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WIND-TUNNEL STUDY OF
TOWN CENTER PROJECT, PHASE II,
SOUTHFIELD, MICHIGAN

by

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LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U	Local mean velocity
D	Characteristic dimension (building height, width, etc.)
ν, ρ	Kinematic viscosity and density of approach flow
$\frac{UD}{\nu}$	Reynolds number
E	Mean voltage
A, B, n	Constants
U_{rms}	Root-mean-square of fluctuating velocity
E_{rms}	Root-mean-square of fluctuating voltage
U_{∞}	Reference mean velocity outside the boundary layer
X, Y	Horizontal coordinates
Z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U_{\infty}}$ or $\frac{U_{rms}}{U}$
$C_{P_{mean}}$	Mean pressure coefficient, $\frac{(p-p_{\infty})_{mean}}{0.5 \rho U_{\infty}^2}$
$C_{P_{rms}}$	Root-mean-square pressure coefficient, $\frac{\left((p-p_{\infty}) - (p-p_{\infty})_{mean} \right)_{rms}}{0.5 \rho U_{\infty}^2}$
$C_{P_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_{\infty})_{max}}{0.5 \rho U_{\infty}^2}$
$C_{P_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_{\infty})_{min}}{0.5 \rho U_{\infty}^2}$
$()_{min}$	Minimum value during data record
$()_{max}$	Maximum value during data record
p	Fluctuating pressure at a pressure tap on the structure
p_{∞}	Static pressure in the wind tunnel above the model

1. INTRODUCTION

1.1 General

A significant characteristic of modern building design is lighter cladding and more flexible frames. These features produce an increased vulnerability of glass and cladding to wind damage and result in larger deflections of the building frame. In addition, increased use of pedestrian plazas at the base of the buildings has brought about a need to consider the effects of wind and gustiness in the design of these areas.

The building geometry itself may increase or decrease wind loading on the structure. Wind forces may be modified by nearby structures which can produce beneficial shielding or adverse increases in loading. Overestimating loads results in uneconomical design; underestimating may result in cladding or window failures. Tall structures have historically produced unpleasant wind and turbulence conditions at their bases. The intensity and frequency of objectionable winds in pedestrian areas is influenced both by the structure shape and by the shape and position of adjacent structures.

Techniques have been developed during the past decade for wind tunnel modeling of proposed structures which allow the prediction of wind pressures on cladding and windows, overall structural loading, and also wind velocities and gusts in pedestrian areas adjacent to the building. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed. Accurate knowledge of the intensity and distribution of the pressures on the structure permits adequate but economical selection of window strength to meet selected maximum design winds and overall wind loads for the design of the frame for flexural control.

Modeling of the aerodynamic loading on a structure requires special consideration of flow conditions in order to guarantee similitude between model and prototype. A detailed discussion of the similarity requirements and their wind tunnel implementation can be found in References (1), (2), and (3). In general, the requirements are that the model and prototype be geometrically similar, that the approach mean velocity at the building site have a vertical profile shape similar to the full-scale flow, that the turbulence characteristics of the flows be similar, and that the Reynolds number for the model and prototype be equal.

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

1.2 The Wind Tunnel Test

The wind-engineering study is performed on a building or building group modeled at scales ranging from 1:150 to 1:400. The building model

is constructed of clear plastic fastened together with screws. The structure is modeled in detail to provide accurate flow patterns in the wind passing over the building surfaces. The building under test is often located in a surrounding where nearby buildings or terrain may provide beneficial shielding or adverse wind loading. To achieve similarity in wind effects the area surrounding the test building is also modeled. A flow visualization study is first made (smoke is used to make the air currents visible) to define overall flow patterns and identify regions where local flow features might cause difficulties in building curtain-wall design or produce pedestrian discomfort.

The test model, equipped with pressure taps (200 to 600 or more), is exposed to an appropriately modeled atmospheric wind in the wind tunnel and the fluctuating pressure at each tap measured electronically. The model, and the modeled area, are rotated 15 degrees and another set of data recorded for each pressure tap. Normally, 24 sets of data (360 degrees of turning) are taken; however, when flow visualization or recorded data indicate high pressure regions of small azimuthal extent, data is obtained in smaller azimuthal steps.

Data are recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several types are calculated by the computer for each reading on each piezometer tap and are printed in tabular form as computer readout. Using wind data applicable to the building site, representative wind velocities are selected for combination with measured pressures on the building model. Integration of test data with wind data results in prediction of peak local wind pressures for design of glass or cladding and may include overall forces and moments on the structure (by floor if desired) for design of

the structural frame. Pressure contours are drawn on the developed building surfaces showing the intensity and distribution of peak wind loads on the building. These results may be used to divide the building into zones where lighter or heavier cladding or glass may be desirable.

Based on the visualization (smoke) tests and on a knowledge of heavy pedestrian use areas, a dozen or more locations may be chosen at the base of the building where wind velocities can be measured to determine the relative comfort or discomfort of pedestrians in plaza areas, near building entrances, near building corners, or on sidewalks. Usually a reference pedestrian position is also tested to determine whether the wind environment in the building area is better or worse than the environment a block or so away in an undisturbed area.

The following pages discuss in greater detail the procedures followed and the equipment and data collecting and processing methods used. In addition, the data presentation format is explained and the implications of the data are discussed.

2. EXPERIMENTAL CONFIGURATION

2.1 Wind Tunnel

Wind-engineering studies are performed in the Fluid Dynamics and Diffusion Laboratory at Colorado State University (Figure 1). Three large wind tunnels are available for wind loading studies depending on the detailed requirements of the study. The wind tunnel used for this investigation is shown in Figure 2. All tunnels have a flexible roof adjustable in height to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously in each tunnel to the maximum velocity available.

2.2 Model

In order to obtain an accurate assessment of local pressures using piezometer taps, models are constructed to the largest scale that does not produce significant blockage in the wind-tunnel test section. The models are constructed of 1/2 in. thick Lucite plastic and fastened together with metal screws. Significant variations in the building surface, such as mullions, are machined into the plastic surface. Piezometer taps (1/16 in. dia) are drilled normal to the exterior vertical surfaces in rows at several or more elevations between the bottom and top of the building. Similarly, taps are placed in the roof and on any sloping, protruding, or otherwise distinctive features of the building that might need investigation.

Pressure tap locations are chosen so that the entire surface of the building can be investigated for pressure loading and at the same time permit critical examination of areas where experience has shown that maximum wind effects may be expected to occur. Locations of the pressure taps for this study are shown in Figure 3. Dimensions are given both for

full-scale building (in ft) and for model (in in.). The pressure tap numbers are shown adjacent to the taps.

The pressure tests are sometimes made in two stages. In the first stage measurements are made on the initial distribution of pressure taps. If it becomes apparent from the data that the loading on the building is being influenced by some unsuspected geometry of the building or adjacent structures, additional pressure taps are installed in the critical areas. The locations of the taps are selected so that the maximum loading can be detected and the area over which this loading is acting can be defined. Any added taps are also shown in Figure 3.

A circular area 750 to 2000 ft in radius depending on model scale and characteristics of the surrounding buildings and terrain is modeled in detail. Structures within the modeled region are made from styrofoam and cut to the individual building geometries. They are mounted on the turntable in their proper locations. Significant terrain features are included as needed. The model is mounted on a turntable (Figure 2) near the downwind end of the test section. Any buildings or terrain features which do not fit on the turntable are placed on preshaped pieces which are placed upwind of the turntable for appropriate wind directions. A plane view of the building and its surroundings is shown in Figure 4. The turntable is calibrated to indicate azimuthal orientation to 0.1 degree.

The region upstream from the modeled area is covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Different roughness sizes may be used for different wind directions. Spires are installed at the test-section entrance to provide a thicker boundary-layer than would otherwise be available. The

thicker boundary-layer permits a somewhat larger scale model than would otherwise be possible. The spires are approximately triangularly shaped pieces of 1/2 in. thick plywood 6 in. wide at the base and 1 in. wide at the top, extending from the floor to the top of the test section. They are placed so that the broad side intercepts the flow. A barrier approximately 8 in. high is placed on the test-section floor downstream of the spires to aid in development of the boundary-layer flow.

The distribution of the roughness cubes and the spires in the roughened area was designed to provide a boundary-layer thickness of approximately 4 ft, a velocity profile power-law exponent similar to that expected to occur in the region approaching the modeled area for each wind direction (a number of wind directions may have the same approach roughness). A photograph of the completed model in the wind tunnel is shown in Figure 5. The wind-tunnel ceiling is adjusted after placement of the model to obtain a zero pressure gradient along the test section.

3. INSTRUMENTATION AND DATA ACQUISITION

3.1 Flow Visualization

Making the air flow visible in the vicinity of the model is helpful (a) in understanding and interpreting mean and fluctuating pressures, (b) in defining zones of separated flow and reattachment and zones of vortex formation where pressure coefficients may be expected to be high and (c) in indicating areas where pedestrian discomfort may be a problem. Titanium tetrachloride smoke is released from sources on and near the model to make the flow lines visible to the eye and to make it possible to obtain motion picture records of the tests. Conclusions obtained from these smoke studies are discussed in Sections 4.1 and 5.1.

3.2 Pressures

Mean and fluctuating pressures are measured at each of the pressure taps on the model structure. Data are obtained for 24 wind directions, rotating the entire model assembly in a complete circle. Seventy-six pieces of 1/16 in. I.D. plastic tubing each 18 in. long are used to connect 76 pressure ports at a time to an 80 tap pressure switch mounted inside the model. The switch was designed and fabricated in the Fluid Dynamics and Diffusion Laboratory to minimize the attenuation of pressure fluctuations across the switch. Each of the 76 measurement ports is directed in turn by the switch to one of four pressure transducers mounted close to the switch. The four pressure input taps not used for transmitting building surface pressures are connected to a common tube leading outside the wind tunnel. This arrangement provides both a means of performing in-place calibration of the transducers and, by connecting this tube to a pitot tube mounted inside the wind tunnel, a means of automatically monitoring the tunnel speed. The switch is operated by

means of a shaft projecting through the floor of the wind tunnel. A computer-controlled stopping motor steps the switch into each of the 20 required positions. The computer keeps track of switch position but a digital readout of position is provided at the wind tunnel.

The pressure transducers used are Statham differential strain gage transducers (Model PM 283TC) with a 0.15 psid range. They were selected because of their stability and linearity in the required working range. The resonant frequency of the transducers is approximately 2,000 Hz. This is sufficiently high that transducer resonance effects on the measured pressures can be ignored. Reference pressures are obtained by connecting the reference sides of the four transducers, using plastic tubing, to the static side of a pitot tube mounted in the wind tunnel free stream above the model building. In this way the transducer measures the instantaneous difference between the local pressures on the surface of the building and the static pressure in the free stream above the model.

Each pressure transducer contains a built-in bridge similar to a Wheatstone Bridge. The bridge is monitored by a Honeywell Accudata 118 Gage Control/Amplifier unit which provides excitation to the transducer bridge and amplifies the bridge output. These instruments are characterized by a very stable excitation voltage and amplifier gain. Output from the Honeywell signal conditioners is fed to an on-line data acquisition system consisting of a Hewlett-Packard 21 MX computer, disk unit, card reader, printer, Digi-Data digital tape drive and a Preston Scientific analog-to-digital convertor. The data are processed immediately into pressure coefficient form as described in Section 4.3 and stored for printout or further analysis.

All four transducers are recorded simultaneously for 16 seconds at a 250 sample per second rate. The results of an experiment to determine the length of record required to obtain stable mean and rms (root-mean-square) pressures and to determine the overall accuracy of the pressure data acquisition system is shown in Figure 6. A typical pressure port record was integrated for a number of different time periods to obtain the data shown. Examination of a large number of pressure taps showed that the overall accuracy for a 16 second period is, in pressure coefficient form, 0.03 for mean pressures, 0.1 for peak pressures, and 0.01 for rms pressures. Pressure coefficients are defined in Section 4.3.

3.3 Velocity

Mean velocity and turbulence intensity profiles are measured upstream of the model to determine that an approach boundary-layer flow appropriate to the site has been established. Tests are made at one wind velocity in the tunnel. This velocity is well above that required to produce Reynolds number similarity between the model and the prototype as discussed in Section 1.1.

In addition, mean velocity and turbulence intensity measurements are made 5 to 7 feet (prototype) above the surface at a dozen or more locations on and near the building for 16 wind directions. The measurement locations are shown on Figure 4. The surface measurements are indicative of the wind environment to which a pedestrian at the measurement location would be subjected. The locations are chosen to determine the degree of pedestrian comfort or discomfort at the building corners where relatively severe conditions frequently are found, near building entrances and on adjacent sidewalks where pedestrian traffic is heavy, and in open plaza areas. In most studies a reference pedestrian position,

located about a block away, is also tested. These data are helpful in evaluating the degree of pedestrian comfort or discomfort in the proposed plaza area in terms of the undisturbed environment in the immediate vicinity.

Measurements are made with a single hot-wire anemometer mounted with its axis vertical. The instrumentation used is a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. dia platinum film sensing element 0.020 in. long. Output is read from a digital voltmeter with a time-constant circuit for mean voltage and a DISA RMS meter (Model 55035) for rms voltage.

Calibration of the hot-wire anemometer is performed using a Thermo Systems calibrator (Model 1125). The calibration data are fit to a variable exponent King's Law relationship of the form

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

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

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

where E_{rms} is the root-mean-square voltage output from the anemometer. For interpretation all turbulence measurements were divided by both local mean velocity U and mean velocity outside the boundary-layer U_{∞} . Division by U gives an indication of the relative unsteadiness at the location while division by U_{∞} permits an easy determination of the

actual magnitude of rms velocity fluctuations at a point for various approach velocities.

4. RESULTS

4.1 Flow Visualization

A film is included as part of this report showing the characteristics of flow about the structure using smoke to make the flow visible. A listing of the contents of the film is shown in Table 1. Several features can be noted from the visualization. As with all large structures, wind approaching the building is deflected down to the plaza level, up over the structure and around the sides. A description of the smoke test results emphasizing flow patterns of concern relative to possible high-wind load areas and pedestrian comfort is given in Section 5.1.

4.2 Velocity

Velocity and turbulence profiles are shown in Figures 7a and 7b. These profiles were taken upstream from the model and are characteristic of the boundary-layer approaching the model. As shown in Figure 7a, the boundary-layer thickness, δ , was 50 in. The corresponding prototype value of δ for this study is shown in Figure 7a. This value was established as a reasonable height for this study. The mean velocity profile has the form

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

The exponent n for the approach flow established for this study is shown in Figure 7a.

The profile of longitudinal turbulence intensity is shown in Figure 7b. The turbulence intensities are appropriate for the approach mean velocity profile selected. For the purpose of this report, turbulence intensity is defined as the root-mean-square about the mean of the longitudinal velocity fluctuations divided by the reference mean velocity

U_∞ at the outer edge of the boundary layer,

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

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

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

Mean velocity U/U_∞ , turbulence intensity U_{rms}/U_∞ , and "gustiness" U_{rms}/U at the pedestrian measuring positions shown in Figure 4 are listed in Table 2 for 16 wind directions and are plotted in polar form in Figures 8a, 8b, etc. Measurements were taken 5 to 7 ft above the ground surface. A site map is superimposed on the polar plots to aid in visualization of the effects of the nearby structures on the velocity and turbulence magnitudes. An analysis of these wind data is given in Section 5.2.

To enable a quantitative assessment of the wind environment, the wind-tunnel data were combined with wind frequency and direction information obtained at the local airport. Table 3 shows wind frequency by direction and magnitude obtained from summaries published by the National Weather Service. These data, usually obtained at an elevation of about 30 to 40 ft, were converted to velocities at the reference velocity height for the wind tunnel measurements and combined with the wind tunnel data to obtain cumulative probability distributions (percent time a given velocity is exceeded) for wind velocity at each measuring location. The percentage times were summed by wind direction to obtain a percent time exceeded at each measuring position independent of wind direction (but accounting for the fact that the wind blows from different directions with varying frequency). These results are plotted in Figure 9a, 9b, etc.

Interpretation of Figure 9 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise (4). The Beaufort scale, based on mean velocity only, is reproduced as Table 4 including qualitative descriptions of wind effects. Table 4 suggests that mean wind speeds below 12 mph are of minor concern and that mean speeds above 24 mph are definitely inconvenient. Included in Section 5.2 is an analysis of the percent of time that the 12 and 24 mph magnitude are exceeded by mean winds and implications for pedestrian comfort.

The peak gust values require a somewhat different interpretation. The peak gust curves shown in Figure 9 are the percent of time during which a short gust of the stated magnitude could occur (say less than one of these gusts per hour). Evidence suggests that gusts greater than about 35 mph in magnitude can be a major impediment to pedestrians, particularly the elderly. Most measuring locations experience winds in which gusts of 35 mph or higher occur much less frequently than the 24 mph mean winds. Implications of these data are presented in Section 5.2.

Because some pedestrian wind measuring positions are purposely chosen at sites where the smoke tests showed large velocities of small spacial extent, the general wind environment about the structure may be less severe than one might infer from a strict analysis of Table 2 and Figure 9.

4.3 Pressures

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

The first is the mean pressure coefficient

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

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

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

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

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

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

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

If the pressure fluctuations followed a Gaussian probability distribution, no additional data would be required to predict the

frequency with which any given pressure level would be observed. However, the pressure fluctuations do not follow a Gaussian probability distribution so that additional information is required to show the extreme values of pressure expected. The peak maximum and peak minimum pressure coefficients are used to determine these values:

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

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

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

The four pressure coefficients are calculated by the on-line data acquisition system computer and tabulated along with the approach wind azimuth in degrees from true north. The list of coefficients is included as Appendix A. The pressure tap code numbers used in the appendix are explained in Figure 3.

To determine the largest peak loads acting at any point on the structure for cladding design purposes, the pressure coefficients for all wind directions were searched to obtain, at each pressure tap, the largest absolute value of peak pressure coefficient. Table 6 provides these pressure coefficients and associated wind directions. Included in

Section 5.3 is an analysis of the coefficients of Table 6 including the maximum values obtained and where they occurred on the building.

The pressure coefficients of Table 6 can be converted to full-scale loads by multiplication by a suitable reference pressure selected for the field site. This reference pressure is represented in the equations for pressure coefficients by the $0.5 \rho U_{\infty}^2$ denominator. This value is the dynamic pressure associated with an hourly mean wind at the reference velocity measurement position at the edge of the boundary layer. In general, the method of arriving at a design reference pressure for a particular site involves selection of a design wind velocity, translation of the velocity to an hourly mean wind at the reference velocity location and conversion to a reference pressure. Selection of the design velocity can be made from statistical analysis of extreme wind data or selected from wind maps contained in the proposed wind loading code ANSI A58.1 of the American National Standards Institute (5). The calculation of reference pressure for this study is shown in Table 5. The factor used in Table 5 to reduce gust winds to hourly mean winds is given in reference (6).

The reference pressure associated with the design hourly mean velocity at the reference velocity location can be used directly with the peak-pressure coefficients to obtain peak local design wind loads for cladding design. For glass design pressures, a glass load factor is used to account for the different duration of measured peak pressures and the one minute loading used in glass design charts. Recent research (6) indicates that the period of application of the peak pressures reported herein is about 5-10 seconds or less. If a glass design is based on these peak values, then a glass strength associated with this

duration load is indicated. If the glass design is based on some alternate load duration--say one minute--then some reduction in peak loads should be made. An estimate of a load reduction factor can be obtained from an empirical relation of glass strength as a function of load duration (8). A glass load factor of 0.73 on the reference pressure was used to convert the short 5-10 second pressure peaks to one minute loads typically cited in glass selection charts.

Local, instantaneous peak loads on the full-scale building suitable for cladding design were computed by multiplying the reference pressure of Table 5 by the peak coefficients of Table 6. Loadings appropriate for glass design were computed by multiplying the reference pressure by the peak coefficients of Table 6 with application of the 0.73 load factor. Table 6 shows both of these results. The maximum psf load given at each tap location is the absolute value of the maximum value found in the tests, irrespective of its algebraic sign. For ease in visualizing the loads on the structure, contours of equal peak pressures for glass design shown in Table 6 have been plotted on developed elevation views of the structure, Figure 10. Loads appropriate for design of mullions or other cladding elements can be obtained by using the loads of Table 6 or multiplying the loads of Figure 10 by 1.37.

5. DISCUSSION

5.1 Flow Visualization

Smoke flow patterns about the Towncenter II structure did not show flow patterns indicating excessively high pressures. Tendency of the flow to remain attached to the surface on the cylindrical portions of the building may tend to cause larger negative pressures in those zones.

Pedestrian environment was observed near the entrance to the existing highrise building in addition to that near the Towncenter II building. High velocity winds were observed in four areas (refer to Figure 4 for pedestrian measurement locations). These high wind areas were near location 4 for northerly or southerly winds, near location 8 for southwesterly winds, near location 13 for northwesterly winds, and near location 17 for southwesterly winds.

5.2 Pedestrian Winds

Table 2 and Figure 8 show that the largest mean velocities measured occurred at locations 17 and 8 with values of 83 and 78 percent of the reference wind velocity at wind azimuths of 247 and 225 for location 17 and values of 79 and 76 percent at wind azimuths of 270 and 292 for location 8. Other wind directions at these locations show more moderate winds. Location 4 showed strong mean winds in the range from 60 to 71 percent of reference level winds for 6 of the 16 wind directions measured. These three sites will experience unpleasant conditions on windy days when winds are from the critical directions.

The largest values of fluctuating velocity were recorded at locations 9 and 8 with root-mean-square values of 32 and 30 percent of reference mean velocity for wind azimuths of 247 and 292 respectively. The condition at location 9 occurs simultaneously with a mean wind speed of 54 percent of U_{∞} which will produce an annoying condition on days with moderately high winds from the critical direction. The high fluctuating velocity at location 8 occurs simultaneously with an exceptionally high mean velocity of 76 percent of gradient wind velocity. This will be an unpleasant location on many days when winds are from the west to west-northwest.

The largest values of gustiness, U_{rms}/U , ranged up to root-mean-square velocities of 80 percent of the local mean velocity at a number of locations. Because these large values of gustiness were usually associated with low mean velocities, they are not necessarily associated with uncomfortable pedestrian environments.

Velocity data integrated with local winds is shown in Figure 9. Mean winds will be above 12 mph for 10 percent of the time at location 17 and 6 to 9 percent of the time at locations 7, 8 and 9. Other locations will have mean velocities above 12 mph for less than 6 percent of the time. All locations have less than 0.4 percent of the time when mean winds will be above 24 mph except location 8 which has 0.9 percent of the time. The largest percentage of time when peak gusts are likely to be greater than 24 mph occurs at location 8 with 10 percent. Several locations are in the 5 to 7 percent range. The largest percentage of time when peak gusts are likely to be greater than 35 mph occurs for location 8 at almost 3 percent. Locations 7 and 17 are about 1 percent.

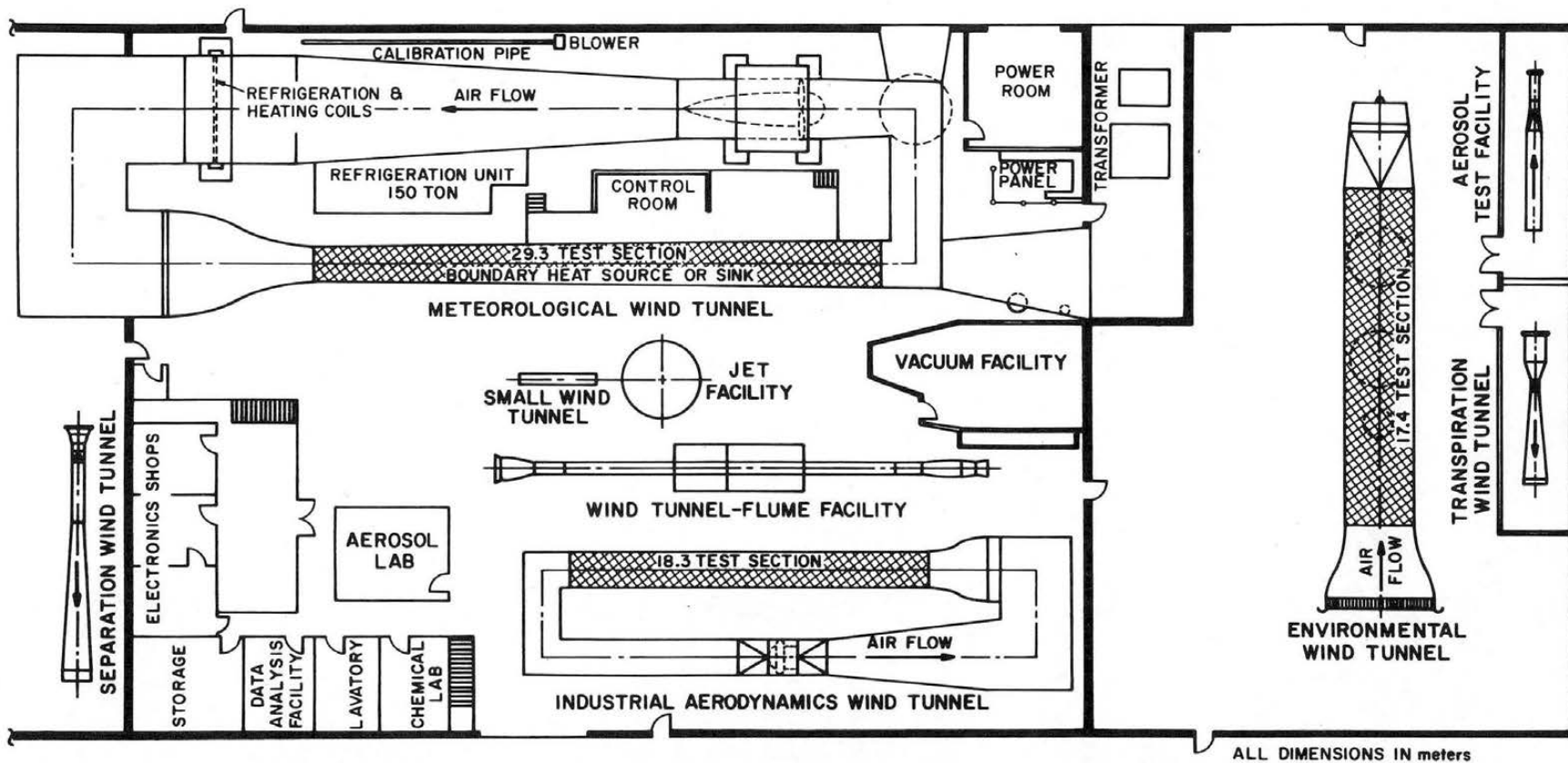
Of the locations measured, 8 appears to have the worst environment with location 17 close behind. Until experience with location 8 is established, guidance for need for remedial measures can be based on current experience at location 17. It may be necessary to protect the entrance area around locations 7, 8 and 9 from westerly winds.

5.3 Pressures

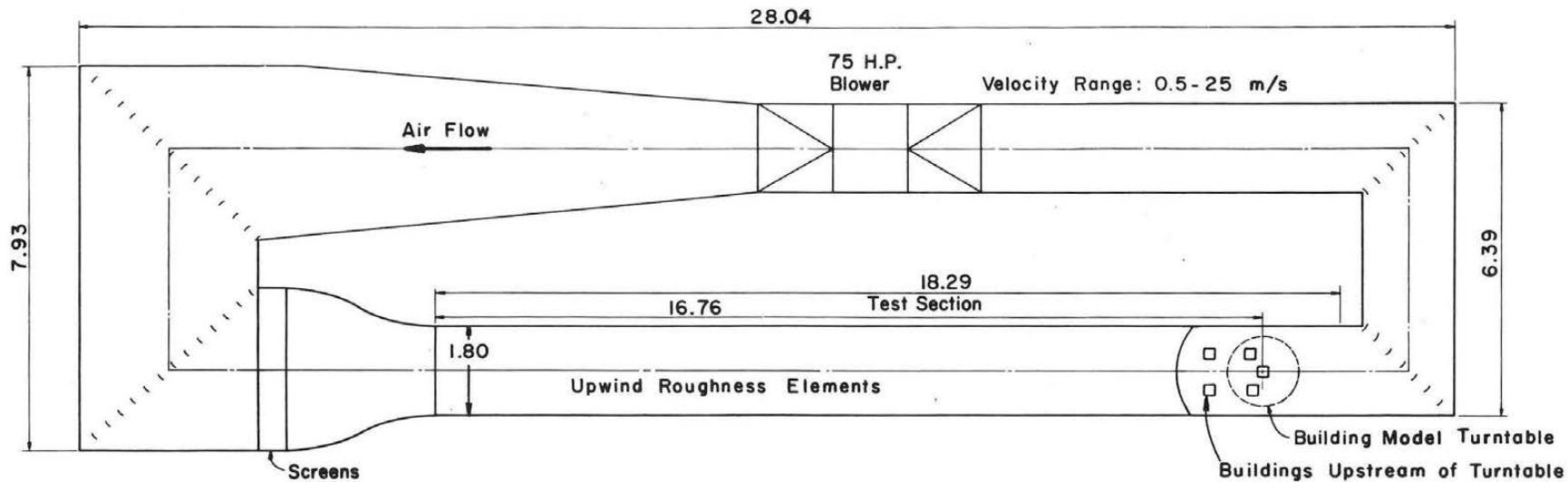
The largest pressure coefficients measured on the building were -2.45 and -2.35 at taps 106 and 188 respectively. Tap 106 is at the south end of the building on the roof and was measured for a south wind. The large pressure coefficient at tap 188 on the northwest rounded portion of the building was measured at a wind azimuth of 255 and was accompanied by a -2.18 at adjacent tap 186 for the same wind direction. These pressures correspond to 54 and 50 psf respectively for glass design. These pressures were higher than those on other corners of the structure due to accelerated flow caused by the Phase I tower influencing the separation characteristics on the Phase II tower.

REFERENCES

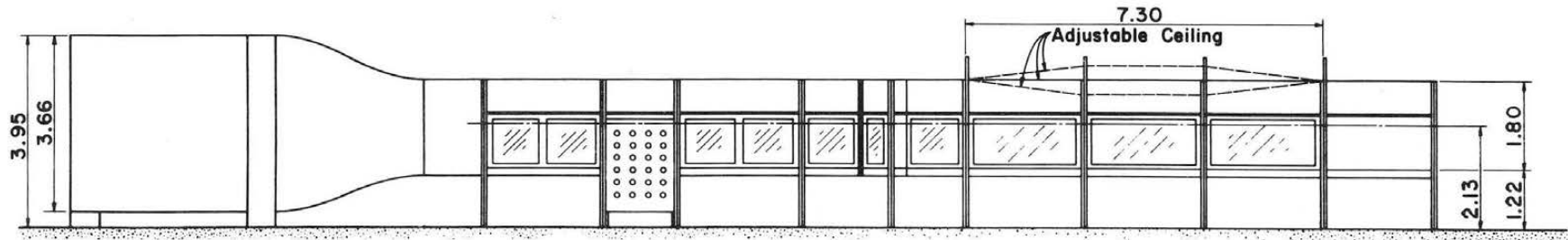
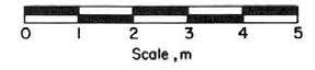
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2. Cermak, J. E., "Applications of Fluid Mechanics to Wind Engineering," A Freeman Scholar Lecture, ASME Jl. of Fluids Engineering, Vol. 97, No. 1, March 1975.
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**FIGURE 1 - FLUID DYNAMICS AND DIFFUSION LABORATORY
COLORADO STATE UNIVERSITY**



PLAN



All Dimensions in m

ELEVATION

INDUSTRIAL AERODYNAMICS WIND TUNNEL

Figure 2 - Wind Tunnel Configuration

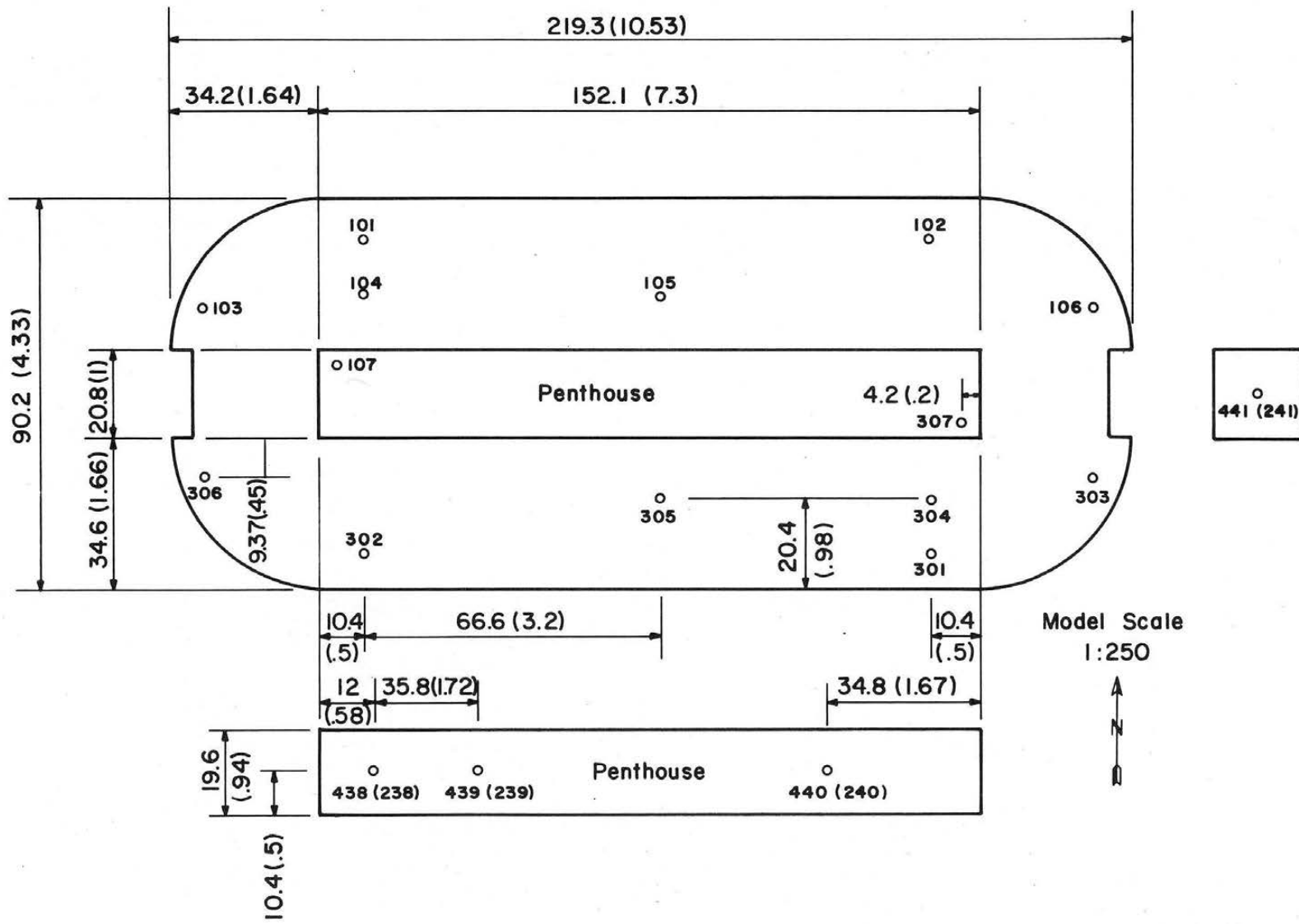
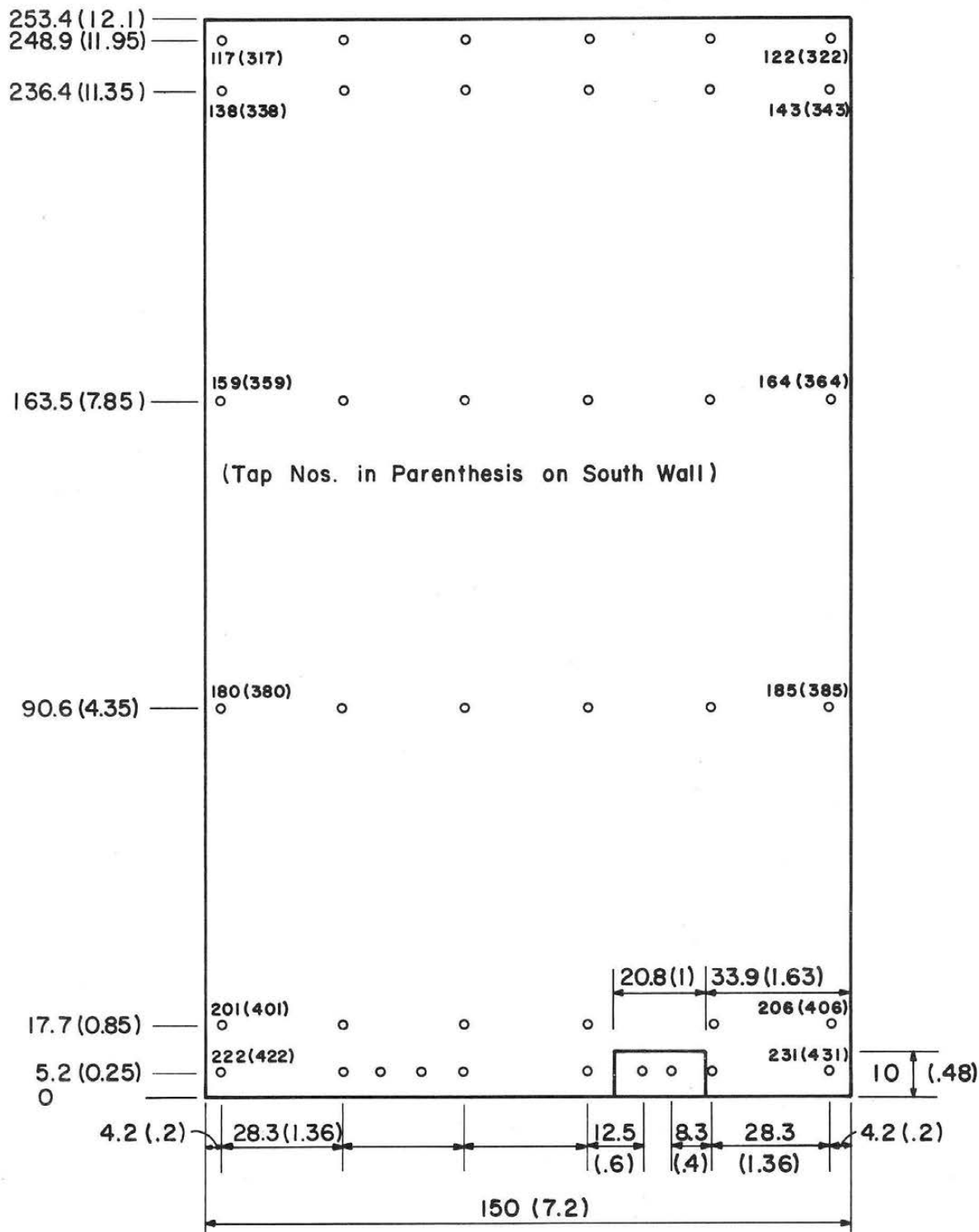


Figure 3a - Pressure Tap Locations



North and South Walls

Figure 3b - Pressure Tap Locations

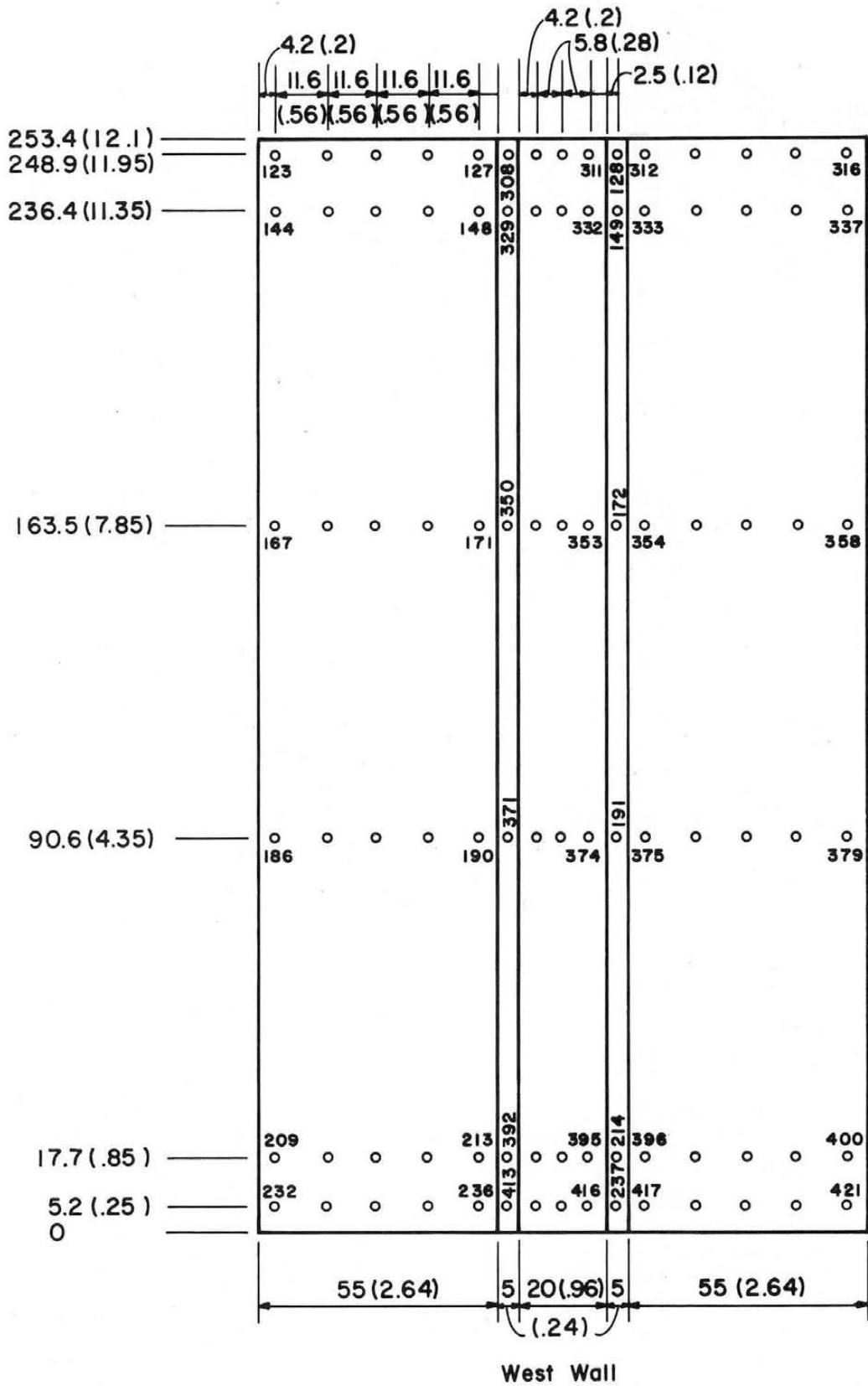
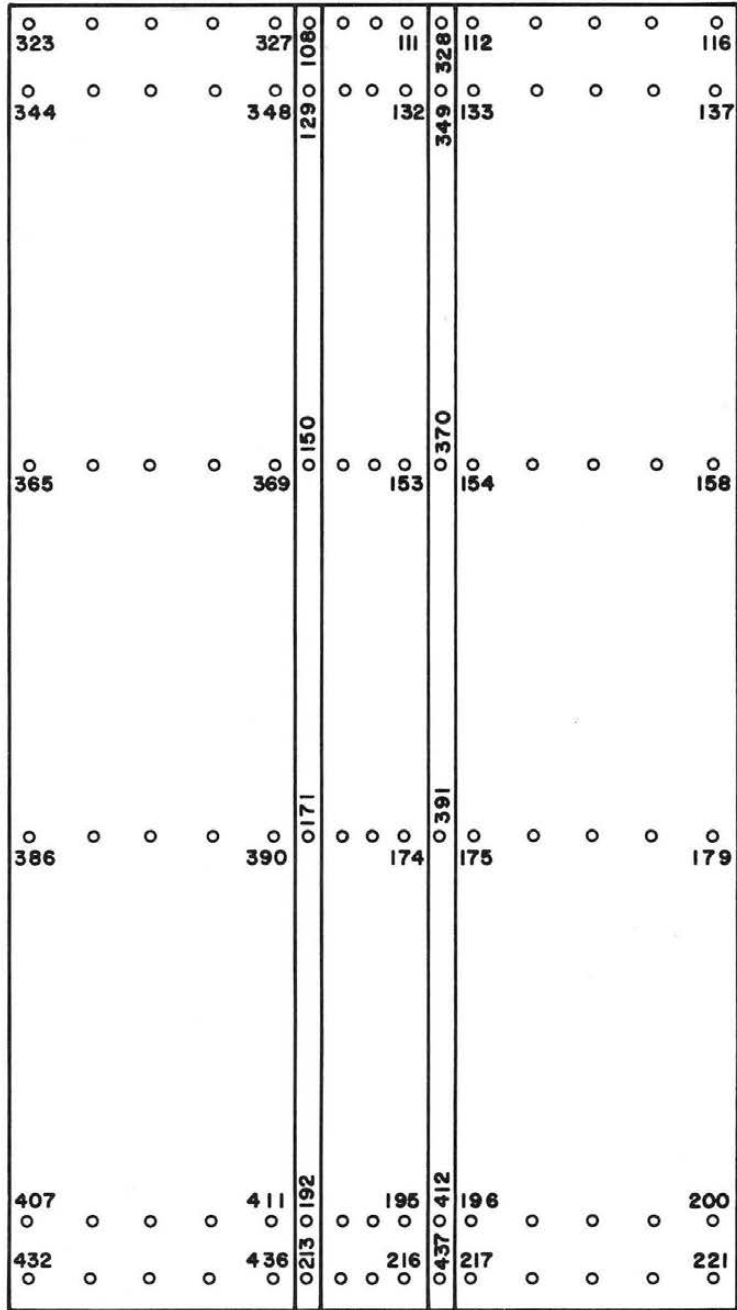


Figure 3c - Pressure Tap Locations



Dimensions on West Elevation

East Wall

Figure 3d - Pressure Tap Locations

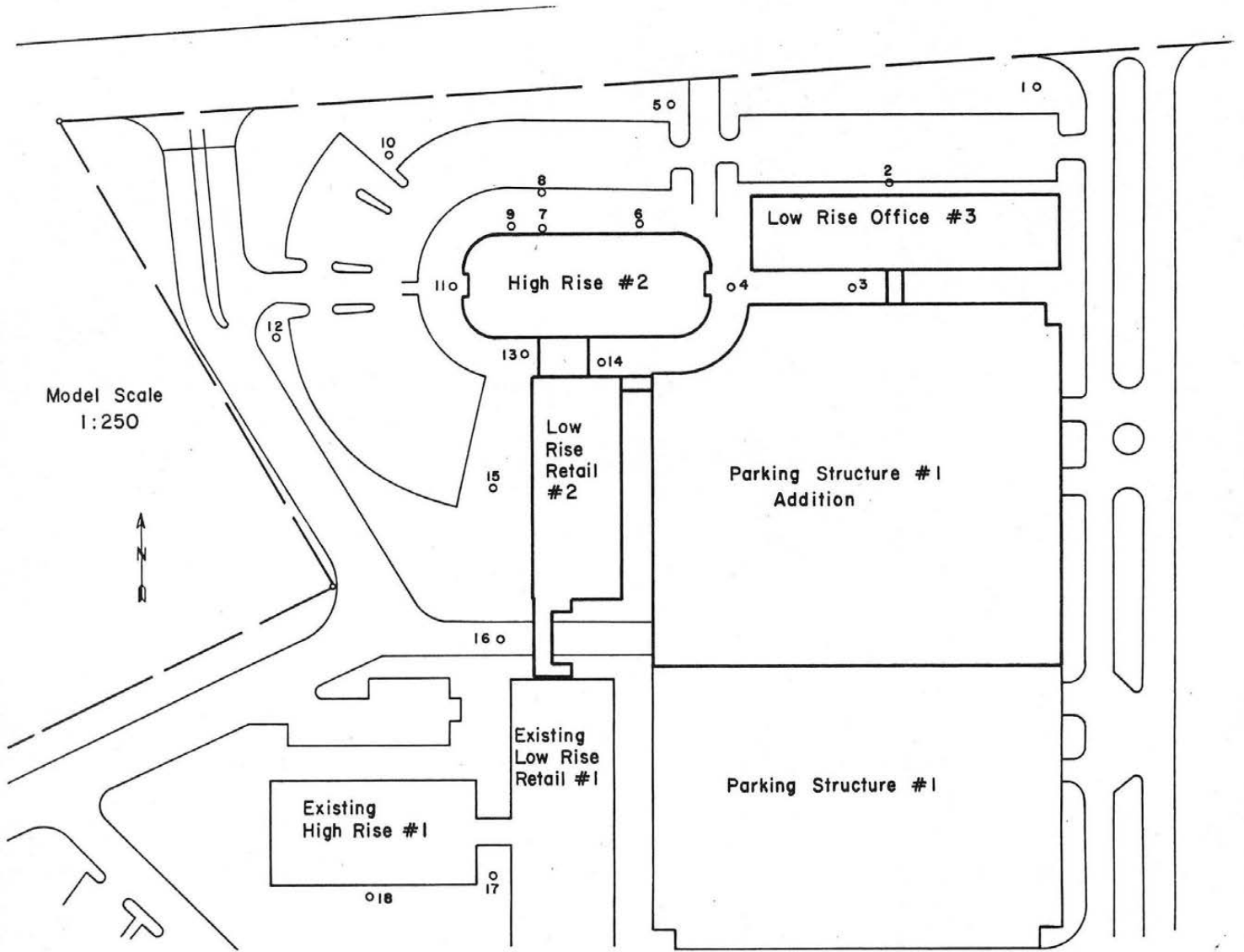


Figure 4 - Building Location and Pedestrian Wind Velocity Measuring Positions

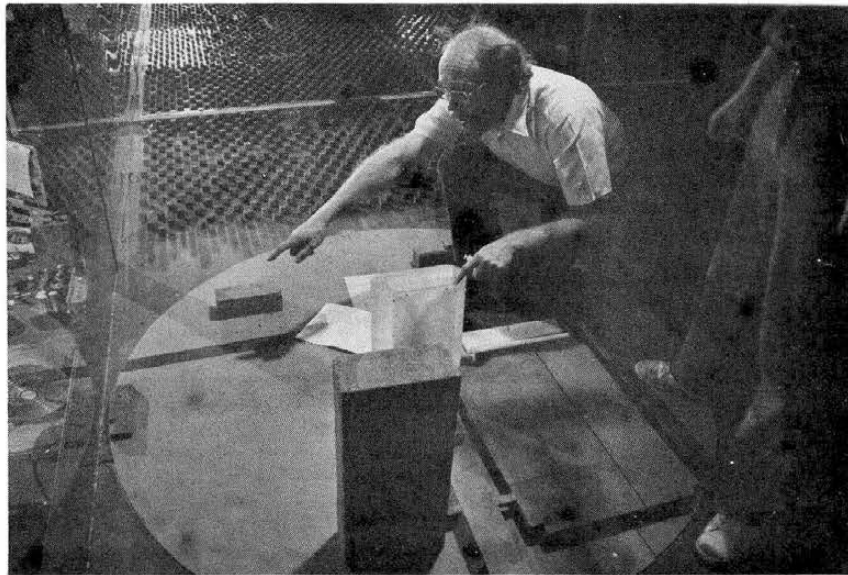
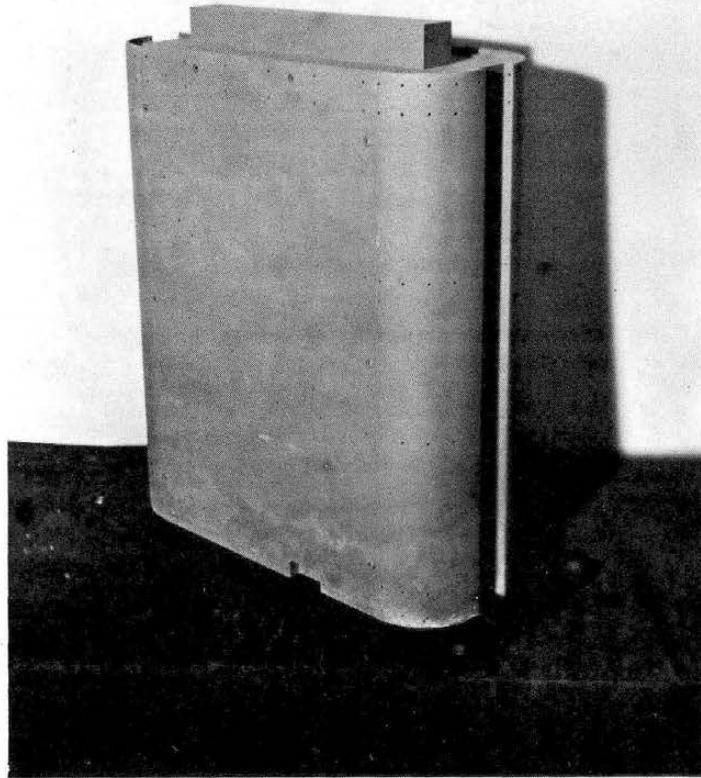


Figure 5 - Completed Model in Wind Tunnel

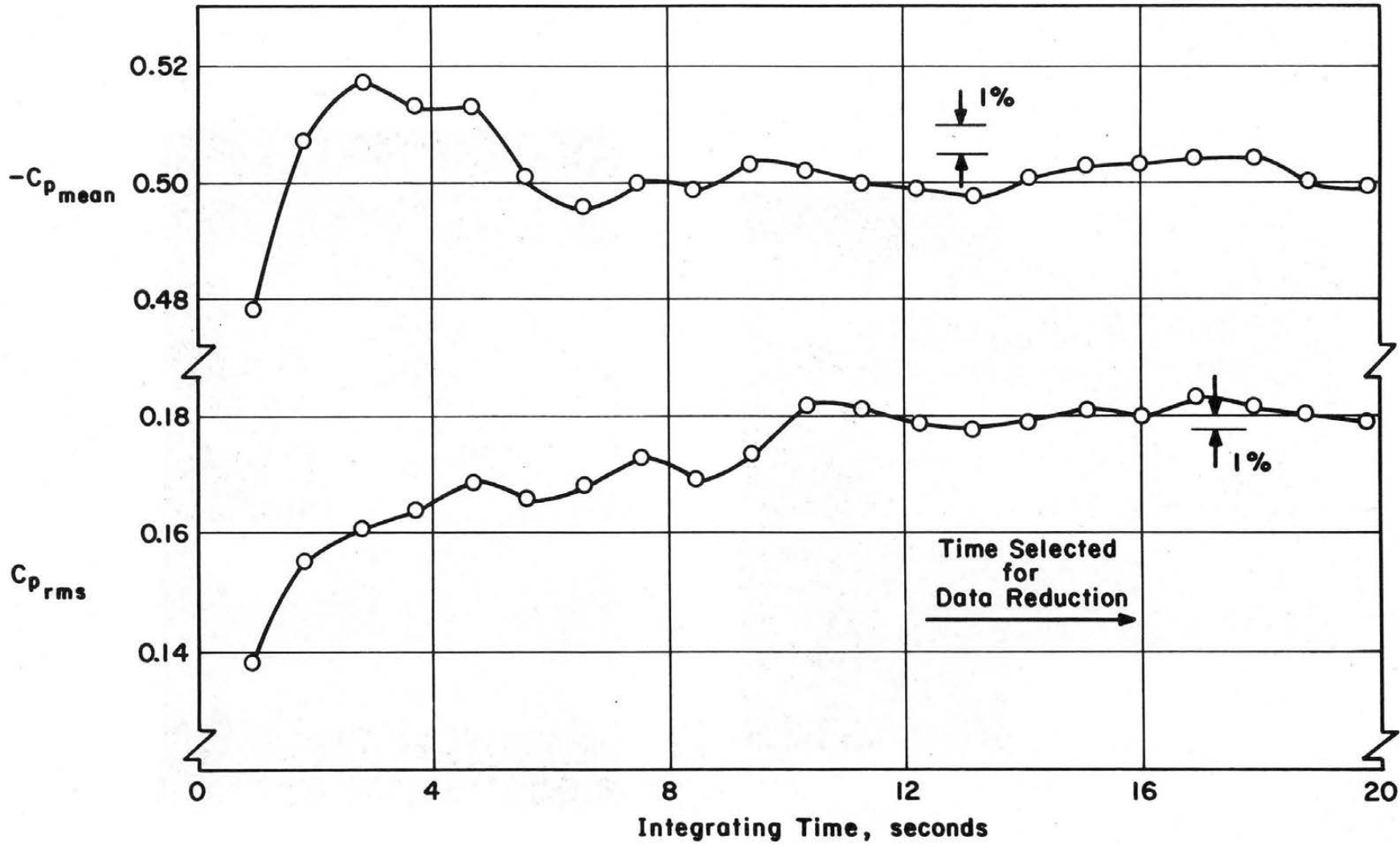


Figure 6 - Data Sampling Time Verification

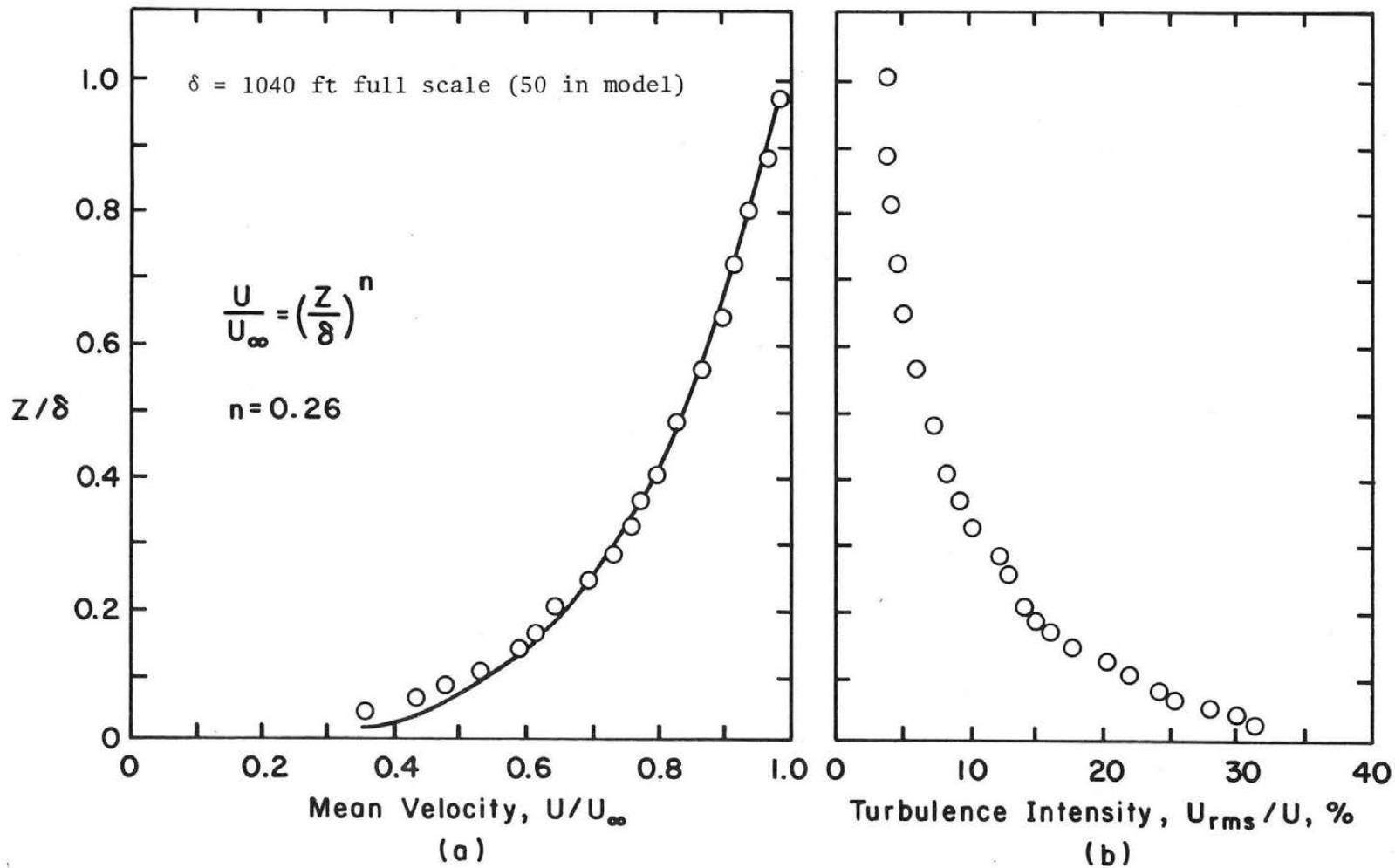


Figure 7 - Velocity and Turbulence Profiles Approaching the Model

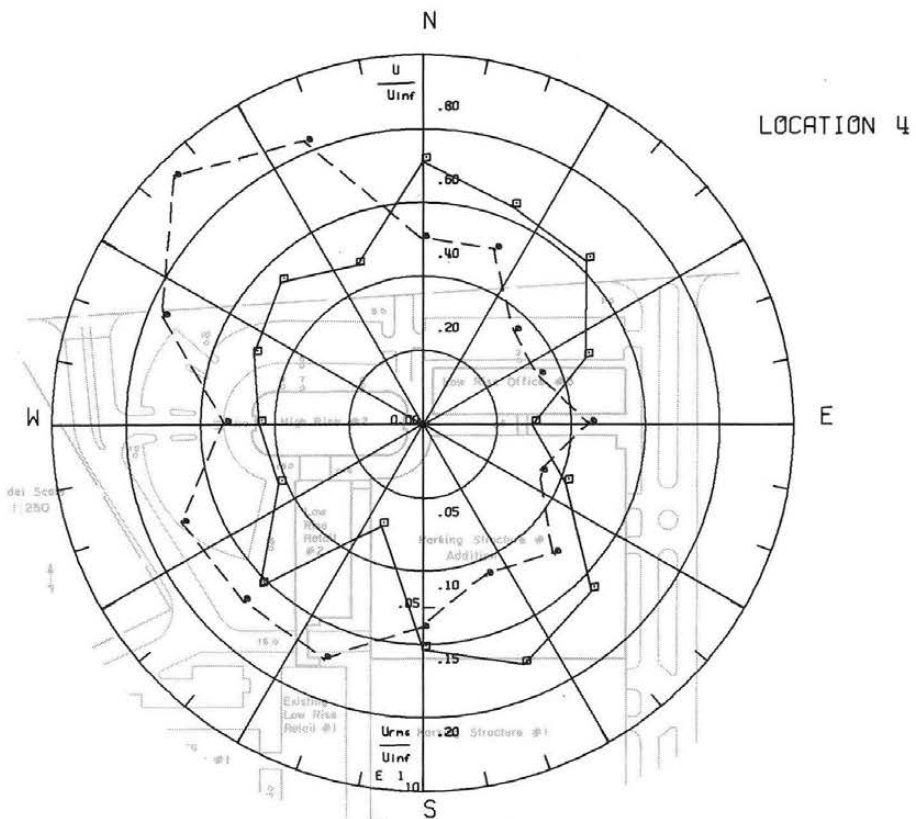
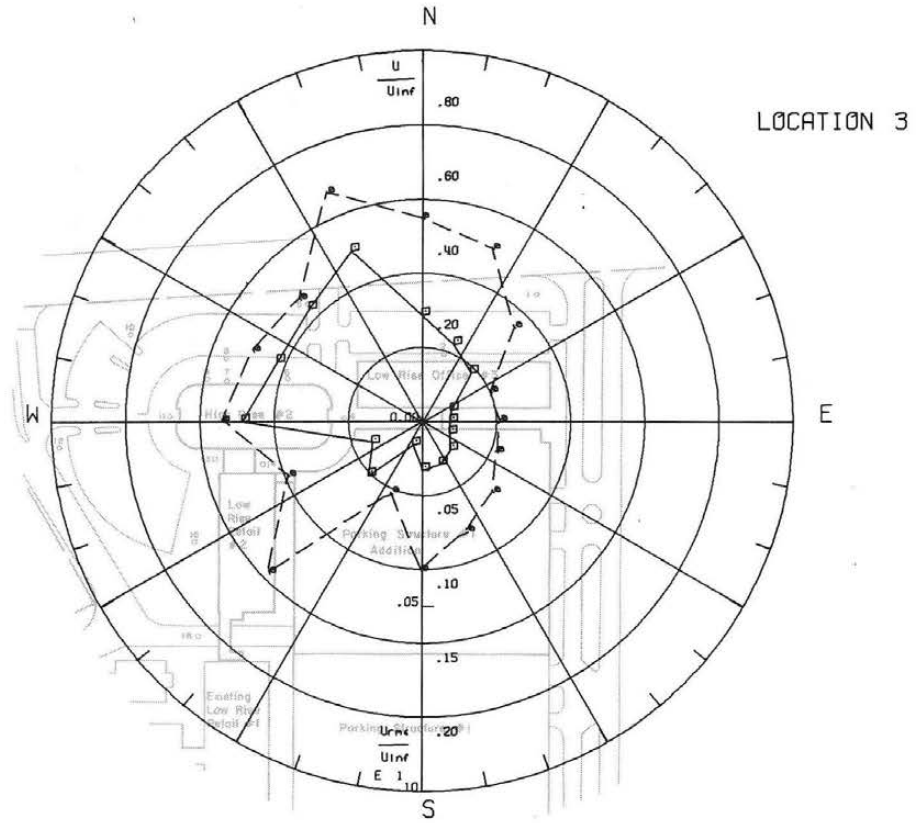


Figure 8b - Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

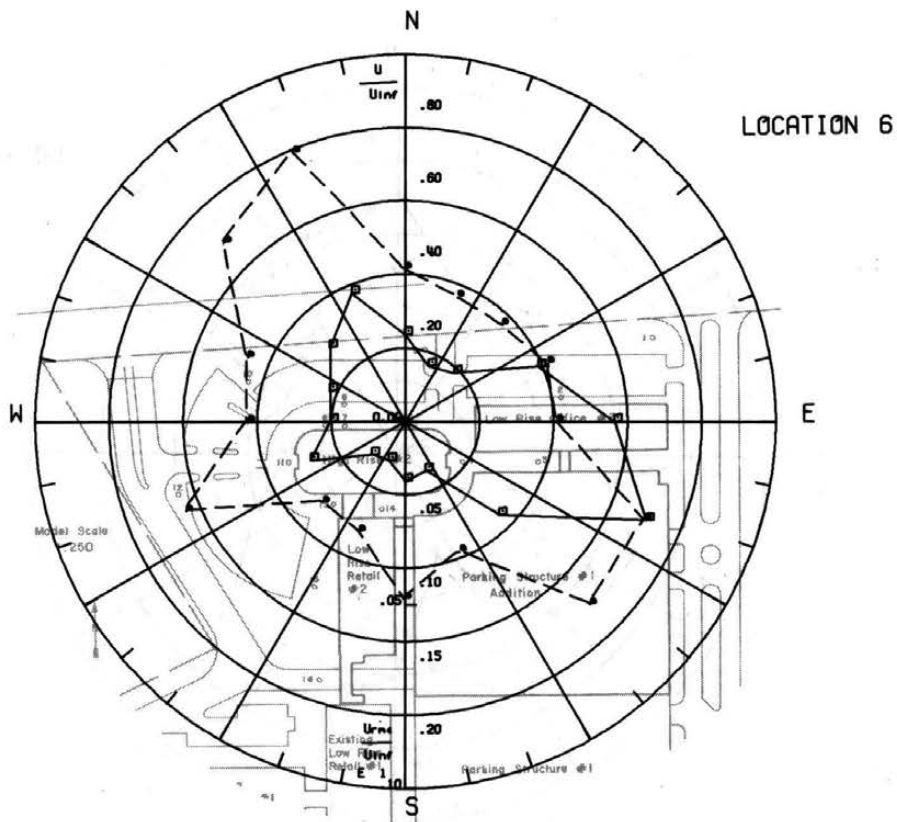
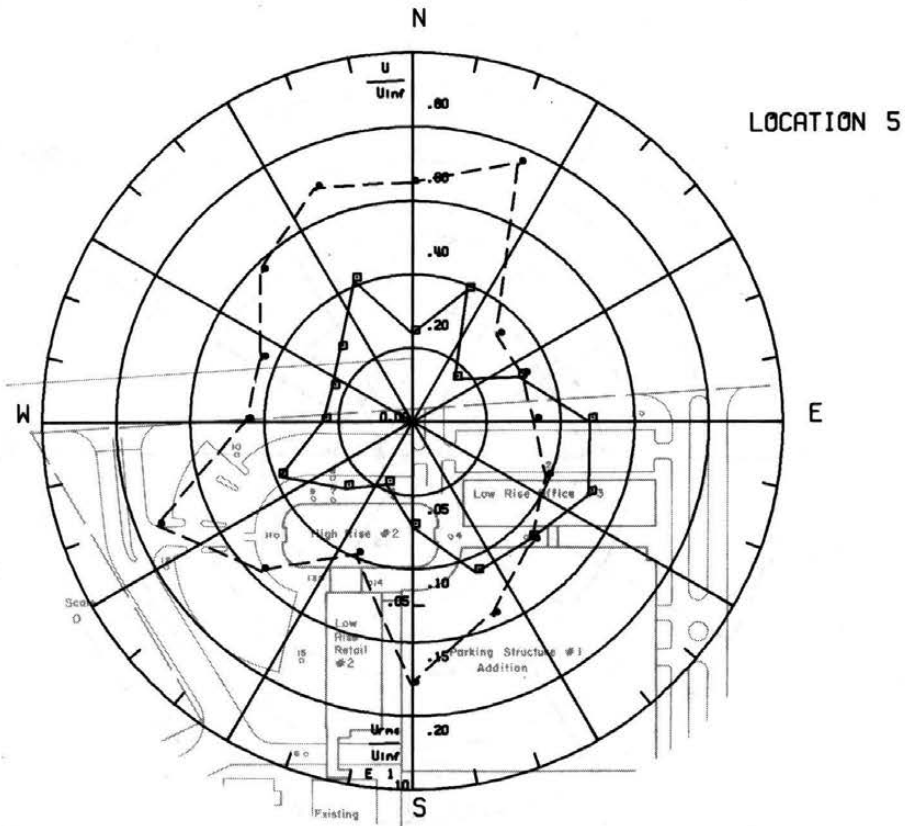


Figure 8c - Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

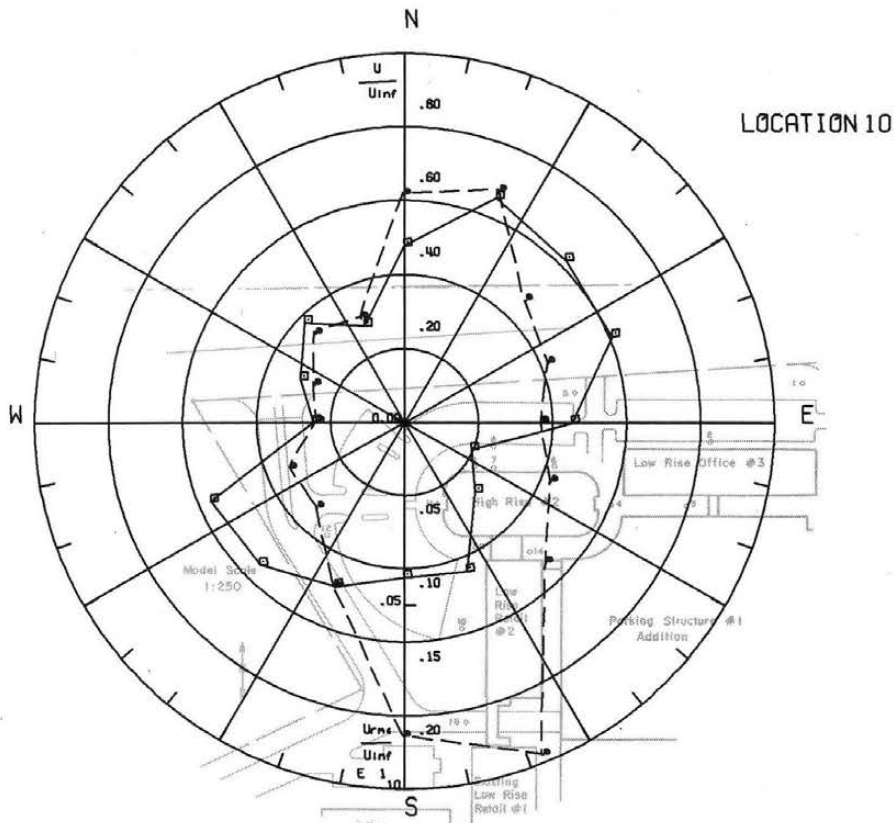
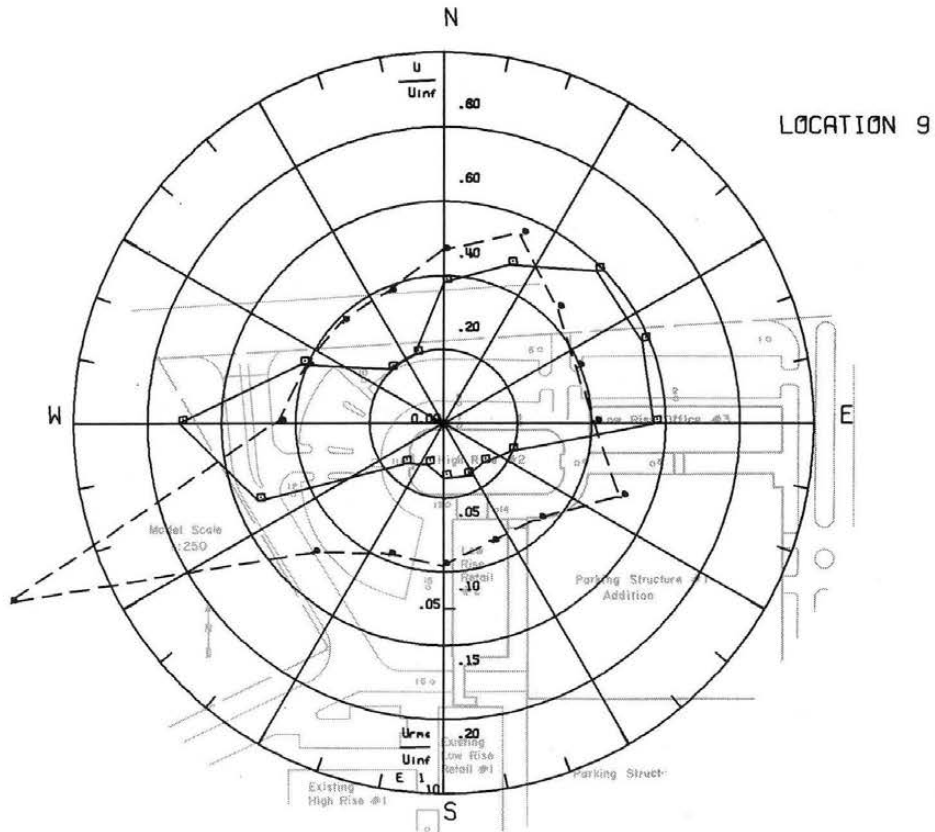


Figure 8e - Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

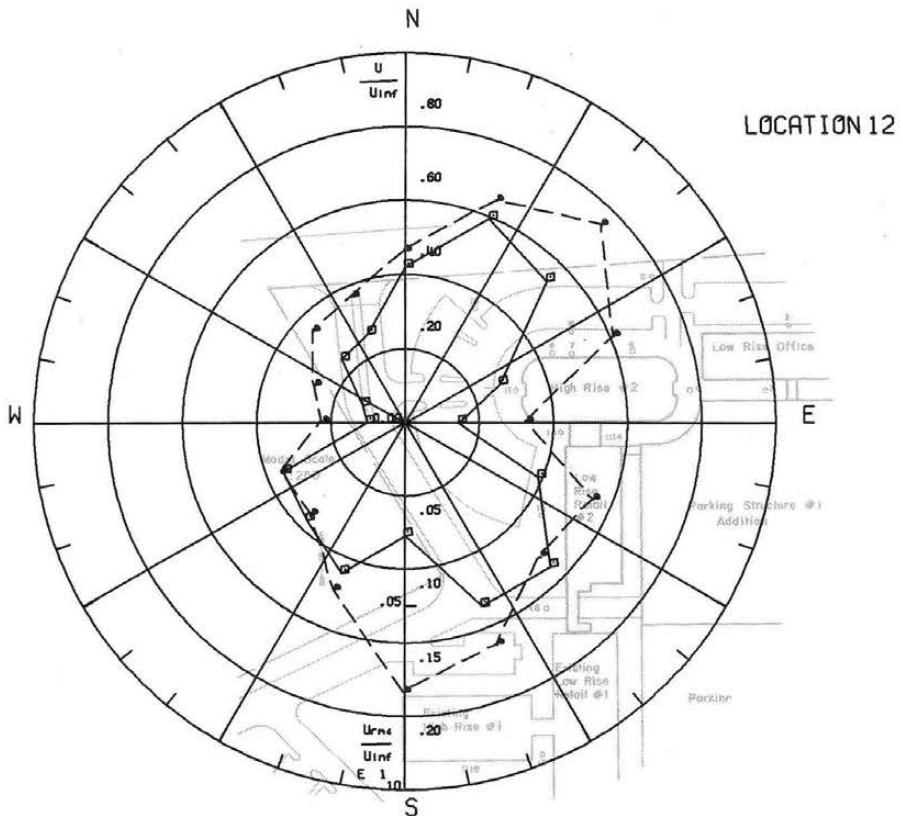
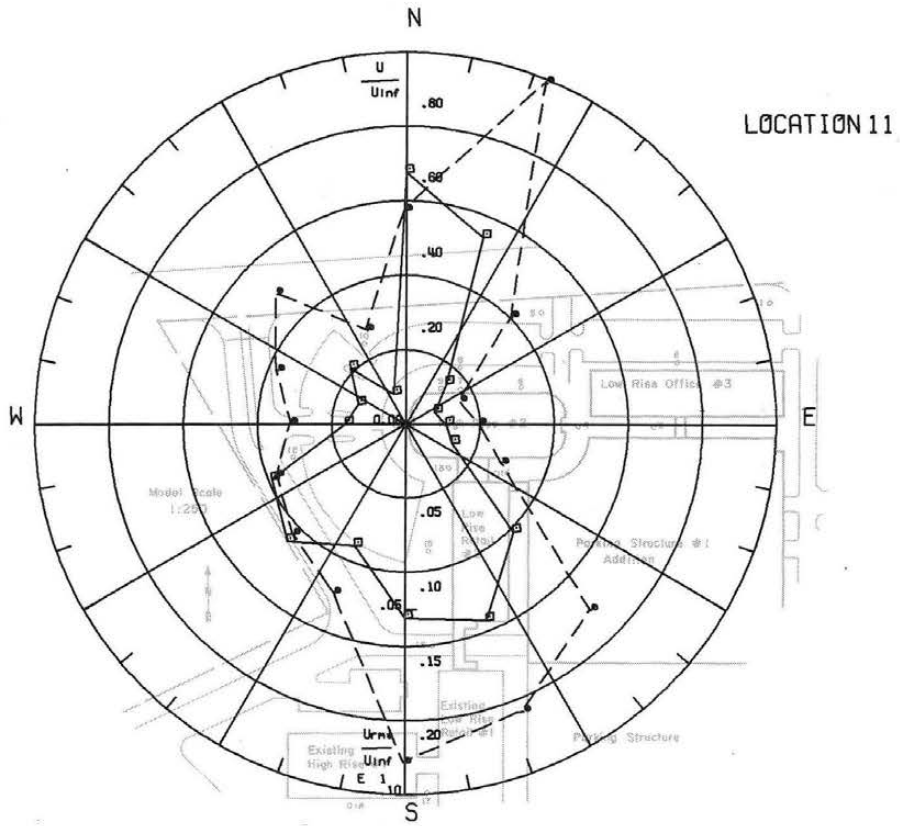


Figure 8f - Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

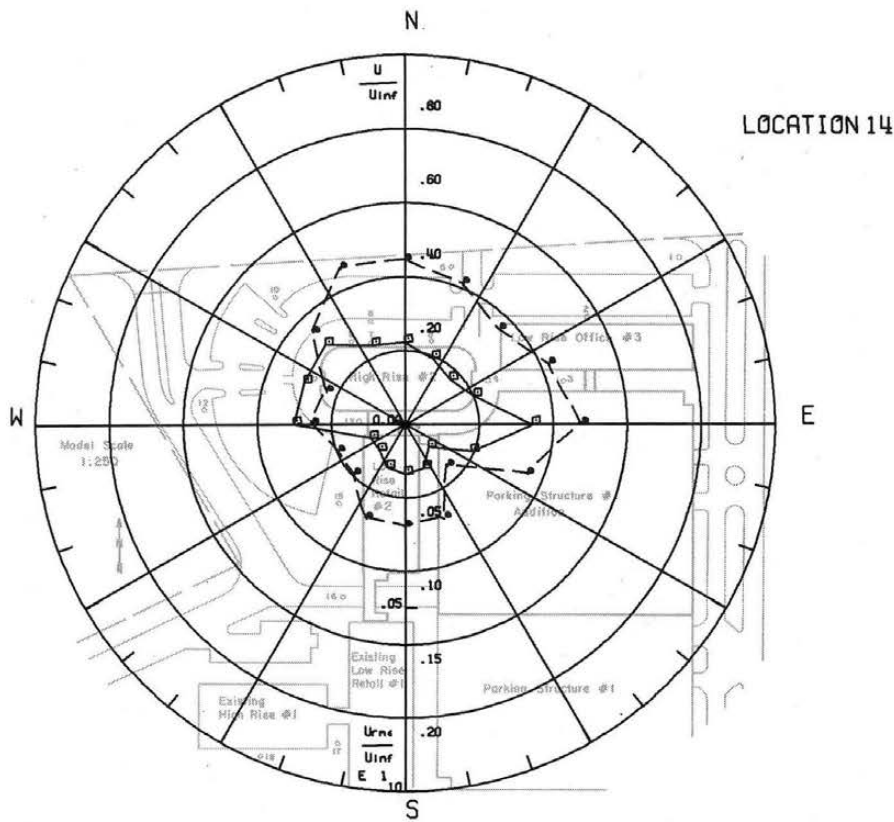
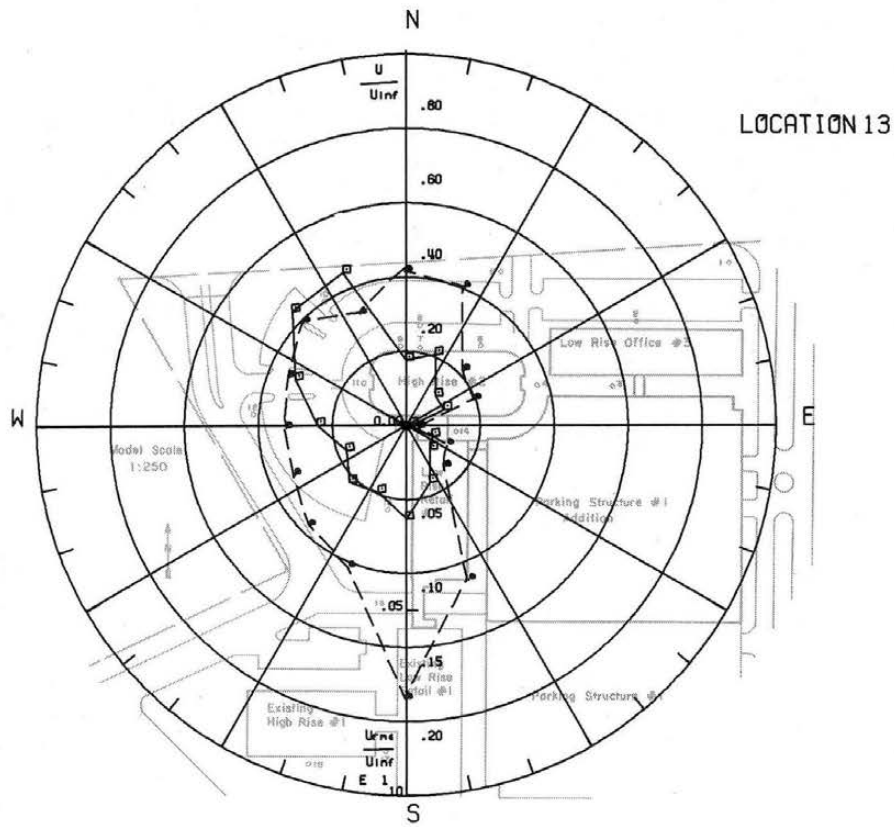


Figure 8g - Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

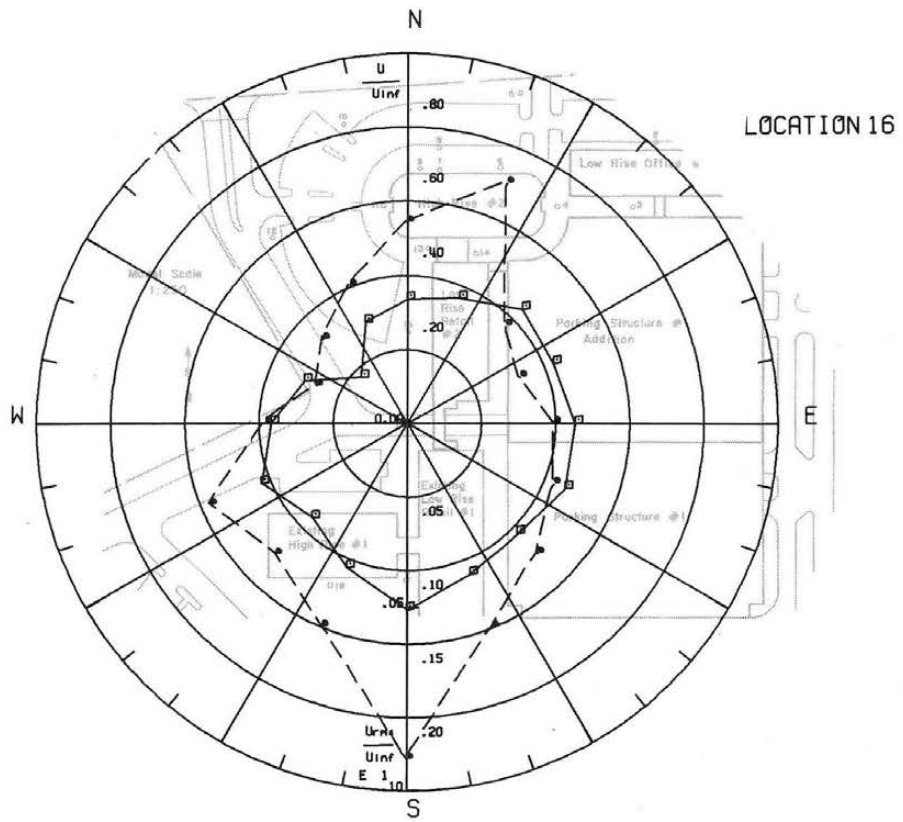
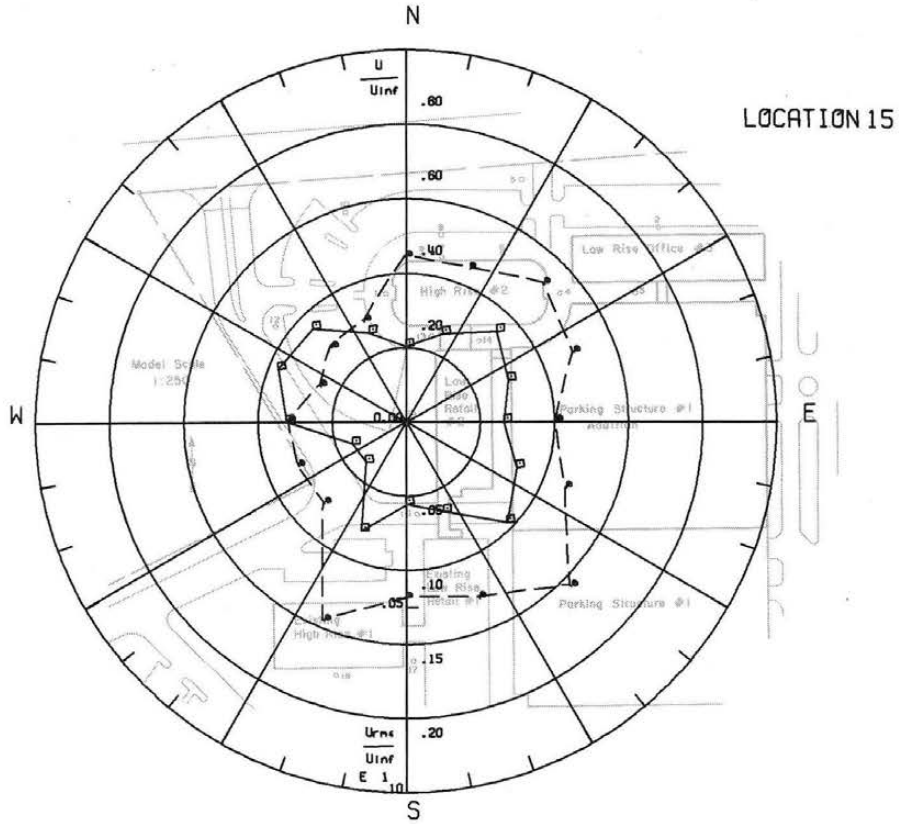


Figure 8h - Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

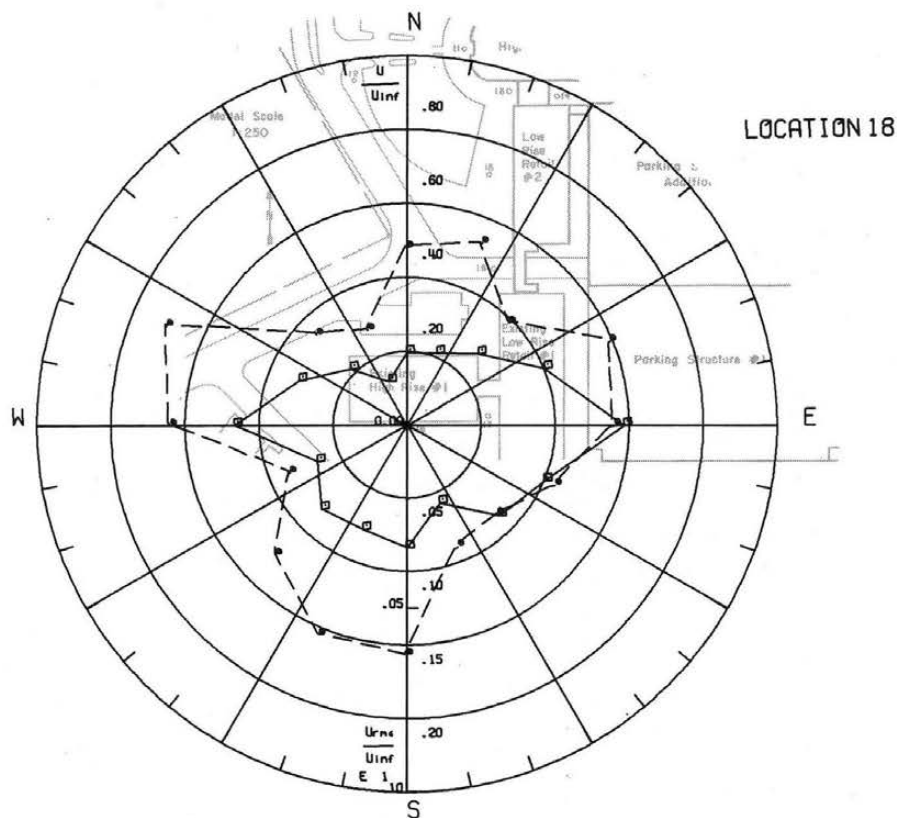
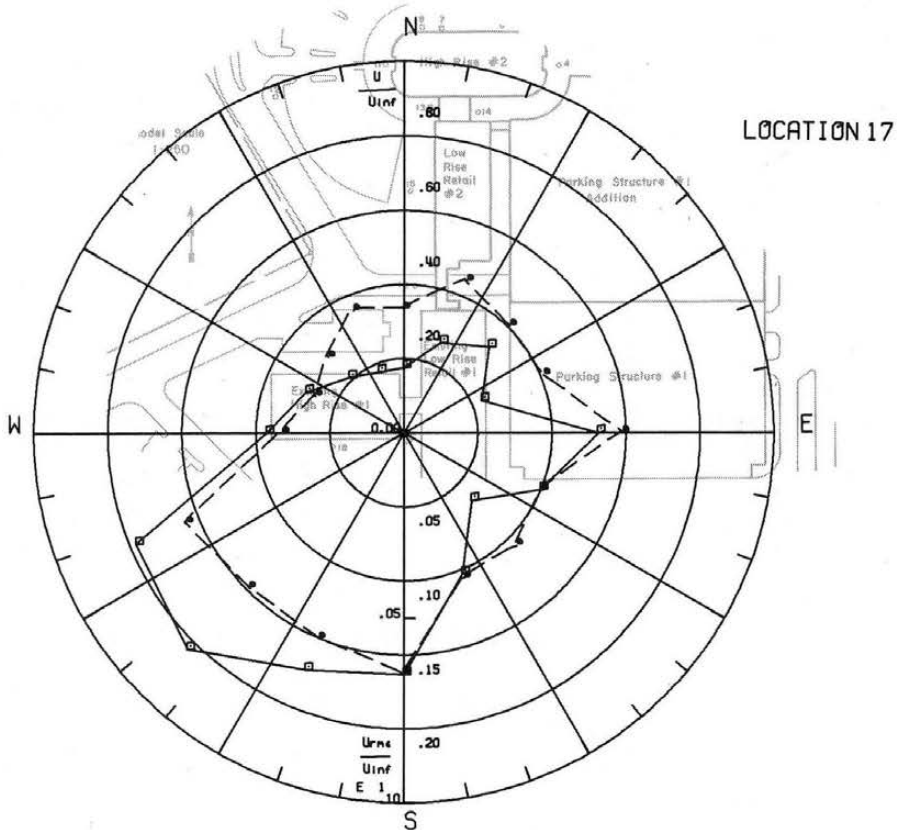


Figure 8i - Mean Velocities and Turbulence Intensities at Pedestrian Locations 17 and 18

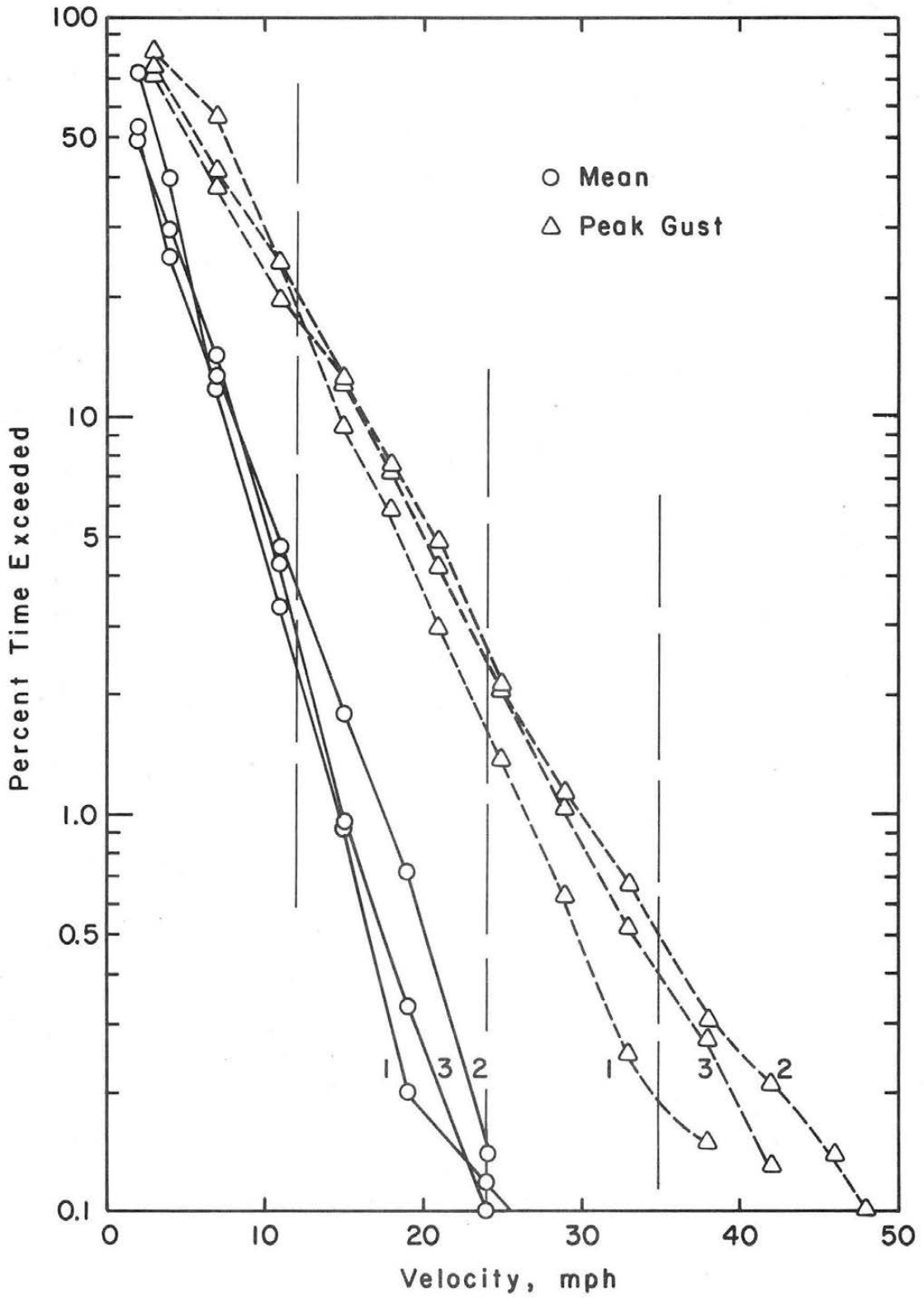


Figure 9a - Wind Velocity Probabilities for Pedestrian Locations

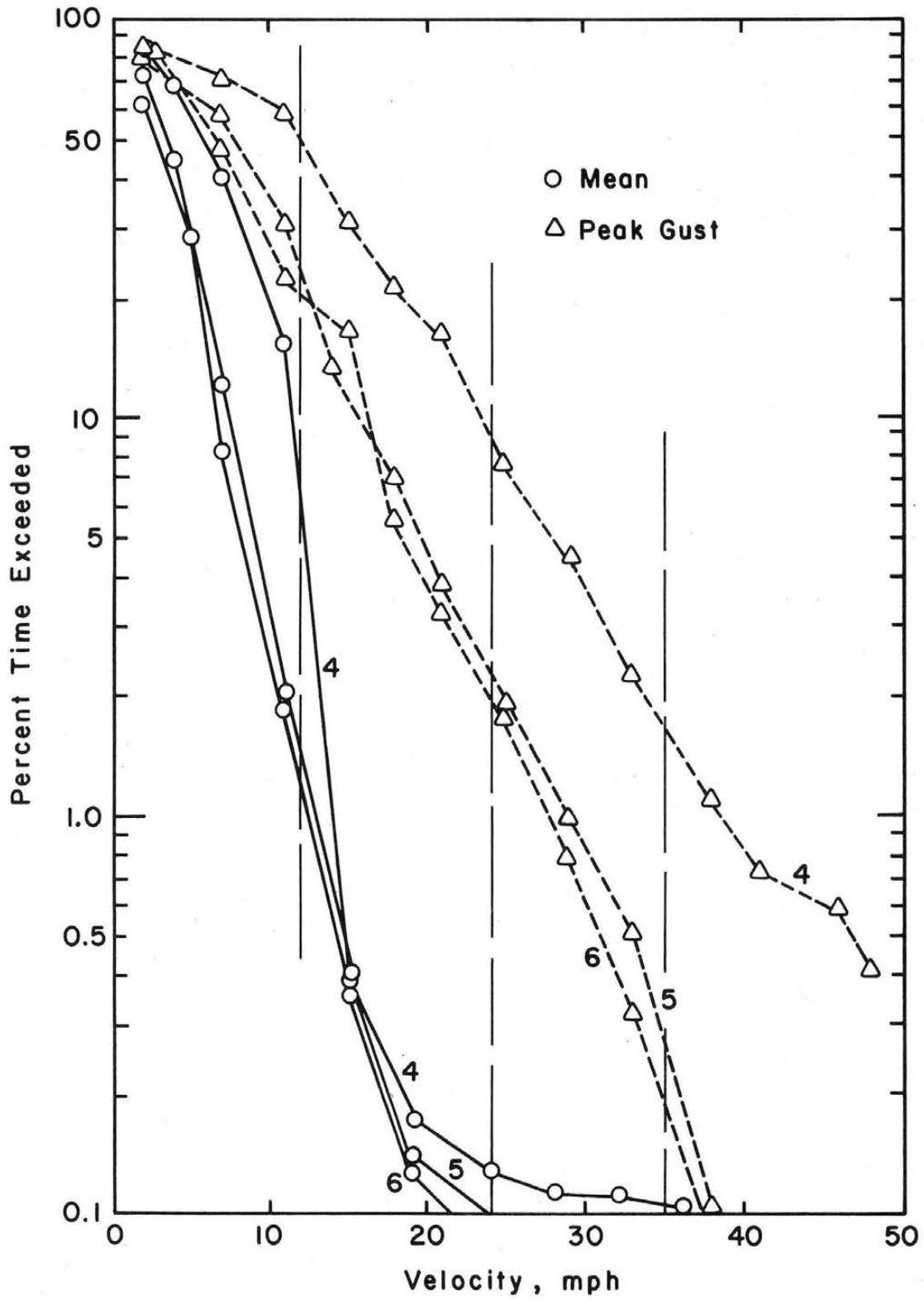


Figure 9b - Wind Velocity Probabilities for Pedestrian Locations

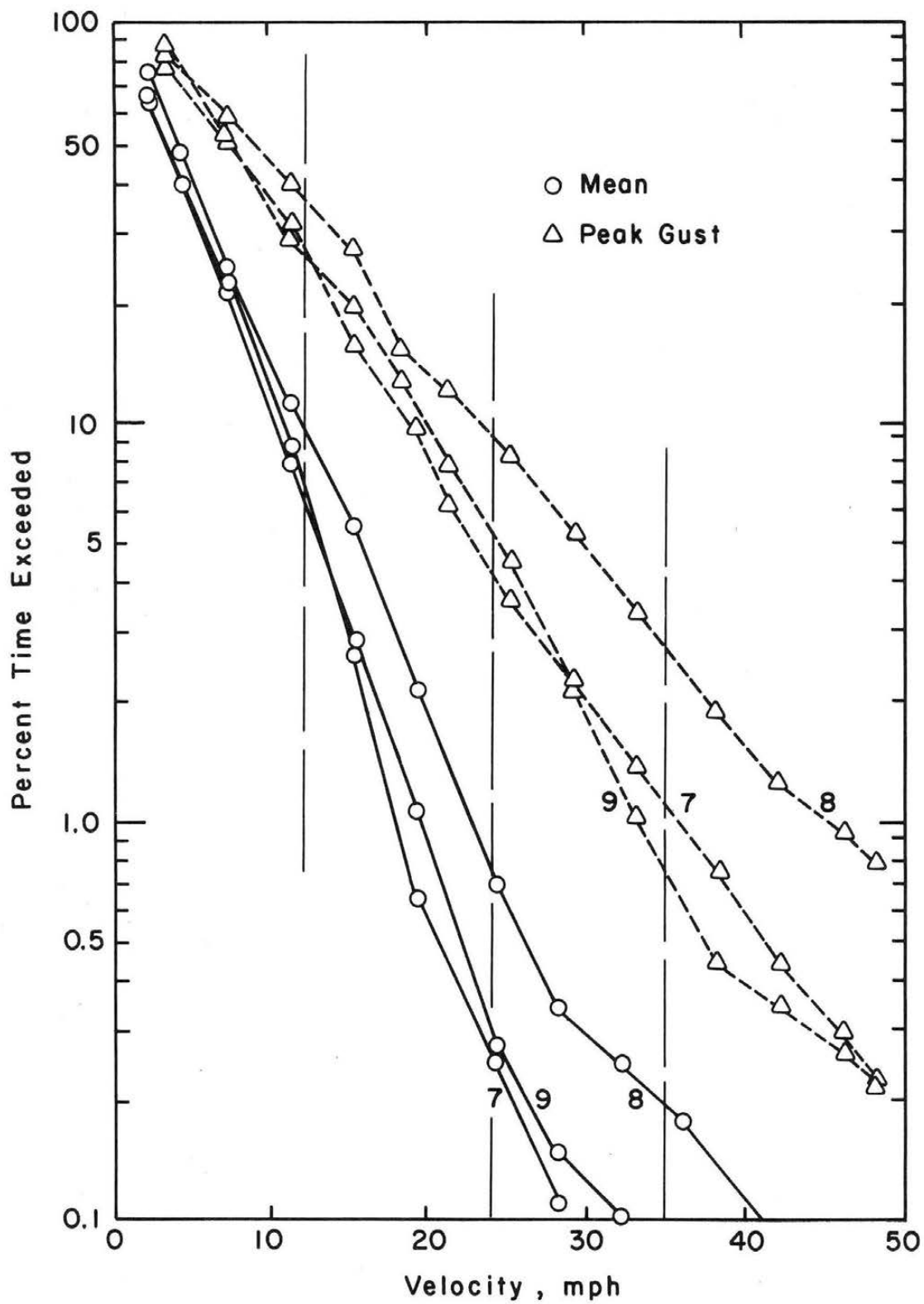


Figure 9c - Wind Velocity Probabilities for Pedestrian Locations

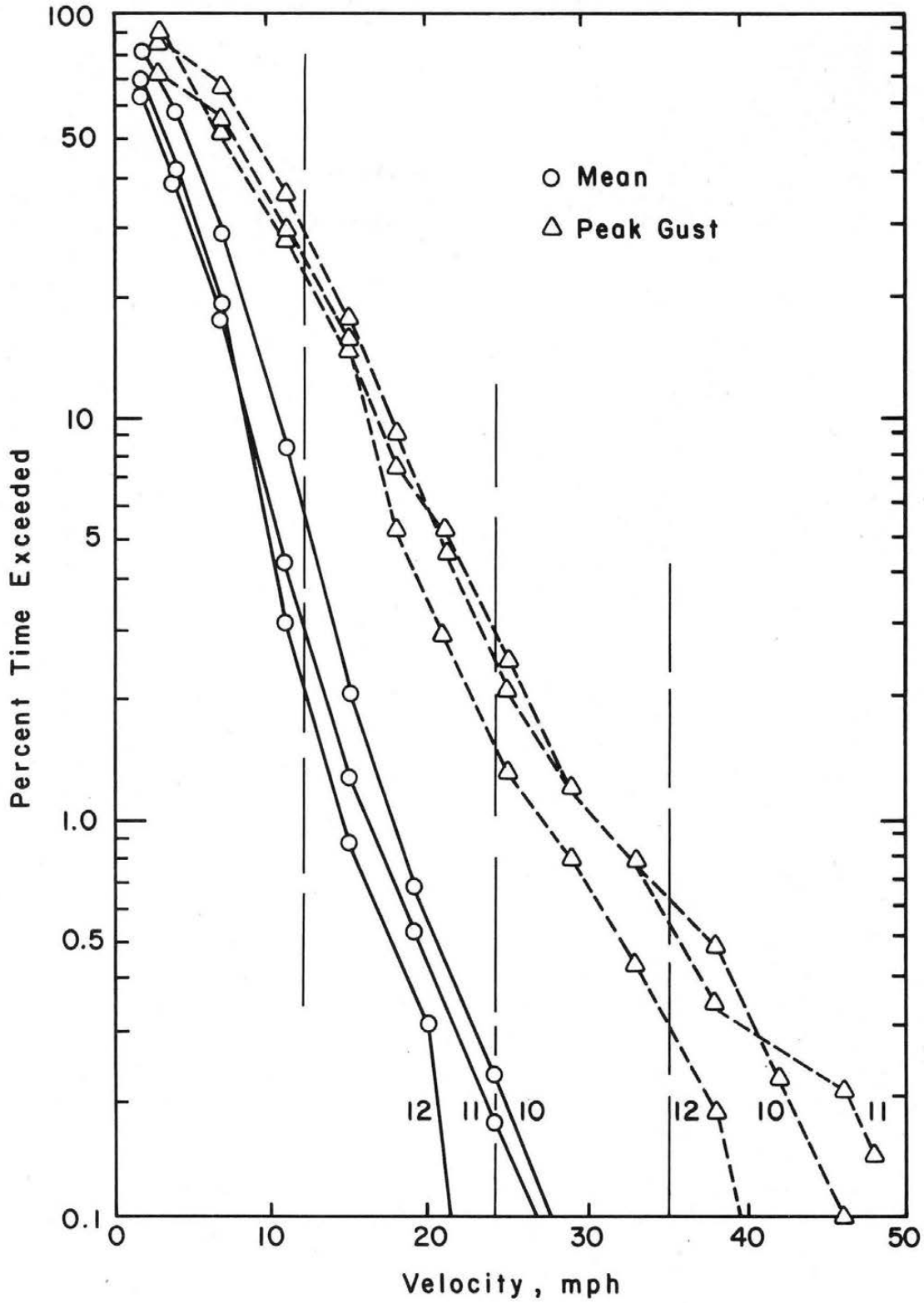


Figure 9d - Wind Velocity Probabilities for Pedestrian Locations

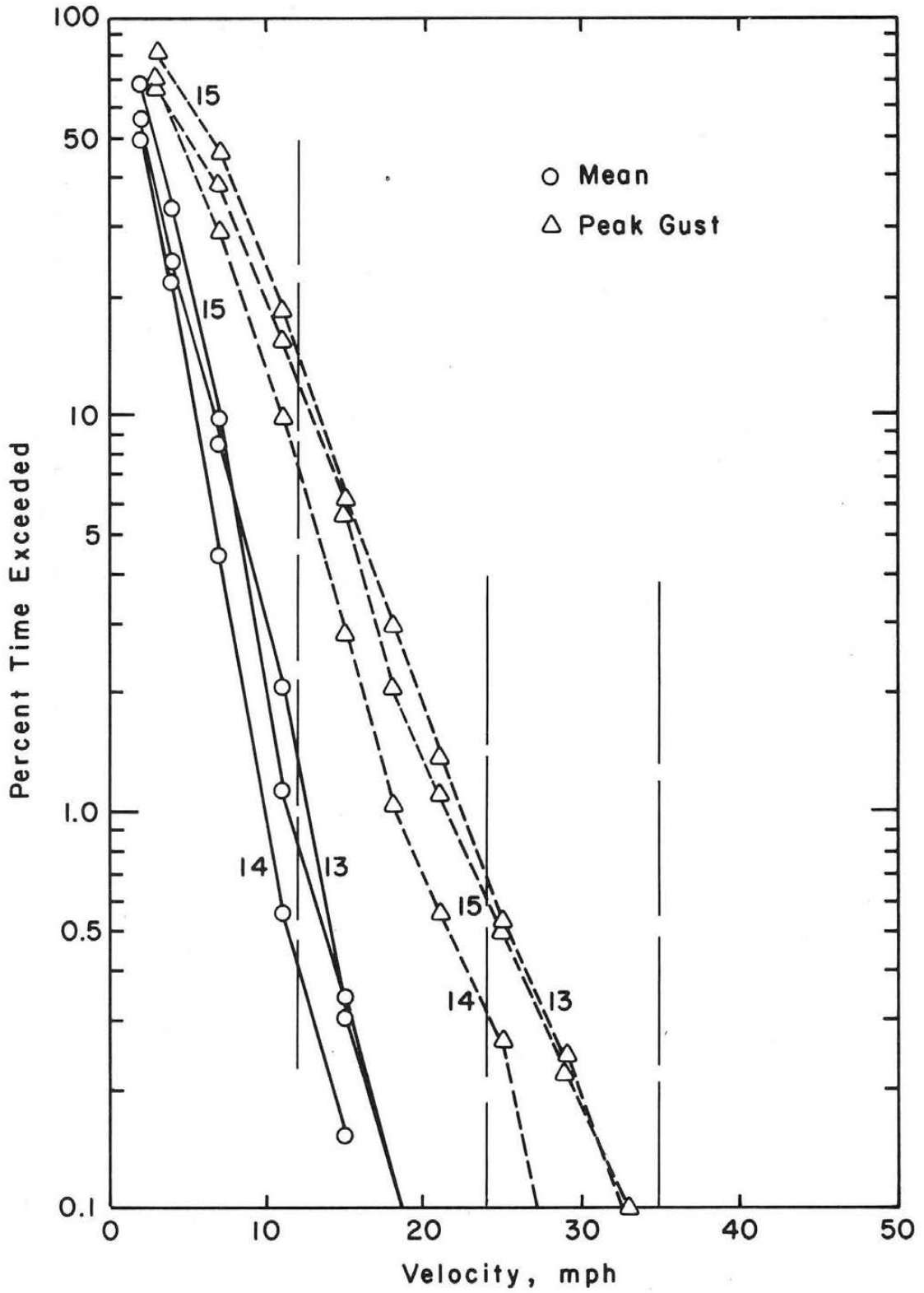


Figure 9e - Wind Velocity Probabilities for Pedestrian Locations

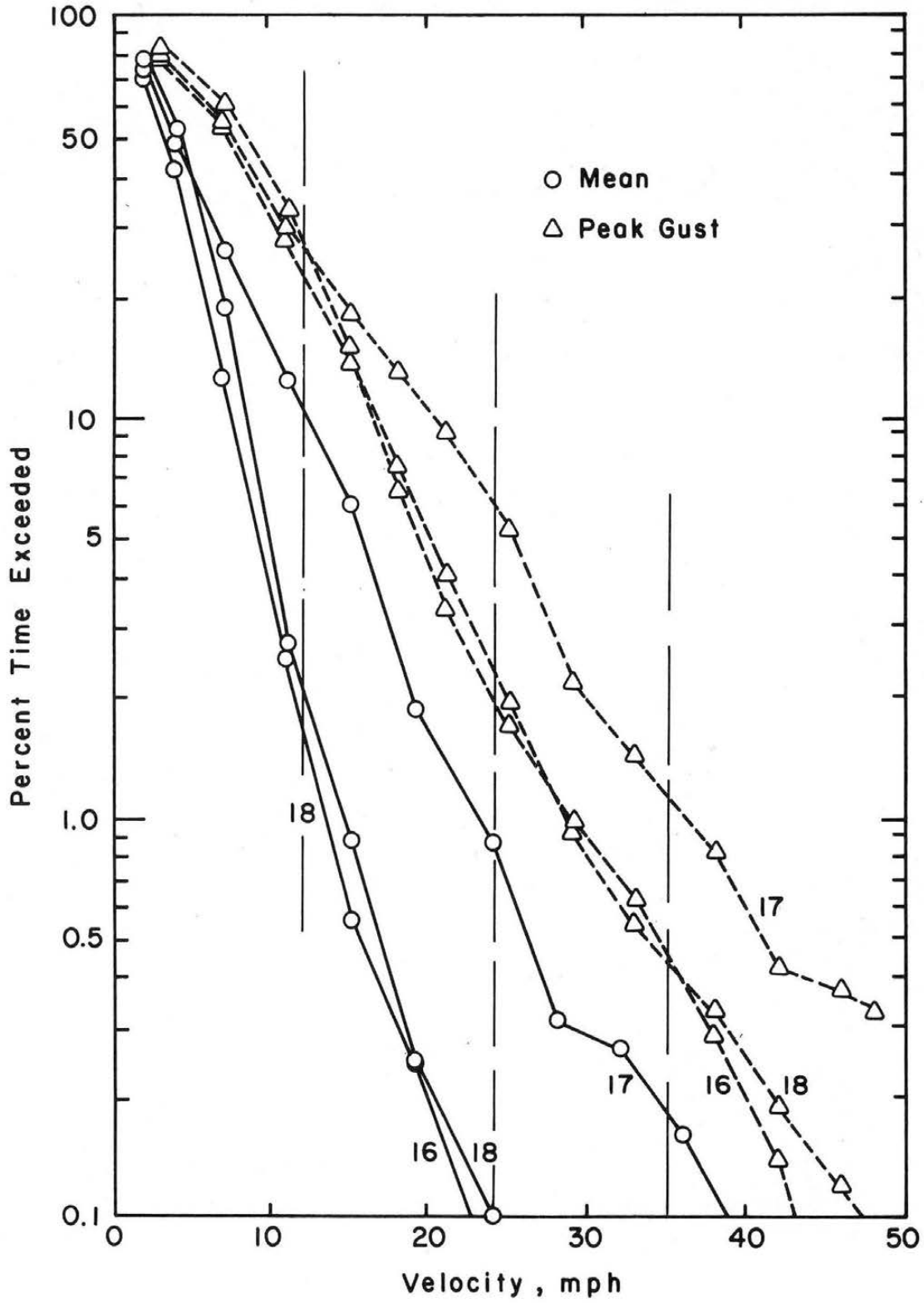
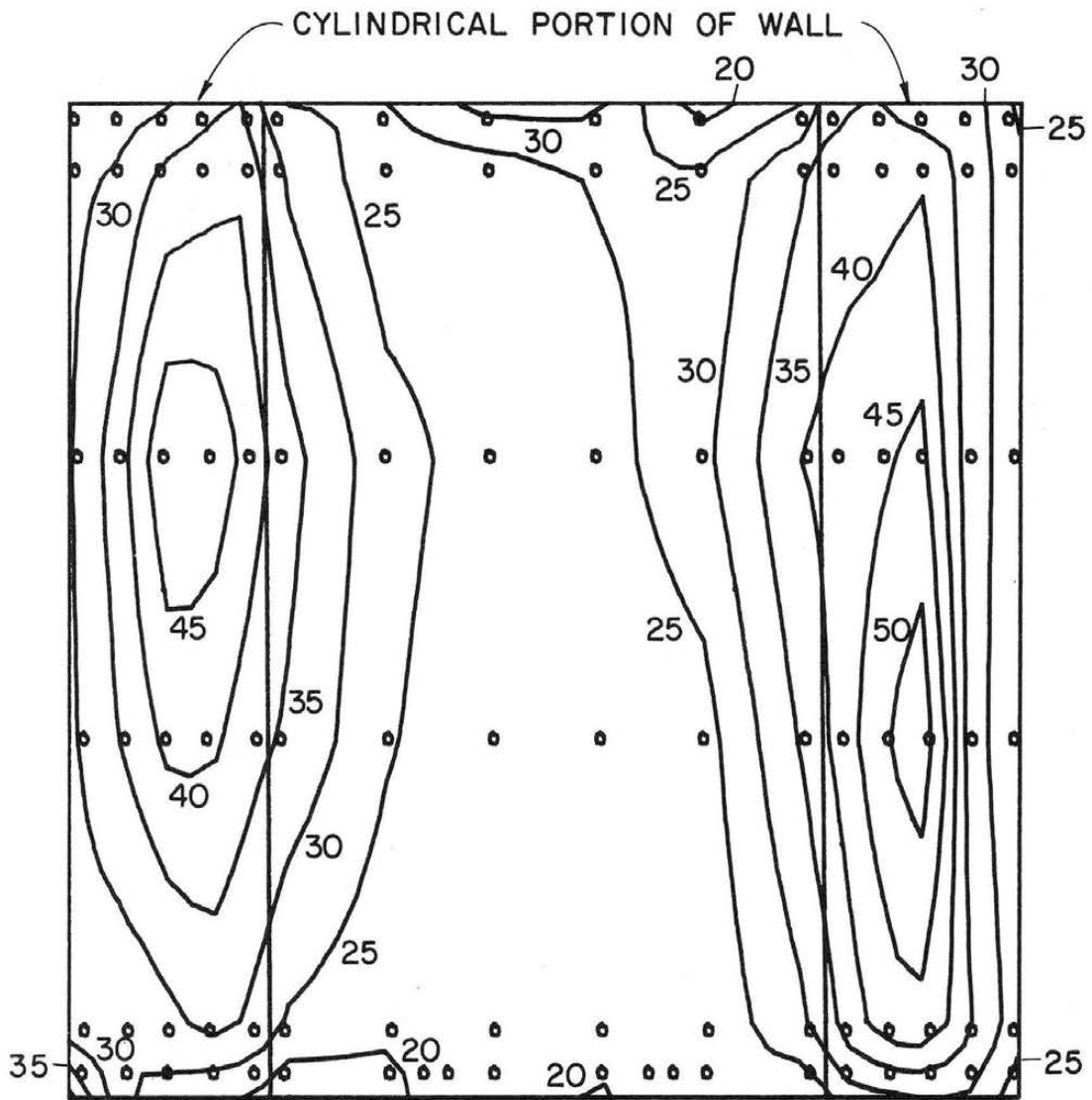


Figure 9f - Wind Velocity Probabilities for Pedestrian Locations



NORTH WALL

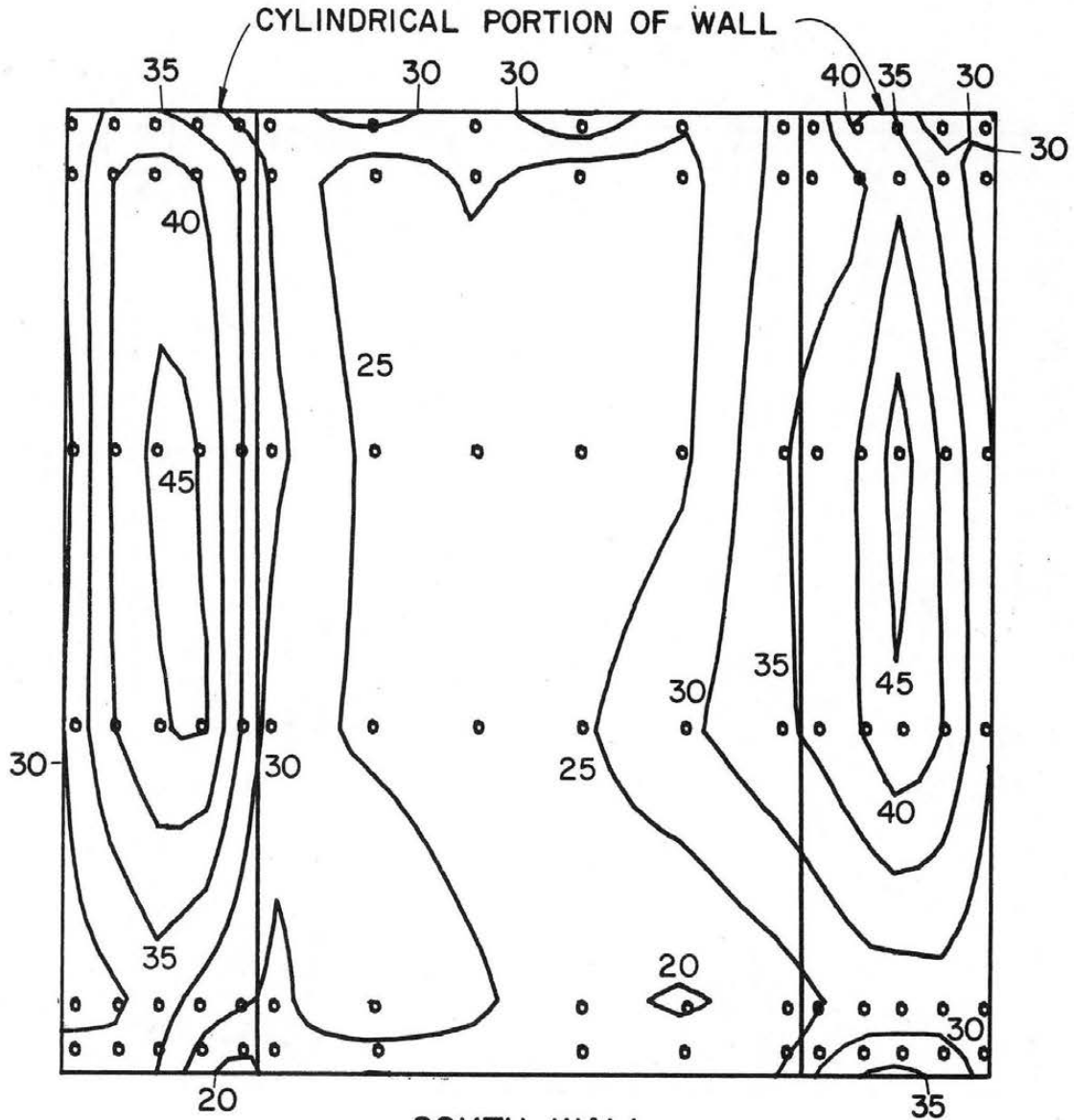
TOWNCENTER

SOUTHFIELD, MICHIGAN

REFERENCE PRESSURE = 31 psf

GLASS LOAD FACTOR = 0.73

Figure 10a - Peak-Pressure Contours on the Building for Glass Loads



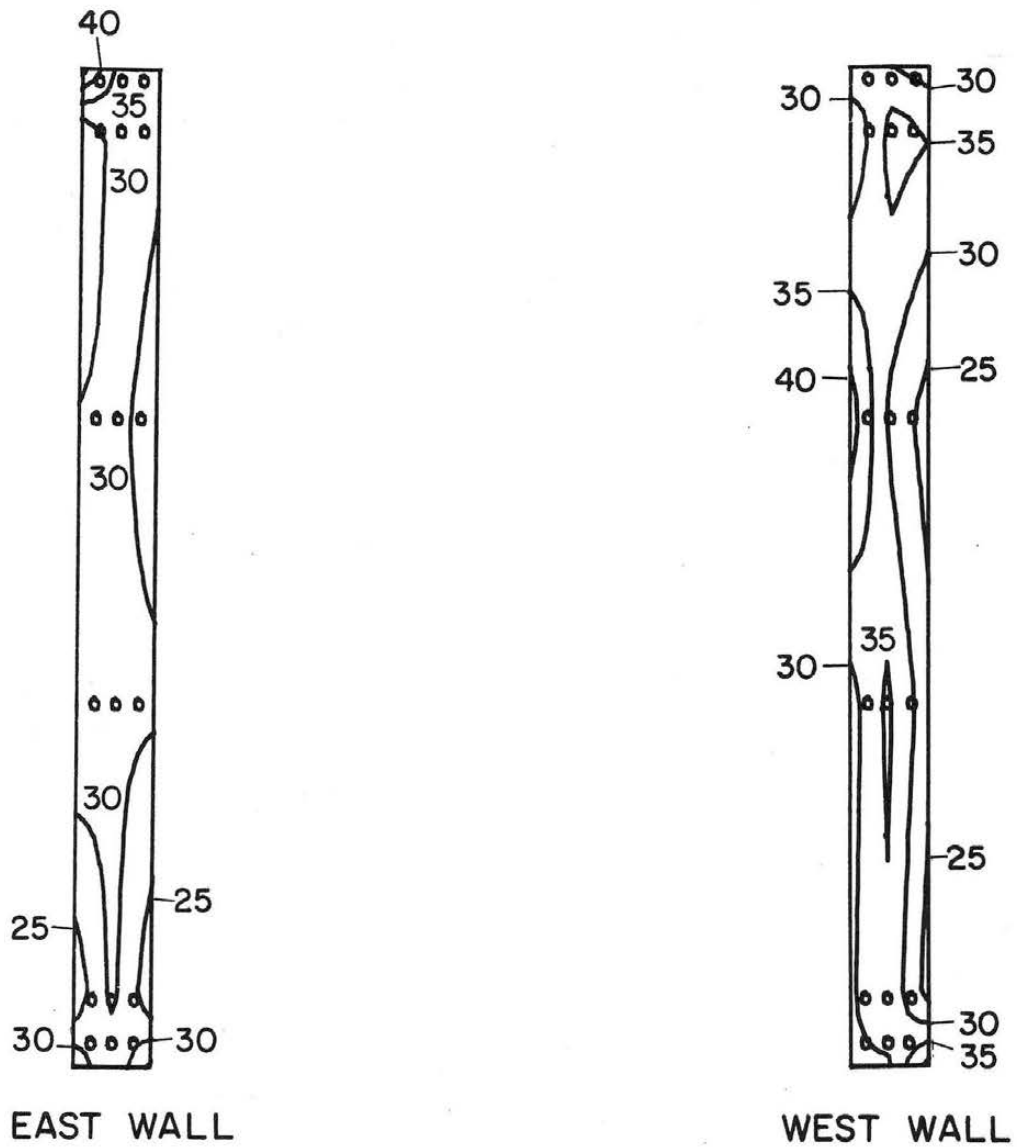
SOUTH WALL

TOWNCENTER

SOUTHFIELD, MICHIGAN

REFERENCE PRESSURE = 31 psf
GLASS LOAD FACTOR = 0.73

Figure 10b - Peak-Pressure Contours on the Building for Glass Loads



EAST WALL

WEST WALL

TOWNCENTER

SOUTHFIELD, MICHIGAN

REFERENCE PRESSURE = 31 psf
 GLASS LOAD FACTOR = 0.73

Figure 10c - Peak-Pressure Contours on the Building for Glass Loads

TABLE 1. MOTION PICTURE SCENE GUIDE -- TOWN CENTER (Phase 2 Building)

Run	Wind Azimuth	Views
1	00°	S(H), T(H), S(L), T(H)
2	45°	S(H), T(H), S(L), T(H)
3	90°	S(H), T(H), S(L), T(H)
4	135°	S(H), T(H), S(L), T(H)
5	180°	S(H), T(H), S(L), T(H)
6	225°	S(H), T(H), S(L), T(H)
7	270°	S(H), T(H), S(L), T(H)
8	315°	S(H), T(H), S(L), T(H)

Total length \cong 483 ft

Running Time \cong 13 min

Where:

S: side view

T: top view

H: high viewing angle

L: low viewing angle

Table 2. PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
TOWNCENTER II SOUTHFIELD, MICH.

POSITION 1				POSITION 2			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	22.4	13.0	58.2	0.00	16.0	9.7	60.8
22.50	30.8	9.2	30.0	22.50	14.9	8.4	56.4
45.00	29.7	9.3	31.4	45.00	18.4	8.7	47.2
67.50	34.1	9.6	28.2	67.50	23.5	8.8	37.3
90.00	29.7	8.8	29.6	90.00	24.5	7.7	31.4
112.50	34.1	8.8	25.7	112.50	22.6	11.5	50.8
135.00	38.5	9.1	23.7	135.00	6.6	4.0	59.9
157.50	38.8	9.5	24.6	157.50	10.5	5.6	52.8
180.00	37.2	8.8	23.7	180.00	14.9	7.5	50.0
202.50	24.7	11.8	47.8	202.50	9.7	6.5	66.9
225.00	16.6	10.6	63.9	225.00	15.7	8.8	56.0
247.50	20.5	11.3	55.3	247.50	11.6	7.6	65.7
270.00	56.9	11.4	20.0	270.00	36.2	14.5	39.9
292.50	31.2	11.3	36.3	292.50	39.7	14.0	35.2
315.00	25.0	13.7	54.7	315.00	68.3	14.4	21.1
337.50	34.8	14.8	42.5	337.50	28.3	15.0	52.9

POSITION 3				POSITION 4			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	28.7	13.7	47.7	0.00	71.3	12.5	17.5
22.50	22.5	12.5	55.8	22.50	63.5	12.7	20.0
45.00	18.6	8.9	47.7	45.00	62.4	8.8	14.0
67.50	8.4	5.1	60.6	67.50	47.5	8.5	17.8
90.00	7.4	5.3	71.3	90.00	29.5	11.3	38.3
112.50	8.0	5.5	68.8	112.50	41.6	8.6	20.8
135.00	10.6	6.8	63.9	135.00	64.2	12.6	19.6
157.50	12.4	8.1	65.1	157.50	70.9	11.2	15.8
180.00	13.2	10.2	76.9	180.00	61.5	14.0	22.7
202.50	6.7	5.2	77.6	202.50	29.8	17.4	58.3
225.00	20.6	14.5	70.4	225.00	62.1	17.1	27.5
247.50	14.6	9.7	66.2	247.50	42.2	17.5	41.5
270.00	48.6	13.4	27.6	270.00	44.3	13.4	30.1
292.50	42.3	12.3	29.1	292.50	49.3	18.9	38.3
315.00	43.1	11.6	26.9	315.00	54.3	23.6	43.5
337.50	49.9	16.7	33.4	337.50	46.5	20.6	44.3

Table 2. PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
TOWNCENTER II SOUTHFIELD, MICH.

POSITION 5				POSITION 6			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	23.8	16.1	67.7	0.00	23.7	10.3	43.7
22.50	38.4	18.9	49.1	22.50	16.4	9.1	55.7
45.00	16.0	8.2	51.0	45.00	18.7	9.2	49.4
67.50	31.3	8.1	26.0	67.50	38.9	10.4	26.7
90.00	47.8	8.3	17.4	90.00	56.6	10.2	18.1
112.50	51.5	9.8	19.1	112.50	70.6	17.5	24.8
135.00	45.0	11.5	25.7	135.00	36.0	17.7	49.0
157.50	44.4	14.3	32.2	157.50	14.5	9.6	66.5
180.00	28.7	17.9	62.6	180.00	16.3	12.1	74.4
202.50	18.4	9.8	53.5	202.50	11.5	8.1	70.7
225.00	25.6	14.4	56.3	225.00	12.7	7.8	61.7
247.50	38.7	18.6	48.1	247.50	27.5	16.0	58.1
270.00	24.1	11.1	46.1	270.00	20.2	10.6	52.5
292.50	23.5	11.0	46.8	292.50	22.0	11.5	52.4
315.00	27.8	14.4	51.8	315.00	28.7	17.2	60.0
337.50	41.4	17.1	41.2	337.50	37.7	19.8	52.4

POSITION 7				POSITION 8			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	13.3	7.5	56.7	0.00	31.5	13.7	43.4
22.50	20.6	11.3	54.9	22.50	36.8	14.5	39.4
45.00	40.3	10.2	25.2	45.00	44.3	10.5	23.7
67.50	50.0	9.6	19.3	67.50	50.1	10.0	19.9
90.00	55.6	9.9	17.8	90.00	55.2	9.4	17.0
112.50	25.9	17.3	66.8	112.50	47.2	21.4	45.4
135.00	13.3	8.8	66.2	135.00	20.0	12.0	60.0
157.50	13.4	9.1	67.8	157.50	15.9	9.4	59.3
180.00	11.6	7.8	67.4	180.00	14.0	8.5	60.9
202.50	11.7	9.0	76.9	202.50	14.6	10.8	73.6
225.00	18.6	12.4	66.5	225.00	26.3	16.2	61.8
247.50	39.4	25.7	65.1	247.50	51.0	25.9	50.7
270.00	48.5	14.1	29.1	270.00	79.0	14.7	18.6
292.50	53.1	12.9	24.4	292.50	76.4	30.4	39.8
315.00	59.1	13.3	22.5	315.00	31.9	13.8	43.4
337.50	56.3	23.2	41.2	337.50	25.2	10.4	41.1

Table 2. PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
TOWNCENTER II SOUTHFIELD, MICH.

POSITION 9				POSITION 10			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	38.1	11.6	30.5	0.00	47.8	15.4	32.1
22.50	46.4	13.8	29.7	22.50	65.5	16.9	25.8
45.00	58.4	10.9	18.7	45.00	61.9	11.6	18.8
67.50	58.1	9.8	16.9	67.50	60.8	10.5	17.3
90.00	56.8	10.3	18.1	90.00	45.2	9.3	20.6
112.50	19.4	13.0	67.0	112.50	19.6	10.7	54.9
135.00	14.8	9.2	61.9	135.00	27.0	13.6	50.2
157.50	15.3	8.7	56.8	157.50	44.1	24.5	55.7
180.00	14.8	9.7	65.3	180.00	42.5	21.5	50.5
202.50	11.9	9.6	81.1	202.50	48.6	12.3	25.2
225.00	15.3	12.4	81.5	225.00	55.2	8.3	15.0
247.50	54.4	31.6	58.2	247.50	56.6	8.3	14.7
270.00	71.3	11.0	15.5	270.00	24.7	5.9	23.8
292.50	41.5	9.9	23.9	292.50	30.4	6.6	21.6
315.00	20.7	9.6	46.5	315.00	38.1	8.5	22.2
337.50	20.3	9.6	47.1	337.50	28.3	7.6	26.9

POSITION 11				POSITION 12			
WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)	WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	67.6	14.3	21.2	0.00	41.9	11.5	27.4
22.50	54.3	24.8	45.6	22.50	59.4	16.2	27.2
45.00	15.4	10.1	65.8	45.00	54.1	18.8	34.7
67.50	8.4	4.0	47.3	67.50	27.6	15.3	55.3
90.00	10.9	5.0	46.0	90.00	14.5	8.2	56.6
112.50	13.5	7.1	52.2	112.50	38.9	13.8	35.5
135.00	41.1	17.8	43.2	135.00	55.6	13.0	23.3
157.50	57.3	21.0	36.6	157.50	54.1	16.4	30.3
180.00	52.4	22.9	43.7	180.00	30.7	18.4	59.9
202.50	35.7	12.4	34.8	202.50	44.5	12.4	27.9
225.00	45.0	10.6	23.6	225.00	37.4	8.8	23.7
247.50	39.1	9.3	23.9	247.50	35.4	9.0	25.4
270.00	16.2	7.7	47.5	270.00	10.2	5.5	54.1
292.50	13.9	9.3	67.1	292.50	12.5	6.5	52.3
315.00	21.3	12.3	58.1	315.00	24.2	8.7	36.0
337.50	8.8	6.8	77.5	337.50	26.1	9.2	35.1

Table 2. PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
TOWNCENTER II SOUTHFIELD, MICH.

POSITION 13

WIND AZIMUTH	U/UIINF (PERCENT)	URMS/UIINF (PERCENT)	URMS/U (PERCENT)
0.00	17.5	10.5	60.2
22.50	20.7	10.3	49.6
45.00	11.1	5.5	49.6
67.50	11.1	5.0	45.4
90.00	1.1	.9	81.1
112.50	7.6	3.0	39.3
135.00	9.1	3.7	40.3
157.50	16.6	11.1	67.0
180.00	25.2	18.3	72.7
202.50	19.6	10.2	52.1
225.00	21.7	9.3	42.7
247.50	17.5	8.2	46.7
270.00	24.0	8.1	33.9
292.50	32.4	8.6	26.4
315.00	43.6	9.8	22.5
337.50	44.7	8.1	18.2

POSITION 14

WIND AZIMUTH	U/UIINF (PERCENT)	URMS/UIINF (PERCENT)	URMS/U (PERCENT)
0.00	22.3	11.1	49.7
22.50	19.5	10.3	52.8
45.00	17.2	9.0	52.6
67.50	20.2	10.5	52.2
90.00	34.5	11.9	34.6
112.50	19.4	8.9	46.2
135.00	8.9	4.0	45.1
157.50	13.0	6.9	53.2
180.00	13.7	7.0	51.0
202.50	12.9	6.9	53.7
225.00	10.0	4.8	48.1
247.50	10.1	4.9	48.4
270.00	30.1	6.3	20.9
292.50	29.5	5.7	19.4
315.00	30.4	8.8	28.9
337.50	23.2	11.4	49.2

POSITION 15

WIND AZIMUTH	U/UIINF (PERCENT)	URMS/UIINF (PERCENT)	URMS/U (PERCENT)
0.00	20.4	11.1	54.2
22.50	25.6	11.1	43.5
45.00	34.5	13.1	38.1
67.50	29.7	12.2	41.3
90.00	26.4	10.2	38.5
112.50	32.2	11.7	36.2
135.00	38.4	15.7	41.0
157.50	26.2	12.8	48.9
180.00	22.2	11.9	53.7
202.50	31.8	14.5	45.6
225.00	15.4	7.8	50.4
247.50	15.6	7.8	50.1
270.00	32.3	7.9	24.4
292.50	37.5	6.2	16.7
315.00	35.6	7.1	19.9
337.50	26.1	7.4	28.3

POSITION 16

WIND AZIMUTH	U/UIINF (PERCENT)	URMS/UIINF (PERCENT)	URMS/U (PERCENT)
0.00	33.6	13.5	40.3
22.50	36.6	17.5	47.9
45.00	43.8	9.3	21.3
67.50	42.6	8.2	19.2
90.00	45.3	9.9	21.8
112.50	46.2	10.7	23.2
135.00	42.0	12.4	29.6
157.50	44.3	15.0	33.8
180.00	50.6	22.8	45.1
202.50	42.4	15.0	35.3
225.00	36.1	12.5	34.7
247.50	42.5	14.3	33.8
270.00	36.7	9.6	26.1
292.50	30.0	6.7	22.2
315.00	17.6	8.1	45.8
337.50	29.7	10.1	34.0

Table 2. PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
TOWNCENTER II SOUTHFIELD, MICH.

POSITION 17

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	17.5	8.3	47.7
22.50	26.2	11.1	42.3
45.00	32.6	10.2	31.2
67.50	22.8	10.2	44.8
90.00	52.4	14.8	28.2
112.50	40.0	10.1	25.2
135.00	25.8	10.7	41.6
157.50	41.2	10.6	25.8
180.00	65.4	16.3	24.9
202.50	69.4	15.0	21.7
225.00	82.7	14.8	17.9
247.50	78.3	15.9	20.3
270.00	37.0	8.2	22.1
292.50	28.6	6.5	22.6
315.00	20.9	7.2	34.4
337.50	17.7	8.9	50.5

POSITION 18

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	19.6	12.0	61.3
22.50	21.1	13.3	63.0
45.00	27.2	9.8	35.8
67.50	40.2	14.8	36.9
90.00	58.7	14.0	23.9
112.50	40.2	10.8	27.0
135.00	35.2	8.7	24.6
157.50	23.1	9.0	38.9
180.00	33.6	15.7	46.7
202.50	30.9	15.5	50.1
225.00	32.5	12.5	38.5
247.50	26.1	8.6	32.8
270.00	46.6	16.0	34.3
292.50	31.4	17.6	55.9
315.00	21.4	8.7	40.4
337.50	12.8	7.0	54.2

TABLE 3. ANNUAL PERCENTAGE FREQUENCIES OF WIND DIRECTION AND SPEED

Based on Summary of Hourly Observations
 Detroit, Michigan
 City Airport
 1951-1960

Annual Hourly Observation of Wind Speed--Miles per Hour									
Direction	0-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	>47
N	0.9	3.0	3.0	2.0	0.1	0.08	0.07	-	-
NNE	0.2	1.0	2.0	1.0	0.1	0.08	-	-	-
NE	1.0	1.0	1.0	1.0	0.1	-	-	-	-
ENE	0.2	1.0	2.0	1.0	0.1	-	-	-	-
E	1.0	2.0	2.0	1.0	0.1	0.08	-	-	-
ESE	0.2	1.0	2.0	0.4	0.1	-	-	-	-
SE	1.0	2.0	2.0	0.4	0.1	-	-	-	-
SSE	0.2	1.0	1.0	0.4	0.1	0.08	-	-	-
S	1.0	3.0	4.0	1.0	0.1	0.08	-	-	-
SSW	0.2	1.0	2.0	2.0	0.1	0.08	0.07	-	-
SW	0.2	1.0	3.0	4.0	0.9	0.08	0.07	0.05	0.05
WSW	0.2	1.0	2.0	2.0	0.1	0.08	0.07	-	-
W	0.2	1.0	3.0	3.0	0.9	0.08	0.07	0.05	-
WNW	0.2	1.0	2.0	3.0	0.9	0.08	0.07	0.05	-
NW	1.0	2.0	3.0	3.0	0.9	0.08	0.07	-	-
NNW	0.2	1.0	1.0	1.0	0.1	0.08	-	-	-
CALM	1.0	-	-	-	-	-	-	-	-
Totals	7.9	22.9	36.8	25.9	4.9	0.9	0.5	0.15	0.05

TABLE 4
SUMMARY OF WIND EFFECTS ON PEOPLE

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

Note: Table from Reference 4, p. 40

TABLE 5

REFERENCE PRESSURE

Towncenter II Building, Southfield, Michigan

Basic wind speed from ANSI A58.1 (Ref. 5):

50 yr fastest mile at 30 ft = 80 mph.

Mean hourly wind speed, 30 ft = $\frac{80}{1.28} = 62.5$ mph.Mean hourly wind speed, gradient level = $U_{\infty} = 62.5 \left(\frac{1040}{30}\right)^{0.16} = 110$ mph.Reference pressure for cladding loads = $0.5 \rho U_{\infty}^2 = 0.00256 U_{\infty}^2 = \underline{\underline{31}}$ psf.

To reduce cladding peak pressures to 1 minute equivalent load
for glass, multiply by glass load factor = 0.73 (Ref. 8).

Loads for 100 year recurrence wind:

100 year fastest mile at 30 ft = 89 mph.

Multiplication factor for 100 year winds = $\left(\frac{89}{80}\right)^2 = 1.24$.

TABLE 6 --

PEAK LOADS-- TOWN CENTER PROJ. -- PHASE 2 -- SOUTHFIELD, MICHIGAN
 LARGEST VALUE OF ABS(CPMAX) OR ABS(CPMIN) AND PSF LOAD FOR REFERENCE PRESSURE = 31 PSF, GLASS LOAD FACTOR = 0.73

TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD
101	180	1.47	33.7	131	345	1.33	30.6	201	105	1.05	24.2	310	345	1.37	31.6
102	180	1.64	37.8	132	345	1.35	31.1	202	150	.92	21.2	311	165	1.30	29.8
103	180	1.92	44.2	133	130	1.26	29.0	203	120	.93	21.3	312	165	1.35	31.0
104	165	1.58	36.3	134	135	1.34	30.9	204	0	.93	21.4	313	180	1.63	37.5
105	165	1.33	30.6	135	105	1.65	38.0	205	225	.93	21.5	314	180	1.61	37.0
106	180	2.45	56.4	136	105	2.15	49.4	206	255	1.28	29.4	315	180	1.50	34.5
107	150	1.76	40.5	137	105	2.12	48.8	207	255	1.59	36.7	316	285	1.29	29.7
108	180	1.66	38.2	138	105	1.89	43.4	208	255	1.86	42.8	317	285	1.21	27.8
109	165	1.66	38.3	139	105	1.63	37.5	209	255	1.88	43.3	318	195	1.32	30.5
110	210	1.40	32.2	140	105	1.17	27.0	210	240	1.54	35.5	319	300	1.14	26.2
111	0	1.38	31.7	141	105	.99	22.2	211	165	1.22	28.2	320	45	1.44	32.0
112	165	1.26	28.9	142	120	1.20	28.0	212	15	1.16	26.7	321	45	1.09	25.0
113	345	1.24	28.4	143	225	1.24	28.6	213	165	1.08	24.9	322	210	1.35	31.0
114	120	1.33	30.6	144	235	1.24	28.6	214	165	1.24	28.6	323	210	1.36	31.1
115	105	1.50	34.4	145	235	1.80	41.3	215	345	1.19	27.4	324	210	1.78	40.0
116	105	1.59	36.5	146	235	1.92	44.2	216	315	1.28	29.4	325	210	1.54	35.5
117	105	1.13	26.1	147	235	2.03	46.6	217	330	1.47	33.9	326	165	1.15	26.5
118	120	1.04	24.0	148	240	1.40	32.3	218	330	1.09	25.0	327	180	1.40	32.1
119	225	1.28	29.5	149	150	1.21	27.7	219	330	1.09	25.0	328	0	1.48	34.0
120	120	1.31	30.2	170	0	1.16	26.7	220	105	1.07	24.6	329	15	1.13	26.0
121	255	.84	19.4	171	345	1.36	31.3	221	105	1.02	23.4	330	345	1.33	30.5
122	240	1.18	27.2	172	345	1.44	33.2	222	105	.80	18.3	331	345	1.64	37.6
123	235	1.51	34.8	173	345	1.35	31.0	223	15	.81	18.6	332	180	1.58	36.4
124	195	1.57	36.2	174	180	1.35	31.0	224	165	.95	21.8	333	165	1.41	32.5
125	180	1.46	33.5	175	345	1.34	30.8	225	15	.98	22.6	334	180	1.74	40.1
126	195	1.48	34.0	176	345	1.56	35.8	226	15	.95	21.8	335	180	1.86	42.8
127	345	1.15	26.5	177	105	1.79	41.3	227	15	.88	20.2	336	180	1.76	40.4
128	180	1.25	28.7	178	105	1.81	41.6	228	330	.94	21.7	337	180	1.53	35.2
129	345	1.20	27.6	179	105	1.58	36.4	229	330	.92	21.1	338	285	1.25	28.7
130	165	1.26	29.0	180	105	1.51	34.8	230	240	.98	22.6	339	60	.90	20.0
131	180	1.44	33.1	181	105	1.11	25.5	231	255	1.03	23.8	340	195	1.14	26.2
132	0	1.38	31.8	182	105	.96	20.7	232	255	1.35	31.0	341	180	.92	21.1
133	120	1.26	29.0	183	240	.91	21.0	233	255	1.48	34.0	342	165	1.01	23.1
1334	330	1.32	30.4	184	240	.99	22.9	234	255	1.52	35.0	343	75	1.37	31.6
1335	105	1.56	35.9	185	255	1.11	25.0	235	165	1.38	31.7	344	60	1.40	32.0
1336	105	1.64	37.6	186	255	1.36	35.3	236	165	1.09	25.0	345	60	1.46	32.5
1337	105	1.71	39.4	187	255	2.28	55.0	237	165	1.01	23.2	346	60	1.69	36.8
1338	105	1.29	29.6	188	255	2.28	55.0	238	300	1.72	39.4	347	60	1.45	32.0
1339	195	.95	21.8	189	150	1.41	32.4	239	180	1.34	30.7	348	165	1.16	26.7
140	135	.95	21.9	190	150	1.14	26.3	240	180	1.38	31.6	349	345	1.15	26.4
141	120	1.11	25.5	191	345	1.18	27.1	241	180	1.09	25.2	350	165	1.64	37.8
142	120	1.11	25.6	192	225	.93	21.4	301	315	1.22	28.1	351	165	1.59	36.0
143	225	1.49	34.4	193	225	1.13	25.9	302	75	1.23	28.2	352	180	1.25	28.7
144	225	1.67	38.3	194	345	1.36	31.1	303	300	1.73	39.7	353	0	1.09	25.1
145	225	1.64	37.7	195	345	1.42	32.5	304	345	1.50	34.5	354	315	1.33	30.6
146	240	1.72	39.5	196	225	1.16	26.8	305	0	1.27	29.1	355	180	1.81	41.6
147	240	1.44	33.1	197	225	1.42	32.5	306	345	1.83	42.0	356	180	2.03	46.6
148	180	1.21	27.9	198	330	1.22	28.1	307	285	1.59	36.5	357	180	2.01	46.2
149	180	1.77	40.8	199	105	1.37	31.5	308	345	1.62	37.3	358	285	1.49	34.2
150	345	1.51	34.6	200	105	1.26	29.0	309	345	1.41	32.3	359	285	1.37	31.4

TABLE 6 --

PEAK LOADS-- TOWN CENTER PROJ. -- PHASE 2 -- SOUTHFIELD, MICHIGAN
 LARGEST VALUE OF ABS(CPMAX) OR ABS(CPHIN) AND PSF LOAD FOR REFERENCE PRESSURE = 31 PSF, GLASS LOAD FACTOR = 0.73

TAP	AZI- MUTH	PRESS COEFF	PSF LOAD	TAP	AZI- MUTH	PRESS COEFF	PSF LOAD	TAP	AZI- MUTH	PRESS COEFF	PSF LOAD	TAP	AZI- MUTH	PRESS COEFF	PSF LOAD
360	300	1.02	23.5	379	180	1.48	34.1	398	180	1.41	32.3	418	150	1.37	31.6
361	165	.85	19.7	380	285	1.18	27.2	399	180	1.21	27.8	419	150	1.33	30.7
362	180	.93	21.5	381	315	1.04	23.9	400	15	1.12	25.8	420	150	1.03	23.8
363	60	1.04	23.9	382	300	.93	21.4	401	315	1.03	23.6	421	0	.86	19.7
364	60	1.51	34.8	383	15	1.06	24.4	402	180	1.33	30.7	422	330	1.02	23.6
365	210	1.62	37.2	384	15	1.27	29.2	404	180	.92	21.3	423	180	1.02	23.5
366	60	1.73	39.8	385	75	1.48	34.1	405	180	.82	19.0	427	180	1.00	23.1
367	60	2.08	47.8	386	60	1.58	36.4	406	330	.97	22.4	430	180	.97	22.4
368	60	1.68	38.6	387	60	1.75	40.3	407	345	1.05	24.3	431	330	1.04	24.0
369	180	1.35	31.1	388	60	1.96	45.1	408	330	1.17	26.8	432	330	1.24	28.4
370	165	1.17	26.8	389	60	1.74	40.0	409	330	1.14	26.2	433	330	1.41	32.5
371	165	1.22	28.1	390	180	1.38	31.6	410	345	1.20	27.7	434	330	1.45	33.3
372	165	1.38	31.7	391	165	1.19	27.4	411	210	1.16	26.6	435	330	1.37	31.6
373	165	1.37	31.6	392	150	1.20	27.6	412	315	.85	19.6	436	315	1.22	28.1
374	165	1.33	30.6	393	150	1.36	31.3	413	135	1.08	24.9	437	315	1.47	33.7
375	165	1.41	32.5	394	165	1.49	34.3	414	345	1.30	29.8	438	120	1.63	37.5
376	180	1.41	32.5	395	165	1.19	27.4	415	150	1.34	30.9	439	120	1.23	28.3
377	180	1.93	44.5	396	150	1.20	27.6	416	180	1.44	33.2	440	345	1.23	28.3
378	180	2.04	46.9	397	150	1.25	28.8	417	165	1.39	31.9	441	180	1.16	26.7

TABLE 6 --

PEAK LOADS-- TOWN CENTER PROJ. -- PHASE 2 -- SOUTHFIELD, MICHIGAN
 LARGEST VALUE OF ABS(CP MAX) OR ABS(CP MIN) AND PSF LOAD FOR REFERENCE PRESSURE = 31 PSF

TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD
101	180	1.47	45.4	151	345	1.33	41.3	201	105	1.05	32.6	310	345	1.37	42.6
102	180	1.64	50.9	152	345	1.35	41.9	202	150	.92	28.6	311	165	1.30	40.2
103	180	1.92	59.6	153	150	1.26	39.1	203	120	.93	28.7	312	165	1.35	41.8
104	165	1.38	43.0	154	135	1.34	41.7	204	0	.93	28.9	313	180	1.63	50.6
105	165	1.33	41.2	155	105	1.63	51.3	205	225	.93	28.9	314	180	1.61	49.8
106	180	2.43	74.1	156	105	2.22	66.6	206	255	1.28	39.6	315	180	1.50	46.4
107	150	1.76	55.6	157	105	2.22	66.6	207	255	1.59	49.4	316	180	1.39	40.0
108	180	1.66	51.4	158	105	1.89	58.6	208	255	1.86	57.6	317	225	1.21	37.5
109	165	1.66	51.4	159	105	1.63	50.6	209	255	1.88	58.4	318	195	1.32	40.0
110	210	1.40	43.5	160	105	1.17	36.4	210	240	1.54	47.9	319	300	1.14	35.3
111	0	1.38	42.8	161	105	.99	30.7	211	165	1.22	37.9	320	45	1.44	44.4
112	165	1.26	38.9	162	120	.99	30.7	212	15	1.16	36.0	321	1.09	33.6	
113	345	1.24	38.3	163	255	1.24	38.6	213	165	1.08	33.6	322	210	1.33	41.8
114	120	1.33	41.2	164	255	1.77	54.9	214	165	1.24	38.5	323	210	1.36	42.2
115	105	1.50	46.4	165	255	1.80	55.7	215	345	1.19	36.9	324	210	1.78	55.5
116	105	1.59	49.2	166	255	1.92	59.5	216	315	1.28	39.6	325	210	1.34	47.7
117	105	1.13	35.1	167	255	2.03	62.9	217	330	1.47	45.7	326	165	1.15	35.7
118	120	1.04	32.3	168	240	1.40	43.5	218	330	1.09	33.8	327	180	1.40	43.3
119	225	1.28	39.8	169	150	1.21	37.4	219	330	1.09	33.8	328	0	1.48	45.8
120	120	1.31	40.6	170	0	1.16	36.0	220	105	1.07	33.2	329	15	1.13	35.1
121	255	1.84	56.1	171	345	1.36	42.2	221	105	1.02	31.5	330	345	1.33	41.1
122	255	1.31	41.7	172	345	1.44	44.8	222	105	.80	24.7	331	345	1.64	50.7
123	255	1.18	38.9	173	345	1.35	41.8	223	15	.81	25.0	332	180	1.58	49.0
124	255	1.57	48.6	174	180	1.33	41.7	224	165	.95	29.4	333	165	1.41	43.8
125	255	1.46	45.9	175	345	1.34	41.8	225	15	.98	30.5	334	180	1.74	54.0
126	195	1.48	45.5	176	345	1.56	48.3	226	15	.95	29.4	335	180	1.86	57.7
127	345	1.15	38.8	177	105	1.79	55.6	227	15	.88	27.2	336	180	1.76	54.4
128	180	1.25	38.7	178	105	1.81	56.1	228	330	.94	29.2	337	180	1.53	47.5
129	345	1.20	37.3	179	105	1.58	49.0	229	330	.92	28.4	338	285	1.25	38.7
130	165	1.26	39.0	180	105	1.51	46.9	230	240	.98	30.5	339	60	1.90	27.7
131	180	1.44	44.4	181	105	1.11	34.6	231	255	1.03	32.0	340	195	1.14	35.5
132	0	1.38	42.8	182	105	.90	28.8	232	255	1.35	41.1	341	180	1.92	28.8
133	120	1.38	42.8	183	240	.91	28.8	233	255	1.48	45.8	342	165	1.05	28.2
134	330	1.32	40.9	184	240	.99	30.8	234	255	1.52	47.2	343	75	1.37	44.4
135	105	1.56	48.4	185	255	1.56	48.5	235	165	1.38	42.7	344	60	1.40	45.1
136	105	1.64	50.7	186	255	1.84	57.1	236	165	1.09	33.6	345	60	1.46	45.5
137	105	1.71	53.1	187	255	2.35	67.6	237	165	1.01	31.2	346	60	1.69	52.1
138	105	1.29	39.9	188	255	2.33	72.8	238	300	1.72	53.2	347	60	1.43	45.0
139	195	.93	29.9	189	150	1.41	43.6	239	180	1.34	41.4	348	11	1.16	36.0
140	135	.95	29.9	190	150	1.14	35.4	240	180	1.38	42.7	349	345	1.13	35.6
141	120	1.11	34.4	191	345	1.18	36.6	241	180	1.09	33.9	350	165	1.64	51.0
142	120	1.11	34.4	192	225	.93	28.9	301	315	1.22	37.9	351	165	1.59	49.4
143	225	1.49	46.3	193	225	1.13	34.9	302	75	1.23	38.0	352	180	1.25	38.7
144	255	1.67	51.7	194	345	1.36	42.3	303	300	1.73	53.6	353	0	1.09	33.8
145	255	1.64	50.9	195	345	1.12	34.6	304	345	1.50	46.4	354	315	1.33	41.2
146	255	1.72	53.3	196	225	1.16	36.1	305	0	1.27	39.2	355	180	1.81	56.0
147	240	1.44	44.4	197	225	1.12	34.6	306	345	1.83	56.6	356	180	2.03	62.8
148	180	1.21	37.7	198	330	1.22	37.9	307	285	1.59	49.2	357	180	2.01	62.3
149	180	1.77	53.7	199	105	1.37	42.4	308	345	1.62	50.5	358	225	1.49	46.1
150	345	1.51	46.7	200	105	1.26	39.0	309	345	1.41	43.6	359	225	1.37	42.3

TABLE 6 --

PEAK LOADS-- TOWN CENTER PROJ. -- PHASE 2 -- SOUTHFIELD, MICHIGAN
 LARGEST VALUE OF ABS(CPMAX) OR ABS(CPMIN) AND PSF LOAD FOR REFERENCE PRESSURE = 31 PSF

TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD	TAP	AZI-MUTH	PRESS COEFF	PSF LOAD
360	300	1.02	31.7	379	180	1.48	46.0	398	180	1.41	43.6	418	150	1.37	42.6
361	165	.85	26.5	380	285	1.18	36.7	399	180	1.21	37.4	419	150	1.33	41.3
362	180	.93	28.9	381	315	1.04	32.2	400	15	1.12	34.8	420	150	1.03	32.0
363	60	1.04	32.2	382	300	.93	28.8	401	315	1.03	31.9	421	0	.86	26.5
364	60	1.51	46.9	383	15	1.06	32.9	402	180	1.33	41.3	422	330	1.02	31.7
365	210	1.62	50.1	384	15	1.27	39.3	404	180	.92	28.7	423	180	1.02	31.6
366	60	1.73	53.6	385	75	1.48	46.0	405	180	.82	25.6	427	180	1.00	31.1
367	60	2.08	64.4	386	60	1.58	49.0	406	330	.97	30.1	430	180	.97	30.2
368	60	1.68	52.1	387	60	1.75	54.4	407	345	1.05	32.7	431	330	1.04	32.3
369	180	1.35	42.0	388	60	1.96	60.7	408	330	1.17	36.1	432	330	1.24	38.3
370	165	1.17	36.2	389	60	1.74	53.9	409	330	1.14	35.3	433	330	1.41	43.8
371	165	1.22	37.9	390	180	1.38	42.6	410	345	1.20	37.3	434	330	1.45	44.9
372	15	1.38	42.7	391	165	1.19	37.0	411	210	1.16	35.9	435	330	1.37	42.6
373	165	1.57	48.5	392	150	1.20	37.2	412	315	.85	26.4	436	315	1.22	37.9
374	165	1.33	41.2	393	150	1.36	42.2	413	135	1.08	33.6	437	315	1.47	45.4
375	165	1.41	43.8	394	165	1.49	46.2	414	345	1.30	40.2	438	120	1.63	50.5
376	180	1.77	54.7	395	165	1.19	36.9	415	150	1.34	41.6	439	120	1.23	38.2
377	180	1.93	59.9	396	150	1.20	37.2	416	180	1.44	44.8	440	345	1.23	38.1
378	180	2.04	63.2	397	150	1.23	38.8	417	165	1.39	43.0	441	180	1.16	36.0

APPENDIX A
PRESSURE DATA

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

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	101	.226	.084	.012	-.379	0	151	-.423	.166	.094	-1.166	0	201	.196	.099	.653	-.076
0	102	-.184	.081	.033	-.384	0	152	-.400	.167	-.021	-1.189	0	202	.330	.107	.766	-.084
0	103	-.186	.118	.145	-.631	0	153	-.443	.165	-.048	-1.184	0	203	.349	.113	.887	.116
0	104	-.206	.086	.014	-.397	0	154	-.433	.155	-.005	-1.148	0	204	.346	.108	.933	.129
0	105	-.214	.068	.010	-.512	0	155	-.348	.172	-.078	-1.248	0	205	.293	.094	.643	.053
0	106	-.136	.121	.233	-.808	0	156	-.454	.168	.073	-1.166	0	206	.134	.081	.461	-.126
0	107	-.278	.090	.016	-.689	0	157	-.203	.150	.416	-.871	0	207	-.069	.111	.313	-.306
0	108	-.327	.229	.814	-1.031	0	158	-.136	.153	.642	-.433	0	208	-.245	.133	.172	-.750
0	109	-.377	.194	.624	-1.101	0	159	-.313	.130	.787	-.045	0	209	-.390	.144	-.030	-1.082
0	110	-.457	.191	.476	-1.160	0	160	-.431	.139	.921	-.089	0	210	-.370	.131	-.061	-.998
0	111	-.520	.193	.043	-1.380	0	161	-.474	.134	.947	.100	0	211	-.312	.118	-.065	-.848
0	112	-.483	.147	.082	-1.073	0	162	-.484	.130	.923	.117	0	212	-.201	.111	.382	-.671
0	113	-.358	.131	.206	-1.177	0	163	-.428	.129	.827	-.063	0	213	-.072	.187	.735	-.538
0	114	-.333	.107	.122	-.840	0	164	-.306	.118	.752	-.062	0	214	-.066	.179	.571	-.725
0	115	-.089	.121	.407	-.494	0	165	-.043	.149	.586	-.322	0	215	-.323	.171	.303	-1.049
0	116	-.145	.136	.673	-.374	0	166	-.183	.141	.323	-.667	0	216	-.342	.143	.000	-1.181
0	117	-.203	.129	.695	-.160	0	167	-.496	.173	.047	-1.171	0	217	-.315	.107	.023	-.770
0	118	-.234	.122	.690	-.083	0	168	-.480	.163	-.048	-1.109	0	218	-.198	.090	.065	-.585
0	119	-.198	.122	.724	-.137	0	169	-.438	.159	.079	-1.067	0	219	-.140	.098	.192	-.531
0	120	-.213	.114	.661	-.139	0	170	-.352	.166	.173	-1.162	0	220	-.035	.108	.325	-.402
0	121	-.160	.112	.629	-.151	0	171	-.400	.148	.099	-1.081	0	221	.103	.107	.581	-.289
0	122	-.185	.110	.561	-.143	0	172	-.383	.152	.055	-1.122	0	222	.229	.096	.650	.009
0	123	-.074	.120	.301	-.487	0	173	-.445	.153	.050	-1.266	0	223	.340	.107	.771	.071
0	124	-.098	.114	.377	-.734	0	174	-.379	.141	.041	-1.049	0	224	.360	.110	.765	.093
0	125	-.396	.132	.017	-.983	0	175	-.445	.146	.103	-1.081	0	225	.371	.120	.850	.110
0	126	-.475	.128	.168	-.957	0	176	-.455	.145	-.078	-1.074	0	226	.385	.120	.840	.124
0	127	-.483	.143	.122	-1.109	0	177	-.406	.177	.138	-1.192	0	227	.367	.120	.800	.100
0	128	-.206	.198	.786	-.763	0	178	-.176	.164	.343	-.007	0	228	.360	.112	.811	.111
0	129	-.435	.170	.598	-1.103	0	179	-.073	.128	.477	-.540	0	229	.363	.116	.812	.119
0	130	-.405	.158	.295	-.900	0	180	-.221	.109	.707	-.115	0	230	.282	.109	.727	.027
0	131	-.431	.183	.016	-1.288	0	181	-.317	.116	.836	-.067	0	231	.153	.093	.558	-.057
0	132	-.313	.160	.037	-1.381	0	182	-.343	.115	.845	.113	0	232	-.021	.113	.402	-.375
0	133	-.513	.142	.108	-1.084	0	183	-.324	.111	.780	.078	0	233	-.213	.135	.192	-.712
0	134	-.542	.150	.127	-1.185	0	184	-.291	.102	.686	-.027	0	234	-.349	.146	.011	-.987
0	135	-.406	.147	.054	-1.029	0	185	-.161	.101	.639	-.129	0	235	-.368	.138	.021	-.976
0	136	-.043	.150	.473	-.560	0	186	-.003	.138	.626	-.587	0	236	-.284	.122	.050	-.867
0	137	-.234	.149	.790	-.383	0	187	-.230	.161	.299	-.910	0	237	-.075	.159	.625	-.570
0	138	-.338	.144	.825	-.106	0	188	-.470	.177	.018	-1.366	0	238	-.211	.083	-.025	-.890
0	139	-.423	.141	.900	-.012	0	189	-.303	.163	.113	-1.162	0	239	-.202	.064	-.009	-.574
0	140	-.427	.139	.928	-.039	0	190	-.398	.140	.020	-1.978	0	240	-.183	.068	-.025	-.702
0	141	-.353	.141	.876	-.031	0	191	-.342	.148	.210	-.896	0	241	-.395	.133	.025	-.912
0	142	-.375	.136	.872	-.002	0	192	-.093	.131	.504	-.594	0	301	-.542	.125	-.110	-1.040
0	143	-.304	.134	.747	-.106	0	193	-.213	.125	.312	-.682	0	302	-.561	.130	-.157	-.973
0	144	-.178	.137	.757	-.302	0	194	-.355	.147	.650	-.998	0	303	-.600	.210	-.078	-1.608
0	145	-.100	.148	.330	-.828	0	195	-.325	.120	.036	-.828	0	304	-.633	.158	-.132	-1.173
0	146	-.386	.153	.064	-1.063	0	196	-.291	.102	.005	-.745	0	305	-.617	.149	-.056	-1.265
0	147	-.540	.156	.106	-1.093	0	197	-.264	.102	.028	-.682	0	306	-.602	.205	-.010	-1.605
0	148	-.439	.141	.043	-.999	0	198	-.178	.113	.213	-.601	0	307	-.422	.126	-.032	-.979
0	149	-.359	.168	.510	-.990	0	199	-.073	.119	.308	-.472	0	308	-.449	.170	-.076	-1.405
0	150	-.400	.169	.202	-1.081	0	200	-.079	.099	.454	-.217	0	309	-.454	.167	-.081	-1.304

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
125	125	.440	.121	.139	-.062	15	173	-.466	.141	-.005	-1.044	15	225	.371	.133	.984	.088
126	126	.334	.134	.002	-1.130	15	176	-.368	.168	.261	-.933	15	226	.377	.130	.948	.120
127	127	.309	.140	.984	-1.127	15	177	-.239	.172	.433	-.847	15	227	.335	.119	.879	.089
128	128	.296	.124	.268	-.846	15	178	-.000	.160	.552	-.575	15	228	.334	.107	.778	.086
129	129	.327	.218	.617	-1.064	15	179	-.188	.130	.644	-.167	15	229	.337	.115	.778	.071
130	130	.440	.152	.440	-.959	15	180	-.277	.115	.735	-.002	15	230	.216	.095	.685	-.007
131	131	.262	.160	.217	-1.313	15	181	-.341	.119	.866	.037	15	231	.097	.078	.380	-.137
132	132	.000	.118	.195	-.933	15	182	-.342	.108	.719	.059	15	232	.086	.109	.215	-.636
133	133	.307	.116	.154	-.966	15	183	-.304	.100	.687	-.032	15	233	.086	.109	.144	-.620
134	134	.497	.140	.092	-.901	15	184	-.243	.092	.591	-.045	15	234	.234	.174	.136	-1.201
135	135	.440	.163	.434	-.620	15	185	-.078	.084	.375	.257	15	235	.234	.173	.174	-1.303
136	136	.440	.164	.791	-.234	15	186	-.133	.129	.278	.778	15	236	.157	.143	.213	-1.011
137	137	.440	.169	.896	-.060	15	187	-.305	.149	.121	-1.029	15	237	.112	.124	.463	-.890
138	138	.440	.138	.891	-.072	15	188	-.339	.181	.066	-1.281	15	238	.202	.077	.011	-.778
139	139	.440	.138	.896	-.072	15	189	-.307	.175	.160	-1.303	15	239	.192	.061	-.021	-.593
140	140	.440	.138	.896	-.072	15	190	-.220	.153	.305	-1.002	15	240	.185	.066	.011	-.525
141	141	.440	.138	.896	-.072	15	191	-.201	.155	.335	-1.125	15	241	.333	.118	.107	-.913
142	142	.440	.138	.896	-.072	15	192	-.033	.141	.712	-.516	15	301	.469	.104	-.120	-.879
143	143	.440	.138	.896	-.072	15	193	-.164	.139	.414	-.771	15	302	.562	.126	-.111	-.990
144	144	.440	.138	.896	-.072	15	194	-.316	.145	.305	-.842	15	303	.488	.214	-.233	-1.468
145	145	.440	.138	.896	-.072	15	195	-.288	.108	.034	-.746	15	304	.552	.134	-.101	-1.064
146	146	.440	.138	.896	-.072	15	196	-.262	.095	.016	-.651	15	305	.548	.130	-.179	-1.043
147	147	.440	.138	.896	-.072	15	197	-.184	.094	.097	-.532	15	306	.559	.141	-.152	-1.265
148	148	.440	.138	.896	-.072	15	198	-.071	.100	.292	-.489	15	307	.361	.114	-.017	-.853
149	149	.440	.138	.896	-.072	15	199	-.041	.101	.456	-.372	15	308	.293	.145	.020	-1.083
150	150	.440	.138	.896	-.072	15	200	-.166	.092	.596	-.134	15	309	.298	.144	.056	-1.185
151	151	.440	.138	.896	-.072	15	201	-.264	.102	.650	.039	15	310	.287	.134	.150	-.973
152	152	.440	.138	.896	-.072	15	202	-.360	.115	.792	.106	15	311	.254	.120	.281	-.809
153	153	.440	.138	.896	-.072	15	203	-.358	.115	.755	.091	15	312	.254	.120	.166	-.698
154	154	.440	.138	.896	-.072	15	204	-.329	.106	.703	.084	15	313	.188	.097	.110	-.720
155	155	.440	.138	.896	-.072	15	205	-.248	.092	.623	.030	15	314	.170	.081	.059	-.607
156	156	.440	.138	.896	-.072	15	206	-.085	.075	.446	-.183	15	315	.170	.069	.017	-.517
157	157	.440	.138	.896	-.072	15	207	-.119	.112	.278	-.625	15	316	.162	.061	-.005	-.457
158	158	.440	.138	.896	-.072	15	208	-.244	.147	.123	-1.097	15	317	.162	.060	.038	-.458
159	159	.440	.138	.896	-.072	15	209	-.284	.180	.067	-1.454	15	318	.169	.058	.061	-.423
160	160	.440	.138	.896	-.072	15	210	-.214	.168	.143	-1.274	15	319	.166	.055	.034	-.419
161	161	.440	.138	.896	-.072	15	211	-.185	.147	.119	-1.164	15	320	.169	.054	.015	-.420
162	162	.440	.138	.896	-.072	15	212	-.164	.150	.239	-1.160	15	321	.147	.052	.032	-.502
163	163	.440	.138	.896	-.072	15	213	-.096	.185	.905	-.465	15	322	.146	.059	.032	-.513
164	164	.440	.138	.896	-.072	15	214	-.028	.180	.733	-.525	15	323	.144	.055	.044	-.382
165	165	.440	.138	.896	-.072	15	215	-.270	.157	.393	-.972	15	324	.139	.065	.037	-.533
166	166	.440	.138	.896	-.072	15	216	-.286	.133	.000	-1.151	15	325	.192	.073	.022	-.654
167	167	.440	.138	.896	-.072	15	217	-.256	.111	.067	-.824	15	326	.324	.100	-.064	-.806
168	168	.440	.138	.896	-.072	15	218	-.123	.098	.183	-.550	15	327	.376	.099	-.098	-1.022
169	169	.440	.138	.896	-.072	15	219	-.045	.104	.358	-.424	15	328	.541	.154	-.177	-1.410
170	170	.440	.138	.896	-.072	15	220	-.062	.109	.507	-.275	15	329	.251	.119	-.010	-1.132
171	171	.440	.138	.896	-.072	15	221	-.190	.103	.595	-.079	15	330	.267	.134	.007	-1.319
172	172	.440	.138	.896	-.072	15	222	-.282	.101	.667	.045	15	331	.274	.130	.140	-1.284
173	173	.440	.138	.896	-.072	15	223	-.353	.113	.898	.078	15	332	.264	.115	.302	-.872
174	174	.440	.138	.896	-.072	15	224	-.361	.114	.817	.086	15	333	.219	.110	.181	-.718

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEARH	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEARH	CPRMS	CPMAX	CPMIN
13	440	-.390	.141	-.062	-1.043												
13	441	-.321	.129	-.233	-.882												
30	101	-.148	.033	-.071	-.331												
30	102	-.221	.081	-.009	-.372												
30	103	-.323	.086	-.021	-.803												
30	104	-.332	.086	-.007	-.689												
30	105	-.219	.035	-.043	-.472												
30	106	-.211	.099	-.134	-.692												
30	107	-.340	.097	-.108	-.744												
30	108	-.246	.211	-.979	-.318												
30	109	-.039	.215	-.762	-.681												
30	110	-.429	.124	-.272	-.882												
30	111	-.382	.086	-.120	-.740												
30	112	-.245	.085	-.059	-.546												
30	113	-.027	.118	-.375	-.430												
30	114	-.202	.141	-.638	-.277												
30	115	-.293	.143	-.777	-.101												
30	116	-.234	.131	-.753	-.064												
30	117	-.234	.123	-.728	-.119												
30	118	-.193	.103	-.573	-.131												
30	119	-.145	.093	-.551	-.127												
30	120	-.104	.087	-.572	-.169												
30	121	-.070	.082	-.394	-.169												
30	122	-.010	.074	-.282	-.225												
30	123	-.207	.092	-.087	-.596												
30	124	-.368	.100	-.104	-.791												
30	125	-.409	.120	-.112	-.940												
30	126	-.330	.118	-.023	-.896												
30	127	-.264	.109	-.002	-.971												
30	128	-.230	.104	-.096	-.767												
30	129	-.003	.214	-.850	-.665												
30	130	-.236	.171	-.610	-.781												
30	131	-.365	.118	-.061	-.834												
30	132	-.303	.090	-.002	-.683												
30	133	-.200	.109	-.109	-.598												
30	134	-.027	.139	-.481	-.483												
30	135	-.300	.157	-.735	-.210												
30	136	-.432	.153	-.871	-.012												
30	137	-.430	.139	-.926	-.021												
30	138	-.400	.141	-.836	-.021												
30	139	-.334	.114	-.740	-.012												
30	140	-.281	.106	-.708	-.028												
30	141	-.244	.106	-.586	-.114												
30	142	-.197	.098	-.547	-.092												
30	143	-.051	.083	-.379	-.236												
30	144	-.250	.122	-.118	-.758												
30	145	-.419	.124	-.128	-.895												
30	146	-.349	.123	-.096	-.089												
30	147	-.291	.113	-.026	-.1.086												
30	148	-.244	.103	-.026	-.906												

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAN	CPRHS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRHS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRHS	CPMAX	CPMIN
30	149	-.214	.094	.033	-.719	30	199	-.231	.092	.680	-.039	30	308	-.242	.101	.029	-.772
30	150	-.111	.149	.459	-.663	30	200	-.260	.093	.692	-.007	30	309	-.237	.115	.068	-.810
30	151	-.237	.121	.236	-.664	30	201	-.270	.094	.697	-.072	30	310	-.236	.114	.069	-.879
30	152	-.297	.160	.134	-.565	30	202	-.289	.099	.694	-.046	30	311	-.232	.110	.088	-.766
30	153	-.232	.094	.047	-.686	30	203	-.256	.098	.668	-.041	30	312	-.221	.103	.113	-.851
30	154	-.236	.119	.141	-.636	30	204	-.213	.090	.577	-.023	30	313	-.201	.086	.117	-.717
30	155	-.007	.142	.511	-.414	30	205	-.142	.075	.444	-.053	30	314	-.197	.074	.056	-.683
30	156	-.253	.155	.810	-.381	30	206	-.016	.066	.239	-.241	30	315	-.198	.068	.002	-.700
30	157	.412	.900	.000	-.000	30	207	-.220	.105	.083	-.730	30	316	-.205	.064	-.007	-.635
30	158	.435	.141	.863	.042	30	208	-.264	.133	.048	-.635	30	317	-.191	.063	.029	-.679
30	159	.419	.131	.843	.071	30	209	-.240	.129	.049	-.968	30	318	-.189	.054	.015	-.446
30	160	.366	.114	.850	.042	30	210	-.178	.117	.105	-.897	30	319	-.186	.049	.029	-.428
30	161	.322	.110	.800	.009	30	211	-.176	.106	.094	-.833	30	320	-.179	.053	.005	-.488
30	162	.268	.102	.718	.007	30	212	-.172	.107	.197	-.836	30	321	-.199	.083	.027	-.739
30	163	.184	.091	.575	.045	30	213	-.160	.134	.789	-.222	30	322	-.171	.051	-.017	-.404
30	164	.014	.086	.351	.222	30	214	-.092	.113	.633	-.230	30	323	-.174	.053	-.020	-.502
30	165	.140	.140	.108	.000	30	215	-.032	.108	.482	-.489	30	324	-.204	.067	-.029	-.549
30	166	.121	.121	.111	.000	30	216	-.039	.086	.152	-.584	30	325	-.268	.091	-.029	-.709
30	167	.119	.090	.111	.000	30	217	-.039	.072	.215	-.324	30	326	-.427	.108	-.054	-.791
30	168	.233	.111	.111	.000	30	218	-.109	.075	.487	-.143	30	327	-.342	.068	-.125	-.577
30	169	.211	.122	.100	-.113	30	219	-.187	.088	.608	-.030	30	328	-.319	.080	-.071	-.802
30	170	.093	.109	.111	.000	30	220	-.249	.093	.680	-.007	30	329	-.206	.078	-.037	-.824
30	171	.167	.145	.160	.000	30	221	-.292	.101	.757	-.035	30	330	-.210	.082	.061	-.877
30	172	.166	.130	.160	.000	30	222	-.319	.103	.715	-.016	30	331	-.220	.085	.064	-.829
30	173	.222	.096	.169	.000	30	223	-.310	.107	.709	.046	30	332	-.229	.087	.142	-.794
30	174	.206	.086	.142	.000	30	224	-.303	.107	.703	.044	30	333	-.209	.086	.020	-.697
30	175	.181	.108	.177	.000	30	225	-.303	.103	.667	.060	30	334	-.204	.079	.027	-.625
30	176	.058	.127	.468	.000	30	226	-.300	.099	.619	.066	30	335	-.203	.074	.015	-.675
30	177	.205	.150	.736	.000	30	227	-.237	.089	.521	.030	30	336	-.205	.066	.010	-.561
30	178	.296	.132	.740	.000	30	228	-.225	.092	.585	.014	30	337	-.185	.053	-.037	-.445
30	179	.296	.115	.758	.000	30	229	-.219	.098	.590	.002	30	338	-.187	.059	.002	-.541
30	180	.291	.107	.749	.016	30	230	-.109	.073	.366	-.110	30	339	-.181	.045	-.007	-.409
30	181	.278	.094	.616	.046	30	231	-.018	.073	.301	-.273	30	340	-.183	.045	-.039	-.432
30	182	.246	.085	.558	.046	30	232	-.194	.111	.114	-.746	30	341	-.176	.045	-.034	-.479
30	183	.190	.079	.468	.011	30	233	-.274	.137	.048	-.088	30	342	-.184	.048	-.037	-.563
30	184	.118	.074	.467	.078	30	234	-.247	.147	.066	-.209	30	343	-.172	.044	-.012	-.350
30	185	.053	.078	.338	.331	30	235	-.191	.121	.130	-.951	30	344	-.177	.046	.017	-.360
30	186	.277	.134	.162	.874	30	236	-.149	.105	.139	-.922	30	345	-.173	.055	-.032	-.433
30	187	.028	.157	.028	-.010	30	237	-.142	.098	.342	-.792	30	346	-.212	.075	-.020	-.742
30	188	.284	.151	.041	-.133	30	238	-.201	.066	.082	-.490	30	347	-.423	.123	-.069	-.984
30	189	.232	.125	.109	-.914	30	239	-.203	.060	.000	-.442	30	348	-.408	.090	-.147	-.718
30	190	.184	.116	.130	-.824	30	240	-.255	.073	-.034	-.378	30	349	-.232	.081	.076	-.497
30	191	.188	.108	.096	-.081	30	241	-.129	.101	-.223	-.475	30	350	-.201	.083	.007	-.656
30	192	.043	.100	.311	-.309	30	301	-.395	.098	-.056	-.800	30	351	-.205	.084	.039	-.643
30	193	.023	.088	.310	-.345	30	302	-.537	.122	-.076	-.1075	30	352	-.225	.089	.069	-.704
30	194	.084	.084	.189	-.398	30	303	-.375	.167	.130	-.118	30	353	-.222	.103	.056	-.910
30	195	.103	.063	.119	-.406	30	304	-.460	.125	-.071	-.1084	30	354	-.217	.097	.010	-.835
30	196	.082	.064	.147	-.321	30	305	-.303	.114	-.130	-.917	30	355	-.219	.093	-.029	-.812
30	197	.043	.064	.303	-.208	30	306	-.534	.112	-.176	-.972	30	356	-.217	.088	-.036	-.789
30	198	.168	.086	.337	-.086	30	307	-.334	.104	.042	-.668	30	357	-.181	.062	.000	-.553

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	179	.056	.017	.465	.330	409	.377	.116	.109	.876	45	123	.310	.073	.076	.618	
330	194	.041	.010	.460	330	410	.433	.120	.111	.928	45	124	.374	.093	.076	.837	
330	191	.034	.047	.341	330	411	.387	.106	.099	.864	45	125	.339	.103	.075	1.034	
330	199	.038	.034	.404	330	412	.085	.061	.108	.310	45	126	.260	.089	.057	.691	
330	197	.041	.033	.406	330	413	.163	.100	.087	-1.019	45	127	.232	.075	.002	.604	
330	192	.046	.078	.413	330	414	.163	.102	.087	-1.034	45	128	.221	.067	.007	.542	
330	182	.050	.000	.419	330	415	.163	.108	.092	.132	45	129	.346	.197	1.127	.376	
330	177	.050	.000	.413	330	416	.164	.104	.125	-1.090	45	130	.215	.215	1.069	.433	
330	177	.050	.000	.413	330	417	.172	.102	.118	.086	45	131	.111	.172	.681	.678	
330	193	.050	.000	.413	330	418	.161	.093	.043	.853	45	132	.109	.092	.203	.496	
330	193	.050	.000	.413	330	419	.163	.091	.060	.760	45	133	.071	.126	.491	.328	
330	193	.050	.000	.413	330	420	.148	.077	.039	.573	45	134	.331	.148	.793	.157	
330	193	.050	.000	.413	330	421	.118	.061	.054	.322	45	135	.473	.150	.943	.005	
330	193	.050	.000	.413	330	422	.194	.055	.250	.382	45	136	.433	.136	.890	.002	
330	193	.050	.000	.413	330	423	.107	.052	.181	.323	45	137	.281	.120	.667	.181	
330	193	.050	.000	.413	330	424	.112	.074	.159	.391	45	138	.260	.098	.581	.016	
330	193	.050	.000	.413	330	425	.162	.051	.014	.378	45	139	.217	.087	.504	.107	
330	193	.050	.000	.413	330	426	.203	.064	.010	.451	45	140	.169	.078	.441	.072	
330	193	.050	.000	.413	330	427	.230	.071	.012	.490	45	141	.126	.073	.424	.118	
330	193	.050	.000	.413	330	428	.271	.079	.034	.586	45	142	.074	.067	.343	.107	
330	193	.050	.000	.413	330	429	.350	.098	.084	.732	45	143	.069	.059	.136	.330	
330	193	.050	.000	.413	330	430	.391	.109	.065	.852	45	144	.365	.099	.052	.833	
330	193	.050	.000	.413	330	431	.339	.097	.031	.728	45	145	.396	.113	.140	.822	
330	193	.050	.000	.413	330	432	.077	.072	.152	.613	45	146	.321	.096	.069	.836	
330	193	.050	.000	.413	330	433	.249	.212	.455	.806	45	147	.242	.074	.036	.659	
330	193	.050	.000	.413	330	434	.458	.150	.154	.900	45	148	.220	.064	.019	.503	
330	193	.050	.000	.413	330	435	.423	.128	.087	.998	45	149	.211	.059	.005	.564	
330	193	.050	.000	.413	330	436	.285	.108	.046	.780	45	150	.132	.166	.836	.386	
330	193	.050	.000	.413	330	437	.219	.085	.000	.595	45	151	.019	.154	.635	.494	
330	193	.050	.000	.413	330	438	.226	.067	.050	.567	45	152	.079	.115	.396	.472	
330	193	.050	.000	.413	330	439	.392	.088	.067	.716	45	153	.049	.108	.342	.460	
330	193	.050	.000	.413	330	440	.423	.110	.076	.818	45	154	.043	.137	.502	.436	
330	193	.050	.000	.413	330	441	.280	.067	.036	.622	45	155	.300	.154	.752	.167	
330	193	.050	.000	.413	330	442	.229	.088	.071	.657	45	156	.439	.151	.923	.041	
330	193	.050	.000	.413	330	443	.659	.182	.198	-1.378	45	157	.414	.136	.855	.065	
330	193	.050	.000	.413	330	444	.351	.164	.980	.193	45	158	.321	.124	.781	.050	
330	193	.050	.000	.413	330	445	.256	.172	.781	.320	45	159	.302	.110	.659	.031	
330	193	.050	.000	.413	330	446	.060	.255	.772	.707	45	160	.247	.089	.556	.057	
330	193	.050	.000	.413	330	447	.305	.083	.062	.635	45	161	.205	.076	.467	.012	
330	193	.050	.000	.413	330	448	.014	.113	.372	.408	45	162	.152	.067	.376	.024	
330	193	.050	.000	.413	330	449	.207	.139	.631	.234	45	163	.071	.058	.265	.076	
330	193	.050	.000	.413	330	450	.331	.141	.781	.088	45	164	.102	.057	.100	.351	
330	193	.050	.000	.413	330	451	.281	.124	.652	.155	45	165	.368	.107	.065	.959	
330	193	.050	.000	.413	330	452	.152	.108	.465	.236	45	166	.300	.083	.110	.712	
330	193	.050	.000	.413	330	453	.117	.138	.099	.159	45	167	.271	.090	.012	.731	
330	193	.050	.000	.413	330	454	.111	.081	.405	.210	45	168	.229	.074	.014	.709	
330	193	.050	.000	.413	330	455	.070	.073	.358	.198	45	169	.218	.068	.000	.663	
330	193	.050	.000	.413	330	456	.023	.067	.313	.224	45	170	.207	.054	.036	.493	
330	193	.050	.000	.413	330	457	.011	.062	.246	.181	45	171	.053	.163	.685	.449	
330	193	.050	.000	.413	330	458	.077	.055	.176	.255	45	172	.039	.149	.587	.520	

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	CPHMS	CPHIN	WD	TAP	CPHEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPHEAN	CPRMS	CPHAX	CPHIN
1717	1133	1133	45	2223	231	079	557	069	45	332	229	055	050	0524
1717	1133	1133	45	2224	215	079	535	058	45	333	211	053	007	0513
1717	1133	1133	45	2225	201	070	544	051	45	334	206	048	040	0520
1717	1133	1133	45	2226	190	067	511	044	45	335	209	045	050	0494
1717	1133	1133	45	2227	142	056	422	014	45	336	218	046	082	0532
1717	1133	1133	45	2228	118	055	392	011	45	337	218	051	032	0486
1717	1133	1133	45	2229	112	055	404	014	45	338	207	053	046	0575
1717	1133	1133	45	2230	112	043	293	124	45	339	221	063	002	0667
1717	1133	1133	45	2231	069	044	060	356	45	340	246	084	027	0780
1717	1133	1133	45	2232	069	080	037	804	45	341	266	093	017	0731
1717	1133	1133	45	2233	069	100	048	938	45	342	270	089	025	0810
1717	1133	1133	45	2234	069	087	018	864	45	343	258	081	047	0776
1717	1133	1133	45	2235	161	074	076	707	45	344	275	085	017	0743
1717	1133	1133	45	2236	155	068	039	541	45	345	251	103	072	0756
1717	1133	1133	45	2237	161	071	009	633	45	346	282	131	022	0814
1717	1133	1133	45	2238	161	056	069	493	45	347	247	140	251	0877
1717	1133	1133	45	2239	161	051	055	434	45	348	260	098	015	0839
1717	1133	1133	45	2240	373	099	103	834	45	349	202	103	268	0899
1717	1133	1133	45	2241	301	123	479	651	45	350	200	053	042	0473
1717	1133	1133	45	2242	302	097	035	927	45	351	206	052	052	0479
1717	1133	1133	45	2243	301	124	188	621	45	352	216	052	052	0587
1717	1133	1133	45	2244	303	118	119	838	45	353	207	052	074	0639
1717	1133	1133	45	2245	304	099	052	820	45	354	207	046	059	0463
1717	1133	1133	45	2246	305	104	045	909	45	355	203	039	077	0397
1717	1133	1133	45	2247	306	128	181	138	45	356	213	039	092	0428
1717	1133	1133	45	2248	307	094	005	712	45	357	211	041	082	0416
1717	1133	1133	45	2249	308	065	012	636	45	358	225	044	102	0501
1717	1133	1133	45	2250	309	071	005	914	45	359	230	043	102	0432
1717	1133	1133	45	2251	310	068	032	711	45	360	258	051	080	0519
1717	1133	1133	45	2252	311	069	025	623	45	361	291	061	126	0560
1717	1133	1133	45	2253	312	065	035	609	45	362	330	077	129	0729
1717	1133	1133	45	2254	313	060	000	563	45	363	348	083	052	0764
1717	1133	1133	45	2255	314	056	032	516	45	364	339	085	080	0830
1717	1133	1133	45	2256	315	055	055	558	45	365	329	083	017	0811
1717	1133	1133	45	2257	316	056	060	529	45	366	330	091	087	0808
1717	1133	1133	45	2258	317	056	049	378	45	367	335	120	127	0866
1717	1133	1133	45	2259	318	066	151	612	45	368	368	139	316	0865
1717	1133	1133	45	2260	319	088	186	012	45	369	301	123	092	0897
1717	1133	1133	45	2261	320	142	109	437	45	370	030	106	342	0357
1717	1133	1133	45	2262	321	114	027	085	45	371	188	060	007	0643
1717	1133	1133	45	2263	322	100	005	803	45	372	192	061	025	0644
1717	1133	1133	45	2264	323	104	025	1094	45	373	193	064	000	0649
1717	1133	1133	45	2265	324	113	017	940	45	374	197	066	002	0731
1717	1133	1133	45	2266	325	136	047	160	45	375	197	062	027	0620
1717	1133	1133	45	2267	326	113	218	895	45	376	194	053	062	0512
1717	1133	1133	45	2268	327	082	057	533	45	377	179	043	041	0555
1717	1133	1133	45	2269	328	081	102	547	45	378	183	039	066	0325
1717	1133	1133	45	2270	329	052	040	466	45	379	188	040	068	0350
1717	1133	1133	45	2271	330	053	037	473	45	380	191	041	051	0396
1717	1133	1133	45	2272	331	053	032	496	45	381	207	047	075	0428

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	197	.176	.072	.478	-.021	60	330	.150	.184	-.184	-1.283	60	356	-.239	.068	-.081	-.655
60	198	.183	.063	.455	-.023	60	331	.072	-.054	-.054	-.563	60	357	-.252	.076	-.051	-.675
60	199	.145	.064	.440	-.151	60	332	.222	.049	-.052	-.501	60	358	-.238	.072	-.025	-.574
60	200	.103	.063	.413	-.178	60	333	.000	.044	-.049	-.536	60	359	-.195	.058	-.010	-.482
60	201	.103	.054	.367	-.057	60	334	.000	.044	-.051	-.573	60	360	-.193	.065	-.056	-.493
60	202	.103	.044	.297	-.000	60	335	.000	.044	-.053	-.580	60	361	-.252	.082	-.012	-.545
60	203	.077	.038	.206	-.016	60	336	.000	.070	-.059	-.637	60	362	-.350	.110	-.051	-.785
60	204	.038	.033	.139	-.066	60	337	.000	.084	-.068	-.600	60	363	-.463	.132	-.024	-.803
60	205	.033	.026	.087	-.082	60	338	.000	.084	-.060	-.746	60	364	-.539	.160	-.150	-.812
60	206	.033	.029	.014	-.014	60	339	.000	.086	-.049	-.615	60	365	-.600	.189	-.203	-.811
60	207	.203	.058	.064	-.522	60	340	.000	.089	-.037	-.621	60	366	-.904	.266	-.243	-.729
60	208	.166	.050	.044	-.453	60	341	.000	.088	-.017	-.657	60	367	-1.131	.305	-.340	-.207
60	209	.149	.051	.021	-.537	60	342	.000	.089	-.088	-.620	60	368	-.940	.222	-.383	-.679
60	210	.136	.046	.007	-.459	60	343	.000	.110	-.032	-.921	60	369	-.382	.151	-.068	-.917
60	211	.132	.046	.030	-.666	60	344	.000	.134	-.039	-1.014	60	370	-.170	.129	-.640	-.164
60	212	.143	.039	-.055	-.395	60	345	.000	.118	-.051	-.986	60	371	-.162	.038	-.047	-.357
60	213	.158	.076	.473	-.080	60	346	.000	.119	-.184	-.951	60	372	-.164	.037	-.056	-.353
60	214	.137	.074	.477	-.064	60	347	.000	.156	-.203	-1.268	60	373	-.166	.036	-.076	-.357
60	215	.131	.074	.463	-.064	60	348	.000	.157	-.329	-1.321	60	374	-.170	.036	-.076	-.348
60	216	.105	.082	.422	-.136	60	349	.000	.150	-.374	-1.260	60	375	-.171	.034	-.078	-.394
60	217	.126	.089	.475	-.117	60	350	.000	.111	-.177	-1.030	60	376	-.170	.034	-.081	-.471
60	218	.193	.085	.539	-.009	60	351	.000	.105	-.230	-.458	60	377	-.157	.038	-.046	-.347
60	219	.206	.073	.499	.039	60	352	.000	.091	-.238	-.366	60	378	-.164	.044	-.041	-.366
60	220	.170	.069	.496	.002	60	353	.000	.204	-.043	-.068	60	379	-.166	.049	-.012	-.396
60	221	.134	.067	.443	.074	60	354	.000	.202	-.042	-.392	60	380	-.158	.050	-.032	-.405
60	222	.147	.063	.436	.046	60	355	.000	.208	-.042	-.073	60	381	-.137	.050	-.046	-.357
60	223	.127	.052	.344	.002	60	356	.000	.211	-.043	-.064	60	382	-.159	.055	-.036	-.441
60	224	.110	.050	.309	-.012	60	357	.000	.270	-.083	-.081	60	383	-.250	.081	-.010	-.647
60	225	.102	.049	.365	.009	60	358	.000	.298	-.108	-.049	60	384	-.391	.112	-.121	-.1067
60	226	.091	.046	.331	-.018	60	359	.000	.311	-.098	-.044	60	385	-.589	.134	-.211	-.1168
60	227	.057	.038	.284	-.034	60	360	.000	.350	-.102	-.079	60	386	-.738	.191	-.296	-.1581
60	228	.033	.035	.282	-.053	60	361	.000	.394	-.126	-.005	60	387	-.968	.214	-.428	-.1754
60	229	.025	.035	.259	-.066	60	362	.000	.313	-.103	-.032	60	388	-1.142	.245	-.567	-.1959
60	230	.029	.030	.141	-.153	60	363	.000	.325	-.101	-.056	60	389	-.859	.223	-.284	-.1738
60	231	.033	.029	.003	-.207	60	364	.000	.333	-.109	-.002	60	390	-.441	.170	-.158	-.1101
60	232	.199	.053	.496	-.087	60	365	.000	.318	-.100	-.000	60	391	-.103	.107	-.316	-.199
60	233	.161	.052	.488	-.055	60	366	.000	.395	-.096	-.078	60	392	-.141	.037	-.034	-.364
60	234	.151	.044	.420	-.420	60	367	.000	.587	-.159	-1.202	60	393	-.132	.035	-.024	-.299
60	235	.138	.043	.406	-.406	60	368	.000	.707	-.207	-1.399	60	394	-.146	.034	-.039	-.320
60	236	.134	.041	.418	-.418	60	369	.000	.911	-.189	-1.455	60	395	-.153	.036	-.049	-.387
60	237	.135	.035	.444	-.044	60	370	.000	.084	-.108	-1.692	60	396	-.150	.034	-.051	-.378
60	238	.233	.051	.468	-.067	60	371	.000	.158	-.198	-1.452	60	397	-.131	.030	-.015	-.299
60	239	.233	.038	.473	-.473	60	372	.000	.142	-.235	-.837	60	398	-.131	.028	-.032	-.259
60	240	.233	.038	.473	-.473	60	373	.000	.169	-.244	-.824	60	399	-.133	.026	-.039	-.241
60	241	.233	.038	.473	-.473	60	374	.000	.134	-.043	-.434	60	400	-.128	.027	-.015	-.235
60	242	.247	.077	.527	-.754	60	375	.000	.157	-.069	-.443	60	401	-.106	.032	-.083	-.238
60	302	.586	.126	.029	-.098	60	376	.000	.206	-.044	-.434	60	402	-.107	.032	-.022	-.257
60	303	.199	.094	.357	-.383	60	377	.000	.204	-.044	-.465	60	404	-.053	.053	-.182	-.259
60	304	.299	.076	.029	-.597	60	378	.000	.211	-.049	-.456	60	405	-.119	.040	-.036	-.379
60	305	.400	.097	.049	-.768	60	379	.000	.222	-.058	-.509	60	406	-.283	.056	-.099	-.529

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

UD	TAP	CP	CP	CP	CP	UD	TAP	CP	CP	CP	UD	TAP	CP	CP	CP	UD	TAP	CP	CP	CP
75	407					75	121				75	171				75	171			
60	408					75	122				75	172				75	172			
60	409					75	123				75	173				75	173			
60	410					75	124				75	174				75	174			
60	411					75	125				75	175				75	175			
60	412					75	126				75	176				75	176			
60	413					75	127				75	177				75	177			
60	414					75	128				75	178				75	178			
60	415					75	129				75	179				75	179			
60	416					75	130				75	180				75	180			
60	417					75	131				75	181				75	181			
60	418					75	132				75	182				75	182			
60	419					75	133				75	183				75	183			
60	420					75	134				75	184				75	184			
60	421					75	135				75	185				75	185			
60	422					75	136				75	186				75	186			
60	423					75	137				75	187				75	187			
60	427					75	138				75	188				75	188			
60	430					75	139				75	189				75	189			
60	431					75	140				75	190				75	190			
60	432					75	141				75	191				75	191			
60	433					75	142				75	192				75	192			
60	434					75	143				75	193				75	193			
60	435					75	144				75	194				75	194			
60	437					75	145				75	195				75	195			
60	438					75	146				75	196				75	196			
60	439					75	147				75	197				75	197			
60	440					75	148				75	198				75	198			
60	441					75	149				75	199				75	199			
75	101					75	150				75	200				75	200			
75	102					75	151				75	201				75	201			
75	103					75	152				75	202				75	202			
75	104					75	153				75	203				75	203			
75	105					75	154				75	204				75	204			
75	106					75	155				75	205				75	205			
75	107					75	156				75	206				75	206			
75	108					75	157				75	207				75	207			
75	109					75	158				75	208				75	208			
75	110					75	159				75	209				75	209			
75	111					75	160				75	210				75	210			
75	112					75	161				75	211				75	211			
75	113					75	162				75	212				75	212			
75	114					75	163				75	213				75	213			
75	115					75	164				75	214				75	214			
75	116					75	165				75	215				75	215			
75	117					75	166				75	216				75	216			
75	118					75	167				75	217				75	217			
75	119					75	168				75	218				75	218			
75	120					75	169				75	219				75	219			
75	120					75	170				75	220				75	220			

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
75	221	.038	.067	.198	.335	75	330	.186	.030	.082	.297	75	380	.165	.050	.010	.377
75	222	.023	.052	.169	.220	75	331	.189	.029	.094	.324	75	381	.119	.038	.027	.267
75	223	.000	.031	.129	.102	75	332	.191	.029	.089	.304	75	382	.118	.032	.007	.273
75	224	.015	.029	.132	.098	75	333	.205	.046	.091	.427	75	383	.142	.031	.053	.295
75	225	.008	.038	.145	.155	75	334	.217	.054	.062	.518	75	384	.212	.046	.104	.548
75	226	.017	.038	.123	.123	75	335	.256	.069	.089	.582	75	385	.576	.157	.241	-1.484
75	227	.037	.038	.079	.123	75	336	.353	.102	.126	.694	75	386	.710	.160	.356	-1.403
75	228	.047	.038	.051	.141	75	337	.416	.102	.148	.785	75	387	.792	.183	.358	-1.560
75	229	.057	.024	.058	.166	75	338	.370	.065	.111	.626	75	388	.739	.208	.142	-1.613
75	230	.096	.023	.019	.209	75	339	.197	.053	.077	.569	75	389	.332	.172	.241	-1.031
75	231	.123	.026	.044	.296	75	340	.182	.047	.079	.536	75	390	.005	.155	.585	.663
75	232	.206	.049	.088	.441	75	341	.195	.047	.067	.420	75	391	.270	.118	.774	.036
75	233	.158	.038	.072	.331	75	342	.280	.065	.109	.572	75	392	.137	.027	.041	.251
75	234	.149	.032	.053	.332	75	343	.802	.176	.317	-1.373	75	393	.130	.026	.043	.284
75	235	.132	.033	.035	.360	75	344	.854	.167	.440	-1.373	75	394	.141	.026	.060	.285
75	236	.135	.032	.035	.360	75	345	.848	.164	.462	-1.437	75	395	.144	.026	.065	.305
75	237	.136	.027	.067	.303	75	346	.783	.169	.307	-1.318	75	396	.145	.025	.063	.307
75	238	.197	.036	.060	.316	75	347	.314	.129	.141	.737	75	397	.139	.024	.034	.229
75	239	.204	.049	.042	.376	75	348	.182	.152	.652	.489	75	398	.144	.024	.044	.237
75	240	.392	.097	.115	.742	75	349	.410	.147	.901	.037	75	399	.143	.024	.036	.235
75	241	.260	.243	.350	.834	75	350	.184	.033	.087	.397	75	400	.139	.027	.014	.244
75	301	.153	.031	.003	.321	75	351	.183	.032	.084	.379	75	401	.120	.029	.000	.238
75	302	.461	.143	.023	.227	75	352	.190	.033	.099	.366	75	402	.128	.028	.015	.244
75	303	.053	.082	.351	.237	75	353	.187	.035	.084	.323	75	404	.040	.035	.333	.181
75	304	.185	.045	.044	.368	75	354	.210	.053	.079	.493	75	405	.043	.037	.087	.173
75	305	.140	.074	.039	.484	75	355	.227	.060	.079	.532	75	406	.229	.058	.031	.469
75	306	.535	.097	.238	.862	75	356	.247	.061	.089	.524	75	407	.346	.082	.157	.670
75	307	.196	.038	.089	.361	75	357	.307	.084	.104	.768	75	408	.394	.097	.174	.785
75	308	.155	.033	.093	.383	75	358	.365	.092	.161	.870	75	409	.389	.098	.130	.800
75	309	.182	.033	.086	.323	75	359	.269	.053	.126	.564	75	410	.277	.086	.027	.629
75	310	.185	.034	.087	.349	75	360	.185	.034	.042	.366	75	411	.133	.079	.210	.450
75	311	.188	.034	.087	.314	75	361	.172	.039	.037	.378	75	412	.180	.071	.522	.024
75	312	.227	.045	.099	.449	75	362	.212	.055	.020	.577	75	413	.130	.025	.027	.236
75	313	.221	.032	.086	.496	75	363	.349	.119	.106	.931	75	414	.136	.025	.053	.252
75	314	.270	.082	.084	.711	75	364	.802	.176	.380	-1.430	75	415	.141	.024	.063	.237
75	315	.369	.118	.104	.844	75	365	.849	.164	.346	-1.377	75	416	.145	.024	.072	.261
75	316	.405	.110	.163	.857	75	366	.947	.185	.387	-1.551	75	417	.137	.024	.051	.244
75	317	.308	.083	.109	.623	75	367	.921	.210	.235	-1.552	75	418	.143	.022	.073	.232
75	318	.238	.076	.069	.543	75	368	.434	.171	.161	-1.003	75	419	.145	.022	.073	.252
75	319	.216	.073	.039	.382	75	369	.043	.179	.676	.679	75	420	.143	.022	.041	.249
75	320	.212	.069	.047	.541	75	370	.419	.145	.989	.050	75	421	.132	.024	.053	.236
75	321	.294	.084	.067	.773	75	371	.164	.030	.054	.302	75	422	.132	.026	.029	.230
75	322	.810	.135	.208	.118	75	372	.166	.029	.064	.299	75	423	.138	.027	.051	.264
75	323	.841	.160	.349	.446	75	373	.160	.028	.067	.294	75	427	.065	.069	.498	.145
75	324	.746	.135	.396	.193	75	374	.166	.028	.089	.273	75	430	.028	.039	.171	.171
75	325	.617	.123	.173	.017	75	375	.170	.030	.077	.307	75	431	.171	.045	.034	.354
75	326	.246	.097	.141	.620	75	376	.173	.039	.069	.390	75	432	.273	.064	.102	.600
75	327	.155	.116	.330	.210	75	377	.159	.044	.017	.414	75	433	.300	.079	.090	.687
75	328	.153	.110	.341	.155	75	378	.177	.050	.044	.435	75	434	.283	.097	.002	.724
75	329	.186	.029	.094	.289	75	379	.184	.058	.046	.472	75	435	.170	.089	.186	.537

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN
90	145	.238	.073	.093	.571	90	195	.198	.072	.492	.023	90	195	.198	.072	.492	.023
90	146	.178	.045	.045	.371	90	196	.041	.075	.318	.285	90	196	.041	.075	.318	.285
90	147	.172	.037	.062	.379	90	197	.069	.080	.214	.368	90	197	.069	.080	.214	.368
90	148	.176	.033	.083	.295	90	198	.207	.105	.104	.644	90	198	.207	.105	.104	.644
90	149	.169	.032	.072	.294	90	199	.332	.113	.053	.875	90	199	.332	.113	.053	.875
90	150	.433	.143	.907	.105	90	200	.330	.095	.118	.793	90	200	.330	.095	.118	.793
90	151	.439	.143	.898	.124	90	201	.237	.064	.032	.513	90	201	.237	.064	.032	.513
90	152	.437	.142	.897	.121	90	202	.118	.030	.000	.249	90	202	.118	.030	.000	.249
90	153	.436	.142	.938	.048	90	203	.107	.025	.016	.228	90	203	.107	.025	.016	.228
90	154	.251	.150	.635	.328	90	204	.114	.022	.044	.232	90	204	.114	.022	.044	.232
90	155	.057	.145	.395	.631	90	205	.110	.021	.032	.191	90	205	.110	.021	.032	.191
90	156	.490	.197	.010	-1.266	90	206	.147	.030	.058	.293	90	206	.147	.030	.058	.293
90	157	.833	.221	.248	-1.580	90	207	.187	.048	.074	.448	90	207	.187	.048	.074	.448
90	158	.785	.174	.374	-1.385	90	208	.150	.036	.032	.366	90	208	.150	.036	.032	.366
90	159	.709	.189	.279	-1.381	90	209	.117	.030	.028	.232	90	209	.117	.030	.028	.232
90	160	.237	.053	.102	-.616	90	210	.117	.029	.030	.245	90	210	.117	.029	.030	.245
90	161	.161	.029	.064	-.286	90	211	.122	.030	.042	.256	90	211	.122	.030	.042	.256
90	162	.139	.025	.057	-.231	90	212	.123	.024	.046	.230	90	212	.123	.024	.046	.230
90	163	.142	.025	.067	-.241	90	213	.233	.093	.799	.012	90	213	.233	.093	.799	.012
90	164	.176	.038	.079	-.352	90	214	.237	.093	.782	.042	90	214	.237	.093	.782	.042
90	165	.272	.071	.093	-.328	90	215	.245	.097	.759	.048	90	215	.245	.097	.759	.048
90	166	.190	.022	.126	-.262	90	216	.230	.092	.726	.042	90	216	.230	.092	.726	.042
90	167	.159	.038	.043	-.317	90	217	.102	.076	.463	.147	90	217	.102	.076	.463	.147
90	168	.158	.033	.052	-.324	90	218	.021	.077	.300	.254	90	218	.021	.077	.300	.254
90	169	.159	.033	.048	-.313	90	219	.105	.085	.173	.429	90	219	.105	.085	.173	.429
90	170	.135	.029	.038	-.252	90	220	.245	.092	.007	.645	90	220	.245	.092	.007	.645
90	171	.326	.129	.822	.026	90	221	.246	.073	.071	.626	90	221	.246	.073	.071	.626
90	172	.328	.131	.804	.024	90	222	.183	.052	.025	.462	90	222	.183	.052	.025	.462
90	173	.328	.119	.848	.005	90	223	.103	.028	.021	.217	90	223	.103	.028	.021	.217
90	174	.331	.120	.866	.000	90	224	.109	.026	.007	.218	90	224	.109	.026	.007	.218
90	175	.170	.143	.693	.448	90	225	.096	.023	.007	.186	90	225	.096	.023	.007	.186
90	176	.066	.137	.426	-.600	90	226	.097	.024	.021	.180	90	226	.097	.024	.021	.180
90	177	.384	.172	.048	.985	90	227	.099	.021	.023	.166	90	227	.099	.021	.023	.166
90	178	.653	.208	.143	-1.530	90	228	.102	.021	.030	.187	90	228	.102	.021	.030	.187
90	179	.608	.167	.228	-1.311	90	229	.117	.024	.032	.196	90	229	.117	.024	.032	.196
90	180	.519	.162	.172	-1.167	90	230	.130	.021	.063	.211	90	230	.130	.021	.063	.211
90	181	.185	.042	.078	-.343	90	231	.137	.028	.062	.258	90	231	.137	.028	.062	.258
90	182	.143	.029	.055	-.242	90	232	.187	.048	.076	.388	90	232	.187	.048	.076	.388
90	183	.129	.025	.051	-.222	90	233	.144	.035	.058	.305	90	233	.144	.035	.058	.305
90	184	.137	.022	.058	-.230	90	234	.129	.029	.042	.295	90	234	.129	.029	.042	.295
90	185	.169	.024	.060	-.257	90	235	.111	.028	.023	.232	90	235	.111	.028	.023	.232
90	186	.233	.064	.074	-.498	90	236	.117	.028	.030	.233	90	236	.117	.028	.030	.233
90	187	.167	.045	.055	-.372	90	237	.112	.023	.028	.196	90	237	.112	.023	.028	.196
90	188	.143	.037	.046	-.366	90	238	.118	.024	.028	.230	90	238	.118	.024	.028	.230
90	189	.125	.032	.025	-.262	90	239	.089	.029	.018	.216	90	239	.089	.029	.018	.216
90	190	.126	.028	.028	-.238	90	240	.170	.075	.042	.510	90	240	.170	.075	.042	.510
90	191	.123	.026	.035	-.242	90	241	.130	.030	.254	.842	90	241	.130	.030	.254	.842
90	192	.201	.080	.529	.026	90	301	.103	.026	.027	.206	90	301	.103	.026	.027	.206
90	193	.201	.069	.470	.037	90	302	.450	.121	.052	-1.103	90	302	.450	.121	.052	-1.103
90	194	.198	.070	.485	.035	90	303	.024	.052	.207	.155	90	303	.024	.052	.207	.155

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	304	.114	.024	.025	.214	90	354	.160	.033	.059	.417	90	405	.020	.036	.116	.155
90	305	.073	.045	.069	.292	90	355	.167	.037	.062	.444	90	406	.097	.041	.041	.272
90	306	.436	.083	.180	.733	90	356	.169	.039	.057	.414	90	407	.132	.052	.012	.381
90	307	.143	.022	.072	.234	90	357	.177	.041	.064	.366	90	408	.113	.060	.056	.404
90	308	.179	.031	.081	.296	90	358	.232	.053	.096	.451	90	409	.053	.058	.141	.310
90	309	.176	.032	.084	.346	90	359	.206	.034	.084	.333	90	410	.033	.052	.240	.175
90	310	.178	.032	.084	.355	90	360	.148	.022	.042	.219	90	411	.110	.062	.368	.230
90	311	.184	.032	.091	.377	90	361	.127	.024	.027	.226	90	412	.184	.073	.484	.005
90	312	.195	.036	.091	.382	90	362	.131	.026	.017	.234	90	413	.112	.026	.010	.211
90	313	.186	.036	.074	.334	90	363	.160	.035	.012	.271	90	414	.117	.023	.015	.219
90	314	.201	.051	.076	.454	90	364	.498	.190	.191	.983	90	415	.116	.025	.032	.221
90	315	.229	.055	.091	.476	90	365	.573	.323	.118	1.039	90	416	.122	.025	.034	.237
90	316	.271	.039	.118	.493	90	366	.163	.163	.118	.120	90	417	.122	.027	.063	.235
90	317	.180	.038	.099	.438	90	367	.167	.157	.146	.37	90	418	.126	.023	.015	.258
90	318	.121	.021	.023	.274	90	368	.133	.146	.381	.431	90	419	.126	.023	.022	.223
90	319	.116	.021	.033	.247	90	369	.421	.134	.916	.064	90	420	.128	.022	.053	.218
90	320	.124	.021	.033	.227	90	370	.473	.150	1.009	.101	90	421	.120	.023	.022	.221
90	321	.164	.031	.044	.371	90	371	.154	.029	.057	.289	90	422	.126	.024	.027	.214
90	322	.437	.097	.141	.831	90	372	.134	.028	.064	.288	90	423	.130	.026	.032	.232
90	323	.636	.126	.234	1.053	90	373	.147	.027	.074	.238	90	424	.100	.067	.334	.119
90	324	.447	.101	.091	.805	90	374	.148	.028	.072	.266	90	425	.001	.042	.174	.140
90	325	.221	.107	.233	.589	90	375	.162	.037	.067	.429	90	426	.045	.041	.136	.196
90	326	.103	.122	.438	.264	90	376	.172	.031	.027	.438	90	427	.084	.031	.119	.284
90	327	.331	.143	.799	.133	90	377	.190	.068	.022	.537	90	428	.044	.056	.158	.342
90	328	.299	.132	.768	.135	90	378	.239	.068	.041	.537	90	429	.030	.071	.295	.337
90	329	.181	.029	.079	.309	90	379	.277	.073	.078	.487	90	430	.133	.091	.507	.310
90	330	.182	.030	.081	.303	90	380	.209	.044	.070	.378	90	431	.181	.096	.371	.129
90	331	.187	.030	.086	.326	90	381	.128	.029	.017	.233	90	432	.224	.097	.391	.010
90	332	.188	.029	.086	.313	90	382	.117	.026	.005	.206	90	433	.402	.128	.029	.864
90	333	.197	.036	.098	.361	90	383	.102	.027	.003	.208	90	434	.223	.102	.063	.379
90	334	.195	.038	.101	.370	90	384	.111	.031	.002	.240	90	435	.117	.037	.015	.304
90	335	.201	.040	.099	.377	90	385	.291	.039	.019	.758	90	436	.170	.027	.083	.262
90	336	.223	.049	.108	.458	90	386	.373	.114	.058	.698	105	101	.547	.157	.048	1.112
90	337	.263	.058	.125	.518	90	387	.336	.138	.046	.878	105	102	.213	.047	.060	.424
90	338	.192	.037	.095	.366	90	388	.153	.142	.351	.743	105	103	.686	.137	.280	1.344
90	339	.132	.022	.017	.207	90	389	.127	.136	.689	.333	105	104	.293	.151	.186	.837
90	340	.122	.021	.002	.204	90	390	.280	.129	.921	.124	105	105	.272	.106	.021	.692
90	341	.123	.022	.002	.201	90	391	.321	.121	.873	.019	105	106	.009	.134	.350	.455
90	342	.156	.028	.057	.271	90	392	.116	.027	.022	.226	105	107	.688	.268	.209	1.672
90	343	.329	.130	.163	1.127	90	393	.112	.027	.027	.235	105	108	.047	.107	.319	.464
90	344	.585	.120	.264	1.153	90	394	.124	.027	.034	.250	105	109	.093	.185	.721	.599
90	345	.492	.124	.025	.909	90	395	.126	.029	.024	.264	105	110	.269	.124	.748	.117
90	346	.254	.132	.281	.701	90	396	.125	.027	.031	.252	105	111	.249	.117	.689	.126
90	347	.187	.142	.654	.229	90	397	.120	.028	.019	.269	105	112	.020	.112	.454	.388
90	348	.468	.157	.901	.002	90	398	.131	.028	.005	.399	105	113	.315	.115	.064	.714
90	349	.479	.152	.870	.064	90	399	.130	.027	.027	.318	105	114	.713	.148	.312	1.198
90	400	.153	.025	.067	.254	90	400	.128	.027	.005	.291	105	115	.917	.174	.479	1.496
90	401	.134	.024	.074	.261	90	401	.113	.029	.046	.303	105	116	.330	.175	.330	1.586
90	402	.154	.024	.079	.254	90	402	.129	.027	.046	.248	105	117	.640	.124	.284	1.133
90	403	.149	.025	.061	.255	90	403	.053	.025	.300	.162	105	118	.425	.120	.131	.988

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	119	-.384	.117	-.097	-.941	105	169	-.215	.061	-.024	-.597	105	219	-.468	.092	-.208	-.872
105	120	-.377	.094	-.124	-.754	105	170	-.180	.047	-.010	-.467	105	220	-.603	.116	-.343	-.1071
105	121	-.354	.077	-.138	-.680	105	171	-.150	.119	-.603	-.147	105	221	-.553	.115	-.280	-.1017
105	122	-.354	.074	-.129	-.717	105	172	-.138	.120	-.595	-.181	105	222	-.419	.082	-.197	-.797
105	123	-.419	.103	-.159	-.950	105	173	-.202	.146	-.785	-.179	105	223	-.237	.040	-.137	-.439
105	124	-.361	.101	-.117	-.909	105	174	-.233	.142	-.800	-.171	105	224	-.224	.037	-.119	-.419
105	125	-.294	.070	-.100	-.621	105	175	-.332	.178	-.468	-.1083	105	225	-.204	.036	-.087	-.367
105	126	-.266	.059	-.105	-.529	105	176	-.637	.183	-.010	-.1322	105	226	-.189	.034	-.062	-.382
105	127	-.234	.032	-.103	-.438	105	177	-.933	.204	-.378	-.1794	105	227	-.160	.027	-.069	-.306
105	128	-.207	.039	-.057	-.376	105	178	-1.028	.218	-.499	-.1808	105	228	-.151	.028	-.041	-.293
105	129	-.263	.131	-.780	-.160	105	179	-.883	.132	-.386	-.1380	105	229	-.162	.033	-.043	-.343
105	130	-.262	.156	-.793	-.257	105	180	-.769	.172	-.275	-.1513	105	230	-.154	.028	-.060	-.293
105	131	-.434	.134	-.995	-.064	105	181	-.410	.131	-.073	-.1108	105	231	-.131	.033	-.034	-.242
105	132	-.438	.147	-.873	-.012	105	182	-.271	.084	-.043	-.902	105	232	-.140	.046	-.030	-.320
105	133	-.067	.171	-.499	-1.014	105	183	-.204	.055	-.009	-.548	105	233	-.113	.033	-.025	-.235
105	134	-.438	.144	-.076	-.953	105	184	-.182	.042	-.011	-.449	105	234	-.107	.028	-.021	-.236
105	135	-.945	.195	-.375	-1.561	105	185	-.187	.044	-.036	-.367	105	235	-.098	.029	-.021	-.251
105	136	-1.113	.201	-.640	-1.636	105	186	-.229	.067	-.069	-.563	105	236	-.096	.031	-.002	-.284
105	137	-1.060	.192	-.592	-1.714	105	187	-.181	.050	-.050	-.502	105	237	-.088	.023	-.011	-.208
105	138	-.727	.143	-.344	-1.288	105	188	-.149	.037	-.037	-.366	105	238	-.226	.080	-.011	-.563
105	139	-.401	.088	-.181	-.715	105	189	-.140	.032	-.032	-.321	105	239	-.204	.097	-.018	-.663
105	140	-.319	.086	-.131	-.823	105	190	-.138	.029	-.055	-.272	105	240	-.032	.055	-.188	-.284
105	141	-.324	.108	-.122	-.833	105	191	-.129	.029	-.014	-.244	105	241	-.016	.233	-.585	-.793
105	142	-.346	.113	-.119	-.778	105	192	-.038	.069	-.339	-.130	105	301	-.175	.069	-.010	-.502
105	143	-.374	.109	-.159	-.959	105	193	-.053	.066	-.369	-.103	105	302	-.505	.108	-.144	-.944
105	144	-.496	.134	-.164	-1.163	105	194	-.049	.069	-.369	-.121	105	303	-.141	.059	-.072	-.438
105	145	-.373	.105	-.098	-.816	105	195	-.054	.076	-.425	-.263	105	304	-.318	.068	-.134	-.542
105	146	-.302	.076	-.052	-.688	105	196	-.313	.102	-.096	-.698	105	305	-.303	.104	-.025	-.776
105	147	-.285	.073	-.048	-.648	105	197	-.454	.108	-.130	-.857	105	306	-.444	.084	-.146	-.781
105	148	-.257	.055	-.117	-.507	105	198	-.625	.133	-.256	-.1172	105	307	-.233	.039	-.082	-.424
105	149	-.222	.039	-.112	-.387	105	199	-.706	.150	-.347	-.1368	105	308	-.207	.038	-.072	-.329
105	150	-.236	.127	-.698	-.103	105	200	-.623	.133	-.302	-.1259	105	309	-.207	.039	-.094	-.390
105	151	-.281	.128	-.686	-.121	105	201	-.460	.095	-.214	-.1053	105	310	-.206	.038	-.089	-.362
105	152	-.339	.148	-.887	-.190	105	202	-.263	.055	-.094	-.636	105	311	-.210	.038	-.097	-.379
105	153	-.386	.148	-.919	-.074	105	203	-.202	.038	-.062	-.445	105	312	-.217	.040	-.104	-.403
105	154	-.301	.198	-.431	-1.079	105	204	-.172	.030	-.064	-.316	105	313	-.216	.050	-.069	-.512
105	155	-.705	.194	-.012	-1.653	105	205	-.147	.028	-.060	-.299	105	314	-.219	.056	-.045	-.446
105	156	-.133	.228	-.485	-1.148	105	206	-.139	.033	-.014	-.293	105	315	-.234	.053	-.084	-.481
105	157	-.128	.206	-.604	-1.122	105	207	-.144	.043	-.023	-.338	105	316	-.277	.054	-.134	-.532
105	158	-.999	.190	-.491	-1.111	105	208	-.117	.032	-.002	-.252	105	317	-.158	.030	-.056	-.290
105	159	-.911	.182	-.390	-.633	105	209	-.101	.028	-.000	-.223	105	318	-.092	.033	-.035	-.198
105	160	-.333	.171	-.044	-.588	105	210	-.101	.029	-.002	-.208	105	319	-.076	.036	-.047	-.186
105	161	-.344	.112	-.043	-.399	105	211	-.058	.030	-.007	-.219	105	320	-.064	.039	-.062	-.185
105	162	-.244	.072	-.024	-.366	105	212	-.033	.000	-.024	-.188	105	321	-.059	.043	-.121	-.222
105	163	-.222	.056	-.010	-.577	105	213	-.088	.085	-.536	-.160	105	322	-.151	.082	-.141	-.513
105	164	-.266	.060	-.069	-.666	105	214	-.090	.082	-.490	-.160	105	323	-.279	.097	-.002	-.629
105	165	-.396	.114	-.100	-.899	105	215	-.097	.083	-.537	-.137	105	324	-.046	.099	-.386	-.391
105	166	-.243	.013	-.198	-.998	105	216	-.098	.086	-.497	-.105	105	325	-.141	.123	-.539	-.208
105	167	-.238	.069	-.048	-.537	105	217	-.207	.114	-.166	-.711	105	326	-.311	.138	-.706	-.112
105	168	-.219	.060	-.029	-.540	105	218	-.310	.086	-.050	-.714	105	327	-.298	.132	-.686	-.159

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	328	.335	.132	.712	-.074	105	378	-.219	.066	-.053	-.577	105	434	.136	.069	.474	-.029
100	329	-.221	.041	-.116	-.498	105	379	-.237	.072	-.080	-.598	105	435	.134	.066	.441	-.031
100	330	-.223	.040	-.114	-.416	105	380	-.190	.042	-.085	-.365	105	436	.103	.084	.519	-.121
100	331	-.227	.040	-.124	-.396	105	381	-.078	.031	-.041	-.198	105	437	.110	.095	.503	-.213
100	332	-.224	.039	-.121	-.408	105	382	-.028	.034	-.095	-.150	105	438	-.714	.168	-.304	-1.300
100	333	-.222	.039	-.114	-.433	105	383	-.017	.039	.172	-.123	105	439	-.506	.111	-.154	-.964
100	334	-.222	.042	-.094	-.528	105	384	-.037	.047	.237	-.109	105	440	-.282	.053	-.128	-.478
100	335	-.228	.045	-.094	-.488	105	385	-.021	.082	.376	-.345	105	441	-.294	.064	-.152	-.605
100	336	-.233	.050	-.114	-.532	105	386	-.034	.103	.376	-.453	120	101	-.707	.134	-.221	-1.200
100	337	-.231	.062	-.108	-.667	105	387	-.081	.112	.327	-.331	120	102	-.389	.106	-.085	-.939
100	338	-.157	.032	-.046	-.318	105	388	-.235	.122	.732	-.155	120	103	-.869	.193	-.379	-1.611
100	339	-.071	.035	-.104	-.186	105	389	-.318	.130	.786	-.029	120	104	-.618	.205	-.014	-1.330
100	340	-.039	.039	-.114	-.163	105	390	-.230	.135	.781	-.114	120	105	-.563	.104	-.211	-.998
100	341	-.017	.042	-.141	-.178	105	391	-.269	.140	.767	-.085	120	106	-.332	.096	-.090	-.910
100	342	-.009	.047	-.139	-.181	105	392	-.132	.040	.024	-.350	120	107	-.578	.087	-.275	-.917
100	343	-.011	.101	-.176	-.619	105	393	-.127	.040	-.000	-.366	120	108	-.245	.090	.121	-.608
100	344	-.217	.106	.091	-.680	105	394	-.135	.037	-.017	-.373	120	109	-.360	.141	.411	-.801
100	345	-.020	.108	.383	-.306	105	395	-.134	.036	-.012	-.324	120	110	-.218	.198	.906	-.593
100	346	.263	.130	.674	-.107	105	396	-.155	.042	-.002	-.401	120	111	-.258	.141	.772	-.230
100	347	.468	.147	.946	-.045	105	397	-.180	.043	-.046	-.395	120	112	-.309	.108	.066	-.764
100	348	.418	.141	.818	-.049	105	398	-.186	.050	-.044	-.405	120	113	-.570	.125	-.164	-1.017
100	349	.479	.153	.951	-.020	105	399	-.181	.050	-.034	-.392	120	114	-.766	.146	-.389	-1.330
100	350	.210	.039	.087	-.397	105	400	-.141	.039	.014	-.304	120	115	-.710	.155	-.320	-1.362
100	351	-.038	.038	-.079	-.372	105	401	-.106	.035	.022	-.284	120	116	-.579	.141	-.213	-1.216
100	352	-.207	.038	-.084	-.344	105	402	-.128	.030	-.022	-.233	120	117	-.420	.092	-.155	-.800
100	353	-.306	.039	-.054	-.353	105	404	-.164	.076	.495	-.063	120	118	-.464	.122	-.149	-.1.043
100	354	.219	.039	.069	-.644	105	405	-.129	.058	.419	-.051	120	119	-.473	.123	.104	-.1.149
100	355	.222	.064	.010	-.644	105	406	.059	.050	.264	-.102	120	120	-.451	.111	.064	-.1.311
100	356	.222	.061	.005	-.640	105	407	.044	.050	.249	-.150	120	121	-.377	.092	.095	-.839
100	357	.233	.062	.084	-.634	105	408	.058	.045	.254	-.123	120	122	-.332	.073	-.059	-.645
100	358	.205	.072	.107	-.623	105	409	.087	.042	.251	-.041	120	123	-.334	.071	-.107	-.704
100	359	.042	.034	.052	-.362	105	410	.067	.046	.298	-.068	120	124	-.321	.066	-.137	-.663
100	360	.028	.037	.101	-.218	105	411	.051	.061	.307	-.138	120	125	-.310	.061	-.133	-.611
100	361	.028	.043	.151	-.141	105	412	.059	.085	.452	-.198	120	126	-.296	.054	-.090	-.564
100	362	.054	.043	.186	-.119	105	413	-.122	.045	.043	-.444	120	127	-.298	.054	-.118	-.569
100	363	.022	.052	.225	-.136	105	414	-.122	.042	-.010	-.349	120	128	-.293	.055	-.095	-.530
100	364	.046	.111	.297	-.475	105	415	-.125	.040	-.010	-.358	120	129	-.027	.106	.432	-.318
100	365	.122	.125	.371	-.618	105	416	-.127	.039	-.031	-.336	120	130	-.039	.104	.306	-.500
100	366	.048	.136	.496	-.493	105	417	-.146	.042	-.007	-.364	120	131	-.117	.219	.855	-.509
100	367	.270	.141	.738	-.149	105	418	-.155	.038	-.000	-.398	120	132	-.347	.170	.902	-.241
100	368	.432	.144	.858	-.074	105	419	-.159	.038	-.051	-.460	120	133	-.409	.155	.071	-.1.259
100	369	.337	.142	.966	-.047	105	420	-.150	.033	-.046	-.346	120	134	-.701	.155	-.284	-1.297
100	370	.388	.141	.979	-.045	105	421	-.127	.030	-.019	-.236	120	135	-.807	.177	-.379	-1.483
100	371	.173	.032	.074	-.359	105	422	-.123	.032	-.002	-.252	120	136	-.650	.139	-.310	-1.235
100	372	.174	.031	.067	-.319	105	423	-.130	.030	-.022	-.252	120	137	-.534	.129	-.197	-1.159
100	373	.033	.033	.067	-.266	105	424	-.169	.073	.462	-.024	120	138	-.403	.095	-.139	-.819
100	374	.112	.034	.067	-.177	105	430	-.149	.065	.387	-.097	120	139	-.462	.098	-.145	-.917
100	375	.061	.031	.074	-.103	105	431	-.103	.062	.388	-.063	120	140	-.444	.101	-.130	-.866
100	376	.080	.037	.037	-.359	105	432	-.095	.065	.402	-.075	120	141	-.436	.112	-.074	-1.110
100	377	.068	.040	.017	-.662	105	433	-.118	.068	.445	-.068	120	142	-.392	.100	-.033	-1.114

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAH	CPRMS	CPHAX	CPHIN	WD	TAP	CPHEAH	CPRMS	CPHAX	CPHIN	WD	TAP	CPHEAH	CPRMS	CPHAX	CPHIN
1200	143	.338	.079	.104	.746	1200	193	.064	.063	.139	.416	1200	302	.409	.091	.140	.790
1200	144	.333	.076	.083	.878	1200	194	.065	.063	.134	.493	1200	303	.310	.076	.056	.719
1200	145	.329	.063	.126	.646	1200	195	.066	.063	.187	.373	1200	304	.360	.063	.144	.720
1200	146	.314	.061	.133	.581	1200	196	.462	.111	.130	.987	1200	305	.333	.106	.237	.879
1200	147	.306	.033	.142	.369	1200	197	.509	.099	.239	-1.008	1200	306	.318	.091	.186	.817
1200	148	.303	.033	.123	.611	1200	198	.527	.122	.184	-1.118	1200	307	.341	.071	.100	.638
1200	149	.297	.056	.071	.327	1200	199	.466	.135	.111	-1.076	1200	308	.296	.059	.107	.346
1200	150	.053	.120	.300	.434	1200	200	.408	.113	.084	.939	1200	309	.294	.056	.113	.301
1200	151	.038	.118	.495	.426	1200	201	.375	.100	.127	.953	1200	310	.295	.055	.113	.488
1200	152	.038	.140	.793	.438	1200	202	.389	.098	.112	.890	1200	311	.294	.053	.115	.494
1200	153	.129	.173	.418	.418	1200	203	.364	.095	.100	.926	1200	312	.292	.062	.115	.664
1200	154	.335	.153	.039	-1.306	1200	204	.313	.088	.080	.709	1200	313	.296	.069	.039	.677
1200	155	.803	.157	.389	-1.455	1200	205	.266	.077	.032	.658	1200	314	.321	.081	.115	.794
1200	156	.728	.163	.331	-1.427	1200	206	.252	.074	.016	.799	1200	315	.352	.087	.157	.827
1200	157	.528	.131	.216	-1.112	1200	207	.253	.075	.032	.739	1200	316	.382	.071	.202	.725
1200	158	.447	.109	.135	-1.967	1200	208	.241	.066	.035	.595	1200	317	.388	.051	.027	.477
1200	159	.441	.109	.154	.955	1200	209	.288	.062	.034	.665	1200	318	.382	.055	.135	.250
1200	160	.447	.103	.163	.930	1200	210	.222	.053	.039	.642	1200	319	.046	.060	.198	.213
1200	161	.443	.092	.197	.893	1200	211	.222	.053	.022	.651	1200	320	.007	.067	.256	.207
1200	162	.424	.083	.091	.891	1200	212	.200	.033	.036	.506	1200	321	.024	.071	.327	.232
1200	163	.391	.080	.071	.893	1200	213	.066	.035	.035	.460	1200	322	.036	.084	.343	.287
1200	164	.362	.083	.090	.807	1200	214	.066	.088	.088	.513	1200	323	.003	.100	.320	.379
1200	165	.365	.089	.055	.782	1200	215	.005	.067	.321	.177	1200	324	.177	.118	.354	.261
1200	166	.320	.009	.287	.346	1200	216	.034	.068	.294	.139	1200	325	.275	.144	.747	.134
1200	167	.333	.072	.135	.699	1200	217	.414	.094	.059	.913	1200	326	.253	.152	.765	.213
1200	168	.321	.067	.142	.809	1200	218	.423	.088	.155	.840	1200	327	.057	.132	.531	.386
1200	169	.308	.064	.119	.744	1200	219	.452	.094	.137	.890	1200	328	.335	.149	.883	.173
1200	170	.283	.066	.057	.633	1200	220	.459	.118	.089	-1.026	1200	329	.292	.046	.123	.506
1200	171	.051	.100	.332	.336	1200	221	.403	.118	.091	.810	1200	330	.296	.046	.137	.503
1200	172	.062	.088	.341	.343	1200	222	.362	.098	.075	.724	1200	331	.294	.045	.137	.467
1200	173	.068	.124	.535	.501	1200	223	.350	.081	.095	.746	1200	332	.290	.045	.124	.476
1200	174	.018	.132	.723	.439	1200	224	.332	.082	.078	.791	1200	333	.292	.056	.110	.579
1200	175	.587	.152	.002	.161	1200	225	.337	.084	.068	.705	1200	334	.296	.062	.096	.760
1200	176	.733	.156	.348	.510	1200	226	.321	.084	.057	.729	1200	335	.296	.074	.125	.724
1200	177	.608	.164	.216	.390	1200	227	.287	.083	.073	.708	1200	336	.352	.089	.161	.761
1200	178	.443	.141	.139	.252	1200	228	.250	.065	.030	.608	1200	337	.398	.087	.171	.804
1200	179	.399	.116	.075	.076	1200	229	.250	.073	.030	.633	1200	338	.188	.050	.031	.414
1200	180	.399	.116	.075	.076	1200	230	.250	.073	.030	.633	1200	339	.019	.056	.198	.237
1200	181	.399	.111	.033	.958	1200	231	.255	.073	.032	.664	1200	340	.044	.063	.276	.168
1200	182	.399	.100	.056	.886	1200	232	.244	.059	.033	.666	1200	341	.078	.070	.393	.132
1200	183	.399	.083	.071	.742	1200	233	.233	.077	.037	.678	1200	342	.116	.078	.454	.103
1200	184	.399	.083	.080	.638	1200	234	.219	.055	.005	.602	1200	343	.148	.098	.553	.159
1200	185	.399	.066	.068	.637	1200	235	.193	.055	.011	.437	1200	344	.116	.118	.551	.310
1200	186	.399	.072	.080	.617	1200	236	.201	.033	.034	.403	1200	345	.322	.137	.757	.059
1200	187	.399	.065	.100	.582	1200	237	.199	.044	.066	.428	1200	346	.452	.156	.920	.066
1200	188	.399	.056	.071	.559	1200	238	.389	.099	.068	.727	1200	347	.421	.160	.863	.142
1200	189	.399	.049	.082	.432	1200	239	.441	.104	.011	.844	1200	348	.179	.141	.656	.293
1200	190	.399	.048	.073	.446	1200	240	.095	.130	.233	.811	1200	349	.423	.171	.911	.176
1200	191	.399	.049	.043	.503	1200	241	.099	.122	.494	.510	1200	350	.307	.063	.128	.741
1200	192	.399	.066	.173	.292	1200	242	.347	.069	.100	.694	1200	351	.308	.062	.125	.800

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPMIN
120	332	.302	.039	.134	.629	120	402	.170	.044	.017	.337	135	117	.317	.062	.131	.768
120	333	.291	.038	.127	.660	120	404	.273	.096	.670	.036	135	118	.370	.089	.141	.861
120	334	.311	.080	.137	.917	120	405	.213	.073	.520	.014	135	119	.375	.100	.101	.915
120	335	.311	.082	.086	.922	120	406	.144	.053	.380	.017	135	120	.342	.071	.101	.750
120	336	.322	.085	.132	.849	120	407	.128	.047	.339	.005	135	121	.339	.066	.037	.810
120	337	.324	.091	.115	.860	120	408	.118	.048	.362	.029	135	122	.349	.067	.101	.911
120	338	.325	.053	.167	.764	120	409	.090	.054	.318	.087	135	123	.361	.071	.125	.889
120	339	.210	.054	.034	.470	120	410	.006	.053	.208	.177	135	124	.350	.076	.108	.734
120	340	.019	.053	.239	.202	120	411	.078	.060	.126	.313	135	125	.349	.083	.066	.892
120	341	.076	.058	.315	.117	120	412	.073	.071	.241	.390	135	126	.333	.093	.012	.962
120	342	.133	.055	.385	.054	120	413	.223	.073	.083	.741	135	127	.363	.093	.042	.983
120	343	.193	.073	.450	.015	120	414	.241	.071	.031	.773	135	128	.356	.092	.080	.980
120	344	.244	.100	.619	.088	120	415	.246	.072	.073	.746	135	129	.230	.102	.180	.641
120	345	.226	.124	.633	.283	120	416	.243	.071	.046	.718	135	130	.302	.103	.014	.781
120	346	.366	.131	.836	.051	120	417	.249	.073	.038	.662	135	131	.380	.166	.449	.935
120	347	.449	.143	.915	.078	120	418	.270	.078	.019	.629	135	132	.016	.247	.905	.710
120	348	.363	.155	.834	.122	120	419	.278	.075	.073	.606	135	133	.604	.119	.223	.049
120	349	.123	.147	.625	.349	120	420	.233	.061	.046	.513	135	134	.734	.122	.398	.148
120	350	.245	.139	.873	.243	120	421	.168	.047	.065	.368	135	135	.544	.103	.235	.889
120	351	.263	.061	.010	.844	120	422	.152	.046	.053	.339	135	136	.157	.012	.195	.122
120	352	.264	.062	.027	.842	120	423	.174	.042	.027	.337	135	137	.335	.062	.143	.583
120	353	.250	.054	.088	.542	120	427	.286	.093	.661	.070	135	138	.308	.054	.126	.553
120	354	.245	.053	.105	.525	120	430	.245	.085	.571	.002	135	139	.359	.072	.160	.830
120	355	.279	.078	.029	.925	120	431	.185	.068	.462	.029	135	140	.361	.080	.148	.934
120	356	.276	.082	.068	.934	120	432	.168	.069	.438	.044	135	141	.337	.062	.101	.726
120	357	.261	.090	.072	.986	120	433	.172	.075	.528	.065	135	142	.344	.059	.113	.682
120	358	.287	.099	.114	.099	120	434	.155	.079	.511	.070	135	143	.359	.064	.125	.809
120	359	.330	.096	.124	.013	120	435	.073	.065	.339	.123	135	144	.369	.071	.110	.834
120	360	.201	.054	.019	.511	120	436	.090	.063	.199	.247	135	145	.335	.065	.084	.865
120	361	.030	.042	.161	.132	120	437	.055	.089	.366	.201	135	146	.332	.072	.120	.758
120	362	.050	.043	.269	.065	120	438	.094	.130	.422	.629	135	147	.333	.081	.094	.788
120	363	.113	.058	.339	.024	120	439	.066	.143	.274	.1	135	148	.343	.085	.070	.837
120	364	.163	.067	.417	.000	120	440	.334	.060	.167	.591	135	149	.324	.081	.061	.786
120	365	.215	.085	.536	.043	120	441	.339	.07	.124	.732	135	150	.267	.109	.118	.638
120	366	.210	.102	.579	.123	135	101	.771	.143	.250	.1	135	151	.282	.109	.092	.647
120	367	.289	.108	.734	.022	135	102	.506	.113	.186	.045	135	152	.304	.113	.082	.684
120	368	.314	.122	.795	.022	135	103	.751	.134	.350	.149	135	153	.277	.172	.477	.812
120	369	.217	.136	.739	.243	135	104	.863	.165	.298	.505	135	154	.783	.163	.341	.344
120	370	.018	.136	.477	.574	135	105	.652	.124	.283	.100	135	155	.760	.133	.329	.265
120	371	.130	.150	.705	.334	135	106	.460	.157	.115	.195	135	156	.457	.096	.225	.830
120	372	.255	.077	.043	.750	135	107	.554	.096	.273	.125	135	157	.342	.066	.129	.821
120	373	.247	.076	.077	.905	135	108	.388	.099	.080	.797	135	158	.331	.060	.120	.609
120	374	.255	.075	.075	.797	135	109	.482	.100	.176	.871	135	159	.336	.057	.148	.614
120	375	.255	.071	.085	.717	135	110	.322	.237	.609	.899	135	160	.346	.053	.155	.591
120	376	.262	.075	.667	.718	135	111	.178	.202	.846	.607	135	161	.365	.047	.211	.531
120	377	.243	.077	.632	.522	135	112	.520	.100	.216	.866	135	162	.376	.047	.224	.555
120	378	.294	.085	.107	.736	135	113	.623	.109	.333	.018	135	163	.380	.050	.193	.609
120	379	.221	.080	.073	.727	135	114	.584	.113	.235	.017	135	164	.369	.057	.183	.619
120	380	.242	.061	.041	.523	135	115	.440	.096	.169	.790	135	165	.359	.066	.051	.613
120	401	.153	.046	.082	.351	135	116	.369	.073	.143	.649	135	166	.326	.062	.082	.376

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	TAP	CPREAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPREAN	CPRMS	CPMAX	CPMIN
1677	326	.052	.137	.507	.507	135	326	.052	.137	.507	.507
1678	327	.222	.112	.180	.699	135	327	.222	.112	.180	.699
1679	328	.361	.172	.964	.278	135	328	.361	.172	.964	.278
1680	329	.327	.085	.056	.012	135	329	.327	.085	.056	.012
1681	330	.331	.085	.068	.010	135	330	.331	.085	.068	.010
1682	331	.326	.089	.073	.881	135	331	.326	.089	.073	.881
1683	332	.315	.076	.841	.841	135	332	.315	.076	.841	.841
1684	333	.345	.100	.065	.983	135	333	.345	.100	.065	.983
1685	334	.364	.103	.087	.925	135	334	.364	.103	.087	.925
1686	335	.443	.117	.146	.985	135	335	.443	.117	.146	.985
1687	336	.505	.135	.162	.122	135	336	.505	.135	.162	.122
1688	337	.467	.111	.119	.966	135	337	.467	.111	.119	.966
1689	338	.148	.073	.139	.416	135	338	.148	.073	.139	.416
1690	339	.068	.093	.437	.240	135	339	.068	.093	.437	.240
1691	340	.140	.099	.496	.164	135	340	.140	.099	.496	.164
1692	341	.183	.097	.482	.070	135	341	.183	.097	.482	.070
1693	342	.239	.106	.561	.027	135	342	.239	.106	.561	.027
1694	343	.314	.122	.709	.007	135	343	.314	.122	.709	.007
1695	344	.339	.134	.774	.017	135	344	.339	.134	.774	.017
1696	345	.465	.153	.930	.034	135	345	.465	.153	.930	.034
1697	346	.419	.155	.845	.146	135	346	.419	.155	.845	.146
1698	347	.167	.147	.604	.429	135	347	.167	.147	.604	.429
1699	348	.164	.123	.196	.628	135	348	.164	.123	.196	.628
1700	349	.306	.204	.934	.576	135	349	.306	.204	.934	.576
1701	350	.338	.090	.104	.109	135	350	.338	.090	.104	.109
1702	351	.344	.089	.119	.022	135	351	.344	.089	.119	.022
1703	352	.336	.084	.118	.885	135	352	.336	.084	.118	.885
1704	353	.305	.076	.015	.760	135	353	.305	.076	.015	.760
1705	354	.324	.097	.049	.000	135	354	.324	.097	.049	.000
1706	355	.335	.101	.073	.946	135	355	.335	.101	.073	.946
1707	356	.376	.115	.092	.943	135	356	.376	.115	.092	.943
1708	357	.410	.135	.128	.232	135	357	.410	.135	.128	.232
1709	358	.452	.120	.143	.990	135	358	.452	.120	.143	.990
1710	359	.181	.072	.109	.488	135	359	.181	.072	.109	.488
1711	360	.076	.076	.355	.109	135	360	.076	.076	.355	.109
1712	361	.188	.091	.593	.039	135	361	.188	.091	.593	.039
1713	362	.261	.102	.706	.017	135	362	.261	.102	.706	.017
1714	363	.323	.115	.791	.036	135	363	.323	.115	.791	.036
1715	364	.390	.135	.940	.060	135	364	.390	.135	.940	.060
1716	365	.431	.138	.905	.056	135	365	.431	.138	.905	.056
1717	366	.456	.146	.912	.085	135	366	.456	.146	.912	.085
1718	367	.340	.156	.946	.201	135	367	.340	.156	.946	.201
1719	368	.054	.164	.662	.556	135	368	.054	.164	.662	.556
1720	369	.222	.134	.198	.608	135	369	.222	.134	.198	.608
1721	370	.003	.166	.670	.556	135	370	.003	.166	.670	.556
1722	371	.330	.093	.070	.876	135	371	.330	.093	.070	.876
1723	372	.335	.095	.092	.940	135	372	.335	.095	.092	.940
1724	373	.330	.084	.111	.811	135	373	.330	.084	.111	.811
1725	374	.313	.078	.099	.815	135	374	.313	.078	.099	.815
1726	375	.337	.093	.102	.005	135	375	.337	.093	.102	.005

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1330000000	3766	-.3333	.0937	-.0092	-1.2221	1335	4322	.201	.076	.491	-.007	150	141	-.314	.063	-.109	-.708
1330000000	3777	-.131	.043	-1.110	-.110	1335	4333	.127	.073	.462	-.053	150	142	-.323	.067	-.075	-.709
1330000000	3788	-.422	.149	-1.110	-.110	1335	4344	-.041	.076	.354	-.182	150	143	-.330	.076	-.048	-.843
1330000000	3799	-.183	.099	-.372	-.372	1335	4355	-.059	.072	.191	-.294	150	144	-.340	.084	-.080	-.879
1330000000	3800	-.213	.075	-.372	-.372	1335	4366	-.170	.069	.087	-.479	150	145	-.306	.086	-.111	-.896
1330000000	3811	-.027	.302	-.163	-.163	1335	4377	-.017	.129	.453	-.530	150	146	-.317	.104	-.041	-.993
1330000000	3822	-.133	.435	-.043	-.043	1335	4388	-.691	.137	.297	-1.408	150	147	-.330	.111	-.022	-.972
1330000000	3833	-.217	.537	-.027	-.027	1335	4399	-.323	.104	.258	-1.012	150	148	-.339	.110	-.046	-.976
1330000000	3844	-.227	.642	-.099	-.099	1335	4400	-.364	.066	.159	-.650	150	149	-.307	.100	-.036	-.998
1330000000	3855	-.221	.783	-.080	-.080	1335	4411	-.401	.111	.084	-1.016	150	150	-.479	.125	-.146	-1.034
1330000000	3866	-.227	.880	-.080	-.080	1335	4422	-.716	.132	.295	-1.249	150	151	-.489	.125	-.148	-1.030
1330000000	3877	-.221	.983	-.080	-.080	1335	4433	-.572	.121	.172	-1.036	150	152	-.509	.129	-.186	-1.085
1330000000	3888	-.221	1.091	-.080	-.080	1335	4444	-.709	.142	.293	-1.689	150	153	-.575	.149	-.056	-1.261
1330000000	3899	-.221	1.199	-.080	-.080	1335	4455	-.813	.154	.300	-1.400	150	154	-.741	.143	-.146	-1.325
1330000000	3910	-.221	1.307	-.080	-.080	1335	4466	-.864	.141	.227	-1.143	150	155	-.493	.116	-.121	-.984
1330000000	3921	-.221	1.415	-.080	-.080	1335	4477	-.938	.143	.173	-1.143	150	156	-.312	.064	-.123	-.586
1330000000	3932	-.221	1.523	-.080	-.080	1335	4488	-.977	.131	.143	-1.172	150	157	-.273	.056	-.097	-.522
1330000000	3943	-.221	1.631	-.080	-.080	1335	4499	-.977	.131	.155	-1.172	150	158	-.277	.054	-.095	-.500
1330000000	3954	-.221	1.739	-.080	-.080	1335	4510	-.977	.131	.155	-1.172	150	159	-.283	.052	-.107	-.480
1330000000	3965	-.221	1.847	-.080	-.080	1335	4521	-.977	.131	.155	-1.172	150	160	-.303	.051	-.162	-.555
1330000000	3976	-.221	1.955	-.080	-.080	1335	4532	-.977	.131	.155	-1.172	150	161	-.313	.054	-.162	-.517
1330000000	3987	-.221	2.063	-.080	-.080	1335	4543	-.977	.131	.155	-1.172	150	162	-.319	.056	-.131	-.568
1330000000	3998	-.221	2.171	-.080	-.080	1335	4554	-.977	.131	.155	-1.172	150	163	-.311	.057	-.075	-.569
1330000000	4009	-.221	2.279	-.080	-.080	1335	4565	-.977	.131	.155	-1.172	150	164	-.293	.060	-.046	-.637
1330000000	4020	-.221	2.387	-.080	-.080	1335	4576	-.977	.131	.155	-1.172	150	165	-.294	.065	-.070	-.558
1330000000	4031	-.221	2.495	-.080	-.080	1335	4587	-.977	.131	.155	-1.172	150	166	-.288	.075	-.039	-.728
1330000000	4042	-.221	2.603	-.080	-.080	1335	4598	-.977	.131	.155	-1.172	150	167	-.315	.099	-.102	-.904
1330000000	4053	-.221	2.711	-.080	-.080	1335	4609	-.977	.131	.155	-1.172	150	168	-.346	.116	-.073	-1.140
1330000000	4064	-.221	2.819	-.080	-.080	1335	4620	-.977	.131	.155	-1.172	150	169	-.358	.126	-.024	-1.206
1330000000	4075	-.221	2.927	-.080	-.080	1335	4631	-.977	.131	.155	-1.172	150	170	-.330	.108	-.034	-.939
1330000000	4086	-.221	3.035	-.080	-.080	1335	4642	-.977	.131	.155	-1.172	150	171	-.482	.116	-.124	-.986
1330000000	4097	-.221	3.143	-.080	-.080	1335	4653	-.977	.131	.155	-1.172	150	172	-.493	.119	-.131	-1.005
1330000000	4108	-.221	3.251	-.080	-.080	1335	4664	-.977	.131	.155	-1.172	150	173	-.495	.126	-.155	-1.003
1330000000	4119	-.221	3.359	-.080	-.080	1335	4675	-.977	.131	.155	-1.172	150	174	-.478	.134	-.170	-.949
1330000000	4130	-.221	3.467	-.080	-.080	1335	4686	-.977	.131	.155	-1.172	150	175	-.659	.130	-.298	-1.095
1330000000	4141	-.221	3.575	-.080	-.080	1335	4697	-.977	.131	.155	-1.172	150	176	-.447	.107	-.182	-.978
1330000000	4152	-.221	3.683	-.080	-.080	1335	4708	-.977	.131	.155	-1.172	150	177	-.286	.064	-.113	-.588
1330000000	4163	-.221	3.791	-.080	-.080	1335	4719	-.977	.131	.155	-1.172	150	178	-.269	.059	-.106	-.673
1330000000	4174	-.221	3.899	-.080	-.080	1335	4730	-.977	.131	.155	-1.172	150	179	-.269	.055	-.115	-.511
1330000000	4185	-.221	4.007	-.080	-.080	1335	4741	-.977	.131	.155	-1.172	150	180	-.279	.054	-.120	-.507
1330000000	4196	-.221	4.115	-.080	-.080	1335	4752	-.977	.131	.155	-1.172	150	181	-.303	.052	-.146	-.498
1330000000	4207	-.221	4.223	-.080	-.080	1335	4763	-.977	.131	.155	-1.172	150	182	-.318	.055	-.158	-.520
1330000000	4218	-.221	4.331	-.080	-.080	1335	4774	-.977	.131	.155	-1.172	150	183	-.319	.055	-.128	-.529
1330000000	4229	-.221	4.439	-.080	-.080	1335	4785	-.977	.131	.155	-1.172	150	184	-.308	.053	-.018	-.489
1330000000	4240	-.221	4.547	-.080	-.080	1335	4796	-.977	.131	.155	-1.172	150	185	-.274	.051	-.083	-.475
1330000000	4251	-.221	4.655	-.080	-.080	1335	4807	-.977	.131	.155	-1.172	150	186	-.272	.059	-.011	-.572
1330000000	4262	-.221	4.763	-.080	-.080	1335	4818	-.977	.131	.155	-1.172	150	187	-.268	.072	-.074	-.823
1330000000	4273	-.221	4.871	-.080	-.080	1335	4829	-.977	.131	.155	-1.172	150	188	-.295	.094	-.043	-.986
1330000000	4284	-.221	4.979	-.080	-.080	1335	4840	-.977	.131	.155	-1.172	150	189	-.308	.107	-.063	-1.407
1330000000	4295	-.221	5.087	-.080	-.080	1335	4851	-.977	.131	.155	-1.172	150	190	-.309	.105	-.047	-1.143

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
150	.091	.097	.088	150	241	.237	.123	.088	.733	150	330	.329	.121	.028	-1.008
150	.098	.097	.089	150	241	.237	.123	.012	.876	150	330	.340	.119	.036	-1.119
150	.111	.097	.081	150	301	.331	.103	.933	.616	150	332	.334	.107	.060	-1.878
150	.113	.099	.083	150	302	.331	.065	.124	.943	150	333	.301	.099	.000	-1.861
150	.116	.099	.081	150	303	.333	.123	.107	.878	150	334	.327	.127	.014	-1.160
150	.113	.237	-1.022	150	304	.353	.091	.098	.661	150	335	.368	.144	.007	-1.263
150	.099	.173	.888	150	305	.336	.081	.984	-1.000	150	336	.438	.158	.053	-1.432
150	.084	.110	.700	150	306	.472	.120	.053	.823	150	337	.508	.183	.141	-1.384
150	.066	.112	.539	150	307	.402	.104	.074	-1.170	150	338	.435	.134	.069	-1.070
150	.065	.079	.598	150	308	.369	.142	.024	-1.071	150	339	.107	.099	.254	.512
150	.068	.122	.698	150	309	.360	.130	.000	-1.074	150	360	.169	.111	.635	-1.105
150	.077	.119	.923	150	310	.363	.130	.022	-1.108	150	361	.277	.112	.661	.017
150	.064	.153	.322	150	311	.364	.127	.007	-1.227	150	362	.345	.117	.712	.079
150	.058	.126	.586	150	312	.409	.146	.093	-1.274	150	363	.393	.122	.785	.100
150	.064	.072	.779	150	313	.461	.153	.229	-1.299	150	364	.431	.132	.838	.105
150	.071	.079	.639	150	314	.529	.146	.292	-1.206	150	365	.440	.151	.966	.041
150	.055	.056	.814	150	315	.363	.098	.014	.828	150	366	.342	.157	.979	-1.162
150	.055	.036	.188	150	316	.096	.091	.296	-1.471	150	367	.065	.161	.598	-1.574
150	.055	.031	.188	150	317	.039	.102	.418	-1.241	150	368	.310	.163	.150	-1.926
150	.059	.044	.068	150	318	.072	.101	.455	-1.196	150	369	.520	.141	.122	-1.976
150	.059	.040	.844	150	319	.114	.104	.494	-1.208	150	370	.299	.174	.272	-1.936
150	.055	.044	.688	150	320	.153	.109	.513	-1.198	150	371	.318	.111	.012	-1.947
150	.055	.044	.688	150	321	.220	.123	.595	-1.124	150	372	.335	.111	.024	-1.902
150	.055	.044	.688	150	322	.257	.132	.694	-1.124	150	373	.339	.121	.041	-1.990
150	.055	.077	.711	150	323	.227	.142	.671	-1.308	150	374	.320	.116	.033	-1.943
150	.055	.077	.711	150	324	.041	.144	.511	-1.434	150	375	.348	.142	.007	-1.103
150	.055	.077	.711	150	325	.227	.135	.160	-1.757	150	376	.384	.166	.041	-1.256
150	.055	.077	.711	150	326	.236	.131	.175	-1.983	150	377	.469	.196	.101	-1.741
150	.055	.077	.711	150	327	.498	.131	.010	-1.485	150	378	.535	.219	.091	-1.891
150	.073	.059	.600	150	328	.342	.120	.060	-1.962	150	379	.444	.140	.065	-1.300
150	.061	.065	.367	150	329	.344	.116	.048	-1.996	150	380	.170	.091	.177	-1.665
150	.060	.070	.520	150	330	.345	.115	.014	-1.280	150	381	.089	.091	.496	-1.144
150	.056	.135	.598	150	331	.332	.111	.024	-1.974	150	382	.204	.100	.651	-1.065
150	.055	.135	.573	150	332	.364	.133	.029	-1.169	150	383	.281	.107	.767	-1.005
150	.051	.131	.648	150	333	.415	.154	.074	-1.265	150	384	.327	.113	.739	.053
150	.053	.143	.531	150	334	.494	.156	.148	-1.335	150	385	.326	.117	.770	.070
150	.053	.137	.634	150	335	.568	.155	.177	-1.318	150	386	.292	.120	.714	-1.048
150	.051	.132	.619	150	336	.363	.117	.062	-1.869	150	387	.199	.131	.690	-1.233
150	.051	.131	.619	150	337	.022	.103	.328	-1.355	150	388	.042	.168	.483	-1.629
150	.059	.029	.391	150	338	.171	.117	.593	-1.175	150	389	.312	.153	.156	-1.873
150	.064	.034	.379	150	339	.236	.123	.690	-1.093	150	390	.494	.124	.151	-1.874
150	.069	.033	.637	150	340	.303	.123	.699	.031	150	391	.300	.156	.267	-1.831
150	.072	.081	.679	150	341	.353	.128	.829	.014	150	392	.322	.138	.127	-1.200
150	.078	.068	.925	150	342	.416	.141	.916	.029	150	393	.322	.128	.007	-1.362
150	.089	.061	-1.009	150	343	.432	.147	.950	.007	150	394	.335	.135	.017	-1.374
150	.092	.032	-1.069	150	344	.391	.152	.902	.098	150	395	.333	.126	.034	-1.177
150	.097	.040	.884	150	345	.173	.158	.669	.544	150	396	.331	.128	.019	-1.200
150	.093	.032	-1.267	150	346	.193	.154	.278	-1.063	150	397	.341	.150	.010	-1.232
150	.041	-1.128		150	347	.446	.115	.103	-1.010	150	398	.387	.164	.005	-1.276
150	.038	-1.166		150	348	.018	.236	.864	.733	150	399	.394	.136	.033	-1.072

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	400	.321	.095	.019	-.741	165	115	-.248	.085	-.000	-.743	165	165	-.287	.103	-.034	-.927
150	401	.211	.082	.050	-.583	165	116	-.231	.074	-.014	-.633	165	166	-.316	.116	-.085	-.959
150	402	.229	.082	.024	-.608	165	117	-.235	.075	-.016	-.737	165	167	-.345	.123	-.051	-.982
150	404	.365	.124	.918	-.086	165	118	-.241	.070	-.022	-.753	165	168	-.350	.127	-.029	-.986
150	405	.319	.097	.640	-.084	165	119	-.271	.074	-.010	-.617	165	169	-.352	.145	.017	-1.186
150	406	.211	.072	.485	-.007	165	120	-.280	.078	-.022	-.831	165	170	-.329	.126	.029	-1.044
150	407	.116	.060	.327	-.099	165	121	-.286	.075	-.027	-.656	165	171	-.576	.156	.172	-1.227
150	408	.002	.061	.244	-.226	165	122	-.287	.086	-.017	-.656	165	172	-.588	.160	.201	-1.292
150	409	.135	.073	.433	-.226	165	123	-.287	.096	-.029	-.634	165	173	-.598	.170	.225	-1.269
150	410	.269	.097	.633	-.337	165	124	-.303	.109	-.058	-.771	165	174	-.577	.172	.128	-1.218
150	411	.116	.060	.485	-.007	165	125	-.305	.123	-.017	-.051	165	175	-.491	.163	.092	-1.115
150	412	.236	.098	.687	-.733	165	126	-.323	.138	-.039	-.037	165	176	-.333	.129	.019	-.887
150	413	.326	.124	.822	-.710	165	127	-.344	.146	-.031	-.1079	165	177	-.248	.096	.000	-.707
150	414	.307	.129	.147	-.101	165	128	-.373	.149	-.007	-.1247	165	178	-.237	.092	.032	-.848
150	415	.323	.140	.060	-.344	165	129	-.601	.121	-.228	-.1260	165	179	-.241	.094	-.043	-1.104
150	416	.324	.130	.036	-.174	165	130	-.674	.136	-.269	-.1260	165	180	-.254	.091	.057	-1.355
150	417	.340	.149	.103	-.333	165	131	-.780	.172	-.259	-.1335	165	181	-.281	.115	.043	-.983
150	418	.335	.147	.082	-.333	165	132	-.649	.167	-.408	-.1162	165	182	-.262	.091	.038	-.620
150	419	.335	.135	.055	-.333	165	133	-.525	.135	-.082	-.1119	165	183	-.241	.070	.023	-.565
150	420	.285	.103	.033	-.533	165	134	-.364	.121	-.027	-.826	165	184	-.235	.065	.018	-.605
150	421	.177	.095	.307	-.533	165	135	-.254	.084	-.029	-.677	165	185	-.225	.074	.007	-.754
150	422	.179	.089	.283	-.556	165	136	-.241	.080	-.027	-.657	165	186	-.242	.101	.009	-.968
150	423	.241	.074	.014	-.533	165	137	-.277	.079	-.017	-.826	165	187	-.274	.119	.034	-.924
150	424	.347	.111	.796	-.999	165	138	-.228	.074	-.002	-.652	165	188	-.308	.128	.050	-.943
150	425	.347	.105	.786	-.999	165	139	-.247	.071	-.063	-.839	165	189	-.325	.133	.011	-.872
150	426	.347	.081	.556	-.999	165	140	-.267	.070	-.085	-.817	165	190	-.315	.137	.052	-1.022
150	427	.153	.074	.453	-.999	165	141	-.269	.069	-.048	-.738	165	191	-.295	.127	.020	-1.059
150	428	.333	.079	.333	-.233	165	142	-.278	.071	-.031	-.649	165	192	-.418	.129	.079	-.882
150	429	.086	.067	.206	-.422	165	143	-.278	.066	-.036	-.714	165	193	-.456	.139	.134	-1.053
150	430	.182	.084	.077	-.494	165	144	-.293	.100	-.002	-.826	165	194	-.484	.160	.074	-1.155
150	431	.281	.088	.012	-.597	165	145	-.305	.098	-.065	-.813	165	195	-.346	.130	.248	-.818
150	432	.029	.182	.623	-.591	165	146	-.311	.113	-.022	-.964	165	196	-.466	.147	.002	-1.045
150	433	.463	.131	.141	-.333	165	147	-.321	.117	-.044	-.883	165	197	-.355	.126	.025	-.924
150	434	.393	.098	.132	-.102	165	148	-.338	.126	-.143	-.971	165	198	-.263	.097	.009	-.677
150	435	.337	.072	.091	-.622	165	149	-.353	.153	-.068	-.1281	165	199	-.238	.079	.023	-.585
150	441	.435	.140	.022	-.108	165	150	-.613	.139	-.203	-.1102	165	200	-.245	.079	.027	-.721
165	101	.709	.136	-.288	-.115	165	151	-.621	.139	-.247	-.1154	165	201	-.243	.084	-.023	-.768
165	102	.612	.124	-.213	-.107	165	152	-.639	.143	-.271	-.1220	165	202	-.242	.079	.050	-.681
165	103	.731	.171	-.206	-.178	165	153	-.654	.158	-.249	-.1186	165	203	-.246	.077	.056	-.818
165	104	.820	.170	-.355	-.158	165	154	-.493	.159	-.092	-.1177	165	204	-.239	.072	.116	-.564
165	105	.734	.150	-.257	-.132	165	155	-.309	.105	-.034	-.823	165	205	-.211	.067	.032	-.580
165	106	.603	.228	.167	-.168	165	156	-.258	.088	-.007	-.730	165	206	-.215	.083	.002	-.776
165	107	.698	.231	.116	-.170	165	157	-.244	.080	-.036	-.751	165	207	-.234	.094	.020	-.899
165	108	.717	.178	.258	-.145	165	158	-.250	.080	-.046	-.811	165	208	-.253	.098	.045	-.832
165	109	.772	.191	-.238	-.166	165	159	-.257	.080	-.034	-.898	165	209	-.270	.111	.059	-.906
165	110	.754	.216	.547	-.138	165	160	-.273	.078	-.099	-.831	165	210	-.291	.137	.102	-1.241
165	111	.273	.323	.740	-.104	165	161	-.274	.073	-.041	-.625	165	211	-.308	.143	.027	-1.224
165	112	.576	.129	.143	-.123	165	162	-.264	.063	-.010	-.562	165	212	-.310	.132	.048	-.904
165	113	.407	.113	.000	-.398	165	163	-.260	.056	-.077	-.303	165	213	-.408	.139	.039	-1.083
165	114	.283	.099	.002	-.814	165	164	-.271	.072	-.014	-.633	165	214	-.460	.175	.068	-1.243

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD
180	4330	.370	.114	.913	.069	180	139	.176	.069	.031	-.812	180	189	-.249	.126	.067	-.925	180
180	4331	.233	.089	.602	.070	180	140	.185	.070	.034	-.542	180	190	-.268	.145	.161	-1.077	180
180	4332	.082	.077	.419	.073	180	141	.183	.073	.060	-.489	180	191	-.293	.149	.127	-1.012	180
180	4333	.267	.082	.367	.079	180	142	.193	.079	.051	-.503	180	192	-.271	.104	.054	-.711	180
180	4334	.183	.060	.107	.095	180	143	.210	.095	.055	-.862	180	193	-.292	.109	.009	-.898	180
180	4444	.066	.117	.066	.109	180	144	.230	.109	.002	-.847	180	194	-.302	.131	.100	-.832	180
180	4445	.066	.117	.066	.114	180	145	.233	.114	.000	-1.132	180	195	-.193	.111	.210	-.735	180
180	4446	.066	.117	.066	.132	180	146	.246	.132	.108	-1.257	180	196	-.277	.114	.036	-.854	180
180	4447	.066	.117	.066	.139	180	147	.261	.139	.070	-1.388	180	197	-.211	.100	.062	-.579	180
180	4448	.066	.117	.066	.151	180	148	.282	.151	.118	-1.213	180	198	-.161	.079	.074	-.537	180
180	4449	.066	.117	.066	.162	180	149	.292	.162	.133	-1.772	180	199	-.150	.072	.056	-.639	180
180	4450	.066	.117	.066	.169	180	150	.446	.169	.017	-.018	180	200	-.154	.068	.049	-.646	180
180	4451	.066	.117	.066	.169	180	151	.475	.169	.002	-.635	180	201	-.139	.067	.040	-.559	180
180	4452	.066	.117	.066	.169	180	152	.487	.169	.002	-.084	180	202	-.136	.063	.051	-.464	180
180	4453	.066	.117	.066	.169	180	153	.488	.169	.158	-.156	180	203	-.119	.053	.109	-.373	180
180	4454	.066	.117	.066	.169	180	154	.304	.147	.173	-.980	180	204	-.124	.043	.025	-.314	180
180	4455	.066	.117	.066	.123	180	155	.228	.123	.147	-.874	180	205	-.121	.053	.058	-.675	180
180	4456	.066	.117	.066	.117	180	156	.216	.117	.101	-1.228	180	206	-.138	.063	.033	-.602	180
180	4457	.066	.117	.066	.103	180	157	.202	.103	.161	-.686	180	207	-.153	.072	.038	-.547	180
180	4458	.066	.117	.066	.097	180	158	.205	.097	.190	-.616	180	208	-.168	.080	.029	-.680	180
180	4459	.066	.117	.066	.080	180	159	.192	.080	.101	-.641	180	209	-.176	.095	.071	-.713	180
180	4460	.066	.117	.066	.054	180	160	.172	.054	.000	-.436	180	210	-.203	.122	.071	-1.008	180
180	4461	.066	.117	.066	.045	180	161	.164	.045	.014	-.369	180	211	-.224	.130	.096	-1.084	180
180	4462	.066	.117	.066	.049	180	162	.172	.049	.007	-.359	180	212	-.242	.131	.094	-1.056	180
180	4463	.066	.117	.066	.059	180	163	.188	.059	.029	-.423	180	213	-.280	.112	.105	-.791	180
180	4464	.066	.117	.066	.083	180	164	.209	.083	.022	-.880	180	214	-.320	.131	.004	-.928	180
180	4465	.066	.117	.066	.100	180	165	.228	.100	.041	-.667	180	215	-.146	.163	.496	-.863	180
180	4466	.066	.117	.066	.112	180	166	.247	.112	.034	-.715	180	216	-.016	.133	.532	-.585	180
180	4467	.066	.117	.066	.124	180	167	.270	.124	.041	-.944	180	217	-.283	.117	.027	-.691	180
180	4468	.066	.117	.066	.138	180	168	.297	.138	.031	-1.096	180	218	-.215	.100	.049	-.700	180
180	4469	.066	.117	.066	.157	180	169	.301	.157	.182	-1.168	180	219	-.158	.079	.038	-.610	180
180	4470	.066	.117	.066	.148	180	170	.304	.148	.185	-1.081	180	220	-.149	.068	.018	-.525	180
180	4471	.066	.117	.066	.152	180	171	.433	.152	.043	-1.098	180	221	-.132	.060	.029	-.437	180
180	4472	.066	.117	.066	.158	180	172	.448	.158	.050	-1.161	180	222	-.124	.057	.025	-.399	180
180	4473	.066	.117	.066	.173	180	173	.459	.173	.079	-1.331	180	223	-.127	.053	.020	-.413	180
180	4474	.066	.117	.066	.166	180	174	.419	.166	.087	-1.346	180	224	-.128	.052	.020	-.406	180
180	4475	.066	.117	.066	.167	180	175	.345	.167	.079	-1.105	180	225	-.118	.051	.036	-.334	180
180	4476	.066	.117	.066	.150	180	176	.273	.150	.118	-.892	180	226	-.113	.047	.049	-.285	180
180	4477	.066	.117	.066	.133	180	177	.195	.133	.105	-1.036	180	227	-.117	.044	.034	-.355	180
180	4478	.066	.117	.066	.123	180	178	.187	.123	.125	-1.111	180	228	-.116	.049	.025	-.517	180
180	4479	.066	.117	.066	.109	180	179	.182	.109	.087	-.936	180	229	-.118	.048	.025	-.494	180
180	4480	.066	.117	.066	.092	180	180	.178	.092	.027	-.713	180	230	-.147	.062	.002	-.594	180
180	4481	.066	.117	.066	.062	180	181	.144	.062	.000	-.653	180	231	-.134	.058	.062	-.430	180
180	4482	.066	.117	.066	.043	180	182	.126	.043	.060	-.317	180	232	-.142	.065	.071	-.482	180
180	4483	.066	.117	.066	.042	180	183	.131	.042	.002	-.306	180	233	-.151	.071	.051	-.514	180
180	4484	.066	.117	.066	.050	180	184	.153	.050	.013	-.366	180	234	-.170	.085	.061	-.644	180
180	4485	.066	.117	.066	.065	180	185	.167	.065	.042	-.648	180	235	-.202	.127	.074	-1.101	180
180	4486	.066	.117	.066	.085	180	186	.186	.085	.045	-.963	180	236	-.198	.127	.109	-.954	180
180	4487	.066	.117	.066	.096	180	187	.203	.096	.047	-.894	180	237	-.230	.135	.092	-.976	180
180	4488	.066	.117	.066	.108	180	188	.230	.108	.036	-.756	180	238	-.382	.298	.857	-1.307	180

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAH	CPRHS	CPMAX	CPHIN	WD	TAP	CPHEAH	CPRHS	CPMAX	CPHIN	WD	TAP	CPHEAH	CPRHS	CPMAX	CPHIN
110	3344	0.361	0.173	0.177	0.333	110	3344	0.361	0.173	0.177	0.333	110	3344	0.361	0.173	0.177	0.333
110	3345	0.310	0.136	0.137	0.333	110	3345	0.310	0.136	0.137	0.333	110	3345	0.310	0.136	0.137	0.333
110	3346	0.220	0.108	0.108	0.333	110	3346	0.220	0.108	0.108	0.333	110	3346	0.220	0.108	0.108	0.333
110	3347	0.270	0.137	0.137	0.333	110	3347	0.270	0.137	0.137	0.333	110	3347	0.270	0.137	0.137	0.333
110	3348	0.148	0.091	0.091	0.333	110	3348	0.148	0.091	0.091	0.333	110	3348	0.148	0.091	0.091	0.333
110	3349	0.056	0.081	0.081	0.333	110	3349	0.056	0.081	0.081	0.333	110	3349	0.056	0.081	0.081	0.333
110	3350	0.186	0.103	0.103	0.333	110	3350	0.186	0.103	0.103	0.333	110	3350	0.186	0.103	0.103	0.333
110	3351	0.439	0.158	0.158	0.333	110	3351	0.439	0.158	0.158	0.333	110	3351	0.439	0.158	0.158	0.333
110	3352	0.449	0.171	0.171	0.333	110	3352	0.449	0.171	0.171	0.333	110	3352	0.449	0.171	0.171	0.333
110	3353	0.197	0.158	0.158	0.333	110	3353	0.197	0.158	0.158	0.333	110	3353	0.197	0.158	0.158	0.333
110	3354	0.101	0.164	0.164	0.333	110	3354	0.101	0.164	0.164	0.333	110	3354	0.101	0.164	0.164	0.333
110	3355	0.064	0.121	0.121	0.333	110	3355	0.064	0.121	0.121	0.333	110	3355	0.064	0.121	0.121	0.333
110	3356	0.078	0.084	0.084	0.333	110	3356	0.078	0.084	0.084	0.333	110	3356	0.078	0.084	0.084	0.333
110	3357	0.096	0.082	0.082	0.333	110	3357	0.096	0.082	0.082	0.333	110	3357	0.096	0.082	0.082	0.333
110	3358	0.107	0.087	0.087	0.333	110	3358	0.107	0.087	0.087	0.333	110	3358	0.107	0.087	0.087	0.333
110	3359	0.132	0.096	0.096	0.333	110	3359	0.132	0.096	0.096	0.333	110	3359	0.132	0.096	0.096	0.333
110	3360	0.230	0.131	0.131	0.333	110	3360	0.230	0.131	0.131	0.333	110	3360	0.230	0.131	0.131	0.333
110	3361	0.493	0.233	0.233	0.333	110	3361	0.493	0.233	0.233	0.333	110	3361	0.493	0.233	0.233	0.333
110	3362	0.434	0.213	0.213	0.333	110	3362	0.434	0.213	0.213	0.333	110	3362	0.434	0.213	0.213	0.333
110	3363	0.372	0.181	0.181	0.333	110	3363	0.372	0.181	0.181	0.333	110	3363	0.372	0.181	0.181	0.333
110	3364	0.325	0.155	0.155	0.333	110	3364	0.325	0.155	0.155	0.333	110	3364	0.325	0.155	0.155	0.333
110	3365	0.299	0.153	0.153	0.333	110	3365	0.299	0.153	0.153	0.333	110	3365	0.299	0.153	0.153	0.333
110	3366	0.260	0.138	0.138	0.333	110	3366	0.260	0.138	0.138	0.333	110	3366	0.260	0.138	0.138	0.333
110	3367	0.187	0.123	0.123	0.333	110	3367	0.187	0.123	0.123	0.333	110	3367	0.187	0.123	0.123	0.333
110	3368	0.087	0.114	0.114	0.333	110	3368	0.087	0.114	0.114	0.333	110	3368	0.087	0.114	0.114	0.333
110	3369	0.007	0.080	0.080	0.333	110	3369	0.007	0.080	0.080	0.333	110	3369	0.007	0.080	0.080	0.333
110	3370	0.008	0.068	0.068	0.333	110	3370	0.008	0.068	0.068	0.333	110	3370	0.008	0.068	0.068	0.333
110	3371	0.091	0.083	0.083	0.333	110	3371	0.091	0.083	0.083	0.333	110	3371	0.091	0.083	0.083	0.333
110	3372	0.328	0.124	0.124	0.333	110	3372	0.328	0.124	0.124	0.333	110	3372	0.328	0.124	0.124	0.333
110	3373	0.380	0.134	0.134	0.333	110	3373	0.380	0.134	0.134	0.333	110	3373	0.380	0.134	0.134	0.333
110	3374	0.276	0.127	0.127	0.333	110	3374	0.276	0.127	0.127	0.333	110	3374	0.276	0.127	0.127	0.333
110	3375	0.107	0.112	0.112	0.333	110	3375	0.107	0.112	0.112	0.333	110	3375	0.107	0.112	0.112	0.333
110	3376	0.097	0.093	0.093	0.333	110	3376	0.097	0.093	0.093	0.333	110	3376	0.097	0.093	0.093	0.333
110	3377	0.028	0.076	0.076	0.333	110	3377	0.028	0.076	0.076	0.333	110	3377	0.028	0.076	0.076	0.333
110	3378	0.051	0.085	0.085	0.333	110	3378	0.051	0.085	0.085	0.333	110	3378	0.051	0.085	0.085	0.333
110	3379	0.085	0.091	0.091	0.333	110	3379	0.085	0.091	0.091	0.333	110	3379	0.085	0.091	0.091	0.333
110	3380	0.113	0.103	0.103	0.333	110	3380	0.113	0.103	0.103	0.333	110	3380	0.113	0.103	0.103	0.333
110	3381	0.223	0.123	0.123	0.333	110	3381	0.223	0.123	0.123	0.333	110	3381	0.223	0.123	0.123	0.333
110	3382	0.455	0.199	0.199	0.333	110	3382	0.455	0.199	0.199	0.333	110	3382	0.455	0.199	0.199	0.333
110	3383	0.417	0.192	0.192	0.333	110	3383	0.417	0.192	0.192	0.333	110	3383	0.417	0.192	0.192	0.333
110	3384	0.368	0.169	0.169	0.333	110	3384	0.368	0.169	0.169	0.333	110	3384	0.368	0.169	0.169	0.333
110	3385	0.308	0.159	0.159	0.333	110	3385	0.308	0.159	0.159	0.333	110	3385	0.308	0.159	0.159	0.333
110	3386	0.296	0.144	0.144	0.333	110	3386	0.296	0.144	0.144	0.333	110	3386	0.296	0.144	0.144	0.333
110	3387	0.277	0.128	0.128	0.333	110	3387	0.277	0.128	0.128	0.333	110	3387	0.277	0.128	0.128	0.333
110	3388	0.016	0.094	0.094	0.333	110	3388	0.016	0.094	0.094	0.333	110	3388	0.016	0.094	0.094	0.333
110	3389	0.013	0.076	0.076	0.333	110	3389	0.013	0.076	0.076	0.333	110	3389	0.013	0.076	0.076	0.333
110	3390	0.029	0.069	0.069	0.333	110	3390	0.029	0.069	0.069	0.333	110	3390	0.029	0.069	0.069	0.333
110	3391	0.028	0.066	0.066	0.333	110	3391	0.028	0.066	0.066	0.333	110	3391	0.028	0.066	0.066	0.333

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
161	2334	.051	.073	.564		221	102	.016	.738			222	320	.061	.080	.407	.333
162	2225	.056	.036	.669		222	107	.317	.249			223	321	.079	.096	.503	.882
163	2117	.062	.046	.743		223	101	.013	.900	-1	.000	224	322	.136	.101	.373	.812
164	2111	.070	.002	.643		224	110	.002	.904			225	323	.332	.129	.212	.980
165	2119	.079	.007	.758		225	102	.002	.932			226	324	.324	.137	.087	.998
166	2500	.089	.007	.837		226	181	.089	.534			227	325	.282	.129	.102	.841
167	3551	.111	.102	.016	-1	227	115	.020	-1	.079		228	326	.258	.123	.060	.886
168	5229	.127	.245	.161	-1	228	107	.013	-1	.012		229	327	.250	.105	.024	.849
169	358	.113	.027	.702		229	084	.011	.930			230	328	.238	.098	.094	.706
170	121	.094	.470	.170		230	240	.074	.041	.769		231	329	.404	.170	.928	.114
171	269	.091	.022	.661		231	214	.068	.133	.479		232	330	.317	.176	.918	.243
172	277	.082	.053	.655		232	207	.066	.094	.490		233	331	.049	.180	.748	.531
173	317	.093	.048	.809		233	201	.060	.052	.463		234	332	.013	.087	.313	.330
174	325	.091	.063	.832		234	209	.062	.003	.514		235	333	.193	.113	.590	.160
175	323	.096	.038	.183	-1	235	199	.065	.000			236	334	.418	.133	.911	.036
176	282	.096	.041	.099	-1	236	201	.060	.040	.632		237	335	.460	.144	.963	.010
177	187	.077	.022	.690		237	201	.068	.000	.633		238	336	.296	.139	.803	.188
178	173	.066	.003	.633		238	209	.073	.036	.621		239	337	.048	.126	.542	.324
179	189	.060	.003	.444		239	201	.071	.018	.368		240	338	.090	.101	.523	.182
180	198	.034	.032	.444		240	301	.076	.004	.744		241	339	.045	.079	.413	.159
181	204	.057	.047	.431		241	333	.076	.004	.744		242	340	.006	.073	.383	.181
182	216	.064	.002	.638		242	219	.077	.007	.758		243	341	.020	.072	.343	.249
183	214	.067	.043	.537		243	210	.086	.009	.846		244	342	.060	.073	.311	.320
184	210	.069	.003	.713		244	202	.112	.034	-1	.032	245	343	.153	.082	.188	.454
185	200	.053	.043	.000		245	244	.093	.034	.733		246	344	.358	.131	.140	.015
186	206	.086	.004	.700		246	314	.097	.009	.659		247	345	.323	.137	.007	.219
187	249	.098	.041	.004		247	012	.082	.318	.264		248	346	.290	.128	.028	.274
188	342	.129	.072	.960		248	159	.163	.093	.708		249	347	.268	.118	.043	.025
189	452	.136	.115	.162	-1	249	117	.128	.605	.638		250	348	.256	.106	.077	.983
190	338	.116	.133	.909		250	321	.143	.526	.841		251	349	.233	.094	.133	.677
191	043	.093	.336	.233		251	333	.092	.041	.677		252	350	.252	.137	.764	.113
192	238	.090	.063	.282		252	309	.102	.060	.711		253	351	.149	.130	.676	.251
193	333	.107	.043	.123	-1	253	322	.073	.034	.566		254	352	.149	.103	.641	.253
194	330	.101	.007	.929		254	300	.106	.092	.967		255	353	.080	.089	.423	.210
195	333	.086	.014	.673		255	419	.094	.055	.836		256	354	.188	.109	.674	.147
196	313	.119	.050	.161	-1	256	333	.093	.029	.708		257	355	.413	.131	.854	.063
197	366	.102	.003	.111	-1	257	306	.105	.000	.570		258	356	.461	.142	.882	.027
198	444	.088	.003	.000		258	307	.221	.150	-1	.510	259	357	.311	.127	.766	.068
199	777	.073	.003	.668		259	306	.160	.781	.123		260	358	.109	.111	.501	.260
200	777	.069	.003	.668		260	294	.144	.781	.215		261	359	.113	.088	.437	.191
201	777	.069	.003	.668		261	174	.074	.703	.590		262	360	.062	.064	.316	.135
202	666	.063	.011	.558		262	111	.084	.010	.584		263	361	.014	.055	.283	.169
203	666	.069	.027	.444		263	666	.094	.423	.253		264	362	.040	.048	.181	.188
204	666	.076	.070	.666		264	333	.122	.089			265	363	.094	.046	.099	.258
205	666	.084	.018	.666		265	444	.133	.091	.094		266	364	.192	.059	.012	.456
206	666	.077	.003	.666		266	167	.123	.336	.277		267	365	.348	.120	.092	.967
207	666	.087	.018	.666		267	333	.117	.439	.434		268	366	.276	.104	.041	.879
208	666	.087	.032	.666		268	666	.098	.482	.300		269	367	.261	.097	.012	.869
209	666	.114	.038	.666		269	012	.082	.376	.287		270	368	.250	.091	.043	.851
210	666	.104	.088	.666		270	666	.098	.408	.246		271	369	.247	.083	.012	.711

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
22225	370	.231	.076	.024	.629	22225	421	.222	.080	.520	.010	240	135	.277	.086	.042	.995
22225	371	.175	.131	.733	.258	22225	422	.209	.077	.519	.010	240	136	.286	.098	.012	.809
22225	372	.094	.126	.583	.337	22225	423	.244	.083	.563	.031	240	137	.290	.102	.034	.755
22225	373	.020	.098	.520	.302	22225	424	.142	.064	.663	.434	240	138	.251	.097	.050	.913
22225	374	.013	.078	.330	.246	22225	430	.146	.067	.132	.398	240	139	.299	.112	.005	.771
22225	375	.098	.096	.410	.224	22225	431	.093	.058	.127	.304	240	140	.317	.114	.002	.833
22225	376	.311	.113	.713	.022	22225	432	.119	.068	.089	.418	240	141	.323	.111	.010	.990
22225	377	.355	.131	.805	.026	22225	433	.153	.080	.149	.521	240	142	.369	.113	.010	.919
22225	378	.258	.133	.790	.164	22225	434	.181	.089	.149	.588	240	143	.430	.141	.081	.921
22225	379	.119	.120	.629	.243	22225	435	.236	.106	.170	.733	240	144	.477	.170	.137	.934
22225	380	.112	.098	.571	.170	22225	436	.277	.112	.031	.918	240	145	.704	.213	.184	.945
22225	381	.040	.064	.312	.156	22225	437	.139	.100	.243	.470	240	146	.878	.252	.249	.918
22225	382	.033	.054	.164	.210	22225	438	.240	.063	.014	.494	240	147	.707	.169	.231	.937
22225	383	.079	.050	.123	.236	22225	439	.241	.060	.036	.482	240	148	.201	.148	.620	.836
22225	384	.114	.049	.106	.293	22225	440	.354	.105	.043	.995	240	149	.176	.126	.340	.191
22225	385	.192	.061	.022	.487	22225	441	.051	.187	.540	.914	240	150	.210	.057	.047	.468
22225	386	.362	.114	.087	.937	240	101	.053	.078	.066	.870	240	151	.234	.055	.088	.489
22225	387	.286	.101	.005	.931	240	102	.633	.111	.244	.066	240	152	.242	.057	.088	.530
22225	388	.231	.054	.043	.821	240	103	.210	.109	.230	.612	240	153	.244	.056	.100	.500
22225	389	.226	.086	.024	.908	240	104	.302	.077	.069	.616	240	154	.246	.036	.034	.601
22225	390	.248	.090	.019	.038	240	105	.444	.094	.118	.735	240	155	.249	.059	.086	.720
22225	391	.269	.082	.041	.935	240	106	.736	.132	.404	.228	240	156	.259	.065	.071	.919
22225	392	.006	.100	.439	.346	240	107	.305	.075	.061	.639	240	157	.275	.074	.091	.718
22225	393	.002	.096	.470	.357	240	108	.245	.053	.044	.532	240	158	.292	.080	.084	.657
22225	394	.017	.083	.432	.362	240	109	.236	.057	.059	.468	240	159	.293	.081	.049	.860
22225	395	.013	.085	.350	.345	240	110	.241	.039	.062	.497	240	160	.312	.088	.012	.765
22225	396	.003	.100	.463	.415	240	111	.241	.060	.074	.533	240	161	.335	.105	.088	.698
22225	397	.137	.083	.554	.120	240	112	.250	.062	.081	.544	240	162	.360	.116	.022	.790
22225	398	.212	.089	.705	.012	240	113	.261	.069	.078	.654	240	163	.379	.128	.042	.953
22225	399	.220	.100	.779	.101	240	114	.275	.084	.010	.689	240	164	.394	.130	.064	.971
22225	400	.193	.082	.806	.062	240	115	.290	.094	.007	.715	240	165	.413	.147	.039	.940
22225	401	.193	.081	.597	.010	240	116	.302	.101	.032	.760	240	166	.413	.147	.039	.940
22225	402	.149	.087	.669	.022	240	117	.287	.103	.128	.820	240	167	.463	.173	.152	.927
22225	404	.245	.067	.130	.475	240	118	.309	.123	.126	.876	240	168	.715	.191	.167	.902
22225	405	.155	.084	.120	.698	240	119	.334	.134	.034	.867	240	169	.321	.154	.159	.921
22225	406	.154	.068	.089	.447	240	120	.348	.137	.027	.935	240	170	.211	.126	.625	.167
22225	407	.111	.076	.005	.535	240	121	.377	.109	.010	.833	240	171	.248	.079	.061	.644
22225	408	.111	.099	.007	.718	240	122	.477	.133	.011	.184	240	172	.248	.079	.061	.644
22225	409	.095	.095	.041	.933	240	123	.577	.162	.022	.174	240	173	.256	.085	.005	.696
22225	410	.093	.112	.029	.848	240	124	.693	.172	.213	.267	240	174	.291	.088	.062	.817
22225	411	.093	.109	.031	.899	240	125	.744	.172	.269	.222	240	175	.265	.078	.054	.703
22225	412	.083	.083	.122	.734	240	126	.551	.116	.167	.913	240	176	.223	.067	.044	.593
22225	413	.082	.104	.525	.771	240	127	.123	.114	.339	.580	240	177	.197	.058	.041	.506
22225	414	.082	.083	.422	.324	240	128	.099	.100	.000	.478	240	178	.230	.076	.045	.567
22225	415	.060	.091	.333	.338	240	129	.222	.064	.064	.404	240	179	.259	.083	.030	.592
22225	416	.055	.086	.367	.360	240	130	.234	.049	.081	.409	240	180	.261	.079	.002	.540
22225	417	.055	.090	.451	.384	240	131	.234	.049	.088	.410	240	181	.265	.089	.032	.590
22225	418	.050	.083	.514	.094	240	132	.256	.050	.093	.439	240	182	.289	.107	.097	.722
22225	419	.081	.081	.624	.002	240	133	.231	.062	.076	.480	240	183	.317	.123	.041	.912
22225	420	.084	.084	.643	.072	240	134	.264	.071	.079	.623	240	184	.339	.142	.039	.994

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	185	.333	.151	-.032	-1.158	240	233	.443	.161	-.029	-1.137	240	344	-.338	.071	-.163	-.697
240	186	-.367	.184	-.025	-1.528	240	236	-.347	.122	-.131	-.801	240	345	-.278	.069	-.090	-.379
240	187	-.501	.253	-.084	-1.678	240	237	-.058	.088	-.333	-.234	240	346	-.264	.065	-.063	-.643
240	188	-.658	.295	-.171	-1.921	240	238	-.160	.134	-.239	-.640	240	347	-.236	.039	-.039	-.344
240	189	-.615	.210	-.124	-1.382	240	239	-.092	.084	-.231	-.647	240	348	-.233	.054	-.080	-.326
240	190	-.329	.153	-.115	-.953	240	240	-.349	.194	-.036	-.720	240	349	-.244	.052	-.073	-.472
240	191	-.103	.109	-.378	-.216	240	241	-.304	.072	-.089	-.607	240	350	-.361	.160	.911	-.068
240	192	-.230	.084	-.050	-.827	240	301	-.472	.116	-.093	-.908	240	351	-.323	.159	.861	-.151
240	193	-.220	.084	-.025	-.728	240	302	-.260	.078	-.037	-.621	240	352	-.256	.157	.872	-.270
240	194	-.169	.078	-.079	-.650	240	303	-.473	.094	-.120	-.825	240	353	-.216	.117	.648	-.124
240	195	-.150	.064	-.084	-.378	240	304	-.308	.110	-.175	-.906	240	354	-.332	.136	.833	-.017
240	196	-.242	.092	-.032	-.681	240	305	-.405	.097	-.049	-.721	240	355	-.447	.140	.891	.107
240	197	-.685	.014	-.014	-.708	240	306	-.221	.079	-.097	-.589	240	356	-.362	.135	.804	-.022
240	198	-.230	.081	-.081	-.634	240	307	-.820	.175	-.115	-.439	240	357	-.115	.135	.567	-.404
240	199	-.331	.099	-.027	-.632	240	308	-.275	.144	-.738	-.141	240	358	-.087	.131	.416	-.341
240	200	-.333	.096	-.091	-.711	240	309	-.239	.129	-.628	-.202	240	359	-.029	.096	.754	-.434
240	201	-.333	.086	-.047	-.647	240	310	-.233	.150	-.626	-.202	240	360	-.012	.057	.261	-.175
240	202	-.330	.082	-.070	-.638	240	311	-.151	.133	-.446	-.282	240	361	-.026	.033	.214	-.185
240	203	-.288	.093	-.029	-.837	240	312	-.130	.130	-.624	-.282	240	362	-.069	.044	.114	-.214
240	204	-.288	.110	-.050	-.839	240	313	-.304	.132	-.772	-.192	240	363	-.118	.039	.032	-.254
240	205	-.333	.119	-.097	-.733	240	314	-.222	.139	-.699	-.236	240	364	-.210	.047	-.061	-.385
240	206	-.317	.127	-.007	-.073	240	315	-.016	.122	-.420	-.432	240	365	-.340	.097	-.110	-.806
240	207	-.317	.150	-.025	-.164	240	316	-.253	.117	-.141	-.646	240	366	-.271	.080	-.073	-.689
240	208	-.392	.209	-.030	-.269	240	317	-.133	.079	-.196	-.420	240	367	-.262	.076	-.049	-.676
240	209	-.443	.244	-.102	-.733	240	318	-.099	.099	-.153	-.270	240	368	-.256	.073	-.044	-.719
240	210	-.511	.184	-.149	-.544	240	319	-.102	.050	-.090	-.307	240	369	-.249	.071	-.078	-.855
240	211	-.333	.140	-.023	-.139	240	320	-.111	.044	-.063	-.397	240	370	-.245	.056	-.093	-.572
240	212	-.039	.083	-.312	-.237	240	321	-.116	.042	-.170	-.304	240	371	-.220	.133	-.788	-.122
240	213	-.205	.084	-.043	-.701	240	322	-.160	.042	-.127	-.338	240	372	-.181	.130	-.704	-.227
240	214	-.195	.086	-.061	-.677	240	323	-.326	.066	-.132	-.620	240	373	-.146	.135	-.723	-.290
240	215	-.071	.071	-.146	-.757	240	324	-.285	.070	-.105	-.699	240	374	-.099	.107	-.509	-.253
240	216	-.126	.061	-.157	-.387	240	325	-.266	.080	-.046	-.723	240	375	-.188	.125	-.651	-.212
240	217	-.211	.082	-.041	-.662	240	326	-.250	.072	-.039	-.655	240	376	-.298	.120	-.750	-.056
240	218	-.333	.089	-.052	-.659	240	327	-.248	.055	-.027	-.525	240	377	-.267	.107	-.758	-.066
240	219	-.333	.090	-.114	-.691	240	328	-.261	.055	-.027	-.525	240	378	-.108	.110	-.534	-.415
240	220	-.444	.093	-.023	-.852	240	329	-.436	.150	-.099	-.680	240	379	-.024	.112	-.397	-.604
240	221	-.444	.096	-.086	-.538	240	330	-.414	.133	-.099	-.680	240	380	-.003	.082	-.352	-.495
240	222	-.444	.078	-.005	-.536	240	331	-.334	.159	-.099	-.680	240	381	-.017	.054	-.209	-.194
240	223	-.444	.079	-.030	-.623	240	332	-.116	.128	-.633	-.336	240	382	-.079	.045	-.151	-.234
240	224	-.444	.083	-.023	-.613	240	333	-.332	.144	-.666	-.114	240	383	-.111	.039	-.071	-.246
240	225	-.444	.083	-.084	-.640	240	334	-.457	.155	-.655	-.055	240	384	-.144	.036	-.012	-.318
240	226	-.444	.086	-.000	-.643	240	335	-.354	.144	-.689	-.060	240	385	-.225	.051	-.063	-.466
240	227	-.444	.089	-.048	-.598	240	336	-.099	.133	-.653	-.033	240	386	-.355	.097	-.110	-.800
240	228	-.444	.091	-.027	-.651	240	337	-.150	.122	-.777	-.082	240	387	-.282	.082	-.063	-.647
240	229	-.444	.096	-.011	-.641	240	338	-.049	.099	-.225	-.455	240	388	-.252	.077	-.022	-.592
240	230	-.444	.103	-.048	-.982	240	339	-.033	.059	-.156	-.988	240	389	-.244	.088	-.005	-.338
240	231	-.444	.123	-.023	-.884	240	340	-.049	.050	-.139	-.833	240	390	-.265	.091	-.063	-.822
240	232	-.444	.147	-.036	-.297	240	341	-.067	.175	-.139	-.488	240	391	-.245	.074	-.075	-.643
240	233	-.444	.196	-.043	-.448	240	342	-.096	.043	-.202	-.700	240	392	-.062	.117	-.568	-.332
240	234	-.444	.230	-.077	-.436	240	343	-.170	.042	-.063	-.668	240	393	-.038	.105	-.507	-.301

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAR	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAR	CPRMS	CPMAX	CPMIN	WD	TAP	CPHEAR	CPRMS	CPMAX	CPMIN
2240	334	.096	.493	.266	233	109	.201	.033	.093	.330	255	159	.298	.063	.054	.514	
2240	335	.091	.480	.253	233	110	.202	.034	.089	.377	255	160	.232	.044	.047	.493	
2240	336	.104	.534	.272	233	111	.203	.033	.092	.371	255	161	.245	.051	.010	.524	
2240	337	.094	.626	.238	233	112	.247	.047	.099	.550	255	162	.316	.079	.057	.724	
2240	338	.081	.534	.234	233	113	.243	.031	.106	.431	255	163	.504	.144	.027	1.244	
2240	339	.080	.509	.080	233	114	.276	.069	.099	.627	255	164	.947	.190	.303	1.770	
2240	400	.073	.456	.222	233	115	.337	.105	.121	.824	255	165	-1.014	.188	.499	1.796	
2240	401	.069	.464	.002	233	116	.393	.108	.131	.846	255	166	-1.140	.203	.624	1.921	
2240	402	.085	.602	.012	233	117	.322	.069	.137	.667	255	167	-1.193	.230	.537	2.028	
2240	404	.049	.019	.357	233	118	.330	.075	.124	.644	255	168	.688	.191	.118	1.302	
2240	405	.051	.102	.415	233	119	.324	.089	.111	.705	255	169	.128	.180	.463	.925	
2240	406	.209	.012	.439	233	120	.313	.096	.094	.769	255	170	.345	.141	.786	.020	
2240	407	.058	.497	.056	233	121	.638	.103	.101	.841	255	171	.196	.044	.059	.386	
2240	408	.066	.068	.326	233	122	.690	.139	.223	1.172	255	172	.202	.041	.079	.377	
2240	409	.082	.043	.636	233	123	.931	.171	.359	1.514	255	173	.206	.043	.086	.408	
2240	410	.093	.056	.688	233	124	.863	.145	.412	1.290	255	174	.222	.045	.084	.446	
2240	411	.100	.100	.770	233	125	.770	.117	.458	1.228	255	175	.221	.048	.104	.443	
2240	412	.077	.114	.451	233	126	.382	.096	.015	.734	255	176	.221	.062	.057	.547	
2240	413	.103	.669	.333	233	127	.089	.127	.492	.396	255	177	.156	.039	.032	.374	
2240	414	.104	.683	.241	233	128	.063	.116	.454	.330	255	178	.177	.047	.037	.442	
2240	415	.088	.688	.000	233	129	.213	.036	.111	.389	255	179	.226	.062	.014	.529	
2240	416	.100	.667	.101	233	130	.214	.036	.116	.394	255	180	.223	.049	.028	.440	
2240	417	.088	.447	.336	233	131	.217	.035	.124	.415	255	181	.202	.045	.021	.542	
2240	418	.085	.385	.119	233	132	.215	.036	.118	.409	255	182	.234	.052	.021	.679	
2240	419	.060	.604	.022	233	133	.248	.051	.103	.514	255	183	.294	.062	.042	.762	
2240	420	.075	.473	.012	233	134	.263	.059	.099	.580	255	184	.410	.090	.083	.905	
2240	421	.050	.605	.000	233	135	.294	.072	.087	.579	255	185	.890	.194	.347	1.564	
2240	422	.070	.600	.010	233	136	.357	.099	.121	.858	255	186	-1.059	.202	.375	1.840	
2240	423	.066	.556	.029	233	137	.410	.104	.138	.819	255	187	-1.202	.217	.511	2.181	
2240	424	.047	.532	.004	233	138	.306	.072	.119	.627	255	188	-1.231	.245	.600	2.350	
2240	425	.056	.538	.000	233	139	.257	.069	.059	.655	255	189	.717	.190	.163	1.366	
2240	426	.047	.535	.000	233	140	.244	.060	.042	.555	255	190	.253	.174	.419	.881	
2240	427	.056	.676	.493	233	141	.269	.060	.111	.554	255	191	.190	.133	.658	.132	
2240	428	.052	.456	.707	233	142	.368	.075	.183	.659	255	192	.130	.048	.005	.414	
2240	429	.059	.539	.000	233	143	.930	.184	.391	.494	255	193	.119	.051	.021	.381	
2240	430	.059	.539	.000	233	144	.043	.184	.315	.667	255	194	.129	.060	.037	.603	
2240	431	.059	.539	.000	233	145	.032	.169	.591	.641	255	195	.133	.058	.053	.545	
2240	432	.056	.538	.000	233	146	.175	.175	.506	.591	255	196	.165	.049	.012	.542	
2240	433	.056	.538	.000	233	147	.491	.140	.002	.950	255	197	.157	.043	.007	.365	
2240	434	.050	.538	.000	233	148	.072	.154	.496	.599	255	198	.158	.047	.000	.357	
2240	435	.050	.538	.000	233	149	.351	.147	.787	.086	255	199	.174	.055	.005	.425	
2240	436	.050	.538	.000	233	150	.223	.046	.017	.463	255	200	.195	.063	.012	.440	
2240	437	.050	.538	.000	233	151	.222	.044	.069	.458	255	201	.186	.053	.025	.358	
2240	438	.050	.538	.000	233	152	.223	.044	.089	.501	255	202	.196	.042	.028	.391	
2240	439	.050	.538	.000	233	153	.213	.039	.059	.401	255	203	.232	.044	.046	.420	
2240	440	.050	.538	.000	233	154	.239	.053	.104	.515	255	204	.290	.055	.072	.641	
2240	441	.050	.538	.000	233	155	.248	.059	.087	.564	255	205	.360	.078	.085	.797	
2240	442	.050	.538	.000	233	156	.261	.065	.069	.599	255	206	.596	.159	.113	1.279	
2240	443	.050	.538	.000	233	157	.323	.093	.096	.686	255	207	.740	.222	.162	1.594	
2240	444	.050	.538	.000	233	158	.380	.108	.074	.783	255	208	.895	.235	.174	1.859	

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPHEAN	CPRMS	CPMAX	CPHIN
270	183	.170	.030	.070	.335	270	183	.170	.030	.070	.335	270	183	.170	.030	.070	.335
270	184	.217	.043	.107	.352	270	184	.217	.043	.107	.352	270	184	.217	.043	.107	.352
270	185	.517	.153	.136	.411	270	185	.517	.153	.136	.411	270	185	.517	.153	.136	.411
270	186	.608	.156	.240	.312	270	186	.608	.156	.240	.312	270	186	.608	.156	.240	.312
270	187	.641	.190	.093	.573	270	187	.641	.190	.093	.573	270	187	.641	.190	.093	.573
270	188	.493	.204	.142	.380	270	188	.493	.204	.142	.380	270	188	.493	.204	.142	.380
270	189	.114	.181	.565	.232	270	189	.114	.181	.565	.232	270	189	.114	.181	.565	.232
270	190	.168	.160	.755	.216	270	190	.168	.160	.755	.216	270	190	.168	.160	.755	.216
270	191	.320	.125	.762	.253	270	191	.320	.125	.762	.253	270	191	.320	.125	.762	.253
270	192	.192	.049	.051	.354	270	192	.192	.049	.051	.354	270	192	.192	.049	.051	.354
270	193	.180	.044	.058	.207	270	193	.180	.044	.058	.207	270	193	.180	.044	.058	.207
270	194	.180	.044	.058	.168	270	194	.180	.044	.058	.168	270	194	.180	.044	.058	.168
270	195	.186	.041	.065	.102	270	195	.186	.041	.065	.102	270	195	.186	.041	.065	.102
270	196	.190	.040	.086	.976	270	196	.190	.040	.086	.976	270	196	.190	.040	.086	.976
270	197	.167	.039	.067	.474	270	197	.167	.039	.067	.474	270	197	.167	.039	.067	.474
270	198	.171	.041	.062	.094	270	198	.171	.041	.062	.094	270	198	.171	.041	.062	.094
270	199	.204	.050	.081	.022	270	199	.204	.050	.081	.022	270	199	.204	.050	.081	.022
270	200	.241	.057	.114	.262	270	200	.241	.057	.114	.262	270	200	.241	.057	.114	.262
270	201	.194	.038	.104	.677	270	201	.194	.038	.104	.677	270	201	.194	.038	.104	.677
270	202	.140	.023	.062	.249	270	202	.140	.023	.062	.249	270	202	.140	.023	.062	.249
270	203	.140	.024	.042	.651	270	203	.140	.024	.042	.651	270	203	.140	.024	.042	.651
270	204	.152	.028	.037	.349	270	204	.152	.028	.037	.349	270	204	.152	.028	.037	.349
270	205	.162	.037	.032	.404	270	205	.162	.037	.032	.404	270	205	.162	.037	.032	.404
270	206	.356	.095	.143	.331	270	206	.356	.095	.143	.331	270	206	.356	.095	.143	.331
270	207	.465	.125	.220	.444	270	207	.465	.125	.220	.444	270	207	.465	.125	.220	.444
270	208	.519	.151	.153	.552	270	208	.519	.151	.153	.552	270	208	.519	.151	.153	.552
270	209	.433	.183	.097	.389	270	209	.433	.183	.097	.389	270	209	.433	.183	.097	.389
270	210	.177	.153	.390	.254	270	210	.177	.153	.390	.254	270	210	.177	.153	.390	.254
270	211	.009	.134	.570	.246	270	211	.009	.134	.570	.246	270	211	.009	.134	.570	.246
270	212	.206	.094	.705	.277	270	212	.206	.094	.705	.277	270	212	.206	.094	.705	.277
270	213	.157	.045	.028	.526	270	213	.157	.045	.028	.526	270	213	.157	.045	.028	.526
270	214	.165	.045	.046	.338	270	214	.165	.045	.046	.338	270	214	.165	.045	.046	.338
270	215	.177	.044	.070	.425	270	215	.177	.044	.070	.425	270	215	.177	.044	.070	.425
270	216	.184	.042	.077	.425	270	216	.184	.042	.077	.425	270	216	.184	.042	.077	.425
270	217	.172	.046	.032	.182	270	217	.172	.046	.032	.182	270	217	.172	.046	.032	.182
270	218	.168	.044	.055	.504	270	218	.168	.044	.055	.504	270	218	.168	.044	.055	.504
270	219	.185	.046	.060	.873	270	219	.185	.046	.060	.873	270	219	.185	.046	.060	.873
270	220	.211	.055	.088	.914	270	220	.211	.055	.088	.914	270	220	.211	.055	.088	.914
270	221	.230	.055	.097	.409	270	221	.230	.055	.097	.409	270	221	.230	.055	.097	.409
270	222	.194	.037	.090	.435	270	222	.194	.037	.090	.435	270	222	.194	.037	.090	.435
270	223	.147	.024	.044	.410	270	223	.147	.024	.044	.410	270	223	.147	.024	.044	.410
270	224	.145	.024	.035	.377	270	224	.145	.024	.035	.377	270	224	.145	.024	.035	.377
270	225	.128	.022	.051	.406	270	225	.128	.022	.051	.406	270	225	.128	.022	.051	.406
270	226	.127	.023	.044	.447	270	226	.127	.023	.044	.447	270	226	.127	.023	.044	.447
270	227	.137	.027	.037	.387	270	227	.137	.027	.037	.387	270	227	.137	.027	.037	.387
270	228	.162	.036	.021	.420	270	228	.162	.036	.021	.420	270	228	.162	.036	.021	.420
270	229	.155	.033	.023	.505	270	229	.155	.033	.023	.505	270	229	.155	.033	.023	.505
270	230	.154	.034	.026	.383	270	230	.154	.034	.026	.383	270	230	.154	.034	.026	.383
270	231	.308	.076	.099	.288	270	231	.308	.076	.099	.288	270	231	.308	.076	.099	.288
270	232	.407	.105	.122	.265	270	232	.407	.105	.122	.265	270	232	.407	.105	.122	.265

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
2770	2333	.441	.126	.083	.943	2770	342	.142	.022	.049	.228	2770	392	.223	.089	.767	.022
2770	2334	.362	.143	.093	.910	2770	343	.199	.034	.093	.343	2770	393	.238	.089	.585	.039
2770	2335	.120	.124	.321	.833	2770	344	.332	.073	.149	.636	2770	394	.227	.089	.578	.030
2770	2336	.040	.128	.533	.833	2770	345	.239	.053	.110	.602	2770	395	.228	.089	.566	.005
2770	2337	.233	.099	.711	.833	2770	346	.447	.043	.101	.410	2770	396	.186	.090	.563	.135
2770	2338	.404	.133	.467	.833	2770	347	.222	.041	.113	.397	2770	397	.141	.087	.580	.224
2770	2339	.111	.090	.090	.833	2770	348	.231	.040	.112	.408	2770	398	.037	.095	.370	.407
2770	2340	.188	.092	.092	.833	2770	349	.213	.039	.093	.361	2770	399	.023	.083	.237	.423
2770	2341	.477	.106	.007	.833	2770	350	.433	.145	.917	.015	2770	400	.008	.057	.202	.273
2770	2342	.144	.092	.092	.833	2770	351	.433	.144	.905	.037	2770	401	.060	.052	.319	.113
2770	2343	.474	.089	.167	.833	2770	352	.434	.143	.902	.046	2770	402	.174	.082	.615	.082
2770	2344	.474	.089	.167	.833	2770	353	.441	.143	.993	.080	2770	404	.151	.042	.002	.342
2770	2345	.474	.089	.167	.833	2770	354	.348	.140	.804	.145	2770	405	.134	.043	.020	.307
2770	2346	.081	.042	.073	.833	2770	355	.102	.132	.549	.370	2770	406	.170	.040	.027	.352
2770	2347	.626	.063	.000	.833	2770	356	.273	.181	.220	.944	2770	407	.170	.039	.022	.336
2770	2348	.644	.160	.000	.833	2770	357	.361	.216	.020	.334	2770	408	.168	.041	.005	.391
2770	2349	.244	.123	.244	.833	2770	358	.603	.174	.167	.204	2770	409	.166	.045	.012	.415
2770	2350	.244	.123	.244	.833	2770	359	.512	.184	.125	.177	2770	410	.190	.049	.047	.464
2770	2351	.244	.123	.244	.833	2770	360	.181	.044	.059	.435	2770	411	.201	.050	.074	.549
2770	2352	.244	.123	.244	.833	2770	361	.146	.031	.054	.305	2770	412	.191	.038	.096	.352
2770	2353	.244	.123	.244	.833	2770	362	.148	.027	.066	.277	2770	413	.247	.090	.690	.025
2770	2354	.244	.123	.244	.833	2770	363	.163	.027	.074	.279	2770	414	.239	.090	.677	.015
2770	2355	.244	.123	.244	.833	2770	364	.203	.040	.098	.374	2770	415	.245	.092	.677	.012
2770	2356	.244	.123	.244	.833	2770	365	.276	.076	.107	.629	2770	416	.242	.090	.669	.010
2770	2357	.244	.123	.244	.833	2770	366	.190	.053	.086	.308	2770	417	.206	.080	.624	.155
2770	2358	.244	.123	.244	.833	2770	367	.167	.043	.083	.387	2770	418	.137	.073	.439	.164
2770	2359	.244	.123	.244	.833	2770	368	.184	.041	.066	.376	2770	419	.057	.078	.348	.247
2770	2360	.244	.123	.244	.833	2770	369	.167	.037	.064	.388	2770	420	.005	.071	.241	.263
2770	2361	.244	.123	.244	.833	2770	370	.162	.029	.064	.284	2770	421	.043	.052	.236	.162
2770	2362	.244	.123	.244	.833	2770	371	.329	.128	.651	.000	2770	422	.075	.048	.280	.072
2770	2363	.244	.123	.244	.833	2770	372	.328	.127	.856	.020	2770	423	.188	.086	.618	.012
2770	2364	.244	.123	.244	.833	2770	373	.349	.122	.758	.024	2770	427	.148	.037	.007	.329
2770	2365	.244	.123	.244	.833	2770	374	.344	.125	.758	.029	2770	430	.133	.043	.012	.300
2770	2366	.244	.123	.244	.833	2770	375	.296	.118	.758	.216	2770	431	.152	.036	.027	.319
2770	2367	.244	.123	.244	.833	2770	376	.145	.122	.640	.342	2770	432	.166	.036	.025	.342
2770	2368	.244	.123	.244	.833	2770	377	.105	.156	.381	.801	2770	433	.163	.038	.040	.376
2770	2369	.244	.123	.244	.833	2770	378	.374	.200	.122	.136	2770	434	.163	.043	.015	.371
2770	2370	.244	.123	.244	.833	2770	379	.404	.161	.032	.966	2770	435	.169	.046	.022	.393
2770	2371	.244	.123	.244	.833	2770	380	.304	.139	.067	.945	2770	436	.195	.053	.007	.518
2770	2372	.244	.123	.244	.833	2770	381	.134	.040	.034	.309	2770	437	.187	.041	.069	.398
2770	2373	.244	.123	.244	.833	2770	382	.150	.034	.012	.303	2770	438	.145	.028	.059	.256
2770	2374	.244	.123	.244	.833	2770	383	.137	.034	.027	.299	2770	439	.121	.036	.042	.314
2770	2375	.244	.123	.244	.833	2770	384	.193	.039	.015	.354	2770	440	.244	.090	.040	.650
2770	2376	.244	.123	.244	.833	2770	385	.282	.052	.002	.430	2770	441	.468	.140	.264	.892
2770	2377	.244	.123	.244	.833	2770	386	.282	.083	.052	.660	285	101	.118	.040	.017	.347
2770	2378	.244	.123	.244	.833	2770	387	.232	.067	.044	.561	285	102	.508	.115	.092	.963
2770	2379	.244	.123	.244	.833	2770	388	.196	.062	.012	.526	285	103	.081	.051	.102	.301
2770	2380	.244	.123	.244	.833	2770	389	.176	.057	.005	.506	285	104	.239	.077	.057	.533
2770	2381	.244	.123	.244	.833	2770	390	.179	.042	.032	.422	285	105	.189	.086	.012	.632
2770	2382	.244	.123	.244	.833	2770	391	.163	.030	.069	.289	285	106	.423	.081	.182	.806

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

NO	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1000	137	211	046	102	436	289	137	211	046	102	436	289	137	211	046	102	436
1001	138	267	058	122	516	289	138	267	058	122	516	289	138	267	058	122	516
1002	139	198	033	894	336	289	139	198	033	894	336	289	139	198	033	894	336
1003	160	099	026	952	184	289	160	099	026	952	184	289	160	099	026	952	184
1004	161	060	030	669	179	289	161	060	030	669	179	289	161	060	030	669	179
1005	162	048	036	090	182	289	162	048	036	090	182	289	162	048	036	090	182
1006	163	048	044	122	201	289	163	048	044	122	201	289	163	048	044	122	201
1007	164	120	141	141	650	289	164	120	141	141	650	289	164	120	141	141	650
1008	165	288	119	064	707	289	165	288	119	064	707	289	165	288	119	064	707
1009	166	159	142	112	694	289	166	159	142	112	694	289	166	159	142	112	694
1010	167	077	154	364	586	289	167	077	154	364	586	289	167	077	154	364	586
1011	168	336	159	933	099	289	168	336	159	933	099	289	168	336	159	933	099
1012	169	413	132	845	067	289	169	413	132	845	067	289	169	413	132	845	067
1013	170	416	132	946	085	289	170	416	132	946	085	289	170	416	132	946	085
1014	171	242	050	097	448	289	171	242	050	097	448	289	171	242	050	097	448
1015	172	244	054	094	489	289	172	244	054	094	489	289	172	244	054	094	489
1016	173	234	053	084	476	289	173	234	053	084	476	289	173	234	053	084	476
1017	174	222	049	045	439	289	174	222	049	045	439	289	174	222	049	045	439
1018	175	240	059	012	579	289	175	240	059	012	579	289	175	240	059	012	579
1019	176	230	059	025	633	289	176	230	059	025	633	289	176	230	059	025	633
1020	177	218	045	091	555	289	177	218	045	091	555	289	177	218	045	091	555
1021	178	228	046	086	511	289	178	228	046	086	511	289	178	228	046	086	511
1022	179	274	057	112	573	289	179	274	057	112	573	289	179	274	057	112	573
1023	180	213	036	103	358	289	180	213	036	103	358	289	180	213	036	103	358
1024	181	110	028	026	215	289	181	110	028	026	215	289	181	110	028	026	215
1025	182	072	029	077	173	289	182	072	029	077	173	289	182	072	029	077	173
1026	183	058	034	112	168	289	183	058	034	112	168	289	183	058	034	112	168
1027	184	062	043	147	208	289	184	062	043	147	208	289	184	062	043	147	208
1028	185	180	101	180	363	289	185	180	101	180	363	289	185	180	101	180	363
1029	186	222	111	173	611	289	186	222	111	173	611	289	186	222	111	173	611
1030	187	154	133	374	676	289	187	154	133	374	676	289	187	154	133	374	676
1031	188	023	142	496	550	289	188	023	142	496	550	289	188	023	142	496	550
1032	189	241	136	750	147	289	189	241	136	750	147	289	189	241	136	750	147
1033	190	310	130	859	026	289	190	310	130	859	026	289	190	310	130	859	026
1034	191	319	129	828	049	289	191	319	129	828	049	289	191	319	129	828	049
1035	192	234	057	070	653	289	192	234	057	070	653	289	192	234	057	070	653
1036	193	231	054	084	668	289	193	231	054	084	668	289	193	231	054	084	668
1037	194	229	053	065	663	289	194	229	053	065	663	289	194	229	053	065	663
1038	195	231	050	075	624	289	195	231	050	075	624	289	195	231	050	075	624
1039	196	237	051	101	651	289	196	237	051	101	651	289	196	237	051	101	651
1040	197	229	053	110	619	289	197	229	053	110	619	289	197	229	053	110	619
1041	198	237	058	114	695	289	198	237	058	114	695	289	198	237	058	114	695
1042	199	260	066	124	737	289	199	260	066	124	737	289	199	260	066	124	737
1043	200	299	068	155	707	289	200	299	068	155	707	289	200	299	068	155	707
1044	201	194	036	110	357	289	201	194	036	110	357	289	201	194	036	110	357
1045	202	088	024	033	182	289	202	088	024	033	182	289	202	088	024	033	182
1046	203	059	029	063	150	289	203	059	029	063	150	289	203	059	029	063	150
1047	204	044	034	098	145	289	204	044	034	098	145	289	204	044	034	098	145
1048	205	024	041	147	171	289	205	024	041	147	171	289	205	024	041	147	171
1049	206	093	079	154	481	289	206	093	079	154	481	289	206	093	079	154	481

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	340	-.116	.112	-.112	-.112	300	390	-.270	.049	-.116	-.491	315	105	-.446	.085	-.185	-.843
300	341	-.123	.051	-.111	-.111	300	391	-.247	.046	-.086	-.430	315	106	-.518	.093	-.243	-.877
300	342	-.123	.091	-.111	-.111	300	392	-.114	.075	-.521	-.174	315	107	-.384	.094	-.027	-.743
300	343	-.111	.113	-.111	-.111	300	393	-.111	.077	-.456	-.171	315	108	-.306	.090	-.040	-.794
300	344	-.495	.495	-.111	-.111	300	394	-.105	.083	-.516	-.195	315	109	-.296	.081	-.017	-.648
300	345	-.123	.143	-.111	-.111	300	395	-.117	.085	-.526	-.243	315	110	-.297	.080	-.007	-.629
300	346	-.123	.143	-.111	-.111	300	396	-.229	.161	-.188	-.836	315	111	-.290	.080	-.007	-.632
300	347	-.082	.120	-.111	-.111	300	397	-.323	.161	-.193	-.895	315	112	-.299	.094	-.037	-.888
300	348	-.082	.144	-.111	-.111	300	398	-.366	.130	-.015	-.903	315	113	-.312	.099	-.040	-.761
300	349	-.077	.144	-.111	-.111	300	399	-.276	.088	-.052	-.678	315	114	-.383	.112	-.109	-.884
300	350	-.055	.120	-.111	-.111	300	400	-.195	.079	-.020	-.570	315	115	-.426	.110	-.131	-.867
300	351	-.099	.120	-.111	-.111	300	401	-.195	.143	-.110	-.871	315	116	-.367	.078	-.067	-.690
300	352	-.099	.120	-.111	-.111	300	402	-.168	.103	-.777	-.141	315	117	-.127	.061	-.161	-.387
300	353	-.099	.120	-.111	-.111	300	403	-.199	.045	-.007	-.386	315	118	-.017	.067	-.291	-.281
300	354	-.137	.142	-.111	-.111	300	404	-.209	.047	-.027	-.405	315	119	.020	.066	.327	-.253
300	355	-.169	.142	-.111	-.111	300	405	-.251	.043	-.133	-.447	315	120	.067	.073	.426	-.183
300	356	-.199	.199	-.111	-.111	300	406	-.324	.044	-.125	-.455	315	121	.109	.090	.391	-.156
300	357	-.199	.199	-.111	-.111	300	407	-.324	.049	-.117	-.489	315	122	.145	.105	.487	-.169
300	358	-.146	.222	-.111	-.111	300	408	-.255	.055	-.115	-.690	315	123	.156	.118	.510	-.211
300	359	-.146	.222	-.111	-.111	300	409	-.280	.072	-.116	-.775	315	124	.254	.139	.638	-.111
300	360	-.139	.222	-.111	-.111	300	410	-.280	.080	-.128	-.931	315	125	.270	.145	.722	-.257
300	361	-.139	.222	-.111	-.111	300	411	-.265	.059	-.134	-.834	315	126	.154	.135	.716	-.338
300	362	-.227	.063	-.037	-.037	300	412	-.121	.075	-.410	-.171	315	127	-.087	.116	.381	-.468
300	363	-.227	.063	-.037	-.037	300	413	-.110	.078	-.400	-.232	315	128	-.348	.168	.871	-.186
300	364	-.227	.063	-.037	-.037	300	414	-.127	.076	-.405	-.157	315	129	-.273	.075	.042	-.583
300	365	-.331	.086	-.041	-.041	300	415	-.140	.073	-.438	-.132	315	130	-.278	.072	-.007	-.574
300	366	-.327	.084	-.039	-.039	300	416	-.194	.145	-.224	-.910	315	131	-.276	.069	-.037	-.560
300	367	-.306	.076	-.096	-.096	300	417	-.252	.136	-.151	-.901	315	132	-.270	.067	-.064	-.542
300	368	-.285	.071	-.066	-.066	300	418	-.271	.107	-.059	-.816	315	133	-.284	.084	-.064	-.769
300	369	-.285	.068	-.075	-.075	300	419	-.219	.077	-.039	-.579	315	134	-.298	.092	-.047	-.929
300	370	-.258	.061	-.078	-.078	300	420	-.155	.069	-.081	-.424	315	135	-.363	.104	-.072	-.983
300	371	-.137	.089	-.113	-.113	300	421	-.159	.133	-.136	-.817	315	136	-.418	.120	-.134	-.1017
300	372	-.134	.089	-.117	-.117	300	422	-.186	.107	-.985	-.118	315	137	-.365	.095	-.106	-.910
300	373	-.199	.125	-.119	-.119	300	423	-.193	.044	-.017	-.408	315	138	-.099	.067	-.205	-.302
300	374	-.233	.126	-.133	-.133	300	424	-.217	.046	-.032	-.484	315	139	-.089	.078	-.421	-.166
300	375	-.168	.152	-.111	-.111	300	425	-.227	.046	-.107	-.420	315	140	-.144	.086	-.490	-.099
300	376	-.193	.193	-.110	-.110	300	426	-.244	.043	-.126	-.449	315	141	-.197	.093	.569	-.067
300	377	-.208	.234	-.111	-.111	300	427	-.242	.046	-.103	-.487	315	142	-.240	.103	.599	-.040
300	378	-.180	.333	-.111	-.111	300	428	-.247	.033	-.064	-.389	315	143	-.296	.121	.674	-.037
300	379	-.154	.329	-.111	-.111	300	429	-.260	.069	-.090	-.693	315	144	-.304	.135	.705	-.097
300	380	-.146	.132	-.111	-.111	300	430	-.294	.088	-.062	-.908	315	145	-.421	.146	.890	-.022
300	381	-.119	.071	-.099	-.099	300	431	-.271	.078	-.047	-.781	315	146	-.437	.149	.894	-.002
300	382	-.092	.037	-.033	-.033	300	432	-.410	.038	-.032	-.890	315	147	-.279	.136	.686	-.146
300	383	-.067	.020	-.057	-.057	300	433	-.417	.123	-.015	-.873	315	148	-.009	.116	.440	-.463
300	384	-.068	.017	-.051	-.051	300	434	-.041	.092	-.252	-.577	315	149	-.347	.172	.974	-.279
300	385	-.044	-.044	-.044	-.044	300	435	-.091	.169	-.348	-.767	315	150	-.262	.092	.117	-.942
300	386	-.033	-.033	-.044	-.044	300	436	-.349	.084	-.087	-.724	315	151	-.266	.089	.047	-.899
300	387	-.074	-.074	-.074	-.074	300	437	-.261	.064	-.067	-.599	315	152	-.262	.084	.007	-.693
300	388	-.074	-.108	-.044	-.044	300	438	-.333	.109	-.007	-.790	315	153	-.239	.083	.049	-.618
300	389	-.251	.033	-.102	-.102	300	439	-.378	.092	-.158	-.730	315	154	-.264	.115	.055	-.1031

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	129	.288	.112	.089	-.839	3330	415	.034	.102	.485	-.508	3330	129	.288	.112	.089	-.839
3330	130	.292	.107	.042	-.831	3330	416	.096	.093	.488	-.299	3330	130	.292	.107	.042	-.831
3330	131	.288	.103	.020	-.892	3330	417	.366	.139	.007	-1.001	3330	131	.288	.103	.020	-.892
3330	132	.280	.098	.042	-.953	3330	418	.414	.144	.059	-1.016	3330	132	.280	.098	.042	-.953
3330	133	.338	.126	.002	-1.254	3330	419	.371	.116	.138	-.870	3330	133	.338	.126	.002	-1.254
3330	134	.405	.149	-.082	-1.320	3330	420	.270	.080	.091	-.618	3330	134	.405	.149	-.082	-1.320
3330	135	.457	.156	.102	-1.315	3330	421	.219	.076	.034	-.585	3330	135	.457	.156	.102	-1.315
3330	136	.507	.135	.117	-1.104	3330	422	.305	.150	.094	-1.009	3330	136	.507	.135	.117	-1.104
3330	137	.263	.115	.117	-.874	3330	423	.205	.119	.759	-.094	3330	137	.263	.115	.117	-.874
3330	138	.038	.097	.379	-.256	3330	424	.166	.050	.023	-.326	3330	138	.038	.097	.379	-.256
3330	139	.214	.112	.370	-.102	3330	425	.222	.065	.023	-.050	3330	139	.214	.112	.370	-.102
3330	140	.265	.120	.664	-.047	3330	426	.256	.077	.007	-.655	3330	140	.265	.120	.664	-.047
3330	141	.289	.115	.668	-.030	3330	427	.278	.084	.047	-.789	3330	141	.289	.115	.668	-.030
3330	142	.333	.122	.734	-.010	3330	428	.287	.092	.032	-.966	3330	142	.333	.122	.734	-.010
3330	143	.392	.135	.790	-.010	3330	429	.299	.106	.022	-1.140	3330	143	.392	.135	.790	-.010
3330	144	.411	.144	.836	-.005	3330	430	.306	.121	.000	-1.165	3330	144	.411	.144	.836	-.005
3330	145	.429	.147	.921	-.022	3330	431	.333	.129	.022	-1.221	3330	145	.429	.147	.921	-.022
3330	146	.252	.142	.711	-.307	3330	432	.297	.131	.044	-1.466	3330	146	.252	.142	.711	-.307
3330	147	.066	.144	.446	-.695	3330	433	.421	.128	.071	-.956	3330	147	.066	.144	.446	-.695
3330	148	.323	.126	.070	-.764	3330	434	.488	.126	.086	-.976	3330	148	.323	.126	.070	-.764
3330	149	.132	.220	.859	-.611	3330	435	.248	.210	.336	-.984	3330	149	.132	.220	.859	-.611
3330	150	.293	.123	.112	-1.163	3330	436	.021	.119	.409	-.508	3330	150	.293	.123	.112	-1.163
3330	151	.296	.117	.100	-.994	3330	437	.297	.086	.020	-.753	3330	151	.296	.117	.100	-.994
3330	152	.287	.106	.062	-1.002	3330	438	.189	.062	.050	-.499	3330	152	.287	.106	.062	-1.002
3330	153	.270	.102	.020	-.815	3330	439	.283	.112	.125	-.874	3330	153	.270	.102	.020	-.815
3330	154	.313	.123	.017	-.851	3330	440	.306	.080	.070	-.831	3330	154	.313	.123	.017	-.851
3330	155	.376	.136	.040	-1.166	3330	103	.299	.073	.050	-.663	3330	155	.376	.136	.040	-1.166
3330	156	.433	.172	.032	-1.338	3330	104	.410	.107	.067	-.993	3330	156	.433	.172	.032	-1.338
3330	157	.491	.173	.152	-1.433	3330	105	.339	.093	.032	-.670	3330	157	.491	.173	.152	-1.433
3330	158	.353	.137	.105	-.983	3330	106	.319	.097	.037	-.893	3330	158	.353	.137	.105	-.983
3330	159	.042	.090	.306	-.389	3330	107	.310	.120	.007	-.837	3330	159	.042	.090	.306	-.389
3330	160	.203	.100	.617	-.032	3330	108	.318	.126	.007	-1.170	3330	160	.203	.100	.617	-.032
3330	161	.339	.114	.683	-.082	3330	109	.316	.123	.017	-1.123	3330	161	.339	.114	.683	-.082
3330	162	.393	.123	.813	-.112	3330	110	.368	.131	.023	-.943	3330	162	.393	.123	.813	-.112
3330	163	.436	.131	.877	-.130	3330	111	.432	.143	.053	-1.187	3330	163	.436	.131	.877	-.130
3330	164	.462	.140	.903	-.117	3330	112	.481	.138	.142	-1.203	3330	164	.462	.140	.903	-.117
3330	165	.403	.134	.837	-.053	3330	113	.468	.109	.169	-.936	3330	165	.403	.134	.837	-.053
3330	166	.333	.141	.783	-.117	3330	114	.272	.093	.080	-.679	3330	166	.333	.141	.783	-.117
3330	167	.129	.153	.620	-.418	3330	115	.032	.083	.293	-.318	3330	167	.129	.153	.620	-.418
3330	168	.166	.170	.308	-.761	3330	116	.080	.090	.454	-.207	3330	168	.166	.170	.308	-.761
3330	169	.334	.160	.097	-.939	3330	117	.103	.090	.438	-.149	3330	169	.334	.160	.097	-.939
3330	170	.151	.176	.469	-.903	3330	118	.144	.094	.478	-.129	3330	170	.151	.176	.469	-.903
3330	171	.332	.121	.035	-.964	3330	119	.176	.099	.399	-.114	3330	171	.332	.121	.035	-.964
3330	172	.336	.117	.005	-.970	3330	120	.230	.113	.626	-.105	3330	172	.336	.117	.005	-.970
3330	173	.344	.124	.022	-1.026	3330	121	.263	.122	.673	-.107	3330	173	.344	.124	.022	-1.026
3330	174	.330	.116	.032	-1.008	3330	122	.260	.127	.667	-.266	3330	174	.330	.116	.032	-1.008
3330	175	.363	.123	.067	-1.061	3330	123	.128	.134	.366	-.420	3330	175	.363	.123	.067	-1.061
3330	176	.430	.168	.093	-1.498	3330	124	.104	.127	.263	-.636	3330	176	.430	.168	.093	-1.498
3330	177	.497	.191	.127	-1.360	3330	125	.343	.114	.020	-.817	3330	177	.497	.191	.127	-1.360
3330	178	.534	.190	.143	-1.366	3330	126	.370	.190	.943	-.336	3330	178	.534	.190	.143	-1.366

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3388	103	.229	.113	.143	-.724	345	153	-.348	.150	-.010	-1.157						
3389	104	-.279	.081	-.020	-.784	345	154	-.421	.165	-.037	-1.268						
3390	105	-.255	.070	-.032	-.607	345	155	-.541	.190	-.064	-1.503						
3391	106	-.316	.119	-.032	-.856	345	156	-.636	.220	-.173	-1.712						
3392	107	-.333	.088	-.044	-.719	345	157	-.506	.179	-.007	-1.476						
3393	108	-.351	.155	-.361	-1.073	345	158	-.182	.153	.337	-.953						
3394	109	-.339	.135	.141	-.920	345	159	.132	.118	.647	-.245						
3395	110	-.330	.159	.020	-1.124	345	160	.356	.125	.913	-.005						
3396	111	-.403	.173	-.040	-1.374	345	161	.373	.128	.827	.054						
3397	112	-.473	.165	-.064	-1.219	345	162	.405	.133	.851	.052						
3398	113	-.368	.161	-.192	-1.236	345	163	.409	.132	.897	.044						
3399	114	-.364	.133	-.226	-1.134	345	164	.361	.130	.878	.007						
400	115	-.355	.107	-.030	-.979	345	165	.279	.140	.814	-.345						
401	116	-.103	.106	.312	-.700	345	166	-.073	.148	.682	-.605						
402	117	-.088	.110	.542	-.246	345	167	-.265	.178	.324	-.942						
403	118	.146	.114	.638	-.201	345	168	-.552	.185	-.045	-1.155						
404	119	.154	.113	.647	-.220	345	169	-.548	.143	-.215	-1.029						
405	120	.165	.113	.754	-.200	345	170	-.423	.178	.392	-1.042						
406	121	.176	.114	.550	-.188	345	171	-.373	.149	.106	-1.362						
407	122	.211	.122	.665	-.201	345	172	-.371	.143	.049	-1.444						
408	123	.205	.129	.633	-.292	345	173	-.401	.159	-.017	-1.347						
409	124	.084	.133	.586	-.425	345	174	-.386	.149	.012	-1.248						
410	125	.154	.132	.321	-.721	345	175	-.441	.163	-.007	-1.339						
411	126	.418	.138	-.010	-1.005	345	176	-.575	.193	-.089	-1.558						
412	127	.584	.155	-.225	-1.154	345	177	-.575	.190	.171	-1.429						
413	128	.289	.273	1.163	-.579	345	178	-.457	.196	.007	-1.249						
414	129	-.363	.144	.153	-1.202	345	179	-.154	.149	.333	-.745						
415	130	-.362	.133	.099	-.943	345	180	.066	.108	.491	-.296						
416	131	-.378	.149	.022	-1.144	345	181	.260	.100	.644	.016						
417	132	-.373	.140	.020	-1.071	345	182	.321	.110	.751	.081						
418	133	-.456	.164	-.072	-1.130	345	183	.342	.115	.782	.095						
419	134	-.357	.182	-.141	-1.305	345	184	.337	.117	.787	.081						
420	135	-.608	.176	-.195	-1.334	345	185	.271	.111	.757	.007						
421	136	-.412	.142	-.054	-1.051	345	186	-.170	.122	.697	-.219						
422	137	-.048	.137	.422	-.548	345	187	-.014	.140	.497	-.516						
423	138	.186	.125	.621	-.169	345	188	-.310	.186	.246	-1.012						
424	139	.326	.132	.731	-.064	345	189	-.487	.171	.074	-1.204						
425	140	.351	.132	.779	-.007	345	190	-.488	.138	-.122	-1.072						
426	141	.337	.132	.832	-.020	345	191	-.359	.169	.231	-1.179						
427	142	.374	.136	.876	-.007	345	192	-.233	.119	.232	-.866						
428	143	.387	.140	.865	-.005	345	193	-.299	.118	.220	-.861						
429	144	.339	.146	.846	-.114	345	194	-.370	.167	-.009	-1.365						
430	145	.183	.143	.733	-.452	345	195	-.339	.135	-.025	-1.117						
431	146	-.129	.160	.337	-.794	345	196	-.350	.119	-.053	-.878						
432	147	-.454	.164	.002	-.932	345	197	-.358	.113	-.063	-.970						
433	148	-.531	.128	-.210	-1.017	345	198	-.347	.123	.000	-.887						
434	149	-.146	.284	.908	-.940	345	199	-.259	.124	.141	-.844						
435	150	-.374	.167	.047	-1.506	345	200	-.085	.099	.266	-.551						
436	151	-.360	.145	.015	-1.332	345	201	.069	.079	.410	-.164						
437	152	-.359	.155	.054	-1.350	345	202	.253	.086	.619	.055						

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

	TAP	CPNEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPNEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPNEAN	CPRMS	CPHAX	CPHIN
4444	303	.310	.095	.664	.090	345	312	.485	.129	-.136	-1.284	345	362	-.211	.047	-.083	-.385
4444	304	.324	.098	.709	.118	345	313	-.380	.095	-.061	-.719	345	363	-.209	.048	-.064	-.427
4444	305	.365	.658	.785	.102	345	314	-.268	.086	-.012	-.630	345	364	-.212	.061	-.044	-.547
4444	306	.214	.087	.580	-.028	345	315	-.224	.070	-.020	-.523	345	365	-.232	.083	-.031	-.692
4444	307	.100	.102	.476	-.282	345	316	-.198	.057	-.032	-.450	345	366	-.259	.105	-.017	-.806
4444	308	.061	.126	.403	.521	345	317	-.189	.053	-.037	-.425	345	367	-.288	.124	.007	-.882
4444	309	-.	.156	.160	.973	345	318	-.204	.061	-.039	-.733	345	368	-.297	.133	.063	-.948
4444	310	-.	.157	.002	-.076	345	319	-.223	.057	-.017	-.489	345	369	-.313	.156	.128	-1.223
4444	311	-.	.134	.081	-.024	345	320	-.226	.058	-.036	-.599	345	370	-.323	.153	-.010	-1.141
4444	312	-.	.144	.327	.869	345	321	-.234	.059	-.039	-.467	345	371	-.303	.150	-.173	-1.168
4444	313	-.	.054	.662	.667	345	322	-.232	.067	-.029	-.599	345	372	-.309	.152	-.175	-1.172
4444	314	-.	.184	.559	.794	345	323	-.243	.074	.000	-.657	345	373	-.340	.148	-.194	-1.297
4444	315	-.	.158	.312	-.191	345	324	-.242	.090	.000	-.858	345	374	-.341	.152	-.049	-1.093
4444	316	-.	.357	.019	-.223	345	325	-.246	.107	.133	-.823	345	375	-.429	.124	-.066	-.911
4444	317	-.	.350	.665	.885	345	326	-.265	.120	.136	-.832	345	376	-.270	.085	-.017	-.678
4444	318	-.	.309	.023	.746	345	327	-.302	.126	.103	-.811	345	377	-.205	.068	-.017	-.811
4444	319	-.	.290	.089	.738	345	328	-.398	.173	-.046	-1.420	345	378	-.217	.067	-.027	-.638
4444	320	-.	.233	.197	.660	345	329	-.509	.130	.133	-1.092	345	379	-.224	.067	-.032	-.558
4444	321	-.	.053	.333	.447	345	330	-.590	.132	-.229	-1.326	345	380	-.225	.064	-.057	-.602
4444	322	-.	.101	.508	.162	345	331	-.703	.191	-.261	-1.637	345	381	-.237	.059	-.081	-.498
4444	323	-.	.268	.758	.074	345	332	-.527	.186	-.270	-1.155	345	382	-.233	.053	-.072	-.421
4444	324	-.	.230	.900	.090	345	333	-.496	.127	-.140	-1.084	345	383	-.217	.050	-.069	-.420
4444	325	-.	.324	.778	.063	345	334	-.364	.112	-.058	-.813	345	384	-.215	.057	-.032	-.472
4444	326	-.	.342	.783	.074	345	335	-.227	.068	-.044	-.628	345	385	-.237	.079	.059	-.684
4444	327	-.	.338	.823	.079	345	336	-.204	.059	-.053	-.518	345	386	-.291	.112	.022	-.819
4444	328	-.	.333	.836	.123	345	337	-.191	.053	-.044	-.620	345	387	-.315	.131	.020	-1.094
4444	329	-.	.352	.846	.118	345	338	-.193	.054	-.023	-.433	345	388	-.312	.126	.064	-1.173
4444	330	-.	.322	.797	.097	345	339	-.207	.048	-.076	-.420	345	389	-.294	.127	.029	-.931
4444	331	-.	.246	.628	.016	345	340	-.218	.049	-.073	-.416	345	390	-.324	.134	.082	-1.022
4444	332	-.	.119	.508	.249	345	341	-.226	.053	-.058	-.433	345	391	-.361	.137	-.054	-1.037
4444	333	-.	.042	.382	.613	345	342	-.230	.059	-.073	-.463	345	392	-.335	.123	-.064	-.932
4444	334	-.	.132	.287	.956	345	343	-.240	.070	-.046	-.572	345	393	-.429	.133	-.157	-1.056
4444	335	-.	.148	.083	-.054	345	344	-.243	.080	-.046	-.700	345	394	-.487	.160	-.096	-1.232
4444	336	-.	.124	.023	.046	345	345	-.240	.093	-.003	-.900	345	395	-.366	.143	-.151	-.931
4444	337	-.	.063	.610	.677	345	346	-.252	.107	-.034	-1.156	345	396	-.395	.110	-.005	-.880
4444	338	-.	.195	.353	.781	345	347	-.281	.118	.049	-1.202	345	397	-.328	.111	-.027	-.809
4444	339	-.	.084	.032	.866	345	348	-.318	.137	-.112	-1.021	345	398	-.261	.084	-.027	-.811
4444	340	-.	.060	.058	.484	345	349	-.356	.132	-.029	-1.130	345	399	-.231	.083	-.059	-.810
4444	341	-.	.132	.063	.936	345	350	-.369	.130	-.214	-1.061	345	400	-.264	.092	-.042	-.784
4444	342	-.	.142	.174	.036	345	351	-.584	.131	-.234	-1.087	345	401	-.267	.087	-.042	-.823
4444	343	-.	.137	.170	.051	345	352	-.595	.153	-.216	-1.116	345	402	-.110	.103	.430	-.438
4444	344	-.	.174	.173	.456	345	353	-.586	.150	-.002	-1.089	345	404	-.139	.078	.079	-.484
4444	345	-.	.174	.226	.498	345	354	-.447	.125	-.080	-.893	345	405	-.201	.076	.054	-.667
4444	346	-.	.143	.132	.823	345	355	-.270	.078	-.022	-.591	345	406	-.293	.122	.084	-.898
4444	347	-.	.221	.733	.235	345	356	-.205	.069	-.024	-.513	345	407	-.303	.117	-.002	-1.055
4444	348	-.	.188	.112	.387	345	357	-.189	.057	-.015	-.491	345	408	-.299	.120	.101	-1.101
4444	349	-.	.161	.163	.622	345	358	-.194	.054	-.041	-.458	345	409	-.295	.134	.100	-1.069
4444	350	-.	.184	.330	.406	345	359	-.203	.052	-.042	-.454	345	410	-.319	.148	.069	-1.205
4444	351	-.	.334	.548	.373	345	360	-.215	.049	-.088	-.447	345	411	-.305	.129	.022	-.926
4444	352	-.	.794	.994	.889	345	361	-.214	.049	-.092	-.421	345	412	-.306	.100	-.057	-.769

TOWN CENTER PROJECT -- PHASE 2 -- SOUTHFIELD MICHIGAN

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	413	-.380	.136	-.066	-1.015	345	421	-.227	.075	-.029	-.620	345	434	-.316	.147	.039	-1.269
345	414	-.439	.160	-.111	-1.296	345	422	-.252	.078	-.045	-.641	345	435	-.342	.157	.152	-1.301
345	415	-.409	.206	.341	-1.168	345	423	-.076	.130	.536	-.506	345	436	-.324	.130	.141	-.992
345	416	-.182	.220	.538	-.922	345	427	-.099	.093	.321	-.425	345	437	-.346	.139	.000	-1.072
345	417	-.390	.129	-.056	-.941	345	430	-.180	.079	.150	-.789	345	438	-.640	.184	.005	-1.379
345	418	-.358	.123	-.064	-.923	345	431	-.261	.107	-.012	-.848	345	439	-.605	.153	-.015	-1.118
345	419	-.269	.093	-.035	-.783	345	432	-.291	.123	-.030	-1.086	345	440	-.663	.156	-.109	-1.229
345	420	-.234	.078	-.061	-.580	345	433	-.296	.130	.015	-1.195	345	441	-.361	.153	.079	-1.003