

Engineering Sciences

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**WIND ENGINEERING STUDY OF
DENVER CENTER FOR THE PERFORMING ARTS**

by

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December, 1975

CER74-75JBW-JEC48



U18401 0074239

ABSTRACT

A study of the proposed building complex called the Denver Center for the Performing Arts was undertaken with the following objectives as a goal: (1) to assess the effects of wind forces on structural requirements, (2) to measure the impact on air quality of a parking garage and underground street, and (3) to ascertain the wind velocity and gustiness in the enclosed walkways (galleries) and relate these to pedestrian comfort. Data was obtained for each of these objectives by measurements on a 1:192 scale model placed in a meteorological wind tunnel.

The maximum pressure difference determined was 75.5 psf existing between taps 62, (63) for a wind direction of 247 degrees. The majority of the pressures were 50 psf or less as shown in Table X where the pressure is obtained by multiplying the coefficients by the reference pressure of 34 psf (section 3.4).

The data relating to air quality (Tables IV, V and VI) were compared to existing Air Quality Standards as published by the Environmental Protection Agency (Table VIII). These data are applicable to the most commonly observed wind speeds of 1-5 mph. Winds from the SW, W, and NW produce the largest street-level concentrations of automobile exhaust in the galleria. If, when averaged over an eight-hour period, more than 10 cars idle continuously the exhaust concentration for these wind directions can exceed the EPA Standard.

Measurements for mean wind velocities and gustiness were made at 17 street-level locations in the galleria areas. The maximum mean velocity encountered for the ambient reference wind speed of 37 mph was 20 mph. One of the larger equivalent steady wind speeds (introduced to

relate gustiness to human comfort) was 14.01 mph. Both of these values, which are expected to be exceeded only 0.5 percent of the time, are not excessive in terms of pedestrian comfort.

Acknowledgments

The study could not have been successfully completed without the efforts of the following people. Particular credit is given to Mr. Herbert Brauer whose efforts were instrumental in helping direct the project and assisting in data acquisition. Mr. James Garrison made motion pictures of the flow visualization. Mr. Max Pedigo assisted in pressure data acquisition. Mr. James Maxton was responsible for the concentration measurements.

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LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
A	Constant
B	Constant
C_p	Pressure coefficient
$C_{p_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_{\infty})_{max}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{mean}}$	Mean pressure coefficient, $\frac{(p-p_{\infty})_{mean}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_{\infty})_{min}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{rms}}$	Root-mean-square pressure coefficient, $\frac{\left[(p-p_{\infty}) - (p-p_{\infty})_{mean} \right]_{rms}}{\frac{1}{2} \rho U_{\infty}^2}$
D	Characteristic dimension (building height, width, etc.)
E	Mean voltage
E_{rms}	Root-mean-square of fluctuating voltage
m, p	Subscripts for model and prototype, respectively
$()_{max}$	Maximum value during data record
$()_{min}$	Minimum value during data record
n	Exponent of power-law wind-speed profile
p	Instantaneous pressure at a pressure tap on the structure

<u>Symbol</u>	<u>Definition</u>
P_{∞}	Static pressure in the wind tunnel above the model
$\bar{U}$	Local mean longitudinal component of velocity
U_{∞}, U_{inf}	Reference mean velocity outside the boundary layer--one-hour average
$\frac{UD}{\nu}$	Reynolds number, one-hour mean gradient wind speed
U_{ref}	Reference velocity
U_{rms}	Root-mean square of fluctuating velocity
U_{30}	Mean wind speed at 30 ft--one-minute average
x,y	Longitudinal and vertical components, respectively
δ	Height of boundary layer
Δ_p	$(p-p_{\infty})$
ν	Kinematic viscosity of approach flow
$\bar{\rho}$	Mean density of approach flow

1. Introduction

1.1 General

The use of semienclosed areas for pedestrian right of way in building complexes has increased the need to consider environmental factors such as high winds, gustiness and air quality in the architectural design of these areas in addition to the structural questions of strength of materials, supporting members and cladding. The immediate environment affecting the proposed complex is controlled by local meteorological conditions, the inherent shape of the buildings and the distribution and locations of mobile and stationary combustion sources within and surrounding the site. Thus, the environmental design should consider the quality of air being emitted to the interior areas where public exposure is certain, the distribution of aerodynamic pressure unique to the shape of the building which greatly influences structural cladding and support members as well as pedestrian comfort.

The geometry of building developments is complex and varied-projections, set backs, inset corners, different surface roughnesses, and covered and open plaza areas of varying size and shape. This creates local wind patterns which are extremely complex. The best approach available for obtaining reliable wind-pressure and air-quality data under these circumstances is to study flow around a scale model of the structure placed in a wind tunnel capable of simulating atmospheric motion in the lowest 1200 ft.

The purpose of the present study is to consider the above mentioned factors in the structural and environmental design of the Denver Center for the Performing Arts (DCPA) to be located in Denver,

Colorado. The uniqueness of the proposed complex lies in the use of glass-covered streets--galleries--as pedestrian walkways throughout the building area. Also a large parking garage, a potential source of air pollutants, is to be built to accommodate visitors to the center.

The pressure data, concentration measurements, flow visualization and velocity profiles will aid in filling the knowledge void for selection of proper glass and supportive structure, problem areas of high exhaust emissions from the garage, and high wind speed or gustiness prevailing in the gallery areas. A photograph of the model and a site location map are shown in Figures 1 and 2, respectively.

1.2 Simulation of Flow

Comparisons between model and prototype of the effects of atmospheric winds and sources of air pollution on aerodynamic loading and air quality, respectively, requires that the air flow conditions in the model testing are similar to those found in the prototype flow. The requirements for similarity are discussed in detail in (1, 2, 3, 4). For the case of atmospheric flow with no thermal stratification, dynamic similarity is realized if the following criteria are satisfied:

- (1) Geometrical similarity
- (2) Reynolds-number ($\frac{UD}{\nu}$) similarity
- (3) Boundary-condition similarity.

Geometrical similarity requires that all the components of the structure be scaled in the same proportion as components of the proposed building. The actual maximum scale possible is limited by width of the wind-tunnel test section. The meteorological wind tunnel has a cross section of 6 ft x 6 ft. A scale of 1:200 is appropriate for the space requirement. A scale of 1:192 was, however, found to

be more convenient for model construction as all the floor-plan drawings for the building were made to this scale.

Reynolds-number similarity requires that the quantity UD/ν be similar for model and prototype. As ν , the kinematic viscosity of air, is identical for both cases, Reynolds numbers cannot be made equal without resorting to unreasonably high wind velocities in the model testing. This is because the wind velocity in the wind tunnel would have to be the model scale factor times the prototype wind velocity to compensate for the differences in characteristic length D . However, for sufficiently high Reynolds number ($>10^5$) a pressure coefficient on the structure is assumed to be essentially constant with Reynolds number. Typical values of Reynolds numbers encountered are 10^8 for the full scale and 10^6 for the wind-tunnel model. Thus, acceptable flow similarity is achieved without precise Reynolds number equality, if this critical lower limit of Reynolds number is exceeded. This parallels the behavior of the drag coefficient for a sharp-edged body which also becomes invariant with Reynolds numbers equal to or greater than about 3×10^3 (5). Boundary-condition similarity requires that the shape of the approach mean-velocity vertical profile at the building site be similar in the model and prototype. Because of the long test section and the use of appropriate upstream roughness elements it was possible to create mean velocity profiles which have characteristics typical of the appropriate urban atmosphere. The topography surrounding the proposed complex was also modeled and placed within the meteorological wind tunnel.

1.3 The Denver Center for the Performing Arts: Research Program

The Denver Center for the Performing Arts is a unique complex of buildings joined by glass covered streets--gallerias--and is to be located in the vicinity of 13th and Curtis Streets in the city of Denver, Colorado as shown in Figure 2. The objectives of the present modeling effort were essentially twofold:

- (1) To assess environmental factors which may affect pedestrian comfort or health such as air quality and wind velocity or gustiness, and
- (2) To obtain pertinent data relevant to necessary structural requirements arising from wind loading.

To achieve these goals a program consisting of four distinct areas of expertise were employed. As the proposed complex is to be constructed in four distinct phases, separate tests were performed on each configuration. These four fractionations of the final complex are as noted in Figure 3 and will hereafter be referred to as Phase I, II, III or IV. The test parameters and manner of implementation are noted:

- (1) Velocity measurements of the approach flow to satisfy the modeling requirement of similar vertical velocity profiles between model and prototype. Local mean velocity and relative turbulence measurements were taken at selected locations within the complex to assess high winds and gustiness on pedestrians. These latter data were assembled on Phases I and IV.

- (2) Qualitative assessment of wind and pollution behavior throughout the galleria areas, garage and buildings was performed by flow visualization on Phases I, II, III, and IV.
- (3) Air-quality measurements were conducted at selected locations to determine the local effects of the vertically stacked parking garage and ensuing exhaust emissions performed on Phase IV.
- (4) Measurement of mean and fluctuating surface pressures to assist in formulating supportive and structural loading data were made at selected locations.

In view of the preceding discussion and the log of past experience, it can be said with some confidence that the flow over the proposed DCPA Complex in its selected location as portrayed in the model testing yields results that can be used for design purposes on the full-scale structure. The flow conditions investigated in this study for the concentration measurements correspond to one wind speed and as such the air-pollution data are not expected to apply universally under all possible conditions of wind speed and ventilation rates.

2. Experimental Setup and Theoretical Considerations

2.1 Physical Facilities

2.1.1 Wind Tunnel

Model tests were conducted in a meteorological wind tunnel (Figure 4) in the Fluid Dynamics and Diffusion Laboratory at Colorado State University. The tunnel has a 6 ft-square by 88 ft-long test section with an adjustable ceiling to maintain a zero pressure gradient over the model. The wind tunnel uses a 400 HP motor which drives a four blade, variable-pitch propeller capable of achieving velocities over a range of 2 to 120 fps. Simulation of atmospheric flow is achieved using roughness elements constructed from 1 in. cubes which cover the entire wind-tunnel floor upstream of the model testing area. The use of spires at the far upstream end of the test section enabled a thicker boundary layer to be developed. The combination of the spires and roughness elements produced a boundary-layer thickness of approximately 44 in., a velocity profile power-law exponent appropriate for the DCPA construction site and a logarithmic velocity profile with a realistic roughness length.

2.1.2 Model Fabrication

A 1:192 scale model of the DCPA and pertinent elements of the surrounding topography were constructed by Muchow Associates. The model was mounted on a plywood frame and placed on a 67 in. diameter turntable approximately 80 ft from the test-section entrance. The turntable accuracy was ± 1.1 degrees.

One hundred thirty-seven piezometer taps were located at various locations in the galleria roofs and building faces as shown in Figures 5 and 6. At noted locations on the galleria roofs, double

pressure taps were employed in the same vertical plane to allow determination of total dynamic loading at that point.

Thirty-one sampling ports were located as shown in Figures 5 and 7 to allow a quantitative estimate of the effects of air quality of exhaust emissions from automobiles disembarking from the parking garage and traveling down 13th Street. Line sources to release tracer gas are located as shown in Figures 6 and 7.

2.2 Test Parameters and Instrumentation

2.2.1 Velocity

Approach flow mean vertical velocity profiles were taken upstream of the model using a pitot-static tube. Pitot-static tube output was measured through a M.K.S. Baritron electronic pressure meter and recorded after having been averaged by a Hewlett-Packard integrating digital voltmeter model (2401 C).

A common representation of the results of the approach flow mean velocity profiles is in the form of a power law

$$\frac{\bar{U}}{U_{\infty}} = (y/\delta)^n \quad (1)$$

where $\bar{U}$ is the local mean longitudinal component of velocity at a reference height y , U_{∞} is the free-stream or gradient-wind speed at the boundary-layer depth δ , and n is the exponent which is representative of the particular terrain or roughness of the prototype testing site.

Mean velocity and rms of the fluctuating component of velocity were measured within the model using a single channel hot-wire anemometer made by Thermo Systems, Incorporated, (Model 1210). Output was taken from a Hewlett-Packard integrating digital voltmeter.

Calibration of the hot-wire anemometer was performed using a Thermo-Systems Calibrator (Model 1125). The calibration data were matched to a variable-exponent King's Law relationship

$$E^2 = A + BU^n \quad (2)$$

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

$$U_{rms} = \frac{2 E E_{rms}}{B n U^{n-1}} \quad (3)$$

where E_{rms} is the root-mean-square voltage output from the anemometer. All turbulence measurements were divided by both local mean velocity $\bar{U}$ and mean velocity outside the boundary layer U_∞ . Division by $\bar{U}$ 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 results of the hot-wire anemometer studies are presented in a polar plot at each sampling location as relative turbulence intensity referenced to U_∞ , velocity at the edge of the boundary layer, as

$$\frac{U_{rms}}{U_\infty} \quad (4)$$

or referenced to the local mean velocity $\bar{U}$ as

$$\frac{U_{rms}}{\bar{U}} \quad (5)$$

The ratio of local mean velocity $\bar{U}$ to U_∞ , are presented also.

$$\bar{U}/U_{\infty}$$

(6)

2.2.2 Flow Visualization

The release of visible smoke (TiO_2) allows one to qualitatively assess regions of high exhaust emission concentration as well as potential problem areas of pedestrian discomfort where high velocity or gustiness may occur. In addition, flow visualization aids in defining areas of separated flows and reattachment zones where excessive pressures or instabilities may occur. These results were recorded on film for a permanent record of the flow characteristics.

2.2.3 Air Quality

The source of potentially hazardous air quality lies in traffic moving along 13th Street entering or leaving the parking garage and slow moving or idling cars within the parking garage itself. The first point to consider in modeling the air quality is the amount of tracer gas (Kr-85) to release into the model to effectively simulate and scale the volume emitted from a reasonable number of idling cars. This must be accomplished without creating pressure gradients (which would not otherwise be present in the semienclosed structure) by releasing at too high a rate for the model. By assuming that a car exhausts $40 \text{ ft}^3/\text{min}$ (6) and using a condition where 300 cars are running within the garage (as may occur after a performance with a large crowd attempting to leave the center), the rate of release of Kr-85 into the model is $20 \text{ cc/min/floor level}$. This was accomplished using the line sources (2 per floor) placed within the model as earlier stated. The release rate along 13th Street assuming a near capacity 120 cars was found to be approximately 10 cc/min . The scaled withdrawal rate of

the exhaust fans was also simulated using three exhaust plenums located as shown in Figure 6 which has inlet ports on each level. The calculated rate was approximately 700 cc/min for each plenum to exhaust the garage levels in the design time of 12 minutes. In addition three exhaust fans, located as shown in Figure 7, were exhausted at a scaled rate of approximately 500 cc/min each.

The details of the sampling system are shown in Figure 8. Samples were withdrawn from the wind tunnel through 1/8 in. I.D. flexible tubing. The collection of 25 simultaneous samples was achieved by creating negative pressure in the 25 individual collection vessels through water displacement. Each sample was transferred into a cylindrical jacket around a Geiger-Mueller (G.M.) tube by a reverse process. The jacket was filled with water and pressure applied to air in the reservoir to force the sample from a collector bottle to the jacket. The volume of the jacket was exactly equal to that of the sample collected. Two jacketed G.M. tubes were used to facilitate transfer and analysis. Each G.M. tube was calibrated against a gas of known concentration. The samples after transfer to G.M. tube jackets were counted by a Nuclear-Chicago ultrascaler.

Air-quality results are presented as ppm of prototype concentration at a particular location at eight different wind directions in the model for Phase IV only.

2.2.4 Surface Pressures

Measurement of dynamic loading (mean and fluctuating pressures) was made at selected locations on the surface of the galleries and

buildings. Plastic tubing connected 68 pressure ports at a time to a 72-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 68 measurement ports was directed in turn by the switch to one of the 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 18 required positions while a potentiometer provided an indication of the switch position on a digital voltmeter. The four pressure switch input taps 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 situ calibration of the transducers and a means of automatically monitoring the tunnel speed using this valve position. In this study there were two such pressure switches utilized.

The pressure transducers used were Statham differential strain gage transducers (Model PM283TC) with a 0.15 psid range. They were selected for stability and linearity in the required working range. The resonant frequency of the transducers was approximately 2000 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 the 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 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 eight-channel System Development, Inc., analog-to-digital conversion unit. The data were processed onto digital tape for later data analysis by computer. Resolution of conversion was ± 0.0016 in pressure coefficient. All eight transducers were recorded simultaneously for 16 seconds at a 250 sample-per-second rate. Past experience (7) revealed that the overall accuracy for a 16 second average are, in pressure coefficient form, 0.03 for mean pressures, 0.1 for peak pressures and 0.01 for rms pressures.

Reduction of the raw data to usable form was performed on the Colorado State University CDC 6400 computer.

The data record taken was analyzed to obtain four separate pressure coefficients. The first was the mean pressure coefficient

$$C_{p_{\text{mean}}} = \frac{(p-p_{\infty})_{\text{mean}}}{\frac{1}{2} \rho U_{\infty}^2} \quad (7)$$

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 fluctuating pressure was characterized by the rms pressure coefficient

$$C_{p_{\text{rms}}} = \frac{[(p-p_{\infty}) - (p-p_{\infty})_{\text{mean}}]_{\text{rms}}}{\frac{1}{2} \rho U_{\infty}^2} \quad (8)$$

in which the numerator is the root-mean-square of the instantaneous pressure different 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:

$$C_{p_{\text{mean}}} = \frac{(p-p_{\infty})_{\text{max}}}{\frac{1}{2} \rho U_{\infty}^2} \quad (9)$$

$$C_{p_{\text{min}}} = \frac{(p-p_{\infty})_{\text{min}}}{\frac{1}{2} \rho U_{\infty}^2} \quad (10)$$

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 $C_{p_{\text{max}}}$ and $C_{p_{\text{min}}}$ by nondimensionalizing with the free-stream dynamic pressure.

3. Discussion of Results

3.1 Velocity Profiles

3.1.1 Approach Flow

The approach-flow velocity profile in the form represented by Equation (1) is given in Figure 9. The boundary-layer thickness δ was approximately 44 in. corresponding to a prototype value of 733 ft. The value realized for n given in Equation (1) was .297 which is an acceptable value for city environments such as Denver.

3.1.2 Mean Velocity and Relative Turbulence Within the Model

The longitudinal components of velocity as given by expressions 4, 5, and 6 (parallel to the mean flow) are listed in Table I and plotted in Figures 10-24 for model locations 1-17 in Phase I and Figures 25-42 for Phase IV, respectively. Measurements were taken at eight different wind directions at a U_{∞} of 54 ft/sec. The measurement locations are shown in Figures 6 and 7 and were taken at a prototype height of 5 ft 10 in. A wind rose for the city of Denver is superimposed on each polar plot to aid in ascertaining the effects of structure and location on pedestrian comfort and relate these to local meteorology.

Table II gives a summary of the maximum levels of turbulence and the wind direction at which they occur for the various locations of Phases I and IV. Scrutinizing these numbers reveals that the highest values of turbulence recorded were 13.5 percent at location 14 with a wind direction of 315 degrees (NW) for Phase I and 15.8 percent at location 5 at 135 degrees (S) wind direction for Phase IV. These values are fractions ratioed to the mean wind-tunnel speed which was approximately 37 mph for this part of the study. Thus by multiplying the fractions by $U_{\infty} = 37$ mph, the U_{rms} values can be calculated and

represent standard deviations from the mean. For example, the two cases just cited correspond to standard deviations from the mean of 4.96 and 5.8 mph, respectively. A similar calculation procedure may be applied to the other columns in Table I, i.e. $\bar{U}/U_{\infty}$, $U_{\text{rms}}/\bar{U}$. Note that these percentages may also be applied to other values of U_{∞} assuming a linear increase in turbulence with increasing U_{∞} . All the maximum values of $U_{\text{rms}}/U_{\infty}$ lie in the 8.5-15.8 percent range.

The values of $U_{\text{rms}}/\bar{U}$ can be viewed as measures of local gustiness but large values must be treated with caution. For example, a value of 120 percent was obtained for location 8 of Phase I at a wind direction of 135 degrees. This value arises from the low mean velocity of 2.6 mph which yields a value of 3.1 mph for U_{rms} using a test U_{∞} of 37 mph.

The maximum values of mean velocity found for the 37 mph reference wind speed were 20.6 mph at location 11, (45 degrees) Phase I and 19 mph at location 13, Phase IV. These values occurred at wind directions of 45 degrees and 90 degrees, respectively. Reference to Table XI indicates that these wind speeds are expected to be exceeded only about 0.5 percent of the time.

Some comments are appropriate on the effects of wind on pedestrian comfort that may arise from the values presented in Tables I and II. What follows is a summary of Wind Effects on People from Hunt (8) which is intended to provide the reader a means with which to formulate judgments relative to human comfort levels affected by wind speed only.

Summary of Wind Effects on People from Hunt (8)

Symbol < denotes 'should be less than'.

A. Steady uniform wind

A.1. For comfort and little effect on performance, $\bar{U} < 13$ mph

A.2. For ease of walking $\bar{U} < 29-34$ mph

A.3. For safety of walking $\bar{U} < 45-67$ mph

B. Gusty winds

Estimate equivalent steady wind speed u_s in terms of the average wind speed $\bar{U}$ and turbulence intensity of horizontal fluctuations,

$$U_{rms}/\bar{U}$$

B.1. $u_s = \bar{U}(1 + 3(U_{rms}/\bar{U}))$

B.2. For comfort and little effect on performance $u_s < 13$ mph

B.3. Most performance unaffected $u_s < 20$ mph

B.4. Control of walking $u_s < 34$ mph

B.5. Safety of walking $u_s < 45$ mph

For the steady uniform wind section it is seen that velocities up to the maximum of 20.6 mph encountered in the model testing are not deemed excessive.

For the gusty wind section the value of u_s (an equivalent steady wind speed) is obtained by adding 3x turbulence intensity $U_{rms}/\bar{U}$ given in Tables I and II to the mean velocity at the same location. For example, using location 5, Phase IV, 135 degrees as discussed earlier, the turbulence intensity was 15.8 percent. Three times that value is .474. The value of $\bar{U}$ at that location is obtained from the $\bar{U}/U_{inf}$ column by multiplying .366 times the U_{inf} value of 37 mph yielding 13.54 mph. Adding the two values gives 14.01 mph for u_s which is not excessive according to the given values.

3.2 Flow Visualization

TiO₂ smoke was released within the garage area at two locations on each floor and separately at the end of Curtis and 13th Streets to observe the prevailing flow patterns. The results are recorded on a 2,655-ft film included as part of the final report. A sequential listing of the film contents is given in Table III.

Eight wind directions were photographed for the Phase IV geometry and four wind directions (N, S, E, W) were photographed for each of Phases I, II, and III. The wind speed was the same as for the air quality study 6 ft/sec.

Smoke released from within the garage exhibited a strong tendency to enter the open galleria areas, even when the wind was from directions other than due west (which would force air directly from the garage into the gallerias). This is due to the negative pressures caused by the air moving through the gallerias. There appears to be a tendency for the tracer smoke to be somewhat higher in concentration at the upper levels of the walkways than at walking height. This indicates a greater potential air-quality hazard at the higher elevations.

3.3 Assessment of Air Quality

Air-quality measurements were performed at 31 locations within the model as shown in Figures 6 and 7 at a mean wind speed of 6 ft/sec for Phase IV only. The data are given in Tables IV, V, and VI as ppm of prototype concentration for carbon monoxide, hydrocarbons and oxides of nitrogen. These are calculated values from the model testing converted to ppm prototype numbers using the post '68 exhaust-emission factors in Table VII (9) and assuming a source strength resulting from 200 cars running simultaneously. Table VIII (10) gives the EPA eight-hour air-quality standards.

Of the eight equal incremented wind directions tested, the wind from 225 degrees (SW) to 315 degrees (NW) yielded the highest concentrations. These are the directions that force the exhaust gases directly into the pedestrian areas. Ventilation of the garage by the exhaust-fan system was simulated for all test conditions. No quantitative data are available without the exhaust system operative.

No functional form is known for the relationship between wind speed and concentration of exhaust gases at each location for this unique geometry. Thus, these data are applicable only for low wind speeds for U_{∞} in the range where the velocity in the model is about 1 to 5 mph. Since these winds occur during a significant percentage of time, these concentrations are large enough to cause concern about air quality in the Curtis Street galleria as they exceed the values given in Table VIII. To the concentration values listed herein must be added any existing background concentration in the area arising from other stationary or mobile sources of effluents other than automobiles in the DCPA garage.

3.4 Surface Pressures

As indicated in section 2.2.4, the local mean pressure differential measured with respect to ambient static pressure can be expressed by Equations (7), (8), (9), and (10). Pressure coefficients of this form are the most useful for design purposes. A complete listing of pressure data is given in Table IX and a summary of the larger values of pressure coefficients encountered are given by phase, tap number and wind direction in Table X. The summary was performed for the double pressure taps as these were anticipated to yield the largest values. The given numbers were obtained by adding the values of the peak maxima and minima.

Each coefficient can be converted to the appropriate full-scale local load by multiplying it by the proper reference velocity-pressure. That is, pressure = $C_p \times \frac{1}{2} \bar{\rho} U_{ref}^2$, where $\bar{\rho}$ and U_{ref} must be selected not only according to local meteorological conditions but also in conformity with structural specifications.

One possibility is to select a recurrence interval of 50 years for the fastest-mile wind speed. The wind magnitude for a 50-year return interval for Denver is obtained from the proposed American National Standards Institute standard A58.1 (11). This magnitude for a fastest-mile wind at an elevation of 30 ft is 80 mph. Figure 43 shows the relative frequency for the direction of the fastest-mile-wind at Denver. A gust factor of 1.28 (12) reduces this velocity to a one-hour mean velocity of 63 mph--the hourly mean is a more reliable indicator of average velocity at the 30 ft height. By means of a power-law velocity profile with an exponent of .20 (which corresponds to the appropriate surface roughness in the location where the ANSI code measurements were made), the prototype reference velocity was computed which corresponds to the geostrophic wind velocity at the top of the atmospheric boundary layer. The prototype height of the atmospheric boundary layer was independently computed at approximately 1080 ft (329 meters). The geostrophic wind velocity at this height, using .20 as exponent, is 129.4 mph--which is U_{ref} for design purposes. The geostrophic wind velocity is the prototype analog of U_{∞} used to compute pressure coefficients. At Denver $\bar{\rho}$ (average density corrected for elevation from average sea level density for air, i.e., $\sim 0.82 \times$ the average sea level density) is 0.00191 slugs/ft³. Therefore, the proper reference dynamic pressure $\frac{1}{2} \bar{\rho} U_{ref}^2$ for this case is 34 psf. A larger reference velocity-pressure would result if a longer recurrence interval were used.

3.4.1 Example

To illustrate the use of the pressure coefficients to compute peak pressure fluctuations, an example calculation to determine the maximum local load (based on a reference velocity-pressure of 34 psf) at the prototype position of pressure taps, 84, (85) for a wind direction of 225 degrees with Phase IV configuration is presented. These peak fluctuations correspond in duration to a prototype duration of 4-5 seconds.

Referring to Table 2, the value for $C_{p_{\max}}$ at tap 85 which faces into the wind is .298. The value for $C_{p_{\min}}$ at tap 84 located on lee side of the vertical surface is -.972.

The net local pressure load is $[.298 - (-.972)] \times 34$ psf, that is, 44 psf, in the direction of the wind.

This method of computing the extreme local load assumes that the maximum pressure at tap 85 will occur at the same time as the minimum pressure at tap 84.

One should note that loads on glass are specified for a loading period of one minute in the manufacturer's catalogs. The 4-5 second peak-pressure duration time, observed by the model may be reduced to an equivalent one-minute period by using a load reduction factor of 0.8, see Shand (13).

3.5 Percentage Frequencies of Wind Direction and Speed

The percentage frequencies of wind direction and speed at a height of 30 ft measured at Stapleton Airport are given in Table XI. These one-minute-average wind speeds may be used to determine the frequency of mean wind speed and gust magnitudes from data given in Tables I and II, pollutant concentration from data given in Tables IV, V and VI and wind pressures from Table IX.

In order to do this, the wind speeds listed in Table XI must be converted to an equivalent reference wind speed U_{∞} . Using $n = 0.297$, $\delta = 1080$ ft and a value of 0.8 for the ratio of one-hour-average wind speed to one-minute-average wind speed, the conversion becomes

$$U_{\infty} = 2.3 U_{30}.$$

REFERENCES

1. Cermak, J.E., V.A. Sandborn, E.J. Plate, G.H. Binder, H. Chuang, R.N. Meroney, and S. Ito, "Simulation of Atmospheric Motion by Wind-Tunnel Flow," CER66JEC-VAS-EJP-GJB-HC-RNM-SI17, FDDL, Colorado State University, 1966.
2. Halitsky, S., "Gas Diffusion Near Buildings," Meteorology and Atomic Energy," U.S.A.E.G., 1968.
3. Davenport, A.G. and N. Isyumov, "The Application of the Boundary Layer Wind Tunnel to the Prediction of Wind Loading," Proceedings of Int. Res. Seminar on Wind Effects on Buildings and Structures, VI, N.R.C., Canada, 1967.
4. Cermak, J.E., "Laboratory Simulation of the Atmospheric Boundary Layer," AIAA J1., Vol. 9, September 1971.
5. Schlichting, H., "Boundary Layer Theory," Sixth Edition, McGraw-Hill Book Company, New York, 1968.
6. Lichty, L., Combustion Engine Processes, McGraw-Hill Book Company, 1967.
7. Peterka, J.A. and J.E. Cermak, Wind Engineering Study of Peachtree Plaza Hotel, Atlanta, CER74-75JAP-JEC6.
8. Hunt, J.C.R., "The Effects of Wind on People; New Criteria Based on Wind Tunnel Experiments," Department of Civil Engineering, Colorado State University, June 1975.
9. Supplement No. 5 for compilation of Air Pollutant Emission Factors, 2nd Edition, U.S. Environmental Protection Agency, Office of Air and Waste Management, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, April 1975.
10. United States Environmental Protection Agency, National Primary and Secondary Ambient Air Quality Standards, Federal Register 36:81-86, 1971.
11. American National Standards Institute, "Building Code Requirements for Minimum Design Loads in Buildings and Other Structures," ANSI A58.1, 1430 Broadway, New York, New York 10018, 1972.

TABLES

TABLE I

Longitudinal Components of Velocity as Given by Expressions (4,5,6)
in Terms of Phase, Tap Location and Wind Direction

Phase I

WIND MEASUREMENT LOCATION		2	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	19.7	6.1	30.8
45	43.3	12.0	27.7
90	31.9	11.4	35.7
135	28.1	10.1	35.9
180	38.7	10.5	27.3
225	45.5	11.7	25.8
270	44.8	11.1	24.8
315	21.5	8.4	38.1

WIND MEASUREMENT LOCATION		3	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	12.1	5.7	47.5
45	31.0	12.2	39.5
90	32.8	8.5	26.0
135	27.0	7.6	28.2
180	25.8	10.2	39.6
225	31.1	10.5	33.8
270	32.1	9.2	28.6
315	28.6	9.0	31.6

WIND MEASUREMENT LOCATION		4	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	20.5	7.3	35.4
45	54.6	10.5	19.3
90	48.0	10.1	21.1
135	28.8	7.7	26.8
180	35.6	11.4	32.2
225	42.0	9.3	22.1
270	37.5	11.2	29.9
315	26.2	6.9	26.5

WIND MEASUREMENT LOCATION		8	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	22.6	4.9	21.7
45	26.7	6.2	23.2
90	14.2	3.7	26.2
135	7.1	8.5	120.0
180	37.8	9.9	26.3
225	20.5	10.8	52.5
270	9.8	5.0	50.6
315	24.6	4.7	19.2

TABLE I (Cont.)

Phase I

WIND MEASUREMENT LOCATION		9	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	26.6	5.8	21.8
45	33.3	9.7	29.0
90	15.5	5.6	38.7
135	3.5	2.1	54.6
180	13.1	8.3	63.2
225	8.7	4.1	46.9
270	7.7	3.2	41.9
315	23.3	7.0	30.0

WIND MEASUREMENT LOCATION		10	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	8.3	3.4	41.0
45	28.7	7.8	27.3
90	15.4	4.9	32.1
135	3.2	1.5	47.9
180	15.2	7.5	49.0
225	14.7	4.2	28.6
270	10.6	3.6	34.0
315	26.2	6.4	24.3

WIND MEASUREMENT LOCATION		11	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	9.1	4.2	46.1
45	56.1	9.9	17.7
90	34.6	8.7	25.2
135	4.4	1.8	42.2
180	28.3	6.3	22.2
225	19.0	4.3	22.7
270	12.7	4.4	34.4
315	41.0	9.5	23.0

WIND MEASUREMENT LOCATION		12	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	33.9	7.1	21.0
45	31.1	12.2	39.4
90	20.1	10.2	50.9
135	2.2	1.4	48.8
180	18.4	6.7	36.2
225	22.0	4.4	19.8
270	17.5	4.6	27.4
315	18.8	5.8	46.9

TABLE I (Cont.)

Phase I

WIND MEASUREMENT LOCATION		13	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	50.9	8.0	15.7
45	60.1	12.8	21.3
90	53.1	12.9	24.3
135	4.0	1.9	47.3
180	10.9	5.3	48.4
225	15.3	4.7	30.5
270	20.6	4.9	23.6
315	26.1	13.4	51.4

WIND MEASUREMENT LOCATION		14	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	22.0	7.4	33.7
45	20.5	8.8	43.0
90	16.7	6.8	40.6
135	2.8	1.4	48.5
180	21.2	10.0	47.4
225	8.4	4.1	49.1
270	20.2	9.0	44.5
315	29.4	13.5	46.1

WIND MEASUREMENT LOCATION		15	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	28.8	10.3	35.8
45	28.7	11.2	38.9
90	11.4	4.2	37.2
135	13.6	7.6	56.0
180	14.1	8.0	56.7
225	9.4	3.4	35.7
270	16.0	8.2	51.1
315	19.0	8.7	45.9

WIND MEASUREMENT LOCATION		16	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	17.3	8.8	50.7
45	17.1	8.3	48.6
90	22.6	9.2	40.9
135	16.2	6.1	37.8
180	21.2	9.9	46.7
225	0.0	0.0	0.0
270	16.2	8.2	50.5
315	15.2	7.4	48.7

TABLE I (Cont.)

Phase I

WIND MEASUREMENT LOCATION		17	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	18.2	10.1	55.4
45	9.5	4.1	43.0
90	31.4	8.6	27.5
135	20.7	7.2	35.0
180	29.5	11.1	37.6
225	0.0	0.0	0.0
270	22.8	9.0	39.4
315	11.4	2.1	18.6

WIND MEASUREMENT LOCATION		18	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	0.0	0.0	0.0
45	0.0	0.0	0.0
90	0.0	0.0	0.0
135	0.0	0.0	0.0
180	0.0	0.0	0.0
225	36.0	8.5	23.7
270	0.0	0.0	0.0
315	0.0	0.0	0.0

WIND MEASUREMENT LOCATION		19	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	0.0	0.0	0.0
45	0.0	0.0	0.0
90	0.0	0.0	0.0
135	0.0	0.0	0.0
180	0.0	0.0	0.0
225	32.3	9.9	30.7
270	0.0	0.0	0.0
315	0.0	0.0	0.0

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION		1	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	6.7	2.9	43.3
45	18.2	8.7	47.7
90	9.0	4.3	48.1
135	16.9	7.2	42.7
180	18.8	8.0	42.8
225	40.4	9.2	22.4
270	23.8	7.0	29.6
315	11.0	4.8	43.2
WIND MEASUREMENT LOCATION		2	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	8.0	2.5	31.1
45	11.7	7.0	59.5
90	12.0	5.0	41.9
135	21.6	9.8	45.2
180	20.1	7.3	36.2
225	43.8	8.4	19.3
270	28.2	8.5	30.0
315	26.4	7.0	26.4
WIND MEASUREMENT LOCATION		3	
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	14.4	7.5	52.3
45	10.1	4.6	45.4
90	8.9	3.7	41.7
135	37.2	8.7	23.3
180	28.4	9.0	31.5
225	17.4	6.2	35.6
270	19.7	4.5	22.6
315	32.2	8.8	27.3

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION 4

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	36.6	6.9	18.8
45	22.1	6.1	27.5
90	12.0	3.7	30.4
135	23.9	7.3	30.6
180	40.9	9.7	23.8
225	22.7	6.4	28.2
270	37.3	8.9	24.0
315	26.0	6.5	24.9

WIND MEASUREMENT LOCATION 5

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	19.6	6.0	30.6
45	27.6	6.9	25.1
90	11.3	5.9	51.7
135	36.6	15.8	43.1
180	43.3	8.7	20.1
225	29.7	6.8	22.8
270	11.7	4.9	41.6
315	19.3	5.3	27.4

WIND MEASUREMENT LOCATION 6

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	6.1	2.4	40.0
45	26.1	5.3	20.3
90	18.5	3.6	19.4
135	30.8	12.1	39.2
180	13.1	4.5	33.9
225	20.9	9.6	45.2
270	37.5	10.0	26.8
315	34.1	11.5	33.7

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION 7

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	8.2	3.5	42.9
45	13.6	5.0	36.4
90	15.4	3.9	25.2
135	25.2	5.8	23.0
180	14.2	5.5	38.7
225	20.6	7.8	37.7
270	30.5	11.1	35.5
315	19.6	8.0	40.7

WIND MEASUREMENT LOCATION 8

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	29.4	6.1	20.6
45	24.7	5.5	22.2
90	13.2	4.3	32.5
135	31.4	11.8	37.5
180	24.5	10.2	41.3
225	16.1	6.9	43.2
270	10.1	3.9	38.5
315	22.3	4.3	19.2

WIND MEASUREMENT LOCATION 9

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	33.2	7.2	21.7
45	27.2	9.0	32.9
90	7.2	3.1	43.3
135	9.2	4.4	47.5
180	33.2	10.1	30.5
225	9.8	5.3	54.5
270	11.8	4.1	34.4
315	26.8	7.1	26.7

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION 10

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	32.2	6.9	21.5
45	28.1	8.1	28.9
90	20.6	7.0	34.2
135	14.9	6.5	43.5
180	26.1	8.5	32.6
225	16.1	4.4	27.6
270	8.9	2.8	31.6
315	26.5	7.0	26.5

WIND MEASUREMENT LOCATION 11

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	49.5	7.9	16.0
45	51.7	11.8	22.7
90	36.3	9.7	26.8
135	15.6	4.2	26.9
180	36.9	6.4	17.4
225	25.3	5.2	20.4
270	8.4	2.1	25.4
315	42.0	9.9	23.6

WIND MEASUREMENT LOCATION 12

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	18.4	7.0	38.3
45	25.3	12.4	48.9
90	23.9	11.9	49.9
135	13.5	5.0	36.6
180	29.6	8.5	28.9
225	21.8	4.4	20.0
270	9.2	2.9	31.5
315	16.8	8.0	47.7

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION 13

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	27.3	9.1	33.1
45	51.5	14.3	27.8
90	51.4	13.2	25.4
135	6.4	2.5	39.1
180	21.6	7.4	34.3
225	21.0	6.0	28.7
270	15.7	4.7	29.7
315	25.7	13.4	51.9

WIND MEASUREMENT LOCATION 14

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	16.1	7.4	46.2
45	17.2	7.8	45.5
90	11.5	6.6	57.1
135	15.8	7.0	43.9
180	16.2	8.9	54.7
225	12.0	6.3	52.5
270	13.2	6.7	51.1
315	30.2	13.8	45.6

WIND MEASUREMENT LOCATION 15

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	18.9	7.7	40.5
45	25.8	9.3	36.0
90	8.1	4.4	54.5
135	21.1	11.0	52.1
180	12.2	7.3	60.0
225	14.3	7.6	53.2
270	12.6	6.6	52.2
315	17.1	7.5	43.9

TABLE I (Cont.)

Phase IV

WIND MEASUREMENT LOCATION 16

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	8.1	3.4	42.3
45	29.1	10.1	34.7
90	17.3	8.4	48.5
135	15.2	6.9	45.6
180	9.1	4.4	48.1
225	28.0	6.0	21.3
270	21.7	4.7	21.5
315	14.0	3.2	23.0

WIND MEASUREMENT LOCATION 17

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0	11.1	3.5	31.3
45	18.0	4.0	22.1
90	21.5	2.5	11.8
135	37.0	3.6	9.7
180	7.9	3.3	41.8
225	30.4	7.6	24.9
270	31.3	7.9	25.4
315	32.7	12.1	36.9

TABLE II

Summary of Maximum Turbulence Levels, U_{rms}/U_{∞} ,
and Wind Direction for Phases I, IV

Location	Phase I	Phase IV
1		225°/ 9.2%
2	45°/12 %	135°/ 9.8%
3	45°/12.2%	180°/ 9.0%
4	180°/11.4%	180°/9.17%
5		135°/15.8%
6		135°/12.1%
7		270°/11.1%
8	225°/10.0%	135°/11.8%
9	45°/ 9.7%	180°/10.1%
10	45°/ 7.8%	180°/ 8.5%
11	45°/ 9.9%	45°/11.8%
12	45°/12.2%	45°/12.4%
13	315°/13.4%	45°/14.3%
14	315°/13.5%	315°/13.8%
15	45°/11.2%	135°/11.0%
16	180°/ 9.9%	45°/10.1%
17	180°/11.1%	315°/12.1%
18*	225°/ 8.5%	
19*	225°/ 9.9%	

*only wind direction measured

TABLE III

Sequential Listing of Flow Visualization Film Contents

Scene No.	Wind Vel.	Phase	Location of Source for Smoke Release
1	S-6	IV	Garage
2	N-6	"	N end Curtis Street
3	E-6	"	Garage
4	E-6	"	E end 13th Street
5	E-6	"	N end Curtis Street
6	E-6	"	S end Curtis Street
7	NE-6	"	Garage
8	NE-6	"	N end Curtis Street
9	NE-6	"	E end 13th Street
10	N-6	"	Garage
11	N-6	"	N end Curtis Street
12	N-6	"	E end 13th Street
13	N-6	"	W end 13th Street
14	NW-6	"	Garage
15	NW-6	"	N end Curtis Street
16	NW-6	"	W end 13th Street
17	W-6	"	Garage
18	W-6	"	W end 13th Street
19	SW-6	"	Garage
20	SW-6	"	W end 13th Street
21	NW-6	"	S end Curtis Street
22	SE-6	"	Garage
23	SE-6	"	S end Curtis Street
24	SE-6	"	E end 13th Street
25	S-6	I	Garage
26	S-6	"	S end Curtis Street
27	S-6	"	W end 13th Street
28	SE-6	"	Garage
29	SE-6	"	S end Curtis Street
30	SE-6	"	E end 13th Street
31	E-6	"	Garage
32	E-6	"	S end Curtis Street
33	E-6	"	E end 13th Street
34	E-6	"	N end Curtis Street

TABLE III (Cont.)

Scene No.	Wind Vel.	Phase	Location of Source for Smoke Release
35	N-6	I	Garage
36	N-6	"	S end Curtis Street
37	N-6	"	N end Curtis Street
38	W-6	"	Garage
39	W-6	"	W end 13th Street
40	W-6	"	N end Curtis Street
41	W-6	II	Garage
42	W-6	"	N end Curtis Street
43	W-6	"	W end 13th Street
44	W-6	"	S end Curtis Street
45	S-6	"	Garage
46	S-6	"	S end Curtis Street
47	S-6	"	W end 13th Street
48	E-6	"	Garage
49	E-6	"	S end Curtis Street
50	E-6	"	E end 13th Street
51	E-6	"	N end Curtis Street
52	N-6	"	Garage
53	N-6	"	N end Curtis Street
54	W-6	"	Garage
55	N-6	"	N end Curtis Street
56	N-6	"	S end Curtis Street
57	N-6	"	W end 13th Street
58	W-6	III	Garage
59	W-6	"	W end 13th Street
60	S-6	"	Garage
61	S-6	"	S end Curtis Street
62	S-6	"	W end 13th Street
63	E-6	"	Garage
64	E-6	"	S end Curtis Street
65	6	"	N end Curtis Street
66	N-6	"	Garage
67	N-6	"	N end Curtis Street
68	E-6	"	W end 13th Street

TABLE IV

Prototype Concentration Values
in ppm for Carbon Monoxide
Using Equation (9A) of the Appendix

Port No.	N	NE	E	SE	S	SW	W	NW
1	1.846	1.56	.253	0	1.44	4.47	65.27	65.27
2	--	--	--	--	4.09	4.60	301.77	120.37
3	7.235	1.442	3.415	.910	4.073	2.631	41.31	56.03
4	--	--	--	--	5.110	2.783	22.03	49.183
5	0	1.973	1.846	1.062	1.720	3.289	93.281	116.17
6	--	--	--	--	.657	3.79	4.45	63.30
7*	--	--	--	--	3.289	30.38	13.28	5.79
8*	--	--	--	--	0	17.60	115.44	3.94
9*	--	--	--	--	1.315	4.35	1.18	0
10*	2.96	2.30	2.96	2.977	2.125	1.315	311.46	30.25
11*	.910	2.631	1.06	2.22	8.29	36.30	158.27	--
12*	.986	2.631	.328	1.97	5.92	35.67	788.19	0
13	1.442	1.97	1.56	2.22	0	1.189	75.11	51.30
14	2.12	3.61	2.47	2.30	4.60	2.47	202.75	58.87
15	.784	0	.784	1.56	0	2.37	93.00	5.13
16	2.631	1.46	2.96	.657	3.79	2.30	188.78	53.61
17	.531	2.50	.910	.910	5.00	2.30	76.43	19.48
18	2.78	2.30	.986	1.46	2.12	1.97	50.80	18.92
19	2.88	2.75	.657	1.84	3.54	4.19	186.81	6.83
20	4.45	.328	2.631	0	.657	0	8.70	8.22
21	2.75	3.41	.910	1.56	3.94	.784	1.84	1.84
22	4.45	.809	1.64	.506	2.631	0	.506	6.42
23	3.94	3.69	1.44	2.09	2.631	.531	7.48	19.48
24	2.96	5.11	1.31	1.31	2.96	1.82	2.47	73.52
31	55.25	1.84	.657	2.22	2.50	2.631	3.41	0
32	1.84	2.75	1.97	1.06	.784	9.74	3.16	142.08
33	3.13	.506	0	0	1.64	1.82	8.22	84.04
34+	4.73	0	1.84	1.18	2.22	.784	42.88	110.38
36+	71.70	0	2.30	3.44	4.09	79.44	69.06	58.87
38+	2.12	.151	.809	1.31	.404	6.04	29.34	22.89
40	5.41	1.82	1.82	1.16	.506	1.97	3.79	31.90

*Taps in the immediate vicinity of the line source--questioned validity.

*Measurements made with exhaust fan capacities of 135,000 cfm for 13th Street.

Source strength--300 cars idling.

Test conducted at an ambient wind speed of 6 mph.

TABLE V

Prototype Concentration Values
in ppm for Hydrocarbons
Using Equation (9B) of the Appendix

Port No.	N	NE	E	SE	S	SW	W	NW
1	.202	.172	.0278	0	.158	.492	7.17	7.17
2	--	--	--	--	.450	.505	33.15	13.22
3	.795	.158	.375	.100	.447	.289	4.53	6.15
4	--	--	--	--	.561	.305	2.42	5.40
5	0	.216	.202	.116	.189	.361	10.24	12.76
6	--	--	--	--	.072	.417	.489	6.95
7*	--	--	--	--	.361	3.33	1.45	.636
8*	--	--	--	--	0	1.93	12.68	.433
9*	--	--	--	--	.144	.478	.130	0
10*	.325	.252	.325	1.93	.233	.144	34.22	3.32
11*	.100	.289	.116	.244	.911	3.98	17.39	--
12*	.108	.289	.0361	.216	.650	3.91	86.60	0
13	.158	.216	.172	.244	0	.130	8.25	5.63
14	.233	.397	.272	.252	.505	.272	22.27	6.46
15	.0861	0	.0861	.172	0	.261	10.21	.564
16	.289	.161	.325	.0722	.417	.252	20.74	5.89
17	.0583	.275	.100	.100	.550	.0583	8.39	2.14
18	.305	.252	.108	.161	.233	.216	5.58	2.07
19	.316	.303	.0722	.202	.389	.461	20.52	.750
20	.489	.0361	.289	0	.0722	0	.956	.903
21	.303	.375	.100	.172	.433	.0861	.202	.202
22	.489	.0889	.180	.0556	.289	0	.556	.289
23	.433	.405	.158	.230	.289	.0583	.822	2.14
24	.325	.561	.144	.144	.325	.200	.272	8.07
31	6.07	.202	.0722	.244	.275	.289	.375	0
32	.202	.303	.216	.116	.0861	1.07	.347	.156
33	.344	.0556	0	0	.180	.200	.903	9.23
34+	.519	0	.202	.130	.244	.0861	4.71	12.12
36+	7.87	0	.252	.378	.450	8.72	7.58	6.46
38+	.233	.0166	.0889	.144	.0444	.664	3.22	2.51
40	.594	.200	.200	.127	.0556	.216	.417	3.50

*Taps in the immediate vicinity of the line source--questioned validity.

*Measurements made with exhaust fan capacities of 135,000 cfm for
13th Street.

Source strength--300 cars idling.

Test conducted at an ambient wind speed of 6 mph.

TABLE VI

Prototype Concentration Values
in ppm for Nitrogen Dioxide Using
Equation (9C) of the Appendix

Port No.	N	NE	E	SE	S	SW	W	NW
1	.0069	.0058	.00094	0	.0054	.0167	.244	.244
2	--	--	--	--	.0153	.0172	1.13	.451
3	.0271	.0054	.0128	.0034	.0152	.0098	.154	.210
4	--	--	--	--	.0191	.0104	.0826	.184
5	0	.0074	.0069	.0039	.0064	.0123	.349	.435
6	--	--	--	--	.0024	.0412	.0016	.237
7*	--	--	--	--	.0012	.1139	.0498	.0217
8*	--	--	--	--	0	.0660	.433	.0148
9*	--	--	--	--	.0049	.0163	.0044	0
10*	.0111	.0086	.0111	.0660	.0079	.0049	1.168	.113
11*	.0034	.0098	.0039	.0083	.0311	.136	.593	--
12*	.0037	.0098	.0012	.0074	.0222	.133	2.95	0
13	.0054	.0074	.0058	.0083	0	.0083	.281	.192
14	.0079	.0135	.0093	.0086	.0172	.0093	.760	.220
15	.0029	0	.0029	.0058	0	.0089	.3488	.0192
16	.0098	.0055	.0111	.0024	.0142	.0086	.708	.201
17	.0019	.0093	.0034	.0034	.0187	.0019	.286	.073
18	.0104	.0086	.0037	.0055	.0079	.0074	.190	.0709
19	.0108	.0103	.0024	.0069	.0132	.0157	.700	.0256
20	.0167	.0012	.0098	0	.0024	0	.0326	.0308
21	.0103	.0128	.0034	.0058	.0148	.0029	.0069	.0069
22	.0167	.0030	.0061	.0018	.0098	0	.0018	.0241
23	.0148	.0138	.0054	.0078	.0098	.0019	.0280	.0730
24	.0111	.0191	.0049	.0049	.0111	.0068	.0093	.275
31	.201	.0069	.0024	.0083	.0093	.0098	.0128	0
32	.0069	.0103	.0074	.0039	.0029	.0365	.0118	.532
33	.0117	.0018	0	0	.0061	.0068	.0308	.315
34+	.0177	0	.0069	.0044	.0083	.0029	.160	.414
36+	.268	0	.0086	.0129	.0153	.297	.259	.220
38+	.0079	.00056	.0030	.0049	.0015	.0226	.110	.0858
40	.0203	.0068	.0068	.0044	.0018	.0074	.0142	.1196

*Taps in the immediate vicinity of the line source--questioned validity.

*Measurements made with exhaust fan capacities of 135,000 cfm for
13th Street.

Source strength--300 cars idling.

Test conducted at an ambient wind speed of 6 ft/sec.

TABLE VII (Ref. 9)

Values for Rate of Exhaust Release, in gm/sec-car, High Altitude

<u>Effluent</u>	<u>Pre-'68</u>	<u>Post-'68</u>
Carbon Monoxide	.31	.283
Hydrocarbons	.03	.0167
Oxides of Nitrogen	.00167	.00167

TABLE VIII (Ref. 10)

Eight-Hour Indoor Air-Quality Standards

<u>Effluent</u>	<u>Primary Air-Quality Standard (ppm)</u>
Carbon Monoxide	9
Hydrocarbons	.24
Oxides of Nitrogen	.05

TABLE IX
Pressure Coefficients
Phase I

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 0 TEMPERATURE 86.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 61.78 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.419	.171	.040	-1.041
2	.077	.113	.288	-.818
3	-.335	.146	.187	-1.122
4	.053	.097	.242	-.614
5	-.337	.151	.077	-.778
6	.004	.085	.186	-.431
7	-.042	.067	.077	-.314
8	-.053	.064	.071	-.268
9	-.059	.078	.114	-.283
10	-.005	.056	.090	-.123
11	-.016	.062	.109	-.153
12	.114	.057	.232	.012
13	-.001	.065	.153	-.168
14	-.060	.077	.112	-.298
15	-.044	.091	.130	-.386
16	-.068	.120	.162	-.477
17	.003	.058	.115	-.142
18	.051	.060	.154	-.291
19	.006	.062	.133	-.214
20	.011	.052	.094	-.094
21	.051	.049	.142	-.030
22	.006	.051	.093	-.129
23	.015	.048	.088	-.078
24	.004	.051	.107	-.144
25	.004	.049	.121	-.095
117	.002	.051	.095	-.106
118	.013	.048	.102	-.064
119	-.001	.048	.112	-.086
120	.003	.046	.105	-.087
121	.043	.062	.235	-.088
122	.053	.055	.184	-.039
123	-.006	.047	.064	-.090
124	-.008	.048	.064	-.099
125	-.031	.057	.091	-.146
126	-.019	.056	.089	-.115
127	.068	.050	.157	-.006
128	.071	.051	.149	-.011
129	.003	.047	.067	-.087
130	.033	.046	.105	-.042
131	.003	.048	.084	-.070
132	-.004	.050	.081	-.085
133	.008	.049	.095	-.100
134	.005	.051	.098	-.093
135	.003	.049	.089	-.104
136	0.000	.049	.095	-.108
137	.003	.050	.103	-.103

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 22 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 61.22 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.146	.179	.189	-.848
2	-.066	.138	.271	-.789
3	-.438	.199	.043	-1.150
4	-.045	.145	.265	-.708
5	-.478	.109	-.123	-.849
6	.011	.093	.223	-.339
7	-.099	.070	.076	-.275
8	-.135	.090	.062	-.512
9	-.131	.095	.048	-.608
10	.024	.068	.198	-.121
11	-.119	.096	.074	-.380
12	.049	.064	.207	-.069
13	-.086	.073	.066	-.302
14	-.072	.081	.103	-.370
15	-.110	.086	.100	-.365
16	-.188	.121	.139	-.833
17	.001	.078	.221	-.196
18	-.101	.089	.111	-.338
19	-.077	.065	.081	-.290
20	.013	.058	.159	-.094
21	.014	.051	.131	-.064
22	-.104	.064	.067	-.275
23	-.041	.052	.064	-.124
24	-.048	.054	.065	-.164
25	-.055	.051	.033	-.147
117	-.085	.056	.015	-.225
118	-.069	.054	.022	-.207
119	-.093	.057	-.007	-.228
120	-.081	.051	-.009	-.198
121	.077	.080	.312	-.129
122	.075	.064	.245	-.026
123	-.074	.048	.013	-.162
124	-.077	.049	.014	-.182
125	-.072	.059	.051	-.221
126	-.069	.059	.080	-.193
127	.025	.052	.106	-.106
128	.025	.053	.118	-.114
129	-.071	.052	.014	-.172
130	-.009	.050	.083	-.084
131	-.026	.052	.063	-.130
132	-.047	.058	.052	-.181
133	-.016	.048	.078	-.098
134	-.014	.050	.099	-.114
135	-.034	.046	.034	-.116
136	-.044	.047	.029	-.132
137	-.076	.057	.022	-.205

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 45 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 60.84 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.097	.073	.095	-.313
2	-.008	.104	.222	-.306
3	-.192	.111	.166	-.588
4	.043	.095	.249	-.287
5	-.151	.100	.178	-.528
6	.036	.112	.369	-.411
7	-.050	.106	.281	-.291
8	-.190	.098	.136	-.503
9	-.123	.081	.104	-.461
10	.085	.090	.326	-.110
11	-.076	.084	.136	-.308
12	.045	.062	.198	-.087
13	-.109	.068	.054	-.286
14	-0.000	.063	.155	-.204
15	-.110	.092	.104	-.403
16	-.198	.091	.047	-.480
17	.008	.070	.200	-.125
18	-.119	.074	.045	-.338
19	-.088	.056	.033	-.211
20	-.025	.058	.164	-.128
21	-.032	.049	.136	-.109
22	-.125	.057	-.018	-.288
23	-.068	.049	.129	-.186
24	-.061	.051	.470	-.240
25	-.081	.047	-0.000	-.177
117	-.126	.056	-.026	-.230
118	-.112	.052	-.020	-.204
119	-.157	.058	-.053	-.318
120	-.144	.054	-.053	-.278
121	.075	.092	.291	-.136
122	.049	.074	.206	-.106
123	-.120	.054	-.021	-.228
124	-.129	.057	-.024	-.238
125	-.112	.062	-0.000	-.253
126	-.112	.064	.007	-.271
127	-.019	.047	.048	-.097
128	-.019	.048	.046	-.099
129	-.137	.056	-.030	-.249
130	-.040	.058	.067	-.154
131	-.032	.050	.076	-.144
132	-.044	.056	.074	-.158
133	-.021	.053	.091	-.165
134	-0.000	.055	.137	-.130
135	-.041	.051	.071	-.152
136	-.066	.054	.037	-.199
137	-.148	.058	-.018	-.313

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 67 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 60.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.077	.121	.343	-.760
2	-.050	.113	.232	-.709
3	-.264	.171	.138	-.952
4	-.052	.162	.243	-.875
5	-.238	.176	.111	-.820
6	-.066	.170	.355	-.513
7	-.027	.085	.297	-.198
8	-.222	.085	-.011	-.477
9	-.116	.068	.040	-.525
10	.029	.095	.444	-.154
11	-.173	.076	-.004	-.450
12	.011	.060	.160	-.106
13	-.095	.065	.035	-.302
14	-.048	.066	.115	-.279
15	-.181	.076	-.011	-.382
16	-.181	.073	-.020	-.409
17	-.035	.085	.240	-.205
18	-.177	.091	.009	-.438
19	-.106	.055	-.004	-.242
20	-.023	.075	.184	-.177
21	-.022	.050	.071	-.112
22	-.191	.082	-.049	-.460
23	-.069	.051	.037	-.170
24	-.120	.069	-.011	-.405
25	-.101	.050	-.018	-.178
117	-.137	.051	-.047	-.239
118	-.135	.052	-.036	-.239
119	-.121	.052	-.008	-.205
120	-.121	.051	-.029	-.215
121	.001	.068	.212	-.154
122	.026	.063	.181	-.101
123	-.183	.065	-.065	-.335
124	-.111	.059	.022	-.251
125	-.077	.059	.030	-.222
126	-.079	.061	.049	-.301
127	-.017	.048	.063	-.092
128	-.018	.049	.065	-.101
129	-.119	.063	.006	-.342
130	-.025	.052	.065	-.116
131	-.057	.055	.039	-.183
132	-.086	.065	.077	-.305
133	-.046	.060	.077	-.180
134	-.069	.073	.102	-.276
135	-.078	.063	.047	-.315
136	-.119	.066	.032	-.343
137	-.124	.056	-.015	-.284

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 90 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.053	.087	.249	-.309
2	-.091	.069	.146	-.340
3	-.341	.131	-.100	-1.193
4	-.004	.089	.312	-.312
5	-.280	.121	-.058	-.673
6	.101	.114	.365	-.267
7	-.053	.068	.113	-.217
8	-.305	.076	-.160	-.489
9	-.154	.064	-.007	-.296
10	.022	.087	.287	-.164
11	-.343	.108	-.131	-.707
12	.004	.065	.134	-.129
13	-.147	.059	-.043	-.268
14	-.042	.065	.194	-.187
15	-.272	.079	-.124	-.491
16	-.154	.064	-.030	-.365
17	.042	.115	.416	-.274
18	-.331	.121	-.075	-.781
19	-.132	.066	-.021	-.380
20	.034	.070	.252	-.139
21	-.043	.055	.060	-.150
22	-.253	.080	-.110	-.479
23	-.051	.055	.082	-.145
24	-.152	.064	-.019	-.370
25	-.097	.053	.063	-.196
117	-.091	.051	-.003	-.187
118	-.092	.051	-.004	-.204
119	-.086	.051	-.013	-.226
120	-.086	.052	-.011	-.219
121	.011	.061	.202	-.159
122	.011	.060	.150	-.119
123	-.047	.053	.048	-.167
124	-.044	.049	.053	-.127
125	-.086	.058	.064	-.214
126	-.084	.059	.046	-.220
127	-.039	.049	.076	-.120
128	-.041	.051	.242	-.253
129	-.096	.065	.051	-.226
130	-.044	.054	.063	-.160
131	-.044	.052	.073	-.181
132	-.054	.056	.059	-.162
133	-.045	.054	.093	-.156
134	-.047	.059	.145	-.174
135	-.045	.050	.041	-.133
136	-.050	.050	.044	-.138
137	-.092	.051	-.010	-.183

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 112 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.66 IN HG VELOCITY 60.47 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.082	.090	.362	-.143
2	-.051	.053	.217	-.139
3	-.177	.076	-.027	-.370
4	-.056	.056	.047	-.273
5	-.120	.071	.037	-.317
6	-.003	.077	.271	-.132
7	.014	.069	.224	-.152
8	-.207	.081	-.063	-.544
9	-.079	.056	.017	-.205
10	.058	.089	.358	-.162
11	-.243	.099	-.046	-.605
12	-.014	.050	.095	-.101
13	-.110	.064	.010	-.299
14	-.018	.080	.280	-.168
15	-.207	.083	-.060	-.418
16	-.105	.067	.030	-.329
17	.017	.098	.314	-.230
18	-.207	.106	-.007	-.510
19	-.099	.063	.011	-.262
20	.038	.094	.331	-.112
21	-.050	.051	.044	-.148
22	-.231	.104	-.056	-.566
23	-.038	.057	.086	-.154
24	-.126	.072	.002	-.366
25	-.017	.073	.301	-.132
117	-.082	.052	.022	-.179
118	-.082	.051	.010	-.175
119	-.087	.052	.002	-.191
120	-.082	.052	.014	-.180
121	-.010	.054	.097	-.111
122	.007	.053	.142	-.080
123	.015	.057	.125	-.077
124	-0.000	.055	.144	-.094
125	-.046	.047	.027	-.125
126	-.045	.048	.034	-.123
127	-.046	.048	.031	-.120
128	-.049	.048	.033	-.127
129	-.032	.050	.060	-.136
130	-.027	.049	.058	-.118
131	-0.000	.055	.132	-.108
132	-.001	.056	.142	-.158
133	.018	.065	.245	-.096
134	.030	.066	.228	-.104
135	-.001	.059	.138	-.162
136	-.003	.056	.101	-.116
137	-.082	.050	.001	-.183

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 135 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.66 IN HG VELOCITY 60.18 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.046	.085	.295	-.134
2	-.026	.053	.155	-.109
3	-.078	.058	.033	-.197
4	-.032	.050	.057	-.170
5	-.033	.060	.084	-.174
6	-.028	.052	.089	-.136
7	.050	.067	.222	-.079
8	-.170	.089	.144	-.406
9	-.047	.056	.079	-.195
10	-.034	.107	.173	-.342
11	-.234	.095	-.071	-.542
12	-.010	.050	.108	-.092
13	-.146	.072	-.018	-.362
14	-.049	.064	.118	-.179
15	-.185	.073	-.017	-.377
16	-.120	.067	.001	-.326
17	.051	.076	.351	-.111
18	-.240	.116	-.045	-.675
19	-.111	.070	-.003	-.431
20	.083	.101	.400	-.170
21	-.058	.068	.051	-.435
22	-.241	.104	-.032	-.745
23	-.032	.063	.140	-.219
24	-.144	.075	-.017	-.391
25	.055	.087	.316	-.127
117	-.082	.053	.015	-.195
118	-.079	.053	.016	-.190
119	-.096	.054	-.005	-.232
120	-.091	.053	.030	-.188
121	-.025	.062	.093	-.177
122	.016	.062	.155	-.116
123	.085	.068	.265	-.032
124	.070	.061	.259	-.026
125	-.040	.048	.038	-.110
126	-.037	.048	.049	-.106
127	-.046	.050	.050	-.124
128	-.045	.050	.051	-.125
129	-.023	.052	.074	-.151
130	-.005	.052	.087	-.102
131	.011	.059	.143	-.104
132	.007	.060	.150	-.106
133	.125	.080	.353	-.011
134	.144	.082	.389	-.019
135	.059	.068	.286	-.106
136	.048	.062	.239	-.112
137	-.098	.056	.029	-.234

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 157 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.67 IN HG VELOCITY 60.47 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.009	.054	.123	-.089
2	-.005	.048	.072	-.087
3	-.018	.053	.081	-.151
4	-.004	.049	.072	-.101
5	.008	.054	.140	-.134
6	-.005	.055	.142	-.132
7	.070	.067	.271	-.067
8	-.092	.082	.068	-.286
9	-.005	.054	.101	-.112
10	-.053	.109	.183	-.479
11	-.165	.085	.002	-.398
12	.019	.052	.108	-.062
13	-.091	.066	.039	-.255
14	-.018	.064	.123	-.135
15	-.095	.064	.021	-.243
16	-.048	.053	.047	-.172
17	.023	.060	.172	-.140
18	-.025	.070	.112	-.225
19	-.040	.055	.058	-.158
20	.089	.098	.352	-.245
21	-.109	.122	.161	-.621
22	-.169	.129	.137	-.771
23	-.043	.088	.175	-.304
24	-.132	.086	.154	-.501
25	.053	.085	.298	-.305
117	-.049	.059	.065	-.258
118	-.043	.058	.060	-.167
119	-.034	.068	.109	-.298
120	-.035	.060	.093	-.205
121	-.025	.058	.103	-.162
122	-.009	.057	.104	-.139
123	.171	.086	.433	.016
124	.138	.077	.353	-.009
125	-.013	.049	.080	-.090
126	-.006	.050	.087	-.084
127	-.014	.054	.092	-.114
128	-.008	.054	.101	-.110
129	-.023	.055	.075	-.138
130	.001	.053	.109	-.124
131	.007	.054	.109	-.088
132	-0.000	.057	.133	-.104
133	.106	.085	.373	-.105
134	.083	.079	.322	-.069
135	.190	.095	.453	-.003
136	.153	.083	.358	-.017
137	-.064	.065	.067	-.245

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 180 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.67 IN HG VELOCITY 62.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.022	.052	.129	-.063
2	.002	.051	.103	-.086
3	.012	.052	.121	-.075
4	.001	.050	.100	-.075
5	.015	.054	.116	-.089
6	-.006	.053	.083	-.101
7	0.000	.054	.100	-.103
8	.010	.054	.100	-.088
9	.021	.053	.130	-.080
10	-.077	.070	.061	-.272
11	-.095	.074	.054	-.306
12	.010	.056	.111	-.136
13	-.086	.068	.074	-.299
14	.007	.059	.150	-.099
15	-.019	.051	.059	-.123
16	-.014	.049	.071	-.107
17	.004	.053	.104	-.113
18	.051	.050	.133	-.066
19	-.018	.053	.082	-.142
20	-.189	.123	.082	-.813
21	.055	.105	.321	-.539
22	-.251	.114	.096	-.691
23	.018	.129	.306	-.559
24	-.282	.154	.084	-.827
25	-.085	.125	.204	-.634
117	-.090	.103	.153	-.396
118	-.088	.105	.130	-.489
119	.030	.079	.189	-.417
120	.056	.077	.304	-.104
121	-.019	.059	.101	-.141
122	.027	.060	.178	-.076
123	.234	.103	.642	.049
124	.180	.093	.515	.010
125	.024	.050	.138	-.068
126	.024	.051	.137	-.069
127	.043	.060	.227	-.063
128	.038	.065	.203	-.064
129	.095	.072	.276	-.085
130	.085	.069	.245	-.053
131	-.025	.067	.121	-.176
132	-.002	.064	.135	-.162
133	.032	.077	.336	-.131
134	.049	.070	.225	-.114
135	.053	.080	.306	-.094
136	.020	.067	.220	-.114
137	.005	.089	.185	-.290

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 202 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.60 IN HG VELOCITY 62.20 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.004	.053	.101	-.094
2	-.007	.051	.078	-.081
3	-.053	.063	.062	-.176
4	-.013	.051	.076	-.092
5	.029	.056	.154	-.074
6	-.005	.050	.072	-.089
7	-.014	.056	.107	-.157
8	-.058	.071	.116	-.218
9	.019	.064	.235	-.097
10	-.034	.056	.096	-.179
11	-.040	.060	.101	-.183
12	.001	.055	.111	-.119
13	-.093	.073	.069	-.283
14	-.004	.059	.153	-.140
15	-.051	.066	.074	-.242
16	-.014	.058	.108	-.161
17	-.072	.063	.053	-.254
18	-.029	.071	.116	-.217
19	-.032	.067	.159	-.185
20	-.196	.104	-.018	-.820
21	.116	.079	.408	-.040
22	-.240	.113	-.053	-.679
23	.134	.080	.385	-.196
24	-.201	.144	.163	-.775
25	.005	.093	.216	-.422
117	.088	.101	.261	-.332
118	.103	.103	.351	-.339
119	.086	.062	.266	-.018
120	.175	.077	.458	.038
121	-.084	.064	.086	-.218
122	-.006	.064	.157	-.166
123	.247	.105	.560	.052
124	.232	.095	.569	.054
125	.042	.052	.137	-.060
126	.048	.053	.140	-.054
127	.071	.066	.251	-.088
128	.066	.066	.243	-.073
129	.062	.088	.319	-.116
130	.053	.089	.259	-.168
131	-.073	.068	.064	-.239
132	-.028	.062	.096	-.181
133	-.061	.075	.152	-.237
134	-.021	.079	.292	-.270
135	-.027	.073	.216	-.163
136	-.037	.069	.154	-.201
137	.090	.062	.250	-.047

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 225 TEMPERATURE 86.00 DEGREES F
BAROMETRIC PRESS 24.60 IN HG VELOCITY 61.45 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.026	.053	.066	-.147
2	-.024	.049	.062	-.108
3	-.109	.063	.021	-.258
4	-.030	.051	.070	-.134
5	.030	.066	.249	-.138
6	-.023	.049	.059	-.111
7	-.041	.059	.074	-.175
8	-.151	.070	-.001	-.308
9	.002	.066	.175	-.174
10	-.062	.062	.051	-.257
11	-.125	.063	.014	-.263
12	.029	.063	.141	-.090
13	-.111	.086	.066	-.333
14	-.025	.057	.081	-.283
15	-.180	.076	-.030	-.356
16	-.008	.058	.123	-.126
17	-.135	.061	-.008	-.254
18	-.198	.087	-.026	-.481
19	-.049	.078	.162	-.219
20	-.276	.102	-.127	-.669
21	.045	.097	.307	-.178
22	-.306	.113	-.109	-.730
23	.083	.090	.334	-.102
24	-.150	.110	.248	-.444
25	.022	.070	.220	-.142
117	.206	.093	.453	.051
118	.226	.087	.484	.059
119	.124	.073	.339	-.002
120	.221	.084	.469	.051
121	-.150	.073	.015	-.444
122	.067	.059	.175	-.156
123	.182	.092	.499	-.156
124	.177	.101	.485	-.173
125	.054	.054	.148	-.040
126	.062	.054	.155	-.031
127	.084	.064	.239	-.024
128	.083	.065	.247	-.034
129	-.015	.088	.239	-.287
130	.145	.081	.314	-.089
131	-.037	.064	.156	-.201
132	-.066	.058	.051	-.225
133	-.095	.066	.051	-.270
134	.223	.048	.300	.130
135	.006	.054	.153	-.089
136	-.080	.066	.072	-.229
137	.159	.087	.405	.007

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 247 TEMPERATURE 86.00 DEGREES F
BAROMETRIC PRESS 24.61 IN HG VELOCITY 61.63 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.159	.076	-.035	-.450
2	-.067	.055	.075	-.155
3	-.246	.072	-.116	-.460
4	-.052	.058	.088	-.143
5	-.014	.066	.211	-.166
6	-.020	.063	.152	-.140
7	-.100	.067	.064	-.420
8	-.233	.090	-.060	-.481
9	-.032	.074	.417	-.203
10	-.124	.057	-.008	-.254
11	-.182	.066	-.051	-.399
12	.051	.056	.154	-.298
13	-.077	.091	.198	-.366
14	-.065	.064	.077	-.263
15	-.253	.087	-.085	-.547
16	-.016	.072	.222	-.169
17	-.141	.063	.009	-.277
18	-.306	.102	-.093	-.612
19	-.048	.076	.142	-.246
20	-.303	.081	-.131	-.623
21	-.017	.075	.191	-.222
22	-.365	.118	-.164	-.728
23	-.004	.065	.151	-.157
24	.037	.102	.320	-.269
25	.017	.056	.135	-.102
117	.269	.117	.743	.057
118	.261	.107	.706	.051
119	.209	.100	.544	.017
120	.249	.099	.645	.070
121	-.188	.079	.016	-.408
122	-.129	.067	.030	-.334
123	-.146	.163	.162	-.613
124				
125	.049	.049	.141	-.033
126	.055	.049	.147	-.029
127	.056	.052	.180	-.035
128	.061	.053	.217	-.025
129	.098	.057	.222	-.026
130	.444	.074	.543	.045
131	-.032	.087	.464	-.124
132	-.094	.052	.017	-.184
133	.072	.046	.144	-.009
134	.126	.045	.198	.051
135	-.068	.055	.042	-.212
136	-.045	.062	.119	-.176
137	.197	.091	.539	.007

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 270 TEMPERATURE 87.00 DEGREES F
BAROMETRIC PRESS 24.61 IN HG VELOCITY 61.25 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.346	.139	.317	-.840
2	-.124	.075	.034	-.621
3	-.373	.094	-.071	-.635
4	-.089	.085	.057	-.585
5	-.006	.087	.216	-.179
6	-.042	.068	.108	-.188
7	-.163	.078	.013	-.526
8	-.413	.103	-.195	-.686
9	-.025	.089	.234	-.290
10	-.177	.059	-.057	-.407
11	-.306	.079	-.117	-.569
12	.015	.051	.109	-.066
13	-.010	.065	.177	-.341
14	-.215	.078	-.057	-.436
15	-.437	.106	-.216	-.807
16	-.039	.070	.228	-.191
17	-.152	.064	-.031	-.324
18	-.327	.128	-.094	-.865
19	-.057	.070	.140	-.196
20	-.231	.076	-.071	-.512
21	-.037	.053	.130	-.131
22	-.230	.078	-.090	-.720
23	-.016	.056	.180	-.110
24	.042	.088	.305	-.111
25	.005	.056	.108	-.115
117	.234	.118	.653	-.014
118	.205	.110	.590	-.001
119	.219	.117	.593	.018
120				
121	-.095	.067	.070	-.331
122	-.065	.058	.065	-.201
123	-.293	.098	-.060	-.584
124				
125	.032	.051	.116	-.044
126	.040	.051	.122	-.037
127	.032	.051	.122	-.041
128	.037	.051	.127	-.039
129	-.108	.062	.017	-.273
130	-.076	.068	.100	-.277
131	-.054	.049	.014	-.161
132	-.055	.050	.021	-.147
133	-.045	.052	.089	-.154
134	-.033	.054	.112	-.148
135	-.041	.060	.084	-.200
136	-.028	.067	.166	-.209
137	.202	.111	.573	-.033

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 292 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.61 IN HG VELOCITY 61.42 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.338	.113	-.057	-.897
2	-.104	.064	.043	-.244
3	-.360	.105	-.067	-.701
4	-.062	.068	.084	-.220
5	.093	.127	.478	-.190
6	-.024	.059	.263	-.175
7	-.133	.079	.019	-.490
8	-.312	.098	-.027	-.679
9	-.038	.072	.163	-.255
10	-.127	.062	-.008	-.313
11	-.244	.074	-.073	-.471
12	.011	.050	.091	-.094
13	-.011	.063	.147	-.183
14	-.199	.081	-.052	-.423
15	-.375	.100	-.192	-.775
16	-.035	.076	.181	-.399
17	-.136	.061	-.024	-.317
18	-.302	.119	-.101	-.673
19	-.040	.086	.205	-.203
20	-.131	.068	-.014	-.332
21	-.022	.050	.076	-.110
22	-.190	.067	-.039	-.359
23	-.014	.053	.077	-.108
24	.038	.071	.234	-.116
25	-.023	.053	.099	-.112
117	.134	.097	.586	-.062
118	.105	.080	.348	-.042
119	.194	.109	.611	-.036
120	.169	.084	.464	.007
121	-.088	.060	.035	-.288
122	-.073	.052	.039	-.162
123	-.113	.064	.022	-.272
124	-.112	.066	.043	-.341
125	.017	.049	.096	-.070
126	.023	.048	.102	-.056
127	.011	.048	.098	-.069
128	.018	.047	.094	-.048
129	-.075	.060	.093	-.209
130	-.035	.065	.126	-.165
131	-.061	.048	.024	-.143
132	-.061	.049	.023	-.150
133	-.043	.052	.066	-.153
134	-.036	.052	.069	-.140
135	-.033	.062	.084	-.208
136	-.037	.068	.091	-.234
137	.139	.089	.419	-.054

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 1

WIND DIRECTION 315 TEMPERATURE 88.00 DEGREES F
 BAROMETRIC PRESS 24.62 IN HG VELOCITY 61.65 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.228	.099	-.026	-.625
2	.158	.096	.468	-.168
3	-.302	.134	.053	-.918
4	.138	.098	.368	-.181
5	-.073	.143	.321	-.684
6	-.005	.107	.266	-.246
7	-.074	.067	.089	-.256
8	-.266	.107	-.005	-.598
9	.035	.071	.208	-.147
10	-.086	.054	.013	-.238
11	-.190	.070	-.040	-.353
12	.062	.055	.220	-.035
13	.053	.066	.215	-.088
14	-.212	.102	.148	-.530
15	-.381	.126	-.083	-.700
16	-.073	.134	.171	-.637
17	-.087	.058	.002	-.264
18	-.084	.063	.008	-.231
19	-.031	.058	.139	-.175
20	-.054	.049	.041	-.184
21	.001	.048	.080	-.102
22	-.101	.058	-.012	-.231
23	-.055	.049	.024	-.148
24	-.015	.058	.169	-.126
25	-.028	.048	.059	-.104
117	.065	.078	.337	-.075
118	.059	.066	.229	-.070
119	.023	.064	.182	-.170
120	.019	.056	.144	-.111
121	-.021	.059	.158	-.198
122	-.014	.054	.086	-.192
123	-.052	.055	.043	-.188
124	-.056	.058	.039	-.268
125	-.011	.054	.085	-.116
126	-.006	.055	.105	-.123
127	.037	.047	.120	-.040
128	.037	.047	.114	-.037
129	-.048	.046	.025	-.125
130	-.042	.046	.036	-.125
131	-.020	.046	.073	-.096
132	-.020	.048	.071	-.101
133	-.020	.047	.052	-.104
134	-.023	.049	.049	-.101
135	-.014	.046	.063	-.088
136	-.017	.047	.066	-.101
137	.025	.063	.194	-.110

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 1

WIND DIRECTION 337 TEMPERATURE 87.00 DEGREES F
BAROMETRIC PRESS 24.63 IN HG VELOCITY 62.10 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.263	.156	-.015	-.876
2	.162	.078	.342	-.059
3	-.238	.125	.028	-.657
4	.121	.084	.321	-.210
5	-.117	.118	.141	-.612
6	.055	.086	.245	-.168
7	-.056	.071	.092	-.315
8	-.098	.082	.074	-.323
9	-.001	.071	.196	-.246
10	-.033	.054	.064	-.200
11	-.072	.066	.092	-.246
12	.086	.061	.213	-.011
13	.034	.065	.263	-.089
14	-.078	.068	.059	-.238
15	-.117	.095	.073	-.498
16	.023	.077	.320	-.198
17	-.027	.055	.121	-.247
18	-.006	.063	.108	-.208
19	.023	.062	.176	-.141
20	-.008	.051	.112	-.131
21	.031	.051	.129	-.060
22	-.028	.051	.064	-.158
23	-.004	.048	.071	-.081
24	-.002	.050	.098	-.086
25	-.009	.047	.065	-.082
117	.018	.056	.156	-.076
118	.017	.051	.113	-.072
119	-.007	.058	.151	-.122
120	-.010	.054	.094	-.150
121	.006	.076	.181	-.245
122	.034	.053	.166	-.064
123	-.021	.050	.055	-.102
124	-.026	.050	.062	-.112
125	-.045	.064	.065	-.186
126	-.036	.066	.085	-.215
127	.054	.051	.160	-.043
128	.056	.052	.168	-.042
129	-.014	.048	.059	-.104
130	.002	.047	.079	-.089
131	-0.000	.049	.084	-.114
132	-.007	.052	.091	-.111
133	.004	.050	.091	-.086
134	.003	.050	.094	-.100
135	.011	.052	.112	-.103
136	.008	.054	.120	-.109
137	-.009	.055	.081	-.161

TABLE IX (Cont.)
Pressure Coefficients
Phase II

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 0 TEMPERATURE 84.00 DEGREES F
 BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.16 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.476	.187	-.043	-1.163
2	.111	.081	.292	-.385
3	-.350	.140	-.011	-.855
4	.080	.073	.233	-.267
5	-.322	.148	.039	-.985
6	.032	.073	.194	-.229
7	-.038	.066	.114	-.235
8	-.063	.070	.076	-.294
9	-.073	.083	.129	-.425
10	.010	.056	.112	-.130
11	-.013	.062	.112	-.162
12	.126	.064	.284	-.010
13	-.005	.066	.130	-.193
14	-.058	.076	.094	-.252
15	-.040	.088	.143	-.510
16	-.073	.118	.134	-.512
17	.002	.060	.124	-.184
18	.060	.058	.170	-.091
19	.010	.062	.127	-.162
20	.012	.051	.105	-.095
21	.052	.050	.139	-.036
22	.020	.052	.110	-.106
23	.022	.049	.112	-.075
24	.009	.051	.095	-.107
25	.007	.050	.097	-.097
101	-.012	.052	.096	-.125
102	.019	.051	.139	-.067
103	.045	.053	.160	-.074
104	.040	.053	.162	-.046
105	.021	.049	.104	-.052
106	.022	.048	.102	-.059

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 0 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.16 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.015	.050	.068	-.101
108	-.001	.047	.075	-.079
109	.005	.047	.068	-.084
110	.026	.046	.106	-.051
111	.009	.047	.073	-.076
112	.010	.047	.078	-.071
113	-.009	.055	.096	-.140
114	.013	.053	.099	-.161
115	.003	.050	.100	-.093
116	.003	.050	.095	-.090
117	-.011	.047	.063	-.081
118	.007	.046	.070	-.059
119	.001	.049	.074	-.087
120	-.003	.048	.066	-.082
121	.030	.063	.193	-.125
122	.062	.055	.194	-.026
123	-.028	.047	.108	-.105
124	-.032	.048	.058	-.108
125	-.048	.063	.118	-.198
126	-.016	.059	.091	-.133
127	.073	.053	.172	-.082
128	.076	.052	.187	-.007
129	-.008	.047	.089	-.095
130	.036	.046	.100	-.050
131	-.005	.047	.063	-.109
132	-.014	.049	.056	-.128
133	-.010	.050	.099	-.101
134	.003	.051	.097	-.095
135	.002	.049	.092	-.090
136	-.002	.050	.092	-.099
137	-0.000	.046	.065	-.073

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 22 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.21 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.132	.166	.184	-.804
2	-.035	.126	.275	-.514
3	-.432	.202	.044	-1.078
4	-.008	.121	.258	-.465
5	-.480	.113	-.198	-.794
6	.050	.086	.276	-.285
7	-.095	.069	.087	-.353
8	-.136	.093	.074	-.502
9	-.125	.094	.056	-.626
10	.038	.066	.187	-.129
11	-.111	.094	.091	-.371
12	.046	.063	.183	-.092
13	-.070	.071	.107	-.309
14	-.054	.080	.118	-.442
15	-.093	.084	.089	-.491
16	-.163	.116	.107	-.672
17	.007	.079	.237	-.188
18	-.081	.092	.146	-.363
19	-.061	.063	.141	-.214
20	.024	.059	.152	-.121
21	.019	.050	.104	-.070
22	-.075	.063	.056	-.207
23	-.026	.051	.061	-.106
24	-.040	.053	.046	-.138
25	-.044	.050	.049	-.126
101	-.055	.055	.085	-.133
102	-.027	.052	.080	-.121
103	-.003	.059	.146	-.130
104	-.029	.058	.131	-.135
105	-.049	.060	.098	-.194
106	-.044	.057	.136	-.150

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 22 TEMPERATURE 84.00 DEGREES F
 BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.21 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.089	.058	.016	-.232
108	-.055	.050	.042	-.157
109	-.041	.054	.053	-.158
110	-.023	.051	.079	-.146
111	-.029	.046	.044	-.096
112	-.032	.046	.058	-.101
113	-.057	.053	.064	-.249
114	-.034	.050	.057	-.121
115	-.041	.048	.044	-.115
116	-.045	.049	.044	-.127
117	-.099	.057	.021	-.253
118	-.054	.052	.034	-.168
119	-.084	.058	.015	-.238
120	-.075	.054	.025	-.234
121	.064	.080	.338	-.123
122	.084	.065	.285	-.013
123	-.088	.053	-.002	-.213
124	-.094	.056	-.009	-.248
125	-.066	.057	.035	-.202
126	-.047	.057	.072	-.190
127	.031	.050	.151	-.051
128	.031	.051	.164	-.055
129	-.064	.050	.024	-.214
130	.009	.049	.109	-.092
131	-.037	.051	.061	-.161
132	-.053	.055	.058	-.198
133	-.029	.048	.061	-.106
134	-.015	.051	.065	-.103
135	-.022	.046	.069	-.097
136	-.029	.047	.076	-.105
137	-.057	.051	.024	-.182

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 45 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.110	.074	.070	-.436
2	.010	.115	.232	-.348
3	-.192	.110	.089	-.688
4	.065	.099	.338	-.221
5	-.163	.100	.145	-.568
6	.066	.111	.454	-.269
7	-.070	.103	.366	-.309
8	-.185	.099	.129	-.516
9	-.128	.080	.126	-.419
10	.097	.092	.356	-.098
11	-.069	.086	.126	-.365
12	.057	.067	.218	-.069
13	-.109	.068	.053	-.240
14	.020	.065	.159	-.140
15	-.103	.093	.177	-.399
16	-.195	.090	.026	-.559
17	.008	.070	.211	-.138
18	-.084	.072	.068	-.306
19	-.077	.058	.053	-.215
20	-.020	.055	.132	-.111
21	-.018	.048	.055	-.110
22	-.088	.054	.009	-.204
23	-.048	.048	.027	-.130
24	-.049	.049	.048	-.149
25	-.065	.047	.026	-.144
101	-.113	.050	.009	-.201
102	-.078	.049	.039	-.163
103	-.063	.055	.057	-.164
104	-.091	.052	.004	-.202
105	-.060	.068	.215	-.171
106	-.068	.066	.144	-.199

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 45 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.099	.061	.057	-.264
108	-.132	.056	-.051	-.278
109	-.152	.075	-.038	-.386
110	-.093	.052	-.015	-.240
111	-.083	.047	.001	-.197
112	-.092	.049	-.001	-.203
113	-.095	.052	-.002	-.219
114	-.073	.047	.002	-.151
115	-.072	.047	-.002	-.147
116	-.079	.047	-.002	-.149
117	-.180	.060	-.034	-.300
118	-.117	.053	-.010	-.233
119	-.173	.060	-.055	-.343
120	-.161	.063	-.052	-.334
121	.048	.085	.264	-.148
122	.051	.070	.226	-.078
123	-.151	.065	-.010	-.314
124	-.158	.067	.001	-.380
125	-.112	.060	.004	-.246
126	-.094	.062	.027	-.239
127	-.019	.045	.059	-.084
128	-.018	.046	.059	-.083
129	-.106	.049	-.029	-.188
130	-.028	.050	.072	-.122
131	-.019	.048	.056	-.098
132	-.025	.050	.053	-.128
133	-.031	.056	.092	-.165
134	.012	.057	.118	-.123
135	-.028	.051	.080	-.128
136	-.050	.052	.042	-.182
137	-.111	.055	.008	-.228

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 67 TEMPERATURE 86.00 DEGREES F
 BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.15 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.060	.112	.232	-.684
2	-.036	.106	.194	-.565
3	-.230	.169	.189	-.738
4	-.047	.160	.269	-.636
5	-.228	.170	.154	-.944
6	-.042	.171	.367	-.700
7	-.028	.084	.361	-.212
8	-.194	.078	-.035	-.423
9	-.106	.067	.004	-.364
10	.051	.103	.350	-.139
11	-.153	.080	-.014	-.442
12	.026	.059	.166	-.077
13	-.078	.059	.035	-.237
14	-.026	.063	.160	-.199
15	-.156	.071	-.028	-.371
16	-.156	.067	-.028	-.358
17	-.020	.084	.297	-.215
18	-.143	.087	.018	-.426
19	-.085	.055	.015	-.234
20	-.011	.072	.195	-.147
21	-.010	.049	.078	-.094
22	-.151	.078	-.004	-.453
23	-.045	.051	.054	-.125
24	-.097	.066	.014	-.385
25	-.075	.050	.034	-.183
101	-.089	.051	.084	-.209
102	-.058	.049	.024	-.192
103	-.078	.051	.013	-.207
104	-.093	.055	.018	-.254
105	.124	.101	.348	-.119
106	.008	.062	.133	-.135

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 67 TEMPERATURE 86.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.15 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.018	.063	.124	-.147
108				
109	-.282	.094	-.100	-.527
110	-.178	.072	-.059	-.347
111	-.163	.062	-.055	-.324
112	-.150	.060	-.039	-.296
113	-.143	.055	-.048	-.245
114	-.113	.053	-.018	-.223
115	-.111	.052	-.036	-.204
116	-.105	.050	-.031	-.200
117	-.142	.064	.005	-.307
118	-.089	.055	.011	-.203
119	-.219	.066	-.100	-.381
120	-.208	.074	-.061	-.441
121	.001	.063	.157	-.145
122	.044	.059	.179	-.059
123	-.106	.057	.007	-.260
124	-.081	.054	.021	-.186
125	-.074	.058	.026	-.193
126	-.054	.059	.051	-.196
127	-.006	.047	.075	-.077
128	-.007	.048	.071	-.077
129	-.104	.061	.004	-.249
130	-.003	.052	.089	-.096
131	-.048	.056	.043	-.173
132	-.063	.066	.079	-.221
133	-.057	.060	.061	-.176
134	-.046	.080	.091	-.222
135	-.034	.058	.058	-.202
136	-.072	.063	.062	-.209
137	-.109	.066	.043	-.271

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 90 TEMPERATURE 87.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.30 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.097	.079	.212	-.269
2	-.048	.076	.180	-.427
3	-.300	.103	-.098	-.757
4	.002	.090	.267	-.259
5	-.220	.092	-.060	-.571
6	.065	.103	.350	-.204
7	-.068	.072	.131	-.268
8	-.309	.075	-.161	-.480
9	-.158	.059	-.053	-.295
10	.021	.082	.266	-.141
11	-.332	.104	-.126	-.651
12	.013	.056	.126	-.092
13	-.144	.060	-.036	-.288
14	-.012	.065	.231	-.125
15	-.255	.085	-.079	-.514
16	-.149	.064	-.029	-.377
17	.013	.106	.311	-.229
18	-.277	.111	-.060	-.600
19	-.120	.061	.009	-.334
20	.035	.072	.316	-.095
21	-.047	.052	.056	-.134
22	-.245	.081	-.071	-.457
23	-.045	.053	.064	-.130
24	-.145	.063	-.009	-.295
25	-.089	.051	.028	-.192
101	-.092	.047	-.017	-.176
102	-.062	.048	.012	-.141
103	-.078	.051	.020	-.192
104	-.075	.054	.039	-.189
105	.038	.072	.270	-.193
106	-.003	.055	.095	-.113

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 90 TEMPERATURE 87.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 62.30 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.047	.056	.093	-.144
108	-.038	.063	.129	-.167
109	-.136	.056	-.047	-.272
110	-.140	.055	-.052	-.248
111	-.120	.047	-.027	-.197
112	-.121	.047	-.037	-.207
113	-.139	.050	-.038	-.224
114	-.123	.048	-.016	-.199
115	-.127	.048	-.029	-.201
116	-.127	.048	-.024	-.205
117	-.038	.050	.075	-.130
118	-.015	.050	.083	-.105
119	-.092	.053	.005	-.217
120	-.092	.060	.032	-.238
121	-.012	.060	.111	-.141
122	.007	.058	.120	-.098
123	-.014	.049	.072	-.096
124	-.011	.047	.064	-.095
125	-.087	.054	.079	-.192
126	-.072	.050	.018	-.174
127	-.046	.047	.034	-.126
128	-.046	.047	.033	-.120
129	-.107	.065	.017	-.247
130	-.041	.053	.066	-.153
131	-.041	.052	.064	-.154
132	-.044	.054	.057	-.136
133	-.051	.053	.066	-.158
134	-.025	.056	.081	-.154
135	-.040	.050	.063	-.138
136	-.042	.050	.055	-.151
137	-.060	.053	.032	-.180

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 112 TEMPERATURE 85.00 DEGREES F
 BAROMETRIC PRESS 24.71 IN HG VELOCITY 61.62 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.105	.085	.402	-.058
2	-.040	.050	.047	-.119
3	-.193	.075	-.054	-.505
4	-.055	.053	.049	-.157
5	-.131	.067	-.008	-.336
6	.012	.075	.189	-.153
7	.005	.067	.188	-.132
8	-.209	.074	-.060	-.425
9	-.082	.054	.017	-.209
10	.065	.091	.304	-.139
11	-.246	.097	-.066	-.606
12	-.012	.049	.081	-.099
13	-.103	.063	-.001	-.352
14	-.013	.077	.252	-.150
15	-.192	.083	-.051	-.415
16	-.094	.064	.014	-.326
17	.007	.096	.295	-.177
18	-.204	.111	-.010	-.636
19	-.103	.062	.004	-.260
20	.052	.094	.376	-.121
21	-.054	.049	.033	-.139
22	-.244	.103	-.077	-.647
23	-.030	.056	.076	-.156
24	-.156	.075	-.030	-.391
25	.004	.071	.184	-.127
101	-.106	.050	-.028	-.207
102	-.081	.050	-.001	-.182
103	-.171	.064	-.044	-.307
104	-.177	.073	-.038	-.379
105	-.079	.072	.099	-.316
106	-.002	.054	.107	-.144

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 112 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.71 IN HG VELOCITY 61.62 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	.197	.107	.621	-.004
108				
109	-.118	.082	.074	-.352
110	-.118	.092	.081	-.431
111	-.101	.048	-.015	-.180
112	-.096	.048	-.015	-.177
113	-.126	.049	-.047	-.211
114	-.111	.049	-.042	-.206
115	-.121	.048	-.051	-.209
116	-.128	.049	-.057	-.237
117	-.130	.064	.084	-.290
118	-.103	.060	.038	-.299
119	0.000	.049	.090	-.137
120	.004	.052	.122	-.098
121	-.010	.052	.081	-.117
122	.026	.052	.144	-.094
123	.033	.057	.153	-.067
124	.033	.057	.147	-.062
125	-.064	.046	.021	-.131
126	-.040	.046	.047	-.108
127	-.050	.046	.033	-.121
128	-.050	.047	.036	-.122
129	-.019	.050	.060	-.104
130	.007	.049	.088	-.087
131	.021	.055	.161	-.094
132	.024	.055	.134	-.087
133	.019	.063	.203	-.144
134	.053	.062	.211	-.080
135	.004	.056	.137	-.161
136	.008	.054	.115	-.095
137	-.039	.055	.062	-.145

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 135 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.72 IN HG VELOCITY 61.25 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.033	.078	.263	-.091
2	-.019	.046	.058	-.090
3	-.071	.057	.032	-.193
4	-.035	.048	.057	-.110
5	-.029	.060	.084	-.223
6	-.009	.054	.120	-.107
7	.051	.065	.214	-.077
8	-.186	.079	-.045	-.422
9	-.055	.060	.055	-.332
10	-.024	.111	.277	-.543
11	-.244	.106	.112	-.540
12	-.015	.070	.081	-.565
13	-.156	.075	-.026	-.354
14	-.040	.061	.130	-.193
15	-.180	.073	.014	-.462
16	-.118	.066	-.002	-.345
17	.034	.075	.255	-.152
18	-.252	.115	-.033	-.664
19	-.120	.064	-.011	-.338
20	.061	.095	.409	-.177
21	-.071	.082	.058	-.547
22	-.287	.118	-.080	-.748
23	-.029	.065	.114	-.247
24	-.214	.073	-.063	-.406
25	.050	.072	.235	-.101
101	-.088	.049	-.009	-.173
102	-.063	.050	.016	-.149
103	-.147	.064	-.023	-.420
104	-.148	.074	-.019	-.410
105	-.079	.065	.041	-.333
106	-.014	.051	.074	-.104

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 135 TEMPERATURE 85.00 DEGREES F
 BAROMETRIC PRESS 24.72 IN HG VELOCITY 61.25 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	.125	.123	.531	-.183
108	.186	.126	.509	-.146
109	.020	.103	.266	-.368
110	.029	.116	.368	-.329
111	-.068	.060	.056	-.165
112	-.057	.063	.099	-.177
113	-.153	.052	-.075	-.257
114	-.142	.052	-.059	-.255
115	-.157	.053	-.068	-.288
116	-.161	.054	-.080	-.356
117	-.208	.069	-.073	-.399
118	-.188	.071	-.043	-.460
119	-.008	.055	.089	-.171
120	.006	.065	.167	-.168
121	-.024	.057	.101	-.149
122	.018	.059	.130	-.094
123	.108	.074	.350	-.033
124	.100	.066	.285	-.012
125	-.056	.046	.025	-.121
126	-.033	.046	.052	-.098
127	-.054	.047	.021	-.139
128	-.046	.048	.039	-.133
129	-.024	.054	.103	-.140
130	.013	.052	.132	-.102
131	.031	.060	.167	-.077
132	.034	.061	.188	-.075
133	.142	.090	.411	-.024
134	.182	.089	.443	.013
135	.072	.077	.359	-.124
136				
137	-.065	.067	.075	-.274

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 157 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 61.92 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.012	.055	.161	-.081
2	.016	.049	.100	-.059
3	-.011	.053	.089	-.104
4	.002	.050	.083	-.117
5	.007	.054	.122	-.107
6	.016	.053	.124	-.090
7	.077	.065	.257	-.090
8	-.099	.080	.056	-.312
9	-.009	.055	.089	-.125
10	-.012	.102	.193	-.353
11	-.162	.088	-.015	-.462
12	.024	.051	.113	-.073
13	-.084	.063	.035	-.256
14	-.002	.061	.164	-.111
15	-.094	.063	.034	-.255
16	-.046	.052	.054	-.172
17	.018	.058	.145	-.131
18	-.014	.066	.117	-.181
19	-.040	.055	.056	-.167
20	.064	.090	.348	-.172
21	-.103	.117	.123	-.618
22	-.222	.134	.015	-.851
23	-.029	.087	.172	-.362
24	-.155	.077	-.024	-.536
25	.037	.066	.213	-.135
101	-.014	.050	.062	-.107
102	.017	.051	.096	-.077
103	-.067	.052	.024	-.181
104	-.064	.054	.044	-.193
105	-.039	.053	.083	-.161
106	.002	.049	.120	-.081

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 157 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 61.92 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	.034	.116	.362	-.300
108				
109	.158	.105	.450	-.061
110	.174	.101	.475	-.101
111	.046	.083	.298	-.093
112	.049	.085	.327	-.103
113	-.163	.060	-.064	-.327
114	-.168	.063	-.058	-.368
115	-.162	.063	-.055	-.337
116	-.156	.064	-.052	-.324
117	-.194	.083	.014	-.435
118	-.170	.095	.109	-.526
119	-.001	.053	.097	-.102
120	.022	.063	.188	-.098
121	-.023	.054	.089	-.130
122	0.000	.057	.110	-.112
123	.180	.087	.451	.031
124	.153	.075	.382	.031
125	-.017	.046	.070	-.088
126	.007	.047	.096	-.071
127	-.018	.048	.093	-.097
128	-.009	.048	.102	-.082
129	-.017	.051	.075	-.123
130	.013	.049	.117	-.063
131	.009	.054	.136	-.088
132	.007	.054	.135	-.100
133	.106	.085	.418	-.118
134	.096	.080	.432	-.054
135	.187	.094	.483	-.004
136	.153	.085	.412	-.035
137	-.060	.063	.120	-.215

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 180 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 61.98 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.030	.049	.120	-.073
2	.029	.049	.123	-.087
3	.027	.049	.132	-.083
4	.012	.048	.100	-.096
5	.020	.052	.160	-.057
6	.019	.051	.156	-.058
7	.016	.052	.146	-.084
8	.016	.052	.173	-.072
9	.023	.051	.127	-.060
10	-.028	.065	.101	-.408
11	-.046	.065	.078	-.397
12	.019	.050	.103	-.072
13	-.043	.060	.071	-.236
14	.028	.056	.168	-.079
15	.002	.051	.115	-.108
16	.002	.049	.104	-.114
17	.007	.055	.135	-.104
18	.074	.050	.173	-.019
19	.011	.052	.110	-.125
20	-.095	.106	.151	-.458
21	.037	.083	.221	-.373
22	-.135	.098	.136	-.459
23	.043	.085	.243	-.380
24	-.160	.109	.075	-.621
25	.018	.068	.160	-.380
101	-.009	.054	.097	-.140
102	.020	.055	.135	-.123
103	.025	.050	.110	-.053
104	.032	.051	.115	-.049
105	-.028	.051	.065	-.116
106	.008	.050	.102	-.069

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 180 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 61.98 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.052	.087	.194	-.264
108	-.061	.116	.227	-.386
109	.218	.113	.549	.031
110	.257	.097	.567	.084
111	.189	.105	.563	-.004
112	.194	.099	.546	.024
113	-.153	.088	.054	-.405
114	-.189	.118	.117	-.567
115	.038	.131	.400	-.232
116	.042	.104	.305	-.188
117	-.110	.119	.115	-.590
118	-.053	.115	.141	-.524
119	.009	.050	.108	-.080
120	.041	.064	.192	-.068
121	-.012	.054	.096	-.113
122	.023	.056	.120	-.084
123	.235	.093	.561	.034
124	.200	.083	.482	.043
125	.017	.050	.107	-.067
126	.038	.050	.120	-.049
127	.033	.053	.140	-.069
128	.036	.053	.160	-.059
129	.002	.059	.136	-.116
130	.020	.055	.127	-.113
131	.006	.054	.104	-.082
132	.009	.055	.111	-.093
133	.077	.088	.392	-.098
134	.088	.079	.326	-.074
135	.087	.090	.412	-.056
136	.061	.082	.317	-.126
137	-.067	.057	.064	-.182

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 202 TEMPERATURE 88.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.013	.051	.114	-.087
2	.021	.049	.108	-.058
3	-.018	.057	.091	-.159
4	.006	.049	.085	-.079
5	.030	.054	.230	-.074
6	.018	.049	.110	-.061
7	.014	.053	.110	-.089
8	-.020	.058	.101	-.163
9	.040	.060	.179	-.075
10	-.009	.060	.119	-.171
11	-.007	.057	.125	-.136
12	.033	.053	.129	-.083
13	-.024	.059	.092	-.171
14	.045	.057	.198	-.086
15	-.005	.056	.119	-.127
16	.012	.055	.153	-.081
17	-.015	.056	.090	-.210
18	.013	.060	.134	-.140
19	.031	.058	.163	-.062
20	-.128	.082	.007	-.467
21	.079	.069	.292	-.083
22	-.177	.108	.051	-.665
23	.074	.078	.282	-.195
24	-.012	.114	.313	-.394
25	.027	.079	.224	-.308
101	-.027	.056	.057	-.141
102	.002	.056	.089	-.130
103	.063	.052	.173	-.028
104	.075	.053	.198	-.031
105	.008	.057	.122	-.113
106	.043	.057	.162	-.053

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 202 TEMPERATURE 88.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.083	.064	.080	-.223
108	-.099	.080	.089	-.324
109	.148	.097	.437	-.037
110	.182	.096	.441	-.006
111	.253	.111	.549	-.014
112	.253	.102	.592	-.051
113	.072	.120	.339	-.401
114	.118	.139	.477	-.382
115	.197	.091	.476	.013
116	.216	.094	.545	.039
117	.014	.089	.295	-.453
118	.055	.084	.308	-.311
119	.032	.055	.146	-.069
120	.093	.075	.303	-.050
121	-.061	.056	.039	-.178
122	.010	.055	.166	-.097
123	.242	.102	.507	.061
124	.220	.088	.490	.058
125	.033	.049	.129	-.046
126	.055	.050	.149	-.023
127	.057	.055	.216	-.049
128	.052	.055	.192	-.048
129	.069	.086	.280	-.148
130	.058	.078	.271	-.160
131	-.053	.061	.048	-.244
132	-.023	.056	.082	-.158
133	-.041	.070	.173	-.186
134	0.000	.073	.212	-.163
135	-.011	.079	.362	-.136
136	-.026	.067	.173	-.153
137	-.022	.063	.100	-.180

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 225 TEMPERATURE 85.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.36 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.048	.056	.063	-.173
2	-.027	.052	.074	-.116
3	-.145	.065	-.020	-.286
4	-.044	.053	.059	-.137
5	.020	.069	.210	-.095
6	-.025	.051	.075	-.119
7	-.050	.056	.093	-.237
8	-.184	.077	-.034	-.438
9	-.007	.065	.157	-.186
10	-.060	.058	.070	-.213
11	-.101	.070	.049	-.268
12	.048	.054	.136	-.054
13	-.072	.076	.104	-.294
14	-.005	.060	.162	-.275
15	-.139	.082	.016	-.404
16	.005	.061	.170	-.133
17	-.081	.056	.038	-.285
18	-.147	.081	-.025	-.400
19	-.020	.072	.166	-.201
20	-.191	.077	-.052	-.475
21	.057	.080	.290	-.136
22	-.246	.112	-.024	-.715
23	.061	.079	.298	-.119
24	.016	.115	.388	-.303
25	.042	.064	.205	-.084
101	-.058	.057	.038	-.187
102	-.029	.058	.070	-.145
103	.065	.054	.168	-.038
104	.083	.054	.181	-.013
105	.015	.056	.134	-.086
106	.057	.054	.177	-.047

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 225 TEMPERATURE 85.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.36 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.056	.065	.061	-.283
108	-.046	.066	.076	-.222
109	-.003	.076	.191	-.153
110	.009	.085	.247	-.180
111	.114	.118	.432	-.257
112				
113	.227	.101	.570	.048
114	.265	.100	.606	.081
115	.242	.097	.566	.076
116	.260	.099	.639	.091
117	.128	.096	.452	-.032
118	.158	.093	.422	.004
119	.055	.060	.210	-.047
120	.156	.081	.401	.007
121	-.091	.058	.007	-.204
122	-.022	.056	.107	-.132
123	.185	.091	.429	.041
124	.182	.083	.451	.046
125	.039	.048	.119	-.034
126	.058	.048	.134	-.016
127	.064	.054	.184	-.052
128	.062	.053	.178	-.029
129	.052	.106	.328	-.205
130	.042	.099	.281	-.188
131	-.072	.057	.036	-.196
132	-.057	.053	.044	-.188
133	-.113	.058	.002	-.243
134	-.067	.053	.039	-.184
135	-.080	.057	.061	-.181
136	-.079	.060	.058	-.199
137	.003	.060	.102	-.146

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 247 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 62.41 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.150	.070	-.023	-.442
2	-.075	.052	.036	-.171
3	-.242	.071	-.108	-.471
4	-.069	.055	.046	-.167
5	-.029	.067	.191	-.168
6	-.041	.061	.097	-.152
7	-.106	.071	.073	-.414
8	-.265	.088	-.078	-.548
9	-.035	.071	.198	-.195
10	-.121	.059	.110	-.271
11	-.177	.067	-.072	-.405
12	.032	.058	.121	-.234
13	-.065	.079	.179	-.242
14	-.048	.058	.066	-.289
15	-.231	.071	-.086	-.436
16	-.010	.069	.188	-.239
17	-.127	.060	-.001	-.274
18	-.288	.107	-.089	-.617
19	-.039	.077	.181	-.301
20	-.211	.070	-.088	-.412
21	-.017	.066	.279	-.155
22	-.229	.090	-.075	-.614
23	.003	.064	.211	-.153
24	.043	.083	.275	-.119
25	.014	.053	.152	-.078
101	-.124	.083	.037	-.397
102	-.095	.083	.059	-.352
103	.027	.055	.141	-.097
104	.039	.052	.175	-.051
105	-.027	.057	.086	-.155
106	.021	.053	.106	-.124

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 247 TEMPERATURE 84.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 62.41 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.033	.060	.096	-.207
108	-.031	.054	.061	-.176
109	-.122	.064	-.018	-.297
110	-.112	.076	.005	-.356
111	-.113	.099	.164	-.388
112				
113	.270	.113	.733	.055
114	.262	.107	.670	.085
115	.248	.103	.568	.035
116	.239	.097	.548	.054
117	.084	.075	.327	-.072
118	.107	.069	.301	-.039
119	-.017	.057	.128	-.137
120	.085	.070	.292	-.090
121	-.103	.057	.071	-.201
122	-.070	.048	.024	-.161
123	.099	.065	.339	-.100
124	.105	.060	.320	-.010
125	.016	.048	.098	-.067
126	.038	.048	.125	-.048
127	.035	.048	.127	-.054
128	.028	.048	.122	-.067
129	-.125	.075	.073	-.307
130	-.122	.075	.060	-.327
131	-.078	.051	.007	-.174
132	-.081	.050	.005	-.166
133	-.083	.050	.012	-.175
134	-.054	.049	.040	-.138
135	-.058	.054	.078	-.174
136	-.040	.062	.099	-.171
137	-.046	.060	.061	-.231

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 270 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.84 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.350	.103	-.167	-.897
2	-.103	.061	.040	-.247
3	-.356	.082	-.198	-.632
4	-.077	.064	.099	-.239
5	-.007	.084	.219	-.167
6	-.037	.068	.095	-.179
7	-.128	.073	.060	-.470
8	-.366	.097	-.118	-.719
9	-.023	.085	.260	-.228
10	-.154	.059	-.039	-.324
11	-.283	.078	-.134	-.507
12	.010	.047	.087	-.059
13	-.008	.063	.156	-.154
14	-.194	.079	-.032	-.429
15	-.400	.102	-.169	-.790
16	-.022	.071	.211	-.245
17	-.139	.061	-.002	-.366
18	-.273	.115	-.035	-.654
19	-.052	.069	.152	-.251
20	-.205	.076	-.051	-.558
21	-.050	.049	.052	-.139
22	-.210	.071	-.084	-.481
23	-.033	.054	.101	-.143
24	.046	.092	.292	-.156
25	-.011	.054	.083	-.123
101	-.144	.087	.064	-.402
102	-.110	.086	.085	-.357
103	-0.000	.050	.086	-.102
104	-.007	.049	.072	-.117
105	-.096	.053	.008	-.206
106	-.069	.054	.034	-.175

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 270 TEMPERATURE 84.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.84 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.090	.053	.007	-.209
108	-.082	.052	.012	-.185
109	-.144	.067	-.007	-.332
110	-.123	.065	-.015	-.343
111	-.258	.098	-.046	-.613
112	-.257	.098	-.039	-.546
113	.268	.128	.583	-.009
114	.243	.109	.610	.034
115	.257	.110	.611	.038
116	.217	.107	.597	.008
117	-.058	.063	.106	-.238
118	-.020	.058	.120	-.144
119	-.059	.050	.033	-.146
120	-.050	.051	.046	-.129
121	-.078	.053	.059	-.154
122	-.068	.048	.018	-.145
123	-.023	.055	.073	-.152
124	-.016	.054	.083	-.147
125	.007	.048	.076	-.068
126	.029	.047	.100	-.046
127	.013	.046	.081	-.054
128	.012	.046	.083	-.058
129	-.171	.058	-.061	-.312
130	-.151	.061	-.037	-.352
131	-.052	.048	.046	-.132
132	-.055	.048	.021	-.134
133	-.053	.051	.052	-.144
134	-.031	.050	.064	-.113
135	-.030	.052	.061	-.126
136	-.024	.055	.110	-.134
137	-.076	.053	.017	-.232

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 292 TEMPERATURE 88.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.25 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.319	.103	-.085	-.756
2	-.087	.060	.056	-.249
3	-.333	.100	-.063	-.731
4	-.056	.064	.079	-.249
5	.106	.120	.508	-.216
6	-.014	.059	.095	-.134
7	-.106	.076	.055	-.333
8	-.281	.090	-.093	-.551
9	-.026	.070	.159	-.205
10	-.109	.060	.011	-.305
11	-.224	.074	-.069	-.441
12	.011	.048	.110	-.055
13	-.010	.063	.185	-.164
14	-.179	.077	-.006	-.399
15	-.359	.099	-.186	-.752
16	-.030	.069	.173	-.271
17	-.141	.061	-.010	-.337
18	-.314	.107	-.114	-.616
19	-.029	.085	.212	-.220
20	-.128	.065	-.005	-.319
21	-.028	.051	.085	-.123
22	-.195	.071	-.048	-.453
23	-.039	.055	.066	-.160
24	.022	.071	.246	-.114
25	-.048	.050	.045	-.136
101	-.016	.107	.258	-.314
102	.010	.102	.320	-.333
103	-.027	.053	.069	-.157
104	-.040	.051	.034	-.146
105	-.252	.075	-.120	-.581
106	-.176	.078	-.031	-.460

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 292 TEMPERATURE 88.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.25 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.125	.056	-.024	-.252
108	-.111	.057	-.008	-.237
109	-.161	.076	.008	-.350
110	-.143	.077	.003	-.367
111	-.158	.077	.029	-.404
112				
113	.191	.115	.548	-.107
114	.159	.101	.433	-.047
115	.169	.111	.530	-.089
116	.133	.093	.393	-.048
117	-.139	.058	-.024	-.293
118	-.090	.049	-.014	-.199
119	-.105	.060	.005	-.271
120	-.152	.063	-.047	-.365
121	-.081	.050	.008	-.178
122	-.065	.049	.029	-.151
123	-.100	.054	-.006	-.200
124	-.099	.051	-.014	-.181
125	-0.000	.048	.110	-.089
126	.023	.048	.121	-.064
127	-.001	.047	.081	-.083
128	.004	.046	.087	-.078
129	-.115	.052	-.030	-.264
130	-.098	.053	-0.000	-.276
131	-.051	.050	.055	-.130
132	-.050	.049	.033	-.130
133	-.051	.052	.050	-.160
134	-.029	.049	.059	-.123
135	-.036	.060	.070	-.188
136	-.040	.064	.093	-.218
137	-.127	.060	-.030	-.308

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 315 TEMPERATURE 86.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.49 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.265	.092	-.099	-.645
2	.192	.088	.470	-.055
3	-.361	.129	-.010	-.879
4	.145	.095	.374	-.123
5	-.085	.137	.286	-.515
6	.006	.095	.279	-.254
7	-.074	.066	.084	-.261
8	-.284	.107	-.005	-.604
9	.028	.074	.251	-.156
10	-.085	.055	.015	-.230
11	-.197	.070	-.066	-.395
12	.063	.055	.181	-.048
13	.060	.067	.217	-.080
14	-.219	.094	.131	-.468
15	-.385	.120	-.057	-.780
16	-.076	.122	.162	-.583
17	-.092	.056	.021	-.273
18	-.087	.065	.030	-.313
19	-.030	.059	.144	-.191
20	-.063	.051	.041	-.190
21	-.001	.048	.101	-.090
22	-.106	.060	-.007	-.272
23	-.052	.049	.030	-.143
24	-.013	.059	.188	-.107
25	-.019	.047	.073	-.103
101	.099	.077	.303	-.304
102	.119	.080	.328	-.209
103	-.024	.051	.065	-.120
104	-.032	.049	.052	-.148
105	-.191	.079	-.014	-.419
106	-.072	.065	.095	-.219

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 315 TEMPERATURE 86.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.49 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.087	.052	-.001	-.184
108	-.080	.051	.003	-.185
109	-.078	.050	.004	-.181
110	-.050	.048	.035	-.138
111	-.101	.056	.003	-.251
112	-.110	.065	-.002	-.407
113	.046	.097	.422	-.156
114	.056	.079	.276	-.090
115	.012	.082	.299	-.156
116	.039	.081	.308	-.120
117	-.096	.054	.010	-.204
118	-.061	.051	.031	-.248
119	-.069	.056	.050	-.201
120	-.096	.055	.017	-.227
121	-.034	.063	.142	-.178
122	-.013	.054	.121	-.130
123	-.059	.048	.026	-.146
124	-.058	.046	.018	-.135
125	-.006	.053	.083	-.100
126	.017	.053	.112	-.081
127	.042	.045	.120	-.022
128	.043	.046	.125	-.023
129	-.094	.056	.001	-.254
130	-.071	.061	.043	-.274
131	-.037	.047	.036	-.112
132	-.033	.048	.058	-.115
133	-.039	.047	.034	-.106
134	-.021	.048	.055	-.095
135	-.009	.047	.066	-.081
136	-.010	.048	.068	-.087
137	-.101	.057	-.003	-.289

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 2

WIND DIRECTION 337 TEMPERATURE 84.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.33 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.377	.178	-.017	-.997
2	.183	.081	.414	-.180
3	-.287	.118	-.030	-.643
4	.137	.081	.338	-.181
5	-.192	.148	.111	-.666
6	.065	.088	.297	-.300
7	-.060	.070	.086	-.271
8	-.075	.074	.099	-.397
9	-.013	.073	.232	-.311
10	-.030	.054	.081	-.170
11	-.063	.067	.059	-.295
12	.126	.067	.266	-.007
13	.030	.063	.268	-.085
14	-.087	.069	.066	-.301
15	-.099	.092	.095	-.398
16	.018	.078	.201	-.191
17	-.030	.052	.058	-.133
18	.009	.061	.118	-.212
19	.019	.057	.153	-.093
20	-.013	.047	.078	-.108
21	.040	.050	.141	-.046
22	-.021	.051	.055	-.167
23	-0.000	.046	.076	-.080
24	-.004	.048	.095	-.079
25	-.007	.046	.069	-.097
101	-.012	.057	.118	-.135
102	.015	.054	.125	-.074
103	.008	.049	.091	-.083
104	.007	.047	.091	-.069
105	-.025	.052	.075	-.146
106	-.021	.049	.061	-.115

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 2

WIND DIRECTION 337 TEMPERATURE 84.00 DEGREES F
 BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.33 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
107	-.077	.058	.009	-.202
108	-.048	.051	.047	-.150
109	-.030	.050	.056	-.111
110	-.017	.049	.072	-.092
111	-.045	.053	.048	-.152
112	-.042	.056	.070	-.197
113	.005	.065	.163	-.151
114	.021	.059	.186	-.113
115	-.012	.058	.165	-.140
116	.006	.059	.151	-.088
117	-.036	.048	.034	-.131
118	-.021	.047	.049	-.113
119	-.029	.048	.056	-.115
120	-.048	.047	.034	-.117
121	-.004	.077	.175	-.237
122	.035	.053	.127	-.057
123	-.021	.047	.080	-.101
124	-.027	.048	.068	-.102
125	-.048	.065	.082	-.218
126	-.020	.065	.101	-.165
127	.062	.051	.151	-.009
128	.062	.053	.152	-.016
129	-.034	.047	.046	-.130
130	-.001	.047	.075	-.079
131	-.016	.050	.075	-.112
132	-.022	.052	.073	-.118
133	-.019	.047	.072	-.100
134	-.007	.049	.086	-.110
135	-0.000	.046	.075	-.080
136	-.004	.047	.076	-.094
137	-.050	.049	.038	-.167

TABLE IX (Cont.)
Pressure Coefficients
Phase III

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 0 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.474	.173	-.039	-1.199
2	.087	.084	.256	-.343
3	-.372	.133	-.087	-.873
4	.058	.079	.236	-.278
5	-.340	.153	.140	-.783
6	.019	.113	.248	-.683
7	-.037	.067	.224	-.209
8	-.058	.063	.088	-.233
9	-.068	.077	.133	-.271
10	-.003	.059	.110	-.194
11	-.016	.063	.100	-.193
12	.117	.062	.253	-.005
13	-.002	.063	.147	-.151
14	-.057	.078	.092	-.300
15	-.043	.085	.179	-.380
16	-.080	.114	.151	-.433
17	.007	.058	.125	-.168
18	.057	.059	.160	-.108
19	.011	.063	.145	-.235
20	.018	.053	.121	-.074
21	.061	.050	.173	-.030
22	.022	.053	.119	-.154
23	.059	.049	.143	-.018
24	.024	.054	.152	-.169
25	.011	.047	.089	-.065
26	.033	.048	.125	-.068
27	.029	.049	.132	-.078
28	.029	.050	.117	-.090
29	.022	.052	.103	-.093
30	.027	.050	.124	-.103
31	-.017	.049	.075	-.090
32	.035	.052	.173	-.060
33	.033	.051	.124	-.068
34	.037	.052	.125	-.081
35	.040	.054	.159	-.060
36	.041	.051	.143	-.047
37	-.020	.046	.046	-.103
38	.043	.052	.154	-.064

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 0 TEMPERATURE 83.00 DEGREES F
 BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.023	.047	.059	-.115
40	.041	.054	.183	-.074
41	-.027	.048	.043	-.098
42	.052	.058	.224	-.064
43	-.034	.049	.048	-.112
44	.036	.057	.197	-.075
45	-.022	.046	.053	-.094
46	.061	.069	.335	-.061
47	-.009	.045	.067	-.069
48	.033	.049	.116	-.052
49	-.009	.045	.073	-.081
50	.026	.051	.117	-.125
51	-.019	.046	.067	-.095
52	.025	.052	.137	-.069
53	-.018	.045	.069	-.087
54	.054	.062	.288	-.047
55	-.017	.045	.064	-.086
56	.035	.052	.173	-.059
57	-.010	.044	.053	-.076
58	.094	.066	.294	-.033
59	-.013	.045	.051	-.090
60	.006	.045	.060	-.067
61	-.004	.047	.058	-.093
62	-.011	.049	.070	-.101
63	-.008	.046	.050	-.092
64	-.042	.053	.043	-.161
65	-.012	.046	.068	-.093
66	-.033	.057	.073	-.197
67	.019	.045	.103	-.064
68	.008	.047	.106	-.060
69	-.002	.048	.069	-.078
88	-.002	.050	.072	-.105
89	-.017	.047	.066	-.093
90	-.001	.048	.088	-.078
91	.038	.065	.256	-.079
92				
93	-.006	.050	.079	-.090
94	-.013	.052	.072	-.110

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 0 TEMPERATURE 83.00 DEGREES F
 BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.018	.056	.077	-.185
102	.015	.053	.101	-.089
103	.019	.048	.092	-.111
104	.018	.050	.110	-.147
105	-.019	.050	.075	-.105
106	-.017	.050	.073	-.114
107	-.028	.045	.053	-.114
108	-.023	.047	.061	-.112
109	-.025	.050	.057	-.120
110	-.005	.048	.072	-.086
111	-.016	.049	.055	-.111
112	-.016	.049	.064	-.121
113	-.027	.057	.086	-.159
114	-.006	.052	.090	-.113
115	-.026	.050	.060	-.126
116	-.021	.053	.063	-.128
117	-.023	.045	.066	-.088
118	-.005	.045	.076	-.078
119	-.031	.048	.051	-.129
120	-.037	.050	.046	-.156
121	-.023	.052	.072	-.130
122	.011	.049	.100	-.069
123	-.006	.044	.070	-.070
124	-.003	.044	.075	-.071
125	-.035	.058	.072	-.174
126	-.009	.057	.088	-.141
127	.077	.050	.167	.002
128	.079	.052	.171	-.002
129	-.017	.047	.058	-.089
130	.009	.048	.080	-.068
131	-.011	.049	.060	-.090
132	-.016	.051	.060	-.110
133	-.013	.048	.072	-.090
134	-.002	.050	.086	-.081
135	-.002	.048	.101	-.092
136	-.004	.048	.097	-.093
137	-.029	.052	.053	-.163

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 22 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.204	.188	.119	-1.083
2	-.030	.129	.225	-.598
3	-.461	.183	.021	-1.106
4	-.019	.129	.239	-.548
5	-.485	.113	-.145	-.901
6	.022	.090	.261	-.263
7	-.091	.073	.074	-.296
8	-.122	.097	.069	-.567
9	-.122	.085	.041	-.786
10	.024	.068	.208	-.118
11	-.092	.090	.097	-.358
12	.059	.063	.197	-.056
13	-.071	.073	.098	-.334
14	-.056	.082	.138	-.351
15	-.088	.085	.105	-.528
16	-.199	.128	.043	-.755
17	-.002	.087	.209	-.270
18	-.078	.092	.107	-.366
19	-.062	.060	.089	-.220
20	.026	.059	.157	-.085
21	.032	.050	.120	-.050
22	-.067	.066	.064	-.239
23	.018	.047	.090	-.057
24	-.017	.053	.079	-.122
25	-.045	.047	.031	-.136
26	.007	.061	.133	-.134
27	-.117	.073	.007	-.366
28	-.053	.052	.030	-.165
29	.001	.063	.164	-.144
30	-.131	.082	.052	-.453
31	-.050	.051	.040	-.165
32	-.024	.052	.064	-.154
33	.033	.061	.189	-.100
34	-.021	.062	.095	-.209
35	.014	.057	.154	-.100
36	.061	.057	.212	-.031
37	-.056	.048	.016	-.132
38	.060	.071	.217	-.157

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 22 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.063	.049	.013	-.145
40	.053	.068	.212	-.081
41	-.068	.048	.005	-.140
42	.054	.062	.195	-.071
43	-.081	.048	-.005	-.156
44	.079	.077	.316	-.071
45	-.070	.048	.025	-.154
46	.069	.071	.257	-.121
47	-.053	.051	.154	-.131
48	.041	.061	.189	-.107
49	-.055	.048	.031	-.131
50	.044	.064	.273	-.125
51	-.069	.049	.006	-.159
52	.047	.067	.208	-.110
53	-.068	.048	.014	-.156
54	.048	.061	.227	-.086
55	-.064	.048	.018	-.152
56	.086	.075	.294	-.042
57	-.059	.046	.011	-.136
58	.110	.079	.348	-.031
59	-.062	.047	.004	-.149
60	-.036	.051	.097	-.132
61	-.050	.048	.028	-.129
62	-.077	.055	.035	-.196
63	-.054	.048	.030	-.125
64	-.113	.061	.017	-.262
65	-.061	.048	.012	-.143
66	-.076	.055	.021	-.239
67	-.029	.048	.043	-.144
68	-.046	.048	.025	-.134
69	-.022	.054	.108	-.137
88	-.037	.049	.050	-.126
89	-.048	.047	.026	-.127
90	-.031	.047	.056	-.113
91	.031	.079	.276	-.104
92				
93	-.021	.049	.079	-.099
94	-.036	.053	.058	-.134

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 22 TEMPERATURE 82.00 DEGREES F
 BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.073	.056	.060	-.178
102	-.042	.057	.095	-.153
103	-.012	.046	.054	-.087
104	-.017	.048	.069	-.099
105	-.045	.048	.031	-.113
106	-.056	.050	.027	-.134
107	-.074	.049	-.002	-.161
108	-.053	.047	.012	-.137
109	-.067	.050	.016	-.149
110	-.046	.048	.048	-.122
111	-.066	.049	.012	-.150
112	-.069	.049	.012	-.156
113	-.091	.058	.117	-.248
114	-.073	.053	.037	-.182
115	-.080	.052	.012	-.174
116	-.081	.052	.026	-.177
117	-.065	.049	.017	-.152
118	-.047	.049	.027	-.125
119	-.072	.051	.002	-.179
120	-.073	.051	.006	-.165
121	-.053	.052	.045	-.154
122	-.014	.049	.073	-.090
123	-.054	.048	.030	-.140
124	-.050	.047	.021	-.138
125	-.068	.056	.082	-.181
126	-.050	.056	.092	-.172
127	.026	.048	.112	-.045
128	.025	.049	.119	-.044
129	-.052	.048	.034	-.141
130	-.024	.048	.061	-.115
131	-.033	.050	.050	-.135
132	-.044	.053	.054	-.145
133	-.030	.046	.037	-.113
134	-.012	.047	.059	-.086
135	-.035	.046	.048	-.100
136	-.043	.047	.044	-.116
137	-.061	.049	.012	-.143

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 45 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.097	.075	.048	-.339
2	-.003	.114	.255	-.391
3	-.196	.125	.279	-.822
4	.059	.105	.357	-.413
5	-.161	.102	.117	-.610
6	.068	.114	.403	-.276
7	-.063	.108	.280	-.294
8	-.181	.102	.121	-.492
9	-.119	.081	.085	-.397
10	.102	.090	.350	-.092
11	-.067	.084	.114	-.391
12	.046	.065	.193	-.091
13	-.094	.070	.085	-.254
14	.014	.064	.185	-.174
15	-.093	.089	.148	-.347
16	-.178	.093	.117	-.577
17	.016	.069	.202	-.113
18	-.097	.073	.062	-.306
19	-.073	.055	.027	-.192
20	-.014	.058	.166	-.136
21				
22	-.088	.063	.029	-.271
23	-.018	.050	.057	-.158
24	-.018	.053	.071	-.141
25	-.056	.048	.022	-.127
26	-.041	.064	.126	-.205
27	-.170	.079	-.061	-.461
28	-.079	.050	-.006	-.235
29	-.053	.066	.101	-.214
30	-.178	.090	-.035	-.460
31	-.091	.049	-.007	-.194
32	-.063	.050	.044	-.194
33	.020	.064	.196	-.200
34	-.122	.074	.023	-.375
35	-.041	.053	.067	-.170
36	.047	.070	.262	-.087
37	-.108	.050	-.022	-.195
38	-.049	.088	.132	-.352

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 45 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.115	.053	.093	-.285
40	-.036	.067	.090	-.204
41	-.133	.052	-.029	-.238
42	-.020	.056	.096	-.143
43	-.143	.052	-.047	-.247
44	-.081	.105	.142	-.382
45	-.133	.050	-.033	-.221
46	-.006	.059	.140	-.166
47	-.116	.049	-.027	-.205
48	.052	.084	.265	-.081
49	-.119	.052	-.021	-.223
50	-.054	.075	.118	-.259
51	-.132	.051	-.050	-.221
52	-.061	.075	.055	-.245
53	-.127	.048	-.061	-.202
54	-.030	.055	.073	-.161
55	-.125	.048	-.060	-.204
56	-.036	.081	.140	-.244
57	-.117	.046	-.047	-.213
58	.033	.062	.225	-.090
59	-.114	.047	-.046	-.204
60	-.063	.070	.109	-.195
61	-.109	.052	-.014	-.199
62	-.132	.056	.016	-.238
63	-.112	.049	-.024	-.200
64	-.163	.066	-.053	-.372
65	-.114	.052	-.007	-.209
66	-.129	.060	-.023	-.279
67	-.079	.051	.002	-.173
68	-.072	.048	.010	-.148
69	-.050	.050	.040	-.136
88	-.067	.049	.014	-.168
89	-.062	.050	.034	-.151
90	-.063	.050	.030	-.152
91	.058	.097	.318	-.137
92				
93	-.048	.056	.048	-.182
94	-.084	.071	.077	-.285

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 45 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.107	.052	-.024	-.194
102	-.079	.051	.007	-.173
103	-.042	.046	.032	-.109
104	-.053	.047	.037	-.135
105	-.104	.052	.065	-.191
106	-.117	.051	-.036	-.202
107	-.126	.049	-.050	-.206
108	-.108	.053	-.012	-.221
109	-.106	.050	-.027	-.189
110	-.106	.055	-.002	-.212
111	-.096	.050	-.013	-.179
112	-.095	.050	-.012	-.179
113	-.093	.051	.022	-.200
114	-.077	.048	.017	-.151
115	-.076	.046	.008	-.156
116	-.081	.047	.010	-.168
117	-.122	.052	-.031	-.215
118	-.102	.051	-.007	-.197
119	-.154	.056	-.069	-.264
120	-.150	.055	-.061	-.249
121	-.080	.053	.042	-.185
122	-.035	.050	.084	-.125
123	-.187	.057	-.091	-.294
124	-.147	.060	-.043	-.299
125	-.099	.060	.011	-.247
126	-.086	.061	.021	-.232
127	-.011	.044	.047	-.078
128	-.011	.044	.056	-.076
129	-.084	.049	-0.000	-.187
130	-.051	.048	.034	-.139
131	-.036	.052	.076	-.140
132	-.047	.056	.108	-.169
133	-.030	.056	.080	-.155
134	.009	.060	.146	-.166
135	-.026	.054	.071	-.135
136	-.050	.054	.045	-.158
137	-.120	.051	-.031	-.213

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 67 TEMPERATURE 81.00 DEGREES F
 BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.19 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.024	.125	.337	-.338
2	-.116	.069	.029	-.259
3	-.276	.121	.083	-.605
4	-.127	.076	.102	-.317
5	-.329	.104	-.097	-.653
6	-.060	.107	.311	-.305
7	.051	.099	.398	-.194
8	-.258	.117	.080	-.641
9	-.218	.082	-.055	-.494
10	.004	.083	.319	-.161
11	-.135	.080	.042	-.404
12	-.065	.052	.043	-.144
13	-.091	.060	.021	-.233
14	-.058	.074	.265	-.198
15	-.189	.080	.042	-.449
16	-.225	.081	-.070	-.534
17	-.030	.088	.220	-.255
18	-.235	.105	-.030	-.587
19	-.129	.060	-.026	-.309
20	-.046	.075	.136	-.247
21	-.075	.048	0.000	-.152
22	-.268	.121	-.084	-.654
23	-.064	.049	.018	-.149
24	-.091	.054	-.003	-.250
25	-.071	.047	.018	-.135
26	-.025	.056	.095	-.163
27	-.480	.159	-.189	-.965
28	-.155	.066	-.034	-.341
29	-.077	.081	.116	-.314
30	-.499	.154	-.191	-1.063
31	-.097	.050	-.011	-.175
32	-.133	.064	-.017	-.330
33	.027	.069	.205	-.134
34	-.503	.126	-.251	-.914
35	-.138	.060	-.028	-.347
36	.093	.071	.287	-.051
37	-.115	.049	.023	-.198
38	-.233	.081	-.045	-.536

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 67 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.19 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.117	.050	-.011	-.351
40	-.151	.080	.015	-.366
41	-.118	.050	-.042	-.198
42	-.076	.062	.055	-.358
43	-.124	.051	-.037	-.206
44	-.259	.098	-.061	-.585
45	-.135	.053	-.043	-.220
46	-.062	.070	.087	-.228
47	-.121	.055	.048	-.202
48	.101	.095	.337	-.160
49	-.113	.049	-.035	-.194
50	-.128	.063	.030	-.291
51	-.123	.050	-.036	-.217
52	-.180	.077	-.024	-.401
53	-.128	.049	-.030	-.205
54	-.072	.065	.057	-.292
55	-.127	.051	-.019	-.214
56	-.165	.073	-.029	-.327
57	-.128	.050	-.039	-.215
58	-.024	.062	.124	-.160
59	-.133	.051	-.045	-.229
60	-.030	.083	.321	-.211
61	-.116	.050	-.016	-.217
62	-.129	.059	.022	-.248
63	-.122	.050	-.019	-.222
64	-.200	.067	-.073	-.383
65	-.131	.050	-.039	-.211
66	-.127	.065	-.013	-.287
67	-.081	.054	.051	-.172
68	-.067	.053	.077	-.152
69	-.096	.046	-.025	-.166
88	-.101	.054	-.010	-.195
89	-.096	.052	-.009	-.188
90	-.099	.056	.004	-.206
91	-.087	.073	.089	-.266
92	.062	.064	.222	-.077
93	-.178	.072	-.021	-.343
94	-.153	.100	.095	-.502

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 67 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.70 IN HG VELOCITY 61.19 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.094	.050	-.010	-.189
102	-.059	.049	.034	-.166
103	-.089	.045	-.028	-.166
104	-.092	.051	-.010	-.223
105	-.100	.052	.022	-.192
106	-.089	.051	-.005	-.171
107	-.148	.053	-.037	-.256
108	-.054	.089	.323	-.254
109	-.163	.053	-.078	-.280
110	-.188	.065	-.045	-.334
111	-.145	.052	-.052	-.258
112	-.148	.052	-.061	-.258
113	-.135	.072	.226	-.258
114	-.129	.050	-.054	-.237
115	-.131	.049	-.053	-.239
116	-.129	.050	-.054	-.239
117	-.128	.050	-.046	-.272
118	-.117	.048	-.041	-.192
119	-.118	.047	-.049	-.204
120	-.120	.049	-.043	-.203
121	-.087	.057	.029	-.243
122	-.024	.058	.103	-.134
123	-.203	.063	-.071	-.321
124	-.116	.057	.021	-.228
125	-.098	.047	-.028	-.189
126	-.085	.047	-.018	-.174
127	-.079	.044	-.025	-.149
128	-.083	.044	-.022	-.148
129	-.136	.053	-.047	-.238
130	-.060	.051	.043	-.158
131	-.073	.054	.029	-.183
132	-.113	.066	.029	-.279
133	-.063	.061	.080	-.189
134	-.064	.082	.101	-.259
135	-.051	.058	.086	-.160
136	-.093	.063	.067	-.296
137	-.108	.051	-.018	-.224

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.71 IN HG VELOCITY 61.24 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.058	.084	.252	-.242
2	-.068	.068	.136	-.277
3	-.341	.136	-.063	-.916
4	.006	.089	.213	-.193
5	-.285	.111	-.078	-.689
6	.112	.110	.389	-.201
7	-.062	.068	.073	-.198
8	-.296	.075	-.139	-.483
9	-.149	.062	-.020	-.281
10	.032	.084	.371	-.149
11	-.353	.110	-.158	-.765
12	.012	.061	.161	-.104
13	-.144	.061	-.045	-.286
14	-.035	.064	.214	-.345
15	-.275	.089	-.123	-.571
16	-.156	.064	-.049	-.363
17	.001	.103	.430	-.277
18	-.290	.109	-.075	-.706
19	-.128	.063	-.002	-.327
20	.015	.077	.278	-.118
21	-.023	.050	.084	-.118
22	-.373	.113	-.174	-.749
23	-.015	.050	.104	-.106
24	-.128	.063	.001	-.350
25	-.035	.051	.071	-.132
26	-.017	.063	.185	-.155
27	-.387	.114	-.184	-.772
28	-.133	.056	-.039	-.282
29	-.034	.070	.210	-.204
30	-.366	.128	-.161	-.819
31	-.023	.048	.056	-.100
32	-.121	.057	-.019	-.344
33	-0.000	.085	.283	-.169
34	-.408	.154	.184	-.873
35	-.138	.068	-.008	-.500
36	.061	.090	.323	-.176
37	-.037	.049	.049	-.108
38	-.247	.095	-.066	-.540

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.71 IN HG VELOCITY 61.24 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.036	.050	.049	-.113
40	-.171	.074	-.035	-.377
41	-.041	.053	.068	-.131
42	-.106	.058	.003	-.276
43	-.046	.055	.069	-.142
44	-.332	.117	-.130	-.658
45	-.050	.057	.088	-.144
46	-.086	.058	.021	-.200
47	-.040	.055	.096	-.130
48	.100	.096	.392	-.070
49	-.040	.051	.060	-.118
50	-.152	.074	.004	-.381
51	-.043	.053	.066	-.145
52	-.205	.087	-.060	-.466
53	-.052	.053	.070	-.141
54	-.089	.057	.016	-.236
55	-.047	.054	.061	-.145
56	-.227	.088	-.072	-.520
57	-.059	.059	.088	-.235
58	-.066	.055	.018	-.177
59	-.068	.059	.117	-.280
60	.078	.104	.471	-.115
61	-.038	.054	.086	-.124
62	-.065	.058	.074	-.169
63	-.043	.056	.085	-.132
64	-.167	.079	-.026	-.466
65	-.067	.058	.131	-.211
66	-.112	.074	.026	-.359
67	-.020	.057	.243	-.122
68	-.040	.047	.039	-.123
69	-.046	.049	.039	-.125
88	-.037	.053	.062	-.142
89	-.039	.052	.048	-.174
90	-.036	.053	.058	-.170
91	-.020	.066	.119	-.248
92	.012	.075	.286	-.238
93	-.068	.071	.053	-.279
94	-.102	.097	.111	-.467

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.71 IN HG VELOCITY 61.24 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.081	.056	.251	-.172
102	-.063	.049	.038	-.151
103	-.055	.046	.013	-.136
104	-.060	.047	.016	-.152
105	-.031	.046	.044	-.113
106	-.023	.046	.053	-.095
107	-.055	.055	.066	-.150
108	.001	.064	.224	-.117
109	-.126	.056	.008	-.240
110	-.154	.064	.010	-.386
111	-.121	.050	-.028	-.222
112	-.124	.050	-.032	-.205
113	-.119	.050	-.028	-.202
114	-.111	.050	-.017	-.187
115	-.115	.049	-.017	-.195
116	-.114	.049	-.020	-.201
117	-.050	.050	.049	-.126
118	-.039	.049	.057	-.108
119	-.031	.045	.029	-.100
120	-.031	.046	.031	-.104
121	-.041	.055	.057	-.183
122	-.012	.052	.079	-.117
123	-.031	.053	.075	-.141
124	-.022	.049	.071	-.107
125	-.070	.055	.043	-.215
126	-.060	.055	.030	-.186
127	-.022	.047	.057	-.091
128	-.023	.048	.054	-.097
129	-.045	.049	.040	-.117
130	-.018	.048	.070	-.091
131	-.033	.059	.120	-.193
132	-.041	.064	.130	-.235
133	-.040	.055	.104	-.157
134	-.021	.059	.131	-.137
135	-.032	.050	.051	-.127
136	-.035	.050	.059	-.142
137	-.032	.049	.066	-.122

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.72 IN HG VELOCITY 60.94 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.114	.082	.359	-.036
2	-.016	.048	.056	-.095
3	-.179	.069	-.053	-.378
4	-.029	.050	.062	-.114
5	-.140	.065	.017	-.325
6	-.016	.066	.215	-.125
7	-.004	.069	.196	-.182
8	-.208	.077	-.071	-.419
9	-.069	.055	.033	-.206
10	.080	.090	.354	-.175
11	-.252	.089	-.089	-.566
12	.004	.052	.132	-.087
13	-.108	.067	.031	-.351
14	-.020	.078	.264	-.169
15	-.198	.086	-.044	-.450
16	-.101	.062	.021	-.386
17	-.006	.095	.328	-.223
18	-.230	.104	-.036	-.621
19	-.107	.058	0.000	-.328
20	.027	.094	.329	-.174
21	-.050	.057	.035	-.197
22	-.334	.120	-.107	-.769
23	.007	.056	.135	-.113
24	-.160	.084	.002	-.424
25	-.051	.059	.054	-.211
26	-.006	.068	.258	-.142
27	-.386	.118	-.186	-.863
28	-.138	.058	-.035	-.262
29	-.022	.075	.201	-.215
30	-.384	.116	-.169	-.824
31	.015	.052	.121	-.081
32	-.131	.059	-.038	-.265
33	-.010	.075	.217	-.200
34	-.402	.118	-.158	-.776
35	-.147	.059	-.039	-.296
36	-.016	.076	.186	-.190
37	-.002	.066	.300	-.137
38	-.274	.102	.080	-.656

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.72 IN HG VELOCITY 60.94 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.010	.077	.138	-.354
40	-.228	.088	.072	-.500
41	-.007	.063	.143	-.148
42	-.141	.063	-.043	-.308
43	.017	.066	.212	-.129
44	-.351	.118	-.137	-.730
45	.081	.105	.503	-.148
46	-.148	.064	-.020	-.345
47	.211	.122	.568	-.039
48	.036	.085	.326	-.139
49	-.024	.063	.111	-.197
50	-.201	.077	-.017	-.415
51	.001	.071	.192	-.146
52	-.262	.090	-.112	-.557
53	.160	.119	.590	-.106
54	-.158	.076	-.002	-.472
55	.236	.123	.705	-.012
56	-.316	.104	-.112	-.612
57	.135	.118	.468	-.162
58	-.153	.074	-.010	-.359
59	.169	.104	.499	-.067
60	.087	.102	.440	-.151
61	-.024	.061	.096	-.154
62	-.121	.075	.034	-.497
63	-.011	.087	.261	-.232
64	-.263	.102	-.071	-.612
65	.184	.116	.522	-.047
66	-.189	.082	-.009	-.426
67	.221	.105	.572	.035
68	.019	.055	.153	-.081
69	-.080	.053	.033	-.181
88	.011	.052	.117	-.071
89	.009	.055	.122	-.091
90	.008	.058	.127	-.114
91	.002	.061	.135	-.120
92				
93	-.039	.080	.129	-.305
94	-.023	.099	.185	-.371

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
 BAROMETRIC PRESS 24.72 IN HG VELOCITY 60.94 FPS

PRESSURE TAP NUMBR	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.077	.051	.015	-.182
102	-.061	.050	.031	-.171
103	-.078	.052	-.007	-.166
104	-.082	.053	-.008	-.167
105	-.004	.063	.087	-.263
106	.017	.052	.107	-.080
107	.181	.117	.523	-.049
108				
109	-.127	.092	.067	-.428
110	-.127	.100	.050	-.481
111	-.101	.047	-.006	-.166
112	-.098	.048	-.010	-.164
113	-.109	.046	-.047	-.181
114	-.110	.045	-.043	-.191
115	-.116	.045	-.063	-.198
116	-.123	.045	-.065	-.195
117	-.031	.060	.083	-.162
118	-.023	.060	.090	-.167
119	.022	.054	.122	-.073
120	.027	.057	.165	-.073
121	.002	.056	.158	-.122
122	.022	.055	.158	-.093
123	.049	.060	.193	-.058
124	.043	.058	.160	-.069
125	-.029	.045	.046	-.105
126	-.018	.045	.052	-.095
127	-.039	.046	.056	-.124
128	-.034	.045	.045	-.113
129	-.004	.050	.081	-.097
130	.007	.050	.089	-.088
131	.026	.058	.157	-.061
132	.028	.059	.197	-.065
133	.029	.065	.237	-.129
134	.047	.063	.213	-.138
135	.005	.058	.146	-.193
136	.007	.053	.108	-.156
137	.007	.057	.136	-.115

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 135 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.064	.080	.314	-.086
2	.007	.048	.088	-.074
3	-.066	.057	.040	-.190
4	-.003	.048	.087	-.077
5	-.051	.059	.058	-.233
6	-.016	.051	.101	-.091
7	.048	.066	.209	-.096
8	-.179	.077	-.056	-.396
9	-.047	.055	.040	-.169
10	0.000	.102	.218	-.319
11	-.270	.099	-.073	-.657
12	.020	.056	.120	-.072
13	-.166	.081	-.019	-.410
14	-.029	.067	.185	-.169
15	-.194	.070	-.053	-.455
16	-.103	.061	.016	-.305
17	.026	.074	.233	-.118
18	-.184	.104	-.021	-.522
19	-.089	.060	.015	-.308
20	.034	.089	.285	-.160
21	-.084	.084	.047	-.414
22	-.330	.106	-.016	-.683
23	.004	.097	.136	-.634
24	-.201	.092	.071	-.441
25	-.076	.078	.054	-.282
26	-.014	.065	.146	-.173
27	-.334	.092	-.146	-.620
28	-.138	.061	-.013	-.294
29	-.041	.065	.123	-.190
30	-.311	.103	-.096	-.688
31	.037	.053	.160	-.053
32	-.145	.073	.014	-.340
33	.011	.078	.262	-.201
34	-.416	.130	-.135	-.839
35	-.207	.074	-.025	-.419
36	-.203	.117	.106	-.553
37	.005	.081	.207	-.179
38	-.401	.164	-.103	-.947

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 135 TEMPERATURE 80.00 DEGREES F
 BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.003	.083	.193	-.233
40	-.295	.084	-.101	-.555
41	.024	.078	.193	-.225
42	-.241	.087	-.077	-.722
43	.086	.078	.298	-.086
44	-.392	.112	-.134	-.787
45	.234	.095	.560	.053
46	-.250	.086	-.082	-.538
47	.283	.103	.614	.103
48	-.083	.082	.146	-.367
49	-.046	.091	.238	-.308
50	-.216	.094	-.017	-.508
51	.149	.096	.370	-.105
52	-.324	.088	-.143	-.671
53	.264	.102	.611	.070
54	-.279	.085	-.096	-.538
55	.289	.112	.705	.078
56	-.351	.094	-.177	-.631
57	.256	.106	.567	-.069
58	-.239	.099	.321	-.489
59	.215	.121	.530	-.290
60	-.027	.102	.315	-.303
61	-.031	.088	.224	-.271
62	-.449	.216	-.099	-1.081
63	.196	.101	.473	-.098
64	-.328	.085	-.169	-.602
65	.248	.099	.571	.061
66	-.270	.086	-.087	-.551
67	.246	.104	.636	.066
68	.065	.059	.183	-.073
69	-.096	.055	-.005	-.230
88	.036	.057	.157	-.093
89	.026	.083	.152	-.473
90	.036	.063	.155	-.126
91	.020	.056	.146	-.079
92				
93	-.017	.060	.126	-.162
94	.016	.087	.248	-.264

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 135 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.83 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.072	.051	.014	-.176
102	-.050	.054	.074	-.152
103	-.095	.055	-.006	-.193
104	-.100	.056	-.008	-.229
105	.026	.055	.149	-.078
106	.045	.055	.171	-.059
107	.224	.102	.559	.037
108				
109	-.007	.115	.279	-.320
110	-.009	.122	.315	-.382
111	-.071	.061	.080	-.173
112	-.069	.061	.086	-.187
113	-.138	.052	-.027	-.262
114	-.136	.051	-.035	-.237
115	-.143	.051	-.053	-.247
116	-.148	.052	-.051	-.238
117	-.051	.079	.178	-.251
118	-.031	.076	.160	-.216
119	.057	.054	.158	-.040
120	.070	.063	.205	-.043
121	.018	.065	.151	-.128
122	.029	.064	.163	-.121
123	.125	.073	.378	.008
124	.119	.068	.348	.021
125	-.010	.049	.077	-.136
126	-0.000	.049	.090	-.091
127	-.022	.053	.087	-.126
128	-.020	.051	.099	-.112
129	.027	.056	.136	-.083
130	.037	.055	.144	-.082
131	.048	.058	.200	-.080
132	.051	.059	.219	-.077
133	.154	.085	.428	.008
134	.177	.085	.481	.029
135	.069	.073	.304	-.070
136	.052	.065	.235	-.069
137	.025	.073	.216	-.149

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.80 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.028	.055	.162	-.088
2	.034	.050	.143	-.057
3	.002	.053	.127	-.098
4	.025	.048	.104	-.057
5	.013	.051	.109	-.082
6	.018	.049	.108	-.057
7	.078	.068	.271	-.040
8	-.080	.076	.062	-.265
9	.005	.053	.099	-.194
10	-.018	.102	.198	-.379
11	-.161	.088	-.001	-.424
12	.039	.054	.145	-.058
13	-.086	.064	.055	-.247
14	-.006	.061	.198	-.124
15	-.080	.066	.029	-.270
16	-.029	.051	.060	-.124
17	.017	.062	.190	-.148
18	-.009	.061	.101	-.165
19	-.018	.052	.072	-.132
20	.045	.093	.259	-.309
21	-.100	.103	.090	-.418
22	-.281	.106	-.047	-.598
23	.024	.055	.128	-.129
24	-.167	.069	-.034	-.338
25	-.080	.086	.096	-.347
26	.023	.060	.179	-.080
27	-.166	.094	.017	-.501
28	-.077	.060	.029	-.254
29	.022	.072	.269	-.171
30	-.166	.111	.107	-.621
31	.048	.054	.150	-.047
32	-.105	.071	.029	-.381
33	-.118	.113	.223	-.538
34	-.188	.104	.127	-.604
35	-.145	.075	.034	-.383
36	-.173	.103	.045	-.718
37	.093	.087	.308	-.311
38	-.189	.108	.114	-.597

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.80 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	.086	.085	.305	-.245
40	-.229	.087	-.036	-.510
41	.102	.073	.313	-.050
42	-.181	.078	-.033	-.492
43	.126	.079	.361	-.043
44	-.232	.096	-.036	-.633
45	.284	.107	.637	.030
46	-.216	.089	-.044	-.481
47	.318	.115	.734	.120
48	-.174	.093	.018	-.447
49	.084	.119	.397	-.271
50	-.223	.098	-.007	-.674
51	.219	.088	.542	.030
52	-.229	.085	-.027	-.515
53	.281	.104	.627	.060
54	-.209	.108	.511	-.450
55	.281	.126	.686	-.321
56	-.238	.114	.536	-.541
57	.300	.117	.634	.100
58	-.162	.075	-.008	-.464
59	.279	.118	.638	.038
60	-.184	.140	.065	-.829
61	.109	.133	.534	-.312
62	-.323	.123	-.085	-.953
63	.303	.115	.640	-.173
64	-.237	.085	-.046	-.586
65	.278	.111	.596	.056
66	-.196	.086	.007	-.667
67	.285	.115	.653	.083
68	.076	.059	.196	-.080
69	-.084	.056	.025	-.210
88	.063	.057	.165	-.035
89	.062	.055	.181	-.041
90	.067	.056	.193	-.046
91	.067	.058	.185	-.028
92				
93	.019	.067	.189	-.107
94	.053	.075	.247	-.289

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
 BAROMETRIC PRESS 24.74 IN HG VELOCITY 60.80 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.019	.059	.091	-.259
102	.001	.054	.109	-.089
103	-.080	.060	.074	-.237
104	-.087	.059	.016	-.235
105	.035	.054	.146	-.060
106	.056	.054	.180	-.042
107	.234	.105	.533	.022
108				
109	.157	.115	.545	-.137
110	.170	.111	.499	-.082
111	.046	.087	.329	-.124
112	.048	.090	.373	-.130
113	-.160	.063	-.043	-.347
114	-.172	.065	-.063	-.310
115	-.163	.066	-.007	-.302
116	-.165	.067	-.020	-.325
117	.044	.100	.309	-.265
118	.056	.098	.295	-.247
119	.079	.055	.186	-.015
120	.120	.065	.263	-.008
121	.043	.074	.160	-.358
122	.058	.062	.173	-.073
123	.222	.097	.519	.017
124	.195	.082	.423	.037
125	.026	.047	.104	-.056
126	.034	.047	.107	-.051
127	.013	.049	.106	-.073
128	.011	.049	.106	-.075
129	.050	.055	.144	-.059
130	.057	.054	.148	-.052
131	.033	.055	.161	-.084
132	.037	.054	.168	-.063
133	.112	.087	.385	-.083
134	.098	.082	.353	-.043
135	.229	.113	.520	-.018
136	.188	.103	1.811	-.031
137	.065	.061	.184	-.096

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 180 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.34 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.037	.051	.157	-.060
2	.021	.051	.143	-.075
3	.026	.052	.139	-.063
4	.014	.050	.128	-.080
5	.023	.054	.143	-.068
6	.007	.052	.101	-.079
7	.016	.053	.122	-.085
8	.021	.054	.131	-.112
9	.035	.053	.168	-.066
10	-.039	.073	.112	-.257
11	-.049	.076	.104	-.267
12	.011	.058	.108	-.185
13	-.045	.074	.141	-.221
14	.027	.063	.213	-.165
15	.009	.054	.126	-.101
16	.012	.052	.104	-.100
17	.016	.058	.160	-.100
18	.065	.054	.189	-.066
19	.021	.055	.144	-.080
20	-.014	.074	.191	-.392
21	-.001	.065	.137	-.292
22	-.024	.073	.150	-.300
23	-.004	.062	.118	-.183
24	-.074	.066	.067	-.220
25	-.101	.072	.042	-.310
26	-.005	.058	.130	-.147
27	-.006	.063	.124	-.188
28	-.002	.062	.173	-.148
29	-.015	.070	.183	-.198
30	-.014	.078	.213	-.267
31	.005	.056	.128	-.113
32	-.015	.072	.186	-.216
33	-.094	.089	.172	-.345
34	-.109	.094	.134	-.403
35	-.108	.085	.187	-.394
36	-.184	.105	.069	-.713
37	.111	.072	.332	-.039
38	-.177	.101	.064	-.711

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 180 TEMPERATURE 77.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.34 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	.101	.072	.313	-.050
40	-.176	.086	.002	-.412
41	.096	.070	.322	-.042
42	-.133	.075	.011	-.449
43	.099	.078	.374	-.073
44	-.162	.085	.032	-.542
45	.256	.095	.578	.082
46	-.142	.077	.011	-.401
47	.269	.097	.561	.085
48	-.161	.090	.079	-.663
49	.159	.097	.438	-.181
50	-.170	.094	.048	-.495
51	.222	.088	.480	.051
52	-.142	.078	.018	-.425
53	.250	.094	.565	.085
54	-.136	.075	-.003	-.400
55	.237	.095	.575	.085
56	-.147	.079	-.005	-.377
57	.323	.120	.650	.105
58	-.104	.072	.021	-.326
59	.308	.119	.616	.075
60	-.227	.140	-.001	-1.001
61	.188	.120	.507	-.160
62	-.167	.098	-.011	-.558
63	.279	.106	.655	.064
64	-.130	.075	-.004	-.448
65	.294	.109	.640	.091
66	-.136	.080	.004	-.418
67	.301	.107	.625	.081
68	.032	.053	.145	-.070
69	.034	.057	.174	-.088
88	-.038	.063	.078	-.140
89	-.028	.070	.115	-.176
90	-.017	.065	.137	-.147
91	.006	.059	.137	-.087
92				
93	-.001	.055	.111	-.102
94	-.019	.066	.108	-.176

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 180 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.34 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.006	.057	.106	-.145
102	.008	.059	.131	-.145
103	.033	.055	.124	-.112
104	.028	.056	.120	-.123
105	-.003	.056	.108	-.118
106	.020	.055	.130	-.090
107	.177	.087	.435	.001
108	.121	.088	.404	-.054
109	.238	.108	.612	-.061
110	.259	.098	.660	.098
111	.187	.115	.586	-.027
112	.184	.110	.655	-.044
113	-.165	.097	.059	-.463
114	-.210	.120	.116	-.687
115	.032	.140	.399	-.278
116	.031	.109	.348	-.205
117	.098	.093	.331	-.171
118	.107	.093	.330	-.157
119	.048	.054	.158	-.049
120	.115	.067	.294	-.051
121	-.017	.071	.113	-.214
122	.008	.065	.124	-.165
123	.242	.104	.572	.067
124	.213	.090	.534	.059
125	.039	.049	.135	-.037
126	.043	.050	.138	-.037
127	.032	.054	.134	-.072
128	.033	.055	.131	-.071
129	.077	.060	.209	-.048
130	.063	.055	.171	-.036
131	.005	.059	.150	-.101
132	.027	.057	.165	-.070
133	.076	.084	.314	-.102
134	.084	.074	.332	-.089
135	.086	.088	.355	-.080
136	.050	.077	.348	-.086
137	.030	.060	.173	-.074

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
 BAROMETRIC PRESS 24.76 IN HG VELOCITY 61.08 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.007	.054	.128	-.086
2	-.001	.052	.106	-.087
3	-.035	.063	.104	-.181
4	-.003	.052	.107	-.086
5	.034	.056	.157	-.069
6	.006	.051	.076	-.086
7	-.001	.051	.116	-.080
8	-.032	.061	.071	-.196
9	.042	.058	.250	-.078
10	-.050	.060	.070	-.166
11	-.013	.063	.124	-.173
12	.031	.050	.131	-.080
13	-.044	.061	.077	-.163
14	.036	.057	.158	-.083
15	.004	.054	.117	-.136
16	.014	.051	.120	-.083
17	.011	.057	.143	-.116
18	.015	.063	.135	-.187
19	.027	.063	.206	-.128
20	-.081	.070	.072	-.346
21	.049	.058	.165	-.087
22	-.027	.062	.085	-.297
23	-.013	.066	.107	-.194
24	-.078	.070	.072	-.264
25	-.019	.087	.123	-.274
26	-.025	.053	.062	-.128
27	-.091	.071	.033	-.290
28	.034	.069	.220	-.109
29	-.025	.058	.095	-.162
30	-.071	.076	.099	-.360
31	.053	.062	.183	-.096
32	.035	.077	.228	-.133
33	-.118	.072	.029	-.378
34	-.152	.095	.072	-.440
35	-.005	.083	.245	-.228
36	-.210	.084	-.028	-.459
37	.141	.076	.355	-.012
38	-.214	.085	-.037	-.484

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.76 IN HG VELOCITY 61.08 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	.129	.075	.319	-.024
40	-.243	.087	.137	-.532
41	.116	.069	.292	-.033
42	-.204	.111	.255	-.530
43	.102	.071	.277	-.056
44	-.257	.098	-.055	-.611
45	.259	.091	.575	.077
46	-.240	.100	.008	-.548
47	.243	.087	.521	.083
48	-.220	.082	-.071	-.457
49	.254	.101	.590	.023
50	-.251	.091	-.084	-.577
51	.267	.097	.584	.047
52	-.282	.106	-.036	-.600
53	.250	.086	.547	.043
54	-.304	.114	-.055	-.648
55	.194	.081	.455	.006
56	-.268	.089	-.096	-.490
57	.300	.118	.723	.067
58	-.235	.100	-.029	-.601
59	.272	.113	.657	.018
60	-.281	.125	-.067	-.858
61	.294	.113	.661	.035
62	-.250	.096	-.073	-.627
63	.304	.112	.640	.089
64	-.308	.137	-.085	-.982
65	.264	.120	.599	-.122
66	-.324	.207	.417	-.953
67	.248	.142	.599	-.572
68	.086	.061	.419	-.008
69	.103	.060	.228	-.035
88				
89	-.128	.071	-.005	-.313
90	-.056	.062	.052	-.241
91	-.054	.054	.035	-.151
92	-.093	.061	.025	-.238
93	-.060	.052	.035	-.155
94	-.073	.056	.038	-.196

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.76 IN HG VELOCITY 61.08 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.025	.056	.065	-.163
102	-.010	.056	.085	-.138
103	.100	.054	.229	-.011
104	.095	.055	.233	-.013
105	.048	.063	.191	-.074
106	.064	.062	.208	-.056
107	.127	.073	.403	-.015
108	.090	.072	.286	-.100
109	.179	.098	.510	-.010
110	.206	.093	.463	-.009
111	.257	.111	.623	.008
112	.254	.097	.581	-.087
113	.095	.124	.338	-.340
114	.125	.148	.462	-.410
115	.204	.097	.533	-.053
116	.217	.097	.549	.012
117	.189	.089	.551	.018
118	.192	.089	.449	-.008
119	.080	.056	.200	-.012
120	.175	.074	.441	.041
121	-.114	.072	.029	-.304
122	-.049	.066	.065	-.224
123	.225	.092	.534	.054
124	.209	.079	.445	.042
125	.067	.051	.175	-.018
126	.072	.051	.178	-.010
127	.081	.057	.194	-.019
128	.070	.057	.221	-.045
129	.126	.068	.318	-.006
130	.124	.067	.294	.007
131	-.058	.057	.040	-.176
132	-.048	.058	.062	-.176
133	-.042	.061	.121	-.147
134	-.018	.062	.141	-.144
135	-.052	.074	.191	-.184
136	-.056	.070	.106	-.193
137	.043	.067	.183	-.117

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 225 TEMPERATURE 75.00 DEGREES F
BAROMETRIC PRESS 24.76 IN HG VELOCITY 60.74 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.067	.055	.058	-.176
2	-.067	.052	.026	-.167
3	-.184	.067	-.032	-.346
4	-.064	.056	.051	-.157
5	.017	.070	.223	-.103
6	-.041	.052	.066	-.128
7	-.065	.059	.094	-.277
8	-.197	.079	-.032	-.443
9	-.009	.066	.198	-.144
10	-.072	.058	.041	-.207
11	-.128	.070	.004	-.300
12	.020	.059	.139	-.100
13	-.109	.101	.159	-.414
14	-.027	.057	.101	-.206
15	-.167	.079	.012	-.370
16	.004	.064	.187	-.207
17	-.066	.055	.038	-.291
18	-.154	.090	-.009	-.509
19	-.023	.073	.217	-.203
20	-.117	.059	-.003	-.262
21	.010	.058	.124	-.116
22	-.149	.066	-.037	-.337
23	.037	.082	.201	-.112
24	-.216	.097	.071	-.450
25	.055	.068	.153	-.148
26	-.080	.055	.012	-.206
27	-.260	.108	-.070	-.668
28	-.013	.067	.168	-.189
29	-.067	.059	.042	-.195
30	-.230	.105	-.026	-.559
31	.077	.064	.202	-.066
32	-.024	.080	.194	-.278
33	-.046	.060	.075	-.240
34	-.168	.078	-.024	-.528
35	.022	.090	.375	-.221
36	-.182	.075	-.034	-.433
37	.167	.074	.387	.038
38	-.277	.087	-.079	-.522

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 225 TEMPERATURE 75.00 DEGREES F
BAROMETRIC PRESS 24.76 IN HG VELOCITY 60.74 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	.146	.070	.344	.007
40	-.143	.079	.083	-.354
41	.110	.063	.270	-.017
42	-.013	.109	.268	-.322
43	.087	.062	.238	-.045
44	-.248	.087	-.040	-.494
45	.242	.089	.477	.038
46	-.082	.092	.128	-.374
47	.169	.084	.393	-.129
48	-.301	.103	-.121	-.631
49	.275	.104	.644	.075
50	-.367	.166	.532	-.905
51	.243	.148	.591	-.584
52	-.264	.141	.422	-.633
53	.179	.073	.360	-.024
54	-.138	.130	.325	-.464
55	.081	.072	.230	-.118
56	-.277	.082	-.121	-.490
57	.249	.094	.514	.065
58	-.198	.101	.069	-.497
59	.158	.116	.432	-.160
60	-.292	.089	-.111	-.528
61	.290	.107	.598	-.131
62	-.503	.176	.317	-1.135
63	.261	.103	.538	-.464
64	-.394	.265	.251	-1.497
65	.167	.111	.461	-.146
66	-.034	.134	.326	-.958
67	.086	.100	.384	-.147
68	.081	.055	.171	-.051
69	.111	.054	.230	.030
88				
89	-.127	.084	.030	-.332
90	-.068	.061	.046	-.218
91	-.078	.058	.029	-.187
92	-.126	.061	-.001	-.270
93	-.083	.053	.002	-.185
94	-.083	.057	.016	-.209

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 225 TEMPERATURE 75.00 DEGREES F
 BAROMETRIC PRESS 24.76 IN HG VELOCITY 60.74 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.035	.059	.077	-.186
102	-.023	.061	.094	-.192
103	.105	.055	.238	0.000
104	.100	.056	.246	-.013
105	.078	.058	.187	-.043
106	.088	.060	.215	-.029
107	.067	.062	.218	-.094
108	.067	.062	.200	-.036
109	.002	.079	.209	-.167
110	.012	.085	.216	-.179
111	.083	.122	.505	-.176
112				
113	.219	.097	.562	.048
114	.240	.095	.605	.083
115	.223	.096	.554	.026
116	.234	.096	.561	.073
117	.194	.123	.470	-.466
118	.198	.084	.449	.012
119	.105	.065	.359	-.032
120	.185	.073	.373	.050
121	-.099	.067	.032	-.254
122	-.041	.060	.061	-.175
123	.136	.069	.303	.034
124	.131	.065	.318	.034
125	.071	.050	.158	-.023
126	.075	.050	.161	-.018
127	.112	.057	.218	.009
128	.105	.058	.240	-.005
129	.071	.066	.252	-.568
130	.095	.068	.353	-.028
131	-.074	.056	.204	-.186
132	-.076	.053	.021	-.175
133	-.076	.063	.133	-.195
134	-.068	.053	.029	-.157
135	-.088	.054	.047	-.171
136	-.081	.060	.056	-.186
137	.056	.064	.181	-.096

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 247 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.23 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.140	.063	-.033	-.410
2	-.088	.049	-.010	-.165
3	-.254	.072	-.129	-.540
4	-.082	.052	.018	-.167
5	-.035	.064	.184	-.195
6	-.049	.059	.078	-.148
7	-.097	.063	.026	-.349
8	-.239	.079	-.082	-.512
9	-.026	.072	.213	-.172
10	-.113	.054	.018	-.240
11	-.185	.065	-.064	-.354
12	.035	.049	.130	-.056
13	-.052	.088	.210	-.271
14	-.074	.057	.024	-.230
15	-.262	.080	-.117	-.537
16	-.019	.074	.199	-.196
17	-.119	.056	-.018	-.293
18	-.277	.098	-.106	-.641
19	-.047	.074	.158	-.262
20	-.141	.055	-.043	-.259
21	.023	.052	.130	-.088
22	-.210	.075	-.067	-.434
23	.059	.053	.207	-.021
24	-.079	.110	.154	-.417
25	.054	.051	.148	-.039
26	-.103	.053	-.009	-.214
27	-.302	.104	-.085	-.663
28	-.062	.059	.093	-.181
29	-.097	.057	.029	-.252
30	-.307	.106	-.100	-.639
31	.077	.052	.174	-.021
32	-.072	.077	.239	-.245
33	-.071	.060	.054	-.224
34	-.237	.109	-.040	-.769
35	0.000	.087	.378	-.205
36	-.093	.055	-.003	-.208
37	.089	.072	.321	-.050
38	-.216	.089	-.057	-.470

DENVER CFNTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 247 TEMPERATURE 80.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.23 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	.063	.067	.240	-.129
40	-.076	.068	.062	-.260
41	.053	.064	.212	-.072
42	.033	.091	.317	-.183
43	.041	.062	.187	-.074
44	-.232	.092	-.039	-.464
45	.116	.095	.364	-.118
46	-.015	.079	.287	-.305
47	.049	.070	.231	-.097
48	-.166	.085	-.019	-.421
49	.204	.105	.519	-.011
50	-.259	.092	-.067	-.472
51	.157	.097	.392	-.109
52	-.122	.093	.045	-.446
53	.072	.080	.287	-.109
54	-.006	.122	.372	-.355
55	.024	.068	.204	-.142
56	-.209	.084	-.055	-.464
57	.148	.104	.385	-.107
58	-.049	.105	.165	-.362
59	.009	.085	.234	-.169
60	-.175	.087	-.015	-.518
61	.266	.129	.673	.022
62	-.575	.263	-.093	-1.736
63	.199	.106	.485	-.114
64	-.107	.100	.067	-.903
65	.035	.079	.213	-.172
66	.048	.127	.482	-.204
67	.021	.073	.192	-.181
68	.046	.055	.193	-.071
69	.061	.053	.171	-.043
88	-.051	.051	.038	-.153
89	-.053	.050	.032	-.170
90	-.039	.049	.041	-.148
91	-.028	.051	.083	-.141
92	-.089	.056	.013	-.216
93	-.083	.047	.012	-.170
94	-.048	.047	.045	-.129

DENVER CFNTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 247 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 61.23 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.088	.077	.036	-.359
102	-.067	.079	.084	-.337
103	.059	.056	.199	-.072
104	.070	.055	.192	-.040
105	.054	.053	.145	-.047
106	.082	.052	.180	-.009
107	.023	.056	.149	-.083
108	.023	.056	.146	-.081
109	-.090	.063	.015	-.226
110	-.011	.058	.100	-.185
111	-.106	.101	.133	-.431
112				
113	.273	.117	.633	.025
114	.267	.110	.598	.049
115	.243	.106	.543	.050
116	.241	.100	.502	.068
117	.078	.071	.281	-.066
118	.097	.071	.277	-.045
119	.068	.052	.155	-.017
120	.103	.060	.242	-.005
121	-.057	.050	.025	-.160
122	-.038	.048	.042	-.133
123	.053	.068	.203	-.071
124	.067	.069	.221	-.056
125	.041	.049	.132	-.031
126	.054	.049	.150	-.023
127	.054	.051	.162	-.018
128	.061	.051	.167	-.012
129	.002	.053	.119	-.092
130	.017	.059	.198	-.089
131	-.060	.045	.007	-.130
132	-.055	.046	.015	-.126
133	-.050	.048	.053	-.128
134	-.032	.048	.075	-.108
135	-.039	.051	.088	-.205
136	-.023	.055	.174	-.207
137	.017	.072	.159	-.190

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 270 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.75 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.362	.105	-.151	-.713
2	-.116	.064	.032	-.247
3	-.372	.082	-.202	-.606
4	-.083	.069	.054	-.242
5	.018	.088	.251	-.183
6	-.043	.065	.078	-.193
7	-.136	.071	.007	-.541
8	-.369	.096	-.162	-.706
9	-.016	.083	.215	-.253
10	-.171	.058	-.073	-.347
11	-.288	.078	-.098	-.495
12	.006	.049	.093	-.088
13	-.009	.065	.160	-.183
14	-.212	.081	-.029	-.436
15	-.401	.097	-.207	-.785
16	-.035	.070	.151	-.190
17	-.144	.061	-.011	-.314
18	-.316	.119	-.070	-.716
19	-.063	.070	.145	-.208
20	-.161	.067	-.059	-.386
21	-.023	.049	.087	-.115
22	-.276	.084	-.127	-.524
23	.002	.047	.083	-.082
24	-.030	.081	.208	-.209
25	.001	.050	.089	-.078
26	-.158	.064	-.053	-.307
27	-.427	.127	-.222	-.836
28	-.071	.062	.070	-.201
29	-.129	.060	-.019	-.285
30	-.390	.129	-.168	-.816
31	-.068	.065	.039	-.270
32	-.085	.079	.200	-.267
33	-.118	.061	.010	-.336
34	-.369	.132	-.127	-.812
35	-.024	.089	.270	-.255
36	-.120	.056	-.027	-.262
37	-.043	.057	.091	-.154
38	-.210	.088	-.070	-.528

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 270 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.75 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.056	.058	.065	-.158
40	-.227	.107	.017	-.520
41	-.048	.059	.067	-.165
42	.032	.115	.363	-.208
43	-.064	.061	.073	-.191
44	-.229	.110	-.051	-.596
45	-.051	.079	.273	-.224
46	.015	.123	.421	-.269
47	-.051	.069	.120	-.234
48	-.117	.062	-.007	-.298
49	-.048	.062	.125	-.206
50	-.201	.085	-.043	-.466
51	-.064	.073	.138	-.272
52	-.112	.077	.086	-.335
53	-.052	.077	.165	-.354
54	-.036	.103	.391	-.315
55	-.061	.069	.119	-.239
56	-.153	.069	-.033	-.343
57	-.045	.087	.239	-.422
58	.012	.101	.423	-.264
59	-.068	.079	.176	-.293
60	-.123	.067	.009	-.472
61	-.055	.070	.240	-.195
62	-.194	.097	-.011	-.638
63	-.058	.086	.194	-.365
64	-.077	.079	.121	-.428
65	-.049	.073	.175	-.255
66	-.088	.096	.261	-.392
67	-.034	.066	.106	-.194
68	-.010	.055	.111	-.123
69	-.026	.056	.093	-.187
88				
89	-.041	.049	.045	-.130
90	-.037	.048	.042	-.120
91	-.019	.051	.087	-.111
92	-.059	.049	.059	-.158
93	-.073	.047	.002	-.154
94	-.040	.048	.053	-.126

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 270 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.75 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.113	.088	.167	-.377
102	-.087	.086	.167	-.312
103	-.040	.064	.102	-.278
104	-.024	.054	.078	-.158
105	-.102	.062	.016	-.234
106	-.089	.060	.035	-.214
107	-.070	.061	.063	-.194
108	-.070	.056	.024	-.217
109	-.090	.071	.057	-.288
110	-.093	.067	.013	-.307
111	-.207	.098	.001	-.537
112	-.218	.100	.009	-.540
113	.265	.112	.598	.025
114	.227	.102	.511	.032
115	.236	.102	.495	.032
116	.205	.099	.485	-0.000
117	-.067	.056	.035	-.176
118	-.053	.056	.055	-.154
119	-.082	.055	.016	-.209
120	-.105	.061	.013	-.271
121	-.049	.051	.046	-.169
122	-.033	.050	.049	-.122
123	-.086	.055	.033	-.221
124	-.062	.055	.034	-.182
125	.020	.051	.111	-.139
126	.035	.048	.121	-.043
127	.018	.047	.099	-.058
128	.024	.047	.104	-.054
129	-.083	.052	.033	-.169
130	-.065	.051	.041	-.150
131	-.044	.046	.031	-.112
132	-.040	.046	.041	-.114
133	-.037	.048	.055	-.126
134	-.023	.049	.071	-.107
135	-.031	.053	.073	-.127
136	-.023	.054	.088	-.129
137	-.064	.058	.054	-.193

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 292 TEMPERATURE 78.00 DEGREES F
 BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.318	.112	-.047	-.911
2	-.099	.063	.043	-.210
3	-.343	.103	-.077	-.636
4	-.061	.067	.076	-.250
5	.108	.125	.495	-.149
6	-.024	.059	.097	-.178
7	-.119	.077	.101	-.457
8	-.304	.097	-.084	-.606
9	-.028	.075	.209	-.245
10	-.150	.064	-.033	-.723
11	-.241	.076	-.096	-.449
12	.004	.050	.079	-.085
13	-.005	.062	.171	-.155
14	-.200	.077	-.041	-.469
15	-.380	.100	-.195	-.692
16	-.045	.075	.124	-.400
17	-.137	.062	.003	-.291
18	-.336	.110	-.123	-.629
19	-.036	.085	.231	-.227
20	-.137	.063	-.022	-.323
21	-.003	.052	.094	-.123
22	-.244	.072	.007	-.410
23	-.001	.056	.099	-.312
24	.019	.076	.269	-.140
25	-.010	.047	.065	-.091
26	-.145	.058	-.048	-.292
27	-.355	.117	-.171	-.814
28	-.048	.059	.099	-.161
29	-.133	.058	-.025	-.302
30	-.403	.129	-.163	-.833
31	-.104	.055	-.017	-.264
32	-.062	.070	.119	-.229
33	-.109	.055	.014	-.256
34	-.313	.111	-.112	-.825
35	-.045	.076	.178	-.237
36	-.100	.050	-.022	-.183
37	-.075	.052	.018	-.177
38	-.166	.076	-.032	-.504

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 292 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.093	.052	.002	-.194
40	-.239	.097	-.094	-.637
41	-.085	.050	.003	-.185
42	.063	.098	.398	-.110
43	-.109	.055	.197	-.194
44	-.268	.102	-.062	-.660
45	-.096	.068	.190	-.198
46	.076	.109	.428	-.139
47	-.092	.066	.296	-.190
48	-.090	.052	-.002	-.277
49	-.075	.050	.006	-.170
50	-.207	.092	-.051	-.471
51	-.110	.052	-.025	-.211
52	-.152	.070	-.009	-.316
53	-.104	.052	-.010	-.202
54	.145	.130	.535	-.107
55	-.108	.052	-.016	-.202
56	-.205	.082	-.067	-.391
57	-.098	.053	.013	-.206
58	.120	.097	.387	-.069
59	-.096	.052	.013	-.197
60	-.099	.059	.002	-.320
61	-.076	.050	.010	-.167
62	-.168	.075	-.010	-.390
63	-.105	.052	-.008	-.203
64	-.123	.076	.015	-.386
65	-.081	.052	.054	-.172
66	-.048	.136	.327	-.405
67	-.062	.052	.045	-.159
68	-.027	.055	.073	-.147
69	-.042	.053	.057	-.167
88	-.057	.058	.060	-.170
89	-.044	.050	.078	-.128
90	-.040	.051	.080	-.143
91	-.027	.049	.094	-.099
92	-.052	.056	.064	-.166
93	-.052	.047	.034	-.126
94	-.038	.047	.037	-.117

DENVER CFNTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 292 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.61 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.012	.095	.219	-.357
102	.009	.088	.241	-.320
103	-.045	.066	.070	-.353
104	-.042	.051	.055	-.161
105	-.139	.059	-.024	-.267
106	-.125	.058	-.025	-.267
107	-.115	.052	-.020	-.239
108	-.095	.051	-.016	-.210
109	-.116	.068	.011	-.277
110	-.096	.059	.022	-.228
111	-.134	.069	-.004	-.386
112				
113	.183	.120	.457	-.110
114	.160	.092	.429	-.045
115	.160	.104	.405	-.075
116	.136	.086	.353	-.076
117	-.082	.050	.002	-.177
118	-.068	.050	.019	-.159
119	-.107	.052	-.022	-.221
120	-.127	.060	-.026	-.264
121	-.050	.048	.026	-.142
122	-.036	.048	.041	-.115
123	-.084	.049	-.007	-.166
124	-.067	.049	.011	-.143
125	.016	.049	.113	-.075
126	.031	.049	.126	-.059
127	.009	.048	.097	-.093
128	.019	.047	.104	-.081
129	-.072	.052	.026	-.185
130	-.059	.053	.050	-.194
131	-.039	.048	.037	-.104
132	-.035	.048	.049	-.107
133	-.035	.051	.060	-.145
134	-.021	.050	.082	-.136
135	-.032	.059	.099	-.313
136	-.033	.063	.112	-.213
137	-.089	.056	.011	-.204

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 315 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.66 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.266	.093	-.051	-.649
2	.189	.088	.397	-.126
3	-.376	.137	-0.000	-.975
4	.146	.095	.362	-.121
5	-.070	.148	.290	-.649
6	-.003	.097	.297	-.232
7	-.082	.066	.067	-.264
8	-.270	.105	-.022	-.583
9	.040	.075	.240	-.179
10	-.113	.060	-.015	-.295
11	-.205	.069	-.070	-.378
12	.067	.057	.187	-.024
13	.070	.069	.234	-.094
14	-.241	.091	-.068	-.543
15	-.410	.127	-.125	-.798
16	-.088	.130	.161	-.595
17	-.090	.060	.015	-.292
18	-.100	.063	.018	-.293
19	-.039	.058	.117	-.164
20	-.075	.053	.021	-.200
21	.023	.047	.100	-.054
22	-.114	.064	-.016	-.284
23	.029	.046	.110	-.052
24	.001	.057	.177	-.118
25	.006	.048	.085	-.072
26	-.073	.055	.021	-.200
27	-.179	.102	-.013	-.573
28	-.008	.062	.149	-.162
29	-.072	.054	.014	-.216
30	-.217	.105	-.052	-.584
31	-.083	.050	.004	-.177
32	-.017	.078	.217	-.245
33	-.081	.054	.006	-.187
34	-.264	.090	-.083	-.510
35	-.023	.067	.164	-.174
36	-.067	.049	.017	-.162
37	-.078	.047	.001	-.151
38	-.131	.065	-.025	-.373

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 315 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.66 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.093	.047	-.009	-.166
40	-.111	.066	.065	-.301
41	-.086	.050	.016	-.174
42	.033	.087	.449	-.123
43	-.108	.050	-.005	-.200
44	-.158	.075	.010	-.353
45	-.082	.047	-.006	-.167
46	.075	.124	.590	-.197
47	-.075	.046	.002	-.157
48	-.060	.047	.013	-.179
49	-.063	.047	.017	-.175
50	-.134	.072	-.021	-.359
51	-.092	.048	-.020	-.214
52	-.070	.060	.110	-.194
53	-.072	.049	.003	-.163
54	.074	.106	.517	-.108
55	-.083	.049	-0.000	-.171
56	-.097	.062	.048	-.275
57	-.067	.054	.103	-.141
58	.120	.114	.429	-.148
59	-.075	.063	.469	-.164
60	-.067	.049	.019	-.155
61	-.053	.046	.021	-.137
62	-.117	.060	-.020	-.276
63	-.081	.048	-.002	-.174
64	-.153	.085	-.007	-.479
65	-.064	.047	.021	-.141
66	-.078	.111	.207	-.566
67	-.042	.047	.029	-.125
68	-.014	.051	.089	-.123
69	-.033	.052	.061	-.145
88	-.036	.058	.076	-.172
89	-.050	.053	.052	-.172
90	-.056	.054	.076	-.176
91	-.017	.048	.076	-.106
92	-.048	.052	.039	-.175
93	-.034	.048	.044	-.109
94	-.036	.049	.049	-.113

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 315 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.75 IN HG VELOCITY 60.66 FPS

PRESSURE TAP NUMBRER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	.084	.071	.245	-.144
102	.096	.073	.282	-.121
103	-.015	.058	.109	-.160
104	-.041	.052	.055	-.159
105	-.103	.058	.018	-.223
106	-.115	.054	-.006	-.224
107	-.095	.048	.010	-.185
108	-.073	.046	.002	-.157
109	-.084	.054	.025	-.184
110	-.063	.050	.053	-.156
111	-.097	.056	.042	-.213
112	-.094	.056	.045	-.218
113	.052	.093	.370	-.126
114	.049	.075	.254	-.114
115	.006	.080	.279	-.171
116	.040	.076	.271	-.113
117	-.076	.047	.002	-.198
118	-.062	.046	.011	-.172
119	-.102	.051	-.013	-.223
120	-.112	.052	-.019	-.234
121	-.048	.050	.026	-.147
122	-.035	.049	.042	-.123
123	-.063	.046	.015	-.135
124	-.058	.047	.023	-.133
125	.005	.058	.130	-.159
126	.021	.055	.130	-.131
127	.049	.047	.140	-.024
128	.056	.047	.153	-.020
129	-.069	.048	.017	-.163
130	-.055	.049	.037	-.144
131	-.035	.046	.041	-.106
132	-.031	.046	.057	-.104
133	-.030	.047	.050	-.109
134	-.016	.047	.072	-.099
135	-.016	.048	.077	-.099
136	-.010	.049	.085	-.098
137	-.092	.050	-.007	-.190

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 3

WIND DIRECTION 337 TEMPERATURE 83.00 DEGREES F
 BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.32 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.369	.170	-.030	-1.100
2	.180	.080	.406	-.195
3	-.291	.118	-.054	-.700
4	.131	.082	.316	-.273
5	-.206	.161	.166	-.775
6	.061	.105	.277	-.575
7	-.059	.075	.211	-.265
8	-.073	.075	.074	-.333
9	-.012	.071	.162	-.182
10	-.028	.054	.075	-.163
11	-.062	.066	.073	-.213
12	.123	.064	.272	.002
13	.031	.067	.230	-.089
14	-.090	.070	.050	-.282
15	-.100	.091	.075	-.439
16	.019	.081	.242	-.186
17	-.027	.054	.081	-.207
18	.009	.064	.125	-.221
19	.025	.060	.176	-.143
20	-.009	.051	.074	-.120
21	.050	.051	.137	-.033
22	-.022	.055	.091	-.138
23	.049	.049	.127	-.038
24	.048	.063	.180	-.056
25	-.003	.048	.091	-.086
26	-.012	.053	.102	-.124
27	-.018	.055	.077	-.155
28	.016	.051	.157	-.069
29	-.022	.055	.067	-.154
30	-.044	.065	.061	-.204
31	-.049	.054	.038	-.145
32	.029	.057	.161	-.088
33	-.008	.053	.120	-.119
34	-.033	.063	.094	-.224
35	.021	.061	.168	-.147
36	.005	.052	.126	-.089
37	-.053	.049	.024	-.153
38	-.020	.063	.090	-.242

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 337 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.32 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
39	-.056	.049	.019	-.148
40	-0.000	.074	.176	-.217
41	-.062	.048	.008	-.138
42	.064	.087	.392	-.098
43	-.069	.056	.187	-.161
44	-.022	.079	.198	-.265
45	-.055	.048	.030	-.133
46	.090	.099	.464	-.092
47	-.039	.046	.039	-.106
48	.002	.049	.086	-.081
49	-.039	.047	.026	-.113
50	-.041	.063	.082	-.237
51	-.054	.048	.012	-.124
52	.010	.069	.243	-.144
53	-.052	.049	.031	-.144
54	.084	.091	.406	-.079
55	-.049	.048	.036	-.147
56	.010	.067	.180	-.140
57	-.041	.049	.048	-.137
58	.114	.098	.401	-.046
59	-.038	.048	.047	-.128
60	-.017	.049	.066	-.128
61	-.028	.047	.048	-.104
62	-.066	.061	.030	-.218
63	-.043	.049	.031	-.126
64	-.099	.075	.041	-.320
65	-.044	.046	.017	-.124
66	-.067	.084	.113	-.344
67	-.010	.045	.058	-.084
68	-0.000	.046	.083	-.075
69	-.015	.048	.070	-.085
88	-.019	.048	.067	-.104
89	-.026	.047	.041	-.104
90	-.013	.048	.063	-.095
91	-.011	.048	.067	-.086
92	-.015	.052	.080	-.105
93	-.016	.047	.065	-.086
94	-.006	.048	.076	-.079

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 3

WIND DIRECTION 337 TEMPERATURE 83.00 DEGREES F
BAROMETRIC PRESS 24.69 IN HG VELOCITY 61.32 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
101	-.011	.059	.129	-.170
102	.017	.057	.140	-.145
103	0.000	.047	.116	-.079
104	-.005	.048	.112	-.150
105	-.063	.052	.053	-.157
106	-.055	.052	.040	-.143
107	-.060	.048	.012	-.145
108	-.053	.049	.021	-.127
109	-.043	.052	.048	-.161
110	-.028	.049	.043	-.104
111	-.043	.049	.036	-.126
112	-.041	.050	.036	-.146
113	-.003	.065	.184	-.162
114	.013	.060	.214	-.128
115	-.021	.057	.170	-.136
116	.004	.061	.169	-.153
117	-.051	.047	.016	-.121
118	-.033	.046	.036	-.107
119	-.079	.050	.004	-.170
120	-.095	.053	-.004	-.186
121	-.030	.047	.059	-.120
122	-.011	.047	.077	-.096
123	-.030	.045	.038	-.103
124	-.030	.046	.038	-.104
125	-.054	.067	.098	-.227
126	-.031	.068	.125	-.178
127	.072	.053	.159	-.025
128	.075	.054	.175	-.016
129	-.030	.051	.044	-.266
130	-.010	.047	.060	-.079
131	-.013	.046	.061	-.073
132	-.016	.047	.066	-.089
133	-.019	.046	.053	-.092
134	-.002	.046	.066	-.068
135	-.015	.046	.055	-.090
136	-.022	.049	.052	-.155
137	-.063	.053	.022	-.172

TABLE IX (Cont.)
Pressure Coefficients
Phase IV

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 0 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.04 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.434	.203	-.089	-1.085
2	.072	.087	.270	-.342
3	-.410	.149	-.089	-.843
4	.042	.080	.235	-.278
5	-.375	.153	.024	-.901
6	-.001	.079	.157	-.340
7	-.055	.061	.062	-.225
8	-.074	.064	.086	-.261
9	-.081	.069	.103	-.263
10	-.022	.053	.081	-.126
11	-.035	.061	.073	-.208
12	.095	.059	.223	-.009
13	-.022	.063	.110	-.219
14	-.077	.077	.067	-.280
15	-.059	.086	.135	-.373
16	-.087	.111	.150	-.447
17	-.014	.058	.116	-.212
18	-.016	.058	.116	-.175
19	-.013	.061	.151	-.243
20	-.003	.052	.098	-.097
21	.045	.051	.162	-.040
22	-.004	.054	.103	-.151
23	.029	.047	.111	-.047
24	-.002	.054	.127	-.103
25	-.034	.049	.057	-.140
26	-.007	.051	.073	-.105
27	-.006	.053	.087	-.120
28	-.006	.051	.098	-.150
29	-.001	.051	.121	-.098
30	-.004	.054	.109	-.152
31	-.052	.047	.021	-.148
32	.004	.052	.132	-.121
33	.009	.051	.101	-.144
34	.009	.050	.119	-.100
35	.012	.051	.122	-.078
36	.016	.050	.105	-.081
37	-.035	.045	.043	-.098
38	.016	.053	.125	-.109
39	-.036	.046	.047	-.112
40	.017	.056	.159	-.092
41	-.037	.046	.029	-.122
42	.022	.057	.170	-.092
43	-.042	.047	.032	-.130
44	.016	.056	.160	-.101
45	-.028	.047	.053	-.100
46	.034	.064	.177	-.121

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 0 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.04 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.017	.045	.062	-.096
48	.012	.048	.090	-.070
49	-.020	.044	.051	-.081
50	.005	.049	.101	-.117
51	-.024	.045	.056	-.093
52	.011	.052	.189	-.063
53	-.023	.045	.049	-.092
54	.024	.058	.168	-.105
55	-.023	.045	.054	-.088
56	.018	.055	.169	-.073
57	-.021	.044	.048	-.086
58	.060	.063	.270	-.040
59	-.021	.044	.054	-.085
60	-.010	.044	.051	-.066
61	-.016	.044	.061	-.095
62	-.030	.047	.048	-.105
63	-.020	.044	.056	-.092
64	-.045	.051	.039	-.243
65	-.020	.044	.047	-.110
66	-.040	.053	.067	-.223
67	.005	.044	.066	-.081
68	-.025	.045	.058	-.103
69	-.029	.046	.048	-.134
70	-.028	.045	.040	-.096
71	-.026	.057	.081	-.189
72	-.030	.045	.040	-.094
73	-.032	.045	.048	-.105
74	-.027	.046	.056	-.100
75	-.028	.057	.100	-.230
76	-.030	.046	.047	-.106
77	-.035	.046	.043	-.118
78	-.031	.052	.079	-.119
79	-.031	.049	.066	-.113
80	-.027	.056	.146	-.133
81	-.039	.055	.063	-.349
82	-.036	.051	.067	-.134
83	-.032	.049	.079	-.136
84	-.028	.052	.090	-.149
85	-.038	.050	.119	-.125
86	-.025	.051	.098	-.117
87	-.035	.051	.119	-.118
88	-.039	.045	.027	-.105
89	-.039	.044	.029	-.105
90	-.037	.045	.038	-.109
91	-.033	.044	.031	-.098
92	-.022	.055	.119	-.138

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 0 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.04 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.026	.044	.037	-.094
94	-.037	.045	.031	-.112
95	-.050	.058	.078	-.213
96	-.028	.053	.093	-.152
97	-.035	.056	.100	-.141
98	-.034	.051	.074	-.193
99	.003	.061	.168	-.101
100	-.041	.049	.055	-.149
101	-.032	.049	.072	-.116
102	-.025	.049	.080	-.108
103	-.020	.045	.050	-.098
104	-.024	.046	.053	-.095
105	-.039	.047	.034	-.106
106	-.038	.047	.039	-.114
107	-.029	.046	.051	-.111
108	-.029	.046	.046	-.098
109	-.023	.046	.057	-.117
110	-.019	.046	.064	-.101
111	-.025	.048	.049	-.114
112	-.027	.048	.043	-.114
113	-.031	.054	.073	-.208
114	-.022	.051	.070	-.135
115	-.025	.049	.070	-.157
116	-.026	.050	.061	-.140
117	-.031	.045	.041	-.092
118	-.023	.045	.047	-.079
119	-.046	.048	.019	-.125
120	-.060	.049	.016	-.144
121	-.036	.044	.031	-.101
122	-.030	.044	.038	-.090
123	-.023	.045	.054	-.088
124	-.022	.045	.053	-.085
125	-.060	.057	.057	-.204
126	-.046	.055	.065	-.142
127	.053	.049	.136	-.033
128	.053	.050	.128	-.041
129	-.038	.044	.024	-.100
130	-.033	.044	.027	-.100
131	-.031	.043	.035	-.100
132	-.035	.044	.030	-.109
133	-.035	.044	.037	-.100
134	-.029	.045	.057	-.098
135	-.034	.046	.041	-.101
136	-.038	.046	.034	-.102
137	-.049	.049	.022	-.129

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 22 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.37 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.200	.168	.141	-.970
2	-.040	.118	.195	-.579
3	-.464	.186	-.013	-1.074
4	-.027	.118	.199	-.497
5	-.450	.127	-.036	-.773
6	-.004	.116	.204	-.635
7	-.114	.074	.125	-.370
8	-.141	.090	.025	-.586
9	-.131	.069	.013	-.365
10	-.018	.065	.143	-.181
11	-.105	.090	.082	-.359
12	.032	.058	.153	-.070
13	-.083	.068	.065	-.278
14	-.071	.079	.073	-.421
15	-.097	.080	.078	-.415
16	-.175	.115	.059	-.619
17	-.021	.082	.235	-.337
18	-.135	.092	.040	-.408
19	-.075	.060	.053	-.257
20	.003	.056	.109	-.107
21	.010	.050	.094	-.079
22	-.081	.066	.049	-.270
23	-.016	.048	.056	-.098
24	-.044	.052	.046	-.147
25	-.076	.048	.004	-.153
26	-.034	.061	.091	-.155
27	-.121	.071	.004	-.287
28	-.074	.054	.017	-.217
29	-.018	.061	.129	-.148
30	-.123	.076	.041	-.416
31	-.101	.051	-.010	-.199
32	-.049	.053	.047	-.165
33	.010	.057	.144	-.079
34	-.043	.061	.075	-.223
35	-.007	.057	.111	-.142
36	.035	.057	.170	-.061
37	-.097	.048	-.021	-.179
38	.047	.069	.194	-.101
39	-.103	.049	-.022	-.194
40	.048	.067	.233	-.104
41	-.104	.047	-.010	-.184
42	.030	.060	.161	-.101
43	-.114	.047	-.016	-.192
44	.067	.078	.365	-.101
45	-.098	.048	-.025	-.189
46	.052	.071	.248	-.077

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 22 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.37 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.086	.047	-.022	-.163
48	.007	.057	.160	-.081
49	-.084	.048	.005	-.151
50	.021	.062	.164	-.102
51	-.099	.049	-.011	-.184
52	.033	.063	.184	-.076
53	-.092	.048	-.018	-.179
54	.027	.062	.187	-.107
55	-.093	.047	-.025	-.168
56	.073	.076	.284	-.065
57	-.087	.048	-.013	-.183
58	.094	.080	.352	-.037
59	-.086	.048	-.011	-.166
60	-.078	.053	.042	-.173
61	-.080	.046	-.005	-.157
62	-.119	.056	-.041	-.240
63	-.084	.046	-.021	-.161
64	-.138	.061	-.041	-.294
65	-.084	.046	-.002	-.165
66	-.113	.054	-.022	-.243
67	-.059	.045	.021	-.131
68	-.069	.044	-.001	-.144
69	-.066	.048	.006	-.147
70	-.071	.047	-.001	-.146
71	-.133	.080	.034	-.393
72	-.070	.046	.002	-.140
73	-.076	.050	-.007	-.408
74	-.072	.044	-.008	-.140
75	-.093	.065	.055	-.335
76	-.074	.044	-.011	-.162
77	-.073	.044	-.009	-.142
78	-.070	.051	.059	-.159
79	-.068	.046	.006	-.144
80	-.064	.052	.042	-.172
81	-.073	.045	-.008	-.146
82	-.075	.049	-.001	-.182
83	-.069	.045	-.002	-.138
84	-.073	.051	.013	-.234
85	-.081	.048	-.011	-.179
86	-.075	.054	.017	-.194
87	-.087	.049	-.003	-.197
88	-.077	.046	-.003	-.153
89	-.073	.046	-.014	-.154
90	-.075	.047	-.009	-.166
91	-.069	.046	-.003	-.138
92	-.078	.057	.031	-.210

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 22 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.37 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.061	.045	.006	-.132
94	-.075	.048	-.002	-.153
95	-.091	.067	.033	-.290
96	-.037	.069	.142	-.197
97	-.064	.064	.125	-.207
98	-.091	.056	.025	-.234
99	-.015	.064	.212	-.165
100	-.096	.054	.750	-.184
101	-.075	.046	.002	-.142
102	-.070	.047	.012	-.137
103	-.058	.044	.019	-.128
104	-.062	.045	.016	-.133
105	-.086	.050	-.002	-.175
106	-.097	.050	-.018	-.190
107	-.097	.049	-.007	-.175
108	-.083	.048	.012	-.161
109	-.078	.049	.007	-.175
110	-.074	.047	.010	-.151
111	-.086	.047	-.013	-.166
112	-.090	.047	-.019	-.175
113	-.105	.054	-.005	-.284
114	-.098	.051	-.008	-.202
115	-.093	.049	-.010	-.199
116	-.098	.049	-.013	-.202
117	-.091	.047	-.005	-.166
118	-.085	.047	.001	-.153
119	-.109	.050	-.012	-.197
120	-.119	.051	-.027	-.207
121	-.074	.046	0.000	-.144
122	-.070	.046	0.000	-.137
123	-.088	.050	-.003	-.184
124	-.082	.050	-.009	-.167
125	-.083	.057	.026	-.193
126	-.079	.055	.030	-.189
127	.008	.048	.104	-.074
128	.005	.049	.098	-.086
129	-.069	.044	-.003	-.145
130	-.066	.044	.002	-.150
131	-.066	.045	.013	-.142
132	-.070	.045	.014	-.136
133	-.080	.045	-.004	-.154
134	-.074	.046	-.001	-.146
135	-.084	.047	-.004	-.168
136	-.089	.048	-.009	-.167
137	-.106	.049	-.033	-.187

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 45 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.36 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.134	.084	.035	-.523
2	-.029	.097	.176	-.413
3	-.210	.111	.193	-.577
4	.019	.101	.247	-.675
5	-.189	.111	.099	-.680
6	.017	.103	.333	-.449
7	-.107	.096	.231	-.309
8	-.164	.092	.107	-.404
9	-.135	.072	.093	-.337
10	.026	.086	.279	-.144
11	-.088	.083	.090	-.338
12	.031	.061	.160	-.090
13	-.109	.071	.069	-.248
14	-.031	.064	.109	-.192
15	-.101	.086	.183	-.354
16	-.176	.086	.055	-.458
17	-.030	.064	.166	-.171
18	-.149	.069	-.008	-.387
19	-.098	.054	.008	-.201
20	-.053	.051	.096	-.142
21	-.039	.047	.042	-.107
22	-.107	.056	-.029	-.303
23	-.049	.046	.029	-.118
24	-.048	.051	.053	-.131
25	-.078	.047	-.001	-.155
26	-.092	.062	.044	-.272
27	-.173	.069	-.035	-.383
28	-.110	.050	-.025	-.212
29	-.065	.062	.116	-.238
30	-.186	.075	-.068	-.439
31	-.119	.051	-.038	-.214
32	-.095	.050	-.010	-.251
33	-.021	.066	.175	-.159
34	-.147	.079	.002	-.457
35	-.068	.052	.021	-.246
36	.021	.073	.321	-.142
37	-.159	.049	-.072	-.248
38	-.098	.099	.061	-.457
39	-.162	.049	-.078	-.251
40	-.068	.066	.053	-.273
41	-.163	.051	-.060	-.259
42	-.053	.054	.073	-.170
43	-.179	.052	-.075	-.280
44	-.090	.096	.141	-.353
45	-.162	.051	-.075	-.264
46	-.048	.058	.103	-.213

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 45 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.36 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.148	.050	-.065	-.248
48	.024	.084	.267	-.135
49	-.154	.048	-.070	-.232
50	-.094	.077	.065	-.302
51	-.166	.048	-.079	-.240
52	-.091	.069	.021	-.301
53	-.159	.049	-.082	-.259
54	-.068	.053	.024	-.204
55	-.156	.049	-.082	-.241
56	-.064	.077	.102	-.321
57	-.151	.047	-.051	-.233
58	-.016	.061	.144	-.155
59	-.150	.048	-.052	-.242
60	-.098	.067	.095	-.224
61	-.148	.050	-.059	-.243
62	-.171	.054	-.084	-.303
63	-.150	.048	-.079	-.247
64	-.205	.069	-.098	-.460
65	-.146	.048	-.071	-.225
66	-.166	.057	-.060	-.340
67	-.118	.048	-.043	-.204
68	-.096	.048	-.008	-.178
69	-.065	.048	.044	-.153
70	-.101	.044	-.031	-.175
71	-.219	.070	-.072	-.446
72	-.098	.045	-.034	-.173
73	-.104	.048	-.031	-.195
74	-.107	.046	-.026	-.174
75	-.170	.074	-.041	-.370
76	-.107	.046	-.026	-.176
77	-.108	.047	-.027	-.188
78	-.113	.054	.004	-.246
79	-.103	.050	-.021	-.212
80	-.082	.058	.072	-.192
81	-.115	.047	-.031	-.181
82	-.131	.054	-.038	-.277
83	-.115	.047	-.038	-.189
84	-.130	.057	-.005	-.259
85	-.141	.051	-.053	-.231
86	-.134	.059	-.008	-.259
87	-.143	.051	-.053	-.242
88	-.137	.049	-.050	-.227
89	-.114	.049	-.025	-.189
90	-.129	.053	-.018	-.215
91	-.128	.052	-.035	-.227
92	-.108	.060	.030	-.240

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 45 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.49 IN HG VELOCITY 61.36 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.116	.056	-.021	-.257
94	-.109	.057	-.009	-.215
95	-.051	.067	.101	-.247
96	.031	.072	.195	-.129
97	.018	.079	.265	-.146
98	-.139	.059	-.033	-.277
99	.093	.108	.425	-.139
100				
101	-.120	.046	-.038	-.191
102	-.117	.047	-.036	-.190
103	-.067	.045	.001	-.131
104	-.068	.046	.002	-.140
105	-.122	.048	-.045	-.204
106	-.155	.049	-.070	-.241
107	-.161	.048	-.082	-.253
108	-.148	.050	-.065	-.287
109	-.121	.048	-.031	-.215
110	-.127	.050	-.019	-.225
111	-.116	.048	-.031	-.219
112	-.121	.048	-.034	-.203
113	-.117	.050	-.020	-.236
114	-.113	.048	-.019	-.204
115	-.103	.047	-.017	-.213
116	-.113	.048	-.021	-.206
117	-.155	.049	-.075	-.227
118	-.149	.049	-.059	-.225
119	-.186	.054	-.102	-.312
120	-.195	.052	-.106	-.281
121	-.115	.051	.002	-.207
122	-.110	.052	.002	-.210
123	-.188	.056	-.081	-.327
124	-.172	.057	-.075	-.315
125	-.119	.060	0.000	-.274
126	-.117	.061	-.001	-.292
127	-.034	.045	.044	-.103
128	-.038	.045	.036	-.110
129	-.087	.046	-.016	-.169
130	-.082	.046	-.008	-.162
131	-.099	.055	-.001	-.215
132	-.103	.058	.006	-.246
133	-.101	.055	.021	-.242
134	-.093	.058	.049	-.215
135	-.150	.059	-.044	-.299
136	-.156	.062	-.021	-.330
137	-.178	.051	-.094	-.284

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 67 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.069	.121	.219	-.664
2	-.050	.116	.206	-.618
3	-.273	.170	.179	-.867
4	-.050	.155	.263	-.739
5	-.232	.172	.183	-.863
6	-.060	.165	.309	-.616
7	-.028	.086	.302	-.187
8	-.215	.079	-.047	-.408
9	-.104	.067	.044	-.336
10	.042	.105	.413	-.142
11	-.169	.075	-.036	-.348
12	.011	.058	.129	-.091
13	-.088	.063	.053	-.310
14	-.038	.063	.102	-.296
15	-.182	.074	-.030	-.399
16	-.168	.066	-.035	-.374
17	-.025	.085	.218	-.196
18	-.175	.086	-.019	-.451
19	-.095	.054	.007	-.244
20	-.030	.069	.202	-.163
21	-.003	.050	.094	-.092
22	-.323	.142	-.061	-.851
23	-.028	.048	.045	-.094
24	-.098	.061	.003	-.344
25	-.058	.048	.026	-.137
26	-.017	.057	.124	-.119
27	-.424	.145	-.154	-.818
28	-.134	.062	-.010	-.291
29	-.042	.069	.181	-.234
30	-.434	.137	-.185	-.886
31	-.069	.047	.017	-.144
32	-.117	.057	.001	-.266
33	.036	.071	.216	-.137
34	-.463	.119	-.223	-.877
35	-.130	.059	-.008	-.291
36	.103	.075	.327	-.064
37	-.098	.051	.003	-.179
38	-.239	.078	-.070	-.437
39	-.104	.050	-.008	-.185
40	-.152	.076	-.003	-.357
41	-.102	.049	-.008	-.188
42	-.079	.061	.059	-.265
43	-.119	.050	-.023	-.206
44	-.250	.095	-.084	-.576
45	-.115	.051	-.028	-.219
46	-.067	.065	.074	-.261

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 67 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.110	.049	-.028	-.197
48	.119	.082	.357	-.036
49	-.088	.052	.013	-.175
50	-.124	.062	.021	-.276
51	-.108	.052	-.002	-.198
52	-.177	.071	-.047	-.380
53	-.118	.051	-.014	-.217
54	-.071	.065	.078	-.248
55	-.120	.051	-.019	-.213
56	-.157	.075	-.019	-.329
57	-.110	.049	-.025	-.194
58	-.033	.062	.127	-.168
59	-.117	.049	-.030	-.207
60	.002	.080	.199	-.179
61	-.085	.051	.016	-.181
62	-.113	.059	0.000	-.246
63	-.097	.050	-.001	-.179
64	-.181	.063	-.080	-.312
65	-.114	.050	-.025	-.215
66	-.124	.064	-.009	-.345
67	-.081	.049	.004	-.184
68	-.057	.045	.024	-.135
69	-.040	.050	.043	-.118
70	-.063	.045	.006	-.142
71	-.121	.069	.001	-.293
72	-.059	.044	.006	-.140
73	-.064	.050	.047	-.147
74	-.063	.046	.013	-.133
75	-.093	.064	.015	-.273
76	-.062	.045	.013	-.129
77	-.069	.047	.012	-.138
78	-.072	.048	.016	-.158
79	-.072	.047	.015	-.155
80	-.052	.052	.060	-.152
81	-.073	.046	-.001	-.151
82	-.078	.049	.001	-.190
83	-.077	.046	-.005	-.160
84	-.061	.051	.022	-.184
85	-.083	.046	-.013	-.161
86	-.067	.049	.033	-.147
87	-.087	.049	-.015	-.173
88	-.076	.046	-.009	-.155
89	-.062	.047	.015	-.143
90	-.057	.048	.015	-.153
91	-.077	.049	.012	-.159
92	-.039	.057	.058	-.235

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 67 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.65 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.075	.055	.032	-.259
94	-.071	.054	.038	-.181
95	-.004	.074	.175	-.223
96	-.054	.070	.140	-.252
97	.083	.084	.353	-.185
98	-.070	.061	.057	-.200
99	.172	.095	.467	-.036
100	-.066	.059	.040	-.191
101	-.075	.045	.017	-.141
102	-.066	.046	.027	-.138
103	-.049	.047	.042	-.124
104	-.046	.047	.050	-.127
105	-.077	.049	.033	-.151
106	-.096	.049	-.013	-.171
107	-.137	.050	-.052	-.228
108	-.100	.056	.030	-.213
109	-.119	.051	-.039	-.219
110	-.158	.059	-.045	-.276
111	-.109	.050	-.025	-.200
112	-.105	.049	-.026	-.189
113	-.099	.051	-.008	-.180
114	-.089	.049	.006	-.170
115	-.093	.050	-.003	-.170
116	-.085	.048	.003	-.156
117	-.093	.051	.001	-.182
118	-.084	.048	-.006	-.156
119	-.118	.052	-.027	-.212
120	-.111	.042	-.050	-.159
121	-.061	.049	.021	-.140
122	-.056	.049	.022	-.133
123	-.157	.063	-.043	-.295
124	-.100	.055	.030	-.208
125	-.064	.055	.042	-.194
126	-.060	.056	.054	-.216
127	-.012	.047	.073	-.090
128	-.009	.047	.070	-.091
129	-.056	.046	.009	-.128
130	-.050	.046	.019	-.117
131	-.065	.053	.018	-.180
132	-.066	.054	.027	-.185
133	-.026	.060	.129	-.152
134	-.021	.066	.123	-.182
135	-.079	.059	.039	-.222
136	-.085	.063	.045	-.246
137	-.099	.050	-.001	-.175

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.29 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.071	.096	.248	-.320
2	-.113	.067	.031	-.320
3	-.388	.138	-.076	-.969
4	-.027	.090	.177	-.313
5	-.303	.123	-.082	-.755
6	.070	.112	.347	-.289
7	-.079	.074	.157	-.258
8	-.340	.082	-.153	-.548
9	-.164	.059	-.062	-.289
10	-.012	.079	.250	-.157
11	-.395	.106	-.200	-.765
12	-.035	.060	.124	-.156
13	-.172	.063	-.044	-.384
14	-.076	.061	.133	-.182
15	-.308	.089	-.115	-.603
16	-.197	.064	-.077	-.417
17	-.026	.107	.428	-.261
18	-.418	.126	-.209	-.821
19	-.171	.063	-.061	-.450
20	-.024	.073	.215	-.156
21	-.049	.049	.036	-.143
22	-.396	.099	-.195	-.846
23	-.068	.048	.015	-.145
24	-.166	.058	-.069	-.330
25	-.086	.051	.030	-.188
26	-.062	.061	.137	-.175
27	-.418	.112	-.217	-.738
28	-.172	.056	-.062	-.310
29	-.061	.074	.239	-.235
30	-.385	.125	-.173	-1.001
31	-.068	.046	.008	-.145
32	-.159	.058	-.058	-.309
33	-.038	.078	.219	-.189
34	-.421	.134	-.167	-.884
35	-.170	.060	-.041	-.304
36	.021	.091	.298	-.134
37	-.074	.052	.030	-.160
38	-.279	.097	-.073	-.614
39	-.086	.053	.019	-.166
40	-.208	.073	-.090	-.427
41	-.073	.050	.032	-.148
42	-.140	.056	-.036	-.304
43	-.086	.051	.032	-.174
44	-.354	.122	-.142	-.771
45	-.083	.055	.030	-.175
46	-.133	.061	-.018	-.277

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.29 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.085	.054	.031	-.171
48	.072	.104	.481	-.154
49	-.077	.052	.053	-.182
50	-.205	.073	-.010	-.396
51	-.090	.053	.058	-.198
52	-.262	.085	-.103	-.493
53	-.084	.054	.058	-.215
54	-.138	.060	-.032	-.328
55	-.079	.058	.090	-.229
56	-.284	.096	-.081	-.545
57	-.092	.061	.058	-.243
58	-.122	.060	-.021	-.284
59	-.107	.061	.071	-.229
60	.056	.115	.477	-.161
61	-.076	.055	.035	-.180
62	-.114	.062	.045	-.266
63	-.093	.059	.044	-.274
64	-.207	.089	-.051	-.634
65	-.099	.059	.068	-.260
66	-.165	.084	-.011	-.674
67	-.048	.061	.141	-.149
68	-.087	.047	-.015	-.168
69	-.063	.044	.022	-.131
70	-.114	.043	-.042	-.175
71	-.121	.064	.083	-.276
72	-.110	.043	-.036	-.171
73	-.091	.045	-.016	-.168
74	-.121	.045	-.043	-.186
75	-.085	.060	.044	-.296
76	-.123	.045	-.048	-.186
77	-.105	.045	-.040	-.168
78	-.117	.051	-.007	-.233
79	-.128	.045	-.060	-.197
80	-.112	.046	-.035	-.190
81	-.108	.044	-.034	-.178
82	-.115	.046	-.035	-.195
83	-.126	.044	-.057	-.193
84	-.104	.049	-.017	-.208
85	-.119	.046	-.037	-.210
86	-.115	.050	-.025	-.237
87	-.142	.049	-.055	-.257
88	-.078	.047	.025	-.167
89	-.054	.045	.008	-.122
90	-.077	.046	-.008	-.153
91	-.075	.046	.009	-.151
92	-.053	.058	.065	-.289

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 90 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.29 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.051	.050	.044	-.151
94	-.071	.049	.010	-.168
95	-.071	.068	.106	-.224
96	-.071	.057	.049	-.213
97	-.038	.071	.169	-.214
98	-.064	.057	.044	-.324
99	-.035	.072	.178	-.211
100	-.064	.054	.043	-.181
101	-.107	.045	-.031	-.197
102	-.124	.045	-.042	-.217
103	-.093	.045	-.027	-.182
104	-.097	.046	-.029	-.193
105	-.052	.048	.030	-.122
106	-.071	.048	.012	-.143
107	-.093	.063	.099	-.221
108	-.029	.064	.130	-.155
109	-.143	.055	-.032	-.277
110	-.196	.066	-.090	-.396
111	-.165	.049	-.084	-.267
112	-.166	.048	-.097	-.260
113	-.147	.049	-.067	-.237
114	-.167	.048	-.087	-.254
115	-.167	.047	-.097	-.262
116	-.166	.047	-.095	-.253
117	-.071	.051	.056	-.170
118	-.087	.050	.042	-.189
119	-.071	.045	.032	-.147
120	-.071	.046	.037	-.154
121	-.055	.046	.025	-.130
122	-.071	.046	.005	-.142
123	-.068	.054	.026	-.191
124	-.060	.049	.032	-.151
125	-.092	.059	.029	-.241
126	-.111	.060	.009	-.289
127	-.063	.047	.017	-.137
128	-.064	.047	.013	-.142
129	-.054	.048	.013	-.136
130	-.071	.048	-.004	-.153
131	-.077	.052	.015	-.184
132	-.076	.052	.015	-.191
133	-.037	.054	.073	-.187
134	-.044	.058	.103	-.170
135	-.071	.052	.020	-.161
136	-.081	.052	.006	-.187
137	-.068	.048	.006	-.137

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.51 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.052	.078	.303	-.194
2	-.064	.050	.088	-.152
3	-.210	.073	-.072	-.426
4	-.074	.053	.055	-.258
5	-.164	.065	-.011	-.325
6	-.047	.066	.137	-.173
7	-.024	.063	.146	-.160
8	-.249	.073	-.116	-.416
9	-.099	.051	.001	-.232
10	-.008	.094	.247	-.410
11	-.295	.094	-.118	-.575
12	-.040	.051	.065	-.141
13	-.134	.067	-.026	-.350
14	-.068	.067	.252	-.216
15	-.210	.081	-.050	-.419
16	-.135	.060	-.031	-.314
17	.003	.096	.428	-.228
18	-.378	.118	-.183	-.723
19	-.153	.059	-.047	-.333
20	-.005	.090	.258	-.180
21	-.084	.051	.010	-.237
22	-.401	.115	-.164	-.798
23	-.045	.052	.059	-.140
24	-.222	.085	-.057	-.504
25	-.086	.062	.016	-.253
26	-.038	.068	.150	-.150
27	-.435	.113	-.239	-.745
28	-.177	.058	-.073	-.336
29	-.047	.073	.163	-.204
30	-.410	.117	-.199	-.861
31	-.042	.049	.040	-.125
32	-.165	.059	-.066	-.310
33	-.034	.076	.205	-.203
34	-.482	.117	-.265	-.892
35	-.195	.058	-.086	-.355
36	-.035	.084	.192	-.247
37	-.072	.067	.059	-.203
38	-.363	.101	-.169	-.762
39	-.085	.069	.060	-.247
40	-.298	.085	-.155	-.624
41	-.074	.067	.103	-.226
42	-.205	.068	-.070	-.565
43	-.032	.069	.157	-.239
44	-.472	.133	-.235	-.915
45	.094	.128	.527	-.203
46	-.209	.069	-.071	-.428

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.51 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.243	.131	.683	-.126
48	.003	.095	.333	-.217
49	-.101	.065	.029	-.261
50	-.289	.082	-.132	-.491
51	-.079	.076	.111	-.281
52	-.357	.089	-.199	-.601
53	.186	.132	.535	-.160
54	-.222	.079	-.085	-.494
55	.259	.129	.628	-.044
56	-.421	.110	-.194	-.812
57	.153	.122	.436	-.174
58	-.236	.080	-.096	-.509
59	.188	.101	.450	-.028
60	.081	.112	.415	-.121
61	-.104	.066	.039	-.273
62	-.181	.077	-.023	-.460
63	-.093	.102	.177	-.397
64	-.389	.119	-.150	-.893
65	.200	.108	.451	-.157
66	-.266	.087	-.069	-.592
67	.222	.099	.605	.030
68	-.035	.057	.117	-.152
69	-.187	.057	-.063	-.305
70	-.201	.063	-.083	-.382
71	-.088	.081	.165	-.329
72	-.119	.057	-.027	-.238
73	-.173	.061	-.039	-.311
74	-.161	.051	-.076	-.279
75	-.044	.061	.117	-.169
76	-.149	.050	-.055	-.287
77	-.132	.051	-.048	-.239
78	-.113	.047	-.029	-.190
79	-.145	.045	-.079	-.223
80	-.137	.048	-.063	-.242
81	-.130	.047	-.050	-.213
82	-.125	.048	-.028	-.220
83	-.151	.047	-.076	-.234
84	-.108	.051	-.001	-.230
85	-.147	.049	-.071	-.233
86	-.125	.054	-.007	-.239
87	-.178	.054	-.088	-.302
88	-.034	.049	.050	-.120
89	-.024	.049	.069	-.105
90	-.051	.051	.043	-.143
91	-.042	.051	.053	-.147
92	-.077	.073	.044	-.319

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 112 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.51 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.031	.054	.051	-.140
94	-.034	.053	.058	-.122
95	.008	.075	.290	-.169
96	-.019	.055	.096	-.156
97	-.002	.063	.168	-.166
98	-.015	.063	.117	-.225
99	-.017	.068	.199	-.165
100	.019	.060	.165	-.203
101	-.131	.046	-.063	-.211
102	-.146	.047	-.073	-.229
103	-.202	.053	-.123	-.318
104	-.202	.052	-.124	-.298
105	-.041	.051	.047	-.156
106	-.047	.052	.058	-.186
107	.200	.118	.580	-.044
108	.159	.108	.522	-.065
109	-.186	.100	.047	-.500
110	-.218	.110	.042	-.607
111	-.157	.050	-.062	-.246
112	-.152	.050	-.055	-.250
113	-.143	.048	-.061	-.230
114	-.173	.048	-.092	-.286
115	-.175	.048	-.097	-.276
116	-.182	.048	-.104	-.278
117	-.094	.061	.025	-.215
118	-.105	.062	.019	-.322
119	-.034	.050	.067	-.123
120	-.031	.053	.098	-.121
121	-.024	.050	.065	-.113
122	-.036	.049	.050	-.141
123	.018	.063	.207	-.088
124	.012	.059	.156	-.096
125	-.046	.045	.030	-.115
126	-.062	.045	.012	-.138
127	-.082	.045	-.013	-.151
128	-.084	.045	-.013	-.165
129	-.030	.047	.050	-.099
130	-.039	.048	.038	-.116
131	-.038	.053	.059	-.140
132	-.028	.054	.062	-.157
133	.031	.063	.204	-.104
134	.047	.070	.240	-.105
135	-.015	.058	.154	-.139
136	-.019	.056	.107	-.135
137	-.054	.063	.062	-.226

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 135 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.73 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.033	.078	.317	-.130
2	-.037	.047	.027	-.114
3	-.100	.057	-.012	-.247
4	-.038	.049	.055	-.120
5	-.066	.060	.053	-.224
6	-.027	.054	.113	-.129
7	.034	.068	.235	-.101
8	-.218	.081	-.093	-.511
9	-.072	.053	.012	-.211
10	-.034	.110	.258	-.433
11	-.301	.104	-.103	-.649
12	-.008	.054	.104	-.095
13	-.188	.082	-.037	-.396
14	-.045	.066	.144	-.226
15	-.220	.069	-.088	-.382
16	-.133	.063	-.011	-.340
17	.018	.082	.242	-.157
18	-.300	.110	-.124	-.731
19	-.121	.058	-.019	-.312
20	-.030	.089	.246	-.302
21	-.081	.063	.078	-.313
22	-.351	.100	-.169	-.702
23	-.039	.053	.096	-.147
24	-.229	.090	-.047	-.496
25	-.113	.083	.047	-.348
26	-.033	.065	.150	-.168
27	-.332	.090	-.155	-.560
28	-.158	.063	-.044	-.414
29	-.080	.070	.127	-.249
30	-.353	.116	-.116	-.776
31	-.019	.054	.080	-.146
32	-.174	.079	.010	-.478
33	-.012	.080	.221	-.262
34	-.473	.132	-.168	-.920
35	-.249	.078	-.096	-.514
36	-.255	.117	.103	-.629
37	-.055	.089	.178	-.312
38	-.443	.154	-.151	-1.038
39	-.074	.090	.142	-.321
40	-.361	.091	-.180	-.644
41	-.018	.084	.165	-.365
42	-.289	.086	-.089	-.722
43	.041	.082	.265	-.165
44	-.453	.114	-.201	-.792
45	.246	.111	.588	.008
46	-.320	.094	-.110	-.620

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 135 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.73 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.296	.121	.706	.075
48	-.140	.088	.099	-.436
49	-.101	.098	.149	-.390
50	-.261	.092	-.085	-.542
51	.132	.096	.408	-.172
52	-.399	.091	-.220	-.774
53	.266	.110	.661	.039
54	-.351	.092	-.149	-.718
55	.285	.119	.712	.041
56	-.417	.095	-.223	-.704
57	.250	.108	.554	.027
58	-.311	.079	-.120	-.575
59	.210	.111	.561	-.041
60	-.071	.096	.261	-.289
61	-.087	.090	.135	-.370
62	-.517	.234	-.117	-1.501
63	.167	.105	.465	-.268
64	-.390	.089	-.211	-.751
65	.252	.104	.554	.011
66	-.326	.089	-.113	-.637
67	.238	.111	.598	.045
68	.003	.063	.143	-.158
69	-.199	.055	-.110	-.338
70	-.230	.072	-.107	-.403
71	-.029	.089	.254	-.270
72	-.135	.061	-.004	-.288
73	-.202	.063	-.080	-.385
74	-.171	.055	-.067	-.291
75	-.037	.059	.091	-.149
76	-.097	.054	.008	-.255
77	-.132	.056	-.033	-.242
78	-.113	.051	-.006	-.233
79	-.136	.047	-.057	-.227
80	-.134	.051	-.037	-.237
81	-.129	.050	-.032	-.217
82	-.125	.057	.003	-.221
83	-.150	.050	-.057	-.242
84	-.118	.059	.047	-.227
85	-.144	.054	-.056	-.255
86	-.146	.059	-.006	-.290
87	-.170	.060	-.069	-.312
88	.002	.050	.088	-.084
89	.015	.050	.112	-.095
90	-.013	.053	.097	-.115
91	.003	.054	.111	-.092
92	-.026	.062	.107	-.256

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 135 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 60.73 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.017	.056	.099	-.133
94	.012	.060	.121	-.138
95	.093	.096	.443	-.084
96	.056	.059	.190	-.055
97	-.030	.069	.109	-.264
98	.004	.088	.221	-.371
99	-.033	.070	.131	-.204
100	.005	.080	.264	-.181
101	-.114	.050	-.020	-.234
102	-.130	.051	-.021	-.247
103	-.218	.060	-.123	-.363
104	-.221	.059	-.123	-.378
105	-.017	.053	.083	-.120
106	-.024	.053	.080	-.117
107	.221	.122	.597	-.025
108	.193	.118	.623	-.036
109	-.014	.121	.282	-.356
110	-.037	.133	.279	-.447
111	-.116	.062	.025	-.233
112	-.109	.062	.051	-.241
113	-.165	.052	-.073	-.278
114	-.194	.052	-.107	-.282
115	-.199	.052	-.115	-.314
116	-.204	.053	-.118	-.300
117	-.093	.084	.126	-.290
118	-.103	.082	.083	-.327
119	.001	.057	.142	-.123
120	.029	.068	.210	-.109
121	.001	.054	.084	-.096
122	-.009	.054	.077	-.105
123	.105	.081	.341	-.041
124	.097	.073	.315	-.034
125	-.016	.047	.061	-.089
126	-.033	.047	.054	-.116
127	-.063	.048	.018	-.133
128	-.063	.047	.021	-.135
129	.006	.050	.100	-.106
130	-.007	.051	.088	-.117
131	.002	.060	.135	-.198
132	.011	.064	.146	-.209
133	.144	.089	.413	-.019
134	.170	.095	.418	-.026
135	.024	.070	.298	-.093
136	.019	.069	.313	-.113
137	-.020	.072	.117	-.242

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.44 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.010	.055	.146	-.114
2	-.005	.050	.079	-.080
3	-.045	.052	.057	-.144
4	-.019	.048	.069	-.095
5	-.025	.054	.114	-.135
6	-.028	.052	.104	-.127
7	.025	.066	.192	-.112
8	-.101	.082	.060	-.362
9	-.025	.050	.059	-.139
10	-.071	.130	.149	-.705
11	-.195	.087	-.036	-.542
12	-.001	.055	.121	-.100
13	-.124	.072	.011	-.418
14	-.037	.060	.142	-.153
15	-.121	.067	-0.000	-.395
16	-.072	.053	.022	-.185
17	-.016	.065	.175	-.244
18	-.093	.063	.030	-.282
19	-.058	.052	.030	-.164
20	-.007	.091	.228	-.433
21	-.112	.099	.065	-.431
22	-.322	.105	-.115	-.675
23	-.018	.052	.089	-.122
24	-.227	.073	-.044	-.392
25	-.113	.089	.048	-.332
26	-.021	.061	.122	-.152
27	-.201	.093	.001	-.502
28	-.118	.060	-.012	-.296
29	-.026	.070	.172	-.203
30	-.224	.108	.020	-.564
31	-.003	.053	.106	-.126
32	-.148	.072	-0.000	-.368
33	-.153	.112	.213	-.600
34	-.237	.101	.077	-.531
35	-.198	.076	.001	-.427
36	-.236	.095	.018	-.556
37	.052	.089	.260	-.403
38	-.252	.111	.031	-.682
39	.037	.088	.256	-.305
40	-.273	.093	-.098	-.611
41	.069	.078	.295	-.112
42	-.243	.084	-.103	-.582
43	.087	.087	.472	-.132
44	-.307	.100	-.080	-.655
45	.243	.107	.569	.055
46	-.259	.088	-.066	-.523

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.44 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.263	.113	.644	.064
48	-.230	.098	-.060	-.568
49	.077	.123	.369	-.314
50	-.297	.109	-.056	-.772
51	.211	.096	.509	-.025
52	-.303	.092	-.080	-.570
53	.247	.108	.615	.034
54	-.256	.082	-.106	-.538
55	.245	.119	.648	.034
56	-.288	.085	-.111	-.620
57	.293	.133	.744	.028
58	-.225	.081	-.076	-.448
59	.261	.134	.697	.007
60	-.214	.131	.029	-.924
61	.054	.127	.412	-.241
62	-.348	.119	-.103	-.790
63	.236	.107	.511	-.077
64	-.263	.082	-.109	-.603
65	.260	.117	.612	-.029
66	-.234	.102	.335	-.502
67	.254	.133	.634	-.389
68	.026	.066	.341	-.097
69	-.115	.056	.005	-.231
70	-.148	.066	-.033	-.297
71	-.083	.081	.170	-.362
72	-.078	.059	.034	-.233
73	-.126	.060	-.038	-.260
74	-.101	.057	.029	-.223
75	-.083	.069	.143	-.246
76	-.101	.058	.037	-.234
77	-.102	.054	.006	-.205
78	-.075	.062	.088	-.255
79	-.067	.055	.076	-.170
80	-.094	.066	.458	-.362
81	-.072	.063	.107	-.273
82	-.073	.076	.147	-.288
83	-.067	.062	.100	-.280
84	-.082	.078	.199	-.307
85	-.070	.061	.054	-.222
86	-.086	.077	.154	-.438
87	-.069	.064	.063	-.222
88	.018	.051	.112	-.064
89	.014	.048	.107	-.062
90	.015	.050	.119	-.079
91	.012	.048	.098	-.069
92	-.043	.069	.117	-.254

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 157 TEMPERATURE 78.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.44 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	.003	.053	.142	-.118
94	.025	.053	.217	-.095
95	.074	.081	.304	-.079
96	.021	.057	.158	-.112
97	-.116	.075	.019	-.386
98	.018	.068	.181	-.217
99	-.086	.068	.069	-.315
100	.027	.072	.241	-.130
101	-.057	.053	.055	-.153
102	-.048	.054	.063	-.134
103	-.113	.056	-.021	-.249
104	-.117	.057	-.018	-.262
105	-.007	.054	.099	-.098
106	.011	.054	.127	-.093
107	.194	.113	.569	-.073
108	.169	.097	.493	-.054
109	.152	.128	.584	-.219
110	.162	.120	.536	-.234
111	.025	.097	.347	-.204
112	.028	.097	.356	-.240
113	-.204	.062	-.071	-.377
114	-.219	.066	-.115	-.396
115	-.208	.067	-.085	-.397
116	-.209	.067	-.089	-.363
117	.022	.103	.271	-.326
118	.036	.103	.271	-.352
119	.039	.054	.143	-.058
120	.101	.068	.282	-.050
121	.014	.049	.101	-.068
122	.143	.046	.210	.065
123	.174	.096	.484	.018
124	.152	.081	.370	.003
125	.003	.047	.077	-.077
126	.183	.044	.253	.110
127	-.021	.048	.072	-.098
128	-.028	.050	.073	-.111
129	.094	.047	.183	.012
130	.479	.040	.544	.425
131	.037	.052	.143	-.093
132	.017	.055	.139	-.144
133	.168	.061	.346	-.022
134	.497	.062	.584	.158
135	.095	.089	.522	-.030
136	.070	.078	.329	-.093
137	.028	.061	.174	-.197

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 180 TEMPERATURE 75.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.55 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	.009	.051	.087	-.092
2	-.010	.050	.073	-.104
3	-.009	.052	.095	-.098
4	-.021	.049	.061	-.103
5	-.003	.053	.111	-.102
6	-.029	.052	.089	-.113
7	-.022	.052	.075	-.158
8	-.016	.053	.099	-.195
9	.007	.051	.127	-.088
10	-.086	.089	.090	-.617
11	-.089	.079	.087	-.341
12	-.034	.065	.092	-.262
13	-.080	.068	.065	-.251
14	-.011	.060	.135	-.146
15	-.031	.056	.105	-.178
16	-.029	.052	.062	-.156
17	-.011	.060	.134	-.196
18	-.018	.058	.122	-.178
19	-.017	.056	.121	-.306
20	-.059	.071	.118	-.293
21	-.035	.071	.154	-.311
22	-.060	.077	.141	-.458
23	-.052	.067	.067	-.318
24	-.130	.074	.026	-.353
25	-.133	.080	.034	-.381
26	-.057	.065	.104	-.281
27	-.060	.070	.102	-.247
28	-.055	.067	.099	-.220
29	-.062	.069	.084	-.289
30	-.072	.077	.139	-.345
31	-.024	.055	.160	-.339
32	-.072	.069	.121	-.245
33	-.147	.090	.103	-.553
34	-.166	.088	.116	-.476
35	-.168	.075	.030	-.382
36	-.241	.101	.030	-.653
37	.083	.071	.280	-.110
38	-.220	.091	.017	-.662
39	.065	.071	.265	-.093
40	-.218	.076	-.062	-.449
41	.078	.075	.329	-.073
42	-.202	.079	-.042	-.528
43	.075	.082	.343	-.142
44	-.227	.090	-.017	-.667
45	.251	.106	.625	.051
46	-.222	.082	-.039	-.488

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 180 TEMPERATURE 75.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.55 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.255	.107	.632	.073
48	-.235	.090	-.036	-.684
49	.173	.096	.411	-.127
50	-.248	.099	-.041	-.687
51	.217	.094	.497	.025
52	-.223	.080	-.058	-.453
53	.234	.097	.524	.048
54	-.212	.076	-.050	-.458
55	.207	.098	.550	.014
56	-.219	.081	-.052	-.460
57	.282	.124	.663	.028
58	-.172	.071	-.024	-.394
59	.256	.119	.616	-.012
60	-.292	.141	-.020	-.933
61	.178	.118	.478	-.201
62	-.237	.092	-.063	-.662
63	.248	.112	.617	.036
64	-.202	.075	-.058	-.474
65	.281	.126	.679	.007
66	-.208	.085	-.037	-.625
67	.279	.121	.687	-.043
68	.011	.053	.099	-.085
69	.005	.049	.086	-.070
70	.004	.049	.089	-.082
71	-.057	.070	.135	-.256
72	.002	.048	.093	-.079
73	.006	.051	.087	-.092
74	.011	.051	.108	-.087
75	-.039	.069	.183	-.245
76	.007	.052	.140	-.103
77	.008	.049	.099	-.067
78	-.157	.095	.020	-.439
79	.068	.079	.329	-.067
80	-.098	.074	.042	-.347
81	.049	.075	.281	-.171
82	-.044	.100	.187	-.429
83	-.007	.066	.158	-.177
84	.003	.109	.309	-.351
85	-.016	.058	.106	-.213
86	-.059	.110	.257	-.400
87	-.014	.057	.106	-.152
88	-.057	.061	.061	-.180
89	-.058	.066	.077	-.178
90	-.066	.070	.080	-.243
91	-.035	.058	.073	-.145
92	-.080	.070	.042	-.264

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 180 TEMPERATURE 75.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 59.55 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.024	.052	.053	-.117
94	-.025	.059	.071	-.154
95	-.003	.075	.204	-.210
96	-.022	.061	.099	-.133
97	-.126	.061	.089	-.308
98	-.048	.067	.130	-.222
99	-.113	.056	.061	-.246
100	-.069	.058	.074	-.184
101	0.000	.051	.100	-.102
102	.006	.051	.115	-.093
103	.013	.050	.083	-.073
104	.009	.050	.085	-.079
105	-.018	.055	.092	-.107
106	-.001	.054	.115	-.087
107	.138	.096	.411	-.067
108	.084	.095	.334	-.137
109	.205	.120	.595	-.081
110	.221	.106	.579	-.011
111	.145	.119	.526	-.123
112	.141	.113	.577	-.091
113	-.236	.103	.040	-.650
114	-.300	.136	.053	-.828
115	-.029	.153	.390	-.387
116	-.029	.115	.286	-.294
117	.104	.086	.314	-.155
118	.109	.084	.323	-.133
119	.022	.052	.116	-.082
120	.109	.068	.304	-.009
121	-.047	.061	.072	-.189
122	-.026	.060	.095	-.156
123	.212	.105	.559	-.001
124	.183	.089	.448	-.002
125	.006	.051	.097	-.080
126	.008	.052	.099	-.080
127	-.002	.055	.128	-.090
128	-.003	.052	.104	-.100
129	.051	.059	.171	-.051
130	.029	.056	.140	-.070
131	-.015	.058	.085	-.124
132	-.019	.059	.092	-.131
133	-.011	.064	.196	-.119
134	-.008	.059	.176	-.115
135	-.047	.061	.154	-.156
136	-.059	.065	.167	-.182
137	.011	.062	.169	-.093

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 60.18 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.020	.055	.123	-.113
2	-.025	.049	.064	-.103
3	-.063	.059	.037	-.203
4	-.032	.049	.064	-.122
5	.017	.057	.177	-.099
6	-.018	.052	.083	-.126
7	-.027	.052	.080	-.120
8	-.066	.066	.052	-.221
9	.033	.054	.145	-.057
10	-.096	.064	.028	-.278
11	-.046	.069	.070	-.250
12	.015	.052	.132	-.092
13	-.074	.061	.045	-.291
14	.020	.058	.154	-.086
15	-.014	.055	.078	-.137
16	-.004	.053	.126	-.109
17	-.010	.057	.114	-.166
18	-.057	.065	.084	-.218
19	.016	.062	.152	-.113
20	-.099	.068	.033	-.281
21	.036	.060	.180	-.170
22	-.052	.059	.079	-.252
23	-.019	.069	.105	-.191
24	-.118	.073	.044	-.419
25	-.035	.080	.091	-.301
26	-.054	.052	.047	-.156
27	-.119	.072	.065	-.327
28	.006	.068	.225	-.130
29	-.056	.059	.043	-.288
30	-.122	.078	.017	-.397
31	.043	.060	.143	-.258
32	.011	.078	.248	-.193
33	-.146	.076	.055	-.414
34	-.185	.096	.031	-.491
35	-.034	.087	.204	-.280
36	-.254	.079	-.085	-.534
37	.133	.078	.368	-.011
38	-.268	.093	-.055	-.606
39	.121	.075	.343	-.026
40	-.293	.093	.024	-.577
41	.099	.069	.383	-.079
42	-.241	.111	.123	-.604
43	.083	.071	.381	-.093
44	-.281	.091	-.105	-.574
45	.243	.095	.584	.065
46	-.269	.099	-.002	-.590

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 60.18 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.224	.091	.506	.058
48	-.261	.083	-.096	-.483
49	.223	.098	.654	.026
50	-.246	.119	.369	-.612
51	.226	.122	.596	-.369
52	-.267	.134	.428	-.736
53	.226	.085	.471	.064
54	-.325	.115	-.056	-.839
55	.168	.083	.400	.006
56	-.285	.090	-.118	-.575
57	.260	.117	.607	.050
58	-.269	.096	-.069	-.528
59	.232	.107	.598	.033
60	-.377	.136	-.136	-.916
61	.274	.113	.606	.020
62	-.276	.089	-.104	-.544
63	.281	.112	.622	.063
64	-.332	.131	-.092	-.828
65	.249	.098	.501	.004
66	-.343	.174	.017	-1.146
67	.233	.097	.535	-.007
68	.083	.052	.180	-.004
69	.085	.058	.198	-.068
70	.065	.056	.178	-.064
71	-.005	.066	.126	-.188
72	.077	.058	.194	-.132
73	.078	.053	.179	-.007
74	.062	.057	.164	-.053
75	-.028	.063	.173	-.184
76	.062	.058	.173	-.062
77	.064	.055	.188	-.044
78	-.169	.083	.008	-.433
79	.210	.088	.442	.051
80	-.158	.077	-.006	-.398
81	.214	.093	.490	.030
82	-.145	.122	.295	-.516
83	.123	.083	.355	-.137
84	-.085	.148	.234	-.610
85	.054	.083	.220	-.266
86	-.146	.133	.262	-.602
87	.070	.073	.215	-.150
88	-.106	.072	.021	-.274
89	-.127	.084	.029	-.377
90	-.072	.075	.053	-.267
91	-.045	.064	.056	-.185
92	-.119	.064	.006	-.273

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 202 TEMPERATURE 77.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 60.18 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.036	.060	.096	-.215
94	-.061	.065	.079	-.232
95	-.055	.075	.138	-.260
96	-.068	.058	.101	-.177
97	-.159	.071	.152	-.455
98	-.132	.059	.011	-.268
99	-.150	.067	-.031	-.342
100	-.132	.054	-.026	-.268
101	.053	.055	.165	-.069
102	.059	.056	.177	-.069
103	.089	.053	.182	-.011
104	.087	.054	.182	-.023
105	.044	.061	.158	-.115
106	.058	.060	.175	-.091
107	.108	.072	.319	-.066
108	.070	.071	.268	-.107
109	.147	.102	.523	-.065
110	.170	.090	.491	-.011
111	.238	.124	.610	-.043
112	.234	.090	.476	.017
113	.048	.123	.303	-.396
114	.072	.144	.359	-.554
115	.163	.093	.492	-.056
116	.174	.092	.501	-.024
117	.150	.110	.443	-.441
118	.158	.085	.452	-.004
119	.065	.059	.298	-.032
120	.147	.074	.362	-.014
121	-.102	.078	.037	-.277
122	-.049	.071	.078	-.212
123	.198	.099	.539	-.002
124	.186	.087	.443	.039
125	.052	.048	.124	-.025
126	.053	.049	.128	-.028
127	.061	.055	.165	-.079
128	.066	.056	.163	-.064
129	.118	.065	.342	.008
130	.103	.069	.323	-.056
131	-.075	.063	.072	-.207
132	-.082	.064	.057	-.214
133	-.063	.056	.037	-.176
134	-.064	.056	.033	-.176
135	-.121	.050	-.034	-.213
136	-.137	.051	-.049	-.240
137	.046	.069	.204	-.115

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 225 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.114	.066	.186	-.250
2	-.104	.051	-.001	-.200
3	-.233	.070	-.041	-.391
4	-.105	.057	0.000	-.335
5	-.009	.074	.193	-.144
6	-.075	.056	.069	-.183
7	-.103	.056	.017	-.252
8	-.246	.088	-.007	-.556
9	-.032	.059	.132	-.170
10	-.125	.059	-.008	-.268
11	-.135	.065	-.001	-.279
12	-.022	.053	.080	-.117
13	-.155	.106	.082	-.419
14	-.039	.055	.066	-.216
15	-.152	.074	-.025	-.360
16	-.029	.066	.129	-.161
17	-.084	.053	.041	-.188
18	-.214	.086	-.062	-.596
19	-.040	.077	.223	-.238
20	-.148	.060	-.033	-.323
21	-.023	.060	.123	-.147
22	-.190	.068	-.069	-.393
23	.063	.081	.223	-.102
24	-.283	.099	.031	-.634
25	.029	.062	.149	-.147
26	-.110	.055	-.025	-.240
27	-.292	.109	-.105	-.650
28	-.031	.063	.169	-.170
29	-.090	.057	.017	-.220
30	-.254	.115	-.060	-.671
31	.095	.056	.199	-.012
32	-.059	.081	.205	-.326
33	-.072	.060	.148	-.223
34	-.201	.076	-.035	-.415
35	-.002	.089	.252	-.322
36	-.221	.076	.163	-.450
37	.153	.079	.380	-.018
38	-.312	.095	-.106	-.672
39	.135	.074	.350	-.035
40	-.173	.080	.063	-.455
41	.107	.064	.281	-.027
42	-.058	.117	.240	-.362
43	.087	.064	.253	-.047
44	-.285	.087	-.109	-.575
45	.217	.088	.458	.033
46	-.118	.096	.099	-.421

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 225 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.150	.082	.371	-.086
48	-.316	.091	-.134	-.597
49	.259	.104	.690	.056
50	-.395	.107	-.124	-.754
51	.240	.094	.601	.030
52	-.312	.097	-.103	-.615
53	.170	.076	.405	-.047
54	-.192	.126	.231	-.544
55	.083	.071	.287	-.098
56	-.318	.089	-.136	-.694
57	.215	.102	.528	-.030
58	-.218	.129	.468	-.583
59	.143	.126	.503	-.373
60	-.317	.131	.339	-.656
61	.264	.112	.602	.043
62	-.428	.145	-.158	-.873
63	.240	.101	.545	.048
64	-.465	.247	-.088	-1.473
65	.179	.091	.422	-.043
66	-.100	.151	.253	-.881
67	.104	.097	.354	-.140
68	.080	.057	.228	-.026
69	.101	.062	.199	-.183
70	.032	.066	.175	-.143
71	.010	.061	.155	-.140
72	.085	.057	.188	-.043
73	.089	.060	.211	-.297
74	.063	.062	.208	-.134
75	-.051	.067	.111	-.238
76	.054	.071	.209	-.196
77	.056	.072	.191	-.186
78	-.211	.095	-.025	-.528
79	.239	.089	.525	.077
80	-.213	.086	-.034	-.549
81	.229	.092	.506	.004
82	-.227	.107	.107	-.636
83	.150	.092	.373	-.241
84	-.240	.183	.168	-.972
85	.054	.101	.298	-.387
86	-.247	.150	.126	-.839
87	.074	.090	.297	-.241
88	-.083	.077	.074	-.262
89	-.080	.067	.033	-.272
90	-.059	.052	.034	-.174
91	-.052	.055	.065	-.148
92	-.115	.057	-.013	-.244

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 225 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.45 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.044	.053	.043	-.163
94	-.074	.053	.012	-.205
95	-.066	.067	.118	-.209
96	-.076	.053	.059	-.164
97	-.143	.055	-.047	-.256
98	-.123	.051	-.026	-.196
99	-.126	.052	-.034	-.233
100	-.116	.049	-.018	-.188
101	.022	.073	.171	-.354
102	.032	.069	.184	-.156
103	.101	.053	.208	.001
104	.104	.052	.204	.002
105	.091	.056	.200	.007
106	.106	.059	.260	-.019
107	.062	.061	.222	-.061
108	.069	.061	.228	-.038
109	-.011	.079	.184	-.217
110	.013	.083	.273	-.196
111	.070	.120	.399	-.207
112	.090	.118	.367	-.239
113	.213	.105	.619	-.001
114	.236	.103	.568	.048
115	.217	.099	.563	.001
116	.230	.100	.548	.038
117	.189	.089	.521	.013
118	.183	.083	.424	.021
119	.111	.059	.233	-.009
120	.182	.074	.405	.057
121	-.073	.059	.029	-.266
122	-.028	.053	.083	-.198
123	.115	.068	.311	-.007
124	.112	.063	.261	.007
125	.037	.093	.134	-.538
126	.052	.051	.143	-.028
127	.090	.058	.226	-.025
128	.087	.057	.213	-.019
129	.055	.059	.189	-.066
130	.066	.065	.266	-.066
131	-.096	.050	-.019	-.251
132	-.106	.050	-.020	-.240
133	-.085	.049	-.009	-.181
134	-.081	.049	0.000	-.168
135	-.093	.050	.030	-.172
136	-.108	.052	.039	-.189
137	.063	.067	.212	-.160

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 247 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.248	.071	-.103	-.544
2	-.151	.053	.015	-.233
3	-.351	.077	-.184	-.667
4	-.131	.055	-.010	-.228
5	-.083	.069	.138	-.225
6	-.096	.062	.073	-.197
7	-.150	.069	-.007	-.475
8	-.327	.092	-.158	-.669
9	-.061	.063	.143	-.188
10	-.177	.060	-.036	-.336
11	-.257	.071	-.123	-.490
12	.015	.054	.110	-.080
13	-.108	.100	.156	-.452
14	-.114	.060	.006	-.257
15	-.325	.079	-.167	-.569
16	-.048	.077	.181	-.217
17	-.155	.059	-.046	-.307
18	-.419	.124	-.191	-.841
19	-.084	.077	.138	-.269
20	-.189	.061	-.077	-.446
21	-.002	.054	.111	-.119
22	-.257	.077	-.110	-.543
23	.053	.057	.190	-.031
24	-.085	.111	.170	-.510
25	.034	.053	.134	-.062
26	-.140	.054	-.036	-.290
27	-.341	.104	-.170	-.772
28	-.075	.066	.202	-.191
29	-.139	.060	-.026	-.315
30	-.368	.119	-.155	-.786
31	.064	.058	.184	-.075
32	-.088	.075	.209	-.274
33	-.107	.057	.006	-.257
34	-.267	.109	-.089	-.654
35	-.027	.088	.255	-.223
36	-.116	.055	-.035	-.256
37	.072	.074	.281	-.115
38	-.264	.087	-.101	-.521
39	.051	.070	.250	-.108
40	-.096	.068	.073	-.312
41	.039	.066	.201	-.082
42	.010	.088	.315	-.193
43	.031	.065	.211	-.090
44	-.248	.090	-.061	-.561
45	.102	.096	.359	-.122
46	-.041	.083	.298	-.371

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 247 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	.039	.072	.222	-.141
48	-.195	.086	.145	-.476
49	.151	.099	.518	-.024
50	-.277	.098	.261	-.595
51	.119	.100	.430	-.375
52	-.136	.098	.254	-.455
53	.051	.077	.271	-.159
54	-.046	.133	.348	-.441
55	.009	.066	.163	-.170
56	-.231	.075	-.068	-.467
57	.108	.098	.349	-.153
58	-.087	.104	.119	-.423
59	-.006	.084	.219	-.201
60	-.194	.079	-.047	-.546
61	.192	.137	.573	-.058
62	-.529	.217	-.056	-1.278
63	.156	.103	.424	-.106
64	-.140	.122	.019	-.907
65	.020	.083	.252	-.136
66	.027	.128	.395	-.389
67	.002	.077	.199	-.191
68	.022	.058	.129	-.091
69	.042	.055	.184	-.070
70	-.001	.058	.124	-.125
71	-.006	.060	.145	-.145
72	.035	.054	.166	-.079
73	.036	.054	.190	-.076
74	.042	.060	.189	-.113
75	-.056	.075	.109	-.266
76	.031	.066	.186	-.206
77	.039	.070	.186	-.187
78	-.329	.187	-.050	-1.027
79	.183	.096	.502	-.224
80	-.207	.100	.012	-.533
81	.177	.082	.444	-.061
82	-.239	.108	-.004	-.716
83	.121	.101	.428	-.385
84	-.266	.141	.144	-.737
85	.031	.114	.306	-.445
86	-.300	.158	.068	-.889
87	.056	.105	.306	-.269
88	-.011	.053	.096	-.129
89	-.026	.051	.083	-.124
90	-.034	.050	.052	-.113
91	.003	.054	.128	-.105
92	-.090	.057	.034	-.219

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 247 TEMPERATURE 79.00 DEGREES F
BAROMETRIC PRESS 24.47 IN HG VELOCITY 61.39 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	.001	.049	.083	-.078
94	-.047	.048	.039	-.132
95	-.029	.060	.179	-.156
96	-.040	.053	.099	-.138
97	-.111	.056	-.001	-.274
98	-.088	.052	.024	-.199
99	-.098	.049	.002	-.195
100	-.083	.050	.026	-.164
101	-.041	.085	.179	-.261
102	-.035	.086	.172	-.270
103	.039	.054	.150	-.044
104	.043	.053	.136	-.059
105	.047	.055	.150	-.080
106	.062	.055	.177	-.050
107	.014	.058	.150	-.130
108	.006	.059	.156	-.118
109	-.101	.068	.017	-.262
110	-.030	.062	.074	-.185
111	-.130	.106	.233	-.474
112	-.121	.096	.116	-.432
113	.263	.130	.627	-.322
114	.241	.113	.667	.039
115	.230	.109	.672	.043
116	.213	.103	.616	.018
117	.043	.073	.356	-.292
118	.036	.063	.211	-.080
119	.056	.055	.219	-.044
120	.062	.060	.241	-.054
121	-.030	.051	.050	-.121
122	-.027	.051	.055	-.129
123	.007	.062	.170	-.113
124	.010	.063	.146	-.106
125	.029	.049	.130	-.061
126	.028	.050	.113	-.067
127	.043	.051	.150	-.055
128	.038	.051	.146	-.060
129	.012	.055	.124	-.101
130	.006	.058	.111	-.119
131	-.066	.048	.010	-.153
132	-.074	.049	.001	-.161
133	-.048	.048	.039	-.124
134	-.049	.049	.039	-.128
135	-.053	.050	.038	-.145
136	-.065	.054	.039	-.165
137	.011	.063	.127	-.208

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 270 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.40 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.410	.093	-.205	-.731
2	-.143	.066	.048	-.270
3	-.420	.085	-.219	-.703
4	-.104	.069	.086	-.267
5	-.008	.087	.297	-.170
6	-.069	.067	.065	-.217
7	-.167	.075	-.008	-.452
8	-.413	.097	-.205	-.714
9	-.033	.078	.244	-.233
10	-.199	.059	-.082	-.400
11	-.322	.081	-.138	-.529
12	-.013	.049	.091	-.092
13	-.030	.066	.235	-.198
14	-.227	.076	-.059	-.504
15	-.439	.095	-.252	-.768
16	-.060	.072	.212	-.267
17	-.180	.064	-.055	-.378
18	-.452	.142	-.167	-.901
19	-.093	.075	.127	-.269
20	-.184	.070	-.039	-.392
21	-.038	.047	.046	-.122
22	-.286	.083	-.133	-.511
23	-.006	.047	.064	-.085
24	-.056	.084	.210	-.216
25	-.015	.048	.070	-.097
26	-.179	.061	-.076	-.360
27	-.427	.127	-.214	-.891
28	-.082	.061	.115	-.239
29	-.150	.060	-.033	-.295
30	-.414	.131	-.153	-.841
31	-.112	.071	.008	-.311
32	-.087	.079	.142	-.315
33	-.145	.059	-.017	-.336
34	-.396	.132	-.188	-.858
35	-.044	.095	.288	-.265
36	-.133	.056	-.020	-.276
37	-.070	.057	.052	-.169
38	-.226	.088	-.061	-.577
39	-.075	.057	.063	-.181
40	-.229	.108	.030	-.580
41	-.074	.058	.073	-.187
42	.017	.112	.424	-.246
43	-.086	.060	.058	-.209
44	-.250	.103	-.037	-.593
45	-.077	.077	.196	-.243
46	-.001	.124	.441	-.293

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 270 TEMPERATURE 80.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.40 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.071	.068	.125	-.283
48	-.129	.059	-.027	-.401
49	-.073	.061	.108	-.210
50	-.208	.080	-.053	-.460
51	-.086	.074	.140	-.246
52	-.124	.075	.108	-.350
53	-.076	.075	.115	-.312
54	-.048	.108	.453	-.247
55	-.081	.069	.075	-.326
56	-.172	.073	-.010	-.437
57	-.071	.080	.178	-.224
58	.001	.095	.316	-.215
59	-.080	.071	.111	-.286
60	-.127	.059	-.012	-.345
61	-.081	.063	.120	-.200
62	-.202	.088	-.043	-.508
63	-.080	.080	.194	-.273
64	-.093	.078	.127	-.398
65	-.071	.068	.129	-.268
66	-.105	.090	.203	-.352
67	-.055	.062	.091	-.184
68	-.022	.050	.075	-.105
69	-.043	.050	.055	-.135
70	-.023	.053	.064	-.140
71	.003	.065	.159	-.268
72	-.015	.050	.075	-.140
73	-.021	.051	.049	-.115
74	.006	.053	.099	-.097
75	-.028	.061	.109	-.201
76	-.004	.053	.087	-.097
77	-.008	.056	.125	-.165
78	-.113	.157	.189	-1.005
79	-.003	.130	.289	-.583
80	-.126	.127	.163	-.512
81	.020	.107	.307	-.270
82	-.210	.122	.064	-.826
83	.001	.111	.267	-.377
84	-.128	.105	.118	-.640
85	-.047	.093	.230	-.426
86	-.191	.112	.063	-.632
87	.011	.099	.307	-.317
88	-.076	.064	.050	-.219
89	-.034	.051	.059	-.119
90	-.040	.051	.066	-.125
91	-.007	.053	.100	-.092
92	-.092	.052	.001	-.192

DENVER CENTER PERFORMING ARTS
 PRESSURE COEFFICIENTS
 PHASE 4

WIND DIRECTION 270 TEMPERATURE 80.00 DEGREES F
 BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.40 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.002	.049	.077	-.072
94	-.037	.049	.052	-.129
95	-.029	.054	.091	-.128
96	-.030	.053	.067	-.133
97	-.062	.050	.022	-.170
98	-.051	.053	.039	-.173
99	-.062	.052	.036	-.162
100	-.049	.052	.039	-.152
101	-.111	.102	.146	-.481
102	-.094	.100	.181	-.404
103	-.054	.052	.031	-.152
104	-.052	.050	.035	-.135
105	-.117	.061	-.005	-.269
106	-.125	.060	-.020	-.242
107	-.085	.061	.039	-.223
108	-.097	.055	-.005	-.233
109	-.107	.067	.030	-.302
110	-.117	.062	.004	-.462
111	-.212	.100	-.002	-.522
112				
113	.226	.109	.562	.002
114	.190	.099	.500	.012
115	.208	.101	.523	.016
116	.166	.095	.489	-.028
117	-.077	.055	.048	-.242
118	-.071	.054	.044	-.173
119	-.098	.055	.002	-.202
120	-.141	.061	-.011	-.264
121	-.042	.053	.108	-.139
122	-.033	.052	.111	-.111
123	-.108	.054	.021	-.242
124	-.094	.055	-.002	-.219
125	.008	.047	.089	-.078
126	.016	.047	.094	-.076
127	.011	.047	.081	-.077
128	.006	.046	.077	-.080
129	-.066	.053	.039	-.141
130	-.057	.053	.040	-.141
131	-.042	.049	.033	-.111
132	-.048	.049	.035	-.119
133	-.041	.048	.052	-.135
134	-.037	.049	.063	-.131
135	-.039	.052	.059	-.150
136	-.049	.055	.058	-.170
137	-.090	.058	.023	-.209

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 292 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.30 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.370	.104	-.116	-.800
2	-.127	.065	.049	-.257
3	-.378	.104	-.099	-.666
4	-.082	.069	.056	-.245
5	.079	.128	.553	-.204
6	-.050	.061	.070	-.184
7	-.147	.077	.040	-.490
8	-.335	.098	-.109	-.607
9	-.052	.066	.157	-.226
10	-.165	.062	-.034	-.352
11	-.271	.076	-.132	-.501
12	-.018	.049	.065	-.125
13	-.032	.064	.148	-.203
14	-.208	.075	-.064	-.420
15	-.392	.099	-.204	-.798
16	-.069	.070	.104	-.406
17	-.171	.063	-.046	-.361
18	-.451	.117	-.241	-.794
19	-.060	.084	.186	-.290
20	-.139	.060	-.023	-.364
21	-.018	.050	.094	-.103
22	-.248	.070	-.122	-.442
23	-.013	.049	.068	-.089
24	-.006	.074	.205	-.169
25	-.031	.049	.065	-.128
26	-.166	.059	-.059	-.340
27	-.371	.117	-.170	-.730
28	-.078	.058	.083	-.176
29	-.161	.059	-.052	-.316
30	-.416	.124	-.194	-.816
31	-.121	.055	-.034	-.255
32	-.104	.077	.098	-.318
33	-.146	.057	-.016	-.278
34	-.367	.115	-.176	-.739
35	-.058	.075	.161	-.277
36	-.125	.051	-.032	-.223
37	-.121	.052	-.008	-.207
38	-.205	.077	-.063	-.455
39	-.133	.057	-.019	-.323
40	-.273	.101	-.052	-.583
41	-.128	.051	-.050	-.225
42	.062	.106	.445	-.109
43	-.150	.051	-.066	-.238
44	-.332	.118	-.112	-.777
45	-.142	.053	-.028	-.234
46	.072	.110	.365	-.148

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 292 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.30 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.128	.051	-.033	-.214
48	-.114	.053	-.010	-.315
49	-.116	.049	-.038	-.190
50	-.241	.098	-.090	-.548
51	-.149	.051	-.050	-.237
52	-.187	.069	-.032	-.352
53	-.138	.051	-.034	-.243
54	.120	.130	.528	-.117
55	-.135	.050	-.052	-.239
56	-.229	.083	-.070	-.444
57	-.132	.053	-.015	-.227
58	.084	.095	.328	-.105
59	-.123	.052	.017	-.220
60	-.116	.051	-.034	-.263
61	-.107	.050	-.028	-.190
62	-.207	.076	-.080	-.464
63	-.136	.052	-.034	-.244
64	-.148	.078	-.025	-.418
65	-.113	.051	.016	-.201
66	-.075	.134	.260	-.414
67	-.091	.053	.115	-.355
68	-.031	.051	.053	-.152
69	-.051	.049	.026	-.138
70	-.021	.050	.074	-.113
71	.002	.060	.129	-.113
72	-.028	.050	.059	-.111
73	-.034	.049	.039	-.127
74	-.019	.052	.063	-.114
75	-.029	.061	.112	-.166
76	-.023	.052	.059	-.136
77	-.025	.054	.080	-.144
78	-.006	.062	.168	-.204
79	-.035	.069	.151	-.272
80	.020	.088	.245	-.300
81	-.047	.078	.188	-.283
82	-.124	.123	.121	-.636
83	-.029	.090	.203	-.368
84	-.037	.084	.149	-.376
85	-.032	.086	.149	-.341
86	-.058	.089	.140	-.396
87	-.005	.086	.186	-.282
88	-.049	.053	.053	-.149
89	-.064	.048	.026	-.140
90	-.064	.049	.026	-.145
91	-.039	.047	.042	-.111
92	-.102	.060	.034	-.249

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 292 TEMPERATURE 82.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.30 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.043	.046	.051	-.131
94	-.056	.048	.042	-.147
95	-.051	.057	.049	-.195
96	-.040	.055	.079	-.148
97	-.062	.052	.029	-.165
98	-.032	.053	.087	-.124
99	-.031	.051	.065	-.116
100	-.040	.053	.120	-.130
101	-.022	.094	.253	-.352
102	-.017	.092	.261	-.328
103	-.042	.049	.051	-.153
104	-.052	.049	.030	-.154
105	-.185	.070	-.051	-.473
106	-.181	.059	-.064	-.294
107	-.146	.052	-.056	-.280
108	-.131	.050	-.042	-.219
109	-.162	.073	0.000	-.344
110	-.146	.063	-.024	-.284
111	-.172	.077	.001	-.408
112	-.196	.078	-.041	-.499
113	.186	.109	.457	-.083
114	.142	.095	.355	-.075
115	.160	.110	.407	-.097
116	.130	.091	.399	-.075
117	-.111	.050	-.022	-.198
118	-.101	.049	-.007	-.190
119	-.135	.051	-.046	-.227
120	-.176	.057	-.064	-.303
121	-.060	.046	.031	-.148
122	-.054	.046	.038	-.139
123	-.109	.045	-.038	-.187
124	-.104	.047	-.025	-.182
125	-.005	.050	.083	-.096
126	.001	.049	.090	-.081
127	-.007	.048	.080	-.074
128	-.008	.047	.080	-.076
129	-.077	.050	.026	-.162
130	-.073	.051	.030	-.154
131	-.051	.048	.055	-.125
132	-.056	.048	.051	-.130
133	-.053	.048	.026	-.128
134	-.048	.048	.029	-.125
135	-.046	.050	.056	-.130
136	-.054	.051	.058	-.146
137	-.140	.055	-.047	-.238

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 315 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.290	.083	-.123	-.579
2	.178	.084	.431	-.072
3	-.455	.155	-.090	-1.109
4	.145	.092	.389	-.128
5	-.116	.154	.272	-.881
6	-.008	.109	.294	-.281
7	-.113	.065	.041	-.335
8	-.277	.104	-.057	-.597
9	.012	.065	.156	-.140
10	-.127	.061	.107	-.290
11	-.213	.073	-.067	-.415
12	.052	.075	.191	-.328
13	.040	.071	.209	-.162
14	-.260	.088	-.075	-.521
15	-.397	.123	-.137	-.821
16	-.111	.127	.134	-.600
17	-.100	.060	.060	-.337
18	-.161	.066	-.033	-.356
19	-.058	.056	.079	-.180
20	-.078	.054	.021	-.225
21	.012	.049	.089	-.080
22	-.131	.069	-.015	-.320
23	.011	.048	.091	-.080
24	-.015	.061	.194	-.131
25	-.024	.049	.066	-.110
26	-.087	.056	.008	-.220
27	-.194	.104	-.018	-.531
28	-.035	.059	.117	-.151
29	-.095	.055	-.009	-.225
30	-.231	.101	-.071	-.588
31	-.089	.048	-.012	-.167
32	-.035	.073	.162	-.270
33	-.102	.054	-.006	-.224
34	-.254	.089	-.098	-.601
35	-.028	.075	.247	-.205
36	-.083	.049	.005	-.173
37	-.114	.046	-.040	-.195
38	-.153	.069	-.031	-.427
39	-.118	.047	-.043	-.208
40	-.123	.068	.030	-.293
41	-.118	.048	-.032	-.205
42	.040	.095	.369	-.162
43	-.132	.049	-.043	-.220
44	-.187	.077	-.052	-.391
45	-.117	.051	.005	-.225
46	.071	.122	.557	-.189

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 315 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.103	.054	.198	-.214
48	-.077	.050	.021	-.172
49	-.098	.045	-.025	-.186
50	-.160	.071	-.020	-.347
51	-.122	.047	-.047	-.207
52	-.087	.059	.052	-.203
53	-.110	.048	-.019	-.210
54	.066	.108	.433	-.132
55	-.110	.048	-.023	-.218
56	-.118	.062	-.004	-.277
57	-.107	.050	-.019	-.206
58	.113	.109	.613	-.092
59	-.101	.050	-.015	-.199
60	-.084	.050	.001	-.176
61	-.088	.046	-.014	-.167
62	-.147	.062	-.048	-.359
63	-.112	.048	-.030	-.204
64	-.194	.089	-.016	-.481
65	-.101	.047	-.012	-.190
66	-.102	.114	.218	-.486
67	-.072	.047	.016	-.146
68	-.024	.046	.051	-.096
69	-.043	.047	.035	-.141
70	-.015	.048	.060	-.104
71	-.006	.058	.096	-.203
72	-.018	.048	.067	-.120
73	-.023	.048	.057	-.098
74	-.016	.050	.079	-.105
75	-.033	.060	.086	-.221
76	-.016	.050	.076	-.135
77	-.019	.055	.164	-.125
78	.008	.058	.121	-.166
79	-.033	.050	.072	-.117
80	.041	.072	.255	-.133
81	-.045	.056	.081	-.195
82	-.102	.099	.045	-.682
83	-.029	.066	.162	-.176
84	-.021	.073	.105	-.219
85	-.012	.065	.128	-.175
86	-.007	.064	.142	-.223
87	.062	.066	.205	-.090
88	-.072	.055	.029	-.192
89	-.090	.049	.001	-.190
90	-.092	.049	-.007	-.215
91	-.047	.048	.043	-.130
92	-.091	.058	.026	-.212

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 315 TEMPERATURE 81.00 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 61.28 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.046	.047	.031	-.123
94	-.072	.050	.025	-.180
95	-.087	.057	.027	-.219
96	-.055	.050	.064	-.146
97	-.082	.053	.011	-.190
98	-.045	.049	.049	-.126
99	-.029	.050	.068	-.118
100	-.052	.048	.038	-.125
101	.039	.067	.211	-.139
102	.049	.070	.227	-.173
103	-.031	.047	.045	-.106
104	-.038	.048	.039	-.120
105	-.133	.055	-.033	-.259
106	-.154	.055	-.060	-.260
107	-.115	.049	-.034	-.196
108	-.103	.046	-.028	-.178
109	-.113	.051	-.032	-.207
110	-.099	.047	-.027	-.192
111	-.120	.054	-.026	-.244
112	-.127	.057	-.023	-.304
113	.018	.091	.277	-.207
114	.014	.076	.308	-.134
115	-.020	.077	.304	-.169
116	.006	.077	.227	-.134
117	-.103	.046	-.031	-.189
118	-.093	.046	-.019	-.175
119	-.121	.047	-.050	-.214
120	-.162	.053	-.075	-.303
121	-.086	.050	-.001	-.181
122	-.081	.050	.001	-.171
123	-.083	.046	-.011	-.178
124	-.088	.047	-.018	-.170
125	-.017	.058	.083	-.138
126	-.007	.057	.089	-.130
127	.038	.049	.131	-.036
128	.036	.049	.119	-.040
129	-.093	.047	-.014	-.175
130	-.088	.047	-.001	-.175
131	-.063	.045	.007	-.130
132	-.067	.046	.008	-.132
133	-.059	.045	.010	-.126
134	-.053	.045	.016	-.124
135	-.049	.045	.031	-.122
136	-.054	.045	.023	-.124
137	-.139	.049	-.059	-.239

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 337 TEMPERATURE 80.50 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 62.13 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1	-.262	.115	-.034	-.772
2	.137	.077	.305	-.210
3	-.339	.162	-.030	-.900
4	.091	.086	.313	-.279
5	-.136	.131	.129	-.732
6	.036	.091	.268	-.266
7	-.078	.072	.059	-.430
8	-.111	.080	.099	-.401
9	-.017	.059	.095	-.185
10	-.059	.055	.033	-.195
11	-.092	.067	.048	-.259
12	.076	.062	.207	-.036
13	.013	.065	.206	-.117
14	-.102	.069	.030	-.286
15	-.125	.093	.073	-.389
16	-.009	.075	.190	-.243
17	-.045	.054	.051	-.192
18	-.078	.067	.032	-.335
19	.002	.059	.148	-.106
20	-.027	.052	.058	-.137
21	.031	.049	.116	-.059
22	-.045	.053	.046	-.195
23	.019	.047	.095	-.053
24	.009	.058	.171	-.102
25	-.026	.048	.058	-.111
26	-.034	.051	.054	-.196
27	-.046	.058	.051	-.190
28	-.002	.052	.108	-.102
29	-.039	.053	.074	-.156
30	-.058	.061	.052	-.224
31	-.079	.049	.004	-.158
32	-.003	.057	.137	-.111
33	-.033	.053	.066	-.166
34	-.079	.066	.058	-.290
35	-.003	.066	.204	-.148
36	-.027	.051	.070	-.149
37	-.074	.047	-.007	-.175
38	-.063	.065	.065	-.260
39	-.079	.047	-.007	-.187
40	-.028	.074	.157	-.211
41	-.079	.048	-.006	-.159
42	.030	.082	.370	-.113
43	-.088	.048	-.004	-.166
44	-.061	.079	.149	-.329
45	-.071	.048	.015	-.179
46	.059	.102	.439	-.111

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 337 TEMPERATURE 80.50 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 62.13 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
47	-.063	.047	.018	-.174
48	-.026	.049	.066	-.124
49	-.058	.046	.034	-.137
50	-.077	.067	.070	-.272
51	-.076	.047	.011	-.156
52	-.022	.068	.218	-.173
53	-.071	.048	.006	-.152
54	.070	.105	.455	-.133
55	-.070	.053	.210	-.140
56	-.034	.067	.131	-.177
57	-.063	.047	.002	-.176
58	.099	.101	.426	-.050
59	-.064	.047	.012	-.163
60	-.039	.048	.037	-.133
61	-.048	.046	.032	-.115
62	-.093	.058	.011	-.252
63	-.066	.048	.009	-.174
64	-.130	.076	-.011	-.370
65	-.063	.045	-0.000	-.145
66	-.090	.091	.141	-.407
67	-.037	.045	.023	-.120
68	-.025	.046	.046	-.107
69	-.034	.047	.045	-.108
70	-.019	.046	.052	-.094
71	-.016	.057	.083	-.180
72	-.025	.046	.041	-.098
73	-.030	.046	.042	-.103
74	-.018	.046	.048	-.096
75	-.035	.063	.083	-.227
76	-.023	.047	.043	-.101
77	-.023	.047	.048	-.109
78	-.022	.064	.161	-.218
79	-.029	.054	.066	-.146
80	.032	.081	.272	-.144
81	-.041	.057	.077	-.194
82	-.069	.070	.053	-.265
83	-.038	.062	.097	-.210
84	-.031	.064	.097	-.228
85	-.037	.063	.089	-.218
86	-.012	.063	.141	-.164
87	-.020	.065	.104	-.232
88	-.045	.046	.026	-.113
89	-.045	.045	.027	-.108
90	-.042	.046	.038	-.118
91	-.040	.045	.034	-.108
92	-.038	.050	.064	-.124

DENVER CENTER PERFORMING ARTS
PRESSURE COEFFICIENTS
PHASE 4

WIND DIRECTION 337 TEMPERATURE 80.50 DEGREES F
BAROMETRIC PRESS 24.50 IN HG VELOCITY 62.13 FPS

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
93	-.036	.045	.033	-.096
94	-.043	.046	.027	-.110
95	-.040	.053	.052	-.161
96	-.023	.055	.095	-.144
97	-.039	.050	.103	-.133
98	-.024	.050	.068	-.144
99	-.015	.053	.132	-.103
100	-.035	.049	.061	-.130
101	-.031	.055	.061	-.149
102	-.025	.058	.069	-.212
103	-.025	.045	.047	-.103
104	-.024	.046	.047	-.101
105	-.088	.049	-.014	-.201
106	-.083	.049	-.009	-.181
107	-.075	.047	-.007	-.179
108	-.075	.047	-.001	-.174
109	-.063	.048	.010	-.145
110	-.057	.047	.009	-.130
111	-.067	.049	.009	-.152
112	-.066	.049	.026	-.169
113	-.010	.064	.137	-.207
114	-.007	.059	.180	-.158
115	-.039	.060	.135	-.203
116	-.014	.060	.125	-.181
117	-.061	.047	.032	-.149
118	-.052	.046	.037	-.125
119	-.092	.051	.010	-.179
120	-.112	.054	-.005	-.205
121	-.046	.048	.065	-.121
122	-.039	.047	.031	-.107
123	-.048	.045	.031	-.124
124	-.052	.045	.022	-.125
125	-.058	.060	.066	-.176
126	-.048	.061	.070	-.213
127	.048	.052	.135	-.036
128	.048	.053	.141	-.035
129	-.050	.053	.024	-.269
130	-.041	.045	.032	-.101
131	-.043	.044	.018	-.098
132	-.047	.044	.017	-.107
133	-.055	.045	.014	-.125
134	-.051	.046	.022	-.120
135	-.052	.046	.011	-.130
136	-.066	.048	.009	-.141
137	-.094	.051	-.014	-.200

TABLE X

Summary of the Larger Values of Pressure Coefficients
Encountered by Phase, Tap Number and Wind Direction

Phase I

TAPS (1,2)	$C_{\Delta p_{\max}}$	=	1.329↑	0° Dir
TAPS (3,4)	$C_{\Delta p_{\max}}$	=	1.505↑	90° Dir
TAPS (5,6)	$C_{\Delta p_{\max}}$	=	1.175↑	67° Dir
TAPS (11,12)	$C_{\Delta p_{\max}}$	=	.841↑	90° Dir
TAPS (20,21)	$C_{\Delta p_{\max}}$	=	1.228↑	202° Dir
TAPS (22,23)	$C_{\Delta p_{\max}}$	=	1.064↑	202° Dir
TAPS (24,25)	$C_{\Delta p_{\max}}$	=	1.031↑	180° Dir

Phase II

TAPS (1,2)	$C_{\Delta p_{\max}}$	=	1.455↑	0° Dir
TAPS (3,4)	$C_{\Delta p_{\max}}$	=	1.336↑	22° Dir
TAPS (5,6)	$C_{\Delta p_{\max}}$	=	1.311↑	67° Dir
TAPS (11,12)	$C_{\Delta p_{\max}}$	=	.777↑	90° Dir
TAPS (20,21)	$C_{\Delta p_{\max}}$	=	.966↓	157° Dir
TAPS (22,23)	$C_{\Delta p_{\max}}$	=	1.023↑	157° Dir
TAPS (24,25)	$C_{\Delta p_{\max}}$	=	.781↑	180° Dir

↑-Upward force.

↓-Downward force.

TABLE X (Cont.)

Phase III

TAPS (1,2)	$C_{\Delta p_{\max}}$	= 1.506↑	337° Dir
TAPS (3,4)	$C_{\Delta p_{\max}}$	= 1.345↑	22° Dir
TAPS (5,6)	$C_{\Delta p_{\max}}$	= 1.162↑	22° Dir
TAPS (11,12)	$C_{\Delta p_{\max}}$	= .926↑	90° Dir
TAPS (20,21)	$C_{\Delta p_{\max}}$	= .699↓	135° Dir
TAPS (22,23)	$C_{\Delta p_{\max}}$	= .904↑	112° Dir
TAPS (24,25)	$C_{\Delta p_{\max}}$	= .603↑	225° Dir
TAPS (30,31)	$C_{\Delta p_{\max}}$	= 1.052↑	67° Dir
TAPS (36,37)	$C_{\Delta p_{\max}}$	= 1.045↑	180° Dir
TAPS (38,39)	$C_{\Delta p_{\max}}$	= 1.140↑	135° Dir
TAPS (40,41)	$C_{\Delta p_{\max}}$	= .824↑	202° Dir
TAPS (42,43)	$C_{\Delta p_{\max}}$	= 1.020↑	135° Dir
TAPS (44,45)	$C_{\Delta p_{\max}}$	= 1.347*	135° Dir
TAPS (46,47)	$C_{\Delta p_{\max}}$	= 1.215*	157° Dir
TAPS (48,49)	$C_{\Delta p_{\max}}$	= 1.275↑	225° Dir
TAPS (50,51)	$C_{\Delta p_{\max}}$	= 1.496↑	225° Dir
TAPS (52,53)	$C_{\Delta p_{\max}}$	= 1.282↑	135° Dir

* Force In the direction of wind.

↑- Upward force.

↓-Downward force.

TABLE X (Cont.)

Phase III

TAPS (54,55)	$C_{\Delta p_{\max}}$	=	1.243 $\uparrow$	135° Dir
TAPS (56,57)	$C_{\Delta p_{\max}}$	=	1.198*	135° Dir
TAPS (58,59)	$C_{\Delta p_{\max}}$	=	1.258*	202° Dir
TAPS (60,61)	$C_{\Delta p_{\max}}$	=	1.519 $\uparrow$	202° Dir
TAPS (62,63)	$C_{\Delta p_{\max}}$	=	2.221 $\uparrow$	247° Dir
TAPS (64,65)	$C_{\Delta p_{\max}}$	=	1.958 $\uparrow$	225° Dir
TAPS (66,67)	$C_{\Delta p_{\max}}$	=	1.552 $\uparrow$	202° Dir
TAPS (92,93)	$C_{\Delta p_{\max}}$	=	.565 $\downarrow$	90° Dir

* Force in the direction of wind.

$\uparrow$ - Upward force.

$\downarrow$ -Downward force.

TABLE X (Cont.)

Phase IV

TAPS (1,2)	$C_{\Delta p_{\max}} = C_{\Delta p_{\min}} = 1.355\uparrow$	0° Dir
TAPS (3,4)	$C_{\Delta p_{\max}} = 1.498\uparrow$	315° Dir
TAPS (5,6)	$C_{\Delta p_{\max}} = 1.175\uparrow$	315° Dir
TAPS (11,12)	$C_{\Delta p_{\max}} = .889\uparrow$	90° Dir
TAPS (20,21)	$C_{\Delta p_{\max}} = .659\downarrow$	157° Dir
TAPS (22,23)	$C_{\Delta p_{\max}} = .896\uparrow$	67° Dir
TAPS (24,25)	$C_{\Delta p_{\max}} = .783\uparrow$	225° Dir
TAPS (30,31)	$C_{\Delta p_{\max}} = 1.009\uparrow$	90° Dir
TAPS (36,37)	$C_{\Delta p_{\max}} = .933\uparrow$	180° Dir
TAPS (38,39)	$C_{\Delta p_{\max}} = 1.180\uparrow$	135° Dir
TAPS (40,41)	$C_{\Delta p_{\max}} = .960\uparrow$	202° Dir
TAPS (42,43)	$C_{\Delta p_{\max}} = 1.054\uparrow$	157° Dir
TAPS (44,45)	$C_{\Delta p_{\max}} = 1.442^*$	112° Dir
TAPS (46,47)	$C_{\Delta p_{\max}} = 1.326^*$	135° Dir
TAPS (48,49)	$C_{\Delta p_{\max}} = 1.287\uparrow$	225° Dir
TAPS (50,51)	$C_{\Delta p_{\max}} = 1.355\uparrow$	225° Dir
TAPS (52,53)	$C_{\Delta p_{\max}} = 1.435\uparrow$	135° Dir
TAPS (54,55)	$C_{\Delta p_{\max}} = 1.430\uparrow$	135° Dir
TAPS (56,57)	$C_{\Delta p_{\max}} = 1.364^*$	157° Dir
TAPS (58,59)	$C_{\Delta p_{\max}} = 1.145^*$	157° Dir
TAPS (60,61)	$C_{\Delta p_{\max}} = 1.522\uparrow$	202° Dir
TAPS (62,63)	$C_{\Delta p_{\max}} = 1.966\uparrow$	135° Dir

* Force in the direction of wind.

$\uparrow$ -Upward force.

$\downarrow$ -Downward force.

TABLE X (Cont.)

Phase IV

TAPS (64,65)	$C_{\Delta p_{\max}}$	= 1.895↑	225° Dir
TAPS (66,67)	$C_{\Delta p_{\max}}$	= 1.681↑	202° Dir
TAPS (71,72)	$C_{\Delta p_{\max}}$	= .542↓	135° Dir
TAPS (75,76)	$C_{\Delta p_{\max}}$	= .452↑	247° Dir
TAPS (78,79)	$C_{\Delta p_{\max}}$	= 1.529↑	247° Dir
TAPS (80,81)	$C_{\Delta p_{\max}}$	= 1.055↑	225° Dir
TAPS (82,83)	$C_{\Delta p_{\max}}$	= 1.44 ↑	247° Dir
TAPS (84,85)	$C_{\Delta p_{\max}}$	= 1.270↑	225° Dir
TAPS (86,87)	$C_{\Delta p_{\max}}$	= 1.195↑	247° Dir
TAPS (92,93)	$C_{\Delta p_{\max}}$	= .396↑	157° Dir
TAPS (95,96)	$C_{\Delta p_{\max}}$	= .498↓	135° Dir
TAPS (97,98)	$C_{\Delta p_{\max}}$	= .567↑	157° Dir
TAPS (99,100)	$C_{\Delta p_{\max}}$	= .915↑	22° Dir

↑-Upward force.

↓-Downward force.

Table XI Percentage Frequencies of Wind Direction and Speed*--
30 Ft Elevation, Stapleton Airport, 1951-60
(87,672 observations of one-minute averages at one-hour intervals)

DIRECTION	HOURLY OBSERVATIONS OF WIND SPEED (IN MILES PER HOUR)										AV SPEED
	0 - 3	4 - 7	8 - 12	13 - 18	19 - 24	25 - 31	32 - 38	39 - 46	47 OVER	TOTAL	
N	.5	1.6	2.4	1.6	.4	.2	+	+		6.7	10.8
NNE	.4	1.6	2.0	1.3	.4	.1	+	+		5.9	10.7
NE	.7	1.5	1.6	.9	.2	.1	+			4.9	9.0
ENE	.4	1.2	1.4	.9	.2	.1	+			4.2	9.5
E	.5	1.3	1.6	.9	.2	+	+			4.6	9.4
ESE	.4	1.2	1.2	.7	.1	+	+			3.6	9.0
SE	.7	1.5	1.5	.8	.1	+	+	+		4.7	8.7
SSE	.5	1.5	1.6	.8	.3	.1	+	+		4.8	9.7
S	1.2	4.0	6.5	4.4	.7	.2	+	+		16.9	10.3
SSW	.8	3.4	6.2	4.7	.5	.1	+	+		15.6	10.5
SW	.8	1.8	1.8	.8	.2	+	+	+		5.5	8.5
WSW	.5	1.1	.9	.4	.1	.1	+			3.1	8.9
W	.5	1.0	.9	.7	.3	.2	+	+		3.6	10.6
WNW	.4	1.0	1.0	1.0	.6	.3	.1	+	+	4.5	12.9
NW	.8	1.7	1.7	1.3	.5	.2	+	+		6.3	10.7
NNW	.4	1.2	1.5	.8	.2	+	+		+	4.2	9.5
CALM	1.0									1.0	
TOTAL	10.6	26.7	33.8	21.9	4.9	1.7	.4	.1	+	100	10.0

* From Climatology of the United States No. 82-5, Denver, Colorado '51-'60
U.S. Department of Commerce Weather Bureau, p. 15

FIGURES

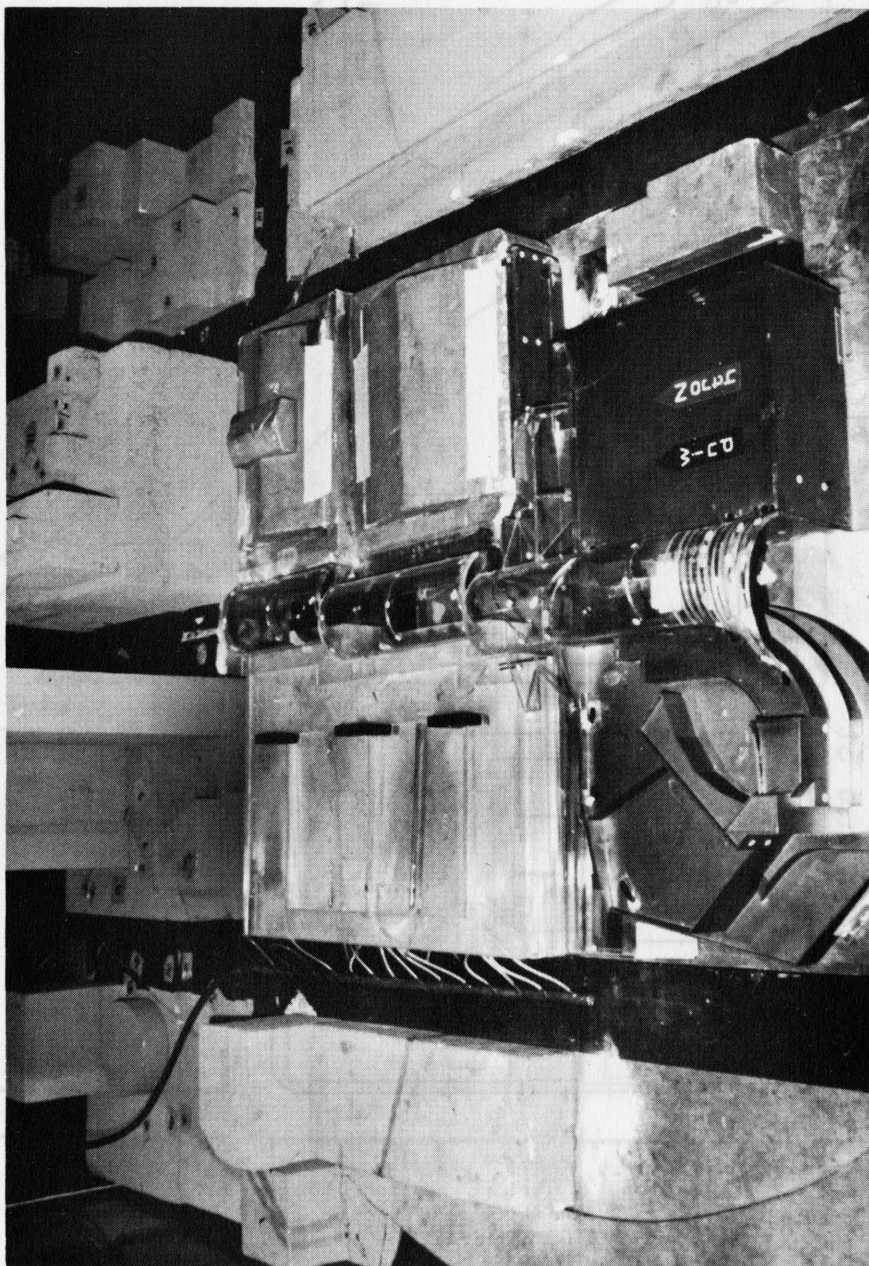


Figure 1. Model Photo.

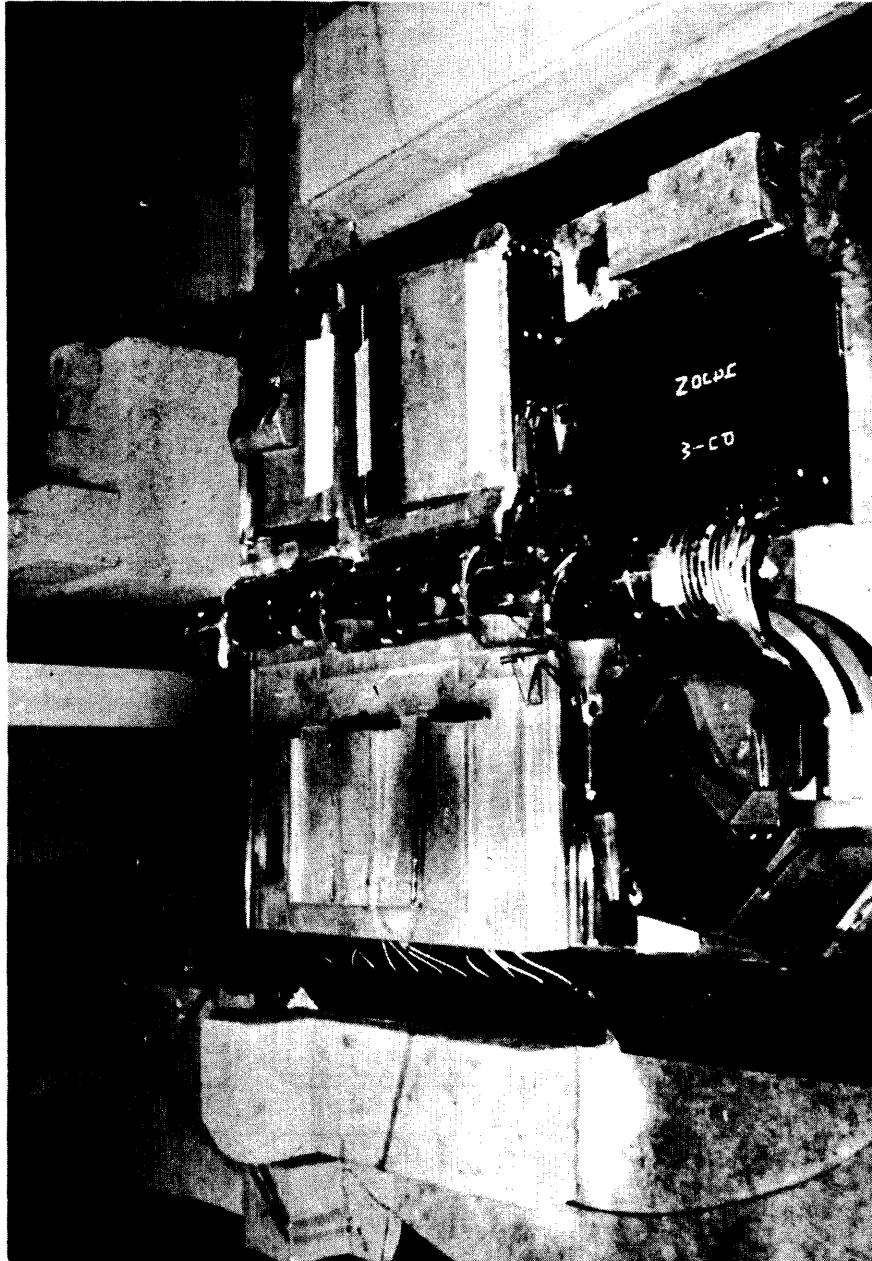


Figure 1. Model Photo.

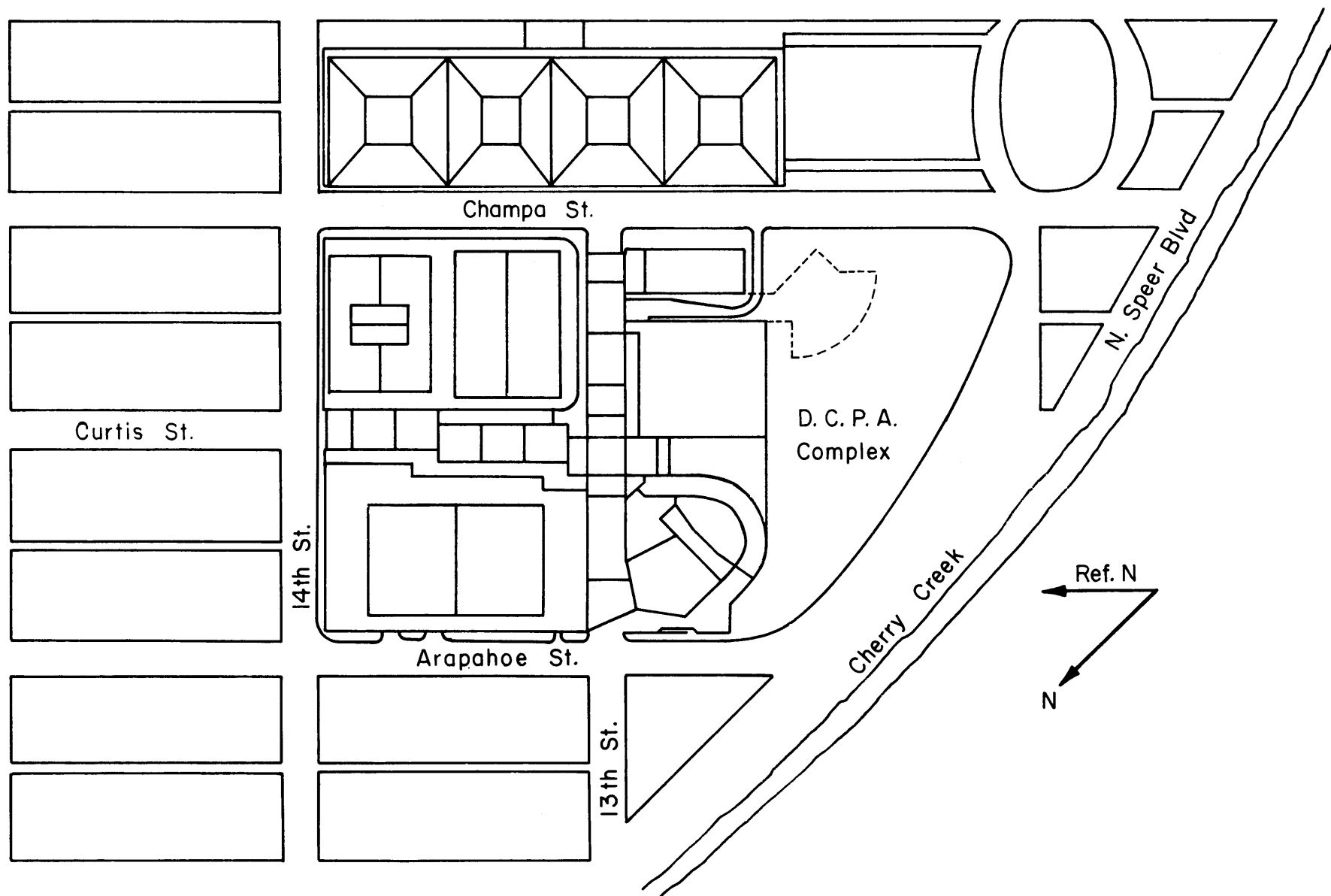
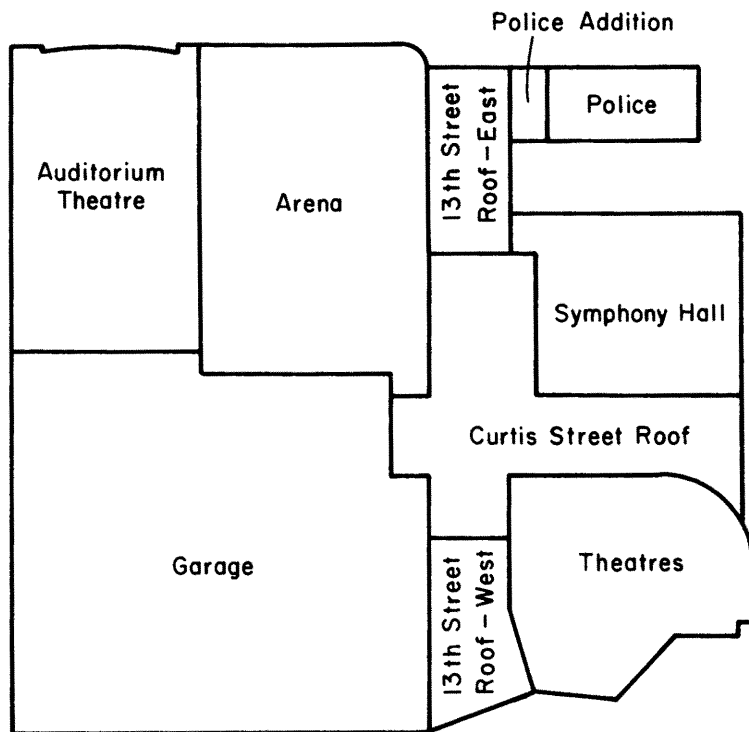


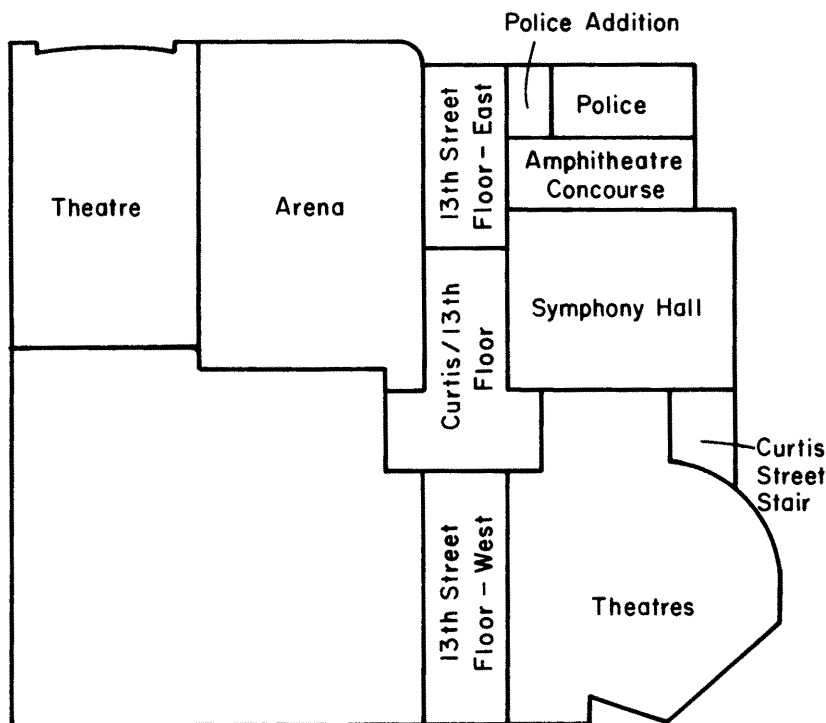
Figure 2. Site Location.



DCPA Roof Level

Phases of Construction

1. With – Auditorium Theatre
Arena
Police
Garage
Curtis/13th Floor
Symphony Hall
2. Add – Theatres
13th St. Floor – West
Curtis St. Stair
3. Add – Curtis St. Roof
4. Add – 13th St. Floor – East
Police Addition
13th St. Roof – West
13th St. Roof – East
Amphitheatre Concourse



DCPA Galleria Level

Figure 3. Geometrical Phasing of the Proposed Construction.

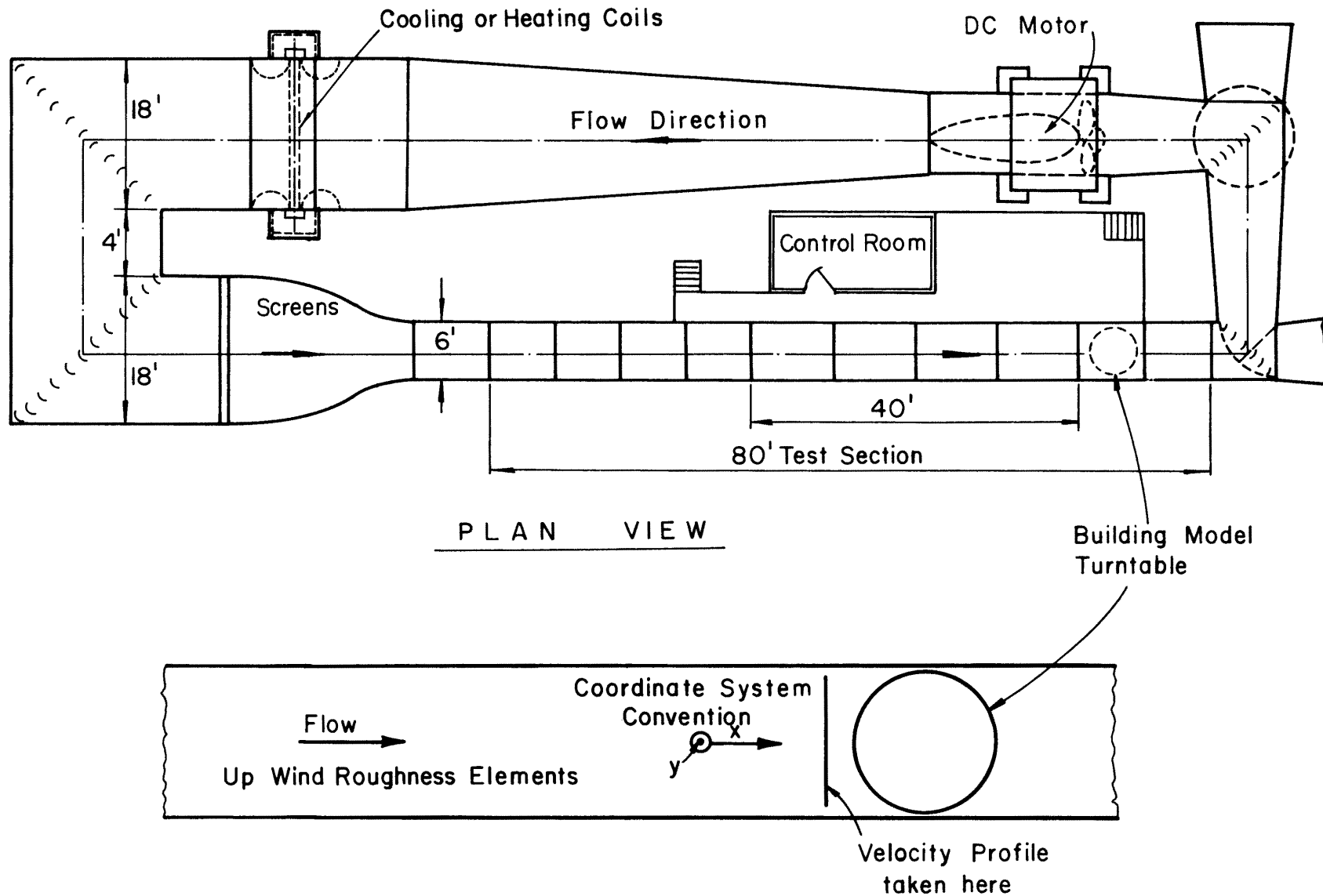
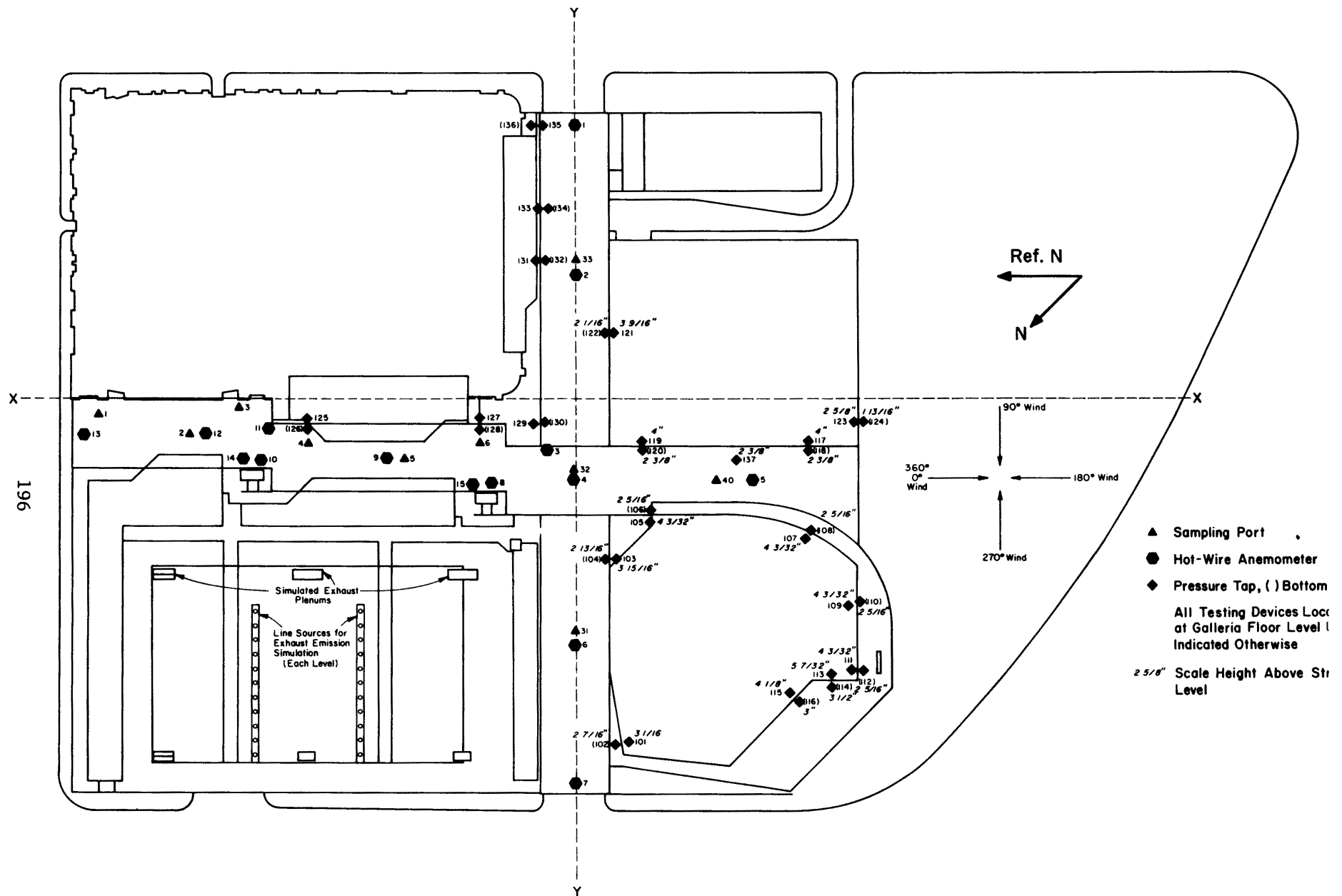


Figure 4. Wind Tunnel: Model Placement in Test Section Coordinate System and Location of Velocity Profile Measurements.

Figure 5. Location of Pressure Taps in the Galleria Roofs (Level 3).



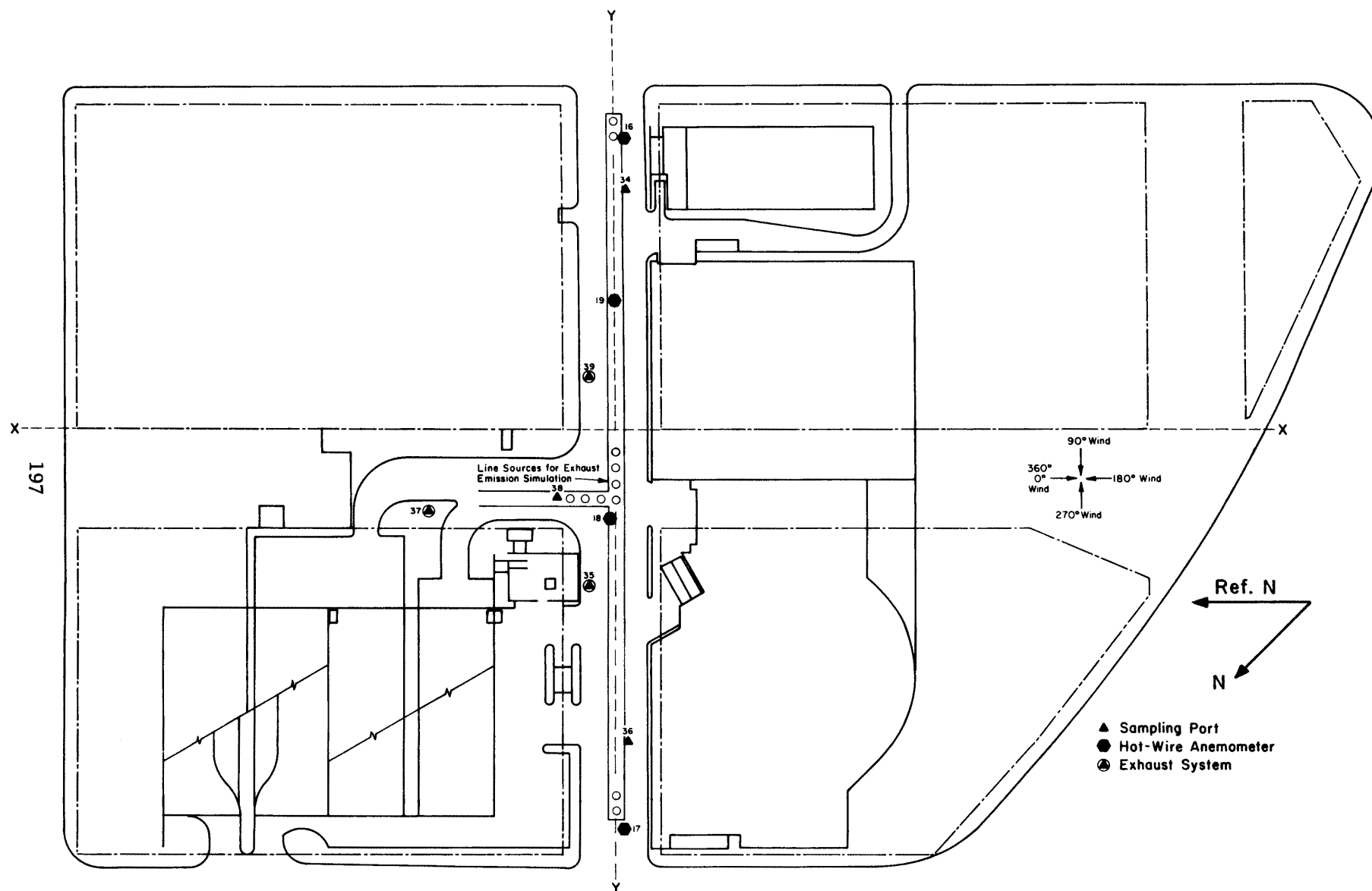


Figure 7. Location of Sampling Ports and Hot-Wire Anemometer Testing Locations (Level 1).

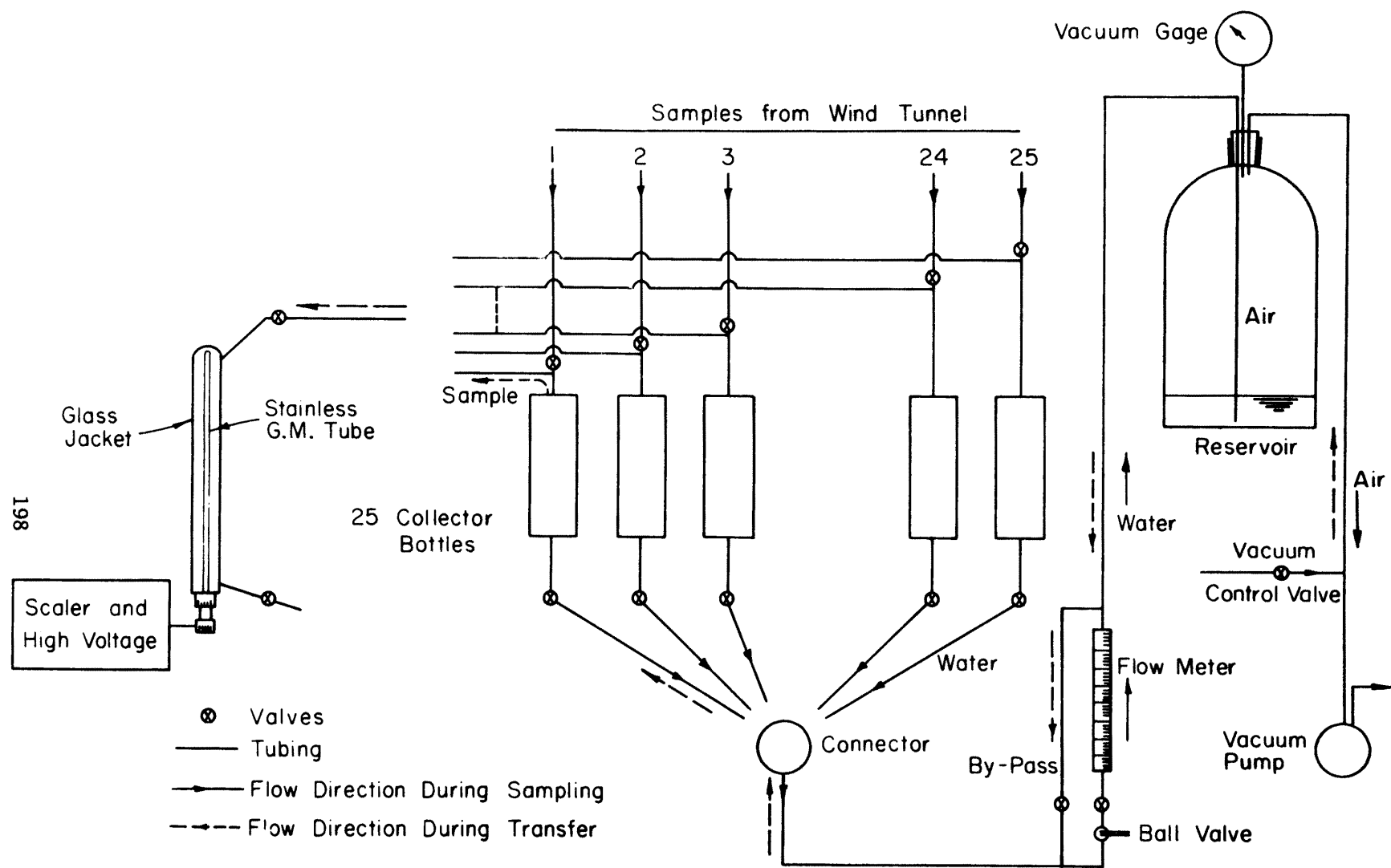


Figure 8. Tracer-Gas Sampling and Analysis System.

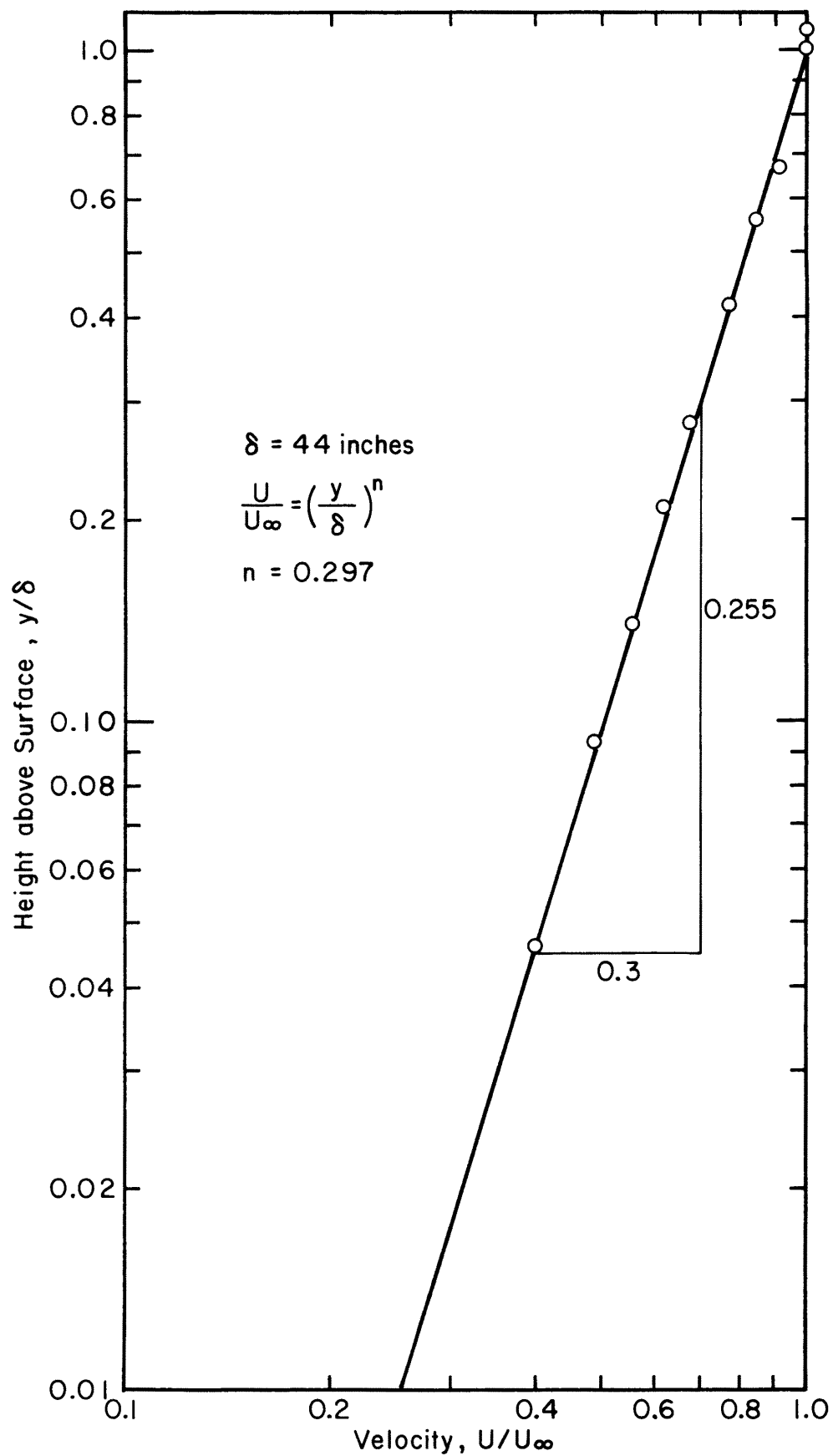


Figure 9. Mean Velocity Profile Approaching the Model.

Figures 10-24

Hot-Wire Anemometer Data by Model Location for Phase I.

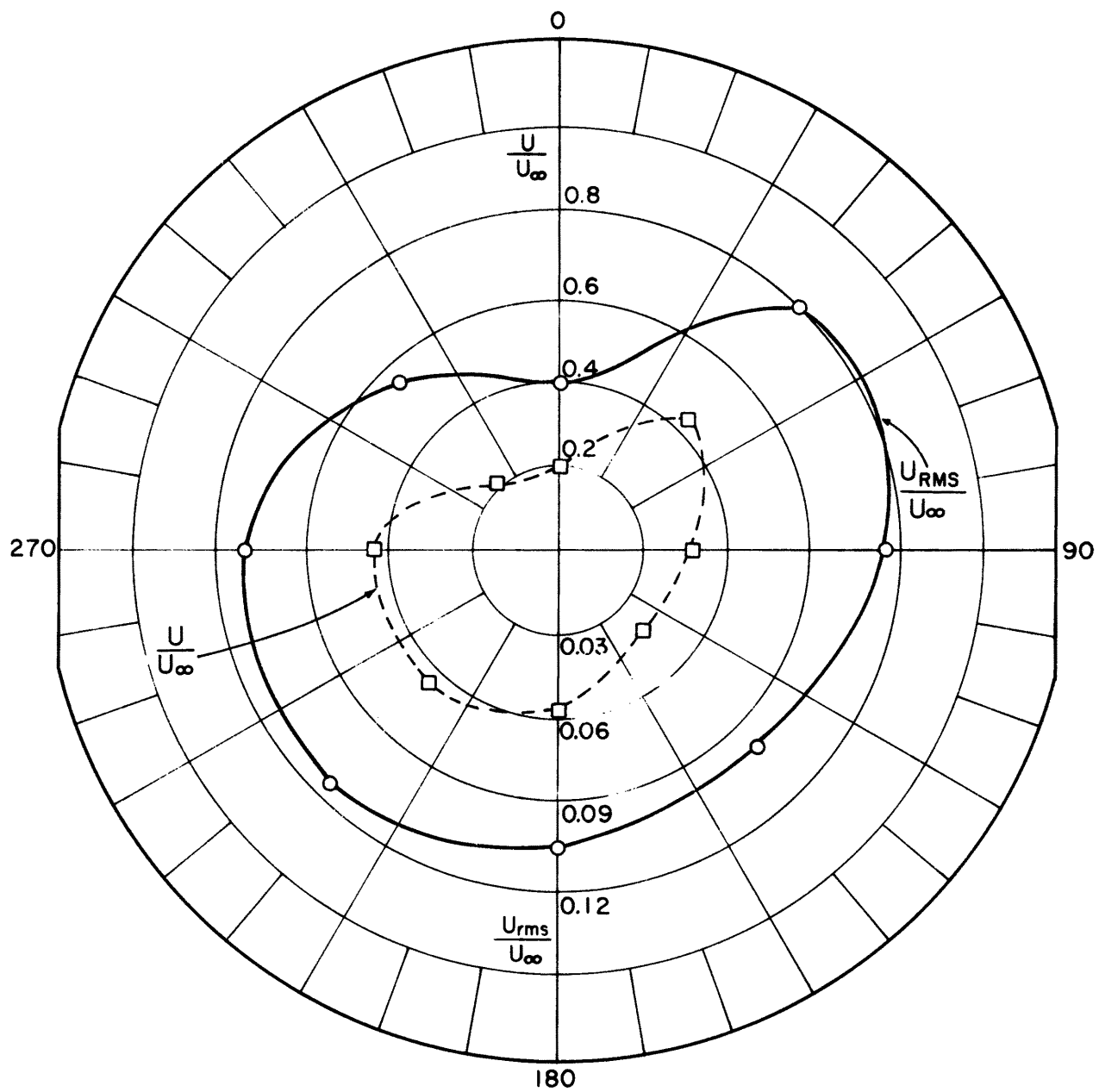


Figure 10. Phase I, Location 2.

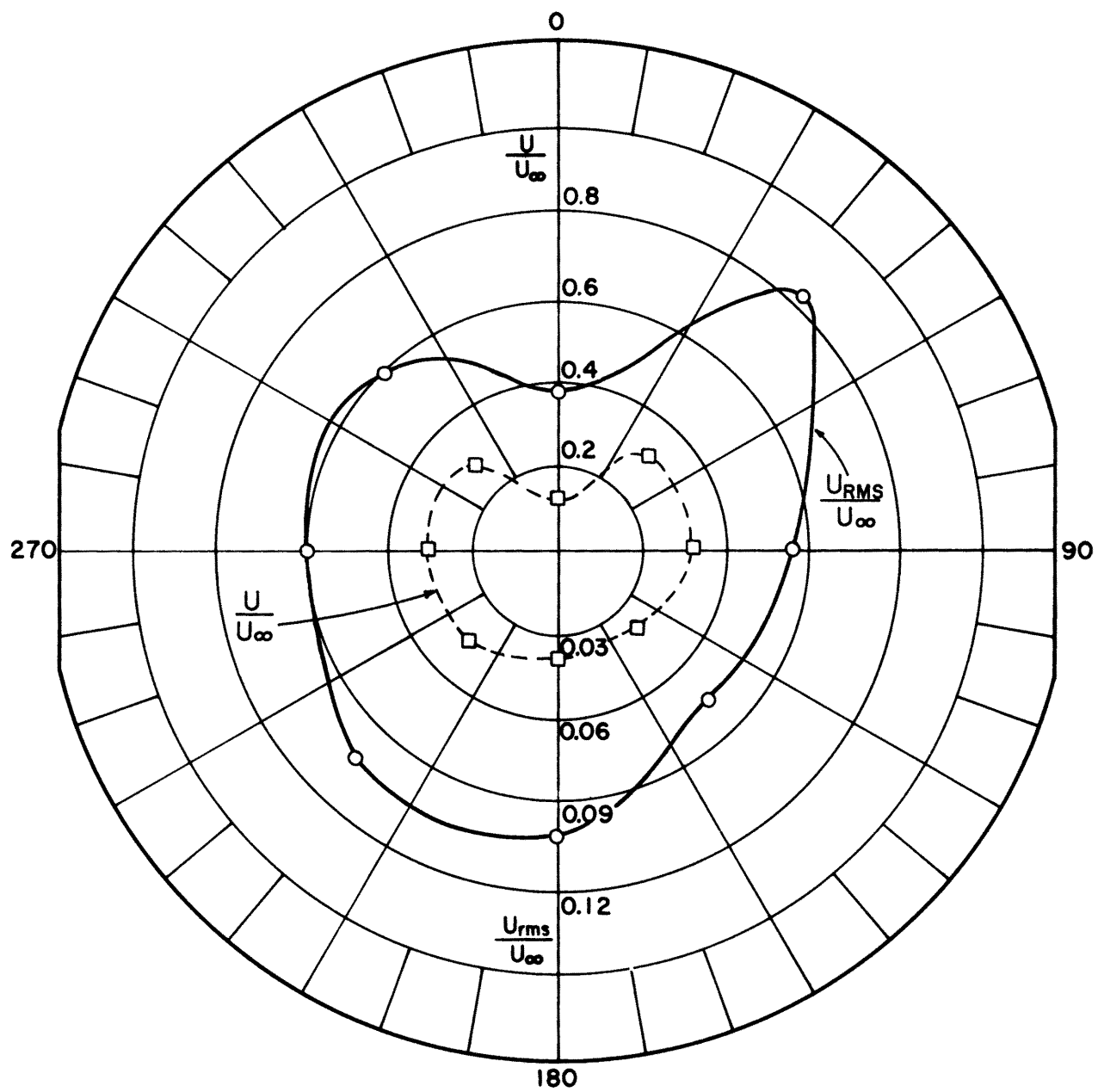


Figure 11. Phase I, Location 3.

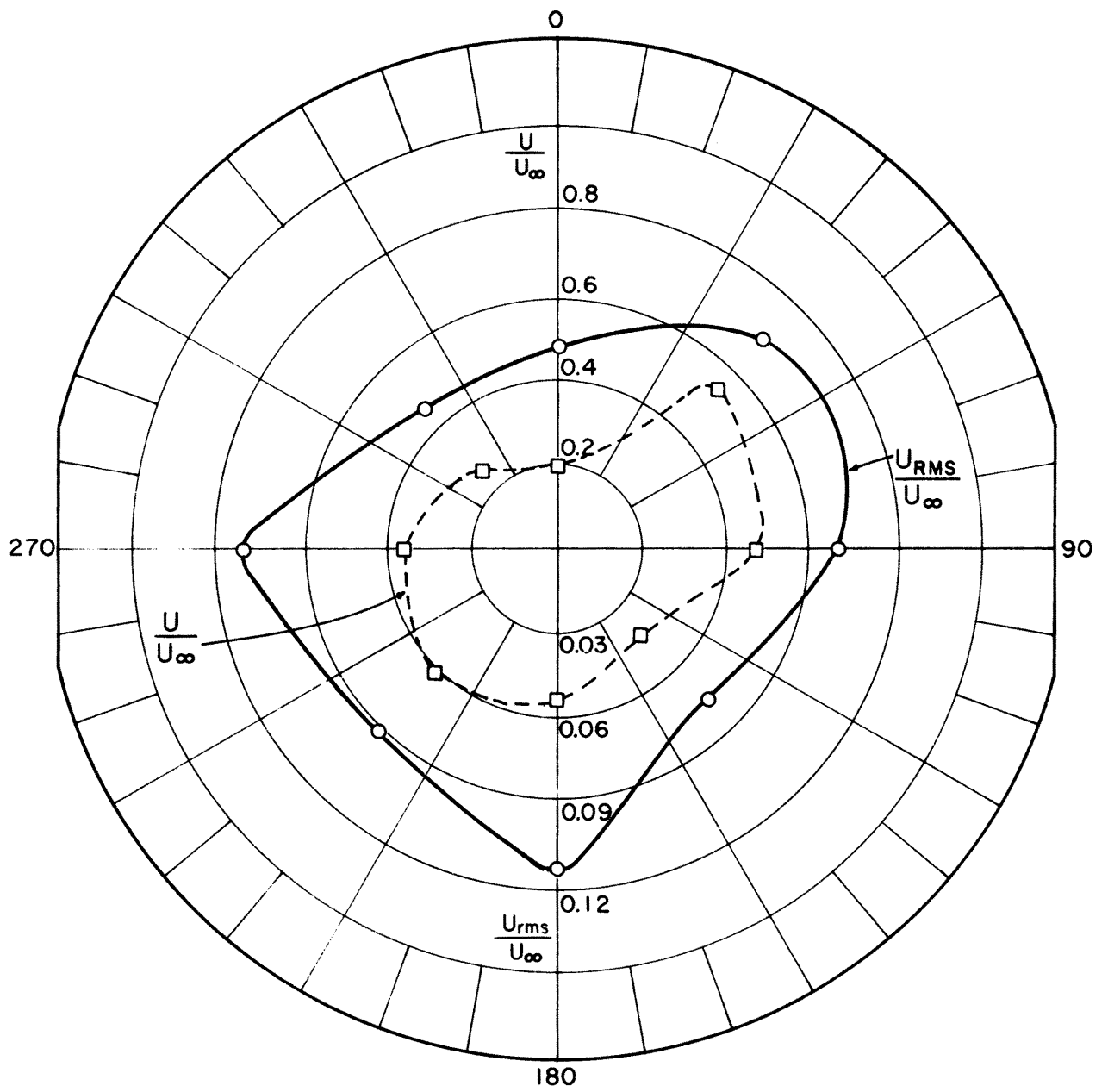


Figure 12. Phase I, Location 4.

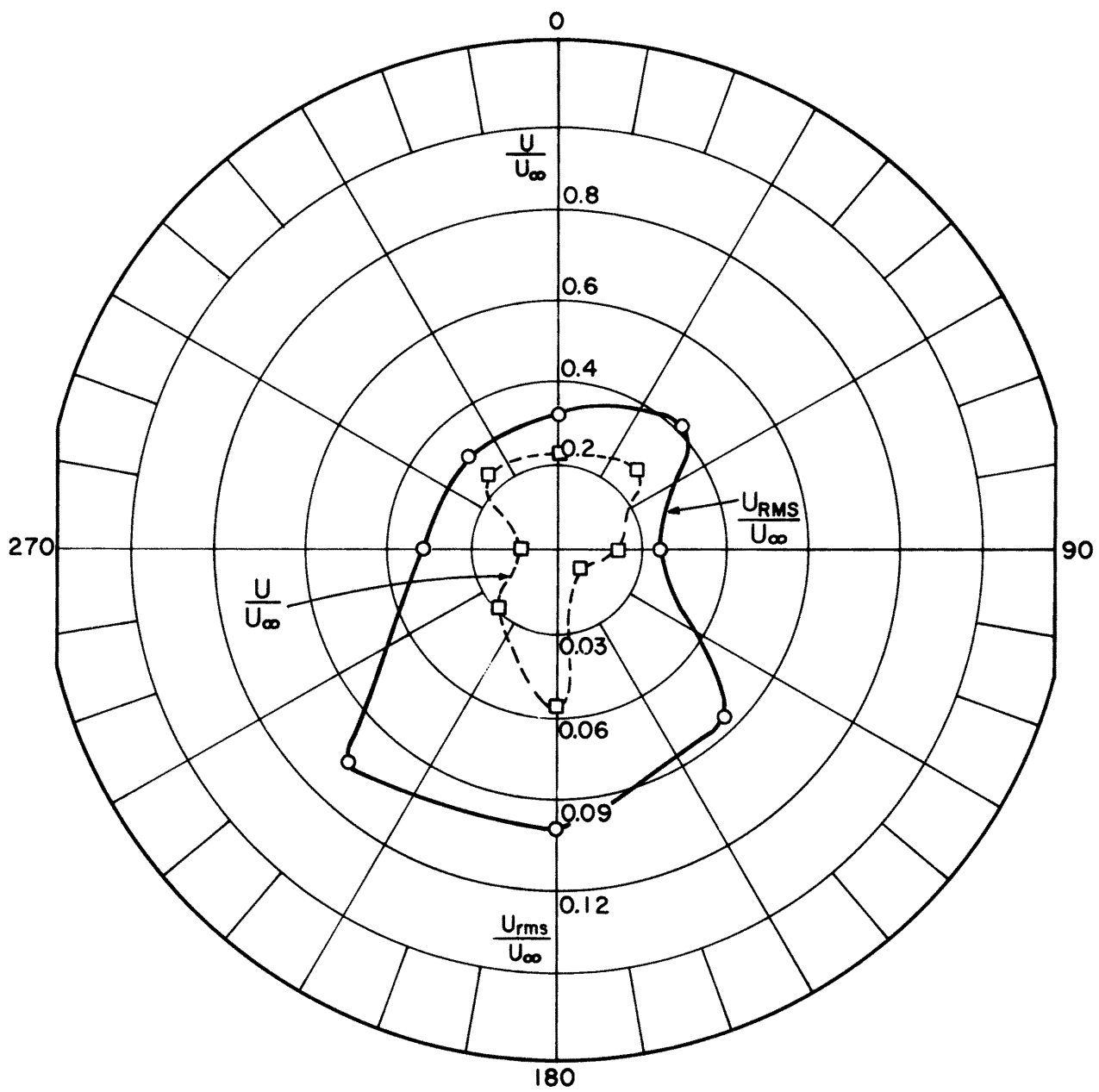


Figure 13. Phase I, Location 8.

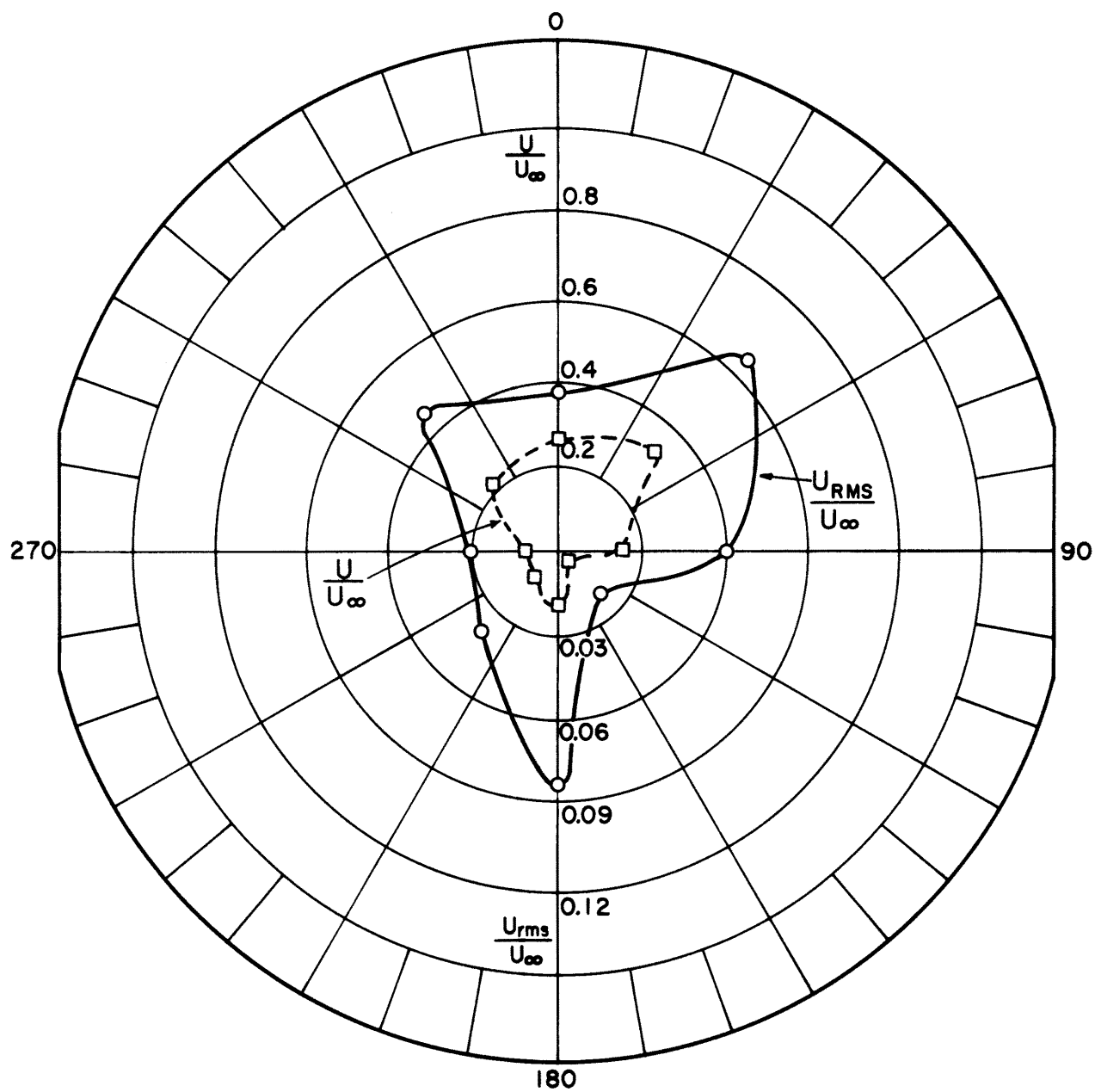


Figure 14. Phase I, Location 9.

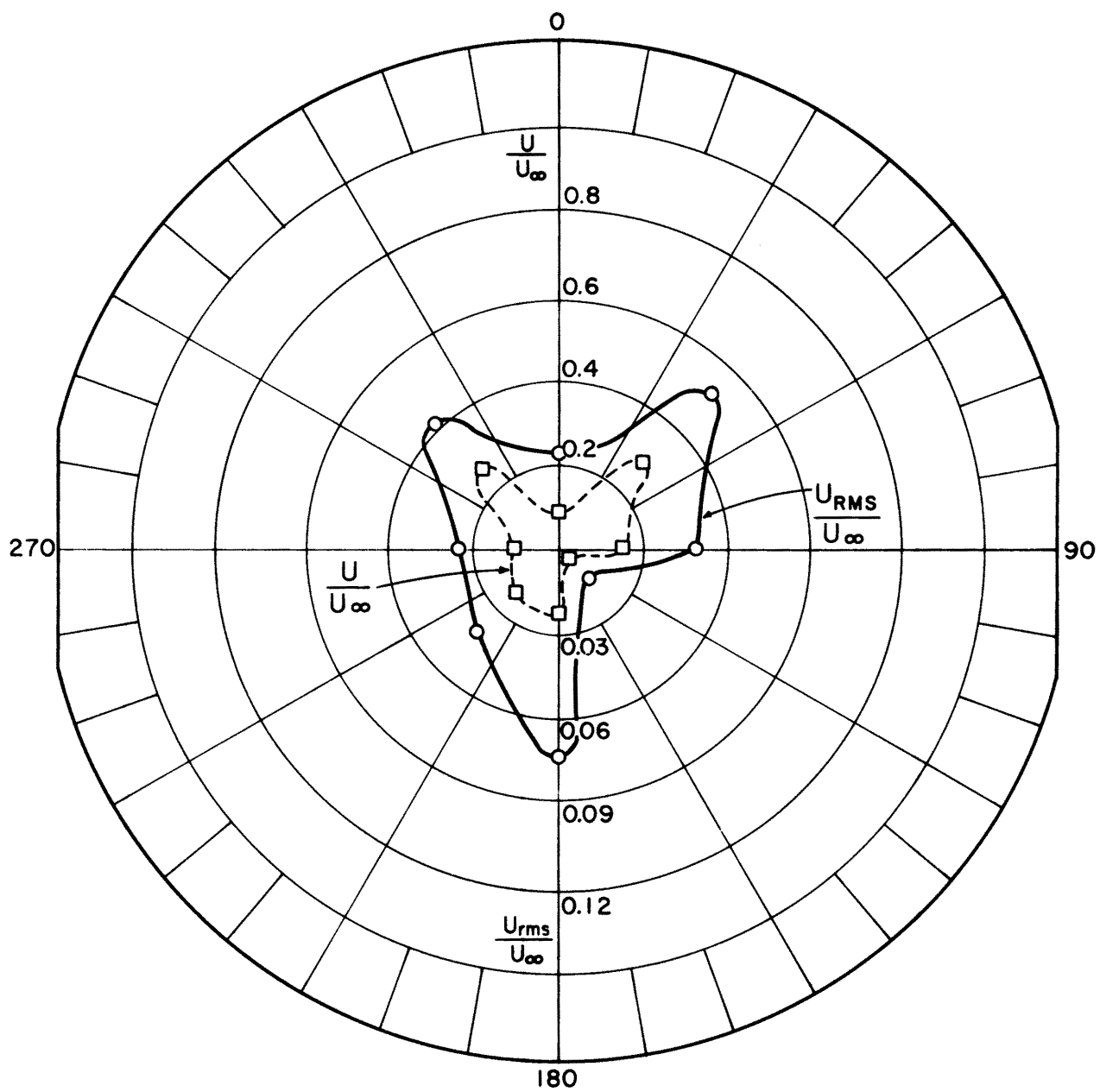


Figure 15. Phase I, Location 10.

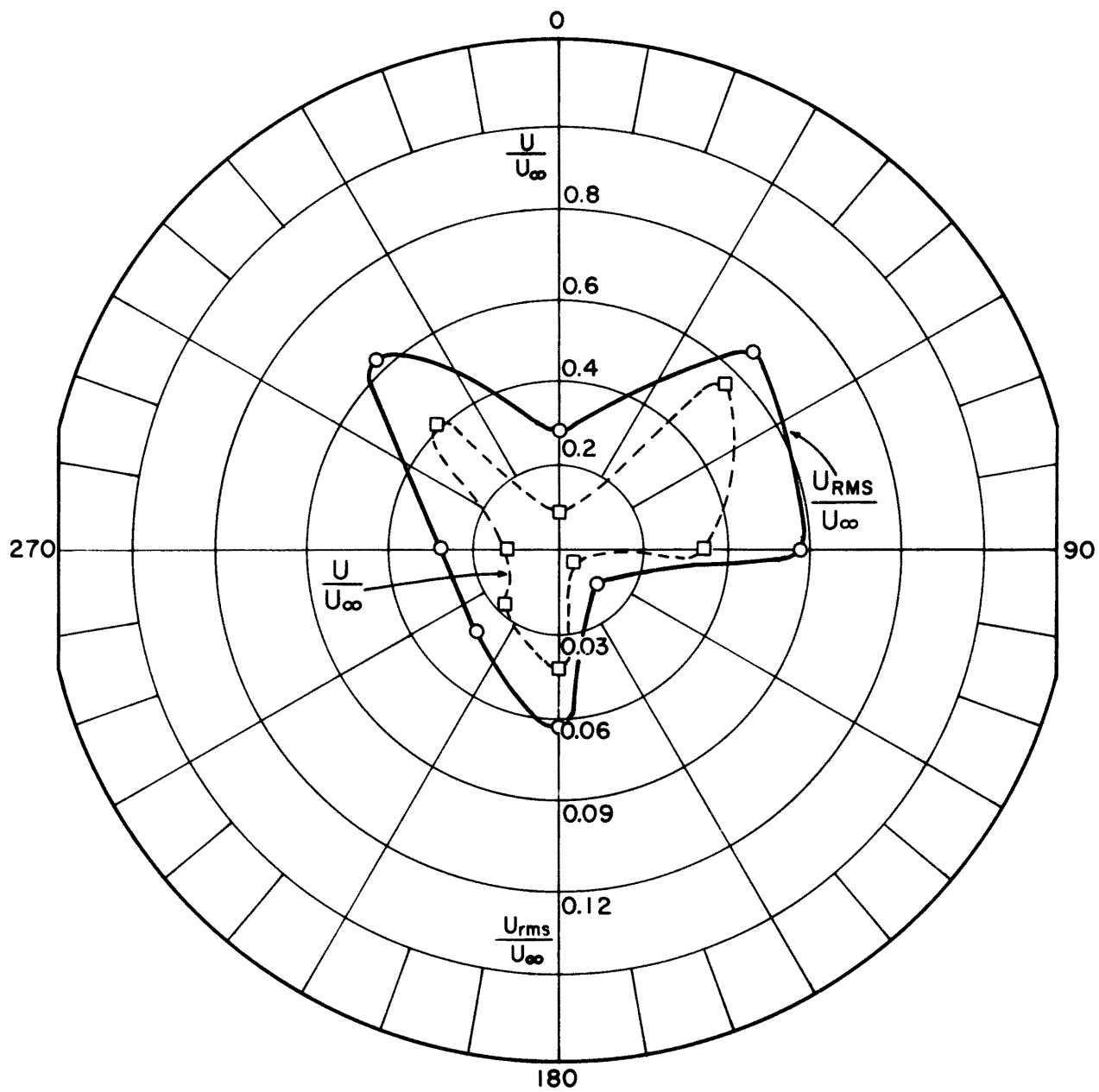


Figure 16. Phase I, Location 11.

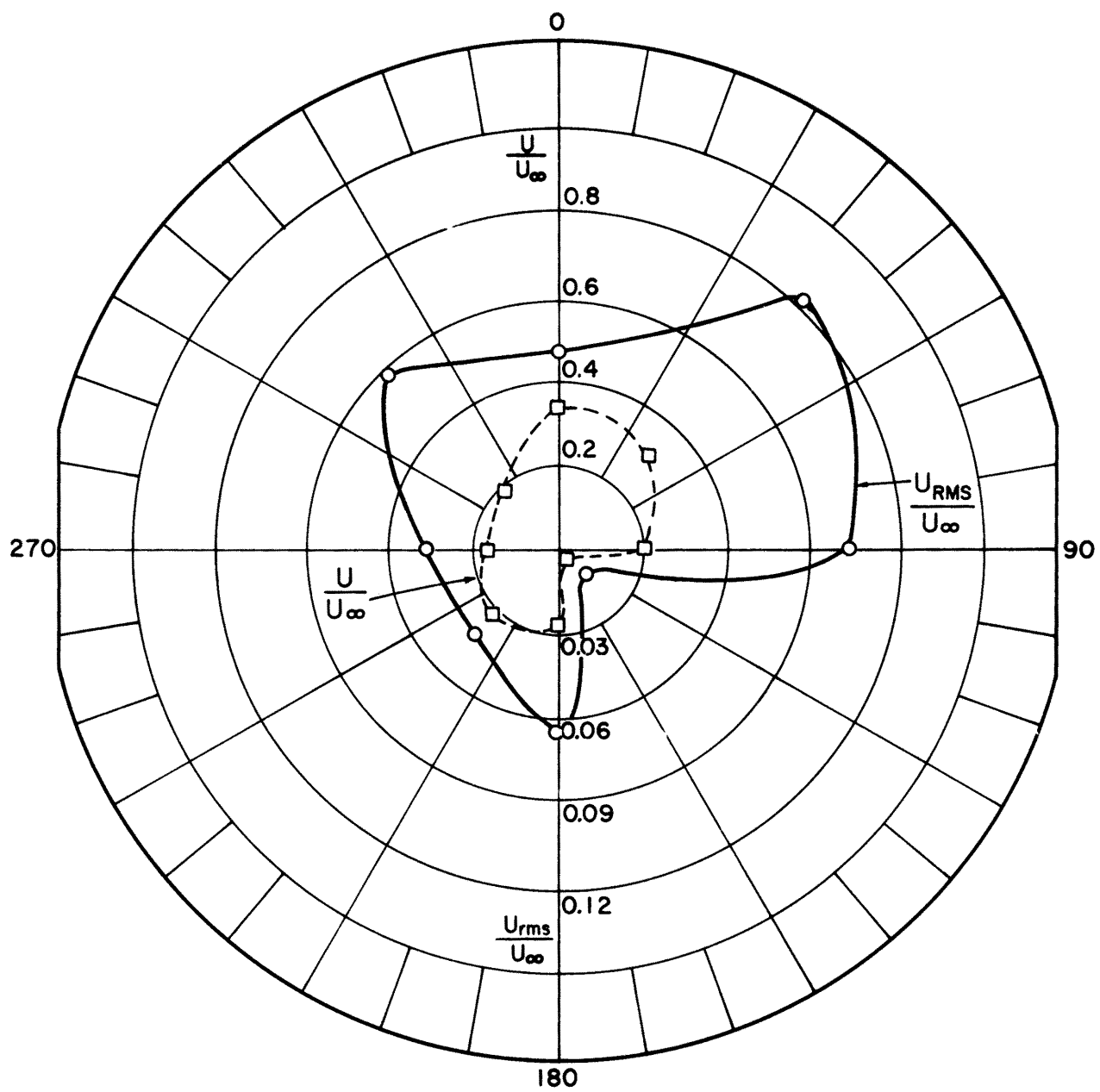


Figure 17. Phase I, Location 12.

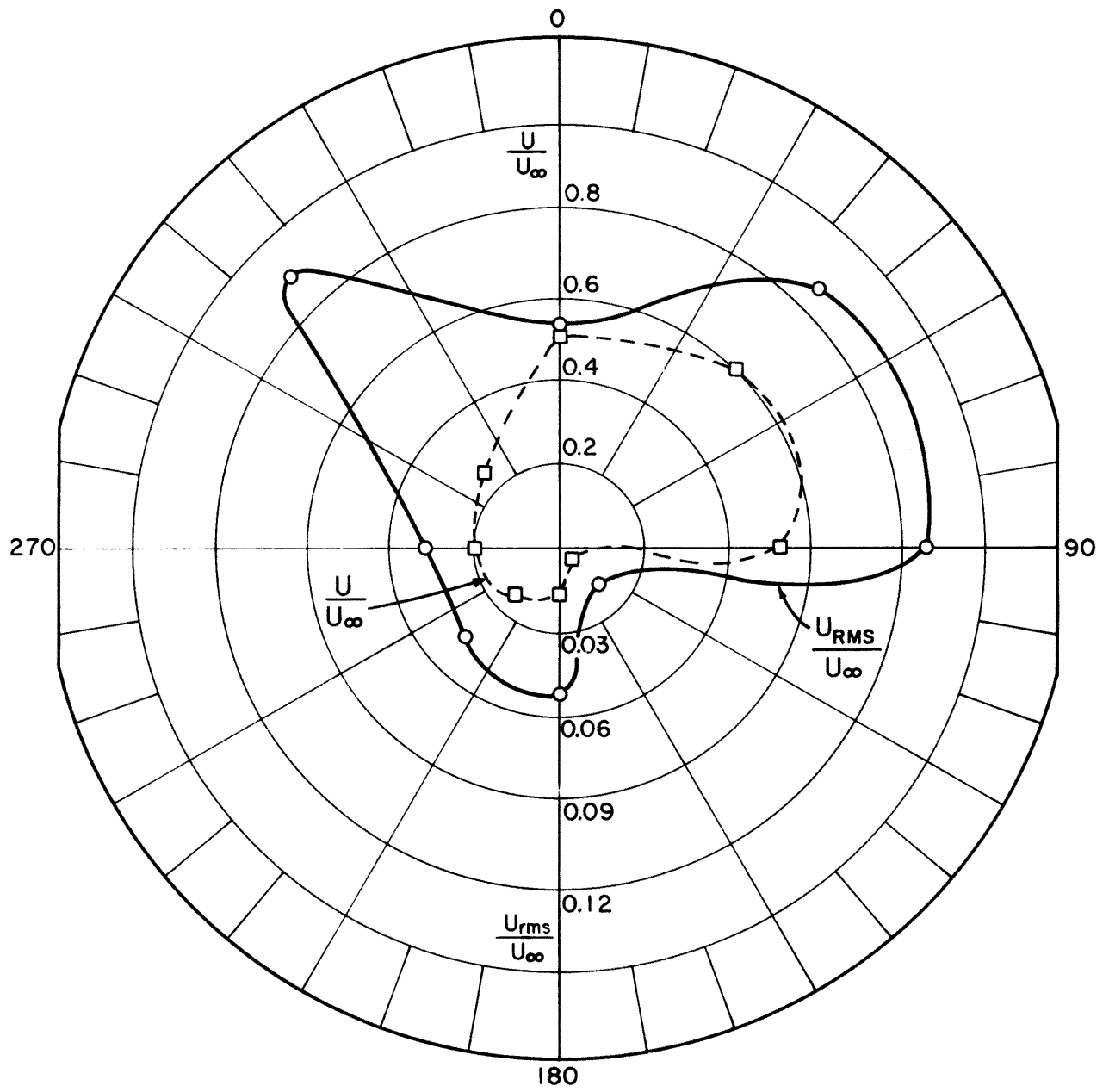


Figure 18. Phase I, Location 13.

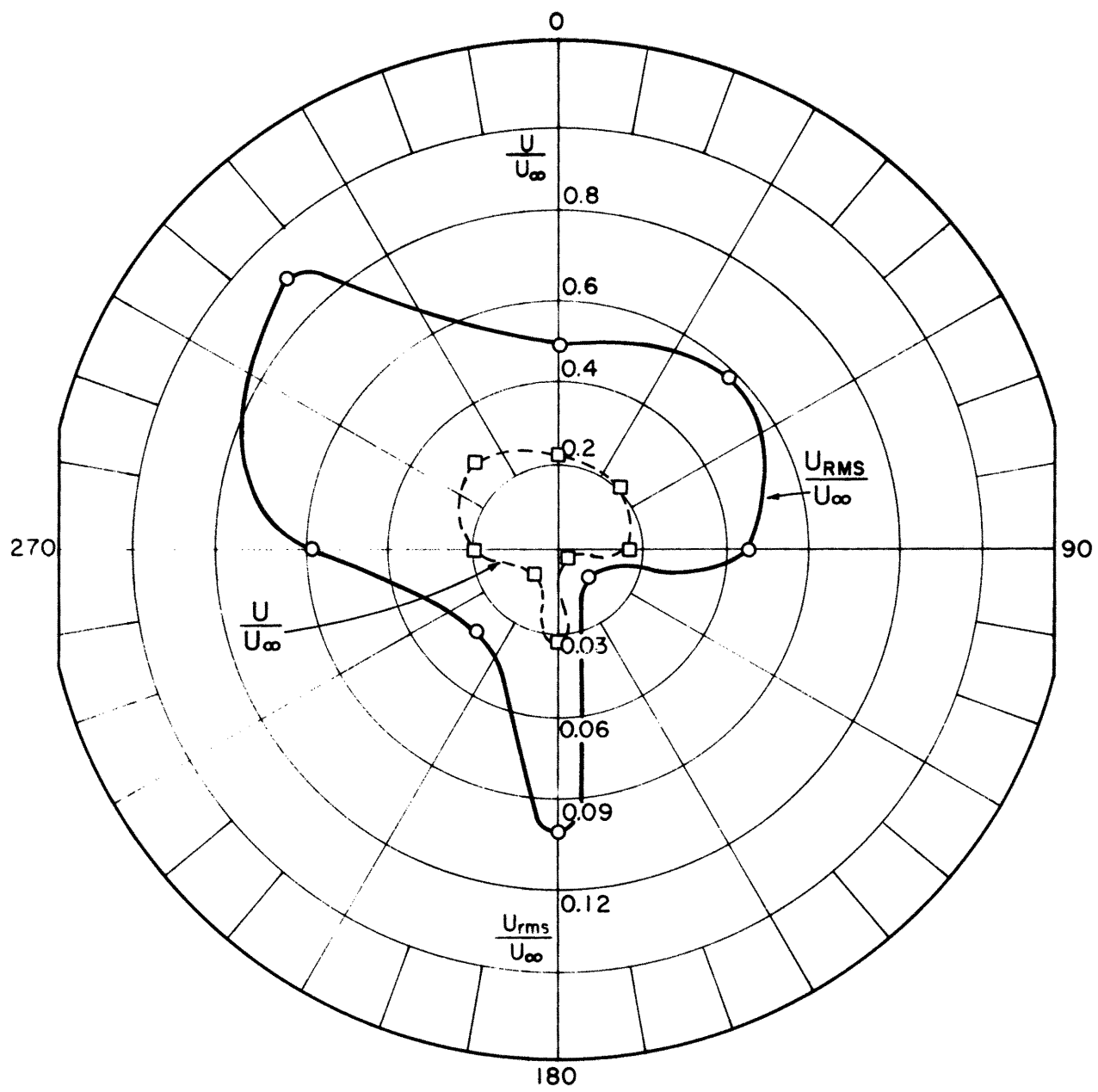


Figure 19. Phase I, Location 14.

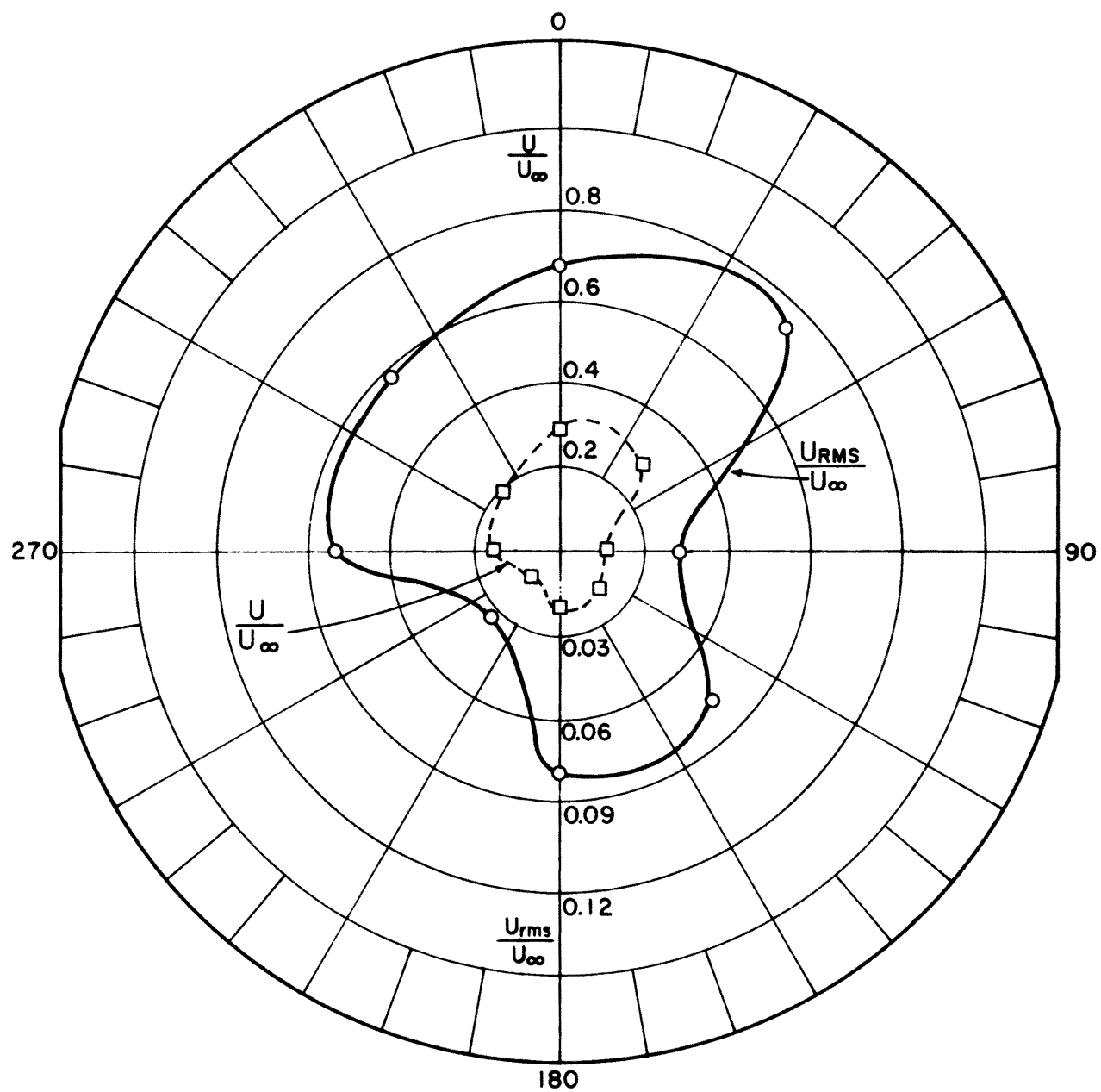


Figure 20. Phase I, Location 15.

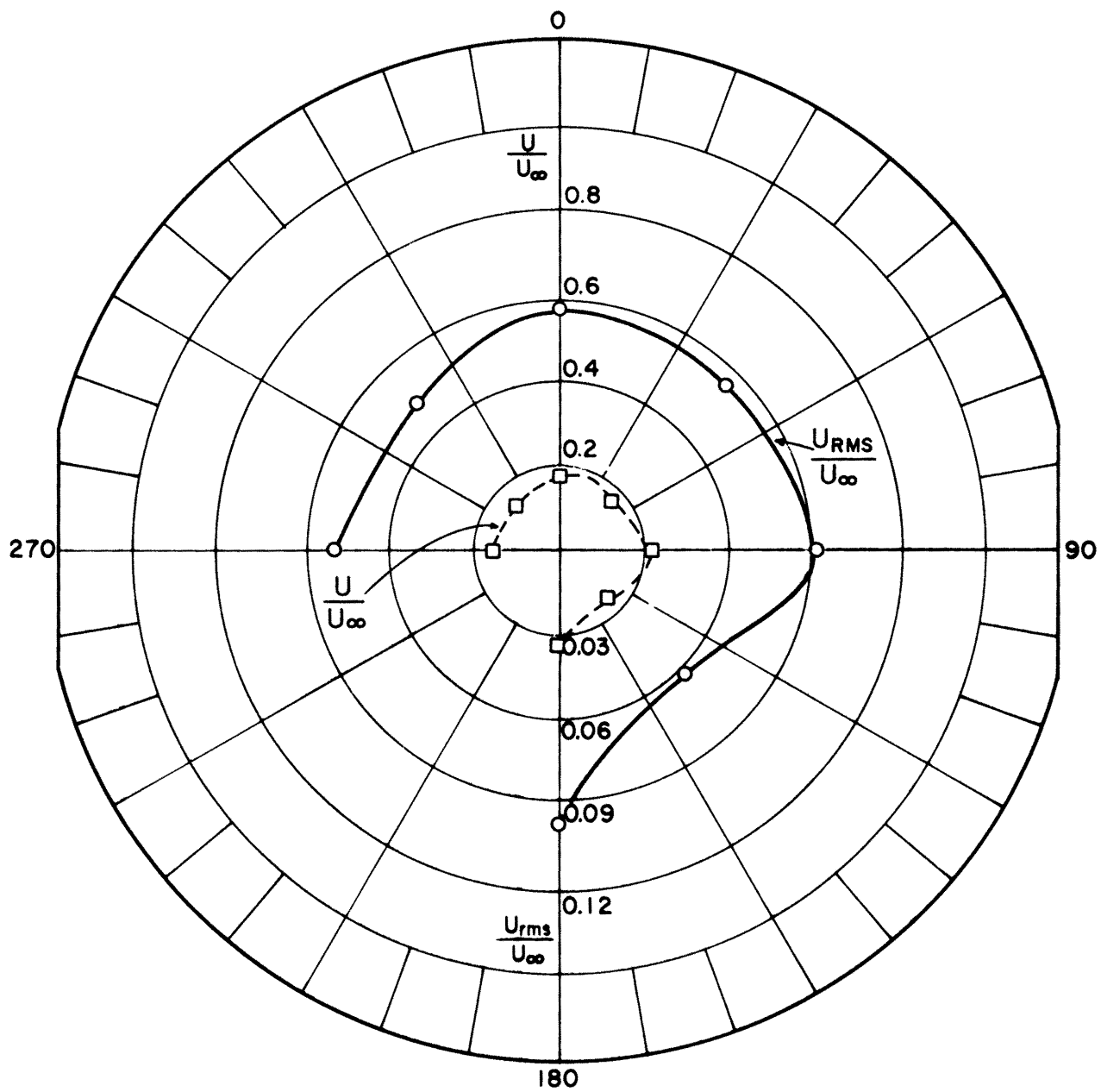


Figure 21. Phase I, Location 16.

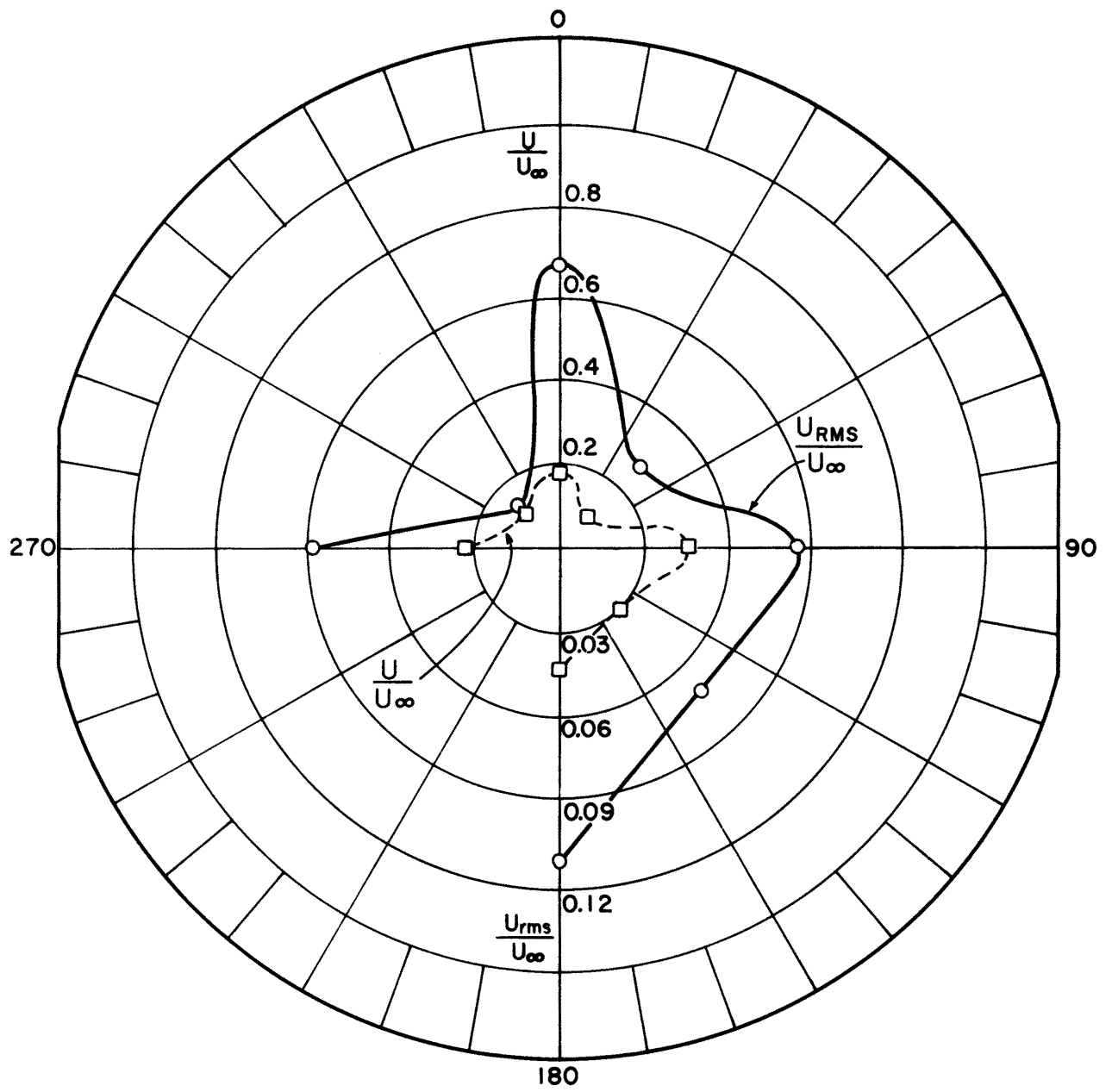


Figure 22. Phase I, Location 17.

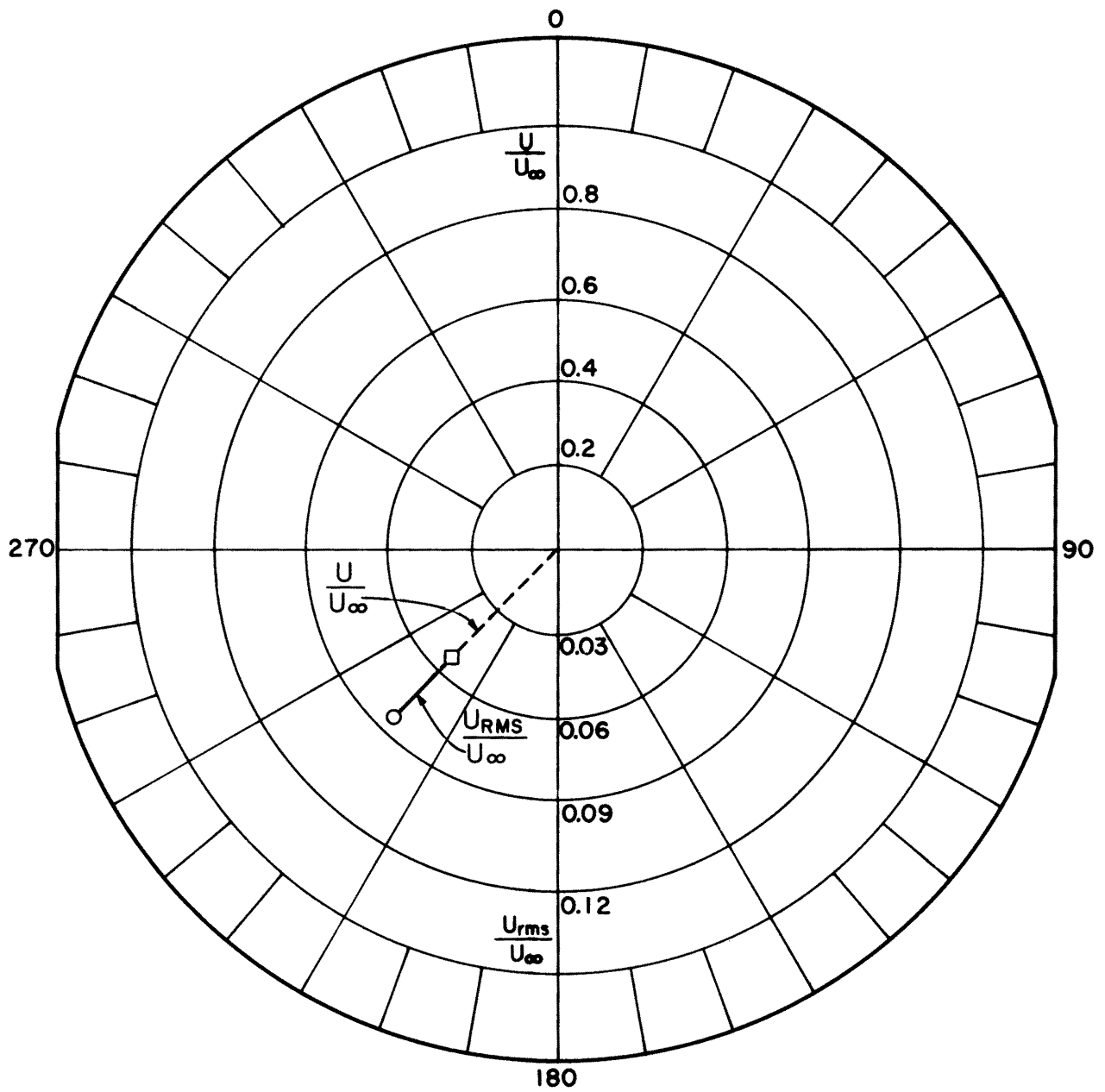


Figure 23. Phase I, Location 18.

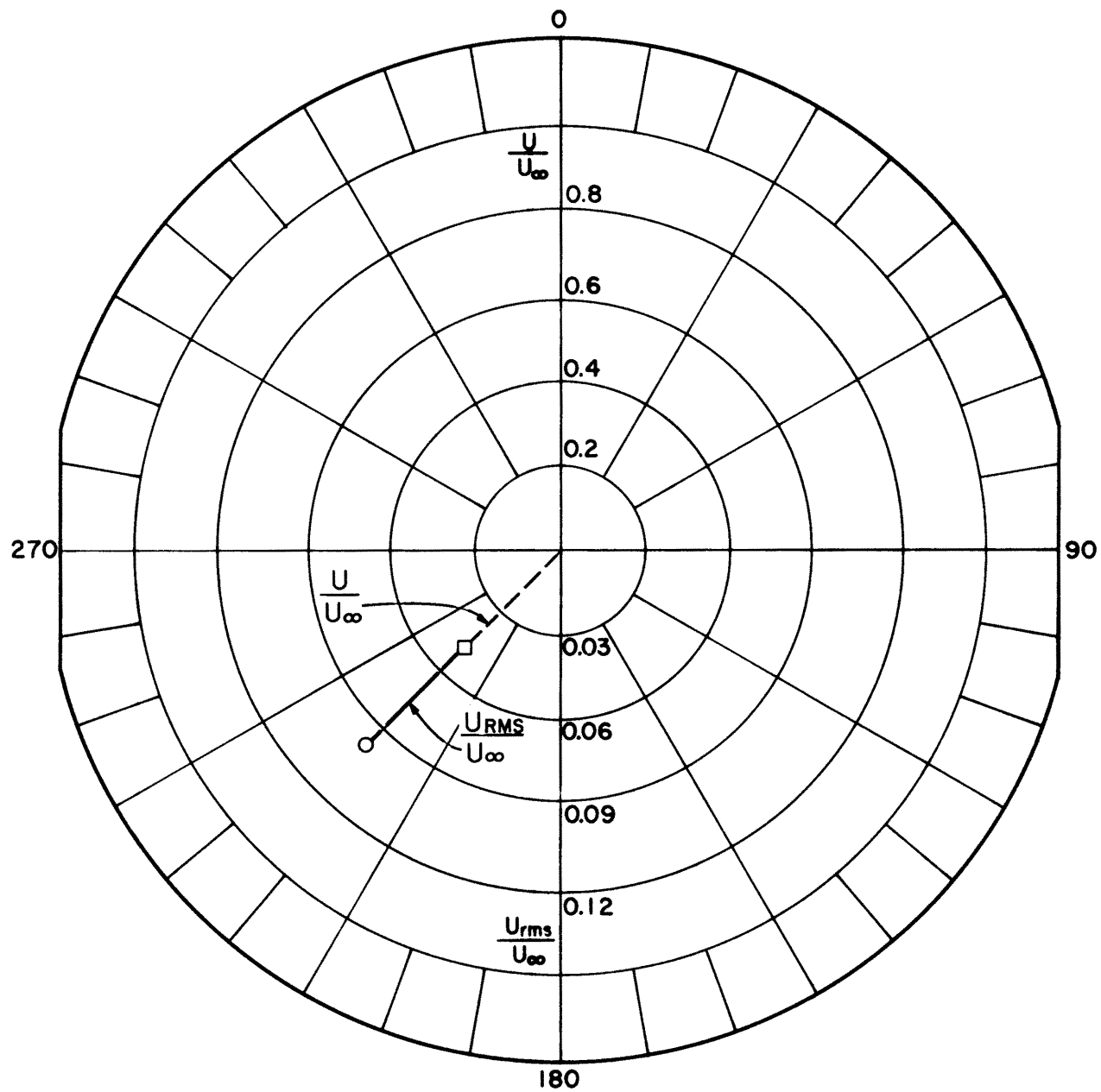


Figure 24. Phase I, Location 19.

Figures 25-42

Hot-Wire Anemometer Data by Model Location for Phase IV.

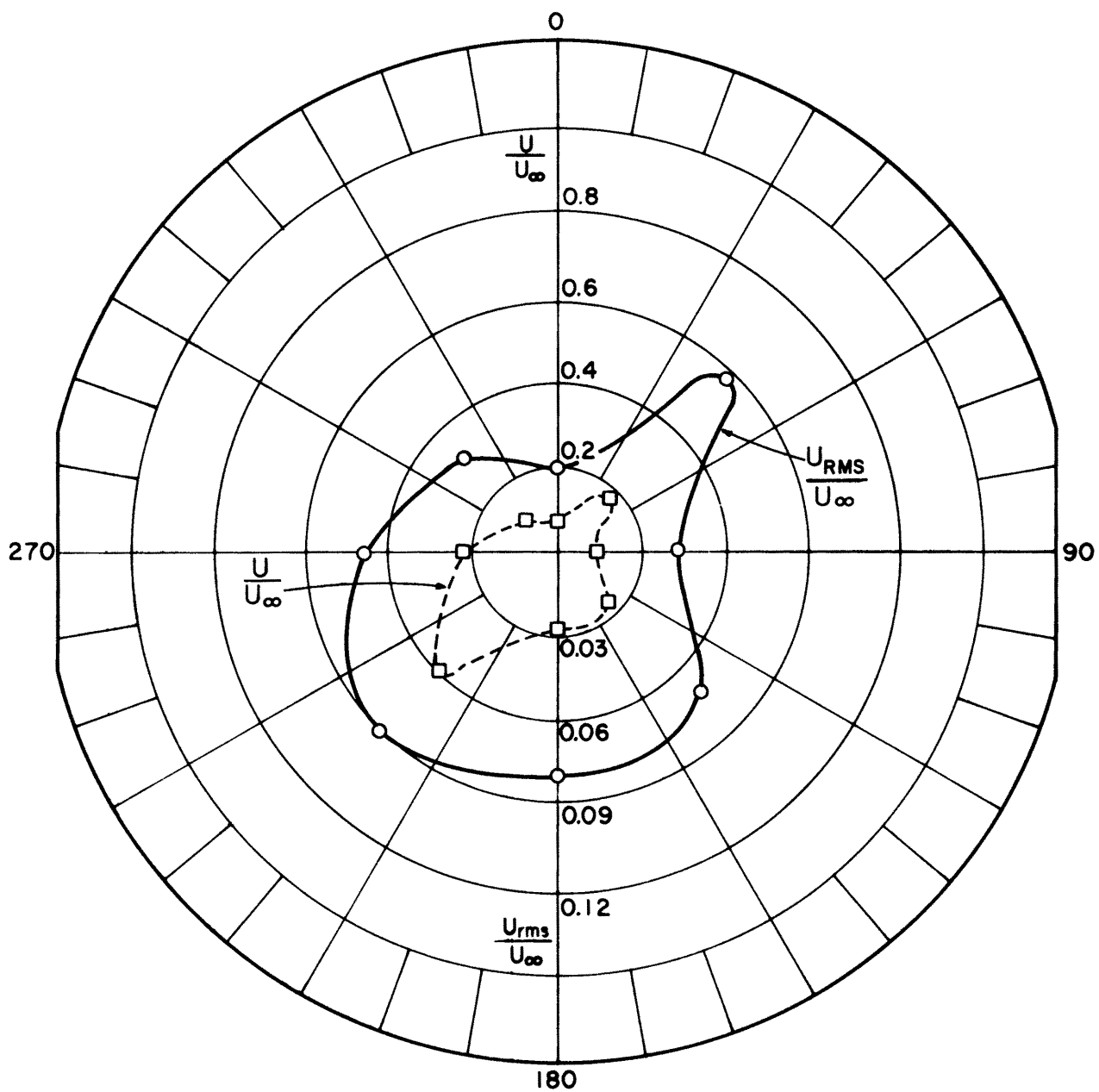


Figure 25. Phase IV, Location 1.

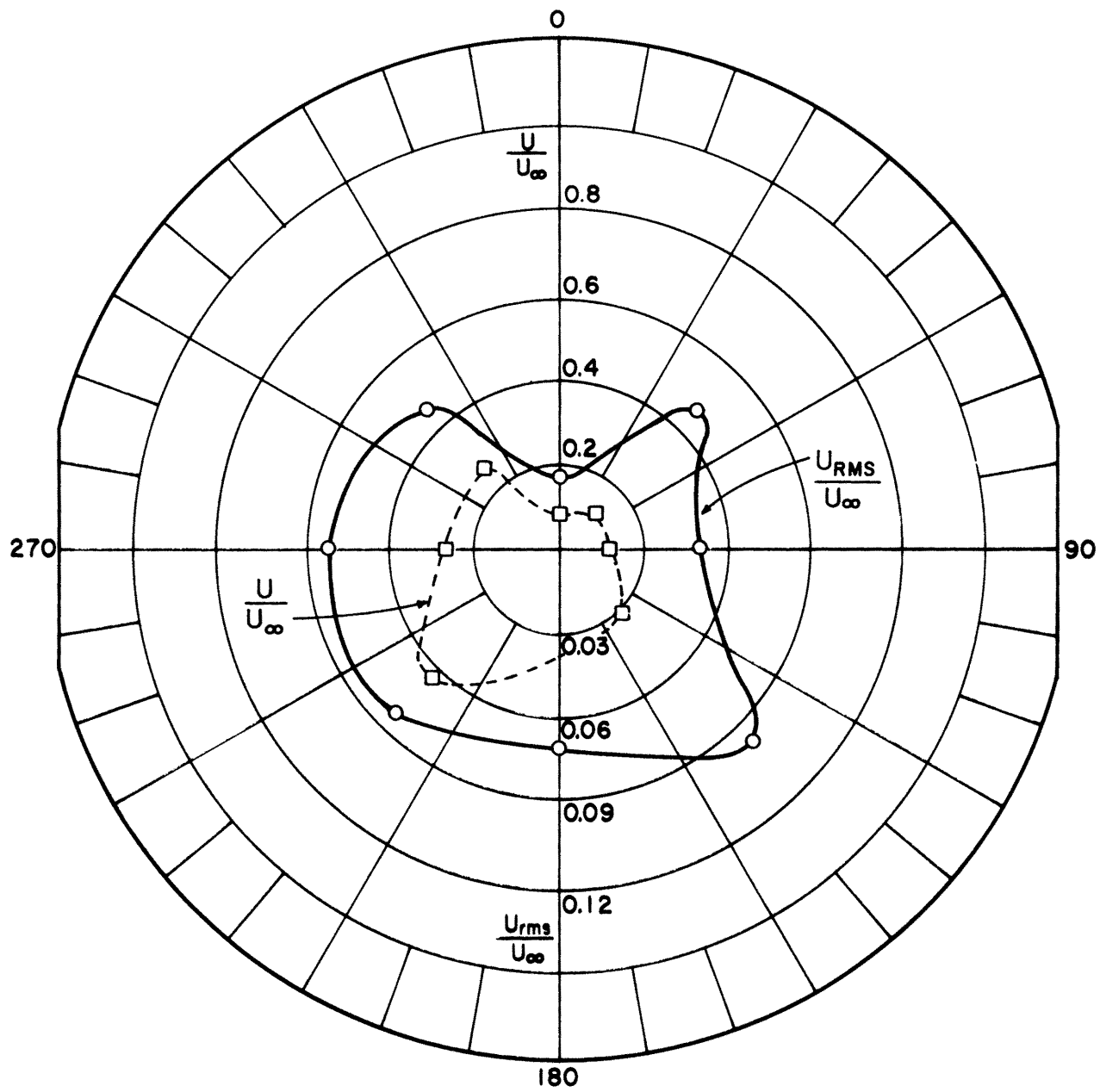


Figure 26. Phase IV, Location 2.

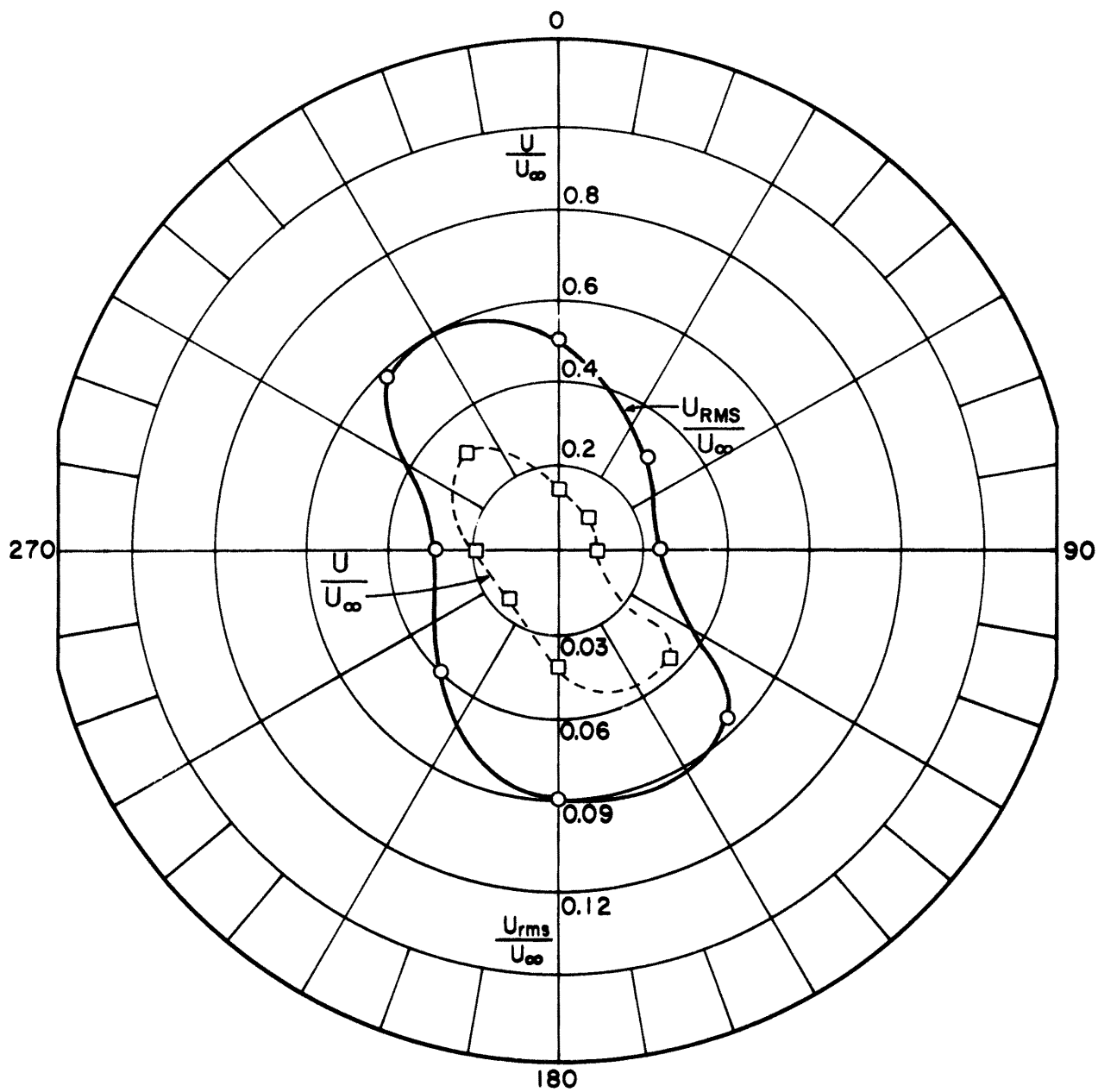


Figure 27. Phase IV, Location 3.

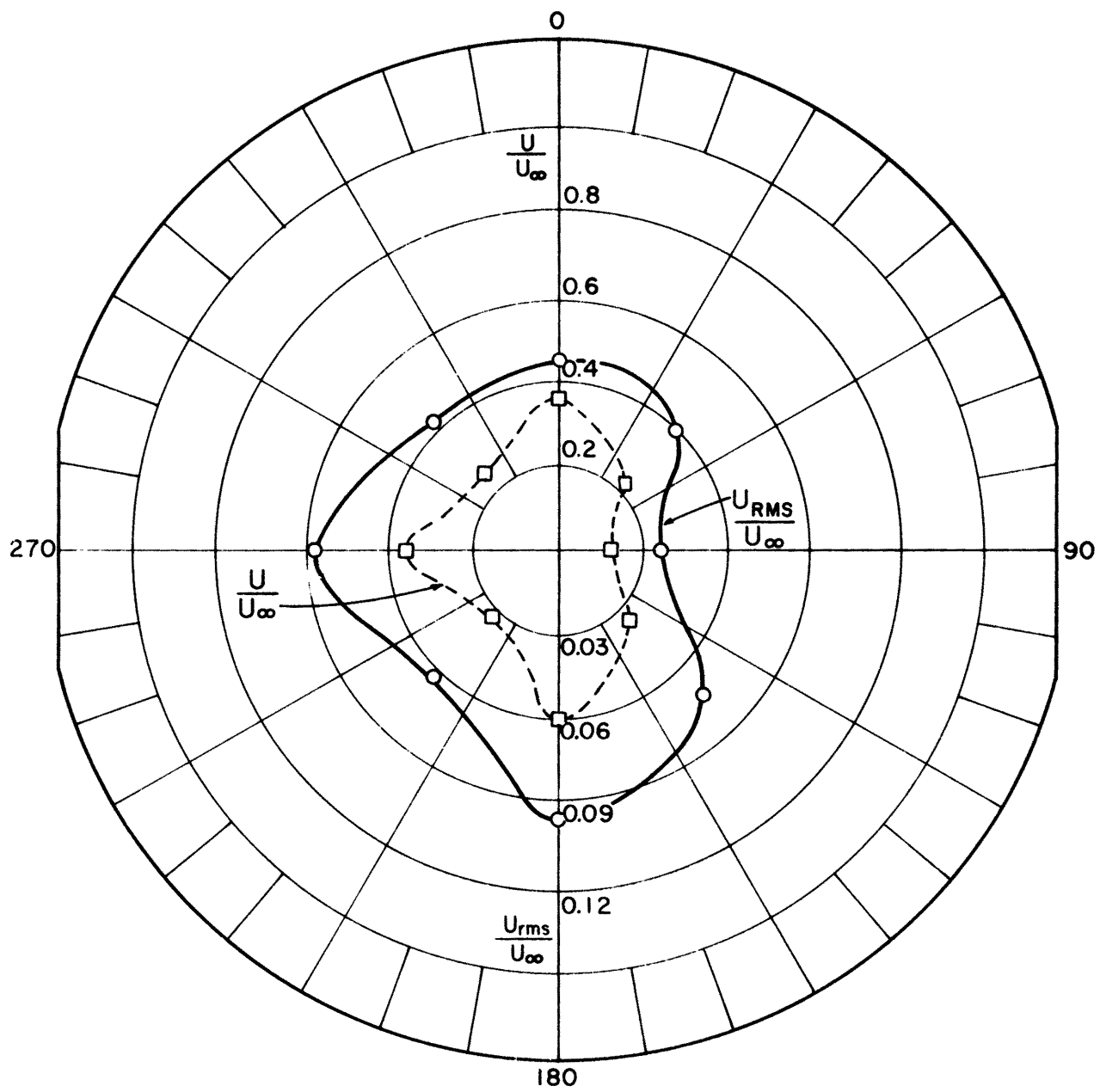


Figure 28. Phase IV, Location 4.

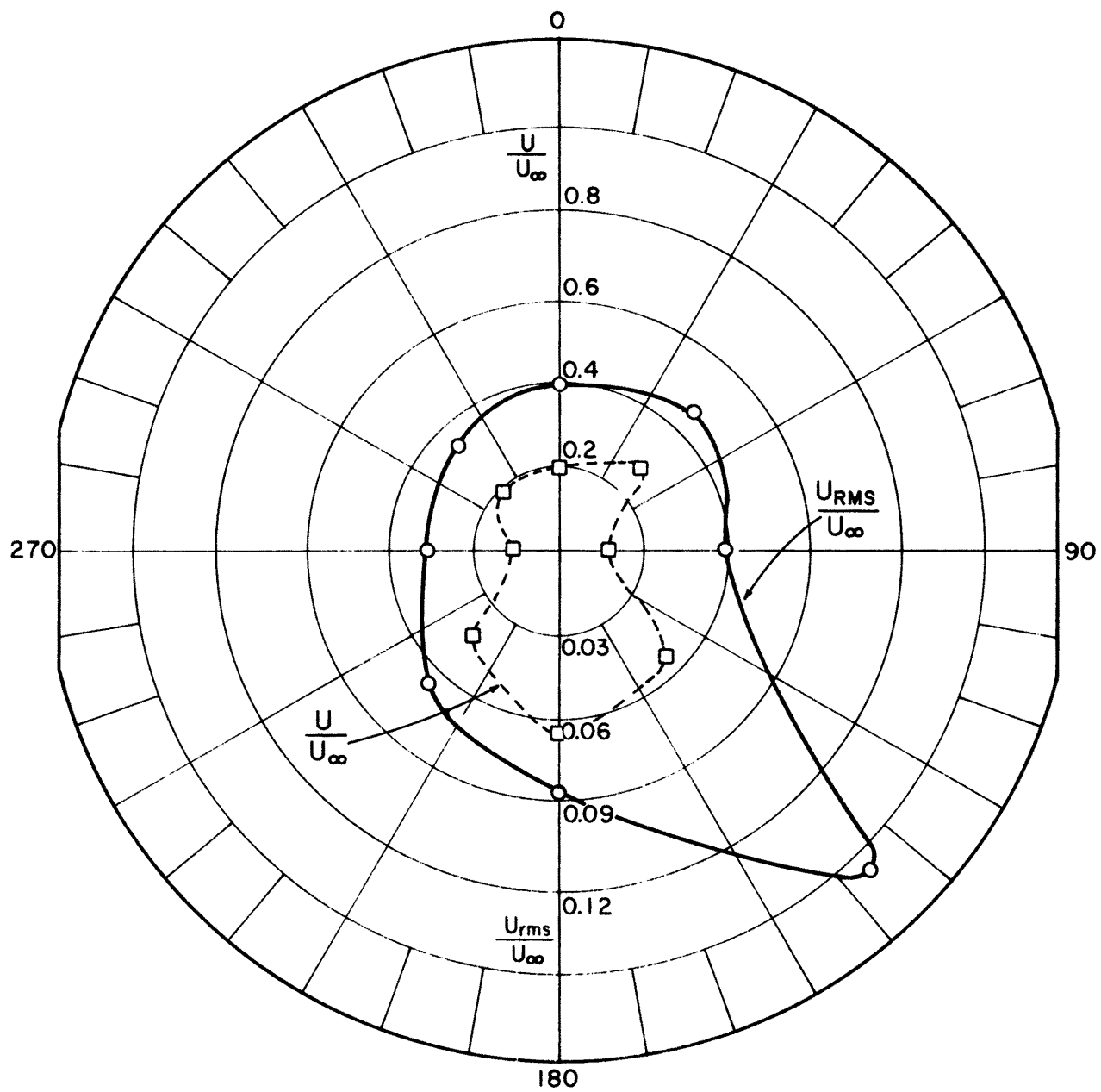


Figure 29. Phase IV, Location 5.

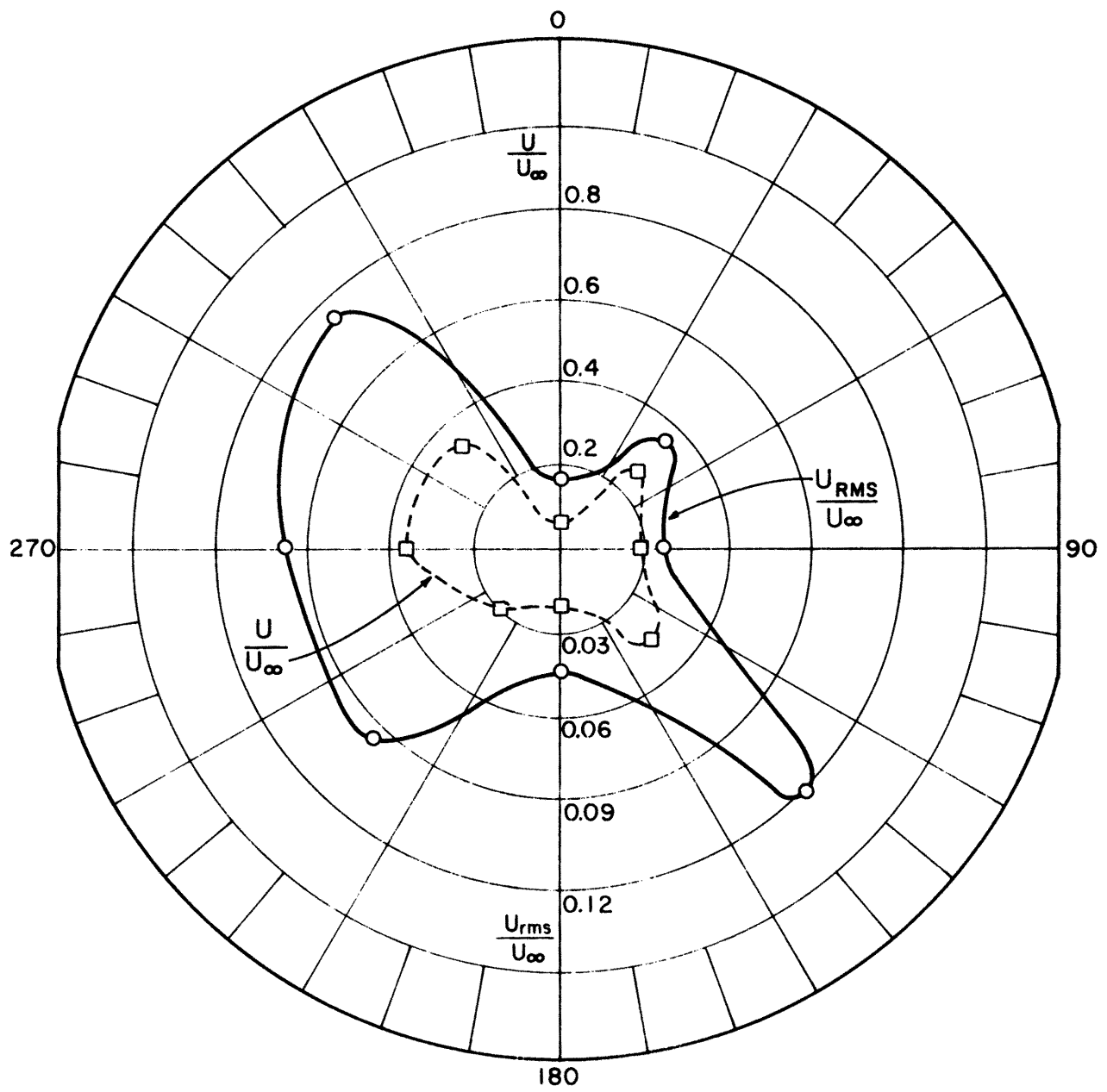


Figure 30. Phase IV, Location 6.

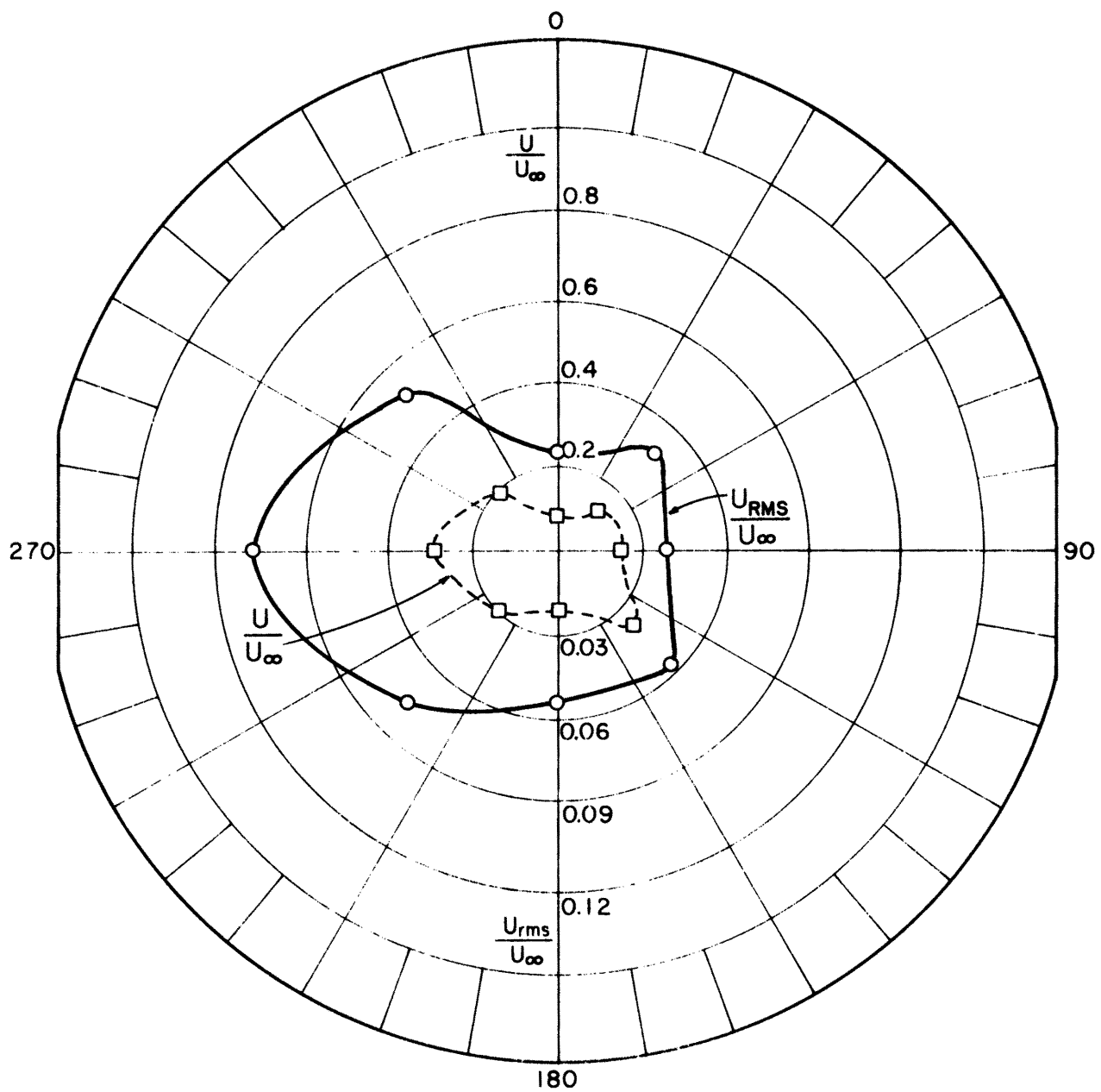


Figure 31. Phase IV, Location 7.

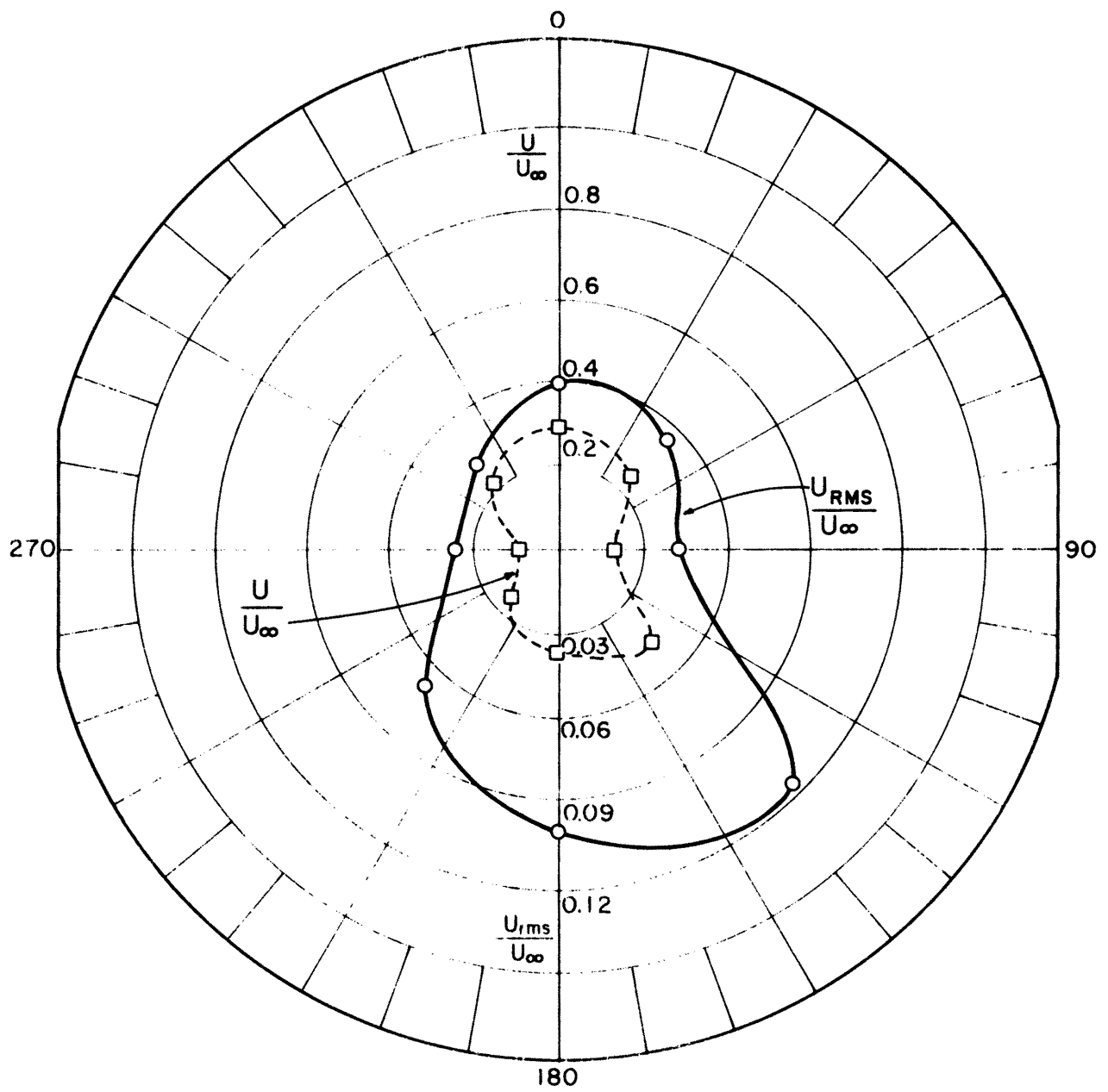


Figure 32. Phase IV, Location 8.

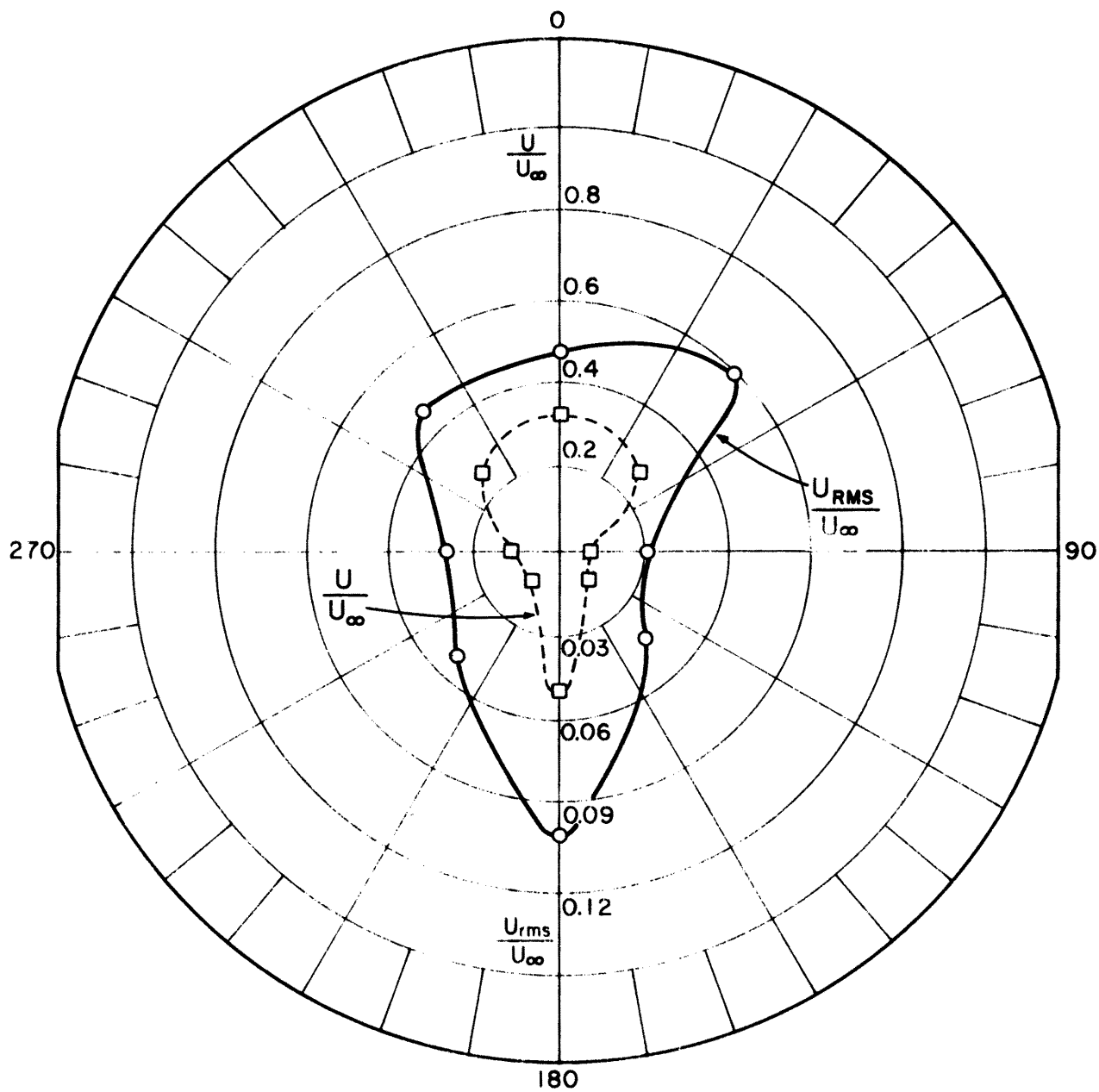


Figure 33. Phase IV, Location 9.

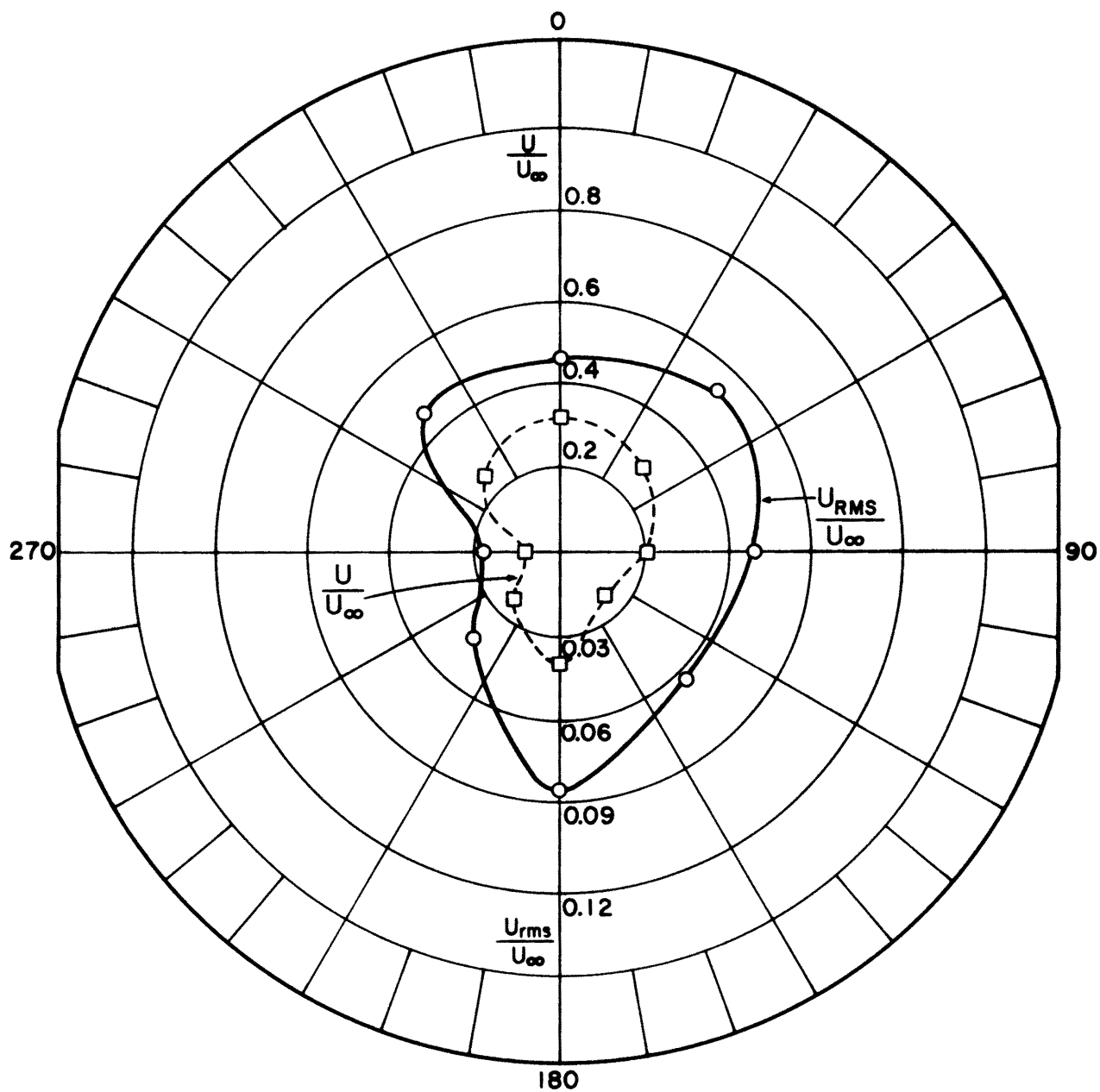


Figure 34. Phase IV, Location 10.

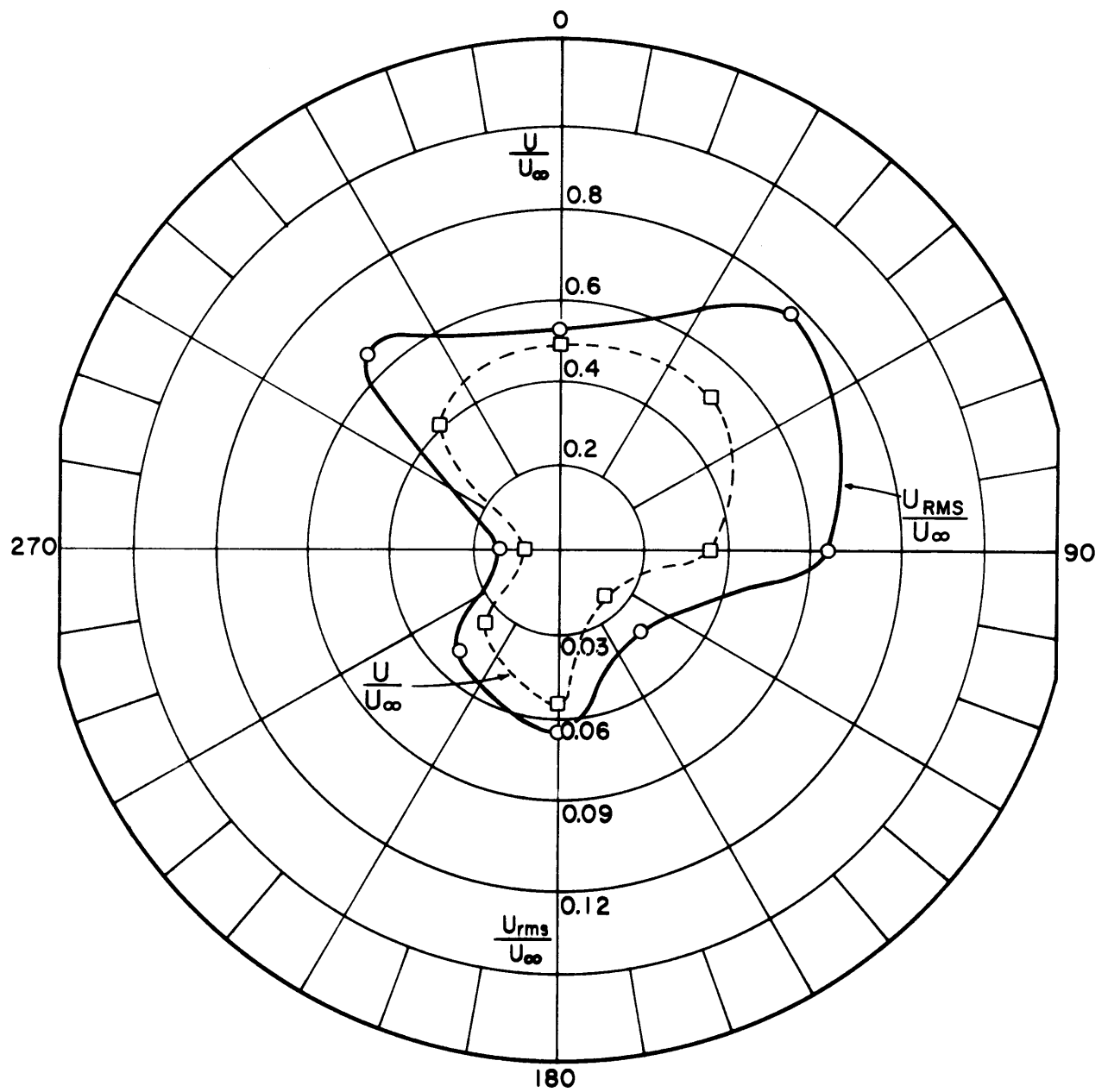


Figure 35. Phase IV, Location 11.

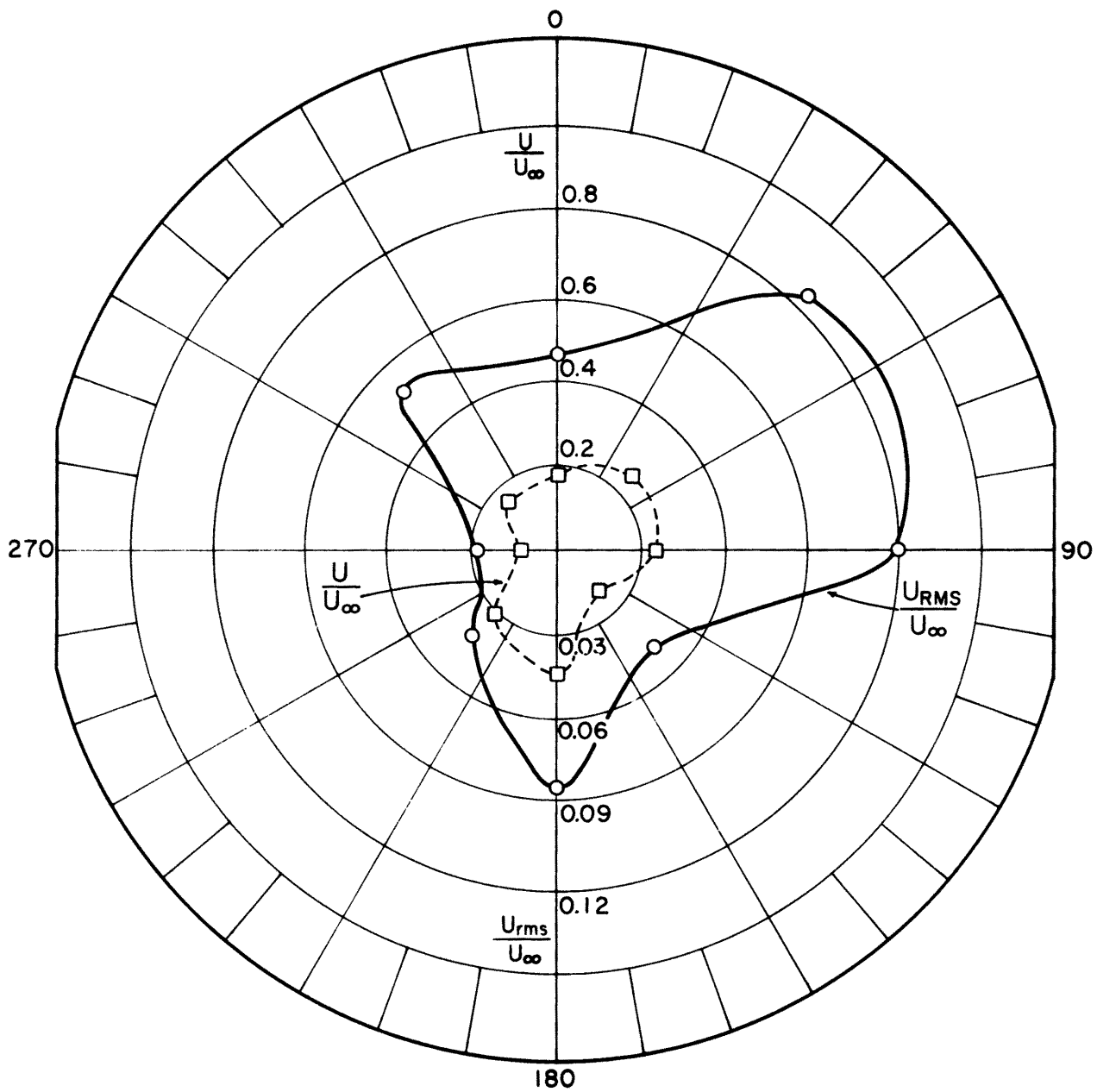


Figure 36. Phase IV, Location 12.

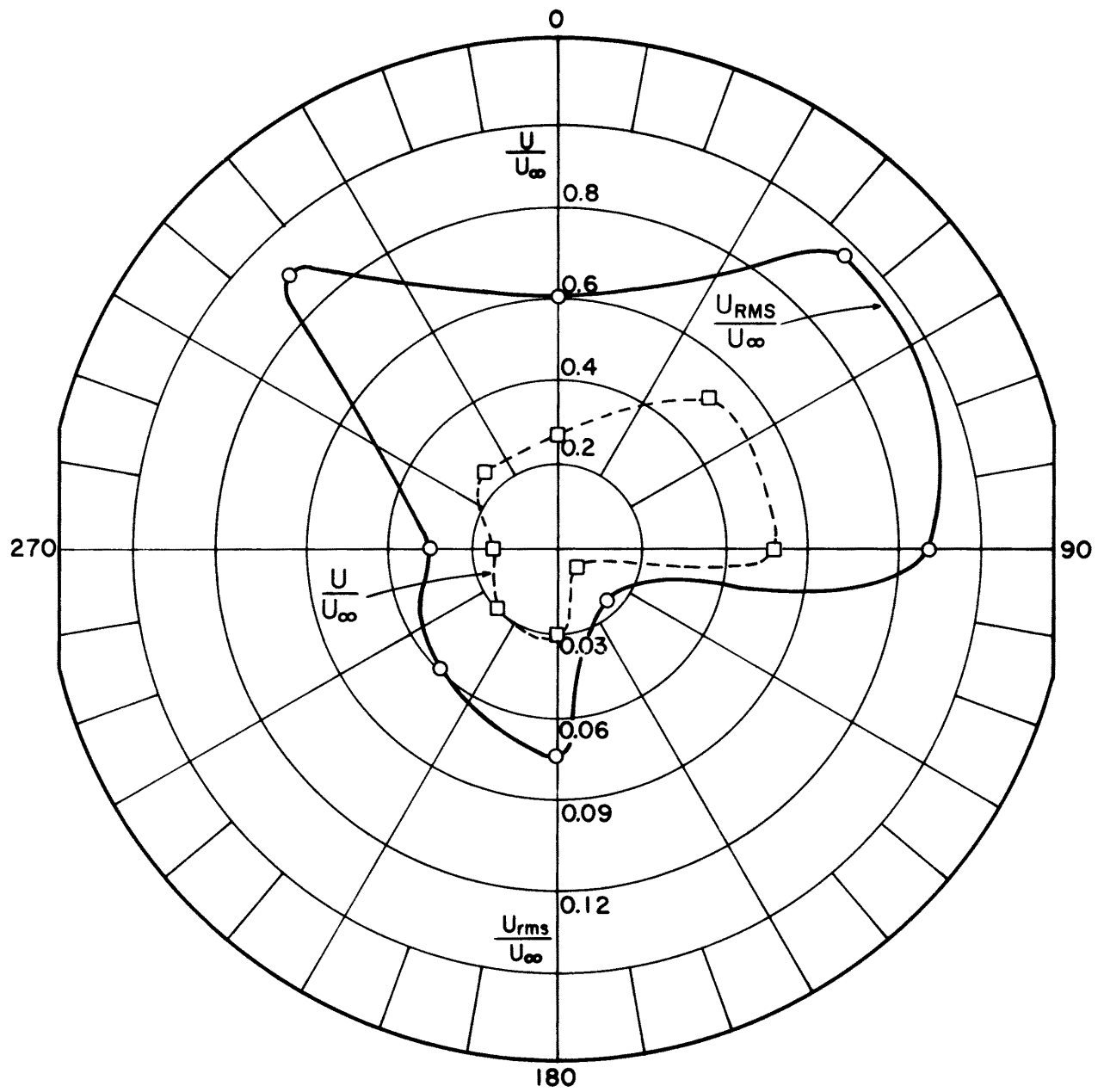


Figure 37. Phase IV, Location 13.

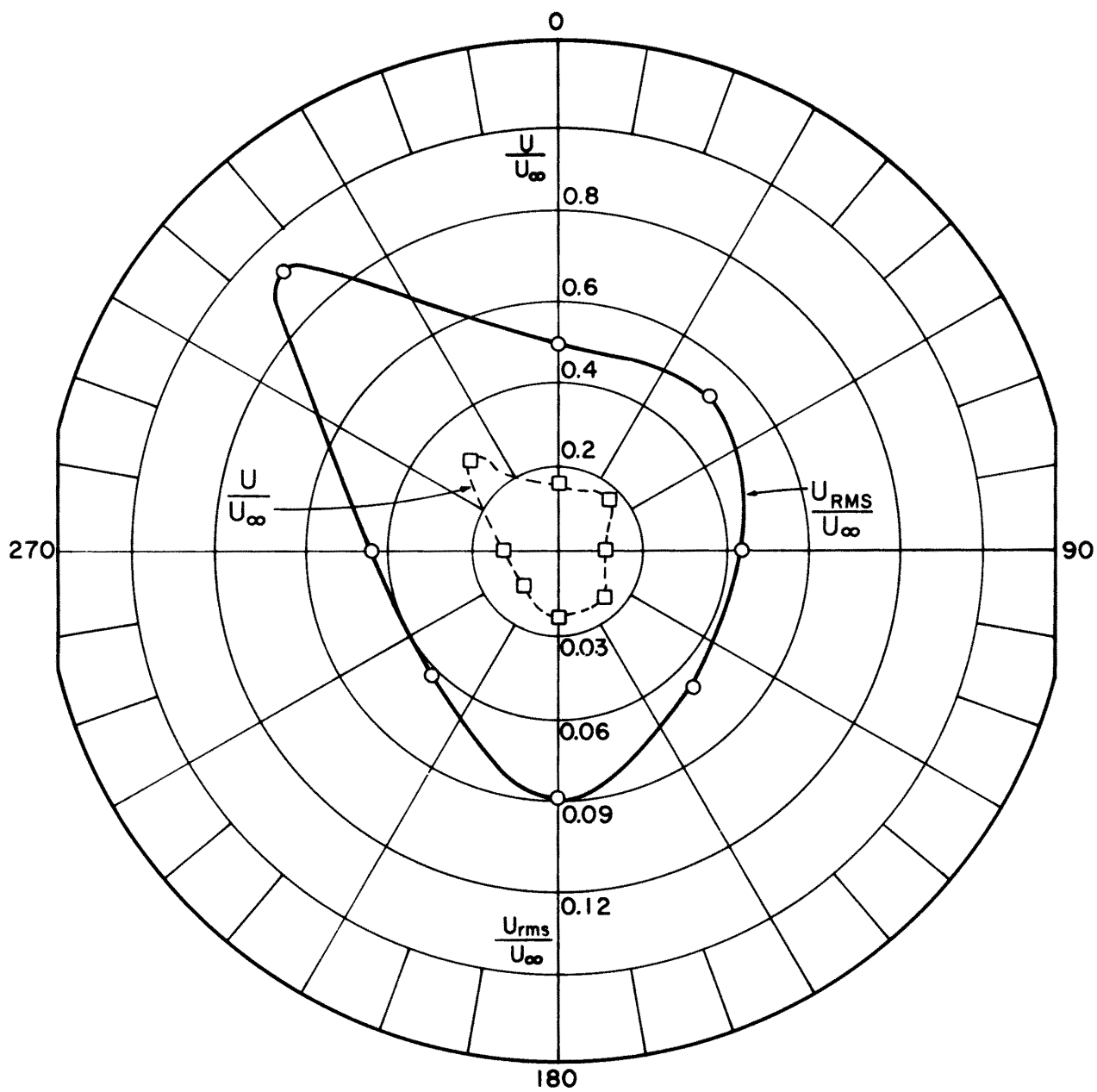


Figure 38. Phase IV, Location 14.

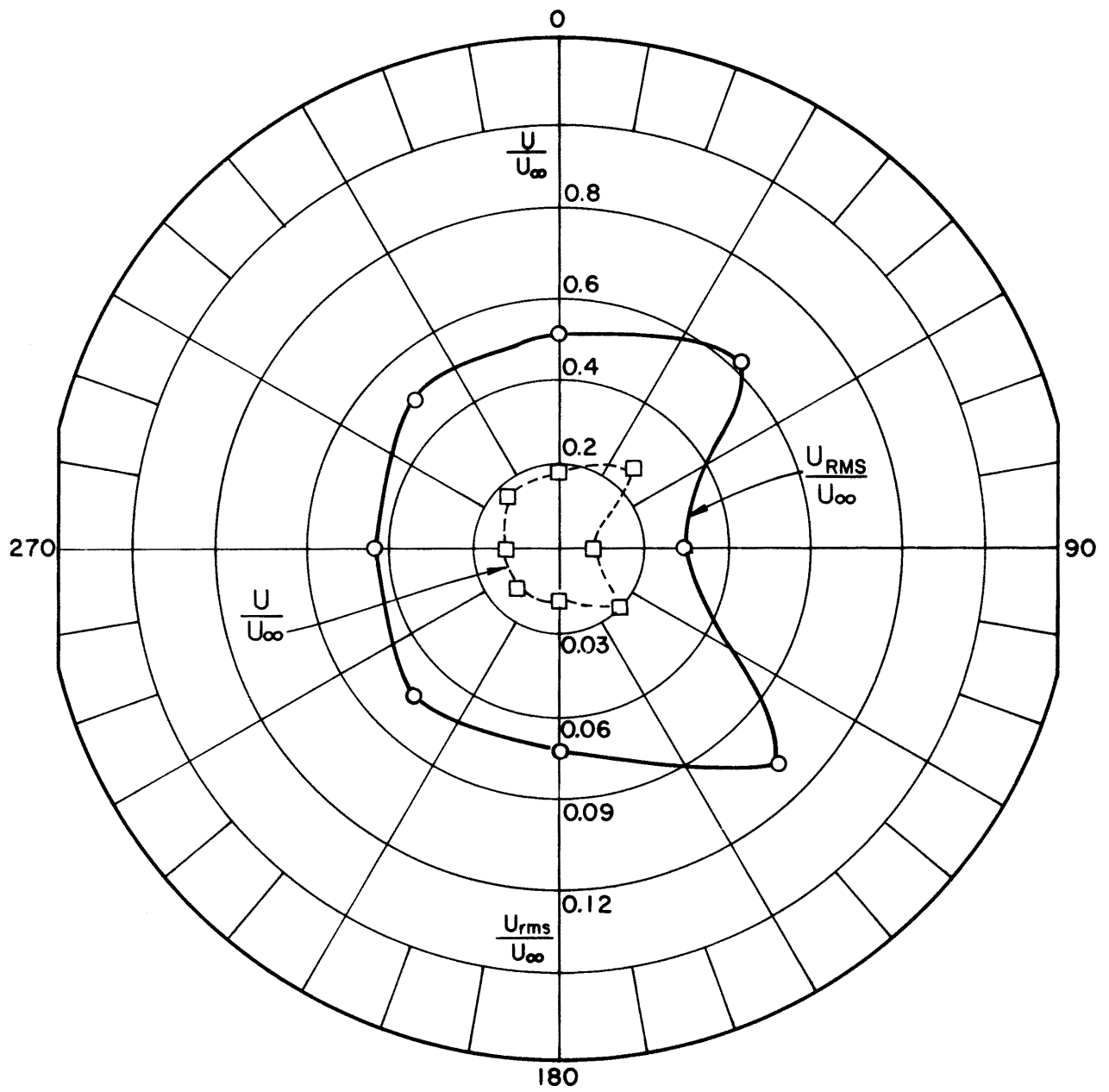


Figure 39. Phase IV, Location 15.

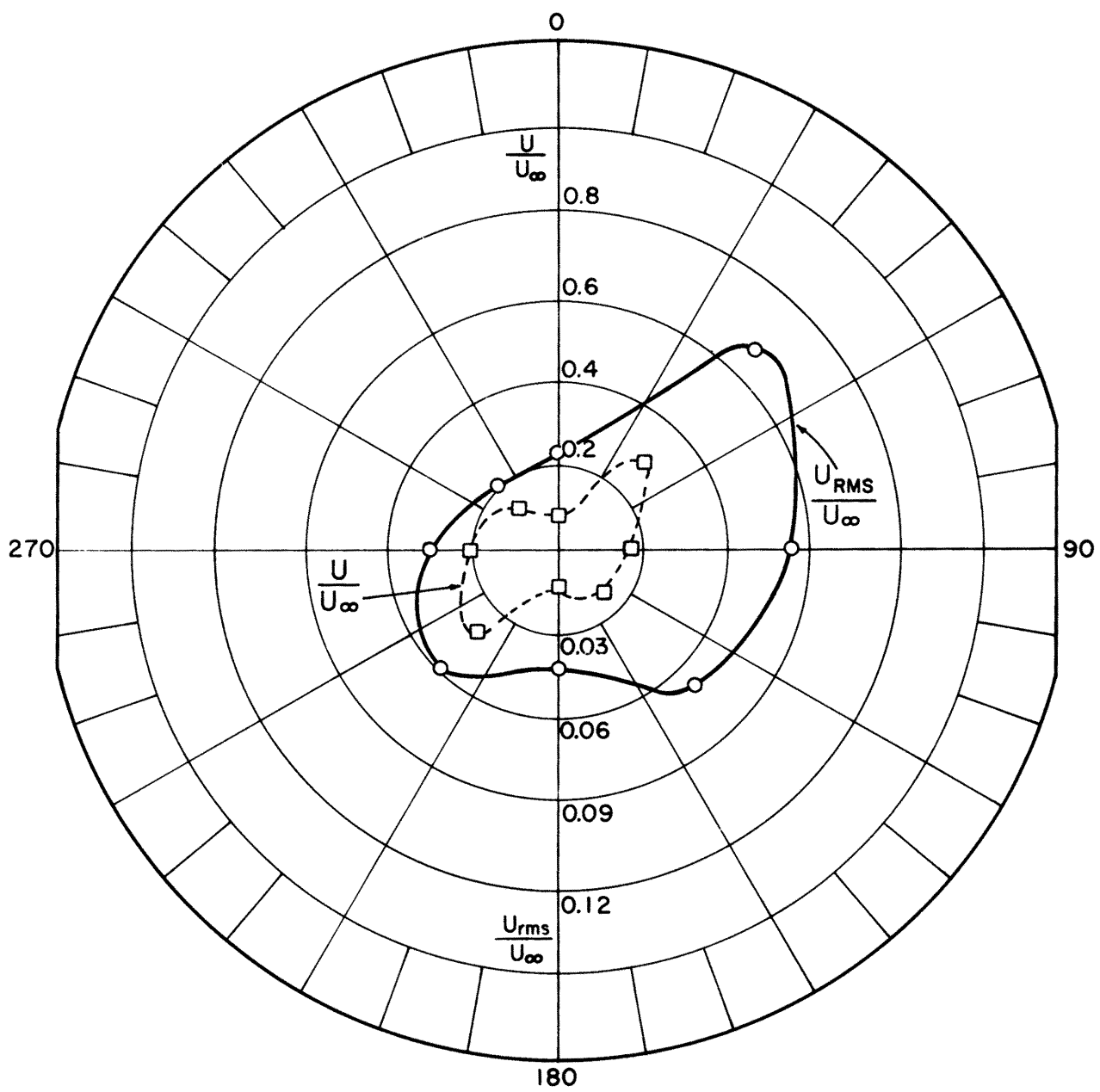


Figure 40. Phase IV, Location 16.

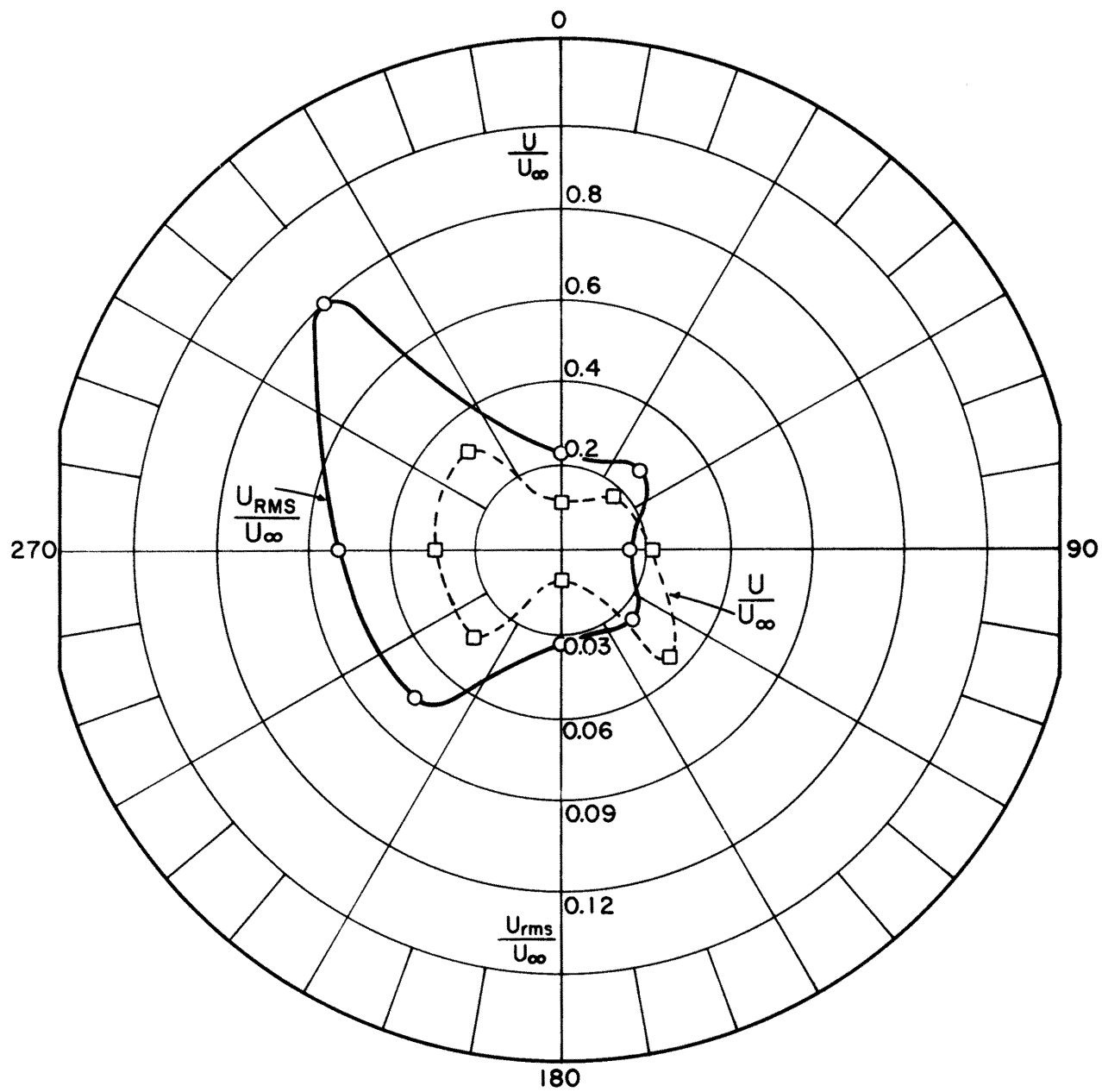


Figure 41. Phase IV, Location 17.

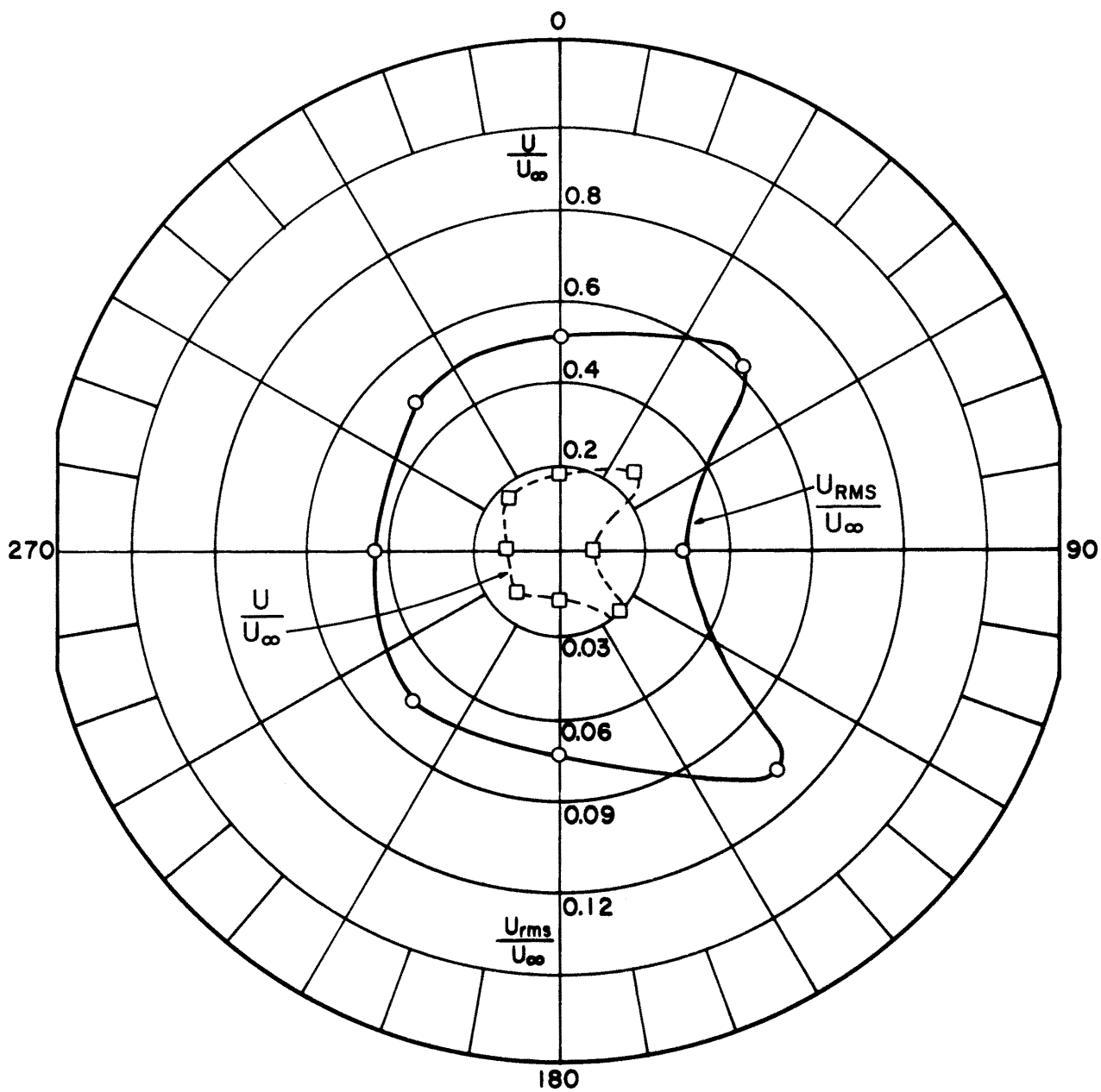


Figure 42. Phase IV, Location 19.

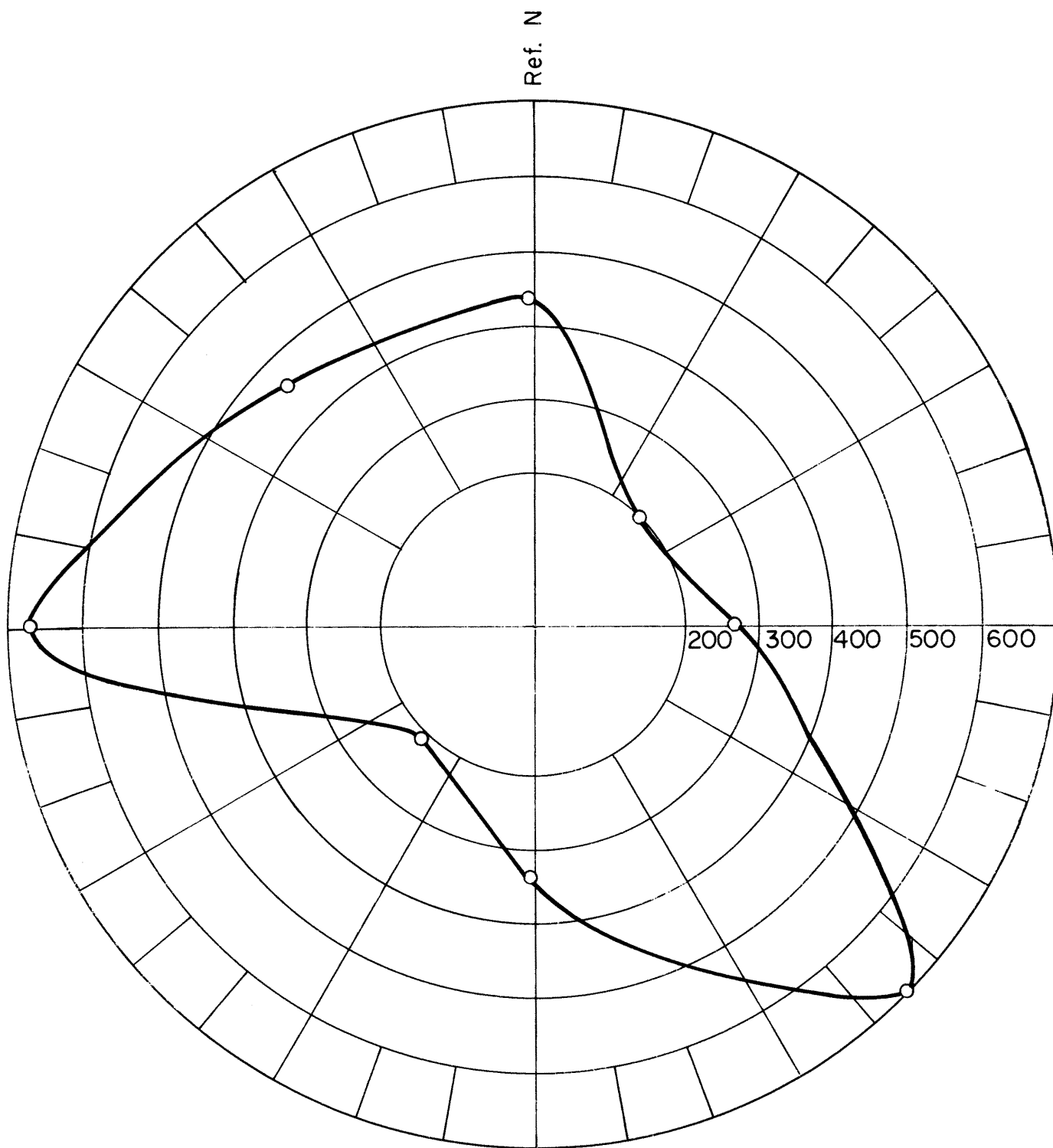


Figure 43. Number of Times Fastest-Mile Wind Occurred from the Wind Direction Indicated from 1962-1970.

APPENDIX

Calculation Procedure, Prototype Concentrations

K = Dimensionless concentration coefficients

Q = Volumetric dilution rate of carrier gas
Q_m: cc/sec Q_p: cc/sec

= V x A

C_m = Concentration sampled at selected locations in the model,
μc_i/cc

C_p = Concentration values calculated for prototype at
selected model locations for a given source strength,
gm/cc and ppm

M_m = Mass rate of tracer gas release in the model, μc_i/sec

M_p = Mass rate of exhaust release for a prototype source
strength, gm/sec-car

A = Cross-sectional flow area, reflects model scaling of
1:192

V = Carrier gas velocity

m = Subscript denoting model

p = Subscript denoting prototype

The expressions for K_M, K_p are given by

$$K_m = [Q \times \frac{C}{M}]_m \quad (1)$$

$$K_p = [Q \times \frac{C}{M}]_p \quad (2)$$

Setting (1) = (2), and solving for C_p gives

$$C_p = \frac{Q_m}{Q_p} \times \frac{M_p}{M_m} \times C_m \quad (3)$$

assuming the case for V_M = V_p, yields

$$\frac{Q_m}{Q_p} = \frac{V_m \times A_m}{V_p \times A_p} = \left(\frac{1}{192}\right)^2 \quad (4)$$

The source strength for the model was

$$M_m = .954 \mu c_i / \text{sec} \quad (5)$$

and to calculate a prototype source strength, utilize exhaust emission data (E.F., Table VII) and assume 300 cars idling simultaneously as a reasonable condition; thus

$$M_p = 300 \times \text{E.F.} \quad (6)$$

Substituting (4, 5, 6) into (3) yields

$$C_p = \left(\frac{1}{192}\right)^2 \times \frac{300 \times \text{E.F.}}{.954} \times C_m$$

or

$$C_p = 8.53 \times 10^{-3} \times \text{E.F.} \times C_m, \quad \frac{\text{gm}}{\text{cc}} \quad (7)$$

To put C_p in ppm,

$$C_p \left(\frac{\text{gm}}{\text{cc}}\right) \times \left(\frac{10^6 / \text{Effluent Molecular Weight} \left(\frac{\text{gm}}{\mu \text{ mole}}\right)}{\text{Moles air/cc}} \right) = \frac{\text{moles effluent}}{\text{million moles air}} \quad (8)$$

For the Denver area at 68° F, one mole of air occupies, 29.3 liters and as $10^3 \text{ cc} = 1 \text{ liter}$, there are $3.41 \times 10^{-5} \text{ moles air/cc}$. Thus

(8) becomes

$$C_p \left(\frac{\text{gm}}{\text{cc}}\right) \times \left(\frac{10^6 / \text{Effluent M.W.}}{3.41 \times 10^{-5}} \right) = \text{ppm} \quad (9)$$

For carbon monoxide, M.W. = 28 gm/mole, E.F. = .283 gm/sec-car
from Table VII using post-'68 data and Equations (7, 9) become

$$C_p \left(\frac{\text{ppm}}{\text{cc}} \right) = 8.53 \times 10^{-3} \times \left(\frac{10^6/28}{3.41 \times 10^{-5}} \right) \times .283 \times C_m$$

$$C_p = 2.53 \times 10^6 \times C_m, \text{ ppm} \quad (9A)$$

which is a general expression for CO concentrations expressed in terms of C_m for values in ppm.

For hydrocarbons using M.W. = 15 gm/mole, E.F. = .0167 gm/sec-car
from Table VII (post '68) (7, 9) become

$$C_p \left(\frac{\text{gm}}{\text{cc}} \right) \times 8.53 \times 10^{-3} \times \left(\frac{10^6/15}{3.41 \times 10^{-5}} \right) \times .0167 \times C_m$$

$$C_p = 2.78 \times 10^5 \times C_m, \text{ ppm} \quad (9B)$$

which is a general expression for HC concentrations expressed in terms of C_m for values in ppm.

For oxides of nitrogen using M.W. = 44 gm/mole, E.F. = .00167 gm/sec-car, (7, 9) become

$$C_p \left(\frac{\text{gm}}{\text{cc}} \right) \times \frac{8.53 \times 10^{-3} \times 10^6/44}{3.41 \times 10^{-5}} \times .00167 \times C_m$$

$$C_p = 9.49 \times 10^3 \times C_m, \text{ ppm} \quad (9C)$$

which is a general expression for NO₂ concentraions expressed in terms of C_m for values in ppm.

Equations (9A, 9B, 9C) were used to calculate the values of prototype concentration presented in Tables IV, V, and VI.