

**WIND TUNNEL VELOCITY MEASUREMENT REPORT
FOR SAFETY AND HAZARD ANALYSIS**

**CPP PROJECT 18466
19 DECEMBER 2024**



PERRIS AIRPORT LOGISTICS CENTER
Perris, California

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EXECUTIVE SUMMARY

This report documents the wind-tunnel study conducted by CPP, Inc. on behalf of CH Realty-IX-MC I Riverside Perris Airport Center, LP for the Perris Airport Logistics Center (“Project”) in Perris, California, to assess the potential impact of the Project on the Perris Valley Airport (“Airport”) runway and nearby skydiving landing zones with respect to ongoing aviation and recreation uses. The Project consists of two buildings and associated trailer storage areas on both east and west sides of the runway. Building 1 is a Type III-B fully sprinklered B/S1/F1 occupancy 795,000 SF floor area structure and Building 2 is a Type III-B fully sprinklered B/S1/F1 occupancy 82,000 SF floor area structure. The total site area for the Project is approximately 60 acres for Building 1 and Building 2, with approximately 23 acres of additional area for trailer storage. Three Project conditions were evaluated including two alternatives: the Project, a reduced alternative Project, and a maximum alternative Project. Specific layouts for each condition are provided in the report. Additionally, a cumulative condition was evaluated that includes (1) existing structures, (2) the Project, and (3) other future planned surrounding projects. To meet the objectives of the study, a 1:750 scale model of the Project site and nearby surroundings within a 4,250 ft radius was constructed and placed in CPP’s boundary-layer wind tunnel (Figure 5). Two distinct approach boundary layers with appropriate mean profile and turbulence characteristics were established in the test section of the wind tunnel to model upstream conditions for nine wind directions at the study site. These wind directions included approach/departure headings for the Perris Valley Airport runway as well as common wind directions over existing site structures to provide comparison with the proposed development.

Using an omni-directional velocity probe, mean (average) wind speed, direction, and turbulence measurements were collected along the primary runway path as well as two cross sections through each of the high-performance landing zone (HPLZ) and the student landing zone (SLZ) to evaluate impacts to Airport and recreational skydiving activities, respectively. A grade level point at the north end of the runway was selected as the reference height at 1,424 ft MSL. Measurements were taken at 25 ft, 50 ft, 100 ft, 150 ft, and 250 ft above this height at each location. Landing zone areas along with locations and heights of each data point are illustrated in Figure 6.

This report includes a discussion of the experimental methods and the test results. A summary of testing parameters is provided in Table ES-1. Data are presented in Figure 7 through Figure 32 for the existing versus Project case and are further described in Sections 4 and 6. General information, including description of the local wind climate, is given in Appendix A. Data tables from which the wind velocity and turbulence plots were generated are included in Appendix B. Furthermore, supporting graphical depiction of the cumulative Project condition, reduced alternative Project, and maximum alternative project are included for reference in Appendix C to fulfill California Environmental Quality Act (CEQA) requirements.

The wind tunnel measured velocity data has been compared with published vertical gust and airspeed fluctuation intensity classifications for a representative 25 knot wind speed at 10m above ground level at the Perris Valley Airport site. Refer to Section 4 for additional information.

SUMMARY OF FINDINGS:

- Results of the analysis showed that wind speed variation and turbulence intensity with the Project was less than conditions without the Project at existing locations along the runway and adjacent to the parachute landing zones (HPLZ and SLZ). These findings were consistent across all measured wind directions with the exception of one measurement location where a fractional increase in turbulence intensity above existing conditions was measured and observed. The amount of this increase, however, was de minimis in nature and only occurred under a specific directional condition (235.5 degrees, or from the southwest) that the historical wind data indicates is rarely, if ever, observed at the Airport.
- Although slight increases in turbulence intensity were measured at the north end of the runway and the HPLZ for wind directions between 212 degrees and 302 degrees, the magnitude of the turbulence intensity was less than the conditions measured at existing runway locations and the SLZ currently impacted by existing Airport structures. Further, the HPLZ located east of the north end of the runway, and aforementioned measurement locations, would not be materially affected by these de minimis increases in turbulence intensity which, as noted, are less than the conditions measured at existing runway locations, including those situated closer to the SLZ.

Table ES-1: Summary of Test Parameters

<i>General Information</i>	
Model scale	1:750
Surrounding model radius (full-scale)	4,250 ft
Reference height (full-scale)	2,461 ft (750m)
Mean wind speed profile (Power Law exponents)	Light roughness approach: ($n = 0.17$) for 20° (NE) through 239° (SE), clockwise Moderate roughness approach: ($n = 0.19$) for 240° (SE) through 20° (NE), clockwise
Structure heights (average above grade)	49 ft (Building 1), 43 ft (Building 2), 14 ft (Trailers in Storage Area)
<i>Measurement Parameters</i>	
Measurement locations	100 total test points at 20 plan view locations: 8 locations along the main runway 6 locations across the HPLZ 6 locations across the SLZ 5 heights above each location: (25 ft, 50 ft, 100 ft, 150 ft, and 250 ft above 1,424' MSL)
Wind directions evaluated	32°, 167°, 212°, 234.5°, 257°, 279.5°, 302°, 324.5°, 347°
<i>Testing Configurations</i>	
Configuration A	Existing site with surrounding buildings, without the Project, as shown in Figure 6a.
Configuration B	Future site with the Project, as shown in Figure 6b.
Configuration C	Cumulative projects with existing surrounding buildings, the Project, and additional surrounding future projects, as shown in Figure 6c.
Configuration D	Future site with reduced alternative Project, as shown in Figure 6d.
Configuration E	Future site with maximum alternative Project, as shown in Figure 6e.

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1. INTRODUCTION

The proposed Perris Airport Logistics Center development is planned to be located adjacent to the north end of Runway 15/33 and the high-performance parachute landing zone (HPLZ). The south end of Runway 15/33 and the student parachute landing zone (SLZ) is separated from the Project by the existing Perris Valley Airport aircraft hangars, facilities, and other adjacent buildings. In order to evaluate the potential effects of the Project on the conditions over the flight path and landing zones, testing was conducted to measure the wind behavior over the runway and each landing zone both with and without the Project in place. This report presents comparison results between the following configurations: existing site conditions (Configuration A), the site including the Project (Configuration B), a cumulative scenario that includes (1) existing structures, (2) the Project, and (3) other future planned surrounding cumulative projects (Configuration C), the site including the maximum alternative Project (Configuration D), and the site including the reduced alternative Project (Configuration E).

Techniques have been developed which permit using boundary layer wind tunnel modeling to determine wind conditions at a site. All data collection was performed in accordance with American Society of Civil Engineers (ASCE) Standard 7-22 (2021), ASCE Manual of Practice Number 67 on Wind Tunnel Studies of Buildings and Structures (1999), and ASCE Standard 49-21 on Wind Tunnel Testing of Buildings and Other Structures (2021).

This report includes a discussion of the experimental methods and the test results. Supplemental information pertaining to the methodology and results can be found in the appendices.

2. MEASUREMENT METHODOLOGY

In order to evaluate the characteristics of the flight path and landing zone wind conditions, wind speeds were measured over a 1:750 scale model of the Perris Valley Airport and its surroundings. The area of interest was modeled on a turntable and tested in one of CPP's boundary layer wind tunnels as shown in Figure 5.

Measurements were obtained for nine approach wind directions: 32°, 167°, 212°, 234.5°, 257°, 279.5°, 302°, 324.5°, and 347°, where winds from 0° are defined as originating *from the north*, and winds from 90° are defined as originating *from the east*. The specific wind directions were selected based on predominant wind directionality and approach paths for the Perris Valley Airport. All approach wind directions are based on true north, not magnetic north. A wind rose based on data collected from the nearby March Air Reserve Base is included for reference in Appendix A. This data was collected from 2006 to 2023 and has been selected based on the quality, completeness, and proximity to the Perris Valley Airport. The March Air Reserve Base is located approximately 7 miles north-northwest of the Perris Valley Airport.

To accurately represent full scale wind profiles in the wind tunnel it is necessary to match the surface roughness length used in the model to that of the actual site. The surface roughness length for the approach to the site was specified using AERSURFACE (EPA, 2008) and aerial photographs. AERSURFACE uses land cover data from the U.S. Geological Survey (USGS) National Land Cover Data archives and computes weighted averages of surface roughness lengths for a specified radius. The AERSURFACE-predicted surface roughness was then compared to an estimated roughness using current aerial photographs. If they disagree, the AERSURFACE-predicted roughness was corrected accordingly.

Based on this analysis out to a radius of 3 km, two approach boundary layers with unique mean profile and turbulence characteristics were established in the test section of the wind tunnel to model upstream conditions across the nine wind directions evaluated in this study. A target approach surface roughness length of 0.17 m was applied for wind directions between 20° and 239° (measured clockwise) to model an undeveloped open land approach. A target surface roughness length of 0.25 m was applied for wind directions between 240° and 19° (measured clockwise) to model a built-up suburban environment. The smoother surface displays a more rapid decrease in turbulence, and increase in streamwise velocity, with height than the rougher surface, in undisturbed flow.

Mean (time-averaged) wind speed, wind direction, and turbulence measurements were collected at multiple locations adjacent to the proposed development to characterize the wind conditions with (Configuration B) and without (Configuration A) the proposed buildings. Additionally, a cumulative (Configuration C) case was evaluated which included additional surrounding future buildings, along with a reduced alternative Project (Configuration D) and maximum alternative Project (Configuration E).

Measurement points were specified in a vertical grid along the landing corridors for both aircraft and parachute operations at elevations above 1,424 ft MSL, which corresponds to grade level elevation at the runway north end as indicated in Figure 6. Measurements at heights of 25 ft, 50 ft, 100 ft, 150 ft, and 250 ft above this reference height were taken at each letter-designated location (A-T) as depicted in Figure 6.

To model the extents of the Project area and prevent measurement uncertainties at the edges of the model, a 1:750 model scale was selected. A building Reynolds number of 8,645 was calculated based on the building height and reference wind speed used for the scaled testing. Although this results in a calculated building Reynolds number lower than the ASCE 49-21 minimum value of 11,000, the presence of additional roughness elements on

the model surface and development of the atmospheric boundary layer (ABL) approach result in the creation of the requisite turbulence structures upstream of the test building.

The critical building Reynolds number indicated in ASCE 49-21 is based on research by Golden (1961). Golden's values were based on measurements on a cube in uniform flow and have since been applied to all building shapes regardless of boundary layer consideration. While a critical Reynolds number of 11,000 is mentioned as a useful and conservative value for design purposes by Snyder (1981), they continue that additional research points to acceptability of considerably lower critical Reynolds number values down to 4,000 in turbulent upstream boundary-layer flows. Furthermore, the sharp-edged building geometry, deep boundary layer approach, and measurement locations restricted to areas away from the building surface result in the acceptability of lower Reynolds number values according to Halitzky (1968).

No correction measures have been employed due to the considerations of the Reynolds number similarity described above.

Table 1 provides a brief description of the measurement locations illustrated in plan view in Figure 6. Measurement locations designated HPLZ 1 and SLZ 1 are located along the midline of each landing zone while HPLZ 2 and SLZ 2 are located along the eastern edge of each zone approximately 330 ft to the east, representing the United States Parachute Association (USPA) drop zone requirements, unobstructed safety area for solo student skydivers and A-license holders. The USPA drop zone safety areas for B and C-license holders is 165 ft and D-license holders is 40 ft. The HPLZ at Perris Valley Skydiving is restricted to a minimum of C-license holders and 500 jumps but the more conservative solo student safety area is applied for this wind analysis. The measurement lanes were laid out to characterize and quantify the effect of the proposed development over a reasonable width of the landing zones.

Table 1: Measurement Locations

Landing Zone, Location Letter Designations	Location Numbers	Measurement Elevation (above 1,424' MSL)	Landing Zone, Location Letter Designations	Location Numbers	Measurement Elevation (above 1,424' MSL)
Runway A-H	101-108	25 ft	SLZ 1 O-Q	401-403	25 ft
	111-118	50 ft		411-413	50 ft
	121-128	100 ft		421-423	100 ft
	131-138	150 ft		431-433	150 ft
	141-148	250 ft		441-443	250 ft
HPLZ 1 I-K	201-203	25 ft	SLZ 2 R-T	501-503	25 ft
	211-213	50 ft		511-513	50 ft
	221-223	100 ft		521-523	100 ft
	231-233	150 ft		531-533	150 ft
	241-243	250 ft		541-543	250 ft
HPLZ 2 L-N	301-303	25 ft			
	311-313	50 ft			
	321-323	100 ft			
	331-333	150 ft			
	341-343	250 ft			

3. METEOROLOGY FOR SAFETY AND HAZARD ANALYSIS

For prediction of prevailing wind directions, data from the nearby March Air Reserve Base were used to determine the joint probability density of wind speed and wind direction, called a wind rose. The wind rose is shown in Figure 1 and includes data from 2006 to 2023, collected at 33 ft (10 m) above the ground. The nine approach wind directions evaluated are also indicated for reference.

Figure 2 shows the cumulative frequency distribution of wind speed at the March Air Reserve Base anemometer for the nine approach wind directions evaluated. The wind speed distribution was also used to determine the wind speed at the anemometer that is exceeded 1% of the time (i.e., the 1% wind speed). The figure shows that the 1% wind speed is approximately 10.0 m/s (22.4 mph) at the anemometer.

To confirm directionality and wind speed probabilities from the nearby March Air Reserve Base and their applicability to site conditions at Perris Valley Airport, a survey of wind roses at nearby citizen weather observer stations was conducted (SE912, SE961, and SE966). The surrounding stations show similar trends despite the caveat that these private weather monitoring stations are usually not well sited and often in building shelter/wake zones. Based on this survey, local topography, and data quality at March Air Reserve Base, the wind data from this anemometer is recommended for use for the Perris Valley Airport wind tunnel velocity measurement analysis.

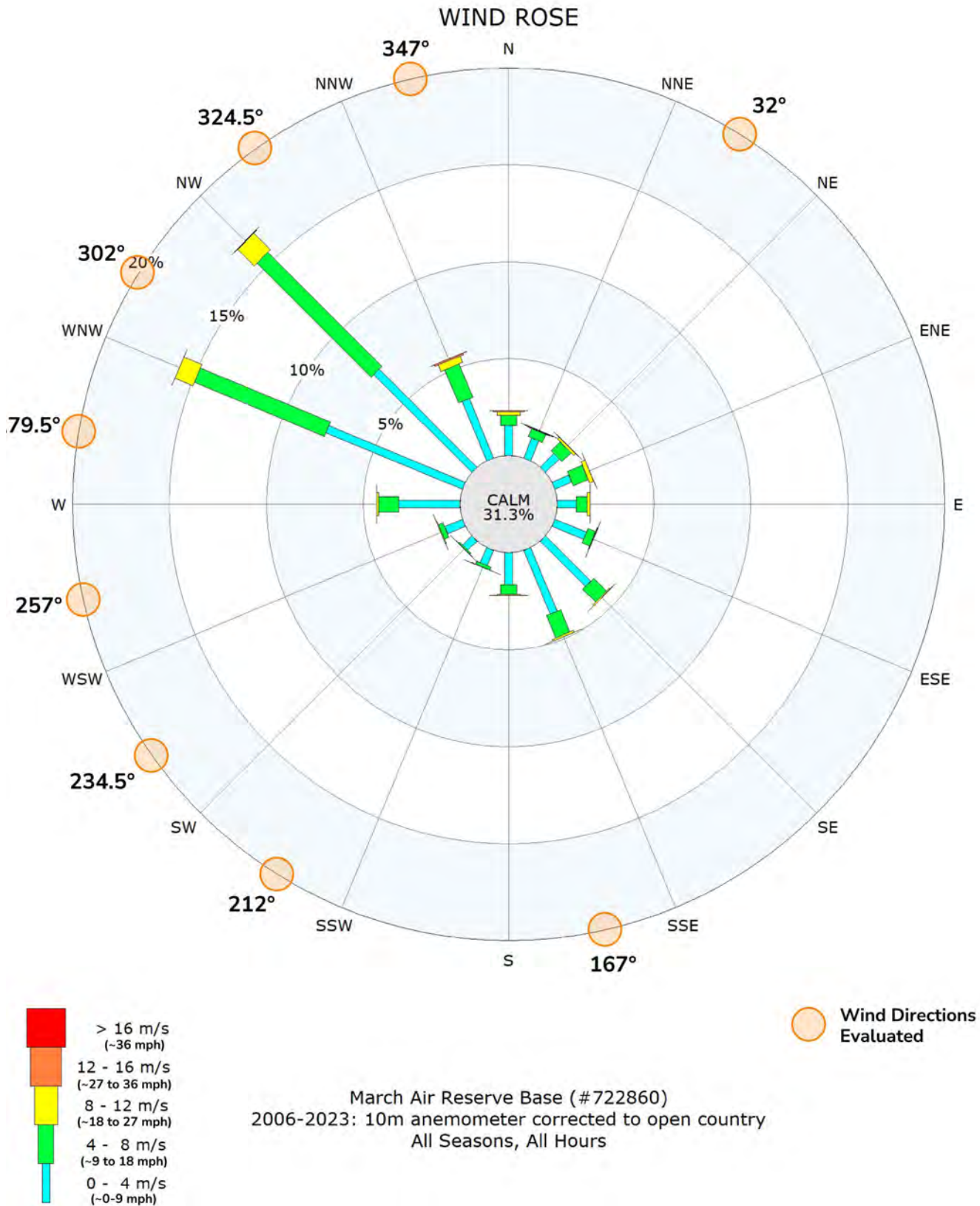
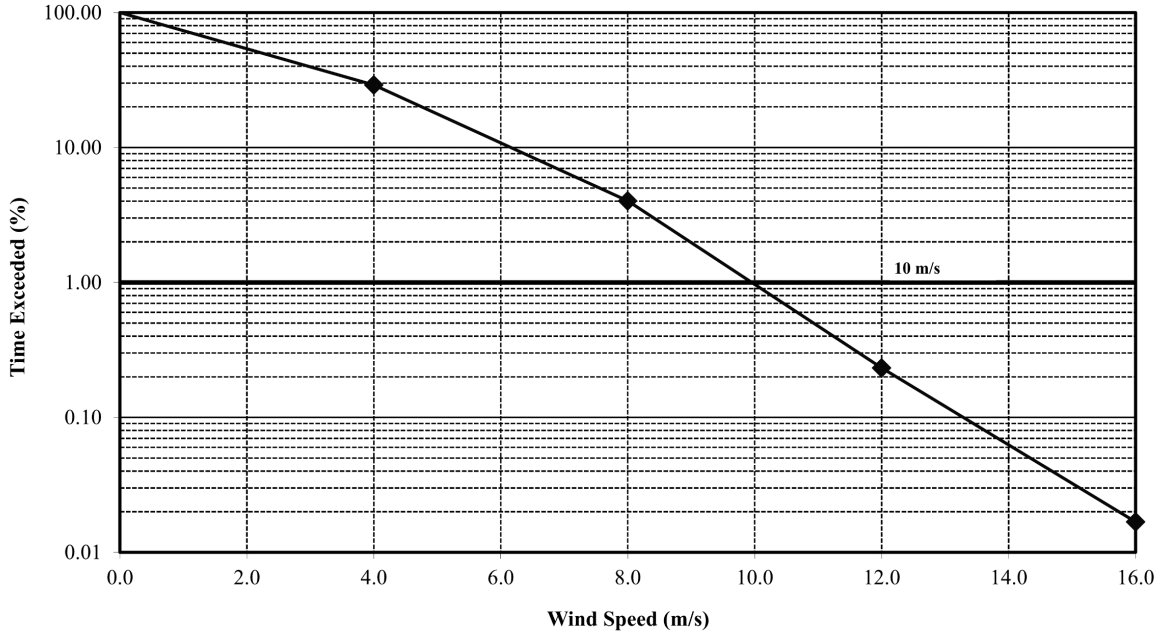


Figure 1: March Air Reserve Base wind rose showing probability of occurrence of wind speed by direction.

1% Wind Speed Analysis
March Air Reserve Base (#722860)
 2006-2023: 10m anemometer corrected to open country



Joint Probability Distribution of Wind Speed and Wind Direction at the March Air Reserve Base (#722860) Anemometer

Category: Maximum Wind Speed (m/s):	1 4.0	2 8.0	3 12.0	4 16.0	5 >16	Totals by Direction (%)
Wind Direction (Deg.)						
9.5	1.258	0.431	0.101	0.028	0.003	1.820
32	1.045	0.515	0.068	0.006	0.000	1.635
54.5	0.982	0.794	0.191	0.010	0.001	1.978
77	0.912	0.725	0.213	0.019	0.001	1.871
99.5	1.233	0.429	0.104	0.009	0.000	1.775
122	2.423	0.572	0.023	0.000	0.000	3.018
144.5	3.768	1.208	0.082	0.004	0.000	5.061
167	2.746	0.941	0.089	0.005	0.001	3.782
189.5	1.122	0.295	0.028	0.001	0.000	1.446
212	0.711	0.104	0.007	0.000	0.000	0.823
234.5	0.762	0.121	0.019	0.000	0.000	0.902
257	1.551	0.419	0.077	0.000	0.000	2.047
279.5	5.242	2.665	0.337	0.004	0.000	8.248
302	8.278	10.164	1.456	0.010	0.000	19.907
324.5	5.441	4.778	0.674	0.038	0.003	10.933
347	2.196	0.883	0.321	0.080	0.009	3.488
Calm	31.300					
Totals by Category (%):	70.969	25.043	3.790	0.215	0.017	100
Time Exceeded (%):	29.065	4.022	0.233	0.017	0.000	

Figure 2: Percent time indicated wind speed is exceeded at the March Air Reserve Base anemometer.

4. TURBULENCE INTENSITY CLASSIFICATION

Based on published vertical gust and airspeed fluctuation intensity, the following values have been used to determine a turbulence intensity classification for aircraft and parachute operation at Perris Valley Airport.

Vertical Gust Intensity			
	(m/s)	(fpm)	(fps)
Light	1.5	295	5
Moderate	6.1	1201	20
Severe	10.6	2087	35
Extreme	15.2	2992	50

Airspeed Fluctuation Intensity	
	(kt/s)
Light	5
Moderate	15
Severe	25
Extreme	>>25

Figure 3: Vertical Gust Intensity and Airspeed Fluctuation Intensity. (BOM-AG 2014)

A representative 25 knot wind at 10 m above local grade has been applied to provide a comparison of the relative conditions for each configuration. The resulting values are tabulated adjacent to the wind tunnel velocity measurements in Appendix B.

5. DATA COLLECTION

Measurements of along-wind (U) mean velocities, made using a directional velocity probe, were normalized against a reference wind speed (U_{ref}) at a height equivalent to 2,461 ft at full-scale. So for example, a U/U_{ref} value of 0.8 would indicate that the expected wind speed at the specific measurement location would be 8 m/s (15.6 knots or 18 miles per hour) given a full-scale U_{ref} wind speed of 10 m/s (19.4 knots or 22.4 miles per hour) at 2,461 ft elevation. Similar ratios were determined for the normalized crosswind (V/U_{ref}) and vertical (W/U_{ref}) mean velocity components, as measured relative to the approach wind direction.

Turbulence measurements are presented in the form of a turbulence intensity that combines the fluctuating components of all three wind directions (along-wind, crosswind, and vertical). This value is normalized by the resultant mean wind velocity ($|UVW|$). A depiction of the relationship between wind direction and U/V/W components is included below for reference. This is commonly referred to as the right-hand rule based on the diagram below:

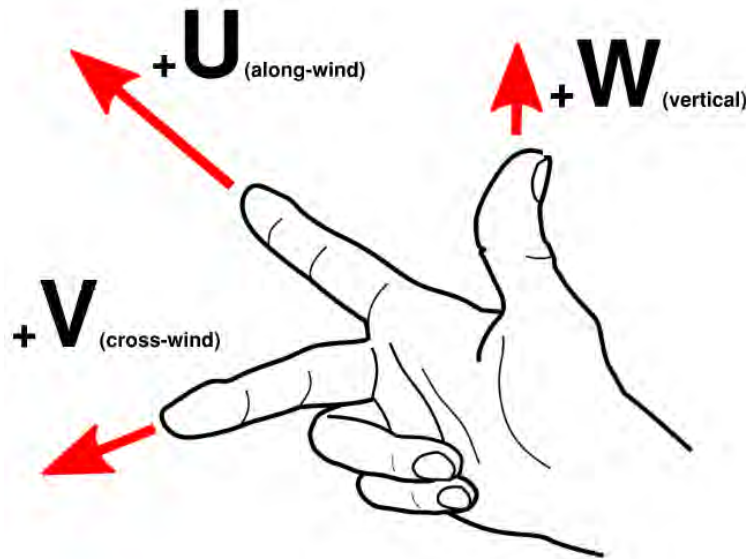


Figure 4: U/V/W Flow Component Orientation.

Both velocity and turbulence measurements are reported as non-dimensional ratios (percentages). Directional U, V, and W turbulence intensity quantities have been computed and are provided in Appendix B. The directional turbulence intensities express the individual along-wind, crosswind, and vertical turbulence components relative to the resultant mean velocity, $|UVW|$.

6. RESULTS

The measurement results for the existing and with-Project configurations evaluated are presented in Figure 7 through Figure 26 as a series of normalized wind velocity and turbulence intensity plots organized by landing zone. Each of the figures includes results for the nine wind directions tested.

At the runway locations evaluated, the along-wind mean velocities (U/U_{ref}) near the Project are reduced in magnitude at measurement points below 100 ft above grade level (AGL) for wind directions between 212° and 302° , measured clockwise as compared to the existing conditions without the Project. Results for the HPLZ and SLZ displayed similar trends as those for the runway, with a general decrease in effect observed at the parachute landing zones further south and east. The magnitude of these velocity reductions is less than the values observed for the existing conditions at the southern end of the runway across all measured wind directions.

Differences between configurations were also observed for the normalized crosswind (V/U_{ref}) and vertical (W/U_{ref}) mean velocity components at the 212° to 302° wind directions. In each wind direction case, the resulting magnitude of the crosswind and vertical mean velocity with the Project in place is less than the existing conditions observed at the southern end of the runway.

A similar result was observed for the turbulence intensities evaluated for the existing site and the Project configurations. Increases in turbulence intensity were measured at the north end of the runway for wind directions between 212° and 302°, however, the magnitude of the turbulence was less than the existing conditions measured at other runway locations.

With the cumulative projects in place, wind conditions along the runway were found to generally experience a reduction in longitudinal (U -direction) mean velocities up to 15% of U_{ref} and increases in turbulence intensities up to 44% on a relative basis, or up to 8 percentage points on an absolute basis. The relative basis being a measure of the difference in turbulence relative to the magnitude of existing conditions, while the absolute basis is the difference between the turbulence intensity with and without the Project. These differences in velocity and turbulence are caused by the presence of the Project and are expected to occur when an upstream disturbance is present. The relative size, distance, and configuration of the upstream disturbance is directly related to impacts at the measurement locations. Effects were most pronounced along roughly the northern half of the runway, at the lowest two measurement locations (25 ft and 50 ft), and in the wind direction band between approximately 212° and 302°, corresponding to locations directly downstream of the largest new structure. Lateral and vertical mean velocities remained small and variably affected by the presence of the Project. In general, absolute measures of the parameters remained within the limiting bounds of each, which are established by the existing structures on site.

Results for the HPLZ and SLZ displayed similar trends as those described above, and the magnitude of impact was observed to generally decrease at the landing zones further south and east. Longitudinal mean velocity reductions of up to 9% of U_{ref} were observed at both HPLZ landing zones, while reductions up to 8% and 5% of U_{ref} were observed at SLZ 1 and SLZ 2, respectively. Changes in flow conditions were again primarily restricted to the lowest two measurement heights of 25 ft and 50 ft, however, noticeable change was observed up to at least 100-150 ft along both HPLZ 1 and HPLZ 2 for winds from 257° and 279.5°. These results are further depicted in Figure 11 through Figure 26 indicating the differences between the existing site conditions and measured values with the Project in place.

Changes in turbulence intensities displayed similar characteristics at HPLZ 1, HPLZ 2, and SLZ 1, for which maximum increases of up to 33% were observed on a relative basis (5% on absolute basis). These changes were found to be smaller at SLZ 2, where a maximum of 20% relative increase (3 percentage points absolute increase) was observed. Further evaluation of the impact of the Project is possible with definition a threshold of significance for the activities at Perris Valley Airport. The measurements collected during this analysis shall be evaluated from an aviation safety standpoint to draw further conclusions relating to presence of the Project as compared with the existing site conditions.

Graphical comparisons of the resulting turbulence intensities for the specific $U/V/W$ directions at both 25 ft and 50 ft heights above grade level are included in Figure 27 through Figure 32. The existing maximum turbulence intensity for each $U/V/W$ component is indicated as a solid line for reference between the existing and Project cases. This line indicates that the existing turbulence intensity at the south end of the runway is greater than or equal to any resulting increase at north end of the runway or parachute landing zones due to the presence of the Project.

The future cumulative configuration including other proposed buildings surrounding the airport area exhibited similar behavior to the Project configuration, with the exception of the south end of the Project site where the future projects are more closely positioned to the runway area. Only the 301.9° wind direction was

observed to have a turbulence intensity increase above that of the highest magnitude existing condition across all wind directions. These results are tabulated in Appendix B and graphically depicted in Appendix C along with the results for the reduced alternative Project and maximum alternative Project for CEQA consideration.

Overall, the wind conditions over the runway and parachute landing zones are not impacted due to the proposed Project at levels greater than measured conditions at existing areas.

REFERENCES

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- Snyder, W.H., 1981: *Guidelines for Fluid Modeling of Atmospheric Diffusion*. Rep. EPA-600/8-81-009. Washington, DC: US EPA.

FIGURES



Figure 5: Photographs of the model in the wind tunnel as viewed from the northwest, simulating southeasterly winds over the existing site (top—Configuration A) and the future site (bottom—Configuration B) with the proposed development in dark grey. Note the spires and trip at the entrance to the test section, and roughness elements on the approach fetch used to develop a turbulent boundary layer flow.

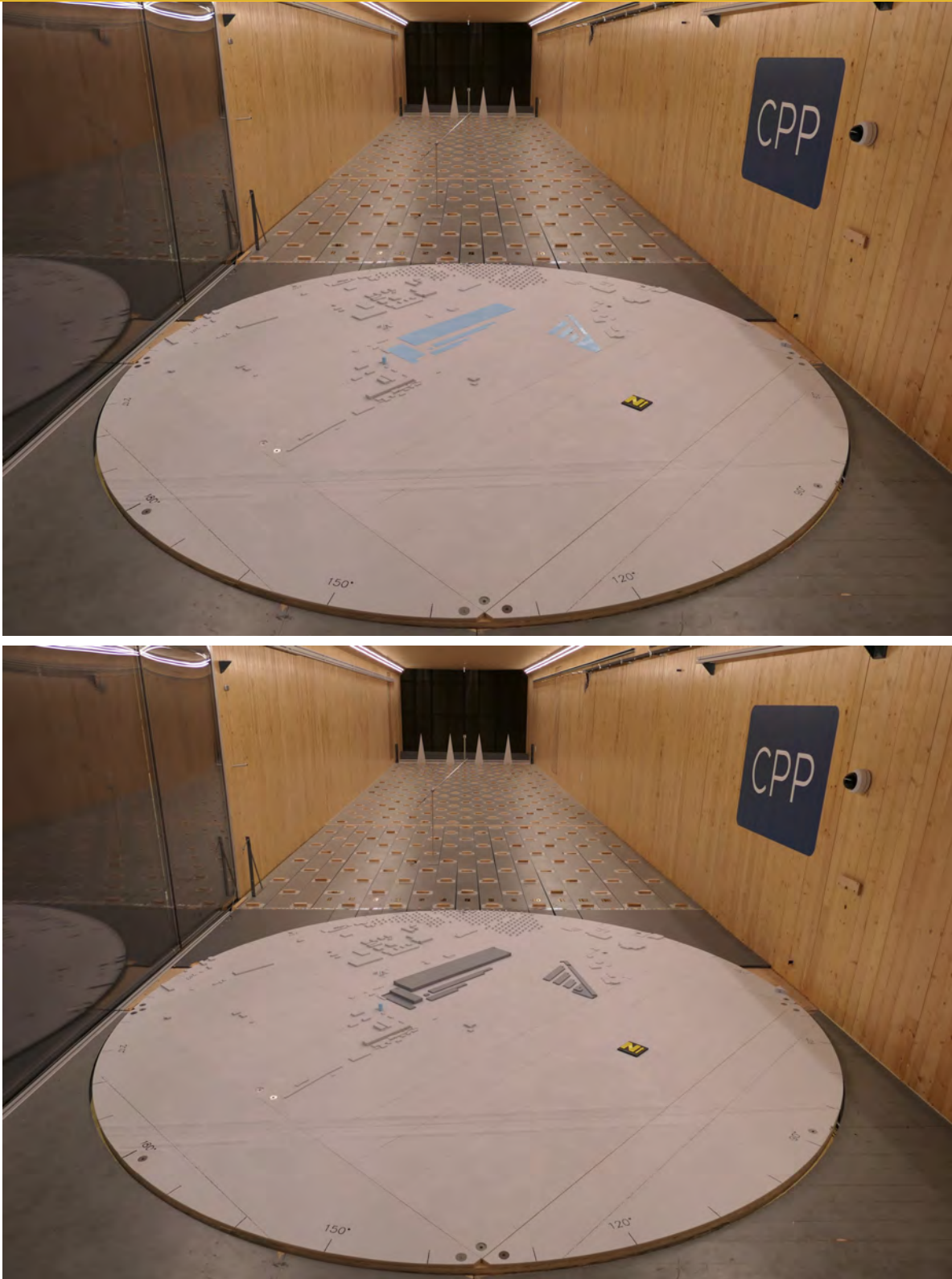


Figure 5: Photographs of the model in the wind tunnel as viewed from the southeast, simulating northwesterly winds over the current site (top—Configuration A) and the future site (bottom—Configuration B) with the proposed development in dark grey. Note the larger roughness elements on the approach fetch to the model.

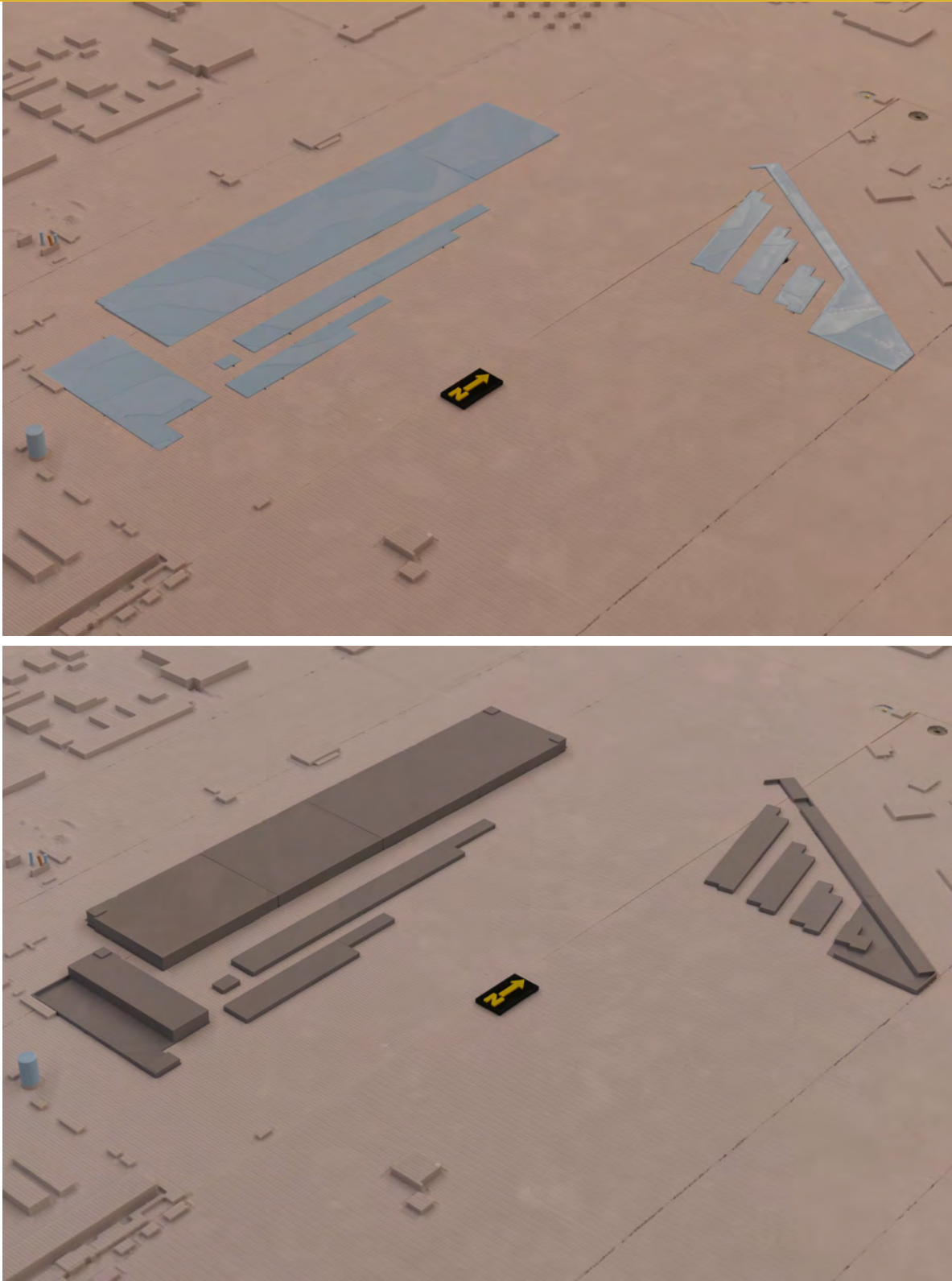


Figure 5: Detailed views of the site model from the southeast: current site (top—Configuration A) and future site (bottom—Configuration B) with the proposed development in dark grey.

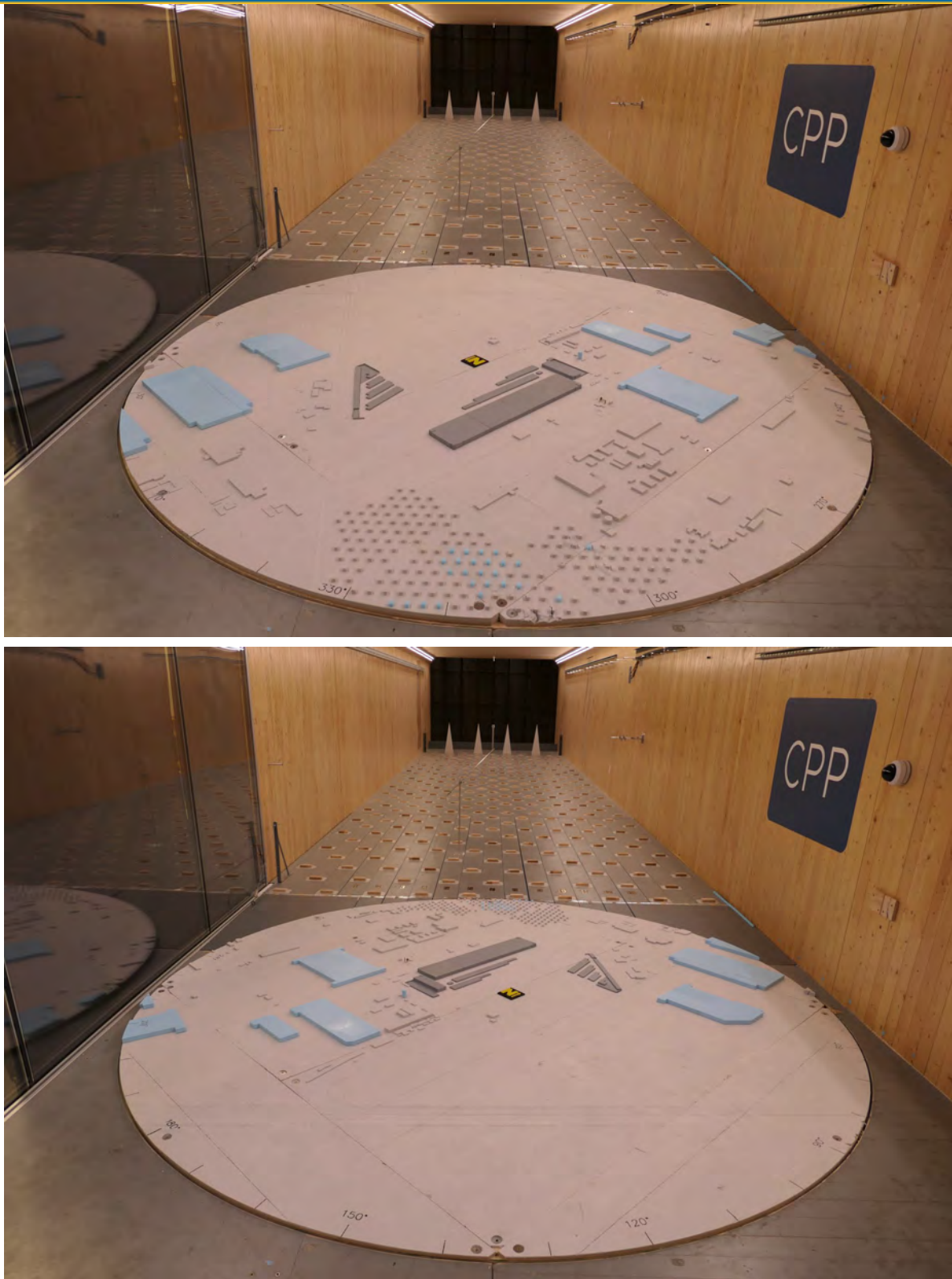


Figure 5: Photographs of the Configuration C (cumulative) model in the wind tunnel as viewed from the northwest (top) simulating southeasterly winds, and the southeast (bottom) simulating northwesterly winds. The cumulative developments are indicated in light blue and proposed development is indicated in dark grey. Note the larger roughness elements on the approach fetch to the model.

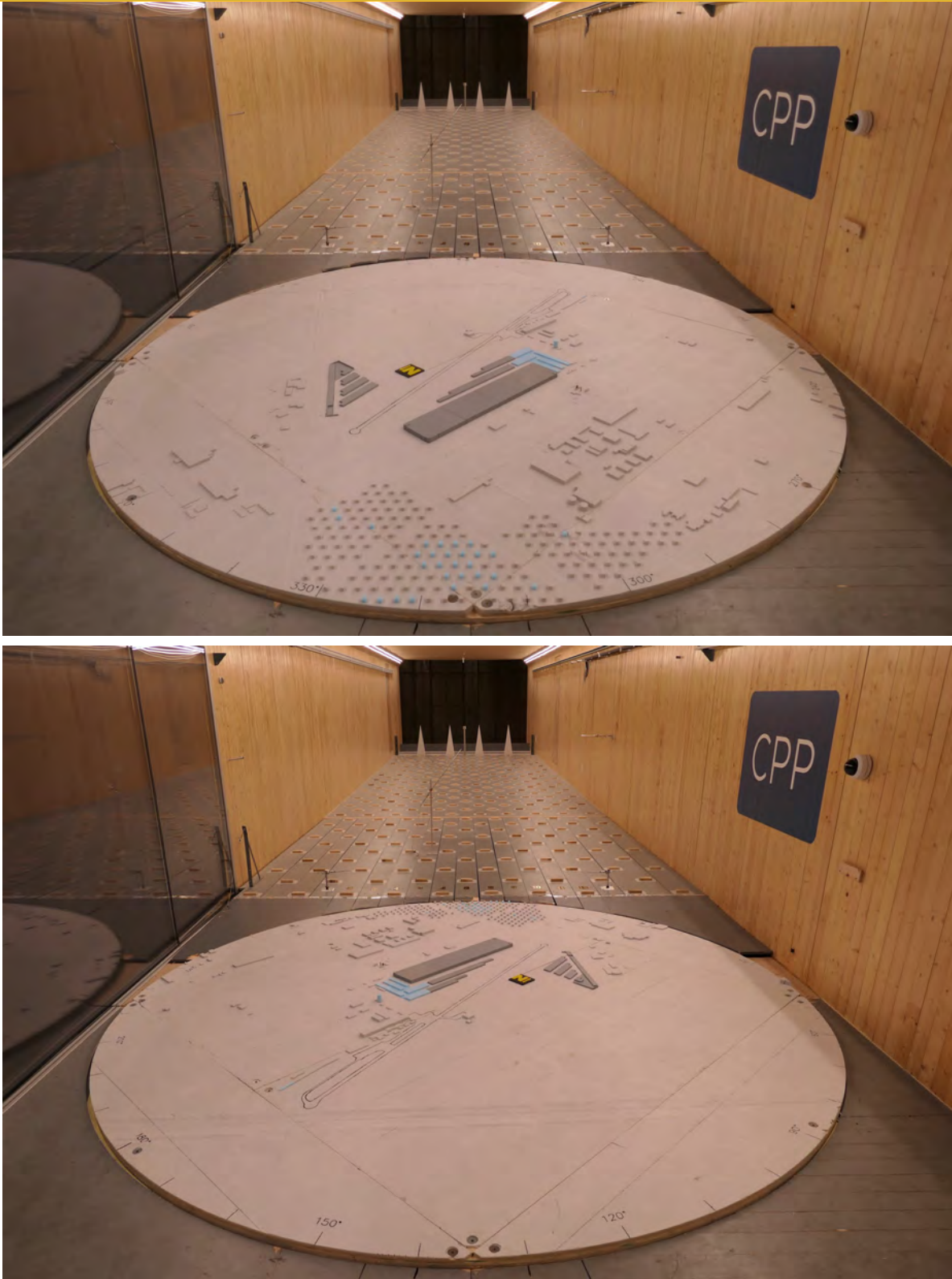


Figure 5: Photographs of the Configuration D (reduced alternative Project) model in the wind tunnel as viewed from the northwest (top) simulating southeasterly winds, and the southeast (bottom) simulating northwesterly winds.

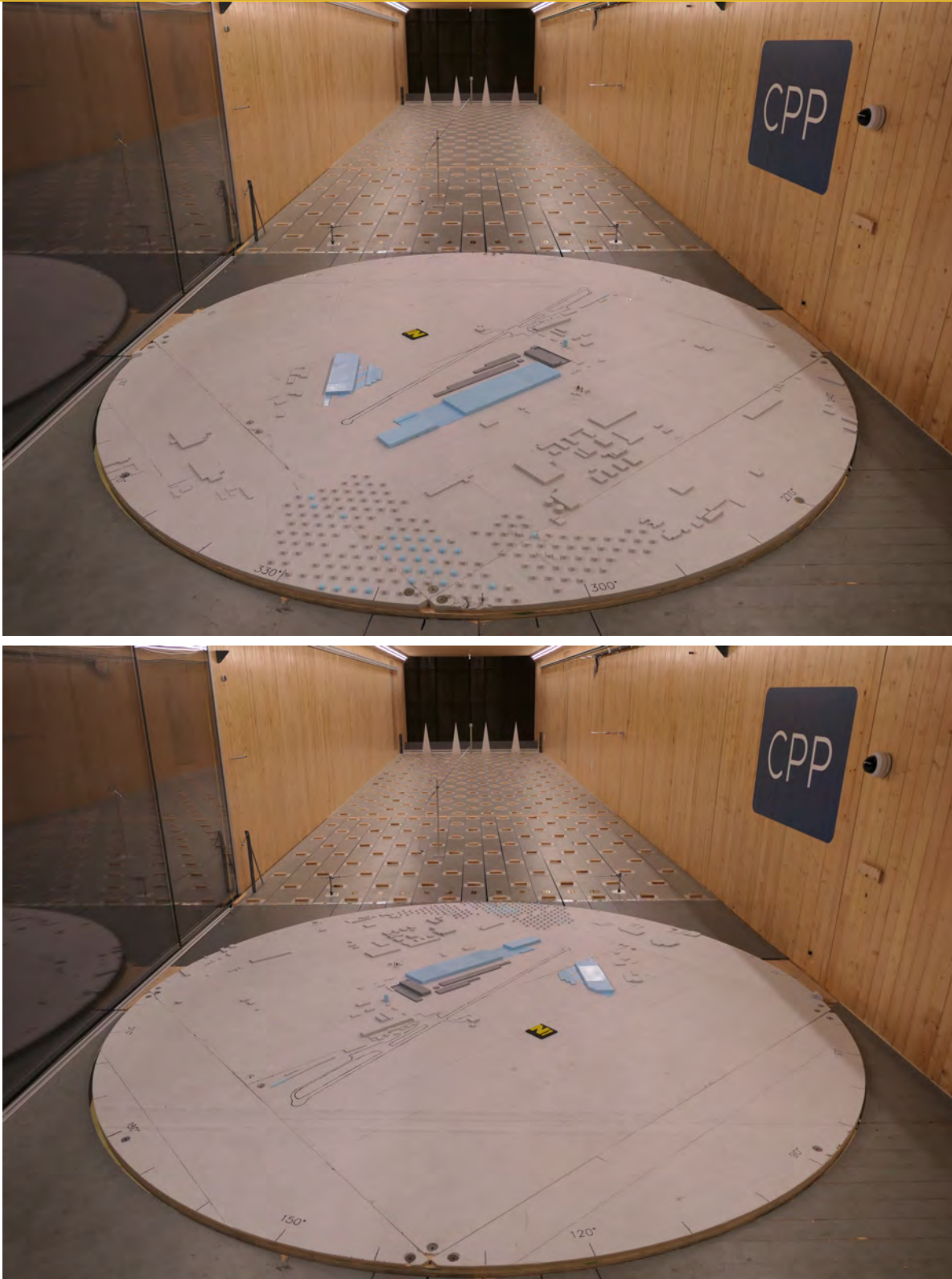
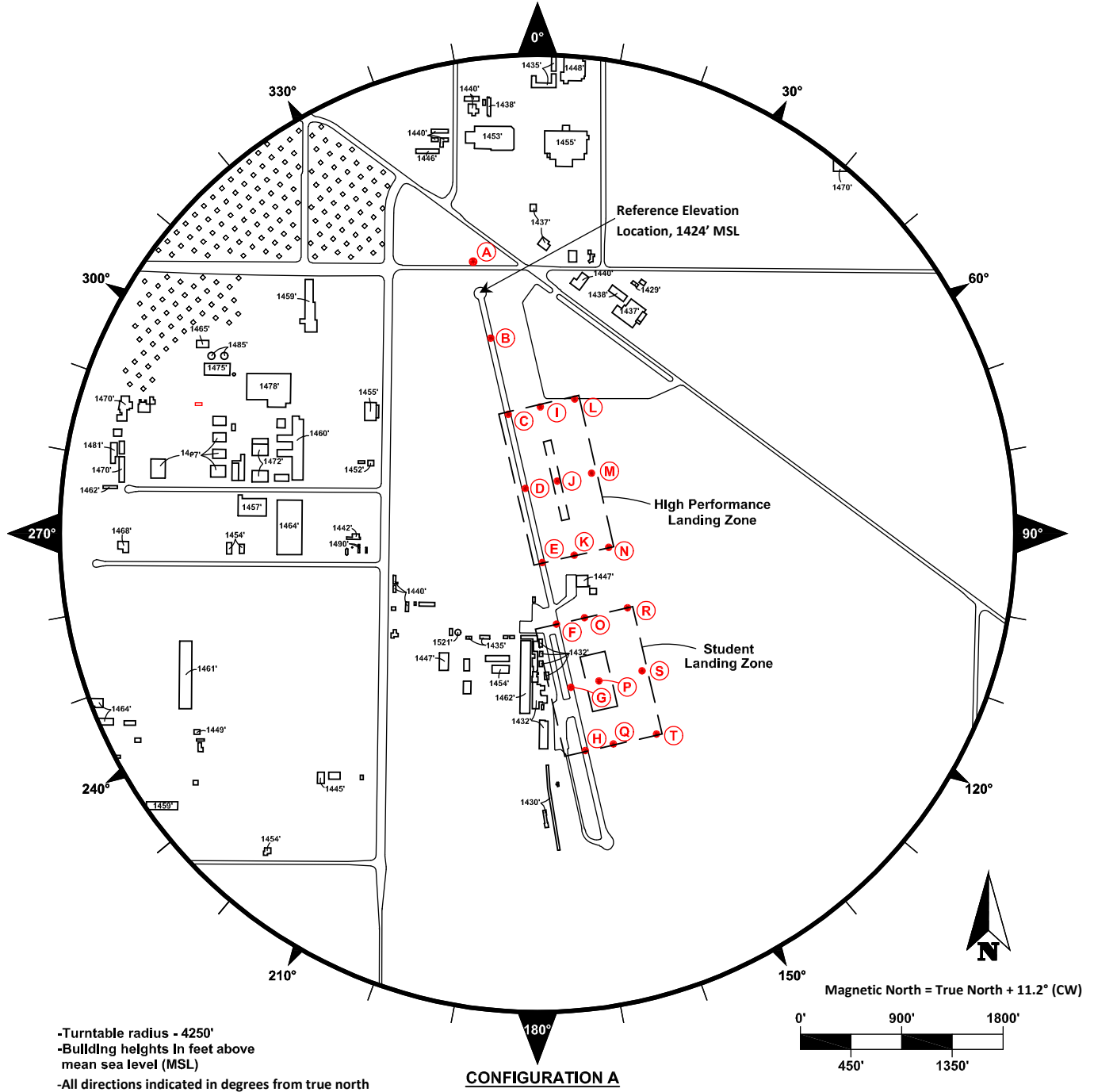
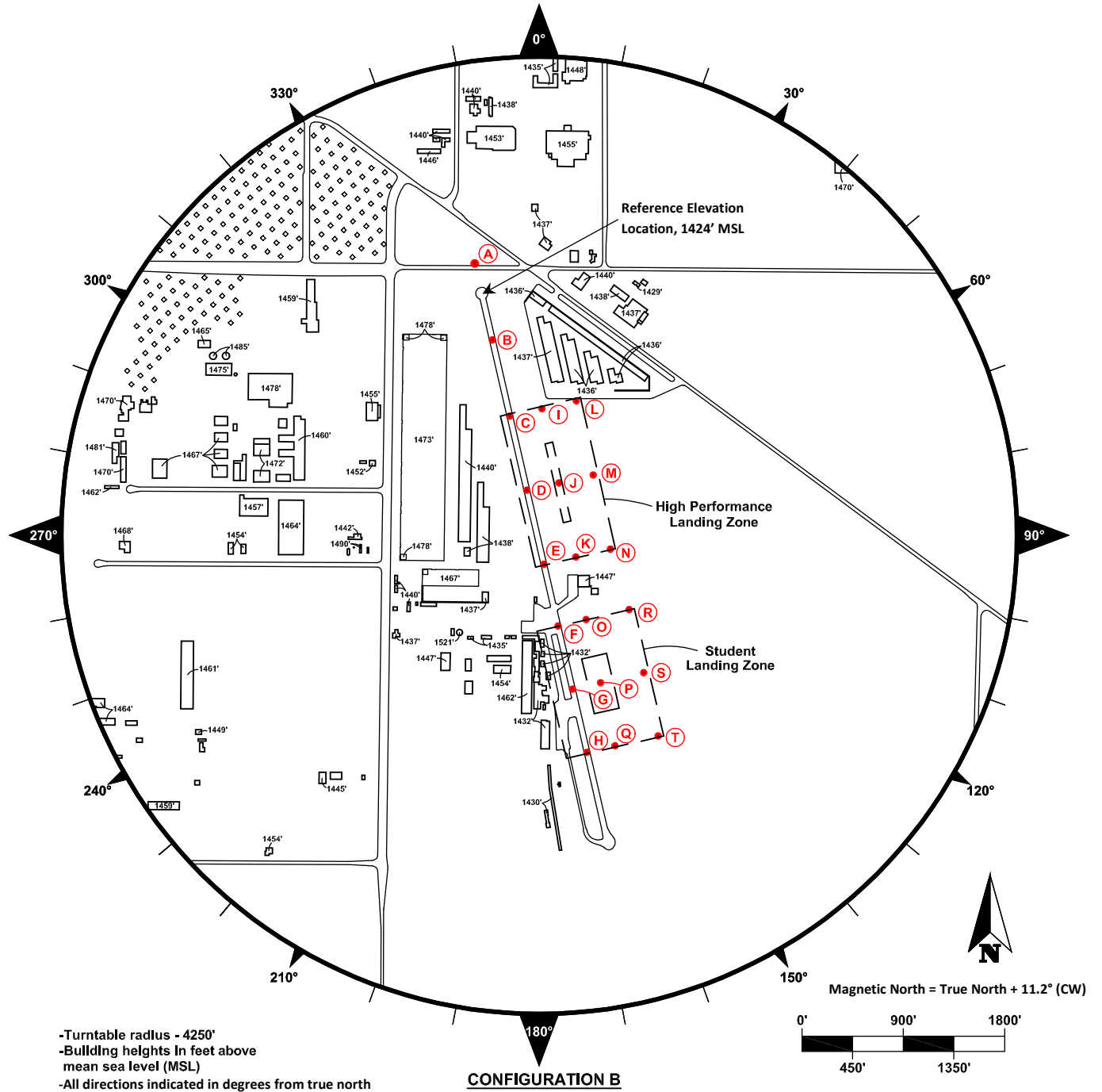


Figure 5: Photographs of the Configuration E (maximum alternative Project) model in the wind tunnel as viewed from the northwest (top) simulating southeasterly winds, and the southeast (bottom) simulating northwesterly winds.



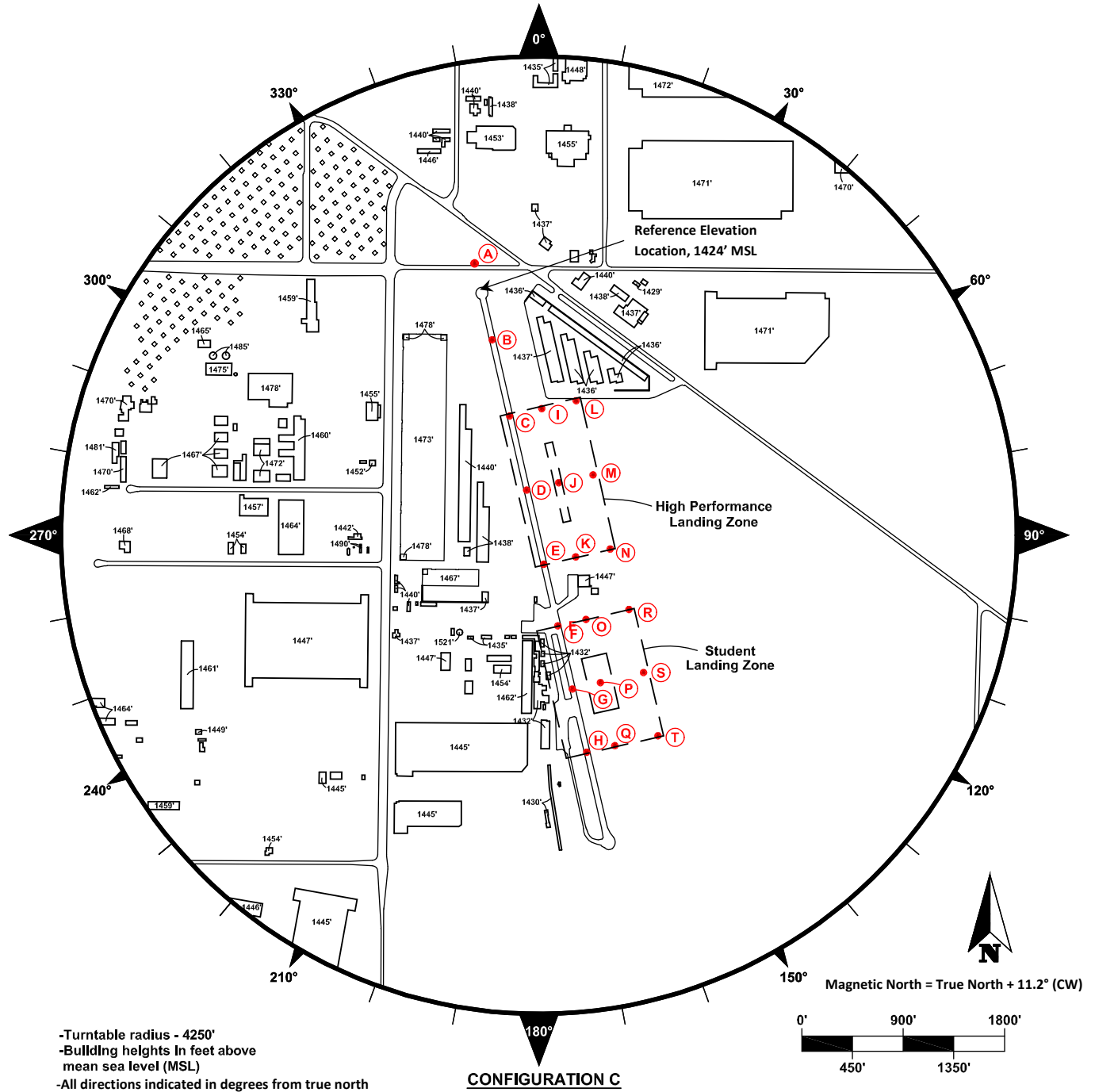
Point Location	Point Heights (ft)					Point Location	Point Heights (ft)				
	25	50	100	150	250		25	50	100	150	250
A	101	111	121	131	141	K	203	213	223	233	243
B	102	112	122	132	142	L	301	311	321	331	341
C	103	113	123	133	143	M	302	312	322	332	342
D	104	114	124	134	144	N	303	313	323	333	343
E	105	115	125	135	145	O	401	411	421	431	441
F	106	116	126	136	146	P	402	412	422	432	442
G	107	117	127	137	147	Q	403	413	423	433	443
H	108	118	128	138	148	R	501	511	521	531	541
I	201	211	221	231	241	S	502	512	522	532	542
J	202	212	222	232	242	T	503	513	523	533	543

Figure 6a: Plan view of the area modeled on the turntable with building heights and point measurement heights and locations: Configuration A – Current Site



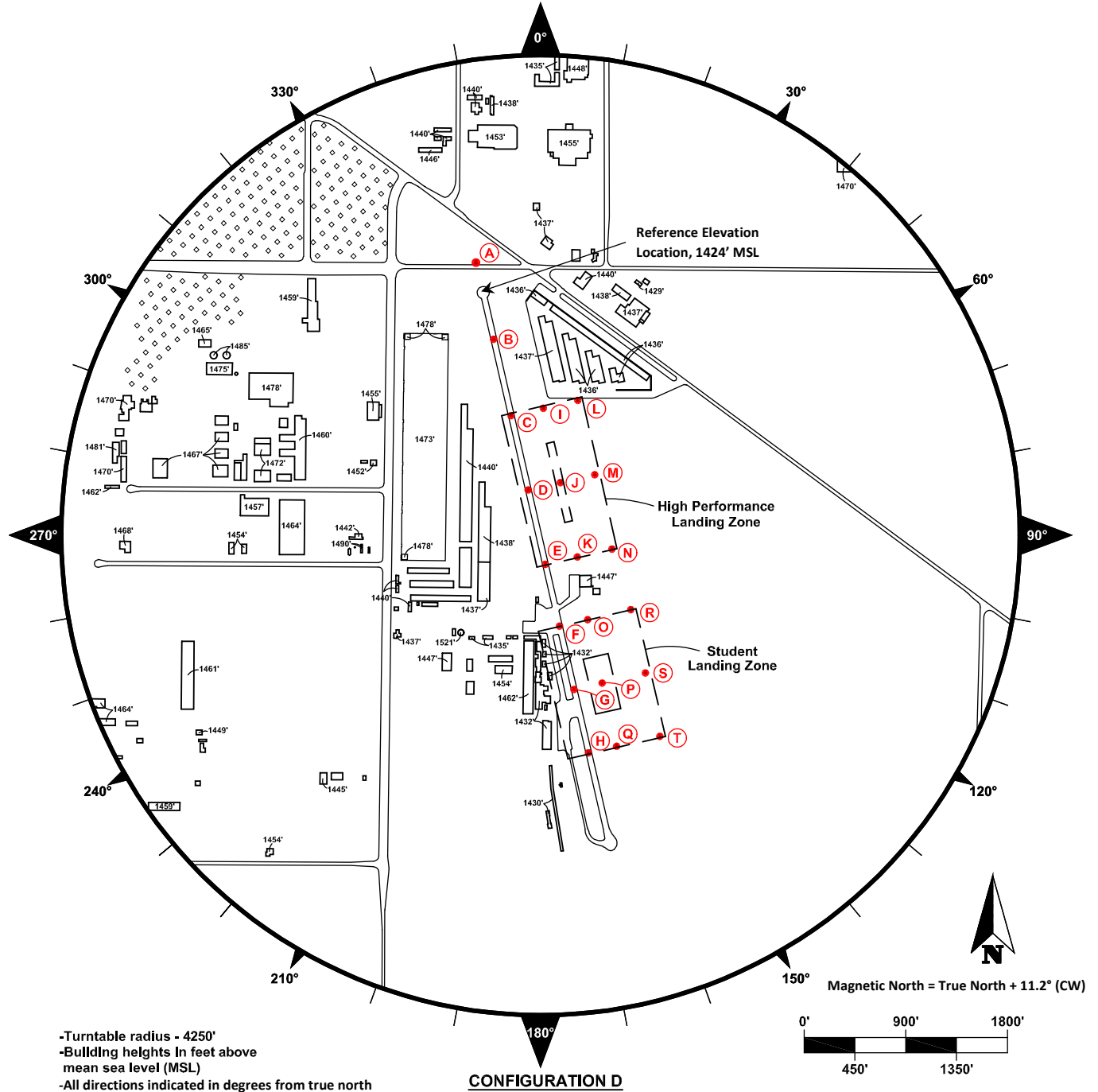
Point Location	Point Heights (ft)					Point Location	Point Heights (ft)				
	25	50	100	150	250		25	50	100	150	250
A	101	111	121	131	141	K	203	213	223	233	243
B	102	112	122	132	142	L	301	311	321	331	341
C	103	113	123	133	143	M	302	312	322	332	342
D	104	114	124	134	144	N	303	313	323	333	343
E	105	115	125	135	145	O	401	411	421	431	441
F	106	116	126	136	146	P	402	412	422	432	442
G	107	117	127	137	147	Q	403	413	423	433	443
H	108	118	128	138	148	R	501	511	521	531	541
I	201	211	221	231	241	S	502	512	522	532	542
J	202	212	222	232	242	T	503	513	523	533	543

Figure 6b: Plan view of the area modeled on the turntable with building heights and point measurement heights and locations: Configuration B—Future Site



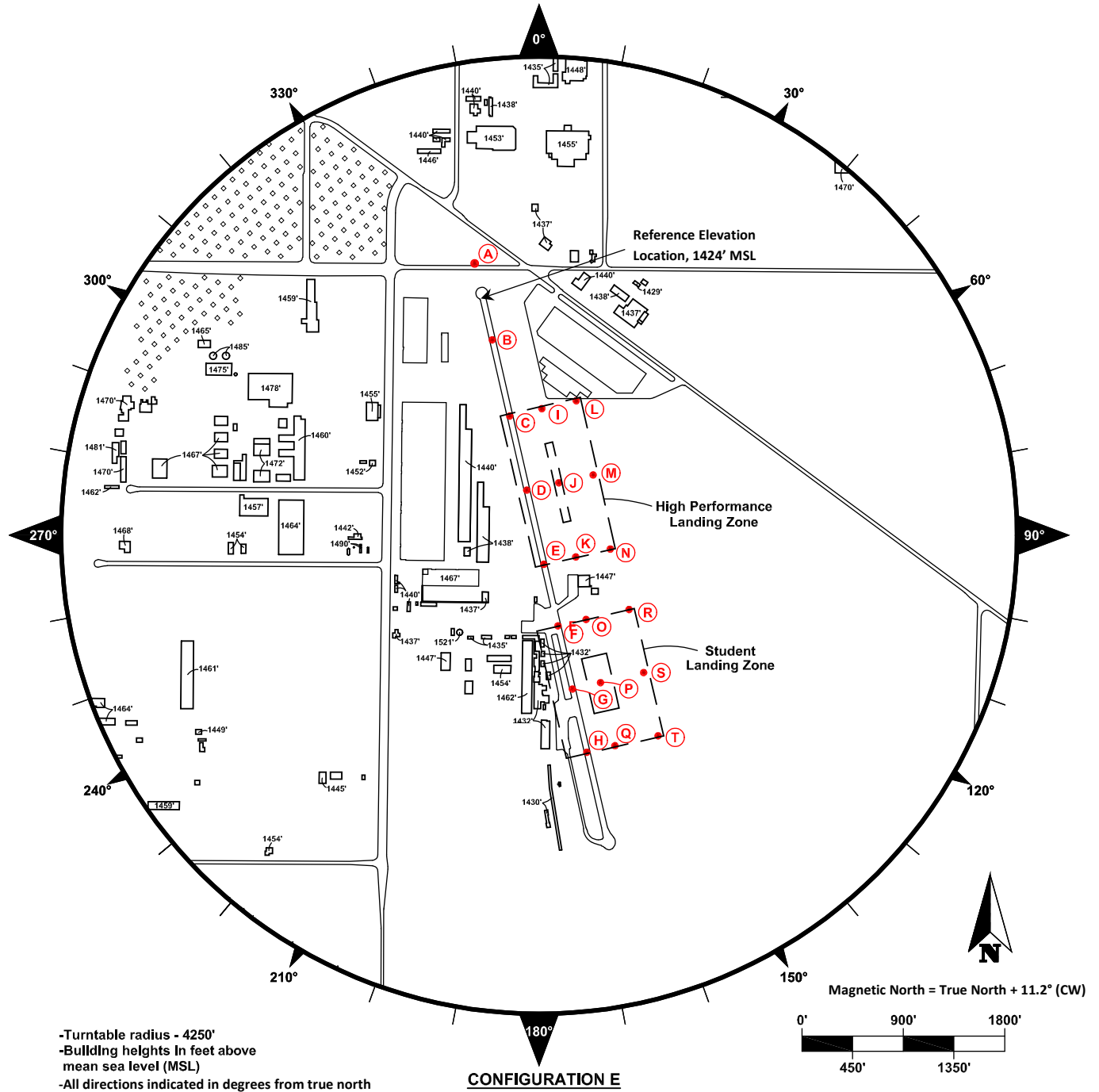
Point Number Designations By Location and Height Above 1424' MSL											
Point Location	Point Heights (ft)					Point Location	Point Heights (ft)				
	25	50	100	150	250		25	50	100	150	250
A	101	111	121	131	141	K	203	213	223	233	243
B	102	112	122	132	142	L	301	311	321	331	341
C	103	113	123	133	143	M	302	312	322	332	342
D	104	114	124	134	144	N	303	313	323	333	343
E	105	115	125	135	145	O	401	411	421	431	441
F	106	116	126	136	146	P	402	412	422	432	442
G	107	117	127	137	147	Q	403	413	423	433	443
H	108	118	128	138	148	R	501	511	521	531	541
I	201	211	221	231	241	S	502	512	522	532	542
J	202	212	222	232	242	T	503	513	523	533	543

Figure 6c: Plan view of the area modeled on the turntable with building heights and point measurement heights and locations: Configuration C—Future Cumulative Site



Point Number Designations By Location and Height Above 1424' MSL											
Point Location	Point Heights (ft)					Point Location	Point Heights (ft)				
	25	50	100	150	250		25	50	100	150	250
A	101	111	121	131	141	K	203	213	223	233	243
B	102	112	122	132	142	L	301	311	321	331	341
C	103	113	123	133	143	M	302	312	322	332	342
D	104	114	124	134	144	N	303	313	323	333	343
E	105	115	125	135	145	O	401	411	421	431	441
F	106	116	126	136	146	P	402	412	422	432	442
G	107	117	127	137	147	Q	403	413	423	433	443
H	108	118	128	138	148	R	501	511	521	531	541
I	201	211	221	231	241	S	502	512	522	532	542
J	202	212	222	232	242	T	503	513	523	533	543

Figure 6d: Plan view of the area modeled on the turntable with building heights and point measurement heights and locations: Configuration D—Reduced Alternative Project



Point Location	Point Heights (ft)					Point Location	Point Heights (ft)				
	25	50	100	150	250		25	50	100	150	250
A	101	111	121	131	141	K	203	213	223	233	243
B	102	112	122	132	142	L	301	311	321	331	341
C	103	113	123	133	143	M	302	312	322	332	342
D	104	114	124	134	144	N	303	313	323	333	343
E	105	115	125	135	145	O	401	411	421	431	441
F	106	116	126	136	146	P	402	412	422	432	442
G	107	117	127	137	147	Q	403	413	423	433	443
H	108	118	128	138	148	R	501	511	521	531	541
I	201	211	221	231	241	S	502	512	522	532	542
J	202	212	222	232	242	T	503	513	523	533	543

Figure 6e: Plan view of the area modeled on the turntable with building heights and point measurement heights and locations: Configuration E—Maximum Alternative Project

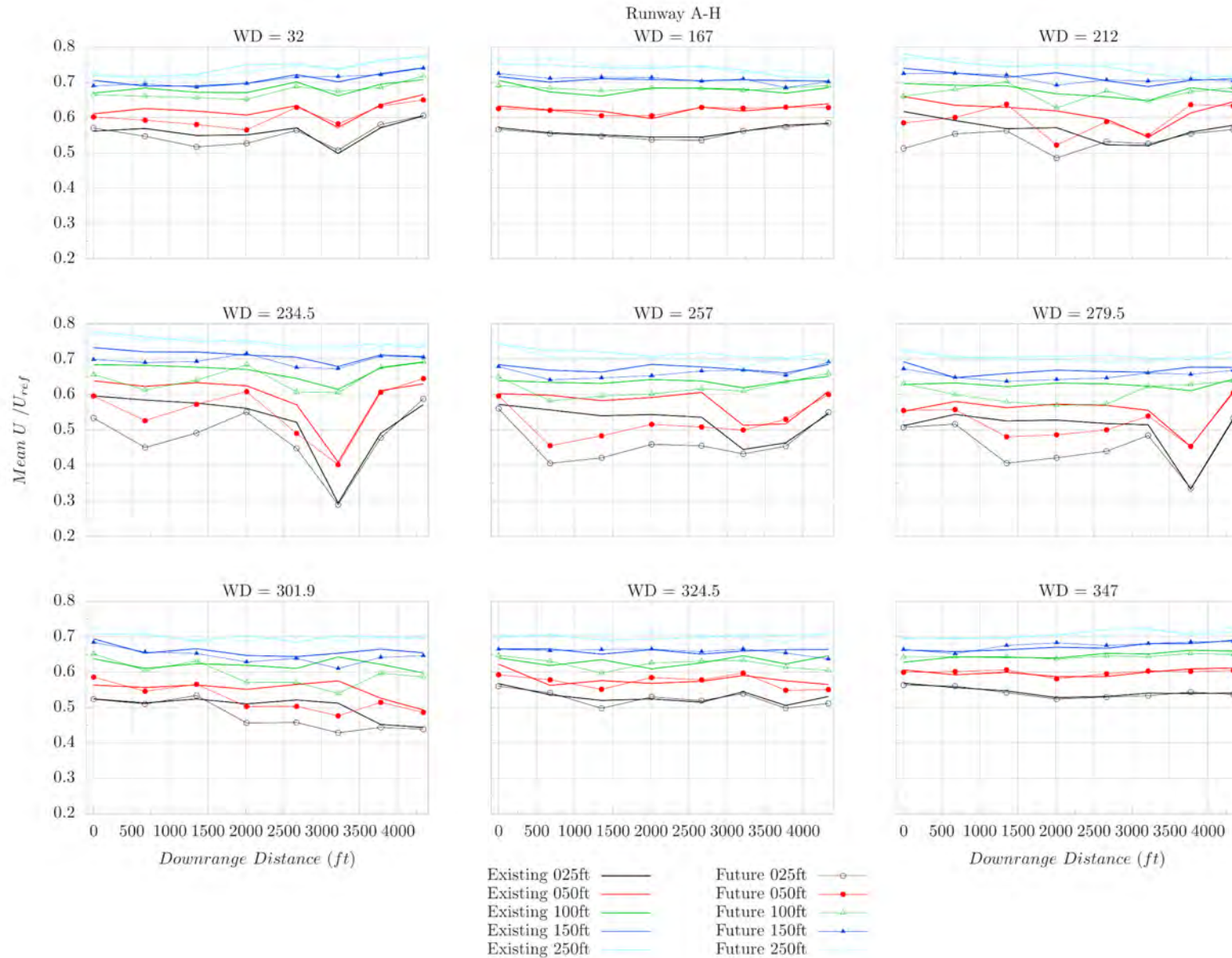


Figure 7: Existing and Future Configurations: Runway (Points A-H): mean along-wind (U) component of velocity normalized by reference velocity U_{ref} .

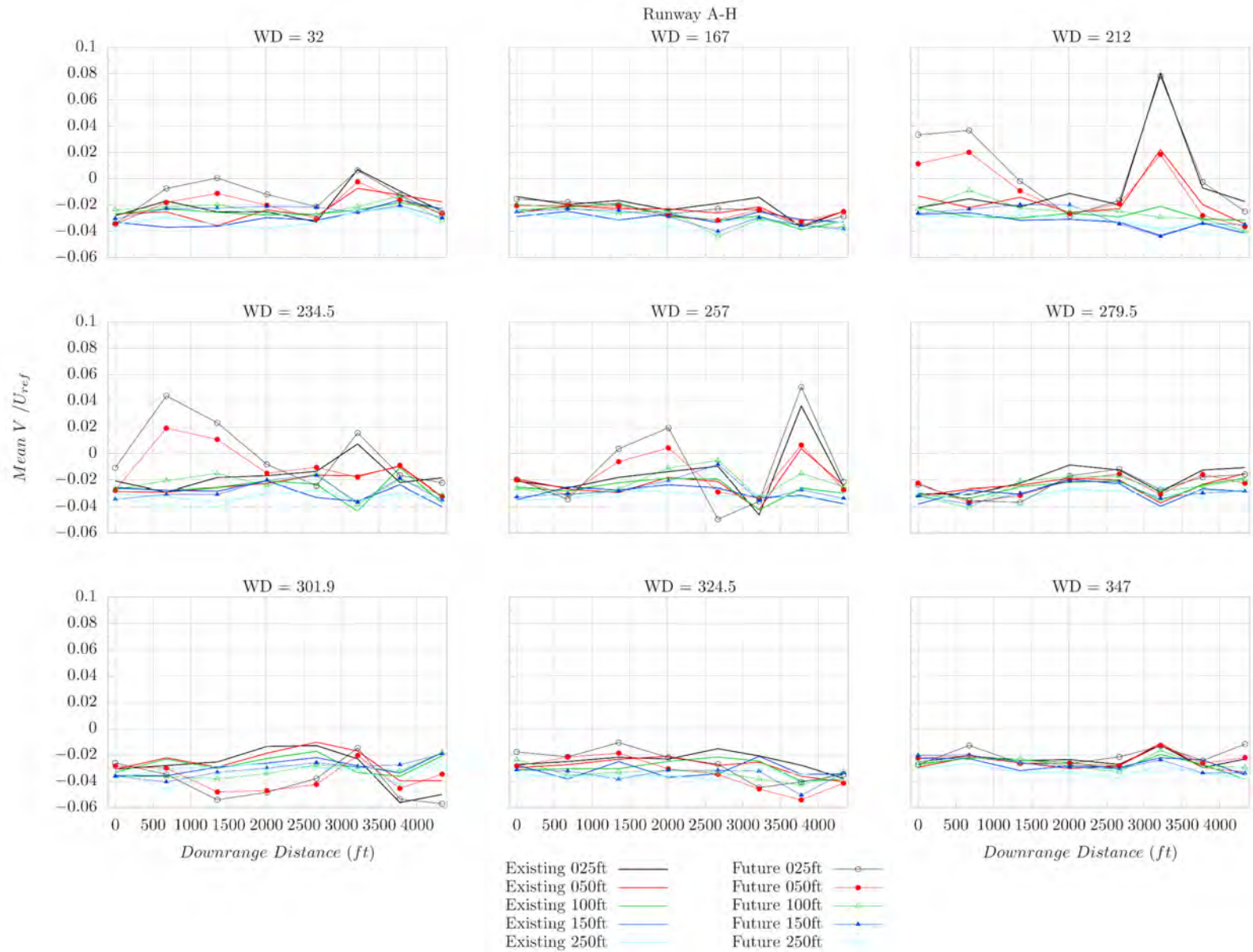


Figure 8: Existing and Future Configurations: Runway (Points A-H): mean cross-wind (V) component of velocity normalized by reference velocity U_{ref} .

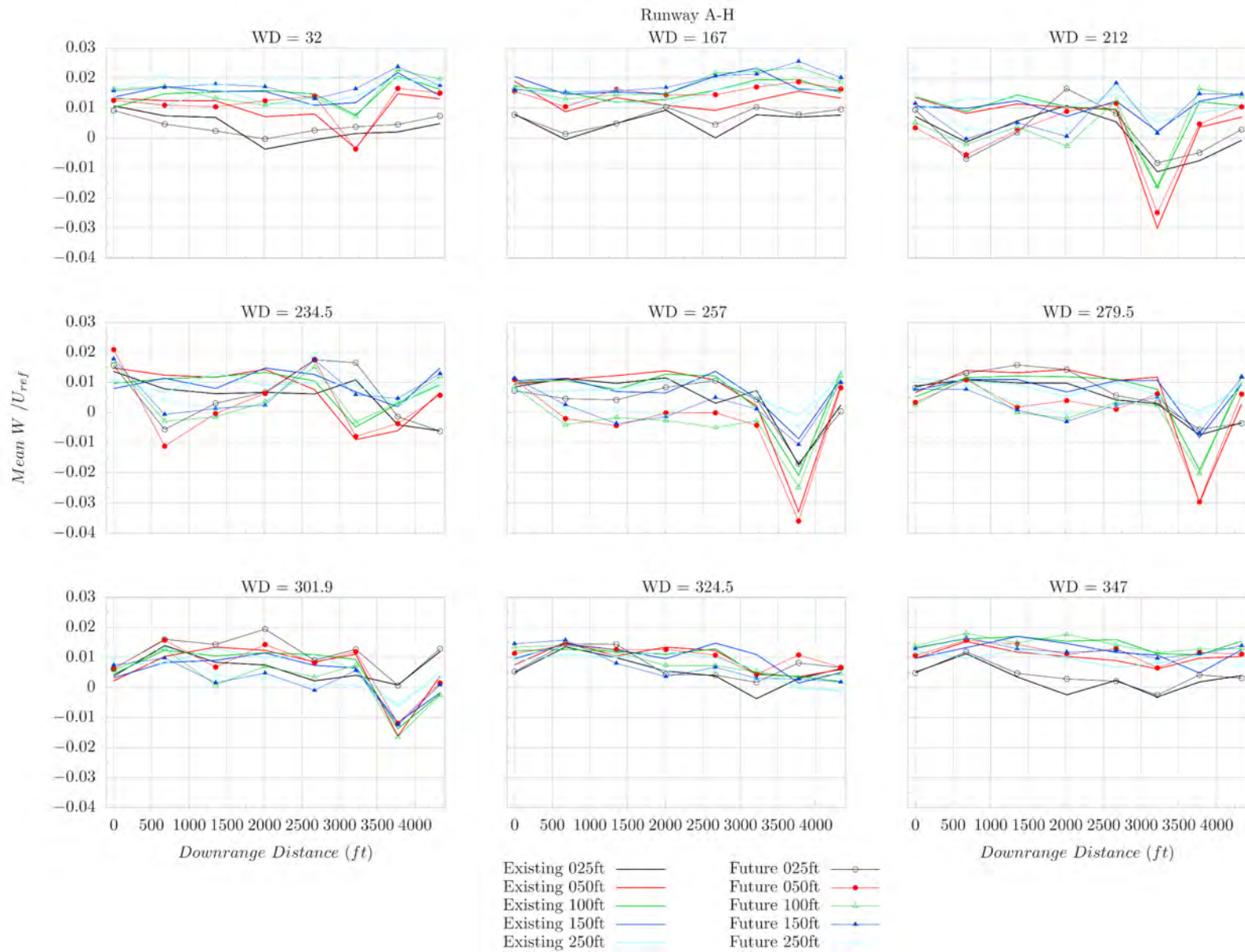


Figure 9: Existing and Future Configurations: Runway (Points A-H): mean vertical (W) component of velocity normalized by reference velocity U_{ref} .

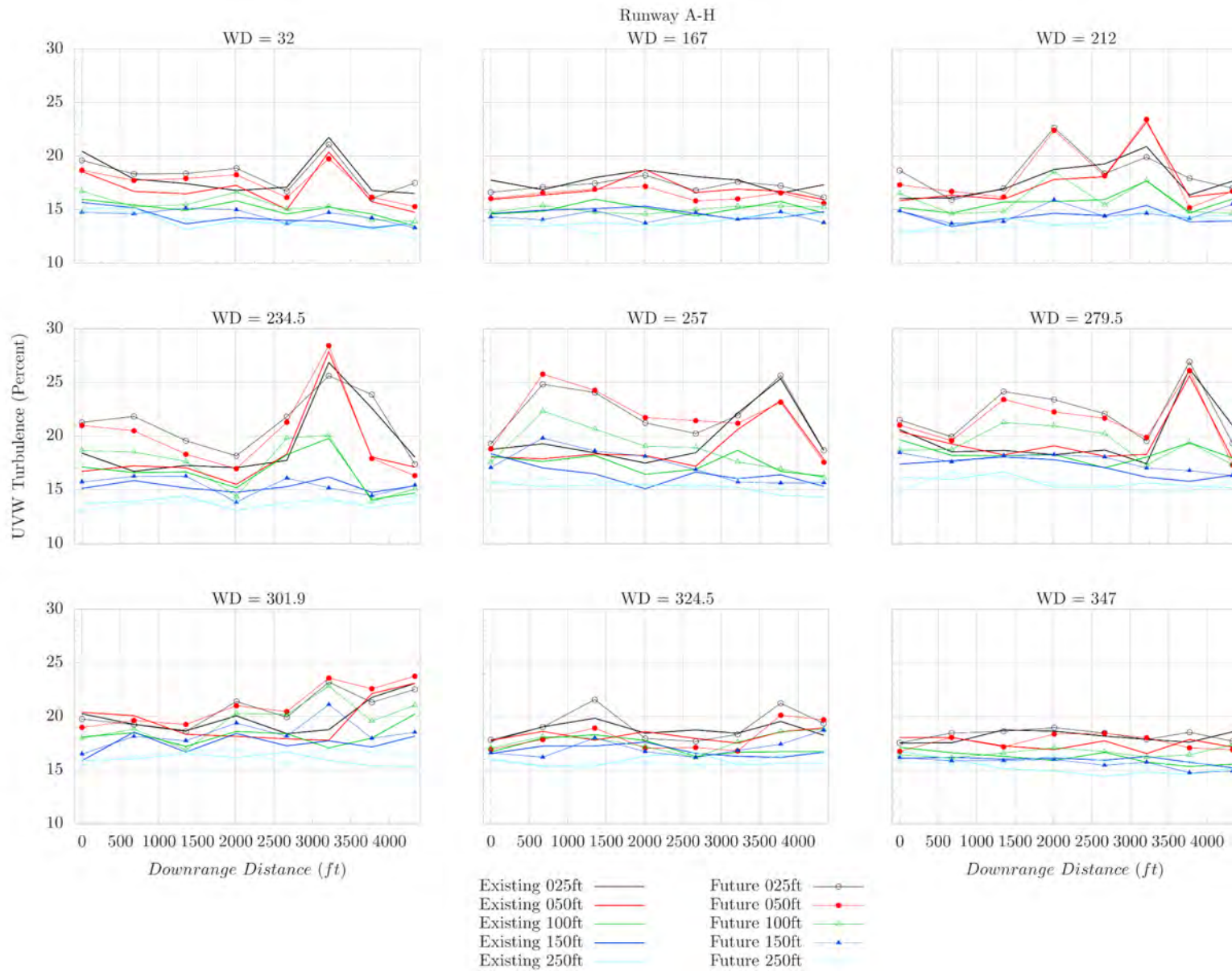


Figure 10: Existing and Future Configurations: Runway (Points A-H): UVW-component of turbulence intensity normalized by the resultant mean wind velocity (\downarrow UVW).

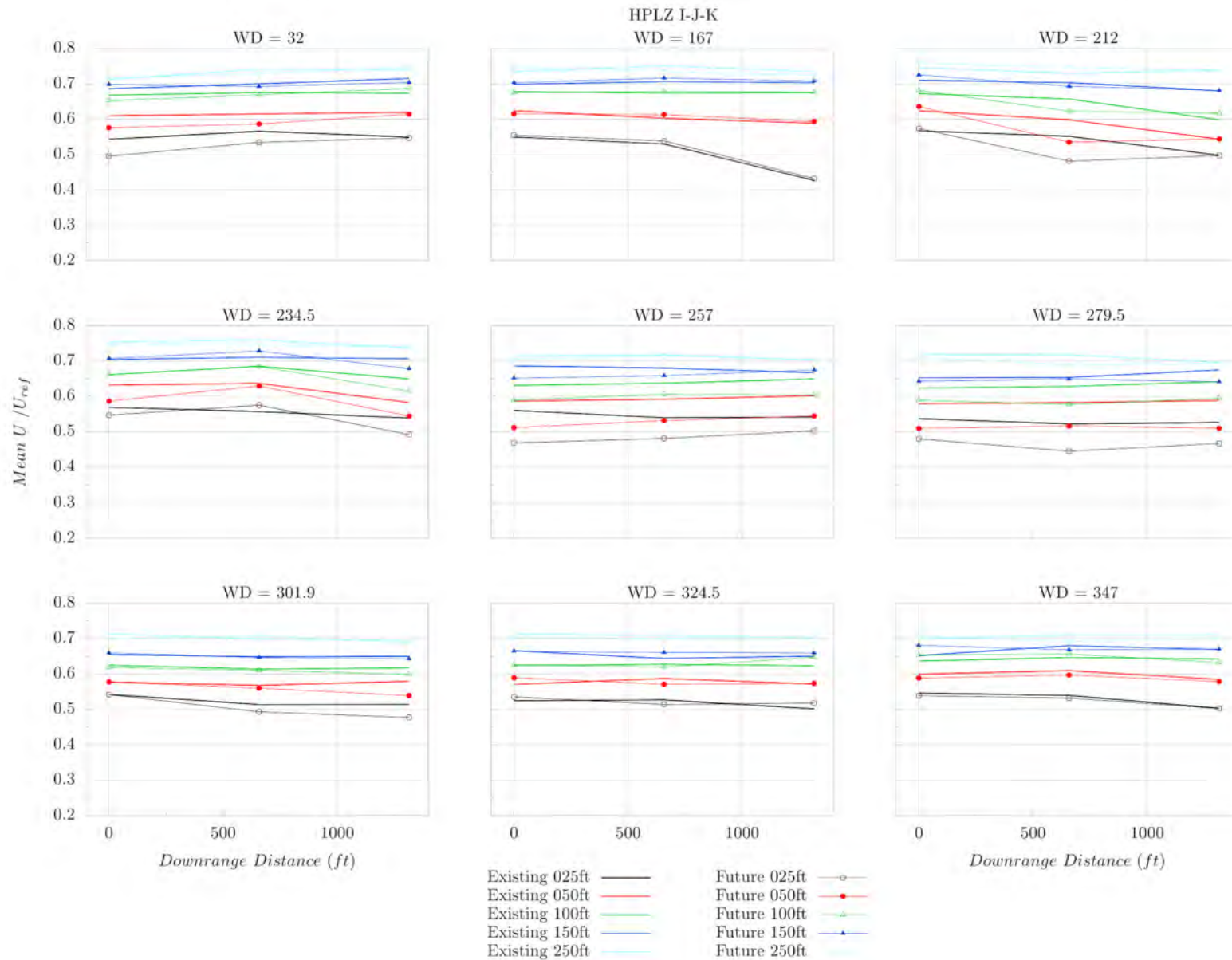


Figure 11: Existing and Future Configurations: High-performance landing zone lane 1 (Points I-K): mean along-wind (U) component of velocity normalized by reference velocity U_{ref} .

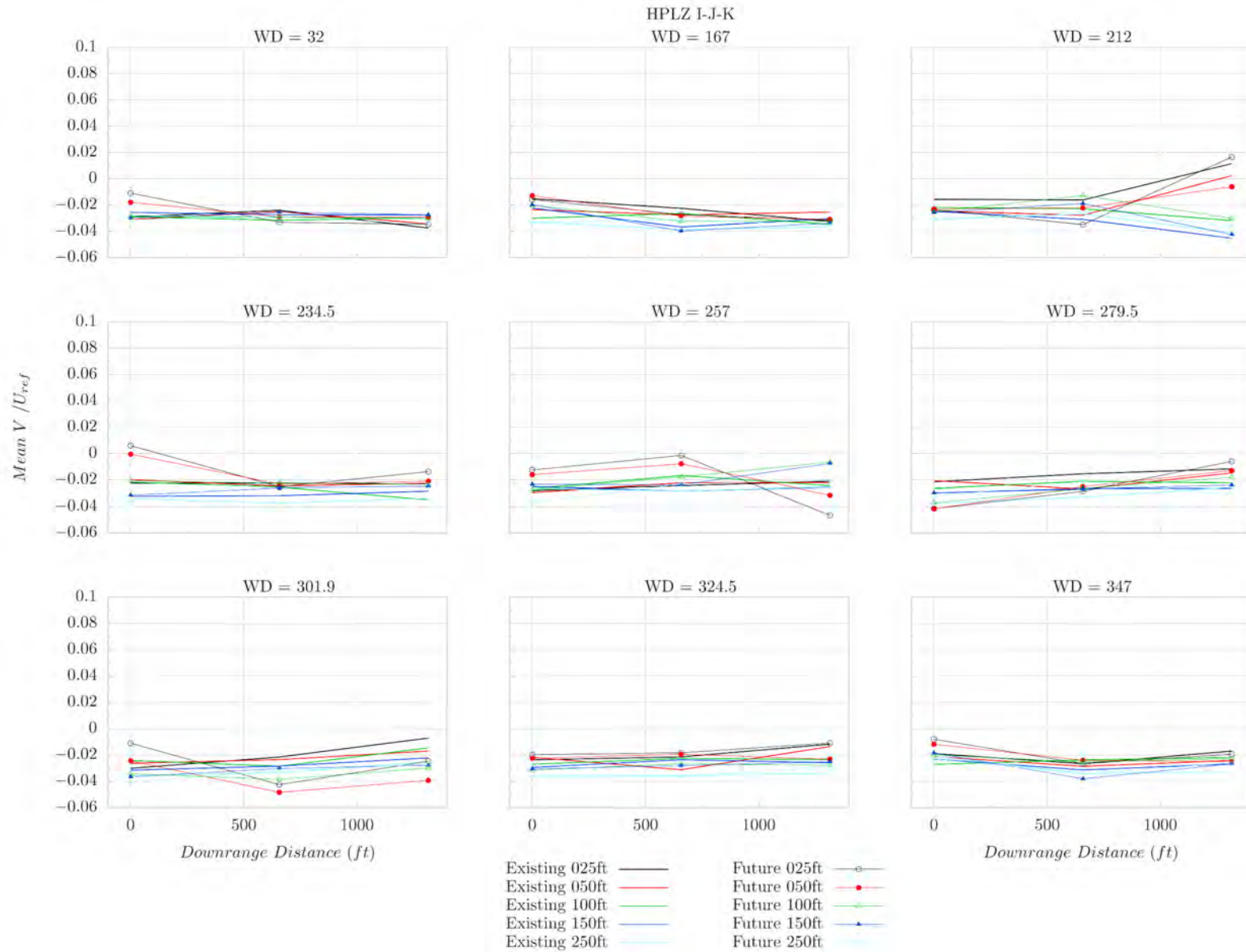


Figure 12: Existing and Future Configurations: High-performance landing zone lane 1 (Points I-K): mean cross-wind (V) component of velocity normalized by reference velocity U_{ref} .

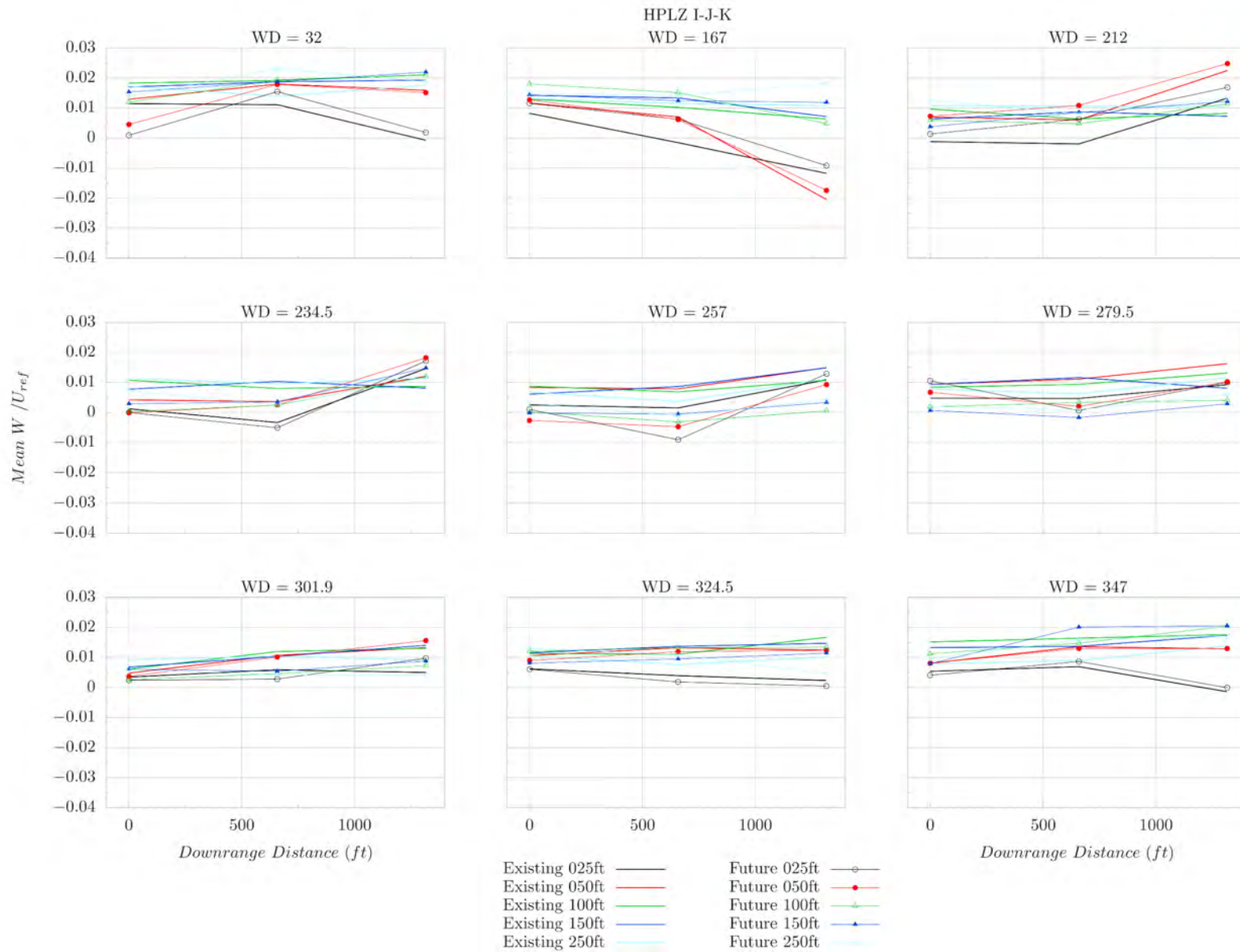


Figure 13: Existing and Future Configurations: High-performance landing zone lane 1 (Points I-K): mean vertical (W) component of velocity normalized by reference velocity U_{ref} .

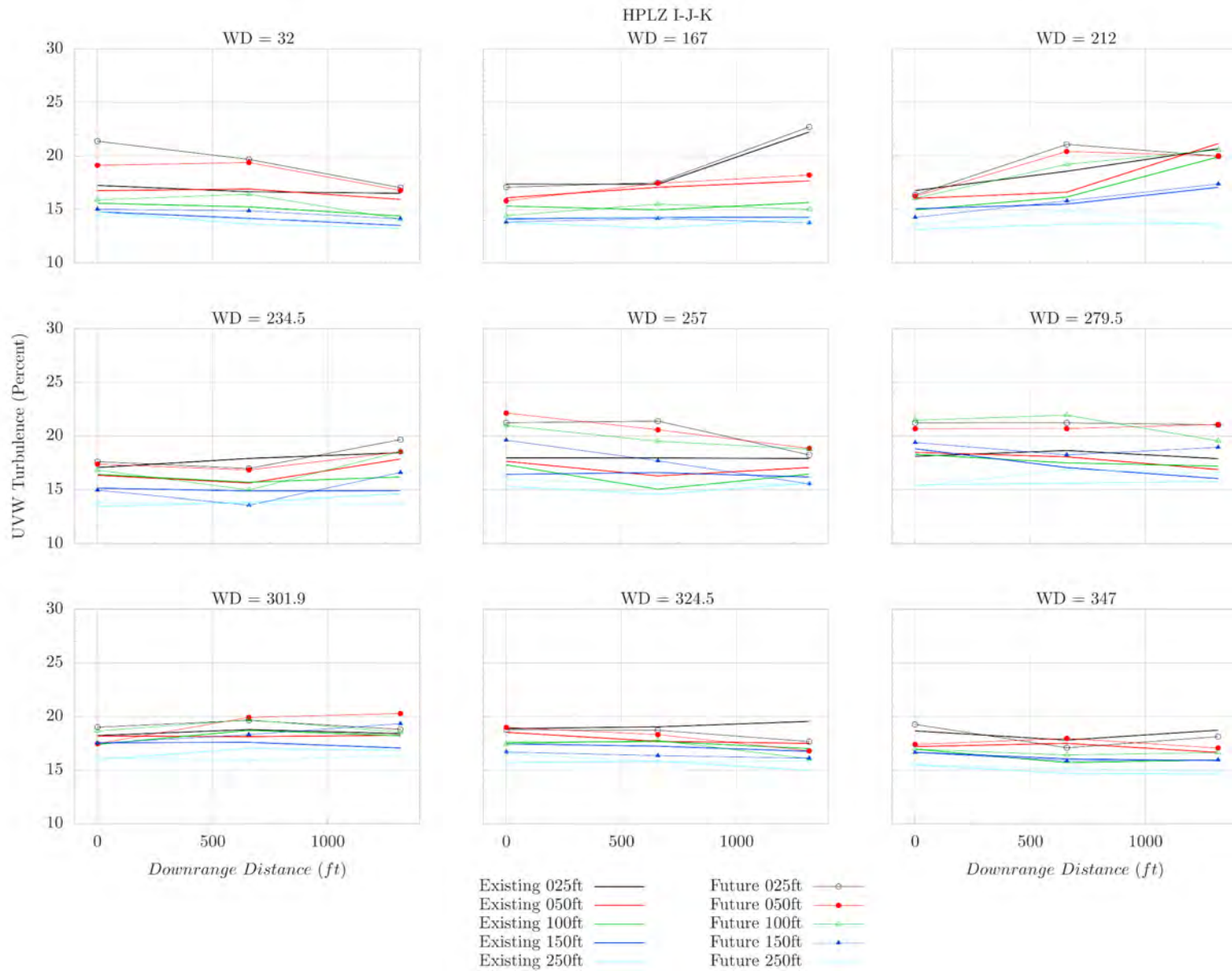


Figure 14: Existing and Future Configurations: High-performance landing zone lane 1 (Points I-K): UVW-component of turbulence intensity normalized by the resultant mean wind velocity ($|UVW|$).

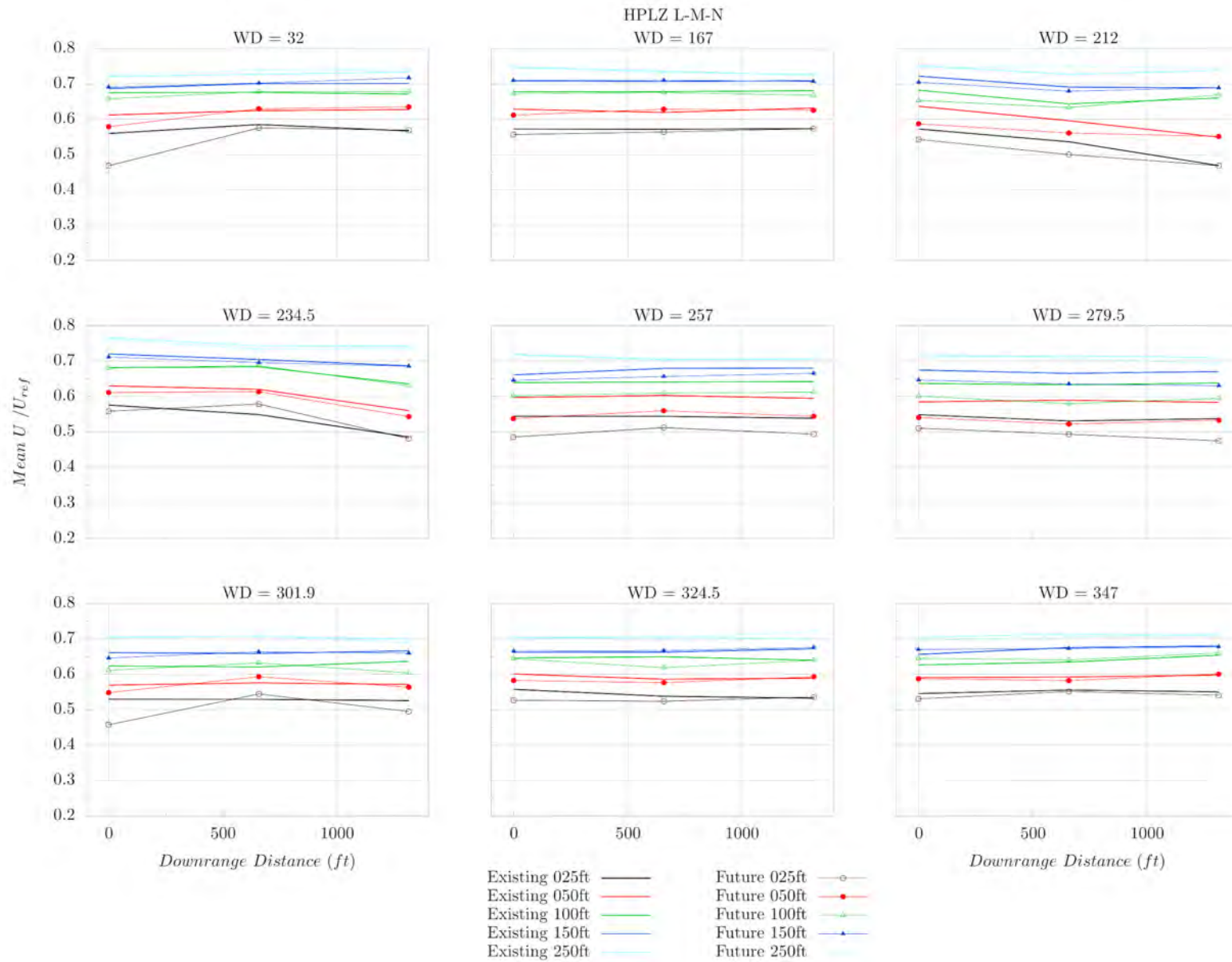


Figure 15: Existing and Future Configurations: High-performance landing zone lane 2 (Points L-N): mean along-wind (U) component of velocity normalized by reference velocity U_{ref} .

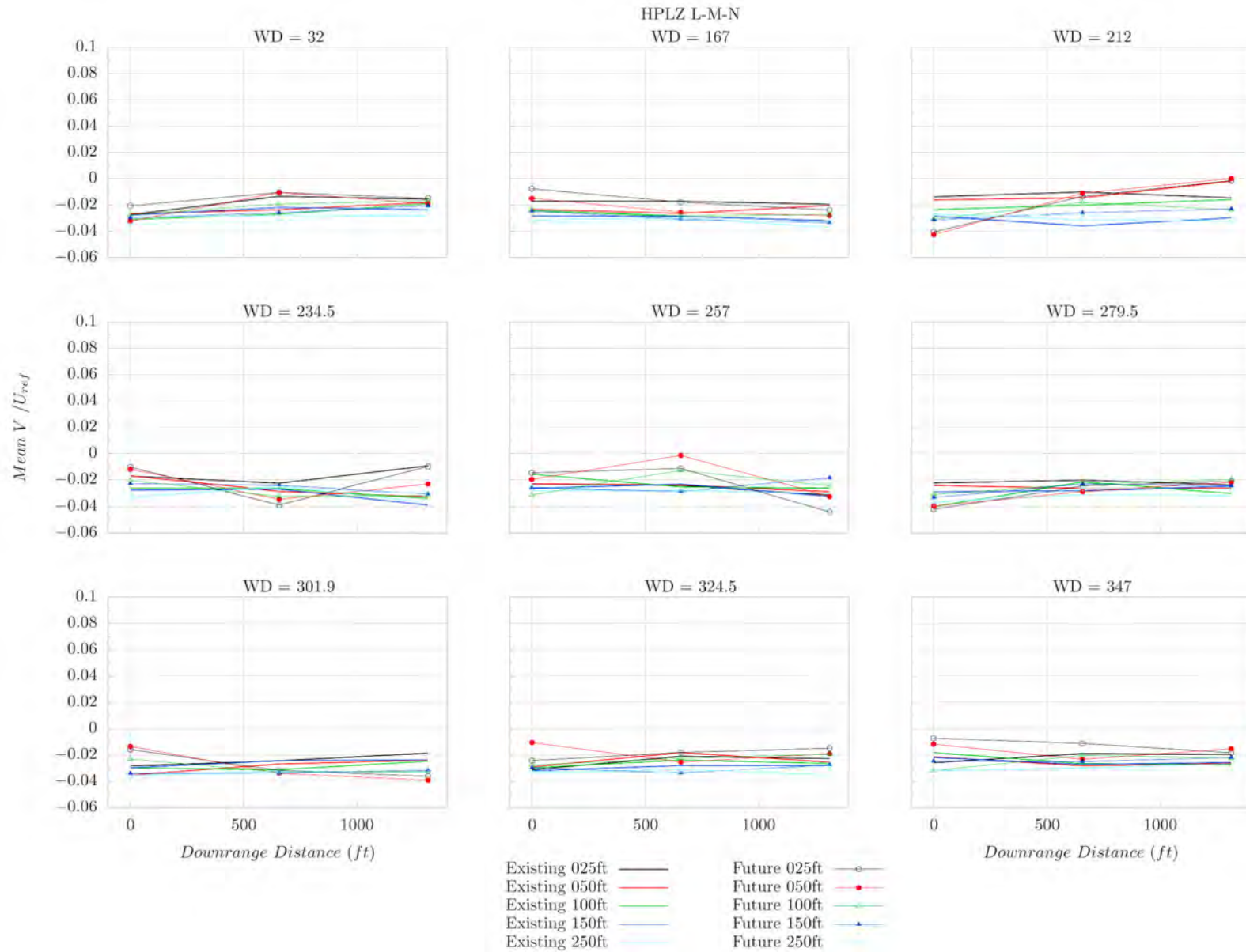


Figure 16: Existing and Future Configurations: High-performance landing zone lane 2 (Points L-N): mean cross-wind (V) component of velocity normalized by reference velocity U_{ref} .

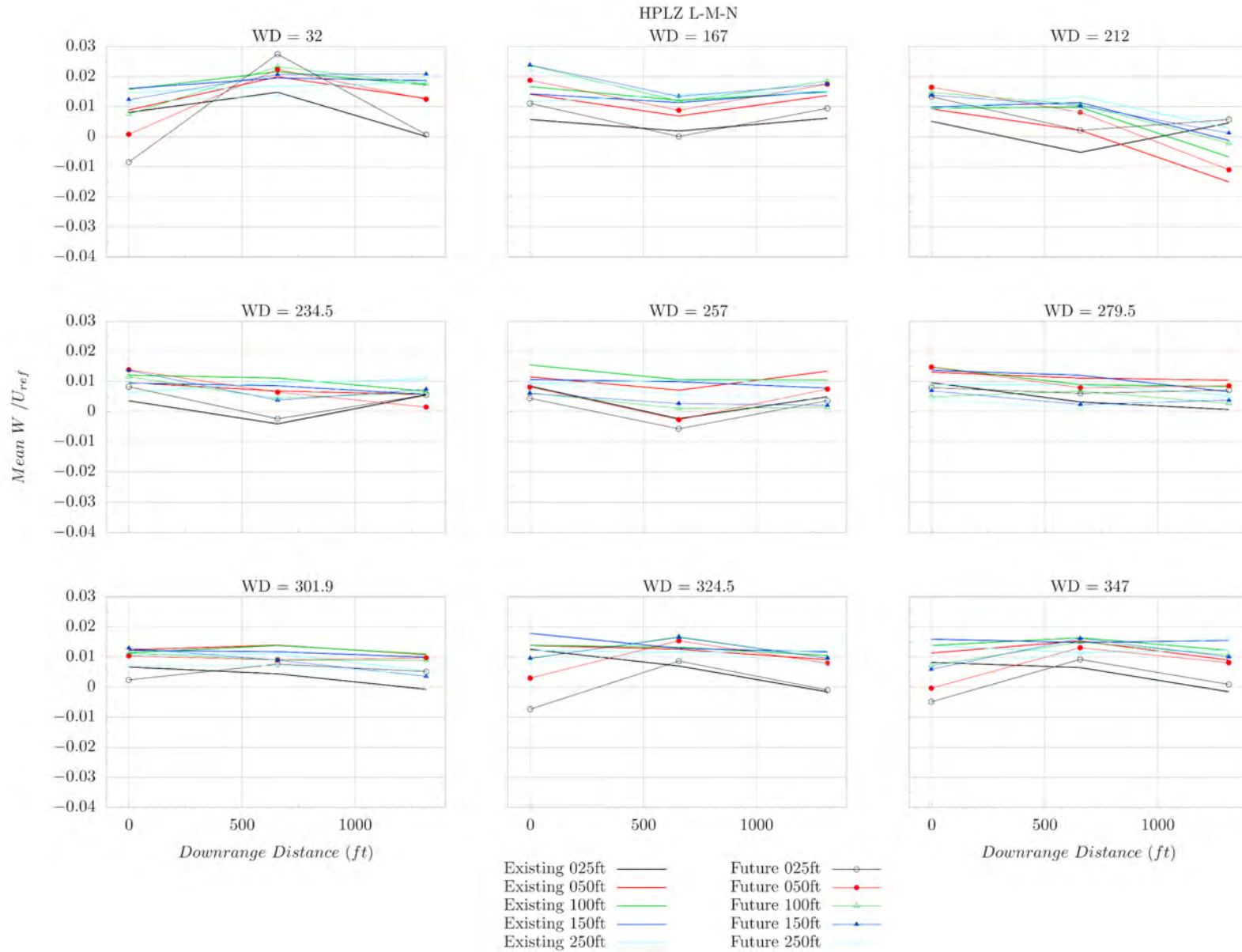


Figure 17: Existing and Future Configurations: High-performance landing zone lane 2 (Points L-N): mean vertical (W) component of velocity normalized by reference velocity U_{ref} .

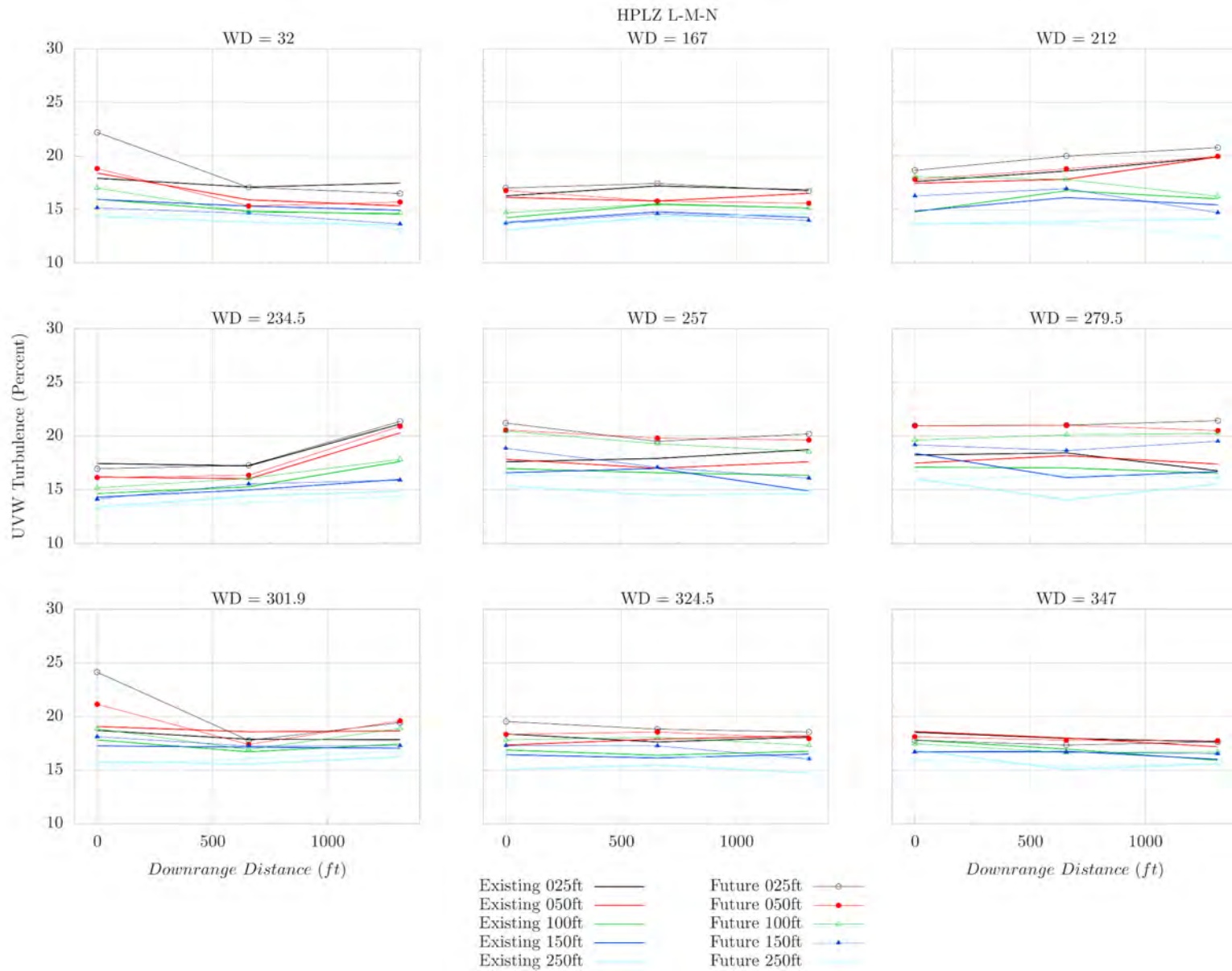


Figure 18: Existing and Future Configurations: High-performance landing zone lane 2 (Points L-N): UVW-component of turbulence intensity normalized by the resultant mean wind velocity ($|UVW|$).

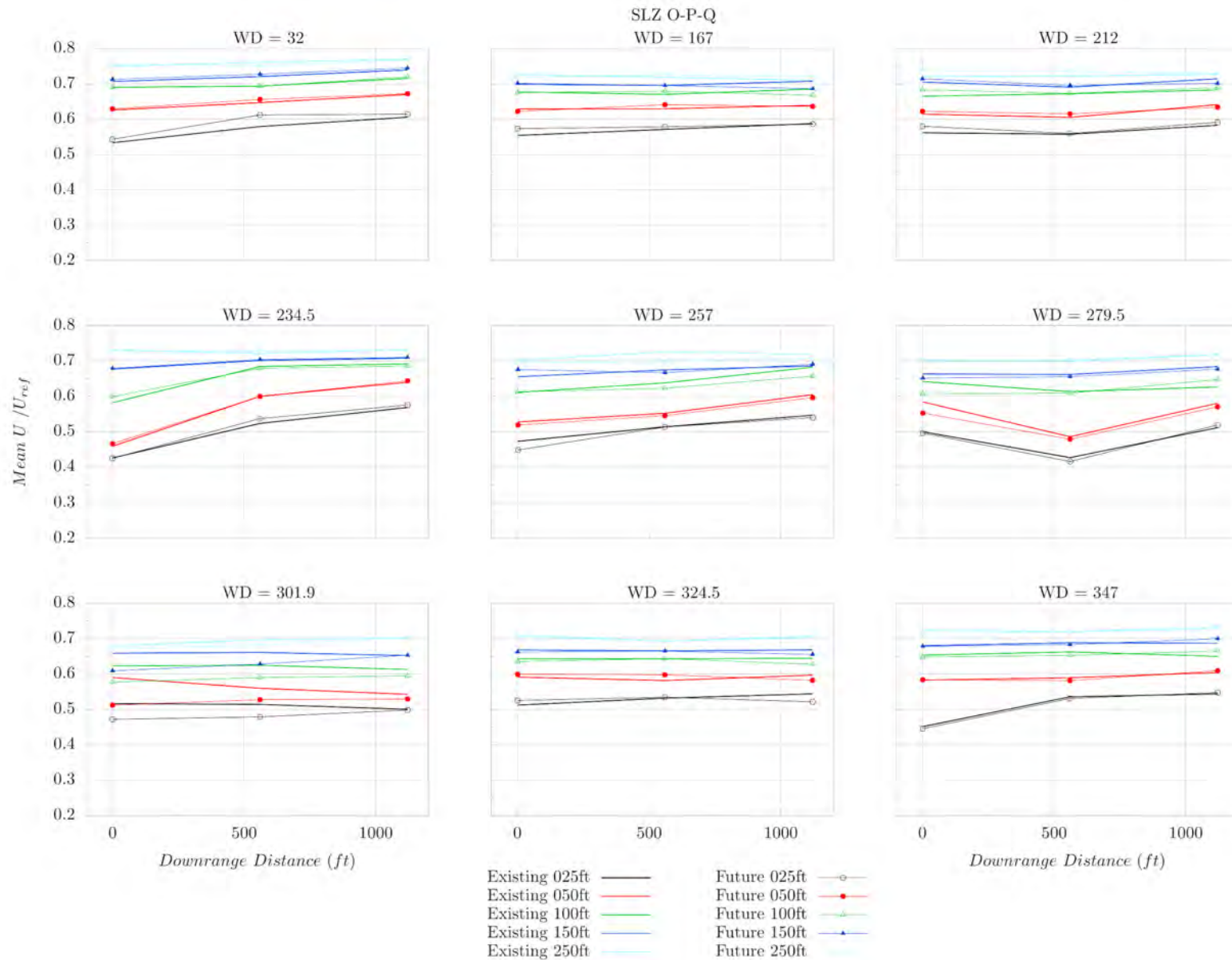


Figure 19: Existing and Future Configurations: Student landing zone lane 1 (Points O-Q): mean along-wind (U) component of velocity normalized by reference velocity U_{ref} .

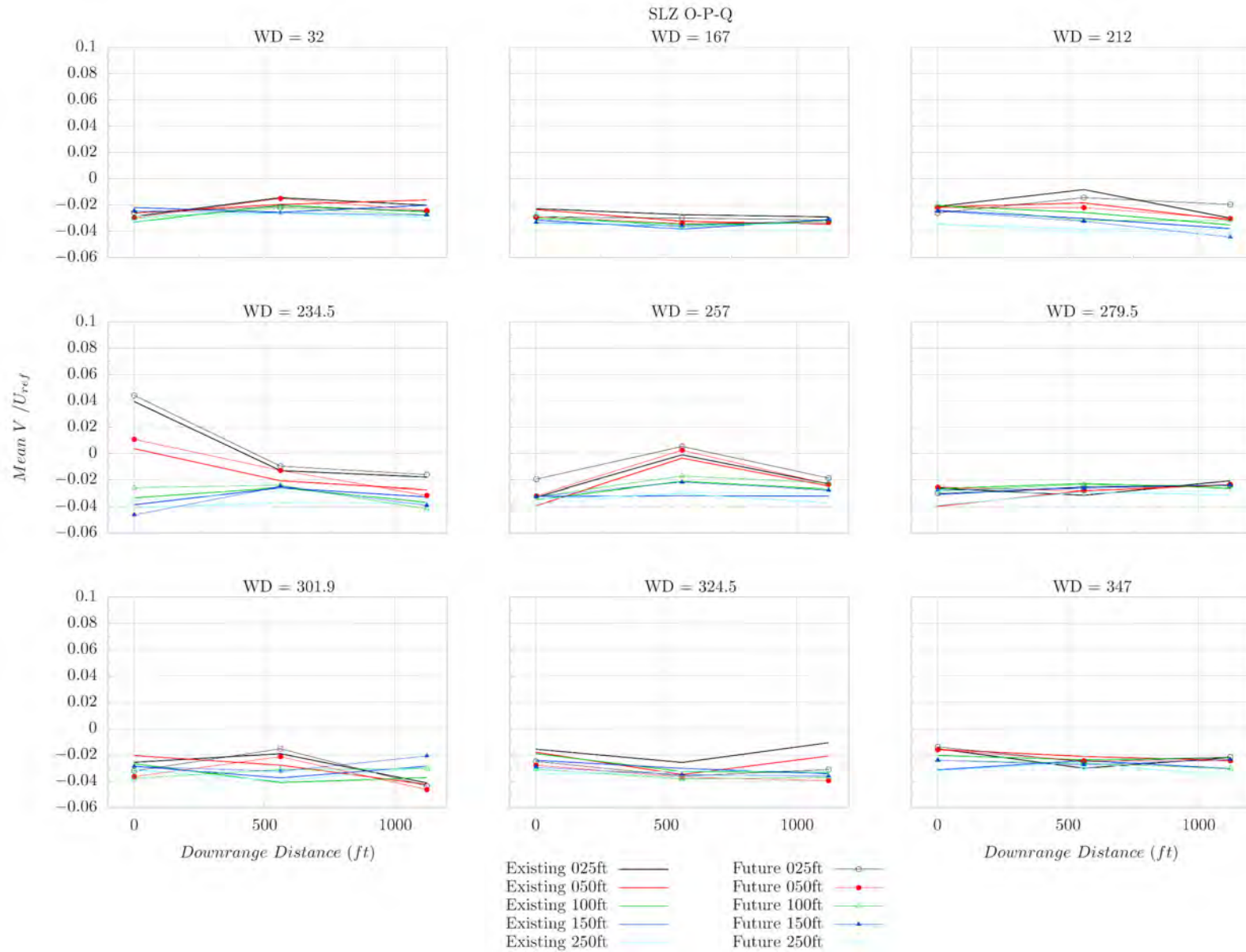


Figure 20: Existing and Future Configurations: Student landing zone lane 1 (Points O-Q): mean cross-wind (V) component of velocity normalized by reference velocity U_{ref} .

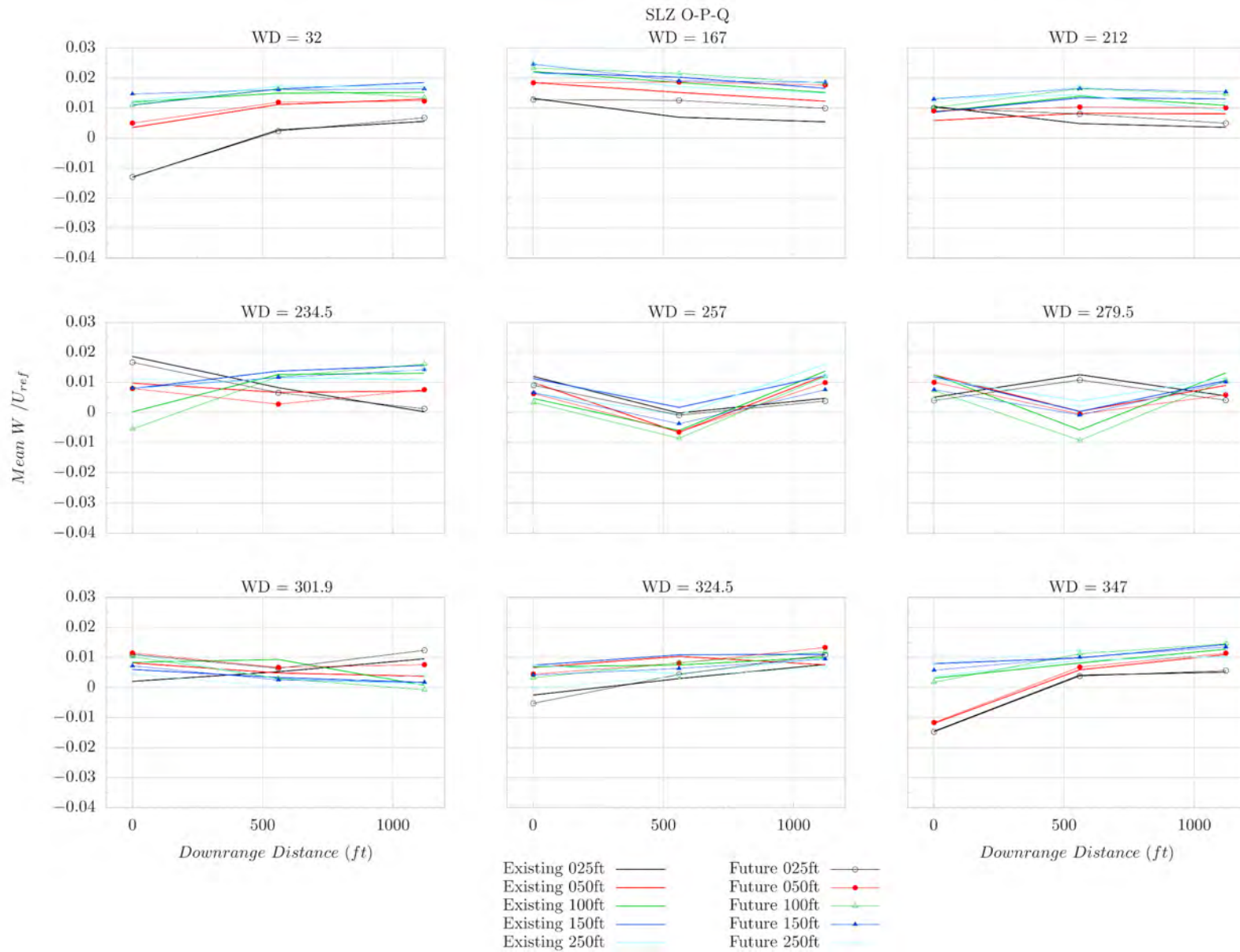


Figure 21: Existing and Future Configurations: Student landing zone lane 1 (Points O-Q): mean vertical (W) component of velocity normalized by reference velocity U_{ref} .

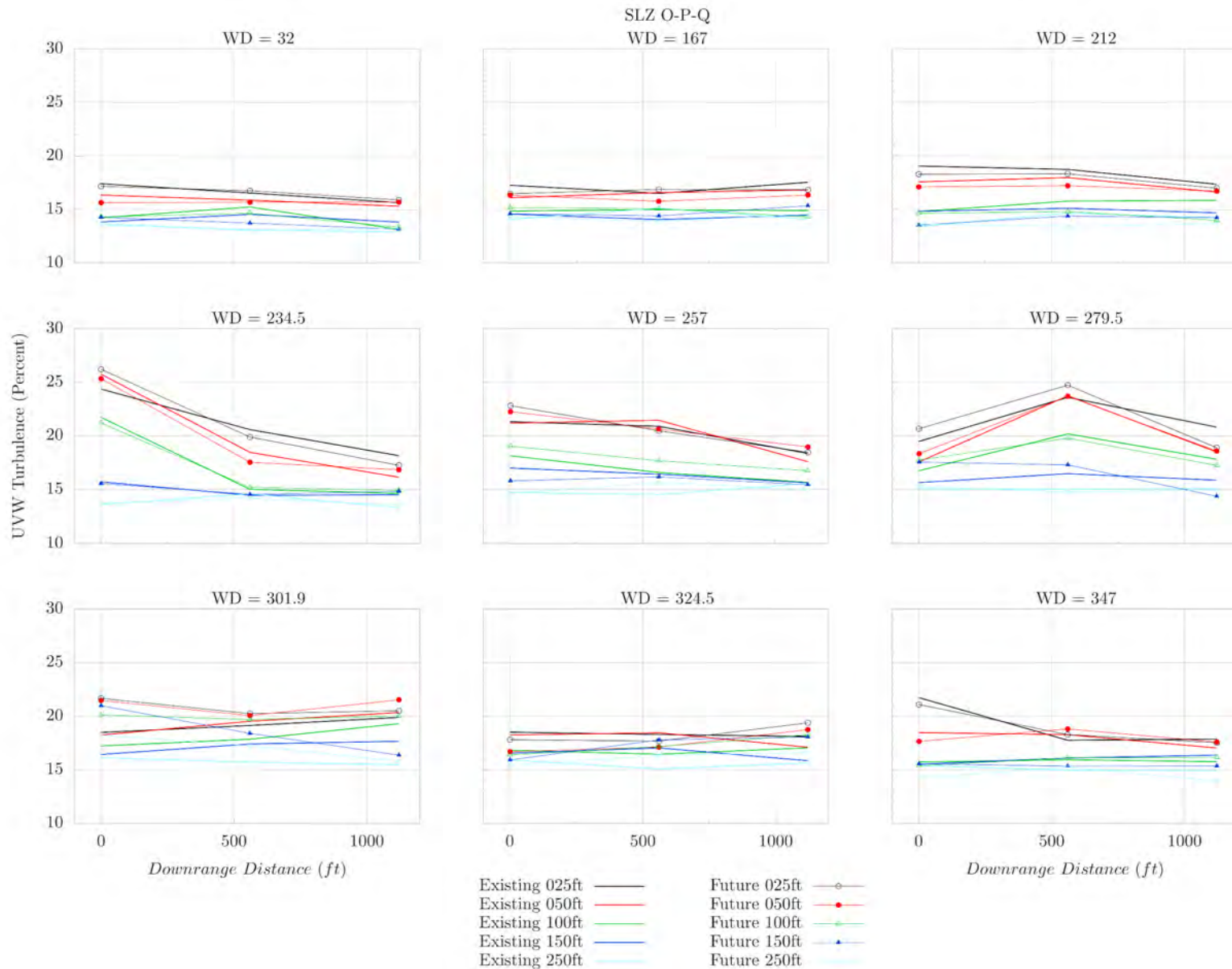


Figure 22: Existing and Future Configurations: Student landing zone lane 1 (Points O-Q): UVW-component of turbulence intensity normalized by the resultant mean wind velocity (\sqrt{UVW}).

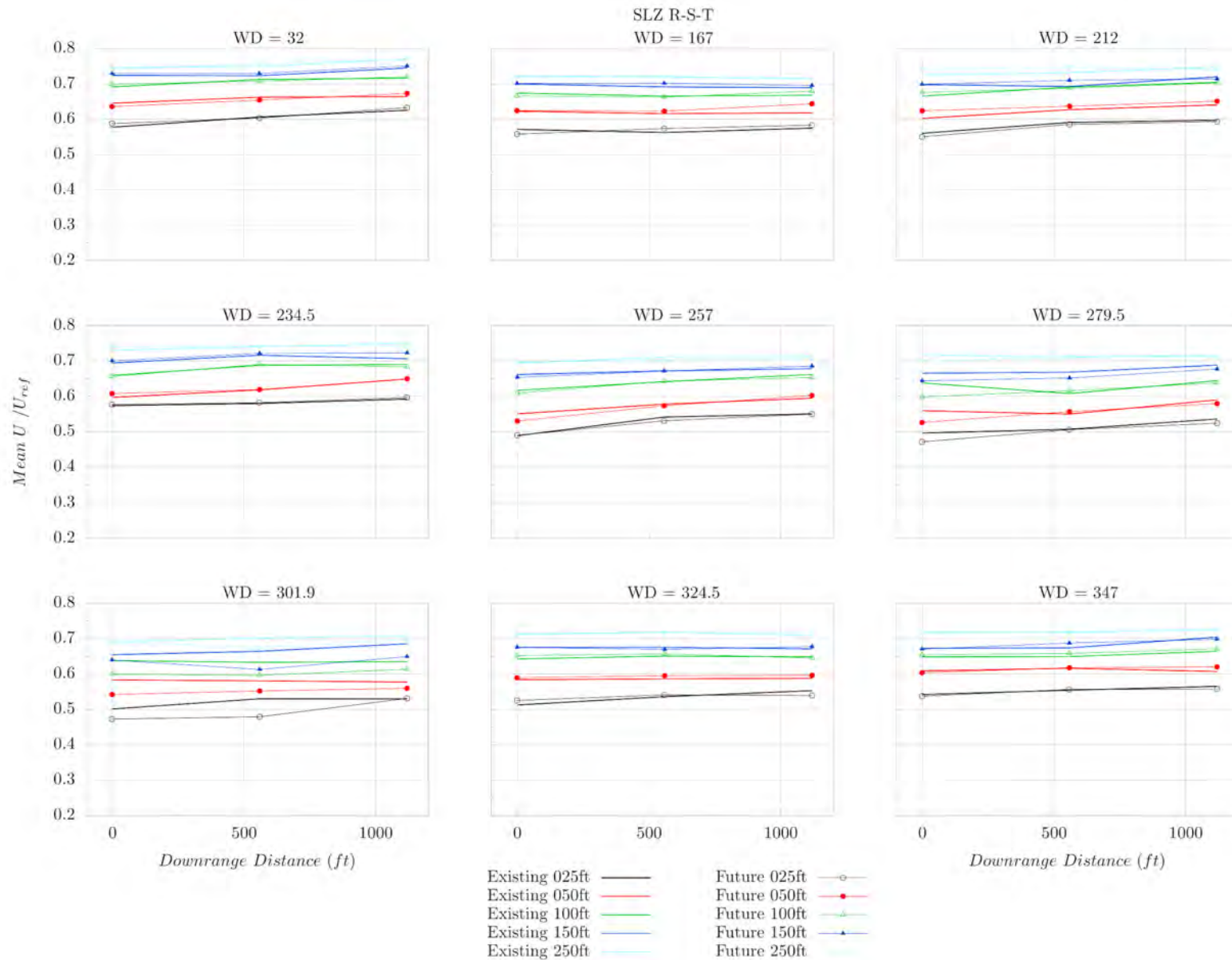


Figure 23: Existing and Future Configurations: Student landing zone lane 2 (Points R-T): mean along-wind (U) component of velocity normalized by reference velocity U_{ref} .

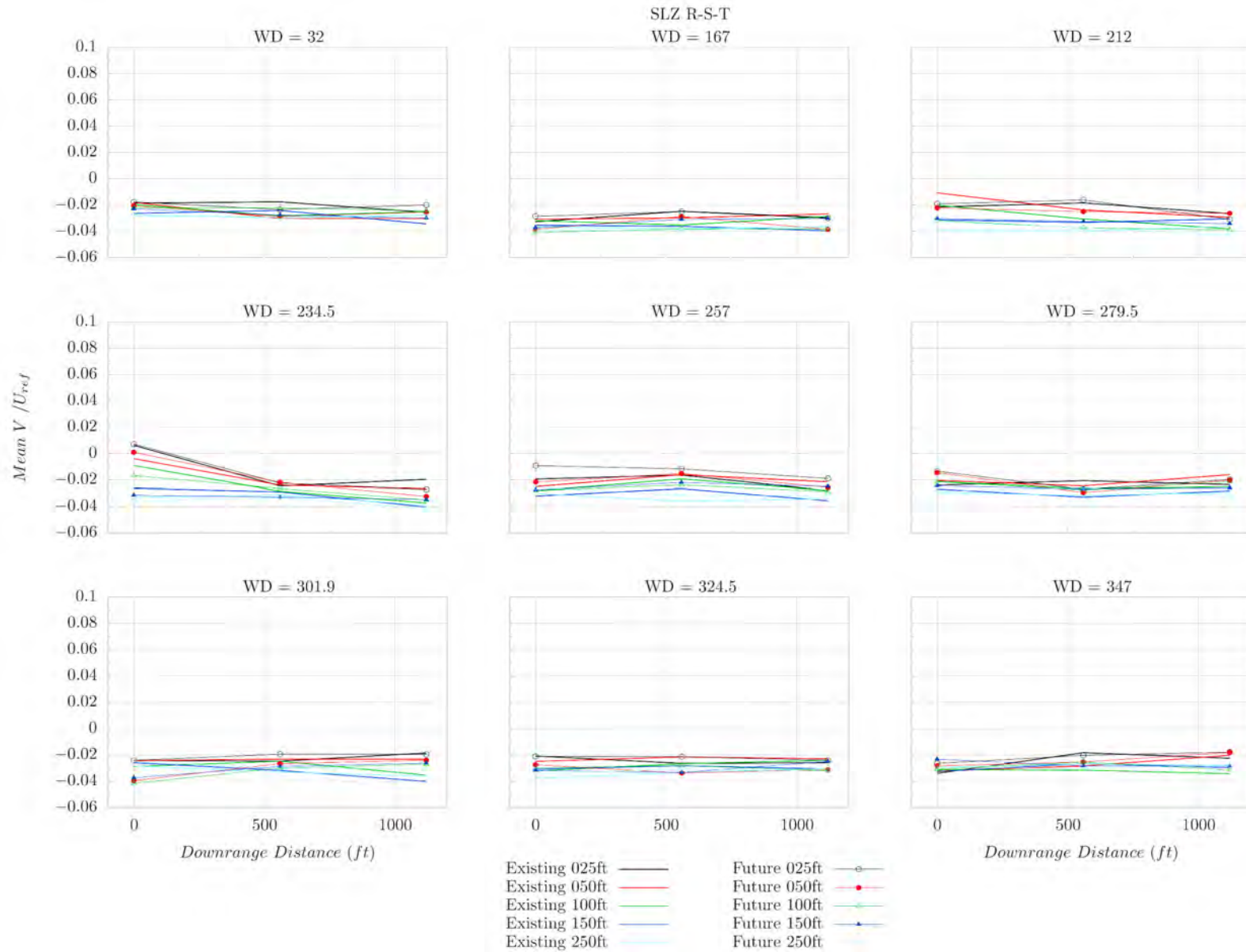


Figure 24: Existing and Future Configurations: Student landing zone lane 2 (Points R-T): mean cross-wind (V) component of velocity normalized by reference velocity U_{ref} .

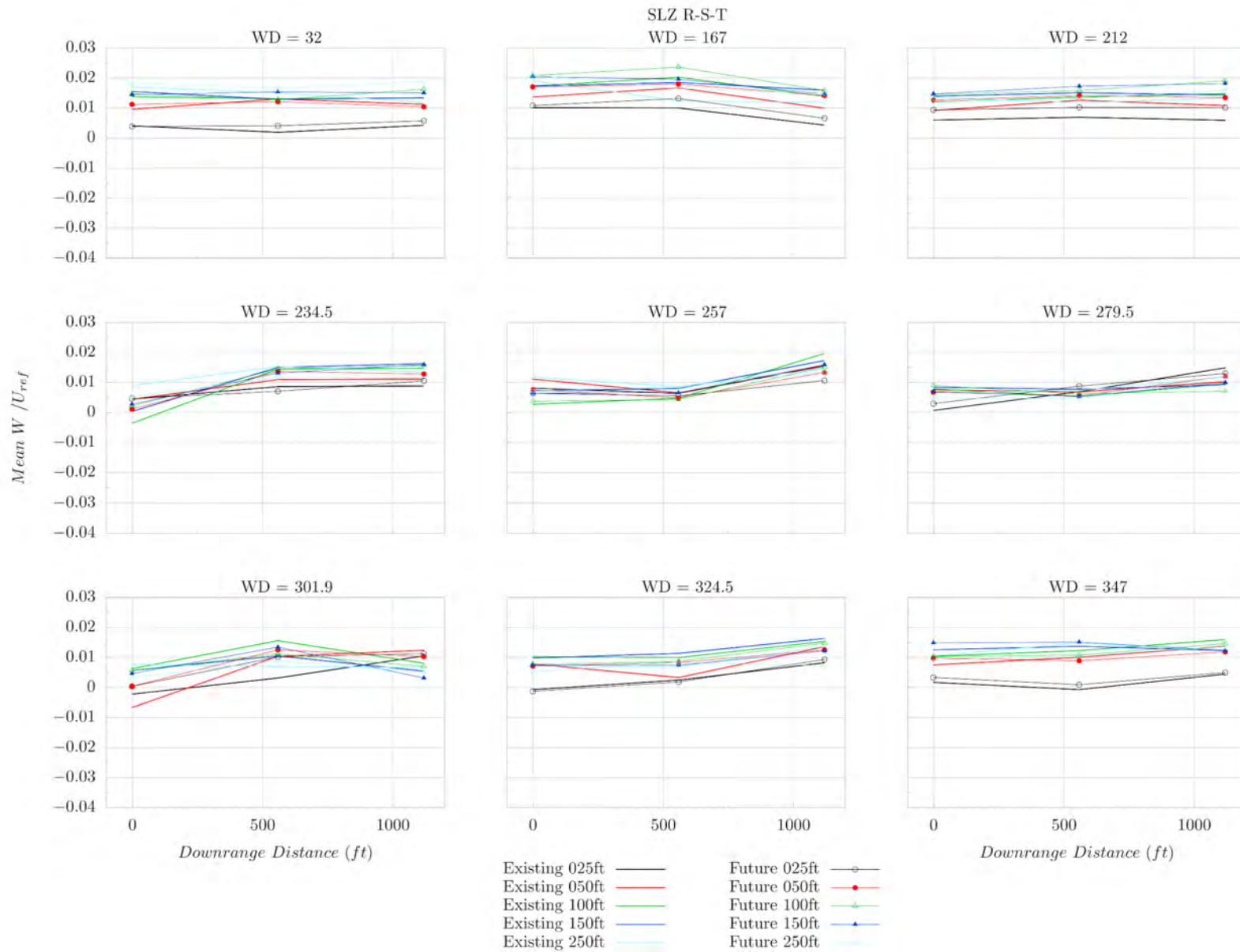


Figure 25: Existing and Future Configurations: Student landing zone lane 2 (Points R-T): mean vertical (W) component of velocity normalized by reference velocity U_{ref} .

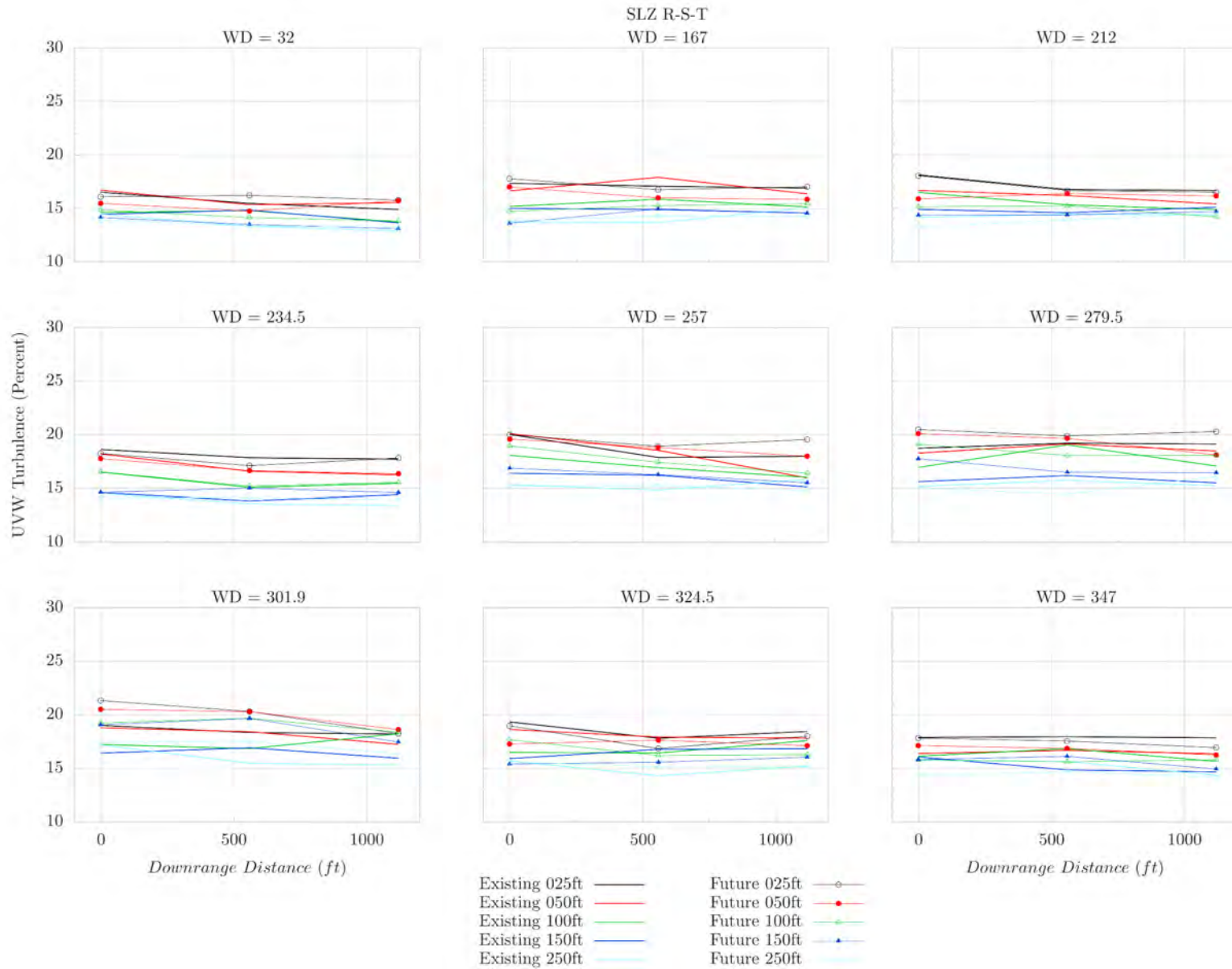


Figure 26: Existing and Future Configurations: Student landing zone lane 2 (Points R-T): UVW-component of turbulence intensity normalized by the resultant mean wind velocity (\sqrt{UVW}).

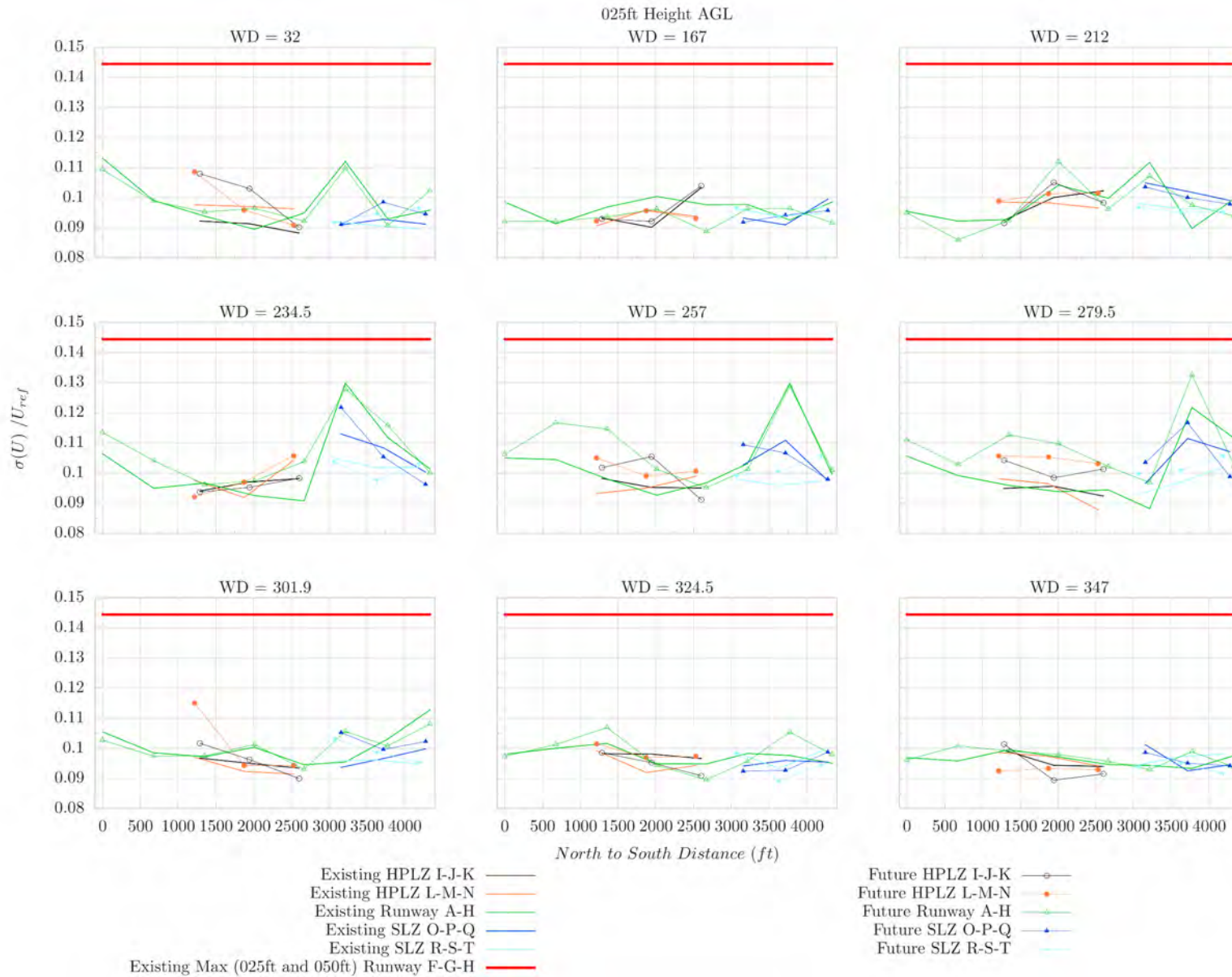


Figure 27: Existing and Future Cumulative Configurations: Sigma (σ) values for along-wind (U) component of turbulence at 25 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

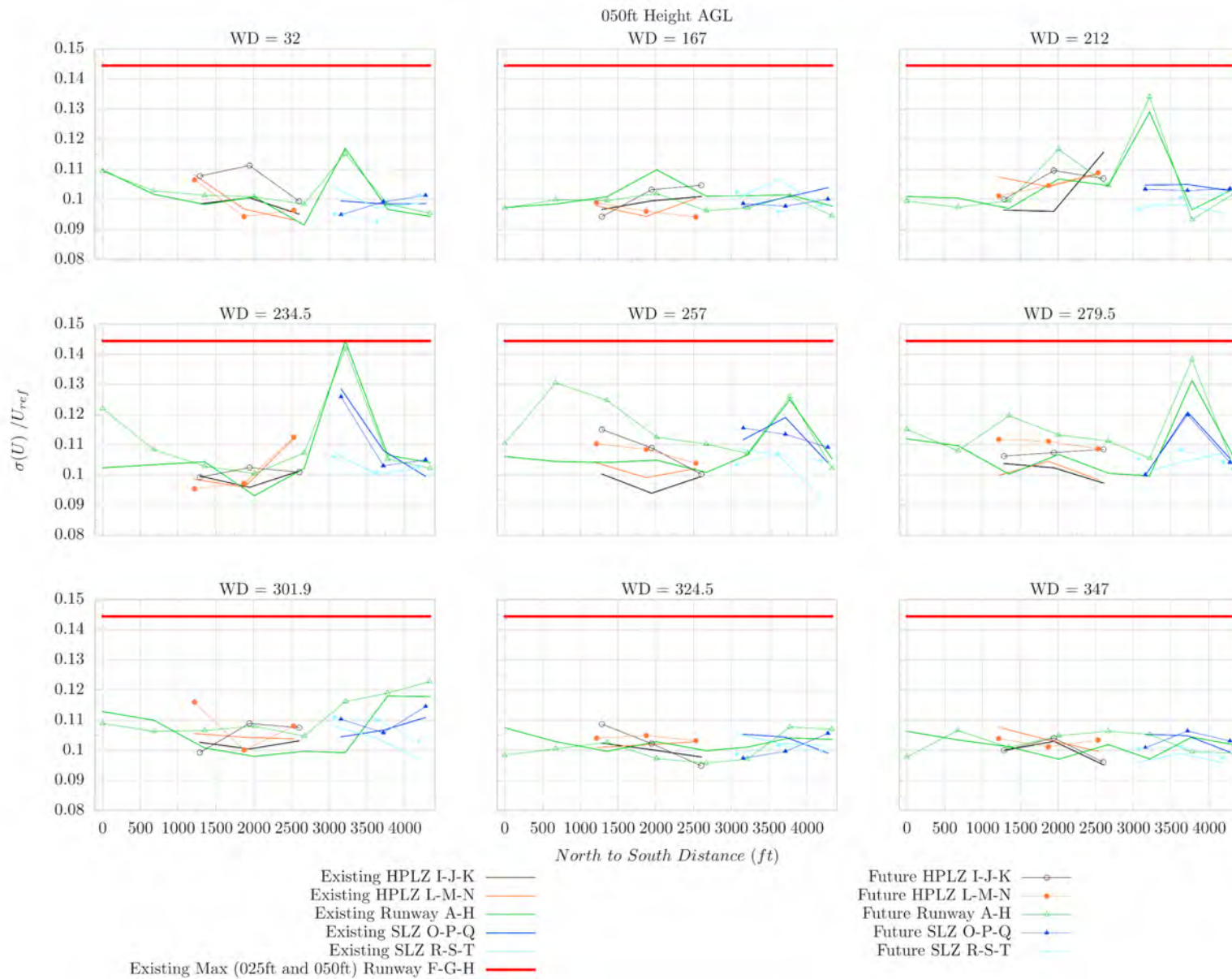


Figure 28: Existing and Future Cumulative Configurations: Sigma (σ) values for along-wind (U) component of turbulence at 50 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

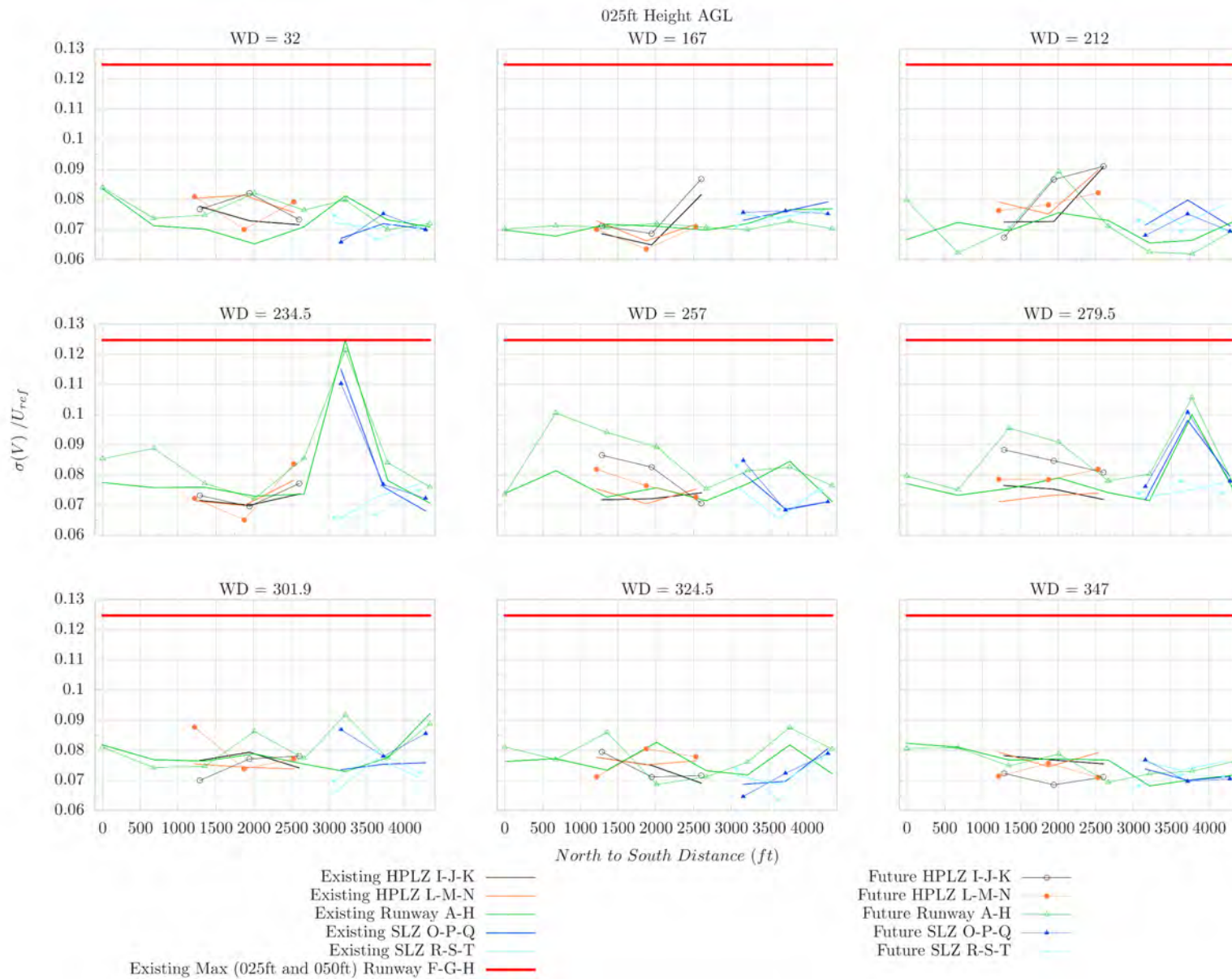


Figure 29: Existing and Future Cumulative Configurations: Sigma (σ) values for cross-wind (V) component of turbulence at 25 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

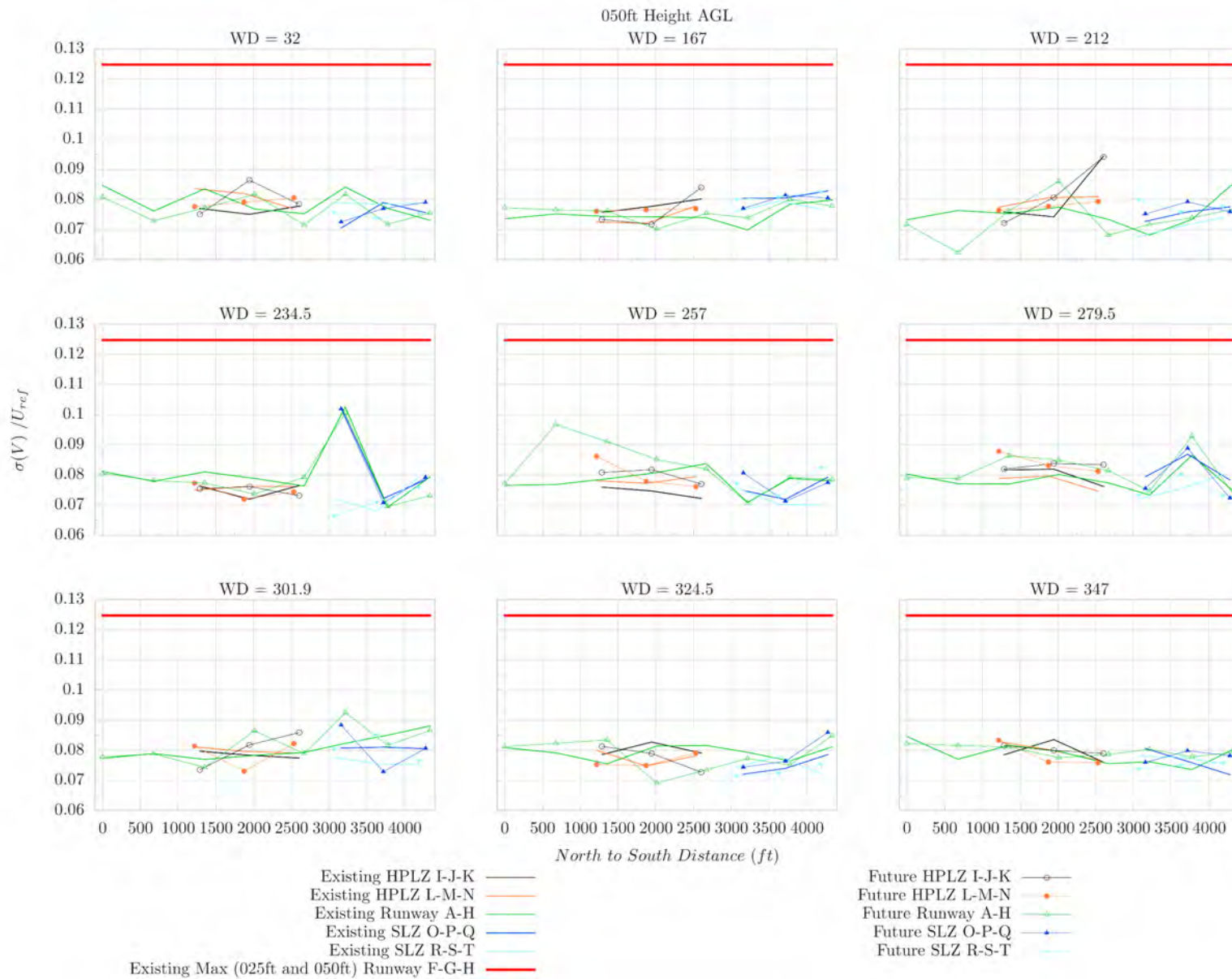


Figure 30: Existing and Future Cumulative Configurations: Sigma (σ) values for cross-wind (V) component of turbulence at 50 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

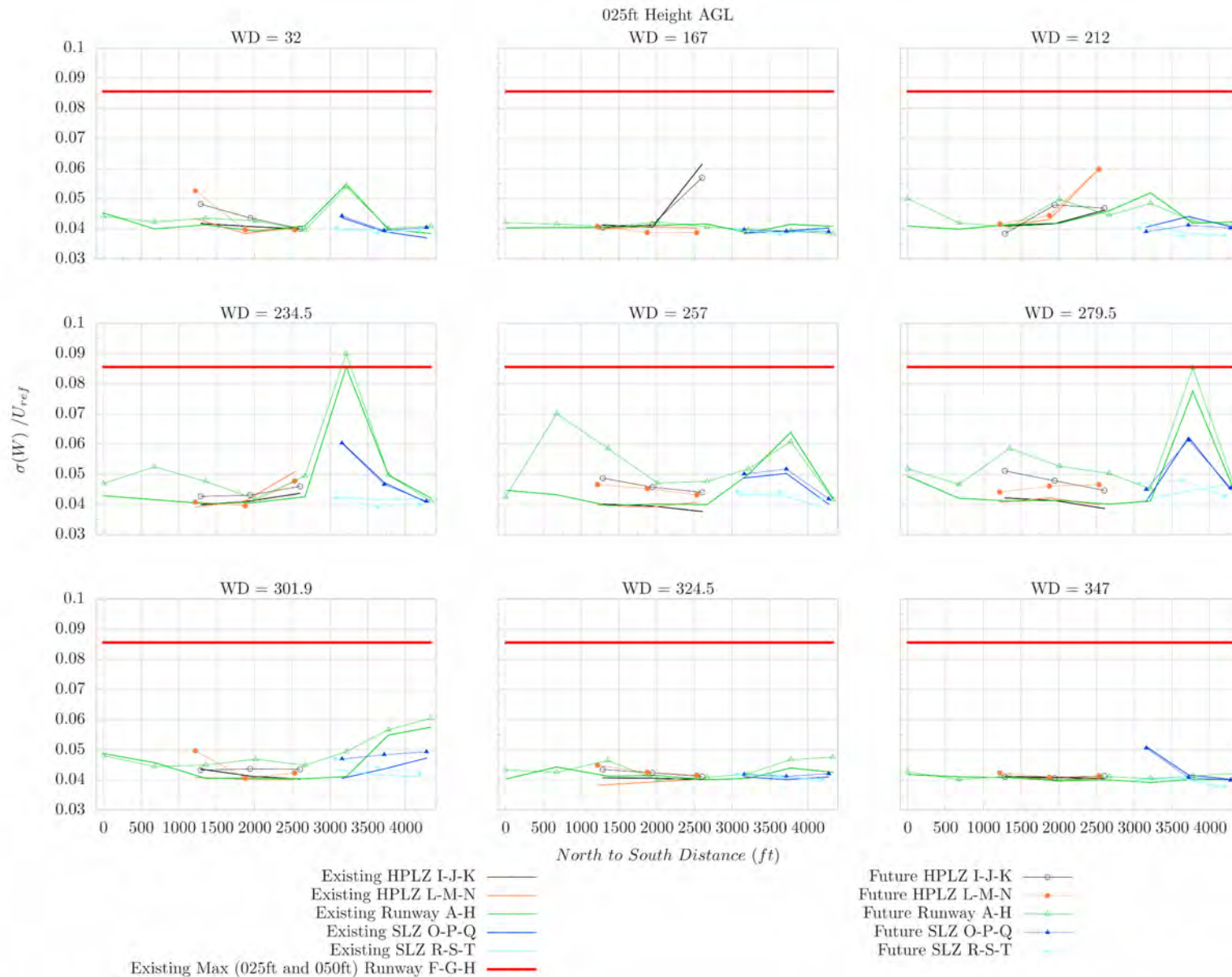


Figure 31: Existing and Future Cumulative Configurations: Sigma (σ) values for vertical (W) component of turbulence at 25 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

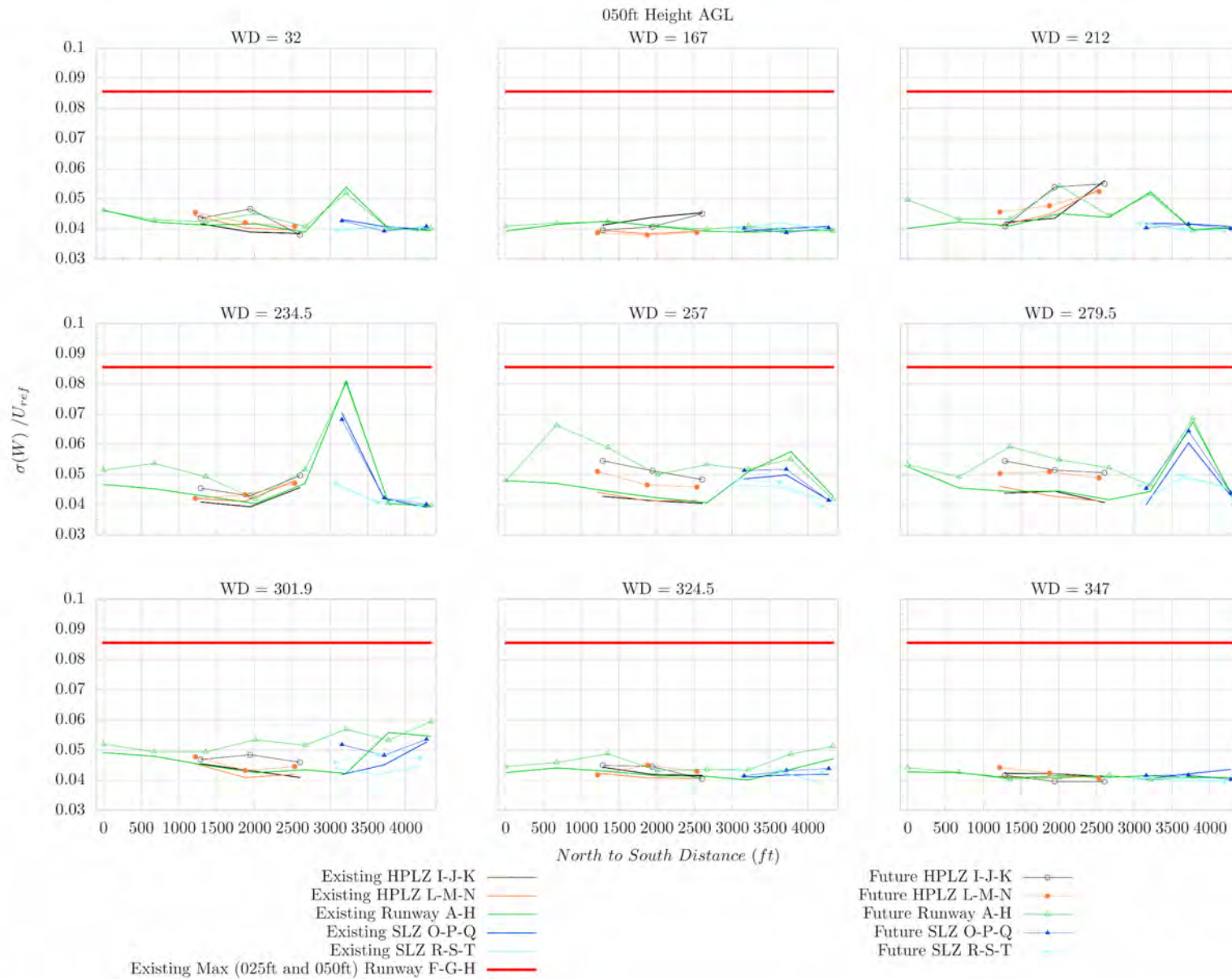


Figure 32: Existing and Future Cumulative Configurations: Sigma (σ) values for vertical (W) component of turbulence at 50 ft height above grade level (AGL) normalized by reference wind speed U_{ref} with existing maximum threshold.

APPENDIX A – GENERAL PROJECT INFORMATION

WIND TUNNEL TEST FACILITIES

The wind tunnel testing was performed at the CPP wind engineering laboratory in Windsor, Colorado. Specifications for the wind tunnel used for this project are given in Figure A1.

Mean velocity and turbulence intensity profiles for the boundary-layer flow approaching the model are determined by means of an AERSURFACE (EPA, 2008) analysis. The mean velocity profile approaching the modeled area for each direction has the form:

$$\frac{U}{U_{ref}} = \left(\frac{z}{z_{ref}} \right)^n$$

in which U is the mean velocity at height z , U_{ref} is a reference wind speed at reference height z_{ref} , and n is a power law exponent which depends on the characteristics of the upstream roughness for each direction. The values of n utilized in this study are provided in Table ES-1. The turbulence intensities are appropriate for the approach mean velocity profiles selected.

CPP Colorado Wind Tunnel

Dimensions

Test section length	72.0 ft (21.95 m)
Test section width	12.0 ft (3.65 m)
Ceiling height	7.83 ft (2.38 m)

Drive Specifications

Total power	200 kW
Type of drive	AC motor/12-blade axial fan
Speed control	Variable frequency drive

Flow Characteristics

Mean velocity	0 to 65 fps (0 to 20 m/s)
Boundary-layer thickness*	Up to 5.0 ft (1.5 m)
Turbulence	About 1% at entrance to test section
Longitudinal pressure gradient	Zeroed by slatted roof plenum

* Function of boundary roughness and thickening devices at test-section entrance

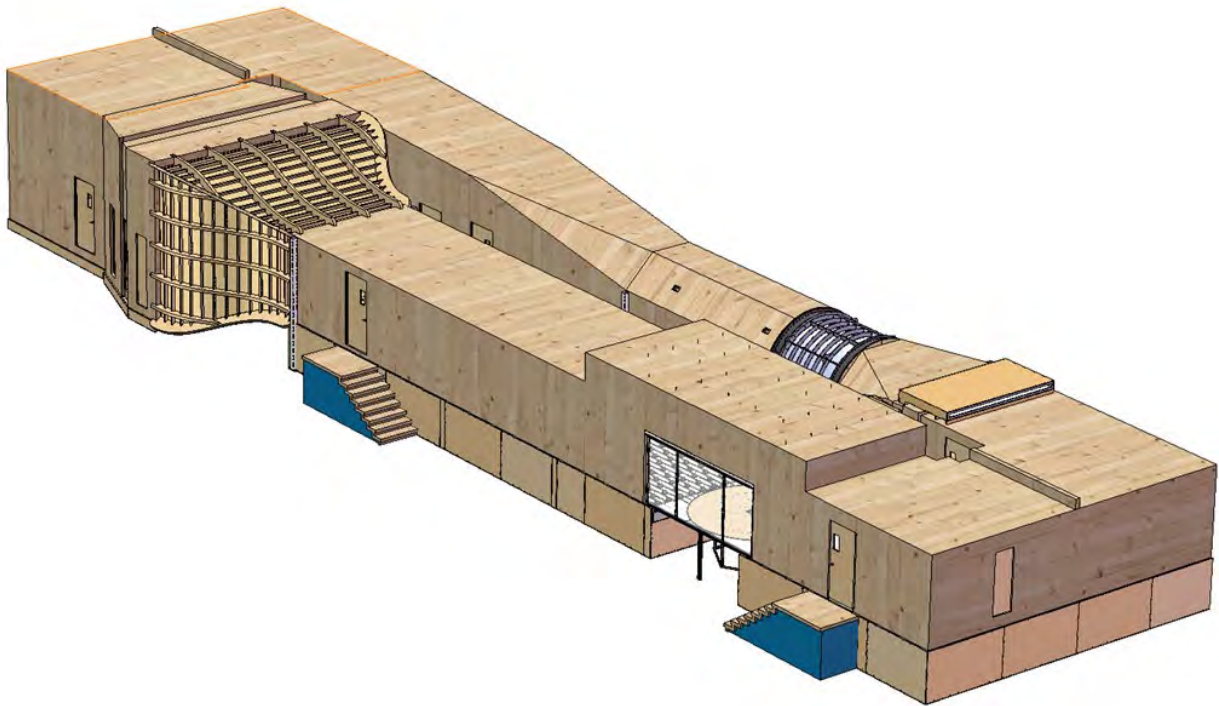


Figure A1: CPP Colorado Wind Tunnel.

PROJECT INFORMATION SOURCES

Proximity Model

1. Google Earth
2. Pictometry

Test Building Model and Surrounding Future Buildings

1. CAD files and PDF renderings of project site as received from Johnson Aviation, Inc. and RGA Architects in July, August, and September of 2023.

APPENDIX B – WIND TUNNEL VELOCITY MEASUREMENT SUPPLEMENTAL DATA

The following tables include tabulated results from the wind tunnel velocity measurements collected by CPP. A turbulence intensity classification has been applied to each measurement based on published information previously discussed in Section 3 of the attached report. The tables have been included again below for reference and resulting turbulence intensity classifications are colored according to the following intensity levels:

The vertical gust intensity applies to the vertical (*W*) component of turbulence while the airspeed fluctuation intensity applies to the along-wind (*U*) and cross wind (*V*) components. Representative values have been computed for a 25-knot wind speed at 10m above grade level at the Perris Valley Airport site and have a 99.6% confidence level (3σ) applied and results are presented as an associated turbulence classification.

Vertical Gust Intensity			Airspeed Fluctuation Intensity	
	(m/s)	(fpm)	(fps)	(kt/s)
Light	1.5	295	5	Light 5
Moderate	6.1	1201	20	Moderate 15
Severe	10.6	2087	35	Severe 25
Extreme	15.2	2992	50	Extreme >>25

Based on the previously presented Joint Probability Distribution of Wind Speed and Wind Direction as applied to Perris Valley Airport, a 25-knot wind speed (~12 m/s) does not occur more than 5% of the time at the site. The only wind direction for which a greater than 1% probability of 25 knot winds exists is 302 degrees (WNW-NW). The neighboring wind directions of 279.5 degrees and 324.5 degrees have a combined probability of just over 1%, weighted toward the 324.5 degree wind direction. A 25-knot representative wind speed was used as a high limit flight condition, with any lower wind speed resulting in a turbulence classification less than that indicated in the following tables. The probability distribution has been included for reference when reviewing the following supplemental data presented on the following pages.

Joint Probability Distribution of Wind Speed and Wind Direction at the March Air Reserve Base (#722860) Anemometer

Category:	1	2	3	4	5	Totals by Direction (%)
Maximum Wind Speed (m/s):	4.0	8.0	12.0	16.0	>16	
Wind Direction (Deg.)						
9.5	1.258	0.431	0.101	0.028	0.003	1.820
32	1.045	0.515	0.068	0.006	0.000	1.635
54.5	0.982	0.794	0.191	0.010	0.001	1.978
77	0.912	0.725	0.213	0.019	0.001	1.871
99.5	1.233	0.429	0.104	0.009	0.000	1.775
122	2.423	0.572	0.023	0.000	0.000	3.018
144.5	3.768	1.208	0.082	0.004	0.000	5.061
167	2.746	0.941	0.089	0.005	0.001	3.782
189.5	1.122	0.295	0.028	0.001	0.000	1.446
212	0.711	0.104	0.007	0.000	0.000	0.823
234.5	0.762	0.121	0.019	0.000	0.000	0.902
257	1.551	0.419	0.077	0.000	0.000	2.047
279.5	5.242	2.665	0.337	0.004	0.000	8.248
302	8.278	10.164	1.456	0.010	0.000	19.907
324.5	5.441	4.778	0.674	0.038	0.003	10.933
347	2.196	0.883	0.321	0.080	0.009	3.488
Calm	31.300					
Totals by Category (%):	70.969	25.043	3.790	0.215	0.017	100
Time Exceeded (%):	29.065	4.022	0.233	0.017	0.000	

Velocity vector information included in the graphical results and presented in the following tables have been normalized per the methodology provided in the Data Collection section of the report. Further explanation of the normalization method for the time series data is provided below for additional clarification.

To define the wind tunnel measured data, let the velocity vector at time t be $v(t) = (u(t), v(t), w(t))$, where $u(t), v(t), w(t)$ are the instantaneous components of velocity along the three axes.

The magnitude of the velocity vector at time t is $|v(t)| = \sqrt{u(t)^2 + v(t)^2 + w(t)^2}$.

The time-averaged values of the individual components are:

$$U = \frac{1}{T} \int_0^T u(t) dt, \quad V = \frac{1}{T} \int_0^T v(t) dt, \quad W = \frac{1}{T} \int_0^T w(t) dt$$

The Pythagorean sum of these time-averaged components is:

$$\sqrt{U^2 + V^2 + W^2}$$

The time-averaged magnitude of the velocity vector is:

$$\langle |v| \rangle = \frac{1}{T} \int_0^T |v(t)| dt = \frac{1}{T} \int_0^T \sqrt{u(t)^2 + v(t)^2 + w(t)^2} dt$$

This time-averaged magnitude $\langle |v| \rangle$ is not the same as the Pythagorean sum of the time-averaged components $\sqrt{U^2 + V^2 + W^2}$.

Why is there a difference between the time-averaged magnitude and the Pythagorean sum of the time averaged components?

The magnitude of a vector involves taking the square root of the sum of squares of its components, which is a nonlinear operation. When you time-average the components $u(t), v(t), w(t)$ first and then compute the magnitude $\sqrt{U^2 + V^2 + W^2}$, you are applying this nonlinearity after the averaging.

In contrast, if you compute the magnitude at each time t , i.e., $|v(t)| = \sqrt{u(t)^2 + v(t)^2 + w(t)^2}$, and then average that magnitude over time, the nonlinearity is applied before averaging.

This leads to the general inequality:

$$\langle |v| \rangle \neq \sqrt{U^2 + V^2 + W^2}$$

For example, consider a simple case where the velocity components oscillate over time, such as $u(t) = A \sin(\omega t)$, $v(t) = A \cos(\omega t)$, and $w(t) = 0$. The time-averaged components are $U = V = W = 0$, but the time-averaged magnitude is $\langle |v| \rangle = A/\sqrt{2}$. This clearly shows that $\langle |v| \rangle \neq \sqrt{U^2 + V^2 + W^2}$, since the right-hand side is zero.

In conclusion, the key point is that because the magnitude is a nonlinear function of the velocity components, the time-averaged magnitude $\langle |v| \rangle$ is not generally equal to the Pythagorean sum of the time-averaged components $\sqrt{U^2 + V^2 + W^2}$. These two operations, averaging and taking the magnitude, do not commute due to the nonlinearity involved in computing the magnitude.

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	101	0	25	32	0.561	-0.028	0.011	0.548	20	21	15	8					0.113	0.084	0.045	Light	Light	Moderate
B	Runway	101	0	25	32	0.57	-0.034	0.009	0.556	20	20	15	8	0.009	-0.006	-0.002	0	0.109	0.084	0.044	Light	Light	Moderate
A	Runway	102	695	25	32	0.569	-0.017	0.007	0.552	18	18	13	7					0.099	0.071	0.040	Light	Light	Light
B	Runway	102	695	25	32	0.547	-0.007	0.005	0.532	18	19	14	8	-0.022	0.01	-0.002	0	0.099	0.074	0.042	Light	Light	Light
A	Runway	103	1389	25	32	0.549	-0.025	0.007	0.535	17	18	13	8					0.094	0.070	0.041	Light	Light	Light
B	Runway	103	1389	25	32	0.517	0	0.002	0.505	18	19	15	9	-0.032	0.025	-0.005	1	0.095	0.075	0.044	Light	Light	Moderate
A	Runway	104	2064	25	32	0.551	-0.025	-0.004	0.535	17	17	12	7					0.090	0.065	0.039	Light	Light	Light
B	Runway	104	2064	25	32	0.527	-0.012	0	0.515	19	19	16	8	-0.024	0.013	0.004	2	0.096	0.082	0.043	Light	Light	Light
A	Runway	105	2739	25	32	0.57	-0.033	-0.001	0.554	17	17	13	7					0.095	0.071	0.041	Light	Light	Light
B	Runway	105	2739	25	32	0.564	-0.021	0.003	0.548	17	17	14	7	-0.006	0.012	0.004	0	0.092	0.076	0.040	Light	Light	Light
A	Runway	106	3300	25	32	0.498	0.007	0.002	0.491	22	23	17	11					0.112	0.081	0.055	Light	Light	Moderate
B	Runway	106	3300	25	32	0.508	0.006	0.004	0.499	21	22	16	11	0.01	-0.001	0.002	-1	0.110	0.080	0.054	Light	Light	Moderate
A	Runway	107	3875	25	32	0.571	-0.009	0.002	0.554	17	17	13	7					0.093	0.073	0.040	Light	Light	Light
B	Runway	107	3875	25	32	0.58	-0.013	0.005	0.562	16	16	12	7	0.009	-0.004	0.003	-1	0.091	0.070	0.040	Light	Light	Light
A	Runway	108	4450	25	32	0.604	-0.025	0.005	0.585	17	16	12	7					0.096	0.071	0.038	Light	Light	Light
B	Runway	108	4450	25	32	0.605	-0.027	0.007	0.586	17	17	12	7	0.001	-0.002	0.002	0	0.102	0.072	0.041	Light	Light	Light
A	Runway	111	0	50	32	0.61	-0.027	0.013	0.593	19	19	14	8					0.110	0.085	0.046	Light	Light	Moderate
B	Runway	111	0	50	32	0.601	-0.035	0.013	0.585	19	19	14	8	-0.009	-0.008	0	0	0.109	0.081	0.046	Light	Light	Moderate
A	Runway	112	695	50	32	0.625	-0.025	0.012	0.606	17	17	13	7					0.102	0.076	0.042	Light	Light	Light
B	Runway	112	695	50	32	0.592	-0.018	0.011	0.575	18	18	13	7	-0.033	0.007	-0.001	1	0.103	0.073	0.043	Light	Light	Light
A	Runway	113	1389	50	32	0.618	-0.036	0.012	0.600	16	16	14	7					0.098	0.084	0.041	Light	Light	Light
B	Runway	113	1389	50	32	0.58	-0.011	0.01	0.564	18	18	14	8	-0.038	0.025	-0.002	2	0.101	0.077	0.042	Light	Light	Light
A	Runway	114	2064	50	32	0.607	-0.024	0.007	0.588	17	17	13	7					0.101	0.077	0.042	Light	Light	Light
B	Runway	114	2064	50	32	0.565	-0.02	0.012	0.551	18	18	15	8	-0.042	0.004	0.005	1	0.101	0.082	0.045	Light	Light	Moderate
A	Runway	115	2739	50	32	0.634	-0.029	0.008	0.613	15	15	12	6					0.092	0.075	0.039	Light	Light	Light
B	Runway	115	2739	50	32	0.629	-0.03	0.014	0.608	16	16	12	7	-0.005	-0.001	0.006	1	0.098	0.072	0.041	Light	Light	Light
A	Runway	116	3300	50	32	0.571	-0.007	-0.003	0.558	20	21	15	10					0.117	0.084	0.054	Light	Light	Moderate
B	Runway	116	3300	50	32	0.582	-0.002	-0.004	0.567	20	20	14	9	0.011	0.005	-0.001	0	0.115	0.082	0.052	Light	Light	Moderate
A	Runway	117	3875	50	32	0.636	-0.012	0.015	0.615	16	16	13	7					0.097	0.077	0.040	Light	Light	Light
B	Runway	117	3875	50	32	0.632	-0.016	0.017	0.611	16	16	12	7	-0.004	-0.004	0.002	0	0.099	0.072	0.040	Light	Light	Light
A	Runway	118	4450	50	32	0.664	-0.018	0.013	0.641	15	15	11	6					0.094	0.073	0.039	Light	Light	Light
B	Runway	118	4450	50	32	0.65	-0.026	0.015	0.628	15	15	12	6	-0.014	-0.008	0.002	0	0.095	0.076	0.040	Light	Light	Light
A	Runway	121	0	100	32	0.669	-0.027	0.01	0.647	16	16	13	7					0.104	0.084	0.047	Light	Light	Moderate
B	Runway	121	0	100	32	0.664	-0.024	0.016	0.643	17	17	13	8	-0.005	0.003	0.006	1	0.108	0.083	0.049	Light	Light	Moderate
A	Runway	122	695	100	32	0.683	-0.023	0.015	0.660	15	15	13	7					0.102	0.084	0.044	Light	Light	Moderate
B	Runway	122	695	100	32	0.66	-0.022	0.017	0.639	15	15	12	7	-0.023	0.001	0.002	0	0.098	0.080	0.045	Light	Light	Moderate
A	Runway	123	1389	100	32	0.671	-0.026	0.015	0.649	15	15	13	7					0.096	0.084	0.044	Light	Light	Moderate
B	Runway	123	1389	100	32	0.656	-0.02	0.013	0.635	15	16	13	7	-0.015	0.006	-0.002	0	0.099	0.082	0.044	Light	Light	Moderate
A	Runway	124	2064	100	32	0.67	-0.028	0.016	0.648	16	16	12	7					0.102	0.081	0.044	Light	Light	Moderate
B	Runway	124	2064	100	32	0.651	-0.026	0.011	0.631	17	17	13	7	-0.019	0.002	-0.005	1	0.105	0.084	0.046	Light	Light	Moderate
A	Runway	125	2739	100	32	0.701	-0.027	0.015	0.676	15	15	12	6					0.099	0.083	0.042	Light	Light	Light
B	Runway	125	2739	100	32	0.688	-0.027	0.014	0.664	15	15	13	7	-0.013	0	-0.001	0	0.100	0.084	0.045	Light	Light	Moderate
A	Runway	126	3300	100	32	0.661	-0.024	0.008	0.639	15	15	13	7					0.098	0.083	0.044	Light	Light	Moderate
B	Runway	126	3300	100	32	0.674	-0.021	0.007	0.650	15	15	12	7	0.013	0.003	-0.001	0	0.099	0.078	0.044	Light	Light	Moderate
A	Runway	127	3875	100	32	0.694	-0.018	0.021	0.670	15	15	12	7					0.097	0.082	0.044	Light	Light	Moderate
B	Runway	127	3875	100	32	0.685	-0.013	0.023	0.661	14	14	12	7	-0.009	0.005	0.002	-1	0.093	0.080	0.043	Light	Light	Light
A	Runway	128	4450	100	32	0.707	-0.023	0.016	0.681	13	13	11	6					0.091	0.076	0.044	Light	Light	Moderate
B	Runway	128	4450	100	32	0.717	-0.032	0.02	0.692	14	14	12	6	0.01	-0.009	0.004	1	0.095	0.082	0.042	Light	Light	Light
A	Runway	131	0	150	32	0.705	-0.033	0.014	0.681	16	16	12	8					0.107	0.083	0.051	Light	Light	Moderate
B	Runway	131	0	150	32	0.689	-0.031	0.016	0.667	15	15	12	8	-0.016	0.002	0.002	-1	0.099	0.082	0.052	Light	Light	Moderate
A	Runway	132	695	150	32	0.689	-0.037	0.017	0.666	15	15	13	7					0.101	0.084	0.049	Light	Light	Moderate
B	Runway	132	695	150	32	0.695	-0.023	0.017	0.671	15	15	12	7	0.006	0.014	0	0	0.099	0.081	0.048	Light	Light	Moderate
A	Runway	133	1389	150	32	0.689	-0.036	0.016	0.666	14	14	12	7					0.091	0.083	0.048	Light	Light	Moderate
B	Runway	133	1389	150	32	0.686	-0.022	0.018	0.663	15	15	13	7	-0.003	0.014	0.002	1	0.101	0.084	0.048	Light	Light	Moderate
A	Runway	134	2064	150	32	0.696	-0.03	0.016	0.673	14	14	13	7					0.095	0.085	0.046	Light	Light	Moderate
B	Runway	134	2064	150	32	0.696	-0.021	0.017	0.672	15	15	12	7	0	0.009	0.001	1	0.101	0.083	0.047	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	115	2739	50	167	0.629	-0.026	0.009	0.609	17	17	12	6					0.101	0.074	0.039	Light	Light	Light
B	Runway	115	2739	50	167	0.629	-0.032	0.014	0.609	16	16	12	7	0	-0.006	0.005	-1	0.096	0.075	0.040	Light	Light	Light
A	Runway	116	3300	50	167	0.618	-0.021	0.013	0.598	17	17	12	7					0.101	0.070	0.039	Light	Light	Light
B	Runway	116	3300	50	167	0.626	-0.023	0.017	0.606	16	16	12	7	0.008	-0.002	0.004	-1	0.097	0.074	0.041	Light	Light	Light
A	Runway	117	3875	50	167	0.629	-0.035	0.016	0.609	17	17	13	6					0.102	0.078	0.039	Light	Light	Light
B	Runway	117	3875	50	167	0.629	-0.033	0.019	0.610	17	17	13	6	0	0.002	0.003	0	0.101	0.080	0.039	Light	Light	Light
A	Runway	118	4450	50	167	0.639	-0.025	0.013	0.618	16	16	13	6					0.098	0.080	0.040	Light	Light	Light
B	Runway	118	4450	50	167	0.628	-0.025	0.016	0.608	16	16	13	6	-0.011	0	0.003	0	0.095	0.078	0.039	Light	Light	Light
A	Runway	121	0	100	167	0.705	-0.024	0.017	0.680	15	15	12	7					0.099	0.081	0.045	Light	Light	Moderate
B	Runway	121	0	100	167	0.69	-0.02	0.017	0.665	15	15	11	7	-0.015	0.004	0	0	0.099	0.074	0.045	Light	Light	Moderate
A	Runway	122	695	100	167	0.672	-0.022	0.015	0.649	15	15	12	7					0.097	0.077	0.045	Light	Light	Moderate
B	Runway	122	695	100	167	0.683	-0.022	0.013	0.659	15	15	11	7	0.011	0	-0.002	0	0.102	0.072	0.043	Light	Light	Light
A	Runway	123	1389	100	167	0.66	-0.019	0.012	0.638	16	16	12	7					0.102	0.074	0.044	Light	Light	Moderate
B	Runway	123	1389	100	167	0.676	-0.026	0.014	0.652	15	15	12	7	0.016	-0.007	0.002	-1	0.096	0.076	0.043	Light	Light	Light
A	Runway	124	2064	100	167	0.683	-0.029	0.013	0.659	15	15	12	7					0.100	0.077	0.044	Light	Light	Moderate
B	Runway	124	2064	100	167	0.683	-0.024	0.015	0.659	15	15	12	7	0	0.005	0.002	0	0.097	0.078	0.043	Light	Light	Light
A	Runway	125	2739	100	167	0.683	-0.032	0.016	0.659	14	14	11	6					0.095	0.076	0.042	Light	Light	Light
B	Runway	125	2739	100	167	0.682	-0.044	0.022	0.660	15	15	12	7	-0.001	-0.012	0.006	1	0.099	0.082	0.043	Light	Light	Light
A	Runway	126	3300	100	167	0.68	-0.028	0.019	0.657	15	15	12	6					0.099	0.081	0.041	Light	Light	Light
B	Runway	126	3300	100	167	0.676	-0.031	0.022	0.654	15	15	13	6	-0.004	-0.003	0.003	0	0.100	0.083	0.041	Light	Light	Light
A	Runway	127	3875	100	167	0.669	-0.039	0.019	0.648	16	16	13	7					0.102	0.085	0.045	Light	Light	Moderate
B	Runway	127	3875	100	167	0.684	-0.036	0.024	0.662	15	15	13	7	0.015	0.003	0.005	-1	0.102	0.087	0.043	Light	Light	Light
A	Runway	128	4450	100	167	0.684	-0.032	0.015	0.662	15	15	13	7					0.097	0.085	0.046	Light	Light	Moderate
B	Runway	128	4450	100	167	0.69	-0.037	0.019	0.667	15	15	13	7	0.006	-0.005	0.004	0	0.102	0.085	0.044	Light	Light	Moderate
A	Runway	131	0	150	167	0.715	-0.029	0.021	0.690	15	15	11	7					0.101	0.079	0.047	Light	Light	Moderate
B	Runway	131	0	150	167	0.724	-0.025	0.016	0.698	14	14	12	7	0.009	0.004	-0.005	-1	0.100	0.081	0.047	Light	Light	Moderate
A	Runway	132	695	150	167	0.7	-0.025	0.015	0.675	15	15	12	7					0.101	0.078	0.047	Light	Light	Moderate
B	Runway	132	695	150	167	0.711	-0.023	0.015	0.685	14	14	11	7	0.011	0.002	0	-1	0.096	0.077	0.049	Light	Light	Moderate
A	Runway	133	1389	150	167	0.71	-0.031	0.015	0.685	15	15	12	7					0.104	0.080	0.048	Light	Light	Moderate
B	Runway	133	1389	150	167	0.714	-0.024	0.016	0.689	15	15	12	7	0.004	0.007	0.001	0	0.102	0.081	0.047	Light	Light	Moderate
A	Runway	134	2064	150	167	0.707	-0.027	0.015	0.682	15	15	12	7					0.104	0.082	0.050	Light	Light	Moderate
B	Runway	134	2064	150	167	0.713	-0.029	0.017	0.688	14	14	11	7	0.006	-0.002	0.002	-1	0.094	0.078	0.048	Light	Light	Moderate
A	Runway	135	2739	150	167	0.704	-0.033	0.021	0.680	15	15	12	7					0.099	0.082	0.047	Light	Light	Moderate
B	Runway	135	2739	150	167	0.702	-0.04	0.021	0.678	15	15	12	7	-0.002	-0.007	0	0	0.100	0.081	0.047	Light	Light	Moderate
A	Runway	136	3300	150	167	0.707	-0.025	0.023	0.682	14	14	12	7					0.096	0.084	0.046	Light	Light	Moderate
B	Runway	136	3300	150	167	0.709	-0.03	0.021	0.685	14	14	12	7	0.002	-0.005	-0.002	0	0.097	0.084	0.047	Light	Light	Moderate
A	Runway	137	3875	150	167	0.704	-0.031	0.016	0.680	14	14	12	7					0.097	0.082	0.048	Light	Light	Moderate
B	Runway	137	3875	150	167	0.685	-0.036	0.025	0.662	15	15	12	7	-0.019	-0.005	0.009	1	0.097	0.082	0.047	Light	Light	Moderate
A	Runway	138	4450	150	167	0.703	-0.033	0.016	0.679	15	15	13	8					0.100	0.085	0.052	Light	Light	Moderate
B	Runway	138	4450	150	167	0.701	-0.038	0.02	0.678	14	14	13	7	-0.002	-0.005	0.004	-1	0.093	0.086	0.050	Light	Light	Moderate
A	Runway	141	0	250	167	0.75	-0.026	0.018	0.723	14	14	11	8					0.098	0.082	0.054	Light	Light	Moderate
B	Runway	141	0	250	167	0.765	-0.024	0.015	0.736	14	14	11	7	0.015	0.002	-0.003	0	0.102	0.080	0.052	Light	Light	Moderate
A	Runway	142	695	250	167	0.749	-0.031	0.012	0.721	13	13	11	8					0.097	0.079	0.054	Light	Light	Moderate
B	Runway	142	695	250	167	0.766	-0.028	0.015	0.738	14	14	11	7	0.017	0.003	0.003	1	0.103	0.084	0.055	Light	Light	Moderate
A	Runway	143	1389	250	167	0.741	-0.026	0.012	0.714	14	14	12	8					0.098	0.086	0.054	Light	Light	Moderate
B	Runway	143	1389	250	167	0.748	-0.031	0.016	0.721	13	13	12	7	0.007	-0.005	0.004	-1	0.092	0.085	0.052	Light	Light	Moderate
A	Runway	144	2064	250	167	0.739	-0.025	0.011	0.712	14	14	11	8					0.096	0.080	0.054	Light	Light	Moderate
B	Runway	144	2064	250	167	0.746	-0.036	0.013	0.720	13	13	11	8	0.007	-0.011	0.002	-1	0.094	0.082	0.055	Light	Light	Moderate
A	Runway	145	2739	250	167	0.745	-0.032	0.016	0.719	14	14	12	8					0.098	0.088	0.055	Light	Light	Moderate
B	Runway	145	2739	250	167	0.743	-0.042	0.02	0.717	14	14	12	8	-0.002	-0.01	0.004	0	0.102	0.086	0.055	Light	Light	Moderate
A	Runway	146	3300	250	167	0.734	-0.031	0.019	0.708	14	14	12	8					0.101	0.083	0.056	Light	Light	Moderate
B	Runway	146	3300	250	167	0.725	-0.035	0.023	0.701	14	14	12	8	-0.009	-0.004	0.004	0	0.101	0.086	0.057	Light	Light	Moderate
A	Runway	147	3875	250	167	0.714	-0.034	0.016	0.689	15	15	11	8					0.102	0.078	0.056	Light	Light	Moderate
B	Runway	147	3875	250	167	0.733	-0.038	0.023	0.709	14	14	12	8	0.019	-0.004	0.007	-1	0.100	0.088	0.055	Light	Light	Moderate
A	Runway	148	4450	250	167	0.713	-0.033	0.016	0.690	14	14	13	8					0.100	0.088	0.058	Light	Light	Moderate
B	Runway	148	4450	250	167	0.718	-0.039	0.017	0.693	15	15	12	8	0.005	-0.006	0.001	1	0.107	0.082	0.056	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	HPLZ1	201	0	25	167	0.55	-0.015	0.008	0.534	17	17	13	8					0.093	0.069	0.041	Light	Light	Light
B	HPLZ1	201	0	25	167	0.555	-0.016	0.012	0.540	17	17	13	7	0.005	-0.001	0.004	0	0.093	0.071	0.040	Light	Light	Light
A	HPLZ1	202	675	25	167	0.53	-0.023	-0.002	0.516	17	17	13	8					0.090	0.065	0.041	Light	Light	Light
B	HPLZ1	202	675	25	167	0.538	-0.027	0.006	0.524	18	18	13	8	0.008	-0.004	0.008	1	0.092	0.069	0.041	Light	Light	Light
A	HPLZ1	203	1350	25	167	0.427	-0.032	-0.012	0.430	22	24	19	14					0.103	0.082	0.061	Light	Light	Moderate
B	HPLZ1	203	1350	25	167	0.432	-0.032	-0.009	0.435	23	24	20	13	0.005	0	0.003	1	0.104	0.087	0.057	Light	Light	Moderate
A	HPLZ1	211	0	50	167	0.624	-0.024	0.012	0.604	16	16	13	7					0.097	0.076	0.041	Light	Light	Light
B	HPLZ1	211	0	50	167	0.615	-0.013	0.013	0.595	16	16	12	7	-0.009	0.011	0.001	0	0.094	0.073	0.040	Light	Light	Light
A	HPLZ1	212	675	50	167	0.603	-0.028	0.007	0.585	17	17	13	8					0.100	0.078	0.044	Light	Light	Moderate
B	HPLZ1	212	675	50	167	0.613	-0.029	0.006	0.593	17	17	12	7	0.01	-0.001	-0.001	0	0.103	0.072	0.041	Light	Light	Light
A	HPLZ1	213	1350	50	167	0.589	-0.025	-0.02	0.573	18	18	14	8					0.101	0.080	0.045	Light	Light	Moderate
B	HPLZ1	213	1350	50	167	0.594	-0.031	-0.017	0.578	18	18	15	8	0.005	-0.006	0.003	0	0.105	0.084	0.045	Light	Light	Moderate
A	HPLZ1	221	0	100	167	0.677	-0.03	0.013	0.655	15	15	13	7					0.101	0.082	0.045	Light	Light	Moderate
B	HPLZ1	221	0	100	167	0.675	-0.02	0.018	0.651	14	14	12	6	-0.002	0.01	0.005	-1	0.094	0.078	0.042	Light	Light	Light
A	HPLZ1	222	675	100	167	0.674	-0.027	0.01	0.651	15	15	12	6					0.098	0.078	0.042	Light	Light	Light
B	HPLZ1	222	675	100	167	0.678	-0.032	0.015	0.655	16	15	12	7	0.004	-0.005	0.005	1	0.101	0.080	0.044	Light	Light	Moderate
A	HPLZ1	223	1350	100	167	0.675	-0.035	0.006	0.652	16	16	13	7					0.102	0.083	0.044	Light	Light	Moderate
B	HPLZ1	223	1350	100	167	0.676	-0.032	0.005	0.653	15	15	12	7	0.001	0.003	-0.001	-1	0.098	0.077	0.043	Light	Light	Light
A	HPLZ1	231	0	150	167	0.698	-0.022	0.014	0.673	14	14	12	7					0.095	0.079	0.046	Light	Light	Moderate
B	HPLZ1	231	0	150	167	0.703	-0.02	0.014	0.678	14	14	11	7	0.005	0.002	0	0	0.094	0.076	0.048	Light	Light	Moderate
A	HPLZ1	232	675	150	167	0.707	-0.037	0.013	0.682	14	14	12	7					0.097	0.082	0.048	Light	Light	Moderate
B	HPLZ1	232	675	150	167	0.716	-0.04	0.012	0.691	14	14	11	7	0.009	-0.003	-0.001	0	0.097	0.079	0.048	Light	Light	Moderate
A	HPLZ1	233	1350	150	167	0.703	-0.03	0.007	0.678	14	14	12	7					0.097	0.079	0.047	Light	Light	Moderate
B	HPLZ1	233	1350	150	167	0.708	-0.034	0.012	0.683	14	14	12	7	0.005	-0.004	0.005	0	0.094	0.081	0.047	Light	Light	Moderate
A	HPLZ1	241	0	250	167	0.734	-0.033	0.013	0.708	14	14	12	8					0.097	0.082	0.054	Light	Light	Moderate
B	HPLZ1	241	0	250	167	0.748	-0.033	0.015	0.721	14	14	12	8	0.014	0	0.002	0	0.102	0.085	0.055	Light	Light	Moderate
A	HPLZ1	242	675	250	167	0.751	-0.039	0.012	0.724	13	13	12	8					0.095	0.087	0.055	Light	Light	Moderate
B	HPLZ1	242	675	250	167	0.735	-0.031	0.014	0.709	14	14	11	8	-0.016	0.008	0.002	1	0.101	0.080	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	167	0.735	-0.037	0.011	0.709	14	14	12	8					0.100	0.083	0.055	Light	Light	Moderate
B	HPLZ1	243	1350	250	167	0.724	-0.035	0.018	0.699	14	14	12	8	-0.011	0.002	0.007	0	0.096	0.085	0.054	Light	Light	Moderate
A	HPLZ2	301	0	25	167	0.572	-0.017	0.006	0.555	16	16	13	7					0.091	0.073	0.040	Light	Light	Light
B	HPLZ2	301	0	25	167	0.557	-0.008	0.011	0.541	17	17	13	8	-0.015	0.009	0.005	1	0.092	0.070	0.041	Light	Light	Light
A	HPLZ2	302	675	25	167	0.571	-0.017	0.002	0.554	17	17	12	7					0.096	0.066	0.041	Light	Light	Light
B	HPLZ2	302	675	25	167	0.564	-0.018	0	0.546	17	18	12	7	-0.007	-0.001	-0.002	0	0.096	0.064	0.039	Light	Light	Light
A	HPLZ2	303	1350	25	167	0.573	-0.019	0.006	0.557	17	17	13	7					0.094	0.072	0.040	Light	Light	Light
B	HPLZ2	303	1350	25	167	0.573	-0.024	0.009	0.556	17	17	13	7	0	-0.005	0.003	0	0.093	0.071	0.039	Light	Light	Light
A	HPLZ2	311	0	50	167	0.628	-0.023	0.014	0.608	16	16	12	7					0.098	0.073	0.040	Light	Light	Light
B	HPLZ2	311	0	50	167	0.611	-0.015	0.019	0.592	17	17	13	7	-0.017	0.008	0.005	1	0.099	0.076	0.039	Light	Light	Light
A	HPLZ2	312	675	50	167	0.619	-0.026	0.007	0.599	16	16	12	6					0.094	0.072	0.038	Light	Light	Light
B	HPLZ2	312	675	50	167	0.628	-0.025	0.009	0.608	16	16	13	6	0.009	0.001	0.002	0	0.096	0.077	0.038	Light	Light	Light
A	HPLZ2	313	1350	50	167	0.632	-0.02	0.014	0.611	17	16	13	6					0.100	0.078	0.039	Light	Light	Light
B	HPLZ2	313	1350	50	167	0.625	-0.028	0.017	0.606	16	16	13	6	-0.007	-0.008	0.003	-1	0.094	0.077	0.039	Light	Light	Light
A	HPLZ2	321	0	100	167	0.677	-0.025	0.017	0.654	14	14	12	6					0.093	0.078	0.042	Light	Light	Light
B	HPLZ2	321	0	100	167	0.672	-0.024	0.024	0.649	15	15	12	7	-0.005	0.001	0.007	1	0.095	0.080	0.043	Light	Light	Light
A	HPLZ2	322	675	100	167	0.678	-0.029	0.012	0.655	15	15	13	7					0.101	0.083	0.045	Light	Light	Moderate
B	HPLZ2	322	675	100	167	0.675	-0.028	0.012	0.652	16	15	12	7	-0.003	0.001	0	1	0.101	0.079	0.043	Light	Light	Light
A	HPLZ2	323	1350	100	167	0.68	-0.032	0.015	0.658	15	15	13	6					0.099	0.085	0.041	Light	Light	Light
B	HPLZ2	323	1350	100	167	0.668	-0.027	0.018	0.645	15	15	12	7	-0.012	0.005	0.003	0	0.098	0.078	0.042	Light	Light	Light
A	HPLZ2	331	0	150	167	0.708	-0.028	0.014	0.683	14	14	12	7					0.094	0.081	0.046	Light	Light	Moderate
B	HPLZ2	331	0	150	167	0.709	-0.025	0.024	0.685	14	14	12	7	0.001	0.003	0.01	0	0.094	0.082	0.047	Light	Light	Moderate
A	HPLZ2	332	675	150	167	0.707	-0.029	0.011	0.681	15	15	12	7					0.100	0.079	0.047	Light	Light	Moderate
B	HPLZ2	332	675	150	167	0.71	-0.031	0.013	0.685	15	15	12	7	0.003	-0.002	0.002	0	0.099	0.081	0.049	Light	Light	Moderate
A	HPLZ2	333	1350	150	167	0.708	-0.032	0.015	0.684	14	14	13	7					0.097	0.087	0.048	Light	Light	Moderate
B	HPLZ2	333	1350	150	167	0.706	-0.033	0.017	0.682	14	14	12	7	-0.002	-0.001	0.002	0	0.095	0.082	0.047	Light	Light	Moderate
A	HPLZ2	341	0	250	167	0.745	-0.031	0.012	0.718	13	13	11	8					0.094	0.081	0.056	Light	Light	Moderate
B	HPLZ2	341	0	250	167	0.75	-0.033	0.022	0.723	14	14	11	8	0.005	-0.002	0.01	1	0.099	0.081	0.055	Light	Light	Moderate

Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
						(% UVW)																	
A	SLZ2	533	1150	150	167	0.689	-0.04	0.016	0.666	15	14	13	7					0.097	0.085	0.049	Light	Light	Moderate
B	SLZ2	533	1150	150	167	0.695	-0.03	0.015	0.672	15	15	13	8	0.006	0.01	-0.001	0	0.098	0.086	0.051	Light	Light	Moderate
A	SLZ2	541	0	250	167	0.722	-0.037	0.019	0.698	14	14	12	8					0.096	0.084	0.056	Light	Light	Moderate
B	SLZ2	541	0	250	167	0.717	-0.039	0.021	0.693	14	14	12	8	-0.005	-0.002	0.002	0	0.096	0.081	0.059	Light	Light	Moderate
A	SLZ2	542	575	250	167	0.719	-0.038	0.012	0.695	14	14	12	8					0.095	0.086	0.059	Light	Light	Moderate
B	SLZ2	542	575	250	167	0.722	-0.039	0.016	0.697	14	14	11	8	0.003	-0.001	0.004	0	0.100	0.079	0.055	Light	Light	Moderate
A	SLZ2	543	1150	250	167	0.715	-0.037	0.012	0.691	15	15	12	8					0.104	0.083	0.058	Light	Light	Moderate
B	SLZ2	543	1150	250	167	0.712	-0.036	0.015	0.688	14	14	12	8	-0.003	0.001	0.003	-1	0.097	0.085	0.056	Light	Light	Moderate
A	Runway	101	0	25	212	0.617	-0.022	0.007	0.596	16	16	11	7					0.095	0.067	0.041	Light	Light	Light
B	Runway	101	0	25	212	0.512	0.033	0.009	0.504	19	19	16	10	-0.105	0.055	0.002	3	0.095	0.080	0.050	Light	Light	Moderate
A	Runway	102	695	25	212	0.591	-0.015	-0.001	0.573	16	16	13	7					0.092	0.072	0.040	Light	Light	Light
B	Runway	102	695	25	212	0.554	0.037	-0.007	0.538	16	16	12	8	-0.037	0.052	-0.006	0	0.086	0.062	0.042	Light	Light	Light
A	Runway	103	1389	25	212	0.568	-0.021	0.006	0.552	17	17	13	8					0.093	0.070	0.041	Light	Light	Light
B	Runway	103	1389	25	212	0.562	-0.002	0.002	0.546	17	17	13	7	-0.006	0.019	-0.004	0	0.093	0.070	0.041	Light	Light	Light
A	Runway	104	2064	25	212	0.571	-0.011	0.011	0.555	19	19	14	8					0.104	0.076	0.042	Light	Light	Light
B	Runway	104	2064	25	212	0.486	-0.028	0.016	0.481	23	23	19	10	-0.085	-0.017	0.005	-4	0.112	0.089	0.050	Light	Light	Moderate
A	Runway	105	2739	25	212	0.522	-0.02	0.005	0.511	19	20	14	9					0.100	0.073	0.046	Light	Light	Moderate
B	Runway	105	2739	25	212	0.532	-0.017	0.008	0.519	18	19	14	9	0.01	0.003	0.003	-1	0.096	0.071	0.045	Light	Light	Moderate
A	Runway	106	3300	25	212	0.521	0.08	-0.011	0.515	21	22	13	10					0.112	0.066	0.052	Light	Light	Moderate
B	Runway	106	3300	25	212	0.526	0.078	-0.008	0.519	20	21	12	9	0.005	-0.002	0.003	-1	0.107	0.063	0.048	Light	Light	Moderate
A	Runway	107	3875	25	212	0.559	-0.007	-0.008	0.542	16	17	12	8					0.090	0.066	0.042	Light	Light	Light
B	Runway	107	3875	25	212	0.554	-0.003	-0.005	0.538	18	18	12	8	-0.005	0.004	0.003	2	0.098	0.062	0.043	Light	Light	Light
A	Runway	108	4450	25	212	0.578	-0.017	-0.001	0.561	18	18	13	8					0.100	0.073	0.042	Light	Light	Light
B	Runway	108	4450	25	212	0.566	-0.025	0.003	0.550	17	17	13	8	-0.012	-0.008	0.004	-1	0.094	0.070	0.041	Light	Light	Light
A	Runway	111	0	50	212	0.659	-0.013	0.013	0.636	16	16	12	6					0.101	0.073	0.040	Light	Light	Light
B	Runway	111	0	50	212	0.585	0.011	0.003	0.568	17	18	13	9	-0.074	0.024	-0.01	1	0.099	0.072	0.050	Light	Light	Moderate
A	Runway	112	695	50	212	0.635	-0.022	0.008	0.614	16	16	12	7					0.100	0.076	0.042	Light	Light	Light
B	Runway	112	695	50	212	0.6	0.02	-0.006	0.581	17	17	11	7	-0.035	0.042	-0.014	1	0.097	0.062	0.043	Light	Light	Light
A	Runway	113	1389	50	212	0.629	-0.014	0.011	0.608	16	16	12	7					0.097	0.075	0.041	Light	Light	Light
B	Runway	113	1389	50	212	0.638	-0.009	0.002	0.616	16	16	12	7	0.009	0.005	-0.009	0	0.100	0.076	0.043	Light	Light	Light
A	Runway	114	2064	50	212	0.619	-0.026	0.01	0.600	18	18	13	8					0.107	0.077	0.045	Light	Light	Moderate
B	Runway	114	2064	50	212	0.522	-0.027	0.009	0.514	22	23	17	11	-0.097	-0.001	-0.001	-4	0.117	0.086	0.054	Light	Light	Moderate
A	Runway	115	2739	50	212	0.595	-0.023	0.009	0.577	18	18	13	8					0.105	0.073	0.044	Light	Light	Moderate
B	Runway	115	2739	50	212	0.588	-0.019	0.012	0.571	18	18	12	8	-0.007	0.004	0.003	0	0.105	0.068	0.044	Light	Light	Moderate
A	Runway	116	3300	50	212	0.544	0.022	-0.03	0.533	23	24	13	10					0.129	0.068	0.052	Light	Light	Moderate
B	Runway	116	3300	50	212	0.549	0.018	-0.025	0.538	23	25	13	10	0.005	-0.004	0.005	0	0.134	0.072	0.052	Light	Light	Moderate
A	Runway	117	3875	50	212	0.613	-0.02	0.004	0.593	16	16	12	7					0.097	0.073	0.040	Light	Light	Light
B	Runway	117	3875	50	212	0.636	-0.028	0.005	0.615	15	15	12	6	0.023	-0.008	0.001	-1	0.093	0.074	0.040	Light	Light	Light
A	Runway	118	4450	50	212	0.645	-0.034	0.007	0.625	17	17	14	6					0.104	0.086	0.041	Light	Light	Light
B	Runway	118	4450	50	212	0.633	-0.036	0.01	0.613	17	17	13	7	-0.012	-0.002	0.003	0	0.102	0.077	0.040	Light	Light	Light
A	Runway	121	0	100	212	0.696	-0.022	0.014	0.671	15	15	11	7					0.102	0.072	0.046	Light	Light	Moderate
B	Runway	121	0	100	212	0.66	-0.023	0.005	0.637	17	17	11	7	-0.036	-0.001	-0.009	2	0.106	0.071	0.046	Light	Light	Moderate
A	Runway	122	695	100	212	0.691	-0.029	0.009	0.667	15	15	12	7					0.098	0.079	0.046	Light	Light	Moderate
B	Runway	122	695	100	212	0.68	-0.009	-0.002	0.655	15	15	12	7	-0.011	0.02	-0.011	0	0.096	0.077	0.044	Light	Light	Moderate
A	Runway	123	1389	100	212	0.689	-0.03	0.014	0.666	16	16	12	7					0.104	0.082	0.044	Light	Light	Moderate
B	Runway	123	1389	100	212	0.701	-0.022	0.004	0.676	15	15	12	7	0.012	0.008	-0.01	-1	0.100	0.079	0.044	Light	Light	Moderate
A	Runway	124	2064	100	212	0.667	-0.026	0.01	0.645	16	16	12	7					0.102	0.080	0.046	Light	Light	Moderate
B	Runway	124	2064	100	212	0.627	-0.025	-0.003	0.608	19	19	13	8	-0.04	0.001	-0.013	3	0.113	0.080	0.049	Light	Light	Moderate
A	Runway	125	2739	100	212	0.659	-0.029	0.01	0.637	16	16	13	7					0.103	0.082	0.044	Light	Light	Moderate
B	Runway	125	2739	100	212	0.675	-0.025	0.012	0.652	15	16	12	7	0.016	0.004	0.002	-1	0.102	0.076	0.045	Light	Light	Moderate
A	Runway	126	3300	100	212	0.647	-0.021	-0.017	0.627	18	18	13	7					0.112	0.083	0.046	Light	Light	Moderate
B	Runway	126	3300	100	212	0.646	-0.029	-0.016	0.627	18	18	13	7	-0.001	-0.008	0.001	0	0.114	0.084	0.046	Light	Light	Moderate
A	Runway	127	3875	100	212	0.684	-0.031	0.012	0.661	15	15	13	7					0.097	0.084	0.044	Light	Light	Moderate
B	Runway	127	3875	100	212	0.673	-0.031	0.016	0.650	15	15	12	6	-0.011	0	0.004	0	0.096	0.081	0.042	Light	Light	Light
A	Runway	128	4450	100	212	0.672	-0.032	0.011	0.649	16	16	12	7					0.104	0.079	0.044	Light	Light	Moderate
B	Runway	128	4450	100	212	0.685	-0.04	0.014	0.662	15	15	13	7	0.013	-0.008	0.003	-1	0.097	0.084	0.045	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	HPLZ1	241	0	250	212	0.746	-0.031	0.011	0.719	13	13	12	8					0.095	0.084	0.055	Light	Light	Moderate
B	HPLZ1	241	0	250	212	0.758	-0.031	0.013	0.731	14	14	12	7	0.012	0	0.002	1	0.099	0.084	0.052	Light	Light	Moderate
A	HPLZ1	242	675	250	212	0.729	-0.027	0.011	0.703	14	14	11	8					0.096	0.078	0.054	Light	Light	Moderate
B	HPLZ1	242	675	250	212	0.747	-0.025	0.008	0.719	15	15	12	7	0.018	0.002	-0.003	1	0.107	0.086	0.054	Light	Light	Moderate
A	HPLZ1	243	1350	250	212	0.739	-0.041	0.011	0.713	14	14	12	8					0.098	0.084	0.057	Light	Light	Moderate
B	HPLZ1	243	1350	250	212	0.735	-0.036	0.013	0.709	13	13	11	8	-0.004	0.005	0.002	-1	0.095	0.081	0.055	Light	Light	Moderate
A	HPLZ2	301	0	25	212	0.572	-0.014	0.005	0.556	18	18	14	7					0.099	0.079	0.041	Light	Light	Light
B	HPLZ2	301	0	25	212	0.543	-0.04	0.013	0.530	19	19	14	8	-0.029	-0.026	0.008	1	0.099	0.076	0.042	Light	Light	Light
A	HPLZ2	302	675	25	212	0.536	-0.01	-0.005	0.523	19	19	14	8					0.098	0.075	0.043	Light	Light	Light
B	HPLZ2	302	675	25	212	0.5	-0.013	0.002	0.491	20	21	16	9	-0.036	-0.003	0.007	1	0.101	0.078	0.044	Light	Light	Moderate
A	HPLZ2	303	1350	25	212	0.469	-0.015	0.005	0.467	20	21	19	13					0.097	0.090	0.060	Light	Light	Moderate
B	HPLZ2	303	1350	25	212	0.468	-0.002	0.006	0.465	21	22	18	13	-0.001	0.013	0.001	1	0.102	0.082	0.060	Light	Light	Moderate
A	HPLZ2	311	0	50	212	0.636	-0.016	0.009	0.615	17	17	13	7					0.107	0.077	0.041	Light	Light	Light
B	HPLZ2	311	0	50	212	0.587	-0.043	0.016	0.571	18	18	13	8	-0.049	-0.027	0.007	1	0.101	0.076	0.046	Light	Light	Moderate
A	HPLZ2	312	675	50	212	0.596	-0.015	0.002	0.579	18	18	14	8					0.104	0.081	0.045	Light	Light	Moderate
B	HPLZ2	312	675	50	212	0.561	-0.011	0.008	0.546	19	19	14	9	-0.035	0.004	0.006	1	0.105	0.078	0.048	Light	Light	Moderate
A	HPLZ2	313	1350	50	212	0.549	-0.002	-0.015	0.537	20	20	15	10					0.108	0.081	0.053	Light	Light	Moderate
B	HPLZ2	313	1350	50	212	0.551	0	-0.011	0.538	20	20	15	10	0.002	0.002	0.004	0	0.109	0.079	0.052	Light	Light	Moderate
A	HPLZ2	321	0	100	212	0.682	-0.024	0.009	0.659	15	15	13	7					0.097	0.084	0.046	Light	Light	Moderate
B	HPLZ2	321	0	100	212	0.653	-0.031	0.015	0.633	18	18	14	8	-0.029	-0.007	0.006	3	0.114	0.086	0.048	Light	Light	Moderate
A	HPLZ2	322	675	100	212	0.643	-0.02	0.01	0.622	17	17	12	7					0.105	0.077	0.047	Light	Light	Moderate
B	HPLZ2	322	675	100	212	0.633	-0.018	0.011	0.613	18	18	12	8	-0.01	0.002	0.001	1	0.111	0.074	0.048	Light	Light	Moderate
A	HPLZ2	323	1350	100	212	0.66	-0.016	-0.007	0.637	16	16	12	7					0.103	0.075	0.046	Light	Light	Moderate
B	HPLZ2	323	1350	100	212	0.669	-0.024	-0.002	0.646	16	16	12	7	0.009	-0.008	0.005	0	0.106	0.078	0.046	Light	Light	Moderate
A	HPLZ2	331	0	150	212	0.721	-0.029	0.01	0.696	15	15	12	7					0.103	0.082	0.049	Light	Light	Moderate
B	HPLZ2	331	0	150	212	0.705	-0.031	0.014	0.681	16	16	13	8	-0.016	-0.002	0.004	1	0.111	0.085	0.051	Light	Light	Moderate
A	HPLZ2	332	675	150	212	0.691	-0.036	0.011	0.668	16	16	12	8					0.108	0.083	0.051	Light	Light	Moderate
B	HPLZ2	332	675	150	212	0.679	-0.026	0.01	0.656	17	17	12	8	-0.012	0.01	-0.001	1	0.113	0.076	0.050	Light	Light	Moderate
A	HPLZ2	333	1350	150	212	0.688	-0.03	-0.001	0.665	15	15	13	7					0.103	0.087	0.047	Light	Light	Moderate
B	HPLZ2	333	1350	150	212	0.689	-0.023	0.001	0.665	15	15	12	7	0.001	0.007	0.002	0	0.098	0.078	0.049	Light	Light	Moderate
A	HPLZ2	341	0	250	212	0.751	-0.027	0.009	0.724	14	14	11	8					0.098	0.080	0.057	Light	Light	Moderate
B	HPLZ2	341	0	250	212	0.746	-0.028	0.011	0.719	14	14	11	7	-0.005	-0.001	0.002	0	0.098	0.082	0.053	Light	Light	Moderate
A	HPLZ2	342	675	250	212	0.727	-0.031	0.013	0.701	14	14	12	8					0.097	0.081	0.054	Light	Light	Moderate
B	HPLZ2	342	675	250	212	0.749	-0.028	0.008	0.721	14	14	11	7	0.022	0.003	-0.005	0	0.099	0.080	0.053	Light	Light	Moderate
A	HPLZ2	343	1350	250	212	0.738	-0.032	0.003	0.712	14	14	13	8					0.099	0.091	0.055	Light	Light	Moderate
B	HPLZ2	343	1350	250	212	0.745	-0.032	0.006	0.718	12	12	12	8	0.007	0	0.003	-2	0.089	0.086	0.056	Light	Light	Moderate
A	SLZ1	401	0	25	212	0.561	-0.021	0.011	0.546	19	19	13	7					0.105	0.072	0.041	Light	Light	Light
B	SLZ1	401	0	25	212	0.58	-0.026	0.01	0.562	18	18	12	7	0.019	-0.005	-0.001	-1	0.104	0.068	0.039	Light	Light	Light
A	SLZ1	402	575	25	212	0.557	-0.008	0.005	0.543	19	19	15	8					0.102	0.080	0.044	Light	Light	Moderate
B	SLZ1	402	575	25	212	0.559	-0.014	0.008	0.544	18	18	14	8	0.002	-0.006	0.003	-1	0.100	0.075	0.041	Light	Light	Light
A	SLZ1	403	1150	25	212	0.583	-0.03	0.004	0.566	17	18	13	7					0.099	0.071	0.041	Light	Light	Light
B	SLZ1	403	1150	25	212	0.591	-0.02	0.005	0.573	17	17	12	7	0.008	0.01	0.001	0	0.098	0.069	0.040	Light	Light	Light
A	SLZ1	411	0	50	212	0.614	-0.021	0.006	0.594	18	18	12	7					0.105	0.073	0.042	Light	Light	Light
B	SLZ1	411	0	50	212	0.622	-0.022	0.009	0.602	17	17	12	7	0.008	-0.001	0.003	-1	0.103	0.075	0.040	Light	Light	Light
A	SLZ1	412	575	50	212	0.605	-0.018	0.008	0.586	18	18	13	7					0.105	0.076	0.042	Light	Light	Light
B	SLZ1	412	575	50	212	0.615	-0.022	0.01	0.596	17	17	13	7	0.01	-0.004	0.002	-1	0.103	0.079	0.042	Light	Light	Light
A	SLZ1	413	1150	50	212	0.641	-0.031	0.008	0.620	17	17	13	7					0.103	0.078	0.041	Light	Light	Light
B	SLZ1	413	1150	50	212	0.634	-0.03	0.01	0.613	17	17	12	7	-0.007	0.001	0.002	0	0.104	0.076	0.040	Light	Light	Light
A	SLZ1	421	0	100	212	0.665	-0.021	0.009	0.642	15	15	12	7					0.095	0.077	0.042	Light	Light	Light
B	SLZ1	421	0	100	212	0.683	-0.02	0.01	0.660	15	15	13	6	0.018	0.001	0.001	0	0.096	0.085	0.042	Light	Light	Light
A	SLZ1	422	575	100	212	0.672	-0.026	0.014	0.649	16	16	13	7					0.102	0.083	0.044	Light	Light	Moderate
B	SLZ1	422	575	100	212	0.673	-0.032	0.016	0.650	15	15	12	7	0.001	-0.006	0.002	-1	0.096	0.079	0.043	Light	Light	Light
A	SLZ1	423	1150	100	212	0.683	-0.035	0.011	0.660	16	16	12	7					0.105	0.078	0.046	Light	Light	Moderate
B	SLZ1	423	1150	100	212	0.689	-0.032	0.015	0.666	14	14	12	7	0.006	0.003	0.004	-2	0.093	0.083	0.046	Light	Light	Moderate
A	SLZ1	431	0	150	212	0.705	-0.024	0.009	0.681	15	15	13	7					0.100	0.086	0.049	Light	Light	Moderate
B	SLZ1	431	0	150	212	0.714	-0.025	0.013	0.688	14	13	12	7	0.009	-0.001	0.004	-1	0.093	0.080	0.046	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	432	575	150	212	0.69	-0.03	0.013	0.667	15	15	12	8					0.102	0.081	0.051	Light	Light	Moderate
B	SLZ1	432	575	150	212	0.695	-0.032	0.017	0.671	14	14	12	7	0.005	-0.002	0.004	-1	0.097	0.078	0.048	Light	Light	Moderate
A	SLZ1	433	1150	150	212	0.714	-0.038	0.013	0.689	15	15	12	7					0.101	0.081	0.050	Light	Light	Moderate
B	SLZ1	433	1150	150	212	0.701	-0.044	0.015	0.677	14	14	12	7	-0.013	-0.006	0.002	-1	0.097	0.080	0.049	Light	Light	Moderate
A	SLZ1	441	0	250	212	0.72	-0.035	0.013	0.695	13	13	12	8					0.092	0.082	0.053	Light	Light	Moderate
B	SLZ1	441	0	250	212	0.735	-0.034	0.012	0.709	14	14	12	8	0.015	0.001	-0.001	1	0.096	0.082	0.054	Light	Light	Moderate
A	SLZ1	442	575	250	212	0.722	-0.038	0.014	0.697	15	15	11	8					0.103	0.080	0.055	Light	Light	Moderate
B	SLZ1	442	575	250	212	0.736	-0.041	0.017	0.710	13	13	12	8	0.014	-0.003	0.003	-2	0.096	0.086	0.055	Light	Light	Moderate
A	SLZ1	443	1150	250	212	0.726	-0.038	0.009	0.701	14	14	12	8					0.100	0.082	0.059	Light	Light	Moderate
B	SLZ1	443	1150	250	212	0.729	-0.042	0.012	0.703	14	14	11	8	0.003	-0.004	0.003	0	0.096	0.079	0.057	Light	Light	Moderate
A	SLZ2	501	0	25	212	0.56	-0.022	0.006	0.545	18	18	15	8					0.098	0.080	0.042	Light	Light	Light
B	SLZ2	501	0	25	212	0.55	-0.019	0.009	0.535	18	18	14	8	-0.01	0.003	0.003	0	0.097	0.073	0.040	Light	Light	Light
A	SLZ2	502	575	25	212	0.591	-0.018	0.007	0.572	17	17	13	7					0.096	0.072	0.039	Light	Light	Light
B	SLZ2	502	575	25	212	0.585	-0.016	0.01	0.567	17	17	12	7	-0.006	0.002	0.003	0	0.095	0.069	0.038	Light	Light	Light
A	SLZ2	503	1150	25	212	0.597	-0.027	0.006	0.579	17	17	13	7					0.096	0.078	0.038	Light	Light	Light
B	SLZ2	503	1150	25	212	0.593	-0.031	0.01	0.575	17	17	12	7	-0.004	-0.004	0.004	0	0.095	0.070	0.038	Light	Light	Light
A	SLZ2	511	0	50	212	0.602	-0.011	0.009	0.583	17	17	12	7					0.098	0.068	0.043	Light	Light	Light
B	SLZ2	511	0	50	212	0.624	-0.022	0.013	0.604	16	16	13	7	0.022	-0.011	0.004	-1	0.097	0.080	0.042	Light	Light	Light
A	SLZ2	512	575	50	212	0.627	-0.024	0.013	0.606	16	16	12	7					0.098	0.071	0.039	Light	Light	Light
B	SLZ2	512	575	50	212	0.636	-0.025	0.014	0.616	16	16	12	7	0.009	-0.001	0.001	0	0.101	0.076	0.040	Light	Light	Light
A	SLZ2	513	1150	50	212	0.64	-0.029	0.011	0.619	15	15	12	6					0.096	0.074	0.040	Light	Light	Light
B	SLZ2	513	1150	50	212	0.651	-0.026	0.013	0.629	16	16	12	6	0.011	0.003	0.002	1	0.102	0.078	0.039	Light	Light	Light
A	SLZ2	521	0	100	212	0.665	-0.02	0.012	0.642	17	17	12	7					0.107	0.077	0.045	Light	Light	Moderate
B	SLZ2	521	0	100	212	0.676	-0.032	0.014	0.653	15	15	13	7	0.011	-0.012	0.002	-2	0.099	0.082	0.043	Light	Light	Light
A	SLZ2	522	575	100	212	0.691	-0.031	0.014	0.667	15	15	12	7					0.102	0.083	0.045	Light	Light	Moderate
B	SLZ2	522	575	100	212	0.687	-0.037	0.016	0.663	15	15	12	6	-0.004	-0.006	0.002	0	0.101	0.076	0.043	Light	Light	Light
A	SLZ2	523	1150	100	212	0.704	-0.038	0.015	0.680	15	15	12	6					0.101	0.083	0.043	Light	Light	Light
B	SLZ2	523	1150	100	212	0.702	-0.039	0.019	0.679	14	14	13	6	-0.002	-0.001	0.004	-1	0.097	0.085	0.044	Light	Light	Moderate
A	SLZ2	531	0	150	212	0.698	-0.031	0.014	0.674	15	15	12	7					0.100	0.082	0.047	Light	Light	Moderate
B	SLZ2	531	0	150	212	0.698	-0.03	0.015	0.674	14	14	11	7	0	0.001	0.001	-1	0.097	0.076	0.047	Light	Light	Moderate
A	SLZ2	532	575	150	212	0.692	-0.033	0.015	0.668	15	15	12	7					0.098	0.079	0.047	Light	Light	Moderate
B	SLZ2	532	575	150	212	0.71	-0.033	0.017	0.685	14	14	12	7	0.018	0	0.002	-1	0.099	0.082	0.048	Light	Light	Moderate
A	SLZ2	533	1150	150	212	0.72	-0.031	0.014	0.695	15	15	12	8					0.105	0.085	0.052	Light	Light	Moderate
B	SLZ2	533	1150	150	212	0.714	-0.034	0.018	0.689	15	15	12	7	-0.006	-0.003	0.004	0	0.102	0.083	0.048	Light	Light	Moderate
A	SLZ2	541	0	250	212	0.725	-0.039	0.014	0.700	14	14	12	8					0.098	0.084	0.055	Light	Light	Moderate
B	SLZ2	541	0	250	212	0.741	-0.033	0.012	0.715	13	13	12	7	0.016	0.006	-0.002	-1	0.095	0.085	0.053	Light	Light	Moderate
A	SLZ2	542	575	250	212	0.731	-0.04	0.012	0.706	14	14	12	8					0.102	0.082	0.056	Light	Light	Moderate
B	SLZ2	542	575	250	212	0.747	-0.037	0.013	0.721	14	14	12	8	0.016	0.003	0.001	0	0.100	0.084	0.057	Light	Light	Moderate
A	SLZ2	543	1150	250	212	0.747	-0.036	0.013	0.721	14	14	12	8					0.104	0.083	0.060	Light	Light	Moderate
B	SLZ2	543	1150	250	212	0.74	-0.043	0.016	0.715	15	15	12	8	-0.007	-0.007	0.003	1	0.104	0.084	0.056	Light	Light	Moderate
A	Runway	101	0	25	234.5	0.596	-0.021	0.014	0.579	18	18	13	7					0.106	0.077	0.043	Light	Light	Light
B	Runway	101	0	25	234.5	0.533	-0.011	0.016	0.523	21	22	16	9	-0.063	0.01	0.002	3	0.114	0.085	0.047	Light	Light	Moderate
A	Runway	102	695	25	234.5	0.584	-0.029	0.008	0.568	17	17	13	7					0.095	0.076	0.042	Light	Light	Light
B	Runway	102	695	25	234.5	0.45	0.044	-0.006	0.451	22	23	20	12	-0.134	0.073	-0.014	5	0.104	0.089	0.052	Light	Light	Moderate
A	Runway	103	1389	25	234.5	0.576	-0.018	0.006	0.559	17	17	14	7					0.097	0.076	0.040	Light	Light	Light
B	Runway	103	1389	25	234.5	0.491	0.023	0.003	0.483	20	20	16	10	-0.085	0.041	-0.003	3	0.096	0.077	0.048	Light	Light	Moderate
A	Runway	104	2064	25	234.5	0.561	-0.017	0.007	0.545	17	17	13	7					0.093	0.073	0.041	Light	Light	Light
B	Runway	104	2064	25	234.5	0.55	-0.008	0.007	0.535	18	18	13	8	-0.011	0.009	0	1	0.097	0.072	0.042	Light	Light	Light
A	Runway	105	2739	25	234.5	0.521	-0.014	0.006	0.509	18	18	14	8					0.091	0.074	0.043	Light	Light	Light
B	Runway	105	2739	25	234.5	0.448	-0.025	0.018	0.447	22	23	19	11	-0.073	-0.011	0.012	4	0.104	0.086	0.049	Light	Light	Moderate
A	Runway	106	3300	25	234.5	0.295	0.007	0.011	0.346	27	38	36	25					0.130	0.125	0.086	Light	Light	Severe
B	Runway	106	3300	25	234.5	0.29	0.015	0.017	0.342	26	37	35	26	-0.005	0.008	0.006	-1	0.128	0.121	0.090	Light	Light	Severe
A	Runway	107	3875	25	234.5	0.49	-0.022	-0.004	0.483	23	23	16	10					0.112	0.078	0.050	Light	Light	Moderate
B	Runway	107	3875	25	234.5	0.478	-0.017	-0.001	0.472	24	25	18	11	-0.012	0.005	0.003	1	0.116	0.084	0.050	Light	Light	Moderate
A	Runway	108	4450	25	234.5	0.571	-0.019	-0.006	0.555	18	18	13	8					0.101	0.071	0.042	Light	Light	Light
B	Runway	108	4450	25	234.5	0.588	-0.022	-0.006	0.571	17	18	13	7	0.017	-0.003	0	-1	0.100	0.076	0.041	Light	Light	Light

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	111	0	50	234.5	0.639	-0.029	0.015	0.619	17	17	13	8					0.102	0.081	0.047	Light	Light	Moderate
B	Runway	111	0	50	234.5	0.596	-0.028	0.021	0.580	21	21	14	9	-0.043	0.001	0.006	4	0.122	0.080	0.051	Light	Light	Moderate
A	Runway	112	695	50	234.5	0.623	-0.029	0.012	0.604	17	17	13	7					0.103	0.078	0.045	Light	Light	Moderate
B	Runway	112	695	50	234.5	0.526	0.019	-0.011	0.516	20	21	15	10	-0.097	0.048	-0.023	3	0.108	0.078	0.054	Light	Light	Moderate
A	Runway	113	1389	50	234.5	0.633	-0.026	0.012	0.614	17	17	13	7					0.104	0.081	0.043	Light	Light	Light
B	Runway	113	1389	50	234.5	0.572	0.011	0	0.557	18	18	14	9	-0.061	0.037	-0.012	1	0.103	0.077	0.049	Light	Light	Moderate
A	Runway	114	2064	50	234.5	0.625	-0.023	0.014	0.605	15	15	13	7					0.093	0.079	0.040	Light	Light	Light
B	Runway	114	2064	50	234.5	0.608	-0.015	0.006	0.589	17	17	13	7	-0.017	0.008	-0.008	2	0.100	0.074	0.042	Light	Light	Light
A	Runway	115	2739	50	234.5	0.571	-0.017	0.008	0.556	18	18	14	8					0.102	0.076	0.047	Light	Light	Moderate
B	Runway	115	2739	50	234.5	0.49	-0.011	0.018	0.483	21	22	16	11	-0.081	0.006	0.01	3	0.107	0.079	0.052	Light	Light	Moderate
A	Runway	116	3300	50	234.5	0.409	-0.017	-0.009	0.429	28	34	24	19					0.144	0.103	0.081	Light	Light	Severe
B	Runway	116	3300	50	234.5	0.402	-0.018	-0.008	0.420	28	34	24	19	-0.007	-0.001	0.001	0	0.142	0.101	0.080	Light	Light	Severe
A	Runway	117	3875	50	234.5	0.611	-0.01	-0.006	0.590	18	18	12	7					0.107	0.069	0.040	Light	Light	Light
B	Runway	117	3875	50	234.5	0.606	-0.009	-0.004	0.586	18	18	12	7	-0.005	0.001	0.002	0	0.105	0.070	0.041	Light	Light	Light
A	Runway	118	4450	50	234.5	0.63	-0.033	0.007	0.611	17	17	13	6					0.104	0.079	0.039	Light	Light	Light
B	Runway	118	4450	50	234.5	0.645	-0.032	0.006	0.624	16	16	12	6	0.015	0.001	-0.001	-1	0.102	0.073	0.040	Light	Light	Light
A	Runway	121	0	100	234.5	0.684	-0.026	0.01	0.661	17	17	12	8					0.113	0.079	0.050	Light	Light	Moderate
B	Runway	121	0	100	234.5	0.657	-0.027	0.017	0.635	19	19	12	8	-0.027	-0.001	0.007	2	0.119	0.075	0.051	Light	Light	Moderate
A	Runway	122	695	100	234.5	0.683	-0.028	0.011	0.660	17	17	12	7					0.109	0.082	0.049	Light	Light	Moderate
B	Runway	122	695	100	234.5	0.613	-0.021	-0.003	0.594	19	19	13	8	-0.07	0.007	-0.014	2	0.111	0.076	0.050	Light	Light	Moderate
A	Runway	123	1389	100	234.5	0.677	-0.026	0.012	0.654	17	17	12	7					0.109	0.079	0.048	Light	Light	Moderate
B	Runway	123	1389	100	234.5	0.64	-0.015	-0.001	0.619	18	18	13	8	-0.037	0.011	-0.013	1	0.109	0.078	0.047	Light	Light	Moderate
A	Runway	124	2064	100	234.5	0.671	-0.021	0.013	0.648	15	15	12	7					0.099	0.075	0.045	Light	Light	Moderate
B	Runway	124	2064	100	234.5	0.684	-0.024	0.004	0.660	14	14	12	6	0.013	-0.003	-0.009	-1	0.094	0.080	0.043	Light	Light	Light
A	Runway	125	2739	100	234.5	0.645	-0.023	0.011	0.625	18	18	13	8					0.114	0.082	0.050	Light	Light	Moderate
B	Runway	125	2739	100	234.5	0.607	-0.015	0.015	0.590	20	20	13	9	-0.038	0.008	0.004	2	0.118	0.077	0.052	Light	Light	Moderate
A	Runway	126	3300	100	234.5	0.614	-0.044	-0.005	0.598	20	20	13	8					0.120	0.078	0.050	Light	Light	Moderate
B	Runway	126	3300	100	234.5	0.605	-0.038	-0.003	0.589	20	20	13	9	-0.009	0.006	0.002	0	0.121	0.076	0.051	Light	Light	Moderate
A	Runway	127	3875	100	234.5	0.675	-0.011	0.003	0.651	14	14	11	7					0.092	0.072	0.044	Light	Light	Moderate
B	Runway	127	3875	100	234.5	0.677	-0.02	0.003	0.653	14	14	11	7	0.002	-0.009	0	0	0.091	0.070	0.044	Light	Light	Moderate
A	Runway	128	4450	100	234.5	0.691	-0.037	0.009	0.667	15	15	12	7					0.098	0.078	0.045	Light	Light	Moderate
B	Runway	128	4450	100	234.5	0.693	-0.031	0.012	0.669	15	15	12	7	0.002	0.006	0.003	0	0.101	0.079	0.045	Light	Light	Moderate
A	Runway	131	0	150	234.5	0.732	-0.026	0.008	0.706	15	15	11	7					0.107	0.079	0.052	Light	Light	Moderate
B	Runway	131	0	150	234.5	0.699	-0.035	0.018	0.674	16	16	11	8	-0.033	-0.009	0.01	1	0.106	0.075	0.053	Light	Light	Moderate
A	Runway	132	695	150	234.5	0.721	-0.028	0.011	0.695	16	16	12	7					0.110	0.084	0.051	Light	Light	Moderate
B	Runway	132	695	150	234.5	0.69	-0.031	-0.001	0.667	16	16	12	7	-0.031	-0.003	-0.012	0	0.108	0.081	0.049	Light	Light	Moderate
A	Runway	133	1389	150	234.5	0.72	-0.028	0.008	0.695	15	15	12	7					0.105	0.084	0.048	Light	Light	Moderate
B	Runway	133	1389	150	234.5	0.694	-0.031	0.001	0.670	16	16	12	7	-0.026	-0.003	-0.007	1	0.108	0.081	0.049	Light	Light	Moderate
A	Runway	134	2064	150	234.5	0.711	-0.021	0.015	0.686	15	15	12	7					0.101	0.082	0.048	Light	Light	Moderate
B	Runway	134	2064	150	234.5	0.716	-0.02	0.002	0.689	14	14	12	7	0.005	0.001	-0.013	-1	0.095	0.080	0.046	Light	Light	Moderate
A	Runway	135	2739	150	234.5	0.705	-0.033	0.013	0.682	15	15	13	7					0.103	0.087	0.048	Light	Light	Moderate
B	Runway	135	2739	150	234.5	0.677	-0.017	0.018	0.653	16	16	11	7	-0.028	0.016	0.005	1	0.106	0.075	0.049	Light	Light	Moderate
A	Runway	136	3300	150	234.5	0.679	-0.036	0.007	0.656	16	16	12	7					0.106	0.078	0.047	Light	Light	Moderate
B	Runway	136	3300	150	234.5	0.673	-0.037	0.006	0.650	15	15	11	7	-0.006	-0.001	-0.001	-1	0.098	0.073	0.046	Light	Light	Moderate
A	Runway	137	3875	150	234.5	0.712	-0.024	0.002	0.686	15	15	12	7					0.101	0.079	0.046	Light	Light	Moderate
B	Runway	137	3875	150	234.5	0.708	-0.019	0.005	0.683	14	14	12	7	-0.004	0.005	0.003	-1	0.098	0.080	0.049	Light	Light	Moderate
A	Runway	138	4450	150	234.5	0.707	-0.04	0.015	0.682	15	15	12	7					0.105	0.080	0.048	Light	Light	Moderate
B	Runway	138	4450	150	234.5	0.705	-0.035	0.013	0.681	15	15	12	7	-0.002	0.005	-0.002	0	0.105	0.081	0.050	Light	Light	Moderate
A	Runway	141	0	250	234.5	0.778	-0.03	0.011	0.749	14	14	11	7					0.102	0.086	0.056	Light	Light	Moderate
B	Runway	141	0	250	234.5	0.774	-0.033	0.011	0.745	13	13	10	8	-0.004	-0.003	0	-1	0.097	0.077	0.057	Light	Light	Moderate
A	Runway	142	695	250	234.5	0.764	-0.033	0.007	0.735	14	14	11	8					0.102	0.078	0.056	Light	Light	Moderate
B	Runway	142	695	250	234.5	0.753	-0.039	0.004	0.725	14	14	11	7	-0.011	-0.006	-0.003	0	0.099	0.079	0.052	Light	Light	Moderate
A	Runway	143	1389	250	234.5	0.749	-0.036	0.013	0.723	14	14	12	7					0.103	0.087	0.054	Light	Light	Moderate
B	Runway	143	1389	250	234.5	0.761	-0.04	0.001	0.733	14	14	11	7	0.012	-0.004	-0.012	0	0.100	0.084	0.054	Light	Light	Moderate
A	Runway	144	2064	250	234.5	0.753	-0.031	0.009	0.725	13	13	12	7					0.095	0.085	0.054	Light	Light	Moderate
B	Runway	144	2064	250	234.5	0.746	-0.027	0.003	0.719	14	14	12	8	-0.007	0.004	-0.006	1	0.100	0.084	0.056	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	HPLZ2	331	0	150	234.5	0.72	-0.028	0.009	0.694	14	14	12	7					0.099	0.081	0.049	Light	Light	Moderate
B	HPLZ2	331	0	150	234.5	0.711	-0.023	0.014	0.686	14	14	12	7	-0.009	0.005	0.005	0	0.097	0.082	0.047	Light	Light	Moderate
A	HPLZ2	332	675	150	234.5	0.704	-0.027	0.009	0.679	15	15	12	7					0.101	0.079	0.049	Light	Light	Moderate
B	HPLZ2	332	675	150	234.5	0.695	-0.024	0.004	0.671	16	16	12	7	-0.009	0.003	-0.005	1	0.105	0.079	0.048	Light	Light	Moderate
A	HPLZ2	333	1350	150	234.5	0.686	-0.039	0.006	0.663	16	16	12	7					0.105	0.078	0.047	Light	Light	Moderate
B	HPLZ2	333	1350	150	234.5	0.685	-0.03	0.007	0.662	16	16	12	7	-0.001	0.009	0.001	0	0.106	0.079	0.048	Light	Light	Moderate
A	HPLZ2	341	0	250	234.5	0.766	-0.033	0.006	0.737	13	13	11	7					0.099	0.082	0.053	Light	Light	Moderate
B	HPLZ2	341	0	250	234.5	0.761	-0.031	0.01	0.733	13	13	11	7	-0.005	0.002	0.004	0	0.097	0.081	0.052	Light	Light	Moderate
A	HPLZ2	342	675	250	234.5	0.743	-0.025	0.01	0.716	14	14	11	8					0.103	0.081	0.055	Light	Light	Moderate
B	HPLZ2	342	675	250	234.5	0.733	-0.026	0.005	0.706	14	14	11	8	-0.01	-0.001	-0.005	0	0.097	0.078	0.054	Light	Light	Moderate
A	HPLZ2	343	1350	250	234.5	0.742	-0.037	0.011	0.716	15	15	12	8					0.106	0.086	0.054	Light	Light	Moderate
B	HPLZ2	343	1350	250	234.5	0.735	-0.03	0.012	0.709	14	14	12	8	-0.007	0.007	0.001	-1	0.102	0.082	0.053	Light	Light	Moderate
A	SLZ1	401	0	25	234.5	0.426	-0.039	0.019	0.437	24	26	26	14					0.113	0.115	0.061	Light	Light	Moderate
B	SLZ1	401	0	25	234.5	0.425	-0.044	0.017	0.436	26	28	25	14	-0.001	0.005	-0.002	2	0.122	0.110	0.060	Light	Light	Moderate
A	SLZ1	402	575	25	234.5	0.523	-0.013	0.008	0.512	21	21	15	9					0.108	0.076	0.047	Light	Light	Moderate
B	SLZ1	402	575	25	234.5	0.537	-0.01	0.007	0.524	20	20	15	9	0.014	0.003	-0.001	-1	0.105	0.077	0.047	Light	Light	Moderate
A	SLZ1	403	1150	25	234.5	0.568	-0.018	0	0.551	18	18	12	7					0.100	0.068	0.041	Light	Light	Light
B	SLZ1	403	1150	25	234.5	0.575	-0.016	0.001	0.558	17	17	13	7	0.007	0.002	0.001	-1	0.096	0.072	0.041	Light	Light	Moderate
A	SLZ1	411	0	50	234.5	0.459	0.004	0.01	0.464	26	28	22	15					0.129	0.102	0.070	Light	Light	Moderate
B	SLZ1	411	0	50	234.5	0.466	0.011	0.008	0.469	25	27	22	15	0.007	0.007	-0.002	-1	0.126	0.102	0.068	Light	Light	Moderate
A	SLZ1	412	575	50	234.5	0.6	-0.021	0.007	0.581	18	19	12	7					0.108	0.072	0.042	Light	Light	Light
B	SLZ1	412	575	50	234.5	0.6	-0.013	0.003	0.581	18	18	12	7	0	0.008	-0.004	0	0.103	0.071	0.042	Light	Light	Light
A	SLZ1	413	1150	50	234.5	0.639	-0.027	0.007	0.619	16	16	13	6					0.100	0.078	0.039	Light	Light	Light
B	SLZ1	413	1150	50	234.5	0.644	-0.032	0.008	0.623	17	17	13	6	0.005	-0.005	0.001	1	0.105	0.079	0.040	Light	Light	Light
A	SLZ1	421	0	100	234.5	0.582	-0.033	0	0.570	22	22	15	10					0.128	0.087	0.056	Light	Light	Moderate
B	SLZ1	421	0	100	234.5	0.599	-0.026	-0.006	0.584	21	22	15	9	0.017	0.007	-0.006	-1	0.126	0.085	0.054	Light	Light	Moderate
A	SLZ1	422	575	100	234.5	0.684	-0.026	0.013	0.660	15	15	12	7					0.099	0.079	0.044	Light	Light	Moderate
B	SLZ1	422	575	100	234.5	0.679	-0.024	0.012	0.655	15	15	12	7	-0.005	0.002	-0.001	0	0.100	0.077	0.044	Light	Light	Moderate
A	SLZ1	423	1150	100	234.5	0.692	-0.037	0.013	0.668	15	15	12	7					0.098	0.082	0.044	Light	Light	Moderate
B	SLZ1	423	1150	100	234.5	0.686	-0.042	0.016	0.663	15	15	12	6	-0.006	-0.005	0.003	0	0.099	0.080	0.042	Light	Light	Light
A	SLZ1	431	0	150	234.5	0.677	-0.039	0.008	0.655	16	16	12	8					0.103	0.081	0.049	Light	Light	Moderate
B	SLZ1	431	0	150	234.5	0.679	-0.046	0.008	0.657	16	16	12	8	0.002	-0.007	0	0	0.103	0.081	0.050	Light	Light	Moderate
A	SLZ1	432	575	150	234.5	0.701	-0.026	0.014	0.677	14	14	12	7					0.098	0.081	0.048	Light	Light	Moderate
B	SLZ1	432	575	150	234.5	0.704	-0.025	0.012	0.679	15	15	11	7	0.003	0.001	-0.002	1	0.099	0.078	0.048	Light	Light	Moderate
A	SLZ1	433	1150	150	234.5	0.707	-0.033	0.016	0.683	15	15	12	7					0.100	0.081	0.047	Light	Light	Moderate
B	SLZ1	433	1150	150	234.5	0.71	-0.039	0.014	0.685	15	15	12	7	0.003	-0.006	-0.002	0	0.102	0.081	0.049	Light	Light	Moderate
A	SLZ1	441	0	250	234.5	0.731	-0.041	0.008	0.705	14	14	12	7					0.096	0.082	0.052	Light	Light	Moderate
B	SLZ1	441	0	250	234.5	0.727	-0.036	0.011	0.701	14	14	12	8	-0.004	0.005	0.003	0	0.096	0.082	0.053	Light	Light	Moderate
A	SLZ1	442	575	250	234.5	0.721	-0.037	0.012	0.696	15	15	12	8					0.102	0.084	0.056	Light	Light	Moderate
B	SLZ1	442	575	250	234.5	0.728	-0.028	0.01	0.702	14	14	11	8	0.007	0.009	-0.002	-1	0.100	0.075	0.057	Light	Light	Moderate
A	SLZ1	443	1150	250	234.5	0.732	-0.037	0.011	0.706	13	13	11	8					0.094	0.080	0.057	Light	Light	Moderate
B	SLZ1	443	1150	250	234.5	0.731	-0.035	0.014	0.705	14	14	12	8	-0.001	0.002	0.003	1	0.096	0.083	0.055	Light	Light	Moderate
A	SLZ2	501	0	25	234.5	0.573	0.006	0.004	0.556	19	19	12	8					0.105	0.064	0.042	Light	Light	Light
B	SLZ2	501	0	25	234.5	0.577	0.007	0.005	0.559	18	19	12	8	0.004	0.001	0.001	-1	0.104	0.066	0.042	Light	Light	Light
A	SLZ2	502	575	25	234.5	0.58	-0.025	0.009	0.563	18	18	13	7					0.102	0.073	0.042	Light	Light	Light
B	SLZ2	502	575	25	234.5	0.582	-0.023	0.007	0.564	17	17	12	7	0.002	0.002	-0.002	-1	0.098	0.067	0.039	Light	Light	Light
A	SLZ2	503	1150	25	234.5	0.592	-0.02	0.009	0.575	18	18	13	7					0.102	0.077	0.042	Light	Light	Light
B	SLZ2	503	1150	25	234.5	0.597	-0.027	0.011	0.579	18	18	13	7	0.005	-0.007	0.002	0	0.103	0.075	0.040	Light	Light	Light
A	SLZ2	511	0	50	234.5	0.597	-0.004	0.004	0.579	18	19	12	8					0.108	0.072	0.047	Light	Light	Moderate
B	SLZ2	511	0	50	234.5	0.608	0.001	0.001	0.588	18	18	11	8	0.011	0.005	-0.003	0	0.106	0.066	0.047	Light	Light	Moderate
A	SLZ2	512	575	50	234.5	0.618	-0.024	0.011	0.598	17	17	11	7					0.100	0.068	0.041	Light	Light	Light
B	SLZ2	512	575	50	234.5	0.619	-0.022	0.014	0.599	17	17	12	7	0.001	0.002	0.003	0	0.101	0.071	0.041	Light	Light	Light
A	SLZ2	513	1150	50	234.5	0.649	-0.027	0.011	0.628	16	16	13	7					0.102	0.079	0.042	Light	Light	Light
B	SLZ2	513	1150	50	234.5	0.649	-0.032	0.013	0.628	16	16	12	6	0	-0.005	0.002	0	0.103	0.076	0.039	Light	Light	Light
A	SLZ2	521	0	100	234.5	0.659	-0.009	-0.004	0.637	17	17	12	8					0.107	0.077	0.049	Light	Light	Moderate
B	SLZ2	521	0	100	234.5	0.656	-0.017	0.002	0.635	17	17	13	8	-0.003	-0.008	0.006	0	0.106	0.083	0.051	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	125	2739	100	257	0.638	-0.02	0.012	0.618	17	17	13	8					0.104	0.080	0.047	Light	Light	Moderate
B	Runway	125	2739	100	257	0.616	-0.005	-0.005	0.598	19	19	14	8	-0.022	0.015	-0.017	2	0.114	0.082	0.049	Light	Light	Moderate
A	Runway	126	3300	100	257	0.619	-0.043	0.001	0.601	19	19	13	7					0.112	0.078	0.045	Light	Light	Moderate
B	Runway	126	3300	100	257	0.61	-0.034	-0.003	0.591	18	18	12	8	-0.009	0.009	-0.004	-1	0.105	0.070	0.047	Light	Light	Moderate
A	Runway	127	3875	100	257	0.637	-0.026	-0.021	0.617	17	17	13	7					0.104	0.078	0.046	Light	Light	Moderate
B	Runway	127	3875	100	257	0.635	-0.015	-0.025	0.616	17	17	13	8	-0.002	0.011	-0.004	0	0.105	0.083	0.047	Light	Light	Moderate
A	Runway	128	4450	100	257	0.651	-0.03	0.014	0.630	16	16	12	7					0.103	0.076	0.046	Light	Light	Moderate
B	Runway	128	4450	100	257	0.66	-0.025	0.012	0.638	16	16	13	7	0.009	0.005	-0.002	0	0.103	0.080	0.047	Light	Light	Moderate
A	Runway	131	0	150	257	0.684	-0.035	0.011	0.661	18	18	12	8					0.121	0.081	0.050	Light	Light	Moderate
B	Runway	131	0	150	257	0.679	-0.033	0.011	0.657	17	17	13	8	-0.005	0.002	0	-1	0.113	0.085	0.054	Light	Light	Moderate
A	Runway	132	695	150	257	0.669	-0.026	0.011	0.647	17	17	13	8					0.111	0.083	0.051	Light	Light	Moderate
B	Runway	132	695	150	257	0.642	-0.031	0.003	0.623	20	20	14	9	-0.027	-0.005	-0.008	3	0.125	0.087	0.056	Light	Light	Moderate
A	Runway	133	1389	150	257	0.663	-0.027	0.007	0.641	16	16	12	8					0.105	0.076	0.050	Light	Light	Moderate
B	Runway	133	1389	150	257	0.647	-0.028	-0.004	0.627	19	19	13	8	-0.016	-0.001	-0.011	3	0.117	0.081	0.050	Light	Light	Moderate
A	Runway	134	2064	150	257	0.685	-0.024	0.007	0.662	15	15	12	8					0.100	0.079	0.050	Light	Light	Moderate
B	Runway	134	2064	150	257	0.653	-0.021	-0.001	0.633	18	18	13	8	-0.032	0.003	-0.008	3	0.115	0.083	0.052	Light	Light	Moderate
A	Runway	135	2739	150	257	0.678	-0.026	0.014	0.655	17	17	13	8					0.109	0.082	0.050	Light	Light	Moderate
B	Runway	135	2739	150	257	0.667	-0.008	0.005	0.644	17	17	13	7	-0.011	0.018	-0.009	0	0.108	0.083	0.048	Light	Light	Moderate
A	Runway	136	3300	150	257	0.67	-0.033	0.005	0.648	16	16	13	7					0.104	0.082	0.047	Light	Light	Moderate
B	Runway	136	3300	150	257	0.669	-0.036	0.001	0.647	16	16	12	7	-0.001	-0.003	-0.004	0	0.101	0.078	0.048	Light	Light	Moderate
A	Runway	137	3875	150	257	0.661	-0.032	-0.009	0.639	16	16	12	8					0.104	0.080	0.049	Light	Light	Moderate
B	Runway	137	3875	150	257	0.654	-0.027	-0.011	0.633	16	15	12	8	-0.007	0.005	-0.002	0	0.098	0.079	0.051	Light	Light	Moderate
A	Runway	138	4450	150	257	0.685	-0.038	0.011	0.662	15	15	12	8					0.101	0.082	0.052	Light	Light	Moderate
B	Runway	138	4450	150	257	0.692	-0.034	0.01	0.669	16	16	12	8	0.007	0.004	-0.001	1	0.105	0.083	0.050	Light	Light	Moderate
A	Runway	141	0	250	257	0.742	-0.035	0.007	0.715	16	16	11	8					0.112	0.079	0.057	Light	Light	Moderate
B	Runway	141	0	250	257	0.743	-0.03	0.008	0.717	16	16	12	8	0.001	0.005	0.001	0	0.112	0.083	0.061	Light	Light	Moderate
A	Runway	142	695	250	257	0.724	-0.034	0.007	0.699	15	15	12	8					0.107	0.083	0.057	Light	Light	Moderate
B	Runway	142	695	250	257	0.706	-0.032	0.001	0.681	16	16	12	8	-0.018	0.002	-0.006	1	0.109	0.079	0.057	Light	Light	Moderate
A	Runway	143	1389	250	257	0.721	-0.028	0.008	0.695	15	15	11	8					0.108	0.079	0.057	Light	Light	Moderate
B	Runway	143	1389	250	257	0.702	-0.032	0.001	0.678	16	16	12	8	-0.019	-0.004	-0.007	1	0.108	0.082	0.057	Light	Light	Moderate
A	Runway	144	2064	250	257	0.708	-0.029	0.011	0.684	15	15	12	8					0.105	0.083	0.057	Light	Light	Moderate
B	Runway	144	2064	250	257	0.704	-0.021	-0.001	0.680	15	15	12	9	-0.004	0.008	-0.012	0	0.105	0.082	0.058	Light	Light	Moderate
A	Runway	145	2739	250	257	0.718	-0.032	0.011	0.694	15	15	12	8					0.107	0.082	0.058	Light	Light	Moderate
B	Runway	145	2739	250	257	0.695	-0.015	0.011	0.671	15	15	12	9	-0.023	0.017	0	0	0.103	0.082	0.058	Light	Light	Moderate
A	Runway	146	3300	250	257	0.706	-0.031	0.005	0.682	15	15	12	8					0.104	0.080	0.057	Light	Light	Moderate
B	Runway	146	3300	250	257	0.68	-0.032	0.007	0.658	16	16	12	9	-0.026	-0.001	0.002	1	0.105	0.082	0.057	Light	Light	Moderate
A	Runway	147	3875	250	257	0.703	-0.033	-0.001	0.679	14	14	12	9					0.098	0.079	0.058	Light	Light	Moderate
B	Runway	147	3875	250	257	0.701	-0.027	-0.005	0.677	15	15	12	9	-0.002	0.006	-0.004	1	0.102	0.079	0.060	Light	Light	Moderate
A	Runway	148	4450	250	257	0.717	-0.034	0.011	0.692	14	14	12	8					0.100	0.081	0.059	Light	Light	Moderate
B	Runway	148	4450	250	257	0.696	-0.03	0.013	0.673	16	16	13	9	-0.021	0.004	0.002	2	0.108	0.085	0.060	Light	Light	Moderate
A	HPLZ1	201	0	25	257	0.56	-0.028	0.002	0.545	18	18	13	7					0.098	0.072	0.040	Light	Light	Moderate
B	HPLZ1	201	0	25	257	0.468	-0.013	0.001	0.464	21	22	19	10	-0.092	0.015	-0.001	3	0.102	0.087	0.049	Light	Light	Moderate
A	HPLZ1	202	675	25	257	0.539	-0.024	0.002	0.525	18	18	14	8					0.095	0.072	0.039	Light	Light	Moderate
B	HPLZ1	202	675	25	257	0.481	-0.002	-0.009	0.475	21	22	17	10	-0.058	0.022	-0.011	3	0.105	0.083	0.046	Light	Light	Moderate
A	HPLZ1	203	1350	25	257	0.541	-0.021	0.011	0.527	18	18	14	7					0.095	0.074	0.038	Light	Light	Moderate
B	HPLZ1	203	1350	25	257	0.502	-0.047	0.013	0.494	18	18	14	9	-0.039	-0.026	0.002	0	0.091	0.071	0.044	Light	Light	Moderate
A	HPLZ1	211	0	50	257	0.586	-0.029	0.008	0.569	18	18	13	8					0.100	0.076	0.043	Light	Light	Moderate
B	HPLZ1	211	0	50	257	0.511	-0.016	-0.003	0.503	22	23	16	11	-0.075	0.013	-0.011	4	0.115	0.081	0.055	Light	Light	Moderate
A	HPLZ1	212	675	50	257	0.592	-0.022	0.008	0.574	16	16	13	7					0.094	0.075	0.041	Light	Light	Moderate
B	HPLZ1	212	675	50	257	0.531	-0.008	-0.005	0.521	21	21	16	10	-0.061	0.014	-0.013	5	0.109	0.082	0.051	Light	Light	Moderate
A	HPLZ1	213	1350	50	257	0.601	-0.022	0.015	0.583	17	17	12	7					0.099	0.072	0.040	Light	Light	Moderate
B	HPLZ1	213	1350	50	257	0.544	-0.031	0.009	0.532	19	19	14	9	-0.057	-0.009	-0.006	2	0.100	0.077	0.048	Light	Light	Moderate
A	HPLZ1	221	0	100	257	0.631	-0.027	0.009	0.611	17	17	13	8					0.106	0.079	0.046	Light	Light	Moderate
B	HPLZ1	221	0	100	257	0.589	-0.028	0	0.574	21	21	14	9	-0.042	-0.001	-0.009	4	0.123	0.081	0.053	Light	Light	Moderate
A	HPLZ1	222	675	100	257	0.637	-0.017	0.007	0.617	15	15	13	8					0.093	0.080	0.048	Light	Light	Moderate
B	HPLZ1	222	675	100	257	0.606	-0.018	-0.003	0.589	20	20	13	9	-0.031	-0.001	-0.01	5	0.116	0.079	0.051	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	223	1350	100	257	0.649	-0.024	0.011	0.628	16	16	12	7					0.103	0.078	0.045	Light	Light	Moderate
B	HPLZ1	223	1350	100	257	0.604	-0.007	0.001	0.587	19	19	14	8	-0.045	0.017	-0.01	3	0.111	0.085	0.049	Light	Light	Moderate
A	HPLZ1	231	0	150	257	0.686	-0.025	0.006	0.663	16	16	13	8					0.109	0.086	0.052	Light	Light	Moderate
B	HPLZ1	231	0	150	257	0.651	-0.023	0	0.631	20	20	13	8	-0.035	0.002	-0.006	4	0.125	0.081	0.052	Light	Light	Moderate
A	HPLZ1	232	675	150	257	0.68	-0.028	0.009	0.657	17	17	12	8					0.109	0.081	0.051	Light	Light	Moderate
B	HPLZ1	232	675	150	257	0.658	-0.024	-0.001	0.637	18	18	13	8	-0.022	0.004	-0.01	1	0.113	0.083	0.050	Light	Light	Moderate
A	HPLZ1	233	1350	150	257	0.666	-0.026	0.015	0.644	16	16	12	8					0.104	0.080	0.049	Light	Light	Moderate
B	HPLZ1	233	1350	150	257	0.674	-0.008	0.003	0.652	16	16	13	8	0.008	0.018	-0.012	0	0.101	0.082	0.049	Light	Light	Moderate
A	HPLZ1	241	0	250	257	0.714	-0.026	0.007	0.690	15	15	13	8					0.105	0.088	0.054	Light	Light	Moderate
B	HPLZ1	241	0	250	257	0.705	-0.037	0.003	0.682	16	16	13	8	-0.009	-0.011	-0.004	1	0.109	0.085	0.055	Light	Light	Moderate
A	HPLZ1	242	675	250	257	0.717	-0.028	0.004	0.692	15	15	12	8					0.102	0.082	0.056	Light	Light	Moderate
B	HPLZ1	242	675	250	257	0.715	-0.023	-0.001	0.691	15	15	12	8	-0.002	0.005	-0.005	0	0.106	0.084	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	257	0.703	-0.025	0.011	0.679	16	16	12	8					0.106	0.080	0.057	Light	Light	Moderate
B	HPLZ1	243	1350	250	257	0.702	-0.021	0.004	0.679	16	16	13	9	-0.001	0.004	-0.007	0	0.105	0.086	0.058	Light	Light	Moderate
A	HPLZ2	301	0	25	257	0.544	-0.023	0.008	0.530	18	18	14	8					0.093	0.075	0.040	Light	Light	Moderate
B	HPLZ2	301	0	25	257	0.485	-0.015	0.004	0.479	21	22	17	10	-0.059	0.008	-0.004	3	0.105	0.082	0.047	Light	Light	Moderate
A	HPLZ2	302	675	25	257	0.544	-0.024	-0.002	0.529	18	18	13	7					0.095	0.070	0.039	Light	Light	Moderate
B	HPLZ2	302	675	25	257	0.512	-0.011	-0.006	0.501	19	20	15	9	-0.032	0.013	-0.004	1	0.099	0.076	0.045	Light	Light	Moderate
A	HPLZ2	303	1350	25	257	0.538	-0.031	0.005	0.525	19	19	14	8					0.099	0.075	0.041	Light	Light	Moderate
B	HPLZ2	303	1350	25	257	0.494	-0.044	0.004	0.486	20	21	15	9	-0.044	-0.013	-0.001	1	0.101	0.073	0.043	Light	Light	Moderate
A	HPLZ2	311	0	50	257	0.597	-0.023	0.012	0.580	18	18	13	8					0.104	0.078	0.044	Light	Light	Moderate
B	HPLZ2	311	0	50	257	0.537	-0.02	0.008	0.527	21	21	16	10	-0.06	0.003	-0.004	3	0.110	0.086	0.051	Light	Light	Moderate
A	HPLZ2	312	675	50	257	0.603	-0.024	0.007	0.585	17	17	13	7					0.099	0.077	0.041	Light	Light	Moderate
B	HPLZ2	312	675	50	257	0.56	-0.002	-0.003	0.545	20	20	14	9	-0.043	0.022	-0.01	3	0.108	0.078	0.047	Light	Light	Moderate
A	HPLZ2	313	1350	50	257	0.595	-0.029	0.013	0.578	18	18	14	7					0.102	0.079	0.041	Light	Light	Moderate
B	HPLZ2	313	1350	50	257	0.544	-0.033	0.008	0.531	20	20	14	9	-0.051	-0.004	-0.005	2	0.104	0.076	0.046	Light	Light	Moderate
A	HPLZ2	321	0	100	257	0.639	-0.016	0.016	0.620	17	17	14	8					0.105	0.084	0.048	Light	Light	Moderate
B	HPLZ2	321	0	100	257	0.602	-0.031	0.006	0.586	20	21	14	9	-0.037	-0.015	-0.01	3	0.121	0.082	0.052	Light	Light	Moderate
A	HPLZ2	322	675	100	257	0.641	-0.026	0.011	0.620	17	17	12	7					0.103	0.075	0.045	Light	Light	Moderate
B	HPLZ2	322	675	100	257	0.609	-0.013	0.001	0.592	19	19	14	8	-0.032	0.013	-0.01	2	0.114	0.081	0.050	Light	Light	Moderate
A	HPLZ2	323	1350	100	257	0.642	-0.026	0.011	0.621	16	16	12	8					0.101	0.078	0.047	Light	Light	Moderate
B	HPLZ2	323	1350	100	257	0.612	-0.025	0.001	0.594	19	19	13	8	-0.03	0.001	-0.01	3	0.110	0.079	0.049	Light	Light	Moderate
A	HPLZ2	331	0	150	257	0.661	-0.027	0.011	0.639	17	17	12	8					0.106	0.080	0.051	Light	Light	Moderate
B	HPLZ2	331	0	150	257	0.646	-0.026	0.006	0.626	19	19	13	8	-0.015	0.001	-0.005	2	0.119	0.083	0.053	Light	Light	Moderate
A	HPLZ2	332	675	150	257	0.679	-0.023	0.01	0.657	17	17	12	8					0.112	0.082	0.051	Light	Light	Moderate
B	HPLZ2	332	675	150	257	0.656	-0.029	0.003	0.635	17	17	12	8	-0.023	-0.006	-0.007	0	0.109	0.079	0.049	Light	Light	Moderate
A	HPLZ2	333	1350	150	257	0.68	-0.032	0.008	0.657	15	15	12	7					0.098	0.081	0.049	Light	Light	Moderate
B	HPLZ2	333	1350	150	257	0.665	-0.019	0.002	0.643	16	16	13	8	-0.015	0.013	-0.006	1	0.104	0.082	0.051	Light	Light	Moderate
A	HPLZ2	341	0	250	257	0.717	-0.028	0.009	0.693	15	15	12	8					0.107	0.084	0.057	Light	Light	Moderate
B	HPLZ2	341	0	250	257	0.719	-0.026	0.01	0.695	16	16	13	8	0.002	0.002	0.001	1	0.114	0.089	0.056	Light	Light	Moderate
A	HPLZ2	342	675	250	257	0.704	-0.028	0.01	0.680	14	15	12	8					0.099	0.084	0.055	Light	Light	Moderate
B	HPLZ2	342	675	250	257	0.706	-0.028	0.006	0.682	16	16	12	8	0.002	0	-0.004	2	0.109	0.085	0.056	Light	Light	Moderate
A	HPLZ2	343	1350	250	257	0.706	-0.03	0.009	0.681	15	15	11	8					0.100	0.078	0.056	Light	Light	Moderate
B	HPLZ2	343	1350	250	257	0.707	-0.023	0.004	0.683	15	15	12	8	0.001	0.007	-0.005	0	0.101	0.083	0.057	Light	Light	Moderate
A	SLZ1	401	0	25	257	0.473	-0.033	0.012	0.468	21	22	17	10					0.103	0.081	0.049	Light	Light	Moderate
B	SLZ1	401	0	25	257	0.448	-0.02	0.009	0.447	23	24	19	11	-0.025	0.013	-0.003	2	0.109	0.085	0.050	Light	Light	Moderate
A	SLZ1	402	575	25	257	0.514	-0.001	0	0.503	21	22	14	10					0.111	0.069	0.050	Light	Light	Moderate
B	SLZ1	402	575	25	257	0.513	0.005	-0.001	0.502	20	21	14	10	-0.001	0.006	-0.001	-1	0.107	0.068	0.052	Light	Light	Moderate
A	SLZ1	403	1150	25	257	0.546	-0.023	0.005	0.532	18	18	13	8					0.098	0.071	0.040	Light	Light	Moderate
B	SLZ1	403	1150	25	257	0.54	-0.019	0.004	0.526	18	19	14	8	-0.006	0.004	-0.001	0	0.098	0.071	0.042	Light	Light	Moderate
A	SLZ1	411	0	50	257	0.527	-0.039	0.01	0.517	21	22	14	9					0.112	0.075	0.049	Light	Light	Moderate
B	SLZ1	411	0	50	257	0.519	-0.032	0.006	0.510	22	23	16	10	-0.008	0.007	-0.004	1	0.116	0.081	0.051	Light	Light	Moderate
A	SLZ1	412	575	50	257	0.552	-0.004	-0.007	0.538	21	22	13	9					0.119	0.072	0.050	Light	Light	Moderate
B	SLZ1	412	575	50	257	0.545	0.002	-0.006	0.532	21	21	13	10	-0.007	0.006	0.001	0	0.113	0.071	0.052	Light	Light	Moderate
A	SLZ1	413	1150	50	257	0.605	-0.025	0.012	0.587	18	18	14	7					0.104	0.079	0.042	Light	Light	Moderate
B	SLZ1	413	1150	50	257	0.596	-0.024	0.01	0.578	19	19	13	7	-0.009	0.001	-0.002	1	0.109	0.077	0.041	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ1	421	0	100	257	0.611	-0.035	0.005	0.594	18	18	14	8					0.108	0.080	0.047	Light	Light	Moderate
B	SLZ1	421	0	100	257	0.613	-0.033	0.003	0.595	19	19	14	8	0.002	0.002	-0.002	1	0.114	0.080	0.049	Light	Light	Moderate
A	SLZ1	422	575	100	257	0.638	-0.021	-0.006	0.617	17	17	12	7					0.103	0.077	0.045	Light	Light	Moderate
B	SLZ1	422	575	100	257	0.623	-0.017	-0.009	0.604	18	18	13	8	-0.015	0.004	-0.003	1	0.107	0.078	0.047	Light	Light	Moderate
A	SLZ1	423	1150	100	257	0.682	-0.027	0.014	0.660	16	16	13	7					0.103	0.085	0.046	Light	Light	Moderate
B	SLZ1	423	1150	100	257	0.657	-0.022	0.012	0.636	17	17	13	7	-0.025	0.005	-0.002	1	0.107	0.081	0.046	Light	Light	Moderate
A	SLZ1	431	0	150	257	0.655	-0.032	0.011	0.634	17	17	13	8					0.107	0.080	0.048	Light	Light	Moderate
B	SLZ1	431	0	150	257	0.675	-0.032	0.007	0.654	16	16	13	8	0.02	0	-0.004	-1	0.103	0.083	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	257	0.674	-0.032	0.002	0.653	16	16	13	8					0.107	0.084	0.049	Light	Light	Moderate
B	SLZ1	432	575	150	257	0.667	-0.022	-0.004	0.645	16	16	13	8	-0.007	0.01	-0.006	0	0.105	0.081	0.052	Light	Light	Moderate
A	SLZ1	433	1150	150	257	0.686	-0.032	0.012	0.662	16	16	12	7					0.104	0.080	0.048	Light	Light	Moderate
B	SLZ1	433	1150	150	257	0.69	-0.028	0.008	0.667	15	15	12	8	0.004	0.004	-0.004	-1	0.102	0.082	0.051	Light	Light	Moderate
A	SLZ1	441	0	250	257	0.702	-0.034	0.006	0.678	15	15	12	8					0.100	0.079	0.057	Light	Light	Moderate
B	SLZ1	441	0	250	257	0.696	-0.038	0.01	0.673	15	14	13	8	-0.006	-0.004	0.004	0	0.098	0.085	0.055	Light	Light	Moderate
A	SLZ1	442	575	250	257	0.725	-0.03	-0.001	0.700	15	14	12	8					0.101	0.081	0.058	Light	Light	Moderate
B	SLZ1	442	575	250	257	0.698	-0.029	0.004	0.674	16	16	12	8	-0.027	0.001	0.005	1	0.105	0.080	0.056	Light	Light	Moderate
A	SLZ1	443	1150	250	257	0.719	-0.037	0.016	0.695	16	16	12	8					0.108	0.085	0.059	Light	Light	Moderate
B	SLZ1	443	1150	250	257	0.708	-0.03	0.012	0.683	15	15	11	8	-0.011	0.007	-0.004	-1	0.102	0.077	0.057	Light	Light	Moderate
A	SLZ2	501	0	25	257	0.489	-0.019	0.008	0.480	20	20	16	9					0.098	0.076	0.043	Light	Light	Light
B	SLZ2	501	0	25	257	0.49	-0.009	0.006	0.482	20	21	17	9	0.001	0.01	-0.002	0	0.099	0.083	0.044	Light	Light	Moderate
A	SLZ2	502	575	25	257	0.541	-0.016	0.006	0.526	18	18	12	8					0.096	0.065	0.043	Light	Light	Light
B	SLZ2	502	575	25	257	0.531	-0.012	0.006	0.517	19	19	13	8	-0.01	0.004	0	1	0.101	0.069	0.044	Light	Light	Moderate
A	SLZ2	503	1150	25	257	0.55	-0.028	0.016	0.536	18	18	14	7					0.097	0.076	0.039	Light	Light	Light
B	SLZ2	503	1150	25	257	0.55	-0.019	0.011	0.535	20	20	14	8	0	0.009	-0.005	2	0.106	0.075	0.042	Light	Light	Light
A	SLZ2	511	0	50	257	0.55	-0.025	0.011	0.537	20	20	14	9					0.109	0.076	0.046	Light	Light	Moderate
B	SLZ2	511	0	50	257	0.53	-0.022	0.008	0.519	20	20	15	9	-0.02	0.003	-0.003	0	0.103	0.077	0.048	Light	Light	Moderate
A	SLZ2	512	575	50	257	0.578	-0.016	0.007	0.561	19	19	13	8					0.106	0.070	0.046	Light	Light	Moderate
B	SLZ2	512	575	50	257	0.573	-0.015	0.005	0.557	19	19	13	9	-0.005	0.001	-0.002	0	0.107	0.073	0.047	Light	Light	Moderate
A	SLZ2	513	1150	50	257	0.595	-0.022	0.016	0.576	16	16	12	7					0.093	0.070	0.042	Light	Light	Light
B	SLZ2	513	1150	50	257	0.602	-0.026	0.013	0.585	18	18	14	7	0.007	-0.004	-0.003	2	0.105	0.082	0.040	Light	Light	Light
A	SLZ2	521	0	100	257	0.617	-0.028	0.003	0.598	18	18	13	8					0.109	0.076	0.049	Light	Light	Moderate
B	SLZ2	521	0	100	257	0.609	-0.028	0.004	0.592	19	19	13	9	-0.008	0	0.001	1	0.113	0.080	0.051	Light	Light	Moderate
A	SLZ2	522	575	100	257	0.641	-0.019	0.005	0.621	17	17	13	8					0.106	0.080	0.049	Light	Light	Moderate
B	SLZ2	522	575	100	257	0.643	-0.024	0.004	0.622	17	18	12	8	0.002	-0.005	-0.001	0	0.110	0.078	0.049	Light	Light	Moderate
A	SLZ2	523	1150	100	257	0.661	-0.028	0.02	0.640	16	16	13	7					0.103	0.083	0.044	Light	Light	Moderate
B	SLZ2	523	1150	100	257	0.653	-0.029	0.015	0.632	16	16	13	7	-0.008	-0.001	-0.005	0	0.104	0.079	0.045	Light	Light	Moderate
A	SLZ2	531	0	150	257	0.661	-0.032	0.007	0.640	16	16	13	8					0.105	0.081	0.048	Light	Light	Moderate
B	SLZ2	531	0	150	257	0.653	-0.027	0.006	0.633	17	17	13	8	-0.008	0.005	-0.001	1	0.107	0.083	0.049	Light	Light	Moderate
A	SLZ2	532	575	150	257	0.672	-0.027	0.008	0.649	16	16	12	8					0.106	0.081	0.049	Light	Light	Moderate
B	SLZ2	532	575	150	257	0.671	-0.022	0.007	0.649	16	17	12	8	-0.001	0.005	-0.001	0	0.107	0.080	0.050	Light	Light	Moderate
A	SLZ2	533	1150	150	257	0.678	-0.036	0.017	0.656	15	15	12	8					0.100	0.079	0.050	Light	Light	Moderate
B	SLZ2	533	1150	150	257	0.685	-0.025	0.016	0.663	16	16	13	7	0.007	0.011	-0.001	1	0.103	0.083	0.049	Light	Light	Moderate
A	SLZ2	541	0	250	257	0.694	-0.03	0.012	0.671	15	15	12	9					0.103	0.082	0.058	Light	Light	Moderate
B	SLZ2	541	0	250	257	0.697	-0.026	0.007	0.673	15	15	12	8	0.003	0.004	-0.005	0	0.102	0.082	0.057	Light	Light	Moderate
A	SLZ2	542	575	250	257	0.711	-0.036	0.009	0.686	15	15	11	8					0.102	0.076	0.055	Light	Light	Moderate
B	SLZ2	542	575	250	257	0.701	-0.032	0.008	0.678	15	15	12	8	-0.01	0.004	-0.001	0	0.104	0.084	0.058	Light	Light	Moderate
A	SLZ2	543	1150	250	257	0.711	-0.034	0.015	0.687	16	16	12	8					0.109	0.080	0.058	Light	Light	Moderate
B	SLZ2	543	1150	250	257	0.708	-0.032	0.013	0.684	15	15	12	9	-0.003	0.002	-0.002	-1	0.101	0.080	0.058	Light	Light	Moderate
A	Runway	101	0	25	279.5	0.512	-0.03	0.009	0.502	21	21	15	10					0.106	0.077	0.049	Light	Light	Moderate
B	Runway	101	0	25	279.5	0.507	-0.024	0.008	0.499	21	22	16	10	-0.005	0.006	-0.001	0	0.111	0.080	0.052	Light	Light	Moderate
A	Runway	102	695	25	279.5	0.544	-0.031	0.011	0.530	19	19	14	8					0.099	0.073	0.042	Light	Light	Light
B	Runway	102	695	25	279.5	0.516	-0.035	0.013	0.507	20	20	15	9	-0.028	-0.004	0.002	1	0.103	0.075	0.047	Light	Light	Moderate
A	Runway	103	1389	25	279.5	0.525	-0.023	0.01	0.513	19	19	15	8					0.096	0.076	0.041	Light	Light	Light
B	Runway	103	1389	25	279.5	0.406	-0.037	0.016	0.416	24	27	23	14	-0.119	-0.014	0.006	5	0.113	0.096	0.059	Light	Light	Moderate
A	Runway	104	2064	25	279.5	0.528	-0.009	0.01	0.515	18	18	15	8					0.094	0.079	0.041	Light	Light	Light
B	Runway	104	2064	25	279.5	0.421	-0.017	0.014	0.426	23	26	21	12	-0.107	-0.008	0.004	5	0.110	0.091	0.053	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification				
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W		
										(% UVW)															
A	HPLZ2	313	1350	50	279.5	0.583	-0.026	0.01	0.566	17	17	13	7										Light	Light	Light
B	HPLZ2	313	1350	50	279.5	0.533	-0.022	0.009	0.522	21	21	16	9	-0.05	0.004	-0.001	4	0.109	0.081	0.049	Light	Light	Moderate		
A	HPLZ2	321	0	100	279.5	0.637	-0.04	0.015	0.618	17	17	13	8					0.105	0.079	0.050	Light	Light	Moderate		
B	HPLZ2	321	0	100	279.5	0.601	-0.031	0.005	0.585	20	20	14	9	-0.036	0.009	-0.01	3	0.115	0.082	0.052	Light	Light	Moderate		
A	HPLZ2	322	675	100	279.5	0.633	-0.022	0.009	0.613	17	17	13	8					0.104	0.081	0.049	Light	Light	Moderate		
B	HPLZ2	322	675	100	279.5	0.58	-0.023	0.007	0.566	20	20	15	9	-0.053	-0.001	-0.002	3	0.115	0.084	0.054	Light	Light	Moderate		
A	HPLZ2	323	1350	100	279.5	0.638	-0.03	0.008	0.618	17	17	13	7					0.102	0.081	0.046	Light	Light	Moderate		
B	HPLZ2	323	1350	100	279.5	0.595	-0.02	0.003	0.579	20	21	14	9	-0.043	0.01	-0.005	3	0.119	0.081	0.052	Light	Light	Moderate		
A	HPLZ2	331	0	150	279.5	0.675	-0.029	0.014	0.653	18	18	13	8					0.120	0.084	0.055	Light	Light	Moderate		
B	HPLZ2	331	0	150	279.5	0.646	-0.033	0.007	0.628	19	19	14	9	-0.029	-0.004	-0.007	1	0.121	0.087	0.054	Light	Light	Moderate		
A	HPLZ2	332	675	150	279.5	0.665	-0.028	0.012	0.643	16	16	12	8					0.104	0.080	0.050	Light	Light	Moderate		
B	HPLZ2	332	675	150	279.5	0.635	-0.023	0.002	0.616	19	19	13	9	-0.03	0.005	-0.01	3	0.116	0.080	0.054	Light	Light	Moderate		
A	HPLZ2	333	1350	150	279.5	0.67	-0.025	0.007	0.648	17	17	13	8					0.108	0.082	0.051	Light	Light	Moderate		
B	HPLZ2	333	1350	150	279.5	0.63	-0.025	0.004	0.612	20	20	14	9	-0.04	0	-0.003	3	0.122	0.083	0.055	Light	Light	Moderate		
A	HPLZ2	341	0	250	279.5	0.71	-0.037	0.009	0.688	16	16	12	9					0.110	0.086	0.059	Light	Light	Moderate		
B	HPLZ2	341	0	250	279.5	0.72	-0.038	0.004	0.695	16	16	12	8	0.009	-0.001	-0.005	0	0.110	0.084	0.057	Light	Light	Moderate		
A	HPLZ2	342	675	250	279.5	0.714	-0.031	0.009	0.690	14	14	12	8					0.097	0.084	0.056	Light	Light	Moderate		
B	HPLZ2	342	675	250	279.5	0.708	-0.026	0.001	0.684	16	17	12	8	-0.006	0.005	-0.008	2	0.113	0.082	0.056	Light	Light	Moderate		
A	HPLZ2	343	1350	250	279.5	0.71	-0.032	0.005	0.686	16	15	12	8					0.106	0.085	0.055	Light	Light	Moderate		
B	HPLZ2	343	1350	250	279.5	0.692	-0.027	0.005	0.669	16	16	12	8	-0.018	0.005	0	0	0.108	0.082	0.056	Light	Light	Moderate		
A	SLZ1	401	0	25	279.5	0.5	-0.026	0.005	0.489	19	20	15	8					0.097	0.072	0.041	Light	Light	Light		
B	SLZ1	401	0	25	279.5	0.496	-0.03	0.004	0.487	21	21	16	9	-0.004	-0.004	-0.001	2	0.104	0.076	0.045	Light	Light	Moderate		
A	SLZ1	402	575	25	279.5	0.427	-0.032	0.013	0.434	24	26	23	14					0.112	0.098	0.062	Light	Light	Moderate		
B	SLZ1	402	575	25	279.5	0.416	-0.026	0.011	0.425	25	27	24	14	-0.011	0.006	-0.002	1	0.117	0.101	0.061	Light	Light	Moderate		
A	SLZ1	403	1150	25	279.5	0.511	-0.021	0.006	0.502	21	21	16	9					0.107	0.079	0.045	Light	Light	Moderate		
B	SLZ1	403	1150	25	279.5	0.519	-0.024	0.004	0.508	19	19	15	9	0.008	-0.003	-0.002	-2	0.099	0.078	0.045	Light	Light	Moderate		
A	SLZ1	411	0	50	279.5	0.584	-0.04	0.013	0.569	18	18	14	7					0.100	0.079	0.040	Light	Light	Light		
B	SLZ1	411	0	50	279.5	0.552	-0.026	0.01	0.539	18	19	14	8	-0.032	0.014	-0.003	0	0.100	0.076	0.045	Light	Light	Moderate		
A	SLZ1	412	575	50	279.5	0.486	-0.028	0	0.483	24	25	18	13					0.121	0.087	0.060	Light	Light	Moderate		
B	SLZ1	412	575	50	279.5	0.479	-0.028	-0.001	0.478	24	25	19	13	-0.007	0	-0.001	0	0.120	0.089	0.064	Light	Light	Moderate		
A	SLZ1	413	1150	50	279.5	0.58	-0.024	0.009	0.565	18	19	14	8					0.105	0.078	0.043	Light	Light	Light		
B	SLZ1	413	1150	50	279.5	0.57	-0.023	0.006	0.554	19	19	13	8	-0.01	0.001	-0.003	1	0.104	0.072	0.044	Light	Light	Moderate		
A	SLZ1	421	0	100	279.5	0.642	-0.027	0.013	0.622	17	17	13	8					0.105	0.083	0.047	Light	Light	Moderate		
B	SLZ1	421	0	100	279.5	0.607	-0.028	0.007	0.589	18	18	13	8	-0.035	-0.001	-0.006	1	0.105	0.077	0.046	Light	Light	Moderate		
A	SLZ1	422	575	100	279.5	0.613	-0.023	-0.006	0.596	20	20	14	8					0.122	0.081	0.049	Light	Light	Moderate		
B	SLZ1	422	575	100	279.5	0.609	-0.024	-0.009	0.592	20	20	14	9	-0.004	-0.001	-0.003	0	0.119	0.080	0.051	Light	Light	Moderate		
A	SLZ1	423	1150	100	279.5	0.626	-0.026	0.013	0.607	18	18	12	7					0.109	0.075	0.045	Light	Light	Moderate		
B	SLZ1	423	1150	100	279.5	0.647	-0.025	0.011	0.626	17	17	12	7	0.021	0.001	-0.002	-1	0.109	0.074	0.046	Light	Light	Moderate		
A	SLZ1	431	0	150	279.5	0.663	-0.031	0.012	0.641	16	16	12	8					0.101	0.078	0.049	Light	Light	Moderate		
B	SLZ1	431	0	150	279.5	0.651	-0.027	0.008	0.630	18	18	12	8	-0.012	0.004	-0.004	2	0.111	0.075	0.049	Light	Light	Moderate		
A	SLZ1	432	575	150	279.5	0.662	-0.026	0	0.640	16	17	12	8					0.106	0.077	0.048	Light	Light	Moderate		
B	SLZ1	432	575	150	279.5	0.655	-0.026	-0.001	0.634	17	17	13	8	-0.007	0	-0.001	1	0.110	0.080	0.048	Light	Light	Moderate		
A	SLZ1	433	1150	150	279.5	0.684	-0.024	0.011	0.660	16	16	11	8					0.105	0.075	0.050	Light	Light	Moderate		
B	SLZ1	433	1150	150	279.5	0.677	-0.024	0.01	0.654	14	14	12	8	-0.007	0	-0.001	-2	0.095	0.076	0.051	Light	Light	Moderate		
A	SLZ1	441	0	250	279.5	0.699	-0.039	0.011	0.676	15	15	12	8					0.102	0.084	0.056	Light	Light	Moderate		
B	SLZ1	441	0	250	279.5	0.703	-0.028	0.004	0.679	15	15	12	8	0.004	0.011	-0.007	0	0.104	0.083	0.056	Light	Light	Moderate		
A	SLZ1	442	575	250	279.5	0.699	-0.029	0.004	0.674	15	15	11	8					0.102	0.076	0.055	Light	Light	Moderate		
B	SLZ1	442	575	250	279.5	0.703	-0.03	0.002	0.678	15	15	12	8	0.004	-0.001	-0.002	0	0.100	0.079	0.054	Light	Light	Moderate		
A	SLZ1	443	1150	250	279.5	0.718	-0.031	0.012	0.692	15	15	11	8					0.104	0.079	0.057	Light	Light	Moderate		
B	SLZ1	443	1150	250	279.5	0.718	-0.028	0.007	0.692	15	15	11	8	0	0.003	-0.005	0	0.103	0.076	0.055	Light	Light	Moderate		
A	SLZ2	501	0	25	279.5	0.496	-0.024	0.001	0.486	19	19	15	8					0.093	0.072	0.041	Light	Light	Light		
B	SLZ2	501	0	25	279.5	0.471	-0.013	0.003	0.465	20	21	16	10	-0.025	0.011	0.002	1	0.100	0.074	0.047	Light	Light	Moderate		
A	SLZ2	502	575	25	279.5	0.507	-0.021	0.007	0.497	19	20	15	9					0.097	0.074	0.044	Light	Light	Moderate		
B	SLZ2	502	575	25	279.5	0.506	-0.027	0.009	0.497	20	20	16	10	-0.001	-0.006	0.002	1	0.101	0.078	0.048	Light	Light	Moderate		
A	SLZ2	503	1150	25	279.5	0.536	-0.024	0.015	0.524	19	19	15	9					0.102	0.077	0.046	Light	Light	Moderate		
B	SLZ2	503	1150	25	279.5	0.524	-0.02	0.013	0.512	20	21	14	8	-0.012	0.004	-0.002	1	0.106	0.074	0.043	Light	Light	Light		

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	SLZ2	511	0	50	279.5	0.559	-0.021	0.008	0.543	18	18	13	7					0.100	0.072	0.041	Light	Light	Light
B	SLZ2	511	0	50	279.5	0.526	-0.015	0.007	0.514	20	21	14	9	-0.033	0.006	-0.001	2	0.105	0.073	0.046	Light	Light	Moderate
A	SLZ2	512	575	50	279.5	0.55	-0.025	0.007	0.537	19	19	14	9					0.104	0.075	0.049	Light	Light	Moderate
B	SLZ2	512	575	50	279.5	0.556	-0.029	0.006	0.544	20	20	15	9	0.006	-0.004	-0.001	1	0.108	0.080	0.050	Light	Light	Moderate
A	SLZ2	513	1150	50	279.5	0.59	-0.016	0.01	0.573	18	19	14	8					0.107	0.080	0.046	Light	Light	Moderate
B	SLZ2	513	1150	50	279.5	0.579	-0.02	0.012	0.563	18	19	13	8	-0.011	-0.004	0.002	0	0.104	0.073	0.046	Light	Light	Moderate
A	SLZ2	521	0	100	279.5	0.638	-0.021	0.008	0.617	17	17	13	7					0.105	0.077	0.045	Light	Light	Moderate
B	SLZ2	521	0	100	279.5	0.598	-0.022	0.009	0.581	19	19	13	8	-0.04	-0.001	0.001	2	0.112	0.078	0.049	Light	Light	Moderate
A	SLZ2	522	575	100	279.5	0.608	-0.027	0.005	0.590	19	19	13	8					0.114	0.078	0.050	Light	Light	Moderate
B	SLZ2	522	575	100	279.5	0.616	-0.028	0.006	0.598	18	18	14	9	0.008	-0.001	0.001	-1	0.110	0.083	0.052	Light	Light	Moderate
A	SLZ2	523	1150	100	279.5	0.644	-0.025	0.01	0.623	17	17	12	8					0.108	0.075	0.047	Light	Light	Moderate
B	SLZ2	523	1150	100	279.5	0.638	-0.022	0.007	0.617	18	18	13	8	-0.006	0.003	-0.003	1	0.113	0.078	0.047	Light	Light	Moderate
A	SLZ2	531	0	150	279.5	0.665	-0.027	0.008	0.643	16	16	12	8					0.101	0.079	0.049	Light	Light	Moderate
B	SLZ2	531	0	150	279.5	0.644	-0.025	0.007	0.624	18	18	13	8	-0.021	0.002	-0.001	2	0.112	0.079	0.053	Light	Light	Moderate
A	SLZ2	532	575	150	279.5	0.668	-0.033	0.008	0.646	16	16	13	7					0.105	0.082	0.048	Light	Light	Moderate
B	SLZ2	532	575	150	279.5	0.652	-0.027	0.005	0.630	16	17	13	8	-0.016	0.006	-0.003	0	0.104	0.080	0.048	Light	Light	Moderate
A	SLZ2	533	1150	150	279.5	0.688	-0.028	0.009	0.664	16	16	12	7					0.103	0.078	0.047	Light	Light	Moderate
B	SLZ2	533	1150	150	279.5	0.677	-0.026	0.01	0.654	16	16	13	8	-0.011	0.002	0.001	0	0.108	0.082	0.050	Light	Light	Moderate
A	SLZ2	541	0	250	279.5	0.717	-0.029	0.007	0.693	15	15	12	8					0.105	0.085	0.055	Light	Light	Moderate
B	SLZ2	541	0	250	279.5	0.699	-0.029	0.005	0.674	15	15	11	8	-0.018	0	-0.002	0	0.101	0.077	0.055	Light	Light	Moderate
A	SLZ2	542	575	250	279.5	0.71	-0.032	0.007	0.685	16	16	12	8					0.108	0.079	0.053	Light	Light	Moderate
B	SLZ2	542	575	250	279.5	0.713	-0.026	0.005	0.687	14	14	12	8	0.003	0.006	-0.002	-2	0.099	0.079	0.054	Light	Light	Moderate
A	SLZ2	543	1150	250	279.5	0.715	-0.029	0.012	0.690	15	15	12	8					0.105	0.079	0.054	Light	Light	Moderate
B	SLZ2	543	1150	250	279.5	0.71	-0.032	0.012	0.686	16	16	12	8	-0.005	-0.003	0	1	0.111	0.083	0.057	Light	Light	Moderate
A	Runway	101	0	25	302	0.524	-0.031	0.004	0.514	20	21	16	9					0.106	0.082	0.049	Light	Light	Moderate
B	Runway	101	0	25	302	0.523	-0.026	0.006	0.513	20	20	16	9	-0.001	0.005	0.002	0	0.103	0.081	0.048	Light	Light	Moderate
A	Runway	102	695	25	302	0.513	-0.028	0.014	0.503	19	20	15	9					0.099	0.077	0.046	Light	Light	Moderate
B	Runway	102	695	25	302	0.51	-0.035	0.016	0.500	19	19	15	9	-0.003	-0.007	0.002	0	0.097	0.074	0.044	Light	Light	Moderate
A	Runway	103	1389	25	302	0.524	-0.025	0.008	0.512	19	19	15	8					0.097	0.076	0.041	Light	Light	Light
B	Runway	103	1389	25	302	0.534	-0.054	0.014	0.523	19	19	14	9	0.01	-0.029	0.006	0	0.098	0.075	0.045	Light	Light	Moderate
A	Runway	104	2064	25	302	0.51	-0.014	0.007	0.499	20	20	16	8					0.100	0.079	0.041	Light	Light	Light
B	Runway	104	2064	25	302	0.456	-0.049	0.019	0.456	21	22	19	10	-0.054	-0.035	0.012	1	0.101	0.086	0.047	Light	Light	Moderate
A	Runway	105	2739	25	302	0.521	-0.013	0.002	0.509	18	19	15	8					0.095	0.075	0.040	Light	Light	Light
B	Runway	105	2739	25	302	0.457	-0.038	0.009	0.453	20	21	17	10	-0.064	-0.025	0.007	2	0.093	0.077	0.045	Light	Light	Moderate
A	Runway	106	3300	25	302	0.512	-0.023	0.004	0.501	19	19	15	8					0.095	0.073	0.041	Light	Light	Light
B	Runway	106	3300	25	302	0.428	-0.015	0.013	0.430	23	25	21	11	-0.084	0.008	0.009	-4	0.106	0.092	0.049	Light	Light	Moderate
A	Runway	107	3875	25	302	0.452	-0.056	0.001	0.452	22	23	17	12					0.103	0.078	0.055	Light	Light	Moderate
B	Runway	107	3875	25	302	0.443	-0.054	0.001	0.444	21	23	17	13	-0.009	0.002	0	-1	0.101	0.077	0.057	Light	Light	Moderate
A	Runway	108	4450	25	302	0.443	-0.05	0.012	0.449	23	25	21	13					0.113	0.092	0.058	Light	Light	Moderate
B	Runway	108	4450	25	302	0.438	-0.057	0.013	0.445	23	24	20	14	-0.005	-0.007	0.001	0	0.108	0.089	0.060	Light	Light	Moderate
A	Runway	111	0	50	302	0.563	-0.031	0.002	0.549	20	21	14	9					0.113	0.077	0.049	Light	Light	Moderate
B	Runway	111	0	50	302	0.586	-0.029	0.006	0.570	19	19	14	9	0.023	0.002	0.004	-1	0.109	0.078	0.052	Light	Light	Moderate
A	Runway	112	695	50	302	0.556	-0.022	0.01	0.543	20	20	15	9					0.110	0.079	0.048	Light	Light	Moderate
B	Runway	112	695	50	302	0.546	-0.03	0.016	0.534	20	20	15	9	-0.01	-0.008	0.006	0	0.106	0.079	0.049	Light	Light	Moderate
A	Runway	113	1389	50	302	0.563	-0.029	0.013	0.549	18	18	14	8					0.101	0.077	0.045	Light	Light	Moderate
B	Runway	113	1389	50	302	0.565	-0.048	0.007	0.552	19	19	13	9	0.002	-0.019	-0.006	1	0.107	0.074	0.049	Light	Light	Moderate
A	Runway	114	2064	50	302	0.551	-0.019	0.012	0.537	18	18	15	8					0.098	0.078	0.043	Light	Light	Light
B	Runway	114	2064	50	302	0.503	-0.047	0.014	0.498	21	22	17	11	-0.048	-0.028	0.002	3	0.108	0.087	0.053	Light	Light	Moderate
A	Runway	115	2739	50	302	0.565	-0.01	0.009	0.550	18	18	14	8					0.100	0.079	0.043	Light	Light	Light
B	Runway	115	2739	50	302	0.503	-0.042	0.008	0.496	20	21	16	10	-0.062	-0.032	-0.001	2	0.105	0.079	0.052	Light	Light	Moderate
A	Runway	116	3300	50	302	0.575	-0.017	0.011	0.559	18	18	15	8					0.099	0.082	0.042	Light	Light	Light
B	Runway	116	3300	50	302	0.476	-0.02	0.012	0.474	24	24	20	12	-0.099	-0.003	0.001	6	0.116	0.093	0.057	Light	Light	Moderate
A	Runway	117	3875	50	302	0.526	-0.04	-0.016	0.519	22	23	16	11					0.118	0.085	0.056	Light	Light	Moderate
B	Runway	117	3875	50	302	0.514	-0.045	-0.012	0.508	23	23	16	10	-0.012	-0.005	0.004	1	0.119	0.082	0.053	Light	Light	Moderate
A	Runway	118	4450	50	302	0.493	-0.04	0.004	0.489	23	24	18	11					0.118	0.088	0.055	Light	Light	Moderate
B	Runway	118	4450	50	302	0.486	-0.035	0.001	0.484	24	25	18	12	-0.007	0.005	-0.003	1	0.123	0.087	0.059	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	121	0	100	302	0.637	-0.033	0.004	0.618	18	18	13	8					0.112	0.080	0.049	Light	Light	Moderate
B	Runway	121	0	100	302	0.651	-0.036	0.006	0.631	18	18	14	8	0.014	-0.003	0.002	0	0.113	0.086	0.049	Light	Light	Moderate
A	Runway	122	695	100	302	0.61	-0.023	0.012	0.594	18	19	14	9					0.111	0.084	0.052	Light	Light	Moderate
B	Runway	122	695	100	302	0.604	-0.036	0.013	0.589	19	19	14	9	-0.006	-0.013	0.001	1	0.113	0.082	0.052	Light	Light	Moderate
A	Runway	123	1389	100	302	0.623	-0.03	0.01	0.605	17	17	13	8					0.105	0.079	0.048	Light	Light	Moderate
B	Runway	123	1389	100	302	0.631	-0.038	0.001	0.613	17	17	14	8	0.008	-0.008	-0.009	0	0.104	0.083	0.051	Light	Light	Moderate
A	Runway	124	2064	100	302	0.619	-0.023	0.012	0.601	19	19	14	8					0.112	0.085	0.046	Light	Light	Moderate
B	Runway	124	2064	100	302	0.571	-0.034	0.007	0.557	20	21	14	9	-0.048	-0.011	-0.005	1	0.115	0.079	0.052	Light	Light	Moderate
A	Runway	125	2739	100	302	0.61	-0.017	0.011	0.592	18	19	13	8					0.110	0.079	0.049	Light	Light	Moderate
B	Runway	125	2739	100	302	0.571	-0.028	0.003	0.556	20	21	14	9	-0.039	-0.011	-0.008	2	0.115	0.076	0.050	Light	Light	Moderate
A	Runway	126	3300	100	302	0.643	-0.033	0.009	0.623	17	17	13	8					0.106	0.083	0.048	Light	Light	Moderate
B	Runway	126	3300	100	302	0.539	-0.029	0.007	0.532	23	24	17	11	-0.104	0.004	-0.002	6	0.127	0.089	0.059	Light	Light	Moderate
A	Runway	127	3875	100	302	0.622	-0.036	-0.014	0.604	18	18	14	8					0.108	0.084	0.049	Light	Light	Moderate
B	Runway	127	3875	100	302	0.597	-0.032	-0.016	0.581	20	20	13	9	-0.025	0.004	-0.002	2	0.114	0.078	0.051	Light	Light	Moderate
A	Runway	128	4450	100	302	0.597	-0.021	-0.002	0.582	20	20	14	9					0.119	0.084	0.051	Light	Light	Moderate
B	Runway	128	4450	100	302	0.586	-0.018	-0.003	0.572	21	21	15	10	-0.011	0.003	-0.001	1	0.122	0.088	0.054	Light	Light	Moderate
A	Runway	131	0	150	302	0.694	-0.036	0.003	0.670	16	16	12	8					0.106	0.080	0.052	Light	Light	Moderate
B	Runway	131	0	150	302	0.684	-0.036	0.007	0.661	16	17	12	8	-0.01	0	0.004	0	0.109	0.081	0.051	Light	Light	Moderate
A	Runway	132	695	150	302	0.654	-0.036	0.008	0.634	19	19	13	8					0.119	0.082	0.053	Light	Light	Moderate
B	Runway	132	695	150	302	0.657	-0.041	0.01	0.637	18	18	13	8	0.003	-0.005	0.002	-1	0.116	0.082	0.053	Light	Light	Moderate
A	Runway	133	1389	150	302	0.666	-0.029	0.009	0.645	17	17	13	8					0.108	0.083	0.051	Light	Light	Moderate
B	Runway	133	1389	150	302	0.653	-0.033	0.002	0.632	18	18	13	8	-0.013	-0.004	-0.007	1	0.113	0.081	0.052	Light	Light	Moderate
A	Runway	134	2064	150	302	0.647	-0.026	0.011	0.627	18	19	13	8					0.116	0.082	0.052	Light	Light	Moderate
B	Runway	134	2064	150	302	0.629	-0.03	0.005	0.611	19	20	15	8	-0.018	-0.004	-0.006	1	0.119	0.089	0.052	Light	Light	Moderate
A	Runway	135	2739	150	302	0.644	-0.022	0.007	0.624	17	18	13	8					0.109	0.079	0.051	Light	Light	Moderate
B	Runway	135	2739	150	302	0.639	-0.026	-0.001	0.619	18	18	13	8	-0.005	-0.004	-0.008	1	0.113	0.079	0.051	Light	Light	Moderate
A	Runway	136	3300	150	302	0.653	-0.028	0.006	0.632	18	18	13	8					0.112	0.081	0.050	Light	Light	Moderate
B	Runway	136	3300	150	302	0.61	-0.029	0.006	0.595	21	22	14	10	-0.043	-0.001	0	3	0.129	0.085	0.058	Light	Light	Moderate
A	Runway	137	3875	150	302	0.665	-0.034	-0.012	0.644	17	17	13	8					0.110	0.082	0.052	Light	Light	Moderate
B	Runway	137	3875	150	302	0.642	-0.028	-0.012	0.622	18	18	13	9	-0.023	0.006	0	1	0.112	0.079	0.053	Light	Light	Moderate
A	Runway	138	4450	150	302	0.654	-0.018	-0.002	0.633	18	18	12	8					0.115	0.078	0.050	Light	Light	Moderate
B	Runway	138	4450	150	302	0.646	-0.019	0.001	0.626	19	19	13	8	-0.008	-0.001	0.003	1	0.118	0.082	0.053	Light	Light	Moderate
A	Runway	141	0	250	302	0.708	-0.038	0.008	0.683	16	16	11	8					0.109	0.077	0.057	Light	Light	Moderate
B	Runway	141	0	250	302	0.728	-0.031	0.01	0.704	15	15	12	9	0.02	0.007	0.002	-1	0.109	0.087	0.060	Light	Light	Moderate
A	Runway	142	695	250	302	0.705	-0.031	0.008	0.681	16	16	11	8					0.110	0.078	0.058	Light	Light	Moderate
B	Runway	142	695	250	302	0.71	-0.046	0.013	0.688	16	16	13	8	0.005	-0.015	0.005	0	0.112	0.087	0.058	Light	Light	Moderate
A	Runway	143	1389	250	302	0.689	-0.029	0.013	0.666	17	17	13	9					0.110	0.085	0.057	Light	Light	Moderate
B	Runway	143	1389	250	302	0.685	-0.035	0.004	0.663	17	17	12	8	-0.004	-0.006	-0.009	0	0.111	0.082	0.056	Light	Light	Moderate
A	Runway	144	2064	250	302	0.703	-0.027	0.01	0.679	16	16	12	8					0.111	0.082	0.057	Light	Light	Moderate
B	Runway	144	2064	250	302	0.687	-0.031	0.003	0.664	17	17	12	9	-0.016	-0.004	-0.007	1	0.113	0.083	0.059	Light	Light	Moderate
A	Runway	145	2739	250	302	0.684	-0.03	0.011	0.662	17	17	12	8					0.111	0.081	0.053	Light	Light	Moderate
B	Runway	145	2739	250	302	0.702	-0.029	0.001	0.678	16	16	13	8	0.018	0.001	-0.01	-1	0.106	0.085	0.053	Light	Light	Moderate
A	Runway	146	3300	250	302	0.703	-0.031	0.006	0.680	16	16	12	8					0.109	0.082	0.057	Light	Light	Moderate
B	Runway	146	3300	250	302	0.69	-0.03	0.001	0.668	17	17	13	8	-0.013	0.001	-0.005	1	0.114	0.085	0.056	Light	Light	Moderate
A	Runway	147	3875	250	302	0.699	-0.042	-0.007	0.676	15	15	12	8					0.105	0.081	0.056	Light	Light	Moderate
B	Runway	147	3875	250	302	0.697	-0.031	-0.005	0.673	17	17	12	8	-0.002	0.011	0.002	2	0.112	0.080	0.055	Light	Light	Moderate
A	Runway	148	4450	250	302	0.695	-0.023	0.005	0.671	15	15	12	9					0.103	0.080	0.058	Light	Light	Moderate
B	Runway	148	4450	250	302	0.703	-0.029	0.003	0.680	16	16	13	9	0.008	-0.006	-0.002	1	0.111	0.086	0.058	Light	Light	Moderate
A	HPLZ1	201	0	25	302	0.542	-0.03	0.003	0.529	18	18	14	8					0.097	0.077	0.044	Light	Light	Moderate
B	HPLZ1	201	0	25	302	0.541	-0.011	0.002	0.527	19	19	13	8	-0.001	0.019	-0.001	1	0.102	0.070	0.043	Light	Light	Light
A	HPLZ1	202	675	25	302	0.513	-0.022	0.006	0.503	19	19	16	8					0.095	0.079	0.041	Light	Light	Light
B	HPLZ1	202	675	25	302	0.493	-0.043	0.003	0.485	20	20	16	9	-0.02	-0.021	-0.003	1	0.096	0.077	0.044	Light	Light	Moderate
A	HPLZ1	203	1350	25	302	0.514	-0.007	0.005	0.502	18	19	15	8					0.093	0.074	0.040	Light	Light	Light
B	HPLZ1	203	1350	25	302	0.477	-0.025	0.01	0.470	19	19	17	9	-0.037	-0.018	0.005	1	0.090	0.078	0.044	Light	Light	Moderate
A	HPLZ1	211	0	50	302	0.577	-0.026	0.005	0.562	18	18	14	8					0.103	0.080	0.045	Light	Light	Moderate
B	HPLZ1	211	0	50	302	0.577	-0.025	0.004	0.561	17	18	13	8	0	0.001	-0.001	-1	0.099	0.074	0.047	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ1	212	675	50	302	0.568	-0.024	0.011	0.553	18	18	14	8					0.100	0.078	0.043	Light	Light	Light
B	HPLZ1	212	675	50	302	0.56	-0.048	0.01	0.548	20	20	15	9	-0.008	-0.024	-0.001	2	0.109	0.082	0.048	Light	Light	Moderate
A	HPLZ1	213	1350	50	302	0.579	-0.017	0.013	0.563	18	18	14	7					0.103	0.077	0.041	Light	Light	Light
B	HPLZ1	213	1350	50	302	0.539	-0.039	0.016	0.529	20	20	16	9	-0.04	-0.022	0.003	2	0.108	0.086	0.046	Light	Light	Moderate
A	HPLZ1	221	0	100	302	0.624	-0.024	0.006	0.606	17	17	13	8					0.106	0.082	0.051	Light	Light	Moderate
B	HPLZ1	221	0	100	302	0.618	-0.034	0.003	0.601	19	19	14	9	-0.006	-0.01	-0.003	2	0.113	0.082	0.053	Light	Light	Moderate
A	HPLZ1	222	675	100	302	0.614	-0.029	0.012	0.596	19	19	14	8					0.111	0.082	0.049	Light	Light	Moderate
B	HPLZ1	222	675	100	302	0.61	-0.039	0.005	0.594	20	20	15	9	-0.004	-0.01	-0.007	1	0.117	0.087	0.053	Light	Light	Moderate
A	HPLZ1	223	1350	100	302	0.617	-0.015	0.013	0.598	18	18	13	8					0.110	0.079	0.047	Light	Light	Moderate
B	HPLZ1	223	1350	100	302	0.599	-0.03	0.007	0.584	19	19	14	9	-0.018	-0.015	-0.006	1	0.110	0.084	0.052	Light	Light	Moderate
A	HPLZ1	231	0	150	302	0.655	-0.032	0.007	0.635	18	18	13	9					0.112	0.083	0.056	Light	Light	Moderate
B	HPLZ1	231	0	150	302	0.659	-0.037	0.006	0.639	18	18	13	8	0.004	-0.005	-0.001	0	0.113	0.084	0.052	Light	Light	Moderate
A	HPLZ1	232	675	150	302	0.648	-0.028	0.01	0.628	18	18	12	8					0.111	0.077	0.052	Light	Light	Moderate
B	HPLZ1	232	675	150	302	0.646	-0.03	0.005	0.627	18	18	13	8	-0.002	-0.002	-0.005	0	0.115	0.085	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	302	0.65	-0.022	0.014	0.630	17	17	13	8					0.108	0.080	0.050	Light	Light	Moderate
B	HPLZ1	233	1350	150	302	0.642	-0.028	0.009	0.623	19	19	13	9	-0.008	-0.006	-0.005	2	0.121	0.083	0.053	Light	Light	Moderate
A	HPLZ1	241	0	250	302	0.713	-0.036	0.009	0.689	16	16	13	8					0.110	0.087	0.057	Light	Light	Moderate
B	HPLZ1	241	0	250	302	0.699	-0.041	0.006	0.676	16	16	12	8	-0.014	-0.005	-0.003	0	0.109	0.084	0.056	Light	Light	Moderate
A	HPLZ1	242	675	250	302	0.699	-0.034	0.01	0.676	17	17	12	8					0.115	0.084	0.057	Light	Light	Moderate
B	HPLZ1	242	675	250	302	0.708	-0.032	0.004	0.684	16	16	13	8	0.009	0.002	-0.006	-1	0.108	0.087	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	302	0.693	-0.025	0.009	0.670	17	17	12	9					0.113	0.082	0.057	Light	Light	Moderate
B	HPLZ1	243	1350	250	302	0.688	-0.027	0.004	0.665	16	16	12	9	-0.005	-0.002	-0.005	-1	0.109	0.082	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	302	0.529	-0.028	0.007	0.517	19	19	15	8					0.097	0.075	0.041	Light	Light	Light
B	HPLZ2	301	0	25	302	0.457	-0.016	0.002	0.455	24	25	19	11	-0.072	0.012	-0.005	5	0.115	0.088	0.050	Light	Light	Moderate
A	HPLZ2	302	675	25	302	0.529	-0.024	0.004	0.516	18	18	14	8					0.092	0.074	0.040	Light	Light	Light
B	HPLZ2	302	675	25	302	0.544	-0.032	0.008	0.530	18	18	14	8	0.015	-0.008	0.004	0	0.094	0.074	0.041	Light	Light	Light
A	HPLZ2	303	1350	25	302	0.525	-0.019	-0.001	0.513	18	18	14	8					0.091	0.074	0.040	Light	Light	Light
B	HPLZ2	303	1350	25	302	0.494	-0.036	0.005	0.486	19	19	16	9	-0.031	-0.017	0.006	1	0.094	0.077	0.042	Light	Light	Light
A	HPLZ2	311	0	50	302	0.569	-0.035	0.012	0.555	19	19	15	8					0.106	0.081	0.045	Light	Light	Moderate
B	HPLZ2	311	0	50	302	0.548	-0.014	0.01	0.536	21	22	15	9	-0.021	0.021	-0.002	2	0.116	0.081	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	302	0.575	-0.027	0.014	0.560	19	19	14	7					0.104	0.080	0.041	Light	Light	Light
B	HPLZ2	312	675	50	302	0.593	-0.034	0.009	0.575	17	17	13	8	0.018	-0.007	-0.005	-2	0.100	0.073	0.043	Light	Light	Light
A	HPLZ2	313	1350	50	302	0.571	-0.024	0.011	0.556	19	19	14	8					0.104	0.079	0.042	Light	Light	Light
B	HPLZ2	313	1350	50	302	0.563	-0.039	0.01	0.550	20	20	15	8	-0.008	-0.015	-0.001	1	0.108	0.082	0.045	Light	Light	Moderate
A	HPLZ2	321	0	100	302	0.623	-0.03	0.011	0.605	18	18	13	8					0.108	0.081	0.050	Light	Light	Moderate
B	HPLZ2	321	0	100	302	0.611	-0.023	0.011	0.593	19	19	13	9	-0.012	0.007	0	1	0.112	0.076	0.051	Light	Light	Moderate
A	HPLZ2	322	675	100	302	0.62	-0.031	0.014	0.602	17	17	13	8					0.101	0.078	0.049	Light	Light	Moderate
B	HPLZ2	322	675	100	302	0.632	-0.033	0.009	0.612	17	17	13	8	0.012	-0.002	-0.005	0	0.104	0.079	0.047	Light	Light	Moderate
A	HPLZ2	323	1350	100	302	0.636	-0.025	0.011	0.616	17	17	13	8					0.108	0.078	0.047	Light	Light	Moderate
B	HPLZ2	323	1350	100	302	0.604	-0.033	0.009	0.588	19	19	14	9	-0.032	-0.008	-0.002	2	0.112	0.083	0.053	Light	Light	Moderate
A	HPLZ2	331	0	150	302	0.661	-0.03	0.012	0.641	17	17	14	9					0.111	0.090	0.055	Light	Light	Moderate
B	HPLZ2	331	0	150	302	0.646	-0.034	0.013	0.626	18	18	13	9	-0.015	-0.004	0.001	1	0.114	0.080	0.055	Light	Light	Moderate
A	HPLZ2	332	675	150	302	0.658	-0.024	0.012	0.638	17	17	13	8					0.110	0.084	0.052	Light	Light	Moderate
B	HPLZ2	332	675	150	302	0.663	-0.034	0.009	0.643	17	17	13	8	0.005	-0.01	-0.003	0	0.111	0.086	0.053	Light	Light	Moderate
A	HPLZ2	333	1350	150	302	0.666	-0.024	0.01	0.645	17	17	13	8					0.109	0.084	0.054	Light	Light	Moderate
B	HPLZ2	333	1350	150	302	0.659	-0.032	0.004	0.639	17	17	13	8	-0.007	-0.008	-0.006	0	0.111	0.084	0.054	Light	Light	Moderate
A	HPLZ2	341	0	250	302	0.703	-0.036	0.011	0.680	16	16	12	8					0.108	0.083	0.058	Light	Light	Moderate
B	HPLZ2	341	0	250	302	0.706	-0.037	0.007	0.683	15	15	12	8	0.003	-0.001	-0.004	-1	0.105	0.084	0.058	Light	Light	Moderate
A	HPLZ2	342	675	250	302	0.707	-0.032	0.011	0.683	16	16	12	8					0.107	0.082	0.055	Light	Light	Moderate
B	HPLZ2	342	675	250	302	0.707	-0.034	0.007	0.683	16	16	13	9	0	-0.002	-0.004	0	0.110	0.086	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	302	0.699	-0.033	0.005	0.675	16	16	12	8					0.110	0.082	0.057	Light	Light	Moderate
B	HPLZ2	343	1350	250	302	0.689	-0.03	0.004	0.667	17	17	13	9	-0.01	0.003	-0.001	1	0.112	0.084	0.057	Light	Light	Moderate
A	SLZ1	401	0	25	302	0.516	-0.026	0.002	0.504	18	19	15	8					0.094	0.074	0.041	Light	Light	Light
B	SLZ1	401	0	25	302	0.472	-0.032	0.011	0.468	22	22	19	10	-0.044	-0.006	0.009	4	0.105	0.087	0.047	Light	Light	Moderate
A	SLZ1	402	575	25	302	0.514	-0.019	0.005	0.503	19	19	15	9					0.097	0.075	0.044	Light	Light	Moderate
B	SLZ1	402	575	25	302	0.479	-0.015	0.006	0.472	20	21	17	10	-0.035	0.004	0.001	1	0.100	0.078	0.048	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	SLZ1	403	1150	25	302	0.5	-0.041	0.01	0.492	20	20	15	10					0.100	0.076	0.047	Light	Light	Moderate
B	SLZ1	403	1150	25	302	0.498	-0.044	0.012	0.492	21	21	17	10	-0.002	-0.003	0.002	1	0.102	0.086	0.049	Light	Light	Moderate
A	SLZ1	411	0	50	302	0.59	-0.021	0.008	0.573	18	18	14	7					0.104	0.081	0.042	Light	Light	Light
B	SLZ1	411	0	50	302	0.512	-0.037	0.011	0.505	21	22	17	10	-0.078	-0.016	0.003	3	0.110	0.088	0.052	Light	Light	Moderate
A	SLZ1	412	575	50	302	0.559	-0.028	0.005	0.546	20	20	15	8					0.107	0.081	0.045	Light	Light	Moderate
B	SLZ1	412	575	50	302	0.527	-0.021	0.007	0.516	20	21	14	9	-0.032	0.007	0.002	0	0.106	0.073	0.048	Light	Light	Moderate
A	SLZ1	413	1150	50	302	0.542	-0.042	0.004	0.532	20	21	15	10					0.111	0.081	0.053	Light	Light	Moderate
B	SLZ1	413	1150	50	302	0.529	-0.046	0.008	0.521	22	22	15	10	-0.013	-0.004	0.004	2	0.115	0.081	0.054	Light	Light	Moderate
A	SLZ1	421	0	100	302	0.623	-0.027	0.008	0.604	17	17	13	8					0.104	0.079	0.048	Light	Light	Moderate
B	SLZ1	421	0	100	302	0.577	-0.038	0.01	0.564	20	20	15	10	-0.046	-0.011	0.002	3	0.115	0.084	0.054	Light	Light	Moderate
A	SLZ1	422	575	100	302	0.624	-0.041	0.009	0.607	18	18	13	8					0.109	0.081	0.049	Light	Light	Moderate
B	SLZ1	422	575	100	302	0.59	-0.031	0.003	0.574	20	20	13	9	-0.034	0.01	-0.006	2	0.115	0.074	0.052	Light	Light	Moderate
A	SLZ1	423	1150	100	302	0.612	-0.037	0.001	0.596	19	20	14	8					0.117	0.083	0.051	Light	Light	Moderate
B	SLZ1	423	1150	100	302	0.594	-0.03	-0.001	0.579	20	20	14	9	-0.018	0.007	-0.002	1	0.118	0.083	0.052	Light	Light	Moderate
A	SLZ1	431	0	150	302	0.659	-0.029	0.006	0.637	16	16	12	8					0.105	0.079	0.053	Light	Light	Moderate
B	SLZ1	431	0	150	302	0.609	-0.029	0.007	0.592	21	21	13	9	-0.05	0	0.001	5	0.126	0.079	0.055	Light	Light	Moderate
A	SLZ1	432	575	150	302	0.661	-0.037	0.003	0.640	17	17	13	8					0.111	0.083	0.052	Light	Light	Moderate
B	SLZ1	432	575	150	302	0.628	-0.032	0.003	0.609	18	19	13	9	-0.033	0.005	0	1	0.114	0.077	0.052	Light	Light	Moderate
A	SLZ1	433	1150	150	302	0.652	-0.029	0.002	0.631	18	18	13	8					0.112	0.083	0.050	Light	Light	Moderate
B	SLZ1	433	1150	150	302	0.653	-0.021	0.002	0.632	16	17	13	8	0.001	0.008	0	-2	0.104	0.081	0.051	Light	Light	Moderate
A	SLZ1	441	0	250	302	0.679	-0.031	0.011	0.657	16	16	12	8					0.107	0.080	0.054	Light	Light	Moderate
B	SLZ1	441	0	250	302	0.671	-0.032	0.004	0.650	18	19	12	9	-0.008	-0.001	-0.007	2	0.120	0.079	0.058	Light	Light	Moderate
A	SLZ1	442	575	250	302	0.697	-0.04	0.003	0.673	16	16	11	8					0.107	0.076	0.057	Light	Light	Moderate
B	SLZ1	442	575	250	302	0.682	-0.033	0	0.659	17	17	12	8	-0.015	0.007	-0.003	1	0.115	0.080	0.055	Light	Light	Moderate
A	SLZ1	443	1150	250	302	0.701	-0.03	0.001	0.677	15	15	12	8					0.105	0.081	0.056	Light	Light	Moderate
B	SLZ1	443	1150	250	302	0.704	-0.03	0.004	0.680	16	16	13	8	0.003	0	0.003	1	0.108	0.086	0.056	Light	Light	Moderate
A	SLZ2	501	0	25	302	0.501	-0.024	-0.002	0.490	19	20	13	9					0.096	0.066	0.043	Light	Light	Light
B	SLZ2	501	0	25	302	0.472	-0.024	0	0.465	21	22	15	10	-0.029	0	0.002	2	0.103	0.070	0.047	Light	Light	Moderate
A	SLZ2	502	575	25	302	0.53	-0.025	0.003	0.518	18	19	15	8					0.096	0.077	0.042	Light	Light	Light
B	SLZ2	502	575	25	302	0.479	-0.019	0.01	0.472	20	21	17	9	-0.051	0.006	0.007	2	0.099	0.080	0.044	Light	Light	Moderate
A	SLZ2	503	1150	25	302	0.529	-0.019	0.011	0.516	18	18	14	8					0.095	0.071	0.041	Light	Light	Light
B	SLZ2	503	1150	25	302	0.531	-0.02	0.011	0.518	18	18	14	8	0.002	-0.001	0	0	0.095	0.073	0.042	Light	Light	Light
A	SLZ2	511	0	50	302	0.583	-0.024	-0.007	0.567	19	19	14	8					0.108	0.078	0.044	Light	Light	Moderate
B	SLZ2	511	0	50	302	0.542	-0.04	0	0.531	21	21	15	9	-0.041	-0.016	0.007	2	0.111	0.081	0.046	Light	Light	Moderate
A	SLZ2	512	575	50	302	0.58	-0.023	0.01	0.564	18	18	13	7					0.104	0.076	0.042	Light	Light	Light
B	SLZ2	512	575	50	302	0.552	-0.027	0.013	0.540	20	20	16	9	-0.028	-0.004	0.003	2	0.110	0.085	0.049	Light	Light	Moderate
A	SLZ2	513	1150	50	302	0.577	-0.023	0.012	0.561	17	17	13	8					0.097	0.075	0.045	Light	Light	Moderate
B	SLZ2	513	1150	50	302	0.559	-0.024	0.01	0.545	19	19	14	9	-0.018	-0.001	-0.002	2	0.103	0.077	0.047	Light	Light	Moderate
A	SLZ2	521	0	100	302	0.637	-0.029	0.006	0.618	17	17	13	7					0.106	0.083	0.045	Light	Light	Moderate
B	SLZ2	521	0	100	302	0.599	-0.042	0.006	0.584	19	19	15	9	-0.038	-0.013	0	2	0.113	0.085	0.052	Light	Light	Moderate
A	SLZ2	522	575	100	302	0.633	-0.025	0.016	0.613	17	17	13	8					0.103	0.081	0.047	Light	Light	Moderate
B	SLZ2	522	575	100	302	0.596	-0.03	0.011	0.581	20	20	14	9	-0.037	-0.005	-0.005	3	0.115	0.082	0.054	Light	Light	Moderate
A	SLZ2	523	1150	100	302	0.635	-0.035	0.008	0.616	18	18	13	8					0.113	0.079	0.049	Light	Light	Moderate
B	SLZ2	523	1150	100	302	0.613	-0.027	0.007	0.595	18	19	13	9	-0.022	0.008	-0.001	0	0.111	0.075	0.052	Light	Light	Moderate
A	SLZ2	531	0	150	302	0.654	-0.026	0.006	0.633	16	16	13	8					0.104	0.081	0.051	Light	Light	Moderate
B	SLZ2	531	0	150	302	0.639	-0.037	0.005	0.621	19	19	13	8	-0.015	-0.011	-0.001	3	0.120	0.083	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	302	0.664	-0.032	0.011	0.642	17	17	12	8					0.109	0.076	0.049	Light	Light	Moderate
B	SLZ2	532	575	150	302	0.613	-0.029	0.013	0.596	20	20	14	10	-0.051	0.003	0.002	3	0.119	0.083	0.058	Light	Light	Moderate
A	SLZ2	533	1150	150	302	0.685	-0.04	0.005	0.663	16	16	13	8					0.106	0.083	0.053	Light	Light	Moderate
B	SLZ2	533	1150	150	302	0.649	-0.026	0.003	0.629	17	18	13	8	-0.036	0.014	-0.002	1	0.111	0.082	0.053	Light	Light	Moderate
A	SLZ2	541	0	250	302	0.691	-0.028	0.008	0.669	17	17	12	9					0.116	0.083	0.058	Light	Light	Moderate
B	SLZ2	541	0	250	302	0.692	-0.025	0.003	0.669	17	17	12	8	0.001	0.003	-0.005	0	0.117	0.082	0.056	Light	Light	Moderate
A	SLZ2	542	575	250	302	0.701	-0.033	0.007	0.677	15	15	12	8					0.104	0.081	0.056	Light	Light	Moderate
B	SLZ2	542	575	250	302	0.674	-0.03	0.009	0.652	18	18	13	9	-0.027	0.003	0.002	3	0.115	0.082	0.059	Light	Light	Moderate
A	SLZ2	543	1150	250	302	0.709	-0.036	0.007	0.685	15	15	12	8					0.105	0.081	0.056	Light	Light	Moderate
B	SLZ2	543	1150	250	302	0.697	-0.031	0.005	0.673	16	17	11	8	-0.012	0.005	-0.002	1	0.111	0.077	0.057	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	101	0	25	324.5	0.567	-0.027	0.005	0.552	18	18	14	7					0.098	0.076	0.040	Light	Light	Light
B	Runway	101	0	25	324.5	0.56	-0.018	0.005	0.546	18	18	15	8	-0.007	0.009	0	0	0.097	0.081	0.043	Light	Light	Light
A	Runway	102	695	25	324.5	0.535	-0.025	0.013	0.523	19	19	15	8					0.100	0.077	0.044	Light	Light	Moderate
B	Runway	102	695	25	324.5	0.541	-0.022	0.015	0.528	19	19	15	8	0.006	0.003	0.002	0	0.101	0.077	0.043	Light	Light	Light
A	Runway	103	1389	25	324.5	0.52	-0.022	0.01	0.508	20	20	14	8					0.102	0.073	0.041	Light	Light	Light
B	Runway	103	1389	25	324.5	0.497	-0.011	0.014	0.490	22	22	18	9	-0.023	0.011	0.004	2	0.107	0.086	0.046	Light	Light	Moderate
A	Runway	104	2064	25	324.5	0.524	-0.023	0.005	0.513	18	19	16	8					0.095	0.083	0.042	Light	Light	Light
B	Runway	104	2064	25	324.5	0.53	-0.022	0.004	0.516	18	18	13	8	0.006	0.001	-0.001	0	0.094	0.069	0.040	Light	Light	Light
A	Runway	105	2739	25	324.5	0.515	-0.015	0.004	0.503	19	19	15	8					0.095	0.073	0.040	Light	Light	Light
B	Runway	105	2739	25	324.5	0.519	-0.027	0.004	0.507	18	18	14	8	0.004	-0.012	0	-1	0.090	0.071	0.041	Light	Light	Light
A	Runway	106	3300	25	324.5	0.544	-0.021	-0.004	0.530	18	19	14	8					0.098	0.072	0.041	Light	Light	Light
B	Runway	106	3300	25	324.5	0.539	-0.045	0.002	0.527	18	18	14	8	-0.005	-0.024	0.006	0	0.096	0.076	0.042	Light	Light	Light
A	Runway	107	3875	25	324.5	0.505	-0.028	0.003	0.496	20	20	16	9					0.098	0.082	0.044	Light	Light	Moderate
B	Runway	107	3875	25	324.5	0.498	-0.041	0.008	0.492	21	21	18	10	-0.007	-0.013	0.005	1	0.105	0.088	0.047	Light	Light	Moderate
A	Runway	108	4450	25	324.5	0.531	-0.038	0.006	0.519	18	18	14	8					0.095	0.072	0.043	Light	Light	Light
B	Runway	108	4450	25	324.5	0.511	-0.035	0.007	0.502	19	20	16	9	-0.02	0.003	0.001	1	0.098	0.080	0.048	Light	Light	Moderate
A	Runway	111	0	50	324.5	0.622	-0.03	0.008	0.604	18	18	13	7					0.107	0.081	0.043	Light	Light	Light
B	Runway	111	0	50	324.5	0.592	-0.028	0.011	0.576	17	17	14	8	-0.03	0.002	0.003	-1	0.098	0.081	0.045	Light	Light	Moderate
A	Runway	112	695	50	324.5	0.562	-0.027	0.015	0.548	19	19	14	8					0.103	0.079	0.044	Light	Light	Moderate
B	Runway	112	695	50	324.5	0.578	-0.022	0.014	0.563	18	18	15	8	0.016	0.005	-0.001	-1	0.100	0.082	0.046	Light	Light	Moderate
A	Runway	113	1389	50	324.5	0.576	-0.023	0.01	0.560	18	18	13	8					0.100	0.076	0.043	Light	Light	Light
B	Runway	113	1389	50	324.5	0.551	-0.019	0.013	0.539	19	19	15	9	-0.025	0.004	0.003	1	0.103	0.083	0.049	Light	Light	Moderate
A	Runway	114	2064	50	324.5	0.568	-0.021	0.013	0.553	19	19	15	7					0.103	0.081	0.041	Light	Light	Light
B	Runway	114	2064	50	324.5	0.584	-0.031	0.013	0.567	17	17	12	8	0.016	-0.01	0	-2	0.097	0.069	0.043	Light	Light	Light
A	Runway	115	2739	50	324.5	0.574	-0.028	0.012	0.559	18	18	15	7					0.100	0.082	0.041	Light	Light	Light
B	Runway	115	2739	50	324.5	0.578	-0.035	0.011	0.562	17	17	13	8	0.004	-0.007	-0.001	-1	0.096	0.074	0.044	Light	Light	Moderate
A	Runway	116	3300	50	324.5	0.59	-0.026	0.005	0.573	18	18	14	7					0.101	0.079	0.040	Light	Light	Light
B	Runway	116	3300	50	324.5	0.597	-0.046	0.004	0.581	17	17	13	7	0.007	-0.02	-0.001	-1	0.097	0.077	0.043	Light	Light	Light
A	Runway	117	3875	50	324.5	0.575	-0.036	0.004	0.560	19	19	14	8					0.104	0.076	0.044	Light	Light	Moderate
B	Runway	117	3875	50	324.5	0.548	-0.054	0.011	0.537	20	20	14	9	-0.027	-0.018	0.007	1	0.108	0.075	0.049	Light	Light	Moderate
A	Runway	118	4450	50	324.5	0.565	-0.04	0.006	0.551	19	19	15	9					0.104	0.081	0.047	Light	Light	Moderate
B	Runway	118	4450	50	324.5	0.55	-0.042	0.007	0.540	20	20	16	10	-0.015	-0.002	0.001	1	0.107	0.085	0.051	Light	Light	Moderate
A	Runway	121	0	100	324.5	0.64	-0.031	0.012	0.620	17	17	13	7					0.103	0.078	0.046	Light	Light	Moderate
B	Runway	121	0	100	324.5	0.647	-0.024	0.013	0.627	17	17	13	7	0.007	0.007	0.001	0	0.107	0.083	0.045	Light	Light	Moderate
A	Runway	122	695	100	324.5	0.618	-0.031	0.013	0.600	18	18	13	8					0.108	0.080	0.048	Light	Light	Moderate
B	Runway	122	695	100	324.5	0.631	-0.036	0.014	0.612	18	18	13	8	0.013	-0.005	0.001	0	0.111	0.081	0.049	Light	Light	Moderate
A	Runway	123	1389	100	324.5	0.635	-0.031	0.012	0.616	18	18	14	8					0.113	0.085	0.051	Light	Light	Moderate
B	Runway	123	1389	100	324.5	0.597	-0.033	0.012	0.581	18	18	14	8	-0.038	-0.002	0	0	0.104	0.080	0.048	Light	Light	Moderate
A	Runway	124	2064	100	324.5	0.609	-0.025	0.011	0.591	18	18	13	8					0.105	0.075	0.048	Light	Light	Moderate
B	Runway	124	2064	100	324.5	0.625	-0.032	0.007	0.606	17	17	12	7	0.016	-0.007	-0.004	-1	0.104	0.075	0.045	Light	Light	Moderate
A	Runway	125	2739	100	324.5	0.626	-0.022	0.013	0.606	16	16	13	8					0.099	0.077	0.047	Light	Light	Moderate
B	Runway	125	2739	100	324.5	0.631	-0.033	0.007	0.612	16	16	13	8	0.005	-0.011	-0.006	0	0.099	0.080	0.047	Light	Light	Moderate
A	Runway	126	3300	100	324.5	0.646	-0.025	0.004	0.625	17	17	13	7					0.104	0.080	0.046	Light	Light	Moderate
B	Runway	126	3300	100	324.5	0.633	-0.038	0.005	0.614	18	18	13	8	-0.013	-0.013	0.001	1	0.108	0.079	0.047	Light	Light	Moderate
A	Runway	127	3875	100	324.5	0.623	-0.04	0.004	0.605	17	17	13	8					0.102	0.079	0.049	Light	Light	Moderate
B	Runway	127	3875	100	324.5	0.613	-0.043	0.003	0.597	19	19	13	9	-0.01	-0.003	-0.001	2	0.111	0.079	0.053	Light	Light	Moderate
A	Runway	128	4450	100	324.5	0.646	-0.039	0.002	0.626	17	17	13	7					0.104	0.079	0.047	Light	Light	Moderate
B	Runway	128	4450	100	324.5	0.605	-0.033	0.004	0.589	19	19	15	9	-0.041	0.006	0.002	2	0.111	0.086	0.053	Light	Light	Moderate
A	Runway	131	0	150	324.5	0.665	-0.028	0.01	0.644	17	17	13	8					0.106	0.084	0.053	Light	Light	Moderate
B	Runway	131	0	150	324.5	0.664	-0.031	0.015	0.643	17	17	13	8	-0.001	-0.003	0.005	0	0.107	0.085	0.051	Light	Light	Moderate
A	Runway	132	695	150	324.5	0.665	-0.038	0.015	0.645	17	17	13	8					0.111	0.085	0.051	Light	Light	Moderate
B	Runway	132	695	150	324.5	0.661	-0.032	0.016	0.640	16	16	13	8	-0.004	0.006	0.001	-1	0.104	0.086	0.051	Light	Light	Moderate
A	Runway	133	1389	150	324.5	0.65	-0.025	0.013	0.630	17	17	13	8					0.109	0.084	0.052	Light	Light	Moderate
B	Runway	133	1389	150	324.5	0.663	-0.038	0.008	0.643	18	18	13	8	0.013	-0.013	-0.005	1	0.116	0.085	0.053	Light	Light	Moderate
A	Runway	134	2064	150	324.5	0.663	-0.037	0.01	0.643	18	18	13	8					0.113	0.084	0.053	Light	Light	Moderate
B	Runway	134	2064	150	324.5	0.665	-0.032	0.004	0.644	17	17	13	8	0.002	0.005	-0.006	-1	0.108	0.084	0.050	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	Runway	135	2739	150	324.5	0.651	-0.034	0.015	0.631	17	17	13	8					0.104	0.083	0.052	Light	Light	Moderate
B	Runway	135	2739	150	324.5	0.657	-0.032	0.007	0.636	16	16	13	8	0.006	0.002	-0.008	-1	0.103	0.081	0.051	Light	Light	Moderate
A	Runway	136	3300	150	324.5	0.659	-0.021	0.011	0.638	16	16	12	8					0.104	0.079	0.052	Light	Light	Moderate
B	Runway	136	3300	150	324.5	0.665	-0.032	0.003	0.643	17	17	13	8	0.006	-0.011	-0.008	1	0.107	0.081	0.050	Light	Light	Moderate
A	Runway	137	3875	150	324.5	0.663	-0.035	0.001	0.641	16	16	12	8					0.104	0.076	0.053	Light	Light	Moderate
B	Runway	137	3875	150	324.5	0.654	-0.051	0.003	0.635	17	17	13	9	-0.009	-0.016	0.002	1	0.110	0.080	0.055	Light	Light	Moderate
A	Runway	138	4450	150	324.5	0.664	-0.035	0.005	0.642	17	17	13	8					0.106	0.080	0.049	Light	Light	Moderate
B	Runway	138	4450	150	324.5	0.637	-0.034	0.002	0.618	19	19	13	8	-0.027	0.001	-0.003	2	0.116	0.080	0.052	Light	Light	Moderate
A	Runway	141	0	250	324.5	0.702	-0.036	0.009	0.679	16	16	12	9					0.109	0.082	0.059	Light	Light	Moderate
B	Runway	141	0	250	324.5	0.696	-0.034	0.01	0.674	16	16	13	9	-0.006	0.002	0.001	0	0.106	0.085	0.058	Light	Light	Moderate
A	Runway	142	695	250	324.5	0.705	-0.036	0.011	0.682	15	15	13	8					0.105	0.090	0.056	Light	Light	Moderate
B	Runway	142	695	250	324.5	0.704	-0.037	0.014	0.682	15	15	13	8	-0.001	-0.001	0.003	0	0.104	0.089	0.058	Light	Light	Moderate
A	Runway	143	1389	250	324.5	0.691	-0.035	0.01	0.668	15	15	12	8					0.103	0.082	0.056	Light	Light	Moderate
B	Runway	143	1389	250	324.5	0.707	-0.038	0.011	0.683	16	16	12	9	0.016	-0.003	0.001	1	0.107	0.083	0.059	Light	Light	Moderate
A	Runway	144	2064	250	324.5	0.693	-0.036	0.012	0.671	16	16	13	8					0.109	0.088	0.057	Light	Light	Moderate
B	Runway	144	2064	250	324.5	0.712	-0.036	0.005	0.688	16	16	12	9	0.019	0	-0.007	0	0.108	0.085	0.059	Light	Light	Moderate
A	Runway	145	2739	250	324.5	0.698	-0.039	0.01	0.675	17	17	12	8					0.113	0.082	0.057	Light	Light	Moderate
B	Runway	145	2739	250	324.5	0.703	-0.033	0.005	0.679	15	15	12	8	0.005	0.006	-0.005	-2	0.105	0.085	0.057	Light	Light	Moderate
A	Runway	146	3300	250	324.5	0.705	-0.027	0.006	0.681	16	16	12	8					0.106	0.078	0.056	Light	Light	Moderate
B	Runway	146	3300	250	324.5	0.7	-0.031	0.003	0.675	16	16	11	8	-0.005	-0.004	-0.003	0	0.105	0.076	0.054	Light	Light	Moderate
A	Runway	147	3875	250	324.5	0.704	-0.041	0	0.681	16	16	12	9					0.106	0.082	0.058	Light	Light	Moderate
B	Runway	147	3875	250	324.5	0.684	-0.035	0.001	0.660	16	16	12	8	-0.02	0.006	0.001	0	0.107	0.077	0.055	Light	Light	Moderate
A	Runway	148	4450	250	324.5	0.708	-0.035	-0.001	0.684	16	16	12	8					0.106	0.080	0.056	Light	Light	Moderate
B	Runway	148	4450	250	324.5	0.712	-0.032	-0.001	0.688	17	17	12	8	0.004	0.003	0	1	0.115	0.085	0.057	Light	Light	Moderate
A	HPLZ1	201	0	25	324.5	0.524	-0.024	0.006	0.512	19	19	15	8					0.098	0.077	0.041	Light	Light	Light
B	HPLZ1	201	0	25	324.5	0.535	-0.02	0.006	0.523	19	19	15	8	0.011	0.004	0	0	0.099	0.079	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	324.5	0.526	-0.022	0.004	0.514	19	19	15	8					0.098	0.075	0.041	Light	Light	Light
B	HPLZ1	202	675	25	324.5	0.514	-0.018	0.002	0.502	19	19	14	8	-0.012	0.004	-0.002	0	0.095	0.071	0.042	Light	Light	Light
A	HPLZ1	203	1350	25	324.5	0.501	-0.012	0.002	0.489	20	20	14	8					0.097	0.069	0.040	Light	Light	Light
B	HPLZ1	203	1350	25	324.5	0.518	-0.011	0	0.506	18	18	14	8	0.017	0.001	-0.002	-2	0.091	0.072	0.041	Light	Light	Light
A	HPLZ1	211	0	50	324.5	0.57	-0.022	0.011	0.555	19	18	14	8					0.102	0.079	0.044	Light	Light	Moderate
B	HPLZ1	211	0	50	324.5	0.589	-0.023	0.009	0.573	19	19	14	8	0.019	-0.001	-0.002	0	0.109	0.081	0.045	Light	Light	Moderate
A	HPLZ1	212	675	50	324.5	0.587	-0.031	0.013	0.571	18	18	14	7					0.100	0.083	0.042	Light	Light	Light
B	HPLZ1	212	675	50	324.5	0.571	-0.02	0.012	0.556	18	18	14	8	-0.016	0.011	-0.001	0	0.102	0.079	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	324.5	0.571	-0.014	0.012	0.556	17	18	14	7					0.098	0.079	0.042	Light	Light	Light
B	HPLZ1	213	1350	50	324.5	0.573	-0.023	0.012	0.557	17	17	13	7	0.002	-0.009	0	0	0.095	0.073	0.040	Light	Light	Light
A	HPLZ1	221	0	100	324.5	0.624	-0.027	0.011	0.605	18	18	12	8					0.107	0.075	0.048	Light	Light	Moderate
B	HPLZ1	221	0	100	324.5	0.625	-0.032	0.012	0.607	17	17	13	8	0.001	-0.005	0.001	-1	0.105	0.080	0.049	Light	Light	Moderate
A	HPLZ1	222	675	100	324.5	0.627	-0.023	0.011	0.608	18	18	13	8					0.108	0.082	0.047	Light	Light	Moderate
B	HPLZ1	222	675	100	324.5	0.62	-0.027	0.013	0.602	18	18	13	8	-0.007	-0.004	0.002	0	0.107	0.080	0.050	Light	Light	Moderate
A	HPLZ1	223	1350	100	324.5	0.623	-0.024	0.017	0.604	17	17	13	8					0.103	0.080	0.047	Light	Light	Moderate
B	HPLZ1	223	1350	100	324.5	0.647	-0.028	0.013	0.626	16	16	13	7	0.024	-0.004	-0.004	-1	0.100	0.080	0.046	Light	Light	Moderate
A	HPLZ1	231	0	150	324.5	0.665	-0.029	0.012	0.644	17	17	13	8					0.112	0.084	0.052	Light	Light	Moderate
B	HPLZ1	231	0	150	324.5	0.664	-0.031	0.008	0.643	17	17	13	8	-0.001	-0.002	-0.004	0	0.108	0.082	0.054	Light	Light	Moderate
A	HPLZ1	232	675	150	324.5	0.643	-0.024	0.014	0.623	17	17	13	8					0.107	0.078	0.051	Light	Light	Moderate
B	HPLZ1	232	675	150	324.5	0.66	-0.028	0.01	0.639	16	17	12	8	0.017	-0.004	-0.004	-1	0.106	0.076	0.054	Light	Light	Moderate
A	HPLZ1	233	1350	150	324.5	0.65	-0.026	0.015	0.629	17	17	13	8					0.105	0.080	0.050	Light	Light	Moderate
B	HPLZ1	233	1350	150	324.5	0.659	-0.025	0.011	0.638	16	16	13	8	0.009	0.001	-0.004	-1	0.103	0.082	0.048	Light	Light	Moderate
A	HPLZ1	241	0	250	324.5	0.712	-0.036	0.011	0.688	16	16	12	8					0.109	0.085	0.058	Light	Light	Moderate
B	HPLZ1	241	0	250	324.5	0.704	-0.037	0.013	0.681	17	17	13	9	-0.008	-0.001	0.002	1	0.113	0.086	0.059	Light	Light	Moderate
A	HPLZ1	242	675	250	324.5	0.708	-0.036	0.008	0.685	16	16	13	8					0.109	0.087	0.057	Light	Light	Moderate
B	HPLZ1	242	675	250	324.5	0.7	-0.037	0.011	0.677	16	16	12	8	-0.008	-0.001	0.003	0	0.107	0.084	0.057	Light	Light	Moderate
A	HPLZ1	243	1350	250	324.5	0.702	-0.034	0.01	0.678	15	15	12	8					0.101	0.081	0.056	Light	Light	Moderate
B	HPLZ1	243	1350	250	324.5	0.707	-0.029	0.005	0.683	16	16	12	8	0.005	0.005	-0.005	1	0.108	0.080	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	324.5	0.557	-0.031	0.013	0.543	18	18	14	7					0.099	0.078	0.038	Light	Light	Light
B	HPLZ2	301	0	25	324.5	0.527	-0.024	-0.007	0.514	20	20	14	9	-0.03	0.007	-0.02	2	0.102	0.071	0.045	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	302	675	25	324.5	0.538	-0.021	0.007	0.524	18	18	14	7					0.092	0.075	0.039	Light	Light	Light
B	HPLZ2	302	675	25	324.5	0.523	-0.018	0.009	0.512	19	19	16	8	-0.015	0.003	0.002	1	0.097	0.080	0.043	Light	Light	Light
A	HPLZ2	303	1350	25	324.5	0.532	-0.023	-0.002	0.519	18	18	15	8					0.094	0.077	0.040	Light	Light	Light
B	HPLZ2	303	1350	25	324.5	0.536	-0.015	-0.001	0.523	19	19	15	8	0.004	0.008	0.001	1	0.097	0.078	0.042	Light	Light	Light
A	HPLZ2	311	0	50	324.5	0.601	-0.029	0.014	0.583	17	17	14	7					0.101	0.080	0.042	Light	Light	Light
B	HPLZ2	311	0	50	324.5	0.582	-0.011	0.003	0.565	18	18	13	7	-0.019	0.018	-0.011	1	0.104	0.075	0.042	Light	Light	Light
A	HPLZ2	312	675	50	324.5	0.586	-0.018	0.013	0.569	18	18	13	7					0.102	0.075	0.041	Light	Light	Light
B	HPLZ2	312	675	50	324.5	0.576	-0.026	0.015	0.560	19	19	13	8	-0.01	-0.008	0.002	1	0.105	0.075	0.045	Light	Light	Moderate
A	HPLZ2	313	1350	50	324.5	0.589	-0.025	0.009	0.572	18	18	14	7					0.103	0.078	0.041	Light	Light	Light
B	HPLZ2	313	1350	50	324.5	0.592	-0.019	0.008	0.575	18	18	14	7	0.003	0.006	-0.001	0	0.103	0.079	0.043	Light	Light	Light
A	HPLZ2	321	0	100	324.5	0.646	-0.03	0.014	0.626	17	17	13	8					0.105	0.083	0.048	Light	Light	Moderate
B	HPLZ2	321	0	100	324.5	0.644	-0.028	0.009	0.624	18	18	14	8	-0.002	0.002	-0.005	1	0.110	0.086	0.049	Light	Light	Moderate
A	HPLZ2	322	675	100	324.5	0.649	-0.024	0.013	0.629	16	16	13	7					0.103	0.083	0.047	Light	Light	Moderate
B	HPLZ2	322	675	100	324.5	0.618	-0.022	0.017	0.600	18	18	14	8	-0.031	0.002	0.004	2	0.109	0.082	0.050	Light	Light	Moderate
A	HPLZ2	323	1350	100	324.5	0.639	-0.027	0.01	0.619	17	17	13	7					0.103	0.080	0.046	Light	Light	Moderate
B	HPLZ2	323	1350	100	324.5	0.639	-0.019	0.01	0.619	17	17	13	8	0	0.008	0	0	0.106	0.083	0.047	Light	Light	Moderate
A	HPLZ2	331	0	150	324.5	0.662	-0.032	0.018	0.641	16	16	13	8					0.105	0.082	0.050	Light	Light	Moderate
B	HPLZ2	331	0	150	324.5	0.665	-0.03	0.01	0.644	17	17	13	8	0.003	0.002	-0.008	1	0.111	0.083	0.051	Light	Light	Moderate
A	HPLZ2	332	675	150	324.5	0.662	-0.028	0.013	0.641	16	16	12	8					0.104	0.079	0.050	Light	Light	Moderate
B	HPLZ2	332	675	150	324.5	0.667	-0.034	0.017	0.645	17	17	13	8	0.005	-0.006	0.004	1	0.111	0.082	0.051	Light	Light	Moderate
A	HPLZ2	333	1350	150	324.5	0.672	-0.028	0.012	0.650	16	17	13	8					0.107	0.083	0.051	Light	Light	Moderate
B	HPLZ2	333	1350	150	324.5	0.675	-0.028	0.01	0.653	16	16	13	8	0.003	0	-0.002	0	0.105	0.082	0.050	Light	Light	Moderate
A	HPLZ2	341	0	250	324.5	0.704	-0.034	0.012	0.680	15	15	12	8					0.103	0.083	0.058	Light	Light	Moderate
B	HPLZ2	341	0	250	324.5	0.703	-0.033	0.008	0.679	17	16	12	9	-0.001	0.001	-0.004	2	0.112	0.082	0.059	Light	Light	Moderate
A	HPLZ2	342	675	250	324.5	0.705	-0.031	0.012	0.682	15	15	13	8					0.105	0.086	0.058	Light	Light	Moderate
B	HPLZ2	342	675	250	324.5	0.702	-0.033	0.012	0.679	16	16	12	9	-0.003	-0.002	0	1	0.110	0.081	0.060	Light	Light	Moderate
A	HPLZ2	343	1350	250	324.5	0.698	-0.035	0.012	0.675	15	15	12	8					0.100	0.081	0.057	Light	Light	Moderate
B	HPLZ2	343	1350	250	324.5	0.721	-0.028	0.008	0.696	16	16	12	8	0.023	0.007	-0.004	1	0.112	0.083	0.058	Light	Light	Moderate
A	SLZ1	401	0	25	324.5	0.512	-0.016	-0.003	0.500	19	19	14	8					0.094	0.069	0.041	Light	Light	Light
B	SLZ1	401	0	25	324.5	0.525	-0.025	-0.005	0.511	18	18	13	8	0.013	-0.009	-0.002	-1	0.092	0.065	0.042	Light	Light	Light
A	SLZ1	402	575	25	324.5	0.532	-0.026	0.003	0.518	18	18	13	8					0.096	0.070	0.040	Light	Light	Light
B	SLZ1	402	575	25	324.5	0.534	-0.036	0.004	0.521	18	18	14	8	0.002	-0.01	0.001	0	0.093	0.072	0.041	Light	Light	Light
A	SLZ1	403	1150	25	324.5	0.543	-0.011	0.008	0.530	18	18	15	8					0.095	0.081	0.041	Light	Light	Light
B	SLZ1	403	1150	25	324.5	0.521	-0.031	0.011	0.510	19	19	15	8	-0.022	-0.02	0.003	1	0.099	0.079	0.042	Light	Light	Light
A	SLZ1	411	0	50	324.5	0.591	-0.018	0.007	0.573	18	18	13	7					0.105	0.072	0.041	Light	Light	Light
B	SLZ1	411	0	50	324.5	0.599	-0.028	0.004	0.581	17	17	13	7	0.008	-0.01	-0.003	-1	0.097	0.074	0.041	Light	Light	Light
A	SLZ1	412	575	50	324.5	0.581	-0.035	0.01	0.565	18	18	13	7					0.104	0.074	0.042	Light	Light	Light
B	SLZ1	412	575	50	324.5	0.597	-0.037	0.008	0.581	17	17	13	7	0.016	-0.002	-0.002	-1	0.100	0.076	0.043	Light	Light	Light
A	SLZ1	413	1150	50	324.5	0.596	-0.021	0.008	0.579	17	17	14	7					0.099	0.079	0.042	Light	Light	Light
B	SLZ1	413	1150	50	324.5	0.582	-0.04	0.013	0.568	19	19	15	8	-0.014	-0.019	0.005	2	0.106	0.086	0.044	Light	Light	Moderate
A	SLZ1	421	0	100	324.5	0.643	-0.019	0.007	0.621	17	17	12	7					0.105	0.074	0.046	Light	Light	Moderate
B	SLZ1	421	0	100	324.5	0.635	-0.031	0.003	0.614	16	16	12	8	-0.008	-0.012	-0.004	-1	0.101	0.073	0.047	Light	Light	Moderate
A	SLZ1	422	575	100	324.5	0.643	-0.033	0.007	0.622	16	16	12	8					0.102	0.077	0.047	Light	Light	Moderate
B	SLZ1	422	575	100	324.5	0.643	-0.038	0.008	0.623	17	17	12	8	0	-0.005	0.001	1	0.107	0.077	0.048	Light	Light	Moderate
A	SLZ1	423	1150	100	324.5	0.644	-0.033	0.01	0.624	17	17	13	7					0.106	0.079	0.045	Light	Light	Moderate
B	SLZ1	423	1150	100	324.5	0.627	-0.037	0.012	0.609	18	18	14	8	-0.017	-0.004	0.002	1	0.110	0.083	0.050	Light	Light	Moderate
A	SLZ1	431	0	150	324.5	0.667	-0.024	0.007	0.645	17	17	12	8					0.107	0.079	0.049	Light	Light	Moderate
B	SLZ1	431	0	150	324.5	0.662	-0.029	0.004	0.640	16	16	13	8	-0.005	-0.005	-0.003	-1	0.102	0.081	0.049	Light	Light	Moderate
A	SLZ1	432	575	150	324.5	0.665	-0.03	0.011	0.644	17	17	13	8					0.110	0.082	0.050	Light	Light	Moderate
B	SLZ1	432	575	150	324.5	0.664	-0.035	0.006	0.643	18	18	12	8	-0.001	-0.005	-0.005	1	0.114	0.078	0.050	Light	Light	Moderate
A	SLZ1	433	1150	150	324.5	0.668	-0.034	0.011	0.646	16	16	12	8					0.103	0.080	0.049	Light	Light	Moderate
B	SLZ1	433	1150	150	324.5	0.655	-0.036	0.009	0.635	18	18	13	8	-0.013	-0.002	-0.002	2	0.114	0.083	0.054	Light	Light	Moderate
A	SLZ1	441	0	250	324.5	0.709	-0.035	0.007	0.685	16	16	12	8					0.109	0.081	0.058	Light	Light	Moderate
B	SLZ1	441	0	250	324.5	0.705	-0.031	0	0.680	15	15	11	8	-0.004	0.004	-0.007	-1	0.105	0.078	0.055	Light	Light	Moderate
A	SLZ1	442	575	250	324.5	0.693	-0.032	0.005	0.669	15	15	11	8					0.101	0.074	0.057	Light	Light	Moderate
B	SLZ1	442	575	250	324.5	0.693	-0.037	0.004	0.671	16	16	12	9	0	-0.005	-0.001	1	0.109	0.083	0.058	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	443	1150	250	324.5	0.704	-0.032	0.01	0.680	16	16	11	8					0.106	0.078	0.056	Light	Light	Moderate
B	SLZ1	443	1150	250	324.5	0.707	-0.033	0.007	0.683	17	17	12	8	0.003	-0.001	-0.003	1	0.113	0.085	0.057	Light	Light	Moderate
A	SLZ2	501	0	25	324.5	0.512	-0.021	-0.001	0.501	19	20	14	8					0.099	0.072	0.042	Light	Light	Light
B	SLZ2	501	0	25	324.5	0.525	-0.021	-0.001	0.513	19	19	14	8	0.013	0	0	0	0.098	0.074	0.042	Light	Light	Light
A	SLZ2	502	575	25	324.5	0.536	-0.026	0.002	0.522	18	18	13	8					0.093	0.069	0.042	Light	Light	Light
B	SLZ2	502	575	25	324.5	0.541	-0.021	0.002	0.525	17	17	12	8	0.005	0.005	0	-1	0.089	0.064	0.041	Light	Light	Light
A	SLZ2	503	1150	25	324.5	0.553	-0.026	0.008	0.539	18	18	14	7					0.099	0.078	0.039	Light	Light	Light
B	SLZ2	503	1150	25	324.5	0.539	-0.024	0.009	0.526	18	18	15	8	-0.014	0.002	0.001	0	0.094	0.077	0.040	Light	Light	Light
A	SLZ2	511	0	50	324.5	0.584	-0.025	0.008	0.567	19	19	13	7					0.106	0.075	0.041	Light	Light	Light
B	SLZ2	511	0	50	324.5	0.589	-0.028	0.007	0.572	17	17	13	8	0.005	-0.003	-0.001	-2	0.099	0.071	0.044	Light	Light	Moderate
A	SLZ2	512	575	50	324.5	0.586	-0.022	0.003	0.569	18	18	14	8					0.102	0.078	0.043	Light	Light	Light
B	SLZ2	512	575	50	324.5	0.595	-0.034	0.008	0.577	18	18	13	7	0.009	-0.012	0.005	0	0.102	0.072	0.043	Light	Light	Light
A	SLZ2	513	1150	50	324.5	0.587	-0.023	0.014	0.570	18	18	13	7					0.102	0.072	0.039	Light	Light	Light
B	SLZ2	513	1150	50	324.5	0.596	-0.031	0.012	0.579	17	17	13	7	0.009	-0.008	-0.002	-1	0.100	0.075	0.043	Light	Light	Light
A	SLZ2	521	0	100	324.5	0.642	-0.032	0.01	0.623	16	16	13	8					0.103	0.082	0.047	Light	Light	Moderate
B	SLZ2	521	0	100	324.5	0.652	-0.03	0.008	0.631	18	18	13	7	0.01	0.002	-0.002	2	0.112	0.080	0.047	Light	Light	Moderate
A	SLZ2	522	575	100	324.5	0.65	-0.027	0.01	0.629	16	16	13	7					0.103	0.082	0.045	Light	Light	Moderate
B	SLZ2	522	575	100	324.5	0.656	-0.028	0.009	0.635	16	16	12	7	0.006	-0.001	-0.001	0	0.103	0.077	0.047	Light	Light	Moderate
A	SLZ2	523	1150	100	324.5	0.648	-0.024	0.015	0.627	18	18	13	7					0.110	0.078	0.044	Light	Light	Moderate
B	SLZ2	523	1150	100	324.5	0.645	-0.032	0.015	0.624	16	16	12	8	-0.003	-0.008	0	-2	0.102	0.075	0.048	Light	Light	Moderate
A	SLZ2	531	0	150	324.5	0.675	-0.031	0.01	0.652	16	16	12	8					0.103	0.079	0.050	Light	Light	Moderate
B	SLZ2	531	0	150	324.5	0.675	-0.032	0.007	0.654	15	15	13	8	0	-0.001	-0.003	-1	0.100	0.087	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	324.5	0.675	-0.028	0.011	0.653	17	17	13	8					0.109	0.084	0.050	Light	Light	Moderate
B	SLZ2	532	575	150	324.5	0.669	-0.033	0.007	0.648	16	16	13	8	-0.006	-0.005	-0.004	-1	0.101	0.083	0.050	Light	Light	Moderate
A	SLZ2	533	1150	150	324.5	0.671	-0.031	0.016	0.649	17	17	13	8					0.109	0.082	0.049	Light	Light	Moderate
B	SLZ2	533	1150	150	324.5	0.677	-0.025	0.012	0.653	16	16	11	7	0.006	0.006	-0.004	-1	0.104	0.075	0.049	Light	Light	Moderate
A	SLZ2	541	0	250	324.5	0.713	-0.038	0.007	0.689	16	16	12	8					0.108	0.082	0.058	Light	Light	Moderate
B	SLZ2	541	0	250	324.5	0.711	-0.034	0.005	0.686	16	16	12	8	-0.002	0.004	-0.002	0	0.107	0.082	0.055	Light	Light	Moderate
A	SLZ2	542	575	250	324.5	0.718	-0.033	0.007	0.693	14	14	12	8					0.099	0.082	0.056	Light	Light	Moderate
B	SLZ2	542	575	250	324.5	0.717	-0.031	0.008	0.692	15	15	12	8	-0.001	0.002	0.001	1	0.105	0.084	0.058	Light	Light	Moderate
A	SLZ2	543	1150	250	324.5	0.709	-0.03	0.014	0.684	15	15	12	8					0.104	0.081	0.056	Light	Light	Moderate
B	SLZ2	543	1150	250	324.5	0.717	-0.032	0.007	0.692	15	15	12	8	0.008	-0.002	-0.007	0	0.105	0.082	0.056	Light	Light	Moderate
A	Runway	101	0	25	347	0.568	-0.025	0.005	0.553	18	18	15	8					0.097	0.082	0.042	Light	Light	Light
B	Runway	101	0	25	347	0.563	-0.028	0.005	0.549	18	18	15	8	-0.005	-0.003	0	0	0.096	0.081	0.043	Light	Light	Light
A	Runway	102	695	25	347	0.556	-0.021	0.011	0.542	18	18	15	8					0.096	0.081	0.041	Light	Light	Light
B	Runway	102	695	25	347	0.56	-0.013	0.012	0.545	18	18	15	7	0.004	0.008	0.001	0	0.101	0.081	0.040	Light	Light	Light
A	Runway	103	1389	25	347	0.547	-0.024	0.004	0.533	19	19	14	8					0.100	0.077	0.041	Light	Light	Light
B	Runway	103	1389	25	347	0.542	-0.026	0.005	0.528	19	19	14	8	-0.005	-0.002	0.001	0	0.099	0.075	0.041	Light	Light	Light
A	Runway	104	2064	25	347	0.528	-0.024	-0.002	0.516	19	19	15	8					0.097	0.077	0.040	Light	Light	Light
B	Runway	104	2064	25	347	0.523	-0.027	0.003	0.512	19	19	15	8	-0.005	-0.003	0.005	0	0.098	0.079	0.040	Light	Light	Light
A	Runway	105	2739	25	347	0.531	-0.027	0.002	0.519	18	18	15	8					0.095	0.077	0.040	Light	Light	Light
B	Runway	105	2739	25	347	0.529	-0.022	0.002	0.516	18	19	13	8	-0.002	0.005	0	0	0.096	0.069	0.041	Light	Light	Light
A	Runway	106	3300	25	347	0.54	-0.013	-0.003	0.525	18	18	13	7					0.094	0.068	0.039	Light	Light	Light
B	Runway	106	3300	25	347	0.533	-0.013	-0.003	0.519	18	18	14	8	-0.007	0	0	0	0.093	0.072	0.040	Light	Light	Light
A	Runway	107	3875	25	347	0.539	-0.03	0.002	0.525	18	18	13	8					0.093	0.070	0.040	Light	Light	Light
B	Runway	107	3875	25	347	0.543	-0.024	0.004	0.530	19	19	14	8	0.004	0.006	0.002	1	0.099	0.073	0.041	Light	Light	Light
A	Runway	108	4450	25	347	0.54	-0.023	0.004	0.526	19	19	14	8					0.098	0.072	0.040	Light	Light	Light
B	Runway	108	4450	25	347	0.536	-0.012	0.003	0.523	18	18	15	8	-0.004	0.011	-0.001	-1	0.094	0.076	0.042	Light	Light	Light
A	Runway	111	0	50	347	0.606	-0.029	0.01	0.589	18	18	14	7					0.106	0.085	0.043	Light	Light	Light
B	Runway	111	0	50	347	0.599	-0.022	0.011	0.582	17	17	14	8	-0.007	0.007	0.001	-1	0.098	0.082	0.044	Light	Light	Moderate
A	Runway	112	695	50	347	0.592	-0.022	0.015	0.575	18	18	13	7					0.103	0.077	0.043	Light	Light	Light
B	Runway	112	695	50	347	0.601	-0.021	0.016	0.584	18	18	14	7	0.009	0.001	0.001	0	0.107	0.082	0.043	Light	Light	Light
A	Runway	113	1389	50	347	0.599	-0.026	0.012	0.582	17	17	14	7					0.101	0.082	0.041	Light	Light	Light
B	Runway	113	1389	50	347	0.606	-0.026	0.014	0.588	17	17	14	7	0.007	0	0.002	0	0.101	0.081	0.040	Light	Light	Light
A	Runway	114	2064	50	347	0.587	-0.03	0.01	0.571	17	17	14	7					0.097	0.080	0.042	Light	Light	Light
B	Runway	114	2064	50	347	0.581	-0.027	0.011	0.565	18	19	14	7	-0.006	0.003	0.001	1	0.105	0.078	0.041	Light	Light	Light

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification				
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W		
										(% [UVW])															
A	Runway	115	2739	50	347	0.587	-0.028	0.009	0.571	18	18	13	7							0.102	0.076	0.041	Light	Light	Light
B	Runway	115	2739	50	347	0.595	-0.028	0.013	0.578	18	18	14	7	0.008	0	0.004	0			0.106	0.079	0.042	Light	Light	Light
A	Runway	116	3300	50	347	0.6	-0.011	0.006	0.582	17	17	13	7							0.097	0.076	0.042	Light	Light	Light
B	Runway	116	3300	50	347	0.603	-0.013	0.006	0.584	18	18	14	7	0.003	-0.002	0	1			0.105	0.080	0.040	Light	Light	Light
A	Runway	117	3875	50	347	0.609	-0.03	0.01	0.589	18	18	12	7							0.104	0.074	0.041	Light	Light	Light
B	Runway	117	3875	50	347	0.602	-0.027	0.012	0.584	17	17	13	7	-0.007	0.003	0.002	-1			0.099	0.078	0.041	Light	Light	Light
A	Runway	118	4450	50	347	0.611	-0.033	0.01	0.593	17	17	14	7							0.102	0.080	0.041	Light	Light	Light
B	Runway	118	4450	50	347	0.604	-0.022	0.011	0.586	17	17	14	7	-0.007	0.011	0.001	0			0.099	0.079	0.041	Light	Light	Light
A	Runway	121	0	100	347	0.628	-0.027	0.013	0.609	17	17	14	8							0.104	0.085	0.047	Light	Light	Moderate
B	Runway	121	0	100	347	0.642	-0.027	0.014	0.623	16	17	13	8	0.014	0	0.001	-1			0.103	0.083	0.051	Light	Light	Moderate
A	Runway	122	695	100	347	0.642	-0.022	0.016	0.623	17	17	14	7							0.104	0.085	0.046	Light	Light	Moderate
B	Runway	122	695	100	347	0.643	-0.022	0.018	0.623	16	16	13	7	0.001	0	0.002	-1			0.101	0.082	0.046	Light	Light	Moderate
A	Runway	123	1389	100	347	0.641	-0.024	0.017	0.621	16	16	13	8							0.101	0.080	0.047	Light	Light	Moderate
B	Runway	123	1389	100	347	0.643	-0.023	0.015	0.623	17	17	13	7	0.002	0.001	-0.002	1			0.104	0.082	0.046	Light	Light	Moderate
A	Runway	124	2064	100	347	0.64	-0.026	0.015	0.619	16	16	13	7							0.099	0.079	0.045	Light	Light	Moderate
B	Runway	124	2064	100	347	0.637	-0.029	0.018	0.617	17	17	13	8	-0.003	-0.003	0.003	1			0.105	0.083	0.046	Light	Light	Moderate
A	Runway	125	2739	100	347	0.653	-0.031	0.016	0.632	17	17	13	7							0.106	0.082	0.046	Light	Light	Moderate
B	Runway	125	2739	100	347	0.646	-0.033	0.014	0.626	17	17	13	7	-0.007	-0.002	-0.002	0			0.104	0.083	0.046	Light	Light	Moderate
A	Runway	126	3300	100	347	0.651	-0.02	0.011	0.630	16	16	13	7							0.099	0.083	0.045	Light	Light	Moderate
B	Runway	126	3300	100	347	0.644	-0.017	0.012	0.622	16	16	12	7	-0.007	0.003	0.001	0			0.101	0.073	0.045	Light	Light	Moderate
A	Runway	127	3875	100	347	0.662	-0.027	0.011	0.639	15	15	12	7							0.098	0.074	0.044	Light	Light	Moderate
B	Runway	127	3875	100	347	0.653	-0.028	0.013	0.632	16	16	13	7	-0.009	-0.001	0.002	1			0.103	0.081	0.047	Light	Light	Moderate
A	Runway	128	4450	100	347	0.659	-0.038	0.015	0.638	16	15	12	7							0.099	0.078	0.044	Light	Light	Moderate
B	Runway	128	4450	100	347	0.65	-0.03	0.013	0.629	17	17	13	7	-0.009	0.008	-0.002	1			0.109	0.079	0.045	Light	Light	Moderate
A	Runway	131	0	150	347	0.662	-0.023	0.01	0.641	16	16	13	8							0.103	0.082	0.053	Light	Light	Moderate
B	Runway	131	0	150	347	0.664	-0.02	0.013	0.643	16	16	13	8	0.002	0.003	0.003	0			0.104	0.086	0.053	Light	Light	Moderate
A	Runway	132	695	150	347	0.658	-0.023	0.013	0.637	16	16	13	8							0.103	0.080	0.052	Light	Light	Moderate
B	Runway	132	695	150	347	0.652	-0.02	0.017	0.632	16	16	13	8	-0.006	0.003	0.004	0			0.100	0.085	0.052	Light	Light	Moderate
A	Runway	133	1389	150	347	0.663	-0.032	0.017	0.642	16	16	13	8							0.103	0.082	0.052	Light	Light	Moderate
B	Runway	133	1389	150	347	0.675	-0.026	0.013	0.653	16	16	12	8	0.012	0.006	-0.004	0			0.104	0.081	0.050	Light	Light	Moderate
A	Runway	134	2064	150	347	0.67	-0.028	0.015	0.648	16	16	13	8							0.105	0.084	0.049	Light	Light	Moderate
B	Runway	134	2064	150	347	0.683	-0.029	0.012	0.660	16	16	12	8	0.013	-0.001	-0.003	0			0.106	0.079	0.050	Light	Light	Moderate
A	Runway	135	2739	150	347	0.667	-0.03	0.012	0.646	16	16	13	8							0.103	0.084	0.050	Light	Light	Moderate
B	Runway	135	2739	150	347	0.675	-0.031	0.012	0.653	15	16	12	8	0.008	-0.001	0	-1			0.101	0.079	0.052	Light	Light	Moderate
A	Runway	136	3300	150	347	0.68	-0.022	0.011	0.657	16	16	12	8							0.107	0.082	0.050	Light	Light	Moderate
B	Runway	136	3300	150	347	0.68	-0.024	0.01	0.657	16	16	12	8	0	-0.002	-0.001	0			0.103	0.081	0.050	Light	Light	Moderate
A	Runway	137	3875	150	347	0.68	-0.024	0.005	0.657	16	16	11	8							0.104	0.075	0.051	Light	Light	Moderate
B	Runway	137	3875	150	347	0.685	-0.034	0.011	0.662	15	15	12	7	0.005	-0.01	0.006	-1			0.098	0.081	0.048	Light	Light	Moderate
A	Runway	138	4450	150	347	0.69	-0.035	0.013	0.666	15	15	12	7							0.102	0.077	0.048	Light	Light	Moderate
B	Runway	138	4450	150	347	0.686	-0.034	0.014	0.663	15	15	12	7	-0.004	0.001	0.001	0			0.098	0.080	0.048	Light	Light	Moderate
A	Runway	141	0	250	347	0.696	-0.03	0.012	0.674	17	17	13	9							0.113	0.087	0.059	Light	Light	Moderate
B	Runway	141	0	250	347	0.694	-0.025	0.012	0.671	16	16	12	9	-0.002	0.005	0	-1			0.106	0.079	0.060	Light	Light	Moderate
A	Runway	142	695	250	347	0.694	-0.026	0.01	0.672	16	16	13	9							0.108	0.086	0.059	Light	Light	Moderate
B	Runway	142	695	250	347	0.697	-0.022	0.017	0.674	16	16	13	9	0.003	0.004	0.007	0			0.106	0.085	0.058	Light	Light	Moderate
A	Runway	143	1389	250	347	0.698	-0.033	0.012	0.675	15	15	12	9							0.102	0.083	0.058	Light	Light	Moderate
B	Runway	143	1389	250	347	0.695	-0.025	0.014	0.672	16	16	12	9	-0.003	0.008	0.002	1			0.105	0.081	0.057	Light	Light	Moderate
A	Runway	144	2064	250	347	0.705	-0.034	0.01	0.681	15	15	12	8							0.102	0.084	0.057	Light	Light	Moderate
B	Runway	144	2064	250	347	0.706	-0.033	0.01	0.681	16	16	12	8	0.001	0.001	0	1			0.112	0.079	0.055	Light	Light	Moderate
A	Runway	145	2739	250	347	0.72	-0.037	0.007	0.695	14	14	12	9							0.100	0.084	0.059	Light	Light	Moderate
B	Runway	145	2739	250	347	0.7	-0.032	0.015	0.677	16	16	12	8	-0.02	0.005	0.008	2			0.107	0.079	0.056	Light	Light	Moderate
A	Runway	146	3300	250	347	0.723	-0.028	0.008	0.697	15	15	12	8							0.103	0.081	0.055	Light	Light	Moderate
B	Runway	146	3300	250	347	0.717	-0.033	0.009	0.692	15	15	12	8	-0.006	-0.005	0.001	0			0.107	0.082	0.058	Light	Light	Moderate
A	Runway	147	3875	250	347	0.704	-0.034	0.011	0.681	15	15	12	9							0.100	0.081	0.059	Light	Light	Moderate
B	Runway	147	3875	250	347	0.71	-0.03	0.008	0.685	16	16	11	8	0.006	0.004	-0.003	1			0.109	0.079	0.055	Light	Light	Moderate
A	Runway	148	4450	250	347	0.713	-0.038	0.014	0.689	15	15	12	8							0.105	0.083	0.056	Light	Light	Moderate
B	Runway	148	4450	250	347	0.726	-0.032	0.008	0.699	15	15	11	8	0.013	0.006	-0.006	0			0.105	0.075	0.056	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	201	0	25	347	0.546	-0.019	0.005	0.532	19	19	15	8					0.099	0.078	0.041	Light	Light	Light
B	HPLZ1	201	0	25	347	0.538	-0.008	0.004	0.524	19	19	14	8	-0.008	0.011	-0.001	0	0.101	0.072	0.041	Light	Light	Light
A	HPLZ1	202	675	25	347	0.539	-0.027	0.007	0.526	18	18	15	8					0.094	0.077	0.041	Light	Light	Light
B	HPLZ1	202	675	25	347	0.532	-0.027	0.009	0.518	17	17	13	8	-0.007	0	0.002	-1	0.089	0.069	0.041	Light	Light	Light
A	HPLZ1	203	1350	25	347	0.503	-0.017	-0.001	0.492	19	19	15	8					0.094	0.075	0.040	Light	Light	Light
B	HPLZ1	203	1350	25	347	0.502	-0.019	0	0.491	18	19	14	8	-0.001	-0.002	0.001	-1	0.092	0.071	0.041	Light	Light	Light
A	HPLZ1	211	0	50	347	0.599	-0.021	0.008	0.582	17	17	14	7					0.100	0.079	0.042	Light	Light	Light
B	HPLZ1	211	0	50	347	0.588	-0.012	0.008	0.572	17	17	14	7	-0.011	0.009	0	0	0.100	0.082	0.042	Light	Light	Light
A	HPLZ1	212	675	50	347	0.609	-0.029	0.014	0.592	17	17	14	7					0.103	0.084	0.042	Light	Light	Light
B	HPLZ1	212	675	50	347	0.597	-0.024	0.013	0.579	18	18	14	7	-0.012	0.005	-0.001	1	0.104	0.080	0.040	Light	Light	Light
A	HPLZ1	213	1350	50	347	0.584	-0.024	0.013	0.568	17	17	13	7					0.095	0.076	0.041	Light	Light	Light
B	HPLZ1	213	1350	50	347	0.578	-0.025	0.013	0.563	17	17	14	7	-0.006	-0.001	0	0	0.096	0.079	0.040	Light	Light	Light
A	HPLZ1	221	0	100	347	0.636	-0.027	0.015	0.617	17	17	13	7					0.105	0.080	0.046	Light	Light	Moderate
B	HPLZ1	221	0	100	347	0.653	-0.02	0.011	0.633	17	17	13	7	0.017	0.007	-0.004	0	0.107	0.085	0.047	Light	Light	Moderate
A	HPLZ1	222	675	100	347	0.646	-0.024	0.016	0.626	16	16	13	7					0.098	0.082	0.047	Light	Light	Moderate
B	HPLZ1	222	675	100	347	0.656	-0.025	0.015	0.635	16	16	12	7	0.01	-0.001	-0.001	0	0.104	0.079	0.044	Light	Light	Moderate
A	HPLZ1	223	1350	100	347	0.642	-0.022	0.018	0.622	16	16	13	7					0.100	0.079	0.046	Light	Light	Moderate
B	HPLZ1	223	1350	100	347	0.632	-0.023	0.02	0.612	17	17	13	7	-0.01	-0.001	0.002	1	0.102	0.081	0.044	Light	Light	Moderate
A	HPLZ1	231	0	150	347	0.652	-0.023	0.013	0.630	17	17	12	8					0.105	0.078	0.050	Light	Light	Moderate
B	HPLZ1	231	0	150	347	0.681	-0.019	0.008	0.658	17	17	13	8	0.029	0.004	-0.005	0	0.110	0.085	0.051	Light	Light	Moderate
A	HPLZ1	232	675	150	347	0.68	-0.031	0.014	0.659	16	16	14	8					0.106	0.091	0.053	Light	Light	Moderate
B	HPLZ1	232	675	150	347	0.668	-0.038	0.02	0.647	16	16	12	8	-0.012	-0.007	0.006	0	0.102	0.080	0.049	Light	Light	Moderate
A	HPLZ1	233	1350	150	347	0.669	-0.027	0.017	0.647	16	16	13	8					0.103	0.082	0.050	Light	Light	Moderate
B	HPLZ1	233	1350	150	347	0.67	-0.027	0.021	0.648	16	16	13	8	0.001	0	0.004	0	0.104	0.084	0.049	Light	Light	Moderate
A	HPLZ1	241	0	250	347	0.7	-0.021	0.008	0.676	15	15	13	8					0.105	0.086	0.057	Light	Light	Moderate
B	HPLZ1	241	0	250	347	0.707	-0.023	0.01	0.684	16	16	13	9	0.007	-0.002	0.002	1	0.106	0.086	0.060	Light	Light	Moderate
A	HPLZ1	242	675	250	347	0.71	-0.034	0.009	0.686	15	15	12	8					0.100	0.082	0.057	Light	Light	Moderate
B	HPLZ1	242	675	250	347	0.692	-0.034	0.016	0.669	15	15	12	9	-0.018	0	0.007	0	0.101	0.078	0.057	Light	Light	Moderate
A	HPLZ1	243	1350	250	347	0.71	-0.033	0.014	0.687	15	15	13	8					0.101	0.088	0.056	Light	Light	Moderate
B	HPLZ1	243	1350	250	347	0.7	-0.026	0.017	0.677	15	15	13	8	-0.01	0.007	0.003	0	0.101	0.086	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	347	0.545	-0.026	0.008	0.532	19	19	15	8					0.099	0.079	0.042	Light	Light	Light
B	HPLZ2	301	0	25	347	0.53	-0.007	-0.005	0.517	18	18	14	8	-0.015	0.019	-0.013	-1	0.093	0.071	0.042	Light	Light	Light
A	HPLZ2	302	675	25	347	0.555	-0.019	0.006	0.540	18	18	14	7					0.097	0.075	0.040	Light	Light	Light
B	HPLZ2	302	675	25	347	0.551	-0.011	0.009	0.536	17	17	14	8	-0.004	0.008	0.003	-1	0.093	0.076	0.041	Light	Light	Light
A	HPLZ2	303	1350	25	347	0.55	-0.02	-0.002	0.536	18	18	15	8					0.094	0.079	0.040	Light	Light	Light
B	HPLZ2	303	1350	25	347	0.541	-0.018	0.001	0.526	18	18	14	8	-0.009	0.002	0.003	0	0.093	0.071	0.041	Light	Light	Light
A	HPLZ2	311	0	50	347	0.59	-0.021	0.011	0.574	19	19	14	7					0.108	0.083	0.041	Light	Light	Light
B	HPLZ2	311	0	50	347	0.587	-0.012	0	0.571	18	18	15	8	-0.003	0.009	-0.011	-1	0.104	0.083	0.044	Light	Light	Moderate
A	HPLZ2	312	675	50	347	0.592	-0.028	0.015	0.575	18	18	14	7					0.103	0.080	0.041	Light	Light	Light
B	HPLZ2	312	675	50	347	0.582	-0.023	0.013	0.566	18	18	13	7	-0.01	0.005	-0.002	0	0.101	0.076	0.042	Light	Light	Light
A	HPLZ2	313	1350	50	347	0.597	-0.026	0.009	0.580	17	17	13	7					0.100	0.077	0.041	Light	Light	Light
B	HPLZ2	313	1350	50	347	0.6	-0.015	0.008	0.582	18	18	13	7	0.003	0.011	-0.001	1	0.103	0.076	0.041	Light	Light	Light
A	HPLZ2	321	0	100	347	0.626	-0.018	0.014	0.606	18	18	13	8					0.108	0.077	0.047	Light	Light	Moderate
B	HPLZ2	321	0	100	347	0.645	-0.032	0.007	0.625	17	17	14	8	0.019	-0.014	-0.007	-1	0.109	0.086	0.047	Light	Light	Moderate
A	HPLZ2	322	675	100	347	0.634	-0.027	0.016	0.615	17	17	13	8					0.105	0.081	0.046	Light	Light	Moderate
B	HPLZ2	322	675	100	347	0.64	-0.02	0.015	0.620	17	17	13	7	0.006	0.007	-0.001	0	0.103	0.080	0.046	Light	Light	Moderate
A	HPLZ2	323	1350	100	347	0.654	-0.028	0.012	0.633	16	16	13	7					0.101	0.080	0.046	Light	Light	Moderate
B	HPLZ2	323	1350	100	347	0.66	-0.022	0.011	0.637	17	17	12	7	0.006	0.006	-0.001	1	0.106	0.077	0.045	Light	Light	Moderate
A	HPLZ2	331	0	150	347	0.656	-0.022	0.016	0.635	17	17	13	8					0.106	0.082	0.053	Light	Light	Moderate
B	HPLZ2	331	0	150	347	0.67	-0.025	0.006	0.648	17	17	13	8	0.014	-0.003	-0.01	0	0.109	0.084	0.053	Light	Light	Moderate
A	HPLZ2	332	675	150	347	0.675	-0.027	0.015	0.653	17	17	13	7					0.110	0.084	0.049	Light	Light	Moderate
B	HPLZ2	332	675	150	347	0.673	-0.025	0.016	0.651	17	17	13	7	-0.002	0.002	0.001	0	0.108	0.086	0.048	Light	Light	Moderate
A	HPLZ2	333	1350	150	347	0.68	-0.026	0.015	0.657	16	16	13	7					0.106	0.083	0.049	Light	Light	Moderate
B	HPLZ2	333	1350	150	347	0.678	-0.022	0.01	0.655	17	17	12	8	-0.002	0.004	-0.005	1	0.108	0.080	0.049	Light	Light	Moderate
A	HPLZ2	341	0	250	347	0.704	-0.032	0.014	0.681	17	17	13	8					0.115	0.089	0.058	Light	Light	Moderate
B	HPLZ2	341	0	250	347	0.696	-0.032	0.007	0.673	16	16	12	8	-0.008	0	-0.007	-1	0.107	0.082	0.056	Light	Light	Moderate

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Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	342	675	250	347	0.713	-0.03	0.011	0.689	15	15	13	8					0.103	0.087	0.057	Light	Light	Moderate
B	HPLZ2	342	675	250	347	0.705	-0.03	0.011	0.681	15	15	12	9	-0.008	0	0	0	0.105	0.085	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	347	0.709	-0.027	0.012	0.686	16	16	13	9					0.107	0.086	0.060	Light	Light	Moderate
B	HPLZ2	343	1350	250	347	0.714	-0.033	0.016	0.691	16	15	13	8	0.005	-0.006	0.004	0	0.107	0.089	0.057	Light	Light	Moderate
A	SLZ1	401	0	25	347	0.451	-0.015	-0.015	0.447	22	23	17	11					0.101	0.074	0.051	Light	Light	Moderate
B	SLZ1	401	0	25	347	0.445	-0.014	-0.015	0.442	21	22	17	11	-0.006	0.001	0	-1	0.099	0.077	0.051	Light	Light	Moderate
A	SLZ1	402	575	25	347	0.535	-0.03	0.004	0.522	18	18	13	8					0.093	0.070	0.042	Light	Light	Light
B	SLZ1	402	575	25	347	0.53	-0.025	0.004	0.517	18	18	13	8	-0.005	0.005	0	0	0.095	0.070	0.041	Light	Light	Light
A	SLZ1	403	1150	25	347	0.543	-0.022	0.005	0.529	18	18	13	8					0.095	0.071	0.040	Light	Light	Light
B	SLZ1	403	1150	25	347	0.547	-0.022	0.006	0.532	18	18	13	8	0.004	0	0.001	0	0.094	0.071	0.040	Light	Light	Light
A	SLZ1	411	0	50	347	0.583	-0.016	-0.012	0.566	18	19	14	7					0.105	0.081	0.040	Light	Light	Light
B	SLZ1	411	0	50	347	0.583	-0.016	-0.012	0.567	18	18	13	7	0	0	0	0	0.101	0.076	0.042	Light	Light	Light
A	SLZ1	412	575	50	347	0.589	-0.021	0.006	0.572	18	18	13	7					0.105	0.076	0.042	Light	Light	Light
B	SLZ1	412	575	50	347	0.581	-0.025	0.007	0.565	19	19	14	7	-0.008	-0.004	0.001	1	0.106	0.080	0.042	Light	Light	Light
A	SLZ1	413	1150	50	347	0.604	-0.024	0.011	0.585	17	17	12	7					0.099	0.072	0.044	Light	Light	Moderate
B	SLZ1	413	1150	50	347	0.609	-0.024	0.011	0.590	18	17	13	7	0.005	0	0	1	0.103	0.078	0.040	Light	Light	Light
A	SLZ1	421	0	100	347	0.653	-0.02	0.003	0.631	16	16	12	7					0.099	0.078	0.045	Light	Light	Moderate
B	SLZ1	421	0	100	347	0.648	-0.024	0.002	0.627	15	15	13	7	-0.005	-0.004	-0.001	-1	0.096	0.082	0.045	Light	Light	Moderate
A	SLZ1	422	575	100	347	0.662	-0.024	0.008	0.640	16	16	13	7					0.102	0.081	0.045	Light	Light	Moderate
B	SLZ1	422	575	100	347	0.652	-0.026	0.011	0.631	16	16	13	7	-0.01	-0.002	0.003	0	0.101	0.080	0.043	Light	Light	Light
A	SLZ1	423	1150	100	347	0.65	-0.022	0.013	0.629	16	16	13	7					0.099	0.081	0.046	Light	Light	Moderate
B	SLZ1	423	1150	100	347	0.665	-0.03	0.015	0.643	16	16	12	7	0.015	-0.008	0.002	0	0.104	0.078	0.044	Light	Light	Moderate
A	SLZ1	431	0	150	347	0.68	-0.031	0.008	0.657	16	15	12	7					0.102	0.081	0.049	Light	Light	Moderate
B	SLZ1	431	0	150	347	0.678	-0.024	0.006	0.655	16	16	12	8	-0.002	0.007	-0.002	0	0.102	0.080	0.051	Light	Light	Moderate
A	SLZ1	432	575	150	347	0.688	-0.024	0.01	0.664	16	16	12	8					0.107	0.079	0.051	Light	Light	Moderate
B	SLZ1	432	575	150	347	0.683	-0.028	0.01	0.660	15	15	12	7	-0.005	-0.004	0	-1	0.101	0.080	0.049	Light	Light	Moderate
A	SLZ1	433	1150	150	347	0.687	-0.03	0.014	0.664	16	16	13	7					0.108	0.084	0.049	Light	Light	Moderate
B	SLZ1	433	1150	150	347	0.699	-0.024	0.013	0.675	15	15	12	7	0.012	0.006	-0.001	-1	0.103	0.082	0.049	Light	Light	Moderate
A	SLZ1	441	0	250	347	0.724	-0.032	0.004	0.699	15	15	12	8					0.108	0.083	0.059	Light	Light	Moderate
B	SLZ1	441	0	250	347	0.715	-0.034	0.008	0.691	14	14	13	8	-0.009	-0.002	0.004	-1	0.098	0.089	0.056	Light	Light	Moderate
A	SLZ1	442	575	250	347	0.719	-0.026	0.009	0.694	15	15	11	8					0.104	0.078	0.056	Light	Light	Moderate
B	SLZ1	442	575	250	347	0.72	-0.03	0.012	0.695	15	15	12	8	0.001	-0.004	0.003	0	0.105	0.084	0.057	Light	Light	Moderate
A	SLZ1	443	1150	250	347	0.729	-0.037	0.01	0.704	15	15	12	8					0.105	0.084	0.056	Light	Light	Moderate
B	SLZ1	443	1150	250	347	0.734	-0.033	0.01	0.708	14	14	11	8	0.005	0.004	0	-1	0.099	0.080	0.056	Light	Light	Moderate
A	SLZ2	501	0	25	347	0.542	-0.034	0.002	0.529	18	18	14	8					0.095	0.077	0.040	Light	Light	Light
B	SLZ2	501	0	25	347	0.537	-0.026	0.003	0.523	18	18	13	8	-0.005	0.008	0.001	0	0.094	0.068	0.040	Light	Light	Light
A	SLZ2	502	575	25	347	0.554	-0.018	-0.001	0.539	18	18	14	8					0.097	0.073	0.041	Light	Light	Light
B	SLZ2	502	575	25	347	0.556	-0.02	0.001	0.541	18	18	13	8	0.002	-0.002	0.002	0	0.095	0.072	0.041	Light	Light	Light
A	SLZ2	503	1150	25	347	0.565	-0.023	0.004	0.549	18	18	14	7					0.098	0.076	0.037	Light	Light	Light
B	SLZ2	503	1150	25	347	0.557	-0.018	0.005	0.541	17	17	13	7	-0.008	0.005	0.001	-1	0.092	0.071	0.038	Light	Light	Light
A	SLZ2	511	0	50	347	0.608	-0.032	0.008	0.590	16	16	13	7					0.096	0.078	0.041	Light	Light	Light
B	SLZ2	511	0	50	347	0.603	-0.028	0.01	0.585	17	17	13	7	-0.005	0.004	0.002	1	0.100	0.074	0.041	Light	Light	Light
A	SLZ2	512	575	50	347	0.616	-0.028	0.01	0.597	17	17	13	7					0.099	0.078	0.040	Light	Light	Light
B	SLZ2	512	575	50	347	0.617	-0.025	0.009	0.598	17	17	13	7	0.001	0.003	-0.001	0	0.101	0.075	0.041	Light	Light	Light
A	SLZ2	513	1150	50	347	0.607	-0.02	0.014	0.588	16	16	13	7					0.096	0.076	0.040	Light	Light	Light
B	SLZ2	513	1150	50	347	0.62	-0.018	0.012	0.600	16	16	13	7	0.013	0.002	-0.002	0	0.098	0.076	0.039	Light	Light	Light
A	SLZ2	521	0	100	347	0.648	-0.031	0.01	0.628	16	16	13	8					0.101	0.081	0.048	Light	Light	Moderate
B	SLZ2	521	0	100	347	0.654	-0.031	0.01	0.632	16	16	12	7	0.006	0	0	0	0.100	0.076	0.046	Light	Light	Moderate
A	SLZ2	522	575	100	347	0.649	-0.032	0.012	0.628	17	17	12	7					0.106	0.076	0.044	Light	Light	Moderate
B	SLZ2	522	575	100	347	0.658	-0.025	0.011	0.636	16	16	13	7	0.009	0.007	-0.001	-1	0.099	0.080	0.045	Light	Light	Moderate
A	SLZ2	523	1150	100	347	0.664	-0.034	0.016	0.642	16	16	13	7					0.100	0.081	0.046	Light	Light	Moderate
B	SLZ2	523	1150	100	347	0.671	-0.031	0.015	0.648	16	16	12	7	0.007	0.003	-0.001	0	0.103	0.077	0.045	Light	Light	Moderate
A	SLZ2	531	0	150	347	0.672	-0.033	0.013	0.651	16	16	13	7					0.105	0.085	0.049	Light	Light	Moderate
B	SLZ2	531	0	150	347	0.67	-0.023	0.015	0.648	16	16	12	8	-0.002	0.01	0.002	0	0.103	0.079	0.049	Light	Light	Moderate
A	SLZ2	532	575	150	347	0.673	-0.027	0.014	0.650	15	15	12	8					0.097	0.075	0.049	Light	Light	Moderate
B	SLZ2	532	575	150	347	0.687	-0.028	0.015	0.664	16	16	13	7	0.014	-0.001	0.001	1	0.107	0.084	0.050	Light	Light	Moderate

Table B1: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & B

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification																			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W																	
										(% UVW)																														
A	SLZ2	533	1150	150	347	0.704	-0.03	0.012	0.680	15	15	12	8																											
B	SLZ2	533	1150	150	347	0.698	-0.029	0.012	0.674	15	15	12	7	-0.006	0.001	0	0	0.101	0.081	0.048	Light	Light	Moderate																	
A	SLZ2	541	0	250	347	0.715	-0.029	0.011	0.691	16	16	12	8					0.109	0.084	0.058	Light	Light	Moderate																	
B	SLZ2	541	0	250	347	0.719	-0.029	0.009	0.694	14	14	11	8	0.004	0	-0.002	-2	0.100	0.078	0.056	Light	Light	Moderate																	
A	SLZ2	542	575	250	347	0.718	-0.027	0.015	0.694	16	16	12	8					0.109	0.084	0.059	Light	Light	Moderate																	
B	SLZ2	542	575	250	347	0.716	-0.03	0.011	0.692	15	15	12	8	-0.002	-0.003	-0.004	-1	0.101	0.085	0.057	Light	Light	Moderate																	
A	SLZ2	543	1150	250	347	0.725	-0.028	0.013	0.699	14	14	11	8					0.100	0.079	0.056	Light	Light	Moderate																	
B	SLZ2	543	1150	250	347	0.726	-0.028	0.014	0.700	14	14	12	8	0.001	0	0.001	0	0.099	0.083	0.055	Light	Light	Moderate																	

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])													
A	Runway	101	0	25	32	0.527	-0.01	-0.011	0.532	18	18	14	8					0.097	0.072	0.043	Light	Light	Light
C	Runway	101	0	25	32	0.507	-0.018	-0.012	0.515	19	19	15	9	-0.02	-0.008	-0.001	1	0.100	0.077	0.044	Light	Light	Moderate
A	Runway	102	695	25	32	0.529	-0.006	-0.003	0.533	17	17	13	8					0.093	0.070	0.041	Light	Light	Light
C	Runway	102	695	25	32	0.483	-0.013	0	0.492	19	19	15	9	-0.046	-0.007	0.003	2	0.094	0.076	0.042	Light	Light	Light
A	Runway	103	1389	25	32	0.531	-0.013	-0.012	0.535	16	16	13	8					0.087	0.067	0.042	Light	Light	Light
C	Runway	103	1389	25	32	0.474	-0.002	-0.007	0.485	20	20	17	9	-0.057	0.011	0.005	4	0.098	0.083	0.042	Light	Light	Light
A	Runway	104	2064	25	32	0.55	-0.016	-0.016	0.553	17	17	13	8					0.095	0.071	0.042	Light	Light	Light
C	Runway	104	2064	25	32	0.511	-0.011	-0.006	0.518	18	18	14	8	-0.039	0.005	0.01	1	0.091	0.074	0.042	Light	Light	Light
A	Runway	105	2739	25	32	0.589	-0.015	-0.009	0.589	16	16	12	7					0.092	0.071	0.039	Light	Light	Light
C	Runway	105	2739	25	32	0.565	-0.009	-0.008	0.568	17	17	13	7	-0.024	0.006	0.001	1	0.099	0.074	0.039	Light	Light	Light
A	Runway	106	3300	25	32	0.495	0.009	-0.003	0.506	21	22	16	11					0.111	0.083	0.055	Light	Light	Moderate
C	Runway	106	3300	25	32	0.471	0.003	-0.002	0.486	22	22	19	11	-0.024	-0.006	0.001	1	0.109	0.092	0.056	Light	Light	Moderate
A	Runway	107	3875	25	32	-0.604	0.004	-0.002	-0.603	16	16	12	7					0.098	0.071	0.039	Light	Light	Light
C	Runway	107	3875	25	32	0.611	0.005	-0.006	0.609	16	16	12	7	0.007	0.001	-0.004	0	0.096	0.071	0.040	Light	Light	Light
A	Runway	108	4450	25	32	0.645	-0.011	-0.003	0.641	15	15	11	6					0.094	0.070	0.039	Light	Light	Light
C	Runway	108	4450	25	32	0.641	0.001	-0.004	0.638	15	15	11	6	-0.004	0.012	-0.001	0	0.096	0.070	0.039	Light	Light	Light
A	Runway	111	0	50	32	0.607	-0.011	-0.001	0.608	18	18	14	7					0.111	0.086	0.045	Light	Light	Moderate
C	Runway	111	0	50	32	0.588	-0.005	0.006	0.591	18	18	14	8	-0.019	0.006	0.007	0	0.109	0.082	0.047	Light	Light	Moderate
A	Runway	112	695	50	32	0.61	-0.009	0.001	0.610	16	16	13	7					0.099	0.079	0.040	Light	Light	Light
C	Runway	112	695	50	32	0.579	-0.012	0.004	0.581	17	18	13	7	-0.031	-0.003	0.003	1	0.102	0.078	0.043	Light	Light	Light
A	Runway	113	1389	50	32	0.605	-0.014	0.002	0.605	16	16	12	7					0.099	0.075	0.041	Light	Light	Light
C	Runway	113	1389	50	32	0.535	-0.01	0	0.541	18	19	15	8	-0.07	0.004	-0.002	2	0.100	0.082	0.046	Light	Light	Moderate
A	Runway	114	2064	50	32	0.62	-0.009	-0.004	0.618	16	16	12	6					0.098	0.074	0.040	Light	Light	Light
C	Runway	114	2064	50	32	0.579	-0.019	-0.001	0.581	18	18	13	8	-0.041	-0.01	0.003	2	0.102	0.075	0.045	Light	Light	Moderate
A	Runway	115	2739	50	32	0.641	-0.016	-0.002	0.638	15	15	12	6					0.094	0.077	0.038	Light	Light	Light
C	Runway	115	2739	50	32	0.61	-0.013	-0.003	0.610	17	17	12	7	-0.031	0.003	-0.001	2	0.104	0.073	0.042	Light	Light	Light
A	Runway	116	3300	50	32	0.57	0.006	-0.015	0.574	19	20	15	9					0.112	0.085	0.050	Light	Light	Moderate
C	Runway	116	3300	50	32	0.533	-0.004	-0.013	0.542	20	21	17	10	-0.037	-0.01	0.002	1	0.113	0.090	0.054	Light	Light	Moderate
A	Runway	117	3875	50	32	0.658	-0.003	0.005	0.653	15	15	11	6					0.099	0.070	0.040	Light	Light	Light
C	Runway	117	3875	50	32	0.648	0.002	0.003	0.645	15	15	11	6	-0.01	0.005	-0.002	0	0.097	0.073	0.040	Light	Light	Light
A	Runway	118	4450	50	32	0.688	-0.01	0	0.682	14	14	11	6					0.094	0.078	0.039	Light	Light	Light
C	Runway	118	4450	50	32	0.69	0.004	0.001	0.684	14	14	11	6	0.002	0.014	0.001	0	0.093	0.077	0.041	Light	Light	Light
A	Runway	121	0	100	32	0.675	-0.017	0.001	0.672	16	16	12	7					0.108	0.082	0.049	Light	Light	Moderate
C	Runway	121	0	100	32	0.64	-0.014	0.003	0.639	18	18	13	7	-0.035	0.003	0.002	2	0.115	0.080	0.047	Light	Light	Moderate
A	Runway	122	695	100	32	0.667	-0.014	0.006	0.663	15	15	12	7					0.099	0.077	0.045	Light	Light	Moderate
C	Runway	122	695	100	32	0.626	-0.012	0.01	0.626	17	17	13	8	-0.041	0.002	0.004	2	0.107	0.079	0.050	Light	Light	Moderate
A	Runway	123	1389	100	32	0.659	-0.018	0.005	0.656	14	14	12	6					0.093	0.077	0.042	Light	Light	Light
C	Runway	123	1389	100	32	0.608	-0.015	0	0.610	19	19	14	8	-0.051	0.003	-0.005	5	0.115	0.088	0.051	Light	Light	Moderate
A	Runway	124	2064	100	32	0.679	-0.019	0.001	0.675	15	15	12	6					0.102	0.079	0.043	Light	Light	Light
C	Runway	124	2064	100	32	0.645	-0.016	0.001	0.643	17	17	12	7	-0.034	0.003	0	2	0.106	0.078	0.048	Light	Light	Moderate
A	Runway	125	2739	100	32	0.696	-0.015	0.003	0.690	13	13	11	6					0.092	0.074	0.044	Light	Light	Moderate
C	Runway	125	2739	100	32	0.649	-0.012	0	0.647	17	17	12	8	-0.047	0.003	-0.003	4	0.109	0.077	0.051	Light	Light	Moderate
A	Runway	126	3300	100	32	0.674	-0.006	-0.003	0.669	15	14	12	6					0.097	0.079	0.042	Light	Light	Light
C	Runway	126	3300	100	32	0.648	-0.015	-0.003	0.647	17	17	14	8	-0.026	-0.009	0	2	0.111	0.090	0.049	Light	Light	Moderate
A	Runway	127	3875	100	32	0.706	0	0.011	0.699	14	14	11	6					0.099	0.078	0.045	Light	Light	Moderate
C	Runway	127	3875	100	32	0.695	0	0.008	0.690	14	14	11	7	-0.011	0	-0.003	0	0.099	0.079	0.048	Light	Light	Moderate
A	Runway	128	4450	100	32	0.737	-0.006	0.003	0.729	14	14	11	6					0.102	0.077	0.045	Light	Light	Moderate
C	Runway	128	4450	100	32	0.721	-0.003	0.004	0.714	13	13	10	6	-0.016	0.003	0.001	-1	0.096	0.072	0.045	Light	Light	Moderate
A	Runway	131	0	150	32	0.715	-0.013	0.002	0.709	15	15	11	7					0.104	0.080	0.052	Light	Light	Moderate
C	Runway	131	0	150	32	0.699	-0.006	0.002	0.694	16	16	12	7	-0.016	0.007	0	1	0.114	0.081	0.048	Light	Light	Moderate
A	Runway	132	695	150	32	0.707	-0.015	0.005	0.701	14	14	11	7					0.101	0.080	0.049	Light	Light	Moderate
C	Runway	132	695	150	32	0.672	-0.011	0.006	0.670	16	16	13	8	-0.035	0.004	0.001	2	0.109	0.086	0.053	Light	Light	Moderate
A	Runway	133	1389	150	32	0.709	-0.009	0.002	0.704	14	14	12	7					0.099	0.085	0.047	Light	Light	Moderate
C	Runway	133	1389	150	32	0.657	-0.017	0.001	0.656	17	17	13	8	-0.052	-0.008	-0.001	3	0.115	0.083	0.055	Light	Light	Moderate
A	Runway	134	2064	150	32	0.715	-0.019	0.002	0.709	14	14	11	7					0.096	0.078	0.048	Light	Light	Moderate
C	Runway	134	2064	150	32	0.685	-0.015	0.001	0.681	15	15	11	7	-0.03	0.004	-0.001	1	0.104	0.077	0.048	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	135	2739	150	32	0.725	-0.011	-0.001	0.718	14	14	11	7					0.098	0.078	0.049	Light	Light	Moderate
C	Runway	135	2739	150	32	0.707	-0.002	-0.003	0.702	15	15	12	8	-0.018	0.009	-0.002	1	0.105	0.082	0.053	Light	Light	Moderate
A	Runway	136	3300	150	32	0.722	-0.006	0.006	0.716	14	14	12	7					0.097	0.088	0.049	Light	Light	Moderate
C	Runway	136	3300	150	32	0.675	-0.013	0.003	0.672	16	16	13	8	-0.047	-0.007	-0.003	2	0.105	0.085	0.054	Light	Light	Moderate
A	Runway	137	3875	150	32	0.733	0.002	0.006	0.725	13	13	11	7					0.095	0.077	0.050	Light	Light	Moderate
C	Runway	137	3875	150	32	0.722	-0.002	0.007	0.715	13	13	10	7	-0.011	-0.004	0.001	0	0.096	0.075	0.050	Light	Light	Moderate
A	Runway	138	4450	150	32	0.748	-0.007	0	0.739	13	13	10	6					0.095	0.077	0.047	Light	Light	Moderate
C	Runway	138	4450	150	32	0.741	-0.001	0	0.733	13	12	10	7	-0.007	0.006	0	0	0.091	0.076	0.048	Light	Light	Moderate
A	Runway	141	0	250	32	0.749	-0.013	0	0.741	14	14	11	8					0.101	0.081	0.058	Light	Light	Moderate
C	Runway	141	0	250	32	0.749	-0.015	0.003	0.743	14	14	11	8	0	-0.002	0.003	0	0.103	0.084	0.059	Light	Light	Moderate
A	Runway	142	695	250	32	0.733	-0.016	0.001	0.727	13	13	11	8					0.096	0.080	0.056	Light	Light	Moderate
C	Runway	142	695	250	32	0.722	-0.003	0	0.717	16	16	12	8	-0.011	0.013	-0.001	3	0.111	0.085	0.057	Light	Light	Moderate
A	Runway	143	1389	250	32	0.737	-0.016	0.002	0.730	13	13	11	8					0.096	0.078	0.056	Light	Light	Moderate
C	Runway	143	1389	250	32	0.707	-0.011	0.001	0.702	15	15	12	8	-0.03	0.005	-0.001	2	0.104	0.083	0.055	Light	Light	Moderate
A	Runway	144	2064	250	32	0.753	-0.017	0.002	0.745	13	13	11	8					0.099	0.082	0.057	Light	Light	Moderate
C	Runway	144	2064	250	32	0.738	-0.013	0	0.731	14	14	11	8	-0.015	0.004	-0.002	1	0.104	0.079	0.056	Light	Light	Moderate
A	Runway	145	2739	250	32	0.747	-0.015	0.006	0.739	14	14	11	8					0.101	0.083	0.057	Light	Light	Moderate
C	Runway	145	2739	250	32	0.735	-0.011	-0.001	0.728	15	15	11	7	-0.012	0.004	-0.007	1	0.107	0.081	0.053	Light	Light	Moderate
A	Runway	146	3300	250	32	0.756	-0.007	0.005	0.748	12	12	11	7					0.089	0.082	0.055	Light	Light	Moderate
C	Runway	146	3300	250	32	0.725	-0.007	0.004	0.719	15	15	12	8	-0.031	0	-0.001	3	0.106	0.085	0.057	Light	Light	Moderate
A	Runway	147	3875	250	32	0.76	-0.009	0.011	0.752	14	14	11	8					0.103	0.083	0.057	Light	Light	Moderate
C	Runway	147	3875	250	32	0.761	-0.007	0.003	0.752	13	13	11	7	0.001	0.002	-0.008	-1	0.099	0.084	0.055	Light	Light	Moderate
A	Runway	148	4450	250	32	0.789	-0.012	-0.003	0.778	13	13	10	7					0.099	0.080	0.057	Light	Light	Moderate
C	Runway	148	4450	250	32	0.788	-0.009	0.002	0.778	11	11	11	7	-0.001	0.003	0.005	-2	0.088	0.082	0.055	Light	Light	Moderate
A	HPLZ1	201	0	25	32	0.519	-0.015	-0.002	0.524	17	17	13	8					0.091	0.070	0.041	Light	Light	Light
C	HPLZ1	201	0	25	32	0.441	-0.011	-0.001	0.457	21	22	18	10	-0.078	0.004	0.001	-4	0.102	0.083	0.047	Light	Light	Moderate
A	HPLZ1	202	675	25	32	0.562	-0.015	0.005	0.564	16	16	13	7					0.090	0.071	0.039	Light	Light	Light
C	HPLZ1	202	675	25	32	0.533	-0.026	0.013	0.538	19	19	14	7	-0.029	-0.011	0.008	3	0.102	0.074	0.039	Light	Light	Light
A	HPLZ1	203	1350	25	32	0.558	-0.031	-0.009	0.561	17	17	12	7					0.093	0.070	0.040	Light	Light	Light
C	HPLZ1	203	1350	25	32	0.532	-0.027	0.006	0.539	18	18	16	8	-0.026	0.004	0.015	1	0.095	0.084	0.041	Light	Light	Light
A	HPLZ1	211	0	50	32	0.604	-0.012	0.001	0.604	16	16	13	7					0.099	0.078	0.041	Light	Light	Light
C	HPLZ1	211	0	50	32	0.528	-0.025	-0.009	0.535	19	19	15	9	-0.076	-0.013	-0.01	3	0.104	0.081	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	32	0.628	-0.017	0.004	0.627	16	16	12	7					0.100	0.077	0.041	Light	Light	Light
C	HPLZ1	212	675	50	32	0.582	-0.026	0.007	0.583	17	17	12	8	-0.046	-0.009	0.003	1	0.102	0.072	0.044	Light	Light	Moderate
A	HPLZ1	213	1350	50	32	0.623	-0.027	0.006	0.622	16	16	12	6					0.098	0.075	0.039	Light	Light	Light
C	HPLZ1	213	1350	50	32	0.588	-0.027	0.012	0.591	18	18	15	7	-0.035	0	0.006	2	0.108	0.086	0.042	Light	Light	Light
A	HPLZ1	221	0	100	32	0.676	-0.018	0.006	0.672	16	16	12	6					0.106	0.080	0.043	Light	Light	Light
C	HPLZ1	221	0	100	32	0.609	-0.027	-0.003	0.610	18	18	13	8	-0.067	-0.009	-0.009	2	0.109	0.078	0.046	Light	Light	Moderate
A	HPLZ1	222	675	100	32	0.688	-0.018	0.003	0.683	14	14	11	7					0.098	0.077	0.045	Light	Light	Moderate
C	HPLZ1	222	675	100	32	0.648	-0.017	0	0.646	17	17	12	7	-0.04	0.001	-0.003	3	0.111	0.075	0.046	Light	Light	Moderate
A	HPLZ1	223	1350	100	32	0.696	-0.028	0.01	0.691	15	15	11	6					0.101	0.079	0.043	Light	Light	Light
C	HPLZ1	223	1350	100	32	0.643	-0.015	0.015	0.643	17	17	14	8	-0.053	0.013	0.005	2	0.110	0.090	0.052	Light	Light	Moderate
A	HPLZ1	231	0	150	32	0.707	-0.017	0.006	0.702	14	14	12	7					0.097	0.081	0.049	Light	Light	Moderate
C	HPLZ1	231	0	150	32	0.671	-0.023	-0.006	0.668	16	16	12	8	-0.036	-0.006	-0.012	2	0.106	0.082	0.051	Light	Light	Moderate
A	HPLZ1	232	675	150	32	0.707	-0.013	0.007	0.702	14	14	12	7					0.099	0.085	0.049	Light	Light	Moderate
C	HPLZ1	232	675	150	32	0.704	-0.015	-0.001	0.698	15	15	11	7	-0.003	-0.002	-0.008	1	0.107	0.078	0.048	Light	Light	Moderate
A	HPLZ1	233	1350	150	32	0.719	-0.016	0.01	0.713	13	13	12	7					0.093	0.083	0.048	Light	Light	Moderate
C	HPLZ1	233	1350	150	32	0.663	-0.011	0.01	0.662	17	17	13	9	-0.056	0.005	0	4	0.110	0.083	0.057	Light	Light	Moderate
A	HPLZ1	241	0	250	32	0.739	-0.013	0.003	0.732	14	14	11	8					0.103	0.082	0.057	Light	Light	Moderate
C	HPLZ1	241	0	250	32	0.719	-0.007	-0.001	0.714	15	15	12	8	-0.02	0.006	-0.004	1	0.108	0.089	0.054	Light	Light	Moderate
A	HPLZ1	242	675	250	32	0.746	-0.014	0.003	0.738	13	13	11	8					0.095	0.082	0.057	Light	Light	Moderate
C	HPLZ1	242	675	250	32	0.736	-0.01	0.001	0.729	13	13	11	7	-0.01	0.004	-0.002	0	0.097	0.083	0.053	Light	Light	Moderate
A	HPLZ1	243	1350	250	32	0.747	-0.018	0.007	0.740	13	13	11	8					0.094	0.079	0.057	Light	Light	Moderate
C	HPLZ1	243	1350	250	32	0.727	-0.007	0.006	0.722	16	16	12	8	-0.02	0.011	-0.001	3	0.112	0.085	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	32	0.523	-0.018	-0.004	0.529	18	18	14	8					0.094	0.075	0.043	Light	Light	Light
C	HPLZ2	301	0	25	32	0.402	-0.007	-0.008	0.423	22	24	20	13	-0.121	0.011	-0.004	-4	0.100	0.083	0.056	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	302	675	25	32	0.561	-0.01	0.002	0.563	17	17	12	7					0.095	0.070	0.041	Light	Light	Light
C	HPLZ2	302	675	25	32	0.553	-0.013	0.009	0.555	17	17	12	7	-0.008	-0.003	0.007	0	0.095	0.068	0.039	Light	Light	Light
A	HPLZ2	303	1350	25	32	0.569	-0.008	-0.008	0.571	17	17	13	7					0.097	0.074	0.039	Light	Light	Light
C	HPLZ2	303	1350	25	32	0.535	-0.019	-0.001	0.541	20	20	16	8	-0.034	-0.011	0.007	3	0.110	0.086	0.042	Light	Light	Light
A	HPLZ2	311	0	50	32	0.587	-0.019	0	0.588	18	18	13	8					0.105	0.079	0.044	Light	Light	Moderate
C	HPLZ2	311	0	50	32	0.531	-0.026	-0.016	0.537	19	19	14	8	-0.056	-0.007	-0.016	1	0.102	0.076	0.044	Light	Light	Moderate
A	HPLZ2	312	675	50	32	0.637	-0.011	0.006	0.635	16	16	12	6					0.100	0.079	0.039	Light	Light	Light
C	HPLZ2	312	675	50	32	0.609	-0.01	0.002	0.608	16	16	12	7	-0.028	0.001	-0.004	0	0.099	0.073	0.044	Light	Light	Moderate
A	HPLZ2	313	1350	50	32	0.629	-0.013	0	0.627	14	14	12	6					0.091	0.076	0.040	Light	Light	Light
C	HPLZ2	313	1350	50	32	0.6	-0.031	0.008	0.604	19	19	15	7	-0.029	-0.018	0.008	5	0.114	0.090	0.045	Light	Light	Moderate
A	HPLZ2	321	0	100	32	0.678	-0.013	0.003	0.674	15	15	12	6					0.099	0.080	0.044	Light	Light	Moderate
C	HPLZ2	321	0	100	32	0.641	-0.03	-0.006	0.640	17	17	13	7	-0.037	-0.017	-0.009	2	0.107	0.080	0.046	Light	Light	Moderate
A	HPLZ2	322	675	100	32	0.689	-0.015	0.007	0.684	14	14	12	6					0.099	0.080	0.044	Light	Light	Moderate
C	HPLZ2	322	675	100	32	0.654	-0.004	-0.002	0.651	16	16	11	7	-0.035	0.011	-0.009	2	0.102	0.075	0.046	Light	Light	Moderate
A	HPLZ2	323	1350	100	32	0.692	-0.005	0.006	0.687	15	14	12	6					0.099	0.084	0.043	Light	Light	Light
C	HPLZ2	323	1350	100	32	0.625	-0.014	0.007	0.626	19	19	14	9	-0.067	-0.009	0.001	4	0.116	0.088	0.054	Light	Light	Moderate
A	HPLZ2	331	0	150	32	0.697	-0.013	0.008	0.692	14	14	12	7					0.095	0.084	0.049	Light	Light	Moderate
C	HPLZ2	331	0	150	32	0.688	-0.02	-0.006	0.684	16	16	12	7	-0.009	-0.007	-0.014	2	0.106	0.081	0.051	Light	Light	Moderate
A	HPLZ2	332	675	150	32	0.717	-0.019	0.004	0.711	15	15	12	7					0.105	0.082	0.050	Light	Light	Moderate
C	HPLZ2	332	675	150	32	0.687	-0.009	-0.005	0.682	15	15	12	7	-0.03	0.01	-0.009	0	0.105	0.080	0.051	Light	Light	Moderate
A	HPLZ2	333	1350	150	32	0.722	-0.006	0.009	0.716	13	13	12	7					0.092	0.086	0.050	Light	Light	Moderate
C	HPLZ2	333	1350	150	32	0.668	-0.01	0.004	0.666	18	18	13	8	-0.054	-0.004	-0.005	5	0.119	0.090	0.056	Light	Light	Moderate
A	HPLZ2	341	0	250	32	0.734	-0.01	0.007	0.728	14	14	12	8					0.102	0.086	0.058	Light	Light	Moderate
C	HPLZ2	341	0	250	32	0.726	-0.011	-0.007	0.720	14	13	12	8	-0.008	-0.001	-0.014	0	0.097	0.084	0.056	Light	Light	Moderate
A	HPLZ2	342	675	250	32	0.757	-0.018	0.004	0.750	12	12	11	7					0.092	0.085	0.056	Light	Light	Moderate
C	HPLZ2	342	675	250	32	0.735	-0.009	-0.004	0.728	13	13	12	8	-0.022	0.009	-0.008	1	0.095	0.086	0.056	Light	Light	Moderate
A	HPLZ2	343	1350	250	32	0.763	-0.006	0.004	0.755	13	13	11	7					0.098	0.084	0.055	Light	Light	Moderate
C	HPLZ2	343	1350	250	32	0.731	-0.01	0.002	0.725	16	16	12	8	-0.032	-0.004	-0.002	3	0.113	0.090	0.057	Light	Light	Moderate
A	SLZ1	401	0	25	32	0.564	-0.019	-0.02	0.566	16	16	12	8					0.093	0.068	0.043	Light	Light	Light
C	SLZ1	401	0	25	32	0.554	-0.031	-0.018	0.557	18	18	12	8	-0.01	-0.012	0.002	2	0.099	0.068	0.044	Light	Light	Moderate
A	SLZ1	402	575	25	32	0.61	-0.009	-0.004	0.608	16	16	11	6					0.097	0.070	0.039	Light	Light	Light
C	SLZ1	402	575	25	32	0.629	-0.003	-0.007	0.627	15	15	12	6	0.019	0.006	-0.003	-1	0.091	0.073	0.038	Light	Light	Light
A	SLZ1	403	1150	25	32	0.651	-0.005	0.001	0.647	15	15	11	6					0.096	0.071	0.039	Light	Light	Light
C	SLZ1	403	1150	25	32	0.643	0.001	0	0.640	16	16	11	6	-0.008	0.006	-0.001	1	0.101	0.073	0.039	Light	Light	Light
A	SLZ1	411	0	50	32	0.649	-0.024	-0.007	0.645	15	15	11	7					0.099	0.071	0.043	Light	Light	Light
C	SLZ1	411	0	50	32	0.638	-0.035	-0.005	0.637	17	17	12	7	-0.011	-0.011	0.002	2	0.108	0.076	0.043	Light	Light	Light
A	SLZ1	412	575	50	32	0.65	-0.005	0.003	0.646	15	15	11	6					0.095	0.070	0.041	Light	Light	Light
C	SLZ1	412	575	50	32	0.679	-0.003	-0.002	0.674	15	15	11	6	0.029	0.002	-0.005	0	0.101	0.076	0.040	Light	Light	Light
A	SLZ1	413	1150	50	32	0.68	-0.009	0.004	0.674	14	14	11	6					0.095	0.075	0.040	Light	Light	Light
C	SLZ1	413	1150	50	32	0.679	-0.004	0.001	0.674	15	15	12	6	-0.001	0.005	-0.003	1	0.098	0.079	0.040	Light	Light	Light
A	SLZ1	421	0	100	32	0.708	-0.012	-0.005	0.702	14	14	12	6					0.098	0.083	0.044	Light	Light	Moderate
C	SLZ1	421	0	100	32	0.671	-0.022	-0.003	0.667	17	16	12	7	-0.037	-0.01	0.002	3	0.110	0.078	0.049	Light	Light	Moderate
A	SLZ1	422	575	100	32	0.703	-0.01	0.006	0.696	13	13	11	6					0.094	0.074	0.045	Light	Light	Moderate
C	SLZ1	422	575	100	32	0.711	-0.005	0.002	0.704	14	14	11	6	0.008	0.005	-0.004	1	0.096	0.077	0.044	Light	Light	Moderate
A	SLZ1	423	1150	100	32	0.725	-0.01	0.002	0.717	14	14	11	6					0.098	0.078	0.046	Light	Light	Moderate
C	SLZ1	423	1150	100	32	0.722	-0.004	0.005	0.715	13	13	11	6	-0.003	0.006	0.003	-1	0.095	0.080	0.046	Light	Light	Moderate
A	SLZ1	431	0	150	32	0.729	-0.018	0.001	0.723	14	13	12	7					0.097	0.085	0.048	Light	Light	Moderate
C	SLZ1	431	0	150	32	0.702	-0.018	-0.003	0.698	14	14	13	8	-0.027	0	-0.004	0	0.101	0.089	0.054	Light	Light	Moderate
A	SLZ1	432	575	150	32	0.741	-0.007	0.002	0.734	14	13	12	7					0.099	0.085	0.048	Light	Light	Moderate
C	SLZ1	432	575	150	32	0.741	-0.009	-0.001	0.733	13	13	10	7	0	-0.002	-0.003	-1	0.094	0.076	0.050	Light	Light	Moderate
A	SLZ1	433	1150	150	32	0.744	-0.01	0.001	0.736	13	13	11	7					0.096	0.079	0.052	Light	Light	Moderate
C	SLZ1	433	1150	150	32	0.763	0	0.001	0.754	13	13	10	7	0.019	0.01	0	0	0.098	0.079	0.049	Light	Light	Moderate
A	SLZ1	441	0	250	32	0.76	-0.014	0.002	0.752	13	13	11	7					0.096	0.082	0.054	Light	Light	Moderate
C	SLZ1	441	0	250	32	0.753	-0.008	-0.004	0.746	15	15	12	8	-0.007	0.006	-0.006	2	0.109	0.089	0.060	Light	Light	Moderate
A	SLZ1	442	575	250	32	0.776	-0.011	-0.003	0.766	12	12	10	7					0.092	0.077	0.056	Light	Light	Moderate
C	SLZ1	442	575	250	32	0.758	-0.009	-0.001	0.749	13	13	10	8	-0.018	0.002	0.002	1	0.098	0.077	0.057	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ1	443	1150	250	32	0.769	-0.012	0.003	0.760	12	12	11	8					0.090	0.081	0.058	Light	Light	Moderate
C	SLZ1	443	1150	250	32	0.782	-0.003	0	0.772	12	12	10	8	0.013	0.009	-0.003	0	0.096	0.079	0.059	Light	Light	Moderate
A	SLZ2	501	0	25	32	0.611	-0.006	-0.004	0.609	15	15	12	6					0.093	0.072	0.039	Light	Light	Light
C	SLZ2	501	0	25	32	0.627	-0.007	-0.008	0.625	16	16	11	6	0.016	-0.001	-0.004	1	0.099	0.068	0.039	Light	Light	Light
A	SLZ2	502	575	25	32	0.635	-0.01	-0.003	0.632	16	16	12	6					0.102	0.074	0.038	Light	Light	Light
C	SLZ2	502	575	25	32	0.627	-0.003	-0.003	0.624	15	15	12	6	-0.008	0.007	0	-1	0.095	0.073	0.040	Light	Light	Light
A	SLZ2	503	1150	25	32	0.645	-0.014	-0.005	0.641	15	15	11	6					0.097	0.073	0.040	Light	Light	Light
C	SLZ2	503	1150	25	32	0.649	-0.012	-0.004	0.645	16	16	11	6	0.004	0.002	0.001	1	0.101	0.073	0.038	Light	Light	Light
A	SLZ2	511	0	50	32	0.66	-0.009	0.002	0.656	16	16	11	6					0.103	0.075	0.040	Light	Light	Light
C	SLZ2	511	0	50	32	0.67	-0.007	0	0.665	14	14	11	6	0.01	0.002	-0.002	-2	0.095	0.073	0.039	Light	Light	Light
A	SLZ2	512	575	50	32	0.671	-0.011	-0.001	0.666	14	14	11	6					0.093	0.072	0.040	Light	Light	Light
C	SLZ2	512	575	50	32	0.68	-0.001	-0.001	0.675	14	14	11	6	0.009	0.01	0	0	0.097	0.075	0.039	Light	Light	Light
A	SLZ2	513	1150	50	32	0.681	-0.008	0.004	0.676	15	15	11	6					0.099	0.077	0.041	Light	Light	Light
C	SLZ2	513	1150	50	32	0.688	-0.009	-0.001	0.682	14	14	11	6	0.007	-0.001	-0.005	-1	0.096	0.074	0.041	Light	Light	Light
A	SLZ2	521	0	100	32	0.712	-0.007	0.005	0.706	14	14	11	6					0.099	0.080	0.044	Light	Light	Moderate
C	SLZ2	521	0	100	32	0.703	-0.014	-0.002	0.696	14	14	11	6	-0.009	-0.007	-0.007	0	0.096	0.073	0.045	Light	Light	Moderate
A	SLZ2	522	575	100	32	0.711	-0.014	0.002	0.704	14	14	11	6					0.101	0.074	0.045	Light	Light	Moderate
C	SLZ2	522	575	100	32	0.716	-0.003	-0.001	0.709	14	14	12	6	0.005	0.011	-0.003	0	0.098	0.083	0.045	Light	Light	Moderate
A	SLZ2	523	1150	100	32	0.727	-0.011	0.002	0.719	14	14	11	7					0.097	0.081	0.047	Light	Light	Moderate
C	SLZ2	523	1150	100	32	0.723	-0.01	0.002	0.715	13	13	11	6	-0.004	0.001	0	-1	0.091	0.077	0.046	Light	Light	Moderate
A	SLZ2	531	0	150	32	0.736	-0.01	0.004	0.728	14	14	11	7					0.101	0.080	0.050	Light	Light	Moderate
C	SLZ2	531	0	150	32	0.723	-0.008	-0.002	0.716	14	14	11	7	-0.013	0.002	-0.006	0	0.099	0.076	0.048	Light	Light	Moderate
A	SLZ2	532	575	150	32	0.752	-0.008	-0.001	0.744	14	14	11	7					0.101	0.082	0.051	Light	Light	Moderate
C	SLZ2	532	575	150	32	0.738	-0.01	-0.001	0.730	13	13	10	7	-0.014	-0.002	0	-1	0.097	0.076	0.049	Light	Light	Moderate
A	SLZ2	533	1150	150	32	0.742	-0.006	0.007	0.734	13	13	11	7					0.095	0.078	0.051	Light	Light	Moderate
C	SLZ2	533	1150	150	32	0.747	-0.008	0.003	0.739	13	13	10	7	0.005	-0.002	-0.004	0	0.098	0.076	0.053	Light	Light	Moderate
A	SLZ2	541	0	250	32	0.766	-0.01	0.002	0.757	13	13	11	8					0.096	0.081	0.058	Light	Light	Moderate
C	SLZ2	541	0	250	32	0.759	-0.009	-0.005	0.750	13	13	10	7	-0.007	0.001	-0.007	0	0.100	0.077	0.055	Light	Light	Moderate
A	SLZ2	542	575	250	32	0.769	-0.007	0.003	0.759	12	12	10	7					0.090	0.079	0.055	Light	Light	Moderate
C	SLZ2	542	575	250	32	0.764	-0.003	-0.004	0.755	13	13	11	7	-0.005	0.004	-0.007	1	0.099	0.080	0.055	Light	Light	Moderate
A	SLZ2	543	1150	250	32	0.788	-0.018	0.001	0.778	12	12	11	7					0.093	0.082	0.056	Light	Light	Moderate
C	SLZ2	543	1150	250	32	0.777	-0.008	-0.002	0.767	12	12	10	8	-0.011	0.01	-0.003	0	0.094	0.077	0.059	Light	Light	Moderate
A	Runway	101	0	25	167	0.61	-0.011	0	0.609	16	16	12	6					0.098	0.071	0.038	Light	Light	Light
C	Runway	101	0	25	167	0.599	-0.011	-0.002	0.598	17	17	12	7	-0.011	0	-0.002	1	0.099	0.072	0.039	Light	Light	Light
A	Runway	102	695	25	167	0.568	-0.012	-0.009	0.569	16	16	11	7					0.092	0.065	0.042	Light	Light	Light
C	Runway	102	695	25	167	0.576	-0.01	-0.008	0.577	17	17	12	7	0.008	0.002	0.001	1	0.100	0.069	0.039	Light	Light	Light
A	Runway	103	1389	25	167	0.565	-0.009	0.001	0.567	17	17	13	7					0.096	0.072	0.040	Light	Light	Light
C	Runway	103	1389	25	167	0.558	-0.013	0.004	0.561	17	17	13	7	-0.007	-0.004	0.003	0	0.096	0.075	0.040	Light	Light	Light
A	Runway	104	2064	25	167	0.556	-0.018	0.004	0.558	17	17	13	7					0.095	0.072	0.040	Light	Light	Light
C	Runway	104	2064	25	167	0.549	-0.009	0.003	0.552	17	17	12	7	-0.007	0.009	-0.001	0	0.096	0.064	0.040	Light	Light	Light
A	Runway	105	2739	25	167	0.539	-0.016	-0.001	0.542	16	17	12	8					0.090	0.067	0.041	Light	Light	Light
C	Runway	105	2739	25	167	0.538	-0.011	-0.006	0.542	16	17	13	7	-0.001	0.005	-0.005	0	0.090	0.068	0.040	Light	Light	Light
A	Runway	106	3300	25	167	0.538	-0.002	-0.008	0.541	17	17	13	8					0.092	0.068	0.041	Light	Light	Light
C	Runway	106	3300	25	167	0.523	0.001	-0.006	0.527	17	17	13	8	-0.015	0.003	0.002	0	0.092	0.068	0.041	Light	Light	Light
A	Runway	107	3875	25	167	0.52	-0.017	-0.005	0.525	17	17	14	8					0.090	0.072	0.041	Light	Light	Light
C	Runway	107	3875	25	167	0.519	-0.008	-0.008	0.523	17	18	13	8	-0.001	0.009	-0.003	0	0.092	0.066	0.040	Light	Light	Light
A	Runway	108	4450	25	167	0.521	-0.008	-0.006	0.527	17	17	14	8					0.090	0.073	0.041	Light	Light	Light
C	Runway	108	4450	25	167	0.508	-0.01	-0.006	0.514	17	18	14	8	-0.013	-0.002	0	0	0.090	0.070	0.041	Light	Light	Light
A	Runway	111	0	50	167	0.66	-0.012	0.002	0.656	15	15	11	6					0.096	0.072	0.042	Light	Light	Light
C	Runway	111	0	50	167	0.646	-0.01	0.003	0.643	16	16	11	6	-0.014	0.002	0.001	1	0.101	0.074	0.039	Light	Light	Light
A	Runway	112	695	50	167	0.642	-0.014	-0.003	0.639	16	16	12	7					0.100	0.074	0.042	Light	Light	Light
C	Runway	112	695	50	167	0.633	-0.011	0	0.631	16	16	12	7	-0.009	0.003	0.003	0	0.099	0.078	0.041	Light	Light	Light
A	Runway	113	1389	50	167	0.625	-0.018	0.005	0.624	16	16	12	7					0.101	0.076	0.042	Light	Light	Light
C	Runway	113	1389	50	167	0.62	-0.013	0.003	0.619	16	16	12	7	-0.005	0.005	-0.002	0	0.100	0.075	0.041	Light	Light	Light
A	Runway	114	2064	50	167	0.611	-0.008	0.002	0.610	17	17	11	7					0.102	0.067	0.041	Light	Light	Light
C	Runway	114	2064	50	167	0.621	-0.015	0.005	0.621	17	17	13	7	0.01	-0.007	0.003	0	0.105	0.078	0.042	Light	Light	Light

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	115	2739	50	167	0.624	-0.015	0.003	0.622	16	16	12	6					0.100	0.076	0.040	Light	Light	Light
C	Runway	115	2739	50	167	0.615	-0.014	0.003	0.614	16	16	12	6	-0.009	0.001	0	0	0.101	0.072	0.040	Light	Light	Light
A	Runway	116	3300	50	167	0.604	-0.013	0	0.604	16	16	12	7					0.097	0.074	0.041	Light	Light	Light
C	Runway	116	3300	50	167	0.615	0.002	0	0.614	15	15	13	6	0.011	0.015	0	-1	0.093	0.077	0.039	Light	Light	Light
A	Runway	117	3875	50	167	0.615	-0.021	0.003	0.614	17	17	12	7					0.104	0.073	0.040	Light	Light	Light
C	Runway	117	3875	50	167	0.607	-0.018	0.002	0.607	17	16	12	6	-0.008	0.003	-0.001	0	0.100	0.075	0.039	Light	Light	Light
A	Runway	118	4450	50	167	0.617	-0.007	0.002	0.616	16	16	13	7					0.099	0.078	0.040	Light	Light	Light
C	Runway	118	4450	50	167	0.612	-0.021	0.005	0.612	16	16	13	6	-0.005	-0.014	0.003	0	0.098	0.079	0.040	Light	Light	Light
A	Runway	121	0	100	167	0.699	-0.014	0.003	0.694	14	14	12	6					0.094	0.082	0.044	Light	Light	Moderate
C	Runway	121	0	100	167	0.7	-0.01	0.003	0.694	15	15	11	7	0.001	0.004	0	1	0.102	0.077	0.046	Light	Light	Moderate
A	Runway	122	695	100	167	0.688	-0.017	0.001	0.683	16	16	11	7					0.107	0.075	0.046	Light	Light	Moderate
C	Runway	122	695	100	167	0.679	-0.014	0.005	0.675	15	15	12	7	-0.009	0.003	0.004	-1	0.104	0.080	0.045	Light	Light	Moderate
A	Runway	123	1389	100	167	0.678	-0.008	0.007	0.673	15	15	12	7					0.099	0.080	0.045	Light	Light	Moderate
C	Runway	123	1389	100	167	0.685	-0.013	0.006	0.680	15	15	11	7	0.007	-0.005	-0.001	0	0.105	0.075	0.048	Light	Light	Moderate
A	Runway	124	2064	100	167	0.677	-0.011	0.003	0.673	15	15	11	7					0.099	0.077	0.045	Light	Light	Moderate
C	Runway	124	2064	100	167	0.664	-0.014	0.004	0.660	15	15	11	7	-0.013	-0.003	0.001	0	0.101	0.072	0.043	Light	Light	Light
A	Runway	125	2739	100	167	0.688	-0.019	0.006	0.684	16	16	12	6					0.106	0.080	0.043	Light	Light	Light
C	Runway	125	2739	100	167	0.685	-0.013	0.008	0.680	15	15	11	6	-0.003	0.006	0.002	-1	0.100	0.077	0.042	Light	Light	Light
A	Runway	126	3300	100	167	0.677	-0.011	0.005	0.672	16	16	12	6					0.105	0.080	0.041	Light	Light	Light
C	Runway	126	3300	100	167	0.68	-0.01	0.005	0.676	15	15	12	6	0.003	0.001	0	-1	0.103	0.082	0.042	Light	Light	Light
A	Runway	127	3875	100	167	0.688	-0.022	0.008	0.684	14	14	12	6					0.099	0.079	0.043	Light	Light	Light
C	Runway	127	3875	100	167	0.677	-0.016	0.008	0.673	15	15	12	6	-0.011	0.006	0	1	0.098	0.082	0.042	Light	Light	Light
A	Runway	128	4450	100	167	0.686	-0.022	0.007	0.682	15	15	12	6					0.100	0.082	0.042	Light	Light	Light
C	Runway	128	4450	100	167	0.677	-0.021	0.008	0.673	15	15	12	7	-0.009	0.001	0.001	0	0.103	0.079	0.044	Light	Light	Moderate
A	Runway	131	0	150	167	0.738	-0.015	0.003	0.730	14	14	11	7					0.099	0.078	0.050	Light	Light	Moderate
C	Runway	131	0	150	167	0.722	-0.006	0.001	0.715	13	13	11	7	-0.016	0.009	-0.002	-1	0.093	0.079	0.050	Light	Light	Moderate
A	Runway	132	695	150	167	0.721	-0.019	-0.001	0.714	14	14	11	7					0.099	0.080	0.047	Light	Light	Moderate
C	Runway	132	695	150	167	0.71	-0.011	0.007	0.703	15	15	10	7	-0.011	0.008	0.008	1	0.102	0.074	0.051	Light	Light	Moderate
A	Runway	133	1389	150	167	0.724	-0.017	0.001	0.717	14	14	11	7					0.103	0.077	0.049	Light	Light	Moderate
C	Runway	133	1389	150	167	0.719	-0.006	0.005	0.713	14	14	11	7	-0.005	0.011	0.004	0	0.101	0.079	0.050	Light	Light	Moderate
A	Runway	134	2064	150	167	0.713	-0.013	0.004	0.706	14	14	11	7					0.098	0.079	0.047	Light	Light	Moderate
C	Runway	134	2064	150	167	0.71	-0.009	0.003	0.704	14	14	11	7	-0.003	0.004	-0.001	0	0.100	0.077	0.049	Light	Light	Moderate
A	Runway	135	2739	150	167	0.719	-0.014	0.007	0.713	14	14	12	7					0.101	0.083	0.048	Light	Light	Moderate
C	Runway	135	2739	150	167	0.728	-0.011	0.005	0.721	13	13	11	7	0.009	0.003	-0.002	-1	0.097	0.078	0.047	Light	Light	Moderate
A	Runway	136	3300	150	167	0.718	-0.015	0.006	0.712	14	14	12	7					0.096	0.082	0.047	Light	Light	Moderate
C	Runway	136	3300	150	167	0.701	-0.01	0.007	0.695	14	14	11	7	-0.017	0.005	0.001	0	0.094	0.075	0.046	Light	Light	Moderate
A	Runway	137	3875	150	167	0.709	-0.018	0.01	0.704	15	15	12	7					0.103	0.082	0.048	Light	Light	Moderate
C	Runway	137	3875	150	167	0.715	-0.016	0.008	0.709	14	14	12	7	0.006	0.002	-0.002	-1	0.099	0.083	0.047	Light	Light	Moderate
A	Runway	138	4450	150	167	0.715	-0.016	0.008	0.709	14	14	12	7					0.097	0.085	0.047	Light	Light	Moderate
C	Runway	138	4450	150	167	0.701	-0.013	0.01	0.696	14	14	12	7	-0.014	0.003	0.002	0	0.100	0.081	0.048	Light	Light	Moderate
A	Runway	141	0	250	167	0.772	-0.023	0.001	0.692	13	13	10	7					0.097	0.078	0.055	Light	Light	Moderate
C	Runway	141	0	250	167	0.76	-0.009	-0.001	0.750	13	13	10	7	-0.012	0.014	-0.002	0	0.096	0.077	0.054	Light	Light	Moderate
A	Runway	142	695	250	167	0.764	-0.016	0	0.755	12	12	11	7					0.092	0.079	0.054	Light	Light	Moderate
C	Runway	142	695	250	167	0.76	-0.012	0.002	0.751	13	13	10	7	-0.004	0.004	0.002	1	0.099	0.075	0.054	Light	Light	Moderate
A	Runway	143	1389	250	167	0.753	-0.015	0.001	0.745	13	13	11	7					0.096	0.079	0.054	Light	Light	Moderate
C	Runway	143	1389	250	167	0.752	-0.007	0.001	0.743	13	13	10	8	-0.001	0.008	0	0	0.096	0.077	0.056	Light	Light	Moderate
A	Runway	144	2064	250	167	0.753	-0.007	-0.001	0.745	13	13	11	8					0.098	0.081	0.057	Light	Light	Moderate
C	Runway	144	2064	250	167	0.743	-0.012	0.005	0.735	13	13	11	7	-0.01	-0.005	0.006	0	0.097	0.081	0.054	Light	Light	Moderate
A	Runway	145	2739	250	167	0.746	-0.01	0.003	0.739	13	13	11	8					0.099	0.082	0.057	Light	Light	Moderate
C	Runway	145	2739	250	167	0.747	-0.015	0.003	0.740	13	13	11	7	0.001	-0.005	0	0	0.093	0.082	0.055	Light	Light	Moderate
A	Runway	146	3300	250	167	0.748	-0.018	0.002	0.741	13	13	11	7					0.096	0.080	0.054	Light	Light	Moderate
C	Runway	146	3300	250	167	0.747	-0.008	0.005	0.740	13	13	12	7	-0.001	0.01	0.003	0	0.097	0.086	0.055	Light	Light	Moderate
A	Runway	147	3875	250	167	0.744	-0.022	0.006	0.736	13	13	11	7					0.098	0.079	0.053	Light	Light	Moderate
C	Runway	147	3875	250	167	0.741	-0.014	0.007	0.734	13	13	11	8	-0.003	0.008	0.001	0	0.095	0.081	0.057	Light	Light	Moderate
A	Runway	148	4450	250	167	0.729	-0.014	0.004	0.722	15	15	11	8					0.105	0.079	0.057	Light	Light	Moderate
C	Runway	148	4450	250	167	0.739	-0.022	0.009	0.732	14	14	11	8	0.01	-0.008	0.005	-1	0.101	0.082	0.056	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	HPLZ1	201	0	25	167	0.568	-0.015	-0.004	0.569	17	17	11	7					0.094	0.063	0.039	Light	Light	Light
C	HPLZ1	201	0	25	167	0.573	-0.002	-0.004	0.574	17	16	12	7	0.005	0.013	0	0	0.095	0.069	0.040	Light	Light	Light
A	HPLZ1	202	675	25	167	0.533	-0.006	-0.007	0.536	17	17	12	8					0.092	0.066	0.042	Light	Light	Light
C	HPLZ1	202	675	25	167	0.546	-0.007	-0.007	0.549	17	17	12	8	0.013	-0.001	0	0	0.092	0.065	0.042	Light	Light	Light
A	HPLZ1	203	1350	25	167	0.412	-0.032	-0.015	0.434	23	25	20	14					0.107	0.088	0.060	Light	Light	Moderate
C	HPLZ1	203	1350	25	167	0.4	-0.033	-0.016	0.421	21	23	18	15	-0.012	-0.001	-0.001	-2	0.096	0.076	0.063	Light	Light	Moderate
A	HPLZ1	211	0	50	167	0.624	-0.013	0.001	0.622	16	16	12	7					0.097	0.074	0.041	Light	Light	Light
C	HPLZ1	211	0	50	167	0.631	-0.004	0	0.628	16	16	11	7	0.007	0.009	-0.001	0	0.099	0.069	0.043	Light	Light	Light
A	HPLZ1	212	675	50	167	0.606	-0.014	-0.006	0.606	16	16	12	7					0.097	0.075	0.043	Light	Light	Light
C	HPLZ1	212	675	50	167	0.605	-0.013	-0.004	0.604	17	17	12	7	-0.001	0.001	0.002	1	0.100	0.075	0.043	Light	Light	Light
A	HPLZ1	213	1350	50	167	0.574	-0.01	-0.04	0.578	18	18	14	8					0.103	0.080	0.047	Light	Light	Moderate
C	HPLZ1	213	1350	50	167	0.572	-0.018	-0.04	0.577	19	19	14	8	-0.002	-0.008	0	1	0.107	0.080	0.049	Light	Light	Moderate
A	HPLZ1	221	0	100	167	0.695	-0.019	0.001	0.690	15	15	12	6					0.103	0.080	0.044	Light	Light	Moderate
C	HPLZ1	221	0	100	167	0.697	-0.007	0.001	0.691	14	14	11	7	0.002	0.012	0	-1	0.099	0.074	0.046	Light	Light	Moderate
A	HPLZ1	222	675	100	167	0.679	-0.019	-0.001	0.675	14	14	12	6					0.096	0.079	0.043	Light	Light	Light
C	HPLZ1	222	675	100	167	0.687	-0.012	-0.003	0.682	15	15	12	6	0.008	0.007	-0.002	1	0.100	0.081	0.042	Light	Light	Light
A	HPLZ1	223	1350	100	167	0.692	-0.016	-0.011	0.686	14	14	11	6					0.097	0.075	0.043	Light	Light	Light
C	HPLZ1	223	1350	100	167	0.681	-0.017	-0.009	0.676	15	15	11	6	-0.011	-0.001	0.002	1	0.100	0.076	0.043	Light	Light	Light
A	HPLZ1	231	0	150	167	0.722	-0.017	0.002	0.715	14	14	11	7					0.103	0.078	0.049	Light	Light	Moderate
C	HPLZ1	231	0	150	167	0.72	-0.009	0.004	0.714	14	14	11	7	-0.002	0.008	0.002	0	0.099	0.079	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	167	0.709	-0.018	0	0.703	13	13	11	6					0.094	0.075	0.045	Light	Light	Moderate
C	HPLZ1	232	675	150	167	0.718	-0.011	-0.002	0.711	13	13	11	6	0.009	0.007	-0.002	0	0.091	0.077	0.046	Light	Light	Moderate
A	HPLZ1	233	1350	150	167	0.711	-0.023	-0.003	0.705	14	14	12	7					0.098	0.082	0.048	Light	Light	Moderate
C	HPLZ1	233	1350	150	167	0.707	-0.019	-0.001	0.701	14	14	11	7	-0.004	0.004	0.002	0	0.097	0.079	0.047	Light	Light	Moderate
A	HPLZ1	241	0	250	167	0.754	-0.014	-0.002	0.745	13	13	10	7					0.094	0.077	0.056	Light	Light	Moderate
C	HPLZ1	241	0	250	167	0.752	-0.014	0.003	0.744	13	13	11	7	-0.002	0	0.005	0	0.099	0.078	0.055	Light	Light	Moderate
A	HPLZ1	242	675	250	167	0.756	-0.013	-0.004	0.747	13	13	10	7					0.098	0.078	0.055	Light	Light	Moderate
C	HPLZ1	242	675	250	167	0.758	-0.017	-0.003	0.750	13	13	11	7	0.002	-0.004	0.001	0	0.099	0.082	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	167	0.753	-0.017	-0.003	0.745	14	14	11	7					0.101	0.082	0.055	Light	Light	Moderate
C	HPLZ1	243	1350	250	167	0.747	-0.014	-0.003	0.739	13	13	10	7	-0.006	0.003	0	-1	0.097	0.077	0.055	Light	Light	Moderate
A	HPLZ2	301	0	25	167	0.59	-0.015	-0.004	0.589	16	16	11	7					0.092	0.067	0.040	Light	Light	Light
C	HPLZ2	301	0	25	167	0.566	-0.001	-0.001	0.568	16	16	13	7	-0.024	0.014	0.003	0	0.089	0.071	0.039	Light	Light	Light
A	HPLZ2	302	675	25	167	0.566	-0.016	-0.009	0.568	16	16	12	7					0.090	0.068	0.040	Light	Light	Light
C	HPLZ2	302	675	25	167	0.567	-0.006	-0.009	0.569	17	17	12	7	0.001	0.01	0	1	0.096	0.068	0.040	Light	Light	Light
A	HPLZ2	303	1350	25	167	0.552	0.003	-0.003	0.554	17	17	12	7					0.092	0.067	0.039	Light	Light	Light
C	HPLZ2	303	1350	25	167	0.546	-0.003	0.001	0.548	17	17	12	7	-0.006	-0.006	0.004	0	0.093	0.065	0.039	Light	Light	Light
A	HPLZ2	311	0	50	167	0.629	-0.014	0	0.627	15	15	11	7					0.095	0.069	0.041	Light	Light	Light
C	HPLZ2	311	0	50	167	0.625	-0.004	0.008	0.624	16	16	13	6	-0.004	0.01	0.008	1	0.101	0.079	0.039	Light	Light	Light
A	HPLZ2	312	675	50	167	0.628	-0.012	-0.001	0.625	15	15	11	7					0.096	0.069	0.041	Light	Light	Light
C	HPLZ2	312	675	50	167	0.642	-0.009	-0.005	0.639	15	15	11	6	0.014	0.003	-0.004	0	0.096	0.072	0.038	Light	Light	Light
A	HPLZ2	313	1350	50	167	0.615	-0.01	0.004	0.614	16	16	12	6					0.096	0.073	0.039	Light	Light	Light
C	HPLZ2	313	1350	50	167	0.605	-0.004	0.007	0.604	16	16	12	6	-0.01	0.006	0.003	0	0.095	0.072	0.038	Light	Light	Light
A	HPLZ2	321	0	100	167	0.682	-0.015	0.002	0.677	14	14	12	6					0.097	0.079	0.044	Light	Light	Moderate
C	HPLZ2	321	0	100	167	0.67	-0.01	0.01	0.666	14	14	11	6	-0.012	0.005	0.008	0	0.095	0.073	0.043	Light	Light	Light
A	HPLZ2	322	675	100	167	0.697	-0.017	-0.003	0.691	14	14	11	6					0.099	0.076	0.043	Light	Light	Light
C	HPLZ2	322	675	100	167	0.68	-0.01	0.001	0.675	15	15	10	7	-0.017	0.007	0.004	1	0.101	0.071	0.044	Light	Light	Moderate
A	HPLZ2	323	1350	100	167	0.689	-0.017	0.003	0.683	15	15	11	6					0.100	0.073	0.044	Light	Light	Moderate
C	HPLZ2	323	1350	100	167	0.68	-0.014	0.005	0.676	14	14	11	6	-0.009	0.003	0.002	-1	0.093	0.077	0.043	Light	Light	Light
A	HPLZ2	331	0	150	167	0.72	-0.017	0.004	0.713	14	14	11	7					0.097	0.082	0.050	Light	Light	Moderate
C	HPLZ2	331	0	150	167	0.705	-0.007	0.012	0.700	14	14	11	7	-0.015	0.01	0.008	0	0.100	0.079	0.049	Light	Light	Moderate
A	HPLZ2	332	675	150	167	0.712	-0.017	0.002	0.706	14	14	11	7					0.098	0.081	0.049	Light	Light	Moderate
C	HPLZ2	332	675	150	167	0.708	-0.009	0.003	0.701	13	13	11	7	-0.004	0.008	0.001	-1	0.094	0.077	0.046	Light	Light	Moderate
A	HPLZ2	333	1350	150	167	0.705	-0.015	0.005	0.699	14	14	11	7					0.098	0.078	0.048	Light	Light	Moderate
C	HPLZ2	333	1350	150	167	0.713	-0.014	0.008	0.707	14	14	11	7	0.008	0.001	0.003	0	0.096	0.079	0.047	Light	Light	Moderate
A	HPLZ2	341	0	250	167	0.738	-0.018	0.003	0.730	13	13	11	7					0.092	0.079	0.054	Light	Light	Moderate
C	HPLZ2	341	0	250	167	0.743	-0.01	0.005	0.735	13	13	11	7	0.005	0.008	0.002	0	0.098	0.079	0.055	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	342	675	250	167	0.739	-0.015	0	0.732	13	13	11	8					0.097	0.082	0.055	Light	Light	Moderate
C	HPLZ2	342	675	250	167	0.748	-0.008	0.005	0.741	14	14	11	8	0.009	0.007	0.005	1	0.102	0.084	0.056	Light	Light	Moderate
A	HPLZ2	343	1350	250	167	0.742	-0.01	0.003	0.735	13	13	11	7					0.095	0.083	0.054	Light	Light	Moderate
C	HPLZ2	343	1350	250	167	0.751	-0.017	0.003	0.743	13	13	11	7	0.009	-0.007	0	0	0.097	0.081	0.054	Light	Light	Moderate
A	SLZ1	401	0	25	167	0.543	-0.001	-0.001	0.546	17	17	13	7					0.092	0.070	0.038	Light	Light	Light
C	SLZ1	401	0	25	167	0.535	-0.003	0.001	0.538	16	16	13	7	-0.008	-0.002	0.002	-1	0.084	0.069	0.040	Light	Light	Light
A	SLZ1	402	575	25	167	0.539	-0.013	-0.007	0.543	17	17	13	8					0.091	0.071	0.041	Light	Light	Light
C	SLZ1	402	575	25	167	0.527	-0.003	-0.007	0.532	17	18	13	8	-0.012	0.01	0	0	0.093	0.071	0.041	Light	Light	Light
A	SLZ1	403	1150	25	167	0.534	-0.014	-0.007	0.538	17	17	13	8					0.091	0.071	0.041	Light	Light	Light
C	SLZ1	403	1150	25	167	0.525	-0.013	-0.005	0.529	17	17	13	7	-0.009	0.001	0.002	0	0.089	0.068	0.039	Light	Light	Light
A	SLZ1	411	0	50	167	0.619	-0.008	0.005	0.617	16	16	12	6					0.097	0.074	0.039	Light	Light	Light
C	SLZ1	411	0	50	167	0.619	-0.007	0.004	0.617	16	16	12	6	0	0.001	-0.001	0	0.098	0.074	0.038	Light	Light	Light
A	SLZ1	412	575	50	167	0.625	-0.015	0.001	0.624	16	16	12	6					0.103	0.076	0.038	Light	Light	Light
C	SLZ1	412	575	50	167	0.605	-0.014	0.002	0.605	15	15	12	6	-0.02	0.001	0.001	-1	0.091	0.075	0.039	Light	Light	Light
A	SLZ1	413	1150	50	167	0.621	-0.012	0.003	0.621	16	16	13	6					0.099	0.081	0.040	Light	Light	Light
C	SLZ1	413	1150	50	167	0.631	-0.018	0.002	0.631	17	17	13	6	0.01	-0.006	-0.001	1	0.105	0.082	0.038	Light	Light	Light
A	SLZ1	421	0	100	167	0.675	-0.01	0.01	0.671	14	14	12	6					0.094	0.079	0.043	Light	Light	Light
C	SLZ1	421	0	100	167	0.684	-0.009	0.01	0.679	14	14	12	6	0.009	0.001	0	0	0.096	0.080	0.044	Light	Light	Moderate
A	SLZ1	422	575	100	167	0.688	-0.019	0.004	0.683	15	15	12	6					0.099	0.079	0.044	Light	Light	Moderate
C	SLZ1	422	575	100	167	0.679	-0.018	0.005	0.675	14	14	12	6	-0.009	0.001	0.001	-1	0.097	0.081	0.042	Light	Light	Light
A	SLZ1	423	1150	100	167	0.689	-0.014	0.008	0.684	15	15	12	6					0.100	0.079	0.044	Light	Light	Moderate
C	SLZ1	423	1150	100	167	0.686	-0.025	0.007	0.682	15	15	12	6	-0.003	-0.011	-0.001	0	0.102	0.084	0.042	Light	Light	Light
A	SLZ1	431	0	150	167	0.714	-0.016	0.007	0.708	14	14	11	7					0.097	0.081	0.048	Light	Light	Moderate
C	SLZ1	431	0	150	167	0.698	-0.016	0.009	0.693	14	14	12	7	-0.016	0	0.002	0	0.100	0.081	0.046	Light	Light	Moderate
A	SLZ1	432	575	150	167	0.704	-0.015	0.004	0.698	13	13	11	7					0.089	0.074	0.048	Light	Light	Moderate
C	SLZ1	432	575	150	167	0.705	-0.014	0.005	0.700	14	14	12	7	0.001	0.001	0.001	1	0.097	0.084	0.048	Light	Light	Moderate
A	SLZ1	433	1150	150	167	0.713	-0.02	0.008	0.708	14	14	12	7					0.098	0.084	0.048	Light	Light	Moderate
C	SLZ1	433	1150	150	167	0.703	-0.016	0.005	0.697	15	15	11	7	-0.01	0.004	-0.003	1	0.103	0.076	0.048	Light	Light	Moderate
A	SLZ1	441	0	250	167	0.747	-0.014	0.004	0.740	13	13	11	8					0.097	0.083	0.057	Light	Light	Moderate
C	SLZ1	441	0	250	167	0.741	-0.012	0.008	0.734	13	13	11	8	-0.006	-0.002	0.004	0	0.098	0.083	0.056	Light	Light	Moderate
A	SLZ1	442	575	250	167	0.748	-0.019	0.002	0.740	13	13	11	8					0.095	0.083	0.056	Light	Light	Moderate
C	SLZ1	442	575	250	167	0.747	-0.017	0.003	0.740	13	13	11	8	-0.001	0.002	0.001	0	0.095	0.081	0.056	Light	Light	Moderate
A	SLZ1	443	1150	250	167	0.735	-0.018	0.005	0.729	13	13	12	8					0.098	0.084	0.057	Light	Light	Moderate
C	SLZ1	443	1150	250	167	0.737	-0.015	0.004	0.730	13	13	11	8	0.002	0.003	-0.001	0	0.098	0.080	0.057	Light	Light	Moderate
A	SLZ2	501	0	25	167	0.551	-0.017	-0.005	0.554	17	17	13	7					0.093	0.071	0.039	Light	Light	Light
C	SLZ2	501	0	25	167	0.541	-0.012	-0.003	0.544	16	16	13	7	-0.01	0.005	0.002	-1	0.089	0.071	0.040	Light	Light	Light
A	SLZ2	502	575	25	167	0.553	-0.012	-0.002	0.556	17	17	13	7					0.093	0.071	0.040	Light	Light	Light
C	SLZ2	502	575	25	167	0.538	-0.01	0	0.541	17	17	13	7	-0.015	0.002	0.002	0	0.090	0.069	0.039	Light	Light	Light
A	SLZ2	503	1150	25	167	0.538	-0.016	-0.006	0.542	17	17	13	7					0.090	0.070	0.040	Light	Light	Light
C	SLZ2	503	1150	25	167	0.537	-0.021	-0.008	0.541	16	16	13	8	-0.001	-0.005	-0.002	-1	0.088	0.073	0.041	Light	Light	Light
A	SLZ2	511	0	50	167	0.626	-0.018	0.006	0.625	15	15	12	6					0.096	0.077	0.040	Light	Light	Light
C	SLZ2	511	0	50	167	0.614	-0.021	0.006	0.613	16	16	12	6	-0.012	-0.003	0	1	0.099	0.072	0.039	Light	Light	Light
A	SLZ2	512	575	50	167	0.631	-0.018	0.003	0.629	15	15	12	6					0.093	0.077	0.037	Light	Light	Light
C	SLZ2	512	575	50	167	0.632	-0.02	0.003	0.630	15	15	12	6	0.001	-0.002	0	0	0.095	0.078	0.038	Light	Light	Light
A	SLZ2	513	1150	50	167	0.62	-0.018	-0.001	0.619	16	16	12	6					0.099	0.076	0.040	Light	Light	Light
C	SLZ2	513	1150	50	167	0.611	-0.024	0.002	0.611	17	17	13	7	-0.009	-0.006	0.003	1	0.102	0.078	0.040	Light	Light	Light
A	SLZ2	521	0	100	167	0.678	-0.022	0.01	0.674	14	14	12	6					0.096	0.083	0.043	Light	Light	Light
C	SLZ2	521	0	100	167	0.678	-0.022	0.007	0.673	14	14	11	6	0	0	-0.003	0	0.096	0.076	0.042	Light	Light	Light
A	SLZ2	522	575	100	167	0.676	-0.017	0.006	0.672	15	15	12	6					0.100	0.082	0.043	Light	Light	Light
C	SLZ2	522	575	100	167	0.678	-0.016	0.006	0.674	14	14	12	6	0.002	0.001	0	-1	0.095	0.081	0.043	Light	Light	Light
A	SLZ2	523	1150	100	167	0.677	-0.023	0.007	0.673	14	14	12	6					0.094	0.082	0.043	Light	Light	Light
C	SLZ2	523	1150	100	167	0.671	-0.026	0.006	0.668	15	15	13	6	-0.006	-0.003	-0.001	1	0.098	0.085	0.042	Light	Light	Light
A	SLZ2	531	0	150	167	0.713	-0.019	0.007	0.707	14	14	11	7					0.100	0.079	0.047	Light	Light	Moderate
C	SLZ2	531	0	150	167	0.697	-0.019	0.009	0.692	14	14	11	7	-0.016	0	0.002	0	0.096	0.078	0.047	Light	Light	Moderate
A	SLZ2	532	575	150	167	0.709	-0.016	0.005	0.704	14	14	11	7					0.095	0.081	0.049	Light	Light	Moderate
C	SLZ2	532	575	150	167	0.695	-0.023	0.006	0.690	14	14	11	7	-0.014	-0.007	0.001	0	0.097	0.078	0.047	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	SLZ2	533	1150	150	167	0.694	-0.021	0.004	0.689	14	14	11	7					0.095	0.078	0.048	Light	Light	Moderate
C	SLZ2	533	1150	150	167	0.702	-0.02	0.002	0.697	15	15	12	7	0.008	0.001	-0.002	1	0.102	0.081	0.049	Light	Light	Moderate
A	SLZ2	541	0	250	167	0.747	-0.022	0.004	0.739	14	14	11	8					0.101	0.079	0.056	Light	Light	Moderate
C	SLZ2	541	0	250	167	0.727	-0.017	0.008	0.720	14	14	11	8	-0.02	0.005	0.004	0	0.099	0.079	0.057	Light	Light	Moderate
A	SLZ2	542	575	250	167	0.729	-0.018	0.004	0.722	13	13	11	7					0.093	0.081	0.054	Light	Light	Moderate
C	SLZ2	542	575	250	167	0.739	-0.018	0.002	0.733	13	13	11	7	0.01	0	-0.002	0	0.097	0.083	0.055	Light	Light	Moderate
A	SLZ2	543	1150	250	167	0.736	-0.021	0.002	0.730	14	14	11	7					0.099	0.081	0.054	Light	Light	Moderate
C	SLZ2	543	1150	250	167	0.733	-0.024	0.002	0.727	14	14	11	8	-0.003	-0.003	0	0	0.098	0.082	0.057	Light	Light	Moderate
A	Runway	101	0	25	212	0.644	-0.008	0	0.640	16	16	11	6					0.100	0.071	0.039	Light	Light	Light
C	Runway	101	0	25	212	0.548	0.033	-0.003	0.554	18	18	14	9	-0.096	0.041	-0.003	2	0.098	0.077	0.052	Light	Light	Moderate
A	Runway	102	695	25	212	0.621	-0.015	-0.008	0.619	16	16	11	6					0.097	0.069	0.039	Light	Light	Light
C	Runway	102	695	25	212	0.559	0.035	-0.015	0.563	17	17	13	8	-0.062	0.05	-0.007	1	0.098	0.071	0.045	Light	Light	Moderate
A	Runway	103	1389	25	212	0.586	-0.008	-0.003	0.586	16	16	12	7					0.092	0.068	0.038	Light	Light	Light
C	Runway	103	1389	25	212	0.552	0.017	-0.003	0.555	18	18	13	7	-0.034	0.025	0	2	0.098	0.073	0.042	Light	Light	Light
A	Runway	104	2064	25	212	0.563	-0.002	0	0.565	17	17	13	7					0.098	0.074	0.042	Light	Light	Light
C	Runway	104	2064	25	212	0.472	-0.021	0.005	0.487	22	23	19	10	-0.091	-0.019	0.005	5	0.110	0.094	0.050	Light	Light	Moderate
A	Runway	105	2739	25	212	0.525	0.002	0.001	0.530	17	18	13	8					0.093	0.069	0.043	Light	Light	Light
C	Runway	105	2739	25	212	0.526	0.002	0.002	0.531	17	18	13	8	0.001	0	0.001	0	0.094	0.071	0.043	Light	Light	Light
A	Runway	106	3300	25	212	0.519	0.097	-0.011	0.533	17	18	13	8					0.094	0.067	0.045	Light	Light	Moderate
C	Runway	106	3300	25	212	0.418	0.033	-0.011	0.436	20	22	18	12	-0.101	-0.064	0	3	0.094	0.077	0.053	Light	Light	Moderate
A	Runway	107	3875	25	212	0.51	0.009	-0.008	0.514	18	18	11	8					0.093	0.058	0.043	Light	-	-
C	Runway	107	3875	25	212	0.434	-0.018	-0.002	0.448	20	21	17	11	-0.076	-0.027	0.006	2	0.096	0.075	0.049	Light	Light	Moderate
A	Runway	108	4450	25	212	0.532	-0.007	-0.012	0.536	17	18	12	8					0.094	0.065	0.042	Light	Light	Light
C	Runway	108	4450	25	212	0.523	0.002	-0.014	0.527	17	17	12	8	-0.009	0.009	-0.002	0	0.092	0.065	0.042	Light	Light	Light
A	Runway	111	0	50	212	0.672	-0.01	0.001	0.667	15	15	11	7					0.101	0.072	0.044	Light	Light	Moderate
C	Runway	111	0	50	212	0.612	0.017	-0.012	0.612	17	17	12	8	-0.06	0.027	-0.013	2	0.105	0.072	0.049	Light	Light	Moderate
A	Runway	112	695	50	212	0.659	-0.008	-0.004	0.655	15	15	11	6					0.100	0.073	0.041	Light	Light	Light
C	Runway	112	695	50	212	0.595	0.022	-0.016	0.597	17	17	13	8	-0.064	0.03	-0.012	2	0.101	0.076	0.047	Light	Light	Moderate
A	Runway	113	1389	50	212	0.646	-0.009	0.001	0.643	15	15	11	6					0.097	0.071	0.042	Light	Light	Light
C	Runway	113	1389	50	212	0.605	0.003	-0.006	0.604	17	17	12	8	-0.041	0.012	-0.007	2	0.102	0.073	0.046	Light	Light	Moderate
A	Runway	114	2064	50	212	0.619	-0.011	0.002	0.619	17	17	13	7					0.105	0.079	0.046	Light	Light	Moderate
C	Runway	114	2064	50	212	0.525	-0.019	-0.002	0.536	22	23	17	10	-0.094	-0.008	-0.004	5	0.122	0.093	0.056	Light	Light	Moderate
A	Runway	115	2739	50	212	0.592	-0.006	0.001	0.593	17	17	11	8					0.099	0.067	0.046	Light	Light	Moderate
C	Runway	115	2739	50	212	0.588	-0.01	-0.002	0.588	17	17	11	8	-0.004	-0.004	-0.003	0	0.103	0.066	0.046	Light	Light	Moderate
A	Runway	116	3300	50	212	0.549	0.045	-0.033	0.556	21	21	12	9					0.118	0.064	0.051	Light	Light	Moderate
C	Runway	116	3300	50	212	0.489	0.006	-0.028	0.500	20	20	14	11	-0.06	-0.039	0.005	-1	0.102	0.071	0.056	Light	Light	Moderate
A	Runway	117	3875	50	212	0.615	-0.007	-0.014	0.614	16	16	12	7					0.097	0.075	0.040	Light	Light	Light
C	Runway	117	3875	50	212	0.501	-0.012	-0.015	0.510	20	20	14	11	-0.114	-0.005	-0.001	4	0.104	0.073	0.054	Light	Light	Moderate
A	Runway	118	4450	50	212	0.62	-0.015	-0.007	0.619	16	16	12	7					0.100	0.074	0.041	Light	Light	Light
C	Runway	118	4450	50	212	0.623	-0.006	-0.008	0.622	17	17	12	7	0.003	0.009	-0.001	1	0.103	0.074	0.042	Light	Light	Light
A	Runway	121	0	100	212	0.721	-0.009	-0.001	0.714	14	14	11	7					0.101	0.078	0.048	Light	Light	Moderate
C	Runway	121	0	100	212	0.695	-0.001	-0.012	0.689	15	15	11	7	-0.026	0.008	-0.011	1	0.102	0.073	0.048	Light	Light	Moderate
A	Runway	122	695	100	212	0.704	-0.006	-0.002	0.697	14	14	11	7					0.095	0.076	0.047	Light	Light	Moderate
C	Runway	122	695	100	212	0.675	0.002	-0.019	0.670	15	16	11	7	-0.029	0.008	-0.017	1	0.104	0.073	0.047	Light	Light	Moderate
A	Runway	123	1389	100	212	0.705	-0.008	0.002	0.699	14	14	11	6					0.096	0.078	0.045	Light	Light	Moderate
C	Runway	123	1389	100	212	0.65	0.001	-0.009	0.648	16	16	12	8	-0.055	0.009	-0.011	2	0.103	0.077	0.050	Light	Light	Moderate
A	Runway	124	2064	100	212	0.682	-0.021	-0.004	0.677	16	16	11	7					0.105	0.076	0.047	Light	Light	Moderate
C	Runway	124	2064	100	212	0.607	0	-0.016	0.609	20	20	13	8	-0.075	0.021	-0.012	4	0.120	0.081	0.050	Light	Light	Moderate
A	Runway	125	2739	100	212	0.673	-0.009	-0.002	0.669	15	15	12	6					0.098	0.078	0.043	Light	Light	Light
C	Runway	125	2739	100	212	0.667	-0.011	-0.003	0.663	15	15	10	7	-0.006	-0.002	-0.001	0	0.098	0.069	0.044	Light	Light	Moderate
A	Runway	126	3300	100	212	0.637	-0.016	-0.036	0.637	18	18	12	7					0.113	0.078	0.047	Light	Light	Moderate
C	Runway	126	3300	100	212	0.609	-0.031	-0.031	0.611	18	18	13	8	-0.028	-0.015	0.005	0	0.110	0.080	0.051	Light	Light	Moderate
A	Runway	127	3875	100	212	0.69	-0.009	-0.001	0.685	14	14	11	6					0.095	0.079	0.043	Light	Light	Light
C	Runway	127	3875	100	212	0.603	-0.012	-0.015	0.606	19	19	14	9	-0.087	-0.003	-0.014	5	0.117	0.085	0.053	Light	Light	Moderate
A	Runway	128	4450	100	212	0.686	-0.018	0.002	0.681	15	15	12	6					0.099	0.078	0.043	Light	Light	Light
C	Runway	128	4450	100	212	0.691	-0.005	0.002	0.686	16	16	12	6	0.005	0.013	0	1	0.106	0.083	0.042	Light	Light	Light

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (%) [UVW]	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (%) [UVW]	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	131	0	150	212	0.761	-0.008	-0.004	0.752	13	13	11	7					0.101	0.081	0.049	Light	Light	Moderate
C	Runway	131	0	150	212	0.731	-0.016	-0.009	0.723	13	13	11	7	-0.03	-0.008	-0.005	0	0.097	0.076	0.049	Light	Light	Moderate
A	Runway	132	695	150	212	0.73	-0.011	-0.001	0.722	14	13	11	7					0.097	0.079	0.049	Light	Light	Moderate
C	Runway	132	695	150	212	0.719	-0.006	-0.019	0.713	15	15	11	7	-0.011	0.005	-0.018	1	0.110	0.078	0.049	Light	Light	Moderate
A	Runway	133	1389	150	212	0.74	-0.008	-0.001	0.732	14	14	11	7					0.099	0.079	0.048	Light	Light	Moderate
C	Runway	133	1389	150	212	0.709	-0.009	-0.01	0.703	16	16	12	7	-0.031	-0.001	-0.009	2	0.111	0.082	0.052	Light	Light	Moderate
A	Runway	134	2064	150	212	0.713	-0.014	-0.003	0.706	14	14	11	7					0.101	0.078	0.046	Light	Light	Moderate
C	Runway	134	2064	150	212	0.675	-0.003	-0.014	0.672	18	18	12	8	-0.038	0.011	-0.011	4	0.119	0.082	0.051	Light	Light	Moderate
A	Runway	135	2739	150	212	0.71	-0.01	0.004	0.703	15	15	11	7					0.103	0.077	0.047	Light	Light	Moderate
C	Runway	135	2739	150	212	0.713	-0.01	-0.006	0.706	14	14	11	7	0.003	0	-0.01	-1	0.101	0.078	0.049	Light	Light	Moderate
A	Runway	136	3300	150	212	0.709	-0.018	-0.02	0.704	14	14	12	7					0.101	0.083	0.046	Light	Light	Moderate
C	Runway	136	3300	150	212	0.665	-0.023	-0.025	0.663	16	16	12	7	-0.044	-0.005	-0.005	2	0.105	0.081	0.049	Light	Light	Moderate
A	Runway	137	3875	150	212	0.715	-0.009	-0.005	0.708	14	13	11	7					0.095	0.079	0.048	Light	Light	Moderate
C	Runway	137	3875	150	212	0.664	-0.002	-0.009	0.662	18	18	13	8	-0.051	0.007	-0.004	4	0.118	0.085	0.056	Light	Light	Moderate
A	Runway	138	4450	150	212	0.711	-0.021	0.003	0.704	14	14	11	7					0.099	0.077	0.047	Light	Light	Moderate
C	Runway	138	4450	150	212	0.711	-0.018	0.001	0.704	13	13	11	7	0	0.003	-0.002	-1	0.092	0.074	0.047	Light	Light	Moderate
A	Runway	141	0	250	212	0.796	-0.009	-0.007	0.785	13	13	11	7					0.101	0.084	0.056	Light	Light	Moderate
C	Runway	141	0	250	212	0.781	-0.017	-0.009	0.771	13	13	10	7	-0.015	-0.008	-0.002	0	0.098	0.079	0.053	Light	Light	Moderate
A	Runway	142	695	250	212	0.766	-0.014	-0.002	0.757	13	13	10	7					0.098	0.077	0.054	Light	Light	Moderate
C	Runway	142	695	250	212	0.756	-0.006	-0.015	0.747	14	14	11	7	-0.01	0.008	-0.013	1	0.104	0.080	0.055	Light	Light	Moderate
A	Runway	143	1389	250	212	0.775	-0.012	-0.002	0.765	13	13	11	7					0.101	0.083	0.054	Light	Light	Moderate
C	Runway	143	1389	250	212	0.754	-0.01	-0.015	0.745	14	14	11	7	-0.021	0.002	-0.013	1	0.103	0.081	0.054	Light	Light	Moderate
A	Runway	144	2064	250	212	0.761	-0.015	-0.006	0.753	12	12	11	7					0.092	0.080	0.054	Light	Light	Moderate
C	Runway	144	2064	250	212	0.738	-0.002	-0.008	0.731	14	14	11	8	-0.023	0.013	-0.002	2	0.102	0.083	0.056	Light	Light	Moderate
A	Runway	145	2739	250	212	0.752	-0.012	0.002	0.744	13	13	11	7					0.100	0.081	0.055	Light	Light	Moderate
C	Runway	145	2739	250	212	0.744	-0.015	-0.005	0.736	14	14	11	7	-0.008	-0.003	-0.007	1	0.099	0.078	0.051	Light	Light	Moderate
A	Runway	146	3300	250	212	0.731	-0.024	-0.006	0.725	14	13	12	8					0.098	0.084	0.055	Light	Light	Moderate
C	Runway	146	3300	250	212	0.722	-0.015	-0.016	0.716	14	14	11	7	-0.009	0.009	-0.01	0	0.101	0.080	0.050	Light	Light	Moderate
A	Runway	147	3875	250	212	0.735	-0.02	-0.001	0.727	13	13	11	8					0.094	0.077	0.055	Light	Light	Moderate
C	Runway	147	3875	250	212	0.718	-0.001	-0.006	0.711	14	14	11	7	-0.017	0.019	-0.005	1	0.097	0.076	0.053	Light	Light	Moderate
A	Runway	148	4450	250	212	0.748	-0.02	0.002	0.741	14	14	11	7					0.101	0.081	0.055	Light	Light	Moderate
C	Runway	148	4450	250	212	0.75	-0.015	0.001	0.742	13	13	11	8	0.002	0.005	-0.001	-1	0.096	0.078	0.056	Light	Light	Moderate
A	HPLZ1	201	0	25	212	0.593	-0.008	-0.012	0.592	16	16	12	7					0.095	0.071	0.040	Light	Light	Light
C	HPLZ1	201	0	25	212	0.557	-0.004	-0.009	0.560	18	18	13	8	-0.036	0.004	0.003	2	0.099	0.074	0.043	Light	Light	Light
A	HPLZ1	202	675	25	212	0.555	-0.017	-0.004	0.557	17	17	12	7					0.095	0.068	0.041	Light	Light	Light
C	HPLZ1	202	675	25	212	0.489	-0.021	0	0.501	21	21	18	9	-0.066	-0.004	0.004	4	0.107	0.089	0.046	Light	Light	Moderate
A	HPLZ1	203	1350	25	212	0.495	0.021	0.01	0.505	20	19	17	9					0.098	0.088	0.045	Light	Light	Moderate
C	HPLZ1	203	1350	25	212	0.47	-0.003	0.001	0.480	19	19	16	10	-0.025	-0.024	-0.009	-1	0.094	0.076	0.047	Light	Light	Moderate
A	HPLZ1	211	0	50	212	0.642	-0.012	-0.001	0.639	15	15	12	7					0.098	0.074	0.042	Light	Light	Light
C	HPLZ1	211	0	50	212	0.609	-0.01	-0.009	0.609	17	17	12	7	-0.033	0.002	-0.008	2	0.104	0.075	0.045	Light	Light	Moderate
A	HPLZ1	212	675	50	212	0.613	-0.011	-0.004	0.612	17	17	12	7					0.104	0.076	0.044	Light	Light	Moderate
C	HPLZ1	212	675	50	212	0.524	-0.01	0	0.532	20	21	15	10	-0.089	0.001	0.004	3	0.110	0.081	0.051	Light	Light	Moderate
A	HPLZ1	213	1350	50	212	0.533	0.011	0.015	0.540	20	20	16	10					0.109	0.086	0.055	Light	Light	Moderate
C	HPLZ1	213	1350	50	212	0.525	-0.012	0.002	0.531	19	19	14	10	-0.008	-0.023	-0.013	-1	0.100	0.073	0.051	Light	Light	Moderate
A	HPLZ1	221	0	100	212	0.691	-0.007	-0.003	0.686	15	14	12	6					0.099	0.081	0.044	Light	Light	Moderate
C	HPLZ1	221	0	100	212	0.656	-0.01	-0.009	0.653	17	17	11	8	-0.035	-0.003	-0.006	2	0.110	0.074	0.050	Light	Light	Moderate
A	HPLZ1	222	675	100	212	0.667	-0.016	-0.001	0.663	17	17	12	7					0.112	0.079	0.048	Light	Light	Moderate
C	HPLZ1	222	675	100	212	0.612	0.005	-0.007	0.613	20	20	13	9	-0.055	0.021	-0.006	3	0.124	0.078	0.054	Light	Light	Moderate
A	HPLZ1	223	1350	100	212	0.608	-0.023	0.002	0.610	19	19	13	9					0.115	0.080	0.056	Light	Light	Moderate
C	HPLZ1	223	1350	100	212	0.629	-0.024	-0.011	0.629	18	18	12	8	0.021	-0.001	-0.013	-1	0.114	0.076	0.052	Light	Light	Moderate
A	HPLZ1	231	0	150	212	0.726	-0.012	-0.005	0.719	14	14	11	7					0.099	0.080	0.049	Light	Light	Moderate
C	HPLZ1	231	0	150	212	0.673	-0.007	-0.008	0.669	16	16	12	8	-0.053	0.005	-0.003	2	0.105	0.079	0.051	Light	Light	Moderate
A	HPLZ1	232	675	150	212	0.716	-0.013	-0.004	0.709	14	14	12	7					0.101	0.083	0.047	Light	Light	Moderate
C	HPLZ1	232	675	150	212	0.675	-0.002	-0.011	0.671	16	16	12	8	-0.041	0.011	-0.007	2	0.107	0.078	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	212	0.698	-0.03	-0.002	0.694	17	17	12	7					0.116	0.083	0.050	Light	Light	Moderate
C	HPLZ1	233	1350	150	212	0.678	-0.024	-0.008	0.674	15	15	11	8	-0.02	0.006	-0.006	-2	0.102	0.074	0.051	Light	Light	Moderate

Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (% [UVW])	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	HPLZ1	241	0	250	212	0.767	-0.015	-0.006	0.758	13	13	11	7					0.096	0.080	0.055	Light	Light	Moderate
C	HPLZ1	241	0	250	212	0.726	-0.004	-0.006	0.720	14	14	11	8	-0.041	0.011	0	1	0.103	0.080	0.056	Light	Light	Moderate
A	HPLZ1	242	675	250	212	0.762	-0.011	-0.006	0.753	13	13	11	7					0.094	0.081	0.053	Light	Light	Moderate
C	HPLZ1	242	675	250	212	0.743	-0.008	-0.008	0.736	14	14	11	7	-0.019	0.003	-0.002	1	0.103	0.083	0.055	Light	Light	Moderate
A	HPLZ1	243	1350	250	212	0.746	-0.025	-0.002	0.738	14	13	11	7					0.100	0.080	0.052	Light	Light	Moderate
C	HPLZ1	243	1350	250	212	0.749	-0.018	-0.012	0.741	13	13	11	7	0.003	0.007	-0.01	-1	0.098	0.081	0.053	Light	Light	Moderate
A	HPLZ2	301	0	25	212	0.595	-0.007	-0.002	0.595	16	16	12	7					0.093	0.071	0.039	Light	Light	Light
C	HPLZ2	301	0	25	212	0.545	-0.018	0.004	0.550	18	18	14	8	-0.05	-0.011	0.006	2	0.099	0.080	0.043	Light	Light	Light
A	HPLZ2	302	675	25	212	0.538	-0.008	-0.01	0.542	17	17	14	8					0.093	0.074	0.042	Light	Light	Light
C	HPLZ2	302	675	25	212	0.518	-0.007	-0.008	0.524	19	19	14	8	-0.02	0.001	0.002	2	0.101	0.072	0.044	Light	Light	Moderate
A	HPLZ2	303	1350	25	212	0.454	-0.006	0.006	0.471	20	21	20	13					0.098	0.092	0.062	Light	Light	Moderate
C	HPLZ2	303	1350	25	212	0.431	-0.024	0.001	0.450	22	23	20	13	-0.023	-0.018	-0.005	2	0.104	0.089	0.060	Light	Light	Moderate
A	HPLZ2	311	0	50	212	0.636	-0.011	-0.001	0.633	15	15	12	7					0.095	0.075	0.041	Light	Light	Light
C	HPLZ2	311	0	50	212	0.585	-0.015	0.003	0.588	18	18	14	8	-0.051	-0.004	0.004	3	0.105	0.083	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	212	0.596	-0.013	-0.001	0.596	17	17	12	8					0.101	0.071	0.045	Light	Light	Moderate
C	HPLZ2	312	675	50	212	0.589	-0.006	-0.004	0.590	17	18	12	8	-0.007	0.007	-0.003	0	0.104	0.071	0.048	Light	Light	Moderate
A	HPLZ2	313	1350	50	212	0.529	0.011	-0.022	0.538	20	20	16	11					0.108	0.084	0.061	Light	Light	Moderate
C	HPLZ2	313	1350	50	212	0.497	-0.009	-0.022	0.509	22	23	17	11	-0.032	-0.02	0	2	0.118	0.085	0.057	Light	Light	Moderate
A	HPLZ2	321	0	100	212	0.68	-0.012	-0.001	0.675	15	15	12	7					0.099	0.078	0.047	Light	Light	Moderate
C	HPLZ2	321	0	100	212	0.642	-0.015	0	0.641	18	18	13	8	-0.038	-0.003	0.001	3	0.116	0.085	0.051	Light	Light	Moderate
A	HPLZ2	322	675	100	212	0.651	-0.01	0	0.648	17	17	11	7					0.108	0.074	0.047	Light	Light	Moderate
C	HPLZ2	322	675	100	212	0.651	-0.007	-0.008	0.648	16	17	10	8	0	0.003	-0.008	-1	0.108	0.067	0.049	Light	Light	Moderate
A	HPLZ2	323	1350	100	212	0.658	0	-0.018	0.655	17	17	11	7					0.109	0.074	0.047	Light	Light	Moderate
C	HPLZ2	323	1350	100	212	0.626	-0.018	-0.022	0.625	18	18	12	8	-0.032	-0.018	-0.004	1	0.111	0.076	0.048	Light	Light	Moderate
A	HPLZ2	331	0	150	212	0.727	-0.015	-0.002	0.720	14	14	11	6					0.098	0.081	0.047	Light	Light	Moderate
C	HPLZ2	331	0	150	212	0.691	-0.005	-0.002	0.688	17	17	13	8	-0.036	0.01	0	3	0.119	0.089	0.053	Light	Light	Moderate
A	HPLZ2	332	675	150	212	0.712	-0.011	-0.003	0.705	14	14	11	7					0.101	0.075	0.047	Light	Light	Moderate
C	HPLZ2	332	675	150	212	0.695	-0.007	-0.007	0.689	15	15	11	7	-0.017	0.004	-0.004	1	0.102	0.073	0.050	Light	Light	Moderate
A	HPLZ2	333	1350	150	212	0.706	-0.014	-0.015	0.700	15	15	11	7					0.103	0.080	0.048	Light	Light	Moderate
C	HPLZ2	333	1350	150	212	0.675	-0.017	-0.017	0.671	16	16	11	8	-0.031	-0.003	-0.002	1	0.105	0.077	0.053	Light	Light	Moderate
A	HPLZ2	341	0	250	212	0.757	-0.018	-0.002	0.748	13	13	11	7					0.101	0.080	0.054	Light	Light	Moderate
C	HPLZ2	341	0	250	212	0.731	-0.01	0.001	0.724	15	15	11	8	-0.026	0.008	0.003	2	0.108	0.082	0.056	Light	Light	Moderate
A	HPLZ2	342	675	250	212	0.747	-0.015	-0.001	0.739	13	13	11	7					0.094	0.079	0.053	Light	Light	Moderate
C	HPLZ2	342	675	250	212	0.74	-0.015	-0.007	0.733	14	14	11	7	-0.007	0	-0.006	1	0.100	0.079	0.052	Light	Light	Moderate
A	HPLZ2	343	1350	250	212	0.741	-0.023	-0.007	0.735	14	14	12	7					0.101	0.086	0.055	Light	Light	Moderate
C	HPLZ2	343	1350	250	212	0.751	-0.014	-0.019	0.743	14	14	11	7	0.01	0.009	-0.012	0	0.104	0.083	0.052	Light	Light	Moderate
A	SLZ1	401	0	25	212	0.547	-0.01	0	0.550	18	19	13	7					0.103	0.074	0.041	Light	Light	Light
C	SLZ1	401	0	25	212	0.472	-0.031	0.007	0.484	20	20	16	9	-0.075	-0.021	0.007	2	0.098	0.078	0.044	Light	Light	Moderate
A	SLZ1	402	575	25	212	0.525	-0.004	-0.007	0.530	18	18	14	8					0.095	0.074	0.043	Light	Light	Light
C	SLZ1	402	575	25	212	0.476	-0.017	-0.002	0.489	20	20	18	9	-0.049	-0.013	0.005	2	0.099	0.087	0.046	Light	Light	Moderate
A	SLZ1	403	1150	25	212	0.564	-0.007	-0.013	0.566	17	17	12	7					0.096	0.070	0.042	Light	Light	Light
C	SLZ1	403	1150	25	212	0.546	-0.002	-0.016	0.548	17	17	12	7	-0.018	0.005	-0.003	0	0.092	0.064	0.041	Light	Light	Light
A	SLZ1	411	0	50	212	0.616	-0.015	0	0.615	17	17	11	7					0.104	0.069	0.042	Light	Light	Light
C	SLZ1	411	0	50	212	0.535	-0.023	-0.001	0.541	20	20	15	9	-0.081	-0.008	-0.001	3	0.109	0.081	0.050	Light	Light	Moderate
A	SLZ1	412	575	50	212	0.602	-0.004	-0.003	0.602	16	16	13	7					0.099	0.075	0.042	Light	Light	Light
C	SLZ1	412	575	50	212	0.549	-0.014	0.003	0.555	20	21	15	9	-0.053	-0.01	0.006	4	0.115	0.081	0.050	Light	Light	Moderate
A	SLZ1	413	1150	50	212	0.635	-0.008	-0.005	0.632	15	15	11	6					0.097	0.068	0.038	Light	Light	Light
C	SLZ1	413	1150	50	212	0.649	-0.016	-0.007	0.646	15	15	11	6	0.014	-0.008	-0.002	0	0.098	0.074	0.040	Light	Light	Light
A	SLZ1	421	0	100	212	0.678	-0.006	-0.003	0.672	14	14	11	6					0.094	0.075	0.042	Light	Light	Light
C	SLZ1	421	0	100	212	0.601	-0.026	-0.007	0.603	19	19	13	9	-0.077	-0.02	-0.004	5	0.114	0.080	0.052	Light	Light	Moderate
A	SLZ1	422	575	100	212	0.691	-0.012	-0.002	0.686	15	14	13	6					0.099	0.087	0.044	Light	Light	Moderate
C	SLZ1	422	575	100	212	0.636	-0.006	0.001	0.635	19	20	12	8	-0.055	0.006	0.003	4	0.125	0.078	0.048	Light	Light	Moderate
A	SLZ1	423	1150	100	212	0.692	-0.021	0.002	0.687	14	14	12	6					0.094	0.081	0.041	Light	Light	Light
C	SLZ1	423	1150	100	212	0.689	-0.017	-0.002	0.683	15	15	12	6	-0.003	0.004	-0.004	1	0.100	0.080	0.042	Light	Light	Light
A	SLZ1	431	0	150	212	0.72	-0.013	-0.002	0.713	14	14	11	6					0.097	0.081	0.046	Light	Light	Moderate
C	SLZ1	431	0	150	212	0.659	-0.014	-0.009	0.658	17	18	13	8	-0.061	-0.001	-0.007	3	0.115	0.085	0.054	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification					
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (% [UVW])	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W			
A	SLZ1	432	575	150	212	0.721	-0.019	0	0.715	14	14	12	7											Light	Light	Moderate
C	SLZ1	432	575	150	212	0.681	-0.011	0.001	0.677	17	17	11	8	-0.04	0.008	0.001	3	0.113	0.075	0.052	Light	Light	Moderate			
A	SLZ1	433	1150	150	212	0.729	-0.017	0	0.722	13	13	11	7										Light	Light	Moderate	
C	SLZ1	433	1150	150	212	0.722	-0.016	0.001	0.715	15	15	11	7	-0.007	0.001	0.001	2	0.104	0.078	0.048	Light	Light	Moderate			
A	SLZ1	441	0	250	212	0.74	-0.013	-0.001	0.733	13	13	11	7										Light	Light	Moderate	
C	SLZ1	441	0	250	212	0.726	-0.013	-0.008	0.720	14	14	12	8	-0.014	0	-0.007	1	0.103	0.087	0.055	Light	Light	Moderate			
A	SLZ1	442	575	250	212	0.737	-0.018	-0.002	0.729	13	13	10	8										Light	Light	Moderate	
C	SLZ1	442	575	250	212	0.73	-0.009	0.001	0.723	14	14	11	8	-0.007	0.009	0.003	1	0.099	0.076	0.057	Light	Light	Moderate			
A	SLZ1	443	1150	250	212	0.763	-0.013	-0.004	0.754	13	13	11	8										Light	Light	Moderate	
C	SLZ1	443	1150	250	212	0.765	-0.017	-0.005	0.756	13	13	10	8	0.002	-0.004	-0.001	0	0.095	0.078	0.057	Light	Light	Moderate			
A	SLZ2	501	0	25	212	0.55	-0.012	-0.005	0.553	16	16	13	7										Light	Light	Moderate	
C	SLZ2	501	0	25	212	0.506	-0.026	0.001	0.515	20	20	16	9	-0.044	-0.014	0.006	4	0.103	0.080	0.044	Light	Light	Moderate			
A	SLZ2	502	575	25	212	0.558	-0.005	-0.009	0.560	16	16	12	7										Light	Light	Moderate	
C	SLZ2	502	575	25	212	0.543	-0.005	-0.008	0.546	17	17	12	7	-0.015	0	0.001	1	0.093	0.067	0.040	Light	Light	Moderate			
A	SLZ2	503	1150	25	212	0.583	-0.011	-0.008	0.584	16	16	12	7										Light	Light	Moderate	
C	SLZ2	503	1150	25	212	0.576	-0.014	-0.012	0.577	16	16	12	7	-0.007	-0.003	-0.004	0	0.092	0.068	0.039	Light	Light	Moderate			
A	SLZ2	511	0	50	212	0.625	-0.009	0	0.623	16	16	11	7										Light	Light	Moderate	
C	SLZ2	511	0	50	212	0.566	-0.02	0.002	0.571	19	19	14	9	-0.059	-0.011	0.002	3	0.106	0.083	0.050	Light	Light	Moderate			
A	SLZ2	512	575	50	212	0.634	-0.006	-0.003	0.631	16	16	11	6										Light	Light	Moderate	
C	SLZ2	512	575	50	212	0.619	-0.009	-0.002	0.618	16	16	12	7	-0.015	-0.003	0.001	0	0.102	0.075	0.042	Light	Light	Moderate			
A	SLZ2	513	1150	50	212	0.651	-0.013	-0.004	0.647	15	15	12	6										Light	Light	Moderate	
C	SLZ2	513	1150	50	212	0.65	-0.011	-0.004	0.647	15	15	12	6	-0.001	0.002	0	0	0.099	0.075	0.039	Light	Light	Moderate			
A	SLZ2	521	0	100	212	0.679	-0.006	0.002	0.674	15	15	11	6										Light	Light	Moderate	
C	SLZ2	521	0	100	212	0.628	-0.012	-0.002	0.628	18	18	13	8	-0.051	-0.006	-0.004	3	0.114	0.084	0.051	Light	Light	Moderate			
A	SLZ2	522	575	100	212	0.694	-0.011	-0.002	0.688	14	14	11	6										Light	Light	Moderate	
C	SLZ2	522	575	100	212	0.69	-0.014	-0.002	0.684	15	15	11	6	-0.004	-0.003	0	1	0.105	0.077	0.043	Light	Light	Moderate			
A	SLZ2	523	1150	100	212	0.704	-0.02	0.004	0.698	14	14	11	6										Light	Light	Moderate	
C	SLZ2	523	1150	100	212	0.707	-0.014	0.001	0.701	15	15	12	6	0.003	0.006	-0.003	1	0.104	0.081	0.042	Light	Light	Moderate			
A	SLZ2	531	0	150	212	0.712	-0.012	0	0.706	14	14	11	7										Light	Light	Moderate	
C	SLZ2	531	0	150	212	0.677	-0.015	-0.003	0.674	16	16	13	8	-0.035	-0.003	-0.003	2	0.110	0.084	0.053	Light	Light	Moderate			
A	SLZ2	532	575	150	212	0.729	-0.014	-0.003	0.722	14	14	11	7										Light	Light	Moderate	
C	SLZ2	532	575	150	212	0.706	-0.013	0.003	0.700	15	15	11	7	-0.023	0.001	0.006	1	0.103	0.077	0.050	Light	Light	Moderate			
A	SLZ2	533	1150	150	212	0.737	-0.016	0	0.729	14	14	11	7										Light	Light	Moderate	
C	SLZ2	533	1150	150	212	0.737	-0.008	0	0.729	13	13	11	7	0	0.008	0	-1	0.094	0.080	0.049	Light	Light	Moderate			
A	SLZ2	541	0	250	212	0.742	-0.016	0	0.734	13	13	11	8										Light	Light	Moderate	
C	SLZ2	541	0	250	212	0.726	-0.008	0	0.719	15	15	11	8	-0.016	0.008	0	2	0.105	0.082	0.057	Light	Light	Moderate			
A	SLZ2	542	575	250	212	0.748	-0.014	-0.001	0.740	13	13	11	8										Light	Light	Moderate	
C	SLZ2	542	575	250	212	0.752	-0.016	-0.002	0.744	13	13	10	8	0.004	-0.002	-0.001	0	0.099	0.076	0.058	Light	Light	Moderate			
A	SLZ2	543	1150	250	212	0.772	-0.016	-0.005	0.763	13	13	11	8										Light	Light	Moderate	
C	SLZ2	543	1150	250	212	0.748	-0.023	0	0.740	14	14	11	8	-0.024	-0.007	0.005	1	0.101	0.080	0.059	Light	Light	Moderate			
A	Runway	101	0	25	234.5	0.615	-0.01	0.007	0.615	18	18	13	7										Light	Light	Moderate	
C	Runway	101	0	25	234.5	0.577	-0.011	0.009	0.581	21	21	15	8	-0.038	-0.001	0.002	3	0.122	0.084	0.048	Light	Light	Moderate			
A	Runway	102	695	25	234.5	0.598	-0.009	-0.002	0.598	17	17	12	7										Light	Light	Moderate	
C	Runway	102	695	25	234.5	0.458	0.05	-0.016	0.476	21	22	18	11	-0.14	0.059	-0.014	4	0.103	0.086	0.054	Light	Light	Moderate			
A	Runway	103	1389	25	234.5	0.597	-0.007	-0.003	0.597	16	16	13	7										Light	Light	Moderate	
C	Runway	103	1389	25	234.5	0.519	0.049	-0.007	0.527	19	19	14	8	-0.078	0.056	-0.004	3	0.100	0.076	0.044	Light	Light	Moderate			
A	Runway	104	2064	25	234.5	0.587	-0.009	-0.001	0.588	16	16	13	7										Light	Light	Moderate	
C	Runway	104	2064	25	234.5	0.549	-0.009	-0.003	0.553	17	17	14	8	-0.038	0	-0.002	1	0.096	0.076	0.042	Light	Light	Moderate			
A	Runway	105	2739	25	234.5	0.518	0.007	-0.001	0.524	19	19	14	8										Light	Light	Moderate	
C	Runway	105	2739	25	234.5	0.422	-0.022	0.013	0.440	21	22	19	11	-0.096	-0.029	0.014	2	0.097	0.085	0.049	Light	Light	Moderate			
A	Runway	106	3300	25	234.5	0.264	0.027	0.007	0.340	26	38	39	25										Light	Light	Severe	
C	Runway	106	3300	25	234.5	0.296	0.033	-0.002	0.356	26	35	32	23	0.032	0.006	-0.009	0	0.123	0.115	0.082	Light	Light	Severe			
A	Runway	107	3875	25	234.5	0.45	-0.017	0.002	0.466	23	24	19	11										Light	Light	Moderate	
C	Runway	107	3875	25	234.5	0.373	-0.01	0.016	0.409	25	28	30	15	-0.077	0.007	0.014	2	0.116	0.121	0.060	Light	Light	Moderate			
A	Runway	108	4450	25	234.5	0.546	0.002	-0.014	0.549	17	17	12	8										Light	Light	Moderate	
C	Runway	108	4450	25	234.5	0.465	-0.019	0.003	0.481	22	23	19	11	-0.081	-0.021	0.017	5	0.110	0.093	0.051	Light	Light	Moderate			

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])													
A	Runway	111	0	50	234.5	0.65	-0.016	0.002	0.647	17	17	12	8					0.111	0.075	0.049	Light	Light	Moderate
C	Runway	111	0	50	234.5	0.591	-0.002	0.007	0.593	20	20	13	9	-0.059	0.014	0.005	3	0.121	0.077	0.052	Light	Light	Moderate
A	Runway	112	695	50	234.5	0.636	-0.007	-0.002	0.633	17	17	12	7					0.107	0.075	0.046	Light	Light	Moderate
C	Runway	112	695	50	234.5	0.535	0.032	-0.023	0.544	20	20	15	9	-0.101	0.039	-0.021	3	0.110	0.084	0.051	Light	Light	Moderate
A	Runway	113	1389	50	234.5	0.627	-0.009	0.002	0.625	17	16	12	7					0.102	0.074	0.043	Light	Light	Light
C	Runway	113	1389	50	234.5	0.578	0.032	-0.013	0.582	18	18	13	8	-0.049	0.041	-0.015	1	0.103	0.077	0.048	Light	Light	Moderate
A	Runway	114	2064	50	234.5	0.639	-0.003	0.001	0.636	16	16	12	6					0.099	0.075	0.041	Light	Light	Light
C	Runway	114	2064	50	234.5	0.616	-0.009	-0.007	0.615	18	18	13	7	-0.023	-0.006	-0.008	2	0.109	0.077	0.044	Light	Light	Moderate
A	Runway	115	2739	50	234.5	0.572	-0.005	0.001	0.575	18	18	14	8					0.102	0.079	0.049	Light	Light	Moderate
C	Runway	115	2739	50	234.5	0.476	-0.012	0.009	0.488	20	21	17	10	-0.096	-0.007	0.008	2	0.103	0.083	0.051	Light	Light	Moderate
A	Runway	116	3300	50	234.5	0.394	-0.003	-0.019	0.429	28	33	24	19					0.142	0.103	0.080	Light	Light	Severe
C	Runway	116	3300	50	234.5	0.423	0.01	-0.035	0.450	25	28	22	15	0.029	0.013	-0.016	-3	0.127	0.098	0.069	Light	Light	Moderate
A	Runway	117	3875	50	234.5	0.576	0.001	-0.016	0.578	18	18	12	8					0.105	0.070	0.043	Light	Light	Light
C	Runway	117	3875	50	234.5	0.413	-0.003	0.003	0.440	27	30	22	16	-0.163	-0.004	0.019	9	0.130	0.098	0.071	Light	Light	Moderate
A	Runway	118	4450	50	234.5	0.636	-0.014	-0.01	0.634	16	16	12	6					0.102	0.075	0.038	Light	Light	Light
C	Runway	118	4450	50	234.5	0.525	-0.022	0.001	0.535	21	21	16	10	-0.111	-0.008	0.011	5	0.114	0.088	0.053	Light	Light	Moderate
A	Runway	121	0	100	234.5	0.705	-0.014	0.001	0.699	16	16	12	7					0.111	0.082	0.050	Light	Light	Moderate
C	Runway	121	0	100	234.5	0.674	-0.011	0.004	0.670	17	18	11	8	-0.031	0.003	0.003	1	0.118	0.075	0.054	Light	Light	Moderate
A	Runway	122	695	100	234.5	0.692	-0.007	-0.004	0.686	16	16	11	7					0.109	0.074	0.047	Light	Light	Moderate
C	Runway	122	695	100	234.5	0.646	-0.007	-0.018	0.644	18	18	12	8	-0.046	0	-0.014	2	0.117	0.077	0.049	Light	Light	Moderate
A	Runway	123	1389	100	234.5	0.683	-0.011	-0.001	0.678	15	15	11	7					0.102	0.074	0.046	Light	Light	Moderate
C	Runway	123	1389	100	234.5	0.666	-0.003	-0.016	0.663	17	17	12	7	-0.017	0.008	-0.015	2	0.112	0.083	0.047	Light	Light	Moderate
A	Runway	124	2064	100	234.5	0.684	-0.014	-0.003	0.679	14	14	11	7					0.096	0.074	0.045	Light	Light	Moderate
C	Runway	124	2064	100	234.5	0.658	-0.008	-0.011	0.655	16	16	12	7	-0.026	0.006	-0.008	2	0.107	0.078	0.048	Light	Light	Moderate
A	Runway	125	2739	100	234.5	0.657	-0.012	-0.003	0.655	17	17	12	7					0.111	0.081	0.048	Light	Light	Moderate
C	Runway	125	2739	100	234.5	0.579	-0.002	0.005	0.582	20	21	13	10	-0.078	0.01	0.008	3	0.121	0.074	0.056	Light	Light	Moderate
A	Runway	126	3300	100	234.5	0.605	-0.028	-0.018	0.608	21	21	13	8					0.129	0.078	0.051	Light	Light	Moderate
C	Runway	126	3300	100	234.5	0.627	-0.019	-0.023	0.627	18	18	12	8	0.022	0.009	-0.005	-3	0.113	0.073	0.049	Light	Light	Moderate
A	Runway	127	3875	100	234.5	0.682	0.001	-0.002	0.677	15	15	11	6					0.101	0.073	0.043	Light	Light	Light
C	Runway	127	3875	100	234.5	0.576	-0.007	-0.021	0.581	23	23	13	9	-0.106	-0.008	-0.019	8	0.135	0.076	0.055	Light	Light	Moderate
A	Runway	128	4450	100	234.5	0.694	-0.018	0	0.688	15	15	11	7					0.101	0.078	0.045	Light	Light	Moderate
C	Runway	128	4450	100	234.5	0.606	-0.014	0.004	0.608	19	20	14	9	-0.088	0.004	0.004	4	0.120	0.083	0.055	Light	Light	Moderate
A	Runway	131	0	150	234.5	0.736	-0.007	-0.001	0.729	15	15	11	7					0.113	0.082	0.052	Light	Light	Moderate
C	Runway	131	0	150	234.5	0.715	-0.016	0.002	0.708	16	16	10	7	-0.021	-0.009	0.003	1	0.112	0.073	0.052	Light	Light	Moderate
A	Runway	132	695	150	234.5	0.733	-0.012	-0.004	0.726	15	15	10	7					0.106	0.076	0.051	Light	Light	Moderate
C	Runway	132	695	150	234.5	0.688	-0.013	-0.013	0.683	16	16	11	7	-0.045	-0.001	-0.009	1	0.109	0.076	0.050	Light	Light	Moderate
A	Runway	133	1389	150	234.5	0.72	-0.008	-0.002	0.713	14	14	11	7					0.102	0.079	0.051	Light	Light	Moderate
C	Runway	133	1389	150	234.5	0.71	-0.01	-0.017	0.704	15	15	12	7	-0.01	-0.002	-0.015	1	0.105	0.082	0.047	Light	Light	Moderate
A	Runway	134	2064	150	234.5	0.717	-0.015	0	0.710	14	14	11	7					0.101	0.080	0.050	Light	Light	Moderate
C	Runway	134	2064	150	234.5	0.696	-0.01	-0.018	0.690	15	15	11	7	-0.021	0.005	-0.018	1	0.105	0.075	0.048	Light	Light	Moderate
A	Runway	135	2739	150	234.5	0.698	-0.014	-0.002	0.694	15	15	12	7					0.101	0.083	0.049	Light	Light	Moderate
C	Runway	135	2739	150	234.5	0.649	-0.005	0.001	0.648	19	19	12	8	-0.049	0.009	0.003	4	0.123	0.079	0.054	Light	Light	Moderate
A	Runway	136	3300	150	234.5	0.689	-0.022	-0.008	0.685	15	15	11	7					0.105	0.075	0.049	Light	Light	Moderate
C	Runway	136	3300	150	234.5	0.684	-0.028	-0.015	0.680	15	15	11	7	-0.005	-0.006	-0.007	0	0.105	0.077	0.048	Light	Light	Moderate
A	Runway	137	3875	150	234.5	0.724	0.002	-0.006	0.717	13	13	11	7					0.096	0.081	0.048	Light	Light	Moderate
C	Runway	137	3875	150	234.5	0.696	-0.01	-0.014	0.691	17	17	11	7	-0.028	-0.012	-0.008	4	0.115	0.075	0.051	Light	Light	Moderate
A	Runway	138	4450	150	234.5	0.722	-0.016	0.002	0.715	14	14	11	7					0.103	0.080	0.050	Light	Light	Moderate
C	Runway	138	4450	150	234.5	0.669	0.001	0.003	0.666	17	17	12	8	-0.053	0.017	0.001	3	0.116	0.080	0.055	Light	Light	Moderate
A	Runway	141	0	250	234.5	0.792	-0.002	-0.004	0.781	12	12	10	7					0.095	0.081	0.055	Light	Light	Moderate
C	Runway	141	0	250	234.5	0.778	-0.014	-0.001	0.767	13	13	10	7	-0.014	-0.012	0.003	1	0.100	0.075	0.054	Light	Light	Moderate
A	Runway	142	695	250	234.5	0.781	-0.015	-0.003	0.772	13	13	11	7					0.103	0.085	0.056	Light	Light	Moderate
C	Runway	142	695	250	234.5	0.775	-0.02	-0.014	0.766	13	13	10	7	-0.006	-0.005	-0.011	0	0.098	0.079	0.055	Light	Light	Moderate
A	Runway	143	1389	250	234.5	0.759	-0.015	-0.004	0.751	13	13	11	7					0.096	0.080	0.055	Light	Light	Moderate
C	Runway	143	1389	250	234.5	0.75	-0.013	-0.018	0.742	13	13	11	7	-0.009	0.002	-0.014	0	0.098	0.080	0.054	Light	Light	Moderate
A	Runway	144	2064	250	234.5	0.757	-0.013	-0.003	0.749	13	13	11	7					0.097	0.086	0.055	Light	Light	Moderate
C	Runway	144	2064	250	234.5	0.747	-0.003	-0.015	0.739	14	14	11	8	-0.01	0.01	-0.012	1	0.100	0.078	0.056	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	145	2739	250	234.5	0.741	-0.013	0.001	0.734	14	14	11	7					0.103	0.081	0.053	Light	Light	Moderate
C	Runway	145	2739	250	234.5	0.749	-0.003	0.001	0.741	14	14	11	7	0.008	0.01	0	0	0.106	0.083	0.055	Light	Light	Moderate
A	Runway	146	3300	250	234.5	0.739	-0.022	-0.003	0.732	14	14	10	8					0.102	0.077	0.056	Light	Light	Moderate
C	Runway	146	3300	250	234.5	0.74	-0.025	-0.011	0.733	13	13	11	7	0.001	-0.003	-0.008	-1	0.097	0.082	0.054	Light	Light	Moderate
A	Runway	147	3875	250	234.5	0.748	-0.011	-0.005	0.740	13	13	11	7					0.099	0.079	0.055	Light	Light	Moderate
C	Runway	147	3875	250	234.5	0.733	-0.012	-0.015	0.727	15	15	11	8	-0.015	-0.001	-0.01	2	0.108	0.083	0.057	Light	Light	Moderate
A	Runway	148	4450	250	234.5	0.761	-0.023	-0.004	0.752	13	13	10	7					0.096	0.077	0.056	Light	Light	Moderate
C	Runway	148	4450	250	234.5	0.748	-0.005	-0.003	0.740	14	14	11	8	-0.013	0.018	0.001	1	0.105	0.081	0.057	Light	Light	Moderate
A	HPLZ1	201	0	25	234.5	0.591	-0.004	-0.011	0.591	17	17	12	7					0.098	0.073	0.042	Light	Light	Light
C	HPLZ1	201	0	25	234.5	0.553	0.023	-0.01	0.557	17	18	13	8	-0.038	0.027	0.001	0	0.098	0.074	0.043	Light	Light	Light
A	HPLZ1	202	675	25	234.5	0.57	-0.015	-0.015	0.571	16	16	12	7					0.091	0.068	0.039	Light	Light	Light
C	HPLZ1	202	675	25	234.5	0.56	-0.02	-0.009	0.562	17	17	12	7	-0.01	-0.005	0.006	1	0.098	0.069	0.040	Light	Light	Light
A	HPLZ1	203	1350	25	234.5	0.53	-0.008	0.007	0.534	18	18	13	8					0.097	0.071	0.040	Light	Light	Light
C	HPLZ1	203	1350	25	234.5	0.464	-0.016	0.007	0.477	22	23	18	10	-0.066	-0.008	0	4	0.108	0.087	0.047	Light	Light	Moderate
A	HPLZ1	211	0	50	234.5	0.636	-0.003	-0.007	0.634	15	15	12	7					0.097	0.076	0.043	Light	Light	Light
C	HPLZ1	211	0	50	234.5	0.605	0.017	-0.012	0.605	16	16	12	8	-0.031	0.02	-0.005	1	0.097	0.071	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	234.5	0.632	-0.007	-0.008	0.629	16	16	11	6					0.099	0.072	0.040	Light	Light	Light
C	HPLZ1	212	675	50	234.5	0.601	-0.01	-0.006	0.601	17	17	12	7	-0.031	-0.003	0.002	1	0.103	0.075	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	234.5	0.588	-0.01	0.001	0.590	18	18	13	8					0.105	0.078	0.048	Light	Light	Moderate
C	HPLZ1	213	1350	50	234.5	0.513	-0.014	0.012	0.522	20	21	15	10	-0.075	-0.004	0.011	2	0.107	0.080	0.052	Light	Light	Moderate
A	HPLZ1	221	0	100	234.5	0.691	-0.01	-0.006	0.686	15	15	11	7					0.104	0.075	0.047	Light	Light	Moderate
C	HPLZ1	221	0	100	234.5	0.668	0.001	-0.014	0.664	16	16	12	7	-0.023	0.011	-0.008	1	0.109	0.079	0.046	Light	Light	Moderate
A	HPLZ1	222	675	100	234.5	0.689	-0.015	-0.003	0.684	14	14	11	6					0.095	0.077	0.044	Light	Light	Moderate
C	HPLZ1	222	675	100	234.5	0.667	-0.013	-0.011	0.663	16	16	12	7	-0.022	0.002	-0.008	2	0.103	0.080	0.047	Light	Light	Moderate
A	HPLZ1	223	1350	100	234.5	0.666	-0.018	-0.006	0.662	15	15	12	7					0.102	0.079	0.048	Light	Light	Moderate
C	HPLZ1	223	1350	100	234.5	0.588	-0.009	0.005	0.590	20	21	13	9	-0.078	0.009	0.011	5	0.122	0.077	0.054	Light	Light	Moderate
A	HPLZ1	231	0	150	234.5	0.717	-0.009	-0.006	0.711	14	14	11	7					0.099	0.080	0.049	Light	Light	Moderate
C	HPLZ1	231	0	150	234.5	0.707	-0.008	-0.01	0.701	15	15	11	7	-0.01	0.001	-0.004	1	0.105	0.079	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	234.5	0.725	-0.01	-0.006	0.718	14	14	11	7					0.097	0.078	0.048	Light	Light	Moderate
C	HPLZ1	232	675	150	234.5	0.71	-0.013	-0.012	0.704	15	15	12	7	-0.015	-0.003	-0.006	1	0.108	0.082	0.049	Light	Light	Moderate
A	HPLZ1	233	1350	150	234.5	0.712	-0.015	-0.007	0.705	15	15	11	7					0.102	0.080	0.046	Light	Light	Moderate
C	HPLZ1	233	1350	150	234.5	0.656	-0.014	0.001	0.654	19	19	12	8	-0.056	0.001	0.008	4	0.125	0.080	0.055	Light	Light	Moderate
A	HPLZ1	241	0	250	234.5	0.776	-0.014	-0.006	0.767	12	12	11	7					0.092	0.083	0.054	Light	Light	Moderate
C	HPLZ1	241	0	250	234.5	0.755	-0.017	-0.015	0.746	13	13	11	7	-0.021	-0.003	-0.009	1	0.097	0.079	0.053	Light	Light	Moderate
A	HPLZ1	242	675	250	234.5	0.763	-0.01	-0.005	0.755	13	13	11	8					0.097	0.082	0.058	Light	Light	Moderate
C	HPLZ1	242	675	250	234.5	0.761	-0.014	-0.016	0.752	13	13	10	7	-0.002	-0.004	-0.011	0	0.096	0.077	0.053	Light	Light	Moderate
A	HPLZ1	243	1350	250	234.5	0.761	-0.018	-0.004	0.753	13	13	11	7					0.098	0.083	0.056	Light	Light	Moderate
C	HPLZ1	243	1350	250	234.5	0.724	-0.012	-0.004	0.717	14	14	11	8	-0.037	0.006	0	1	0.103	0.075	0.054	Light	Light	Moderate
A	HPLZ2	301	0	25	234.5	0.605	-0.012	-0.006	0.604	16	16	11	7					0.096	0.065	0.040	Light	Light	Light
C	HPLZ2	301	0	25	234.5	0.576	0.001	-0.001	0.577	16	16	12	7	-0.029	0.013	0.005	0	0.092	0.068	0.041	Light	Light	Light
A	HPLZ2	302	675	25	234.5	0.58	-0.006	-0.016	0.581	16	16	12	7					0.091	0.068	0.039	Light	Light	Light
C	HPLZ2	302	675	25	234.5	0.573	-0.03	-0.01	0.574	16	16	11	7	-0.007	-0.024	0.006	0	0.093	0.064	0.040	Light	Light	Light
A	HPLZ2	303	1350	25	234.5	0.489	0.006	-0.003	0.498	20	20	15	10					0.100	0.076	0.049	Light	Light	Moderate
C	HPLZ2	303	1350	25	234.5	0.464	0.01	-0.004	0.479	22	23	19	10	-0.025	0.004	-0.001	2	0.108	0.092	0.050	Light	Light	Moderate
A	HPLZ2	311	0	50	234.5	0.646	-0.01	-0.004	0.642	15	15	11	6					0.097	0.070	0.041	Light	Light	Light
C	HPLZ2	311	0	50	234.5	0.625	0.001	-0.001	0.623	15	15	12	7	-0.021	0.011	0.003	0	0.091	0.072	0.043	Light	Light	Light
A	HPLZ2	312	675	50	234.5	0.63	-0.011	-0.007	0.627	15	15	12	6					0.095	0.073	0.040	Light	Light	Light
C	HPLZ2	312	675	50	234.5	0.612	-0.023	-0.007	0.612	16	16	12	8	-0.018	-0.012	0	1	0.097	0.071	0.046	Light	Light	Moderate
A	HPLZ2	313	1350	50	234.5	0.561	-0.017	-0.01	0.564	19	19	13	9					0.110	0.073	0.049	Light	Light	Moderate
C	HPLZ2	313	1350	50	234.5	0.522	-0.017	-0.009	0.529	20	21	15	10	-0.039	0	0.001	1	0.109	0.081	0.052	Light	Light	Moderate
A	HPLZ2	321	0	100	234.5	0.689	-0.014	-0.003	0.684	15	15	11	7					0.101	0.075	0.046	Light	Light	Moderate
C	HPLZ2	321	0	100	234.5	0.675	-0.001	0	0.670	15	15	11	7	-0.014	0.013	0.003	0	0.099	0.076	0.048	Light	Light	Moderate
A	HPLZ2	322	675	100	234.5	0.69	-0.013	-0.001	0.685	15	15	11	6					0.101	0.077	0.044	Light	Light	Moderate
C	HPLZ2	322	675	100	234.5	0.672	-0.018	-0.009	0.668	15	15	11	7	-0.018	-0.005	-0.008	0	0.102	0.074	0.048	Light	Light	Moderate
A	HPLZ2	323	1350	100	234.5	0.63	-0.02	-0.01	0.629	17	17	11	8					0.106	0.070	0.048	Light	Light	Moderate
C	HPLZ2	323	1350	100	234.5	0.601	-0.014	-0.008	0.602	21	21	13	9	-0.029	0.006	0.002	4	0.127	0.079	0.054	Light	Light	Moderate

Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	331	0	150	234.5	0.727	-0.009	-0.001	0.721	14	14	12	7					0.102	0.088	0.051	Light	Light	Moderate
C	HPLZ2	331	0	150	234.5	0.714	-0.015	-0.005	0.707	14	14	11	7	-0.013	-0.006	-0.004	0	0.099	0.076	0.047	Light	Light	Moderate
A	HPLZ2	332	675	150	234.5	0.718	-0.016	-0.004	0.711	13	13	11	7					0.090	0.076	0.050	Light	Light	Moderate
C	HPLZ2	332	675	150	234.5	0.692	-0.009	-0.012	0.687	15	15	11	7	-0.026	0.007	-0.008	2	0.104	0.077	0.049	Light	Light	Moderate
A	HPLZ2	333	1350	150	234.5	0.689	-0.015	-0.009	0.683	16	15	11	7					0.106	0.073	0.048	Light	Light	Moderate
C	HPLZ2	333	1350	150	234.5	0.668	-0.014	-0.011	0.665	17	17	12	8	-0.021	0.001	-0.002	1	0.114	0.078	0.052	Light	Light	Moderate
A	HPLZ2	341	0	250	234.5	0.757	-0.006	-0.004	0.749	14	14	11	7					0.101	0.081	0.055	Light	Light	Moderate
C	HPLZ2	341	0	250	234.5	0.758	-0.015	-0.005	0.749	13	13	11	7	0.001	-0.009	-0.001	-1	0.096	0.081	0.051	Light	Light	Moderate
A	HPLZ2	342	675	250	234.5	0.754	-0.014	-0.003	0.746	12	12	11	7					0.092	0.080	0.055	Light	Light	Moderate
C	HPLZ2	342	675	250	234.5	0.742	-0.007	-0.01	0.735	14	14	11	7	-0.012	0.007	-0.007	2	0.105	0.082	0.055	Light	Light	Moderate
A	HPLZ2	343	1350	250	234.5	0.752	-0.02	-0.005	0.744	13	13	11	7					0.099	0.081	0.055	Light	Light	Moderate
C	HPLZ2	343	1350	250	234.5	0.73	-0.02	-0.006	0.723	15	14	11	8	-0.022	0	-0.001	2	0.105	0.079	0.054	Light	Light	Moderate
A	SLZ1	401	0	25	234.5	0.407	0.046	0.016	0.437	24	25	26	13					0.109	0.115	0.056	Light	Light	Moderate
C	SLZ1	401	0	25	234.5	0.451	0.042	0.006	0.470	21	22	21	11	0.044	-0.004	-0.01	-3	0.102	0.097	0.053	Light	Light	Moderate
A	SLZ1	402	575	25	234.5	0.519	0.004	-0.002	0.526	20	20	15	8					0.107	0.079	0.044	Light	Light	Moderate
C	SLZ1	402	575	25	234.5	0.467	0.012	0.005	0.483	24	25	20	10	-0.052	0.008	0.007	4	0.120	0.098	0.050	Light	Light	Moderate
A	SLZ1	403	1150	25	234.5	0.553	-0.001	-0.008	0.555	17	17	12	7					0.096	0.069	0.041	Light	Light	Moderate
C	SLZ1	403	1150	25	234.5	0.515	-0.01	-0.001	0.523	20	21	16	9	-0.038	-0.009	0.007	3	0.109	0.082	0.046	Light	Light	Moderate
A	SLZ1	411	0	50	234.5	0.463	0.024	0.002	0.484	24	25	21	15					0.121	0.103	0.071	Light	Light	Moderate
C	SLZ1	411	0	50	234.5	0.489	0.019	-0.007	0.502	22	22	17	13	0.026	-0.005	-0.009	-2	0.113	0.085	0.065	Light	Light	Moderate
A	SLZ1	412	575	50	234.5	0.598	-0.003	-0.009	0.597	18	18	11	7					0.106	0.068	0.042	Light	Light	Moderate
C	SLZ1	412	575	50	234.5	0.509	0.014	0.004	0.522	23	24	17	12	-0.089	0.017	0.013	5	0.127	0.087	0.064	Light	Light	Moderate
A	SLZ1	413	1150	50	234.5	0.636	-0.006	-0.007	0.633	16	16	11	6					0.103	0.070	0.039	Light	Light	Moderate
C	SLZ1	413	1150	50	234.5	0.582	-0.013	-0.001	0.585	20	20	13	8	-0.054	-0.007	0.006	4	0.117	0.077	0.050	Light	Light	Moderate
A	SLZ1	421	0	100	234.5	0.581	-0.024	-0.016	0.587	21	22	15	10					0.128	0.086	0.058	Light	Light	Moderate
C	SLZ1	421	0	100	234.5	0.628	-0.021	-0.019	0.628	17	17	12	8	0.047	0.003	-0.003	-4	0.107	0.077	0.051	Light	Light	Moderate
A	SLZ1	422	575	100	234.5	0.682	-0.017	0.001	0.677	15	15	11	6					0.103	0.075	0.042	Light	Light	Moderate
C	SLZ1	422	575	100	234.5	0.597	-0.012	-0.019	0.600	20	21	13	10	-0.085	0.005	-0.02	5	0.124	0.079	0.057	Light	Light	Moderate
A	SLZ1	423	1150	100	234.5	0.711	-0.016	-0.002	0.704	14	14	10	6					0.102	0.073	0.043	Light	Light	Moderate
C	SLZ1	423	1150	100	234.5	0.637	-0.009	0.002	0.636	19	19	12	8	-0.074	0.007	0.004	5	0.123	0.074	0.049	Light	Light	Moderate
A	SLZ1	431	0	150	234.5	0.688	-0.027	-0.007	0.684	15	15	12	7					0.105	0.082	0.049	Light	Light	Moderate
C	SLZ1	431	0	150	234.5	0.703	-0.021	-0.013	0.697	15	15	11	7	0.015	0.006	-0.006	0	0.108	0.077	0.047	Light	Light	Moderate
A	SLZ1	432	575	150	234.5	0.717	-0.005	-0.001	0.710	14	14	11	7					0.096	0.076	0.048	Light	Light	Moderate
C	SLZ1	432	575	150	234.5	0.666	-0.02	-0.014	0.663	16	16	11	7	-0.051	-0.015	-0.013	2	0.107	0.075	0.049	Light	Light	Moderate
A	SLZ1	433	1150	150	234.5	0.745	-0.023	0	0.737	14	14	11	7					0.102	0.081	0.049	Light	Light	Moderate
C	SLZ1	433	1150	150	234.5	0.69	-0.012	0.002	0.685	17	17	11	8	-0.055	0.011	0.002	3	0.120	0.076	0.057	Light	Light	Moderate
A	SLZ1	441	0	250	234.5	0.733	-0.021	-0.007	0.726	13	13	10	8					0.093	0.076	0.055	Light	Light	Moderate
C	SLZ1	441	0	250	234.5	0.73	-0.024	-0.008	0.723	14	14	11	8	-0.003	-0.003	-0.001	1	0.100	0.080	0.055	Light	Light	Moderate
A	SLZ1	442	575	250	234.5	0.751	-0.017	-0.005	0.743	13	13	10	8					0.098	0.076	0.057	Light	Light	Moderate
C	SLZ1	442	575	250	234.5	0.738	-0.012	-0.015	0.732	13	13	11	8	-0.013	0.005	-0.01	0	0.092	0.082	0.056	Light	Light	Moderate
A	SLZ1	443	1150	250	234.5	0.76	-0.016	0	0.751	13	13	10	8					0.099	0.077	0.060	Light	Light	Moderate
C	SLZ1	443	1150	250	234.5	0.755	-0.005	-0.006	0.747	14	14	10	8	-0.005	0.011	-0.006	1	0.104	0.077	0.061	Light	Light	Moderate
A	SLZ2	501	0	25	234.5	0.57	0.015	-0.008	0.571	17	18	11	7					0.100	0.062	0.042	Light	Light	Moderate
C	SLZ2	501	0	25	234.5	0.552	0	-0.007	0.554	16	17	12	8	-0.018	-0.015	0.001	-1	0.092	0.066	0.043	Light	Light	Moderate
A	SLZ2	502	575	25	234.5	0.569	-0.009	-0.008	0.570	18	18	12	7					0.101	0.067	0.040	Light	Light	Moderate
C	SLZ2	502	575	25	234.5	0.567	-0.022	-0.01	0.567	16	16	10	7	-0.002	-0.013	-0.002	-2	0.093	0.057	0.042	Light	Light	Moderate
A	SLZ2	503	1150	25	234.5	0.572	-0.004	-0.003	0.572	17	17	12	7					0.097	0.066	0.039	Light	Light	Moderate
C	SLZ2	503	1150	25	234.5	0.555	-0.009	-0.003	0.558	19	19	13	8	-0.017	-0.005	0	2	0.104	0.074	0.043	Light	Light	Moderate
A	SLZ2	511	0	50	234.5	0.614	0.014	-0.007	0.614	17	18	11	8					0.108	0.070	0.047	Light	Light	Moderate
C	SLZ2	511	0	50	234.5	0.608	0.001	-0.013	0.607	16	16	12	8	-0.006	-0.013	-0.006	-1	0.098	0.070	0.047	Light	Light	Moderate
A	SLZ2	512	575	50	234.5	0.623	-0.009	-0.002	0.621	16	16	11	7					0.101	0.071	0.041	Light	Light	Moderate
C	SLZ2	512	575	50	234.5	0.605	-0.02	-0.009	0.604	17	17	10	8	-0.018	-0.011	-0.007	1	0.105	0.060	0.049	Light	Light	Moderate
A	SLZ2	513	1150	50	234.5	0.644	-0.014	-0.002	0.641	16	16	12	6					0.101	0.074	0.041	Light	Light	Moderate
C	SLZ2	513	1150	50	234.5	0.615	-0.011	0.002	0.615	18	18	12	7	-0.029	0.003	0.004	2	0.112	0.075	0.045	Light	Light	Moderate
A	SLZ2	521	0	100	234.5	0.667	0	-0.015	0.663	17	17	11	7					0.113	0.075	0.049	Light	Light	Moderate
C	SLZ2	521	0	100	234.5	0.661	-0.007	-0.018	0.658	16	16	11	7	-0.006	-0.007	-0.003	-1	0.105	0.074	0.047	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ2	522	575	100	234.5	0.689	-0.008	-0.001	0.683	14	14	10	6					0.098	0.070	0.043	Light	Light	Light
C	SLZ2	522	575	100	234.5	0.645	-0.011	-0.018	0.643	16	16	11	8	-0.044	-0.003	-0.017	2	0.105	0.072	0.050	Light	Light	Moderate
A	SLZ2	523	1150	100	234.5	0.708	-0.015	0	0.701	14	14	11	6					0.095	0.076	0.044	Light	Light	Moderate
C	SLZ2	523	1150	100	234.5	0.695	-0.012	0	0.689	16	16	11	7	-0.013	0.003	0	2	0.112	0.075	0.047	Light	Light	Moderate
A	SLZ2	531	0	150	234.5	0.708	-0.014	-0.014	0.701	15	15	11	7					0.103	0.077	0.046	Light	Light	Moderate
C	SLZ2	531	0	150	234.5	0.702	-0.016	-0.016	0.697	15	15	11	7	-0.006	-0.002	-0.002	0	0.101	0.078	0.048	Light	Light	Moderate
A	SLZ2	532	575	150	234.5	0.729	-0.01	0	0.722	14	14	11	7					0.098	0.077	0.049	Light	Light	Moderate
C	SLZ2	532	575	150	234.5	0.68	-0.014	-0.013	0.677	16	16	12	8	-0.049	-0.004	-0.013	2	0.106	0.081	0.051	Light	Light	Moderate
A	SLZ2	533	1150	150	234.5	0.741	-0.019	0	0.733	13	13	11	7					0.099	0.081	0.049	Light	Light	Moderate
C	SLZ2	533	1150	150	234.5	0.72	-0.01	0.001	0.714	15	15	11	7	-0.021	0.009	0.001	2	0.107	0.076	0.052	Light	Light	Moderate
A	SLZ2	541	0	250	234.5	0.747	-0.016	-0.006	0.739	13	13	12	7					0.099	0.086	0.053	Light	Light	Moderate
C	SLZ2	541	0	250	234.5	0.745	-0.019	-0.013	0.737	13	13	11	7	-0.002	-0.003	-0.007	0	0.094	0.078	0.054	Light	Light	Moderate
A	SLZ2	542	575	250	234.5	0.75	-0.018	-0.003	0.742	13	13	10	8					0.094	0.077	0.056	Light	Light	Moderate
C	SLZ2	542	575	250	234.5	0.738	-0.016	-0.013	0.731	14	14	11	7	-0.012	0.002	-0.01	1	0.105	0.083	0.054	Light	Light	Moderate
A	SLZ2	543	1150	250	234.5	0.773	-0.016	-0.006	0.763	12	12	10	8					0.095	0.074	0.058	Light	Light	Moderate
C	SLZ2	543	1150	250	234.5	0.769	-0.012	-0.002	0.760	13	13	10	8	-0.004	0.004	0.004	1	0.100	0.077	0.061	Light	Light	Moderate
A	Runway	101	0	25	257	0.588	0.003	0.001	0.589	18	18	13	7					0.106	0.076	0.044	Light	Light	Moderate
C	Runway	101	0	25	257	0.56	-0.005	0.001	0.563	19	19	13	8	-0.028	-0.008	0	1	0.106	0.074	0.045	Light	Light	Moderate
A	Runway	102	695	25	257	0.564	-0.013	-0.002	0.566	18	18	13	7					0.102	0.075	0.040	Light	Light	Light
C	Runway	102	695	25	257	0.384	-0.029	0.001	0.413	25	28	23	16	-0.18	-0.016	0.003	7	0.115	0.096	0.066	Light	Light	Moderate
A	Runway	103	1389	25	257	0.547	-0.01	-0.001	0.551	18	18	14	8					0.098	0.076	0.042	Light	Light	Light
C	Runway	103	1389	25	257	0.412	0.015	-0.001	0.432	22	24	21	12	-0.135	0.025	0	4	0.104	0.090	0.054	Light	Light	Moderate
A	Runway	104	2064	25	257	0.546	-0.003	0.003	0.549	17	17	13	7					0.091	0.071	0.039	Light	Light	Light
C	Runway	104	2064	25	257	0.449	0.018	0.002	0.465	21	22	18	11	-0.097	0.021	-0.001	4	0.104	0.085	0.049	Light	Light	Moderate
A	Runway	105	2739	25	257	0.527	-0.007	0	0.531	18	18	13	7					0.094	0.069	0.039	Light	Light	Light
C	Runway	105	2739	25	257	0.444	-0.035	0.006	0.458	19	20	16	10	-0.083	-0.028	0.006	1	0.092	0.075	0.046	Light	Light	Moderate
A	Runway	106	3300	25	257	0.416	-0.034	0.004	0.433	21	22	18	12					0.097	0.077	0.050	Light	Light	Moderate
C	Runway	106	3300	25	257	0.438	-0.04	0.006	0.454	21	22	17	10	0.022	-0.006	0.002	0	0.100	0.077	0.047	Light	Light	Moderate
A	Runway	107	3875	25	257	0.477	0.057	-0.012	0.494	25	27	16	11					0.134	0.080	0.054	Light	Light	Moderate
C	Runway	107	3875	25	257	0.428	0.054	-0.01	0.451	23	25	19	13	-0.049	-0.003	0.002	-2	0.112	0.087	0.058	Light	Light	Moderate
A	Runway	108	4450	25	257	0.55	-0.013	-0.011	0.553	18	18	13	7					0.099	0.070	0.040	Light	Light	Light
C	Runway	108	4450	25	257	0.546	-0.019	-0.004	0.549	19	19	12	8	-0.004	-0.006	0.007	1	0.107	0.066	0.044	Light	Light	Moderate
A	Runway	111	0	50	257	0.624	0	0.002	0.624	18	18	13	8					0.112	0.080	0.048	Light	Light	Moderate
C	Runway	111	0	50	257	0.6	-0.007	-0.002	0.601	18	18	13	8	-0.024	-0.007	-0.004	0	0.111	0.076	0.048	Light	Light	Moderate
A	Runway	112	695	50	257	0.59	-0.011	0.004	0.591	18	18	13	8					0.109	0.076	0.045	Light	Light	Moderate
C	Runway	112	695	50	257	0.461	-0.024	-0.013	0.481	25	27	19	14	-0.129	-0.013	-0.017	7	0.131	0.093	0.067	Light	Light	Moderate
A	Runway	113	1389	50	257	0.59	-0.012	0.003	0.591	17	17	12	7					0.101	0.072	0.044	Light	Light	Moderate
C	Runway	113	1389	50	257	0.486	0.001	-0.014	0.498	23	24	17	11	-0.104	0.013	-0.017	6	0.119	0.086	0.056	Light	Light	Moderate
A	Runway	114	2064	50	257	0.59	-0.006	0.005	0.590	16	16	13	7					0.097	0.075	0.040	Light	Light	Light
C	Runway	114	2064	50	257	0.517	0.014	-0.012	0.525	20	20	15	10	-0.073	0.02	-0.017	4	0.107	0.079	0.052	Light	Light	Moderate
A	Runway	115	2739	50	257	0.59	-0.008	0.003	0.591	17	17	13	7					0.101	0.077	0.041	Light	Light	Light
C	Runway	115	2739	50	257	0.491	-0.022	-0.005	0.500	20	21	14	11	-0.099	-0.014	-0.008	3	0.105	0.072	0.055	Light	Light	Moderate
A	Runway	116	3300	50	257	0.504	-0.033	-0.005	0.513	20	21	14	10					0.108	0.070	0.053	Light	Light	Moderate
C	Runway	116	3300	50	257	0.494	-0.033	-0.004	0.503	20	21	13	10	-0.01	0	0.001	0	0.104	0.068	0.052	Light	Light	Moderate
A	Runway	117	3875	50	257	0.529	0.025	-0.038	0.540	23	24	14	10					0.129	0.077	0.054	Light	Light	Moderate
C	Runway	117	3875	50	257	0.508	0.022	-0.039	0.520	23	25	15	11	-0.021	-0.003	-0.001	0	0.129	0.077	0.056	Light	Light	Moderate
A	Runway	118	4450	50	257	0.605	-0.007	-0.002	0.604	16	16	12	7					0.098	0.070	0.041	Light	Light	Light
C	Runway	118	4450	50	257	0.586	0	-0.007	0.587	18	18	12	8	-0.019	0.007	-0.005	2	0.107	0.069	0.046	Light	Light	Moderate
A	Runway	121	0	100	257	0.668	-0.009	-0.002	0.664	17	17	12	8					0.111	0.077	0.050	Light	Light	Moderate
C	Runway	121	0	100	257	0.66	-0.009	-0.005	0.658	17	17	12	8	-0.008	0	-0.003	0	0.115	0.078	0.052	Light	Light	Moderate
A	Runway	122	695	100	257	0.639	-0.012	0	0.638	17	17	12	8					0.111	0.078	0.050	Light	Light	Moderate
C	Runway	122	695	100	257	0.588	-0.003	-0.018	0.593	22	22	15	9	-0.051	0.009	-0.018	5	0.130	0.088	0.056	Light	Light	Moderate
A	Runway	123	1389	100	257	0.641	-0.013	-0.002	0.638	17	17	11	8					0.108	0.073	0.048	Light	Light	Moderate
C	Runway	123	1389	100	257	0.598	-0.007	-0.019	0.599	19	19	13	9	-0.043	0.006	-0.017	2	0.114	0.075	0.053	Light	Light	Moderate
A	Runway	124	2064	100	257	0.645	-0.008	0	0.643	17	17	12	7					0.107	0.080	0.046	Light	Light	Moderate
C	Runway	124	2064	100	257	0.598	-0.003	-0.014	0.600	20	21	14	8	-0.047	0.005	-0.014	3	0.124	0.081	0.048	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	125	2739	100	257	0.641	-0.009	0	0.639	16	16	12	7					0.101	0.074	0.045	Light	Light	Moderate
C	Runway	125	2739	100	257	0.59	-0.002	-0.011	0.592	18	19	14	9	-0.051	0.007	-0.011	2	0.110	0.084	0.051	Light	Light	Moderate
A	Runway	126	3300	100	257	0.605	-0.025	-0.012	0.605	18	18	12	8					0.110	0.070	0.047	Light	Light	Moderate
C	Runway	126	3300	100	257	0.594	-0.024	-0.012	0.595	18	18	12	8	-0.011	0.001	0	0	0.108	0.070	0.049	Light	Light	Moderate
A	Runway	127	3875	100	257	0.639	-0.004	-0.031	0.637	17	17	12	7					0.106	0.074	0.047	Light	Light	Moderate
C	Runway	127	3875	100	257	0.624	-0.004	-0.04	0.624	18	18	12	8	-0.015	0	-0.009	1	0.114	0.078	0.047	Light	Light	Moderate
A	Runway	128	4450	100	257	0.671	-0.014	0.001	0.666	16	16	11	7					0.106	0.075	0.045	Light	Light	Moderate
C	Runway	128	4450	100	257	0.654	0.003	-0.01	0.651	17	17	12	7	-0.017	0.017	-0.011	1	0.109	0.075	0.047	Light	Light	Moderate
A	Runway	131	0	150	257	0.714	-0.008	-0.007	0.708	16	16	12	8					0.110	0.082	0.053	Light	Light	Moderate
C	Runway	131	0	150	257	0.697	-0.008	-0.003	0.693	16	17	12	8	-0.017	0	0.004	0	0.114	0.080	0.055	Light	Light	Moderate
A	Runway	132	695	150	257	0.688	-0.014	-0.005	0.683	16	16	11	8					0.109	0.075	0.052	Light	Light	Moderate
C	Runway	132	695	150	257	0.659	-0.017	-0.015	0.658	19	19	13	8	-0.029	-0.003	-0.01	3	0.124	0.085	0.055	Light	Light	Moderate
A	Runway	133	1389	150	257	0.681	-0.01	-0.003	0.676	15	16	11	8					0.105	0.076	0.051	Light	Light	Moderate
C	Runway	133	1389	150	257	0.649	-0.015	-0.013	0.647	18	18	12	8	-0.032	-0.005	-0.01	3	0.119	0.078	0.051	Light	Light	Moderate
A	Runway	134	2064	150	257	0.663	-0.008	-0.008	0.660	16	16	12	7					0.104	0.077	0.048	Light	Light	Moderate
C	Runway	134	2064	150	257	0.664	-0.01	-0.017	0.661	17	17	12	8	0.001	-0.002	-0.019	1	0.113	0.082	0.052	Light	Light	Moderate
A	Runway	135	2739	150	257	0.67	-0.008	0.003	0.667	15	15	12	8					0.100	0.078	0.051	Light	Light	Moderate
C	Runway	135	2739	150	257	0.645	0.007	-0.011	0.645	17	17	13	8	-0.025	0.015	-0.014	2	0.108	0.087	0.053	Light	Light	Moderate
A	Runway	136	3300	150	257	0.656	-0.02	-0.009	0.652	15	15	11	7					0.098	0.070	0.046	Light	Light	Moderate
C	Runway	136	3300	150	257	0.635	-0.018	-0.011	0.634	17	17	12	8	-0.021	0.002	-0.002	2	0.108	0.073	0.050	Light	Light	Moderate
A	Runway	137	3875	150	257	0.682	-0.016	-0.021	0.678	15	15	11	7					0.102	0.078	0.048	Light	Light	Moderate
C	Runway	137	3875	150	257	0.659	-0.004	-0.026	0.657	16	16	12	8	-0.023	0.012	-0.005	1	0.106	0.081	0.049	Light	Light	Moderate
A	Runway	138	4450	150	257	0.699	-0.02	-0.002	0.694	16	16	11	8					0.108	0.077	0.052	Light	Light	Moderate
C	Runway	138	4450	150	257	0.698	-0.004	-0.013	0.693	16	16	11	8	-0.001	0.016	-0.011	0	0.109	0.079	0.052	Light	Light	Moderate
A	Runway	141	0	250	257	0.756	-0.011	-0.006	0.748	14	14	11	8					0.107	0.081	0.058	Light	Light	Moderate
C	Runway	141	0	250	257	0.745	-0.015	-0.005	0.738	15	16	11	8	-0.011	-0.004	0.001	1	0.115	0.081	0.059	Light	Light	Moderate
A	Runway	142	695	250	257	0.734	-0.013	-0.005	0.728	14	14	12	8					0.100	0.084	0.057	Light	Light	Moderate
C	Runway	142	695	250	257	0.721	-0.018	-0.01	0.716	14	14	11	8	-0.013	-0.005	-0.005	0	0.102	0.082	0.059	Light	Light	Moderate
A	Runway	143	1389	250	257	0.733	-0.014	-0.006	0.726	14	14	11	8					0.104	0.081	0.056	Light	Light	Moderate
C	Runway	143	1389	250	257	0.715	-0.014	-0.011	0.710	15	15	12	8	-0.018	0	-0.005	1	0.105	0.082	0.056	Light	Light	Moderate
A	Runway	144	2064	250	257	0.727	-0.012	0	0.720	14	14	11	8					0.099	0.082	0.057	Light	Light	Moderate
C	Runway	144	2064	250	257	0.712	-0.01	-0.014	0.707	15	15	12	8	-0.015	0.002	-0.014	1	0.107	0.083	0.060	Light	Light	Moderate
A	Runway	145	2739	250	257	0.721	-0.01	-0.004	0.714	15	15	11	8					0.110	0.077	0.056	Light	Light	Moderate
C	Runway	145	2739	250	257	0.698	0	-0.01	0.694	15	15	11	8	-0.023	0.01	-0.006	0	0.107	0.079	0.058	Light	Light	Moderate
A	Runway	146	3300	250	257	0.711	-0.022	-0.006	0.706	15	14	11	8					0.102	0.080	0.058	Light	Light	Moderate
C	Runway	146	3300	250	257	0.712	-0.013	-0.014	0.706	14	14	11	8	0.001	0.009	-0.008	-1	0.100	0.078	0.056	Light	Light	Moderate
A	Runway	147	3875	250	257	0.72	-0.014	-0.015	0.714	14	14	11	8					0.103	0.077	0.058	Light	Light	Moderate
C	Runway	147	3875	250	257	0.714	-0.015	-0.021	0.709	15	15	12	8	-0.006	-0.001	-0.006	1	0.106	0.082	0.058	Light	Light	Moderate
A	Runway	148	4450	250	257	0.723	-0.011	-0.003	0.716	15	15	11	8					0.109	0.076	0.059	Light	Light	Moderate
C	Runway	148	4450	250	257	0.737	-0.007	-0.016	0.730	14	14	11	8	0.014	0.004	-0.013	-1	0.106	0.079	0.059	Light	Light	Moderate
A	HPLZ1	201	0	25	257	0.554	-0.012	-0.006	0.557	18	18	13	7					0.099	0.073	0.041	Light	Light	Moderate
C	HPLZ1	201	0	25	257	0.457	0.002	-0.006	0.469	21	22	17	11	-0.097	0.014	0	3	0.103	0.079	0.049	Light	Light	Moderate
A	HPLZ1	202	675	25	257	0.533	-0.013	-0.01	0.537	18	18	13	8					0.098	0.069	0.040	Light	Light	Moderate
C	HPLZ1	202	675	25	257	0.489	0.006	-0.004	0.500	20	20	18	9	-0.044	0.019	0.006	2	0.099	0.088	0.044	Light	Light	Moderate
A	HPLZ1	203	1350	25	257	0.546	-0.005	0.005	0.548	17	17	12	7					0.093	0.068	0.038	Light	Light	Moderate
C	HPLZ1	203	1350	25	257	0.489	-0.036	0.002	0.497	19	19	13	9	-0.057	-0.031	-0.003	2	0.095	0.067	0.043	Light	Light	Moderate
A	HPLZ1	211	0	50	257	0.611	-0.007	-0.003	0.611	17	17	12	7					0.102	0.076	0.045	Light	Light	Moderate
C	HPLZ1	211	0	50	257	0.504	-0.001	-0.01	0.514	21	22	15	11	-0.107	0.006	-0.007	4	0.114	0.079	0.054	Light	Light	Moderate
A	HPLZ1	212	675	50	257	0.597	-0.01	0	0.597	17	17	13	7					0.099	0.075	0.041	Light	Light	Moderate
C	HPLZ1	212	675	50	257	0.533	0.004	-0.011	0.540	20	20	15	10	-0.064	0.014	-0.011	3	0.111	0.081	0.052	Light	Light	Moderate
A	HPLZ1	213	1350	50	257	0.596	-0.004	0.006	0.595	16	16	12	7					0.098	0.070	0.040	Light	Light	Moderate
C	HPLZ1	213	1350	50	257	0.522	-0.02	0.003	0.529	19	19	15	9	-0.074	-0.016	-0.003	3	0.101	0.078	0.049	Light	Light	Moderate
A	HPLZ1	221	0	100	257	0.636	-0.013	-0.004	0.634	17	17	12	8					0.105	0.074	0.049	Light	Light	Moderate
C	HPLZ1	221	0	100	257	0.594	-0.007	-0.015	0.597	21	21	14	9	-0.042	0.006	-0.011	4	0.125	0.081	0.051	Light	Light	Moderate
A	HPLZ1	222	675	100	257	0.647	-0.004	0	0.645	16	16	12	7					0.101	0.077	0.045	Light	Light	Moderate
C	HPLZ1	222	675	100	257	0.611	-0.002	-0.012	0.613	19	19	14	8	-0.036	0.002	-0.012	3	0.117	0.085	0.051	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	HPLZ1	223	1350	100	257	0.645	-0.01	0.005	0.642	15	16	11	7					0.100	0.073	0.045	Light	Light	Moderate
C	HPLZ1	223	1350	100	257	0.599	-0.008	-0.007	0.600	19	19	13	8	-0.046	0.002	-0.012	4	0.112	0.079	0.050	Light	Light	Moderate
A	HPLZ1	231	0	150	257	0.681	-0.017	-0.002	0.677	16	16	12	8					0.109	0.079	0.051	Light	Light	Moderate
C	HPLZ1	231	0	150	257	0.649	-0.02	-0.015	0.648	18	18	12	8	-0.032	-0.003	-0.013	2	0.115	0.078	0.055	Light	Light	Moderate
A	HPLZ1	232	675	150	257	0.686	-0.01	-0.001	0.681	15	15	12	7					0.101	0.081	0.050	Light	Light	Moderate
C	HPLZ1	232	675	150	257	0.663	-0.007	-0.015	0.661	16	16	13	8	-0.023	0.003	-0.014	1	0.108	0.084	0.050	Light	Light	Moderate
A	HPLZ1	233	1350	150	257	0.675	-0.004	0.002	0.670	15	15	11	7					0.100	0.075	0.049	Light	Light	Moderate
C	HPLZ1	233	1350	150	257	0.637	-0.004	-0.003	0.636	17	17	13	8	-0.038	0	-0.005	2	0.111	0.084	0.052	Light	Light	Moderate
A	HPLZ1	241	0	250	257	0.722	-0.006	-0.003	0.716	15	15	12	8					0.108	0.085	0.058	Light	Light	Moderate
C	HPLZ1	241	0	250	257	0.714	-0.018	-0.009	0.709	15	15	11	8	-0.008	-0.012	-0.006	0	0.109	0.080	0.057	Light	Light	Moderate
A	HPLZ1	242	675	250	257	0.729	-0.014	-0.004	0.723	14	14	11	8					0.099	0.081	0.057	Light	Light	Moderate
C	HPLZ1	242	675	250	257	0.716	-0.013	-0.014	0.710	15	15	11	8	-0.013	0.001	-0.01	1	0.109	0.082	0.058	Light	Light	Moderate
A	HPLZ1	243	1350	250	257	0.715	-0.012	-0.003	0.708	13	14	11	8					0.096	0.077	0.055	Light	Light	Moderate
C	HPLZ1	243	1350	250	257	0.713	-0.012	-0.006	0.708	14	14	12	8	-0.002	0	-0.003	1	0.101	0.082	0.059	Light	Light	Moderate
A	HPLZ2	301	0	25	257	0.559	-0.013	-0.001	0.561	17	18	12	7					0.099	0.069	0.040	Light	Light	Moderate
C	HPLZ2	301	0	25	257	0.498	-0.004	0.002	0.508	20	20	17	9	-0.061	0.009	0.003	3	0.104	0.087	0.047	Light	Light	Moderate
A	HPLZ2	302	675	25	257	0.534	-0.012	-0.008	0.538	17	17	13	8					0.094	0.068	0.040	Light	Light	Moderate
C	HPLZ2	302	675	25	257	0.506	0.005	-0.009	0.513	18	19	15	8	-0.028	0.017	-0.001	1	0.096	0.078	0.043	Light	Light	Moderate
A	HPLZ2	303	1350	25	257	0.539	-0.011	-0.005	0.542	17	18	12	7					0.095	0.067	0.038	Light	Light	Moderate
C	HPLZ2	303	1350	25	257	0.507	-0.034	-0.004	0.514	19	19	14	8	-0.032	-0.023	0.001	2	0.098	0.070	0.042	Light	Light	Moderate
A	HPLZ2	311	0	50	257	0.603	-0.005	0	0.603	16	16	12	7					0.099	0.074	0.042	Light	Light	Moderate
C	HPLZ2	311	0	50	257	0.534	-0.008	-0.002	0.541	20	20	15	9	-0.069	-0.003	-0.002	4	0.109	0.083	0.050	Light	Light	Moderate
A	HPLZ2	312	675	50	257	0.597	-0.005	-0.004	0.597	17	17	13	7					0.100	0.077	0.042	Light	Light	Moderate
C	HPLZ2	312	675	50	257	0.568	0.002	-0.007	0.572	18	18	15	8	-0.029	0.007	-0.003	1	0.102	0.085	0.048	Light	Light	Moderate
A	HPLZ2	313	1350	50	257	0.587	-0.012	-0.003	0.587	17	17	12	7					0.101	0.069	0.041	Light	Light	Moderate
C	HPLZ2	313	1350	50	257	0.542	-0.024	-0.004	0.546	19	19	13	8	-0.045	-0.012	-0.001	2	0.105	0.070	0.046	Light	Light	Moderate
A	HPLZ2	321	0	100	257	0.639	-0.009	0.001	0.637	16	16	12	8					0.103	0.074	0.050	Light	Light	Moderate
C	HPLZ2	321	0	100	257	0.596	-0.013	-0.006	0.598	20	20	13	9	-0.043	-0.004	-0.007	4	0.119	0.079	0.053	Light	Light	Moderate
A	HPLZ2	322	675	100	257	0.644	-0.008	-0.002	0.641	16	16	12	7					0.100	0.076	0.044	Light	Light	Moderate
C	HPLZ2	322	675	100	257	0.622	-0.002	-0.009	0.622	19	19	13	8	-0.022	0.006	-0.007	3	0.116	0.083	0.051	Light	Light	Moderate
A	HPLZ2	323	1350	100	257	0.652	-0.016	-0.001	0.649	16	16	12	7					0.103	0.076	0.046	Light	Light	Moderate
C	HPLZ2	323	1350	100	257	0.6	-0.014	-0.009	0.601	18	18	13	8	-0.052	0.002	-0.008	2	0.110	0.076	0.051	Light	Light	Moderate
A	HPLZ2	331	0	150	257	0.691	-0.011	-0.003	0.687	15	15	12	8					0.104	0.081	0.052	Light	Light	Moderate
C	HPLZ2	331	0	150	257	0.671	-0.012	-0.011	0.668	17	17	12	8	-0.02	-0.001	-0.008	2	0.116	0.082	0.054	Light	Light	Moderate
A	HPLZ2	332	675	150	257	0.688	-0.016	-0.002	0.684	16	16	12	7					0.108	0.079	0.051	Light	Light	Moderate
C	HPLZ2	332	675	150	257	0.667	-0.009	-0.01	0.665	16	16	13	8	-0.021	0.007	-0.008	0	0.110	0.085	0.053	Light	Light	Moderate
A	HPLZ2	333	1350	150	257	0.669	-0.015	-0.003	0.664	15	15	11	7					0.102	0.072	0.049	Light	Light	Moderate
C	HPLZ2	333	1350	150	257	0.647	-0.006	-0.01	0.646	17	17	13	8	-0.022	0.009	-0.007	2	0.113	0.081	0.053	Light	Light	Moderate
A	HPLZ2	341	0	250	257	0.728	-0.011	-0.007	0.721	15	15	11	8					0.108	0.076	0.056	Light	Light	Moderate
C	HPLZ2	341	0	250	257	0.717	-0.019	-0.005	0.712	16	16	12	8	-0.011	-0.008	0.002	1	0.113	0.087	0.057	Light	Light	Moderate
A	HPLZ2	342	675	250	257	0.719	-0.012	0	0.713	14	14	11	8					0.101	0.080	0.057	Light	Light	Moderate
C	HPLZ2	342	675	250	257	0.703	-0.015	-0.01	0.698	15	15	12	8	-0.016	-0.003	-0.01	1	0.103	0.082	0.056	Light	Light	Moderate
A	HPLZ2	343	1350	250	257	0.712	-0.018	-0.005	0.706	15	15	10	8					0.106	0.073	0.058	Light	Light	Moderate
C	HPLZ2	343	1350	250	257	0.695	-0.009	-0.011	0.690	15	15	11	8	-0.017	0.009	-0.006	0	0.106	0.078	0.055	Light	Light	Moderate
A	SLZ1	401	0	25	257	0.478	-0.029	0.004	0.489	21	22	16	9					0.105	0.076	0.044	Light	Light	Moderate
C	SLZ1	401	0	25	257	0.452	-0.022	0.005	0.465	21	22	17	10	-0.026	0.007	0.001	0	0.103	0.079	0.047	Light	Light	Moderate
A	SLZ1	402	575	25	257	0.514	0.013	-0.005	0.520	20	21	13	9					0.109	0.067	0.047	Light	Light	Moderate
C	SLZ1	402	575	25	257	0.492	0.023	-0.003	0.501	21	21	14	10	-0.022	0.01	0.002	1	0.107	0.068	0.048	Light	Light	Moderate
A	SLZ1	403	1150	25	257	0.547	-0.009	-0.005	0.550	18	18	13	7					0.102	0.072	0.041	Light	Light	Moderate
C	SLZ1	403	1150	25	257	0.552	-0.016	-0.006	0.554	18	18	12	7	0.005	-0.007	-0.001	0	0.101	0.067	0.041	Light	Light	Moderate
A	SLZ1	411	0	50	257	0.516	-0.026	0.001	0.523	20	20	14	9					0.105	0.072	0.049	Light	Light	Moderate
C	SLZ1	411	0	50	257	0.511	-0.031	0	0.519	20	21	14	10	-0.005	-0.005	-0.001	0	0.106	0.074	0.050	Light	Light	Moderate
A	SLZ1	412	575	50	257	0.567	0.011	-0.015	0.570	20	20	12	9					0.115	0.071	0.051	Light	Light	Moderate
C	SLZ1	412	575	50	257	0.54	0.013	-0.016	0.546	21	21	13	10	-0.027	0.002	-0.001	1	0.116	0.073	0.052	Light	Light	Moderate
A	SLZ1	413	1150	50	257	0.625	-0.008	-0.005	0.623	16	16	12	7					0.099	0.075	0.042	Light	Light	Moderate
C	SLZ1	413	1150	50	257	0.592	-0.002	-0.008	0.592	17	17	11	7	-0.033	0.006	-0.003	1	0.102	0.068	0.044	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	421	0	100	257	0.617	-0.02	-0.007	0.616	18	18	12	8					0.111	0.071	0.047	Light	Light	Moderate
C	SLZ1	421	0	100	257	0.591	-0.019	-0.006	0.592	18	18	13	8	-0.026	0.001	0.001	0	0.107	0.074	0.050	Light	Light	Moderate
A	SLZ1	422	575	100	257	0.649	-0.001	-0.017	0.647	17	17	12	7					0.109	0.081	0.047	Light	Light	Moderate
C	SLZ1	422	575	100	257	0.616	-0.004	-0.026	0.617	18	18	13	8	-0.033	-0.003	-0.009	1	0.112	0.078	0.048	Light	Light	Moderate
A	SLZ1	423	1150	100	257	0.668	-0.011	0	0.664	16	16	12	7					0.106	0.077	0.046	Light	Light	Moderate
C	SLZ1	423	1150	100	257	0.659	-0.001	-0.01	0.656	17	17	11	7	-0.009	0.01	-0.01	1	0.108	0.075	0.048	Light	Light	Moderate
A	SLZ1	431	0	150	257	0.654	-0.017	-0.007	0.650	16	16	11	7					0.102	0.072	0.047	Light	Light	Moderate
C	SLZ1	431	0	150	257	0.657	-0.017	-0.007	0.654	18	18	12	8	0.003	0	0	2	0.115	0.077	0.050	Light	Light	Moderate
A	SLZ1	432	575	150	257	0.673	-0.015	-0.012	0.668	15	15	11	7					0.101	0.076	0.049	Light	Light	Moderate
C	SLZ1	432	575	150	257	0.668	-0.007	-0.017	0.665	16	16	13	8	-0.005	0.008	-0.005	1	0.109	0.084	0.050	Light	Light	Moderate
A	SLZ1	433	1150	150	257	0.698	-0.009	-0.001	0.693	15	15	11	7					0.106	0.079	0.051	Light	Light	Moderate
C	SLZ1	433	1150	150	257	0.694	-0.009	-0.012	0.689	16	16	12	7	-0.004	0	-0.011	1	0.110	0.080	0.051	Light	Light	Moderate
A	SLZ1	441	0	250	257	0.708	-0.018	-0.004	0.702	14	14	11	8					0.099	0.079	0.056	Light	Light	Moderate
C	SLZ1	441	0	250	257	0.704	-0.018	-0.01	0.699	15	15	11	8	-0.004	0	-0.006	1	0.101	0.077	0.052	Light	Light	Moderate
A	SLZ1	442	575	250	257	0.721	-0.01	-0.012	0.715	16	15	11	8					0.111	0.075	0.058	Light	Light	Moderate
C	SLZ1	442	575	250	257	0.702	-0.016	-0.013	0.696	16	16	11	8	-0.019	-0.006	-0.001	0	0.109	0.079	0.056	Light	Light	Moderate
A	SLZ1	443	1150	250	257	0.733	-0.016	-0.002	0.727	15	15	11	8					0.106	0.081	0.057	Light	Light	Moderate
C	SLZ1	443	1150	250	257	0.737	-0.007	-0.016	0.730	14	14	11	8	0.004	0.009	-0.014	-1	0.104	0.079	0.060	Light	Light	Moderate
A	SLZ2	501	0	25	257	0.498	-0.007	-0.003	0.505	18	19	15	8					0.094	0.074	0.043	Light	Light	Light
C	SLZ2	501	0	25	257	0.484	-0.003	-0.002	0.493	19	20	16	9	-0.014	0.004	0.001	1	0.098	0.077	0.045	Light	Light	Moderate
A	SLZ2	502	575	25	257	0.54	-0.003	-0.006	0.543	17	18	12	8					0.096	0.067	0.044	Light	Light	Moderate
C	SLZ2	502	575	25	257	0.518	-0.002	-0.005	0.523	19	19	14	8	-0.022	0.001	0.001	2	0.100	0.072	0.044	Light	Light	Moderate
A	SLZ2	503	1150	25	257	0.57	-0.005	-0.003	0.572	17	17	13	7					0.099	0.073	0.041	Light	Light	Light
C	SLZ2	503	1150	25	257	0.567	-0.011	-0.004	0.568	17	17	12	7	-0.003	-0.006	-0.001	0	0.098	0.069	0.041	Light	Light	Light
A	SLZ2	511	0	50	257	0.545	-0.007	-0.005	0.549	19	19	14	9					0.104	0.076	0.048	Light	Light	Moderate
C	SLZ2	511	0	50	257	0.533	-0.017	-0.001	0.538	19	19	13	9	-0.012	-0.01	0.004	0	0.103	0.072	0.050	Light	Light	Moderate
A	SLZ2	512	575	50	257	0.583	0.002	-0.007	0.584	19	19	12	8					0.109	0.070	0.048	Light	Light	Moderate
C	SLZ2	512	575	50	257	0.556	0.003	-0.01	0.559	19	19	12	9	-0.027	0.001	-0.003	0	0.108	0.068	0.050	Light	Light	Moderate
A	SLZ2	513	1150	50	257	0.612	-0.008	0.002	0.610	16	16	12	7					0.100	0.071	0.042	Light	Light	Light
C	SLZ2	513	1150	50	257	0.612	-0.003	-0.005	0.611	16	16	12	7	0	0.005	-0.007	0	0.097	0.074	0.043	Light	Light	Light
A	SLZ2	521	0	100	257	0.607	-0.013	-0.009	0.607	18	18	12	8					0.108	0.074	0.049	Light	Light	Moderate
C	SLZ2	521	0	100	257	0.587	-0.011	-0.006	0.590	19	19	13	9	-0.02	0.002	0.003	1	0.113	0.075	0.054	Light	Light	Moderate
A	SLZ2	522	575	100	257	0.649	-0.002	-0.011	0.647	17	17	12	7					0.111	0.077	0.048	Light	Light	Moderate
C	SLZ2	522	575	100	257	0.615	-0.005	-0.013	0.615	19	19	12	9	-0.034	-0.003	-0.002	2	0.120	0.073	0.053	Light	Light	Moderate
A	SLZ2	523	1150	100	257	0.678	-0.012	0.001	0.673	15	15	12	7					0.101	0.078	0.047	Light	Light	Moderate
C	SLZ2	523	1150	100	257	0.664	-0.005	-0.007	0.660	16	16	11	7	-0.014	0.007	-0.008	1	0.104	0.072	0.046	Light	Light	Moderate
A	SLZ2	531	0	150	257	0.665	-0.012	-0.007	0.662	16	16	12	7					0.106	0.077	0.048	Light	Light	Moderate
C	SLZ2	531	0	150	257	0.634	-0.006	-0.01	0.634	18	18	13	8	-0.031	0.006	-0.003	2	0.112	0.081	0.053	Light	Light	Moderate
A	SLZ2	532	575	150	257	0.696	-0.008	-0.009	0.691	15	15	11	7					0.104	0.079	0.050	Light	Light	Moderate
C	SLZ2	532	575	150	257	0.662	-0.009	-0.011	0.659	17	17	12	8	-0.034	-0.001	-0.002	2	0.114	0.080	0.052	Light	Light	Moderate
A	SLZ2	533	1150	150	257	0.69	-0.015	0	0.684	14	14	11	7					0.092	0.075	0.049	Light	Light	Moderate
C	SLZ2	533	1150	150	257	0.682	-0.007	-0.009	0.677	16	16	11	7	-0.008	0.008	-0.009	2	0.109	0.076	0.049	Light	Light	Moderate
A	SLZ2	541	0	250	257	0.702	-0.014	0.001	0.697	14	14	12	8					0.098	0.081	0.055	Light	Light	Moderate
C	SLZ2	541	0	250	257	0.709	-0.013	-0.008	0.704	15	15	12	8	0.007	0.001	-0.009	1	0.103	0.081	0.058	Light	Light	Moderate
A	SLZ2	542	575	250	257	0.711	-0.014	-0.009	0.705	14	14	11	8					0.100	0.079	0.056	Light	Light	Moderate
C	SLZ2	542	575	250	257	0.717	-0.013	-0.011	0.712	14	14	11	8	0.006	0.001	-0.002	0	0.100	0.081	0.058	Light	Light	Moderate
A	SLZ2	543	1150	250	257	0.73	-0.018	-0.003	0.723	14	14	11	8					0.103	0.077	0.059	Light	Light	Moderate
C	SLZ2	543	1150	250	257	0.725	-0.008	-0.008	0.719	15	15	11	8	-0.005	0.01	-0.005	1	0.108	0.079	0.061	Light	Light	Moderate
A	Runway	101	0	25	279.5	0.502	-0.019	0.002	0.511	20	20	16	10					0.105	0.081	0.050	Light	Light	Moderate
C	Runway	101	0	25	279.5	0.503	-0.025	0.004	0.513	21	21	16	10	0.001	-0.006	0.002	1	0.109	0.083	0.051	Light	Light	Moderate
A	Runway	102	695	25	279.5	0.53	-0.009	0	0.536	19	19	15	8					0.100	0.078	0.042	Light	Light	Light
C	Runway	102	695	25	279.5	0.496	-0.021	0.001	0.504	19	19	14	9	-0.034	-0.012	0.001	0	0.095	0.072	0.044	Light	Light	Moderate
A	Runway	103	1389	25	279.5	0.524	0.002	-0.004	0.529	18	19	14	8					0.098	0.073	0.041	Light	Light	Light
C	Runway	103	1389	25	279.5	0.418	-0.033	0.004	0.438	22	24	20	12	-0.106	-0.035	0.008	4	0.103	0.087	0.053	Light	Light	Moderate
A	Runway	104	2064	25	279.5	0.514	-0.005	0.003	0.519	18	18	14	8					0.096	0.071	0.041	Light	Light	Light
C	Runway	104	2064	25	279.5	0.425	-0.011	0.004	0.442	21	23	19	11	-0.089	-0.006	0.001	3	0.101	0.085	0.050	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	Runway	105	2739	25	279.5	0.524	-0.004	-0.004	0.529	17	17	14	8					0.092	0.074	0.040	Light	Light	Light
C	Runway	105	2739	25	279.5	0.438	0.002	0.004	0.454	22	23	19	11	-0.086	0.006	0.008	5	0.106	0.085	0.050	Light	Light	Moderate
A	Runway	106	3300	25	279.5	0.51	-0.019	-0.002	0.515	18	18	14	8					0.092	0.070	0.041	Light	Light	Light
C	Runway	106	3300	25	279.5	0.479	-0.007	0.005	0.488	20	20	16	9	-0.031	0.012	0.007	2	0.097	0.078	0.043	Light	Light	Light
A	Runway	107	3875	25	279.5	0.322	-0.01	-0.01	0.372	26	36	28	21					0.132	0.104	0.078	Light	Light	Severe
C	Runway	107	3875	25	279.5	0.311	-0.007	-0.004	0.361	25	34	28	23	-0.011	0.003	0.006	-1	0.124	0.102	0.081	Light	Light	Severe
A	Runway	108	4450	25	279.5	0.538	0.006	-0.012	0.542	19	19	13	8					0.103	0.071	0.043	Light	Light	Light
C	Runway	108	4450	25	279.5	0.49	0.073	-0.013	0.506	20	20	17	10	-0.048	0.067	-0.001	1	0.102	0.085	0.053	Light	Light	Moderate
A	Runway	111	0	50	279.5	0.543	-0.019	-0.001	0.549	20	21	14	10					0.113	0.078	0.055	Light	Light	Moderate
C	Runway	111	0	50	279.5	0.554	-0.019	-0.002	0.561	21	22	15	10	0.011	0	-0.001	1	0.121	0.084	0.055	Light	Light	Moderate
A	Runway	112	695	50	279.5	0.577	-0.012	0.002	0.579	18	18	13	8					0.107	0.077	0.046	Light	Light	Moderate
C	Runway	112	695	50	279.5	0.55	-0.028	0.001	0.554	20	20	13	9	-0.027	-0.016	-0.001	2	0.110	0.074	0.048	Light	Light	Moderate
A	Runway	113	1389	50	279.5	0.568	-0.007	0	0.571	18	19	13	8					0.106	0.076	0.045	Light	Light	Moderate
C	Runway	113	1389	50	279.5	0.473	-0.032	-0.008	0.489	23	25	17	12	-0.095	-0.025	-0.008	5	0.122	0.083	0.059	Light	Light	Moderate
A	Runway	114	2064	50	279.5	0.574	-0.003	0.001	0.575	17	17	13	7					0.098	0.076	0.042	Light	Light	Light
C	Runway	114	2064	50	279.5	0.481	-0.022	-0.004	0.494	23	24	17	11	-0.093	-0.019	-0.005	6	0.119	0.086	0.054	Light	Light	Moderate
A	Runway	115	2739	50	279.5	0.564	0	0	0.566	18	18	13	7					0.101	0.072	0.042	Light	Light	Light
C	Runway	115	2739	50	279.5	0.483	-0.003	-0.004	0.494	22	23	16	11	-0.081	-0.003	-0.004	4	0.113	0.079	0.054	Light	Light	Moderate
A	Runway	116	3300	50	279.5	0.55	-0.022	0.002	0.553	17	18	13	8					0.097	0.070	0.044	Light	Light	Moderate
C	Runway	116	3300	50	279.5	0.533	-0.008	-0.002	0.538	18	18	13	9	-0.017	0.014	-0.004	1	0.099	0.072	0.048	Light	Light	Moderate
A	Runway	117	3875	50	279.5	0.443	-0.004	-0.039	0.466	25	28	20	14					0.131	0.091	0.067	Light	Light	Moderate
C	Runway	117	3875	50	279.5	0.406	0.003	-0.031	0.433	26	30	21	16	-0.037	0.007	0.008	1	0.129	0.092	0.068	Light	Light	Moderate
A	Runway	118	4450	50	279.5	0.613	-0.002	-0.008	0.612	18	18	12	7					0.108	0.075	0.043	Light	Light	Light
C	Runway	118	4450	50	279.5	0.538	0.026	-0.036	0.547	20	20	14	11	-0.075	0.028	-0.028	2	0.111	0.078	0.059	Light	Light	Moderate
A	Runway	121	0	100	279.5	0.627	-0.013	-0.008	0.628	20	20	13	9					0.125	0.085	0.054	Light	Light	Moderate
C	Runway	121	0	100	279.5	0.613	-0.016	-0.006	0.615	19	20	14	9	-0.014	-0.003	0.002	-1	0.121	0.083	0.053	Light	Light	Moderate
A	Runway	122	695	100	279.5	0.634	-0.016	-0.005	0.634	17	18	13	8					0.111	0.080	0.049	Light	Light	Moderate
C	Runway	122	695	100	279.5	0.608	-0.029	-0.003	0.609	18	18	12	8	-0.026	-0.013	0.002	1	0.113	0.076	0.051	Light	Light	Moderate
A	Runway	123	1389	100	279.5	0.627	-0.01	-0.001	0.626	17	17	13	8					0.107	0.080	0.048	Light	Light	Moderate
C	Runway	123	1389	100	279.5	0.585	-0.013	-0.016	0.588	19	20	13	9	-0.042	-0.003	-0.015	2	0.117	0.077	0.054	Light	Light	Moderate
A	Runway	124	2064	100	279.5	0.624	-0.004	-0.001	0.624	18	17	13	8					0.109	0.081	0.049	Light	Light	Moderate
C	Runway	124	2064	100	279.5	0.578	-0.013	-0.013	0.583	21	22	14	9	-0.046	-0.009	-0.012	3	0.126	0.083	0.054	Light	Light	Moderate
A	Runway	125	2739	100	279.5	0.63	-0.004	-0.003	0.628	17	17	12	7					0.105	0.076	0.047	Light	Light	Moderate
C	Runway	125	2739	100	279.5	0.575	0	-0.009	0.578	20	20	13	9	-0.055	0.004	-0.006	3	0.118	0.077	0.054	Light	Light	Moderate
A	Runway	126	3300	100	279.5	0.631	-0.021	-0.002	0.629	18	18	12	7					0.112	0.073	0.047	Light	Light	Moderate
C	Runway	126	3300	100	279.5	0.601	-0.017	-0.009	0.601	18	18	12	9	-0.03	0.004	-0.007	0	0.107	0.073	0.052	Light	Light	Moderate
A	Runway	127	3875	100	279.5	0.617	-0.006	-0.036	0.619	18	18	13	8					0.112	0.080	0.048	Light	Light	Moderate
C	Runway	127	3875	100	279.5	0.569	-0.005	-0.03	0.574	20	21	14	9	-0.048	0.001	0.006	2	0.119	0.080	0.054	Light	Light	Moderate
A	Runway	128	4450	100	279.5	0.669	-0.008	-0.004	0.665	15	15	11	7					0.100	0.075	0.046	Light	Light	Moderate
C	Runway	128	4450	100	279.5	0.624	-0.012	-0.039	0.624	19	19	12	8	-0.045	-0.004	-0.035	4	0.119	0.075	0.050	Light	Light	Moderate
A	Runway	131	0	150	279.5	0.69	-0.012	-0.008	0.687	17	17	12	8					0.118	0.085	0.056	Light	Light	Moderate
C	Runway	131	0	150	279.5	0.684	-0.011	-0.008	0.681	17	17	13	8	-0.006	0.001	0	0	0.116	0.087	0.056	Light	Light	Moderate
A	Runway	132	695	150	279.5	0.661	-0.014	-0.001	0.659	17	17	12	9					0.115	0.076	0.056	Light	Light	Moderate
C	Runway	132	695	150	279.5	0.671	-0.032	-0.006	0.669	17	17	12	8	0.01	-0.018	-0.005	0	0.117	0.081	0.055	Light	Light	Moderate
A	Runway	133	1389	150	279.5	0.671	-0.011	-0.004	0.669	18	18	12	8					0.118	0.081	0.056	Light	Light	Moderate
C	Runway	133	1389	150	279.5	0.642	-0.016	-0.013	0.641	18	18	13	9	-0.029	-0.005	-0.009	0	0.115	0.081	0.055	Light	Light	Moderate
A	Runway	134	2064	150	279.5	0.658	-0.009	-0.003	0.655	16	16	12	8					0.104	0.076	0.054	Light	Light	Moderate
C	Runway	134	2064	150	279.5	0.649	-0.019	-0.015	0.648	17	17	12	8	-0.009	-0.01	-0.012	1	0.111	0.079	0.053	Light	Light	Moderate
A	Runway	135	2739	150	279.5	0.651	-0.01	0	0.649	17	17	13	8					0.107	0.081	0.050	Light	Light	Moderate
C	Runway	135	2739	150	279.5	0.638	-0.008	-0.005	0.637	18	18	13	8	-0.013	0.002	-0.005	1	0.114	0.081	0.052	Light	Light	Moderate
A	Runway	136	3300	150	279.5	0.67	-0.023	-0.002	0.666	16	16	11	8					0.106	0.075	0.051	Light	Light	Moderate
C	Runway	136	3300	150	279.5	0.655	-0.02	-0.008	0.652	17	17	12	8	-0.015	0.003	-0.006	1	0.110	0.076	0.051	Light	Light	Moderate
A	Runway	137	3875	150	279.5	0.675	-0.008	-0.022	0.671	16	15	11	7					0.104	0.077	0.048	Light	Light	Moderate
C	Runway	137	3875	150	279.5	0.635	-0.006	-0.018	0.634	17	17	12	8	-0.04	0.002	0.004	1	0.107	0.077	0.054	Light	Light	Moderate
A	Runway	138	4450	150	279.5	0.695	-0.011	-0.004	0.690	15	15	11	8					0.100	0.077	0.052	Light	Light	Moderate
C	Runway	138	4450	150	279.5	0.681	-0.02	-0.03	0.677	17	17	11	7	-0.014	-0.009	-0.026	2	0.114	0.075	0.049	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	U	V	W	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	141	0	250	279.5	0.739	-0.012	-0.005	0.732	15	15	11	8					0.109	0.080	0.058	Light	Light	Moderate
C	Runway	141	0	250	279.5	0.733	-0.011	-0.003	0.727	16	16	11	8	-0.006	0.001	0.002	1	0.115	0.083	0.059	Light	Light	Moderate
A	Runway	142	695	250	279.5	0.742	-0.014	-0.01	0.735	15	15	11	8					0.110	0.082	0.059	Light	Light	Moderate
C	Runway	142	695	250	279.5	0.718	-0.018	-0.013	0.713	16	15	11	8	-0.024	-0.004	-0.003	1	0.110	0.081	0.060	Light	Light	Moderate
A	Runway	143	1389	250	279.5	0.719	-0.016	-0.006	0.713	14	14	11	8					0.099	0.078	0.056	Light	Light	Moderate
C	Runway	143	1389	250	279.5	0.706	-0.019	-0.015	0.701	16	16	11	8	-0.013	-0.003	-0.009	2	0.112	0.080	0.055	Light	Light	Moderate
A	Runway	144	2064	250	279.5	0.706	-0.002	-0.003	0.700	15	15	11	8					0.102	0.079	0.056	Light	Light	Moderate
C	Runway	144	2064	250	279.5	0.696	-0.007	-0.012	0.691	16	16	12	8	-0.01	-0.005	-0.009	1	0.111	0.079	0.057	Light	Light	Moderate
A	Runway	145	2739	250	279.5	0.72	-0.006	-0.004	0.714	14	14	11	8					0.101	0.079	0.055	Light	Light	Moderate
C	Runway	145	2739	250	279.5	0.702	-0.01	-0.012	0.697	15	15	12	8	-0.018	-0.004	-0.008	1	0.108	0.082	0.057	Light	Light	Moderate
A	Runway	146	3300	250	279.5	0.718	-0.019	-0.007	0.712	15	15	11	8					0.105	0.078	0.058	Light	Light	Moderate
C	Runway	146	3300	250	279.5	0.695	-0.011	-0.005	0.690	15	15	11	9	-0.023	0.008	0.002	0	0.106	0.075	0.059	Light	Light	Moderate
A	Runway	147	3875	250	279.5	0.72	-0.01	-0.013	0.713	15	15	11	8					0.107	0.076	0.057	Light	Light	Moderate
C	Runway	147	3875	250	279.5	0.718	-0.008	-0.019	0.711	14	14	10	8	-0.002	0.002	-0.006	-1	0.100	0.074	0.055	Light	Light	Moderate
A	Runway	148	4450	250	279.5	0.739	-0.012	-0.009	0.732	14	14	11	8					0.104	0.079	0.060	Light	Light	Moderate
C	Runway	148	4450	250	279.5	0.713	-0.017	-0.022	0.707	15	15	11	8	-0.026	-0.005	-0.013	1	0.107	0.075	0.058	Light	Light	Moderate
A	HPLZ1	201	0	25	279.5	0.535	-0.004	-0.006	0.539	17	17	14	8					0.093	0.074	0.042	Light	Light	Light
C	HPLZ1	201	0	25	279.5	0.471	-0.025	0.003	0.483	21	22	17	10	-0.064	-0.021	0.009	4	0.104	0.084	0.049	Light	Light	Moderate
A	HPLZ1	202	675	25	279.5	0.512	-0.005	-0.009	0.518	18	18	14	8					0.091	0.072	0.042	Light	Light	Light
C	HPLZ1	202	675	25	279.5	0.474	-0.017	-0.004	0.485	21	21	17	10	-0.038	-0.012	0.005	3	0.103	0.082	0.048	Light	Light	Moderate
A	HPLZ1	203	1350	25	279.5	0.54	0.006	0.003	0.543	16	16	13	7					0.089	0.071	0.038	Light	Light	Light
C	HPLZ1	203	1350	25	279.5	0.479	-0.002	0.003	0.489	20	20	16	9	-0.061	-0.008	0	4	0.098	0.080	0.045	Light	Light	Moderate
A	HPLZ1	211	0	50	279.5	0.589	-0.007	-0.004	0.590	18	18	13	8					0.105	0.078	0.046	Light	Light	Moderate
C	HPLZ1	211	0	50	279.5	0.518	-0.029	-0.004	0.526	20	21	15	10	-0.071	-0.022	0	2	0.109	0.081	0.055	Light	Light	Moderate
A	HPLZ1	212	675	50	279.5	0.578	-0.003	-0.004	0.579	17	17	13	8					0.100	0.076	0.044	Light	Light	Moderate
C	HPLZ1	212	675	50	279.5	0.515	-0.02	-0.003	0.524	22	22	16	10	-0.063	-0.017	0.001	5	0.115	0.082	0.054	Light	Light	Moderate
A	HPLZ1	213	1350	50	279.5	0.6	-0.004	0.004	0.599	16	16	12	7					0.097	0.073	0.042	Light	Light	Light
C	HPLZ1	213	1350	50	279.5	0.517	-0.005	-0.001	0.524	20	20	14	9	-0.083	-0.001	-0.005	4	0.106	0.076	0.049	Light	Light	Moderate
A	HPLZ1	221	0	100	279.5	0.625	-0.004	-0.003	0.624	18	18	12	8					0.109	0.078	0.051	Light	Light	Moderate
C	HPLZ1	221	0	100	279.5	0.589	-0.02	-0.013	0.592	20	20	13	9	-0.036	-0.016	-0.01	2	0.119	0.079	0.053	Light	Light	Moderate
A	HPLZ1	222	675	100	279.5	0.634	-0.015	-0.001	0.633	17	17	13	8					0.106	0.080	0.049	Light	Light	Moderate
C	HPLZ1	222	675	100	279.5	0.582	-0.012	-0.008	0.585	20	21	14	9	-0.052	0.003	-0.007	3	0.120	0.082	0.053	Light	Light	Moderate
A	HPLZ1	223	1350	100	279.5	0.631	0.003	0.001	0.630	17	17	12	7					0.104	0.077	0.047	Light	Light	Moderate
C	HPLZ1	223	1350	100	279.5	0.597	-0.001	-0.007	0.599	20	20	13	9	-0.034	-0.004	-0.008	3	0.119	0.078	0.054	Light	Light	Moderate
A	HPLZ1	231	0	150	279.5	0.67	-0.009	-0.005	0.666	16	16	12	8					0.104	0.079	0.053	Light	Light	Moderate
C	HPLZ1	231	0	150	279.5	0.641	-0.016	-0.011	0.641	19	19	13	8	-0.029	-0.007	-0.006	3	0.122	0.083	0.053	Light	Light	Moderate
A	HPLZ1	232	675	150	279.5	0.668	-0.008	-0.001	0.664	16	16	12	8					0.106	0.081	0.051	Light	Light	Moderate
C	HPLZ1	232	675	150	279.5	0.647	-0.009	-0.01	0.646	17	18	13	8	-0.021	-0.001	-0.009	1	0.113	0.083	0.053	Light	Light	Moderate
A	HPLZ1	233	1350	150	279.5	0.668	-0.002	-0.002	0.664	16	16	12	8					0.103	0.077	0.051	Light	Light	Moderate
C	HPLZ1	233	1350	150	279.5	0.64	-0.003	-0.004	0.638	19	19	12	8	-0.028	-0.001	-0.002	3	0.122	0.079	0.051	Light	Light	Moderate
A	HPLZ1	241	0	250	279.5	0.724	-0.014	-0.007	0.718	16	16	11	8					0.113	0.078	0.056	Light	Light	Moderate
C	HPLZ1	241	0	250	279.5	0.708	-0.014	-0.012	0.703	16	16	12	8	-0.016	0	-0.005	0	0.115	0.081	0.058	Light	Light	Moderate
A	HPLZ1	242	675	250	279.5	0.71	-0.007	-0.005	0.704	15	15	11	8					0.102	0.081	0.055	Light	Light	Moderate
C	HPLZ1	242	675	250	279.5	0.716	-0.016	-0.013	0.711	15	15	12	8	0.006	-0.009	-0.008	0	0.109	0.083	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	279.5	0.715	-0.004	-0.005	0.709	15	14	11	8					0.103	0.080	0.055	Light	Light	Moderate
C	HPLZ1	243	1350	250	279.5	0.686	-0.008	-0.003	0.683	17	17	12	8	-0.029	-0.004	0.002	2	0.116	0.081	0.058	Light	Light	Moderate
A	HPLZ2	301	0	25	279.5	0.54	-0.007	-0.004	0.544	18	18	14	8					0.096	0.074	0.042	Light	Light	Light
C	HPLZ2	301	0	25	279.5	0.517	-0.021	-0.001	0.524	20	19	15	8	-0.023	-0.014	0.003	2	0.102	0.080	0.044	Light	Light	Moderate
A	HPLZ2	302	675	25	279.5	0.539	-0.009	-0.009	0.542	18	18	13	8					0.099	0.071	0.041	Light	Light	Light
C	HPLZ2	302	675	25	279.5	0.493	-0.02	0.001	0.502	20	20	16	9	-0.046	-0.011	0.01	2	0.101	0.080	0.045	Light	Light	Moderate
A	HPLZ2	303	1350	25	279.5	0.549	-0.012	-0.008	0.552	16	17	13	7					0.091	0.073	0.039	Light	Light	Light
C	HPLZ2	303	1350	25	279.5	0.497	-0.01	-0.004	0.505	19	20	15	9	-0.052	0.002	0.004	3	0.100	0.078	0.045	Light	Light	Moderate
A	HPLZ2	311	0	50	279.5	0.575	-0.004	0	0.577	17	17	13	7					0.100	0.074	0.042	Light	Light	Light
C	HPLZ2	311	0	50	279.5	0.544	-0.016	0	0.550	18	18	15	10	-0.031	-0.012	0	1	0.102	0.082	0.053	Light	Light	Moderate
A	HPLZ2	312	675	50	279.5	0.591	-0.006	-0.001	0.592	17	17	13	7					0.101	0.074	0.043	Light	Light	Light
C	HPLZ2	312	675	50	279.5	0.551	-0.014	-0.003	0.556	20	20	15	9	-0.04	-0.008	-0.002	3	0.112	0.081	0.049	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	313	1350	50	279.5	0.608	-0.005	-0.005	0.607	17	17	12	7					0.103	0.075	0.042	Light	Light	Light
C	HPLZ2	313	1350	50	279.5	0.538	-0.011	-0.002	0.545	19	20	15	9	-0.07	-0.006	0.003	2	0.108	0.084	0.051	Light	Light	Moderate
A	HPLZ2	321	0	100	279.5	0.638	-0.011	-0.003	0.635	17	17	12	8					0.108	0.074	0.050	Light	Light	Moderate
C	HPLZ2	321	0	100	279.5	0.618	-0.023	-0.007	0.619	19	20	13	8	-0.02	-0.012	-0.004	2	0.121	0.083	0.051	Light	Light	Moderate
A	HPLZ2	322	675	100	279.5	0.632	-0.004	0.001	0.631	17	17	13	8					0.110	0.080	0.050	Light	Light	Moderate
C	HPLZ2	322	675	100	279.5	0.601	-0.012	-0.006	0.602	19	19	13	9	-0.031	-0.008	-0.007	2	0.114	0.080	0.053	Light	Light	Moderate
A	HPLZ2	323	1350	100	279.5	0.642	-0.006	-0.005	0.640	16	16	12	7					0.102	0.075	0.048	Light	Light	Moderate
C	HPLZ2	323	1350	100	279.5	0.596	-0.017	-0.004	0.599	20	20	14	9	-0.046	-0.011	0.001	4	0.120	0.083	0.054	Light	Light	Moderate
A	HPLZ2	331	0	150	279.5	0.672	-0.012	-0.003	0.668	17	17	11	8					0.112	0.073	0.054	Light	Light	Moderate
C	HPLZ2	331	0	150	279.5	0.647	-0.014	-0.005	0.646	18	19	12	8	-0.025	-0.002	-0.002	1	0.120	0.079	0.055	Light	Light	Moderate
A	HPLZ2	332	675	150	279.5	0.667	-0.011	-0.004	0.663	16	16	12	8					0.109	0.077	0.051	Light	Light	Moderate
C	HPLZ2	332	675	150	279.5	0.63	-0.011	-0.006	0.629	19	19	12	9	-0.037	0	-0.002	3	0.118	0.077	0.054	Light	Light	Moderate
A	HPLZ2	333	1350	150	279.5	0.672	-0.007	-0.005	0.668	15	16	12	8					0.104	0.080	0.052	Light	Light	Moderate
C	HPLZ2	333	1350	150	279.5	0.643	-0.007	-0.009	0.642	18	18	13	9	-0.029	0	-0.004	3	0.116	0.081	0.055	Light	Light	Moderate
A	HPLZ2	341	0	250	279.5	0.733	-0.008	-0.009	0.727	15	15	11	8					0.110	0.083	0.059	Light	Light	Moderate
C	HPLZ2	341	0	250	279.5	0.726	-0.013	-0.013	0.720	15	16	11	8	-0.007	-0.005	-0.004	0	0.112	0.083	0.061	Light	Light	Moderate
A	HPLZ2	342	675	250	279.5	0.708	-0.012	-0.003	0.703	15	15	12	8					0.108	0.083	0.058	Light	Light	Moderate
C	HPLZ2	342	675	250	279.5	0.701	-0.007	-0.005	0.696	16	16	12	8	-0.007	0.005	-0.002	1	0.109	0.082	0.057	Light	Light	Moderate
A	HPLZ2	343	1350	250	279.5	0.704	-0.013	-0.005	0.699	15	15	11	8					0.104	0.079	0.056	Light	Light	Moderate
C	HPLZ2	343	1350	250	279.5	0.699	-0.009	-0.005	0.694	16	16	12	8	-0.005	0.004	0	1	0.113	0.080	0.057	Light	Light	Moderate
A	SLZ1	401	0	25	279.5	0.519	-0.016	-0.003	0.525	18	18	14	8					0.096	0.073	0.042	Light	Light	Light
C	SLZ1	401	0	25	279.5	0.492	-0.011	0.001	0.501	18	18	16	9	-0.027	0.005	0.004	0	0.092	0.079	0.043	Light	Light	Light
A	SLZ1	402	575	25	279.5	0.42	-0.017	0	0.442	24	26	21	13					0.116	0.095	0.059	Light	Light	Moderate
C	SLZ1	402	575	25	279.5	0.408	-0.015	0.001	0.429	22	24	21	13	-0.012	0.002	0.001	-2	0.104	0.090	0.057	Light	Light	Moderate
A	SLZ1	403	1150	25	279.5	0.524	-0.013	-0.008	0.529	19	19	14	8					0.103	0.076	0.044	Light	Light	Moderate
C	SLZ1	403	1150	25	279.5	0.455	0.065	0	0.474	22	22	18	11	-0.069	0.078	0.008	3	0.106	0.087	0.054	Light	Light	Moderate
A	SLZ1	411	0	50	279.5	0.575	-0.017	0.002	0.576	17	18	13	7					0.101	0.072	0.041	Light	Light	Light
C	SLZ1	411	0	50	279.5	0.552	-0.01	-0.001	0.555	19	19	13	9	-0.023	0.007	-0.003	2	0.106	0.073	0.048	Light	Light	Moderate
A	SLZ1	412	575	50	279.5	0.478	-0.014	-0.008	0.493	24	25	18	13					0.126	0.087	0.062	Light	Light	Moderate
C	SLZ1	412	575	50	279.5	0.459	-0.015	-0.007	0.475	23	24	18	13	-0.019	-0.001	0.001	-1	0.113	0.086	0.060	Light	Light	Moderate
A	SLZ1	413	1150	50	279.5	0.593	-0.005	-0.009	0.594	19	19	13	7					0.114	0.077	0.043	Light	Light	Light
C	SLZ1	413	1150	50	279.5	0.507	0.04	-0.008	0.520	23	23	16	13	-0.086	0.045	0.001	-4	0.120	0.082	0.068	Light	Light	Moderate
A	SLZ1	421	0	100	279.5	0.636	-0.021	-0.002	0.633	16	16	11	7					0.104	0.073	0.046	Light	Light	Moderate
C	SLZ1	421	0	100	279.5	0.606	-0.01	-0.002	0.606	19	19	12	8	-0.03	0.011	0	3	0.116	0.075	0.050	Light	Light	Moderate
A	SLZ1	422	575	100	279.5	0.604	-0.007	-0.019	0.605	20	20	13	8					0.122	0.079	0.051	Light	Light	Moderate
C	SLZ1	422	575	100	279.5	0.571	-0.007	-0.018	0.576	21	22	14	10	-0.033	0	0.001	1	0.125	0.082	0.056	Light	Light	Moderate
A	SLZ1	423	1150	100	279.5	0.654	-0.012	-0.004	0.651	17	17	12	7					0.108	0.075	0.047	Light	Light	Moderate
C	SLZ1	423	1150	100	279.5	0.55	-0.006	-0.02	0.560	25	26	16	12	-0.104	0.006	-0.016	8	0.144	0.088	0.065	Light	Light	Moderate
A	SLZ1	431	0	150	279.5	0.673	-0.016	-0.003	0.669	17	17	11	8					0.111	0.074	0.050	Light	Light	Moderate
C	SLZ1	431	0	150	279.5	0.641	-0.01	-0.006	0.639	17	17	12	8	-0.032	0.006	-0.003	0	0.109	0.074	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	279.5	0.666	-0.016	-0.015	0.663	16	16	12	7					0.107	0.078	0.048	Light	Light	Moderate
C	SLZ1	432	575	150	279.5	0.64	-0.006	-0.015	0.638	17	17	12	8	-0.026	0.01	0	1	0.112	0.075	0.051	Light	Light	Moderate
A	SLZ1	433	1150	150	279.5	0.696	-0.014	-0.006	0.691	15	15	11	7					0.103	0.076	0.051	Light	Light	Moderate
C	SLZ1	433	1150	150	279.5	0.633	-0.018	-0.016	0.634	21	21	13	9	-0.063	-0.004	-0.01	6	0.132	0.082	0.058	Light	Light	Moderate
A	SLZ1	441	0	250	279.5	0.717	-0.015	-0.003	0.711	14	14	11	8					0.102	0.081	0.056	Light	Light	Moderate
C	SLZ1	441	0	250	279.5	0.702	-0.017	-0.009	0.697	14	14	11	8	-0.015	-0.002	-0.006	0	0.099	0.078	0.055	Light	Light	Moderate
A	SLZ1	442	575	250	279.5	0.714	-0.018	-0.012	0.707	14	14	10	8					0.100	0.073	0.055	Light	Light	Moderate
C	SLZ1	442	575	250	279.5	0.709	-0.01	-0.012	0.703	15	15	11	8	-0.005	0.008	0	1	0.107	0.081	0.054	Light	Light	Moderate
A	SLZ1	443	1150	250	279.5	0.718	-0.005	-0.004	0.712	14	14	11	8					0.099	0.076	0.056	Light	Light	Moderate
C	SLZ1	443	1150	250	279.5	0.716	-0.019	-0.011	0.710	15	16	11	8	-0.002	-0.014	-0.007	1	0.110	0.080	0.059	Light	Light	Moderate
A	SLZ2	501	0	25	279.5	0.51	-0.007	-0.009	0.515	18	18	13	8					0.094	0.065	0.042	Light	Light	Light
C	SLZ2	501	0	25	279.5	0.48	-0.003	-0.003	0.489	20	21	16	9	-0.03	0.004	0.006	2	0.103	0.077	0.045	Light	Light	Moderate
A	SLZ2	502	575	25	279.5	0.516	-0.023	-0.008	0.522	18	18	13	9					0.093	0.070	0.046	Light	Light	Moderate
C	SLZ2	502	575	25	279.5	0.511	-0.016	-0.005	0.518	19	20	14	9	-0.005	0.007	0.003	1	0.102	0.075	0.047	Light	Light	Moderate
A	SLZ2	503	1150	25	279.5	0.536	-0.013	-0.004	0.540	18	19	13	8					0.100	0.072	0.043	Light	Light	Light
C	SLZ2	503	1150	25	279.5	0.47	0.028	0.01	0.487	22	22	22	11	-0.066	0.041	0.014	-4	0.109	0.105	0.051	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	SLZ2	511	0	50	279.5	0.582	-0.007	-0.004	0.582	17	17	12	7					0.099	0.068	0.042	Light	Light	Light
C	SLZ2	511	0	50	279.5	0.533	0	-0.002	0.538	19	19	14	9	-0.049	0.007	0.002	2	0.102	0.073	0.048	Light	Light	Moderate
A	SLZ2	512	575	50	279.5	0.552	-0.016	-0.009	0.557	20	20	14	9					0.113	0.078	0.050	Light	Light	Moderate
C	SLZ2	512	575	50	279.5	0.553	-0.014	-0.009	0.557	19	19	13	9	0.001	0.002	0	-1	0.106	0.075	0.051	Light	Light	Moderate
A	SLZ2	513	1150	50	279.5	0.585	-0.006	-0.002	0.586	18	18	13	8					0.107	0.075	0.047	Light	Light	Moderate
C	SLZ2	513	1150	50	279.5	0.482	0.016	0.013	0.497	22	22	20	12	-0.103	0.022	0.015	4	0.111	0.099	0.059	Light	Light	Moderate
A	SLZ2	521	0	100	279.5	0.648	-0.018	-0.005	0.645	16	16	11	7					0.101	0.071	0.045	Light	Light	Moderate
C	SLZ2	521	0	100	279.5	0.605	-0.014	-0.008	0.605	17	17	12	9	-0.043	0.004	-0.003	1	0.106	0.071	0.051	Light	Light	Moderate
A	SLZ2	522	575	100	279.5	0.622	-0.015	-0.013	0.622	18	18	13	8					0.111	0.079	0.049	Light	Light	Moderate
C	SLZ2	522	575	100	279.5	0.612	-0.009	-0.01	0.612	18	19	12	9	-0.01	0.006	0.003	0	0.114	0.074	0.052	Light	Light	Moderate
A	SLZ2	523	1150	100	279.5	0.638	-0.01	-0.007	0.636	17	17	11	7					0.109	0.073	0.048	Light	Light	Moderate
C	SLZ2	523	1150	100	279.5	0.564	-0.012	-0.001	0.571	23	23	15	11	-0.074	-0.002	0.008	6	0.131	0.087	0.064	Light	Light	Moderate
A	SLZ2	531	0	150	279.5	0.67	-0.01	-0.006	0.666	14	14	11	8					0.096	0.076	0.051	Light	Light	Moderate
C	SLZ2	531	0	150	279.5	0.637	-0.013	-0.004	0.635	18	18	12	8	-0.033	-0.003	0.002	4	0.116	0.075	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	279.5	0.673	-0.013	-0.011	0.669	15	15	12	8					0.101	0.078	0.051	Light	Light	Moderate
C	SLZ2	532	575	150	279.5	0.651	-0.006	-0.01	0.649	17	17	13	8	-0.022	0.007	0.001	2	0.110	0.082	0.052	Light	Light	Moderate
A	SLZ2	533	1150	150	279.5	0.686	-0.014	-0.009	0.681	15	15	11	8					0.101	0.075	0.051	Light	Light	Moderate
C	SLZ2	533	1150	150	279.5	0.623	-0.009	-0.009	0.624	19	19	12	10	-0.063	0.005	0	4	0.121	0.076	0.061	Light	Light	Moderate
A	SLZ2	541	0	250	279.5	0.723	-0.012	-0.009	0.716	14	14	11	8					0.099	0.075	0.056	Light	Light	Moderate
C	SLZ2	541	0	250	279.5	0.693	-0.01	-0.007	0.688	16	16	12	8	-0.03	0.002	0.002	2	0.108	0.081	0.057	Light	Light	Moderate
A	SLZ2	542	575	250	279.5	0.701	-0.014	-0.004	0.696	14	14	12	8					0.095	0.080	0.055	Light	Light	Moderate
C	SLZ2	542	575	250	279.5	0.705	-0.014	-0.01	0.699	15	15	11	8	0.004	0	-0.006	1	0.108	0.076	0.056	Light	Light	Moderate
A	SLZ2	543	1150	250	279.5	0.72	-0.005	-0.004	0.713	14	14	11	8					0.100	0.077	0.058	Light	Light	Moderate
C	SLZ2	543	1150	250	279.5	0.702	-0.014	-0.006	0.697	16	16	11	8	-0.018	-0.009	-0.002	2	0.110	0.078	0.059	Light	Light	Moderate
A	Runway	101	0	25	302	0.507	-0.015	0	0.514	19	19	15	8					0.098	0.075	0.043	Light	Light	Light
C	Runway	101	0	25	302	0.518	-0.017	-0.001	0.525	19	19	15	9	0.011	-0.002	-0.001	0	0.102	0.079	0.046	Light	Light	Moderate
A	Runway	102	695	25	302	0.501	-0.011	0.003	0.508	20	20	14	8					0.100	0.072	0.042	Light	Light	Light
C	Runway	102	695	25	302	0.5	-0.025	0	0.507	19	19	14	8	-0.001	-0.014	-0.003	-1	0.096	0.073	0.040	Light	Light	Light
A	Runway	103	1389	25	302	0.514	-0.005	-0.005	0.519	18	18	14	8					0.092	0.071	0.041	Light	Light	Light
C	Runway	103	1389	25	302	0.537	-0.041	-0.004	0.542	18	18	13	8	0.023	-0.036	0.001	0	0.100	0.070	0.041	Light	Light	Light
A	Runway	104	2064	25	302	0.525	-0.004	-0.001	0.530	18	18	14	7					0.097	0.075	0.039	Light	Light	Light
C	Runway	104	2064	25	302	0.474	-0.039	0.006	0.487	20	20	17	9	-0.051	-0.035	0.007	2	0.099	0.081	0.045	Light	Light	Moderate
A	Runway	105	2739	25	302	0.519	-0.004	-0.005	0.524	19	19	13	8					0.100	0.070	0.041	Light	Light	Light
C	Runway	105	2739	25	302	0.462	-0.034	0.003	0.474	20	20	16	9	-0.057	-0.03	0.008	1	0.096	0.076	0.044	Light	Light	Moderate
A	Runway	106	3300	25	302	0.525	-0.01	0.001	0.530	17	17	13	7					0.092	0.071	0.039	Light	Light	Light
C	Runway	106	3300	25	302	0.439	0.002	0.009	0.456	23	24	20	11	-0.086	0.012	0.008	6	0.107	0.092	0.052	Light	Light	Moderate
A	Runway	107	3875	25	302	0.44	-0.044	-0.006	0.457	22	23	16	12					0.105	0.074	0.056	Light	Light	Moderate
C	Runway	107	3875	25	302	0.439	-0.042	-0.004	0.458	23	25	18	12	-0.001	0.002	0.002	1	0.113	0.084	0.056	Light	Light	Moderate
A	Runway	108	4450	25	302	0.458	-0.038	-0.002	0.474	22	23	18	12					0.108	0.086	0.055	Light	Light	Moderate
C	Runway	108	4450	25	302	0.321	-0.016	0.02	0.373	28	34	34	20	-0.137	0.022	0.022	6	0.126	0.126	0.074	Light	Light	Moderate
A	Runway	111	0	50	302	0.555	-0.015	-0.002	0.560	20	20	14	9					0.111	0.080	0.048	Light	Light	Moderate
C	Runway	111	0	50	302	0.57	-0.018	-0.001	0.574	19	19	14	9	0.015	-0.003	0.001	-1	0.109	0.080	0.049	Light	Light	Moderate
A	Runway	112	695	50	302	0.542	-0.012	0.004	0.547	19	19	13	9					0.102	0.072	0.047	Light	Light	Moderate
C	Runway	112	695	50	302	0.544	-0.022	0.001	0.548	19	19	13	9	0.002	-0.01	-0.003	0	0.103	0.069	0.048	Light	Light	Moderate
A	Runway	113	1389	50	302	0.582	-0.006	0.001	0.584	18	18	13	8					0.105	0.074	0.045	Light	Light	Moderate
C	Runway	113	1389	50	302	0.563	-0.037	-0.007	0.566	18	18	13	8	-0.019	-0.031	-0.008	0	0.103	0.072	0.047	Light	Light	Moderate
A	Runway	114	2064	50	302	0.571	-0.009	0.005	0.574	17	17	14	8					0.099	0.081	0.045	Light	Light	Moderate
C	Runway	114	2064	50	302	0.518	-0.035	-0.001	0.527	19	19	16	10	-0.053	-0.026	-0.006	2	0.102	0.083	0.051	Light	Light	Moderate
A	Runway	115	2739	50	302	0.568	-0.012	0	0.571	18	18	13	7					0.101	0.077	0.043	Light	Light	Light
C	Runway	115	2739	50	302	0.507	-0.026	0	0.516	21	21	15	10	-0.061	-0.014	0	3	0.110	0.079	0.052	Light	Light	Moderate
A	Runway	116	3300	50	302	0.58	-0.011	0.001	0.582	18	18	13	7					0.103	0.075	0.044	Light	Light	Moderate
C	Runway	116	3300	50	302	0.476	-0.01	0.008	0.490	22	23	18	12	-0.104	0.001	0.007	4	0.111	0.089	0.057	Light	Light	Moderate
A	Runway	117	3875	50	302	0.521	-0.033	-0.028	0.530	20	21	15	10					0.109	0.082	0.052	Light	Light	Moderate
C	Runway	117	3875	50	302	0.49	-0.028	-0.018	0.502	23	24	16	11	-0.031	0.005	0.01	3	0.120	0.082	0.056	Light	Light	Moderate
A	Runway	118	4450	50	302	0.505	-0.026	-0.007	0.517	22	23	17	11					0.120	0.087	0.057	Light	Light	Moderate
C	Runway	118	4450	50	302	0.352	-0.016	0.022	0.397	27	33	28	21	-0.153	0.01	0.029	5	0.132	0.110	0.083	Light	Light	Severe

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (% [UVW])	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	Runway	121	0	100	302	0.634	-0.014	-0.005	0.633	18	18	13	8					0.117	0.080	0.049	Light	Light	Moderate
C	Runway	121	0	100	302	0.622	-0.014	-0.005	0.623	18	18	13	8	-0.012	0	0	0	0.114	0.083	0.052	Light	Light	Moderate
A	Runway	122	695	100	302	0.614	-0.009	0	0.614	17	17	12	8					0.107	0.076	0.052	Light	Light	Moderate
C	Runway	122	695	100	302	0.622	-0.024	-0.002	0.623	18	18	13	8	0.008	-0.015	-0.002	1	0.112	0.081	0.052	Light	Light	Moderate
A	Runway	123	1389	100	302	0.627	-0.009	-0.002	0.626	17	17	12	8					0.109	0.075	0.050	Light	Light	Moderate
C	Runway	123	1389	100	302	0.634	-0.024	-0.014	0.633	17	17	12	8	0.007	-0.015	-0.012	0	0.109	0.079	0.049	Light	Light	Moderate
A	Runway	124	2064	100	302	0.612	-0.009	0.001	0.613	18	18	13	8					0.112	0.081	0.052	Light	Light	Moderate
C	Runway	124	2064	100	302	0.591	-0.018	-0.008	0.594	19	19	14	9	-0.021	-0.009	-0.009	1	0.113	0.081	0.052	Light	Light	Moderate
A	Runway	125	2739	100	302	0.61	-0.006	0.001	0.610	18	18	12	8					0.109	0.075	0.049	Light	Light	Moderate
C	Runway	125	2739	100	302	0.594	-0.016	-0.014	0.596	19	19	13	8	-0.016	-0.01	-0.015	1	0.116	0.079	0.050	Light	Light	Moderate
A	Runway	126	3300	100	302	0.621	-0.013	0.002	0.620	16	16	12	8					0.101	0.077	0.051	Light	Light	Moderate
C	Runway	126	3300	100	302	0.536	-0.013	-0.001	0.545	22	23	16	11	-0.085	0	-0.003	6	0.126	0.085	0.062	Light	Light	Moderate
A	Runway	127	3875	100	302	0.608	-0.026	-0.026	0.609	18	18	13	8					0.108	0.078	0.048	Light	Light	Moderate
C	Runway	127	3875	100	302	0.571	-0.019	-0.021	0.576	20	21	14	9	-0.037	0.007	0.005	2	0.119	0.082	0.053	Light	Light	Moderate
A	Runway	128	4450	100	302	0.6	-0.009	-0.012	0.603	20	20	14	9					0.121	0.086	0.053	Light	Light	Moderate
C	Runway	128	4450	100	302	0.432	-0.008	0.001	0.458	30	33	21	17	-0.168	0.001	0.013	10	0.153	0.096	0.076	Light	Light	Moderate
A	Runway	131	0	150	302	0.683	-0.011	-0.007	0.678	16	16	11	7					0.107	0.077	0.050	Light	Light	Moderate
C	Runway	131	0	150	302	0.677	-0.016	-0.004	0.674	17	17	12	8	-0.006	-0.005	0.003	1	0.113	0.083	0.054	Light	Light	Moderate
A	Runway	132	695	150	302	0.658	-0.013	-0.002	0.655	16	17	12	8					0.109	0.077	0.052	Light	Light	Moderate
C	Runway	132	695	150	302	0.653	-0.024	-0.001	0.651	19	19	12	8	-0.005	-0.011	0.001	3	0.122	0.080	0.053	Light	Light	Moderate
A	Runway	133	1389	150	302	0.65	-0.013	-0.002	0.648	18	18	12	8					0.114	0.080	0.053	Light	Light	Moderate
C	Runway	133	1389	150	302	0.66	-0.023	-0.011	0.659	17	17	13	8	0.01	-0.01	-0.009	-1	0.110	0.083	0.054	Light	Light	Moderate
A	Runway	134	2064	150	302	0.646	-0.009	-0.003	0.644	17	17	12	8					0.107	0.078	0.052	Light	Light	Moderate
C	Runway	134	2064	150	302	0.623	-0.009	-0.009	0.624	19	19	14	9	-0.023	0	-0.006	2	0.119	0.085	0.055	Light	Light	Moderate
A	Runway	135	2739	150	302	0.642	-0.011	-0.002	0.641	17	17	12	8					0.107	0.077	0.054	Light	Light	Moderate
C	Runway	135	2739	150	302	0.632	-0.008	-0.009	0.632	18	18	12	8	-0.01	0.003	-0.007	1	0.115	0.078	0.053	Light	Light	Moderate
A	Runway	136	3300	150	302	0.65	-0.01	-0.004	0.648	18	18	12	8					0.114	0.080	0.054	Light	Light	Moderate
C	Runway	136	3300	150	302	0.608	-0.017	-0.004	0.611	22	22	14	9	-0.042	-0.007	0	4	0.134	0.085	0.058	Light	Light	Moderate
A	Runway	137	3875	150	302	0.666	-0.022	-0.027	0.663	16	16	11	8					0.106	0.074	0.050	Light	Light	Moderate
C	Runway	137	3875	150	302	0.642	-0.012	-0.02	0.640	17	17	12	8	-0.024	0.01	0.007	1	0.111	0.076	0.054	Light	Light	Moderate
A	Runway	138	4450	150	302	0.654	-0.009	-0.011	0.652	17	17	12	8					0.114	0.079	0.054	Light	Light	Moderate
C	Runway	138	4450	150	302	0.57	-0.013	-0.007	0.577	24	25	15	11	-0.084	-0.004	0.004	7	0.144	0.084	0.062	Light	Light	Moderate
A	Runway	141	0	250	302	0.729	-0.013	-0.005	0.722	15	15	11	8					0.109	0.076	0.060	Light	Light	Moderate
C	Runway	141	0	250	302	0.728	-0.01	-0.006	0.721	15	15	11	8	-0.001	0.003	-0.001	0	0.106	0.081	0.059	Light	Light	Moderate
A	Runway	142	695	250	302	0.716	-0.013	-0.004	0.710	15	15	12	8					0.104	0.083	0.059	Light	Light	Moderate
C	Runway	142	695	250	302	0.721	-0.017	-0.007	0.715	15	15	11	8	0.005	-0.004	-0.003	0	0.108	0.078	0.059	Light	Light	Moderate
A	Runway	143	1389	250	302	0.698	-0.011	-0.003	0.693	16	16	11	8					0.108	0.079	0.057	Light	Light	Moderate
C	Runway	143	1389	250	302	0.716	-0.02	-0.015	0.710	16	15	11	8	0.018	-0.009	-0.012	0	0.110	0.078	0.058	Light	Light	Moderate
A	Runway	144	2064	250	302	0.698	-0.01	-0.003	0.693	16	16	12	9					0.113	0.082	0.060	Light	Light	Moderate
C	Runway	144	2064	250	302	0.7	-0.009	-0.014	0.696	16	16	12	8	0.002	0.001	-0.011	0	0.113	0.080	0.059	Light	Light	Moderate
A	Runway	145	2739	250	302	0.691	-0.015	-0.005	0.687	16	16	12	8					0.113	0.080	0.057	Light	Light	Moderate
C	Runway	145	2739	250	302	0.681	-0.008	-0.01	0.677	16	16	11	8	-0.01	0.007	-0.005	0	0.107	0.077	0.054	Light	Light	Moderate
A	Runway	146	3300	250	302	0.696	-0.013	-0.006	0.691	16	16	11	8					0.110	0.076	0.056	Light	Light	Moderate
C	Runway	146	3300	250	302	0.692	-0.012	-0.007	0.688	17	17	12	8	-0.004	0.001	-0.001	1	0.118	0.081	0.058	Light	Light	Moderate
A	Runway	147	3875	250	302	0.711	-0.011	-0.022	0.706	15	15	11	8					0.105	0.080	0.056	Light	Light	Moderate
C	Runway	147	3875	250	302	0.7	-0.011	-0.021	0.695	15	15	11	8	-0.011	0	0.001	0	0.107	0.077	0.058	Light	Light	Moderate
A	Runway	148	4450	250	302	0.707	-0.007	-0.009	0.702	15	15	11	8					0.107	0.079	0.057	Light	Light	Moderate
C	Runway	148	4450	250	302	0.704	-0.013	-0.007	0.699	17	17	12	9	-0.003	-0.006	0.002	2	0.120	0.080	0.059	Light	Light	Moderate
A	HPLZ1	201	0	25	302	0.52	-0.008	-0.006	0.526	19	19	13	8					0.102	0.071	0.043	Light	Light	Light
C	HPLZ1	201	0	25	302	0.543	-0.007	-0.003	0.546	18	19	13	8	0.023	0.001	0.003	-1	0.102	0.069	0.041	Light	Light	Light
A	HPLZ1	202	675	25	302	0.532	-0.003	-0.005	0.538	18	18	15	8					0.096	0.079	0.041	Light	Light	Light
C	HPLZ1	202	675	25	302	0.509	-0.031	-0.003	0.516	20	20	15	8	-0.023	-0.028	0.002	2	0.102	0.078	0.042	Light	Light	Light
A	HPLZ1	203	1350	25	302	0.538	0.013	0.001	0.542	18	17	14	7					0.095	0.074	0.038	Light	Light	Light
C	HPLZ1	203	1350	25	302	0.504	-0.018	0.001	0.512	20	20	16	9	-0.034	-0.031	0	2	0.102	0.083	0.044	Light	Light	Moderate
A	HPLZ1	211	0	50	302	0.573	-0.014	-0.005	0.575	17	17	13	8					0.099	0.076	0.045	Light	Light	Moderate
C	HPLZ1	211	0	50	302	0.579	-0.011	-0.006	0.582	18	18	13	8	0.006	0.003	-0.001	1	0.105	0.077	0.049	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])													
A	HPLZ1	212	675	50	302	0.58	-0.008	0	0.582	17	17	14	8					0.100	0.080	0.045	Light	Light	Moderate
C	HPLZ1	212	675	50	302	0.555	-0.039	-0.002	0.560	19	19	14	8	-0.025	-0.031	-0.002	2	0.107	0.076	0.047	Light	Light	Moderate
A	HPLZ1	213	1350	50	302	0.574	0.005	0.007	0.576	18	18	13	8					0.105	0.075	0.043	Light	Light	Light
C	HPLZ1	213	1350	50	302	0.54	-0.017	0.002	0.546	19	19	15	9	-0.034	-0.022	-0.005	1	0.102	0.083	0.048	Light	Light	Moderate
A	HPLZ1	221	0	100	302	0.625	-0.008	-0.006	0.624	17	17	12	8					0.108	0.077	0.049	Light	Light	Moderate
C	HPLZ1	221	0	100	302	0.605	-0.022	-0.009	0.606	18	18	12	8	-0.02	-0.014	-0.003	1	0.109	0.075	0.050	Light	Light	Moderate
A	HPLZ1	222	675	100	302	0.635	-0.011	-0.003	0.634	16	16	13	8					0.103	0.080	0.048	Light	Light	Moderate
C	HPLZ1	222	675	100	302	0.611	-0.03	-0.005	0.611	19	19	13	8	-0.024	-0.019	-0.002	3	0.117	0.078	0.048	Light	Light	Moderate
A	HPLZ1	223	1350	100	302	0.623	-0.005	0.003	0.622	17	17	13	8					0.106	0.079	0.048	Light	Light	Moderate
C	HPLZ1	223	1350	100	302	0.606	-0.012	-0.003	0.608	19	19	14	9	-0.017	-0.007	-0.006	2	0.115	0.082	0.054	Light	Light	Moderate
A	HPLZ1	231	0	150	302	0.663	-0.01	-0.006	0.661	16	16	13	8					0.109	0.083	0.051	Light	Light	Moderate
C	HPLZ1	231	0	150	302	0.663	-0.02	-0.012	0.661	16	16	12	8	0	-0.01	-0.006	0	0.108	0.082	0.051	Light	Light	Moderate
A	HPLZ1	232	675	150	302	0.656	-0.019	0	0.654	17	17	12	8					0.109	0.078	0.052	Light	Light	Moderate
C	HPLZ1	232	675	150	302	0.672	-0.024	-0.011	0.669	16	16	12	8	0.016	-0.005	-0.011	-1	0.107	0.080	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	302	0.66	-0.004	-0.001	0.657	16	16	12	8					0.105	0.079	0.052	Light	Light	Moderate
C	HPLZ1	233	1350	150	302	0.643	-0.011	-0.005	0.641	18	18	13	8	-0.017	-0.007	-0.004	2	0.113	0.080	0.053	Light	Light	Moderate
A	HPLZ1	241	0	250	302	0.708	-0.014	-0.008	0.703	15	15	11	8					0.108	0.079	0.054	Light	Light	Moderate
C	HPLZ1	241	0	250	302	0.709	-0.018	-0.011	0.704	15	15	11	8	0.001	-0.004	-0.003	0	0.104	0.079	0.056	Light	Light	Moderate
A	HPLZ1	242	675	250	302	0.694	-0.011	-0.001	0.690	16	16	12	8					0.108	0.083	0.058	Light	Light	Moderate
C	HPLZ1	242	675	250	302	0.708	-0.011	-0.011	0.703	16	16	11	8	0.014	0	-0.01	0	0.111	0.080	0.056	Light	Light	Moderate
A	HPLZ1	243	1350	250	302	0.71	-0.011	0	0.705	16	16	12	8					0.113	0.085	0.058	Light	Light	Moderate
C	HPLZ1	243	1350	250	302	0.698	-0.007	-0.007	0.693	16	16	12	8	-0.012	0.004	-0.007	0	0.112	0.082	0.056	Light	Light	Moderate
A	HPLZ2	301	0	25	302	0.549	-0.013	-0.003	0.553	18	18	14	8					0.098	0.078	0.042	Light	Light	Light
C	HPLZ2	301	0	25	302	0.484	-0.009	-0.008	0.495	21	22	17	10	-0.065	0.004	-0.005	3	0.108	0.082	0.048	Light	Light	Moderate
A	HPLZ2	302	675	25	302	0.541	-0.01	-0.005	0.544	17	17	13	8					0.092	0.068	0.041	Light	Light	Light
C	HPLZ2	302	675	25	302	0.557	-0.021	-0.007	0.560	17	18	13	7	0.016	-0.011	-0.002	0	0.098	0.072	0.039	Light	Light	Light
A	HPLZ2	303	1350	25	302	0.537	-0.003	-0.006	0.541	17	17	14	7					0.092	0.075	0.040	Light	Light	Light
C	HPLZ2	303	1350	25	302	0.529	-0.021	-0.005	0.534	18	18	15	8	-0.008	-0.018	0.001	1	0.098	0.080	0.042	Light	Light	Light
A	HPLZ2	311	0	50	302	0.582	-0.016	0.002	0.584	18	18	14	8					0.107	0.079	0.046	Light	Light	Moderate
C	HPLZ2	311	0	50	302	0.54	-0.006	0.007	0.545	19	19	14	8	-0.042	0.01	0.005	1	0.106	0.078	0.046	Light	Light	Moderate
A	HPLZ2	312	675	50	302	0.585	-0.014	-0.001	0.587	18	18	13	7					0.108	0.079	0.043	Light	Light	Light
C	HPLZ2	312	675	50	302	0.61	-0.018	-0.002	0.609	17	17	12	7	0.025	-0.004	-0.001	-1	0.102	0.072	0.044	Light	Light	Moderate
A	HPLZ2	313	1350	50	302	0.585	-0.004	-0.003	0.586	17	17	13	8					0.102	0.076	0.044	Light	Light	Moderate
C	HPLZ2	313	1350	50	302	0.57	-0.022	-0.004	0.573	18	18	13	8	-0.015	-0.018	-0.001	1	0.103	0.075	0.046	Light	Light	Moderate
A	HPLZ2	321	0	100	302	0.648	-0.019	-0.002	0.646	16	16	12	8					0.104	0.080	0.052	Light	Light	Moderate
C	HPLZ2	321	0	100	302	0.621	-0.015	0.002	0.620	18	18	12	8	-0.027	0.004	0.004	2	0.110	0.077	0.052	Light	Light	Moderate
A	HPLZ2	322	675	100	302	0.637	-0.012	0.002	0.635	16	16	12	8					0.105	0.078	0.050	Light	Light	Moderate
C	HPLZ2	322	675	100	302	0.649	-0.026	-0.005	0.647	16	16	12	8	0.012	-0.014	-0.007	0	0.107	0.079	0.049	Light	Light	Moderate
A	HPLZ2	323	1350	100	302	0.623	-0.017	-0.003	0.623	17	17	13	8					0.107	0.079	0.050	Light	Light	Moderate
C	HPLZ2	323	1350	100	302	0.613	-0.017	-0.007	0.613	19	19	13	8	-0.01	0	-0.004	2	0.114	0.080	0.052	Light	Light	Moderate
A	HPLZ2	331	0	150	302	0.673	-0.013	-0.002	0.669	16	16	12	8					0.106	0.077	0.053	Light	Light	Moderate
C	HPLZ2	331	0	150	302	0.667	-0.019	-0.002	0.664	18	18	12	8	-0.006	-0.006	0	2	0.120	0.079	0.054	Light	Light	Moderate
A	HPLZ2	332	675	150	302	0.676	-0.009	-0.005	0.673	17	17	12	8					0.112	0.081	0.054	Light	Light	Moderate
C	HPLZ2	332	675	150	302	0.673	-0.017	-0.01	0.670	17	17	12	8	-0.003	-0.008	-0.005	0	0.114	0.083	0.051	Light	Light	Moderate
A	HPLZ2	333	1350	150	302	0.667	-0.011	-0.003	0.664	16	16	12	8					0.105	0.081	0.054	Light	Light	Moderate
C	HPLZ2	333	1350	150	302	0.643	-0.008	-0.007	0.642	18	18	12	8	-0.024	0.003	-0.004	2	0.114	0.080	0.053	Light	Light	Moderate
A	HPLZ2	341	0	250	302	0.724	-0.01	-0.005	0.718	16	16	11	8					0.114	0.079	0.058	Light	Light	Moderate
C	HPLZ2	341	0	250	302	0.723	-0.015	-0.009	0.716	16	16	11	8	-0.001	-0.005	-0.004	0	0.115	0.078	0.059	Light	Light	Moderate
A	HPLZ2	342	675	250	302	0.707	-0.006	-0.003	0.702	15	15	11	8					0.107	0.079	0.058	Light	Light	Moderate
C	HPLZ2	342	675	250	302	0.715	-0.01	-0.006	0.710	15	15	12	8	0.008	-0.004	-0.003	0	0.107	0.083	0.057	Light	Light	Moderate
A	HPLZ2	343	1350	250	302	0.714	-0.012	-0.007	0.709	15	15	11	8					0.104	0.080	0.059	Light	Light	Moderate
C	HPLZ2	343	1350	250	302	0.689	-0.014	-0.005	0.685	18	18	12	8	-0.025	-0.002	0.002	3	0.121	0.083	0.058	Light	Light	Moderate
A	SLZ1	401	0	25	302	0.534	-0.008	-0.008	0.538	17	17	13	7					0.091	0.071	0.040	Light	Light	Light
C	SLZ1	401	0	25	302	0.481	-0.024	0.002	0.492	21	21	17	9	-0.053	-0.016	0.01	4	0.105	0.082	0.044	Light	Light	Moderate
A	SLZ1	402	575	25	302	0.519	-0.011	-0.005	0.524	19	19	14	9					0.100	0.071	0.045	Light	Light	Moderate
C	SLZ1	402	575	25	302	0.483	-0.007	-0.001	0.492	19	20	16	10	-0.036	0.004	0.004	0	0.098	0.077	0.048	Light	Light	Moderate

Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (% [UVW])	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	SLZ1	403	1150	25	302	0.504	-0.025	-0.004	0.512	20	21	15	9					0.107	0.076	0.048	Light	Light	Moderate
C	SLZ1	403	1150	25	302	0.47	-0.034	0.004	0.483	22	23	16	11	-0.034	-0.009	0.008	2	0.111	0.077	0.052	Light	Light	Moderate
A	SLZ1	411	0	50	302	0.592	-0.011	-0.005	0.592	17	17	12	7					0.101	0.071	0.042	Light	Light	Light
C	SLZ1	411	0	50	302	0.51	-0.022	0.001	0.520	21	22	16	10	-0.082	-0.011	0.006	4	0.115	0.083	0.053	Light	Light	Moderate
A	SLZ1	412	575	50	302	0.573	-0.017	-0.007	0.576	19	19	13	8					0.111	0.075	0.045	Light	Light	Moderate
C	SLZ1	412	575	50	302	0.533	-0.017	-0.003	0.540	21	22	14	9	-0.04	0	0.004	2	0.117	0.078	0.051	Light	Light	Moderate
A	SLZ1	413	1150	50	302	0.55	-0.03	-0.008	0.555	19	19	14	10					0.104	0.079	0.053	Light	Light	Moderate
C	SLZ1	413	1150	50	302	0.486	-0.029	-0.006	0.499	23	24	16	12	-0.064	0.001	0.002	4	0.118	0.081	0.058	Light	Light	Moderate
A	SLZ1	421	0	100	302	0.631	-0.002	-0.004	0.630	16	17	12	8					0.104	0.076	0.052	Light	Light	Moderate
C	SLZ1	421	0	100	302	0.576	-0.017	-0.006	0.580	20	20	13	10	-0.055	-0.015	-0.002	4	0.117	0.078	0.058	Light	Light	Moderate
A	SLZ1	422	575	100	302	0.64	-0.022	-0.008	0.638	17	17	11	8					0.105	0.073	0.050	Light	Light	Moderate
C	SLZ1	422	575	100	302	0.596	-0.016	-0.014	0.598	19	19	13	9	-0.044	0.006	-0.006	2	0.113	0.076	0.054	Light	Light	Moderate
A	SLZ1	423	1150	100	302	0.621	-0.014	-0.017	0.621	17	18	13	8					0.109	0.078	0.052	Light	Light	Moderate
C	SLZ1	423	1150	100	302	0.566	-0.015	-0.014	0.571	21	22	14	10	-0.055	-0.001	0.003	4	0.123	0.079	0.058	Light	Light	Moderate
A	SLZ1	431	0	150	302	0.676	-0.017	-0.009	0.673	17	17	12	8					0.111	0.078	0.053	Light	Light	Moderate
C	SLZ1	431	0	150	302	0.626	-0.015	-0.007	0.627	20	21	13	9	-0.05	0.002	0.002	3	0.129	0.080	0.059	Light	Light	Moderate
A	SLZ1	432	575	150	302	0.661	-0.022	-0.008	0.658	16	16	11	8					0.105	0.075	0.053	Light	Light	Moderate
C	SLZ1	432	575	150	302	0.636	-0.016	-0.01	0.635	19	19	12	8	-0.025	0.006	-0.002	3	0.121	0.075	0.054	Light	Light	Moderate
A	SLZ1	433	1150	150	302	0.679	-0.014	-0.018	0.674	15	15	11	7					0.101	0.075	0.050	Light	Light	Moderate
C	SLZ1	433	1150	150	302	0.617	-0.008	-0.014	0.619	20	20	13	9	-0.062	0.006	0.004	5	0.124	0.081	0.057	Light	Light	Moderate
A	SLZ1	441	0	250	302	0.715	-0.019	-0.011	0.709	15	15	11	8					0.106	0.079	0.056	Light	Light	Moderate
C	SLZ1	441	0	250	302	0.7	-0.011	-0.013	0.696	16	16	11	8	-0.015	0.008	-0.002	1	0.113	0.078	0.057	Light	Light	Moderate
A	SLZ1	442	575	250	302	0.708	-0.018	-0.015	0.702	16	16	11	8					0.111	0.076	0.056	Light	Light	Moderate
C	SLZ1	442	575	250	302	0.704	-0.014	-0.011	0.699	16	16	12	8	-0.004	0.004	0.004	0	0.113	0.081	0.056	Light	Light	Moderate
A	SLZ1	443	1150	250	302	0.716	-0.01	-0.015	0.709	15	15	11	8					0.107	0.075	0.056	Light	Light	Moderate
C	SLZ1	443	1150	250	302	0.698	-0.014	-0.01	0.694	16	16	11	8	-0.018	-0.004	0.005	1	0.114	0.079	0.057	Light	Light	Moderate
A	SLZ2	501	0	25	302	0.532	-0.015	-0.02	0.536	18	18	12	8					0.096	0.063	0.044	Light	Light	Moderate
C	SLZ2	501	0	25	302	0.493	-0.019	-0.015	0.501	20	21	14	10	-0.039	-0.004	0.005	2	0.103	0.070	0.049	Light	Light	Moderate
A	SLZ2	502	575	25	302	0.562	-0.012	-0.005	0.565	18	18	13	7					0.104	0.075	0.041	Light	Light	Light
C	SLZ2	502	575	25	302	0.501	-0.014	-0.001	0.509	20	20	16	9	-0.061	-0.002	0.004	2	0.102	0.079	0.045	Light	Light	Moderate
A	SLZ2	503	1150	25	302	0.547	-0.015	-0.002	0.550	17	17	12	8					0.095	0.067	0.044	Light	Light	Moderate
C	SLZ2	503	1150	25	302	0.536	-0.011	0	0.540	19	19	14	8	-0.011	0.004	0.002	2	0.104	0.073	0.044	Light	Light	Moderate
A	SLZ2	511	0	50	302	0.588	-0.01	-0.019	0.590	18	18	13	7					0.105	0.079	0.042	Light	Light	Light
C	SLZ2	511	0	50	302	0.568	-0.029	-0.014	0.572	19	19	14	8	-0.02	-0.019	0.005	1	0.106	0.079	0.045	Light	Light	Moderate
A	SLZ2	512	575	50	302	0.594	-0.013	-0.002	0.594	17	17	13	7					0.103	0.075	0.043	Light	Light	Light
C	SLZ2	512	575	50	302	0.536	-0.017	0	0.542	20	20	15	9	-0.058	-0.004	0.002	3	0.111	0.081	0.049	Light	Light	Moderate
A	SLZ2	513	1150	50	302	0.594	-0.016	-0.004	0.594	17	17	12	8					0.099	0.071	0.046	Light	Light	Moderate
C	SLZ2	513	1150	50	302	0.555	-0.017	0	0.558	18	19	13	9	-0.039	-0.001	0.004	1	0.104	0.072	0.049	Light	Light	Moderate
A	SLZ2	521	0	100	302	0.65	-0.018	-0.011	0.648	16	16	12	7					0.102	0.079	0.047	Light	Light	Moderate
C	SLZ2	521	0	100	302	0.62	-0.023	-0.009	0.621	18	18	14	8	-0.03	-0.005	0.002	2	0.110	0.085	0.052	Light	Light	Moderate
A	SLZ2	522	575	100	302	0.644	-0.02	0	0.642	17	17	12	7					0.110	0.075	0.048	Light	Light	Moderate
C	SLZ2	522	575	100	302	0.585	-0.018	0	0.588	19	19	14	10	-0.059	0.002	0	2	0.114	0.081	0.056	Light	Light	Moderate
A	SLZ2	523	1150	100	302	0.645	-0.023	-0.006	0.642	16	16	12	8					0.104	0.075	0.048	Light	Light	Moderate
C	SLZ2	523	1150	100	302	0.602	-0.02	-0.007	0.604	18	18	13	9	-0.043	0.003	-0.001	2	0.111	0.079	0.056	Light	Light	Moderate
A	SLZ2	531	0	150	302	0.669	-0.013	-0.01	0.666	16	16	12	8					0.106	0.078	0.052	Light	Light	Moderate
C	SLZ2	531	0	150	302	0.649	-0.017	-0.013	0.648	17	17	12	8	-0.02	-0.004	-0.003	1	0.110	0.078	0.053	Light	Light	Moderate
A	SLZ2	532	575	150	302	0.659	-0.011	-0.003	0.655	17	17	11	8					0.108	0.070	0.051	Light	Light	Moderate
C	SLZ2	532	575	150	302	0.629	-0.014	-0.003	0.630	20	20	13	10	-0.03	-0.003	0	3	0.124	0.082	0.060	Light	Light	Moderate
A	SLZ2	533	1150	150	302	0.672	-0.017	-0.008	0.668	16	16	12	8					0.105	0.078	0.051	Light	Light	Moderate
C	SLZ2	533	1150	150	302	0.65	-0.016	-0.013	0.648	17	17	12	8	-0.022	0.001	-0.005	1	0.112	0.076	0.055	Light	Light	Moderate
A	SLZ2	541	0	250	302	0.709	-0.012	-0.012	0.704	15	15	11	8					0.106	0.080	0.058	Light	Light	Moderate
C	SLZ2	541	0	250	302	0.688	-0.006	-0.008	0.684	16	17	11	8	-0.021	0.006	0.004	1	0.114	0.078	0.058	Light	Light	Moderate
A	SLZ2	542	575	250	302	0.709	-0.017	-0.007	0.704	15	15	11	8					0.108	0.078	0.058	Light	Light	Moderate
C	SLZ2	542	575	250	302	0.692	-0.011	-0.01	0.688	16	16	12	8	-0.017	0.006	-0.003	1	0.113	0.081	0.058	Light	Light	Moderate
A	SLZ2	543	1150	250	302	0.719	-0.018	-0.012	0.714	15	15	11	8					0.104	0.080	0.057	Light	Light	Moderate
C	SLZ2	543	1150	250	302	0.681	-0.017	-0.005	0.678	16	16	12	9	-0.038	0.001	0.007	1	0.111	0.080	0.058	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	Runway	101	0	25	324.5	0.523	-0.009	-0.012	0.529	18	18	14	8					0.093	0.075	0.042	Light	Light	Light
C	Runway	101	0	25	324.5	0.514	-0.01	-0.011	0.521	18	18	15	8	-0.009	-0.001	0.001	0	0.094	0.077	0.040	Light	Light	Light
A	Runway	102	695	25	324.5	0.503	0	0	0.509	18	19	14	8					0.095	0.072	0.040	Light	Light	Light
C	Runway	102	695	25	324.5	0.506	-0.001	-0.001	0.513	18	18	15	8	0.003	-0.001	-0.001	0	0.091	0.077	0.041	Light	Light	Light
A	Runway	103	1389	25	324.5	0.502	0.002	-0.006	0.509	18	19	14	8					0.094	0.073	0.042	Light	Light	Light
C	Runway	103	1389	25	324.5	0.47	0.024	-0.002	0.482	21	21	18	9	-0.032	0.022	0.004	3	0.102	0.089	0.043	Light	Light	Light
A	Runway	104	2064	25	324.5	0.518	0.003	-0.006	0.523	18	18	14	8					0.094	0.072	0.043	Light	Light	Light
C	Runway	104	2064	25	324.5	0.522	-0.006	-0.006	0.525	18	18	12	8	0.004	-0.009	0	0	0.094	0.062	0.039	Light	Light	Light
A	Runway	105	2739	25	324.5	0.528	-0.008	-0.001	0.532	18	18	14	8					0.098	0.074	0.040	Light	Light	Light
C	Runway	105	2739	25	324.5	0.531	-0.024	-0.003	0.536	18	18	13	7	0.003	-0.016	-0.002	0	0.095	0.071	0.039	Light	Light	Light
A	Runway	106	3300	25	324.5	0.555	-0.008	-0.005	0.557	17	17	13	7					0.097	0.070	0.039	Light	Light	Light
C	Runway	106	3300	25	324.5	0.551	-0.021	-0.003	0.553	17	17	12	7	-0.004	-0.013	0.002	0	0.093	0.067	0.040	Light	Light	Light
A	Runway	107	3875	25	324.5	0.514	-0.015	-0.005	0.521	18	18	15	9					0.095	0.077	0.045	Light	Light	Moderate
C	Runway	107	3875	25	324.5	0.499	-0.021	-0.002	0.508	20	20	17	9	-0.015	-0.006	0.003	2	0.102	0.085	0.045	Light	Light	Moderate
A	Runway	108	4450	25	324.5	0.534	-0.026	-0.002	0.539	19	19	13	8					0.103	0.072	0.044	Light	Light	Moderate
C	Runway	108	4450	25	324.5	0.507	-0.037	-0.003	0.514	19	19	14	9	-0.027	-0.011	-0.001	0	0.098	0.073	0.045	Light	Light	Moderate
A	Runway	111	0	50	324.5	0.599	-0.007	-0.002	0.599	16	16	13	7					0.098	0.078	0.041	Light	Light	Light
C	Runway	111	0	50	324.5	0.596	-0.008	-0.002	0.597	17	17	14	7	-0.003	-0.001	0.004	1	0.102	0.085	0.042	Light	Light	Light
A	Runway	112	695	50	324.5	0.565	-0.011	0.006	0.568	18	18	14	8					0.104	0.079	0.043	Light	Light	Light
C	Runway	112	695	50	324.5	0.573	-0.008	0.003	0.575	18	18	14	7	0.008	0.003	-0.003	0	0.101	0.078	0.042	Light	Light	Light
A	Runway	113	1389	50	324.5	0.565	-0.006	-0.001	0.568	18	18	14	8					0.105	0.077	0.044	Light	Light	Moderate
C	Runway	113	1389	50	324.5	0.529	0.012	0.002	0.537	21	21	16	9	-0.036	0.018	0.003	3	0.112	0.086	0.049	Light	Light	Moderate
A	Runway	114	2064	50	324.5	0.579	-0.005	-0.001	0.580	18	18	13	7					0.103	0.076	0.042	Light	Light	Light
C	Runway	114	2064	50	324.5	0.58	-0.011	-0.003	0.581	17	17	12	7	0.001	-0.006	-0.002	-1	0.099	0.070	0.043	Light	Light	Light
A	Runway	115	2739	50	324.5	0.577	-0.013	0.002	0.578	17	17	13	7					0.101	0.076	0.042	Light	Light	Light
C	Runway	115	2739	50	324.5	0.588	-0.023	-0.004	0.588	17	17	12	7	0.011	-0.01	-0.006	0	0.097	0.069	0.042	Light	Light	Light
A	Runway	116	3300	50	324.5	0.597	-0.005	-0.001	0.597	17	17	12	7					0.101	0.073	0.042	Light	Light	Light
C	Runway	116	3300	50	324.5	0.586	-0.022	-0.003	0.587	17	17	12	7	-0.011	-0.017	-0.002	0	0.101	0.071	0.043	Light	Light	Light
A	Runway	117	3875	50	324.5	0.587	-0.027	-0.009	0.589	17	17	12	7					0.101	0.073	0.043	Light	Light	Light
C	Runway	117	3875	50	324.5	0.545	-0.026	-0.002	0.551	21	21	14	9	-0.042	0.001	0.007	4	0.114	0.075	0.048	Light	Light	Moderate
A	Runway	118	4450	50	324.5	0.56	-0.016	-0.007	0.563	18	18	13	8					0.102	0.075	0.047	Light	Light	Moderate
C	Runway	118	4450	50	324.5	0.539	-0.034	-0.005	0.545	20	20	14	9	-0.021	-0.018	0.002	2	0.111	0.076	0.049	Light	Light	Moderate
A	Runway	121	0	100	324.5	0.654	-0.014	0.004	0.651	15	15	12	7					0.099	0.075	0.044	Light	Light	Moderate
C	Runway	121	0	100	324.5	0.643	-0.002	0.004	0.641	15	15	12	7	-0.011	0.012	0	0	0.094	0.079	0.046	Light	Light	Moderate
A	Runway	122	695	100	324.5	0.636	-0.013	0.003	0.634	17	17	12	7					0.105	0.079	0.046	Light	Light	Moderate
C	Runway	122	695	100	324.5	0.637	-0.015	0.003	0.637	17	17	13	8	0.001	-0.002	0	0	0.108	0.086	0.051	Light	Light	Moderate
A	Runway	123	1389	100	324.5	0.623	-0.01	0	0.622	17	17	13	8					0.107	0.079	0.047	Light	Light	Moderate
C	Runway	123	1389	100	324.5	0.606	-0.021	-0.004	0.608	19	19	13	8	-0.017	-0.011	-0.004	2	0.113	0.081	0.051	Light	Light	Moderate
A	Runway	124	2064	100	324.5	0.623	-0.009	0.002	0.622	17	17	13	8					0.103	0.083	0.048	Light	Light	Moderate
C	Runway	124	2064	100	324.5	0.638	-0.016	-0.007	0.636	17	17	12	8	0.015	-0.007	-0.009	0	0.107	0.076	0.049	Light	Light	Moderate
A	Runway	125	2739	100	324.5	0.624	-0.004	0.004	0.622	16	16	12	8					0.101	0.073	0.049	Light	Light	Moderate
C	Runway	125	2739	100	324.5	0.638	-0.017	-0.008	0.635	16	16	12	8	0.014	-0.013	-0.012	0	0.101	0.073	0.048	Light	Light	Moderate
A	Runway	126	3300	100	324.5	0.64	-0.006	0.003	0.637	16	16	12	8					0.103	0.077	0.049	Light	Light	Moderate
C	Runway	126	3300	100	324.5	0.632	-0.009	-0.005	0.631	16	16	12	7	-0.008	-0.003	-0.008	0	0.102	0.077	0.047	Light	Light	Moderate
A	Runway	127	3875	100	324.5	0.632	-0.025	-0.007	0.630	15	15	11	8					0.097	0.068	0.048	Light	Light	Moderate
C	Runway	127	3875	100	324.5	0.608	-0.031	-0.006	0.609	17	17	13	8	-0.024	-0.006	0.001	2	0.105	0.077	0.050	Light	Light	Moderate
A	Runway	128	4450	100	324.5	0.627	-0.014	-0.008	0.627	17	17	13	8					0.105	0.080	0.048	Light	Light	Moderate
C	Runway	128	4450	100	324.5	0.607	-0.028	-0.012	0.608	19	19	13	9	-0.02	-0.014	-0.004	2	0.113	0.077	0.052	Light	Light	Moderate
A	Runway	131	0	150	324.5	0.67	-0.009	0.004	0.666	16	16	12	8					0.105	0.078	0.053	Light	Light	Moderate
C	Runway	131	0	150	324.5	0.672	-0.011	0.002	0.669	15	15	12	8	0.002	-0.002	-0.002	-1	0.103	0.077	0.052	Light	Light	Moderate
A	Runway	132	695	150	324.5	0.666	-0.01	0.003	0.663	16	16	12	8					0.103	0.080	0.050	Light	Light	Moderate
C	Runway	132	695	150	324.5	0.681	-0.017	0.001	0.677	15	15	12	8	0.015	-0.007	-0.002	-1	0.105	0.082	0.052	Light	Light	Moderate
A	Runway	133	1389	150	324.5	0.669	-0.015	-0.003	0.666	16	16	12	7					0.109	0.080	0.049	Light	Light	Moderate
C	Runway	133	1389	150	324.5	0.656	-0.021	-0.002	0.654	17	17	13	8	-0.013	-0.006	0.001	1	0.108	0.082	0.052	Light	Light	Moderate
A	Runway	134	2064	150	324.5	0.662	-0.016	-0.001	0.659	16	16	12	8					0.107	0.078	0.053	Light	Light	Moderate
C	Runway	134	2064	150	324.5	0.658	-0.015	-0.01	0.655	16	16	12	8	-0.004	0.001	-0.009	0	0.103	0.078	0.049	Light	Light	Moderate

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW] /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W	
A	Runway	135	2739	150	324.5	0.657	-0.016	0.002	0.654	15	15	12	8									Light	Light	Moderate
C	Runway	135	2739	150	324.5	0.664	-0.016	-0.005	0.661	16	16	12	8	0.007	0	-0.007	1	0.107	0.081	0.053	Light	Light	Moderate	
A	Runway	136	3300	150	324.5	0.671	-0.01	-0.001	0.667	16	16	11	8								Light	Light	Moderate	
C	Runway	136	3300	150	324.5	0.659	-0.007	-0.006	0.656	16	17	12	8	-0.012	0.003	-0.005	0	0.109	0.079	0.053	Light	Light	Moderate	
A	Runway	137	3875	150	324.5	0.664	-0.023	-0.006	0.661	16	16	11	8								Light	Light	Moderate	
C	Runway	137	3875	150	324.5	0.643	-0.016	-0.011	0.642	18	18	13	9	-0.021	0.007	-0.005	2	0.116	0.081	0.057	Light	Light	Moderate	
A	Runway	138	4450	150	324.5	0.671	-0.017	-0.009	0.667	16	16	11	8								Light	Light	Moderate	
C	Runway	138	4450	150	324.5	0.639	-0.021	-0.009	0.639	18	18	13	9	-0.032	-0.004	0	2	0.113	0.081	0.055	Light	Light	Moderate	
A	Runway	141	0	250	324.5	0.709	-0.016	0	0.704	16	16	11	8								Light	Light	Moderate	
C	Runway	141	0	250	324.5	0.712	-0.015	0	0.707	15	15	12	8	0.003	0.001	0	-1	0.106	0.084	0.059	Light	Light	Moderate	
A	Runway	142	695	250	324.5	0.709	-0.011	0	0.703	14	14	11	8								Light	Light	Moderate	
C	Runway	142	695	250	324.5	0.719	-0.016	-0.001	0.714	15	15	12	8	0.01	-0.005	-0.001	1	0.105	0.085	0.058	Light	Light	Moderate	
A	Runway	143	1389	250	324.5	0.716	-0.018	-0.003	0.710	15	15	11	8								Light	Light	Moderate	
C	Runway	143	1389	250	324.5	0.704	-0.019	-0.005	0.699	15	15	12	8	-0.012	-0.001	-0.002	0	0.107	0.081	0.057	Light	Light	Moderate	
A	Runway	144	2064	250	324.5	0.694	-0.012	-0.005	0.689	15	15	11	8								Light	Light	Moderate	
C	Runway	144	2064	250	324.5	0.723	-0.014	-0.014	0.717	14	14	11	8	0.029	-0.002	-0.009	-1	0.101	0.081	0.057	Light	Light	Moderate	
A	Runway	145	2739	250	324.5	0.7	-0.016	-0.002	0.695	16	16	11	8								Light	Light	Moderate	
C	Runway	145	2739	250	324.5	0.702	-0.011	-0.01	0.697	16	16	12	8	0.002	0.005	-0.008	0	0.112	0.080	0.057	Light	Light	Moderate	
A	Runway	146	3300	250	324.5	0.713	-0.009	-0.004	0.707	15	15	11	8								Light	Light	Moderate	
C	Runway	146	3300	250	324.5	0.71	-0.009	-0.007	0.706	16	16	12	8	-0.003	0	-0.003	1	0.110	0.086	0.056	Light	Light	Moderate	
A	Runway	147	3875	250	324.5	0.711	-0.019	-0.014	0.705	15	15	10	8								Light	Light	Moderate	
C	Runway	147	3875	250	324.5	0.696	-0.008	-0.007	0.691	15	15	11	8	-0.015	0.011	0.007	0	0.102	0.076	0.056	Light	Light	Moderate	
A	Runway	148	4450	250	324.5	0.703	-0.017	-0.012	0.698	15	15	11	8								Light	Light	Moderate	
C	Runway	148	4450	250	324.5	0.711	-0.016	-0.011	0.706	16	16	12	8	0.008	0.001	0.001	1	0.115	0.082	0.059	Light	Light	Moderate	
A	HPLZ1	201	0	25	324.5	0.53	-0.002	-0.003	0.535	17	17	14	8								Light	Light	Light	
C	HPLZ1	201	0	25	324.5	0.524	-0.009	-0.003	0.530	19	19	15	8	-0.006	-0.007	0	2	0.101	0.078	0.042	Light	Light	Light	
A	HPLZ1	202	675	25	324.5	0.523	-0.005	-0.002	0.527	18	18	13	7								Light	Light	Light	
C	HPLZ1	202	675	25	324.5	0.519	0.008	-0.001	0.524	19	19	14	8	-0.004	0.013	0.001	1	0.101	0.074	0.040	Light	Light	Light	
A	HPLZ1	203	1350	25	324.5	0.515	0.001	0.001	0.521	18	18	15	8								Light	Light	Light	
C	HPLZ1	203	1350	25	324.5	0.53	0.003	-0.002	0.534	17	17	13	8	0.015	0.002	-0.003	-1	0.091	0.069	0.040	Light	Light	Light	
A	HPLZ1	211	0	50	324.5	0.576	-0.007	-0.001	0.578	17	17	14	7								Light	Light	Light	
C	HPLZ1	211	0	50	324.5	0.569	-0.011	-0.003	0.572	18	18	14	8	-0.007	-0.004	-0.002	1	0.104	0.077	0.043	Light	Light	Light	
A	HPLZ1	212	675	50	324.5	0.573	-0.012	0.003	0.575	17	17	13	7								Light	Light	Light	
C	HPLZ1	212	675	50	324.5	0.575	-0.003	0.002	0.578	18	18	14	8	0.002	0.009	-0.001	1	0.103	0.084	0.044	Light	Light	Moderate	
A	HPLZ1	213	1350	50	324.5	0.561	-0.001	0.009	0.563	18	18	14	7								Light	Light	Light	
C	HPLZ1	213	1350	50	324.5	0.587	0	0.004	0.587	17	17	12	7	0.026	0.001	-0.005	-1	0.099	0.073	0.041	Light	Light	Light	
A	HPLZ1	221	0	100	324.5	0.645	-0.015	-0.003	0.643	16	16	12	8								Light	Light	Moderate	
C	HPLZ1	221	0	100	324.5	0.622	-0.011	-0.002	0.621	18	18	12	8	-0.023	0.004	0.001	2	0.110	0.075	0.050	Light	Light	Moderate	
A	HPLZ1	222	675	100	324.5	0.621	-0.016	0.003	0.621	17	17	13	8								Light	Light	Moderate	
C	HPLZ1	222	675	100	324.5	0.617	-0.01	0.001	0.618	17	17	13	8	-0.004	0.006	-0.002	0	0.106	0.083	0.048	Light	Light	Moderate	
A	HPLZ1	223	1350	100	324.5	0.629	-0.005	0.007	0.628	17	17	12	7								Light	Light	Moderate	
C	HPLZ1	223	1350	100	324.5	0.635	-0.005	0.004	0.633	16	16	12	7	0.006	0	-0.003	-1	0.099	0.075	0.047	Light	Light	Moderate	
A	HPLZ1	231	0	150	324.5	0.665	-0.011	-0.004	0.662	16	16	12	8								Light	Light	Moderate	
C	HPLZ1	231	0	150	324.5	0.673	-0.014	-0.003	0.669	16	16	12	7	0.008	-0.003	0.001	0	0.107	0.079	0.050	Light	Light	Moderate	
A	HPLZ1	232	675	150	324.5	0.67	-0.008	0	0.667	15	15	12	8								Light	Light	Moderate	
C	HPLZ1	232	675	150	324.5	0.661	-0.015	-0.001	0.659	16	16	12	8	-0.009	-0.007	-0.001	1	0.108	0.080	0.052	Light	Light	Moderate	
A	HPLZ1	233	1350	150	324.5	0.674	-0.01	0.003	0.670	16	16	12	8								Light	Light	Moderate	
C	HPLZ1	233	1350	150	324.5	0.677	-0.008	-0.002	0.672	14	14	12	8	0.003	0.002	-0.005	-2	0.097	0.078	0.051	Light	Light	Moderate	
A	HPLZ1	241	0	250	324.5	0.72	-0.014	-0.003	0.714	14	14	11	8								Light	Light	Moderate	
C	HPLZ1	241	0	250	324.5	0.703	-0.015	-0.005	0.698	16	16	12	8	-0.017	-0.001	-0.002	2	0.110	0.081	0.059	Light	Light	Moderate	
A	HPLZ1	242	675	250	324.5	0.704	-0.014	0	0.699	14	14	11	8								Light	Light	Moderate	
C	HPLZ1	242	675	250	324.5	0.697	-0.012	-0.002	0.692	16	16	12	8	-0.007	0.002	-0.002	2	0.109	0.080	0.055	Light	Light	Moderate	
A	HPLZ1	243	1350	250	324.5	0.715	-0.019	-0.004	0.710	15	15	11	8								Light	Light	Moderate	
C	HPLZ1	243	1350	250	324.5	0.706	-0.01	-0.005	0.700	15	15	11	8	-0.009	0.009	-0.001	0	0.105	0.078	0.054	Light	Light	Moderate	
A	HPLZ2	301	0	25	324.5	0.55	-0.008	-0.004	0.553	17	17	13	7								Light	Light	Light	
C	HPLZ2	301	0	25	324.5	0.494	-0.015	-0.013	0.500	19	19	13	9	-0.056	-0.007	-0.009	2	0.097	0.067	0.043	Light	Light	Light	

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Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UWV]/Uref	UW	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UWV])	U/Uref	V/Uref	W/Uref	U	V	W	
						(% [UWV])																	
A	HPLZ2	342	675	250	347	0.71	-0.009	0.004	0.705	15	15	11	9					0.105	0.080	0.060	Light	Light	Moderate
C	HPLZ2	342	675	250	347	0.709	-0.006	-0.003	0.704	15	15	12	8	-0.001	0.003	-0.007	0	0.105	0.082	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	347	0.724	-0.01	0	0.718	14	14	11	8					0.103	0.079	0.058	Light	Light	Moderate
C	HPLZ2	343	1350	250	347	0.718	-0.005	-0.007	0.712	14	14	12	8	-0.006	0.005	-0.007	0	0.102	0.084	0.060	Light	Light	Moderate
A	SLZ1	401	0	25	347	0.485	0.006	-0.021	0.494	19	20	15	10					0.098	0.072	0.050	Light	Light	Moderate
C	SLZ1	401	0	25	347	0.476	0.005	-0.022	0.487	20	21	15	11	-0.009	-0.001	-0.001	1	0.101	0.075	0.052	Light	Light	Moderate
A	SLZ1	402	575	25	347	0.563	-0.014	-0.007	0.565	17	17	13	7					0.098	0.072	0.041	Light	Light	Light
C	SLZ1	402	575	25	347	0.55	-0.008	-0.007	0.553	17	17	13	8	-0.013	0.006	0	0	0.091	0.073	0.042	Light	Light	Light
A	SLZ1	403	1150	25	347	0.581	-0.018	-0.003	0.582	17	18	12	7					0.102	0.071	0.039	Light	Light	Light
C	SLZ1	403	1150	25	347	0.579	-0.014	-0.005	0.580	16	16	12	7	-0.002	0.004	-0.002	-1	0.094	0.072	0.042	Light	Light	Light
A	SLZ1	411	0	50	347	0.609	0.004	-0.015	0.609	17	17	13	7					0.102	0.079	0.041	Light	Light	Light
C	SLZ1	411	0	50	347	0.601	0.013	-0.02	0.601	16	16	13	7	-0.008	0.009	-0.005	-1	0.099	0.079	0.042	Light	Light	Light
A	SLZ1	412	575	50	347	0.614	-0.014	-0.005	0.612	17	17	12	7					0.103	0.073	0.041	Light	Light	Light
C	SLZ1	412	575	50	347	0.611	-0.011	-0.005	0.610	17	17	12	7	-0.003	0.003	0	0	0.103	0.074	0.042	Light	Light	Light
A	SLZ1	413	1150	50	347	0.634	-0.013	-0.003	0.632	15	15	12	7					0.095	0.074	0.042	Light	Light	Light
C	SLZ1	413	1150	50	347	0.611	-0.009	-0.003	0.609	17	17	12	7	-0.023	0.004	0	2	0.101	0.075	0.042	Light	Light	Light
A	SLZ1	421	0	100	347	0.657	-0.002	-0.005	0.653	15	15	11	7					0.099	0.071	0.045	Light	Light	Moderate
C	SLZ1	421	0	100	347	0.652	-0.003	-0.005	0.650	16	16	13	7	-0.005	-0.001	0	1	0.106	0.084	0.048	Light	Light	Moderate
A	SLZ1	422	575	100	347	0.671	-0.01	0	0.667	16	16	12	7					0.104	0.079	0.045	Light	Light	Moderate
C	SLZ1	422	575	100	347	0.67	-0.004	-0.001	0.666	15	15	12	7	-0.001	0.006	-0.001	-1	0.101	0.081	0.048	Light	Light	Moderate
A	SLZ1	423	1150	100	347	0.671	-0.008	-0.005	0.666	15	15	11	7					0.102	0.070	0.046	Light	Light	Moderate
C	SLZ1	423	1150	100	347	0.668	-0.015	-0.002	0.664	16	16	11	7	-0.003	-0.007	0.003	1	0.104	0.075	0.047	Light	Light	Moderate
A	SLZ1	431	0	150	347	0.691	-0.003	-0.006	0.686	15	15	11	7					0.101	0.078	0.050	Light	Light	Moderate
C	SLZ1	431	0	150	347	0.684	-0.005	-0.008	0.680	15	15	12	8	-0.007	-0.002	-0.002	0	0.099	0.085	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	347	0.69	-0.016	-0.001	0.685	14	14	12	7					0.095	0.080	0.050	Light	Light	Moderate
C	SLZ1	432	575	150	347	0.685	-0.004	-0.002	0.680	15	15	12	8	-0.005	0.012	-0.001	1	0.105	0.080	0.054	Light	Light	Moderate
A	SLZ1	433	1150	150	347	0.709	-0.017	-0.003	0.704	14	14	11	7					0.101	0.081	0.051	Light	Light	Moderate
C	SLZ1	433	1150	150	347	0.694	-0.007	-0.002	0.689	14	14	11	7	-0.015	0.01	0.001	0	0.097	0.076	0.051	Light	Light	Moderate
A	SLZ1	441	0	250	347	0.729	-0.012	-0.007	0.723	14	13	11	8					0.097	0.080	0.059	Light	Light	Moderate
C	SLZ1	441	0	250	347	0.725	-0.011	-0.006	0.719	14	14	11	8	-0.004	0.001	0.001	0	0.103	0.080	0.057	Light	Light	Moderate
A	SLZ1	442	575	250	347	0.736	-0.018	-0.004	0.729	13	13	11	8					0.095	0.080	0.057	Light	Light	Moderate
C	SLZ1	442	575	250	347	0.71	-0.012	-0.001	0.704	14	14	11	8	-0.026	0.006	0.003	1	0.098	0.079	0.058	Light	Light	Moderate
A	SLZ1	443	1150	250	347	0.733	-0.018	-0.002	0.726	14	14	11	8					0.104	0.078	0.058	Light	Light	Moderate
C	SLZ1	443	1150	250	347	0.745	-0.009	-0.006	0.737	14	13	11	8	0.012	0.009	-0.004	0	0.099	0.082	0.058	Light	Light	Moderate
A	SLZ2	501	0	25	347	0.576	-0.01	-0.006	0.576	16	16	12	7					0.094	0.070	0.040	Light	Light	Light
C	SLZ2	501	0	25	347	0.579	-0.007	-0.007	0.580	16	16	13	7	0.003	0.003	-0.001	0	0.094	0.076	0.041	Light	Light	Light
A	SLZ2	502	575	25	347	0.587	-0.014	-0.004	0.587	17	17	12	7					0.103	0.070	0.040	Light	Light	Light
C	SLZ2	502	575	25	347	0.586	-0.01	-0.005	0.588	17	17	13	7	-0.001	0.004	-0.001	0	0.098	0.079	0.040	Light	Light	Light
A	SLZ2	503	1150	25	347	0.6	-0.014	-0.001	0.600	16	16	12	6					0.093	0.073	0.039	Light	Light	Light
C	SLZ2	503	1150	25	347	0.594	-0.013	-0.003	0.594	16	16	13	7	-0.006	0.001	-0.002	0	0.094	0.077	0.039	Light	Light	Light
A	SLZ2	511	0	50	347	0.621	-0.016	0	0.619	16	16	12	7					0.099	0.074	0.041	Light	Light	Light
C	SLZ2	511	0	50	347	0.613	-0.007	-0.002	0.612	16	16	13	7	-0.008	0.009	-0.002	0	0.099	0.077	0.041	Light	Light	Light
A	SLZ2	512	575	50	347	0.632	-0.01	0	0.630	16	16	12	7					0.098	0.075	0.042	Light	Light	Light
C	SLZ2	512	575	50	347	0.614	-0.007	-0.003	0.613	17	17	12	7	-0.018	0.003	-0.003	1	0.102	0.076	0.043	Light	Light	Light
A	SLZ2	513	1150	50	347	0.629	-0.011	0.001	0.626	16	16	11	7					0.098	0.070	0.042	Light	Light	Light
C	SLZ2	513	1150	50	347	0.629	-0.011	-0.001	0.627	17	17	12	7	0	0	-0.002	1	0.106	0.077	0.041	Light	Light	Light
A	SLZ2	521	0	100	347	0.671	-0.015	-0.001	0.667	16	16	11	7					0.105	0.076	0.047	Light	Light	Moderate
C	SLZ2	521	0	100	347	0.666	-0.008	-0.004	0.663	16	15	12	7	-0.005	0.007	-0.003	0	0.103	0.078	0.048	Light	Light	Moderate
A	SLZ2	522	575	100	347	0.667	-0.017	0.001	0.664	15	15	12	7					0.099	0.078	0.046	Light	Light	Moderate
C	SLZ2	522	575	100	347	0.657	-0.006	0.002	0.653	15	15	12	7	-0.01	0.011	0.001	0	0.098	0.079	0.047	Light	Light	Moderate
A	SLZ2	523	1150	100	347	0.676	-0.018	-0.002	0.671	15	15	11	7					0.103	0.077	0.047	Light	Light	Moderate
C	SLZ2	523	1150	100	347	0.664	-0.011	0.001	0.660	15	15	12	7	-0.012	0.007	0.003	0	0.101	0.076	0.047	Light	Light	Moderate
A	SLZ2	531	0	150	347	0.699	-0.014	-0.003	0.694	14	14	12	7					0.098	0.080	0.049	Light	Light	Moderate
C	SLZ2	531	0	150	347	0.687	-0.01	-0.002	0.682	15	15	12	8	-0.012	0.004	0.001	1	0.101	0.079	0.051	Light	Light	Moderate
A	SLZ2	532	575	150	347	0.699	-0.019	0.001	0.693	15	15	11	7					0.101	0.073	0.051	Light	Light	Moderate
C	SLZ2	532	575	150	347	0.697	-0.007	-0.004	0.692	15	15	12	7	-0.002	0.012	-0.005	0	0.102	0.082	0.051	Light	Light	Moderate

Table B2: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & C

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	SLZ2	533	1150	150	347	0.708	-0.015	-0.001	0.702	14	13	11	7					0.095	0.080	0.049	Light	Light	Moderate
C	SLZ2	533	1150	150	347	0.694	-0.015	-0.002	0.688	15	15	11	7	-0.014	0	-0.001	1	0.101	0.073	0.051	Light	Light	Moderate
A	SLZ2	541	0	250	347	0.716	-0.012	0.003	0.711	14	14	12	8					0.099	0.084	0.059	Light	Light	Moderate
C	SLZ2	541	0	250	347	0.728	-0.008	-0.003	0.722	15	15	11	8	0.012	0.004	-0.006	1	0.106	0.079	0.059	Light	Light	Moderate
A	SLZ2	542	575	250	347	0.72	-0.01	-0.003	0.714	15	15	11	8					0.104	0.077	0.059	Light	Light	Moderate
C	SLZ2	542	575	250	347	0.73	-0.006	-0.006	0.723	15	15	11	8	0.01	0.004	-0.003	0	0.106	0.080	0.057	Light	Light	Moderate
A	SLZ2	543	1150	250	347	0.739	-0.013	-0.002	0.732	14	14	11	8					0.103	0.081	0.061	Light	Light	Moderate
C	SLZ2	543	1150	250	347	0.718	-0.014	-0.003	0.712	14	14	11	8	-0.021	-0.001	-0.001	0	0.097	0.077	0.059	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	101	0	25	32	0.569	-0.012	0.008	0.579	20	20	15	8					0.116	0.085	0.047	Light	Light	Moderate
D	Runway	101	0	25	32	0.55	-0.015	0.006	0.562	19	19	15	8	-0.019	-0.003	-0.002	-1	0.107	0.087	0.046	Light	Light	Moderate
A	Runway	102	695	25	32	0.561	-0.013	0.009	0.570	17	18	13	7					0.100	0.077	0.043	Light	Light	Light
D	Runway	102	695	25	32	0.544	0.007	0.008	0.554	18	19	14	8	-0.017	0.02	-0.001	1	0.103	0.077	0.043	Light	Light	Light
A	Runway	103	1389	25	32	0.553	-0.02	0.001	0.563	18	18	14	8					0.099	0.077	0.044	Light	Light	Moderate
D	Runway	103	1389	25	32	0.535	0.006	-0.001	0.546	18	18	14	8	-0.018	0.026	-0.002	0	0.100	0.075	0.044	Light	Light	Moderate
A	Runway	104	2064	25	32	0.569	-0.011	-0.003	0.578	17	17	14	8					0.100	0.081	0.044	Light	Light	Moderate
D	Runway	104	2064	25	32	0.52	0	0.002	0.533	20	20	15	9	-0.049	0.011	0.005	3	0.105	0.082	0.046	Light	Light	Moderate
A	Runway	105	2739	25	32	0.571	-0.013	-0.006	0.580	17	17	13	7					0.096	0.075	0.043	Light	Light	Light
D	Runway	105	2739	25	32	0.58	-0.009	-0.003	0.587	16	16	12	7	0.009	0.004	0.003	-1	0.097	0.072	0.040	Light	Light	Light
A	Runway	106	3300	25	32	0.499	0.014	0.003	0.517	21	22	18	11					0.116	0.091	0.058	Light	Light	Moderate
D	Runway	106	3300	25	32	0.519	0.02	-0.001	0.535	21	21	17	10	0.02	0.006	-0.004	0	0.113	0.089	0.055	Light	Light	Moderate
A	Runway	107	3875	25	32	0.587	0.004	0.003	0.594	16	16	12	7					0.097	0.071	0.044	Light	Light	Moderate
D	Runway	107	3875	25	32	0.583	0.001	0.003	0.590	16	16	12	7	-0.004	-0.003	0	0	0.096	0.073	0.041	Light	Light	Light
A	Runway	108	4450	25	32	0.613	-0.011	0	0.619	16	16	12	7					0.098	0.073	0.040	Light	Light	Light
D	Runway	108	4450	25	32	0.613	-0.008	0.003	0.620	16	16	12	7	0	0.003	0.003	0	0.098	0.073	0.040	Light	Light	Light
A	Runway	111	0	50	32	0.606	-0.013	0.01	0.615	18	19	14	8					0.115	0.087	0.050	Light	Light	Moderate
D	Runway	111	0	50	32	0.601	-0.011	0.01	0.610	19	19	14	8	-0.005	0.002	0	1	0.115	0.083	0.046	Light	Light	Moderate
A	Runway	112	695	50	32	0.617	-0.01	0.012	0.624	16	16	13	7					0.101	0.080	0.045	Light	Light	Moderate
D	Runway	112	695	50	32	0.596	0.002	0.008	0.604	18	18	13	7	-0.021	0.012	-0.004	2	0.109	0.079	0.044	Light	Light	Moderate
A	Runway	113	1389	50	32	0.604	-0.015	0.009	0.612	17	17	13	7					0.101	0.081	0.044	Light	Light	Moderate
D	Runway	113	1389	50	32	0.585	0	0.004	0.594	17	18	13	8	-0.019	0.015	-0.005	0	0.104	0.077	0.045	Light	Light	Moderate
A	Runway	114	2064	50	32	0.622	-0.015	0.005	0.628	17	17	13	7					0.105	0.080	0.044	Light	Light	Moderate
D	Runway	114	2064	50	32	0.578	-0.002	0.005	0.586	18	18	13	8	-0.044	0.013	0	1	0.106	0.077	0.046	Light	Light	Moderate
A	Runway	115	2739	50	32	0.641	-0.019	0.004	0.647	15	15	13	6					0.099	0.082	0.042	Light	Light	Light
D	Runway	115	2739	50	32	0.622	-0.013	0.005	0.628	16	16	12	6	-0.019	0.006	0.001	1	0.098	0.076	0.040	Light	Light	Light
A	Runway	116	3300	50	32	0.568	0.002	-0.004	0.581	20	21	16	10					0.120	0.093	0.057	Light	Light	Moderate
D	Runway	116	3300	50	32	0.579	0.008	-0.007	0.592	21	21	16	9	0.011	0.006	-0.003	1	0.125	0.096	0.052	Light	Light	Moderate
A	Runway	117	3875	50	32	0.659	0.006	0.01	0.663	16	16	12	6					0.107	0.078	0.043	Light	Light	Light
D	Runway	117	3875	50	32	0.657	0.003	0.012	0.662	16	15	12	6	-0.002	-0.003	0.002	0	0.102	0.081	0.042	Light	Light	Light
A	Runway	118	4450	50	32	0.661	-0.004	0.009	0.666	15	15	12	7					0.102	0.081	0.043	Light	Light	Light
D	Runway	118	4450	50	32	0.669	-0.005	0.008	0.673	15	15	12	6	0.008	-0.001	-0.001	0	0.102	0.080	0.042	Light	Light	Light
A	Runway	121	0	100	32	0.661	-0.014	0.01	0.668	17	17	13	8					0.114	0.087	0.053	Light	Light	Moderate
D	Runway	121	0	100	32	0.658	-0.015	0.01	0.664	17	17	12	8	-0.003	-0.001	0	0	0.111	0.082	0.051	Light	Light	Moderate
A	Runway	122	695	100	32	0.656	-0.014	0.015	0.662	17	17	13	7					0.111	0.086	0.047	Light	Light	Moderate
D	Runway	122	695	100	32	0.648	-0.002	0.014	0.653	15	15	12	7	-0.008	0.012	-0.001	-2	0.100	0.080	0.046	Light	Light	Moderate
A	Runway	123	1389	100	32	0.663	-0.018	0.012	0.669	15	15	13	7					0.102	0.088	0.047	Light	Light	Moderate
D	Runway	123	1389	100	32	0.663	-0.011	0.01	0.668	16	15	13	7	0	0.007	-0.002	1	0.103	0.084	0.045	Light	Light	Moderate
A	Runway	124	2064	100	32	0.682	-0.014	0.009	0.687	15	15	12	7					0.105	0.084	0.048	Light	Light	Moderate
D	Runway	124	2064	100	32	0.636	-0.01	0.01	0.642	18	18	12	7	-0.046	0.004	0.001	3	0.115	0.079	0.047	Light	Light	Moderate
A	Runway	125	2739	100	32	0.685	-0.014	0.01	0.690	16	16	12	7					0.107	0.086	0.047	Light	Light	Moderate
D	Runway	125	2739	100	32	0.683	-0.018	0.009	0.687	15	15	12	7	-0.002	-0.004	-0.001	-1	0.102	0.080	0.047	Light	Light	Moderate
A	Runway	126	3300	100	32	0.681	-0.012	0.005	0.687	15	15	13	7					0.105	0.089	0.048	Light	Light	Moderate
D	Runway	126	3300	100	32	0.674	-0.003	0.004	0.678	15	15	12	7	-0.007	0.009	-0.001	0	0.104	0.082	0.045	Light	Light	Moderate
A	Runway	127	3875	100	32	0.708	-0.003	0.017	0.712	15	15	12	7					0.103	0.089	0.048	Light	Light	Moderate
D	Runway	127	3875	100	32	0.706	-0.003	0.016	0.709	14	14	12	6	-0.002	0	-0.001	-1	0.101	0.084	0.046	Light	Light	Moderate
A	Runway	128	4450	100	32	0.721	-0.001	0.014	0.723	13	13	12	7					0.097	0.086	0.048	Light	Light	Moderate
D	Runway	128	4450	100	32	0.724	-0.003	0.011	0.726	14	14	11	6	0.003	-0.002	-0.003	1	0.105	0.080	0.045	Light	Light	Moderate
A	Runway	131	0	150	32	0.694	-0.01	0.009	0.698	17	17	13	8					0.116	0.087	0.054	Light	Light	Moderate
D	Runway	131	0	150	32	0.684	-0.017	0.012	0.689	15	15	12	8	-0.01	-0.007	0.003	-2	0.107	0.085	0.053	Light	Light	Moderate
A	Runway	132	695	150	32	0.692	-0.019	0.017	0.697	15	15	13	7					0.106	0.087	0.052	Light	Light	Moderate
D	Runway	132	695	150	32	0.675	-0.007	0.017	0.680	16	16	13	8	-0.017	0.012	0	1	0.107	0.085	0.052	Light	Light	Moderate
A	Runway	133	1389	150	32	0.694	-0.007	0.013	0.698	15	15	12	8					0.105	0.086	0.053	Light	Light	Moderate
D	Runway	133	1389	150	32	0.697	-0.012	0.01	0.701	14	14	12	7	0.003	-0.005	-0.003	-1	0.098	0.086	0.048	Light	Light	Moderate
A	Runway	134	2064	150	32	0.694	-0.013	0.011	0.698	15	15	12	7					0.101	0.086	0.052	Light	Light	Moderate
D	Runway	134	2064	150	32	0.704	-0.009	0.013	0.708	15	15	12	7	0.01	0.004	0.002	0	0.107	0.087	0.049	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	135	2739	150	32	0.709	-0.017	0.006	0.712	15	15	12	7					0.105	0.088	0.053	Light	Light	Moderate
D	Runway	135	2739	150	32	0.729	-0.013	0.006	0.731	15	15	12	7	0.02	0.004	0	0	0.106	0.086	0.051	Light	Light	Moderate
A	Runway	136	3300	150	32	0.712	-0.006	0.011	0.716	14	14	13	7					0.103	0.094	0.051	Light	Light	Moderate
D	Runway	136	3300	150	32	0.703	-0.007	0.009	0.706	15	14	12	7	-0.009	-0.001	-0.002	1	0.102	0.085	0.050	Light	Light	Moderate
A	Runway	137	3875	150	32	0.736	0.001	0.016	0.738	13	14	11	7					0.100	0.083	0.053	Light	Light	Moderate
D	Runway	137	3875	150	32	0.734	-0.002	0.016	0.736	14	14	11	7	-0.002	-0.003	0	1	0.103	0.084	0.050	Light	Light	Moderate
A	Runway	138	4450	150	32	0.732	0	0.009	0.734	13	13	11	7					0.098	0.082	0.052	Light	Light	Moderate
D	Runway	138	4450	150	32	0.745	-0.012	0.011	0.746	14	14	11	7	0.013	-0.012	0.002	1	0.101	0.083	0.051	Light	Light	Moderate
A	Runway	141	0	250	32	0.736	-0.021	0.011	0.741	15	15	13	9					0.113	0.093	0.064	Light	Light	Moderate
D	Runway	141	0	250	32	0.74	-0.019	0.01	0.744	14	14	12	8	0.004	0.002	-0.001	-1	0.107	0.089	0.060	Light	Light	Moderate
A	Runway	142	695	250	32	0.712	-0.013	0.011	0.716	15	15	12	9					0.107	0.084	0.061	Light	Light	Moderate
D	Runway	142	695	250	32	0.715	-0.014	0.017	0.719	15	15	12	8	0.003	-0.001	0.006	0	0.110	0.087	0.058	Light	Light	Moderate
A	Runway	143	1389	250	32	0.727	-0.017	0.011	0.732	14	14	13	8					0.105	0.092	0.062	Light	Light	Moderate
D	Runway	143	1389	250	32	0.713	-0.007	0.011	0.717	14	14	11	8	-0.014	0.01	0	0	0.100	0.081	0.059	Light	Light	Moderate
A	Runway	144	2064	250	32	0.731	-0.009	0.01	0.734	14	14	12	8					0.105	0.089	0.061	Light	Light	Moderate
D	Runway	144	2064	250	32	0.731	-0.009	0.013	0.734	14	14	11	8	0	0	0.003	0	0.101	0.084	0.059	Light	Light	Moderate
A	Runway	145	2739	250	32	0.749	-0.018	0.007	0.751	14	14	11	8					0.104	0.083	0.057	Light	Light	Moderate
D	Runway	145	2739	250	32	0.739	-0.008	0.009	0.741	15	15	11	8	-0.01	0.01	0.002	1	0.108	0.083	0.057	Light	Light	Moderate
A	Runway	146	3300	250	32	0.75	-0.011	0.012	0.752	13	13	12	8					0.098	0.090	0.060	Light	Light	Moderate
D	Runway	146	3300	250	32	0.756	-0.006	0.015	0.759	14	14	12	8	0.006	0.005	0.003	1	0.104	0.090	0.058	Light	Light	Moderate
A	Runway	147	3875	250	32	0.761	-0.001	0.013	0.763	13	13	11	8					0.102	0.085	0.058	Light	Light	Moderate
D	Runway	147	3875	250	32	0.772	-0.001	0.012	0.774	13	13	11	8	0.011	0	-0.001	0	0.104	0.088	0.060	Light	Light	Moderate
A	Runway	148	4450	250	32	0.758	-0.005	0.013	0.759	15	15	11	8					0.112	0.082	0.061	Light	Light	Moderate
D	Runway	148	4450	250	32	0.779	-0.007	0.011	0.779	13	13	11	7	0.021	-0.002	-0.002	-2	0.100	0.082	0.057	Light	Light	Moderate
A	HPLZ1	201	0	25	32	0.556	-0.012	0.009	0.566	18	18	14	8					0.101	0.080	0.044	Light	Light	Moderate
D	HPLZ1	201	0	25	32	0.488	0.001	0	0.504	21	22	17	10	-0.068	0.013	-0.009	3	0.109	0.084	0.050	Light	Light	Moderate
A	HPLZ1	202	675	25	32	0.583	-0.017	0.01	0.592	16	16	13	7					0.097	0.079	0.042	Light	Light	Light
D	HPLZ1	202	675	25	32	0.531	-0.012	0.016	0.543	19	19	15	8	-0.052	0.005	0.006	3	0.102	0.081	0.043	Light	Light	Light
A	HPLZ1	203	1350	25	32	0.568	-0.028	0.003	0.577	17	17	14	7					0.095	0.079	0.043	Light	Light	Light
D	HPLZ1	203	1350	25	32	0.556	-0.026	0	0.566	17	17	13	8	-0.012	0.002	-0.003	0	0.099	0.074	0.043	Light	Light	Light
A	HPLZ1	211	0	50	32	0.608	-0.015	0.013	0.616	16	16	13	7					0.100	0.082	0.043	Light	Light	Light
D	HPLZ1	211	0	50	32	0.567	-0.003	0.004	0.577	20	20	14	8	-0.041	0.012	-0.009	-4	0.114	0.080	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	32	0.626	-0.012	0.013	0.632	16	16	13	6					0.104	0.082	0.041	Light	Light	Light
D	HPLZ1	212	675	50	32	0.586	-0.02	0.01	0.596	20	20	14	8	-0.04	-0.008	-0.003	-4	0.119	0.084	0.047	Light	Light	Moderate
A	HPLZ1	213	1350	50	32	0.629	-0.025	0.013	0.636	15	15	12	7					0.098	0.078	0.042	Light	Light	Light
D	HPLZ1	213	1350	50	32	0.632	-0.015	0.014	0.638	16	16	13	6	0.003	0.01	0.001	1	0.104	0.084	0.040	Light	Light	Light
A	HPLZ1	221	0	100	32	0.672	-0.014	0.013	0.677	16	16	13	7					0.107	0.085	0.047	Light	Light	Moderate
D	HPLZ1	221	0	100	32	0.651	-0.012	0.007	0.657	16	16	13	7	-0.021	0.002	-0.006	0	0.107	0.085	0.045	Light	Light	Moderate
A	HPLZ1	222	675	100	32	0.68	-0.019	0.016	0.685	15	15	12	7					0.104	0.083	0.046	Light	Light	Moderate
D	HPLZ1	222	675	100	32	0.666	-0.007	0.008	0.672	17	17	14	7	-0.014	0.012	-0.008	2	0.112	0.091	0.048	Light	Light	Moderate
A	HPLZ1	223	1350	100	32	0.688	-0.018	0.019	0.692	15	14	13	6					0.100	0.087	0.045	Light	Light	Moderate
D	HPLZ1	223	1350	100	32	0.682	-0.02	0.018	0.687	15	15	12	6	-0.006	-0.002	-0.001	0	0.103	0.086	0.044	Light	Light	Moderate
A	HPLZ1	231	0	150	32	0.694	-0.018	0.015	0.699	15	15	12	7					0.102	0.085	0.050	Light	Light	Moderate
D	HPLZ1	231	0	150	32	0.676	-0.008	0.012	0.681	14	14	12	7	-0.018	0.01	-0.003	-1	0.096	0.083	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	32	0.704	-0.013	0.014	0.708	14	14	12	7					0.101	0.085	0.051	Light	Light	Moderate
D	HPLZ1	232	675	150	32	0.701	-0.011	0.015	0.704	15	15	12	7	-0.003	0.002	0.001	1	0.105	0.083	0.050	Light	Light	Moderate
A	HPLZ1	233	1350	150	32	0.711	-0.012	0.016	0.714	15	15	12	7					0.104	0.086	0.051	Light	Light	Moderate
D	HPLZ1	233	1350	150	32	0.711	-0.01	0.017	0.715	14	14	13	7	0	0.002	0.001	-1	0.099	0.092	0.049	Light	Light	Moderate
A	HPLZ1	241	0	250	32	0.718	-0.02	0.013	0.722	14	14	12	8					0.104	0.086	0.058	Light	Light	Moderate
D	HPLZ1	241	0	250	32	0.704	-0.009	0.015	0.708	14	14	12	8	-0.014	0.011	0.002	0	0.101	0.084	0.059	Light	Light	Moderate
A	HPLZ1	242	675	250	32	0.742	-0.015	0.011	0.745	14	14	12	8					0.102	0.090	0.061	Light	Light	Moderate
D	HPLZ1	242	675	250	32	0.732	-0.013	0.014	0.736	14	14	12	8	-0.01	0.002	0.003	0	0.103	0.088	0.059	Light	Light	Moderate
A	HPLZ1	243	1350	250	32	0.749	-0.015	0.014	0.751	14	13	11	8					0.101	0.084	0.058	Light	Light	Moderate
D	HPLZ1	243	1350	250	32	0.754	-0.01	0.011	0.755	14	14	11	8	0.005	0.005	-0.003	0	0.104	0.084	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	32	0.544	-0.015	0.009	0.556	19	19	15	8					0.103	0.084	0.044	Light	Light	Moderate
D	HPLZ2	301	0	25	32	0.478	-0.003	-0.015	0.496	21	22	16	10	-0.066	0.012	-0.024	2	0.108	0.081	0.050	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ2	302	675	25	32	0.582	-0.008	0.012	0.590	18	18	14	7					0.103	0.082	0.041	Light	Light	Light
D	HPLZ2	302	675	25	32	0.577	-0.013	0.011	0.585	17	17	13	7	-0.005	-0.005	-0.001	-1	0.101	0.076	0.041	Light	Light	Light
A	HPLZ2	303	1350	25	32	0.57	-0.004	0.003	0.580	17	17	14	8					0.098	0.081	0.044	Light	Light	Moderate
D	HPLZ2	303	1350	25	32	0.564	-0.011	0.001	0.572	16	16	13	7	-0.006	-0.007	-0.002	-1	0.092	0.073	0.041	Light	Light	Light
A	HPLZ2	311	0	50	32	0.614	-0.02	0.008	0.622	18	18	13	7					0.115	0.082	0.044	Light	Light	Moderate
D	HPLZ2	311	0	50	32	0.583	-0.02	-0.007	0.593	20	20	14	8	-0.031	0	-0.015	2	0.121	0.082	0.046	Light	Light	Moderate
A	HPLZ2	312	675	50	32	0.637	-0.007	0.012	0.643	16	16	13	6					0.101	0.082	0.041	Light	Light	Light
D	HPLZ2	312	675	50	32	0.634	-0.018	0.009	0.640	16	16	13	7	-0.003	-0.011	-0.003	0	0.102	0.082	0.042	Light	Light	Light
A	HPLZ2	313	1350	50	32	0.638	-0.011	0.008	0.644	16	16	13	7					0.105	0.085	0.043	Light	Light	Light
D	HPLZ2	313	1350	50	32	0.645	-0.003	0.01	0.651	15	15	13	6	0.007	0.008	0.002	-1	0.100	0.083	0.042	Light	Light	Light
A	HPLZ2	321	0	100	32	0.676	-0.017	0.009	0.681	16	16	13	7					0.107	0.087	0.047	Light	Light	Moderate
D	HPLZ2	321	0	100	32	0.665	-0.019	0.003	0.671	17	17	14	7	-0.011	-0.002	-0.006	1	0.112	0.092	0.044	Light	Light	Moderate
A	HPLZ2	322	675	100	32	0.685	-0.014	0.016	0.690	15	15	12	7					0.102	0.086	0.046	Light	Light	Moderate
D	HPLZ2	322	675	100	32	0.693	-0.017	0.014	0.698	15	15	14	7	0.008	-0.003	-0.002	0	0.108	0.094	0.046	Light	Light	Moderate
A	HPLZ2	323	1350	100	32	0.685	-0.008	0.012	0.689	15	15	12	7					0.103	0.084	0.048	Light	Light	Moderate
D	HPLZ2	323	1350	100	32	0.698	-0.011	0.01	0.702	16	15	12	7	0.013	-0.003	-0.002	1	0.109	0.086	0.046	Light	Light	Moderate
A	HPLZ2	331	0	150	32	0.694	-0.011	0.014	0.698	15	15	12	7					0.108	0.086	0.051	Light	Light	Moderate
D	HPLZ2	331	0	150	32	0.696	-0.019	0.012	0.701	14	14	13	7	0.002	-0.008	-0.002	-1	0.101	0.089	0.051	Light	Light	Moderate
A	HPLZ2	332	675	150	32	0.716	-0.011	0.015	0.720	14	14	13	7					0.101	0.091	0.051	Light	Light	Moderate
D	HPLZ2	332	675	150	32	0.711	-0.017	0.013	0.715	15	15	12	7	-0.005	-0.006	-0.002	1	0.104	0.088	0.052	Light	Light	Moderate
A	HPLZ2	333	1350	150	32	0.717	-0.008	0.011	0.720	14	14	12	7					0.100	0.088	0.053	Light	Light	Moderate
D	HPLZ2	333	1350	150	32	0.706	-0.014	0.015	0.710	14	14	12	7	-0.011	-0.006	0.004	0	0.102	0.088	0.052	Light	Light	Moderate
A	HPLZ2	341	0	250	32	0.732	-0.02	0.011	0.736	15	15	12	8					0.107	0.091	0.060	Light	Light	Moderate
D	HPLZ2	341	0	250	32	0.721	-0.014	0.008	0.725	15	15	12	8	-0.011	0.006	-0.003	0	0.108	0.087	0.058	Light	Light	Moderate
A	HPLZ2	342	675	250	32	0.741	-0.013	0.006	0.743	14	14	12	8					0.106	0.088	0.059	Light	Light	Moderate
D	HPLZ2	342	675	250	32	0.742	-0.017	0.012	0.744	14	14	11	8	0.001	-0.004	0.006	0	0.103	0.082	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	32	0.744	-0.011	0.011	0.747	14	14	12	8					0.106	0.090	0.061	Light	Light	Moderate
D	HPLZ2	343	1350	250	32	0.752	-0.009	0.012	0.755	13	13	12	8	0.008	0.002	0.001	-1	0.101	0.092	0.058	Light	Light	Moderate
A	SLZ1	401	0	25	32	0.563	-0.014	-0.012	0.572	18	18	13	8					0.102	0.076	0.045	Light	Light	Moderate
D	SLZ1	401	0	25	32	0.563	-0.025	-0.011	0.573	18	18	13	8	0	-0.011	0.001	0	0.106	0.074	0.045	Light	Light	Moderate
A	SLZ1	402	575	25	32	0.601	-0.01	0.003	0.608	16	16	13	7					0.097	0.076	0.042	Light	Light	Light
D	SLZ1	402	575	25	32	0.612	-0.011	0.002	0.618	17	17	12	6	0.011	-0.001	-0.001	1	0.102	0.076	0.040	Light	Light	Light
A	SLZ1	403	1150	25	32	0.622	-0.003	0.007	0.628	16	16	12	7					0.101	0.077	0.041	Light	Light	Light
D	SLZ1	403	1150	25	32	0.64	-0.001	0.006	0.646	16	16	12	6	0.018	0.002	-0.001	0	0.101	0.080	0.039	Light	Light	Light
A	SLZ1	411	0	50	32	0.634	-0.014	0.001	0.639	16	16	12	7					0.101	0.077	0.043	Light	Light	Light
D	SLZ1	411	0	50	32	0.629	-0.011	0.002	0.635	16	16	12	7	-0.005	0.003	0.001	0	0.103	0.076	0.042	Light	Light	Light
A	SLZ1	412	575	50	32	0.667	-0.009	0.01	0.672	16	15	13	6					0.104	0.086	0.043	Light	Light	Light
D	SLZ1	412	575	50	32	0.653	-0.003	0.013	0.659	15	15	13	6	-0.014	0.006	0.003	-1	0.101	0.085	0.039	Light	Light	Light
A	SLZ1	413	1150	50	32	0.679	-0.006	0.008	0.683	15	15	12	6					0.103	0.080	0.044	Light	Light	Moderate
D	SLZ1	413	1150	50	32	0.673	-0.004	0.012	0.676	14	14	11	6	-0.006	0.002	0.004	-1	0.098	0.075	0.040	Light	Light	Light
A	SLZ1	421	0	100	32	0.691	-0.013	0.008	0.695	15	15	12	7					0.107	0.083	0.047	Light	Light	Moderate
D	SLZ1	421	0	100	32	0.688	-0.009	0.006	0.691	14	14	12	7	-0.003	0.004	-0.002	-1	0.097	0.084	0.046	Light	Light	Moderate
A	SLZ1	422	575	100	32	0.706	-0.007	0.015	0.710	15	15	12	6					0.108	0.087	0.046	Light	Light	Moderate
D	SLZ1	422	575	100	32	0.704	-0.001	0.012	0.707	14	14	12	7	-0.002	0.006	-0.003	-1	0.098	0.083	0.047	Light	Light	Moderate
A	SLZ1	423	1150	100	32	0.703	0	0.011	0.707	14	14	12	7					0.100	0.082	0.048	Light	Light	Moderate
D	SLZ1	423	1150	100	32	0.713	-0.001	0.013	0.715	14	14	11	6	0.01	-0.001	0.002	0	0.099	0.079	0.045	Light	Light	Moderate
A	SLZ1	431	0	150	32	0.727	-0.011	0.009	0.730	14	14	11	7					0.104	0.083	0.052	Light	Light	Moderate
D	SLZ1	431	0	150	32	0.738	-0.009	0.01	0.741	14	14	13	7	0.011	0.002	0.001	0	0.101	0.096	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	32	0.721	-0.003	0.012	0.723	15	14	12	7					0.104	0.086	0.052	Light	Light	Moderate
D	SLZ1	432	575	150	32	0.744	-0.006	0.014	0.746	14	14	11	7	0.023	-0.003	0.002	-1	0.105	0.081	0.051	Light	Light	Moderate
A	SLZ1	433	1150	150	32	0.732	0.005	0.014	0.735	14	14	12	7					0.102	0.085	0.051	Light	Light	Moderate
D	SLZ1	433	1150	150	32	0.755	-0.006	0.008	0.756	12	12	10	7	0.023	-0.011	-0.006	-2	0.094	0.078	0.051	Light	Light	Moderate
A	SLZ1	441	0	250	32	0.749	-0.006	0.009	0.751	14	14	12	8					0.106	0.088	0.060	Light	Light	Moderate
D	SLZ1	441	0	250	32	0.763	-0.012	0.007	0.765	14	14	11	8	0.014	-0.006	-0.002	0	0.104	0.085	0.059	Light	Light	Moderate
A	SLZ1	442	575	250	32	0.761	-0.015	0.013	0.762	14	14	11	8					0.105	0.085	0.059	Light	Light	Moderate
D	SLZ1	442	575	250	32	0.769	0.001	0.015	0.770	13	13	11	8	0.008	0.016	0.002	-1	0.102	0.084	0.058	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ1	443	1150	250	32	0.778	-0.003	0.005	0.778	13	12	11	7					0.097	0.085	0.058	Light	Light	Moderate
D	SLZ1	443	1150	250	32	0.783	-0.004	0.01	0.783	13	13	11	7	0.005	-0.001	0.005	0	0.099	0.084	0.056	Light	Light	Moderate
A	SLZ2	501	0	25	32	0.595	-0.005	0.005	0.602	17	17	12	7					0.104	0.073	0.043	Light	Light	Light
D	SLZ2	501	0	25	32	0.593	-0.002	0.003	0.601	16	16	14	7	-0.002	0.003	-0.002	-1	0.098	0.082	0.041	Light	Light	Light
A	SLZ2	502	575	25	32	0.602	-0.008	0.009	0.609	16	16	12	7					0.099	0.074	0.042	Light	Light	Light
D	SLZ2	502	575	25	32	0.614	-0.01	0.006	0.621	16	16	12	6	0.012	-0.002	-0.003	0	0.101	0.077	0.039	Light	Light	Light
A	SLZ2	503	1150	25	32	0.627	-0.004	0.006	0.633	15	15	12	7					0.097	0.077	0.041	Light	Light	Light
D	SLZ2	503	1150	25	32	0.631	-0.008	0.006	0.636	16	16	11	6	0.004	-0.004	0	1	0.099	0.073	0.041	Light	Light	Light
A	SLZ2	511	0	50	32	0.653	-0.01	0.011	0.658	17	17	12	6					0.110	0.081	0.042	Light	Light	Light
D	SLZ2	511	0	50	32	0.649	-0.005	0.011	0.655	16	16	13	6	-0.004	0.005	0	-1	0.104	0.086	0.042	Light	Light	Light
A	SLZ2	512	575	50	32	0.665	-0.008	0.011	0.670	16	16	12	6					0.106	0.083	0.043	Light	Light	Light
D	SLZ2	512	575	50	32	0.658	-0.002	0.01	0.663	16	16	12	6	-0.007	0.006	-0.001	0	0.104	0.081	0.043	Light	Light	Light
A	SLZ2	513	1150	50	32	0.662	-0.006	0.012	0.667	16	16	12	7					0.106	0.080	0.044	Light	Light	Moderate
D	SLZ2	513	1150	50	32	0.679	-0.003	0.012	0.683	15	15	12	6	0.017	0.003	0	-1	0.101	0.080	0.043	Light	Light	Light
A	SLZ2	521	0	100	32	0.692	0.001	0.012	0.696	15	15	12	7					0.105	0.082	0.050	Light	Light	Moderate
D	SLZ2	521	0	100	32	0.702	-0.006	0.011	0.706	15	15	12	7	0.01	-0.007	-0.001	0	0.106	0.087	0.046	Light	Light	Moderate
A	SLZ2	522	575	100	32	0.709	-0.007	0.014	0.712	15	15	12	7					0.108	0.086	0.047	Light	Light	Moderate
D	SLZ2	522	575	100	32	0.705	-0.006	0.012	0.708	14	14	12	7	-0.004	0.001	-0.002	-1	0.102	0.082	0.047	Light	Light	Moderate
A	SLZ2	523	1150	100	32	0.71	-0.006	0.014	0.713	14	14	11	7					0.102	0.080	0.048	Light	Light	Moderate
D	SLZ2	523	1150	100	32	0.728	0	0.012	0.730	14	14	11	6	0.018	0.006	-0.002	0	0.104	0.082	0.045	Light	Light	Moderate
A	SLZ2	531	0	150	32	0.724	-0.004	0.013	0.728	15	15	12	7					0.110	0.088	0.053	Light	Light	Moderate
D	SLZ2	531	0	150	32	0.725	-0.004	0.013	0.729	14	14	12	7	0.001	0	0	-1	0.105	0.091	0.054	Light	Light	Moderate
A	SLZ2	532	575	150	32	0.728	-0.009	0.015	0.731	14	15	12	7					0.106	0.086	0.054	Light	Light	Moderate
D	SLZ2	532	575	150	32	0.739	-0.01	0.01	0.741	14	14	11	7	0.011	-0.001	-0.005	0	0.106	0.081	0.050	Light	Light	Moderate
A	SLZ2	533	1150	150	32	0.732	0.003	0.013	0.734	13	13	11	7					0.096	0.082	0.052	Light	Light	Moderate
D	SLZ2	533	1150	150	32	0.754	0.001	0.014	0.755	14	14	11	7	0.022	-0.002	0.001	1	0.104	0.085	0.050	Light	Light	Moderate
A	SLZ2	541	0	250	32	0.758	-0.016	0.012	0.760	14	14	12	8					0.105	0.088	0.060	Light	Light	Moderate
D	SLZ2	541	0	250	32	0.764	-0.007	0.009	0.765	13	13	11	8	0.006	0.009	-0.003	-1	0.101	0.083	0.059	Light	Light	Moderate
A	SLZ2	542	575	250	32	0.773	-0.012	0.008	0.774	13	13	11	8					0.098	0.085	0.061	Light	Light	Moderate
D	SLZ2	542	575	250	32	0.759	-0.006	0.012	0.761	14	14	11	8	-0.014	0.006	0.004	1	0.106	0.085	0.061	Light	Light	Moderate
A	SLZ2	543	1150	250	32	0.78	-0.003	0.008	0.781	13	13	11	8					0.099	0.083	0.060	Light	Light	Moderate
D	SLZ2	543	1150	250	32	0.779	-0.001	0.008	0.779	13	13	10	7	-0.001	0.002	0	0	0.105	0.080	0.057	Light	Light	Moderate
A	Runway	101	0	25	167	0.59	-0.008	0.006	0.598	18	18	13	7					0.107	0.078	0.041	Light	Light	Light
D	Runway	101	0	25	167	0.589	-0.007	0.007	0.596	16	16	12	7	-0.001	0.001	0.001	-2	0.098	0.070	0.041	Light	Light	Light
A	Runway	102	695	25	167	0.567	-0.007	-0.002	0.576	18	18	14	7					0.101	0.083	0.042	Light	Light	Light
D	Runway	102	695	25	167	0.569	-0.018	-0.001	0.577	16	16	13	7	0.002	-0.011	0.001	-2	0.095	0.075	0.041	Light	Light	Light
A	Runway	103	1389	25	167	0.559	-0.01	0.006	0.568	17	17	14	8					0.097	0.077	0.043	Light	Light	Light
D	Runway	103	1389	25	167	0.561	-0.011	0.006	0.571	18	18	14	8	0.002	-0.001	0	1	0.101	0.080	0.043	Light	Light	Light
A	Runway	104	2064	25	167	0.561	-0.011	0.01	0.570	18	18	13	7					0.103	0.073	0.042	Light	Light	Light
D	Runway	104	2064	25	167	0.56	-0.016	0.01	0.569	17	17	13	7	-0.001	-0.005	0	-1	0.099	0.072	0.042	Light	Light	Light
A	Runway	105	2739	25	167	0.552	-0.009	0.001	0.562	18	18	14	8					0.100	0.077	0.043	Light	Light	Light
D	Runway	105	2739	25	167	0.546	-0.012	0.003	0.556	17	18	13	8	-0.006	-0.003	0.002	-1	0.098	0.074	0.042	Light	Light	Light
A	Runway	106	3300	25	167	0.555	0.001	0.003	0.564	18	19	13	8					0.105	0.074	0.044	Light	Light	Moderate
D	Runway	106	3300	25	167	0.564	-0.006	0.001	0.573	17	17	13	7	0.009	-0.007	-0.002	-1	0.098	0.074	0.042	Light	Light	Light
A	Runway	107	3875	25	167	0.569	-0.017	0	0.579	18	18	14	7					0.105	0.082	0.043	Light	Light	Light
D	Runway	107	3875	25	167	0.564	-0.022	0.003	0.573	17	17	13	7	-0.005	-0.005	0.003	-1	0.098	0.074	0.042	Light	Light	Light
A	Runway	108	4450	25	167	0.583	-0.01	0.006	0.592	18	18	14	7					0.106	0.081	0.043	Light	Light	Light
D	Runway	108	4450	25	167	0.584	-0.021	0.008	0.593	18	18	14	7	0.001	-0.011	0.002	0	0.104	0.085	0.041	Light	Light	Light
A	Runway	111	0	50	167	0.657	-0.007	0.012	0.662	15	15	12	7					0.099	0.081	0.043	Light	Light	Light
D	Runway	111	0	50	167	0.643	-0.003	0.017	0.649	16	16	12	7	-0.014	0.004	0.005	1	0.105	0.081	0.043	Light	Light	Light
A	Runway	112	695	50	167	0.626	-0.004	0.007	0.633	16	16	13	7					0.104	0.083	0.045	Light	Light	Moderate
D	Runway	112	695	50	167	0.641	-0.009	0.005	0.647	16	16	12	7	0.015	-0.005	-0.002	0	0.105	0.079	0.043	Light	Light	Light
A	Runway	113	1389	50	167	0.615	-0.006	0.011	0.622	17	17	13	7					0.105	0.080	0.045	Light	Light	Moderate
D	Runway	113	1389	50	167	0.615	-0.014	0.015	0.623	16	17	13	7	0	-0.008	0.004	-1	0.103	0.084	0.041	Light	Light	Light
A	Runway	114	2064	50	167	0.609	-0.009	0.01	0.616	18	18	13	7					0.112	0.078	0.045	Light	Light	Moderate
D	Runway	114	2064	50	167	0.619	-0.022	0.009	0.627	17	17	13	7	0.01	-0.013	-0.001	-1	0.105	0.081	0.043	Light	Light	Light

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	115	2739	50	167	0.618	-0.01	0.006	0.625	17	17	13	7					0.109	0.079	0.043	Light	Light	Light
D	Runway	115	2739	50	167	0.609	-0.009	0.008	0.616	16	17	12	7	-0.009	0.001	0.002	-1	0.102	0.075	0.043	Light	Light	Light
A	Runway	116	3300	50	167	0.621	-0.007	0.007	0.628	17	17	13	7					0.107	0.082	0.045	Light	Light	Moderate
D	Runway	116	3300	50	167	0.622	-0.009	0.012	0.628	16	16	12	7	0.001	-0.002	0.005	-1	0.100	0.077	0.042	Light	Light	Light
A	Runway	117	3875	50	167	0.616	-0.02	0.011	0.624	16	16	13	7					0.101	0.083	0.043	Light	Light	Light
D	Runway	117	3875	50	167	0.617	-0.023	0.013	0.625	16	16	13	7	0.001	-0.003	0.002	0	0.100	0.083	0.042	Light	Light	Light
A	Runway	118	4450	50	167	0.637	-0.02	0.013	0.644	17	17	13	7					0.108	0.086	0.043	Light	Light	Light
D	Runway	118	4450	50	167	0.639	-0.019	0.015	0.647	16	16	14	7	0.002	0.001	0.002	-1	0.103	0.087	0.043	Light	Light	Light
A	Runway	121	0	100	167	0.69	-0.008	0.01	0.693	15	15	11	7					0.101	0.079	0.047	Light	Light	Moderate
D	Runway	121	0	100	167	0.687	-0.01	0.013	0.690	15	15	11	7	-0.003	-0.002	0.003	0	0.104	0.078	0.045	Light	Light	Moderate
A	Runway	122	695	100	167	0.669	-0.006	0.007	0.673	15	15	12	7					0.103	0.082	0.046	Light	Light	Moderate
D	Runway	122	695	100	167	0.687	-0.009	0.011	0.690	15	15	12	7	0.018	-0.003	0.004	0	0.105	0.080	0.045	Light	Light	Moderate
A	Runway	123	1389	100	167	0.68	-0.011	0.009	0.684	16	16	12	7					0.109	0.082	0.049	Light	Light	Moderate
D	Runway	123	1389	100	167	0.677	-0.013	0.015	0.682	16	16	12	7	-0.003	-0.002	0.006	0	0.108	0.079	0.047	Light	Light	Moderate
A	Runway	124	2064	100	167	0.674	-0.011	0.01	0.678	16	16	12	7					0.108	0.082	0.048	Light	Light	Moderate
D	Runway	124	2064	100	167	0.675	-0.009	0.012	0.680	16	16	12	7	0.001	0.002	0.002	0	0.107	0.082	0.046	Light	Light	Moderate
A	Runway	125	2739	100	167	0.677	-0.01	0.01	0.681	16	16	13	7					0.107	0.087	0.046	Light	Light	Moderate
D	Runway	125	2739	100	167	0.676	-0.012	0.013	0.681	15	15	12	7	-0.001	-0.002	0.003	-1	0.104	0.083	0.046	Light	Light	Moderate
A	Runway	126	3300	100	167	0.678	-0.006	0.013	0.682	15	15	12	7					0.105	0.084	0.045	Light	Light	Moderate
D	Runway	126	3300	100	167	0.674	-0.012	0.017	0.679	15	15	12	7	-0.004	-0.006	0.004	0	0.104	0.085	0.045	Light	Light	Moderate
A	Runway	127	3875	100	167	0.678	-0.021	0.016	0.684	15	15	14	7					0.105	0.093	0.048	Light	Light	Moderate
D	Runway	127	3875	100	167	0.689	-0.026	0.014	0.694	15	15	13	7	0.011	-0.005	-0.002	0	0.106	0.089	0.046	Light	Light	Moderate
A	Runway	128	4450	100	167	0.679	-0.019	0.015	0.684	15	15	13	7					0.106	0.088	0.050	Light	Light	Moderate
D	Runway	128	4450	100	167	0.676	-0.015	0.02	0.682	15	15	14	7	-0.003	0.004	0.005	0	0.102	0.092	0.047	Light	Light	Moderate
A	Runway	131	0	150	167	0.731	-0.016	0.011	0.733	14	14	12	7					0.104	0.085	0.051	Light	Light	Moderate
D	Runway	131	0	150	167	0.721	-0.013	0.01	0.723	14	14	11	7	-0.01	0.003	-0.001	0	0.102	0.079	0.050	Light	Light	Moderate
A	Runway	132	695	150	167	0.725	-0.008	0.009	0.728	15	15	12	7					0.110	0.088	0.053	Light	Light	Moderate
D	Runway	132	695	150	167	0.707	-0.009	0.009	0.710	14	14	11	7	-0.018	-0.001	0	-1	0.102	0.080	0.050	Light	Light	Moderate
A	Runway	133	1389	150	167	0.711	-0.015	0.009	0.715	14	14	12	7					0.103	0.086	0.051	Light	Light	Moderate
D	Runway	133	1389	150	167	0.701	-0.007	0.016	0.705	14	14	12	7	-0.01	0.008	0.007	0	0.102	0.084	0.051	Light	Light	Moderate
A	Runway	134	2064	150	167	0.706	-0.02	0.008	0.710	15	15	12	7					0.104	0.085	0.049	Light	Light	Moderate
D	Runway	134	2064	150	167	0.706	-0.011	0.015	0.710	15	15	11	7	0	0.009	0.007	0	0.108	0.081	0.051	Light	Light	Moderate
A	Runway	135	2739	150	167	0.707	-0.003	0.011	0.710	15	15	12	7					0.106	0.087	0.052	Light	Light	Moderate
D	Runway	135	2739	150	167	0.707	-0.02	0.014	0.711	15	15	12	7	0	-0.017	0.003	0	0.104	0.082	0.049	Light	Light	Moderate
A	Runway	136	3300	150	167	0.695	-0.01	0.017	0.699	15	15	12	7					0.102	0.087	0.049	Light	Light	Moderate
D	Runway	136	3300	150	167	0.714	-0.022	0.017	0.718	15	15	12	7	0.019	-0.012	0	0	0.106	0.085	0.050	Light	Light	Moderate
A	Runway	137	3875	150	167	0.707	-0.025	0.014	0.711	15	15	12	7					0.106	0.089	0.053	Light	Light	Moderate
D	Runway	137	3875	150	167	0.694	-0.028	0.02	0.699	15	15	12	7	-0.013	-0.003	0.006	0	0.104	0.087	0.050	Light	Light	Moderate
A	Runway	138	4450	150	167	0.7	-0.016	0.016	0.706	15	15	13	8					0.108	0.092	0.054	Light	Light	Moderate
D	Runway	138	4450	150	167	0.698	-0.024	0.017	0.703	14	14	12	7	-0.002	-0.008	0.001	-1	0.099	0.088	0.051	Light	Light	Moderate
A	Runway	141	0	250	167	0.77	-0.01	0.005	0.771	13	13	11	8					0.103	0.085	0.059	Light	Light	Moderate
D	Runway	141	0	250	167	0.757	-0.008	0.005	0.758	13	13	11	8	-0.013	0.002	0	0	0.097	0.080	0.057	Light	Light	Moderate
A	Runway	142	695	250	167	0.744	-0.009	0.006	0.746	14	14	11	8					0.101	0.085	0.057	Light	Light	Moderate
D	Runway	142	695	250	167	0.752	-0.011	0.007	0.753	13	13	11	8	0.008	-0.002	0.001	-1	0.100	0.082	0.058	Light	Light	Moderate
A	Runway	143	1389	250	167	0.74	-0.012	0.013	0.742	14	15	11	8					0.108	0.081	0.058	Light	Light	Moderate
D	Runway	143	1389	250	167	0.749	-0.012	0.011	0.751	13	13	11	8	0.009	0	-0.002	-1	0.099	0.082	0.058	Light	Light	Moderate
A	Runway	144	2064	250	167	0.741	-0.016	0.007	0.744	14	14	11	8					0.102	0.085	0.060	Light	Light	Moderate
D	Runway	144	2064	250	167	0.744	-0.018	0.012	0.747	14	14	12	8	0.003	-0.002	0.005	0	0.107	0.086	0.058	Light	Light	Moderate
A	Runway	145	2739	250	167	0.737	-0.016	0.012	0.740	15	15	12	8					0.108	0.089	0.061	Light	Light	Moderate
D	Runway	145	2739	250	167	0.742	-0.021	0.014	0.745	14	14	12	8	0.005	-0.005	0.002	-1	0.107	0.089	0.058	Light	Light	Moderate
A	Runway	146	3300	250	167	0.743	-0.011	0.009	0.746	14	14	12	8					0.105	0.091	0.060	Light	Light	Moderate
D	Runway	146	3300	250	167	0.737	-0.016	0.016	0.740	14	14	11	8	-0.006	-0.005	0.007	0	0.102	0.083	0.059	Light	Light	Moderate
A	Runway	147	3875	250	167	0.737	-0.025	0.012	0.741	15	15	12	8					0.110	0.089	0.060	Light	Light	Moderate
D	Runway	147	3875	250	167	0.735	-0.019	0.015	0.739	14	14	12	8	-0.002	0.006	0.003	-1	0.102	0.091	0.060	Light	Light	Moderate
A	Runway	148	4450	250	167	0.727	-0.024	0.013	0.731	14	14	12	8					0.105	0.090	0.062	Light	Light	Moderate
D	Runway	148	4450	250	167	0.733	-0.02	0.011	0.737	14	14	12	8	0.006	0.004	-0.002	0	0.104	0.087	0.059	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	HPLZ1	201	0	25	167	0.573	-0.017	0.005	0.581	17	17	13	7					0.100	0.073	0.042	Light	Light	Light
D	HPLZ1	201	0	25	167	0.569	-0.014	0.007	0.578	18	18	13	7	-0.004	0.003	0.002	1	0.102	0.078	0.041	Light	Light	Light
A	HPLZ1	202	675	25	167	0.545	-0.009	0	0.555	18	18	13	8					0.099	0.072	0.045	Light	Light	Moderate
D	HPLZ1	202	675	25	167	0.545	-0.014	0.001	0.555	17	17	13	8	0	-0.005	0.001	-1	0.097	0.071	0.045	Light	Light	Moderate
A	HPLZ1	203	1350	25	167	0.454	-0.027	-0.024	0.475	22	23	18	12					0.108	0.085	0.059	Light	Light	Moderate
D	HPLZ1	203	1350	25	167	0.456	-0.024	-0.027	0.477	22	23	18	12	-0.002	0.003	-0.003	0	0.108	0.086	0.058	Light	Light	Moderate
A	HPLZ1	211	0	50	167	0.628	-0.016	0.006	0.634	17	16	13	7					0.104	0.083	0.043	Light	Light	Light
D	HPLZ1	211	0	50	167	0.609	-0.012	0.011	0.616	16	16	12	7	-0.019	0.004	0.005	-1	0.097	0.077	0.043	Light	Light	Light
A	HPLZ1	212	675	50	167	0.605	-0.011	-0.001	0.612	17	17	12	7					0.106	0.076	0.045	Light	Light	Moderate
D	HPLZ1	212	675	50	167	0.602	-0.011	0.005	0.609	17	17	12	7	-0.003	0	0.006	0	0.105	0.073	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	167	0.579	-0.017	-0.02	0.589	18	18	15	8					0.108	0.086	0.048	Light	Light	Moderate
D	HPLZ1	213	1350	50	167	0.6	-0.013	-0.021	0.610	17	17	14	8	0.021	0.004	-0.001	-1	0.106	0.086	0.047	Light	Light	Moderate
A	HPLZ1	221	0	100	167	0.678	-0.014	0.011	0.682	15	15	13	7					0.105	0.085	0.044	Light	Light	Moderate
D	HPLZ1	221	0	100	167	0.679	-0.011	0.012	0.683	15	15	12	7	0.001	0.003	0.001	0	0.101	0.081	0.046	Light	Light	Moderate
A	HPLZ1	222	675	100	167	0.675	-0.017	0.007	0.680	16	16	13	7					0.108	0.086	0.047	Light	Light	Moderate
D	HPLZ1	222	675	100	167	0.673	-0.021	0.009	0.678	15	15	12	7	-0.002	-0.004	0.002	-1	0.101	0.082	0.044	Light	Light	Moderate
A	HPLZ1	223	1350	100	167	0.664	-0.011	-0.002	0.668	16	16	12	7					0.107	0.080	0.047	Light	Light	Moderate
D	HPLZ1	223	1350	100	167	0.664	-0.019	0.001	0.669	16	16	12	7	0	-0.008	0.003	0	0.106	0.081	0.045	Light	Light	Moderate
A	HPLZ1	231	0	150	167	0.717	-0.016	0.011	0.720	14	14	12	7					0.098	0.086	0.052	Light	Light	Moderate
D	HPLZ1	231	0	150	167	0.71	-0.012	0.014	0.713	14	14	12	7	-0.007	0.004	0.003	0	0.100	0.082	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	167	0.705	-0.013	0.011	0.709	14	14	12	7					0.102	0.087	0.051	Light	Light	Moderate
D	HPLZ1	232	675	150	167	0.703	-0.017	0.012	0.707	14	14	12	7	-0.002	-0.004	0.001	0	0.102	0.081	0.051	Light	Light	Moderate
A	HPLZ1	233	1350	150	167	0.692	-0.02	0.008	0.697	15	15	12	7					0.106	0.086	0.052	Light	Light	Moderate
D	HPLZ1	233	1350	150	167	0.699	-0.021	0.008	0.703	15	15	12	7	0.007	-0.001	0	0	0.108	0.086	0.050	Light	Light	Moderate
A	HPLZ1	241	0	250	167	0.741	-0.012	0.01	0.744	14	14	12	8					0.101	0.088	0.059	Light	Light	Moderate
D	HPLZ1	241	0	250	167	0.744	-0.02	0.015	0.747	14	14	12	8	0.003	-0.008	0.005	0	0.102	0.088	0.060	Light	Light	Moderate
A	HPLZ1	242	675	250	167	0.734	-0.015	0.006	0.737	14	14	11	8					0.102	0.084	0.063	Light	Light	Moderate
D	HPLZ1	242	675	250	167	0.739	-0.016	0.009	0.742	14	14	12	8	0.005	-0.001	0.003	0	0.105	0.088	0.058	Light	Light	Moderate
A	HPLZ1	243	1350	250	167	0.728	-0.018	0.005	0.731	14	14	12	8					0.104	0.085	0.059	Light	Light	Moderate
D	HPLZ1	243	1350	250	167	0.731	-0.015	0.01	0.735	13	13	12	8	0.003	0.003	0.005	-1	0.099	0.090	0.060	Light	Light	Moderate
A	HPLZ2	301	0	25	167	0.571	-0.004	0.006	0.580	17	17	14	7					0.098	0.078	0.042	Light	Light	Light
D	HPLZ2	301	0	25	167	0.568	-0.002	0.008	0.576	17	17	13	7	-0.003	0.002	0.002	0	0.097	0.074	0.042	Light	Light	Light
A	HPLZ2	302	675	25	167	0.565	-0.005	-0.002	0.574	17	18	13	8					0.101	0.072	0.043	Light	Light	Light
D	HPLZ2	302	675	25	167	0.569	-0.014	-0.003	0.578	16	16	13	7	0.004	-0.009	-0.001	-1	0.094	0.074	0.042	Light	Light	Light
A	HPLZ2	303	1350	25	167	0.559	-0.001	0.01	0.568	17	17	12	7					0.096	0.071	0.042	Light	Light	Light
D	HPLZ2	303	1350	25	167	0.579	-0.008	0.006	0.588	17	17	13	7	0.02	-0.007	-0.004	0	0.101	0.076	0.041	Light	Light	Light
A	HPLZ2	311	0	50	167	0.629	-0.009	0.007	0.635	16	16	12	7					0.102	0.078	0.042	Light	Light	Light
D	HPLZ2	311	0	50	167	0.611	-0.002	0.014	0.618	16	16	13	7	-0.018	0.007	0.007	0	0.099	0.077	0.041	Light	Light	Light
A	HPLZ2	312	675	50	167	0.615	-0.016	0.004	0.622	17	17	12	7					0.103	0.076	0.042	Light	Light	Light
D	HPLZ2	312	675	50	167	0.628	-0.007	0.004	0.633	15	15	12	7	0.013	0.009	0	-2	0.095	0.074	0.042	Light	Light	Light
A	HPLZ2	313	1350	50	167	0.632	-0.009	0.014	0.638	16	16	13	7					0.103	0.085	0.042	Light	Light	Light
D	HPLZ2	313	1350	50	167	0.631	-0.015	0.013	0.637	15	15	13	6	-0.001	-0.006	-0.001	-1	0.098	0.084	0.041	Light	Light	Light
A	HPLZ2	321	0	100	167	0.676	-0.018	0.01	0.681	15	15	12	7					0.102	0.078	0.046	Light	Light	Moderate
D	HPLZ2	321	0	100	167	0.665	-0.008	0.02	0.669	16	16	11	7	-0.011	0.01	0.01	1	0.105	0.074	0.045	Light	Light	Moderate
A	HPLZ2	322	675	100	167	0.688	-0.017	0.006	0.692	14	14	12	7					0.100	0.087	0.046	Light	Light	Moderate
D	HPLZ2	322	675	100	167	0.67	-0.02	0.006	0.674	15	15	12	7	-0.018	-0.003	0	1	0.103	0.078	0.046	Light	Light	Moderate
A	HPLZ2	323	1350	100	167	0.676	-0.015	0.012	0.681	15	15	12	7					0.102	0.083	0.047	Light	Light	Moderate
D	HPLZ2	323	1350	100	167	0.679	-0.017	0.014	0.683	15	15	12	7	0.003	-0.002	0.002	0	0.104	0.082	0.047	Light	Light	Moderate
A	HPLZ2	331	0	150	167	0.702	-0.019	0.01	0.706	15	15	12	7					0.105	0.087	0.050	Light	Light	Moderate
D	HPLZ2	331	0	150	167	0.694	-0.014	0.017	0.698	15	15	12	7	-0.008	0.005	0.007	0	0.104	0.083	0.048	Light	Light	Moderate
A	HPLZ2	332	675	150	167	0.7	-0.012	0.007	0.703	14	14	11	7					0.097	0.080	0.049	Light	Light	Moderate
D	HPLZ2	332	675	150	167	0.705	-0.014	0.008	0.709	14	14	12	8	0.005	-0.002	0.001	0	0.102	0.086	0.054	Light	Light	Moderate
A	HPLZ2	333	1350	150	167	0.707	-0.018	0.013	0.711	15	15	12	7					0.105	0.085	0.051	Light	Light	Moderate
D	HPLZ2	333	1350	150	167	0.699	-0.016	0.011	0.703	14	14	12	7	-0.008	0.002	-0.002	-1	0.102	0.084	0.049	Light	Light	Moderate
A	HPLZ2	341	0	250	167	0.732	-0.009	0.008	0.734	14	14	11	8					0.100	0.080	0.059	Light	Light	Moderate
D	HPLZ2	341	0	250	167	0.73	-0.012	0.016	0.732	14	14	11	8	-0.002	-0.003	0.008	0	0.102	0.078	0.058	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
						(% UVW)				(% UVW)				(% UVW)									
A	SLZ2	533	1150	150	167	0.69	-0.021	0.014	0.696	15	15	13	7					0.106	0.092	0.052	Light	Light	Moderate
D	SLZ2	533	1150	150	167	0.692	-0.024	0.015	0.697	15	15	13	7	0.002	-0.003	0.001	0	0.107	0.088	0.052	Light	Light	Moderate
A	SLZ2	541	0	250	167	0.718	-0.022	0.016	0.722	14	14	12	8					0.103	0.089	0.059	Light	Light	Moderate
D	SLZ2	541	0	250	167	0.723	-0.021	0.017	0.727	14	14	12	8	0.005	0.001	0.001	0	0.102	0.085	0.060	Light	Light	Moderate
A	SLZ2	542	575	250	167	0.711	-0.019	0.01	0.715	14	14	12	8					0.100	0.087	0.060	Light	Light	Moderate
D	SLZ2	542	575	250	167	0.723	-0.02	0.012	0.727	14	14	12	8	0.012	-0.001	0.002	0	0.103	0.086	0.060	Light	Light	Moderate
A	SLZ2	543	1150	250	167	0.713	-0.023	0.01	0.718	15	15	13	8					0.105	0.091	0.061	Light	Light	Moderate
D	SLZ2	543	1150	250	167	0.724	-0.022	0.013	0.729	14	14	12	8	0.011	0.001	0.003	-1	0.105	0.090	0.061	Light	Light	Moderate
A	Runway	101	0	25	212	0.618	-0.006	0.008	0.624	17	17	11	7					0.105	0.071	0.043	Light	Light	Light
D	Runway	101	0	25	212	0.532	0.047	0.004	0.547	18	18	16	10	-0.086	0.053	-0.004	1	0.099	0.086	0.054	Light	Light	Moderate
A	Runway	102	695	25	212	0.605	-0.008	0	0.611	17	17	13	7					0.103	0.078	0.042	Light	Light	Light
D	Runway	102	695	25	212	0.562	0.052	-0.006	0.573	17	17	13	8	-0.043	0.06	-0.006	0	0.095	0.072	0.046	Light	Light	Moderate
A	Runway	103	1389	25	212	0.584	-0.008	0.005	0.592	17	17	13	7					0.099	0.077	0.042	Light	Light	Light
D	Runway	103	1389	25	212	0.58	0.008	-0.002	0.588	16	17	12	7	-0.004	0.016	-0.007	-1	0.097	0.071	0.042	Light	Light	Light
A	Runway	104	2064	25	212	0.561	0.001	0.01	0.570	19	19	13	8					0.108	0.075	0.043	Light	Light	Light
D	Runway	104	2064	25	212	0.531	0.009	0.004	0.543	19	20	15	9	-0.03	0.008	-0.006	0	0.107	0.079	0.049	Light	Light	Moderate
A	Runway	105	2739	25	212	0.514	-0.006	0.005	0.526	20	20	14	9					0.107	0.073	0.045	Light	Light	Moderate
D	Runway	105	2739	25	212	0.525	0	0.002	0.537	19	20	14	9	0.011	0.006	-0.003	-1	0.106	0.078	0.047	Light	Light	Moderate
A	Runway	106	3300	25	212	0.521	0.083	-0.007	0.539	21	21	13	10					0.112	0.068	0.053	Light	Light	Moderate
D	Runway	106	3300	25	212	0.519	0.091	-0.009	0.539	21	22	12	9	-0.002	0.008	-0.002	0	0.117	0.067	0.051	Light	Light	Moderate
A	Runway	107	3875	25	212	0.553	0.01	-0.007	0.563	19	19	13	8					0.106	0.073	0.046	Light	Light	Moderate
D	Runway	107	3875	25	212	0.556	0.005	-0.01	0.565	17	17	12	8	0.003	-0.005	-0.003	-2	0.095	0.070	0.046	Light	Light	Moderate
A	Runway	108	4450	25	212	0.563	-0.007	0.001	0.573	19	19	14	8					0.110	0.079	0.044	Light	Light	Moderate
D	Runway	108	4450	25	212	0.559	-0.009	0	0.569	18	18	14	8	-0.004	-0.002	-0.001	-1	0.102	0.077	0.045	Light	Light	Moderate
A	Runway	111	0	50	212	0.648	-0.001	0.01	0.652	15	15	11	7					0.100	0.073	0.043	Light	Light	Light
D	Runway	111	0	50	212	0.583	0.018	-0.001	0.593	19	19	13	9	-0.065	0.019	-0.011	-4	0.112	0.078	0.056	Light	Light	Moderate
A	Runway	112	695	50	212	0.636	-0.005	0.005	0.641	15	15	12	7					0.098	0.075	0.044	Light	Light	Moderate
D	Runway	112	695	50	212	0.619	0.035	-0.008	0.626	17	17	12	7	-0.017	0.04	-0.013	2	0.103	0.075	0.046	Light	Light	Moderate
A	Runway	113	1389	50	212	0.635	-0.008	0.01	0.641	16	16	13	7					0.103	0.083	0.044	Light	Light	Moderate
D	Runway	113	1389	50	212	0.641	0.011	-0.001	0.646	16	16	12	7	0.006	0.019	-0.011	0	0.106	0.075	0.043	Light	Light	Light
A	Runway	114	2064	50	212	0.611	-0.004	0.009	0.618	19	18	13	7					0.114	0.082	0.045	Light	Light	Moderate
D	Runway	114	2064	50	212	0.581	0.003	0.001	0.591	18	18	14	9	-0.03	0.007	-0.008	-1	0.108	0.081	0.051	Light	Light	Moderate
A	Runway	115	2739	50	212	0.595	-0.003	0.005	0.602	18	18	12	8					0.109	0.073	0.047	Light	Light	Moderate
D	Runway	115	2739	50	212	0.581	-0.002	0.007	0.590	18	18	12	8	-0.014	0.001	0.002	0	0.108	0.072	0.049	Light	Light	Moderate
A	Runway	116	3300	50	212	0.556	0.032	-0.028	0.570	22	23	13	10					0.134	0.075	0.059	Light	Light	Moderate
D	Runway	116	3300	50	212	0.544	0.03	-0.029	0.559	23	24	13	10	-0.012	-0.002	-0.001	1	0.136	0.075	0.058	Light	Light	Moderate
A	Runway	117	3875	50	212	0.603	-0.011	0	0.610	16	17	12	7					0.101	0.075	0.043	Light	Light	Light
D	Runway	117	3875	50	212	0.618	-0.013	0	0.626	17	17	13	7	0.015	-0.002	0	1	0.108	0.084	0.044	Light	Light	Moderate
A	Runway	118	4450	50	212	0.634	-0.019	0.006	0.641	17	17	13	7					0.108	0.085	0.043	Light	Light	Light
D	Runway	118	4450	50	212	0.625	-0.017	0.004	0.632	17	17	13	7	-0.009	0.002	-0.002	0	0.110	0.082	0.045	Light	Light	Moderate
A	Runway	121	0	100	212	0.699	-0.005	0.008	0.702	15	15	11	7					0.107	0.078	0.049	Light	Light	Moderate
D	Runway	121	0	100	212	0.674	0	-0.001	0.678	16	17	12	8	-0.025	0.005	-0.009	1	0.112	0.083	0.052	Light	Light	Moderate
A	Runway	122	695	100	212	0.698	-0.008	0.006	0.702	15	15	12	7					0.107	0.083	0.050	Light	Light	Moderate
D	Runway	122	695	100	212	0.68	0.009	-0.008	0.684	16	16	12	7	-0.018	0.017	-0.014	1	0.107	0.082	0.049	Light	Light	Moderate
A	Runway	123	1389	100	212	0.693	-0.009	0.01	0.697	15	15	13	7					0.105	0.088	0.048	Light	Light	Moderate
D	Runway	123	1389	100	212	0.693	-0.001	0	0.697	15	15	12	7	0	0.008	-0.01	0	0.105	0.085	0.046	Light	Light	Moderate
A	Runway	124	2064	100	212	0.66	-0.012	0.006	0.665	17	17	12	7					0.115	0.080	0.049	Light	Light	Moderate
D	Runway	124	2064	100	212	0.655	-0.011	0	0.660	16	16	12	7	-0.005	0.001	-0.006	-1	0.108	0.079	0.048	Light	Light	Moderate
A	Runway	125	2739	100	212	0.659	-0.004	0.007	0.664	17	17	12	7					0.113	0.077	0.046	Light	Light	Moderate
D	Runway	125	2739	100	212	0.661	-0.003	0.004	0.666	17	17	12	7	0.002	0.001	-0.003	0	0.113	0.077	0.048	Light	Light	Moderate
A	Runway	126	3300	100	212	0.625	-0.018	-0.023	0.633	18	18	14	8					0.114	0.085	0.048	Light	Light	Moderate
D	Runway	126	3300	100	212	0.645	-0.015	-0.025	0.653	17	17	13	7	0.02	0.003	-0.002	-1	0.113	0.087	0.048	Light	Light	Moderate
A	Runway	127	3875	100	212	0.661	-0.014	0.005	0.666	15	15	12	7					0.101	0.077	0.048	Light	Light	Moderate
D	Runway	127	3875	100	212	0.681	-0.014	0.009	0.686	15	15	12	7	0.02	0	0.004	0	0.103	0.085	0.049	Light	Light	Moderate
A	Runway	128	4450	100	212	0.684	-0.02	0.009	0.689	15	15	12	7					0.102	0.086	0.048	Light	Light	Moderate
D	Runway	128	4450	100	212	0.663	-0.014	0.011	0.669	15	15	12	7	-0.021	0.006	0.002	0	0.099	0.083	0.048	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	U	V	W	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])													
A	Runway	131	0	150	212	0.734	-0.003	0.007	0.736	14	14	11	7					0.106	0.079	0.053	Light	Light	Moderate
D	Runway	131	0	150	212	0.716	-0.011	0.002	0.718	15	15	11	7	-0.018	-0.008	-0.005	1	0.106	0.081	0.053	Light	Light	Moderate
A	Runway	132	695	150	212	0.725	-0.001	0.007	0.728	15	15	12	7					0.110	0.085	0.054	Light	Light	Moderate
D	Runway	132	695	150	212	0.719	-0.003	-0.007	0.722	15	15	12	7	-0.006	-0.002	-0.014	0	0.106	0.084	0.051	Light	Light	Moderate
A	Runway	133	1389	150	212	0.722	-0.008	0.008	0.725	15	15	12	7					0.107	0.085	0.052	Light	Light	Moderate
D	Runway	133	1389	150	212	0.727	-0.001	0	0.730	15	15	12	7	0.005	0.007	-0.008	0	0.107	0.088	0.049	Light	Light	Moderate
A	Runway	134	2064	150	212	0.701	-0.012	0.008	0.705	16	16	12	7					0.114	0.084	0.050	Light	Light	Moderate
D	Runway	134	2064	150	212	0.715	-0.006	0.001	0.718	15	15	12	7	0.014	0.006	-0.007	-1	0.104	0.083	0.051	Light	Light	Moderate
A	Runway	135	2739	150	212	0.688	-0.005	0.012	0.693	15	15	13	7					0.107	0.088	0.048	Light	Light	Moderate
D	Runway	135	2739	150	212	0.699	-0.015	0.011	0.703	15	15	12	7	0.011	-0.01	-0.001	0	0.108	0.085	0.051	Light	Light	Moderate
A	Runway	136	3300	150	212	0.688	-0.029	-0.005	0.693	15	15	13	7					0.101	0.089	0.049	Light	Light	Moderate
D	Runway	136	3300	150	212	0.695	-0.023	-0.011	0.699	15	15	12	7	0.007	0.006	-0.006	0	0.105	0.086	0.051	Light	Light	Moderate
A	Runway	137	3875	150	212	0.688	-0.018	0.006	0.693	14	14	12	7					0.097	0.085	0.051	Light	Light	Moderate
D	Runway	137	3875	150	212	0.701	-0.019	0.009	0.706	14	14	13	8	0.013	-0.001	0.003	0	0.101	0.091	0.054	Light	Light	Moderate
A	Runway	138	4450	150	212	0.697	-0.018	0.013	0.702	15	15	13	7					0.106	0.088	0.053	Light	Light	Moderate
D	Runway	138	4450	150	212	0.696	-0.015	0.01	0.701	15	15	12	8	-0.001	0.003	-0.003	0	0.105	0.088	0.054	Light	Light	Moderate
A	Runway	141	0	250	212	0.762	0	0.007	0.763	14	14	11	8					0.104	0.085	0.060	Light	Light	Moderate
D	Runway	141	0	250	212	0.768	-0.01	0	0.769	13	13	11	7	0.006	-0.01	-0.007	-1	0.103	0.082	0.056	Light	Light	Moderate
A	Runway	142	695	250	212	0.765	-0.012	0.007	0.766	13	13	11	8					0.103	0.088	0.060	Light	Light	Moderate
D	Runway	142	695	250	212	0.749	-0.004	-0.004	0.750	14	14	10	8	-0.016	0.008	-0.011	1	0.102	0.079	0.057	Light	Light	Moderate
A	Runway	143	1389	250	212	0.752	-0.011	0.007	0.755	14	14	12	8					0.107	0.091	0.059	Light	Light	Moderate
D	Runway	143	1389	250	212	0.766	-0.004	-0.006	0.767	13	13	11	8	0.014	0.007	-0.013	-1	0.100	0.082	0.058	Light	Light	Moderate
A	Runway	144	2064	250	212	0.741	-0.013	0.006	0.743	14	14	11	8					0.103	0.085	0.057	Light	Light	Moderate
D	Runway	144	2064	250	212	0.745	-0.01	0.001	0.748	14	14	12	8	0.004	0.003	-0.005	0	0.106	0.090	0.062	Light	Light	Moderate
A	Runway	145	2739	250	212	0.749	-0.017	0.004	0.751	14	14	11	8					0.105	0.084	0.060	Light	Light	Moderate
D	Runway	145	2739	250	212	0.745	-0.012	0.005	0.747	14	14	12	8	-0.004	0.005	0.001	0	0.106	0.086	0.059	Light	Light	Moderate
A	Runway	146	3300	250	212	0.721	-0.027	0.001	0.725	15	15	11	8					0.111	0.081	0.061	Light	Light	Moderate
D	Runway	146	3300	250	212	0.732	-0.03	0.002	0.736	14	14	12	8	0.011	-0.003	0.001	-1	0.100	0.090	0.060	Light	Light	Moderate
A	Runway	147	3875	250	212	0.727	-0.015	0.008	0.731	15	15	12	8					0.110	0.089	0.061	Light	Light	Moderate
D	Runway	147	3875	250	212	0.728	-0.017	0.007	0.732	15	15	12	8	0.001	-0.002	-0.001	0	0.106	0.088	0.059	Light	Light	Moderate
A	Runway	148	4450	250	212	0.731	-0.021	0.006	0.734	14	14	12	8					0.104	0.089	0.060	Light	Light	Moderate
D	Runway	148	4450	250	212	0.741	-0.022	0.008	0.745	15	15	12	8	0.01	-0.001	0.002	1	0.110	0.092	0.063	Light	Light	Moderate
A	HPLZ1	201	0	25	212	0.574	-0.007	-0.007	0.583	17	17	13	8					0.100	0.075	0.044	Light	Light	Moderate
D	HPLZ1	201	0	25	212	0.568	-0.006	-0.01	0.577	19	19	13	8	-0.006	0.001	-0.003	2	0.109	0.077	0.043	Light	Light	Light
A	HPLZ1	202	675	25	212	0.552	-0.007	0	0.561	18	18	13	8					0.101	0.073	0.042	Light	Light	Moderate
D	HPLZ1	202	675	25	212	0.543	-0.012	-0.003	0.555	17	18	14	8	-0.009	-0.005	-0.003	-1	0.098	0.080	0.044	Light	Light	Moderate
A	HPLZ1	203	1350	25	212	0.495	0.033	0.014	0.514	21	21	19	10					0.109	0.095	0.051	Light	Light	Moderate
D	HPLZ1	203	1350	25	212	0.497	0.027	0.015	0.515	20	20	19	10	0.002	-0.006	0.001	-1	0.105	0.098	0.050	Light	Light	Moderate
A	HPLZ1	211	0	50	212	0.648	-0.011	0.002	0.654	17	17	13	7					0.109	0.082	0.046	Light	Light	Moderate
D	HPLZ1	211	0	50	212	0.614	-0.006	-0.005	0.621	18	18	13	7	-0.034	0.005	-0.007	1	0.111	0.081	0.045	Light	Light	Moderate
A	HPLZ1	212	675	50	212	0.598	-0.004	0.001	0.606	18	18	13	8					0.106	0.078	0.046	Light	Light	Moderate
D	HPLZ1	212	675	50	212	0.596	-0.004	0.002	0.604	18	18	14	8	-0.002	0	0.001	0	0.110	0.084	0.048	Light	Light	Moderate
A	HPLZ1	213	1350	50	212	0.533	0.003	0.017	0.549	21	21	17	11					0.115	0.096	0.059	Light	Light	Moderate
D	HPLZ1	213	1350	50	212	0.526	0.014	0.016	0.542	21	21	18	11	-0.007	0.011	-0.001	0	0.115	0.095	0.060	Light	Light	Moderate
A	HPLZ1	221	0	100	212	0.689	-0.011	0.003	0.693	15	15	13	7					0.101	0.088	0.049	Light	Light	Moderate
D	HPLZ1	221	0	100	212	0.671	-0.01	0.002	0.676	17	17	12	7	-0.018	0.001	-0.001	2	0.112	0.084	0.048	Light	Light	Moderate
A	HPLZ1	222	675	100	212	0.658	-0.012	0.002	0.663	17	17	12	7					0.114	0.082	0.049	Light	Light	Moderate
D	HPLZ1	222	675	100	212	0.649	-0.008	0	0.656	17	17	13	8	-0.009	0.004	-0.002	0	0.114	0.085	0.050	Light	Light	Moderate
A	HPLZ1	223	1350	100	212	0.606	-0.029	0.002	0.615	21	21	14	9					0.129	0.083	0.056	Light	Light	Moderate
D	HPLZ1	223	1350	100	212	0.61	-0.029	0.002	0.621	20	21	15	9	0.004	0	0	-1	0.128	0.091	0.058	Light	Light	Moderate
A	HPLZ1	231	0	150	212	0.71	-0.012	0.002	0.713	15	15	11	8					0.105	0.081	0.054	Light	Light	Moderate
D	HPLZ1	231	0	150	212	0.713	-0.005	0.005	0.717	15	15	12	7	0.003	0.007	0.003	0	0.108	0.087	0.053	Light	Light	Moderate
A	HPLZ1	232	675	150	212	0.706	-0.015	0.004	0.710	14	14	13	7					0.102	0.090	0.051	Light	Light	Moderate
D	HPLZ1	232	675	150	212	0.707	-0.005	-0.001	0.710	16	16	12	7	0.001	0.01	-0.005	2	0.111	0.085	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	212	0.682	-0.028	0.002	0.688	16	16	12	8					0.109	0.085	0.052	Light	Light	Moderate
D	HPLZ1	233	1350	150	212	0.683	-0.022	0.002	0.689	16	16	13	8	0.001	0.006	0	0	0.112	0.087	0.053	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	241	0	250	212	0.756	-0.014	0.005	0.758	13	14	11	8					0.103	0.087	0.061	Light	Light	Moderate
D	HPLZ1	241	0	250	212	0.749	-0.004	0.002	0.751	13	13	12	7	-0.007	0.01	-0.003	0	0.100	0.087	0.056	Light	Light	Moderate
A	HPLZ1	242	675	250	212	0.74	-0.012	0.001	0.741	14	14	11	8					0.100	0.079	0.057	Light	Light	Moderate
D	HPLZ1	242	675	250	212	0.757	-0.008	0.004	0.760	14	14	12	7	0.017	0.004	0.003	0	0.104	0.095	0.057	Light	Light	Moderate
A	HPLZ1	243	1350	250	212	0.736	-0.021	0.005	0.738	14	14	11	8					0.104	0.082	0.059	Light	Light	Moderate
D	HPLZ1	243	1350	250	212	0.714	-0.018	0.005	0.717	14	14	11	8	-0.022	0.003	0	0	0.100	0.080	0.058	Light	Light	Moderate
A	HPLZ2	301	0	25	212	0.585	-0.003	0.002	0.594	18	18	14	7					0.106	0.082	0.043	Light	Light	Light
D	HPLZ2	301	0	25	212	0.557	-0.018	0.004	0.567	19	19	14	8	-0.028	-0.015	0.002	1	0.105	0.082	0.044	Light	Light	Moderate
A	HPLZ2	302	675	25	212	0.546	-0.005	-0.004	0.557	19	19	14	8					0.107	0.080	0.046	Light	Light	Moderate
D	HPLZ2	302	675	25	212	0.521	0.009	-0.004	0.534	19	19	15	9	-0.025	0.014	0	0	0.103	0.083	0.047	Light	Light	Moderate
A	HPLZ2	303	1350	25	212	0.467	-0.001	0.003	0.490	21	22	20	14					0.106	0.100	0.067	Light	Light	Moderate
D	HPLZ2	303	1350	25	212	0.466	0.002	0.002	0.488	20	21	19	14	-0.001	0.003	-0.001	-1	0.102	0.095	0.066	Light	Light	Moderate
A	HPLZ2	311	0	50	212	0.627	-0.004	0.005	0.633	17	17	12	7					0.106	0.077	0.046	Light	Light	Moderate
D	HPLZ2	311	0	50	212	0.605	-0.01	0.011	0.614	18	18	14	8	-0.022	-0.006	0.006	1	0.111	0.087	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	212	0.591	-0.012	0.003	0.600	19	19	14	8					0.113	0.082	0.049	Light	Light	Moderate
D	HPLZ2	312	675	50	212	0.601	-0.012	0.002	0.610	18	18	14	8	0.01	0	-0.001	-1	0.108	0.085	0.047	Light	Light	Moderate
A	HPLZ2	313	1350	50	212	0.542	0.004	-0.017	0.557	20	21	16	11					0.117	0.091	0.061	Light	Light	Moderate
D	HPLZ2	313	1350	50	212	0.538	0.01	-0.021	0.554	21	22	16	11	-0.004	0.006	-0.004	1	0.122	0.090	0.059	Light	Light	Moderate
A	HPLZ2	321	0	100	212	0.683	-0.006	0.004	0.687	15	15	12	7					0.104	0.083	0.049	Light	Light	Moderate
D	HPLZ2	321	0	100	212	0.658	-0.011	0.012	0.664	17	17	13	8	-0.025	-0.005	0.008	2	0.110	0.088	0.050	Light	Light	Moderate
A	HPLZ2	322	675	100	212	0.64	-0.002	0.004	0.646	18	18	12	8					0.115	0.078	0.052	Light	Light	Moderate
D	HPLZ2	322	675	100	212	0.645	-0.011	0.005	0.652	17	18	13	8	0.005	-0.009	0.001	-1	0.115	0.087	0.051	Light	Light	Moderate
A	HPLZ2	323	1350	100	212	0.65	-0.003	-0.011	0.656	17	17	12	8					0.113	0.079	0.050	Light	Light	Moderate
D	HPLZ2	323	1350	100	212	0.651	-0.009	-0.01	0.657	17	17	13	8	0.001	-0.006	0.001	0	0.111	0.086	0.053	Light	Light	Moderate
A	HPLZ2	331	0	150	212	0.705	-0.009	0.003	0.709	15	15	12	8					0.106	0.088	0.054	Light	Light	Moderate
D	HPLZ2	331	0	150	212	0.724	-0.006	0.005	0.727	14	14	12	7	0.019	0.003	0.002	-1	0.104	0.085	0.053	Light	Light	Moderate
A	HPLZ2	332	675	150	212	0.685	-0.015	0.005	0.690	16	16	12	8					0.107	0.083	0.053	Light	Light	Moderate
D	HPLZ2	332	675	150	212	0.695	-0.012	0.004	0.699	16	16	12	8	0.01	0.003	-0.001	0	0.113	0.081	0.054	Light	Light	Moderate
A	HPLZ2	333	1350	150	212	0.692	-0.013	-0.007	0.696	15	15	13	7					0.106	0.091	0.050	Light	Light	Moderate
D	HPLZ2	333	1350	150	212	0.694	-0.008	-0.008	0.699	14	14	12	7	0.002	0.005	-0.001	-1	0.100	0.084	0.052	Light	Light	Moderate
A	HPLZ2	341	0	250	212	0.746	-0.009	0.002	0.748	13	13	11	8					0.101	0.084	0.058	Light	Light	Moderate
D	HPLZ2	341	0	250	212	0.747	-0.005	0.007	0.749	13	13	12	8	0.001	0.004	0.005	0	0.098	0.087	0.058	Light	Light	Moderate
A	HPLZ2	342	675	250	212	0.739	-0.015	0.004	0.741	14	14	11	8					0.103	0.083	0.060	Light	Light	Moderate
D	HPLZ2	342	675	250	212	0.739	-0.016	0.002	0.742	15	14	12	8	0	-0.001	-0.002	1	0.107	0.086	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	212	0.733	-0.017	-0.003	0.736	14	14	12	8					0.104	0.090	0.057	Light	Light	Moderate
D	HPLZ2	343	1350	250	212	0.733	-0.016	-0.001	0.737	14	14	12	8	0	0.001	0.002	0	0.101	0.091	0.056	Light	Light	Moderate
A	SLZ1	401	0	25	212	0.56	-0.017	0.006	0.569	19	19	13	8					0.109	0.075	0.044	Light	Light	Moderate
D	SLZ1	401	0	25	212	0.568	-0.017	0.006	0.577	19	20	12	8	0.008	0	0	0	0.113	0.071	0.045	Light	Light	Moderate
A	SLZ1	402	575	25	212	0.551	-0.004	0.005	0.562	19	19	14	8					0.107	0.081	0.046	Light	Light	Moderate
D	SLZ1	402	575	25	212	0.542	0.002	0.005	0.553	19	19	14	8	-0.009	0.006	0	0	0.104	0.080	0.046	Light	Light	Moderate
A	SLZ1	403	1150	25	212	0.583	-0.004	-0.001	0.591	17	18	13	7					0.104	0.078	0.044	Light	Light	Moderate
D	SLZ1	403	1150	25	212	0.586	-0.008	0.001	0.593	18	18	12	7	0.003	-0.004	0.002	1	0.108	0.071	0.042	Light	Light	Light
A	SLZ1	411	0	50	212	0.612	-0.013	0.006	0.619	17	17	13	7					0.106	0.078	0.045	Light	Light	Moderate
D	SLZ1	411	0	50	212	0.623	-0.011	0.003	0.630	18	18	13	7	0.011	0.002	-0.003	1	0.114	0.080	0.045	Light	Light	Moderate
A	SLZ1	412	575	50	212	0.604	-0.011	0.005	0.612	18	18	13	7					0.110	0.077	0.044	Light	Light	Moderate
D	SLZ1	412	575	50	212	0.595	-0.009	0.006	0.603	18	18	13	8	-0.009	0.002	0.001	0	0.111	0.078	0.046	Light	Light	Moderate
A	SLZ1	413	1150	50	212	0.63	-0.008	0.003	0.636	17	17	12	7					0.106	0.078	0.043	Light	Light	Light
D	SLZ1	413	1150	50	212	0.637	-0.01	0.006	0.643	17	17	13	7	0.007	-0.002	0.003	0	0.107	0.081	0.044	Light	Light	Moderate
A	SLZ1	421	0	100	212	0.656	-0.009	0.005	0.661	16	16	12	7					0.106	0.079	0.046	Light	Light	Moderate
D	SLZ1	421	0	100	212	0.664	-0.009	0.005	0.668	15	15	12	7	0.008	0	0	-1	0.102	0.077	0.045	Light	Light	Moderate
A	SLZ1	422	575	100	212	0.657	-0.015	0.01	0.663	16	15	13	7					0.103	0.083	0.047	Light	Light	Moderate
D	SLZ1	422	575	100	212	0.669	-0.018	0.006	0.674	15	15	13	7	0.012	-0.003	-0.004	-1	0.103	0.088	0.047	Light	Light	Moderate
A	SLZ1	423	1150	100	212	0.686	-0.013	0.006	0.690	15	15	12	7					0.106	0.085	0.048	Light	Light	Moderate
D	SLZ1	423	1150	100	212	0.676	-0.019	0.007	0.681	16	16	12	7	-0.01	-0.006	0.001	1	0.107	0.084	0.048	Light	Light	Moderate
A	SLZ1	431	0	150	212	0.691	-0.016	0.007	0.695	14	14	12	7					0.095	0.084	0.050	Light	Light	Moderate
D	SLZ1	431	0	150	212	0.691	-0.006	0.004	0.694	14	14	12	7	0	0.01	-0.003	0	0.095	0.083	0.051	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	SLZ1	432	575	150	212	0.697	-0.015	0.008	0.701	14	14	12	7					0.101	0.086	0.052	Light	Light	Moderate
D	SLZ1	432	575	150	212	0.687	-0.022	0.011	0.692	15	15	12	8	-0.01	-0.007	0.003	1	0.106	0.085	0.054	Light	Light	Moderate
A	SLZ1	433	1150	150	212	0.706	-0.019	0.006	0.710	16	16	12	8					0.114	0.083	0.058	Light	Light	Moderate
D	SLZ1	433	1150	150	212	0.704	-0.019	0.008	0.708	15	15	12	8	-0.002	0	0.002	-1	0.106	0.086	0.053	Light	Light	Moderate
A	SLZ1	441	0	250	212	0.725	-0.018	0.007	0.728	14	14	11	8					0.099	0.083	0.061	Light	Light	Moderate
D	SLZ1	441	0	250	212	0.73	-0.017	0.002	0.733	14	14	12	8	0.005	0.001	-0.005	0	0.103	0.085	0.057	Light	Light	Moderate
A	SLZ1	442	575	250	212	0.717	-0.017	0.006	0.720	14	14	11	8					0.101	0.081	0.059	Light	Light	Moderate
D	SLZ1	442	575	250	212	0.733	-0.021	0.003	0.736	14	14	11	8	0.016	-0.004	-0.003	0	0.105	0.082	0.060	Light	Light	Moderate
A	SLZ1	443	1150	250	212	0.741	-0.017	0.006	0.745	15	15	12	8					0.108	0.089	0.062	Light	Light	Moderate
D	SLZ1	443	1150	250	212	0.728	-0.025	0.004	0.732	15	15	11	8	-0.013	-0.008	-0.002	0	0.108	0.083	0.061	Light	Light	Moderate
A	SLZ2	501	0	25	212	0.555	-0.012	0.005	0.566	18	18	15	8					0.100	0.086	0.045	Light	Light	Moderate
D	SLZ2	501	0	25	212	0.56	-0.006	0.003	0.570	18	18	14	8	0.005	0.006	-0.002	0	0.101	0.077	0.046	Light	Light	Moderate
A	SLZ2	502	575	25	212	0.575	-0.007	0.002	0.583	17	17	13	7					0.097	0.076	0.042	Light	Light	Light
D	SLZ2	502	575	25	212	0.576	-0.009	-0.001	0.585	17	17	13	8	0.001	-0.002	-0.003	0	0.102	0.074	0.044	Light	Light	Moderate
A	SLZ2	503	1150	25	212	0.6	-0.011	0.001	0.607	17	17	13	7					0.105	0.077	0.044	Light	Light	Moderate
D	SLZ2	503	1150	25	212	0.6	-0.016	0.002	0.607	17	16	12	7	0	-0.005	0.001	0	0.100	0.075	0.043	Light	Light	Light
A	SLZ2	511	0	50	212	0.605	-0.01	0.007	0.612	17	17	12	8					0.103	0.076	0.046	Light	Light	Moderate
D	SLZ2	511	0	50	212	0.606	-0.008	0.007	0.613	16	17	13	7	0.001	0.002	0	-1	0.101	0.081	0.045	Light	Light	Moderate
A	SLZ2	512	575	50	212	0.631	-0.007	0.003	0.637	16	16	13	7					0.103	0.081	0.047	Light	Light	Moderate
D	SLZ2	512	575	50	212	0.624	-0.004	0.004	0.630	17	17	12	7	-0.007	0.003	0.001	1	0.106	0.079	0.044	Light	Light	Moderate
A	SLZ2	513	1150	50	212	0.652	-0.009	0.004	0.658	16	16	13	7					0.108	0.084	0.046	Light	Light	Moderate
D	SLZ2	513	1150	50	212	0.646	-0.012	0.006	0.652	16	16	12	7	-0.006	-0.003	0.002	0	0.105	0.081	0.043	Light	Light	Light
A	SLZ2	521	0	100	212	0.672	-0.006	0.01	0.677	16	16	13	7					0.107	0.086	0.047	Light	Light	Moderate
D	SLZ2	521	0	100	212	0.662	-0.012	0.008	0.667	15	15	12	7	-0.01	-0.006	-0.002	-1	0.103	0.081	0.048	Light	Light	Moderate
A	SLZ2	522	575	100	212	0.68	-0.011	0.003	0.683	15	15	11	7					0.105	0.077	0.048	Light	Light	Moderate
D	SLZ2	522	575	100	212	0.679	-0.014	0.005	0.684	15	15	12	7	-0.001	-0.003	0.002	0	0.104	0.083	0.048	Light	Light	Moderate
A	SLZ2	523	1150	100	212	0.696	-0.016	0.01	0.701	15	15	13	7					0.106	0.090	0.049	Light	Light	Moderate
D	SLZ2	523	1150	100	212	0.686	-0.014	0.009	0.691	15	15	12	7	-0.01	0.002	-0.001	0	0.103	0.084	0.049	Light	Light	Moderate
A	SLZ2	531	0	150	212	0.695	-0.019	0.008	0.699	15	15	12	8					0.103	0.084	0.053	Light	Light	Moderate
D	SLZ2	531	0	150	212	0.696	-0.013	0.009	0.700	15	15	12	7	0.001	0.006	0.001	0	0.103	0.081	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	212	0.694	-0.015	0.002	0.698	16	16	12	7					0.109	0.083	0.052	Light	Light	Moderate
D	SLZ2	532	575	150	212	0.714	-0.018	0.008	0.718	15	15	12	7	0.02	-0.003	0.006	-1	0.106	0.086	0.052	Light	Light	Moderate
A	SLZ2	533	1150	150	212	0.703	-0.016	0.009	0.708	15	15	13	8					0.106	0.090	0.054	Light	Light	Moderate
D	SLZ2	533	1150	150	212	0.723	-0.018	0.007	0.727	14	14	12	8	0.02	-0.002	-0.002	-1	0.103	0.089	0.056	Light	Light	Moderate
A	SLZ2	541	0	250	212	0.724	-0.015	0.007	0.728	13	13	12	8					0.097	0.085	0.061	Light	Light	Moderate
D	SLZ2	541	0	250	212	0.736	-0.016	0.004	0.740	14	14	12	8	0.012	-0.001	-0.003	1	0.103	0.088	0.060	Light	Light	Moderate
A	SLZ2	542	575	250	212	0.729	-0.017	0.004	0.732	14	14	11	8					0.102	0.083	0.061	Light	Light	Moderate
D	SLZ2	542	575	250	212	0.742	-0.019	0.001	0.745	15	15	11	8	0.013	-0.002	-0.003	1	0.110	0.086	0.063	Light	Light	Moderate
A	SLZ2	543	1150	250	212	0.728	-0.016	0.007	0.731	14	14	11	9					0.102	0.084	0.063	Light	Light	Moderate
D	SLZ2	543	1150	250	212	0.738	-0.017	0.005	0.741	15	15	11	8	0.01	-0.001	-0.002	1	0.112	0.085	0.061	Light	Light	Moderate
A	Runway	101	0	25	234.5	0.592	-0.004	0.009	0.600	17	17	14	8					0.105	0.083	0.046	Light	Light	Moderate
D	Runway	101	0	25	234.5	0.532	0.002	0.018	0.547	22	23	17	9	-0.06	0.006	0.009	5	0.124	0.094	0.052	Light	Light	Moderate
A	Runway	102	695	25	234.5	0.578	-0.014	0.003	0.587	17	17	13	8					0.102	0.079	0.045	Light	Light	Moderate
D	Runway	102	695	25	234.5	0.459	0.069	-0.013	0.486	21	22	20	12	-0.119	0.083	-0.016	4	0.107	0.096	0.056	Light	Light	Moderate
A	Runway	103	1389	25	234.5	0.592	-0.004	0.004	0.600	17	17	13	7					0.105	0.080	0.043	Light	Light	Light
D	Runway	103	1389	25	234.5	0.509	0.051	0	0.525	20	20	16	9	-0.083	0.055	-0.004	3	0.105	0.086	0.049	Light	Light	Moderate
A	Runway	104	2064	25	234.5	0.571	-0.004	0.01	0.580	18	18	14	7					0.102	0.081	0.042	Light	Light	Light
D	Runway	104	2064	25	234.5	0.578	-0.01	-0.005	0.585	18	19	11	8	0.007	-0.006	-0.015	0	0.110	0.067	0.044	Light	Light	Moderate
A	Runway	105	2739	25	234.5	0.527	0.002	0.005	0.540	19	19	15	9					0.104	0.083	0.049	Light	Light	Moderate
D	Runway	105	2739	25	234.5	0.501	0.013	0.005	0.515	19	20	16	9	-0.026	0.011	0	0	0.101	0.081	0.049	Light	Light	Moderate
A	Runway	106	3300	25	234.5	0.302	0.011	0.001	0.370	26	37	34	25					0.135	0.127	0.094	Light	Light	Severe
D	Runway	106	3300	25	234.5	0.293	0.023	-0.003	0.365	27	39	35	25	-0.009	0.012	-0.004	1	0.142	0.127	0.092	Light	Light	Severe
A	Runway	107	3875	25	234.5	0.497	-0.004	-0.009	0.513	22	23	17	10					0.117	0.085	0.053	Light	Light	Moderate
D	Runway	107	3875	25	234.5	0.501	-0.007	-0.01	0.517	22	22	16	10	0.004	-0.003	-0.001	0	0.115	0.084	0.051	Light	Light	Moderate
A	Runway	108	4450	25	234.5	0.571	0	-0.006	0.580	18	19	13	8					0.107	0.073	0.045	Light	Light	Moderate
D	Runway	108	4450	25	234.5	0.578	-0.001	-0.007	0.586	19	19	13	7	0.007	-0.001	-0.001	1	0.110	0.074	0.044	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	111	0	50	234.5	0.629	-0.004	0.011	0.636	17	16	13	8					0.105	0.084	0.049	Light	Light	Moderate
D	Runway	111	0	50	234.5	0.582	-0.007	0.012	0.593	20	20	14	9	-0.047	-0.003	0.001	3	0.121	0.083	0.054	Light	Light	Moderate
A	Runway	112	695	50	234.5	0.61	-0.007	0.007	0.618	17	17	13	8					0.107	0.081	0.047	Light	Light	Moderate
D	Runway	112	695	50	234.5	0.531	0.039	-0.017	0.547	21	21	16	10	-0.079	0.046	-0.024	4	0.116	0.088	0.056	Light	Light	Moderate
A	Runway	113	1389	50	234.5	0.629	-0.004	0.009	0.635	17	17	13	7					0.106	0.082	0.044	Light	Light	Moderate
D	Runway	113	1389	50	234.5	0.569	0.029	-0.006	0.581	19	19	14	9	-0.06	0.033	-0.015	2	0.111	0.083	0.054	Light	Light	Moderate
A	Runway	114	2064	50	234.5	0.629	-0.007	0.01	0.635	17	17	12	7					0.106	0.079	0.044	Light	Light	Moderate
D	Runway	114	2064	50	234.5	0.62	-0.011	-0.002	0.626	17	18	11	7	-0.009	-0.004	-0.012	0	0.110	0.072	0.044	Light	Light	Moderate
A	Runway	115	2739	50	234.5	0.57	-0.002	0.002	0.581	19	19	15	9					0.111	0.087	0.052	Light	Light	Moderate
D	Runway	115	2739	50	234.5	0.561	0	0.005	0.571	18	19	14	9	-0.009	0.002	0.003	-1	0.106	0.081	0.050	Light	Light	Moderate
A	Runway	116	3300	50	234.5	0.402	-0.001	-0.016	0.444	29	34	24	19					0.152	0.108	0.084	Light	Light	Severe
D	Runway	116	3300	50	234.5	0.419	-0.003	-0.023	0.458	29	35	23	17	0.017	-0.002	-0.007	0	0.159	0.107	0.079	Light	Light	Severe
A	Runway	117	3875	50	234.5	0.589	0.008	-0.004	0.597	19	19	13	8					0.112	0.075	0.046	Light	Light	Moderate
D	Runway	117	3875	50	234.5	0.601	0.009	-0.004	0.608	17	17	12	7	0.012	0.001	0	-2	0.105	0.074	0.044	Light	Light	Moderate
A	Runway	118	4450	50	234.5	0.645	-0.012	0.002	0.651	16	16	13	7					0.104	0.083	0.044	Light	Light	Moderate
D	Runway	118	4450	50	234.5	0.628	-0.013	0.003	0.633	17	17	12	6	-0.017	-0.001	0.001	1	0.107	0.075	0.041	Light	Light	Light
A	Runway	121	0	100	234.5	0.677	-0.001	0.008	0.682	16	16	12	8					0.110	0.084	0.054	Light	Light	Moderate
D	Runway	121	0	100	234.5	0.645	-0.007	0.011	0.651	18	19	12	9	-0.032	-0.006	0.003	2	0.121	0.077	0.056	Light	Light	Moderate
A	Runway	122	695	100	234.5	0.674	0.002	0.005	0.678	16	16	12	8					0.110	0.083	0.052	Light	Light	Moderate
D	Runway	122	695	100	234.5	0.651	-0.001	-0.014	0.658	18	18	13	8	-0.023	-0.003	-0.019	2	0.120	0.085	0.052	Light	Light	Moderate
A	Runway	123	1389	100	234.5	0.678	-0.003	0.01	0.683	17	17	13	7					0.113	0.088	0.051	Light	Light	Moderate
D	Runway	123	1389	100	234.5	0.662	0.005	-0.007	0.668	17	17	13	8	-0.016	0.008	-0.017	0	0.116	0.084	0.050	Light	Light	Moderate
A	Runway	124	2064	100	234.5	0.674	-0.011	0.008	0.678	15	15	12	7					0.101	0.081	0.048	Light	Light	Moderate
D	Runway	124	2064	100	234.5	0.684	-0.004	-0.003	0.688	15	15	12	7	0.01	0.007	-0.011	0	0.106	0.082	0.047	Light	Light	Moderate
A	Runway	125	2739	100	234.5	0.656	-0.015	0.005	0.662	16	17	13	8					0.109	0.085	0.053	Light	Light	Moderate
D	Runway	125	2739	100	234.5	0.651	-0.011	0.002	0.657	18	17	13	8	-0.005	0.004	-0.003	2	0.115	0.087	0.049	Light	Light	Moderate
A	Runway	126	3300	100	234.5	0.606	-0.029	-0.012	0.616	20	21	13	9					0.126	0.082	0.053	Light	Light	Moderate
D	Runway	126	3300	100	234.5	0.603	-0.029	-0.013	0.612	21	21	13	8	-0.003	0	-0.001	1	0.130	0.077	0.052	Light	Light	Moderate
A	Runway	127	3875	100	234.5	0.66	0.002	0.002	0.664	15	15	12	7					0.099	0.080	0.047	Light	Light	Moderate
D	Runway	127	3875	100	234.5	0.672	0	0	0.676	14	14	11	7	0.012	-0.002	-0.002	-1	0.097	0.076	0.048	Light	Light	Moderate
A	Runway	128	4450	100	234.5	0.681	-0.019	0.011	0.686	15	15	13	7					0.100	0.087	0.050	Light	Light	Moderate
D	Runway	128	4450	100	234.5	0.685	-0.024	0.007	0.689	15	15	12	7	0.004	-0.005	-0.004	0	0.105	0.080	0.046	Light	Light	Moderate
A	Runway	131	0	150	234.5	0.707	-0.007	0.006	0.711	16	16	12	8					0.113	0.084	0.055	Light	Light	Moderate
D	Runway	131	0	150	234.5	0.695	-0.005	0.007	0.699	16	16	12	8	-0.012	0.002	0.001	0	0.115	0.081	0.055	Light	Light	Moderate
A	Runway	132	695	150	234.5	0.718	-0.004	0.007	0.721	15	15	12	8					0.110	0.083	0.054	Light	Light	Moderate
D	Runway	132	695	150	234.5	0.697	-0.003	-0.014	0.700	16	16	12	7	-0.021	0.001	-0.021	1	0.109	0.082	0.050	Light	Light	Moderate
A	Runway	133	1389	150	234.5	0.718	-0.015	0.007	0.722	16	16	12	7					0.112	0.088	0.054	Light	Light	Moderate
D	Runway	133	1389	150	234.5	0.707	-0.004	-0.008	0.710	16	16	12	7	-0.011	0.011	-0.015	0	0.111	0.084	0.052	Light	Light	Moderate
A	Runway	134	2064	150	234.5	0.708	-0.013	0.006	0.712	15	15	12	8					0.105	0.088	0.054	Light	Light	Moderate
D	Runway	134	2064	150	234.5	0.717	0.005	-0.001	0.720	15	15	11	7	0.009	0.018	-0.007	0	0.105	0.082	0.049	Light	Light	Moderate
A	Runway	135	2739	150	234.5	0.691	-0.025	0.008	0.696	16	16	12	7					0.108	0.086	0.051	Light	Light	Moderate
D	Runway	135	2739	150	234.5	0.7	-0.015	0.004	0.703	15	15	12	7	0.009	0.01	-0.004	-1	0.106	0.081	0.049	Light	Light	Moderate
A	Runway	136	3300	150	234.5	0.683	-0.024	0.002	0.688	16	16	12	8					0.108	0.083	0.053	Light	Light	Moderate
D	Runway	136	3300	150	234.5	0.678	-0.023	0.001	0.683	16	16	12	7	-0.005	0.001	-0.001	0	0.108	0.082	0.051	Light	Light	Moderate
A	Runway	137	3875	150	234.5	0.695	-0.008	-0.002	0.699	15	15	12	8					0.103	0.082	0.053	Light	Light	Moderate
D	Runway	137	3875	150	234.5	0.7	-0.009	0	0.704	15	15	12	7	0.005	-0.001	0.002	0	0.105	0.085	0.052	Light	Light	Moderate
A	Runway	138	4450	150	234.5	0.712	-0.012	0.005	0.715	15	15	12	7					0.106	0.083	0.053	Light	Light	Moderate
D	Runway	138	4450	150	234.5	0.713	-0.022	0.007	0.717	15	15	12	7	0.001	-0.01	0.002	0	0.109	0.083	0.052	Light	Light	Moderate
A	Runway	141	0	250	234.5	0.765	-0.004	0.005	0.767	14	14	11	8					0.105	0.087	0.062	Light	Light	Moderate
D	Runway	141	0	250	234.5	0.762	-0.01	0.008	0.763	14	14	11	8	-0.003	-0.006	0.003	0	0.105	0.085	0.058	Light	Light	Moderate
A	Runway	142	695	250	234.5	0.775	-0.005	0.006	0.776	15	15	11	8					0.113	0.086	0.061	Light	Light	Moderate
D	Runway	142	695	250	234.5	0.771	-0.01	-0.01	0.771	14	14	11	7	-0.004	-0.005	-0.016	-1	0.106	0.082	0.057	Light	Light	Moderate
A	Runway	143	1389	250	234.5	0.761	-0.007	0.006	0.764	14	14	12	8					0.108	0.091	0.061	Light	Light	Moderate
D	Runway	143	1389	250	234.5	0.763	-0.009	-0.01	0.765	14	14	12	8	0.002	-0.002	-0.016	0	0.109	0.090	0.059	Light	Light	Moderate
A	Runway	144	2064	250	234.5	0.747	-0.007	0.006	0.750	14	14	12	8					0.103	0.089	0.061	Light	Light	Moderate
D	Runway	144	2064	250	234.5	0.764	-0.001	-0.007	0.766	14	14	12	7	0.017	0.006	-0.013	0	0.106	0.090	0.057	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	145	2739	250	234.5	0.74	-0.018	0.005	0.744	14	14	12	8					0.105	0.090	0.061	Light	Light	Moderate
D	Runway	145	2739	250	234.5	0.726	-0.012	0.007	0.729	15	15	11	8	-0.014	0.006	0.002	1	0.110	0.082	0.060	Light	Light	Moderate
A	Runway	146	3300	250	234.5	0.727	-0.023	0.003	0.730	14	14	12	8					0.100	0.086	0.062	Light	Light	Moderate
D	Runway	146	3300	250	234.5	0.726	-0.02	0.004	0.729	14	14	12	8	-0.001	0.003	0.001	0	0.100	0.085	0.060	Light	Light	Moderate
A	Runway	147	3875	250	234.5	0.727	-0.01	-0.001	0.730	14	14	12	8					0.105	0.084	0.060	Light	Light	Moderate
D	Runway	147	3875	250	234.5	0.728	-0.014	0.001	0.731	15	15	11	8	0.001	-0.004	0.002	1	0.113	0.083	0.058	Light	Light	Moderate
A	Runway	148	4450	250	234.5	0.735	-0.011	0.006	0.738	14	14	12	8					0.105	0.087	0.061	Light	Light	Moderate
D	Runway	148	4450	250	234.5	0.734	-0.019	0.009	0.737	14	14	11	8	-0.001	-0.008	0.003	0	0.106	0.081	0.061	Light	Light	Moderate
A	HPLZ1	201	0	25	234.5	0.597	-0.005	-0.011	0.605	16	16	13	7					0.099	0.080	0.044	Light	Light	Moderate
D	HPLZ1	201	0	25	234.5	0.541	0.025	-0.011	0.552	17	17	14	8	-0.056	0.03	0	1	0.092	0.077	0.047	Light	Light	Moderate
A	HPLZ1	202	675	25	234.5	0.579	-0.009	-0.006	0.587	17	17	13	7					0.099	0.078	0.043	Light	Light	Light
D	HPLZ1	202	675	25	234.5	0.554	-0.024	-0.003	0.565	21	21	14	8	-0.025	-0.015	0.003	4	0.117	0.081	0.044	Light	Light	Moderate
A	HPLZ1	203	1350	25	234.5	0.537	-0.009	0.01	0.549	19	19	14	9					0.104	0.077	0.047	Light	Light	Moderate
D	HPLZ1	203	1350	25	234.5	0.524	-0.005	0.009	0.537	20	20	15	9	-0.013	0.004	-0.001	1	0.108	0.082	0.048	Light	Light	Moderate
A	HPLZ1	211	0	50	234.5	0.64	-0.003	-0.004	0.646	17	17	12	7					0.107	0.080	0.045	Light	Light	Moderate
D	HPLZ1	211	0	50	234.5	0.601	0.019	-0.009	0.609	17	17	13	8	-0.039	0.022	-0.005	0	0.105	0.079	0.048	Light	Light	Moderate
A	HPLZ1	212	675	50	234.5	0.632	-0.015	-0.001	0.638	16	16	12	7					0.104	0.078	0.044	Light	Light	Moderate
D	HPLZ1	212	675	50	234.5	0.611	-0.014	-0.001	0.619	19	19	14	8	-0.021	0.001	0	3	0.118	0.086	0.046	Light	Light	Moderate
A	HPLZ1	213	1350	50	234.5	0.58	-0.019	0.007	0.590	19	19	14	8					0.111	0.085	0.050	Light	Light	Moderate
D	HPLZ1	213	1350	50	234.5	0.58	-0.007	0.005	0.589	19	19	13	9	0	0.012	-0.002	0	0.111	0.077	0.051	Light	Light	Moderate
A	HPLZ1	221	0	100	234.5	0.691	-0.003	0.001	0.695	15	15	12	7					0.105	0.085	0.050	Light	Light	Moderate
D	HPLZ1	221	0	100	234.5	0.667	-0.002	-0.007	0.672	17	17	12	8	-0.024	0.001	-0.008	2	0.116	0.082	0.051	Light	Light	Moderate
A	HPLZ1	222	675	100	234.5	0.69	-0.01	0.002	0.695	16	16	13	7					0.112	0.087	0.048	Light	Light	Moderate
D	HPLZ1	222	675	100	234.5	0.675	-0.01	-0.001	0.680	15	15	12	7	-0.015	0	-0.003	-1	0.103	0.083	0.047	Light	Light	Moderate
A	HPLZ1	223	1350	100	234.5	0.643	-0.014	0.001	0.649	18	18	13	8					0.114	0.085	0.052	Light	Light	Moderate
D	HPLZ1	223	1350	100	234.5	0.652	-0.01	0.001	0.658	17	17	13	8	0.009	0.004	0	-1	0.113	0.087	0.050	Light	Light	Moderate
A	HPLZ1	231	0	150	234.5	0.719	-0.01	-0.001	0.722	15	15	12	7					0.111	0.088	0.053	Light	Light	Moderate
D	HPLZ1	231	0	150	234.5	0.71	-0.016	-0.006	0.713	15	15	12	7	-0.009	-0.006	-0.005	0	0.107	0.087	0.052	Light	Light	Moderate
A	HPLZ1	232	675	150	234.5	0.714	-0.01	0.004	0.719	15	15	13	8					0.106	0.093	0.054	Light	Light	Moderate
D	HPLZ1	232	675	150	234.5	0.705	0	0.002	0.709	15	15	12	7	-0.009	0.01	-0.002	0	0.105	0.082	0.051	Light	Light	Moderate
A	HPLZ1	233	1350	150	234.5	0.696	-0.01	0	0.701	16	16	13	8					0.111	0.088	0.053	Light	Light	Moderate
D	HPLZ1	233	1350	150	234.5	0.705	-0.013	0.003	0.708	15	15	12	7	0.009	-0.003	0.003	-1	0.109	0.085	0.050	Light	Light	Moderate
A	HPLZ1	241	0	250	234.5	0.757	-0.009	0.001	0.759	13	13	12	8					0.099	0.090	0.058	Light	Light	Moderate
D	HPLZ1	241	0	250	234.5	0.749	-0.009	0.001	0.751	15	14	12	8	-0.008	0	0	2	0.108	0.088	0.061	Light	Light	Moderate
A	HPLZ1	242	675	250	234.5	0.75	-0.01	0.002	0.751	14	14	11	8					0.102	0.084	0.059	Light	Light	Moderate
D	HPLZ1	242	675	250	234.5	0.751	-0.01	0	0.753	14	14	11	8	0.001	0	-0.002	0	0.107	0.084	0.059	Light	Light	Moderate
A	HPLZ1	243	1350	250	234.5	0.728	-0.013	0.003	0.732	15	15	12	8					0.107	0.091	0.059	Light	Light	Moderate
D	HPLZ1	243	1350	250	234.5	0.733	-0.015	0.004	0.736	14	14	11	8	0.005	-0.002	0.001	-1	0.104	0.084	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	234.5	0.597	-0.006	-0.003	0.604	17	17	13	7					0.102	0.078	0.044	Light	Light	Moderate
D	HPLZ2	301	0	25	234.5	0.588	0.003	0.001	0.596	17	17	13	7	-0.009	0.009	0.004	0	0.100	0.079	0.045	Light	Light	Moderate
A	HPLZ2	302	675	25	234.5	0.584	-0.007	-0.011	0.592	17	17	13	7					0.101	0.075	0.042	Light	Light	Light
D	HPLZ2	302	675	25	234.5	0.545	-0.009	-0.004	0.556	19	19	14	8	-0.039	-0.002	0.007	2	0.107	0.079	0.045	Light	Light	Moderate
A	HPLZ2	303	1350	25	234.5	0.503	-0.011	-0.001	0.519	20	21	17	10					0.107	0.086	0.052	Light	Light	Moderate
D	HPLZ2	303	1350	25	234.5	0.493	-0.003	-0.002	0.509	20	21	17	10	-0.01	0.008	-0.001	0	0.108	0.085	0.051	Light	Light	Moderate
A	HPLZ2	311	0	50	234.5	0.647	0	0.002	0.652	16	16	12	7					0.104	0.079	0.045	Light	Light	Moderate
D	HPLZ2	311	0	50	234.5	0.62	0.001	0.006	0.627	17	17	13	8	-0.027	0.001	0.004	1	0.104	0.080	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	234.5	0.633	-0.011	-0.002	0.638	16	16	12	7					0.104	0.077	0.044	Light	Light	Moderate
D	HPLZ2	312	675	50	234.5	0.603	-0.01	0	0.612	19	19	14	8	-0.03	0.001	0.002	3	0.116	0.085	0.047	Light	Light	Moderate
A	HPLZ2	313	1350	50	234.5	0.565	-0.016	-0.005	0.575	19	20	13	9					0.112	0.077	0.051	Light	Light	Moderate
D	HPLZ2	313	1350	50	234.5	0.553	-0.013	-0.003	0.564	20	20	14	9	-0.012	0.003	0.002	1	0.114	0.080	0.050	Light	Light	Moderate
A	HPLZ2	321	0	100	234.5	0.685	-0.01	0.005	0.689	16	16	12	7					0.107	0.084	0.049	Light	Light	Moderate
D	HPLZ2	321	0	100	234.5	0.674	-0.003	0.005	0.679	16	16	12	7	-0.011	0.007	0	0	0.107	0.081	0.051	Light	Light	Moderate
A	HPLZ2	322	675	100	234.5	0.696	-0.007	0.001	0.700	15	15	12	7					0.106	0.084	0.050	Light	Light	Moderate
D	HPLZ2	322	675	100	234.5	0.66	-0.005	0.002	0.665	17	17	12	8	-0.036	0.002	0.001	2	0.115	0.083	0.051	Light	Light	Moderate
A	HPLZ2	323	1350	100	234.5	0.633	-0.025	-0.001	0.640	17	18	12	8					0.113	0.076	0.051	Light	Light	Moderate
D	HPLZ2	323	1350	100	234.5	0.639	-0.02	-0.003	0.646	18	19	13	8	0.006	0.005	-0.002	1	0.120	0.084	0.050	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ2	331	0	150	234.5	0.726	-0.005	0.006	0.728	14	14	12	7					0.104	0.086	0.053	Light	Light	Moderate
D	HPLZ2	331	0	150	234.5	0.709	-0.005	0.005	0.712	15	15	12	7	-0.017	0	-0.001	1	0.106	0.089	0.049	Light	Light	Moderate
A	HPLZ2	332	675	150	234.5	0.713	-0.012	0.001	0.715	14	14	11	7					0.103	0.078	0.052	Light	Light	Moderate
D	HPLZ2	332	675	150	234.5	0.708	-0.007	0	0.711	15	15	12	7	-0.005	0.005	-0.001	1	0.109	0.084	0.053	Light	Light	Moderate
A	HPLZ2	333	1350	150	234.5	0.697	-0.019	-0.006	0.701	15	15	13	7					0.106	0.089	0.050	Light	Light	Moderate
D	HPLZ2	333	1350	150	234.5	0.693	-0.022	-0.003	0.697	16	16	12	7	-0.004	-0.003	0.003	1	0.108	0.083	0.051	Light	Light	Moderate
A	HPLZ2	341	0	250	234.5	0.748	-0.004	0.001	0.750	13	13	12	8					0.099	0.090	0.060	Light	Light	Moderate
D	HPLZ2	341	0	250	234.5	0.761	-0.016	0.002	0.764	14	14	12	8	0.013	-0.012	0.001	1	0.108	0.090	0.060	Light	Light	Moderate
A	HPLZ2	342	675	250	234.5	0.746	-0.009	0	0.748	14	14	12	8					0.102	0.086	0.059	Light	Light	Moderate
D	HPLZ2	342	675	250	234.5	0.753	-0.007	0	0.755	14	14	12	8	0.007	0.002	0	0	0.105	0.088	0.060	Light	Light	Moderate
A	HPLZ2	343	1350	250	234.5	0.733	-0.014	-0.002	0.736	15	15	12	8					0.108	0.086	0.058	Light	Light	Moderate
D	HPLZ2	343	1350	250	234.5	0.734	-0.019	-0.002	0.737	15	15	12	8	0.001	-0.005	0	0	0.109	0.086	0.058	Light	Light	Moderate
A	SLZ1	401	0	25	234.5	0.427	0.044	0.018	0.463	25	27	27	15					0.124	0.124	0.069	Light	Light	Moderate
D	SLZ1	401	0	25	234.5	0.442	0.054	0.017	0.477	25	26	26	13	0.015	0.01	-0.001	0	0.125	0.123	0.064	Light	Light	Moderate
A	SLZ1	402	575	25	234.5	0.535	0.009	0	0.547	20	20	14	9					0.111	0.079	0.047	Light	Light	Moderate
D	SLZ1	402	575	25	234.5	0.542	0	0.002	0.553	20	20	14	8	0.007	-0.009	0.002	0	0.110	0.079	0.047	Light	Light	Moderate
A	SLZ1	403	1150	25	234.5	0.562	-0.005	-0.002	0.571	18	18	13	8					0.105	0.075	0.046	Light	Light	Moderate
D	SLZ1	403	1150	25	234.5	0.592	0	-0.002	0.600	17	17	12	7	0.03	0.005	0	-1	0.102	0.075	0.043	Light	Light	Light
A	SLZ1	411	0	50	234.5	0.457	0.01	0.007	0.487	27	29	23	16					0.140	0.111	0.077	Light	Light	Severe
D	SLZ1	411	0	50	234.5	0.453	0.016	0.001	0.483	27	29	23	15	-0.004	0.006	-0.006	0	0.142	0.110	0.072	Light	Light	Moderate
A	SLZ1	412	575	50	234.5	0.616	-0.008	-0.002	0.623	17	17	13	7					0.107	0.080	0.046	Light	Light	Moderate
D	SLZ1	412	575	50	234.5	0.613	-0.008	0.003	0.619	18	18	13	7	-0.003	0	0.005	1	0.113	0.078	0.044	Light	Light	Moderate
A	SLZ1	413	1150	50	234.5	0.632	-0.011	-0.001	0.637	17	17	12	7					0.105	0.078	0.043	Light	Light	Light
D	SLZ1	413	1150	50	234.5	0.644	-0.01	0.001	0.649	17	17	12	7	0.012	0.001	0.002	0	0.113	0.076	0.043	Light	Light	Light
A	SLZ1	421	0	100	234.5	0.572	-0.021	-0.007	0.586	22	23	16	10					0.134	0.091	0.060	Light	Light	Moderate
D	SLZ1	421	0	100	234.5	0.596	-0.029	-0.01	0.609	22	22	15	10	0.024	-0.008	-0.003	0	0.135	0.093	0.059	Light	Light	Moderate
A	SLZ1	422	575	100	234.5	0.658	-0.003	0.006	0.663	16	16	12	7					0.104	0.079	0.047	Light	Light	Moderate
D	SLZ1	422	575	100	234.5	0.686	-0.003	0.006	0.690	14	14	12	7	0.028	0	0	-2	0.097	0.081	0.049	Light	Light	Moderate
A	SLZ1	423	1150	100	234.5	0.69	-0.01	0.003	0.694	15	15	12	7					0.101	0.083	0.050	Light	Light	Moderate
D	SLZ1	423	1150	100	234.5	0.687	-0.02	0.005	0.690	16	16	11	7	-0.003	-0.01	0.002	1	0.108	0.078	0.048	Light	Light	Moderate
A	SLZ1	431	0	150	234.5	0.672	-0.027	-0.001	0.678	17	17	13	8					0.112	0.089	0.053	Light	Light	Moderate
D	SLZ1	431	0	150	234.5	0.678	-0.024	-0.001	0.683	16	16	12	7	0.006	0.003	0	-1	0.107	0.082	0.051	Light	Light	Moderate
A	SLZ1	432	575	150	234.5	0.704	-0.007	0.005	0.708	15	15	12	7					0.109	0.085	0.052	Light	Light	Moderate
D	SLZ1	432	575	150	234.5	0.693	-0.012	0.007	0.697	15	15	12	7	-0.011	-0.005	0.002	0	0.104	0.082	0.051	Light	Light	Moderate
A	SLZ1	433	1150	150	234.5	0.711	-0.019	0.002	0.715	14	14	12	7					0.104	0.084	0.053	Light	Light	Moderate
D	SLZ1	433	1150	150	234.5	0.709	-0.014	0.007	0.712	15	15	12	7	-0.002	0.005	0.005	1	0.104	0.083	0.050	Light	Light	Moderate
A	SLZ1	441	0	250	234.5	0.712	-0.02	0.002	0.716	15	15	12	8					0.104	0.086	0.059	Light	Light	Moderate
D	SLZ1	441	0	250	234.5	0.728	-0.019	0.001	0.731	14	14	12	8	0.016	0.001	-0.001	-1	0.104	0.086	0.057	Light	Light	Moderate
A	SLZ1	442	575	250	234.5	0.741	-0.018	-0.002	0.744	14	14	11	9					0.106	0.083	0.063	Light	Light	Moderate
D	SLZ1	442	575	250	234.5	0.741	-0.01	0.002	0.743	14	14	11	8	0	0.008	0.004	0	0.107	0.081	0.061	Light	Light	Moderate
A	SLZ1	443	1150	250	234.5	0.732	-0.02	0.004	0.736	14	14	12	8					0.106	0.087	0.062	Light	Light	Moderate
D	SLZ1	443	1150	250	234.5	0.729	-0.014	0.006	0.732	14	14	11	8	-0.003	0.006	0.002	0	0.102	0.082	0.062	Light	Light	Moderate
A	SLZ2	501	0	25	234.5	0.57	0.022	0.003	0.578	19	19	12	8					0.112	0.069	0.048	Light	Light	Moderate
D	SLZ2	501	0	25	234.5	0.576	0.021	-0.001	0.584	19	20	12	8	0.006	-0.001	-0.004	0	0.114	0.069	0.046	Light	Light	Moderate
A	SLZ2	502	575	25	234.5	0.579	0	-0.003	0.586	18	18	12	8					0.105	0.070	0.044	Light	Light	Moderate
D	SLZ2	502	575	25	234.5	0.573	-0.003	0.002	0.581	18	18	12	8	-0.006	-0.003	0.005	0	0.104	0.069	0.044	Light	Light	Moderate
A	SLZ2	503	1150	25	234.5	0.593	-0.003	-0.002	0.601	19	19	13	7					0.111	0.081	0.045	Light	Light	Moderate
D	SLZ2	503	1150	25	234.5	0.588	0.001	0.002	0.596	17	17	13	7	-0.005	0.004	0.004	-2	0.103	0.078	0.043	Light	Light	Light
A	SLZ2	511	0	50	234.5	0.6	0.014	-0.001	0.608	19	19	12	9					0.114	0.071	0.055	Light	Light	Moderate
D	SLZ2	511	0	50	234.5	0.611	0.015	-0.005	0.619	19	19	12	8	0.011	0.001	-0.004	0	0.118	0.073	0.050	Light	Light	Moderate
A	SLZ2	512	575	50	234.5	0.637	-0.002	0.001	0.642	16	16	12	7					0.105	0.077	0.045	Light	Light	Moderate
D	SLZ2	512	575	50	234.5	0.628	-0.013	0	0.633	17	17	12	7	-0.009	-0.011	-0.001	1	0.109	0.074	0.043	Light	Light	Light
A	SLZ2	513	1150	50	234.5	0.643	-0.006	0	0.648	16	16	12	7					0.104	0.077	0.045	Light	Light	Moderate
D	SLZ2	513	1150	50	234.5	0.629	-0.009	0.005	0.635	17	17	13	7	-0.014	-0.003	0.005	1	0.109	0.081	0.044	Light	Light	Moderate
A	SLZ2	521	0	100	234.5	0.656	-0.003	-0.007	0.662	17	17	13	8					0.114	0.083	0.056	Light	Light	Moderate
D	SLZ2	521	0	100	234.5	0.64	0.001	-0.007	0.646	16	17	12	8	-0.016	0.004	0	-1	0.107	0.076	0.052	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	SLZ2	522	575	100	234.5	0.679	-0.012	0.003	0.683	15	15	12	7					0.104	0.079	0.048	Light	Light	Moderate
D	SLZ2	522	575	100	234.5	0.668	-0.012	0.007	0.673	16	16	12	7	-0.011	0	0.004	1	0.106	0.080	0.047	Light	Light	Moderate
A	SLZ2	523	1150	100	234.5	0.688	-0.009	0.004	0.692	16	16	12	7					0.108	0.080	0.050	Light	Light	Moderate
D	SLZ2	523	1150	100	234.5	0.685	-0.019	0.007	0.689	15	15	12	7	-0.003	-0.01	0.003	-1	0.100	0.084	0.046	Light	Light	Moderate
A	SLZ2	531	0	150	234.5	0.688	-0.005	-0.004	0.693	14	15	12	8					0.101	0.083	0.053	Light	Light	Moderate
D	SLZ2	531	0	150	234.5	0.688	-0.007	-0.006	0.693	15	15	12	8	0	-0.002	-0.002	1	0.102	0.086	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	234.5	0.707	-0.012	0.001	0.710	14	14	12	8					0.099	0.084	0.054	Light	Light	Moderate
D	SLZ2	532	575	150	234.5	0.706	-0.011	0.005	0.709	15	15	12	7	-0.001	0.001	0.004	1	0.105	0.082	0.051	Light	Light	Moderate
A	SLZ2	533	1150	150	234.5	0.693	-0.016	0.007	0.697	15	15	11	7					0.102	0.078	0.052	Light	Light	Moderate
D	SLZ2	533	1150	150	234.5	0.708	-0.015	0.007	0.711	15	15	12	7	0.015	0.001	0	0	0.104	0.082	0.052	Light	Light	Moderate
A	SLZ2	541	0	250	234.5	0.736	-0.018	0.002	0.739	14	14	12	8					0.100	0.086	0.059	Light	Light	Moderate
D	SLZ2	541	0	250	234.5	0.733	-0.016	0.002	0.736	14	14	12	8	-0.003	0.002	0	0	0.104	0.087	0.058	Light	Light	Moderate
A	SLZ2	542	575	250	234.5	0.727	-0.013	0.004	0.730	14	14	12	8					0.102	0.084	0.060	Light	Light	Moderate
D	SLZ2	542	575	250	234.5	0.737	-0.017	0.001	0.739	14	14	11	8	0.01	-0.004	-0.003	0	0.102	0.082	0.060	Light	Light	Moderate
A	SLZ2	543	1150	250	234.5	0.75	-0.013	0.003	0.752	13	13	11	8					0.097	0.085	0.060	Light	Light	Moderate
D	SLZ2	543	1150	250	234.5	0.735	-0.021	0.01	0.739	14	14	12	8	-0.015	-0.008	0.007	1	0.103	0.088	0.060	Light	Light	Moderate
A	Runway	101	0	25	257	0.548	0	0.006	0.559	19	20	14	9					0.110	0.079	0.049	Light	Light	Moderate
D	Runway	101	0	25	257	0.531	-0.006	0.01	0.543	20	20	15	9	-0.017	-0.006	0.004	1	0.110	0.079	0.047	Light	Light	Moderate
A	Runway	102	695	25	257	0.541	-0.008	0.006	0.553	19	20	15	8					0.109	0.084	0.047	Light	Light	Moderate
D	Runway	102	695	25	257	0.405	-0.024	0.001	0.441	24	27	25	15	-0.136	-0.016	-0.005	5	0.120	0.112	0.068	Light	Light	Moderate
A	Runway	103	1389	25	257	0.538	-0.008	0.004	0.549	18	18	15	8					0.099	0.080	0.045	Light	Light	Moderate
D	Runway	103	1389	25	257	0.426	0.012	-0.001	0.453	23	26	21	14	-0.112	0.02	-0.005	5	0.118	0.096	0.062	Light	Light	Moderate
A	Runway	104	2064	25	257	0.549	-0.007	0.008	0.559	19	19	14	8					0.105	0.079	0.043	Light	Light	Light
D	Runway	104	2064	25	257	0.469	0.018	0.003	0.489	21	22	19	11	-0.08	0.025	-0.005	2	0.107	0.091	0.054	Light	Light	Moderate
A	Runway	105	2739	25	257	0.533	-0.006	0.003	0.544	18	18	15	8					0.099	0.080	0.044	Light	Light	Moderate
D	Runway	105	2739	25	257	0.483	0.003	0.001	0.498	20	21	15	10	-0.05	0.009	-0.002	2	0.105	0.076	0.050	Light	Light	Moderate
A	Runway	106	3300	25	257	0.445	-0.034	0	0.468	22	24	18	12					0.111	0.084	0.057	Light	Light	Moderate
D	Runway	106	3300	25	257	0.437	-0.028	0	0.458	21	23	18	12	-0.008	0.006	0	-1	0.105	0.081	0.056	Light	Light	Moderate
A	Runway	107	3875	25	257	0.481	0.048	-0.023	0.503	24	26	17	12					0.131	0.084	0.063	Light	Light	Moderate
D	Runway	107	3875	25	257	0.482	0.052	-0.023	0.506	25	27	17	12	0.001	0.004	0	1	0.135	0.085	0.063	Light	Light	Moderate
A	Runway	108	4450	25	257	0.57	-0.006	0	0.580	18	18	14	8					0.107	0.081	0.044	Light	Light	Moderate
D	Runway	108	4450	25	257	0.574	-0.012	0.003	0.582	18	18	13	7	0.004	-0.006	0.003	0	0.104	0.075	0.043	Light	Light	Light
A	Runway	111	0	50	257	0.579	0.001	0.009	0.590	19	19	15	9					0.115	0.087	0.053	Light	Light	Moderate
D	Runway	111	0	50	257	0.588	-0.003	0.01	0.597	18	18	14	9	0.009	-0.004	0.001	-1	0.108	0.082	0.051	Light	Light	Moderate
A	Runway	112	695	50	257	0.595	-0.013	0.007	0.604	18	18	14	8					0.110	0.085	0.050	Light	Light	Moderate
D	Runway	112	695	50	257	0.448	-0.016	-0.004	0.476	26	29	21	15	-0.147	-0.003	-0.011	8	0.136	0.099	0.069	Light	Light	Moderate
A	Runway	113	1389	50	257	0.58	-0.01	0.007	0.589	18	18	14	8					0.108	0.083	0.046	Light	Light	Moderate
D	Runway	113	1389	50	257	0.481	0.009	-0.009	0.502	24	26	19	12	-0.099	0.019	-0.016	6	0.130	0.095	0.058	Light	Light	Moderate
A	Runway	114	2064	50	257	0.602	-0.006	0.006	0.609	18	18	13	7					0.107	0.079	0.045	Light	Light	Moderate
D	Runway	114	2064	50	257	0.507	0.018	-0.003	0.525	23	24	18	11	-0.095	0.024	-0.009	5	0.124	0.093	0.057	Light	Light	Moderate
A	Runway	115	2739	50	257	0.581	-0.009	0.005	0.590	17	17	14	8					0.101	0.080	0.047	Light	Light	Moderate
D	Runway	115	2739	50	257	0.559	0.006	-0.002	0.570	20	20	14	8	-0.022	0.015	-0.007	3	0.115	0.078	0.047	Light	Light	Moderate
A	Runway	116	3300	50	257	0.519	-0.026	-0.007	0.533	21	22	15	10					0.116	0.078	0.056	Light	Light	Moderate
D	Runway	116	3300	50	257	0.502	-0.026	-0.007	0.516	21	22	14	10	-0.017	0	0	0	0.112	0.075	0.054	Light	Light	Moderate
A	Runway	117	3875	50	257	0.534	0.027	-0.034	0.550	22	23	16	10					0.128	0.086	0.055	Light	Light	Moderate
D	Runway	117	3875	50	257	0.548	0.027	-0.035	0.565	24	25	15	10	0.014	0	-0.001	2	0.140	0.087	0.054	Light	Light	Moderate
A	Runway	118	4450	50	257	0.608	-0.007	0.008	0.615	18	18	13	8					0.110	0.081	0.046	Light	Light	Moderate
D	Runway	118	4450	50	257	0.611	-0.007	0.008	0.618	17	17	13	7	0.003	0	0	-1	0.105	0.079	0.045	Light	Light	Moderate
A	Runway	121	0	100	257	0.626	-0.001	0.008	0.634	19	19	14	9					0.118	0.086	0.055	Light	Light	Moderate
D	Runway	121	0	100	257	0.635	-0.009	0.003	0.642	18	18	13	8	0.009	-0.008	-0.005	-1	0.116	0.082	0.053	Light	Light	Moderate
A	Runway	122	695	100	257	0.645	-0.012	0.004	0.653	18	18	14	8					0.120	0.088	0.055	Light	Light	Moderate
D	Runway	122	695	100	257	0.576	-0.011	-0.007	0.589	22	23	15	10	-0.069	0.001	-0.011	4	0.136	0.090	0.058	Light	Light	Moderate
A	Runway	123	1389	100	257	0.634	-0.013	0.006	0.641	17	18	13	8					0.112	0.082	0.052	Light	Light	Moderate
D	Runway	123	1389	100	257	0.6	-0.003	-0.01	0.610	21	21	14	9	-0.034	0.01	-0.016	4	0.128	0.087	0.056	Light	Light	Moderate
A	Runway	124	2064	100	257	0.64	-0.006	0.008	0.647	17	17	13	8					0.110	0.087	0.052	Light	Light	Moderate
D	Runway	124	2064	100	257	0.616	0.002	-0.006	0.625	20	20	14	9	-0.024	0.008	-0.014	3	0.126	0.089	0.053	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])													
A	Runway	125	2739	100	257	0.638	-0.01	0.008	0.645	17	17	13	8					0.112	0.085	0.049	Light	Light	Moderate
D	Runway	125	2739	100	257	0.63	0.004	0.004	0.637	18	18	13	8	-0.008	0.014	-0.004	1	0.116	0.084	0.050	Light	Light	Moderate
A	Runway	126	3300	100	257	0.615	-0.023	-0.007	0.623	19	19	13	8					0.117	0.082	0.052	Light	Light	Moderate
D	Runway	126	3300	100	257	0.611	-0.021	-0.007	0.618	18	18	12	8	-0.004	0.002	0	-1	0.110	0.073	0.050	Light	Light	Moderate
A	Runway	127	3875	100	257	0.628	-0.003	-0.024	0.635	17	17	13	8					0.106	0.082	0.049	Light	Light	Moderate
D	Runway	127	3875	100	257	0.646	0.001	-0.027	0.652	16	16	12	8	0.018	0.004	-0.003	-1	0.106	0.081	0.049	Light	Light	Moderate
A	Runway	128	4450	100	257	0.65	-0.005	0.007	0.656	17	17	13	8					0.110	0.085	0.053	Light	Light	Moderate
D	Runway	128	4450	100	257	0.656	-0.009	0.008	0.662	17	17	12	7	0.006	-0.004	0.001	0	0.114	0.081	0.049	Light	Light	Moderate
A	Runway	131	0	150	257	0.665	-0.01	0.004	0.671	17	18	13	9					0.117	0.086	0.059	Light	Light	Moderate
D	Runway	131	0	150	257	0.677	-0.001	0.006	0.683	17	17	13	8	0.012	0.009	0.002	0	0.115	0.086	0.055	Light	Light	Moderate
A	Runway	132	695	150	257	0.668	-0.01	0.006	0.673	17	17	13	8					0.113	0.086	0.056	Light	Light	Moderate
D	Runway	132	695	150	257	0.655	-0.01	-0.008	0.662	19	19	13	8	-0.013	0	-0.014	2	0.126	0.085	0.055	Light	Light	Moderate
A	Runway	133	1389	150	257	0.681	-0.01	0	0.686	17	17	12	8					0.114	0.086	0.055	Light	Light	Moderate
D	Runway	133	1389	150	257	0.648	-0.014	-0.009	0.655	19	19	12	8	-0.033	-0.004	-0.009	2	0.125	0.081	0.052	Light	Light	Moderate
A	Runway	134	2064	150	257	0.678	-0.008	0.005	0.683	17	17	13	8					0.116	0.087	0.053	Light	Light	Moderate
D	Runway	134	2064	150	257	0.652	-0.002	-0.005	0.659	18	18	13	8	-0.026	0.006	-0.01	1	0.119	0.087	0.054	Light	Light	Moderate
A	Runway	135	2739	150	257	0.66	-0.012	0.01	0.666	15	15	13	8					0.101	0.084	0.054	Light	Light	Moderate
D	Runway	135	2739	150	257	0.68	-0.002	0.003	0.685	16	16	13	8	0.02	0.01	-0.007	1	0.112	0.088	0.052	Light	Light	Moderate
A	Runway	136	3300	150	257	0.664	-0.017	-0.001	0.670	17	18	13	9					0.118	0.086	0.057	Light	Light	Moderate
D	Runway	136	3300	150	257	0.65	-0.02	-0.004	0.657	17	17	13	8	-0.014	-0.003	-0.003	0	0.110	0.084	0.053	Light	Light	Moderate
A	Runway	137	3875	150	257	0.667	-0.006	-0.016	0.672	16	16	13	8					0.110	0.084	0.054	Light	Light	Moderate
D	Runway	137	3875	150	257	0.662	0	-0.015	0.668	16	16	13	8	-0.005	0.006	0.001	0	0.107	0.084	0.054	Light	Light	Moderate
A	Runway	138	4450	150	257	0.664	-0.015	0.01	0.670	15	15	12	8					0.103	0.083	0.055	Light	Light	Moderate
D	Runway	138	4450	150	257	0.699	-0.011	0.006	0.704	16	16	13	8	0.035	0.004	-0.004	1	0.112	0.090	0.055	Light	Light	Moderate
A	Runway	141	0	250	257	0.723	-0.01	0.003	0.727	15	15	12	9					0.111	0.087	0.063	Light	Light	Moderate
D	Runway	141	0	250	257	0.736	-0.004	0.003	0.739	15	15	12	8	0.013	0.006	0	0	0.113	0.085	0.063	Light	Light	Moderate
A	Runway	142	695	250	257	0.721	-0.011	0.003	0.725	15	15	12	9					0.110	0.083	0.063	Light	Light	Moderate
D	Runway	142	695	250	257	0.714	-0.012	-0.007	0.717	16	16	11	9	-0.007	-0.001	-0.01	1	0.116	0.080	0.062	Light	Light	Moderate
A	Runway	143	1389	250	257	0.716	-0.013	0.001	0.719	15	15	12	8					0.108	0.083	0.061	Light	Light	Moderate
D	Runway	143	1389	250	257	0.716	-0.008	-0.006	0.720	16	16	12	8	0	0.005	-0.007	1	0.116	0.087	0.058	Light	Light	Moderate
A	Runway	144	2064	250	257	0.715	-0.014	0.006	0.719	15	15	12	8					0.111	0.089	0.061	Light	Light	Moderate
D	Runway	144	2064	250	257	0.72	-0.009	-0.009	0.723	15	15	11	8	0.005	0.005	-0.015	0	0.110	0.083	0.059	Light	Light	Moderate
A	Runway	145	2739	250	257	0.703	-0.011	0.003	0.708	14	14	12	9					0.102	0.087	0.062	Light	Light	Moderate
D	Runway	145	2739	250	257	0.691	-0.005	0.004	0.697	16	16	12	9	-0.012	0.006	0.001	2	0.112	0.084	0.063	Light	Light	Moderate
A	Runway	146	3300	250	257	0.695	-0.019	-0.001	0.700	16	16	12	9					0.111	0.087	0.060	Light	Light	Moderate
D	Runway	146	3300	250	257	0.697	-0.015	-0.001	0.702	15	15	13	9	0.002	0.004	0	-1	0.105	0.089	0.062	Light	Light	Moderate
A	Runway	147	3875	250	257	0.697	-0.014	-0.003	0.702	15	15	12	9					0.108	0.087	0.065	Light	Light	Moderate
D	Runway	147	3875	250	257	0.683	-0.005	-0.005	0.689	16	16	12	9	-0.014	0.009	-0.002	1	0.110	0.082	0.065	Light	Light	Moderate
A	Runway	148	4450	250	257	0.702	-0.012	0.005	0.707	16	16	12	9					0.113	0.085	0.063	Light	Light	Moderate
D	Runway	148	4450	250	257	0.704	-0.004	0.006	0.708	15	15	12	9	0.002	0.008	0.001	-1	0.108	0.084	0.064	Light	Light	Moderate
A	HPLZ1	201	0	25	257	0.531	-0.004	-0.008	0.542	19	19	14	9					0.103	0.077	0.046	Light	Light	Moderate
D	HPLZ1	201	0	25	257	0.46	0.007	-0.007	0.481	21	23	20	11	-0.071	0.011	0.001	2	0.108	0.095	0.052	Light	Light	Moderate
A	HPLZ1	202	675	25	257	0.54	-0.011	-0.002	0.550	18	18	14	8					0.100	0.078	0.045	Light	Light	Moderate
D	HPLZ1	202	675	25	257	0.5	0.013	0.001	0.515	21	21	16	10	-0.04	0.024	0.003	3	0.108	0.085	0.050	Light	Light	Moderate
A	HPLZ1	203	1350	25	257	0.553	-0.009	0.008	0.563	17	17	13	8					0.096	0.075	0.045	Light	Light	Moderate
D	HPLZ1	203	1350	25	257	0.517	-0.005	0.005	0.529	19	19	14	9	-0.036	0.004	-0.003	2	0.102	0.075	0.047	Light	Light	Moderate
A	HPLZ1	211	0	50	257	0.589	-0.011	-0.002	0.598	18	18	14	8					0.109	0.082	0.048	Light	Light	Moderate
D	HPLZ1	211	0	50	257	0.516	-0.002	-0.008	0.532	21	22	17	10	-0.073	0.009	-0.006	3	0.117	0.088	0.055	Light	Light	Moderate
A	HPLZ1	212	675	50	257	0.597	-0.004	0.004	0.605	17	18	13	8					0.106	0.080	0.049	Light	Light	Moderate
D	HPLZ1	212	675	50	257	0.552	0.013	-0.005	0.565	20	20	15	9	-0.045	0.017	-0.009	3	0.115	0.087	0.053	Light	Light	Moderate
A	HPLZ1	213	1350	50	257	0.599	-0.005	0.007	0.607	17	17	14	7					0.106	0.082	0.044	Light	Light	Moderate
D	HPLZ1	213	1350	50	257	0.568	-0.002	0.006	0.578	19	19	14	8	-0.031	0.003	-0.001	2	0.110	0.078	0.048	Light	Light	Moderate
A	HPLZ1	221	0	100	257	0.631	-0.012	-0.004	0.638	17	17	13	8					0.109	0.082	0.052	Light	Light	Moderate
D	HPLZ1	221	0	100	257	0.59	-0.005	-0.007	0.601	21	22	14	9	-0.041	0.007	-0.003	4	0.129	0.084	0.055	Light	Light	Moderate
A	HPLZ1	222	675	100	257	0.644	0.004	0.005	0.651	17	17	13	8					0.109	0.086	0.050	Light	Light	Moderate
D	HPLZ1	222	675	100	257	0.615	-0.004	-0.005	0.624	18	18	13	9	-0.029	-0.008	-0.01	1	0.113	0.084	0.053	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	223	1350	100	257	0.651	-0.004	0.006	0.657	18	18	13	8					0.117	0.087	0.050	Light	Light	Moderate
D	HPLZ1	223	1350	100	257	0.633	0.001	0.007	0.639	17	17	13	8	-0.018	0.005	0.001	-1	0.109	0.080	0.048	Light	Light	Moderate
A	HPLZ1	231	0	150	257	0.668	-0.008	-0.001	0.674	17	17	13	8					0.114	0.090	0.057	Light	Light	Moderate
D	HPLZ1	231	0	150	257	0.662	-0.012	-0.008	0.668	18	18	13	8	-0.006	-0.004	-0.007	1	0.119	0.090	0.055	Light	Light	Moderate
A	HPLZ1	232	675	150	257	0.674	-0.009	0.006	0.679	16	16	12	8					0.109	0.085	0.055	Light	Light	Moderate
D	HPLZ1	232	675	150	257	0.669	-0.006	-0.005	0.676	18	18	13	9	-0.005	0.003	-0.011	2	0.121	0.088	0.057	Light	Light	Moderate
A	HPLZ1	233	1350	150	257	0.67	-0.012	0.007	0.676	16	16	13	8					0.108	0.085	0.055	Light	Light	Moderate
D	HPLZ1	233	1350	150	257	0.661	-0.006	0.006	0.666	16	16	12	8	-0.009	0.006	-0.001	0	0.109	0.082	0.052	Light	Light	Moderate
A	HPLZ1	241	0	250	257	0.714	-0.006	0.001	0.718	16	16	13	8					0.114	0.091	0.059	Light	Light	Moderate
D	HPLZ1	241	0	250	257	0.704	-0.014	0.001	0.709	17	17	12	8	-0.01	-0.008	0	1	0.120	0.088	0.059	Light	Light	Moderate
A	HPLZ1	242	675	250	257	0.725	-0.009	0	0.729	16	16	12	9					0.115	0.087	0.062	Light	Light	Moderate
D	HPLZ1	242	675	250	257	0.719	-0.007	-0.007	0.723	14	14	12	8	-0.006	0.002	-0.007	-2	0.104	0.088	0.060	Light	Light	Moderate
A	HPLZ1	243	1350	250	257	0.71	-0.013	0.003	0.715	16	16	12	9					0.111	0.088	0.061	Light	Light	Moderate
D	HPLZ1	243	1350	250	257	0.715	-0.006	0.001	0.718	15	15	12	9	0.005	0.007	-0.002	-1	0.110	0.084	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	257	0.555	-0.006	0	0.565	18	18	14	8					0.103	0.078	0.046	Light	Light	Moderate
D	HPLZ2	301	0	25	257	0.497	0.004	0.003	0.514	21	22	18	10	-0.058	0.01	0.003	3	0.112	0.092	0.054	Light	Light	Moderate
A	HPLZ2	302	675	25	257	0.566	-0.007	-0.006	0.575	17	17	14	8					0.098	0.081	0.044	Light	Light	Moderate
D	HPLZ2	302	675	25	257	0.524	0.008	0.001	0.537	20	20	16	9	-0.042	0.015	0.007	3	0.109	0.088	0.046	Light	Light	Moderate
A	HPLZ2	303	1350	25	257	0.54	-0.009	-0.001	0.551	18	18	14	8					0.100	0.078	0.045	Light	Light	Moderate
D	HPLZ2	303	1350	25	257	0.511	-0.016	0	0.524	19	20	15	9	-0.029	-0.007	0.001	1	0.103	0.077	0.046	Light	Light	Moderate
A	HPLZ2	311	0	50	257	0.597	-0.009	0.003	0.605	18	18	13	8					0.107	0.081	0.046	Light	Light	Moderate
D	HPLZ2	311	0	50	257	0.546	-0.001	0.001	0.559	20	21	15	10	-0.051	0.008	-0.002	2	0.117	0.086	0.053	Light	Light	Moderate
A	HPLZ2	312	675	50	257	0.604	-0.012	0.004	0.612	17	17	14	8					0.107	0.084	0.046	Light	Light	Moderate
D	HPLZ2	312	675	50	257	0.569	0.009	-0.001	0.580	21	21	15	9	-0.035	0.021	-0.005	4	0.122	0.085	0.052	Light	Light	Moderate
A	HPLZ2	313	1350	50	257	0.589	-0.013	0.004	0.598	18	18	14	8					0.106	0.082	0.046	Light	Light	Moderate
D	HPLZ2	313	1350	50	257	0.557	-0.009	0.004	0.568	19	20	15	9	-0.032	0.004	0	1	0.111	0.084	0.050	Light	Light	Moderate
A	HPLZ2	321	0	100	257	0.637	-0.01	0.004	0.644	19	19	13	8					0.120	0.081	0.052	Light	Light	Moderate
D	HPLZ2	321	0	100	257	0.611	-0.008	-0.002	0.619	20	20	13	9	-0.026	0.002	-0.006	1	0.123	0.083	0.055	Light	Light	Moderate
A	HPLZ2	322	675	100	257	0.641	-0.008	0.005	0.648	17	17	13	8					0.111	0.086	0.052	Light	Light	Moderate
D	HPLZ2	322	675	100	257	0.62	-0.001	-0.003	0.629	19	19	14	9	-0.021	0.007	-0.008	2	0.121	0.091	0.053	Light	Light	Moderate
A	HPLZ2	323	1350	100	257	0.65	-0.01	0	0.655	16	16	12	8					0.107	0.081	0.051	Light	Light	Moderate
D	HPLZ2	323	1350	100	257	0.644	-0.012	0.001	0.650	18	18	12	8	-0.006	-0.002	0.001	2	0.114	0.081	0.051	Light	Light	Moderate
A	HPLZ2	331	0	150	257	0.678	-0.007	0.007	0.684	17	17	13	8					0.119	0.090	0.058	Light	Light	Moderate
D	HPLZ2	331	0	150	257	0.656	-0.009	0	0.663	18	18	13	8	-0.022	-0.002	-0.007	1	0.120	0.088	0.056	Light	Light	Moderate
A	HPLZ2	332	675	150	257	0.684	-0.005	0	0.689	16	16	12	8					0.111	0.086	0.055	Light	Light	Moderate
D	HPLZ2	332	675	150	257	0.667	-0.003	-0.002	0.673	17	17	13	8	-0.017	0.002	-0.002	1	0.113	0.086	0.054	Light	Light	Moderate
A	HPLZ2	333	1350	150	257	0.664	-0.017	0.003	0.670	17	17	13	8					0.114	0.084	0.055	Light	Light	Moderate
D	HPLZ2	333	1350	150	257	0.664	-0.01	0.001	0.669	16	16	12	8	0	0.007	-0.002	-1	0.109	0.080	0.054	Light	Light	Moderate
A	HPLZ2	341	0	250	257	0.728	-0.005	0.001	0.731	15	15	12	9					0.108	0.089	0.063	Light	Light	Moderate
D	HPLZ2	341	0	250	257	0.729	-0.015	0	0.733	15	15	12	8	0.001	-0.01	-0.001	0	0.112	0.088	0.060	Light	Light	Moderate
A	HPLZ2	342	675	250	257	0.716	-0.014	0	0.720	15	15	12	8					0.109	0.087	0.061	Light	Light	Moderate
D	HPLZ2	342	675	250	257	0.705	-0.005	-0.002	0.709	16	16	12	8	-0.011	0.009	-0.002	1	0.114	0.085	0.059	Light	Light	Moderate
A	HPLZ2	343	1350	250	257	0.707	-0.015	-0.001	0.711	16	16	12	9					0.111	0.086	0.061	Light	Light	Moderate
D	HPLZ2	343	1350	250	257	0.712	-0.016	-0.001	0.716	16	16	12	9	0.005	-0.001	0	0	0.112	0.087	0.061	Light	Light	Moderate
A	SLZ1	401	0	25	257	0.471	-0.018	0.007	0.489	21	22	17	11					0.109	0.085	0.054	Light	Light	Moderate
D	SLZ1	401	0	25	257	0.48	-0.022	0.007	0.499	22	23	18	11	0.009	-0.004	0	1	0.115	0.090	0.053	Light	Light	Moderate
A	SLZ1	402	575	25	257	0.511	0.016	-0.003	0.525	21	22	14	10					0.116	0.075	0.053	Light	Light	Moderate
D	SLZ1	402	575	25	257	0.524	0.021	0	0.537	21	21	13	9	0.013	0.005	0.003	0	0.114	0.071	0.050	Light	Light	Moderate
A	SLZ1	403	1150	25	257	0.564	-0.006	-0.001	0.574	19	20	14	8					0.113	0.081	0.045	Light	Light	Moderate
D	SLZ1	403	1150	25	257	0.557	0	-0.001	0.568	19	19	15	8	-0.007	0.006	0	0	0.108	0.084	0.046	Light	Light	Moderate
A	SLZ1	411	0	50	257	0.531	-0.02	-0.001	0.545	20	21	15	10					0.113	0.083	0.055	Light	Light	Moderate
D	SLZ1	411	0	50	257	0.528	-0.025	-0.001	0.542	21	21	15	10	-0.003	-0.005	0	1	0.115	0.081	0.052	Light	Light	Moderate
A	SLZ1	412	575	50	257	0.574	0.016	-0.012	0.584	20	20	13	9					0.116	0.075	0.053	Light	Light	Moderate
D	SLZ1	412	575	50	257	0.56	0.012	-0.012	0.571	19	20	13	10	-0.014	-0.004	0	-1	0.113	0.077	0.055	Light	Light	Moderate
A	SLZ1	413	1150	50	257	0.59	-0.008	0.004	0.598	18	18	13	8					0.110	0.079	0.047	Light	Light	Moderate
D	SLZ1	413	1150	50	257	0.606	-0.004	0.002	0.613	19	19	12	7	0.016	0.004	-0.002	1	0.114	0.076	0.046	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	SLZ1	421	0	100	257	0.615	-0.016	-0.002	0.623	18	18	13	8					0.115	0.082	0.051	Light	Light	Moderate
D	SLZ1	421	0	100	257	0.61	-0.023	-0.002	0.618	18	18	13	8	-0.005	-0.007	0	0	0.110	0.079	0.050	Light	Light	Moderate
A	SLZ1	422	575	100	257	0.639	-0.002	-0.013	0.646	17	17	13	8					0.112	0.085	0.051	Light	Light	Moderate
D	SLZ1	422	575	100	257	0.619	0.004	-0.009	0.627	19	19	13	8	-0.02	0.006	0.004	2	0.118	0.083	0.051	Light	Light	Moderate
A	SLZ1	423	1150	100	257	0.634	-0.006	0.005	0.640	17	17	12	8					0.107	0.078	0.051	Light	Light	Moderate
D	SLZ1	423	1150	100	257	0.656	-0.009	0.006	0.662	16	16	12	8	0.022	-0.003	0.001	-1	0.109	0.082	0.051	Light	Light	Moderate
A	SLZ1	431	0	150	257	0.653	-0.02	0.001	0.660	17	17	13	8					0.113	0.085	0.054	Light	Light	Moderate
D	SLZ1	431	0	150	257	0.663	-0.015	0.002	0.670	17	17	13	8	0.01	0.005	0.001	0	0.114	0.088	0.055	Light	Light	Moderate
A	SLZ1	432	575	150	257	0.669	-0.006	-0.005	0.674	15	15	13	8					0.104	0.084	0.055	Light	Light	Moderate
D	SLZ1	432	575	150	257	0.665	-0.005	-0.005	0.671	17	17	13	8	-0.004	0.001	0	2	0.111	0.086	0.054	Light	Light	Moderate
A	SLZ1	433	1150	150	257	0.67	-0.002	0.004	0.675	16	16	12	8					0.108	0.081	0.056	Light	Light	Moderate
D	SLZ1	433	1150	150	257	0.673	-0.017	0.009	0.679	16	16	13	8	0.003	-0.015	0.005	0	0.109	0.088	0.056	Light	Light	Moderate
A	SLZ1	441	0	250	257	0.696	-0.013	-0.001	0.701	15	15	12	8					0.107	0.084	0.059	Light	Light	Moderate
D	SLZ1	441	0	250	257	0.712	-0.014	0	0.715	14	14	11	8	0.016	-0.001	0.001	-1	0.103	0.081	0.059	Light	Light	Moderate
A	SLZ1	442	575	250	257	0.691	-0.015	-0.006	0.695	15	15	12	9					0.105	0.081	0.060	Light	Light	Moderate
D	SLZ1	442	575	250	257	0.695	-0.016	-0.002	0.700	15	15	12	9	0.004	-0.001	0.004	0	0.104	0.085	0.060	Light	Light	Moderate
A	SLZ1	443	1150	250	257	0.696	-0.017	0.004	0.701	16	16	12	9					0.110	0.085	0.062	Light	Light	Moderate
D	SLZ1	443	1150	250	257	0.711	-0.014	0.007	0.715	15	15	12	9	0.015	0.003	0.003	-1	0.107	0.086	0.063	Light	Light	Moderate
A	SLZ2	501	0	25	257	0.498	-0.005	0.001	0.512	20	21	16	10					0.106	0.080	0.049	Light	Light	Moderate
D	SLZ2	501	0	25	257	0.489	-0.002	0.002	0.505	21	22	17	10	-0.009	0.003	0.001	1	0.113	0.087	0.049	Light	Light	Moderate
A	SLZ2	502	575	25	257	0.542	-0.002	-0.001	0.553	19	19	13	9					0.107	0.072	0.049	Light	Light	Moderate
D	SLZ2	502	575	25	257	0.555	0	-0.003	0.565	19	19	12	8	0.013	0.002	-0.002	0	0.109	0.070	0.047	Light	Light	Moderate
A	SLZ2	503	1150	25	257	0.568	-0.003	0.002	0.577	19	19	14	8					0.108	0.078	0.046	Light	Light	Moderate
D	SLZ2	503	1150	25	257	0.573	-0.005	0.002	0.582	19	19	13	8	0.005	-0.002	0	0	0.111	0.076	0.044	Light	Light	Moderate
A	SLZ2	511	0	50	257	0.541	-0.007	0.002	0.553	19	20	14	9					0.108	0.080	0.051	Light	Light	Moderate
D	SLZ2	511	0	50	257	0.55	-0.004	-0.001	0.561	19	19	14	9	0.009	0.003	-0.003	0	0.109	0.080	0.052	Light	Light	Moderate
A	SLZ2	512	575	50	257	0.573	0.003	-0.005	0.583	19	19	13	9					0.112	0.077	0.052	Light	Light	Moderate
D	SLZ2	512	575	50	257	0.581	0.002	-0.006	0.590	18	18	13	8	0.008	-0.001	-0.001	-1	0.108	0.074	0.050	Light	Light	Moderate
A	SLZ2	513	1150	50	257	0.62	-0.002	0.002	0.627	17	17	13	7					0.107	0.081	0.045	Light	Light	Moderate
D	SLZ2	513	1150	50	257	0.606	-0.001	0.005	0.613	19	19	12	7	-0.014	0.001	0.003	2	0.118	0.075	0.046	Light	Light	Moderate
A	SLZ2	521	0	100	257	0.604	-0.008	-0.001	0.612	19	19	13	9					0.117	0.082	0.054	Light	Light	Moderate
D	SLZ2	521	0	100	257	0.604	-0.012	-0.001	0.612	19	19	13	8	0	-0.004	0	0	0.115	0.081	0.051	Light	Light	Moderate
A	SLZ2	522	575	100	257	0.635	0.002	-0.003	0.642	18	18	13	9					0.118	0.084	0.055	Light	Light	Moderate
D	SLZ2	522	575	100	257	0.641	0.003	-0.006	0.647	16	16	13	8	0.006	0.001	-0.003	-2	0.107	0.083	0.051	Light	Light	Moderate
A	SLZ2	523	1150	100	257	0.648	-0.004	0.01	0.655	17	17	13	8					0.114	0.088	0.054	Light	Light	Moderate
D	SLZ2	523	1150	100	257	0.652	-0.012	0.008	0.658	16	16	13	8	0.004	-0.008	-0.002	-1	0.103	0.083	0.050	Light	Light	Moderate
A	SLZ2	531	0	150	257	0.654	-0.007	-0.002	0.660	17	17	13	8					0.112	0.084	0.053	Light	Light	Moderate
D	SLZ2	531	0	150	257	0.653	-0.012	-0.002	0.659	16	16	13	8	-0.001	-0.005	0	-1	0.107	0.084	0.054	Light	Light	Moderate
A	SLZ2	532	575	150	257	0.658	-0.007	-0.002	0.664	16	16	12	8					0.105	0.079	0.055	Light	Light	Moderate
D	SLZ2	532	575	150	257	0.673	-0.006	-0.003	0.678	16	16	12	8	0.015	0.001	-0.001	0	0.108	0.085	0.054	Light	Light	Moderate
A	SLZ2	533	1150	150	257	0.664	-0.015	0.006	0.669	17	17	12	8					0.114	0.080	0.056	Light	Light	Moderate
D	SLZ2	533	1150	150	257	0.671	-0.009	0.007	0.677	16	16	13	8	0.007	0.006	0.001	-1	0.108	0.086	0.055	Light	Light	Moderate
A	SLZ2	541	0	250	257	0.696	-0.012	-0.002	0.701	16	16	12	8					0.114	0.086	0.059	Light	Light	Moderate
D	SLZ2	541	0	250	257	0.7	-0.013	0.003	0.704	15	15	11	9	0.004	-0.001	0.005	-1	0.105	0.079	0.061	Light	Light	Moderate
A	SLZ2	542	575	250	257	0.702	-0.012	0	0.706	14	14	12	9					0.101	0.081	0.061	Light	Light	Moderate
D	SLZ2	542	575	250	257	0.713	-0.009	-0.003	0.716	15	15	11	8	0.011	0.003	-0.003	1	0.107	0.081	0.060	Light	Light	Moderate
A	SLZ2	543	1150	250	257	0.696	-0.007	0.007	0.701	15	15	12	9					0.106	0.085	0.061	Light	Light	Moderate
D	SLZ2	543	1150	250	257	0.732	-0.008	0.002	0.735	14	15	11	9	0.036	-0.001	-0.005	-1	0.107	0.082	0.064	Light	Light	Moderate
A	Runway	101	0	25	279.5	0.492	-0.018	0.005	0.508	21	22	16	11					0.110	0.081	0.055	Light	Light	Moderate
D	Runway	101	0	25	279.5	0.496	-0.017	0.006	0.512	21	22	16	10	0.004	0.001	0.001	0	0.112	0.083	0.052	Light	Light	Moderate
A	Runway	102	695	25	279.5	0.531	-0.012	0.007	0.544	20	20	15	8					0.111	0.082	0.046	Light	Light	Moderate
D	Runway	102	695	25	279.5	0.506	-0.025	0.008	0.521	20	20	16	10	-0.025	-0.013	0.001	0	0.104	0.083	0.049	Light	Light	Moderate
A	Runway	103	1389	25	279.5	0.534	0.001	0.005	0.547	19	20	15	8					0.107	0.084	0.046	Light	Light	Moderate
D	Runway	103	1389	25	279.5	0.427	-0.026	0.008	0.454	24	26	22	14	-0.107	-0.027	0.003	5	0.118	0.099	0.062	Light	Light	Moderate
A	Runway	104	2064	25	279.5	0.529	0.002	0.006	0.541	18	18	15	8					0.100	0.084	0.044	Light	Light	Moderate
D	Runway	104	2064	25	279.5	0.424	-0.008	0.005	0.450	24	26	22	13	-0.105	-0.01	-0.001	6	0.116	0.099	0.058	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	Runway	105	2739	25	279.5	0.522	-0.005	0.004	0.534	18	18	14	8					0.098	0.077	0.045	Light	Light	Moderate
D	Runway	105	2739	25	279.5	0.456	-0.008	0.005	0.475	22	24	17	11	-0.066	-0.003	0.001	4	0.114	0.082	0.052	Light	Light	Moderate
A	Runway	106	3300	25	279.5	0.522	-0.011	0.006	0.534	20	20	14	8					0.105	0.076	0.045	Light	Light	Moderate
D	Runway	106	3300	25	279.5	0.496	-0.012	0.006	0.510	19	19	15	9	-0.026	-0.001	0	-1	0.098	0.077	0.048	Light	Light	Moderate
A	Runway	107	3875	25	279.5	0.359	-0.002	-0.017	0.405	26	33	25	21					0.132	0.103	0.083	Light	Light	Severe
D	Runway	107	3875	25	279.5	0.351	-0.005	-0.017	0.400	27	34	26	21	-0.008	-0.003	0	1	0.136	0.106	0.083	Light	Light	Severe
A	Runway	108	4450	25	279.5	0.53	0	-0.003	0.542	20	21	14	9					0.114	0.078	0.048	Light	Light	Moderate
D	Runway	108	4450	25	279.5	0.544	0.003	-0.006	0.556	19	20	15	8	0.014	0.003	-0.003	-1	0.109	0.082	0.046	Light	Light	Moderate
A	Runway	111	0	50	279.5	0.533	-0.018	0.005	0.547	21	21	15	11					0.115	0.084	0.058	Light	Light	Moderate
D	Runway	111	0	50	279.5	0.544	-0.018	0.001	0.558	21	21	16	10	0.011	0	-0.004	0	0.119	0.087	0.055	Light	Light	Moderate
A	Runway	112	695	50	279.5	0.577	-0.006	0.007	0.587	18	18	14	9					0.107	0.080	0.052	Light	Light	Moderate
D	Runway	112	695	50	279.5	0.55	-0.026	0.01	0.563	19	20	15	9	-0.027	-0.02	0.003	1	0.111	0.083	0.050	Light	Light	Moderate
A	Runway	113	1389	50	279.5	0.568	-0.006	0.008	0.579	18	19	15	9					0.107	0.085	0.049	Light	Light	Moderate
D	Runway	113	1389	50	279.5	0.467	-0.016	-0.001	0.490	24	26	20	13	-0.101	-0.01	-0.009	6	0.128	0.097	0.064	Light	Light	Moderate
A	Runway	114	2064	50	279.5	0.581	-0.002	0.009	0.591	18	18	14	8					0.109	0.082	0.046	Light	Light	Moderate
D	Runway	114	2064	50	279.5	0.475	-0.022	0	0.497	24	25	18	12	-0.106	-0.02	-0.009	6	0.124	0.092	0.060	Light	Light	Moderate
A	Runway	115	2739	50	279.5	0.58	-0.009	0.005	0.589	19	19	14	8					0.113	0.082	0.046	Light	Light	Moderate
D	Runway	115	2739	50	279.5	0.505	-0.01	-0.003	0.520	22	23	15	11	-0.075	-0.001	-0.008	3	0.118	0.080	0.057	Light	Light	Moderate
A	Runway	116	3300	50	279.5	0.578	-0.017	0.003	0.586	18	18	13	8					0.105	0.078	0.047	Light	Light	Moderate
D	Runway	116	3300	50	279.5	0.55	-0.019	0.003	0.561	19	19	14	9	-0.028	-0.002	0	1	0.107	0.076	0.048	Light	Light	Moderate
A	Runway	117	3875	50	279.5	0.451	0.002	-0.033	0.480	25	29	19	15					0.138	0.092	0.070	Light	Light	Moderate
D	Runway	117	3875	50	279.5	0.464	-0.001	-0.035	0.490	25	28	19	14	0.013	-0.003	-0.002	0	0.137	0.094	0.068	Light	Light	Moderate
A	Runway	118	4450	50	279.5	0.579	-0.001	0.006	0.587	18	19	13	8					0.109	0.076	0.045	Light	Light	Moderate
D	Runway	118	4450	50	279.5	0.605	-0.003	0.001	0.612	18	18	12	7	0.026	-0.002	-0.005	0	0.110	0.073	0.044	Light	Light	Moderate
A	Runway	121	0	100	279.5	0.604	-0.007	0.001	0.614	19	19	14	9					0.119	0.088	0.058	Light	Light	Moderate
D	Runway	121	0	100	279.5	0.598	-0.008	0.003	0.608	20	20	14	10	-0.006	-0.001	0.002	1	0.122	0.088	0.058	Light	Light	Moderate
A	Runway	122	695	100	279.5	0.635	-0.015	0.003	0.643	18	19	13	9					0.120	0.084	0.056	Light	Light	Moderate
D	Runway	122	695	100	279.5	0.608	-0.026	0.005	0.617	19	19	13	9	-0.027	-0.011	0.002	1	0.117	0.077	0.053	Light	Light	Moderate
A	Runway	123	1389	100	279.5	0.631	-0.008	0.003	0.638	18	18	13	8					0.117	0.085	0.054	Light	Light	Moderate
D	Runway	123	1389	100	279.5	0.572	-0.009	-0.009	0.585	21	21	15	10	-0.059	-0.001	-0.012	3	0.125	0.087	0.058	Light	Light	Moderate
A	Runway	124	2064	100	279.5	0.617	-0.004	0.003	0.626	18	18	14	9					0.113	0.090	0.055	Light	Light	Moderate
D	Runway	124	2064	100	279.5	0.586	-0.015	-0.007	0.598	21	21	15	9	-0.031	-0.011	-0.01	3	0.128	0.091	0.057	Light	Light	Moderate
A	Runway	125	2739	100	279.5	0.628	0	0.008	0.635	18	18	13	8					0.113	0.085	0.051	Light	Light	Moderate
D	Runway	125	2739	100	279.5	0.593	-0.009	-0.007	0.604	20	20	14	9	-0.035	-0.009	-0.015	2	0.123	0.085	0.053	Light	Light	Moderate
A	Runway	126	3300	100	279.5	0.621	-0.019	0.004	0.628	17	17	13	8					0.106	0.079	0.051	Light	Light	Moderate
D	Runway	126	3300	100	279.5	0.616	-0.023	0.003	0.624	17	17	12	8	-0.005	-0.004	-0.001	0	0.109	0.076	0.050	Light	Light	Moderate
A	Runway	127	3875	100	279.5	0.603	-0.003	-0.024	0.612	19	20	13	8					0.119	0.081	0.051	Light	Light	Moderate
D	Runway	127	3875	100	279.5	0.608	0	-0.024	0.617	19	19	14	8	0.005	0.003	0	0	0.120	0.085	0.050	Light	Light	Moderate
A	Runway	128	4450	100	279.5	0.642	0.002	0.006	0.648	17	17	12	8					0.110	0.078	0.052	Light	Light	Moderate
D	Runway	128	4450	100	279.5	0.645	-0.01	0.008	0.651	16	16	12	8	0.003	-0.012	0.002	-1	0.102	0.080	0.052	Light	Light	Moderate
A	Runway	131	0	150	279.5	0.665	-0.006	-0.001	0.671	18	19	13	8					0.124	0.086	0.055	Light	Light	Moderate
D	Runway	131	0	150	279.5	0.654	-0.008	0.002	0.659	18	18	12	8	-0.011	-0.002	0.003	0	0.118	0.081	0.055	Light	Light	Moderate
A	Runway	132	695	150	279.5	0.675	-0.007	0.003	0.682	17	18	13	8					0.120	0.089	0.057	Light	Light	Moderate
D	Runway	132	695	150	279.5	0.654	-0.027	0.004	0.662	19	19	13	9	-0.021	-0.02	0.001	2	0.124	0.088	0.060	Light	Light	Moderate
A	Runway	133	1389	150	279.5	0.671	-0.006	0	0.678	17	18	14	9					0.119	0.092	0.060	Light	Light	Moderate
D	Runway	133	1389	150	279.5	0.644	-0.004	-0.006	0.652	19	19	14	9	-0.027	0.002	-0.006	2	0.122	0.090	0.056	Light	Light	Moderate
A	Runway	134	2064	150	279.5	0.656	-0.009	0.002	0.662	17	17	13	8					0.111	0.087	0.054	Light	Light	Moderate
D	Runway	134	2064	150	279.5	0.643	-0.005	-0.01	0.651	18	19	14	9	-0.013	0.004	-0.012	1	0.122	0.088	0.058	Light	Light	Moderate
A	Runway	135	2739	150	279.5	0.664	-0.008	0	0.670	17	17	12	8					0.114	0.082	0.055	Light	Light	Moderate
D	Runway	135	2739	150	279.5	0.656	-0.008	-0.007	0.663	19	19	13	8	-0.008	0	-0.007	2	0.125	0.084	0.053	Light	Light	Moderate
A	Runway	136	3300	150	279.5	0.665	-0.019	0.003	0.671	16	17	12	8					0.111	0.084	0.054	Light	Light	Moderate
D	Runway	136	3300	150	279.5	0.663	-0.019	0.004	0.668	17	17	12	8	-0.002	0	0.001	1	0.115	0.079	0.053	Light	Light	Moderate
A	Runway	137	3875	150	279.5	0.661	-0.006	-0.01	0.667	17	17	13	8					0.113	0.087	0.055	Light	Light	Moderate
D	Runway	137	3875	150	279.5	0.671	-0.006	-0.016	0.676	17	17	13	8	0.01	0	-0.006	0	0.113	0.085	0.053	Light	Light	Moderate
A	Runway	138	4450	150	279.5	0.677	-0.01	0.004	0.683	16	16	13	8					0.111	0.087	0.055	Light	Light	Moderate
D	Runway	138	4450	150	279.5	0.673	-0.009	0.003	0.678	15	15	12	8	-0.004	0.001	-0.001	-1	0.102	0.082	0.057	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])			(% [UVW])						
A	Runway	141	0	250	279.5	0.708	-0.003	0.004	0.712	15	15	12	9					0.110	0.085	0.061	Light	Light	Moderate
D	Runway	141	0	250	279.5	0.725	-0.009	0.004	0.729	16	16	12	8	0.017	-0.006	0	1	0.115	0.088	0.062	Light	Light	Moderate
A	Runway	142	695	250	279.5	0.74	-0.009	-0.001	0.743	15	15	12	8					0.112	0.086	0.061	Light	Light	Moderate
D	Runway	142	695	250	279.5	0.721	-0.017	-0.004	0.725	16	17	12	9	-0.019	-0.008	-0.003	1	0.120	0.085	0.062	Light	Light	Moderate
A	Runway	143	1389	250	279.5	0.71	-0.009	0	0.715	16	16	13	8					0.116	0.091	0.061	Light	Light	Moderate
D	Runway	143	1389	250	279.5	0.716	-0.009	-0.01	0.721	16	16	13	8	0.006	0	-0.01	0	0.116	0.092	0.060	Light	Light	Moderate
A	Runway	144	2064	250	279.5	0.723	-0.012	-0.003	0.727	15	15	12	8					0.111	0.090	0.060	Light	Light	Moderate
D	Runway	144	2064	250	279.5	0.697	-0.011	-0.005	0.702	16	16	12	8	-0.026	0.001	-0.002	1	0.113	0.087	0.059	Light	Light	Moderate
A	Runway	145	2739	250	279.5	0.71	-0.01	0.002	0.715	16	16	13	9					0.114	0.091	0.061	Light	Light	Moderate
D	Runway	145	2739	250	279.5	0.708	-0.009	-0.001	0.712	16	16	12	8	-0.002	0.001	-0.003	0	0.112	0.086	0.060	Light	Light	Moderate
A	Runway	146	3300	250	279.5	0.695	-0.018	0.002	0.700	16	16	12	9					0.114	0.085	0.060	Light	Light	Moderate
D	Runway	146	3300	250	279.5	0.698	-0.023	0.002	0.703	15	15	12	8	0.003	-0.005	0	-1	0.104	0.083	0.059	Light	Light	Moderate
A	Runway	147	3875	250	279.5	0.701	-0.007	-0.008	0.705	16	16	12	9					0.112	0.082	0.060	Light	Light	Moderate
D	Runway	147	3875	250	279.5	0.703	-0.006	-0.009	0.708	16	16	12	9	0.002	0.001	-0.001	0	0.111	0.088	0.061	Light	Light	Moderate
A	Runway	148	4450	250	279.5	0.71	-0.008	0	0.714	16	16	11	9					0.114	0.082	0.062	Light	Light	Moderate
D	Runway	148	4450	250	279.5	0.721	-0.014	-0.004	0.725	16	16	11	9	0.011	-0.006	-0.004	0	0.115	0.083	0.063	Light	Light	Moderate
A	HPLZ1	201	0	25	279.5	0.529	-0.002	-0.01	0.541	20	20	15	8					0.108	0.082	0.045	Light	Light	Moderate
D	HPLZ1	201	0	25	279.5	0.466	-0.02	-0.001	0.488	22	24	20	11	-0.063	-0.018	0.009	2	0.115	0.096	0.055	Light	Light	Moderate
A	HPLZ1	202	675	25	279.5	0.533	0.002	-0.008	0.544	19	19	14	8					0.104	0.076	0.044	Light	Light	Moderate
D	HPLZ1	202	675	25	279.5	0.462	-0.012	0.002	0.482	22	23	18	11	-0.071	-0.014	0.01	3	0.111	0.089	0.053	Light	Light	Moderate
A	HPLZ1	203	1350	25	279.5	0.53	0.007	0.005	0.541	19	19	14	8					0.102	0.078	0.042	Light	Light	Moderate
D	HPLZ1	203	1350	25	279.5	0.499	-0.002	0.01	0.515	21	21	17	9	-0.031	-0.009	0.005	2	0.109	0.087	0.049	Light	Light	Moderate
A	HPLZ1	211	0	50	279.5	0.566	-0.007	-0.003	0.576	20	20	15	8					0.112	0.085	0.047	Light	Light	Moderate
D	HPLZ1	211	0	50	279.5	0.508	-0.03	0	0.526	23	24	17	11	-0.058	-0.023	0.003	3	0.124	0.090	0.057	Light	Light	Moderate
A	HPLZ1	212	675	50	279.5	0.583	-0.01	0.002	0.592	18	18	14	8					0.108	0.080	0.047	Light	Light	Moderate
D	HPLZ1	212	675	50	279.5	0.521	-0.014	-0.001	0.537	22	22	17	10	-0.062	-0.004	-0.003	4	0.120	0.093	0.055	Light	Light	Moderate
A	HPLZ1	213	1350	50	279.5	0.602	0.005	0.007	0.610	16	16	14	7					0.099	0.083	0.044	Light	Light	Moderate
D	HPLZ1	213	1350	50	279.5	0.533	-0.001	0.007	0.548	21	21	17	10	-0.069	-0.006	0	5	0.117	0.092	0.054	Light	Light	Moderate
A	HPLZ1	221	0	100	279.5	0.624	-0.007	-0.002	0.633	19	19	14	9					0.118	0.087	0.055	Light	Light	Moderate
D	HPLZ1	221	0	100	279.5	0.596	-0.021	-0.006	0.607	22	22	15	9	-0.028	-0.014	-0.004	3	0.134	0.089	0.057	Light	Light	Moderate
A	HPLZ1	222	675	100	279.5	0.621	-0.006	0.002	0.628	19	19	12	8					0.119	0.078	0.052	Light	Light	Moderate
D	HPLZ1	222	675	100	279.5	0.591	-0.014	-0.006	0.602	21	22	14	9	-0.03	-0.008	-0.008	2	0.129	0.085	0.055	Light	Light	Moderate
A	HPLZ1	223	1350	100	279.5	0.632	-0.004	0.004	0.639	17	17	13	8					0.111	0.081	0.050	Light	Light	Moderate
D	HPLZ1	223	1350	100	279.5	0.594	-0.007	0.003	0.604	20	20	15	9	-0.038	-0.003	-0.001	3	0.123	0.089	0.054	Light	Light	Moderate
A	HPLZ1	231	0	150	279.5	0.659	-0.008	-0.004	0.666	17	17	13	8					0.115	0.086	0.056	Light	Light	Moderate
D	HPLZ1	231	0	150	279.5	0.643	-0.004	-0.006	0.650	19	19	13	9	-0.016	0.004	-0.002	2	0.124	0.086	0.057	Light	Light	Moderate
A	HPLZ1	232	675	150	279.5	0.666	-0.011	0.001	0.671	17	17	13	8					0.114	0.087	0.054	Light	Light	Moderate
D	HPLZ1	232	675	150	279.5	0.641	-0.006	-0.005	0.648	20	20	13	8	-0.025	0.005	-0.006	3	0.130	0.086	0.053	Light	Light	Moderate
A	HPLZ1	233	1350	150	279.5	0.666	0	0.005	0.672	17	17	13	8					0.113	0.085	0.054	Light	Light	Moderate
D	HPLZ1	233	1350	150	279.5	0.65	-0.006	-0.002	0.656	18	18	13	8	-0.016	-0.006	-0.007	1	0.119	0.083	0.053	Light	Light	Moderate
A	HPLZ1	241	0	250	279.5	0.709	-0.008	-0.001	0.713	16	16	11	9					0.112	0.081	0.064	Light	Light	Moderate
D	HPLZ1	241	0	250	279.5	0.708	-0.015	-0.003	0.713	17	17	12	8	-0.001	-0.007	-0.002	1	0.121	0.088	0.060	Light	Light	Moderate
A	HPLZ1	242	675	250	279.5	0.727	-0.008	-0.003	0.731	15	15	12	8					0.113	0.090	0.060	Light	Light	Moderate
D	HPLZ1	242	675	250	279.5	0.701	-0.013	-0.009	0.706	17	17	13	9	-0.026	-0.005	-0.006	2	0.123	0.090	0.062	Light	Light	Moderate
A	HPLZ1	243	1350	250	279.5	0.715	-0.014	0	0.719	16	16	12	8					0.112	0.084	0.060	Light	Light	Moderate
D	HPLZ1	243	1350	250	279.5	0.706	-0.008	-0.003	0.710	16	16	12	8	-0.009	0.006	-0.003	0	0.116	0.087	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	279.5	0.543	0	-0.002	0.554	19	19	15	8					0.107	0.080	0.045	Light	Light	Moderate
D	HPLZ2	301	0	25	279.5	0.511	-0.024	0.006	0.526	21	21	16	9	-0.032	-0.024	0.008	2	0.111	0.085	0.047	Light	Light	Moderate
A	HPLZ2	302	675	25	279.5	0.554	-0.007	-0.004	0.563	17	17	14	8					0.097	0.079	0.043	Light	Light	Moderate
D	HPLZ2	302	675	25	279.5	0.495	-0.017	0.002	0.511	20	21	17	9	-0.059	-0.01	0.006	3	0.106	0.089	0.048	Light	Light	Moderate
A	HPLZ2	303	1350	25	279.5	0.558	-0.009	-0.006	0.568	18	18	14	8					0.102	0.078	0.043	Light	Light	Moderate
D	HPLZ2	303	1350	25	279.5	0.498	-0.009	0.002	0.513	21	21	17	9	-0.06	0	0.008	3	0.109	0.085	0.048	Light	Light	Moderate
A	HPLZ2	311	0	50	279.5	0.587	-0.014	0.004	0.597	19	19	14	8					0.115	0.085	0.046	Light	Light	Moderate
D	HPLZ2	311	0	50	279.5	0.553	-0.02	0.004	0.565	20	20	15	10	-0.034	-0.006	0	1	0.115	0.087	0.054	Light	Light	Moderate
A	HPLZ2	312	675	50	279.5	0.604	-0.01	0.002	0.612	18	18	13	8					0.111	0.081	0.046	Light	Light	Moderate
D	HPLZ2	312	675	50	279.5	0.534	-0.009	0.002	0.548	22	22	16	10	-0.07	0.001	0	4	0.122	0.086	0.055	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ2	313	1350	50	279.5	0.585	-0.005	0.002	0.593	19	19	13	8					0.113	0.079	0.045	Light	Light	Moderate
D	HPLZ2	313	1350	50	279.5	0.536	-0.002	0.002	0.549	20	20	15	10	-0.049	0.003	0	1	0.110	0.082	0.053	Light	Light	Moderate
A	HPLZ2	321	0	100	279.5	0.62	-0.005	0.006	0.628	18	18	14	8					0.113	0.085	0.053	Light	Light	Moderate
D	HPLZ2	321	0	100	279.5	0.606	-0.012	0.002	0.617	21	21	14	10	-0.014	-0.007	-0.004	3	0.130	0.089	0.059	Light	Light	Moderate
A	HPLZ2	322	675	100	279.5	0.632	-0.006	0.006	0.639	19	19	13	8					0.120	0.083	0.051	Light	Light	Moderate
D	HPLZ2	322	675	100	279.5	0.601	-0.01	-0.001	0.611	20	20	14	9	-0.031	-0.004	-0.007	1	0.123	0.087	0.055	Light	Light	Moderate
A	HPLZ2	323	1350	100	279.5	0.642	-0.018	0.002	0.649	18	18	13	8					0.114	0.087	0.051	Light	Light	Moderate
D	HPLZ2	323	1350	100	279.5	0.594	-0.01	-0.001	0.604	19	20	14	9	-0.048	0.008	-0.003	1	0.119	0.085	0.055	Light	Light	Moderate
A	HPLZ2	331	0	150	279.5	0.664	-0.01	0.003	0.670	17	17	13	8					0.117	0.087	0.056	Light	Light	Moderate
D	HPLZ2	331	0	150	279.5	0.666	-0.014	-0.003	0.673	19	19	13	9	0.002	-0.004	-0.006	2	0.130	0.086	0.058	Light	Light	Moderate
A	HPLZ2	332	675	150	279.5	0.667	-0.006	0.001	0.673	17	17	13	8					0.113	0.087	0.055	Light	Light	Moderate
D	HPLZ2	332	675	150	279.5	0.65	-0.01	-0.005	0.657	19	19	13	9	-0.017	-0.004	-0.006	2	0.123	0.084	0.058	Light	Light	Moderate
A	HPLZ2	333	1350	150	279.5	0.671	-0.013	0.002	0.677	17	17	13	8					0.112	0.085	0.053	Light	Light	Moderate
D	HPLZ2	333	1350	150	279.5	0.66	-0.01	-0.006	0.667	18	18	13	9	-0.011	0.003	-0.008	1	0.123	0.089	0.058	Light	Light	Moderate
A	HPLZ2	341	0	250	279.5	0.714	-0.006	-0.003	0.719	17	17	13	9					0.121	0.091	0.062	Light	Light	Moderate
D	HPLZ2	341	0	250	279.5	0.716	-0.01	-0.009	0.719	16	16	12	9	0.002	-0.004	-0.006	-1	0.113	0.084	0.062	Light	Light	Moderate
A	HPLZ2	342	675	250	279.5	0.705	-0.012	-0.001	0.710	16	16	13	9					0.112	0.089	0.062	Light	Light	Moderate
D	HPLZ2	342	675	250	279.5	0.706	-0.011	-0.001	0.711	17	17	13	8	0.001	0.001	0	1	0.122	0.090	0.060	Light	Light	Moderate
A	HPLZ2	343	1350	250	279.5	0.702	-0.014	-0.002	0.706	16	16	12	9					0.113	0.082	0.060	Light	Light	Moderate
D	HPLZ2	343	1350	250	279.5	0.71	-0.011	-0.006	0.714	16	16	12	8	0.008	0.003	-0.004	0	0.115	0.087	0.058	Light	Light	Moderate
A	SLZ1	401	0	25	279.5	0.54	-0.015	0.002	0.551	18	19	15	8					0.102	0.083	0.044	Light	Light	Moderate
D	SLZ1	401	0	25	279.5	0.508	-0.009	0.004	0.522	20	21	16	9	-0.032	0.006	0.002	2	0.107	0.086	0.047	Light	Light	Moderate
A	SLZ1	402	575	25	279.5	0.417	-0.016	0.006	0.445	24	26	22	14					0.117	0.096	0.063	Light	Light	Moderate
D	SLZ1	402	575	25	279.5	0.426	-0.013	0.003	0.456	24	26	23	14	0.009	0.003	-0.003	0	0.119	0.106	0.065	Light	Light	Moderate
A	SLZ1	403	1150	25	279.5	0.532	-0.012	-0.001	0.544	20	21	15	9					0.112	0.082	0.050	Light	Light	Moderate
D	SLZ1	403	1150	25	279.5	0.53	-0.004	0.001	0.542	19	19	15	9	-0.002	0.008	0.002	-1	0.105	0.080	0.047	Light	Light	Moderate
A	SLZ1	411	0	50	279.5	0.58	-0.018	0.005	0.590	18	18	14	8					0.105	0.081	0.045	Light	Light	Moderate
D	SLZ1	411	0	50	279.5	0.563	-0.008	0.004	0.574	19	19	15	8	-0.017	0.01	-0.001	1	0.111	0.085	0.049	Light	Light	Moderate
A	SLZ1	412	575	50	279.5	0.484	-0.011	-0.008	0.506	24	26	19	13					0.130	0.096	0.063	Light	Light	Moderate
D	SLZ1	412	575	50	279.5	0.481	-0.013	-0.003	0.504	23	25	19	13	-0.003	-0.002	0.005	-1	0.126	0.096	0.067	Light	Light	Moderate
A	SLZ1	413	1150	50	279.5	0.573	-0.007	0.001	0.583	19	20	14	8					0.114	0.084	0.048	Light	Light	Moderate
D	SLZ1	413	1150	50	279.5	0.6	-0.001	-0.002	0.608	18	18	13	8	0.027	0.006	-0.003	-1	0.108	0.081	0.047	Light	Light	Moderate
A	SLZ1	421	0	100	279.5	0.634	-0.015	0.007	0.641	17	17	12	8					0.110	0.080	0.049	Light	Light	Moderate
D	SLZ1	421	0	100	279.5	0.604	-0.011	0.008	0.612	20	20	13	8	-0.03	0.004	0.001	3	0.123	0.078	0.051	Light	Light	Moderate
A	SLZ1	422	575	100	279.5	0.617	-0.007	-0.015	0.626	20	20	14	8					0.124	0.086	0.052	Light	Light	Moderate
D	SLZ1	422	575	100	279.5	0.592	-0.006	-0.012	0.602	21	22	14	9	-0.025	0.001	0.003	1	0.130	0.083	0.053	Light	Light	Moderate
A	SLZ1	423	1150	100	279.5	0.645	-0.003	0.002	0.651	17	17	12	8					0.113	0.080	0.052	Light	Light	Moderate
D	SLZ1	423	1150	100	279.5	0.632	-0.002	0.002	0.638	18	18	12	8	-0.013	0.001	0	1	0.114	0.077	0.050	Light	Light	Moderate
A	SLZ1	431	0	150	279.5	0.668	-0.018	0.003	0.673	17	16	12	8					0.111	0.080	0.053	Light	Light	Moderate
D	SLZ1	431	0	150	279.5	0.666	-0.014	0.007	0.672	17	17	13	8	-0.002	0.004	0.004	0	0.113	0.084	0.053	Light	Light	Moderate
A	SLZ1	432	575	150	279.5	0.657	-0.006	-0.005	0.662	17	17	12	8					0.112	0.082	0.052	Light	Light	Moderate
D	SLZ1	432	575	150	279.5	0.66	-0.01	-0.004	0.666	18	18	13	8	0.003	-0.004	0.001	1	0.118	0.085	0.051	Light	Light	Moderate
A	SLZ1	433	1150	150	279.5	0.669	-0.007	0.003	0.674	16	16	12	8					0.108	0.082	0.054	Light	Light	Moderate
D	SLZ1	433	1150	150	279.5	0.67	-0.005	0.005	0.676	16	16	12	8	0.001	0.002	0.002	0	0.106	0.082	0.055	Light	Light	Moderate
A	SLZ1	441	0	250	279.5	0.704	-0.015	0.004	0.709	16	16	12	9					0.114	0.088	0.062	Light	Light	Moderate
D	SLZ1	441	0	250	279.5	0.696	-0.017	0.003	0.701	16	16	12	8	-0.008	-0.002	-0.001	0	0.110	0.081	0.058	Light	Light	Moderate
A	SLZ1	442	575	250	279.5	0.686	-0.012	-0.004	0.690	16	16	12	8					0.107	0.080	0.058	Light	Light	Moderate
D	SLZ1	442	575	250	279.5	0.698	-0.013	-0.001	0.703	16	16	12	9	0.012	-0.001	0.003	0	0.111	0.086	0.060	Light	Light	Moderate
A	SLZ1	443	1150	250	279.5	0.701	-0.004	0	0.705	16	16	11	9					0.111	0.081	0.062	Light	Light	Moderate
D	SLZ1	443	1150	250	279.5	0.699	-0.012	0.003	0.704	16	16	12	9	-0.002	-0.008	0.003	0	0.112	0.082	0.063	Light	Light	Moderate
A	SLZ2	501	0	25	279.5	0.513	-0.01	-0.003	0.525	19	20	14	9					0.103	0.073	0.047	Light	Light	Moderate
D	SLZ2	501	0	25	279.5	0.486	-0.012	0.002	0.502	21	22	16	10	-0.027	-0.002	0.005	2	0.109	0.078	0.050	Light	Light	Moderate
A	SLZ2	502	575	25	279.5	0.52	-0.009	-0.003	0.533	19	20	15	9					0.106	0.083	0.049	Light	Light	Moderate
D	SLZ2	502	575	25	279.5	0.514	-0.012	-0.001	0.527	19	20	15	10	-0.006	-0.003	0.002	0	0.105	0.080	0.051	Light	Light	Moderate
A	SLZ2	503	1150	25	279.5	0.53	-0.012	0.002	0.543	20	21	15	9					0.112	0.083	0.049	Light	Light	Moderate
D	SLZ2	503	1150	25	279.5	0.523	-0.002	0.005	0.536	19	20	14	9	-0.007	0.01	0.003	-1	0.106	0.077	0.047	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ2	511	0	50	279.5	0.579	-0.008	0	0.587	18	18	13	7					0.106	0.076	0.044	Light	Light	Moderate
D	SLZ2	511	0	50	279.5	0.557	-0.006	-0.001	0.567	20	20	14	8	-0.022	0.002	-0.001	2	0.113	0.077	0.048	Light	Light	Moderate
A	SLZ2	512	575	50	279.5	0.551	-0.007	-0.005	0.563	20	20	15	9					0.112	0.084	0.053	Light	Light	Moderate
D	SLZ2	512	575	50	279.5	0.553	-0.018	-0.003	0.565	19	19	14	9	0.002	-0.011	0.002	-1	0.110	0.079	0.052	Light	Light	Moderate
A	SLZ2	513	1150	50	279.5	0.57	-0.005	0.001	0.580	19	20	14	9					0.115	0.080	0.049	Light	Light	Moderate
D	SLZ2	513	1150	50	279.5	0.569	-0.002	0.004	0.579	20	21	14	9	-0.001	0.003	0.003	1	0.120	0.081	0.051	Light	Light	Moderate
A	SLZ2	521	0	100	279.5	0.626	-0.011	0.003	0.632	17	17	13	8					0.106	0.081	0.051	Light	Light	Moderate
D	SLZ2	521	0	100	279.5	0.609	-0.006	-0.002	0.617	18	19	14	8	-0.017	0.005	-0.005	1	0.114	0.084	0.052	Light	Light	Moderate
A	SLZ2	522	575	100	279.5	0.603	-0.013	-0.004	0.613	19	19	14	8					0.116	0.089	0.052	Light	Light	Moderate
D	SLZ2	522	575	100	279.5	0.618	-0.012	-0.005	0.626	18	18	13	8	0.015	0.001	-0.001	-1	0.113	0.084	0.051	Light	Light	Moderate
A	SLZ2	523	1150	100	279.5	0.625	0	0	0.633	18	18	13	8					0.114	0.083	0.051	Light	Light	Moderate
D	SLZ2	523	1150	100	279.5	0.629	-0.004	0.006	0.636	18	18	13	8	0.004	-0.004	0.006	0	0.115	0.084	0.053	Light	Light	Moderate
A	SLZ2	531	0	150	279.5	0.658	-0.005	0.005	0.664	17	17	13	8					0.110	0.087	0.054	Light	Light	Moderate
D	SLZ2	531	0	150	279.5	0.637	-0.009	0.004	0.644	17	17	13	8	-0.021	-0.004	-0.001	0	0.112	0.081	0.054	Light	Light	Moderate
A	SLZ2	532	575	150	279.5	0.656	-0.008	-0.004	0.663	17	17	13	8					0.110	0.087	0.054	Light	Light	Moderate
D	SLZ2	532	575	150	279.5	0.669	-0.012	-0.005	0.675	17	17	13	8	0.013	-0.004	-0.001	0	0.114	0.089	0.054	Light	Light	Moderate
A	SLZ2	533	1150	150	279.5	0.662	-0.006	0.001	0.668	17	17	13	8					0.111	0.086	0.054	Light	Light	Moderate
D	SLZ2	533	1150	150	279.5	0.681	-0.002	0.002	0.685	16	16	12	8	0.019	0.004	0.001	-1	0.111	0.082	0.055	Light	Light	Moderate
A	SLZ2	541	0	250	279.5	0.701	-0.018	0	0.706	16	16	12	8					0.113	0.085	0.060	Light	Light	Moderate
D	SLZ2	541	0	250	279.5	0.701	-0.008	-0.002	0.706	16	16	12	9	0	0.01	-0.002	0	0.114	0.087	0.063	Light	Light	Moderate
A	SLZ2	542	575	250	279.5	0.703	-0.005	-0.002	0.708	15	15	12	9					0.105	0.084	0.062	Light	Light	Moderate
D	SLZ2	542	575	250	279.5	0.701	-0.005	0.002	0.705	15	15	11	9	-0.002	0	0.004	0	0.107	0.080	0.062	Light	Light	Moderate
A	SLZ2	543	1150	250	279.5	0.695	-0.014	0	0.700	16	16	12	9					0.111	0.084	0.062	Light	Light	Moderate
D	SLZ2	543	1150	250	279.5	0.704	-0.005	0.004	0.709	15	15	12	9	0.009	0.009	0.004	-1	0.109	0.086	0.063	Light	Light	Moderate
A	Runway	101	0	25	302	0.523	-0.013	0.002	0.536	21	21	15	10					0.113	0.082	0.051	Light	Light	Moderate
D	Runway	101	0	25	302	0.534	-0.014	0.006	0.547	19	19	15	9	0.011	-0.001	0.004	-2	0.106	0.084	0.050	Light	Light	Moderate
A	Runway	102	695	25	302	0.522	-0.011	0.007	0.534	20	21	15	9					0.110	0.081	0.047	Light	Light	Moderate
D	Runway	102	695	25	302	0.523	-0.024	0.011	0.536	19	20	15	9	0.001	-0.013	0.004	-1	0.105	0.081	0.047	Light	Light	Moderate
A	Runway	103	1389	25	302	0.53	-0.009	0.007	0.542	19	19	15	8					0.103	0.084	0.045	Light	Light	Moderate
D	Runway	103	1389	25	302	0.525	-0.04	0.002	0.538	19	20	14	9	-0.005	-0.031	-0.005	0	0.105	0.075	0.049	Light	Light	Moderate
A	Runway	104	2064	25	302	0.513	-0.003	0.005	0.525	20	20	15	8					0.105	0.080	0.044	Light	Light	Moderate
D	Runway	104	2064	25	302	0.456	-0.035	0.01	0.478	22	23	20	11	-0.057	-0.032	0.005	2	0.109	0.094	0.051	Light	Light	Moderate
A	Runway	105	2739	25	302	0.536	0.002	0.005	0.547	19	19	15	8					0.105	0.081	0.044	Light	Light	Moderate
D	Runway	105	2739	25	302	0.472	-0.036	0.004	0.492	21	22	18	11	-0.064	-0.038	-0.001	2	0.107	0.088	0.052	Light	Light	Moderate
A	Runway	106	3300	25	302	0.54	-0.009	0.002	0.551	18	18	15	8					0.100	0.081	0.043	Light	Light	Light
D	Runway	106	3300	25	302	0.461	-0.031	0.008	0.482	22	23	18	11	-0.079	-0.022	0.006	4	0.113	0.088	0.053	Light	Light	Moderate
A	Runway	107	3875	25	302	0.454	-0.041	-0.007	0.476	23	24	17	13					0.114	0.083	0.061	Light	Light	Moderate
D	Runway	107	3875	25	302	0.44	-0.043	-0.006	0.465	23	25	18	13	-0.014	-0.002	0.001	0	0.117	0.084	0.061	Light	Light	Moderate
A	Runway	108	4450	25	302	0.455	-0.029	-0.001	0.479	23	25	20	12					0.119	0.098	0.060	Light	Light	Moderate
D	Runway	108	4450	25	302	0.467	-0.039	-0.001	0.490	23	24	20	12	0.012	-0.01	0	0	0.118	0.097	0.058	Light	Light	Moderate
A	Runway	111	0	50	302	0.557	-0.021	0.004	0.569	20	20	15	9					0.112	0.083	0.054	Light	Light	Moderate
D	Runway	111	0	50	302	0.579	-0.014	-0.002	0.589	19	19	15	9	0.022	0.007	-0.006	-1	0.111	0.086	0.053	Light	Light	Moderate
A	Runway	112	695	50	302	0.551	-0.012	0.008	0.563	19	20	15	9					0.111	0.083	0.052	Light	Light	Moderate
D	Runway	112	695	50	302	0.554	-0.016	0.009	0.566	19	19	15	9	0.003	-0.004	0.001	0	0.110	0.083	0.051	Light	Light	Moderate
A	Runway	113	1389	50	302	0.557	-0.012	0.009	0.567	19	19	14	8					0.107	0.079	0.048	Light	Light	Moderate
D	Runway	113	1389	50	302	0.572	-0.037	-0.003	0.582	19	20	14	9	0.015	-0.025	-0.012	0	0.114	0.079	0.051	Light	Light	Moderate
A	Runway	114	2064	50	302	0.565	-0.001	0.009	0.576	19	19	15	8					0.111	0.089	0.048	Light	Light	Moderate
D	Runway	114	2064	50	302	0.518	-0.032	0.001	0.535	22	23	17	10	-0.047	-0.031	-0.008	3	0.123	0.089	0.055	Light	Light	Moderate
A	Runway	115	2739	50	302	0.577	-0.002	0.007	0.586	18	18	14	8					0.108	0.081	0.048	Light	Light	Moderate
D	Runway	115	2739	50	302	0.518	-0.035	0.002	0.534	20	21	16	10	-0.059	-0.033	-0.005	2	0.113	0.084	0.054	Light	Light	Moderate
A	Runway	116	3300	50	302	0.589	-0.012	0.004	0.598	18	18	14	8					0.109	0.085	0.047	Light	Light	Moderate
D	Runway	116	3300	50	302	0.507	-0.029	0.008	0.525	23	24	17	11	-0.082	-0.017	0.004	5	0.124	0.092	0.057	Light	Light	Moderate
A	Runway	117	3875	50	302	0.519	-0.023	-0.019	0.535	21	22	16	11					0.117	0.086	0.058	Light	Light	Moderate
D	Runway	117	3875	50	302	0.499	-0.027	-0.019	0.516	22	23	16	11	-0.02	-0.004	0	1	0.116	0.083	0.056	Light	Light	Moderate
A	Runway	118	4450	50	302	0.496	-0.022	-0.006	0.516	23	24	19	12					0.123	0.096	0.062	Light	Light	Moderate
D	Runway	118	4450	50	302	0.507	-0.016	-0.008	0.525	24	25	17	12	0.011	0.006	-0.002	1	0.132	0.091	0.061	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	121	0	100	302	0.643	-0.013	-0.001	0.651	19	19	14	9					0.125	0.089	0.057	Light	Light	Moderate
D	Runway	121	0	100	302	0.636	-0.011	0.005	0.644	19	19	14	8	-0.007	0.002	0.006	0	0.124	0.088	0.054	Light	Light	Moderate
A	Runway	122	695	100	302	0.6	-0.009	0.006	0.610	19	19	14	9					0.119	0.087	0.057	Light	Light	Moderate
D	Runway	122	695	100	302	0.616	-0.019	0.003	0.626	18	18	14	9	0.016	-0.01	-0.003	-1	0.115	0.086	0.057	Light	Light	Moderate
A	Runway	123	1389	100	302	0.62	-0.012	0.005	0.627	19	19	13	9					0.119	0.082	0.054	Light	Light	Moderate
D	Runway	123	1389	100	302	0.632	-0.026	-0.007	0.640	18	18	14	8	0.012	-0.014	-0.012	-1	0.116	0.087	0.053	Light	Light	Moderate
A	Runway	124	2064	100	302	0.615	-0.01	0.008	0.623	19	19	13	9					0.118	0.081	0.053	Light	Light	Moderate
D	Runway	124	2064	100	302	0.58	-0.023	-0.002	0.591	22	22	14	10	-0.035	-0.013	-0.01	3	0.131	0.084	0.056	Light	Light	Moderate
A	Runway	125	2739	100	302	0.611	-0.003	0.003	0.619	17	18	13	9					0.110	0.080	0.055	Light	Light	Moderate
D	Runway	125	2739	100	302	0.582	-0.016	-0.004	0.594	21	21	15	9	-0.029	-0.013	-0.007	-4	0.125	0.089	0.054	Light	Light	Moderate
A	Runway	126	3300	100	302	0.616	-0.01	0.004	0.625	18	18	14	9					0.113	0.086	0.053	Light	Light	Moderate
D	Runway	126	3300	100	302	0.563	-0.018	0.002	0.576	22	22	16	10	-0.053	-0.008	-0.002	4	0.129	0.090	0.058	Light	Light	Moderate
A	Runway	127	3875	100	302	0.61	-0.017	-0.019	0.619	18	18	13	8					0.113	0.080	0.052	Light	Light	Moderate
D	Runway	127	3875	100	302	0.578	-0.014	-0.014	0.590	22	22	15	10	-0.032	0.003	0.005	4	0.131	0.090	0.057	Light	Light	Moderate
A	Runway	128	4450	100	302	0.601	-0.005	-0.008	0.611	20	21	15	9					0.125	0.089	0.056	Light	Light	Moderate
D	Runway	128	4450	100	302	0.598	0.001	-0.011	0.609	20	20	15	9	-0.003	0.006	-0.003	0	0.124	0.088	0.055	Light	Light	Moderate
A	Runway	131	0	150	302	0.683	-0.014	0.002	0.688	17	18	13	8					0.121	0.088	0.055	Light	Light	Moderate
D	Runway	131	0	150	302	0.688	-0.007	0.004	0.694	17	17	12	8	0.005	0.007	0.002	0	0.121	0.086	0.056	Light	Light	Moderate
A	Runway	132	695	150	302	0.661	-0.004	0.003	0.668	18	18	13	9					0.118	0.088	0.058	Light	Light	Moderate
D	Runway	132	695	150	302	0.676	-0.022	0.003	0.682	17	17	13	8	0.015	-0.018	0	-1	0.117	0.087	0.057	Light	Light	Moderate
A	Runway	133	1389	150	302	0.669	-0.006	0.002	0.675	17	17	13	8					0.116	0.086	0.055	Light	Light	Moderate
D	Runway	133	1389	150	302	0.661	-0.018	-0.009	0.667	17	17	13	8	-0.008	-0.012	-0.011	0	0.112	0.086	0.053	Light	Light	Moderate
A	Runway	134	2064	150	302	0.646	-0.005	0.005	0.653	17	17	13	9					0.112	0.087	0.058	Light	Light	Moderate
D	Runway	134	2064	150	302	0.652	-0.013	-0.006	0.659	18	18	14	8	0.006	-0.008	-0.011	1	0.120	0.090	0.054	Light	Light	Moderate
A	Runway	135	2739	150	302	0.645	-0.009	0.003	0.652	18	18	13	9					0.117	0.084	0.058	Light	Light	Moderate
D	Runway	135	2739	150	302	0.63	-0.012	-0.002	0.639	19	19	14	9	-0.015	-0.003	-0.005	1	0.121	0.092	0.055	Light	Light	Moderate
A	Runway	136	3300	150	302	0.637	-0.008	0.002	0.645	17	18	13	9					0.113	0.083	0.060	Light	Light	Moderate
D	Runway	136	3300	150	302	0.633	-0.014	0	0.643	19	20	14	10	-0.004	-0.006	-0.002	2	0.126	0.090	0.061	Light	Light	Moderate
A	Runway	137	3875	150	302	0.645	-0.013	-0.016	0.652	18	18	13	9					0.120	0.085	0.057	Light	Light	Moderate
D	Runway	137	3875	150	302	0.637	-0.015	-0.018	0.645	18	19	13	9	-0.008	-0.002	-0.002	0	0.120	0.087	0.057	Light	Light	Moderate
A	Runway	138	4450	150	302	0.653	0	-0.003	0.660	18	18	13	9					0.118	0.089	0.056	Light	Light	Moderate
D	Runway	138	4450	150	302	0.641	-0.009	-0.001	0.648	18	18	13	9	-0.012	-0.009	0.002	0	0.120	0.086	0.057	Light	Light	Moderate
A	Runway	141	0	250	302	0.74	-0.011	-0.002	0.744	15	15	12	9					0.112	0.092	0.065	Light	Light	Moderate
D	Runway	141	0	250	302	0.72	-0.008	0.008	0.725	17	17	13	9	-0.02	0.003	0.01	2	0.126	0.092	0.063	Light	Light	Moderate
A	Runway	142	695	250	302	0.731	-0.008	0.003	0.736	15	15	13	9					0.112	0.096	0.063	Light	Light	Moderate
D	Runway	142	695	250	302	0.726	-0.018	0.001	0.731	17	17	13	9	-0.005	-0.01	-0.002	2	0.121	0.093	0.065	Light	Light	Moderate
A	Runway	143	1389	250	302	0.691	-0.009	0.008	0.697	16	16	13	9					0.113	0.091	0.062	Light	Light	Moderate
D	Runway	143	1389	250	302	0.71	-0.02	-0.005	0.715	16	16	12	8	0.019	-0.011	-0.013	0	0.114	0.089	0.061	Light	Light	Moderate
A	Runway	144	2064	250	302	0.694	-0.012	0.006	0.700	16	16	13	9					0.114	0.094	0.062	Light	Light	Moderate
D	Runway	144	2064	250	302	0.691	-0.003	-0.005	0.697	16	16	13	9	-0.003	0.009	-0.011	0	0.115	0.089	0.061	Light	Light	Moderate
A	Runway	145	2739	250	302	0.7	-0.009	-0.001	0.705	16	16	12	9					0.111	0.086	0.063	Light	Light	Moderate
D	Runway	145	2739	250	302	0.682	-0.012	-0.002	0.688	17	17	13	9	-0.018	-0.003	-0.001	1	0.116	0.087	0.061	Light	Light	Moderate
A	Runway	146	3300	250	302	0.697	-0.012	-0.001	0.702	16	17	12	9					0.116	0.084	0.062	Light	Light	Moderate
D	Runway	146	3300	250	302	0.682	-0.013	-0.003	0.688	17	18	12	9	-0.015	-0.001	-0.002	1	0.120	0.086	0.063	Light	Light	Moderate
A	Runway	147	3875	250	302	0.699	-0.014	-0.012	0.704	16	16	12	8					0.114	0.084	0.059	Light	Light	Moderate
D	Runway	147	3875	250	302	0.682	-0.014	-0.005	0.687	16	16	13	9	-0.017	0	0.007	0	0.108	0.086	0.061	Light	Light	Moderate
A	Runway	148	4450	250	302	0.69	-0.007	-0.003	0.695	16	16	13	9					0.108	0.088	0.060	Light	Light	Moderate
D	Runway	148	4450	250	302	0.704	-0.011	0	0.709	16	16	12	9	0.014	-0.004	0.003	0	0.114	0.087	0.063	Light	Light	Moderate
A	HPLZ1	201	0	25	302	0.533	-0.011	-0.006	0.545	19	19	15	8					0.104	0.084	0.046	Light	Light	Moderate
D	HPLZ1	201	0	25	302	0.545	-0.002	-0.007	0.555	19	19	12	8	0.012	0.009	-0.001	0	0.104	0.066	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	302	0.514	-0.005	0	0.527	19	19	16	9					0.102	0.085	0.045	Light	Light	Moderate
D	HPLZ1	202	675	25	302	0.513	-0.029	0.001	0.528	20	21	16	9	-0.001	-0.024	0.001	1	0.109	0.086	0.045	Light	Light	Moderate
A	HPLZ1	203	1350	25	302	0.543	0.011	0.003	0.555	20	20	16	8					0.110	0.087	0.044	Light	Light	Moderate
D	HPLZ1	203	1350	25	302	0.483	-0.018	0.008	0.499	21	22	17	10	-0.06	-0.029	0.005	1	0.108	0.085	0.048	Light	Light	Moderate
A	HPLZ1	211	0	50	302	0.579	-0.013	-0.001	0.589	19	19	14	8					0.113	0.085	0.048	Light	Light	Moderate
D	HPLZ1	211	0	50	302	0.586	-0.01	-0.004	0.596	20	20	14	9	0.007	0.003	-0.003	1	0.120	0.083	0.051	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ1	212	675	50	302	0.571	-0.007	0.005	0.582	18	18	15	8					0.106	0.086	0.048	Light	Light	Moderate
D	HPLZ1	212	675	50	302	0.546	-0.033	0.003	0.558	20	20	15	9	-0.025	-0.026	-0.002	2	0.110	0.084	0.049	Light	Light	Moderate
A	HPLZ1	213	1350	50	302	0.572	0.011	0.012	0.583	18	18	14	8					0.107	0.083	0.048	Light	Light	Moderate
D	HPLZ1	213	1350	50	302	0.543	-0.022	0.01	0.556	19	19	15	9	-0.029	-0.033	-0.002	1	0.104	0.083	0.051	Light	Light	Moderate
A	HPLZ1	221	0	100	302	0.623	-0.009	-0.001	0.632	18	18	14	9					0.112	0.088	0.054	Light	Light	Moderate
D	HPLZ1	221	0	100	302	0.626	-0.018	-0.004	0.634	18	18	14	9	0.003	-0.009	-0.003	0	0.117	0.086	0.054	Light	Light	Moderate
A	HPLZ1	222	675	100	302	0.613	-0.014	0.007	0.622	18	19	14	9					0.115	0.088	0.053	Light	Light	Moderate
D	HPLZ1	222	675	100	302	0.612	-0.027	0.001	0.622	19	19	15	8	-0.001	-0.013	-0.006	1	0.117	0.090	0.053	Light	Light	Moderate
A	HPLZ1	223	1350	100	302	0.628	0.002	0.008	0.636	17	17	14	8					0.110	0.088	0.052	Light	Light	Moderate
D	HPLZ1	223	1350	100	302	0.601	-0.019	0.009	0.611	19	19	14	9	-0.027	-0.021	0.001	2	0.115	0.086	0.054	Light	Light	Moderate
A	HPLZ1	231	0	150	302	0.665	-0.01	-0.002	0.671	17	17	13	8					0.115	0.087	0.055	Light	Light	Moderate
D	HPLZ1	231	0	150	302	0.66	-0.02	-0.003	0.667	17	17	13	8	-0.005	-0.01	-0.001	0	0.112	0.086	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	302	0.643	-0.01	0.005	0.650	17	17	13	9					0.112	0.082	0.057	Light	Light	Moderate
D	HPLZ1	232	675	150	302	0.65	-0.015	0.001	0.658	18	18	13	9	0.007	-0.005	-0.004	1	0.120	0.088	0.056	Light	Light	Moderate
A	HPLZ1	233	1350	150	302	0.642	-0.005	0.008	0.650	18	18	14	9					0.115	0.090	0.058	Light	Light	Moderate
D	HPLZ1	233	1350	150	302	0.644	-0.011	0.005	0.652	19	19	13	9	0.002	-0.006	-0.003	1	0.126	0.086	0.057	Light	Light	Moderate
A	HPLZ1	241	0	250	302	0.714	-0.013	-0.002	0.718	16	16	12	9					0.117	0.085	0.065	Light	Light	Moderate
D	HPLZ1	241	0	250	302	0.719	-0.016	-0.004	0.723	15	15	13	9	0.005	-0.003	-0.002	-1	0.112	0.092	0.062	Light	Light	Moderate
A	HPLZ1	242	675	250	302	0.697	-0.012	0.005	0.702	17	17	13	9					0.120	0.088	0.061	Light	Light	Moderate
D	HPLZ1	242	675	250	302	0.698	-0.012	-0.004	0.703	16	17	12	8	0.001	0	-0.009	-1	0.116	0.087	0.059	Light	Light	Moderate
A	HPLZ1	243	1350	250	302	0.718	-0.016	0.001	0.723	16	16	13	9					0.118	0.092	0.063	Light	Light	Moderate
D	HPLZ1	243	1350	250	302	0.702	-0.008	-0.001	0.708	17	17	13	9	-0.016	0.008	-0.002	1	0.120	0.090	0.063	Light	Light	Moderate
A	HPLZ2	301	0	25	302	0.547	-0.003	0.002	0.557	19	19	14	8					0.104	0.080	0.047	Light	Light	Moderate
D	HPLZ2	301	0	25	302	0.482	-0.002	-0.004	0.501	24	24	19	10	-0.065	0.001	-0.006	5	0.121	0.095	0.051	Light	Light	Moderate
A	HPLZ2	302	675	25	302	0.546	-0.009	0.003	0.556	18	18	14	8					0.102	0.078	0.047	Light	Light	Moderate
D	HPLZ2	302	675	25	302	0.568	-0.023	0	0.578	19	19	14	8	0.022	-0.014	-0.003	1	0.111	0.078	0.043	Light	Light	Moderate
A	HPLZ2	303	1350	25	302	0.55	-0.001	-0.005	0.560	19	19	14	8					0.106	0.079	0.044	Light	Light	Moderate
D	HPLZ2	303	1350	25	302	0.535	-0.022	-0.003	0.548	19	19	16	8	-0.015	-0.021	0.002	0	0.105	0.087	0.045	Light	Light	Moderate
A	HPLZ2	311	0	50	302	0.577	-0.02	0.006	0.587	18	18	14	9					0.107	0.082	0.050	Light	Light	Moderate
D	HPLZ2	311	0	50	302	0.564	0.002	0.005	0.575	21	21	15	9	-0.013	0.022	-0.001	3	0.121	0.086	0.052	Light	Light	Moderate
A	HPLZ2	312	675	50	302	0.598	-0.013	0.007	0.607	17	17	14	8					0.105	0.084	0.047	Light	Light	Moderate
D	HPLZ2	312	675	50	302	0.608	-0.025	0.002	0.616	17	17	13	8	0.01	-0.012	-0.005	0	0.105	0.077	0.047	Light	Light	Moderate
A	HPLZ2	313	1350	50	302	0.589	-0.001	0.002	0.597	19	19	14	8					0.113	0.083	0.047	Light	Light	Moderate
D	HPLZ2	313	1350	50	302	0.558	-0.019	0.003	0.571	20	20	15	9	-0.031	-0.018	0.001	1	0.114	0.087	0.051	Light	Light	Moderate
A	HPLZ2	321	0	100	302	0.624	-0.015	0.003	0.632	18	18	13	9					0.112	0.083	0.056	Light	Light	Moderate
D	HPLZ2	321	0	100	302	0.619	-0.003	0.009	0.628	19	19	14	9	-0.005	0.012	0.006	1	0.122	0.090	0.055	Light	Light	Moderate
A	HPLZ2	322	675	100	302	0.635	-0.009	0.006	0.641	17	17	13	8					0.107	0.080	0.053	Light	Light	Moderate
D	HPLZ2	322	675	100	302	0.641	-0.01	0	0.648	18	18	12	8	0.006	-0.001	-0.006	1	0.114	0.079	0.053	Light	Light	Moderate
A	HPLZ2	323	1350	100	302	0.628	-0.008	0.004	0.635	17	17	13	8					0.108	0.084	0.052	Light	Light	Moderate
D	HPLZ2	323	1350	100	302	0.608	-0.014	0.002	0.617	19	19	14	9	-0.02	-0.006	-0.002	2	0.117	0.087	0.054	Light	Light	Moderate
A	HPLZ2	331	0	150	302	0.658	-0.014	0.002	0.665	18	18	14	9					0.118	0.091	0.060	Light	Light	Moderate
D	HPLZ2	331	0	150	302	0.649	-0.016	0.004	0.655	18	18	13	8	-0.009	-0.002	0.002	0	0.120	0.083	0.055	Light	Light	Moderate
A	HPLZ2	332	675	150	302	0.653	-0.008	0.006	0.660	18	18	12	9					0.119	0.082	0.056	Light	Light	Moderate
D	HPLZ2	332	675	150	302	0.677	-0.017	-0.004	0.682	17	17	12	8	0.024	-0.009	-0.01	-1	0.115	0.084	0.054	Light	Light	Moderate
A	HPLZ2	333	1350	150	302	0.665	-0.015	0	0.671	19	19	13	9					0.125	0.088	0.058	Light	Light	Moderate
D	HPLZ2	333	1350	150	302	0.639	-0.013	0.002	0.646	18	18	13	9	-0.026	0.002	0.002	-1	0.118	0.083	0.056	Light	Light	Moderate
A	HPLZ2	341	0	250	302	0.717	-0.015	0	0.722	16	16	13	8					0.117	0.090	0.061	Light	Light	Moderate
D	HPLZ2	341	0	250	302	0.717	-0.019	0	0.721	17	17	12	8	0	-0.004	0	1	0.120	0.086	0.061	Light	Light	Moderate
A	HPLZ2	342	675	250	302	0.709	-0.01	0.003	0.713	16	16	12	9					0.111	0.087	0.062	Light	Light	Moderate
D	HPLZ2	342	675	250	302	0.719	-0.022	-0.004	0.724	16	16	12	8	0.01	-0.012	-0.007	0	0.114	0.088	0.058	Light	Light	Moderate
A	HPLZ2	343	1350	250	302	0.697	-0.009	0.005	0.702	16	16	13	9					0.116	0.088	0.064	Light	Light	Moderate
D	HPLZ2	343	1350	250	302	0.7	-0.013	-0.002	0.704	16	16	12	9	0.003	-0.004	-0.007	0	0.116	0.085	0.060	Light	Light	Moderate
A	SLZ1	401	0	25	302	0.526	-0.008	-0.001	0.537	19	19	14	9					0.101	0.076	0.046	Light	Light	Moderate
D	SLZ1	401	0	25	302	0.506	-0.033	0.004	0.522	21	21	17	9	-0.02	-0.025	0.005	2	0.112	0.089	0.049	Light	Light	Moderate
A	SLZ1	402	575	25	302	0.518	-0.009	0.004	0.532	19	19	16	9					0.103	0.083	0.049	Light	Light	Moderate
D	SLZ1	402	575	25	302	0.487	-0.01	0.004	0.505	22	23	18	10	-0.031	-0.001	0	3	0.115	0.090	0.050	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ1	403	1150	25	302	0.481	-0.025	0.004	0.498	20	20	17	11					0.102	0.083	0.054	Light	Light	Moderate
D	SLZ1	403	1150	25	302	0.496	-0.03	0	0.513	22	22	16	11	0.015	-0.005	-0.004	2	0.115	0.083	0.056	Light	Light	Moderate
A	SLZ1	411	0	50	302	0.577	-0.001	0.005	0.586	18	18	13	8					0.104	0.078	0.048	Light	Light	Moderate
D	SLZ1	411	0	50	302	0.539	-0.026	0.002	0.553	21	22	15	9	-0.038	-0.025	-0.003	3	0.119	0.083	0.050	Light	Light	Moderate
A	SLZ1	412	575	50	302	0.565	-0.013	-0.001	0.576	20	20	14	9					0.118	0.082	0.050	Light	Light	Moderate
D	SLZ1	412	575	50	302	0.534	-0.016	0.004	0.549	20	21	16	10	-0.031	-0.003	0.005	0	0.116	0.089	0.053	Light	Light	Moderate
A	SLZ1	413	1150	50	302	0.543	-0.022	-0.006	0.556	20	20	16	10					0.113	0.087	0.056	Light	Light	Moderate
D	SLZ1	413	1150	50	302	0.533	-0.025	-0.006	0.547	21	21	15	10	-0.01	-0.003	0	1	0.116	0.084	0.056	Light	Light	Moderate
A	SLZ1	421	0	100	302	0.625	-0.006	0.002	0.633	18	18	13	9					0.113	0.084	0.056	Light	Light	Moderate
D	SLZ1	421	0	100	302	0.597	-0.018	-0.001	0.608	21	21	14	9	-0.028	-0.012	-0.003	3	0.127	0.085	0.057	Light	Light	Moderate
A	SLZ1	422	575	100	302	0.623	-0.012	-0.001	0.630	17	17	12	9					0.109	0.078	0.054	Light	Light	Moderate
D	SLZ1	422	575	100	302	0.58	-0.024	0.002	0.592	20	21	14	10	-0.043	-0.012	0.003	3	0.124	0.084	0.059	Light	Light	Moderate
A	SLZ1	423	1150	100	302	0.604	-0.009	-0.01	0.614	19	19	14	9					0.119	0.085	0.055	Light	Light	Moderate
D	SLZ1	423	1150	100	302	0.602	-0.01	-0.008	0.612	19	20	13	9	-0.002	-0.001	0.002	0	0.120	0.082	0.057	Light	Light	Moderate
A	SLZ1	431	0	150	302	0.655	-0.007	0	0.661	18	18	13	9					0.119	0.085	0.057	Light	Light	Moderate
D	SLZ1	431	0	150	302	0.638	-0.015	-0.005	0.646	19	19	13	9	-0.017	-0.008	-0.005	1	0.124	0.083	0.059	Light	Light	Moderate
A	SLZ1	432	575	150	302	0.647	-0.015	-0.001	0.653	17	17	13	9					0.113	0.082	0.056	Light	Light	Moderate
D	SLZ1	432	575	150	302	0.625	-0.018	-0.001	0.633	19	19	14	9	-0.022	-0.003	0	2	0.121	0.086	0.057	Light	Light	Moderate
A	SLZ1	433	1150	150	302	0.648	-0.01	-0.006	0.655	17	18	13	8					0.115	0.088	0.055	Light	Light	Moderate
D	SLZ1	433	1150	150	302	0.651	-0.014	-0.007	0.659	18	18	13	8	0.003	-0.004	-0.001	1	0.120	0.087	0.055	Light	Light	Moderate
A	SLZ1	441	0	250	302	0.697	-0.016	-0.002	0.702	16	16	12	9					0.111	0.082	0.063	Light	Light	Moderate
D	SLZ1	441	0	250	302	0.688	-0.013	-0.002	0.693	17	17	13	9	-0.009	0.003	0	1	0.117	0.090	0.059	Light	Light	Moderate
A	SLZ1	442	575	250	302	0.689	-0.017	-0.003	0.694	16	17	12	9					0.115	0.086	0.061	Light	Light	Moderate
D	SLZ1	442	575	250	302	0.693	-0.011	-0.005	0.699	17	17	13	9	0.004	0.006	-0.002	1	0.118	0.090	0.060	Light	Light	Moderate
A	SLZ1	443	1150	250	302	0.705	-0.013	-0.005	0.710	15	15	12	9					0.109	0.087	0.063	Light	Light	Moderate
D	SLZ1	443	1150	250	302	0.699	-0.011	-0.003	0.704	16	16	12	9	-0.006	0.002	0.002	1	0.115	0.085	0.060	Light	Light	Moderate
A	SLZ2	501	0	25	302	0.521	-0.014	-0.014	0.533	20	20	14	9					0.108	0.073	0.049	Light	Light	Moderate
D	SLZ2	501	0	25	302	0.507	-0.018	-0.01	0.521	20	21	15	9	-0.014	-0.004	0.004	0	0.108	0.080	0.049	Light	Light	Moderate
A	SLZ2	502	575	25	302	0.548	-0.006	0.002	0.559	19	19	15	8					0.106	0.082	0.045	Light	Light	Moderate
D	SLZ2	502	575	25	302	0.501	-0.023	0.006	0.516	20	20	16	9	-0.047	-0.017	0.004	1	0.102	0.083	0.048	Light	Light	Moderate
A	SLZ2	503	1150	25	302	0.546	-0.007	0.004	0.556	18	18	13	8					0.099	0.073	0.047	Light	Light	Moderate
D	SLZ2	503	1150	25	302	0.533	-0.013	0.003	0.545	19	20	14	9	-0.013	-0.006	-0.001	1	0.107	0.078	0.048	Light	Light	Moderate
A	SLZ2	511	0	50	302	0.588	-0.009	-0.013	0.598	18	18	15	8					0.109	0.089	0.046	Light	Light	Moderate
D	SLZ2	511	0	50	302	0.563	-0.027	-0.01	0.576	20	20	15	9	-0.025	-0.018	0.003	2	0.116	0.085	0.050	Light	Light	Moderate
A	SLZ2	512	575	50	302	0.569	-0.008	0.006	0.579	20	20	14	8					0.114	0.079	0.048	Light	Light	Moderate
D	SLZ2	512	575	50	302	0.549	-0.029	0.005	0.562	21	21	15	9	-0.02	-0.021	-0.001	1	0.117	0.086	0.051	Light	Light	Moderate
A	SLZ2	513	1150	50	302	0.571	-0.017	0.003	0.580	18	18	13	9					0.105	0.076	0.050	Light	Light	Moderate
D	SLZ2	513	1150	50	302	0.569	-0.015	0.002	0.579	19	19	14	9	-0.002	0.002	-0.001	1	0.110	0.078	0.052	Light	Light	Moderate
A	SLZ2	521	0	100	302	0.628	-0.011	-0.002	0.635	18	18	13	8					0.112	0.084	0.052	Light	Light	Moderate
D	SLZ2	521	0	100	302	0.61	-0.021	-0.004	0.620	19	20	14	9	-0.018	-0.01	-0.002	1	0.122	0.088	0.055	Light	Light	Moderate
A	SLZ2	522	575	100	302	0.626	-0.011	0.006	0.634	17	17	14	9					0.107	0.087	0.054	Light	Light	Moderate
D	SLZ2	522	575	100	302	0.583	-0.019	0.007	0.594	20	21	14	10	-0.043	-0.008	0.001	3	0.123	0.085	0.058	Light	Light	Moderate
A	SLZ2	523	1150	100	302	0.62	-0.017	0.001	0.628	18	18	13	8					0.112	0.084	0.052	Light	Light	Moderate
D	SLZ2	523	1150	100	302	0.608	-0.017	-0.002	0.618	18	19	14	9	-0.012	0	-0.003	0	0.116	0.084	0.056	Light	Light	Moderate
A	SLZ2	531	0	150	302	0.659	-0.011	-0.005	0.665	17	17	13	8					0.113	0.084	0.056	Light	Light	Moderate
D	SLZ2	531	0	150	302	0.644	-0.019	-0.007	0.652	18	18	14	9	-0.015	-0.008	-0.002	1	0.120	0.089	0.057	Light	Light	Moderate
A	SLZ2	532	575	150	302	0.65	-0.017	0.006	0.657	17	17	13	9					0.114	0.084	0.057	Light	Light	Moderate
D	SLZ2	532	575	150	302	0.625	-0.016	0.003	0.634	20	20	14	10	-0.025	0.001	-0.003	3	0.128	0.086	0.061	Light	Light	Moderate
A	SLZ2	533	1150	150	302	0.648	-0.014	-0.003	0.655	17	17	13	9					0.111	0.085	0.056	Light	Light	Moderate
D	SLZ2	533	1150	150	302	0.641	-0.015	0.001	0.649	18	18	13	9	-0.007	-0.001	0.004	1	0.118	0.087	0.058	Light	Light	Moderate
A	SLZ2	541	0	250	302	0.7	-0.013	-0.003	0.705	17	17	12	9					0.118	0.085	0.063	Light	Light	Moderate
D	SLZ2	541	0	250	302	0.686	-0.011	-0.006	0.691	17	17	13	8	-0.014	0.002	-0.003	0	0.120	0.089	0.058	Light	Light	Moderate
A	SLZ2	542	575	250	302	0.683	-0.014	0.001	0.688	15	16	12	9					0.107	0.085	0.061	Light	Light	Moderate
D	SLZ2	542	575	250	302	0.677	-0.014	0	0.683	18	18	13	9	-0.006	0	-0.001	3	0.123	0.086	0.062	Light	Light	Moderate
A	SLZ2	543	1150	250	302	0.69	-0.011	0	0.695	15	15	12	9					0.107	0.083	0.062	Light	Light	Moderate
D	SLZ2	543	1150	250	302	0.692	-0.011	0	0.698	16	16	13	9	0.002	0	0	1	0.109	0.089	0.060	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	101	0	25	324.5	0.551	-0.004	0.004	0.562	19	19	15	8					0.107	0.082	0.046	Light	Light	Moderate
D	Runway	101	0	25	324.5	0.55	-0.008	0.005	0.561	20	20	14	8	-0.001	-0.004	0.001	1	0.111	0.080	0.046	Light	Light	Moderate
A	Runway	102	695	25	324.5	0.536	-0.004	0.009	0.549	20	20	16	8					0.109	0.087	0.046	Light	Light	Moderate
D	Runway	102	695	25	324.5	0.542	-0.006	0.016	0.553	20	20	15	8	0.006	-0.002	0.007	0	0.110	0.083	0.043	Light	Light	Light
A	Runway	103	1389	25	324.5	0.521	-0.006	0.006	0.534	20	20	15	9					0.106	0.082	0.046	Light	Light	Moderate
D	Runway	103	1389	25	324.5	0.502	0.018	0.009	0.518	21	21	17	9	-0.019	0.024	0.003	1	0.110	0.090	0.048	Light	Light	Moderate
A	Runway	104	2064	25	324.5	0.529	-0.003	0.003	0.541	18	19	15	8					0.100	0.082	0.045	Light	Light	Moderate
D	Runway	104	2064	25	324.5	0.545	-0.012	0.002	0.555	19	19	13	8	0.016	-0.009	-0.001	1	0.107	0.073	0.044	Light	Light	Moderate
A	Runway	105	2739	25	324.5	0.531	-0.006	0.003	0.542	18	19	14	8					0.100	0.077	0.044	Light	Light	Moderate
D	Runway	105	2739	25	324.5	0.538	-0.026	0.006	0.549	18	18	13	8	0.007	-0.02	0.003	0	0.098	0.073	0.043	Light	Light	Light
A	Runway	106	3300	25	324.5	0.562	-0.002	-0.002	0.573	18	18	15	8					0.102	0.084	0.045	Light	Light	Moderate
D	Runway	106	3300	25	324.5	0.553	-0.028	0.002	0.563	18	18	13	7	-0.009	-0.026	0.004	0	0.100	0.076	0.042	Light	Light	Light
A	Runway	107	3875	25	324.5	0.528	-0.02	0.001	0.542	20	20	16	9					0.108	0.089	0.049	Light	Light	Moderate
D	Runway	107	3875	25	324.5	0.523	-0.031	0.004	0.537	20	20	16	9	-0.005	-0.011	0.003	0	0.109	0.084	0.046	Light	Light	Moderate
A	Runway	108	4450	25	324.5	0.53	-0.017	0.002	0.542	20	20	15	9					0.107	0.081	0.048	Light	Light	Moderate
D	Runway	108	4450	25	324.5	0.517	-0.029	0.006	0.530	19	20	15	9	-0.013	-0.012	0.004	-1	0.104	0.081	0.046	Light	Light	Moderate
A	Runway	111	0	50	324.5	0.61	-0.006	0.007	0.619	17	18	14	8					0.108	0.085	0.049	Light	Light	Moderate
D	Runway	111	0	50	324.5	0.608	-0.007	0.008	0.616	18	18	14	8	-0.002	-0.001	0.001	1	0.111	0.085	0.046	Light	Light	Moderate
A	Runway	112	695	50	324.5	0.564	-0.004	0.009	0.575	19	20	15	9					0.113	0.087	0.050	Light	Light	Moderate
D	Runway	112	695	50	324.5	0.571	-0.001	0.013	0.581	18	19	14	8	0.007	0.003	0.004	-1	0.108	0.079	0.049	Light	Light	Moderate
A	Runway	113	1389	50	324.5	0.569	-0.007	0.008	0.580	19	19	14	9					0.113	0.084	0.050	Light	Light	Moderate
D	Runway	113	1389	50	324.5	0.536	-0.001	0.008	0.549	21	21	16	10	-0.033	0.006	0	2	0.115	0.088	0.053	Light	Light	Moderate
A	Runway	114	2064	50	324.5	0.572	-0.008	0.008	0.582	18	18	14	8					0.107	0.084	0.048	Light	Light	Moderate
D	Runway	114	2064	50	324.5	0.587	-0.018	0.003	0.595	17	18	12	8	0.015	-0.01	-0.005	-1	0.104	0.073	0.047	Light	Light	Moderate
A	Runway	115	2739	50	324.5	0.576	-0.008	0.006	0.585	18	18	14	8					0.107	0.081	0.046	Light	Light	Moderate
D	Runway	115	2739	50	324.5	0.59	-0.023	0.005	0.598	18	18	13	7	0.014	-0.015	-0.001	0	0.105	0.080	0.044	Light	Light	Moderate
A	Runway	116	3300	50	324.5	0.585	-0.004	0.006	0.593	17	17	13	8					0.102	0.079	0.046	Light	Light	Moderate
D	Runway	116	3300	50	324.5	0.588	-0.027	0.002	0.597	18	18	14	8	0.003	-0.023	-0.004	1	0.106	0.084	0.048	Light	Light	Moderate
A	Runway	117	3875	50	324.5	0.56	-0.022	0.002	0.571	20	20	15	9					0.113	0.083	0.050	Light	Light	Moderate
D	Runway	117	3875	50	324.5	0.561	-0.042	0.007	0.573	20	20	14	8	0.001	-0.02	0.005	0	0.113	0.082	0.048	Light	Light	Moderate
A	Runway	118	4450	50	324.5	0.554	-0.012	0	0.565	19	19	15	9					0.110	0.085	0.053	Light	Light	Moderate
D	Runway	118	4450	50	324.5	0.561	-0.035	0.002	0.572	20	20	14	9	0.007	-0.023	0.002	1	0.113	0.080	0.052	Light	Light	Moderate
A	Runway	121	0	100	324.5	0.646	-0.008	0.01	0.653	18	18	14	8					0.117	0.090	0.052	Light	Light	Moderate
D	Runway	121	0	100	324.5	0.65	-0.011	0.01	0.658	17	17	14	8	0.004	-0.003	0	-1	0.112	0.092	0.052	Light	Light	Moderate
A	Runway	122	695	100	324.5	0.623	-0.015	0.009	0.632	19	19	14	8					0.118	0.087	0.053	Light	Light	Moderate
D	Runway	122	695	100	324.5	0.64	-0.018	0.01	0.648	18	18	14	8	0.017	-0.003	0.001	-1	0.115	0.088	0.051	Light	Light	Moderate
A	Runway	123	1389	100	324.5	0.612	-0.012	0.008	0.621	18	18	14	8					0.114	0.089	0.052	Light	Light	Moderate
D	Runway	123	1389	100	324.5	0.61	-0.02	0.001	0.619	19	19	13	8	-0.002	-0.008	-0.007	1	0.117	0.083	0.052	Light	Light	Moderate
A	Runway	124	2064	100	324.5	0.625	-0.01	0.004	0.632	18	18	13	8					0.111	0.083	0.052	Light	Light	Moderate
D	Runway	124	2064	100	324.5	0.632	-0.016	0.002	0.639	18	18	13	8	0.007	-0.006	-0.002	0	0.112	0.081	0.051	Light	Light	Moderate
A	Runway	125	2739	100	324.5	0.618	-0.008	0.005	0.626	17	18	13	8					0.110	0.084	0.053	Light	Light	Moderate
D	Runway	125	2739	100	324.5	0.624	-0.021	0.005	0.631	17	17	13	8	0.006	-0.013	0	0	0.109	0.084	0.050	Light	Light	Moderate
A	Runway	126	3300	100	324.5	0.626	-0.002	0.006	0.633	17	17	13	8					0.107	0.080	0.051	Light	Light	Moderate
D	Runway	126	3300	100	324.5	0.631	-0.019	0.001	0.638	17	17	12	8	0.005	-0.017	-0.005	0	0.110	0.079	0.050	Light	Light	Moderate
A	Runway	127	3875	100	324.5	0.636	-0.026	0.001	0.643	16	16	13	8					0.106	0.082	0.052	Light	Light	Moderate
D	Runway	127	3875	100	324.5	0.617	-0.03	0.001	0.625	19	19	13	8	-0.019	-0.004	0	3	0.116	0.083	0.052	Light	Light	Moderate
A	Runway	128	4450	100	324.5	0.633	-0.018	-0.002	0.640	17	17	13	8					0.108	0.086	0.053	Light	Light	Moderate
D	Runway	128	4450	100	324.5	0.615	-0.025	0.002	0.625	18	18	14	9	-0.018	-0.007	0.004	1	0.114	0.089	0.056	Light	Light	Moderate
A	Runway	131	0	150	324.5	0.675	-0.008	0.01	0.680	17	17	12	8					0.114	0.084	0.057	Light	Light	Moderate
D	Runway	131	0	150	324.5	0.688	-0.008	0.011	0.694	16	17	13	8	0.013	0	0.001	-1	0.115	0.090	0.056	Light	Light	Moderate
A	Runway	132	695	150	324.5	0.666	-0.009	0.009	0.672	16	17	13	8					0.111	0.089	0.054	Light	Light	Moderate
D	Runway	132	695	150	324.5	0.674	-0.021	0.011	0.681	18	18	14	8	0.008	-0.012	0.002	2	0.123	0.092	0.056	Light	Light	Moderate
A	Runway	133	1389	150	324.5	0.647	-0.008	0.006	0.654	18	19	14	8					0.121	0.089	0.055	Light	Light	Moderate
D	Runway	133	1389	150	324.5	0.665	-0.027	0.001	0.672	18	19	13	8	0.018	-0.019	-0.005	0	0.124	0.087	0.055	Light	Light	Moderate
A	Runway	134	2064	150	324.5	0.656	-0.009	0.008	0.662	18	18	13	9					0.118	0.086	0.057	Light	Light	Moderate
D	Runway	134	2064	150	324.5	0.66	-0.024	0.002	0.667	16	16	13	8	0.004	-0.015	-0.006	-2	0.107	0.089	0.054	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	Runway	135	2739	150	324.5	0.654	-0.01	0.005	0.661	17	17	13	8					0.111	0.088	0.054	Light	Light	Moderate
D	Runway	135	2739	150	324.5	0.658	-0.021	0	0.664	17	17	13	8	0.004	-0.011	-0.005	0	0.114	0.084	0.052	Light	Light	Moderate
A	Runway	136	3300	150	324.5	0.654	-0.008	0.007	0.660	17	17	12	8					0.111	0.080	0.056	Light	Light	Moderate
D	Runway	136	3300	150	324.5	0.657	-0.018	0.004	0.663	16	16	13	8	0.003	-0.01	-0.003	-1	0.109	0.085	0.053	Light	Light	Moderate
A	Runway	137	3875	150	324.5	0.657	-0.016	0	0.663	16	16	13	8					0.105	0.084	0.055	Light	Light	Moderate
D	Runway	137	3875	150	324.5	0.646	-0.022	-0.001	0.652	17	17	12	8	-0.011	-0.006	-0.001	1	0.112	0.079	0.055	Light	Light	Moderate
A	Runway	138	4450	150	324.5	0.658	-0.012	0.001	0.665	18	18	13	8					0.117	0.090	0.054	Light	Light	Moderate
D	Runway	138	4450	150	324.5	0.652	-0.018	-0.003	0.660	19	18	14	8	-0.006	-0.006	-0.004	1	0.122	0.090	0.055	Light	Light	Moderate
A	Runway	141	0	250	324.5	0.712	-0.007	0.009	0.717	15	15	12	9					0.111	0.086	0.065	Light	Light	Moderate
D	Runway	141	0	250	324.5	0.724	-0.015	0.009	0.729	16	16	13	9	0.012	-0.008	0	1	0.114	0.093	0.062	Light	Light	Moderate
A	Runway	142	695	250	324.5	0.728	-0.014	0.003	0.732	16	16	13	9					0.114	0.092	0.065	Light	Light	Moderate
D	Runway	142	695	250	324.5	0.716	-0.015	0.008	0.721	16	16	12	8	-0.012	-0.001	0.005	0	0.114	0.089	0.061	Light	Light	Moderate
A	Runway	143	1389	250	324.5	0.702	-0.013	0.004	0.707	16	16	13	9					0.114	0.091	0.060	Light	Light	Moderate
D	Runway	143	1389	250	324.5	0.703	-0.016	-0.001	0.707	15	15	12	8	0.001	-0.003	-0.005	-1	0.107	0.084	0.059	Light	Light	Moderate
A	Runway	144	2064	250	324.5	0.698	-0.016	0.009	0.703	17	17	13	9					0.118	0.091	0.063	Light	Light	Moderate
D	Runway	144	2064	250	324.5	0.7	-0.018	-0.002	0.706	16	16	13	8	0.002	-0.002	-0.011	-1	0.113	0.091	0.059	Light	Light	Moderate
A	Runway	145	2739	250	324.5	0.71	-0.006	0.003	0.714	16	16	12	9					0.115	0.086	0.062	Light	Light	Moderate
D	Runway	145	2739	250	324.5	0.707	-0.02	-0.002	0.711	15	15	12	8	-0.003	-0.014	-0.005	-1	0.107	0.087	0.059	Light	Light	Moderate
A	Runway	146	3300	250	324.5	0.682	-0.019	0.007	0.687	16	16	12	9					0.107	0.082	0.062	Light	Light	Moderate
D	Runway	146	3300	250	324.5	0.706	-0.012	-0.005	0.711	16	16	12	8	0.024	0.007	-0.012	0	0.112	0.087	0.060	Light	Light	Moderate
A	Runway	147	3875	250	324.5	0.682	-0.02	-0.003	0.687	17	17	12	9					0.119	0.082	0.062	Light	Light	Moderate
D	Runway	147	3875	250	324.5	0.684	-0.018	-0.001	0.689	17	17	12	9	0.002	0.002	0.002	0	0.120	0.085	0.061	Light	Light	Moderate
A	Runway	148	4450	250	324.5	0.694	-0.015	-0.002	0.699	16	16	12	9					0.110	0.085	0.063	Light	Light	Moderate
D	Runway	148	4450	250	324.5	0.708	-0.011	-0.004	0.712	16	16	12	9	0.014	0.004	-0.002	0	0.116	0.085	0.062	Light	Light	Moderate
A	HPLZ1	201	0	25	324.5	0.535	-0.009	-0.004	0.546	20	20	15	9					0.111	0.080	0.046	Light	Light	Moderate
D	HPLZ1	201	0	25	324.5	0.535	-0.008	0	0.547	20	20	15	8	0	0.001	0.004	0	0.108	0.080	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	324.5	0.525	-0.002	0.004	0.537	18	19	15	8					0.100	0.079	0.044	Light	Light	Moderate
D	HPLZ1	202	675	25	324.5	0.529	0.007	0.006	0.541	19	19	15	8	0.004	0.009	0.002	1	0.103	0.083	0.042	Light	Light	Light
A	HPLZ1	203	1350	25	324.5	0.523	0.007	0.003	0.536	19	19	16	8					0.102	0.086	0.044	Light	Light	Moderate
D	HPLZ1	203	1350	25	324.5	0.543	0.002	0.003	0.554	17	18	14	8	0.02	-0.005	0	-2	0.097	0.077	0.043	Light	Light	Light
A	HPLZ1	211	0	50	324.5	0.587	-0.01	-0.001	0.596	18	19	14	8					0.110	0.082	0.047	Light	Light	Moderate
D	HPLZ1	211	0	50	324.5	0.58	-0.014	0.005	0.589	19	19	14	8	-0.007	-0.004	0.006	1	0.112	0.084	0.048	Light	Light	Moderate
A	HPLZ1	212	675	50	324.5	0.586	-0.008	0.009	0.596	18	18	15	8					0.107	0.087	0.047	Light	Light	Moderate
D	HPLZ1	212	675	50	324.5	0.576	-0.008	0.007	0.586	18	18	14	8	-0.01	0	-0.002	0	0.105	0.083	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	324.5	0.58	0.004	0.008	0.590	18	18	15	8					0.106	0.087	0.045	Light	Light	Moderate
D	HPLZ1	213	1350	50	324.5	0.573	-0.002	0.008	0.582	16	17	14	8	-0.007	-0.006	0	-2	0.097	0.079	0.045	Light	Light	Moderate
A	HPLZ1	221	0	100	324.5	0.617	-0.011	0.004	0.625	18	18	14	8					0.114	0.086	0.051	Light	Light	Moderate
D	HPLZ1	221	0	100	324.5	0.635	-0.018	0.006	0.643	18	18	14	8	0.018	-0.007	0.002	0	0.114	0.087	0.051	Light	Light	Moderate
A	HPLZ1	222	675	100	324.5	0.636	-0.01	0.008	0.645	17	17	14	8					0.112	0.092	0.052	Light	Light	Moderate
D	HPLZ1	222	675	100	324.5	0.621	-0.01	0.007	0.628	18	18	13	8	-0.015	0	-0.001	1	0.112	0.084	0.053	Light	Light	Moderate
A	HPLZ1	223	1350	100	324.5	0.626	-0.004	0.012	0.634	17	17	13	8					0.109	0.085	0.050	Light	Light	Moderate
D	HPLZ1	223	1350	100	324.5	0.629	-0.003	0.013	0.636	16	16	13	8	0.003	0.001	0.001	-1	0.104	0.080	0.050	Light	Light	Moderate
A	HPLZ1	231	0	150	324.5	0.666	-0.016	0.002	0.671	17	17	12	8					0.113	0.082	0.054	Light	Light	Moderate
D	HPLZ1	231	0	150	324.5	0.66	-0.021	0.006	0.666	17	17	13	8	-0.006	-0.005	0.004	0	0.113	0.086	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	324.5	0.67	-0.013	0.005	0.676	17	17	13	8					0.115	0.089	0.056	Light	Light	Moderate
D	HPLZ1	232	675	150	324.5	0.645	-0.013	0.009	0.653	18	18	14	9	-0.025	0	0.004	1	0.117	0.092	0.057	Light	Light	Moderate
A	HPLZ1	233	1350	150	324.5	0.652	-0.01	0.01	0.658	18	18	13	8					0.116	0.083	0.055	Light	Light	Moderate
D	HPLZ1	233	1350	150	324.5	0.672	-0.015	0.007	0.678	16	16	13	8	0.02	-0.005	-0.003	-2	0.107	0.091	0.053	Light	Light	Moderate
A	HPLZ1	241	0	250	324.5	0.706	-0.009	0.005	0.711	16	16	12	9					0.115	0.088	0.062	Light	Light	Moderate
D	HPLZ1	241	0	250	324.5	0.712	-0.02	0.003	0.717	15	15	13	9	0.006	-0.011	-0.002	-1	0.107	0.090	0.061	Light	Light	Moderate
A	HPLZ1	242	675	250	324.5	0.702	-0.015	0.007	0.707	16	16	13	9					0.112	0.093	0.062	Light	Light	Moderate
D	HPLZ1	242	675	250	324.5	0.711	-0.012	0	0.716	15	15	13	8	0.009	0.003	-0.007	-1	0.110	0.092	0.060	Light	Light	Moderate
A	HPLZ1	243	1350	250	324.5	0.707	-0.009	0.007	0.712	17	17	13	9					0.118	0.090	0.061	Light	Light	Moderate
D	HPLZ1	243	1350	250	324.5	0.71	-0.01	0.003	0.714	14	14	13	8	0.003	-0.001	-0.004	-3	0.102	0.090	0.059	Light	Light	Moderate
A	HPLZ2	301	0	25	324.5	0.552	-0.014	0.007	0.562	18	18	14	8					0.103	0.081	0.043	Light	Light	Light
D	HPLZ2	301	0	25	324.5	0.504	-0.013	-0.011	0.517	20	20	15	10	-0.048	0.001	-0.018	2	0.105	0.078	0.050	Light	Light	Moderate

Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW (% [UVW])	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	HPLZ2	302	675	25	324.5	0.552	-0.011	0.004	0.563	18	18	15	8					0.101	0.083	0.043	Light	Light	Light
D	HPLZ2	302	675	25	324.5	0.535	-0.009	0.005	0.546	19	19	15	8	-0.017	0.002	0.001	1	0.106	0.079	0.045	Light	Light	Moderate
A	HPLZ2	303	1350	25	324.5	0.549	-0.003	-0.005	0.559	19	19	14	8					0.108	0.080	0.044	Light	Light	Moderate
D	HPLZ2	303	1350	25	324.5	0.562	-0.002	-0.006	0.572	18	18	15	8	0.013	0.001	-0.001	-1	0.103	0.085	0.044	Light	Light	Moderate
A	HPLZ2	311	0	50	324.5	0.602	-0.013	0.008	0.611	18	18	14	8					0.111	0.086	0.047	Light	Light	Moderate
D	HPLZ2	311	0	50	324.5	0.586	0	0.001	0.596	18	18	15	8	-0.016	0.013	-0.007	0	0.108	0.087	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	324.5	0.593	-0.003	0.009	0.601	18	18	13	8					0.110	0.080	0.047	Light	Light	Moderate
D	HPLZ2	312	675	50	324.5	0.586	-0.006	0.01	0.596	19	19	14	8	-0.007	-0.003	0.001	1	0.114	0.086	0.047	Light	Light	Moderate
A	HPLZ2	313	1350	50	324.5	0.601	-0.01	0.001	0.609	17	17	13	8					0.103	0.079	0.046	Light	Light	Moderate
D	HPLZ2	313	1350	50	324.5	0.572	-0.006	0.005	0.582	18	18	15	8	-0.029	0.004	0.004	1	0.103	0.085	0.048	Light	Light	Moderate
A	HPLZ2	321	0	100	324.5	0.652	-0.015	0.008	0.658	17	17	13	8					0.115	0.083	0.052	Light	Light	Moderate
D	HPLZ2	321	0	100	324.5	0.642	-0.008	0.006	0.649	18	18	13	8	-0.01	0.007	-0.002	1	0.117	0.087	0.053	Light	Light	Moderate
A	HPLZ2	322	675	100	324.5	0.65	-0.019	0.01	0.656	17	17	13	8					0.110	0.083	0.051	Light	Light	Moderate
D	HPLZ2	322	675	100	324.5	0.644	-0.017	0.01	0.651	18	18	13	8	-0.006	0.002	0	1	0.115	0.085	0.050	Light	Light	Moderate
A	HPLZ2	323	1350	100	324.5	0.636	-0.003	0.004	0.643	17	17	13	8					0.109	0.086	0.053	Light	Light	Moderate
D	HPLZ2	323	1350	100	324.5	0.643	-0.004	0.005	0.649	17	17	13	8	0.007	-0.001	0.001	0	0.112	0.084	0.051	Light	Light	Moderate
A	HPLZ2	331	0	150	324.5	0.681	-0.016	0.006	0.686	17	17	13	8					0.114	0.089	0.054	Light	Light	Moderate
D	HPLZ2	331	0	150	324.5	0.668	-0.012	0.003	0.674	17	17	13	8	-0.013	0.004	-0.003	0	0.113	0.086	0.056	Light	Light	Moderate
A	HPLZ2	332	675	150	324.5	0.671	-0.014	0.009	0.676	17	17	13	8					0.113	0.086	0.054	Light	Light	Moderate
D	HPLZ2	332	675	150	324.5	0.681	-0.01	0.006	0.687	17	17	13	8	0.01	0.004	-0.003	0	0.119	0.089	0.055	Light	Light	Moderate
A	HPLZ2	333	1350	150	324.5	0.676	-0.004	0.004	0.682	16	16	13	8					0.111	0.088	0.056	Light	Light	Moderate
D	HPLZ2	333	1350	150	324.5	0.673	-0.01	0.004	0.680	16	16	13	8	-0.003	-0.006	0	0	0.108	0.092	0.056	Light	Light	Moderate
A	HPLZ2	341	0	250	324.5	0.706	-0.016	0.007	0.711	16	16	13	9					0.117	0.089	0.061	Light	Light	Moderate
D	HPLZ2	341	0	250	324.5	0.719	-0.014	0.003	0.722	16	16	11	9	0.013	0.002	-0.004	0	0.114	0.081	0.063	Light	Light	Moderate
A	HPLZ2	342	675	250	324.5	0.711	-0.014	0.007	0.716	16	16	13	9					0.113	0.091	0.062	Light	Light	Moderate
D	HPLZ2	342	675	250	324.5	0.709	-0.011	0.005	0.713	16	16	12	9	-0.002	0.003	-0.002	0	0.114	0.083	0.062	Light	Light	Moderate
A	HPLZ2	343	1350	250	324.5	0.701	-0.013	0.002	0.705	15	15	12	8					0.108	0.084	0.060	Light	Light	Moderate
D	HPLZ2	343	1350	250	324.5	0.697	-0.013	0.002	0.701	15	15	12	9	-0.004	0	0	0	0.104	0.081	0.061	Light	Light	Moderate
A	SLZ1	401	0	25	324.5	0.543	-0.004	-0.003	0.553	18	18	14	8					0.099	0.076	0.044	Light	Light	Moderate
D	SLZ1	401	0	25	324.5	0.548	-0.013	-0.005	0.558	17	17	13	8	0.005	-0.009	-0.002	-1	0.097	0.074	0.044	Light	Light	Moderate
A	SLZ1	402	575	25	324.5	0.536	-0.004	0.003	0.547	18	18	14	8					0.099	0.077	0.045	Light	Light	Moderate
D	SLZ1	402	575	25	324.5	0.527	-0.023	0.005	0.538	18	18	14	8	-0.009	-0.019	0.002	0	0.097	0.073	0.044	Light	Light	Moderate
A	SLZ1	403	1150	25	324.5	0.557	-0.004	0.002	0.567	18	18	14	8					0.101	0.079	0.044	Light	Light	Moderate
D	SLZ1	403	1150	25	324.5	0.524	-0.015	0.003	0.536	19	19	15	8	-0.033	-0.011	0.001	1	0.100	0.080	0.045	Light	Light	Moderate
A	SLZ1	411	0	50	324.5	0.59	-0.005	0.006	0.598	16	17	13	8					0.099	0.080	0.047	Light	Light	Moderate
D	SLZ1	411	0	50	324.5	0.6	-0.011	0.004	0.607	17	17	12	8	0.01	-0.006	-0.002	1	0.104	0.076	0.046	Light	Light	Moderate
A	SLZ1	412	575	50	324.5	0.595	-0.016	0.006	0.603	18	18	13	7					0.109	0.081	0.044	Light	Light	Moderate
D	SLZ1	412	575	50	324.5	0.592	-0.02	0.007	0.601	17	17	13	8	-0.003	-0.004	0.001	-1	0.104	0.080	0.046	Light	Light	Moderate
A	SLZ1	413	1150	50	324.5	0.599	-0.011	0.003	0.607	18	19	13	8					0.113	0.081	0.048	Light	Light	Moderate
D	SLZ1	413	1150	50	324.5	0.592	-0.031	0.006	0.601	18	18	14	8	-0.007	-0.02	0.003	0	0.107	0.084	0.046	Light	Light	Moderate
A	SLZ1	421	0	100	324.5	0.644	0	0.007	0.650	17	17	12	8					0.110	0.081	0.052	Light	Light	Moderate
D	SLZ1	421	0	100	324.5	0.642	-0.01	0	0.648	16	16	13	8	-0.002	-0.01	-0.007	-1	0.102	0.082	0.050	Light	Light	Moderate
A	SLZ1	422	575	100	324.5	0.638	-0.012	0.007	0.645	17	17	14	8					0.110	0.087	0.050	Light	Light	Moderate
D	SLZ1	422	575	100	324.5	0.647	-0.029	0.002	0.653	17	17	12	8	0.009	-0.017	-0.005	0	0.109	0.078	0.050	Light	Light	Moderate
A	SLZ1	423	1150	100	324.5	0.631	-0.017	0.008	0.638	17	17	13	8					0.108	0.083	0.050	Light	Light	Moderate
D	SLZ1	423	1150	100	324.5	0.62	-0.022	0.005	0.628	17	18	13	9	-0.011	-0.005	-0.003	0	0.110	0.081	0.054	Light	Light	Moderate
A	SLZ1	431	0	150	324.5	0.661	-0.009	0.001	0.666	17	17	12	9					0.114	0.079	0.057	Light	Light	Moderate
D	SLZ1	431	0	150	324.5	0.676	-0.009	-0.001	0.681	16	16	12	8	0.015	0	-0.002	-1	0.109	0.084	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	324.5	0.662	-0.015	0.004	0.668	17	17	12	8					0.113	0.080	0.054	Light	Light	Moderate
D	SLZ1	432	575	150	324.5	0.662	-0.019	0.003	0.668	16	16	13	8	0	-0.004	-0.001	-1	0.109	0.085	0.055	Light	Light	Moderate
A	SLZ1	433	1150	150	324.5	0.669	-0.022	0.005	0.675	16	16	13	8					0.110	0.085	0.056	Light	Light	Moderate
D	SLZ1	433	1150	150	324.5	0.655	-0.019	0.002	0.661	17	17	13	8	-0.014	0.003	-0.003	1	0.113	0.083	0.055	Light	Light	Moderate
A	SLZ1	441	0	250	324.5	0.705	-0.009	0.002	0.709	16	16	12	9					0.115	0.086	0.063	Light	Light	Moderate
D	SLZ1	441	0	250	324.5	0.7	-0.007	0	0.705	16	16	12	9	-0.005	0.002	-0.002	0	0.112	0.085	0.062	Light	Light	Moderate
A	SLZ1	442	575	250	324.5	0.702	-0.018	0.004	0.707	16	16	12	9					0.111	0.083	0.061	Light	Light	Moderate
D	SLZ1	442	575	250	324.5	0.717	-0.008	-0.006	0.721	15	15	12	8	0.015	0.01	-0.01	-1	0.110	0.085	0.060	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	443	1150	250	324.5	0.696	-0.012	0.001	0.700	15	15	11	9					0.108	0.080	0.060	Light	Light	Moderate
D	SLZ1	443	1150	250	324.5	0.712	-0.015	-0.002	0.717	16	16	12	9	0.016	-0.003	-0.003	1	0.115	0.088	0.061	Light	Light	Moderate
A	SLZ2	501	0	25	324.5	0.537	-0.012	0	0.548	19	20	14	8					0.107	0.078	0.045	Light	Light	Moderate
D	SLZ2	501	0	25	324.5	0.557	-0.01	-0.004	0.566	19	19	13	8	0.02	0.002	-0.004	0	0.107	0.075	0.044	Light	Light	Moderate
A	SLZ2	502	575	25	324.5	0.56	-0.007	-0.001	0.569	18	18	13	8					0.101	0.075	0.044	Light	Light	Moderate
D	SLZ2	502	575	25	324.5	0.561	-0.012	-0.005	0.570	18	18	13	8	0.001	-0.005	-0.004	0	0.102	0.073	0.046	Light	Light	Moderate
A	SLZ2	503	1150	25	324.5	0.572	-0.013	0.003	0.581	18	18	13	7					0.103	0.078	0.042	Light	Light	Light
D	SLZ2	503	1150	25	324.5	0.555	-0.016	0.005	0.564	18	18	14	8	-0.017	-0.003	0.002	0	0.101	0.079	0.044	Light	Light	Moderate
A	SLZ2	511	0	50	324.5	0.596	-0.013	0.005	0.604	17	17	14	8					0.105	0.082	0.046	Light	Light	Moderate
D	SLZ2	511	0	50	324.5	0.598	-0.014	0.005	0.606	17	18	14	7	0.002	-0.001	0	0	0.106	0.082	0.045	Light	Light	Moderate
A	SLZ2	512	575	50	324.5	0.6	-0.015	0	0.608	17	17	13	8					0.105	0.078	0.048	Light	Light	Moderate
D	SLZ2	512	575	50	324.5	0.616	-0.025	-0.002	0.623	19	19	13	8	0.016	-0.01	-0.002	2	0.117	0.081	0.048	Light	Light	Moderate
A	SLZ2	513	1150	50	324.5	0.6	-0.011	0.008	0.608	17	17	14	7					0.105	0.083	0.045	Light	Light	Moderate
D	SLZ2	513	1150	50	324.5	0.617	-0.015	0.006	0.625	17	17	13	7	0.017	-0.004	-0.002	0	0.107	0.080	0.045	Light	Light	Moderate
A	SLZ2	521	0	100	324.5	0.646	-0.013	0.004	0.652	17	17	13	8					0.111	0.085	0.050	Light	Light	Moderate
D	SLZ2	521	0	100	324.5	0.653	-0.014	0.003	0.660	17	17	13	8	0.007	-0.001	-0.001	0	0.110	0.086	0.051	Light	Light	Moderate
A	SLZ2	522	575	100	324.5	0.631	-0.013	0.006	0.638	18	18	12	8					0.112	0.078	0.052	Light	Light	Moderate
D	SLZ2	522	575	100	324.5	0.653	-0.016	0.002	0.658	16	16	12	7	0.022	-0.003	-0.004	-2	0.106	0.079	0.049	Light	Light	Moderate
A	SLZ2	523	1150	100	324.5	0.657	-0.013	0.006	0.663	16	16	12	8					0.103	0.083	0.052	Light	Light	Moderate
D	SLZ2	523	1150	100	324.5	0.66	-0.016	0.005	0.666	17	17	13	8	0.003	-0.003	-0.001	1	0.111	0.085	0.052	Light	Light	Moderate
A	SLZ2	531	0	150	324.5	0.686	-0.017	0.005	0.691	16	16	12	8					0.110	0.086	0.056	Light	Light	Moderate
D	SLZ2	531	0	150	324.5	0.678	-0.015	0.002	0.684	17	17	13	8	-0.008	0.002	-0.003	1	0.113	0.091	0.055	Light	Light	Moderate
A	SLZ2	532	575	150	324.5	0.687	-0.012	0.003	0.691	15	15	12	8					0.106	0.084	0.056	Light	Light	Moderate
D	SLZ2	532	575	150	324.5	0.681	-0.013	0.002	0.686	16	16	13	8	-0.006	-0.001	-0.001	1	0.106	0.087	0.055	Light	Light	Moderate
A	SLZ2	533	1150	150	324.5	0.676	-0.011	0.008	0.681	16	16	12	8					0.108	0.084	0.057	Light	Light	Moderate
D	SLZ2	533	1150	150	324.5	0.675	-0.016	0.004	0.679	16	16	12	8	-0.001	-0.005	-0.004	0	0.106	0.079	0.055	Light	Light	Moderate
A	SLZ2	541	0	250	324.5	0.705	-0.012	0.003	0.709	16	16	12	8					0.111	0.084	0.060	Light	Light	Moderate
D	SLZ2	541	0	250	324.5	0.71	-0.02	-0.001	0.714	15	15	12	8	0.005	-0.008	-0.004	-1	0.110	0.085	0.057	Light	Light	Moderate
A	SLZ2	542	575	250	324.5	0.719	-0.009	-0.001	0.723	15	15	12	8					0.111	0.088	0.061	Light	Light	Moderate
D	SLZ2	542	575	250	324.5	0.718	-0.011	-0.003	0.722	16	16	11	9	-0.001	-0.002	-0.002	1	0.113	0.082	0.063	Light	Light	Moderate
A	SLZ2	543	1150	250	324.5	0.713	-0.017	0.002	0.717	15	15	11	8					0.108	0.080	0.060	Light	Light	Moderate
D	SLZ2	543	1150	250	324.5	0.707	-0.009	0.002	0.711	15	15	12	8	-0.006	0.008	0	0	0.107	0.085	0.059	Light	Light	Moderate
A	Runway	101	0	25	347	0.545	-0.012	0.003	0.557	19	19	15	8					0.105	0.086	0.046	Light	Light	Moderate
D	Runway	101	0	25	347	0.541	-0.005	0.005	0.554	19	19	16	8	-0.004	0.007	0.002	0	0.108	0.089	0.046	Light	Light	Moderate
A	Runway	102	695	25	347	0.533	-0.008	0.011	0.545	19	20	16	8					0.107	0.085	0.044	Light	Light	Moderate
D	Runway	102	695	25	347	0.549	-0.006	0.01	0.560	19	19	15	8	0.016	0.002	-0.001	0	0.106	0.084	0.043	Light	Light	Light
A	Runway	103	1389	25	347	0.543	-0.014	0.002	0.554	18	18	15	8					0.102	0.081	0.045	Light	Light	Moderate
D	Runway	103	1389	25	347	0.539	-0.007	-0.001	0.550	18	18	15	8	-0.004	0.007	-0.003	0	0.101	0.081	0.044	Light	Light	Moderate
A	Runway	104	2064	25	347	0.536	-0.007	0	0.547	18	19	15	8					0.101	0.080	0.045	Light	Light	Moderate
D	Runway	104	2064	25	347	0.535	-0.009	0	0.548	19	19	16	8	-0.001	-0.002	0	1	0.105	0.085	0.046	Light	Light	Moderate
A	Runway	105	2739	25	347	0.562	-0.018	0.002	0.572	17	17	13	7					0.100	0.077	0.042	Light	Light	Light
D	Runway	105	2739	25	347	0.553	-0.011	0.006	0.563	17	17	14	8	-0.009	0.007	0.004	0	0.095	0.079	0.043	Light	Light	Light
A	Runway	106	3300	25	347	0.576	0.006	-0.002	0.584	17	17	14	7					0.098	0.080	0.042	Light	Light	Light
D	Runway	106	3300	25	347	0.564	-0.002	0.002	0.574	18	18	15	8	-0.012	-0.008	0.004	1	0.106	0.086	0.044	Light	Light	Moderate
A	Runway	107	3875	25	347	0.565	-0.014	0.002	0.574	17	17	13	7					0.098	0.075	0.043	Light	Light	Light
D	Runway	107	3875	25	347	0.56	-0.015	0.002	0.569	17	17	14	8	-0.005	-0.001	0	0	0.098	0.078	0.044	Light	Light	Moderate
A	Runway	108	4450	25	347	0.556	-0.009	-0.002	0.566	19	19	13	7					0.107	0.075	0.042	Light	Light	Light
D	Runway	108	4450	25	347	0.565	-0.01	0	0.574	18	18	14	8	0.009	-0.001	0.002	-1	0.103	0.080	0.043	Light	Light	Light
A	Runway	111	0	50	347	0.599	-0.006	0.008	0.608	19	19	14	8					0.113	0.086	0.047	Light	Light	Moderate
D	Runway	111	0	50	347	0.587	-0.01	0.008	0.597	19	19	14	8	-0.012	-0.004	0	0	0.114	0.085	0.048	Light	Light	Moderate
A	Runway	112	695	50	347	0.596	-0.01	0.013	0.605	18	18	15	7					0.110	0.090	0.045	Light	Light	Moderate
D	Runway	112	695	50	347	0.59	-0.004	0.014	0.600	18	18	15	8	-0.006	0.006	0.001	0	0.111	0.091	0.045	Light	Light	Moderate
A	Runway	113	1389	50	347	0.594	-0.017	0.007	0.603	17	17	14	8					0.105	0.083	0.047	Light	Light	Moderate
D	Runway	113	1389	50	347	0.579	-0.007	0.006	0.589	19	19	14	8	-0.015	0.01	-0.001	2	0.110	0.083	0.045	Light	Light	Moderate
A	Runway	114	2064	50	347	0.591	-0.012	0.008	0.600	18	18	14	7					0.107	0.082	0.044	Light	Light	Moderate
D	Runway	114	2064	50	347	0.587	-0.014	0.007	0.597	17	18	15	8	-0.004	-0.002	-0.001	-1	0.104	0.087	0.048	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	Runway	115	2739	50	347	0.597	-0.011	0.006	0.604	18	18	13	7					0.108	0.076	0.045	Light	Light	Moderate
D	Runway	115	2739	50	347	0.594	-0.013	0.009	0.603	18	19	14	8	-0.003	-0.002	0.003	0	0.112	0.084	0.045	Light	Light	Moderate
A	Runway	116	3300	50	347	0.613	0.001	0.008	0.620	16	16	13	7					0.102	0.083	0.042	Light	Light	Moderate
D	Runway	116	3300	50	347	0.606	0	0.01	0.614	18	18	14	7	-0.007	-0.001	0.002	2	0.108	0.086	0.045	Light	Light	Moderate
A	Runway	117	3875	50	347	0.611	-0.015	0.009	0.618	17	17	13	7					0.108	0.079	0.044	Light	Light	Moderate
D	Runway	117	3875	50	347	0.613	-0.01	0.009	0.620	17	17	13	7	0.002	0.005	0	0	0.106	0.080	0.044	Light	Light	Moderate
A	Runway	118	4450	50	347	0.608	-0.012	0.005	0.615	17	17	13	7					0.107	0.079	0.045	Light	Light	Moderate
D	Runway	118	4450	50	347	0.608	-0.012	0.003	0.616	18	18	13	7	0	0	-0.002	1	0.108	0.082	0.043	Light	Light	Moderate
A	Runway	121	0	100	347	0.637	-0.012	0.01	0.645	17	17	14	8					0.113	0.090	0.051	Light	Light	Moderate
D	Runway	121	0	100	347	0.639	-0.014	0.012	0.647	17	17	13	8	0.002	-0.002	0.002	0	0.111	0.086	0.054	Light	Light	Moderate
A	Runway	122	695	100	347	0.637	-0.009	0.015	0.644	17	17	13	8					0.110	0.086	0.051	Light	Light	Moderate
D	Runway	122	695	100	347	0.624	-0.006	0.016	0.632	17	18	14	8	-0.013	0.003	0.001	0	0.111	0.087	0.051	Light	Light	Moderate
A	Runway	123	1389	100	347	0.633	-0.017	0.01	0.641	18	18	14	8					0.114	0.089	0.050	Light	Light	Moderate
D	Runway	123	1389	100	347	0.64	-0.009	0.01	0.647	17	18	13	8	0.007	0.008	0	-1	0.113	0.083	0.051	Light	Light	Moderate
A	Runway	124	2064	100	347	0.639	-0.012	0.011	0.647	17	17	14	8					0.111	0.088	0.051	Light	Light	Moderate
D	Runway	124	2064	100	347	0.642	-0.019	0.011	0.649	17	17	13	8	0.003	-0.007	0	0	0.111	0.086	0.050	Light	Light	Moderate
A	Runway	125	2739	100	347	0.65	-0.015	0.008	0.657	16	16	13	8					0.107	0.088	0.051	Light	Light	Moderate
D	Runway	125	2739	100	347	0.618	-0.016	0.014	0.627	18	18	14	8	-0.032	-0.001	0.006	2	0.111	0.089	0.051	Light	Light	Moderate
A	Runway	126	3300	100	347	0.636	-0.001	0.009	0.642	16	16	13	8					0.105	0.082	0.050	Light	Light	Moderate
D	Runway	126	3300	100	347	0.649	-0.003	0.009	0.655	17	17	13	7	0.013	-0.002	0	1	0.111	0.087	0.049	Light	Light	Moderate
A	Runway	127	3875	100	347	0.668	-0.014	0.005	0.673	16	16	12	7					0.110	0.081	0.049	Light	Light	Moderate
D	Runway	127	3875	100	347	0.655	-0.021	0.009	0.661	16	16	13	7	-0.013	-0.007	0.004	0	0.107	0.085	0.047	Light	Light	Moderate
A	Runway	128	4450	100	347	0.652	-0.013	0.007	0.657	16	16	12	7					0.107	0.079	0.049	Light	Light	Moderate
D	Runway	128	4450	100	347	0.666	-0.008	0.003	0.671	16	16	12	7	0.014	0.005	-0.004	0	0.108	0.081	0.050	Light	Light	Moderate
A	Runway	131	0	150	347	0.661	-0.012	0.008	0.668	18	18	13	9					0.119	0.084	0.058	Light	Light	Moderate
D	Runway	131	0	150	347	0.657	-0.006	0.012	0.664	17	17	13	9	-0.004	0.006	0.004	-1	0.111	0.088	0.057	Light	Light	Moderate
A	Runway	132	695	150	347	0.668	-0.012	0.013	0.674	17	17	14	8					0.112	0.091	0.054	Light	Light	Moderate
D	Runway	132	695	150	347	0.67	-0.007	0.013	0.677	16	16	14	8	0.002	0.005	0	-1	0.109	0.092	0.057	Light	Light	Moderate
A	Runway	133	1389	150	347	0.677	-0.012	0.005	0.682	16	16	12	8					0.106	0.083	0.055	Light	Light	Moderate
D	Runway	133	1389	150	347	0.673	-0.014	0.006	0.679	16	16	13	8	-0.004	-0.002	0.001	0	0.109	0.089	0.054	Light	Light	Moderate
A	Runway	134	2064	150	347	0.66	-0.016	0.012	0.667	17	17	13	8					0.115	0.087	0.056	Light	Light	Moderate
D	Runway	134	2064	150	347	0.667	-0.015	0.009	0.673	17	17	13	8	0.007	0.001	-0.003	0	0.117	0.087	0.056	Light	Light	Moderate
A	Runway	135	2739	150	347	0.666	-0.013	0.011	0.672	16	16	13	8					0.106	0.087	0.052	Light	Light	Moderate
D	Runway	135	2739	150	347	0.671	-0.025	0.007	0.677	17	16	13	8	0.005	-0.012	-0.004	1	0.112	0.085	0.055	Light	Light	Moderate
A	Runway	136	3300	150	347	0.663	-0.006	0.007	0.668	15	15	12	8					0.103	0.083	0.054	Light	Light	Moderate
D	Runway	136	3300	150	347	0.674	-0.005	0.008	0.679	16	16	12	8	0.011	0.001	0.001	1	0.107	0.082	0.055	Light	Light	Moderate
A	Runway	137	3875	150	347	0.678	-0.02	0.007	0.683	16	16	12	8					0.108	0.085	0.052	Light	Light	Moderate
D	Runway	137	3875	150	347	0.688	-0.014	0.008	0.693	15	15	12	8	0.01	0.006	0.001	-1	0.103	0.086	0.054	Light	Light	Moderate
A	Runway	138	4450	150	347	0.686	-0.008	0.007	0.690	16	16	11	8					0.112	0.079	0.052	Light	Light	Moderate
D	Runway	138	4450	150	347	0.693	-0.018	0.005	0.698	15	15	12	8	0.007	-0.01	-0.002	-1	0.108	0.085	0.055	Light	Light	Moderate
A	Runway	141	0	250	347	0.687	-0.01	0.009	0.693	17	17	13	9					0.120	0.091	0.062	Light	Light	Moderate
D	Runway	141	0	250	347	0.708	-0.006	0.007	0.713	16	16	12	9	0.021	0.004	-0.002	-1	0.114	0.089	0.065	Light	Light	Moderate
A	Runway	142	695	250	347	0.71	-0.014	0.007	0.715	16	16	13	9					0.112	0.090	0.062	Light	Light	Moderate
D	Runway	142	695	250	347	0.701	-0.007	0.012	0.707	16	16	13	9	-0.009	0.007	0.005	0	0.113	0.093	0.062	Light	Light	Moderate
A	Runway	143	1389	250	347	0.708	-0.015	0.008	0.713	16	16	12	9					0.111	0.087	0.062	Light	Light	Moderate
D	Runway	143	1389	250	347	0.711	-0.016	0.002	0.715	16	16	12	9	0.003	-0.001	-0.006	0	0.113	0.083	0.065	Light	Light	Moderate
A	Runway	144	2064	250	347	0.706	-0.018	0.005	0.711	15	15	12	9					0.109	0.087	0.061	Light	Light	Moderate
D	Runway	144	2064	250	347	0.695	-0.009	0.01	0.700	15	15	13	9	-0.011	0.009	0.005	0	0.108	0.088	0.061	Light	Light	Moderate
A	Runway	145	2739	250	347	0.712	-0.014	0.004	0.715	15	15	12	8					0.109	0.083	0.060	Light	Light	Moderate
D	Runway	145	2739	250	347	0.701	-0.015	0.004	0.705	15	15	12	9	-0.011	-0.001	0	0	0.102	0.081	0.062	Light	Light	Moderate
A	Runway	146	3300	250	347	0.709	-0.004	0.003	0.712	15	15	11	8					0.104	0.078	0.060	Light	Light	Moderate
D	Runway	146	3300	250	347	0.714	-0.003	0.006	0.719	16	16	12	9	0.005	0.001	0.003	1	0.114	0.088	0.063	Light	Light	Moderate
A	Runway	147	3875	250	347	0.716	-0.012	0.004	0.719	15	15	12	8					0.110	0.087	0.059	Light	Light	Moderate
D	Runway	147	3875	250	347	0.696	-0.016	0.009	0.701	16	16	12	9	-0.02	-0.004	0.005	1	0.112	0.085	0.061	Light	Light	Moderate
A	Runway	148	4450	250	347	0.722	-0.015	0.005	0.725	14	14	12	8					0.103	0.086	0.059	Light	Light	Moderate
D	Runway	148	4450	250	347	0.739	-0.014	-0.001	0.743	15	15	12	8	0.017	0.001	-0.006	1	0.109	0.090	0.061	Light	Light	Moderate

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Table B3: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & D

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])								Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
A	HPLZ1	201	0	25	347	0.551	-0.014	0.004	0.562	19	20	15	8					0.111	0.083	0.044	Light	Light	Moderate
D	HPLZ1	201	0	25	347	0.532	-0.018	0.006	0.544	19	19	15	8	-0.019	-0.004	0.002	0	0.104	0.083	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	347	0.546	-0.01	0.005	0.556	18	18	14	8					0.100	0.080	0.043	Light	Light	Light
D	HPLZ1	202	675	25	347	0.541	-0.008	0.007	0.552	19	19	15	8	-0.005	0.002	0.002	1	0.105	0.080	0.044	Light	Light	Moderate
A	HPLZ1	203	1350	25	347	0.522	-0.002	0.004	0.533	18	18	15	8					0.097	0.078	0.044	Light	Light	Moderate
D	HPLZ1	203	1350	25	347	0.51	-0.007	0.002	0.523	19	19	16	9	-0.012	-0.005	-0.002	1	0.100	0.082	0.045	Light	Light	Moderate
A	HPLZ1	211	0	50	347	0.593	-0.018	0.007	0.602	17	17	13	7					0.104	0.081	0.045	Light	Light	Moderate
D	HPLZ1	211	0	50	347	0.591	-0.012	0.006	0.601	18	18	14	8	-0.002	0.006	-0.001	1	0.106	0.085	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	347	0.592	-0.008	0.01	0.601	17	17	14	8					0.100	0.085	0.046	Light	Light	Moderate
D	HPLZ1	212	675	50	347	0.603	-0.012	0.011	0.612	17	17	15	7	0.011	-0.004	0.001	0	0.105	0.089	0.044	Light	Light	Moderate
A	HPLZ1	213	1350	50	347	0.583	-0.011	0.015	0.593	17	18	15	8					0.104	0.087	0.045	Light	Light	Moderate
D	HPLZ1	213	1350	50	347	0.585	-0.003	0.012	0.594	18	18	14	7	0.002	0.008	-0.003	1	0.107	0.086	0.043	Light	Light	Light
A	HPLZ1	221	0	100	347	0.651	-0.01	0.006	0.658	17	17	13	8					0.109	0.087	0.052	Light	Light	Moderate
D	HPLZ1	221	0	100	347	0.649	-0.008	0.004	0.656	17	17	13	8	-0.002	0.002	-0.002	0	0.112	0.087	0.052	Light	Light	Moderate
A	HPLZ1	222	675	100	347	0.644	-0.015	0.008	0.651	16	16	14	7					0.105	0.089	0.049	Light	Light	Moderate
D	HPLZ1	222	675	100	347	0.641	-0.012	0.013	0.648	17	17	13	8	-0.003	0.003	0.005	1	0.111	0.085	0.049	Light	Light	Moderate
A	HPLZ1	223	1350	100	347	0.642	-0.009	0.014	0.649	17	17	13	7					0.108	0.087	0.048	Light	Light	Moderate
D	HPLZ1	223	1350	100	347	0.641	-0.011	0.014	0.647	17	17	13	8	-0.001	-0.002	0	0	0.109	0.082	0.049	Light	Light	Moderate
A	HPLZ1	231	0	150	347	0.673	-0.01	0.007	0.678	17	17	12	8					0.114	0.084	0.054	Light	Light	Moderate
D	HPLZ1	231	0	150	347	0.669	-0.011	0.004	0.675	16	16	13	8	-0.004	-0.001	-0.003	-1	0.110	0.087	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	347	0.673	-0.017	0.01	0.680	17	17	14	8					0.112	0.095	0.057	Light	Light	Moderate
D	HPLZ1	232	675	150	347	0.657	-0.015	0.013	0.664	17	17	13	8	-0.016	0.002	0.003	0	0.115	0.088	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	347	0.675	-0.014	0.015	0.681	16	16	13	8					0.109	0.086	0.053	Light	Light	Moderate
D	HPLZ1	233	1350	150	347	0.672	-0.017	0.012	0.677	18	18	13	8	-0.003	-0.003	-0.003	2	0.120	0.086	0.054	Light	Light	Moderate
A	HPLZ1	241	0	250	347	0.698	-0.01	0.007	0.703	16	16	12	9					0.115	0.085	0.062	Light	Light	Moderate
D	HPLZ1	241	0	250	347	0.718	-0.008	0.002	0.723	15	15	13	9	0.02	0.002	-0.005	-1	0.109	0.091	0.063	Light	Light	Moderate
A	HPLZ1	242	675	250	347	0.701	-0.021	0.008	0.706	16	16	13	9					0.111	0.091	0.061	Light	Light	Moderate
D	HPLZ1	242	675	250	347	0.695	-0.017	0.01	0.700	16	16	13	8	-0.006	0.004	0.002	0	0.114	0.089	0.058	Light	Light	Moderate
A	HPLZ1	243	1350	250	347	0.708	-0.011	0.009	0.712	14	14	12	8					0.102	0.085	0.060	Light	Light	Moderate
D	HPLZ1	243	1350	250	347	0.708	-0.014	0.008	0.713	15	16	12	9	0	-0.003	-0.001	1	0.111	0.086	0.062	Light	Light	Moderate
A	HPLZ2	301	0	25	347	0.539	-0.009	0.009	0.550	19	19	15	8					0.104	0.082	0.047	Light	Light	Moderate
D	HPLZ2	301	0	25	347	0.528	0.001	-0.004	0.540	20	20	15	9	-0.011	0.01	-0.013	1	0.107	0.081	0.046	Light	Light	Moderate
A	HPLZ2	302	675	25	347	0.548	-0.016	0.008	0.559	17	17	15	8					0.096	0.084	0.043	Light	Light	Light
D	HPLZ2	302	675	25	347	0.53	-0.004	0.009	0.542	19	19	15	9	-0.018	0.012	0.001	2	0.103	0.080	0.046	Light	Light	Moderate
A	HPLZ2	303	1350	25	347	0.558	-0.002	-0.003	0.568	18	18	14	8					0.105	0.078	0.044	Light	Light	Moderate
D	HPLZ2	303	1350	25	347	0.554	0.008	-0.004	0.564	18	18	14	8	-0.004	0.01	-0.001	0	0.104	0.076	0.044	Light	Light	Moderate
A	HPLZ2	311	0	50	347	0.577	-0.005	0.011	0.587	20	20	15	8					0.116	0.087	0.047	Light	Light	Moderate
D	HPLZ2	311	0	50	347	0.586	-0.005	0	0.596	18	18	14	8	0.009	0	-0.011	-2	0.109	0.084	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	347	0.594	-0.012	0.012	0.602	17	17	13	8					0.105	0.077	0.045	Light	Light	Moderate
D	HPLZ2	312	675	50	347	0.59	0.001	0.011	0.599	19	19	14	8	-0.004	0.013	-0.001	2	0.114	0.085	0.048	Light	Light	Moderate
A	HPLZ2	313	1350	50	347	0.612	-0.003	0.004	0.620	17	17	14	7					0.107	0.086	0.045	Light	Light	Moderate
D	HPLZ2	313	1350	50	347	0.6	-0.003	0.003	0.608	19	19	13	8	-0.012	0	-0.001	2	0.114	0.080	0.046	Light	Light	Moderate
A	HPLZ2	321	0	100	347	0.637	-0.004	0.011	0.644	18	19	14	8					0.119	0.088	0.052	Light	Light	Moderate
D	HPLZ2	321	0	100	347	0.635	-0.009	0.004	0.643	17	17	14	8	-0.002	-0.005	-0.007	-1	0.111	0.091	0.051	Light	Light	Moderate
A	HPLZ2	322	675	100	347	0.645	-0.006	0.009	0.651	17	17	13	8					0.114	0.085	0.052	Light	Light	Moderate
D	HPLZ2	322	675	100	347	0.639	-0.002	0.01	0.646	18	18	13	8	-0.006	0.004	0.001	1	0.116	0.087	0.051	Light	Light	Moderate
A	HPLZ2	323	1350	100	347	0.65	-0.006	0.007	0.657	15	15	13	8					0.102	0.084	0.053	Light	Light	Moderate
D	HPLZ2	323	1350	100	347	0.648	-0.002	0.006	0.655	17	17	13	8	-0.002	0.004	-0.001	2	0.108	0.088	0.051	Light	Light	Moderate
A	HPLZ2	331	0	150	347	0.666	-0.008	0.009	0.672	17	17	13	8					0.112	0.084	0.056	Light	Light	Moderate
D	HPLZ2	331	0	150	347	0.67	-0.016	0.002	0.676	16	16	13	8	0.004	-0.008	-0.007	-1	0.112	0.089	0.056	Light	Light	Moderate
A	HPLZ2	332	675	150	347	0.662	-0.011	0.014	0.668	17	17	14	8					0.113	0.090	0.054	Light	Light	Moderate
D	HPLZ2	332	675	150	347	0.677	-0.011	0.008	0.683	17	17	13	9	0.015	0	-0.006	0	0.114	0.090	0.058	Light	Light	Moderate
A	HPLZ2	333	1350	150	347	0.676	-0.008	0.006	0.681	16	16	12	8					0.108	0.083	0.058	Light	Light	Moderate
D	HPLZ2	333	1350	150	347	0.677	-0.012	0.008	0.683	17	17	13	8	0.001	-0.004	0.002	1	0.114	0.089	0.056	Light	Light	Moderate
A	HPLZ2	341	0	250	347	0.713	-0.008	0.005	0.717	16	16	12	9					0.113	0.087	0.061	Light	Light	Moderate
D	HPLZ2	341	0	250	347	0.707	-0.015	0.005	0.712	16	16	12	9	-0.006	-0.007	0	0	0.115	0.086	0.063	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	101	0	25	32	0.569	-0.012	0.008	0.579	20	20	15	8					0.116	0.085	0.047	Light	Light	Moderate
E	Runway	101	0	25	32	0.573	-0.019	0.005	0.584	20	20	15	8	0.004	-0.007	-0.003	0	0.114	0.087	0.046	Light	Light	Moderate
A	Runway	102	695	25	32	0.561	-0.013	0.009	0.570	17	18	13	7					0.100	0.077	0.043	Light	Light	Light
E	Runway	102	695	25	32	0.563	0	0.008	0.572	18	18	13	7	0.002	0.013	-0.001	1	0.105	0.077	0.041	Light	Light	Light
A	Runway	103	1389	25	32	0.553	-0.02	0.001	0.563	18	18	14	8					0.099	0.077	0.044	Light	Light	Moderate
E	Runway	103	1389	25	32	0.491	0.019	0.001	0.505	21	22	15	10	-0.062	0.039	0	3	0.109	0.073	0.048	Light	Light	Moderate
A	Runway	104	2064	25	32	0.569	-0.011	-0.003	0.578	17	17	14	8					0.100	0.081	0.044	Light	Light	Moderate
E	Runway	104	2064	25	32	0.509	-0.017	0.004	0.524	21	21	17	9	-0.06	-0.006	0.007	4	0.111	0.087	0.046	Light	Light	Moderate
A	Runway	105	2739	25	32	0.571	-0.013	-0.006	0.580	17	17	13	7					0.096	0.075	0.043	Light	Light	Light
E	Runway	105	2739	25	32	0.572	-0.005	-0.005	0.580	16	16	13	7	0.001	0.008	0.001	-1	0.095	0.073	0.039	Light	Light	Light
A	Runway	106	3300	25	32	0.499	0.014	0.003	0.517	21	22	18	11					0.116	0.091	0.058	Light	Light	Moderate
E	Runway	106	3300	25	32	0.496	0.013	0.006	0.514	20	21	19	11	-0.003	-0.001	0.003	-1	0.108	0.096	0.058	Light	Light	Moderate
A	Runway	107	3875	25	32	0.587	0.004	0.003	0.594	16	16	12	7					0.097	0.071	0.044	Light	Light	Moderate
E	Runway	107	3875	25	32	0.589	0.003	0.002	0.596	16	16	12	7	0.002	-0.001	-0.001	0	0.097	0.074	0.042	Light	Light	Light
A	Runway	108	4450	25	32	0.613	-0.011	0	0.619	16	16	12	7					0.098	0.073	0.040	Light	Light	Light
E	Runway	108	4450	25	32	0.621	-0.006	0.001	0.627	16	16	12	7	0.008	0.005	0.001	0	0.099	0.075	0.041	Light	Light	Light
A	Runway	111	0	50	32	0.606	-0.013	0.01	0.615	18	19	14	8					0.115	0.087	0.050	Light	Light	Moderate
E	Runway	111	0	50	32	0.602	-0.012	0.011	0.611	18	18	14	8	-0.004	0.001	0.001	0	0.110	0.085	0.050	Light	Light	Moderate
A	Runway	112	695	50	32	0.617	-0.01	0.012	0.624	16	16	13	7					0.101	0.080	0.045	Light	Light	Moderate
E	Runway	112	695	50	32	0.613	-0.003	0.009	0.620	17	17	13	7	-0.004	0.007	-0.003	1	0.108	0.079	0.042	Light	Light	Light
A	Runway	113	1389	50	32	0.604	-0.015	0.009	0.612	17	17	13	7					0.101	0.081	0.044	Light	Light	Moderate
E	Runway	113	1389	50	32	0.544	0.007	0	0.556	20	20	14	9	-0.06	0.022	-0.009	3	0.113	0.080	0.053	Light	Light	Moderate
A	Runway	114	2064	50	32	0.622	-0.015	0.005	0.628	17	17	13	7					0.105	0.080	0.044	Light	Light	Moderate
E	Runway	114	2064	50	32	0.543	-0.02	0.004	0.555	20	20	15	9	-0.079	-0.005	-0.001	3	0.110	0.081	0.051	Light	Light	Moderate
A	Runway	115	2739	50	32	0.641	-0.019	0.004	0.647	15	15	13	6					0.099	0.082	0.042	Light	Light	Light
E	Runway	115	2739	50	32	0.628	-0.003	0.004	0.633	16	16	13	6	-0.013	0.016	0	1	0.101	0.079	0.039	Light	Light	Light
A	Runway	116	3300	50	32	0.568	0.002	-0.004	0.581	20	21	16	10					0.120	0.093	0.057	Light	Light	Moderate
E	Runway	116	3300	50	32	0.576	0.008	-0.005	0.589	21	21	16	9	0.008	0.006	-0.001	1	0.125	0.097	0.055	Light	Light	Moderate
A	Runway	117	3875	50	32	0.659	0.006	0.01	0.663	16	16	12	6					0.107	0.078	0.043	Light	Light	Light
E	Runway	117	3875	50	32	0.65	-0.001	0.012	0.655	15	15	12	6	-0.009	-0.007	0.002	-1	0.100	0.080	0.042	Light	Light	Light
A	Runway	118	4450	50	32	0.661	-0.004	0.009	0.666	15	15	12	7					0.102	0.081	0.043	Light	Light	Light
E	Runway	118	4450	50	32	0.669	-0.007	0.008	0.673	15	15	12	6	0.008	-0.003	-0.001	0	0.101	0.083	0.043	Light	Light	Light
A	Runway	121	0	100	32	0.661	-0.014	0.01	0.668	17	17	13	8					0.114	0.087	0.053	Light	Light	Moderate
E	Runway	121	0	100	32	0.667	-0.015	0.006	0.673	16	16	13	7	0.006	-0.001	-0.004	-1	0.110	0.090	0.050	Light	Light	Moderate
A	Runway	122	695	100	32	0.656	-0.014	0.015	0.662	17	17	13	7					0.111	0.086	0.047	Light	Light	Moderate
E	Runway	122	695	100	32	0.663	-0.005	0.013	0.668	16	16	12	7	0.007	0.009	-0.002	-1	0.104	0.082	0.048	Light	Light	Moderate
A	Runway	123	1389	100	32	0.663	-0.018	0.012	0.669	15	15	13	7					0.102	0.088	0.047	Light	Light	Moderate
E	Runway	123	1389	100	32	0.632	0.005	-0.001	0.639	18	18	13	7	-0.031	0.023	-0.013	3	0.115	0.083	0.046	Light	Light	Moderate
A	Runway	124	2064	100	32	0.682	-0.014	0.009	0.687	15	15	12	7					0.105	0.084	0.048	Light	Light	Moderate
E	Runway	124	2064	100	32	0.617	-0.006	0.003	0.626	20	21	14	8	-0.065	0.008	-0.006	5	0.129	0.090	0.053	Light	Light	Moderate
A	Runway	125	2739	100	32	0.685	-0.014	0.01	0.690	16	16	12	7					0.107	0.086	0.047	Light	Light	Moderate
E	Runway	125	2739	100	32	0.675	-0.007	0.009	0.679	16	16	12	7	-0.01	0.007	-0.001	0	0.105	0.078	0.045	Light	Light	Moderate
A	Runway	126	3300	100	32	0.681	-0.012	0.005	0.687	15	15	13	7					0.105	0.089	0.048	Light	Light	Moderate
E	Runway	126	3300	100	32	0.669	0	0.005	0.675	15	15	13	7	-0.012	0.012	0	0	0.104	0.091	0.048	Light	Light	Moderate
A	Runway	127	3875	100	32	0.708	-0.003	0.017	0.712	15	15	12	7					0.103	0.089	0.048	Light	Light	Moderate
E	Runway	127	3875	100	32	0.692	-0.002	0.02	0.696	15	15	12	7	-0.016	0.001	0.003	0	0.102	0.083	0.046	Light	Light	Moderate
A	Runway	128	4450	100	32	0.721	-0.001	0.014	0.723	13	13	12	7					0.097	0.086	0.048	Light	Light	Moderate
E	Runway	128	4450	100	32	0.715	-0.005	0.009	0.717	14	14	11	7	-0.006	-0.004	-0.005	1	0.102	0.081	0.049	Light	Light	Moderate
A	Runway	131	0	150	32	0.694	-0.01	0.009	0.698	17	17	13	8					0.116	0.087	0.054	Light	Light	Moderate
E	Runway	131	0	150	32	0.692	-0.01	0.011	0.696	16	17	12	8	-0.002	0	0.002	-1	0.115	0.081	0.054	Light	Light	Moderate
A	Runway	132	695	150	32	0.692	-0.019	0.017	0.697	15	15	13	7					0.106	0.087	0.052	Light	Light	Moderate
E	Runway	132	695	150	32	0.687	-0.006	0.014	0.691	14	14	12	7	-0.005	0.013	-0.003	-1	0.099	0.082	0.051	Light	Light	Moderate
A	Runway	133	1389	150	32	0.694	-0.007	0.013	0.698	15	15	12	8					0.105	0.086	0.053	Light	Light	Moderate
E	Runway	133	1389	150	32	0.669	-0.009	0.007	0.675	16	16	13	7	-0.025	-0.002	-0.006	1	0.106	0.088	0.050	Light	Light	Moderate
A	Runway	134	2064	150	32	0.694	-0.013	0.011	0.698	15	15	12	7					0.101	0.086	0.052	Light	Light	Moderate
E	Runway	134	2064	150	32	0.67	-0.008	0.005	0.677	17	17	14	8	-0.024	0.005	-0.006	2	0.115	0.094	0.053	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification				
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W		
										(% [UVW])															
A	Runway	135	2739	150	32	0.709	-0.017	0.006	0.712	15	15	12	7							0.105	0.088	0.053	Light	Light	Moderate
E	Runway	135	2739	150	32	0.723	-0.011	0.01	0.726	14	14	12	7	0.014	0.006	0.004	-1			0.099	0.084	0.050	Light	Light	Moderate
A	Runway	136	3300	150	32	0.712	-0.006	0.011	0.716	14	14	13	7							0.103	0.094	0.051	Light	Light	Moderate
E	Runway	136	3300	150	32	0.719	-0.006	0.012	0.722	14	14	12	7	0.007	0	0.001	0			0.098	0.090	0.050	Light	Light	Moderate
A	Runway	137	3875	150	32	0.736	0.001	0.016	0.738	13	14	11	7							0.100	0.083	0.053	Light	Light	Moderate
E	Runway	137	3875	150	32	0.736	0.003	0.021	0.739	14	14	12	7	0	0.002	0.005	1			0.101	0.087	0.054	Light	Light	Moderate
A	Runway	138	4450	150	32	0.732	0	0.009	0.734	13	13	11	7							0.098	0.082	0.052	Light	Light	Moderate
E	Runway	138	4450	150	32	0.735	-0.006	0.012	0.737	14	14	11	7	0.003	-0.006	0.003	1			0.104	0.083	0.055	Light	Light	Moderate
A	Runway	141	0	250	32	0.736	-0.021	0.011	0.741	15	15	13	9							0.113	0.093	0.064	Light	Light	Moderate
E	Runway	141	0	250	32	0.722	-0.019	0.01	0.725	14	14	11	8	-0.014	0.002	-0.001	-1			0.102	0.083	0.061	Light	Light	Moderate
A	Runway	142	695	250	32	0.712	-0.013	0.011	0.716	15	15	12	9							0.107	0.084	0.061	Light	Light	Moderate
E	Runway	142	695	250	32	0.722	-0.009	0.01	0.725	14	14	12	8	0.01	0.004	-0.001	-1			0.102	0.084	0.060	Light	Light	Moderate
A	Runway	143	1389	250	32	0.727	-0.017	0.011	0.732	14	14	13	8							0.105	0.092	0.062	Light	Light	Moderate
E	Runway	143	1389	250	32	0.708	-0.013	0.01	0.712	15	15	12	8	-0.019	0.004	-0.001	1			0.105	0.087	0.059	Light	Light	Moderate
A	Runway	144	2064	250	32	0.731	-0.009	0.01	0.734	14	14	12	8							0.105	0.089	0.061	Light	Light	Moderate
E	Runway	144	2064	250	32	0.724	-0.015	0.009	0.727	14	15	12	8	-0.007	-0.006	-0.001	0			0.106	0.087	0.058	Light	Light	Moderate
A	Runway	145	2739	250	32	0.749	-0.018	0.007	0.751	14	14	11	8							0.104	0.083	0.057	Light	Light	Moderate
E	Runway	145	2739	250	32	0.74	-0.011	0.012	0.742	13	13	11	8	-0.009	0.007	0.005	-1			0.099	0.082	0.056	Light	Light	Moderate
A	Runway	146	3300	250	32	0.75	-0.011	0.012	0.752	13	13	12	8							0.098	0.090	0.060	Light	Light	Moderate
E	Runway	146	3300	250	32	0.752	-0.016	0.014	0.754	14	14	12	8	0.002	-0.005	0.002	1			0.103	0.088	0.059	Light	Light	Moderate
A	Runway	147	3875	250	32	0.761	-0.001	0.013	0.763	13	13	11	8							0.102	0.085	0.058	Light	Light	Moderate
E	Runway	147	3875	250	32	0.759	-0.006	0.017	0.761	14	14	11	8	-0.002	-0.005	0.004	1			0.104	0.085	0.061	Light	Light	Moderate
A	Runway	148	4450	250	32	0.758	-0.005	0.013	0.759	15	15	11	8							0.112	0.082	0.061	Light	Light	Moderate
E	Runway	148	4450	250	32	0.768	-0.006	0.01	0.769	13	13	11	8	0.01	-0.001	-0.003	-2			0.100	0.081	0.059	Light	Light	Moderate
A	HPLZ1	201	0	25	32	0.556	-0.012	0.009	0.566	18	18	14	8							0.101	0.080	0.044	Light	Light	Moderate
E	HPLZ1	201	0	25	32	0.355	0.012	0.003	0.393	25	30	25	17	-0.201	0.024	-0.006	7			0.120	0.100	0.065	Light	Light	Moderate
A	HPLZ1	202	675	25	32	0.583	-0.017	0.01	0.592	16	16	13	7							0.097	0.079	0.042	Light	Light	Light
E	HPLZ1	202	675	25	32	0.56	-0.025	0.014	0.570	19	19	12	7	-0.023	-0.008	0.004	3			0.107	0.071	0.041	Light	Light	Light
A	HPLZ1	203	1350	25	32	0.568	-0.028	0.003	0.577	17	17	14	7							0.095	0.079	0.043	Light	Light	Light
E	HPLZ1	203	1350	25	32	0.556	-0.021	0.004	0.567	18	18	15	8	-0.012	0.007	0.001	1			0.102	0.084	0.043	Light	Light	Light
A	HPLZ1	211	0	50	32	0.608	-0.015	0.013	0.616	16	16	13	7							0.100	0.082	0.043	Light	Light	Light
E	HPLZ1	211	0	50	32	0.461	-0.006	-0.009	0.484	26	28	18	13	-0.147	0.009	-0.022	10			0.136	0.086	0.061	Light	Light	Moderate
A	HPLZ1	212	675	50	32	0.626	-0.012	0.013	0.632	16	16	13	6							0.104	0.082	0.041	Light	Light	Light
E	HPLZ1	212	675	50	32	0.601	-0.023	0.01	0.608	18	18	12	7	-0.025	-0.011	-0.003	2			0.111	0.073	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	32	0.629	-0.025	0.013	0.636	15	15	12	7							0.098	0.078	0.042	Light	Light	Light
E	HPLZ1	213	1350	50	32	0.631	-0.019	0.015	0.638	15	15	14	7	0.002	0.006	0.002	0			0.098	0.089	0.042	Light	Light	Light
A	HPLZ1	221	0	100	32	0.672	-0.014	0.013	0.677	16	16	13	7							0.107	0.085	0.047	Light	Light	Moderate
E	HPLZ1	221	0	100	32	0.61	-0.004	-0.003	0.618	19	19	13	8	-0.062	0.01	-0.016	3			0.120	0.082	0.050	Light	Light	Moderate
A	HPLZ1	222	675	100	32	0.68	-0.019	0.016	0.685	15	15	12	7							0.104	0.083	0.046	Light	Light	Moderate
E	HPLZ1	222	675	100	32	0.667	-0.021	0.007	0.673	16	16	12	7	-0.013	-0.002	-0.009	1			0.111	0.082	0.048	Light	Light	Moderate
A	HPLZ1	223	1350	100	32	0.688	-0.018	0.019	0.692	15	14	13	6							0.100	0.087	0.045	Light	Light	Moderate
E	HPLZ1	223	1350	100	32	0.69	-0.017	0.019	0.694	15	15	12	7	0.002	0.001	0	0			0.107	0.084	0.046	Light	Light	Moderate
A	HPLZ1	231	0	150	32	0.694	-0.018	0.015	0.699	15	15	12	7							0.102	0.085	0.050	Light	Light	Moderate
E	HPLZ1	231	0	150	32	0.681	-0.01	0.001	0.686	16	16	12	7	-0.013	0.008	-0.014	1			0.111	0.082	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	32	0.704	-0.013	0.014	0.708	14	14	12	7							0.101	0.085	0.051	Light	Light	Moderate
E	HPLZ1	232	675	150	32	0.709	-0.015	0.005	0.713	15	15	12	7	0.005	-0.002	-0.009	1			0.106	0.088	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	32	0.711	-0.012	0.016	0.714	15	15	12	7							0.104	0.086	0.051	Light	Light	Moderate
E	HPLZ1	233	1350	150	32	0.727	-0.019	0.018	0.731	15	15	12	7	0.016	-0.007	0.002	0			0.107	0.090	0.053	Light	Light	Moderate
A	HPLZ1	241	0	250	32	0.718	-0.02	0.013	0.722	14	14	12	8							0.104	0.086	0.058	Light	Light	Moderate
E	HPLZ1	241	0	250	32	0.714	-0.011	0.006	0.718	15	15	12	8	-0.004	0.009	-0.007	1			0.107	0.084	0.058	Light	Light	Moderate
A	HPLZ1	242	675	250	32	0.742	-0.015	0.011	0.745	14	14	12	8							0.102	0.090	0.061	Light	Light	Moderate
E	HPLZ1	242	675	250	32	0.731	-0.015	0.007	0.734	14	14	12	8	-0.011	0	-0.004	0			0.103	0.090	0.059	Light	Light	Moderate
A	HPLZ1	243	1350	250	32	0.749	-0.015	0.014	0.751	14	13	11	8							0.101	0.084	0.058	Light	Light	Moderate
E	HPLZ1	243	1350	250	32	0.745	-0.011	0.016	0.748	13	13	12	8	-0.004	0.004	0.002	-1			0.101	0.088	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	32	0.544	-0.015	0.009	0.556	19	19	15	8							0.103	0.084	0.044	Light	Light	Moderate
E	HPLZ2	301	0	25	32	0.244	-0.008	-0.018	0.341	27	48	33	31	-0.3	0.007	-0.027	8			0.162	0.114	0.104	Light	Light	Severe

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	HPLZ1	201	0	25	167	0.573	-0.017	0.005	0.581	17	17	13	7					0.100	0.073	0.042	Light	Light	Light
E	HPLZ1	201	0	25	167	0.548	0.003	0.008	0.558	17	17	13	8	-0.025	0.02	0.003	0	0.097	0.073	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	167	0.545	-0.009	0	0.555	18	18	13	8					0.099	0.072	0.045	Light	Light	Moderate
E	HPLZ1	202	675	25	167	0.543	-0.011	0	0.552	17	18	13	8	-0.002	-0.002	0	-1	0.097	0.073	0.045	Light	Light	Moderate
A	HPLZ1	203	1350	25	167	0.454	-0.027	-0.024	0.475	22	23	18	12					0.108	0.085	0.059	Light	Light	Moderate
E	HPLZ1	203	1350	25	167	0.461	-0.026	-0.03	0.482	22	23	17	12	0.007	0.001	-0.006	0	0.109	0.084	0.058	Light	Light	Moderate
A	HPLZ1	211	0	50	167	0.628	-0.016	0.006	0.634	17	16	13	7					0.104	0.083	0.043	Light	Light	Light
E	HPLZ1	211	0	50	167	0.597	0.002	0.011	0.605	17	17	14	7	-0.031	0.018	0.005	0	0.102	0.082	0.044	Light	Light	Moderate
A	HPLZ1	212	675	50	167	0.605	-0.011	-0.001	0.612	17	17	12	7					0.106	0.076	0.045	Light	Light	Moderate
E	HPLZ1	212	675	50	167	0.605	-0.008	0.002	0.612	16	16	13	7	0	0.003	0.003	-1	0.101	0.078	0.045	Light	Light	Moderate
A	HPLZ1	213	1350	50	167	0.579	-0.017	-0.02	0.589	18	18	15	8					0.108	0.086	0.048	Light	Light	Moderate
E	HPLZ1	213	1350	50	167	0.603	-0.022	-0.02	0.612	17	17	14	8	0.024	-0.005	0	-1	0.102	0.087	0.047	Light	Light	Moderate
A	HPLZ1	221	0	100	167	0.678	-0.014	0.011	0.682	15	15	13	7					0.105	0.085	0.044	Light	Light	Moderate
E	HPLZ1	221	0	100	167	0.681	-0.004	0.017	0.686	15	15	12	7	0.003	0.01	0.006	0	0.102	0.083	0.046	Light	Light	Moderate
A	HPLZ1	222	675	100	167	0.675	-0.017	0.007	0.680	16	16	13	7					0.108	0.086	0.047	Light	Light	Moderate
E	HPLZ1	222	675	100	167	0.674	-0.018	0.004	0.678	15	15	12	7	-0.001	-0.001	-0.003	-1	0.104	0.082	0.048	Light	Light	Moderate
A	HPLZ1	223	1350	100	167	0.664	-0.011	-0.002	0.668	16	16	12	7					0.107	0.080	0.047	Light	Light	Moderate
E	HPLZ1	223	1350	100	167	0.667	-0.024	0.002	0.671	16	16	12	7	0.003	-0.013	0.004	0	0.105	0.081	0.046	Light	Light	Moderate
A	HPLZ1	231	0	150	167	0.717	-0.016	0.011	0.720	14	14	12	7					0.098	0.086	0.052	Light	Light	Moderate
E	HPLZ1	231	0	150	167	0.712	-0.003	0.016	0.716	14	14	12	7	-0.005	0.013	0.005	0	0.097	0.088	0.050	Light	Light	Moderate
A	HPLZ1	232	675	150	167	0.705	-0.013	0.011	0.709	14	14	12	7					0.102	0.087	0.051	Light	Light	Moderate
E	HPLZ1	232	675	150	167	0.707	-0.017	0.01	0.711	14	13	13	7	0.002	-0.004	-0.001	0	0.096	0.091	0.051	Light	Light	Moderate
A	HPLZ1	233	1350	150	167	0.692	-0.02	0.008	0.697	15	15	12	7					0.106	0.086	0.052	Light	Light	Moderate
E	HPLZ1	233	1350	150	167	0.693	-0.02	0.009	0.697	15	15	12	7	0.001	0	0.001	0	0.103	0.085	0.052	Light	Light	Moderate
A	HPLZ1	241	0	250	167	0.741	-0.012	0.01	0.744	14	14	12	8					0.101	0.088	0.059	Light	Light	Moderate
E	HPLZ1	241	0	250	167	0.735	-0.008	0.019	0.737	14	14	12	8	-0.006	0.004	0.009	0	0.100	0.085	0.058	Light	Light	Moderate
A	HPLZ1	242	675	250	167	0.734	-0.015	0.006	0.737	14	14	11	8					0.102	0.084	0.063	Light	Light	Moderate
E	HPLZ1	242	675	250	167	0.749	-0.025	0.005	0.752	13	13	11	8	0.015	-0.01	-0.001	-1	0.100	0.086	0.060	Light	Light	Moderate
A	HPLZ1	243	1350	250	167	0.728	-0.018	0.005	0.731	14	14	12	8					0.104	0.085	0.059	Light	Light	Moderate
E	HPLZ1	243	1350	250	167	0.731	-0.021	0.01	0.735	15	15	12	8	0.003	-0.003	0.005	1	0.108	0.086	0.059	Light	Light	Moderate
A	HPLZ2	301	0	25	167	0.571	-0.004	0.006	0.580	17	17	14	7					0.098	0.078	0.042	Light	Light	Light
E	HPLZ2	301	0	25	167	0.517	0.022	0.038	0.531	17	18	15	8	-0.054	0.026	0.032	0	0.093	0.082	0.043	Light	Light	Light
A	HPLZ2	302	675	25	167	0.565	-0.005	-0.002	0.574	17	18	13	8					0.101	0.072	0.043	Light	Light	Light
E	HPLZ2	302	675	25	167	0.574	-0.005	0.001	0.582	16	16	13	7	0.009	0	0.003	-1	0.095	0.077	0.042	Light	Light	Light
A	HPLZ2	303	1350	25	167	0.559	-0.001	0.01	0.568	17	17	12	7					0.096	0.071	0.042	Light	Light	Light
E	HPLZ2	303	1350	25	167	0.566	-0.011	0.007	0.575	17	17	13	7	0.007	-0.01	-0.003	0	0.095	0.076	0.042	Light	Light	Light
A	HPLZ2	311	0	50	167	0.629	-0.009	0.007	0.635	16	16	12	7					0.102	0.078	0.042	Light	Light	Light
E	HPLZ2	311	0	50	167	0.58	0.009	0.046	0.590	16	16	14	7	-0.049	0.018	0.039	0	0.096	0.082	0.039	Light	Light	Light
A	HPLZ2	312	675	50	167	0.615	-0.016	0.004	0.622	17	17	12	7					0.103	0.076	0.042	Light	Light	Light
E	HPLZ2	312	675	50	167	0.63	-0.012	0.006	0.636	16	16	12	7	0.015	0.004	0.002	-1	0.103	0.078	0.043	Light	Light	Light
A	HPLZ2	313	1350	50	167	0.632	-0.009	0.014	0.638	16	16	13	7					0.103	0.085	0.042	Light	Light	Light
E	HPLZ2	313	1350	50	167	0.63	-0.012	0.012	0.636	15	15	13	7	-0.002	-0.003	-0.002	-1	0.093	0.080	0.044	Light	Light	Moderate
A	HPLZ2	321	0	100	167	0.676	-0.018	0.01	0.681	15	15	12	7					0.102	0.078	0.046	Light	Light	Moderate
E	HPLZ2	321	0	100	167	0.647	-0.002	0.04	0.654	15	15	12	7	-0.029	0.016	0.03	0	0.101	0.081	0.045	Light	Light	Moderate
A	HPLZ2	322	675	100	167	0.688	-0.017	0.006	0.692	14	14	12	7					0.100	0.087	0.046	Light	Light	Moderate
E	HPLZ2	322	675	100	167	0.67	-0.007	0.009	0.675	15	15	12	7	-0.018	0.01	0.003	1	0.101	0.080	0.048	Light	Light	Moderate
A	HPLZ2	323	1350	100	167	0.676	-0.015	0.012	0.681	15	15	12	7					0.102	0.083	0.047	Light	Light	Moderate
E	HPLZ2	323	1350	100	167	0.673	-0.021	0.015	0.678	15	15	12	7	-0.003	-0.006	0.003	0	0.100	0.084	0.046	Light	Light	Moderate
A	HPLZ2	331	0	150	167	0.702	-0.019	0.01	0.706	15	15	12	7					0.105	0.087	0.050	Light	Light	Moderate
E	HPLZ2	331	0	150	167	0.697	-0.01	0.033	0.702	14	14	12	7	-0.005	0.009	0.023	-1	0.099	0.082	0.050	Light	Light	Moderate
A	HPLZ2	332	675	150	167	0.7	-0.012	0.007	0.703	14	14	11	7					0.097	0.080	0.049	Light	Light	Moderate
E	HPLZ2	332	675	150	167	0.708	-0.01	0.009	0.711	15	15	12	7	0.008	0.002	0.002	1	0.104	0.084	0.051	Light	Light	Moderate
A	HPLZ2	333	1350	150	167	0.707	-0.018	0.013	0.711	15	15	12	7					0.105	0.085	0.051	Light	Light	Moderate
E	HPLZ2	333	1350	150	167	0.691	-0.018	0.014	0.696	14	14	12	7	-0.016	0	0.001	-1	0.100	0.086	0.051	Light	Light	Moderate
A	HPLZ2	341	0	250	167	0.732	-0.009	0.008	0.734	14	14	11	8					0.100	0.080	0.059	Light	Light	Moderate
E	HPLZ2	341	0	250	167	0.735	-0.012	0.025	0.738	14	14	12	8	0.003	-0.003	0.017	0	0.103	0.085	0.058	Light	Light	Moderate

Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	SLZ2	533	1150	150	167	0.69	-0.021	0.014	0.696	15	15	13	7					0.106	0.092	0.052	Light	Light	Moderate
E	SLZ2	533	1150	150	167	0.695	-0.018	0.014	0.700	15	15	12	8	0.005	0.003	0	0	0.104	0.087	0.054	Light	Light	Moderate
A	SLZ2	541	0	250	167	0.718	-0.022	0.016	0.722	14	14	12	8					0.103	0.089	0.059	Light	Light	Moderate
E	SLZ2	541	0	250	167	0.722	-0.019	0.012	0.726	14	14	12	8	0.004	0.003	-0.004	0	0.100	0.090	0.061	Light	Light	Moderate
A	SLZ2	542	575	250	167	0.711	-0.019	0.01	0.715	14	14	12	8					0.100	0.087	0.060	Light	Light	Moderate
E	SLZ2	542	575	250	167	0.712	-0.024	0.014	0.717	15	15	12	9	0.001	-0.005	0.004	1	0.105	0.084	0.063	Light	Light	Moderate
A	SLZ2	543	1150	250	167	0.713	-0.023	0.01	0.718	15	15	13	8					0.105	0.091	0.061	Light	Light	Moderate
E	SLZ2	543	1150	250	167	0.718	-0.021	0.011	0.723	14	14	12	9	0.005	0.002	0.001	-1	0.099	0.089	0.062	Light	Light	Moderate
A	Runway	101	0	25	212	0.618	-0.006	0.008	0.624	17	17	11	7					0.105	0.071	0.043	Light	Light	Light
E	Runway	101	0	25	212	0.606	0.012	0.013	0.614	20	20	12	8	-0.012	0.018	0.005	3	0.125	0.076	0.049	Light	Light	Moderate
A	Runway	102	695	25	212	0.605	-0.008	0	0.611	17	17	13	7					0.103	0.078	0.042	Light	Light	Light
E	Runway	102	695	25	212	0.55	0.057	-0.004	0.563	17	17	14	9	-0.055	0.065	-0.004	0	0.094	0.076	0.049	Light	Light	Moderate
A	Runway	103	1389	25	212	0.584	-0.008	0.005	0.592	17	17	13	7					0.099	0.077	0.042	Light	Light	Light
E	Runway	103	1389	25	212	0.577	0.013	0.003	0.585	17	17	13	7	-0.007	0.021	-0.002	0	0.098	0.076	0.043	Light	Light	Light
A	Runway	104	2064	25	212	0.561	0.001	0.01	0.570	19	19	13	8					0.108	0.075	0.043	Light	Light	Light
E	Runway	104	2064	25	212	0.483	-0.022	0.013	0.503	23	24	19	11	-0.078	-0.023	0.003	-4	0.122	0.093	0.054	Light	Light	Moderate
A	Runway	105	2739	25	212	0.514	-0.006	0.005	0.526	20	20	14	9					0.107	0.073	0.045	Light	Light	Moderate
E	Runway	105	2739	25	212	0.522	-0.004	0.01	0.535	19	19	15	9	0.008	0.002	0.005	-1	0.104	0.078	0.048	Light	Light	Moderate
A	Runway	106	3300	25	212	0.521	0.083	-0.007	0.539	21	21	13	10					0.112	0.068	0.053	Light	Light	Moderate
E	Runway	106	3300	25	212	0.515	0.083	-0.006	0.534	20	21	12	10	-0.006	0	0.001	-1	0.113	0.066	0.053	Light	Light	Moderate
A	Runway	107	3875	25	212	0.553	0.01	-0.007	0.563	19	19	13	8					0.106	0.073	0.046	Light	Light	Moderate
E	Runway	107	3875	25	212	0.556	0.005	-0.009	0.565	18	18	13	8	0.003	-0.005	-0.002	-1	0.104	0.073	0.046	Light	Light	Moderate
A	Runway	108	4450	25	212	0.563	-0.007	0.001	0.573	19	19	14	8					0.110	0.079	0.044	Light	Light	Moderate
E	Runway	108	4450	25	212	0.577	-0.015	0	0.586	18	18	13	8	0.014	-0.008	-0.001	-1	0.104	0.076	0.046	Light	Light	Moderate
A	Runway	111	0	50	212	0.648	-0.001	0.01	0.652	15	15	11	7					0.100	0.073	0.043	Light	Light	Light
E	Runway	111	0	50	212	0.625	0.011	0.003	0.633	18	19	13	9	-0.023	0.012	-0.007	3	0.120	0.079	0.055	Light	Light	Moderate
A	Runway	112	695	50	212	0.636	-0.005	0.005	0.641	15	15	12	7					0.098	0.075	0.044	Light	Light	Moderate
E	Runway	112	695	50	212	0.611	0.037	-0.004	0.619	16	16	12	8	-0.025	0.042	-0.009	1	0.100	0.075	0.050	Light	Light	Moderate
A	Runway	113	1389	50	212	0.635	-0.008	0.01	0.641	16	16	13	7					0.103	0.083	0.044	Light	Light	Moderate
E	Runway	113	1389	50	212	0.643	0.001	0.002	0.649	16	16	13	7	0.008	0.009	-0.008	0	0.104	0.083	0.046	Light	Light	Moderate
A	Runway	114	2064	50	212	0.611	-0.004	0.009	0.618	19	18	13	7					0.114	0.082	0.045	Light	Light	Moderate
E	Runway	114	2064	50	212	0.542	-0.015	0.002	0.557	22	23	17	11	-0.069	-0.011	-0.007	3	0.127	0.092	0.059	Light	Light	Moderate
A	Runway	115	2739	50	212	0.595	-0.003	0.005	0.602	18	18	12	8					0.109	0.073	0.047	Light	Light	Moderate
E	Runway	115	2739	50	212	0.585	-0.012	0.009	0.593	18	18	12	8	-0.01	-0.009	0.004	0	0.107	0.073	0.048	Light	Light	Moderate
A	Runway	116	3300	50	212	0.556	0.032	-0.028	0.570	22	23	13	10					0.134	0.075	0.059	Light	Light	Moderate
E	Runway	116	3300	50	212	0.554	0.031	-0.027	0.568	23	24	14	10	-0.002	-0.001	0.001	1	0.136	0.077	0.057	Light	Light	Moderate
A	Runway	117	3875	50	212	0.603	-0.011	0	0.610	16	17	12	7					0.101	0.075	0.043	Light	Light	Light
E	Runway	117	3875	50	212	0.618	-0.011	-0.002	0.625	16	16	13	7	0.015	0	-0.002	0	0.100	0.080	0.044	Light	Light	Moderate
A	Runway	118	4450	50	212	0.634	-0.019	0.006	0.641	17	17	13	7					0.108	0.085	0.043	Light	Light	Light
E	Runway	118	4450	50	212	0.618	-0.021	0.008	0.625	16	16	13	7	-0.016	-0.002	0.002	-1	0.101	0.081	0.045	Light	Light	Moderate
A	Runway	121	0	100	212	0.699	-0.005	0.008	0.702	15	15	11	7					0.107	0.078	0.049	Light	Light	Moderate
E	Runway	121	0	100	212	0.694	0.004	-0.001	0.698	17	17	12	8	-0.005	0.009	-0.009	2	0.116	0.082	0.053	Light	Light	Moderate
A	Runway	122	695	100	212	0.698	-0.008	0.006	0.702	15	15	12	7					0.107	0.083	0.050	Light	Light	Moderate
E	Runway	122	695	100	212	0.687	0.008	-0.003	0.691	15	15	12	7	-0.011	0.016	-0.009	0	0.105	0.083	0.048	Light	Light	Moderate
A	Runway	123	1389	100	212	0.693	-0.009	0.01	0.697	15	15	13	7					0.105	0.088	0.048	Light	Light	Moderate
E	Runway	123	1389	100	212	0.689	0.003	0.001	0.693	14	14	12	7	-0.004	0.012	-0.009	-1	0.097	0.081	0.048	Light	Light	Moderate
A	Runway	124	2064	100	212	0.66	-0.012	0.006	0.665	17	17	12	7					0.115	0.080	0.049	Light	Light	Moderate
E	Runway	124	2064	100	212	0.65	-0.007	-0.006	0.657	18	18	13	8	-0.01	0.005	-0.012	1	0.121	0.085	0.051	Light	Light	Moderate
A	Runway	125	2739	100	212	0.659	-0.004	0.007	0.664	17	17	12	7					0.113	0.077	0.046	Light	Light	Moderate
E	Runway	125	2739	100	212	0.663	-0.012	0.01	0.668	16	16	12	7	0.004	-0.008	0.003	-1	0.108	0.078	0.048	Light	Light	Moderate
A	Runway	126	3300	100	212	0.625	-0.018	-0.023	0.633	18	18	14	8					0.114	0.085	0.048	Light	Light	Moderate
E	Runway	126	3300	100	212	0.636	-0.017	-0.021	0.644	17	17	14	8	0.011	0.001	0.002	-1	0.109	0.088	0.048	Light	Light	Moderate
A	Runway	127	3875	100	212	0.661	-0.014	0.005	0.666	15	15	12	7					0.101	0.077	0.048	Light	Light	Moderate
E	Runway	127	3875	100	212	0.664	-0.02	0.008	0.669	15	15	12	7	0.003	-0.006	0.003	0	0.103	0.083	0.048	Light	Light	Moderate
A	Runway	128	4450	100	212	0.684	-0.02	0.009	0.689	15	15	12	7					0.102	0.086	0.048	Light	Light	Moderate
E	Runway	128	4450	100	212	0.678	-0.02	0.009	0.683	16	16	12	7	-0.006	0	0	1	0.107	0.083	0.050	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	241	0	250	212	0.756	-0.014	0.005	0.758	13	14	11	8					0.103	0.087	0.061	Light	Light	Moderate
E	HPLZ1	241	0	250	212	0.751	-0.008	0.01	0.754	13	13	12	8	-0.005	0.006	0.005	0	0.101	0.089	0.058	Light	Light	Moderate
A	HPLZ1	242	675	250	212	0.74	-0.012	0.001	0.741	14	14	11	8					0.100	0.079	0.057	Light	Light	Moderate
E	HPLZ1	242	675	250	212	0.743	-0.008	0.004	0.745	15	15	12	8	0.003	0.004	0.003	1	0.110	0.088	0.057	Light	Light	Moderate
A	HPLZ1	243	1350	250	212	0.736	-0.021	0.005	0.738	14	14	11	8					0.104	0.082	0.059	Light	Light	Moderate
E	HPLZ1	243	1350	250	212	0.739	-0.02	0.005	0.741	13	13	11	8	0.003	0.001	0	-1	0.099	0.081	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	212	0.585	-0.003	0.002	0.594	18	18	14	7					0.106	0.082	0.043	Light	Light	Light
E	HPLZ2	301	0	25	212	0.51	-0.053	0.047	0.530	19	19	18	8	-0.075	-0.05	0.045	1	0.098	0.094	0.045	Light	Light	Moderate
A	HPLZ2	302	675	25	212	0.546	-0.005	-0.004	0.557	19	19	14	8					0.107	0.080	0.046	Light	Light	Moderate
E	HPLZ2	302	675	25	212	0.513	-0.014	0.005	0.528	19	19	17	9	-0.033	-0.009	0.009	0	0.102	0.088	0.049	Light	Light	Moderate
A	HPLZ2	303	1350	25	212	0.467	-0.001	0.003	0.490	21	22	20	14					0.106	0.100	0.067	Light	Light	Moderate
E	HPLZ2	303	1350	25	212	0.471	0	0.007	0.494	21	22	20	14	0.004	0.001	0.004	0	0.108	0.097	0.069	Light	Light	Moderate
A	HPLZ2	311	0	50	212	0.627	-0.004	0.005	0.633	17	17	12	7					0.106	0.077	0.046	Light	Light	Moderate
E	HPLZ2	311	0	50	212	0.569	-0.031	0.045	0.583	19	19	16	8	-0.058	-0.027	0.04	2	0.113	0.093	0.045	Light	Light	Moderate
A	HPLZ2	312	675	50	212	0.591	-0.012	0.003	0.600	19	19	14	8					0.113	0.082	0.049	Light	Light	Moderate
E	HPLZ2	312	675	50	212	0.561	-0.011	0.008	0.573	19	20	15	9	-0.03	0.001	0.005	0	0.112	0.086	0.051	Light	Light	Moderate
A	HPLZ2	313	1350	50	212	0.542	0.004	-0.017	0.557	20	21	16	11					0.117	0.091	0.061	Light	Light	Moderate
E	HPLZ2	313	1350	50	212	0.543	0.012	-0.018	0.557	20	20	16	11	0.001	0.008	-0.001	0	0.112	0.088	0.059	Light	Light	Moderate
A	HPLZ2	321	0	100	212	0.683	-0.006	0.004	0.687	15	15	12	7					0.104	0.083	0.049	Light	Light	Moderate
E	HPLZ2	321	0	100	212	0.63	-0.021	0.037	0.640	18	18	15	8	-0.053	-0.015	0.033	3	0.115	0.094	0.049	Light	Light	Moderate
A	HPLZ2	322	675	100	212	0.64	-0.002	0.004	0.646	18	18	12	8					0.115	0.078	0.052	Light	Light	Moderate
E	HPLZ2	322	675	100	212	0.623	-0.008	0.008	0.630	19	19	13	8	-0.017	-0.006	0.004	1	0.120	0.079	0.053	Light	Light	Moderate
A	HPLZ2	323	1350	100	212	0.65	-0.003	-0.011	0.656	17	17	12	8					0.113	0.079	0.050	Light	Light	Moderate
E	HPLZ2	323	1350	100	212	0.664	-0.003	-0.012	0.669	16	16	12	7	0.014	0	-0.001	-1	0.105	0.082	0.049	Light	Light	Moderate
A	HPLZ2	331	0	150	212	0.705	-0.009	0.003	0.709	15	15	12	8					0.106	0.088	0.054	Light	Light	Moderate
E	HPLZ2	331	0	150	212	0.69	-0.015	0.029	0.696	16	16	13	7	-0.015	-0.006	0.026	1	0.113	0.089	0.050	Light	Light	Moderate
A	HPLZ2	332	675	150	212	0.685	-0.015	0.005	0.690	16	16	12	8					0.107	0.083	0.053	Light	Light	Moderate
E	HPLZ2	332	675	150	212	0.675	-0.012	0.008	0.680	17	17	11	8	-0.01	0.003	0.003	1	0.118	0.078	0.055	Light	Light	Moderate
A	HPLZ2	333	1350	150	212	0.692	-0.013	-0.007	0.696	15	15	13	7					0.106	0.091	0.050	Light	Light	Moderate
E	HPLZ2	333	1350	150	212	0.697	-0.013	-0.007	0.701	15	15	12	7	0.005	0	0	0	0.104	0.083	0.052	Light	Light	Moderate
A	HPLZ2	341	0	250	212	0.746	-0.009	0.002	0.748	13	13	11	8					0.101	0.084	0.058	Light	Light	Moderate
E	HPLZ2	341	0	250	212	0.751	-0.01	0.023	0.754	14	14	12	7	0.005	-0.001	0.021	1	0.103	0.092	0.055	Light	Light	Moderate
A	HPLZ2	342	675	250	212	0.739	-0.015	0.004	0.741	14	14	11	8					0.103	0.083	0.060	Light	Light	Moderate
E	HPLZ2	342	675	250	212	0.735	-0.021	0.009	0.738	15	15	12	8	-0.004	-0.006	0.005	1	0.107	0.086	0.057	Light	Light	Moderate
A	HPLZ2	343	1350	250	212	0.733	-0.017	-0.003	0.736	14	14	12	8					0.104	0.090	0.057	Light	Light	Moderate
E	HPLZ2	343	1350	250	212	0.733	-0.023	0.001	0.736	14	14	12	8	0	-0.006	0.004	0	0.103	0.089	0.060	Light	Light	Moderate
A	SLZ1	401	0	25	212	0.56	-0.017	0.006	0.569	19	19	13	8					0.109	0.075	0.044	Light	Light	Moderate
E	SLZ1	401	0	25	212	0.562	-0.014	0.007	0.572	19	19	13	8	0.002	0.003	0.001	0	0.111	0.076	0.045	Light	Light	Moderate
A	SLZ1	402	575	25	212	0.551	-0.004	0.005	0.562	19	19	14	8					0.107	0.081	0.046	Light	Light	Moderate
E	SLZ1	402	575	25	212	0.555	-0.01	0.006	0.565	18	18	15	8	0.004	-0.006	0.001	-1	0.102	0.085	0.044	Light	Light	Moderate
A	SLZ1	403	1150	25	212	0.583	-0.004	-0.001	0.591	17	18	13	7					0.104	0.078	0.044	Light	Light	Moderate
E	SLZ1	403	1150	25	212	0.588	-0.008	0.002	0.596	18	18	13	7	0.005	-0.004	0.003	1	0.105	0.076	0.043	Light	Light	Light
A	SLZ1	411	0	50	212	0.612	-0.013	0.006	0.619	17	17	13	7					0.106	0.078	0.045	Light	Light	Moderate
E	SLZ1	411	0	50	212	0.619	-0.016	0.005	0.625	18	18	12	7	0.007	-0.003	-0.001	1	0.110	0.077	0.044	Light	Light	Moderate
A	SLZ1	412	575	50	212	0.604	-0.011	0.005	0.612	18	18	13	7					0.110	0.077	0.044	Light	Light	Moderate
E	SLZ1	412	575	50	212	0.616	-0.011	0.006	0.623	18	18	13	7	0.012	0	0.001	0	0.111	0.083	0.044	Light	Light	Moderate
A	SLZ1	413	1150	50	212	0.63	-0.008	0.003	0.636	17	17	12	7					0.106	0.078	0.043	Light	Light	Light
E	SLZ1	413	1150	50	212	0.638	-0.012	0.005	0.644	16	16	12	7	0.008	-0.004	0.002	-1	0.102	0.078	0.044	Light	Light	Moderate
A	SLZ1	421	0	100	212	0.656	-0.009	0.005	0.661	16	16	12	7					0.106	0.079	0.046	Light	Light	Moderate
E	SLZ1	421	0	100	212	0.68	-0.013	0.006	0.685	16	16	13	7	0.024	-0.004	0.001	0	0.110	0.087	0.048	Light	Light	Moderate
A	SLZ1	422	575	100	212	0.657	-0.015	0.01	0.663	16	15	13	7					0.103	0.083	0.047	Light	Light	Moderate
E	SLZ1	422	575	100	212	0.663	-0.012	0.009	0.668	16	16	13	7	0.006	0.003	-0.001	0	0.104	0.084	0.049	Light	Light	Moderate
A	SLZ1	423	1150	100	212	0.686	-0.013	0.006	0.690	15	15	12	7					0.106	0.085	0.048	Light	Light	Moderate
E	SLZ1	423	1150	100	212	0.68	-0.018	0.008	0.684	15	15	13	7	-0.006	-0.005	0.002	0	0.106	0.086	0.047	Light	Light	Moderate
A	SLZ1	431	0	150	212	0.691	-0.016	0.007	0.695	14	14	12	7					0.095	0.084	0.050	Light	Light	Moderate
E	SLZ1	431	0	150	212	0.692	-0.018	0.007	0.696	14	14	12	7	0.001	-0.002	0	0	0.100	0.083	0.051	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	432	575	150	212	0.697	-0.015	0.008	0.701	14	14	12	7					0.101	0.086	0.052	Light	Light	Moderate
E	SLZ1	432	575	150	212	0.686	-0.017	0.009	0.690	16	16	12	8	-0.011	-0.002	0.001	2	0.108	0.083	0.052	Light	Light	Moderate
A	SLZ1	433	1150	150	212	0.706	-0.019	0.006	0.710	16	16	12	8					0.114	0.083	0.058	Light	Light	Moderate
E	SLZ1	433	1150	150	212	0.709	-0.018	0.008	0.713	15	15	12	8	0.003	0.001	0.002	-1	0.105	0.085	0.054	Light	Light	Moderate
A	SLZ1	441	0	250	212	0.725	-0.018	0.007	0.728	14	14	11	8					0.099	0.083	0.061	Light	Light	Moderate
E	SLZ1	441	0	250	212	0.727	-0.021	0.005	0.730	14	14	11	8	0.002	-0.003	-0.002	0	0.106	0.083	0.059	Light	Light	Moderate
A	SLZ1	442	575	250	212	0.717	-0.017	0.006	0.720	14	14	11	8					0.101	0.081	0.059	Light	Light	Moderate
E	SLZ1	442	575	250	212	0.745	-0.017	0.008	0.749	14	14	13	8	0.028	0	0.002	0	0.103	0.095	0.061	Light	Light	Moderate
A	SLZ1	443	1150	250	212	0.741	-0.017	0.006	0.745	15	15	12	8					0.108	0.089	0.062	Light	Light	Moderate
E	SLZ1	443	1150	250	212	0.73	-0.021	0.008	0.733	14	14	11	8	-0.011	-0.004	0.002	-1	0.105	0.083	0.062	Light	Light	Moderate
A	SLZ2	501	0	25	212	0.555	-0.012	0.005	0.566	18	18	15	8					0.100	0.086	0.045	Light	Light	Moderate
E	SLZ2	501	0	25	212	0.564	-0.012	0.004	0.574	17	17	14	8	0.009	0	-0.001	-1	0.096	0.080	0.044	Light	Light	Moderate
A	SLZ2	502	575	25	212	0.575	-0.007	0.002	0.583	17	17	13	7					0.097	0.076	0.042	Light	Light	Light
E	SLZ2	502	575	25	212	0.576	-0.007	0.001	0.585	18	18	13	7	0.001	0	-0.001	1	0.102	0.078	0.043	Light	Light	Light
A	SLZ2	503	1150	25	212	0.6	-0.011	0.001	0.607	17	17	13	7					0.105	0.077	0.044	Light	Light	Moderate
E	SLZ2	503	1150	25	212	0.595	-0.013	0.005	0.602	17	17	13	7	-0.005	-0.002	0.004	0	0.104	0.079	0.042	Light	Light	Light
A	SLZ2	511	0	50	212	0.605	-0.01	0.007	0.612	17	17	12	8					0.103	0.076	0.046	Light	Light	Moderate
E	SLZ2	511	0	50	212	0.618	-0.009	0.007	0.626	17	17	13	8	0.013	0.001	0	0	0.105	0.083	0.048	Light	Light	Moderate
A	SLZ2	512	575	50	212	0.631	-0.007	0.003	0.637	16	16	13	7					0.103	0.081	0.047	Light	Light	Moderate
E	SLZ2	512	575	50	212	0.619	-0.013	0.005	0.625	16	16	12	7	-0.012	-0.006	0.002	0	0.097	0.074	0.043	Light	Light	Light
A	SLZ2	513	1150	50	212	0.652	-0.009	0.004	0.658	16	16	13	7					0.108	0.084	0.046	Light	Light	Moderate
E	SLZ2	513	1150	50	212	0.65	-0.021	0.007	0.656	16	16	13	7	-0.002	-0.012	0.003	0	0.104	0.083	0.044	Light	Light	Moderate
A	SLZ2	521	0	100	212	0.672	-0.006	0.01	0.677	16	16	13	7					0.107	0.086	0.047	Light	Light	Moderate
E	SLZ2	521	0	100	212	0.67	-0.011	0.01	0.675	16	16	13	7	-0.002	-0.005	0	0	0.106	0.086	0.049	Light	Light	Moderate
A	SLZ2	522	575	100	212	0.68	-0.011	0.003	0.683	15	15	11	7					0.105	0.077	0.048	Light	Light	Moderate
E	SLZ2	522	575	100	212	0.676	-0.015	0.005	0.680	14	14	12	7	-0.004	-0.004	0.002	-1	0.098	0.079	0.048	Light	Light	Moderate
A	SLZ2	523	1150	100	212	0.696	-0.016	0.01	0.701	15	15	13	7					0.106	0.090	0.049	Light	Light	Moderate
E	SLZ2	523	1150	100	212	0.684	-0.019	0.012	0.689	16	16	13	7	-0.012	-0.003	0.002	1	0.107	0.086	0.049	Light	Light	Moderate
A	SLZ2	531	0	150	212	0.695	-0.019	0.008	0.699	15	15	12	8					0.103	0.084	0.053	Light	Light	Moderate
E	SLZ2	531	0	150	212	0.707	-0.017	0.009	0.710	14	14	12	7	0.012	0.002	0.001	-1	0.099	0.082	0.052	Light	Light	Moderate
A	SLZ2	532	575	150	212	0.694	-0.015	0.002	0.698	16	16	12	7					0.109	0.083	0.052	Light	Light	Moderate
E	SLZ2	532	575	150	212	0.698	-0.014	0.007	0.702	15	15	12	7	0.004	0.001	0.005	-1	0.103	0.084	0.051	Light	Light	Moderate
A	SLZ2	533	1150	150	212	0.703	-0.016	0.009	0.708	15	15	13	8					0.106	0.090	0.054	Light	Light	Moderate
E	SLZ2	533	1150	150	212	0.715	-0.018	0.008	0.718	15	15	12	8	0.012	-0.002	-0.001	0	0.105	0.084	0.054	Light	Light	Moderate
A	SLZ2	541	0	250	212	0.724	-0.015	0.007	0.728	13	13	12	8					0.097	0.085	0.061	Light	Light	Moderate
E	SLZ2	541	0	250	212	0.735	-0.021	0.008	0.738	14	14	11	8	0.011	-0.006	0.001	1	0.100	0.082	0.059	Light	Light	Moderate
A	SLZ2	542	575	250	212	0.729	-0.017	0.004	0.732	14	14	11	8					0.102	0.083	0.061	Light	Light	Moderate
E	SLZ2	542	575	250	212	0.719	-0.017	0.008	0.722	14	14	12	8	-0.01	0	0.004	0	0.104	0.085	0.060	Light	Light	Moderate
A	SLZ2	543	1150	250	212	0.728	-0.016	0.007	0.731	14	14	11	9					0.102	0.084	0.063	Light	Light	Moderate
E	SLZ2	543	1150	250	212	0.738	-0.019	0.002	0.741	15	15	12	8	0.01	-0.003	-0.005	1	0.110	0.087	0.060	Light	Light	Moderate
A	Runway	101	0	25	234.5	0.592	-0.004	0.009	0.600	17	17	14	8					0.105	0.083	0.046	Light	Light	Moderate
E	Runway	101	0	25	234.5	0.47	0.041	0.004	0.494	23	24	20	13	-0.122	0.045	-0.005	6	0.120	0.096	0.065	Light	Light	Moderate
A	Runway	102	695	25	234.5	0.578	-0.014	0.003	0.587	17	17	13	8					0.102	0.079	0.045	Light	Light	Moderate
E	Runway	102	695	25	234.5	0.502	0.032	-0.001	0.519	21	22	16	10	-0.076	0.046	-0.004	4	0.113	0.083	0.053	Light	Light	Moderate
A	Runway	103	1389	25	234.5	0.592	-0.004	0.004	0.600	17	17	13	7					0.105	0.080	0.043	Light	Light	Light
E	Runway	103	1389	25	234.5	0.504	0.044	0	0.520	20	20	16	10	-0.088	0.048	-0.004	3	0.104	0.083	0.052	Light	Light	Moderate
A	Runway	104	2064	25	234.5	0.571	-0.004	0.01	0.580	18	18	14	7					0.102	0.081	0.042	Light	Light	Light
E	Runway	104	2064	25	234.5	0.564	0.001	0.001	0.573	18	19	13	8	-0.007	0.005	-0.009	0	0.107	0.077	0.048	Light	Light	Moderate
A	Runway	105	2739	25	234.5	0.527	0.002	0.005	0.540	19	19	15	9					0.104	0.083	0.049	Light	Light	Moderate
E	Runway	105	2739	25	234.5	0.445	-0.01	0.018	0.466	21	23	18	12	-0.082	-0.012	0.013	2	0.106	0.086	0.057	Light	Light	Moderate
A	Runway	106	3300	25	234.5	0.302	0.011	0.001	0.370	26	37	34	25					0.135	0.127	0.094	Light	Light	Severe
E	Runway	106	3300	25	234.5	0.302	0.023	0.004	0.373	26	36	35	25	0	0.012	0.003	0	0.134	0.131	0.094	Light	Light	Severe
A	Runway	107	3875	25	234.5	0.497	-0.004	-0.009	0.513	22	23	17	10					0.117	0.085	0.053	Light	Light	Moderate
E	Runway	107	3875	25	234.5	0.501	0.003	-0.008	0.517	23	23	17	11	0.004	0.007	0.001	1	0.121	0.086	0.055	Light	Light	Moderate
A	Runway	108	4450	25	234.5	0.571	0	-0.006	0.580	18	19	13	8					0.107	0.073	0.045	Light	Light	Moderate
E	Runway	108	4450	25	234.5	0.576	-0.006	-0.007	0.585	17	18	13	8	0.005	-0.006	-0.001	-1	0.103	0.076	0.045	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	111	0	50	234.5	0.629	-0.004	0.011	0.636	17	16	13	8					0.105	0.084	0.049	Light	Light	Moderate
E	Runway	111	0	50	234.5	0.521	0.013	-0.002	0.538	22	23	17	12	-0.108	0.017	-0.013	5	0.124	0.092	0.063	Light	Light	Moderate
A	Runway	112	695	50	234.5	0.61	-0.007	0.007	0.618	17	17	13	8					0.107	0.081	0.047	Light	Light	Moderate
E	Runway	112	695	50	234.5	0.545	0.02	0	0.558	21	21	15	10	-0.065	0.027	-0.007	4	0.119	0.086	0.055	Light	Light	Moderate
A	Runway	113	1389	50	234.5	0.629	-0.004	0.009	0.635	17	17	13	7					0.106	0.082	0.044	Light	Light	Moderate
E	Runway	113	1389	50	234.5	0.553	0.024	-0.004	0.565	18	18	15	9	-0.076	0.028	-0.013	1	0.104	0.086	0.050	Light	Light	Moderate
A	Runway	114	2064	50	234.5	0.629	-0.007	0.01	0.635	17	17	12	7					0.106	0.079	0.044	Light	Light	Moderate
E	Runway	114	2064	50	234.5	0.617	-0.005	-0.001	0.624	17	17	13	7	-0.012	0.002	-0.011	0	0.109	0.082	0.046	Light	Light	Moderate
A	Runway	115	2739	50	234.5	0.57	-0.002	0.002	0.581	19	19	15	9					0.111	0.087	0.052	Light	Light	Moderate
E	Runway	115	2739	50	234.5	0.502	-0.002	0.018	0.519	22	22	17	11	-0.068	0	0.016	3	0.117	0.090	0.059	Light	Light	Moderate
A	Runway	116	3300	50	234.5	0.402	-0.001	-0.016	0.444	29	34	24	19					0.152	0.108	0.084	Light	Light	Severe
E	Runway	116	3300	50	234.5	0.409	0	-0.019	0.450	29	34	24	18	0.007	0.001	-0.003	0	0.154	0.108	0.082	Light	Light	Severe
A	Runway	117	3875	50	234.5	0.589	0.008	-0.004	0.597	19	19	13	8					0.112	0.075	0.046	Light	Light	Moderate
E	Runway	117	3875	50	234.5	0.601	0.008	-0.005	0.608	18	18	12	7	0.012	0	-0.001	-1	0.111	0.074	0.045	Light	Light	Moderate
A	Runway	118	4450	50	234.5	0.645	-0.012	0.002	0.651	16	16	13	7					0.104	0.083	0.044	Light	Light	Moderate
E	Runway	118	4450	50	234.5	0.642	-0.016	0.004	0.648	17	17	12	7	-0.003	-0.004	0.002	1	0.109	0.080	0.044	Light	Light	Moderate
A	Runway	121	0	100	234.5	0.677	-0.001	0.008	0.682	16	16	12	8					0.110	0.084	0.054	Light	Light	Moderate
E	Runway	121	0	100	234.5	0.62	-0.009	-0.003	0.629	20	20	14	9	-0.057	-0.008	-0.011	4	0.127	0.086	0.057	Light	Light	Moderate
A	Runway	122	695	100	234.5	0.674	0.002	0.005	0.678	16	16	12	8					0.110	0.083	0.052	Light	Light	Moderate
E	Runway	122	695	100	234.5	0.639	0.004	0	0.646	18	18	14	8	-0.035	0.002	-0.005	2	0.119	0.088	0.053	Light	Light	Moderate
A	Runway	123	1389	100	234.5	0.678	-0.003	0.01	0.683	17	17	13	7					0.113	0.088	0.051	Light	Light	Moderate
E	Runway	123	1389	100	234.5	0.652	-0.003	-0.004	0.658	18	18	13	8	-0.026	0	-0.014	1	0.115	0.087	0.050	Light	Light	Moderate
A	Runway	124	2064	100	234.5	0.674	-0.011	0.008	0.678	15	15	12	7					0.101	0.081	0.048	Light	Light	Moderate
E	Runway	124	2064	100	234.5	0.691	-0.004	-0.002	0.695	16	16	12	7	0.017	0.007	-0.01	1	0.108	0.085	0.048	Light	Light	Moderate
A	Runway	125	2739	100	234.5	0.656	-0.015	0.005	0.662	16	17	13	8					0.109	0.085	0.053	Light	Light	Moderate
E	Runway	125	2739	100	234.5	0.612	0.002	0.009	0.620	19	20	12	9	-0.044	0.017	0.004	3	0.121	0.077	0.055	Light	Light	Moderate
A	Runway	126	3300	100	234.5	0.606	-0.029	-0.012	0.616	20	21	13	9					0.126	0.082	0.053	Light	Light	Moderate
E	Runway	126	3300	100	234.5	0.621	-0.028	-0.014	0.629	20	20	13	8	0.015	0.001	-0.002	0	0.128	0.079	0.052	Light	Light	Moderate
A	Runway	127	3875	100	234.5	0.66	0.002	0.002	0.664	15	15	12	7					0.099	0.080	0.047	Light	Light	Moderate
E	Runway	127	3875	100	234.5	0.68	0.003	0	0.684	15	15	11	7	0.02	0.001	-0.002	0	0.100	0.076	0.049	Light	Light	Moderate
A	Runway	128	4450	100	234.5	0.681	-0.019	0.011	0.686	15	15	13	7					0.100	0.087	0.050	Light	Light	Moderate
E	Runway	128	4450	100	234.5	0.693	-0.023	0.008	0.698	16	16	12	7	0.012	-0.004	-0.003	1	0.111	0.081	0.052	Light	Light	Moderate
A	Runway	131	0	150	234.5	0.707	-0.007	0.006	0.711	16	16	12	8					0.113	0.084	0.055	Light	Light	Moderate
E	Runway	131	0	150	234.5	0.701	-0.017	0	0.705	16	17	12	8	-0.006	-0.01	-0.006	0	0.117	0.083	0.054	Light	Light	Moderate
A	Runway	132	695	150	234.5	0.718	-0.004	0.007	0.721	15	15	12	8					0.110	0.083	0.054	Light	Light	Moderate
E	Runway	132	695	150	234.5	0.687	0	0.004	0.692	16	16	13	8	-0.031	0.004	-0.003	1	0.113	0.087	0.053	Light	Light	Moderate
A	Runway	133	1389	150	234.5	0.718	-0.015	0.007	0.722	16	16	12	7					0.112	0.088	0.054	Light	Light	Moderate
E	Runway	133	1389	150	234.5	0.685	-0.01	-0.004	0.689	17	17	12	8	-0.033	0.005	-0.011	1	0.115	0.086	0.053	Light	Light	Moderate
A	Runway	134	2064	150	234.5	0.708	-0.013	0.006	0.712	15	15	12	8					0.105	0.088	0.054	Light	Light	Moderate
E	Runway	134	2064	150	234.5	0.71	-0.008	-0.001	0.713	14	14	11	7	0.002	0.005	-0.007	-1	0.101	0.080	0.051	Light	Light	Moderate
A	Runway	135	2739	150	234.5	0.691	-0.025	0.008	0.696	16	16	12	7					0.108	0.086	0.051	Light	Light	Moderate
E	Runway	135	2739	150	234.5	0.678	-0.001	0.014	0.683	17	17	13	8	-0.013	0.024	0.006	1	0.114	0.087	0.053	Light	Light	Moderate
A	Runway	136	3300	150	234.5	0.683	-0.024	0.002	0.688	16	16	12	8					0.108	0.083	0.053	Light	Light	Moderate
E	Runway	136	3300	150	234.5	0.698	-0.027	-0.002	0.703	14	14	12	7	0.015	-0.003	-0.004	-2	0.102	0.086	0.051	Light	Light	Moderate
A	Runway	137	3875	150	234.5	0.695	-0.008	-0.002	0.699	15	15	12	8					0.103	0.082	0.053	Light	Light	Moderate
E	Runway	137	3875	150	234.5	0.706	-0.002	-0.001	0.709	14	13	11	8	0.011	0.006	0.001	-1	0.095	0.078	0.054	Light	Light	Moderate
A	Runway	138	4450	150	234.5	0.712	-0.012	0.005	0.715	15	15	12	7					0.106	0.083	0.053	Light	Light	Moderate
E	Runway	138	4450	150	234.5	0.706	-0.014	0.009	0.709	15	15	11	7	-0.006	-0.002	0.004	0	0.104	0.080	0.051	Light	Light	Moderate
A	Runway	141	0	250	234.5	0.765	-0.004	0.005	0.767	14	14	11	8					0.105	0.087	0.062	Light	Light	Moderate
E	Runway	141	0	250	234.5	0.772	-0.009	0.002	0.773	14	14	11	8	0.007	-0.005	-0.003	0	0.107	0.089	0.059	Light	Light	Moderate
A	Runway	142	695	250	234.5	0.775	-0.005	0.006	0.776	15	15	11	8					0.113	0.086	0.061	Light	Light	Moderate
E	Runway	142	695	250	234.5	0.747	-0.002	0.004	0.749	14	14	11	8	-0.028	0.003	-0.002	-1	0.106	0.079	0.060	Light	Light	Moderate
A	Runway	143	1389	250	234.5	0.761	-0.007	0.006	0.764	14	14	12	8					0.108	0.091	0.061	Light	Light	Moderate
E	Runway	143	1389	250	234.5	0.746	-0.014	-0.003	0.748	14	14	12	7	-0.015	-0.007	-0.009	0	0.104	0.087	0.056	Light	Light	Moderate
A	Runway	144	2064	250	234.5	0.747	-0.007	0.006	0.750	14	14	12	8					0.103	0.089	0.061	Light	Light	Moderate
E	Runway	144	2064	250	234.5	0.749	-0.006	-0.004	0.751	14	14	11	8	0.002	0.001	-0.01	0	0.104	0.086	0.061	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	145	2739	250	234.5	0.74	-0.018	0.005	0.744	14	14	12	8					0.105	0.090	0.061	Light	Light	Moderate
E	Runway	145	2739	250	234.5	0.726	-0.011	0.007	0.729	15	15	12	8	-0.014	0.007	0.002	1	0.110	0.085	0.059	Light	Light	Moderate
A	Runway	146	3300	250	234.5	0.727	-0.023	0.003	0.730	14	14	12	8					0.100	0.086	0.062	Light	Light	Moderate
E	Runway	146	3300	250	234.5	0.714	-0.025	0.008	0.718	14	14	12	8	-0.013	-0.002	0.005	0	0.103	0.085	0.059	Light	Light	Moderate
A	Runway	147	3875	250	234.5	0.727	-0.01	-0.001	0.730	14	14	12	8					0.105	0.084	0.060	Light	Light	Moderate
E	Runway	147	3875	250	234.5	0.721	-0.015	-0.004	0.724	14	14	11	8	-0.006	-0.005	-0.003	0	0.101	0.081	0.060	Light	Light	Moderate
A	Runway	148	4450	250	234.5	0.735	-0.011	0.006	0.738	14	14	12	8					0.105	0.087	0.061	Light	Light	Moderate
E	Runway	148	4450	250	234.5	0.736	-0.016	0.006	0.740	15	15	12	9	0.001	-0.005	0	1	0.108	0.086	0.063	Light	Light	Moderate
A	HPLZ1	201	0	25	234.5	0.597	-0.005	-0.011	0.605	16	16	13	7					0.099	0.080	0.044	Light	Light	Moderate
E	HPLZ1	201	0	25	234.5	0.515	0.022	-0.007	0.528	20	20	16	9	-0.082	0.027	0.004	-4	0.107	0.082	0.049	Light	Light	Moderate
A	HPLZ1	202	675	25	234.5	0.579	-0.009	-0.006	0.587	17	17	13	7					0.099	0.078	0.043	Light	Light	Light
E	HPLZ1	202	675	25	234.5	0.567	-0.013	-0.004	0.576	17	17	13	8	-0.012	-0.004	0.002	0	0.097	0.074	0.045	Light	Light	Moderate
A	HPLZ1	203	1350	25	234.5	0.537	-0.009	0.01	0.549	19	19	14	9					0.104	0.077	0.047	Light	Light	Moderate
E	HPLZ1	203	1350	25	234.5	0.512	-0.004	0.01	0.526	19	20	16	10	-0.025	0.005	0	0	0.104	0.083	0.051	Light	Light	Moderate
A	HPLZ1	211	0	50	234.5	0.64	-0.003	-0.004	0.646	17	17	12	7					0.107	0.080	0.045	Light	Light	Moderate
E	HPLZ1	211	0	50	234.5	0.565	0.01	-0.004	0.575	18	18	14	9	-0.075	0.013	0	1	0.106	0.080	0.051	Light	Light	Moderate
A	HPLZ1	212	675	50	234.5	0.632	-0.015	-0.001	0.638	16	16	12	7					0.104	0.078	0.044	Light	Light	Moderate
E	HPLZ1	212	675	50	234.5	0.621	-0.013	-0.004	0.627	16	16	12	7	-0.011	0.002	-0.003	0	0.103	0.078	0.046	Light	Light	Moderate
A	HPLZ1	213	1350	50	234.5	0.58	-0.019	0.007	0.590	19	19	14	8					0.111	0.085	0.050	Light	Light	Moderate
E	HPLZ1	213	1350	50	234.5	0.554	-0.004	0.006	0.565	19	19	14	9	-0.026	0.015	-0.001	0	0.107	0.077	0.053	Light	Light	Moderate
A	HPLZ1	221	0	100	234.5	0.691	-0.003	0.001	0.695	15	15	12	7					0.105	0.085	0.050	Light	Light	Moderate
E	HPLZ1	221	0	100	234.5	0.658	-0.003	0.001	0.664	17	17	13	8	-0.033	0	0	2	0.111	0.084	0.051	Light	Light	Moderate
A	HPLZ1	222	675	100	234.5	0.69	-0.01	0.002	0.695	16	16	13	7					0.112	0.087	0.048	Light	Light	Moderate
E	HPLZ1	222	675	100	234.5	0.697	-0.009	-0.001	0.701	15	15	13	7	0.007	0.001	-0.003	-1	0.104	0.088	0.048	Light	Light	Moderate
A	HPLZ1	223	1350	100	234.5	0.643	-0.014	0.001	0.649	18	18	13	8					0.114	0.085	0.052	Light	Light	Moderate
E	HPLZ1	223	1350	100	234.5	0.613	-0.008	0.008	0.620	18	18	12	9	-0.03	0.006	0.007	0	0.114	0.077	0.053	Light	Light	Moderate
A	HPLZ1	231	0	150	234.5	0.719	-0.01	-0.001	0.722	15	15	12	7					0.111	0.088	0.053	Light	Light	Moderate
E	HPLZ1	231	0	150	234.5	0.698	-0.012	0.003	0.702	15	15	12	7	-0.021	-0.002	0.004	0	0.107	0.087	0.051	Light	Light	Moderate
A	HPLZ1	232	675	150	234.5	0.714	-0.01	0.004	0.719	15	15	13	8					0.106	0.093	0.054	Light	Light	Moderate
E	HPLZ1	232	675	150	234.5	0.725	-0.011	-0.003	0.727	14	14	12	7	0.011	-0.001	-0.007	-1	0.101	0.085	0.050	Light	Light	Moderate
A	HPLZ1	233	1350	150	234.5	0.696	-0.01	0	0.701	16	16	13	8					0.111	0.088	0.053	Light	Light	Moderate
E	HPLZ1	233	1350	150	234.5	0.692	-0.018	0.005	0.696	15	15	12	7	-0.004	-0.008	0.005	-1	0.106	0.083	0.050	Light	Light	Moderate
A	HPLZ1	241	0	250	234.5	0.757	-0.009	0.001	0.759	13	13	12	8					0.099	0.090	0.058	Light	Light	Moderate
E	HPLZ1	241	0	250	234.5	0.757	-0.017	0.006	0.760	14	14	12	8	0	-0.008	0.005	1	0.106	0.090	0.059	Light	Light	Moderate
A	HPLZ1	242	675	250	234.5	0.75	-0.01	0.002	0.751	14	14	11	8					0.102	0.084	0.059	Light	Light	Moderate
E	HPLZ1	242	675	250	234.5	0.742	-0.008	0	0.744	14	14	12	8	-0.008	0.002	-0.002	0	0.105	0.086	0.060	Light	Light	Moderate
A	HPLZ1	243	1350	250	234.5	0.728	-0.013	0.003	0.732	15	15	12	8					0.107	0.091	0.059	Light	Light	Moderate
E	HPLZ1	243	1350	250	234.5	0.733	-0.013	0.008	0.735	15	15	11	8	0.005	0	0.005	0	0.107	0.082	0.057	Light	Light	Moderate
A	HPLZ2	301	0	25	234.5	0.597	-0.006	-0.003	0.604	17	17	13	7					0.102	0.078	0.044	Light	Light	Moderate
E	HPLZ2	301	0	25	234.5	0.53	-0.027	0.041	0.543	18	18	14	8	-0.067	-0.021	0.044	1	0.098	0.078	0.042	Light	Light	Light
A	HPLZ2	302	675	25	234.5	0.584	-0.007	-0.011	0.592	17	17	13	7					0.101	0.075	0.042	Light	Light	Moderate
E	HPLZ2	302	675	25	234.5	0.582	-0.025	-0.007	0.590	17	17	12	7	-0.002	-0.018	0.004	0	0.099	0.073	0.043	Light	Light	Light
A	HPLZ2	303	1350	25	234.5	0.503	-0.011	-0.001	0.519	20	21	17	10					0.107	0.086	0.052	Light	Light	Moderate
E	HPLZ2	303	1350	25	234.5	0.486	-0.003	0	0.503	21	22	17	11	-0.017	0.008	0.001	1	0.112	0.083	0.053	Light	Light	Moderate
A	HPLZ2	311	0	50	234.5	0.647	0	0.002	0.652	16	16	12	7					0.104	0.079	0.045	Light	Light	Moderate
E	HPLZ2	311	0	50	234.5	0.59	-0.018	0.039	0.600	17	18	14	8	-0.057	-0.018	0.037	1	0.105	0.084	0.048	Light	Light	Moderate
A	HPLZ2	312	675	50	234.5	0.633	-0.011	-0.002	0.638	16	16	12	7					0.104	0.077	0.044	Light	Light	Moderate
E	HPLZ2	312	675	50	234.5	0.631	-0.019	-0.004	0.636	15	15	11	8	-0.002	-0.008	-0.002	-1	0.097	0.069	0.048	Light	Light	Moderate
A	HPLZ2	313	1350	50	234.5	0.565	-0.016	-0.005	0.575	19	20	13	9					0.112	0.077	0.051	Light	Light	Moderate
E	HPLZ2	313	1350	50	234.5	0.562	-0.018	-0.002	0.573	20	20	14	9	-0.003	-0.002	0.003	1	0.115	0.080	0.052	Light	Light	Moderate
A	HPLZ2	321	0	100	234.5	0.685	-0.01	0.005	0.689	16	16	12	7					0.107	0.084	0.049	Light	Light	Moderate
E	HPLZ2	321	0	100	234.5	0.657	-0.018	0.028	0.664	16	16	13	7	-0.028	-0.008	0.023	0	0.108	0.085	0.049	Light	Light	Moderate
A	HPLZ2	322	675	100	234.5	0.696	-0.007	0.001	0.700	15	15	12	7					0.106	0.084	0.050	Light	Light	Moderate
E	HPLZ2	322	675	100	234.5	0.69	-0.017	-0.006	0.694	15	15	12	7	-0.006	-0.01	-0.007	0	0.104	0.084	0.049	Light	Light	Moderate
A	HPLZ2	323	1350	100	234.5	0.633	-0.025	-0.001	0.640	17	18	12	8					0.113	0.076	0.051	Light	Light	Moderate
E	HPLZ2	323	1350	100	234.5	0.632	-0.019	-0.001	0.639	18	18	13	8	-0.001	0.006	0	1	0.115	0.080	0.052	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ1	223	1350	100	257	0.651	-0.004	0.006	0.657	18	18	13	8					0.117	0.087	0.050	Light	Light	Moderate
E	HPLZ1	223	1350	100	257	0.63	-0.001	-0.004	0.637	18	18	13	8	-0.021	0.003	-0.01	0	0.115	0.083	0.051	Light	Light	Moderate
A	HPLZ1	231	0	150	257	0.668	-0.008	-0.001	0.674	17	17	13	8					0.114	0.090	0.057	Light	Light	Moderate
E	HPLZ1	231	0	150	257	0.644	-0.013	0.001	0.652	19	19	14	9	-0.024	-0.005	0.002	2	0.126	0.091	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	257	0.674	-0.009	0.006	0.679	16	16	12	8					0.109	0.085	0.055	Light	Light	Moderate
E	HPLZ1	232	675	150	257	0.677	-0.007	-0.002	0.683	17	17	13	8	0.003	0.002	-0.008	1	0.115	0.089	0.055	Light	Light	Moderate
A	HPLZ1	233	1350	150	257	0.67	-0.012	0.007	0.676	16	16	13	8					0.108	0.085	0.055	Light	Light	Moderate
E	HPLZ1	233	1350	150	257	0.661	-0.013	0.001	0.667	16	16	12	8	-0.009	-0.001	-0.006	0	0.106	0.083	0.052	Light	Light	Moderate
A	HPLZ1	241	0	250	257	0.714	-0.006	0.001	0.718	16	16	13	8					0.114	0.091	0.059	Light	Light	Moderate
E	HPLZ1	241	0	250	257	0.703	-0.01	0.004	0.708	16	16	13	9	-0.011	-0.004	0.003	0	0.112	0.089	0.061	Light	Light	Moderate
A	HPLZ1	242	675	250	257	0.725	-0.009	0	0.729	16	16	12	9					0.115	0.087	0.062	Light	Light	Moderate
E	HPLZ1	242	675	250	257	0.713	-0.01	-0.002	0.717	15	15	12	8	-0.012	-0.001	-0.002	-1	0.109	0.087	0.057	Light	Light	Moderate
A	HPLZ1	243	1350	250	257	0.71	-0.013	0.003	0.715	16	16	12	9					0.111	0.088	0.061	Light	Light	Moderate
E	HPLZ1	243	1350	250	257	0.696	-0.006	0.002	0.701	16	16	12	9	-0.014	0.007	-0.001	0	0.110	0.086	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	257	0.555	-0.006	0	0.565	18	18	14	8					0.103	0.078	0.046	Light	Light	Moderate
E	HPLZ2	301	0	25	257	0.471	-0.022	0.019	0.488	21	22	16	10	-0.084	-0.016	0.019	3	0.109	0.079	0.050	Light	Light	Moderate
A	HPLZ2	302	675	25	257	0.566	-0.007	-0.006	0.575	17	17	14	8					0.098	0.081	0.044	Light	Light	Moderate
E	HPLZ2	302	675	25	257	0.516	0.003	-0.001	0.530	20	20	16	9	-0.05	0.01	0.005	3	0.105	0.084	0.048	Light	Light	Moderate
A	HPLZ2	303	1350	25	257	0.54	-0.009	-0.001	0.551	18	18	14	8					0.100	0.078	0.045	Light	Light	Moderate
E	HPLZ2	303	1350	25	257	0.511	-0.035	0.002	0.523	19	19	13	9	-0.029	-0.026	0.003	1	0.098	0.070	0.047	Light	Light	Moderate
A	HPLZ2	311	0	50	257	0.597	-0.009	0.003	0.605	18	18	13	8					0.107	0.081	0.046	Light	Light	Moderate
E	HPLZ2	311	0	50	257	0.525	-0.019	0.021	0.540	21	21	16	10	-0.072	-0.01	0.018	3	0.113	0.087	0.055	Light	Light	Moderate
A	HPLZ2	312	675	50	257	0.604	-0.012	0.004	0.612	17	17	14	8					0.107	0.084	0.046	Light	Light	Moderate
E	HPLZ2	312	675	50	257	0.564	-0.002	0.001	0.574	18	19	14	8	-0.04	0.01	-0.003	1	0.107	0.080	0.050	Light	Light	Moderate
A	HPLZ2	313	1350	50	257	0.589	-0.013	0.004	0.598	18	18	14	8					0.106	0.082	0.046	Light	Light	Moderate
E	HPLZ2	313	1350	50	257	0.55	-0.023	-0.001	0.561	19	19	13	9	-0.039	-0.01	-0.005	1	0.106	0.074	0.052	Light	Light	Moderate
A	HPLZ2	321	0	100	257	0.637	-0.01	0.004	0.644	19	19	13	8					0.120	0.081	0.052	Light	Light	Moderate
E	HPLZ2	321	0	100	257	0.598	-0.016	0.014	0.609	20	20	14	9	-0.039	-0.006	0.01	1	0.122	0.087	0.056	Light	Light	Moderate
A	HPLZ2	322	675	100	257	0.641	-0.008	0.005	0.648	17	17	13	8					0.111	0.086	0.052	Light	Light	Moderate
E	HPLZ2	322	675	100	257	0.641	-0.006	-0.005	0.648	18	18	13	8	0	0.002	-0.01	1	0.118	0.084	0.052	Light	Light	Moderate
A	HPLZ2	323	1350	100	257	0.65	-0.01	0	0.655	16	16	12	8					0.107	0.081	0.051	Light	Light	Moderate
E	HPLZ2	323	1350	100	257	0.622	-0.018	-0.003	0.630	18	19	14	8	-0.028	-0.008	-0.003	2	0.117	0.085	0.050	Light	Light	Moderate
A	HPLZ2	331	0	150	257	0.678	-0.007	0.007	0.684	17	17	13	8					0.119	0.090	0.058	Light	Light	Moderate
E	HPLZ2	331	0	150	257	0.645	-0.016	0.014	0.654	19	19	14	9	-0.033	-0.009	0.007	2	0.125	0.090	0.057	Light	Light	Moderate
A	HPLZ2	332	675	150	257	0.684	-0.005	0	0.689	16	16	12	8					0.111	0.086	0.055	Light	Light	Moderate
E	HPLZ2	332	675	150	257	0.669	-0.012	-0.001	0.675	16	17	13	8	-0.015	-0.007	-0.001	0	0.112	0.085	0.053	Light	Light	Moderate
A	HPLZ2	333	1350	150	257	0.664	-0.017	0.003	0.670	17	17	13	8					0.114	0.084	0.055	Light	Light	Moderate
E	HPLZ2	333	1350	150	257	0.666	-0.011	-0.001	0.671	17	17	13	8	0.002	0.006	-0.004	0	0.115	0.088	0.054	Light	Light	Moderate
A	HPLZ2	341	0	250	257	0.728	-0.005	0.001	0.731	15	15	12	9					0.108	0.089	0.063	Light	Light	Moderate
E	HPLZ2	341	0	250	257	0.718	-0.017	0.008	0.721	16	16	11	8	-0.01	-0.012	0.007	1	0.116	0.082	0.059	Light	Light	Moderate
A	HPLZ2	342	675	250	257	0.716	-0.014	0	0.720	15	15	12	8					0.109	0.087	0.061	Light	Light	Moderate
E	HPLZ2	342	675	250	257	0.724	-0.009	-0.005	0.728	15	15	13	8	0.008	0.005	-0.005	0	0.107	0.091	0.059	Light	Light	Moderate
A	HPLZ2	343	1350	250	257	0.707	-0.015	-0.001	0.711	16	16	12	9					0.111	0.086	0.061	Light	Light	Moderate
E	HPLZ2	343	1350	250	257	0.704	-0.005	0	0.708	16	16	12	9	-0.003	0.01	0.001	0	0.112	0.083	0.061	Light	Light	Moderate
A	SLZ1	401	0	25	257	0.471	-0.018	0.007	0.489	21	22	17	11					0.109	0.085	0.054	Light	Light	Moderate
E	SLZ1	401	0	25	257	0.489	-0.018	0.007	0.505	21	22	16	11	0.018	0	0	0	0.110	0.082	0.054	Light	Light	Moderate
A	SLZ1	402	575	25	257	0.511	0.016	-0.003	0.525	21	22	14	10					0.116	0.075	0.053	Light	Light	Moderate
E	SLZ1	402	575	25	257	0.527	0.021	-0.004	0.540	21	21	14	10	0.016	0.005	-0.001	0	0.116	0.075	0.052	Light	Light	Moderate
A	SLZ1	403	1150	25	257	0.564	-0.006	-0.001	0.574	19	20	14	8					0.113	0.081	0.045	Light	Light	Moderate
E	SLZ1	403	1150	25	257	0.574	-0.003	-0.002	0.583	18	18	14	8	0.01	0.003	-0.001	-1	0.107	0.081	0.045	Light	Light	Moderate
A	SLZ1	411	0	50	257	0.531	-0.02	-0.001	0.545	20	21	15	10					0.113	0.083	0.055	Light	Light	Moderate
E	SLZ1	411	0	50	257	0.526	-0.021	0.001	0.541	21	21	15	10	-0.005	-0.001	0.002	1	0.115	0.082	0.056	Light	Light	Moderate
A	SLZ1	412	575	50	257	0.574	0.016	-0.012	0.584	20	20	13	9					0.116	0.075	0.053	Light	Light	Moderate
E	SLZ1	412	575	50	257	0.561	0.011	-0.013	0.572	20	21	13	9	-0.013	-0.005	-0.001	0	0.117	0.074	0.054	Light	Light	Moderate
A	SLZ1	413	1150	50	257	0.59	-0.008	0.004	0.598	18	18	13	8					0.110	0.079	0.047	Light	Light	Moderate
E	SLZ1	413	1150	50	257	0.61	-0.012	0.003	0.617	17	17	13	7	0.02	-0.004	-0.001	-1	0.104	0.081	0.046	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	SLZ1	421	0	100	257	0.615	-0.016	-0.002	0.623	18	18	13	8					0.115	0.082	0.051	Light	Light	Moderate
E	SLZ1	421	0	100	257	0.615	-0.018	-0.002	0.623	18	18	13	8	0	-0.002	0	0	0.113	0.079	0.052	Light	Light	Moderate
A	SLZ1	422	575	100	257	0.639	-0.002	-0.013	0.646	17	17	13	8					0.112	0.085	0.051	Light	Light	Moderate
E	SLZ1	422	575	100	257	0.622	0.002	-0.009	0.630	17	17	13	8	-0.017	0.004	0.004	0	0.107	0.085	0.052	Light	Light	Moderate
A	SLZ1	423	1150	100	257	0.634	-0.006	0.005	0.640	17	17	12	8					0.107	0.078	0.051	Light	Light	Moderate
E	SLZ1	423	1150	100	257	0.661	-0.01	0.006	0.667	16	16	12	8	0.027	-0.004	0.001	-1	0.109	0.082	0.051	Light	Light	Moderate
A	SLZ1	431	0	150	257	0.653	-0.02	0.001	0.660	17	17	13	8					0.113	0.085	0.054	Light	Light	Moderate
E	SLZ1	431	0	150	257	0.661	-0.021	-0.001	0.667	16	15	12	8	0.008	-0.001	-0.002	-1	0.103	0.080	0.053	Light	Light	Moderate
A	SLZ1	432	575	150	257	0.669	-0.006	-0.005	0.674	15	15	13	8					0.104	0.084	0.055	Light	Light	Moderate
E	SLZ1	432	575	150	257	0.675	-0.007	-0.008	0.681	17	17	13	8	0.006	-0.001	-0.003	2	0.114	0.087	0.055	Light	Light	Moderate
A	SLZ1	433	1150	150	257	0.67	-0.002	0.004	0.675	16	16	12	8					0.108	0.081	0.056	Light	Light	Moderate
E	SLZ1	433	1150	150	257	0.684	-0.011	0.004	0.688	17	17	11	8	0.014	-0.009	0	1	0.118	0.078	0.056	Light	Light	Moderate
A	SLZ1	441	0	250	257	0.696	-0.013	-0.001	0.701	15	15	12	8					0.107	0.084	0.059	Light	Light	Moderate
E	SLZ1	441	0	250	257	0.703	-0.016	0.002	0.708	15	15	12	9	0.007	-0.003	0.003	0	0.109	0.087	0.063	Light	Light	Moderate
A	SLZ1	442	575	250	257	0.691	-0.015	-0.006	0.695	15	15	12	9					0.105	0.081	0.060	Light	Light	Moderate
E	SLZ1	442	575	250	257	0.706	-0.003	-0.006	0.711	15	15	13	9	0.015	0.012	0	0	0.110	0.091	0.063	Light	Light	Moderate
A	SLZ1	443	1150	250	257	0.696	-0.017	0.004	0.701	16	16	12	9					0.110	0.085	0.062	Light	Light	Moderate
E	SLZ1	443	1150	250	257	0.714	-0.017	0.004	0.719	16	16	12	9	0.018	0	0	0	0.118	0.087	0.064	Light	Light	Moderate
A	SLZ2	501	0	25	257	0.498	-0.005	0.001	0.512	20	21	16	10					0.106	0.080	0.049	Light	Light	Moderate
E	SLZ2	501	0	25	257	0.511	0.002	0.003	0.525	20	20	15	10	0.013	0.007	0.002	0	0.106	0.079	0.050	Light	Light	Moderate
A	SLZ2	502	575	25	257	0.542	-0.002	-0.001	0.553	19	19	13	9					0.107	0.072	0.049	Light	Light	Moderate
E	SLZ2	502	575	25	257	0.539	0.004	-0.002	0.550	19	20	14	9	-0.003	0.006	-0.001	0	0.108	0.076	0.050	Light	Light	Moderate
A	SLZ2	503	1150	25	257	0.568	-0.003	0.002	0.577	19	19	14	8					0.108	0.078	0.046	Light	Light	Moderate
E	SLZ2	503	1150	25	257	0.573	-0.007	0.003	0.582	18	18	14	8	0.005	-0.004	0.001	-1	0.107	0.080	0.045	Light	Light	Moderate
A	SLZ2	511	0	50	257	0.541	-0.007	0.002	0.553	19	20	14	9					0.108	0.080	0.051	Light	Light	Moderate
E	SLZ2	511	0	50	257	0.541	-0.01	0.003	0.553	19	20	15	10	0	-0.003	0.001	0	0.109	0.082	0.053	Light	Light	Moderate
A	SLZ2	512	575	50	257	0.573	0.003	-0.005	0.583	19	19	13	9					0.112	0.077	0.052	Light	Light	Moderate
E	SLZ2	512	575	50	257	0.583	0.011	-0.004	0.591	18	18	12	9	0.01	0.008	0.001	-1	0.106	0.073	0.050	Light	Light	Moderate
A	SLZ2	513	1150	50	257	0.62	-0.002	0.002	0.627	17	17	13	7					0.107	0.081	0.045	Light	Light	Moderate
E	SLZ2	513	1150	50	257	0.605	-0.008	0.007	0.613	17	17	14	7	-0.015	-0.006	0.005	0	0.103	0.084	0.046	Light	Light	Moderate
A	SLZ2	521	0	100	257	0.604	-0.008	-0.001	0.612	19	19	13	9					0.117	0.082	0.054	Light	Light	Moderate
E	SLZ2	521	0	100	257	0.607	-0.013	-0.001	0.616	19	19	14	8	0.003	-0.005	0	0	0.115	0.085	0.052	Light	Light	Moderate
A	SLZ2	522	575	100	257	0.635	0.002	-0.003	0.642	18	18	13	9					0.118	0.084	0.055	Light	Light	Moderate
E	SLZ2	522	575	100	257	0.632	-0.003	-0.006	0.639	18	18	13	8	-0.003	-0.005	-0.003	0	0.115	0.083	0.052	Light	Light	Moderate
A	SLZ2	523	1150	100	257	0.648	-0.004	0.01	0.655	17	17	13	8					0.114	0.088	0.054	Light	Light	Moderate
E	SLZ2	523	1150	100	257	0.658	-0.008	0.007	0.664	17	17	13	8	0.01	-0.004	-0.003	0	0.110	0.088	0.052	Light	Light	Moderate
A	SLZ2	531	0	150	257	0.654	-0.007	-0.002	0.660	17	17	13	8					0.112	0.084	0.053	Light	Light	Moderate
E	SLZ2	531	0	150	257	0.654	-0.014	0.003	0.661	17	17	13	8	0	-0.007	0.005	0	0.115	0.083	0.053	Light	Light	Moderate
A	SLZ2	532	575	150	257	0.658	-0.007	-0.002	0.664	16	16	12	8					0.105	0.079	0.055	Light	Light	Moderate
E	SLZ2	532	575	150	257	0.682	-0.002	-0.003	0.687	15	15	13	8	0.024	0.005	-0.001	-1	0.106	0.087	0.054	Light	Light	Moderate
A	SLZ2	533	1150	150	257	0.664	-0.015	0.006	0.669	17	17	12	8					0.114	0.080	0.056	Light	Light	Moderate
E	SLZ2	533	1150	150	257	0.676	-0.003	0.007	0.680	16	16	12	8	0.012	0.012	0.001	-1	0.107	0.080	0.057	Light	Light	Moderate
A	SLZ2	541	0	250	257	0.696	-0.012	-0.002	0.701	16	16	12	8					0.114	0.086	0.059	Light	Light	Moderate
E	SLZ2	541	0	250	257	0.692	-0.011	0.002	0.696	15	15	12	9	-0.004	0.001	0.004	-1	0.105	0.081	0.059	Light	Light	Moderate
A	SLZ2	542	575	250	257	0.702	-0.012	0	0.706	14	14	12	9					0.101	0.081	0.061	Light	Light	Moderate
E	SLZ2	542	575	250	257	0.695	-0.01	-0.002	0.699	16	16	12	9	-0.007	0.002	-0.002	2	0.112	0.082	0.060	Light	Light	Moderate
A	SLZ2	543	1150	250	257	0.696	-0.007	0.007	0.701	15	15	12	9					0.106	0.085	0.061	Light	Light	Moderate
E	SLZ2	543	1150	250	257	0.704	-0.009	0.003	0.709	15	14	12	9	0.008	-0.002	-0.004	0	0.103	0.086	0.063	Light	Light	Moderate
A	Runway	101	0	25	279.5	0.492	-0.018	0.005	0.508	21	22	16	11					0.110	0.081	0.055	Light	Light	Moderate
E	Runway	101	0	25	279.5	0.503	-0.024	0.005	0.519	21	21	16	10	0.011	-0.006	0	0	0.110	0.083	0.053	Light	Light	Moderate
A	Runway	102	695	25	279.5	0.531	-0.012	0.007	0.544	20	20	15	8					0.111	0.082	0.046	Light	Light	Moderate
E	Runway	102	695	25	279.5	0.423	-0.033	0.009	0.453	23	25	23	14	-0.108	-0.021	0.002	3	0.115	0.103	0.066	Light	Light	Moderate
A	Runway	103	1389	25	279.5	0.534	0.001	0.005	0.547	19	20	15	8					0.107	0.084	0.046	Light	Light	Moderate
E	Runway	103	1389	25	279.5	0.502	-0.002	0.005	0.516	21	21	16	10	-0.032	-0.003	0	2	0.109	0.082	0.049	Light	Light	Moderate
A	Runway	104	2064	25	279.5	0.529	0.002	0.006	0.541	18	18	15	8					0.100	0.084	0.044	Light	Light	Moderate
E	Runway	104	2064	25	279.5	0.435	-0.016	0.012	0.459	22	24	20	13	-0.094	-0.018	0.006	-4	0.110	0.092	0.058	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	105	2739	25	279.5	0.522	-0.005	0.004	0.534	18	18	14	8					0.098	0.077	0.045	Light	Light	Moderate
E	Runway	105	2739	25	279.5	0.441	-0.007	0.008	0.463	22	23	20	12	-0.081	-0.002	0.004	4	0.107	0.093	0.055	Light	Light	Moderate
A	Runway	106	3300	25	279.5	0.522	-0.011	0.006	0.534	20	20	14	8					0.105	0.076	0.045	Light	Light	Moderate
E	Runway	106	3300	25	279.5	0.497	-0.017	0.005	0.512	20	20	16	10	-0.025	-0.006	-0.001	0	0.103	0.081	0.050	Light	Light	Moderate
A	Runway	107	3875	25	279.5	0.359	-0.002	-0.017	0.405	26	33	25	21					0.132	0.103	0.083	Light	Light	Severe
E	Runway	107	3875	25	279.5	0.353	-0.002	-0.012	0.401	27	34	27	21	-0.006	0	0.005	1	0.136	0.108	0.083	Light	Light	Severe
A	Runway	108	4450	25	279.5	0.53	0	-0.003	0.542	20	21	14	9					0.114	0.078	0.048	Light	Light	Moderate
E	Runway	108	4450	25	279.5	0.543	0.005	-0.007	0.553	19	20	14	8	0.013	0.005	-0.004	-1	0.110	0.075	0.046	Light	Light	Moderate
A	Runway	111	0	50	279.5	0.533	-0.018	0.005	0.547	21	21	15	11					0.115	0.084	0.058	Light	Light	Moderate
E	Runway	111	0	50	279.5	0.544	-0.013	0.002	0.557	20	21	15	10	0.011	0.005	-0.003	-1	0.115	0.086	0.058	Light	Light	Moderate
A	Runway	112	695	50	279.5	0.577	-0.006	0.007	0.587	18	18	14	9					0.107	0.080	0.052	Light	Light	Moderate
E	Runway	112	695	50	279.5	0.492	-0.026	-0.003	0.512	24	25	18	12	-0.085	-0.02	-0.01	6	0.130	0.095	0.063	Light	Light	Moderate
A	Runway	113	1389	50	279.5	0.568	-0.006	0.008	0.579	18	19	15	9					0.107	0.085	0.049	Light	Light	Moderate
E	Runway	113	1389	50	279.5	0.532	-0.019	0.004	0.545	20	20	15	10	-0.036	-0.013	-0.004	2	0.110	0.080	0.053	Light	Light	Moderate
A	Runway	114	2064	50	279.5	0.581	-0.002	0.009	0.591	18	18	14	8					0.109	0.082	0.046	Light	Light	Moderate
E	Runway	114	2064	50	279.5	0.483	-0.015	0.001	0.504	23	25	18	12	-0.098	-0.013	-0.008	5	0.124	0.091	0.061	Light	Light	Moderate
A	Runway	115	2739	50	279.5	0.58	-0.009	0.005	0.589	19	19	14	8					0.113	0.082	0.046	Light	Light	Moderate
E	Runway	115	2739	50	279.5	0.496	-0.004	-0.001	0.514	23	24	17	11	-0.084	0.005	-0.006	4	0.124	0.086	0.057	Light	Light	Moderate
A	Runway	116	3300	50	279.5	0.578	-0.017	0.003	0.586	18	18	13	8					0.105	0.078	0.047	Light	Light	Moderate
E	Runway	116	3300	50	279.5	0.539	-0.014	0.005	0.551	20	20	15	9	-0.039	0.003	0.002	2	0.111	0.081	0.050	Light	Light	Moderate
A	Runway	117	3875	50	279.5	0.451	0.002	-0.033	0.480	25	29	19	15					0.138	0.092	0.070	Light	Light	Moderate
E	Runway	117	3875	50	279.5	0.46	-0.002	-0.031	0.488	26	29	20	15	0.009	-0.004	0.002	1	0.144	0.095	0.072	Light	Light	Moderate
A	Runway	118	4450	50	279.5	0.579	-0.001	0.006	0.587	18	19	13	8					0.109	0.076	0.045	Light	Light	Moderate
E	Runway	118	4450	50	279.5	0.598	-0.005	0.004	0.606	18	18	14	8	0.019	-0.004	-0.002	0	0.108	0.083	0.047	Light	Light	Moderate
A	Runway	121	0	100	279.5	0.604	-0.007	0.001	0.614	19	19	14	9					0.119	0.088	0.058	Light	Light	Moderate
E	Runway	121	0	100	279.5	0.596	-0.007	0	0.607	20	21	14	10	-0.008	0	-0.001	1	0.127	0.085	0.058	Light	Light	Moderate
A	Runway	122	695	100	279.5	0.635	-0.015	0.003	0.643	18	19	13	9					0.120	0.084	0.056	Light	Light	Moderate
E	Runway	122	695	100	279.5	0.583	-0.01	-0.007	0.595	20	21	15	10	-0.052	0.005	-0.01	2	0.125	0.092	0.057	Light	Light	Moderate
A	Runway	123	1389	100	279.5	0.631	-0.008	0.003	0.638	18	18	13	8					0.117	0.085	0.054	Light	Light	Moderate
E	Runway	123	1389	100	279.5	0.615	-0.017	0.002	0.623	19	19	13	9	-0.016	-0.009	-0.001	1	0.118	0.082	0.055	Light	Light	Moderate
A	Runway	124	2064	100	279.5	0.617	-0.004	0.003	0.626	18	18	14	9					0.113	0.090	0.055	Light	Light	Moderate
E	Runway	124	2064	100	279.5	0.597	-0.01	-0.004	0.607	21	22	15	9	-0.02	-0.006	-0.007	3	0.131	0.091	0.054	Light	Light	Moderate
A	Runway	125	2739	100	279.5	0.628	0	0.008	0.635	18	18	13	8					0.113	0.085	0.051	Light	Light	Moderate
E	Runway	125	2739	100	279.5	0.594	0	-0.005	0.603	20	20	14	9	-0.034	0	-0.013	2	0.120	0.084	0.052	Light	Light	Moderate
A	Runway	126	3300	100	279.5	0.621	-0.019	0.004	0.628	17	17	13	8					0.106	0.079	0.051	Light	Light	Moderate
E	Runway	126	3300	100	279.5	0.606	-0.02	0.004	0.615	19	19	13	9	-0.015	-0.001	0	2	0.117	0.079	0.053	Light	Light	Moderate
A	Runway	127	3875	100	279.5	0.603	-0.003	-0.024	0.612	19	20	13	8					0.119	0.081	0.051	Light	Light	Moderate
E	Runway	127	3875	100	279.5	0.594	-0.006	-0.02	0.603	19	19	13	8	-0.009	-0.003	0.004	0	0.117	0.076	0.050	Light	Light	Moderate
A	Runway	128	4450	100	279.5	0.642	0.002	0.006	0.648	17	17	12	8					0.110	0.078	0.052	Light	Light	Moderate
E	Runway	128	4450	100	279.5	0.64	-0.005	0.008	0.646	17	17	12	8	-0.002	-0.007	0.002	0	0.108	0.080	0.050	Light	Light	Moderate
A	Runway	131	0	150	279.5	0.665	-0.006	-0.001	0.671	18	19	13	8					0.124	0.086	0.055	Light	Light	Moderate
E	Runway	131	0	150	279.5	0.667	-0.008	0.003	0.673	18	18	12	8	0.002	-0.002	0.004	0	0.119	0.083	0.055	Light	Light	Moderate
A	Runway	132	695	150	279.5	0.675	-0.007	0.003	0.682	17	18	13	8					0.120	0.089	0.057	Light	Light	Moderate
E	Runway	132	695	150	279.5	0.65	-0.007	-0.001	0.657	19	19	14	9	-0.025	0	-0.004	2	0.123	0.090	0.060	Light	Light	Moderate
A	Runway	133	1389	150	279.5	0.671	-0.006	0	0.678	17	18	14	9					0.119	0.092	0.060	Light	Light	Moderate
E	Runway	133	1389	150	279.5	0.645	-0.021	0.001	0.653	18	18	13	9	-0.026	-0.015	0.001	1	0.117	0.085	0.056	Light	Light	Moderate
A	Runway	134	2064	150	279.5	0.656	-0.009	0.002	0.662	17	17	13	8					0.111	0.087	0.054	Light	Light	Moderate
E	Runway	134	2064	150	279.5	0.63	-0.008	-0.001	0.638	19	19	13	9	-0.026	0.001	-0.003	2	0.121	0.084	0.057	Light	Light	Moderate
A	Runway	135	2739	150	279.5	0.664	-0.008	0	0.670	17	17	12	8					0.114	0.082	0.055	Light	Light	Moderate
E	Runway	135	2739	150	279.5	0.644	-0.01	-0.002	0.650	17	17	13	8	-0.02	-0.002	-0.002	0	0.111	0.085	0.053	Light	Light	Moderate
A	Runway	136	3300	150	279.5	0.665	-0.019	0.003	0.671	16	17	12	8					0.111	0.084	0.054	Light	Light	Moderate
E	Runway	136	3300	150	279.5	0.659	-0.018	-0.001	0.664	17	17	12	8	-0.006	0.001	-0.004	1	0.114	0.082	0.054	Light	Light	Moderate
A	Runway	137	3875	150	279.5	0.661	-0.006	-0.01	0.667	17	17	13	8					0.113	0.087	0.055	Light	Light	Moderate
E	Runway	137	3875	150	279.5	0.675	-0.007	-0.013	0.680	16	16	12	7	0.014	-0.001	-0.003	-1	0.109	0.081	0.051	Light	Light	Moderate
A	Runway	138	4450	150	279.5	0.677	-0.01	0.004	0.683	16	16	13	8					0.111	0.087	0.055	Light	Light	Moderate
E	Runway	138	4450	150	279.5	0.663	-0.01	0.005	0.668	16	16	12	8	-0.014	0	0.001	0	0.106	0.078	0.056	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% UVW)	U/Uref	V/Uref	W/Uref	U	V	W
										(% UVW)													
A	Runway	141	0	250	279.5	0.708	-0.003	0.004	0.712	15	15	12	9					0.110	0.085	0.061	Light	Light	Moderate
E	Runway	141	0	250	279.5	0.704	-0.002	0.003	0.709	16	16	13	9	-0.004	0.001	-0.001	1	0.111	0.089	0.062	Light	Light	Moderate
A	Runway	142	695	250	279.5	0.74	-0.009	-0.001	0.743	15	15	12	8					0.112	0.086	0.061	Light	Light	Moderate
E	Runway	142	695	250	279.5	0.729	-0.008	-0.002	0.733	15	15	12	8	-0.011	0.001	-0.001	0	0.113	0.090	0.060	Light	Light	Moderate
A	Runway	143	1389	250	279.5	0.71	-0.009	0	0.715	16	16	13	8					0.116	0.091	0.061	Light	Light	Moderate
E	Runway	143	1389	250	279.5	0.709	-0.016	-0.003	0.713	16	16	12	8	-0.001	-0.007	-0.003	0	0.113	0.087	0.059	Light	Light	Moderate
A	Runway	144	2064	250	279.5	0.723	-0.012	-0.003	0.727	15	15	12	8					0.111	0.090	0.060	Light	Light	Moderate
E	Runway	144	2064	250	279.5	0.71	-0.009	-0.006	0.714	16	16	12	9	-0.013	0.003	-0.003	1	0.117	0.086	0.061	Light	Light	Moderate
A	Runway	145	2739	250	279.5	0.71	-0.01	0.002	0.715	16	16	13	9					0.114	0.091	0.061	Light	Light	Moderate
E	Runway	145	2739	250	279.5	0.693	-0.006	-0.001	0.697	16	16	12	9	-0.017	0.004	-0.003	0	0.110	0.085	0.062	Light	Light	Moderate
A	Runway	146	3300	250	279.5	0.695	-0.018	0.002	0.700	16	16	12	9					0.114	0.085	0.060	Light	Light	Moderate
E	Runway	146	3300	250	279.5	0.696	-0.012	-0.004	0.701	15	15	12	8	0.001	0.006	-0.006	-1	0.108	0.082	0.059	Light	Light	Moderate
A	Runway	147	3875	250	279.5	0.701	-0.007	-0.008	0.705	16	16	12	9					0.112	0.082	0.060	Light	Light	Moderate
E	Runway	147	3875	250	279.5	0.702	-0.01	-0.007	0.706	15	15	12	8	0.001	-0.003	0.001	-1	0.106	0.085	0.060	Light	Light	Moderate
A	Runway	148	4450	250	279.5	0.71	-0.008	0	0.714	16	16	11	9					0.114	0.082	0.062	Light	Light	Moderate
E	Runway	148	4450	250	279.5	0.717	-0.009	-0.001	0.719	15	15	11	9	0.007	-0.001	-0.001	-1	0.107	0.077	0.062	Light	Light	Moderate
A	HPLZ1	201	0	25	279.5	0.529	-0.002	-0.01	0.541	20	20	15	8					0.108	0.082	0.045	Light	Light	Moderate
E	HPLZ1	201	0	25	279.5	0.503	-0.019	-0.002	0.519	21	21	17	10	-0.026	-0.017	0.008	1	0.110	0.086	0.049	Light	Light	Moderate
A	HPLZ1	202	675	25	279.5	0.533	0.002	-0.008	0.544	19	19	14	8					0.104	0.076	0.044	Light	Light	Moderate
E	HPLZ1	202	675	25	279.5	0.483	-0.017	0	0.501	22	23	18	10	-0.05	-0.019	0.008	3	0.114	0.090	0.052	Light	Light	Moderate
A	HPLZ1	203	1350	25	279.5	0.53	0.007	0.005	0.541	19	19	14	8					0.102	0.078	0.042	Light	Light	Light
E	HPLZ1	203	1350	25	279.5	0.486	-0.006	0.007	0.502	21	22	17	10	-0.044	-0.013	0.002	2	0.109	0.086	0.051	Light	Light	Moderate
A	HPLZ1	211	0	50	279.5	0.566	-0.007	-0.003	0.576	20	20	15	8					0.112	0.085	0.047	Light	Light	Moderate
E	HPLZ1	211	0	50	279.5	0.548	-0.018	-0.001	0.560	21	21	16	9	-0.018	-0.011	0.002	1	0.120	0.087	0.051	Light	Light	Moderate
A	HPLZ1	212	675	50	279.5	0.583	-0.01	0.002	0.592	18	18	14	8					0.108	0.080	0.047	Light	Light	Moderate
E	HPLZ1	212	675	50	279.5	0.526	-0.013	-0.001	0.540	21	21	16	10	-0.057	-0.003	-0.003	3	0.115	0.086	0.055	Light	Light	Moderate
A	HPLZ1	213	1350	50	279.5	0.602	0.005	0.007	0.610	16	16	14	7					0.099	0.083	0.044	Light	Light	Moderate
E	HPLZ1	213	1350	50	279.5	0.531	-0.009	0.006	0.545	20	20	16	10	-0.071	-0.014	-0.001	4	0.109	0.088	0.053	Light	Light	Moderate
A	HPLZ1	221	0	100	279.5	0.624	-0.007	-0.002	0.633	19	19	14	9					0.118	0.087	0.055	Light	Light	Moderate
E	HPLZ1	221	0	100	279.5	0.61	-0.017	0.001	0.618	19	19	13	9	-0.014	-0.01	0.003	0	0.118	0.081	0.056	Light	Light	Moderate
A	HPLZ1	222	675	100	279.5	0.621	-0.006	0.002	0.628	19	19	12	8					0.119	0.078	0.052	Light	Light	Moderate
E	HPLZ1	222	675	100	279.5	0.591	-0.01	-0.004	0.602	20	20	15	10	-0.03	-0.004	-0.006	1	0.123	0.088	0.058	Light	Light	Moderate
A	HPLZ1	223	1350	100	279.5	0.632	-0.004	0.004	0.639	17	17	13	8					0.111	0.081	0.050	Light	Light	Moderate
E	HPLZ1	223	1350	100	279.5	0.606	-0.008	-0.002	0.615	20	20	14	9	-0.026	-0.004	-0.006	3	0.123	0.088	0.053	Light	Light	Moderate
A	HPLZ1	231	0	150	279.5	0.659	-0.008	-0.004	0.666	17	17	13	8					0.115	0.086	0.056	Light	Light	Moderate
E	HPLZ1	231	0	150	279.5	0.656	-0.019	0.003	0.663	18	18	13	9	-0.003	-0.011	0.007	1	0.121	0.083	0.059	Light	Light	Moderate
A	HPLZ1	232	675	150	279.5	0.666	-0.011	0.001	0.671	17	17	13	8					0.114	0.087	0.054	Light	Light	Moderate
E	HPLZ1	232	675	150	279.5	0.657	-0.007	-0.001	0.664	17	17	13	8	-0.009	0.004	-0.002	0	0.115	0.089	0.055	Light	Light	Moderate
A	HPLZ1	233	1350	150	279.5	0.666	0	0.005	0.672	17	17	13	8					0.113	0.085	0.054	Light	Light	Moderate
E	HPLZ1	233	1350	150	279.5	0.647	-0.001	-0.001	0.654	19	19	13	8	-0.019	-0.001	-0.006	2	0.125	0.084	0.055	Light	Light	Moderate
A	HPLZ1	241	0	250	279.5	0.709	-0.008	-0.001	0.713	16	16	11	9					0.112	0.081	0.064	Light	Light	Moderate
E	HPLZ1	241	0	250	279.5	0.708	-0.017	0	0.712	16	16	12	8	-0.001	-0.009	0.001	0	0.115	0.084	0.060	Light	Light	Moderate
A	HPLZ1	242	675	250	279.5	0.727	-0.008	-0.003	0.731	15	15	12	8					0.113	0.090	0.060	Light	Light	Moderate
E	HPLZ1	242	675	250	279.5	0.692	-0.008	-0.003	0.697	16	16	12	8	-0.035	0	0	1	0.113	0.085	0.059	Light	Light	Moderate
A	HPLZ1	243	1350	250	279.5	0.715	-0.014	0	0.719	16	16	12	8					0.112	0.084	0.060	Light	Light	Moderate
E	HPLZ1	243	1350	250	279.5	0.712	-0.006	-0.003	0.716	16	16	12	8	-0.003	0.008	-0.003	0	0.113	0.088	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	279.5	0.543	0	-0.002	0.554	19	19	15	8					0.107	0.080	0.045	Light	Light	Moderate
E	HPLZ2	301	0	25	279.5	0.507	-0.002	-0.009	0.521	19	20	15	10	-0.036	-0.002	-0.007	0	0.102	0.080	0.052	Light	Light	Moderate
A	HPLZ2	302	675	25	279.5	0.554	-0.007	-0.004	0.563	17	17	14	8					0.097	0.079	0.043	Light	Light	Light
E	HPLZ2	302	675	25	279.5	0.508	-0.018	0.003	0.522	20	20	16	9	-0.046	-0.011	0.007	3	0.105	0.083	0.049	Light	Light	Moderate
A	HPLZ2	303	1350	25	279.5	0.558	-0.009	-0.006	0.568	18	18	14	8					0.102	0.078	0.043	Light	Light	Light
E	HPLZ2	303	1350	25	279.5	0.503	-0.012	0	0.518	21	21	17	9	-0.055	-0.003	0.006	3	0.110	0.087	0.049	Light	Light	Moderate
A	HPLZ2	311	0	50	279.5	0.587	-0.014	0.004	0.597	19	19	14	8					0.115	0.085	0.046	Light	Light	Moderate
E	HPLZ2	311	0	50	279.5	0.558	-0.011	0.009	0.569	20	20	15	9	-0.029	0.003	0.005	1	0.114	0.086	0.050	Light	Light	Moderate
A	HPLZ2	312	675	50	279.5	0.604	-0.01	0.002	0.612	18	18	13	8					0.111	0.081	0.046	Light	Light	Moderate
E	HPLZ2	312	675	50	279.5	0.552	-0.02	0.004	0.564	19	19	15	9	-0.052	-0.01	0.002	1	0.108	0.087	0.052	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	HPLZ2	313	1350	50	279.5	0.585	-0.005	0.002	0.593	19	19	13	8					0.113	0.079	0.045	Light	Light	Moderate
E	HPLZ2	313	1350	50	279.5	0.55	-0.011	-0.001	0.563	20	20	15	10	-0.035	-0.006	-0.003	1	0.115	0.086	0.054	Light	Light	Moderate
A	HPLZ2	321	0	100	279.5	0.62	-0.005	0.006	0.628	18	18	14	8					0.113	0.085	0.053	Light	Light	Moderate
E	HPLZ2	321	0	100	279.5	0.606	-0.014	0.007	0.614	19	19	13	9	-0.014	-0.009	0.001	1	0.117	0.080	0.055	Light	Light	Moderate
A	HPLZ2	322	675	100	279.5	0.632	-0.006	0.006	0.639	19	19	13	8					0.120	0.083	0.051	Light	Light	Moderate
E	HPLZ2	322	675	100	279.5	0.608	-0.015	0	0.617	20	20	14	9	-0.024	-0.009	-0.006	1	0.122	0.087	0.056	Light	Light	Moderate
A	HPLZ2	323	1350	100	279.5	0.642	-0.018	0.002	0.649	18	18	13	8					0.114	0.087	0.051	Light	Light	Moderate
E	HPLZ2	323	1350	100	279.5	0.601	-0.007	-0.005	0.610	19	20	14	9	-0.041	0.011	-0.007	1	0.119	0.086	0.055	Light	Light	Moderate
A	HPLZ2	331	0	150	279.5	0.664	-0.01	0.003	0.670	17	17	13	8					0.117	0.087	0.056	Light	Light	Moderate
E	HPLZ2	331	0	150	279.5	0.648	-0.019	0.01	0.655	19	19	13	9	-0.016	-0.009	0.007	2	0.125	0.084	0.056	Light	Light	Moderate
A	HPLZ2	332	675	150	279.5	0.667	-0.006	0.001	0.673	17	17	13	8					0.113	0.087	0.055	Light	Light	Moderate
E	HPLZ2	332	675	150	279.5	0.655	-0.007	0	0.662	18	18	13	8	-0.012	-0.001	-0.001	1	0.117	0.088	0.055	Light	Light	Moderate
A	HPLZ2	333	1350	150	279.5	0.671	-0.013	0.002	0.677	17	17	13	8					0.112	0.085	0.053	Light	Light	Moderate
E	HPLZ2	333	1350	150	279.5	0.642	-0.008	-0.004	0.650	18	18	13	9	-0.029	0.005	-0.006	1	0.119	0.084	0.058	Light	Light	Moderate
A	HPLZ2	341	0	250	279.5	0.714	-0.006	-0.003	0.719	17	17	13	9					0.121	0.091	0.062	Light	Light	Moderate
E	HPLZ2	341	0	250	279.5	0.721	-0.011	0.006	0.724	17	17	12	8	0.007	-0.005	0.009	0	0.121	0.084	0.061	Light	Light	Moderate
A	HPLZ2	342	675	250	279.5	0.705	-0.012	-0.001	0.710	16	16	13	9					0.112	0.089	0.062	Light	Light	Moderate
E	HPLZ2	342	675	250	279.5	0.706	-0.006	-0.002	0.710	16	16	12	9	0.001	0.006	-0.001	0	0.117	0.087	0.061	Light	Light	Moderate
A	HPLZ2	343	1350	250	279.5	0.702	-0.014	-0.002	0.706	16	16	12	9					0.113	0.082	0.060	Light	Light	Moderate
E	HPLZ2	343	1350	250	279.5	0.705	-0.012	-0.005	0.709	16	16	12	9	0.003	0.002	-0.003	0	0.114	0.086	0.061	Light	Light	Moderate
A	SLZ1	401	0	25	279.5	0.54	-0.015	0.002	0.551	18	19	15	8					0.102	0.083	0.044	Light	Light	Moderate
E	SLZ1	401	0	25	279.5	0.515	-0.015	0.005	0.527	18	19	14	9	-0.025	0	0.003	0	0.099	0.073	0.048	Light	Light	Moderate
A	SLZ1	402	575	25	279.5	0.417	-0.016	0.006	0.445	24	26	22	14					0.117	0.096	0.063	Light	Light	Moderate
E	SLZ1	402	575	25	279.5	0.428	-0.015	0.006	0.458	24	27	22	15	0.011	0.001	0	0	0.124	0.102	0.067	Light	Light	Moderate
A	SLZ1	403	1150	25	279.5	0.532	-0.012	-0.001	0.544	20	21	15	9					0.112	0.082	0.050	Light	Light	Moderate
E	SLZ1	403	1150	25	279.5	0.524	-0.006	0	0.536	20	20	15	9	-0.008	0.006	0.001	0	0.110	0.081	0.048	Light	Light	Moderate
A	SLZ1	411	0	50	279.5	0.58	-0.018	0.005	0.590	18	18	14	8					0.105	0.081	0.045	Light	Light	Moderate
E	SLZ1	411	0	50	279.5	0.551	-0.012	0.003	0.562	20	20	14	9	-0.029	0.006	-0.002	2	0.112	0.079	0.050	Light	Light	Moderate
A	SLZ1	412	575	50	279.5	0.484	-0.011	-0.008	0.506	24	26	19	13					0.130	0.096	0.063	Light	Light	Moderate
E	SLZ1	412	575	50	279.5	0.476	-0.009	-0.006	0.498	24	25	19	13	-0.008	0.002	0.002	0	0.127	0.095	0.063	Light	Light	Moderate
A	SLZ1	413	1150	50	279.5	0.573	-0.007	0.001	0.583	19	20	14	8					0.114	0.084	0.048	Light	Light	Moderate
E	SLZ1	413	1150	50	279.5	0.572	0.003	0.001	0.580	19	19	13	8	-0.001	0.01	0	0	0.111	0.075	0.048	Light	Light	Moderate
A	SLZ1	421	0	100	279.5	0.634	-0.015	0.007	0.641	17	17	12	8					0.110	0.080	0.049	Light	Light	Moderate
E	SLZ1	421	0	100	279.5	0.619	-0.013	0.001	0.626	18	18	13	8	-0.015	0.002	-0.006	1	0.111	0.079	0.051	Light	Light	Moderate
A	SLZ1	422	575	100	279.5	0.617	-0.007	-0.015	0.626	20	20	14	8					0.124	0.086	0.052	Light	Light	Moderate
E	SLZ1	422	575	100	279.5	0.606	-0.003	-0.012	0.615	20	20	14	9	-0.011	0.004	0.003	0	0.123	0.085	0.055	Light	Light	Moderate
A	SLZ1	423	1150	100	279.5	0.645	-0.003	0.002	0.651	17	17	12	8					0.113	0.080	0.052	Light	Light	Moderate
E	SLZ1	423	1150	100	279.5	0.641	-0.002	0.005	0.646	16	16	12	7	-0.004	0.001	0.003	-1	0.103	0.078	0.048	Light	Light	Moderate
A	SLZ1	431	0	150	279.5	0.668	-0.018	0.003	0.673	17	16	12	8					0.111	0.080	0.053	Light	Light	Moderate
E	SLZ1	431	0	150	279.5	0.66	-0.01	0.002	0.666	16	16	13	8	-0.008	0.008	-0.001	-1	0.109	0.084	0.052	Light	Light	Moderate
A	SLZ1	432	575	150	279.5	0.657	-0.006	-0.005	0.662	17	17	12	8					0.112	0.082	0.052	Light	Light	Moderate
E	SLZ1	432	575	150	279.5	0.649	-0.006	-0.005	0.655	16	16	12	8	-0.008	0	0	-1	0.107	0.079	0.053	Light	Light	Moderate
A	SLZ1	433	1150	150	279.5	0.669	-0.007	0.003	0.674	16	16	12	8					0.108	0.082	0.054	Light	Light	Moderate
E	SLZ1	433	1150	150	279.5	0.678	-0.01	0	0.682	17	17	12	8	0.009	-0.003	-0.003	1	0.113	0.079	0.056	Light	Light	Moderate
A	SLZ1	441	0	250	279.5	0.704	-0.015	0.004	0.709	16	16	12	9					0.114	0.088	0.062	Light	Light	Moderate
E	SLZ1	441	0	250	279.5	0.7	-0.012	0.001	0.704	16	16	12	9	-0.004	0.003	-0.003	0	0.112	0.083	0.060	Light	Light	Moderate
A	SLZ1	442	575	250	279.5	0.686	-0.012	-0.004	0.690	16	16	12	8					0.107	0.080	0.058	Light	Light	Moderate
E	SLZ1	442	575	250	279.5	0.713	-0.009	-0.008	0.716	14	14	12	9	0.027	0.003	-0.004	-2	0.101	0.083	0.062	Light	Light	Moderate
A	SLZ1	443	1150	250	279.5	0.701	-0.004	0	0.705	16	16	11	9					0.111	0.081	0.062	Light	Light	Moderate
E	SLZ1	443	1150	250	279.5	0.708	-0.008	0.005	0.712	15	15	11	9	0.007	-0.004	0.005	-1	0.105	0.080	0.063	Light	Light	Moderate
A	SLZ2	501	0	25	279.5	0.513	-0.01	-0.003	0.525	19	20	14	9					0.103	0.073	0.047	Light	Light	Moderate
E	SLZ2	501	0	25	279.5	0.487	0.002	-0.002	0.502	20	21	15	10	-0.026	0.012	0.001	1	0.104	0.075	0.052	Light	Light	Moderate
A	SLZ2	502	575	25	279.5	0.52	-0.009	-0.003	0.533	19	20	15	9					0.106	0.083	0.049	Light	Light	Moderate
E	SLZ2	502	575	25	279.5	0.499	-0.012	0.002	0.514	20	20	15	10	-0.021	-0.003	0.005	1	0.105	0.079	0.053	Light	Light	Moderate
A	SLZ2	503	1150	25	279.5	0.53	-0.012	0.002	0.543	20	21	15	9					0.112	0.083	0.049	Light	Light	Moderate
E	SLZ2	503	1150	25	279.5	0.532	-0.001	0.006	0.544	20	21	15	9	0.002	0.011	0.004	0	0.114	0.079	0.049	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	SLZ2	511	0	50	279.5	0.579	-0.008	0	0.587	18	18	13	7					0.106	0.076	0.044	Light	Light	Moderate
E	SLZ2	511	0	50	279.5	0.546	0	-0.003	0.558	19	20	14	9	-0.033	0.008	-0.003	1	0.110	0.080	0.049	Light	Light	Moderate
A	SLZ2	512	575	50	279.5	0.551	-0.007	-0.005	0.563	20	20	15	9					0.112	0.084	0.053	Light	Light	Moderate
E	SLZ2	512	575	50	279.5	0.547	-0.012	-0.003	0.561	19	20	16	10	-0.004	-0.005	0.002	-1	0.109	0.088	0.055	Light	Light	Moderate
A	SLZ2	513	1150	50	279.5	0.57	-0.005	0.001	0.580	19	20	14	9					0.115	0.080	0.049	Light	Light	Moderate
E	SLZ2	513	1150	50	279.5	0.577	-0.002	0.003	0.586	20	20	14	9	0.007	0.003	0.002	1	0.116	0.080	0.051	Light	Light	Moderate
A	SLZ2	521	0	100	279.5	0.626	-0.011	0.003	0.632	17	17	13	8					0.106	0.081	0.051	Light	Light	Moderate
E	SLZ2	521	0	100	279.5	0.593	-0.004	-0.001	0.602	20	20	13	9	-0.033	0.007	-0.004	3	0.119	0.076	0.054	Light	Light	Moderate
A	SLZ2	522	575	100	279.5	0.603	-0.013	-0.004	0.613	19	19	14	8					0.116	0.089	0.052	Light	Light	Moderate
E	SLZ2	522	575	100	279.5	0.605	-0.015	-0.001	0.615	19	19	14	9	0.002	-0.002	0.003	0	0.118	0.086	0.057	Light	Light	Moderate
A	SLZ2	523	1150	100	279.5	0.625	0	0	0.633	18	18	13	8					0.114	0.083	0.051	Light	Light	Moderate
E	SLZ2	523	1150	100	279.5	0.64	-0.001	-0.002	0.646	17	17	12	8	0.015	-0.001	-0.002	-1	0.112	0.079	0.051	Light	Light	Moderate
A	SLZ2	531	0	150	279.5	0.658	-0.005	0.005	0.664	17	17	13	8					0.110	0.087	0.054	Light	Light	Moderate
E	SLZ2	531	0	150	279.5	0.638	-0.004	-0.001	0.645	17	17	13	9	-0.02	0.001	-0.006	0	0.108	0.081	0.056	Light	Light	Moderate
A	SLZ2	532	575	150	279.5	0.656	-0.008	-0.004	0.663	17	17	13	8					0.110	0.087	0.054	Light	Light	Moderate
E	SLZ2	532	575	150	279.5	0.645	-0.011	-0.002	0.652	18	18	13	8	-0.011	-0.003	0.002	1	0.115	0.085	0.053	Light	Light	Moderate
A	SLZ2	533	1150	150	279.5	0.662	-0.006	0.001	0.668	17	17	13	8					0.111	0.086	0.054	Light	Light	Moderate
E	SLZ2	533	1150	150	279.5	0.647	-0.005	0.004	0.653	16	16	12	8	-0.015	0.001	0.003	-1	0.103	0.079	0.054	Light	Light	Moderate
A	SLZ2	541	0	250	279.5	0.701	-0.018	0	0.706	16	16	12	8					0.113	0.085	0.060	Light	Light	Moderate
E	SLZ2	541	0	250	279.5	0.707	-0.003	-0.002	0.711	16	16	12	9	0.006	0.015	-0.002	0	0.111	0.084	0.061	Light	Light	Moderate
A	SLZ2	542	575	250	279.5	0.703	-0.005	-0.002	0.708	15	15	12	9					0.105	0.084	0.062	Light	Light	Moderate
E	SLZ2	542	575	250	279.5	0.693	-0.008	0.001	0.698	14	15	12	9	-0.01	-0.003	0.003	-1	0.101	0.084	0.059	Light	Light	Moderate
A	SLZ2	543	1150	250	279.5	0.695	-0.014	0	0.700	16	16	12	9					0.111	0.084	0.062	Light	Light	Moderate
E	SLZ2	543	1150	250	279.5	0.699	0	0.002	0.703	14	14	12	9	0.004	0.014	0.002	-2	0.100	0.083	0.061	Light	Light	Moderate
A	Runway	101	0	25	302	0.523	-0.013	0.002	0.536	21	21	15	10					0.113	0.082	0.051	Light	Light	Moderate
E	Runway	101	0	25	302	0.515	-0.016	0.005	0.529	20	21	15	10	-0.008	-0.003	0.003	-1	0.111	0.078	0.052	Light	Light	Moderate
A	Runway	102	695	25	302	0.522	-0.011	0.007	0.534	20	21	15	9					0.110	0.081	0.047	Light	Light	Moderate
E	Runway	102	695	25	302	0.499	-0.004	0.011	0.513	21	21	15	10	-0.023	0.007	0.004	1	0.109	0.077	0.052	Light	Light	Moderate
A	Runway	103	1389	25	302	0.53	-0.009	0.007	0.542	19	19	15	8					0.103	0.084	0.045	Light	Light	Moderate
E	Runway	103	1389	25	302	0.482	-0.036	0.009	0.501	21	22	18	10	-0.048	-0.027	0.002	2	0.109	0.090	0.052	Light	Light	Moderate
A	Runway	104	2064	25	302	0.513	-0.003	0.005	0.525	20	20	15	8					0.105	0.080	0.044	Light	Light	Moderate
E	Runway	104	2064	25	302	0.515	-0.024	0.005	0.528	20	21	16	9	0.002	-0.021	0	0	0.108	0.082	0.046	Light	Light	Moderate
A	Runway	105	2739	25	302	0.536	0.002	0.005	0.547	19	19	15	8					0.105	0.081	0.044	Light	Light	Moderate
E	Runway	105	2739	25	302	0.477	-0.035	0.006	0.495	20	21	17	10	-0.059	-0.037	0.001	1	0.102	0.084	0.050	Light	Light	Moderate
A	Runway	106	3300	25	302	0.54	-0.009	0.002	0.551	18	18	15	8					0.100	0.081	0.043	Light	Light	Moderate
E	Runway	106	3300	25	302	0.442	-0.005	0.012	0.467	24	26	21	13	-0.098	0.004	0.01	6	0.120	0.099	0.058	Light	Light	Moderate
A	Runway	107	3875	25	302	0.454	-0.041	-0.007	0.476	23	24	17	13					0.114	0.083	0.061	Light	Light	Moderate
E	Runway	107	3875	25	302	0.459	-0.043	-0.009	0.483	24	26	18	13	0.005	-0.002	-0.002	1	0.123	0.089	0.062	Light	Light	Moderate
A	Runway	108	4450	25	302	0.455	-0.029	-0.001	0.479	23	25	20	12					0.119	0.098	0.060	Light	Light	Moderate
E	Runway	108	4450	25	302	0.45	-0.039	0.006	0.473	24	26	19	12	-0.005	-0.01	0.007	1	0.121	0.089	0.058	Light	Light	Moderate
A	Runway	111	0	50	302	0.557	-0.021	0.004	0.569	20	20	15	9					0.112	0.083	0.054	Light	Light	Moderate
E	Runway	111	0	50	302	0.575	-0.015	0.002	0.587	20	21	15	9	0.018	0.006	-0.002	0	0.122	0.086	0.055	Light	Light	Moderate
A	Runway	112	695	50	302	0.551	-0.012	0.008	0.563	19	20	15	9					0.111	0.083	0.052	Light	Light	Moderate
E	Runway	112	695	50	302	0.54	-0.021	0.006	0.554	21	22	15	10	-0.011	-0.009	-0.002	2	0.120	0.086	0.055	Light	Light	Moderate
A	Runway	113	1389	50	302	0.557	-0.012	0.009	0.567	19	19	14	8					0.107	0.079	0.048	Light	Light	Moderate
E	Runway	113	1389	50	302	0.52	-0.033	0.009	0.536	21	21	16	10	-0.037	-0.021	0	2	0.114	0.086	0.056	Light	Light	Moderate
A	Runway	114	2064	50	302	0.565	-0.001	0.009	0.576	19	19	15	8					0.111	0.089	0.048	Light	Light	Moderate
E	Runway	114	2064	50	302	0.544	-0.018	0.005	0.556	20	20	15	9	-0.021	-0.017	-0.004	1	0.113	0.083	0.050	Light	Light	Moderate
A	Runway	115	2739	50	302	0.577	-0.002	0.007	0.586	18	18	14	8					0.108	0.081	0.048	Light	Light	Moderate
E	Runway	115	2739	50	302	0.525	-0.028	0.002	0.541	20	20	17	10	-0.052	-0.026	-0.005	2	0.110	0.090	0.054	Light	Light	Moderate
A	Runway	116	3300	50	302	0.589	-0.012	0.004	0.598	18	18	14	8					0.109	0.085	0.047	Light	Light	Moderate
E	Runway	116	3300	50	302	0.492	-0.005	0.006	0.512	22	23	18	12	-0.097	0.007	0.002	4	0.117	0.095	0.062	Light	Light	Moderate
A	Runway	117	3875	50	302	0.519	-0.023	-0.019	0.535	21	22	16	11					0.117	0.086	0.058	Light	Light	Moderate
E	Runway	117	3875	50	302	0.505	-0.026	-0.019	0.523	23	24	16	11	-0.014	-0.003	0	2	0.124	0.084	0.058	Light	Light	Moderate
A	Runway	118	4450	50	302	0.496	-0.022	-0.006	0.516	23	24	19	12					0.123	0.096	0.062	Light	Light	Moderate
E	Runway	118	4450	50	302	0.501	-0.017	-0.005	0.520	24	25	18	11	0.005	0.005	0.001	1	0.132	0.093	0.059	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference			Sigma			Turbulence Classification			
						U/Uref	V/Uref	W/Uref	UVW /Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])			(% [UVW])						
A	HPLZ1	212	675	50	302	0.571	-0.007	0.005	0.582	18	18	15	8					0.106	0.086	0.048	Light	Light	Moderate
E	HPLZ1	212	675	50	302	0.546	-0.016	0.006	0.558	20	20	15	9	-0.025	-0.009	0.001	2	0.111	0.085	0.052	Light	Light	Moderate
A	HPLZ1	213	1350	50	302	0.572	0.011	0.012	0.583	18	18	14	8					0.107	0.083	0.048	Light	Light	Moderate
E	HPLZ1	213	1350	50	302	0.558	-0.011	0.007	0.569	18	18	15	9	-0.014	-0.022	-0.005	0	0.105	0.083	0.053	Light	Light	Moderate
A	HPLZ1	221	0	100	302	0.623	-0.009	-0.001	0.632	18	18	14	9					0.112	0.088	0.054	Light	Light	Moderate
E	HPLZ1	221	0	100	302	0.628	-0.027	-0.007	0.637	18	18	14	9	0.005	-0.018	-0.006	0	0.114	0.088	0.057	Light	Light	Moderate
A	HPLZ1	222	675	100	302	0.613	-0.014	0.007	0.622	18	19	14	9					0.115	0.088	0.053	Light	Light	Moderate
E	HPLZ1	222	675	100	302	0.61	-0.014	0.001	0.619	20	20	14	9	-0.003	0	-0.006	2	0.121	0.087	0.055	Light	Light	Moderate
A	HPLZ1	223	1350	100	302	0.628	0.002	0.008	0.636	17	17	14	8					0.110	0.088	0.052	Light	Light	Moderate
E	HPLZ1	223	1350	100	302	0.629	-0.008	0.002	0.637	18	18	14	8	0.001	-0.01	-0.006	1	0.113	0.086	0.051	Light	Light	Moderate
A	HPLZ1	231	0	150	302	0.665	-0.01	-0.002	0.671	17	17	13	8					0.115	0.087	0.055	Light	Light	Moderate
E	HPLZ1	231	0	150	302	0.667	-0.017	-0.007	0.673	17	17	13	8	0.002	-0.007	-0.005	0	0.116	0.084	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	302	0.643	-0.01	0.005	0.650	17	17	13	9					0.112	0.082	0.057	Light	Light	Moderate
E	HPLZ1	232	675	150	302	0.641	-0.011	0.004	0.648	18	18	13	9	-0.002	-0.001	-0.001	1	0.117	0.086	0.058	Light	Light	Moderate
A	HPLZ1	233	1350	150	302	0.642	-0.005	0.008	0.650	18	18	14	9					0.115	0.090	0.058	Light	Light	Moderate
E	HPLZ1	233	1350	150	302	0.664	-0.017	-0.001	0.670	17	17	13	8	0.022	-0.012	-0.009	-1	0.117	0.087	0.056	Light	Light	Moderate
A	HPLZ1	241	0	250	302	0.714	-0.013	-0.002	0.718	16	16	12	9					0.117	0.085	0.065	Light	Light	Moderate
E	HPLZ1	241	0	250	302	0.707	-0.013	0.001	0.712	17	17	12	9	-0.007	0	0.003	1	0.119	0.087	0.061	Light	Light	Moderate
A	HPLZ1	242	675	250	302	0.697	-0.012	0.005	0.702	17	17	13	9					0.120	0.088	0.061	Light	Light	Moderate
E	HPLZ1	242	675	250	302	0.69	-0.011	0.002	0.695	17	17	12	9	-0.007	0.001	-0.003	0	0.121	0.085	0.063	Light	Light	Moderate
A	HPLZ1	243	1350	250	302	0.718	-0.016	0.001	0.723	16	16	13	9					0.118	0.092	0.063	Light	Light	Moderate
E	HPLZ1	243	1350	250	302	0.701	-0.015	-0.002	0.706	16	16	12	9	-0.017	0.001	-0.003	0	0.113	0.088	0.061	Light	Light	Moderate
A	HPLZ2	301	0	25	302	0.547	-0.003	0.002	0.557	19	19	14	8					0.104	0.080	0.047	Light	Light	Moderate
E	HPLZ2	301	0	25	302	0.533	0.015	-0.033	0.545	19	19	14	8	-0.014	0.018	-0.035	0	0.106	0.074	0.047	Light	Light	Moderate
A	HPLZ2	302	675	25	302	0.546	-0.009	0.003	0.556	18	18	14	8					0.102	0.078	0.047	Light	Light	Moderate
E	HPLZ2	302	675	25	302	0.523	-0.015	0.004	0.538	20	20	17	9	-0.023	-0.006	0.001	2	0.109	0.093	0.047	Light	Light	Moderate
A	HPLZ2	303	1350	25	302	0.55	-0.001	-0.005	0.560	19	19	14	8					0.106	0.079	0.044	Light	Light	Moderate
E	HPLZ2	303	1350	25	302	0.535	-0.011	-0.002	0.547	20	20	15	8	-0.015	-0.01	0.003	1	0.109	0.084	0.045	Light	Light	Moderate
A	HPLZ2	311	0	50	302	0.577	-0.02	0.006	0.587	18	18	14	9					0.107	0.082	0.050	Light	Light	Moderate
E	HPLZ2	311	0	50	302	0.594	-0.008	-0.017	0.602	17	17	13	8	0.017	0.012	-0.023	-1	0.104	0.077	0.050	Light	Light	Moderate
A	HPLZ2	312	675	50	302	0.598	-0.013	0.007	0.607	17	17	14	8					0.105	0.084	0.047	Light	Light	Moderate
E	HPLZ2	312	675	50	302	0.571	-0.022	0.006	0.582	19	19	15	9	-0.027	-0.009	-0.001	2	0.111	0.089	0.052	Light	Light	Moderate
A	HPLZ2	313	1350	50	302	0.589	-0.001	0.002	0.597	19	19	14	8					0.113	0.083	0.047	Light	Light	Moderate
E	HPLZ2	313	1350	50	302	0.593	-0.024	0.001	0.602	19	19	13	8	0.004	-0.023	-0.001	0	0.114	0.078	0.048	Light	Light	Moderate
A	HPLZ2	321	0	100	302	0.624	-0.015	0.003	0.632	18	18	13	9					0.112	0.083	0.056	Light	Light	Moderate
E	HPLZ2	321	0	100	302	0.647	-0.013	-0.009	0.654	18	18	13	9	0.023	0.002	-0.012	0	0.115	0.085	0.056	Light	Light	Moderate
A	HPLZ2	322	675	100	302	0.635	-0.009	0.006	0.641	17	17	13	8					0.107	0.080	0.053	Light	Light	Moderate
E	HPLZ2	322	675	100	302	0.607	-0.012	0.006	0.617	18	19	14	9	-0.028	-0.003	0	1	0.115	0.085	0.057	Light	Light	Moderate
A	HPLZ2	323	1350	100	302	0.628	-0.008	0.004	0.635	17	17	13	8					0.108	0.084	0.052	Light	Light	Moderate
E	HPLZ2	323	1350	100	302	0.62	-0.016	-0.003	0.627	17	18	12	8	-0.008	-0.008	-0.007	0	0.110	0.078	0.052	Light	Light	Moderate
A	HPLZ2	331	0	150	302	0.658	-0.014	0.002	0.665	18	18	14	9					0.118	0.091	0.060	Light	Light	Moderate
E	HPLZ2	331	0	150	302	0.664	-0.015	-0.005	0.670	18	18	12	9	0.006	-0.001	-0.007	0	0.118	0.083	0.059	Light	Light	Moderate
A	HPLZ2	332	675	150	302	0.653	-0.008	0.006	0.660	18	18	12	9					0.119	0.082	0.056	Light	Light	Moderate
E	HPLZ2	332	675	150	302	0.662	-0.012	0.003	0.669	18	18	13	9	0.009	-0.004	-0.003	0	0.121	0.089	0.057	Light	Light	Moderate
A	HPLZ2	333	1350	150	302	0.665	-0.015	0	0.671	19	19	13	9					0.125	0.088	0.058	Light	Light	Moderate
E	HPLZ2	333	1350	150	302	0.652	-0.014	0.001	0.658	17	17	13	9	-0.013	0.001	0.001	-2	0.114	0.083	0.057	Light	Light	Moderate
A	HPLZ2	341	0	250	302	0.717	-0.015	0	0.722	16	16	13	8					0.117	0.090	0.061	Light	Light	Moderate
E	HPLZ2	341	0	250	302	0.713	-0.008	-0.004	0.718	16	16	12	9	-0.004	0.007	-0.004	0	0.115	0.088	0.062	Light	Light	Moderate
A	HPLZ2	342	675	250	302	0.709	-0.01	0.003	0.713	16	16	12	9					0.111	0.087	0.062	Light	Light	Moderate
E	HPLZ2	342	675	250	302	0.704	-0.01	0.003	0.709	16	16	13	9	-0.005	0	0	0	0.117	0.094	0.062	Light	Light	Moderate
A	HPLZ2	343	1350	250	302	0.697	-0.009	0.005	0.702	16	16	13	9					0.116	0.088	0.064	Light	Light	Moderate
E	HPLZ2	343	1350	250	302	0.691	-0.01	-0.001	0.697	17	17	12	9	-0.006	-0.001	-0.006	1	0.117	0.085	0.062	Light	Light	Moderate
A	SLZ1	401	0	25	302	0.526	-0.008	-0.001	0.537	19	19	14	9					0.101	0.076	0.046	Light	Light	Moderate
E	SLZ1	401	0	25	302	0.478	-0.025	0.007	0.496	21	22	18	10	-0.048	-0.017	0.008	2	0.111	0.090	0.051	Light	Light	Moderate
A	SLZ1	402	575	25	302	0.518	-0.009	0.004	0.532	19	19	16	9					0.103	0.083	0.049	Light	Light	Moderate
E	SLZ1	402	575	25	302	0.5	-0.005	0.004	0.515	20	21	16	10	-0.018	0.004	0	1	0.107	0.081	0.052	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification				
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W		
										(% [UVW])															
A	Runway	101	0	25	324.5	0.551	-0.004	0.004	0.562	19	19	15	8							0.107	0.082	0.046	Light	Light	Moderate
E	Runway	101	0	25	324.5	0.563	-0.012	0.006	0.573	20	20	14	8	0.012	-0.008	0.002	1			0.113	0.082	0.044	Light	Light	Moderate
A	Runway	102	695	25	324.5	0.536	-0.004	0.009	0.549	20	20	16	8							0.109	0.087	0.046	Light	Light	Moderate
E	Runway	102	695	25	324.5	0.525	-0.017	0.014	0.537	19	19	15	8	-0.011	-0.013	0.005	-1			0.103	0.082	0.045	Light	Light	Moderate
A	Runway	103	1389	25	324.5	0.521	-0.006	0.006	0.534	20	20	15	9							0.106	0.082	0.046	Light	Light	Moderate
E	Runway	103	1389	25	324.5	0.538	-0.002	0.005	0.548	18	18	13	8	0.017	0.004	-0.001	-2			0.100	0.070	0.043	Light	Light	Light
A	Runway	104	2064	25	324.5	0.529	-0.003	0.003	0.541	18	19	15	8							0.100	0.082	0.045	Light	Light	Moderate
E	Runway	104	2064	25	324.5	0.515	-0.013	0.004	0.528	19	19	15	9	-0.014	-0.01	0.001	1			0.101	0.079	0.048	Light	Light	Moderate
A	Runway	105	2739	25	324.5	0.531	-0.006	0.003	0.542	18	19	14	8							0.100	0.077	0.044	Light	Light	Moderate
E	Runway	105	2739	25	324.5	0.538	-0.016	0.006	0.549	19	19	15	8	0.007	-0.01	0.003	1			0.104	0.080	0.045	Light	Light	Moderate
A	Runway	106	3300	25	324.5	0.562	-0.002	-0.002	0.573	18	18	15	8							0.102	0.084	0.045	Light	Light	Moderate
E	Runway	106	3300	25	324.5	0.55	-0.024	0	0.560	18	18	14	8	-0.012	-0.022	0.002	0			0.100	0.076	0.045	Light	Light	Moderate
A	Runway	107	3875	25	324.5	0.528	-0.02	0.001	0.542	20	20	16	9							0.108	0.089	0.049	Light	Light	Moderate
E	Runway	107	3875	25	324.5	0.496	-0.025	0.004	0.514	21	21	18	10	-0.032	-0.005	0.003	1			0.110	0.092	0.051	Light	Light	Moderate
A	Runway	108	4450	25	324.5	0.53	-0.017	0.002	0.542	20	20	15	9							0.107	0.081	0.048	Light	Light	Moderate
E	Runway	108	4450	25	324.5	0.494	-0.023	0.003	0.510	21	21	16	10	-0.036	-0.006	0.001	1			0.108	0.082	0.052	Light	Light	Moderate
A	Runway	111	0	50	324.5	0.61	-0.006	0.007	0.619	17	18	14	8							0.108	0.085	0.049	Light	Light	Moderate
E	Runway	111	0	50	324.5	0.595	-0.009	0.011	0.604	18	18	14	7	-0.015	-0.003	0.004	1			0.111	0.087	0.044	Light	Light	Moderate
A	Runway	112	695	50	324.5	0.564	-0.004	0.009	0.575	19	20	15	9							0.113	0.087	0.050	Light	Light	Moderate
E	Runway	112	695	50	324.5	0.575	-0.018	0.01	0.585	19	19	13	8	0.011	-0.014	0.001	0			0.109	0.079	0.048	Light	Light	Moderate
A	Runway	113	1389	50	324.5	0.569	-0.007	0.008	0.580	19	19	14	9							0.113	0.084	0.050	Light	Light	Moderate
E	Runway	113	1389	50	324.5	0.579	-0.008	0.005	0.588	19	19	13	8	0.01	-0.001	-0.003	0			0.110	0.076	0.048	Light	Light	Moderate
A	Runway	114	2064	50	324.5	0.572	-0.008	0.008	0.582	18	18	14	8							0.107	0.084	0.048	Light	Light	Moderate
E	Runway	114	2064	50	324.5	0.574	-0.018	0.005	0.584	19	19	14	9	0.002	-0.01	-0.003	1			0.113	0.084	0.050	Light	Light	Moderate
A	Runway	115	2739	50	324.5	0.576	-0.008	0.006	0.585	18	18	14	8							0.107	0.081	0.046	Light	Light	Moderate
E	Runway	115	2739	50	324.5	0.566	-0.016	0.008	0.576	18	18	14	8	-0.01	-0.008	0.002	0			0.105	0.083	0.049	Light	Light	Moderate
A	Runway	116	3300	50	324.5	0.585	-0.004	0.006	0.593	17	17	13	8							0.102	0.079	0.046	Light	Light	Moderate
E	Runway	116	3300	50	324.5	0.596	-0.024	0.001	0.604	17	18	13	8	0.011	-0.02	-0.005	0			0.106	0.076	0.046	Light	Light	Moderate
A	Runway	117	3875	50	324.5	0.56	-0.022	0.002	0.571	20	20	15	9							0.113	0.083	0.050	Light	Light	Moderate
E	Runway	117	3875	50	324.5	0.548	-0.038	0.007	0.562	21	21	16	9	-0.012	-0.016	0.005	1			0.118	0.089	0.051	Light	Light	Moderate
A	Runway	118	4450	50	324.5	0.554	-0.012	0	0.565	19	19	15	9							0.110	0.085	0.053	Light	Light	Moderate
E	Runway	118	4450	50	324.5	0.528	-0.022	0.002	0.542	20	20	15	10	-0.026	-0.01	0.002	1			0.110	0.083	0.054	Light	Light	Moderate
A	Runway	121	0	100	324.5	0.646	-0.008	0.01	0.653	18	18	14	8							0.117	0.090	0.052	Light	Light	Moderate
E	Runway	121	0	100	324.5	0.645	-0.015	0.011	0.652	17	17	13	8	-0.001	-0.007	0.001	-1			0.112	0.086	0.050	Light	Light	Moderate
A	Runway	122	695	100	324.5	0.623	-0.015	0.009	0.632	19	19	14	8							0.118	0.087	0.053	Light	Light	Moderate
E	Runway	122	695	100	324.5	0.625	-0.014	0.011	0.633	18	18	13	8	0.002	0.001	0.002	-1			0.116	0.083	0.052	Light	Light	Moderate
A	Runway	123	1389	100	324.5	0.612	-0.012	0.008	0.621	18	18	14	8							0.114	0.089	0.052	Light	Light	Moderate
E	Runway	123	1389	100	324.5	0.638	-0.017	0	0.645	18	18	13	8	0.026	-0.005	-0.008	0			0.118	0.082	0.051	Light	Light	Moderate
A	Runway	124	2064	100	324.5	0.625	-0.01	0.004	0.632	18	18	13	8							0.111	0.083	0.052	Light	Light	Moderate
E	Runway	124	2064	100	324.5	0.604	-0.022	0.004	0.612	19	19	13	9	-0.021	-0.012	0	1			0.117	0.080	0.053	Light	Light	Moderate
A	Runway	125	2739	100	324.5	0.618	-0.008	0.005	0.626	17	18	13	8							0.110	0.084	0.053	Light	Light	Moderate
E	Runway	125	2739	100	324.5	0.609	-0.022	0.005	0.618	17	17	14	9	-0.009	-0.014	0	0			0.106	0.089	0.054	Light	Light	Moderate
A	Runway	126	3300	100	324.5	0.626	-0.002	0.006	0.633	17	17	13	8							0.107	0.080	0.051	Light	Light	Moderate
E	Runway	126	3300	100	324.5	0.62	-0.016	0.001	0.628	17	18	13	9	-0.006	-0.014	-0.005	0			0.111	0.082	0.055	Light	Light	Moderate
A	Runway	127	3875	100	324.5	0.636	-0.026	0.001	0.643	16	16	13	8							0.106	0.082	0.052	Light	Light	Moderate
E	Runway	127	3875	100	324.5	0.591	-0.033	0	0.601	20	20	13	9	-0.045	-0.007	-0.001	-4			0.122	0.080	0.055	Light	Light	Moderate
A	Runway	128	4450	100	324.5	0.633	-0.018	-0.002	0.640	17	17	13	8							0.108	0.086	0.053	Light	Light	Moderate
E	Runway	128	4450	100	324.5	0.592	-0.019	-0.003	0.602	19	19	14	9	-0.041	-0.001	-0.001	2			0.116	0.085	0.057	Light	Light	Moderate
A	Runway	131	0	150	324.5	0.675	-0.008	0.01	0.680	17	17	12	8							0.114	0.084	0.057	Light	Light	Moderate
E	Runway	131	0	150	324.5	0.672	-0.007	0.011	0.678	17	17	12	8	-0.003	0.001	0.001	0			0.117	0.083	0.057	Light	Light	Moderate
A	Runway	132	695	150	324.5	0.666	-0.009	0.009	0.672	16	17	13	8							0.111	0.089	0.054	Light	Light	Moderate
E	Runway	132	695	150	324.5	0.657	-0.017	0.015	0.663	17	17	13	8	-0.009	-0.008	0.006	1			0.112	0.084	0.052	Light	Light	Moderate
A	Runway	133	1389	150	324.5	0.647	-0.008	0.006	0.654	18	19	14	8							0.121	0.089	0.055	Light	Light	Moderate
E	Runway	133	1389	150	324.5	0.678	-0.017	0.001	0.683	17	17	12	8	0.031	-0.009	-0.005	-1			0.113	0.085	0.053	Light	Light	Moderate
A	Runway	134	2064	150	324.5	0.656	-0.009	0.008	0.662	18	18	13	9							0.118	0.086	0.057	Light	Light	Moderate
E	Runway	134	2064	150	324.5	0.66	-0.015	-0.003	0.667	18	18	13	8	0.004	-0.006	-0.011	0			0.123	0.088	0.055	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
										(% [UVW])													
A	Runway	135	2739	150	324.5	0.654	-0.01	0.005	0.661	17	17	13	8					0.111	0.088	0.054	Light	Light	Moderate
E	Runway	135	2739	150	324.5	0.647	-0.01	0.003	0.654	18	18	13	9	-0.007	0	-0.002	1	0.115	0.084	0.057	Light	Light	Moderate
A	Runway	136	3300	150	324.5	0.654	-0.008	0.007	0.660	17	17	12	8					0.111	0.080	0.056	Light	Light	Moderate
E	Runway	136	3300	150	324.5	0.659	-0.01	0	0.665	16	16	13	8	0.005	-0.002	-0.007	-1	0.106	0.083	0.055	Light	Light	Moderate
A	Runway	137	3875	150	324.5	0.657	-0.016	0	0.663	16	16	13	8					0.105	0.084	0.055	Light	Light	Moderate
E	Runway	137	3875	150	324.5	0.642	-0.028	-0.006	0.650	18	18	13	9	-0.015	-0.012	-0.006	2	0.117	0.084	0.057	Light	Light	Moderate
A	Runway	138	4450	150	324.5	0.658	-0.012	0.001	0.665	18	18	13	8					0.117	0.090	0.054	Light	Light	Moderate
E	Runway	138	4450	150	324.5	0.641	-0.016	-0.002	0.649	19	19	13	9	-0.017	-0.004	-0.003	1	0.122	0.086	0.057	Light	Light	Moderate
A	Runway	141	0	250	324.5	0.712	-0.007	0.009	0.717	15	15	12	9					0.111	0.086	0.065	Light	Light	Moderate
E	Runway	141	0	250	324.5	0.709	-0.011	0.007	0.713	16	16	12	9	-0.003	-0.004	-0.002	1	0.116	0.082	0.061	Light	Light	Moderate
A	Runway	142	695	250	324.5	0.728	-0.014	0.003	0.732	16	16	13	9					0.114	0.092	0.065	Light	Light	Moderate
E	Runway	142	695	250	324.5	0.707	-0.015	0.007	0.711	15	15	12	8	-0.021	-0.001	0.004	-1	0.109	0.085	0.060	Light	Light	Moderate
A	Runway	143	1389	250	324.5	0.702	-0.013	0.004	0.707	16	16	13	9					0.114	0.091	0.060	Light	Light	Moderate
E	Runway	143	1389	250	324.5	0.706	-0.011	0.004	0.710	16	16	12	8	0.004	0.002	0	0	0.112	0.087	0.058	Light	Light	Moderate
A	Runway	144	2064	250	324.5	0.698	-0.016	0.009	0.703	17	17	13	9					0.118	0.091	0.063	Light	Light	Moderate
E	Runway	144	2064	250	324.5	0.718	-0.011	-0.003	0.723	15	15	13	8	0.02	0.005	-0.012	-2	0.109	0.091	0.060	Light	Light	Moderate
A	Runway	145	2739	250	324.5	0.71	-0.006	0.003	0.714	16	16	12	9					0.115	0.086	0.062	Light	Light	Moderate
E	Runway	145	2739	250	324.5	0.705	-0.014	-0.002	0.709	17	17	12	8	-0.005	-0.008	-0.005	1	0.119	0.086	0.059	Light	Light	Moderate
A	Runway	146	3300	250	324.5	0.682	-0.019	0.007	0.687	16	16	12	9					0.107	0.082	0.062	Light	Light	Moderate
E	Runway	146	3300	250	324.5	0.694	-0.013	0.005	0.700	16	16	13	9	0.012	0.006	-0.002	0	0.114	0.089	0.062	Light	Light	Moderate
A	Runway	147	3875	250	324.5	0.682	-0.02	-0.003	0.687	17	17	12	9					0.119	0.082	0.062	Light	Light	Moderate
E	Runway	147	3875	250	324.5	0.689	-0.018	-0.003	0.693	16	16	11	9	0.007	0.002	0	-1	0.113	0.078	0.061	Light	Light	Moderate
A	Runway	148	4450	250	324.5	0.694	-0.015	-0.002	0.699	16	16	12	9					0.110	0.085	0.063	Light	Light	Moderate
E	Runway	148	4450	250	324.5	0.687	-0.016	-0.003	0.692	17	17	12	9	-0.007	-0.001	-0.001	1	0.118	0.085	0.061	Light	Light	Moderate
A	HPLZ1	201	0	25	324.5	0.535	-0.009	-0.004	0.546	20	20	15	9					0.111	0.080	0.046	Light	Light	Moderate
E	HPLZ1	201	0	25	324.5	0.528	-0.001	-0.001	0.539	18	18	14	8	-0.007	0.008	0.003	-2	0.099	0.075	0.043	Light	Light	Moderate
A	HPLZ1	202	675	25	324.5	0.525	-0.002	0.004	0.537	18	19	15	8					0.100	0.079	0.044	Light	Light	Moderate
E	HPLZ1	202	675	25	324.5	0.539	0	0	0.548	19	19	13	8	0.014	0.002	-0.004	1	0.102	0.071	0.041	Light	Light	Moderate
A	HPLZ1	203	1350	25	324.5	0.523	0.007	0.003	0.536	19	19	16	8					0.102	0.086	0.044	Light	Light	Moderate
E	HPLZ1	203	1350	25	324.5	0.529	-0.004	0.004	0.541	18	19	15	8	0.006	-0.011	0.001	-1	0.100	0.082	0.043	Light	Light	Moderate
A	HPLZ1	211	0	50	324.5	0.587	-0.01	-0.001	0.596	18	19	14	8					0.110	0.082	0.047	Light	Light	Moderate
E	HPLZ1	211	0	50	324.5	0.578	-0.012	0.002	0.587	19	19	14	8	-0.009	-0.002	0.003	1	0.109	0.081	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	324.5	0.586	-0.008	0.009	0.596	18	18	15	8					0.107	0.087	0.047	Light	Light	Moderate
E	HPLZ1	212	675	50	324.5	0.597	-0.002	0.005	0.604	18	18	13	7	0.011	0.006	-0.004	0	0.107	0.077	0.044	Light	Light	Moderate
A	HPLZ1	213	1350	50	324.5	0.58	0.004	0.008	0.590	18	18	15	8					0.106	0.087	0.045	Light	Light	Moderate
E	HPLZ1	213	1350	50	324.5	0.57	-0.004	0.013	0.581	18	18	15	8	-0.01	-0.008	0.005	0	0.103	0.087	0.047	Light	Light	Moderate
A	HPLZ1	221	0	100	324.5	0.617	-0.011	0.004	0.625	18	18	14	8					0.114	0.086	0.051	Light	Light	Moderate
E	HPLZ1	221	0	100	324.5	0.639	-0.008	0.002	0.645	19	19	12	8	0.022	0.003	-0.002	1	0.120	0.080	0.051	Light	Light	Moderate
A	HPLZ1	222	675	100	324.5	0.636	-0.01	0.008	0.645	17	17	14	8					0.112	0.092	0.052	Light	Light	Moderate
E	HPLZ1	222	675	100	324.5	0.625	-0.012	0.005	0.631	18	18	12	8	-0.011	-0.002	-0.003	1	0.113	0.075	0.050	Light	Light	Moderate
A	HPLZ1	223	1350	100	324.5	0.626	-0.004	0.012	0.634	17	17	13	8					0.109	0.085	0.050	Light	Light	Moderate
E	HPLZ1	223	1350	100	324.5	0.619	-0.007	0.01	0.627	17	17	13	8	-0.007	-0.003	-0.002	0	0.109	0.084	0.052	Light	Light	Moderate
A	HPLZ1	231	0	150	324.5	0.666	-0.016	0.002	0.671	17	17	12	8					0.113	0.082	0.054	Light	Light	Moderate
E	HPLZ1	231	0	150	324.5	0.685	-0.008	0.002	0.690	16	17	12	8	0.019	0.008	0	-1	0.114	0.085	0.056	Light	Light	Moderate
A	HPLZ1	232	675	150	324.5	0.67	-0.013	0.005	0.676	17	17	13	8					0.115	0.089	0.056	Light	Light	Moderate
E	HPLZ1	232	675	150	324.5	0.662	-0.009	0.002	0.667	16	16	12	8	-0.008	0.004	-0.003	-1	0.110	0.080	0.052	Light	Light	Moderate
A	HPLZ1	233	1350	150	324.5	0.652	-0.01	0.01	0.658	18	18	13	8					0.116	0.083	0.055	Light	Light	Moderate
E	HPLZ1	233	1350	150	324.5	0.663	-0.01	0.007	0.669	17	17	13	9	0.011	0	-0.003	-1	0.115	0.085	0.057	Light	Light	Moderate
A	HPLZ1	241	0	250	324.5	0.706	-0.009	0.005	0.711	16	16	12	9					0.115	0.088	0.062	Light	Light	Moderate
E	HPLZ1	241	0	250	324.5	0.722	-0.013	0.003	0.725	15	15	12	8	0.016	-0.004	-0.002	-1	0.112	0.089	0.059	Light	Light	Moderate
A	HPLZ1	242	675	250	324.5	0.702	-0.015	0.007	0.707	16	16	13	9					0.112	0.093	0.062	Light	Light	Moderate
E	HPLZ1	242	675	250	324.5	0.715	-0.015	0.002	0.719	15	15	12	8	0.013	0	-0.005	-1	0.110	0.086	0.058	Light	Light	Moderate
A	HPLZ1	243	1350	250	324.5	0.707	-0.009	0.007	0.712	17	17	13	9					0.118	0.090	0.061	Light	Light	Moderate
E	HPLZ1	243	1350	250	324.5	0.714	-0.014	0.007	0.720	16	16	13	9	0.007	-0.005	0	-1	0.113	0.092	0.064	Light	Light	Moderate
A	HPLZ2	301	0	25	324.5	0.552	-0.014	0.007	0.562	18	18	14	8					0.103	0.081	0.043	Light	Light	Moderate
E	HPLZ2	301	0	25	324.5	0.51	0.008	-0.045	0.524	20	20	15	8	-0.042	0.022	-0.052	2	0.106	0.079	0.044	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification				
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W		
										(% [UVW])															
A	HPLZ2	302	675	25	324.5	0.552	-0.011	0.004	0.563	18	18	15	8							0.101	0.083	0.043	Light	Light	Light
E	HPLZ2	302	675	25	324.5	0.534	-0.002	0.003	0.545	20	20	15	8	-0.018	0.009	-0.001	2			0.109	0.080	0.042	Light	Light	Light
A	HPLZ2	303	1350	25	324.5	0.549	-0.003	-0.005	0.559	19	19	14	8							0.108	0.080	0.044	Light	Light	Moderate
E	HPLZ2	303	1350	25	324.5	0.564	-0.001	-0.006	0.572	18	18	13	8	0.015	0.002	-0.001	-1			0.103	0.074	0.045	Light	Light	Moderate
A	HPLZ2	311	0	50	324.5	0.602	-0.013	0.008	0.611	18	18	14	8							0.111	0.086	0.047	Light	Light	Moderate
E	HPLZ2	311	0	50	324.5	0.583	0.002	-0.024	0.591	19	19	13	8	-0.019	0.015	-0.032	1			0.113	0.076	0.046	Light	Light	Moderate
A	HPLZ2	312	675	50	324.5	0.593	-0.003	0.009	0.601	18	18	13	8							0.110	0.080	0.047	Light	Light	Moderate
E	HPLZ2	312	675	50	324.5	0.582	-0.003	0.007	0.589	17	17	13	7	-0.011	0	-0.002	-1			0.098	0.075	0.043	Light	Light	Light
A	HPLZ2	313	1350	50	324.5	0.601	-0.01	0.001	0.609	17	17	13	8							0.103	0.079	0.046	Light	Light	Moderate
E	HPLZ2	313	1350	50	324.5	0.602	-0.008	0.003	0.609	18	18	13	8	0.001	0.002	0.002	1			0.112	0.080	0.047	Light	Light	Moderate
A	HPLZ2	321	0	100	324.5	0.652	-0.015	0.008	0.658	17	17	13	8							0.115	0.083	0.052	Light	Light	Moderate
E	HPLZ2	321	0	100	324.5	0.649	-0.007	-0.01	0.655	18	18	13	8	-0.003	0.008	-0.018	1			0.116	0.082	0.050	Light	Light	Moderate
A	HPLZ2	322	675	100	324.5	0.65	-0.019	0.01	0.656	17	17	13	8							0.110	0.083	0.051	Light	Light	Moderate
E	HPLZ2	322	675	100	324.5	0.629	-0.015	0.012	0.636	17	17	13	8	-0.021	0.004	0.002	0			0.111	0.082	0.052	Light	Light	Moderate
A	HPLZ2	323	1350	100	324.5	0.636	-0.003	0.004	0.643	17	17	13	8							0.109	0.086	0.053	Light	Light	Moderate
E	HPLZ2	323	1350	100	324.5	0.656	-0.007	0.003	0.661	16	17	12	8	0.02	-0.004	-0.001	-1			0.109	0.079	0.052	Light	Light	Moderate
A	HPLZ2	331	0	150	324.5	0.681	-0.016	0.006	0.686	17	17	13	8							0.114	0.089	0.054	Light	Light	Moderate
E	HPLZ2	331	0	150	324.5	0.674	0	-0.008	0.679	17	17	12	8	-0.007	0.016	-0.014	0			0.113	0.080	0.055	Light	Light	Moderate
A	HPLZ2	332	675	150	324.5	0.671	-0.014	0.009	0.676	17	17	13	8							0.113	0.086	0.054	Light	Light	Moderate
E	HPLZ2	332	675	150	324.5	0.677	-0.012	0.006	0.682	16	16	12	8	0.006	0.002	-0.003	-1			0.107	0.080	0.055	Light	Light	Moderate
A	HPLZ2	333	1350	150	324.5	0.676	-0.004	0.004	0.682	16	16	13	8							0.111	0.088	0.056	Light	Light	Moderate
E	HPLZ2	333	1350	150	324.5	0.675	-0.012	0.001	0.680	16	16	12	8	-0.001	-0.008	-0.003	0			0.109	0.083	0.055	Light	Light	Moderate
A	HPLZ2	341	0	250	324.5	0.706	-0.016	0.007	0.711	16	16	13	9							0.117	0.089	0.061	Light	Light	Moderate
E	HPLZ2	341	0	250	324.5	0.724	-0.009	-0.006	0.727	15	15	12	9	0.018	0.007	-0.013	-1			0.110	0.085	0.063	Light	Light	Moderate
A	HPLZ2	342	675	250	324.5	0.711	-0.014	0.007	0.716	16	16	13	9							0.113	0.091	0.062	Light	Light	Moderate
E	HPLZ2	342	675	250	324.5	0.704	-0.013	0.004	0.708	16	16	12	9	-0.007	0.001	-0.003	0			0.112	0.084	0.061	Light	Light	Moderate
A	HPLZ2	343	1350	250	324.5	0.701	-0.013	0.002	0.705	15	15	12	8							0.108	0.084	0.060	Light	Light	Moderate
E	HPLZ2	343	1350	250	324.5	0.716	-0.014	0.001	0.720	15	15	12	8	0.015	-0.001	-0.001	0			0.111	0.087	0.060	Light	Light	Moderate
A	SLZ1	401	0	25	324.5	0.543	-0.004	-0.003	0.553	18	18	14	8							0.099	0.076	0.044	Light	Light	Moderate
E	SLZ1	401	0	25	324.5	0.534	-0.011	0	0.544	17	18	14	8	-0.009	-0.007	0.003	-1			0.096	0.074	0.045	Light	Light	Moderate
A	SLZ1	402	575	25	324.5	0.536	-0.004	0.003	0.547	18	18	14	8							0.099	0.077	0.045	Light	Light	Moderate
E	SLZ1	402	575	25	324.5	0.552	-0.026	0.005	0.562	18	18	13	8	0.016	-0.022	0.002	0			0.103	0.074	0.045	Light	Light	Moderate
A	SLZ1	403	1150	25	324.5	0.557	-0.004	0.002	0.567	18	18	14	8							0.101	0.079	0.044	Light	Light	Moderate
E	SLZ1	403	1150	25	324.5	0.54	-0.016	0.006	0.552	20	20	15	8	-0.017	-0.012	0.004	2			0.109	0.083	0.047	Light	Light	Moderate
A	SLZ1	411	0	50	324.5	0.59	-0.005	0.006	0.598	16	17	13	8							0.099	0.080	0.047	Light	Light	Moderate
E	SLZ1	411	0	50	324.5	0.591	-0.007	0.003	0.599	18	18	13	8	0.001	-0.002	-0.003	2			0.106	0.075	0.048	Light	Light	Moderate
A	SLZ1	412	575	50	324.5	0.595	-0.016	0.006	0.603	18	18	13	7							0.109	0.081	0.044	Light	Light	Moderate
E	SLZ1	412	575	50	324.5	0.582	-0.022	0.009	0.590	18	18	13	8	-0.013	-0.006	0.003	0			0.109	0.074	0.046	Light	Light	Moderate
A	SLZ1	413	1150	50	324.5	0.599	-0.011	0.003	0.607	18	19	13	8							0.113	0.081	0.048	Light	Light	Moderate
E	SLZ1	413	1150	50	324.5	0.58	-0.024	0.006	0.590	19	19	15	8	-0.019	-0.013	0.003	1			0.111	0.086	0.048	Light	Light	Moderate
A	SLZ1	421	0	100	324.5	0.644	0	0.007	0.650	17	17	12	8							0.110	0.081	0.052	Light	Light	Moderate
E	SLZ1	421	0	100	324.5	0.637	-0.019	0.001	0.643	17	17	13	8	-0.007	-0.019	-0.006	0			0.107	0.081	0.051	Light	Light	Moderate
A	SLZ1	422	575	100	324.5	0.638	-0.012	0.007	0.645	17	17	14	8							0.110	0.087	0.050	Light	Light	Moderate
E	SLZ1	422	575	100	324.5	0.622	-0.025	0.005	0.629	18	18	13	8	-0.016	-0.013	-0.002	1			0.112	0.080	0.049	Light	Light	Moderate
A	SLZ1	423	1150	100	324.5	0.631	-0.017	0.008	0.638	17	17	13	8							0.108	0.083	0.050	Light	Light	Moderate
E	SLZ1	423	1150	100	324.5	0.622	-0.023	0.005	0.630	18	18	13	9	-0.009	-0.006	-0.003	1			0.113	0.082	0.054	Light	Light	Moderate
A	SLZ1	431	0	150	324.5	0.661	-0.009	0.001	0.666	17	17	12	9							0.114	0.079	0.057	Light	Light	Moderate
E	SLZ1	431	0	150	324.5	0.657	-0.008	0	0.663	18	17	13	8	-0.004	0.001	-0.001	1			0.116	0.085	0.056	Light	Light	Moderate
A	SLZ1	432	575	150	324.5	0.662	-0.015	0.004	0.668	17	17	12	8							0.113	0.080	0.054	Light	Light	Moderate
E	SLZ1	432	575	150	324.5	0.648	-0.021	0.004	0.654	16	16	12	8	-0.014	-0.006	0	-1			0.103	0.081	0.054	Light	Light	Moderate
A	SLZ1	433	1150	150	324.5	0.669	-0.022	0.005	0.675	16	16	13	8							0.110	0.085	0.056	Light	Light	Moderate
E	SLZ1	433	1150	150	324.5	0.656	-0.019	0.003	0.662	19	19	13	9	-0.013	0.003	-0.002	3			0.124	0.083	0.058	Light	Light	Moderate
A	SLZ1	441	0	250	324.5	0.705	-0.009	0.002	0.709	16	16	12	9							0.115	0.086	0.063	Light	Light	Moderate
E	SLZ1	441	0	250	324.5	0.699	-0.015	-0.001	0.704	16	16	12	9	-0.006	-0.006	-0.003	0			0.114	0.085	0.063	Light	Light	Moderate
A	SLZ1	442	575	250	324.5	0.702	-0.018	0.004	0.707	16	16	12	9							0.111	0.083	0.061	Light	Light	Moderate
E	SLZ1	442	575	250	324.5	0.694	-0.018	0.002	0.699	17	17	12	9	-0.008	0	-0.002	1			0.120	0.085	0.062	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])				(% [UVW])					
A	SLZ1	443	1150	250	324.5	0.696	-0.012	0.001	0.700	15	15	11	9					0.108	0.080	0.060	Light	Light	Moderate
E	SLZ1	443	1150	250	324.5	0.697	-0.015	0.001	0.701	17	17	12	9	0.001	-0.003	0	2	0.117	0.081	0.060	Light	Light	Moderate
A	SLZ2	501	0	25	324.5	0.537	-0.012	0	0.548	19	20	14	8					0.107	0.078	0.045	Light	Light	Moderate
E	SLZ2	501	0	25	324.5	0.542	-0.012	0.003	0.553	19	20	14	8	0.005	0	0.003	0	0.109	0.078	0.046	Light	Light	Moderate
A	SLZ2	502	575	25	324.5	0.56	-0.007	-0.001	0.569	18	18	13	8					0.101	0.075	0.044	Light	Light	Moderate
E	SLZ2	502	575	25	324.5	0.55	-0.013	0	0.560	18	18	14	8	-0.01	-0.006	0.001	0	0.103	0.078	0.046	Light	Light	Moderate
A	SLZ2	503	1150	25	324.5	0.572	-0.013	0.003	0.581	18	18	13	7					0.103	0.078	0.042	Light	Light	Light
E	SLZ2	503	1150	25	324.5	0.558	-0.017	0.008	0.568	18	18	14	8	-0.014	-0.004	0.005	0	0.102	0.080	0.043	Light	Light	Light
A	SLZ2	511	0	50	324.5	0.596	-0.013	0.005	0.604	17	17	14	8					0.105	0.082	0.046	Light	Light	Moderate
E	SLZ2	511	0	50	324.5	0.596	-0.016	0.004	0.604	18	18	12	7	0	-0.003	-0.001	1	0.107	0.075	0.045	Light	Light	Moderate
A	SLZ2	512	575	50	324.5	0.6	-0.015	0	0.608	17	17	13	8					0.105	0.078	0.048	Light	Light	Moderate
E	SLZ2	512	575	50	324.5	0.611	-0.014	0.001	0.619	18	18	13	8	0.011	0.001	0.001	1	0.112	0.082	0.047	Light	Light	Moderate
A	SLZ2	513	1150	50	324.5	0.6	-0.011	0.008	0.608	17	17	14	7					0.105	0.083	0.045	Light	Light	Moderate
E	SLZ2	513	1150	50	324.5	0.6	-0.012	0.009	0.608	18	18	14	7	0	-0.001	0.001	1	0.108	0.083	0.045	Light	Light	Moderate
A	SLZ2	521	0	100	324.5	0.646	-0.013	0.004	0.652	17	17	13	8					0.111	0.085	0.050	Light	Light	Moderate
E	SLZ2	521	0	100	324.5	0.638	-0.018	0.004	0.644	16	16	12	8	-0.008	-0.005	0	-1	0.106	0.076	0.052	Light	Light	Moderate
A	SLZ2	522	575	100	324.5	0.631	-0.013	0.006	0.638	18	18	12	8					0.112	0.078	0.052	Light	Light	Moderate
E	SLZ2	522	575	100	324.5	0.652	-0.012	0.003	0.658	17	17	13	8	0.021	0.001	-0.003	-1	0.113	0.083	0.050	Light	Light	Moderate
A	SLZ2	523	1150	100	324.5	0.657	-0.013	0.006	0.663	16	16	12	8					0.103	0.083	0.052	Light	Light	Moderate
E	SLZ2	523	1150	100	324.5	0.646	-0.018	0.008	0.653	16	16	13	8	-0.011	-0.005	0.002	0	0.104	0.082	0.052	Light	Light	Moderate
A	SLZ2	531	0	150	324.5	0.686	-0.017	0.005	0.691	16	16	12	8					0.110	0.086	0.056	Light	Light	Moderate
E	SLZ2	531	0	150	324.5	0.67	-0.013	0.003	0.675	17	17	12	8	-0.016	0.004	-0.002	1	0.114	0.081	0.056	Light	Light	Moderate
A	SLZ2	532	575	150	324.5	0.687	-0.012	0.003	0.691	15	15	12	8					0.106	0.084	0.056	Light	Light	Moderate
E	SLZ2	532	575	150	324.5	0.68	-0.019	0.002	0.685	16	16	13	8	-0.007	-0.007	-0.001	1	0.112	0.087	0.056	Light	Light	Moderate
A	SLZ2	533	1150	150	324.5	0.676	-0.011	0.008	0.681	16	16	12	8					0.108	0.084	0.057	Light	Light	Moderate
E	SLZ2	533	1150	150	324.5	0.662	-0.012	0.007	0.668	17	17	13	8	-0.014	-0.001	-0.001	1	0.115	0.084	0.054	Light	Light	Moderate
A	SLZ2	541	0	250	324.5	0.705	-0.012	0.003	0.709	16	16	12	8					0.111	0.084	0.060	Light	Light	Moderate
E	SLZ2	541	0	250	324.5	0.722	-0.013	-0.003	0.725	15	15	12	8	0.017	-0.001	-0.006	-1	0.111	0.086	0.062	Light	Light	Moderate
A	SLZ2	542	575	250	324.5	0.719	-0.009	-0.001	0.723	15	15	12	8					0.111	0.088	0.061	Light	Light	Moderate
E	SLZ2	542	575	250	324.5	0.716	-0.015	0.002	0.720	16	16	12	8	-0.003	-0.006	0.003	1	0.112	0.089	0.059	Light	Light	Moderate
A	SLZ2	543	1150	250	324.5	0.713	-0.017	0.002	0.717	15	15	11	8					0.108	0.080	0.060	Light	Light	Moderate
E	SLZ2	543	1150	250	324.5	0.711	-0.011	0.004	0.715	16	16	12	8	-0.002	0.006	0.002	1	0.113	0.089	0.060	Light	Light	Moderate
A	Runway	101	0	25	347	0.545	-0.012	0.003	0.557	19	19	15	8					0.105	0.086	0.046	Light	Light	Moderate
E	Runway	101	0	25	347	0.551	-0.009	0.003	0.563	19	20	15	8	0.006	0.003	0	0	0.110	0.085	0.045	Light	Light	Moderate
A	Runway	102	695	25	347	0.533	-0.008	0.011	0.545	19	20	16	8					0.107	0.085	0.044	Light	Light	Moderate
E	Runway	102	695	25	347	0.556	-0.016	0.011	0.566	18	18	14	7	0.023	-0.008	0	-1	0.104	0.080	0.041	Light	Light	Light
A	Runway	103	1389	25	347	0.543	-0.014	0.002	0.554	18	18	15	8					0.102	0.081	0.045	Light	Light	Moderate
E	Runway	103	1389	25	347	0.534	-0.003	0	0.543	19	19	13	7	-0.009	0.011	-0.002	1	0.101	0.070	0.039	Light	Light	Light
A	Runway	104	2064	25	347	0.536	-0.007	0	0.547	18	19	15	8					0.101	0.080	0.045	Light	Light	Moderate
E	Runway	104	2064	25	347	0.523	-0.013	0.001	0.534	18	18	14	8	-0.013	-0.006	0.001	0	0.098	0.076	0.041	Light	Light	Light
A	Runway	105	2739	25	347	0.562	-0.018	0.002	0.572	17	17	13	7					0.100	0.077	0.042	Light	Light	Light
E	Runway	105	2739	25	347	0.55	-0.017	0.006	0.559	18	18	14	7	-0.012	0.001	0.004	1	0.099	0.078	0.040	Light	Light	Light
A	Runway	106	3300	25	347	0.576	0.006	-0.002	0.584	17	17	14	7					0.098	0.080	0.042	Light	Light	Light
E	Runway	106	3300	25	347	0.555	-0.001	0.001	0.564	18	18	14	7	-0.021	-0.007	0.003	1	0.100	0.080	0.041	Light	Light	Light
A	Runway	107	3875	25	347	0.565	-0.014	0.002	0.574	17	17	13	7					0.098	0.075	0.043	Light	Light	Light
E	Runway	107	3875	25	347	0.564	-0.018	0.002	0.573	18	18	13	7	-0.001	-0.004	0	1	0.102	0.076	0.039	Light	Light	Light
A	Runway	108	4450	25	347	0.556	-0.009	-0.002	0.566	19	19	13	7					0.107	0.075	0.042	Light	Light	Light
E	Runway	108	4450	25	347	0.563	-0.011	0	0.571	18	18	13	7	0.007	-0.002	0.002	-1	0.102	0.074	0.041	Light	Light	Light
A	Runway	111	0	50	347	0.599	-0.006	0.008	0.608	19	19	14	8					0.113	0.086	0.047	Light	Light	Moderate
E	Runway	111	0	50	347	0.594	-0.006	0.01	0.603	18	18	15	8	-0.005	0	0.002	-1	0.109	0.088	0.048	Light	Light	Moderate
A	Runway	112	695	50	347	0.596	-0.01	0.013	0.605	18	18	15	7					0.110	0.090	0.045	Light	Light	Moderate
E	Runway	112	695	50	347	0.6	-0.02	0.013	0.608	17	17	14	7	0.004	-0.01	0	-1	0.106	0.084	0.042	Light	Light	Light
A	Runway	113	1389	50	347	0.594	-0.017	0.007	0.603	17	17	14	8					0.105	0.083	0.047	Light	Light	Moderate
E	Runway	113	1389	50	347	0.593	-0.004	0.006	0.600	18	18	13	7	-0.001	0.013	-0.001	1	0.108	0.076	0.041	Light	Light	Light
A	Runway	114	2064	50	347	0.591	-0.012	0.008	0.600	18	18	14	7					0.107	0.082	0.044	Light	Light	Moderate
E	Runway	114	2064	50	347	0.588	-0.011	0.008	0.596	17	17	13	7	-0.003	0.001	0	-1	0.102	0.078	0.041	Light	Light	Light

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	Runway	115	2739	50	347	0.597	-0.011	0.006	0.604	18	18	13	7					0.108	0.076	0.045	Light	Light	Moderate
E	Runway	115	2739	50	347	0.59	-0.013	0.009	0.597	17	17	13	7	-0.007	-0.002	0.003	-1	0.104	0.076	0.041	Light	Light	Light
A	Runway	116	3300	50	347	0.613	0.001	0.008	0.620	16	16	13	7					0.102	0.083	0.042	Light	Light	Light
E	Runway	116	3300	50	347	0.596	0.005	0.011	0.604	17	17	14	7	-0.017	0.004	0.003	1	0.103	0.084	0.042	Light	Light	Light
A	Runway	117	3875	50	347	0.611	-0.015	0.009	0.618	17	17	13	7					0.108	0.079	0.044	Light	Light	Moderate
E	Runway	117	3875	50	347	0.61	-0.019	0.01	0.617	18	18	13	7	-0.001	-0.004	0.001	1	0.108	0.079	0.042	Light	Light	Light
A	Runway	118	4450	50	347	0.608	-0.012	0.005	0.615	17	17	13	7					0.107	0.079	0.045	Light	Light	Moderate
E	Runway	118	4450	50	347	0.609	-0.017	0.008	0.616	18	18	13	7	0.001	-0.005	0.003	1	0.109	0.082	0.043	Light	Light	Light
A	Runway	121	0	100	347	0.637	-0.012	0.01	0.645	17	17	14	8					0.113	0.090	0.051	Light	Light	Moderate
E	Runway	121	0	100	347	0.622	0	0.013	0.631	18	18	14	8	-0.015	0.012	0.003	1	0.114	0.090	0.052	Light	Light	Moderate
A	Runway	122	695	100	347	0.637	-0.009	0.015	0.644	17	17	13	8					0.110	0.086	0.051	Light	Light	Moderate
E	Runway	122	695	100	347	0.636	-0.011	0.015	0.644	17	17	13	8	-0.001	-0.002	0	0	0.112	0.086	0.051	Light	Light	Moderate
A	Runway	123	1389	100	347	0.633	-0.017	0.01	0.641	18	18	14	8					0.114	0.089	0.050	Light	Light	Moderate
E	Runway	123	1389	100	347	0.644	-0.004	0.007	0.650	16	16	12	7	0.011	0.013	-0.003	-2	0.105	0.080	0.047	Light	Light	Moderate
A	Runway	124	2064	100	347	0.639	-0.012	0.011	0.647	17	17	14	8					0.111	0.088	0.051	Light	Light	Moderate
E	Runway	124	2064	100	347	0.644	-0.016	0.009	0.651	17	17	13	7	0.005	-0.004	-0.002	0	0.112	0.085	0.048	Light	Light	Moderate
A	Runway	125	2739	100	347	0.65	-0.015	0.008	0.657	16	16	13	8					0.107	0.088	0.051	Light	Light	Moderate
E	Runway	125	2739	100	347	0.633	-0.014	0.011	0.639	17	17	12	7	-0.017	0.001	0.003	1	0.107	0.080	0.048	Light	Light	Moderate
A	Runway	126	3300	100	347	0.636	-0.001	0.009	0.642	16	16	13	8					0.105	0.082	0.050	Light	Light	Moderate
E	Runway	126	3300	100	347	0.638	-0.002	0.011	0.643	17	17	12	8	0.002	-0.001	0.002	1	0.108	0.078	0.049	Light	Light	Moderate
A	Runway	127	3875	100	347	0.668	-0.014	0.005	0.673	16	16	12	7					0.110	0.081	0.049	Light	Light	Moderate
E	Runway	127	3875	100	347	0.652	-0.017	0.009	0.658	16	16	13	7	-0.016	-0.003	0.004	0	0.103	0.083	0.049	Light	Light	Moderate
A	Runway	128	4450	100	347	0.652	-0.013	0.007	0.657	16	16	12	7					0.107	0.079	0.049	Light	Light	Moderate
E	Runway	128	4450	100	347	0.651	-0.017	0.009	0.656	17	17	12	7	-0.001	-0.004	0.002	1	0.109	0.078	0.048	Light	Light	Moderate
A	Runway	131	0	150	347	0.661	-0.012	0.008	0.668	18	18	13	9					0.119	0.084	0.058	Light	Light	Moderate
E	Runway	131	0	150	347	0.662	-0.011	0.012	0.669	18	18	14	9	0.001	0.001	0.004	0	0.118	0.092	0.058	Light	Light	Moderate
A	Runway	132	695	150	347	0.668	-0.012	0.013	0.674	17	17	14	8					0.112	0.091	0.054	Light	Light	Moderate
E	Runway	132	695	150	347	0.665	-0.017	0.013	0.671	17	17	13	8	-0.003	-0.005	0	0	0.115	0.085	0.055	Light	Light	Moderate
A	Runway	133	1389	150	347	0.677	-0.012	0.005	0.682	16	16	12	8					0.106	0.083	0.055	Light	Light	Moderate
E	Runway	133	1389	150	347	0.669	-0.006	0.011	0.674	16	16	13	8	-0.008	0.006	0.006	0	0.106	0.086	0.054	Light	Light	Moderate
A	Runway	134	2064	150	347	0.66	-0.016	0.012	0.667	17	17	13	8					0.115	0.087	0.056	Light	Light	Moderate
E	Runway	134	2064	150	347	0.669	-0.016	0.011	0.675	17	17	12	8	0.009	0	-0.001	0	0.116	0.084	0.052	Light	Light	Moderate
A	Runway	135	2739	150	347	0.666	-0.013	0.011	0.672	16	16	13	8					0.106	0.087	0.052	Light	Light	Moderate
E	Runway	135	2739	150	347	0.658	-0.011	0.01	0.663	16	17	12	8	-0.008	0.002	-0.001	0	0.110	0.078	0.056	Light	Light	Moderate
A	Runway	136	3300	150	347	0.663	-0.006	0.007	0.668	15	15	12	8					0.103	0.083	0.054	Light	Light	Moderate
E	Runway	136	3300	150	347	0.683	-0.008	0.008	0.687	15	15	12	8	0.02	-0.002	0.001	0	0.106	0.083	0.053	Light	Light	Moderate
A	Runway	137	3875	150	347	0.678	-0.02	0.007	0.683	16	16	12	8					0.108	0.085	0.052	Light	Light	Moderate
E	Runway	137	3875	150	347	0.683	-0.019	0.008	0.687	16	16	12	8	0.005	0.001	0.001	0	0.110	0.080	0.054	Light	Light	Moderate
A	Runway	138	4450	150	347	0.686	-0.008	0.007	0.690	16	16	11	8					0.112	0.079	0.052	Light	Light	Moderate
E	Runway	138	4450	150	347	0.683	-0.01	0.009	0.687	15	15	12	8	-0.003	-0.002	0.002	-1	0.104	0.079	0.052	Light	Light	Moderate
A	Runway	141	0	250	347	0.687	-0.01	0.009	0.693	17	17	13	9					0.120	0.091	0.062	Light	Light	Moderate
E	Runway	141	0	250	347	0.689	-0.016	0.013	0.695	16	16	12	9	0.002	-0.006	0.004	-1	0.111	0.086	0.062	Light	Light	Moderate
A	Runway	142	695	250	347	0.71	-0.014	0.007	0.715	16	16	13	9					0.112	0.090	0.062	Light	Light	Moderate
E	Runway	142	695	250	347	0.712	-0.013	0.009	0.717	16	16	13	9	0.002	0.001	0.002	0	0.112	0.090	0.062	Light	Light	Moderate
A	Runway	143	1389	250	347	0.708	-0.015	0.008	0.713	16	16	12	9					0.111	0.087	0.062	Light	Light	Moderate
E	Runway	143	1389	250	347	0.706	-0.008	0.006	0.711	16	16	13	8	-0.002	0.007	-0.002	0	0.115	0.090	0.060	Light	Light	Moderate
A	Runway	144	2064	250	347	0.706	-0.018	0.005	0.711	15	15	12	9					0.109	0.087	0.061	Light	Light	Moderate
E	Runway	144	2064	250	347	0.693	-0.013	0.006	0.697	16	16	12	9	-0.013	0.005	0.001	1	0.113	0.080	0.060	Light	Light	Moderate
A	Runway	145	2739	250	347	0.712	-0.014	0.004	0.715	15	15	12	8					0.109	0.083	0.060	Light	Light	Moderate
E	Runway	145	2739	250	347	0.702	-0.012	0.006	0.705	15	15	11	8	-0.01	0.002	0.002	0	0.107	0.078	0.060	Light	Light	Moderate
A	Runway	146	3300	250	347	0.709	-0.004	0.003	0.712	15	15	11	8					0.104	0.078	0.060	Light	Light	Moderate
E	Runway	146	3300	250	347	0.708	-0.007	0.01	0.712	16	16	12	8	-0.001	-0.003	0.007	1	0.112	0.083	0.058	Light	Light	Moderate
A	Runway	147	3875	250	347	0.716	-0.012	0.004	0.719	15	15	12	8					0.110	0.087	0.059	Light	Light	Moderate
E	Runway	147	3875	250	347	0.724	-0.019	0.006	0.728	15	15	12	8	0.008	-0.007	0.002	0	0.107	0.090	0.061	Light	Light	Moderate
A	Runway	148	4450	250	347	0.722	-0.015	0.005	0.725	14	14	12	8					0.103	0.086	0.059	Light	Light	Moderate
E	Runway	148	4450	250	347	0.709	-0.015	0.008	0.712	15	15	11	8	-0.013	0	0.003	1	0.108	0.079	0.058	Light	Light	Moderate

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Table B4: Perris Valley Airport Wind Tunnel Velocity Measurement Data Sorted by Wind Direction: Configurations A & E

Configuration	Landing Zone	Point ID	Downrange Distance (ft)	Height Above 1424' MSL (ft)	Wind Direction (deg)	Mean				TI				Difference				Sigma			Turbulence Classification		
						U/Uref	V/Uref	W/Uref	[UVW]/Uref	UVW	U	V	W	Mean U/Uref	Mean V/Uref	Mean W/Uref	TI UVW (% [UVW])	U/Uref	V/Uref	W/Uref	U	V	W
						(% [UVW])				(% [UVW])				(% [UVW])									
A	HPLZ1	201	0	25	347	0.551	-0.014	0.004	0.562	19	20	15	8					0.111	0.083	0.044	Light	Light	Moderate
E	HPLZ1	201	0	25	347	0.517	-0.003	0.002	0.530	20	20	16	8	-0.034	0.011	-0.002	1	0.104	0.085	0.044	Light	Light	Moderate
A	HPLZ1	202	675	25	347	0.546	-0.01	0.005	0.556	18	18	14	8					0.100	0.080	0.043	Light	Light	Light
E	HPLZ1	202	675	25	347	0.529	-0.008	0.007	0.541	18	18	15	8	-0.017	0.002	0.002	0	0.100	0.080	0.041	Light	Light	Light
A	HPLZ1	203	1350	25	347	0.522	-0.002	0.004	0.533	18	18	15	8					0.097	0.078	0.044	Light	Light	Moderate
E	HPLZ1	203	1350	25	347	0.525	-0.009	0.005	0.536	18	18	15	8	0.003	-0.007	0.001	0	0.098	0.081	0.041	Light	Light	Light
A	HPLZ1	211	0	50	347	0.593	-0.018	0.007	0.602	17	17	13	7					0.104	0.081	0.045	Light	Light	Moderate
E	HPLZ1	211	0	50	347	0.575	-0.001	0	0.583	19	19	13	8	-0.018	0.017	-0.007	2	0.110	0.075	0.046	Light	Light	Moderate
A	HPLZ1	212	675	50	347	0.592	-0.008	0.01	0.601	17	17	14	8					0.100	0.085	0.046	Light	Light	Moderate
E	HPLZ1	212	675	50	347	0.586	-0.017	0.01	0.595	18	17	14	7	-0.006	-0.009	0	1	0.104	0.085	0.043	Light	Light	Light
A	HPLZ1	213	1350	50	347	0.583	-0.011	0.015	0.593	17	18	15	8					0.104	0.087	0.045	Light	Light	Moderate
E	HPLZ1	213	1350	50	347	0.582	-0.015	0.013	0.591	18	18	14	7	-0.001	-0.004	-0.002	1	0.107	0.081	0.041	Light	Light	Light
A	HPLZ1	221	0	100	347	0.651	-0.01	0.006	0.658	17	17	13	8					0.109	0.087	0.052	Light	Light	Moderate
E	HPLZ1	221	0	100	347	0.621	0.003	0.005	0.628	18	18	13	8	-0.03	0.013	-0.001	1	0.111	0.080	0.049	Light	Light	Moderate
A	HPLZ1	222	675	100	347	0.644	-0.015	0.008	0.651	16	16	14	7					0.105	0.089	0.049	Light	Light	Moderate
E	HPLZ1	222	675	100	347	0.633	-0.007	0.012	0.639	18	18	13	8	-0.011	0.008	0.004	2	0.114	0.082	0.049	Light	Light	Moderate
A	HPLZ1	223	1350	100	347	0.642	-0.009	0.014	0.649	17	17	13	7					0.108	0.087	0.048	Light	Light	Moderate
E	HPLZ1	223	1350	100	347	0.657	-0.008	0.014	0.663	17	17	14	7	0.015	0.001	0	0	0.111	0.091	0.047	Light	Light	Moderate
A	HPLZ1	231	0	150	347	0.673	-0.01	0.007	0.678	17	17	12	8					0.114	0.084	0.054	Light	Light	Moderate
E	HPLZ1	231	0	150	347	0.678	0.006	0	0.682	18	18	12	8	0.005	0.016	-0.007	1	0.122	0.081	0.055	Light	Light	Moderate
A	HPLZ1	232	675	150	347	0.673	-0.017	0.01	0.680	17	17	14	8					0.112	0.095	0.057	Light	Light	Moderate
E	HPLZ1	232	675	150	347	0.666	-0.003	0.01	0.671	17	17	12	8	-0.007	0.014	0	0	0.112	0.081	0.054	Light	Light	Moderate
A	HPLZ1	233	1350	150	347	0.675	-0.014	0.015	0.681	16	16	13	8					0.109	0.086	0.053	Light	Light	Moderate
E	HPLZ1	233	1350	150	347	0.665	-0.009	0.014	0.670	16	16	12	8	-0.01	0.005	-0.001	0	0.109	0.081	0.052	Light	Light	Moderate
A	HPLZ1	241	0	250	347	0.698	-0.01	0.007	0.703	16	16	12	9					0.115	0.085	0.062	Light	Light	Moderate
E	HPLZ1	241	0	250	347	0.709	-0.007	-0.003	0.713	16	16	12	9	0.011	0.003	-0.01	0	0.114	0.085	0.061	Light	Light	Moderate
A	HPLZ1	242	675	250	347	0.701	-0.021	0.008	0.706	16	16	13	9					0.111	0.091	0.061	Light	Light	Moderate
E	HPLZ1	242	675	250	347	0.709	-0.007	0.006	0.713	17	17	12	8	0.008	0.014	-0.002	1	0.120	0.086	0.060	Light	Light	Moderate
A	HPLZ1	243	1350	250	347	0.708	-0.011	0.009	0.712	14	14	12	8					0.102	0.085	0.060	Light	Light	Moderate
E	HPLZ1	243	1350	250	347	0.719	-0.013	0.011	0.723	15	15	12	8	0.011	-0.002	0.002	1	0.105	0.086	0.060	Light	Light	Moderate
A	HPLZ2	301	0	25	347	0.539	-0.009	0.009	0.550	19	19	15	8					0.104	0.082	0.047	Light	Light	Moderate
E	HPLZ2	301	0	25	347	0.512	0.031	-0.061	0.526	18	18	11	9	-0.027	0.04	-0.07	-1	0.097	0.060	0.045	Light	Light	Moderate
A	HPLZ2	302	675	25	347	0.548	-0.016	0.008	0.559	17	17	15	8					0.096	0.084	0.043	Light	Light	Light
E	HPLZ2	302	675	25	347	0.552	0.003	0.001	0.561	18	18	12	7	0.004	0.019	-0.007	1	0.102	0.066	0.042	Light	Light	Light
A	HPLZ2	303	1350	25	347	0.558	-0.002	-0.003	0.568	18	18	14	8					0.105	0.078	0.044	Light	Light	Moderate
E	HPLZ2	303	1350	25	347	0.567	-0.007	-0.004	0.574	17	17	12	7	0.009	-0.005	-0.001	-1	0.100	0.067	0.040	Light	Light	Light
A	HPLZ2	311	0	50	347	0.577	-0.005	0.011	0.587	20	20	15	8					0.116	0.087	0.047	Light	Light	Moderate
E	HPLZ2	311	0	50	347	0.593	0.017	-0.047	0.603	17	17	13	7	0.016	0.022	-0.058	-3	0.103	0.079	0.044	Light	Light	Moderate
A	HPLZ2	312	675	50	347	0.594	-0.012	0.012	0.602	17	17	13	8					0.105	0.077	0.045	Light	Light	Moderate
E	HPLZ2	312	675	50	347	0.612	0.001	0.004	0.618	17	17	12	7	0.018	0.013	-0.008	0	0.108	0.075	0.043	Light	Light	Light
A	HPLZ2	313	1350	50	347	0.612	-0.003	0.004	0.620	17	17	14	7					0.107	0.086	0.045	Light	Light	Moderate
E	HPLZ2	313	1350	50	347	0.615	-0.002	0.004	0.622	15	16	13	7	0.003	0.001	0	-2	0.097	0.081	0.043	Light	Light	Light
A	HPLZ2	321	0	100	347	0.637	-0.004	0.011	0.644	18	19	14	8					0.119	0.088	0.052	Light	Light	Moderate
E	HPLZ2	321	0	100	347	0.644	0.002	-0.03	0.650	17	16	12	8	0.007	0.006	-0.041	-1	0.107	0.079	0.049	Light	Light	Moderate
A	HPLZ2	322	675	100	347	0.645	-0.006	0.009	0.651	17	17	13	8					0.114	0.085	0.052	Light	Light	Moderate
E	HPLZ2	322	675	100	347	0.65	-0.002	0.004	0.655	17	17	13	7	0.005	0.004	-0.005	0	0.109	0.082	0.048	Light	Light	Moderate
A	HPLZ2	323	1350	100	347	0.65	-0.006	0.007	0.657	15	15	13	8					0.102	0.084	0.053	Light	Light	Moderate
E	HPLZ2	323	1350	100	347	0.665	-0.006	0.004	0.671	17	17	13	7	0.015	0	-0.003	2	0.112	0.084	0.048	Light	Light	Moderate
A	HPLZ2	331	0	150	347	0.666	-0.008	0.009	0.672	17	17	13	8					0.112	0.084	0.056	Light	Light	Moderate
E	HPLZ2	331	0	150	347	0.662	-0.002	-0.022	0.668	17	17	12	8	-0.004	0.006	-0.031	0	0.112	0.081	0.053	Light	Light	Moderate
A	HPLZ2	332	675	150	347	0.662	-0.011	0.014	0.668	17	17	14	8					0.113	0.090	0.054	Light	Light	Moderate
E	HPLZ2	332	675	150	347	0.657	-0.007	0.005	0.662	17	17	12	8	-0.005	0.004	-0.009	0	0.112	0.082	0.052	Light	Light	Moderate
A	HPLZ2	333	1350	150	347	0.676	-0.008	0.006	0.681	16	16	12	8					0.108	0.083	0.058	Light	Light	Moderate
E	HPLZ2	333	1350	150	347	0.681	-0.011	0.004	0.686	16	16	12	8	0.005	-0.003	-0.002	0	0.112	0.082	0.054	Light	Light	Moderate
A	HPLZ2	341	0	250	347	0.713	-0.008	0.005	0.717	16	16	12	9					0.113	0.087	0.061	Light	Light	Moderate
E	HPLZ2	341	0	250	347	0.703	-0.011	-0.011	0.708	16	16	13	8	-0.01	-0.003	-0.016	0	0.114	0.090	0.060	Light	Light	Moderate

APPENDIX C – WIND TUNNEL VELOCITY MEASUREMENT SUPPLEMENTAL GRAPHICAL RESULTS

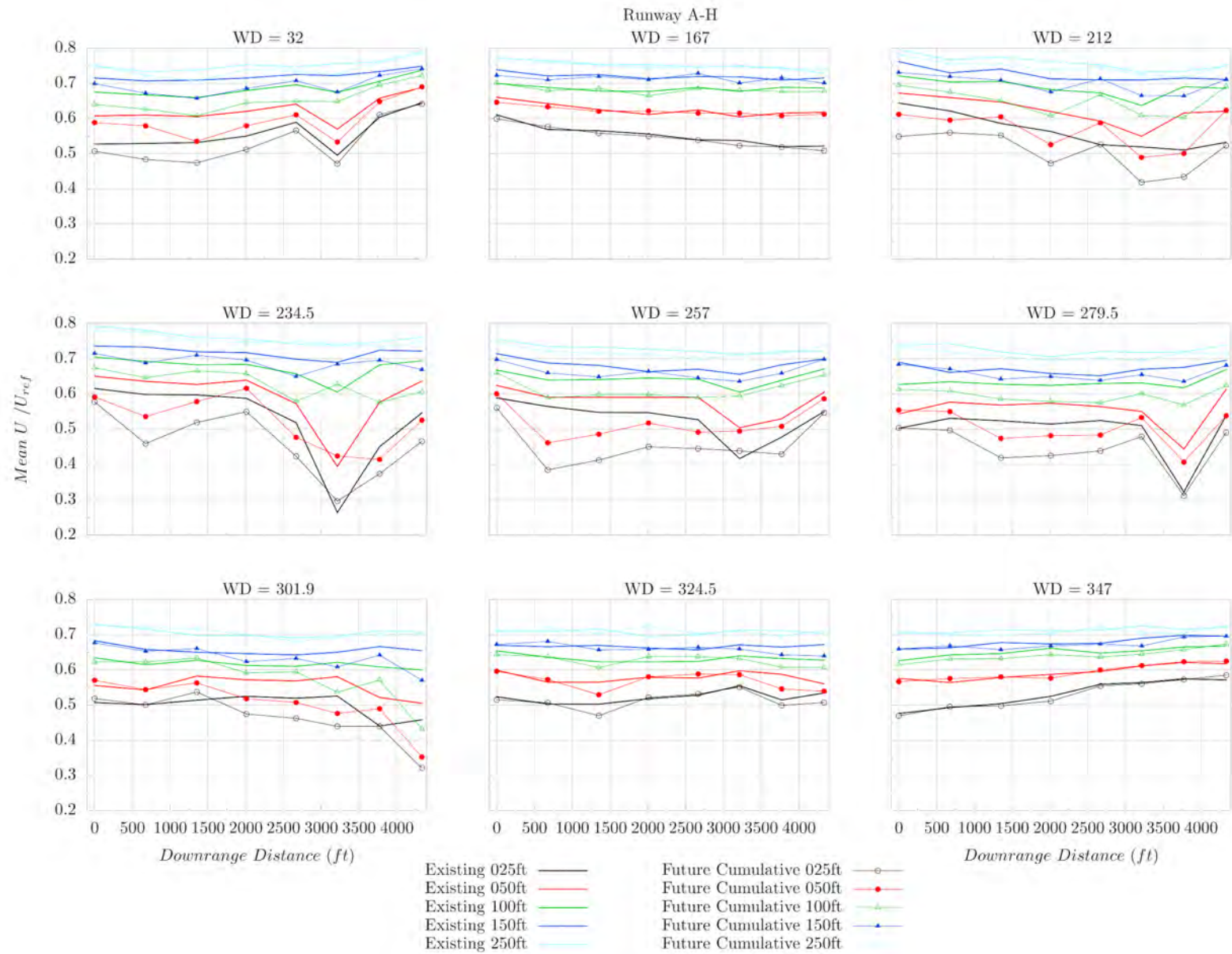


Figure C1: Existing and Future Cumulative Configurations: Runway (Points A-H): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

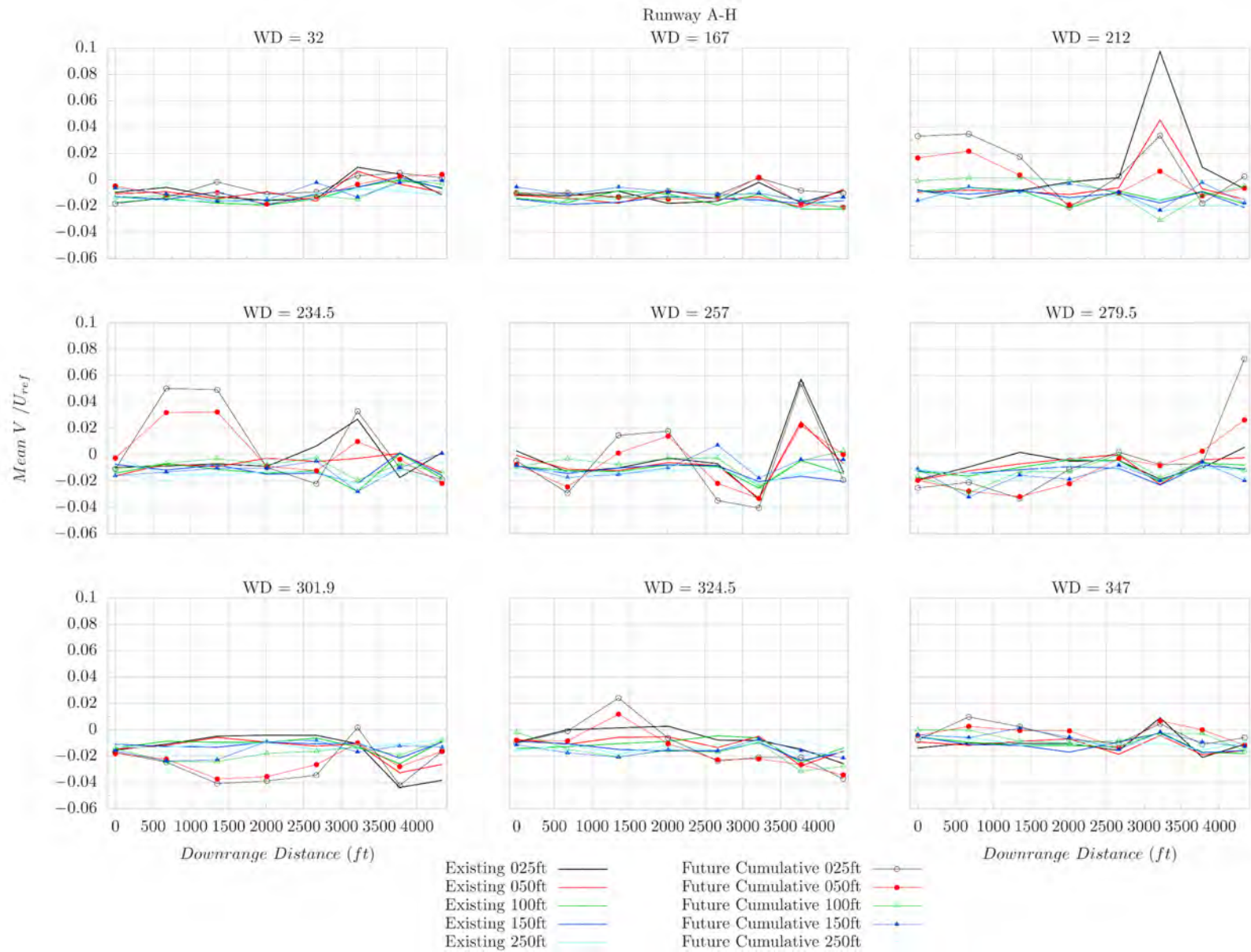


Figure C2: Existing and Future Cumulative Configurations: Runway (Points A-H): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

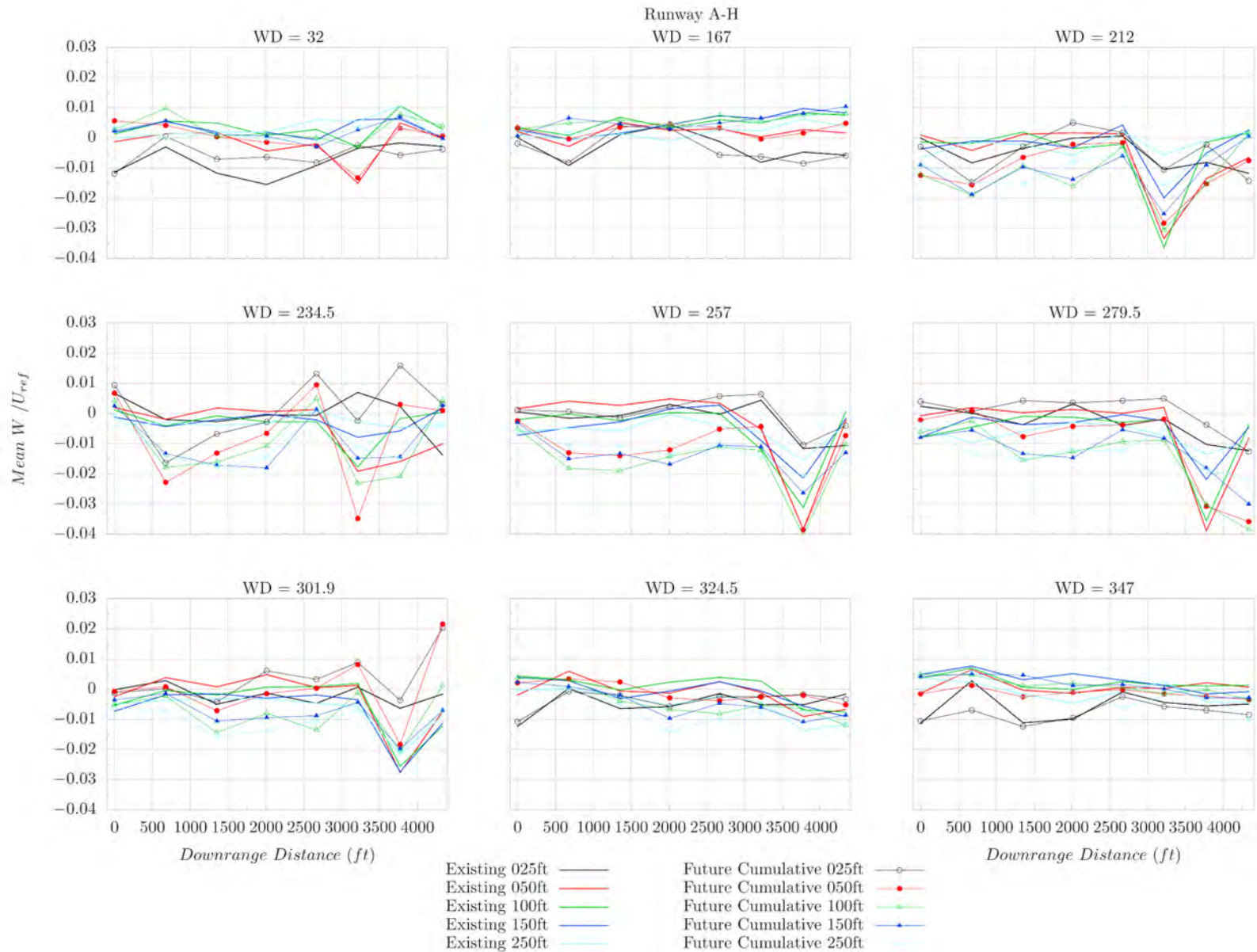


Figure C3: Existing and Future Cumulative Configurations: Runway (Points A-H): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

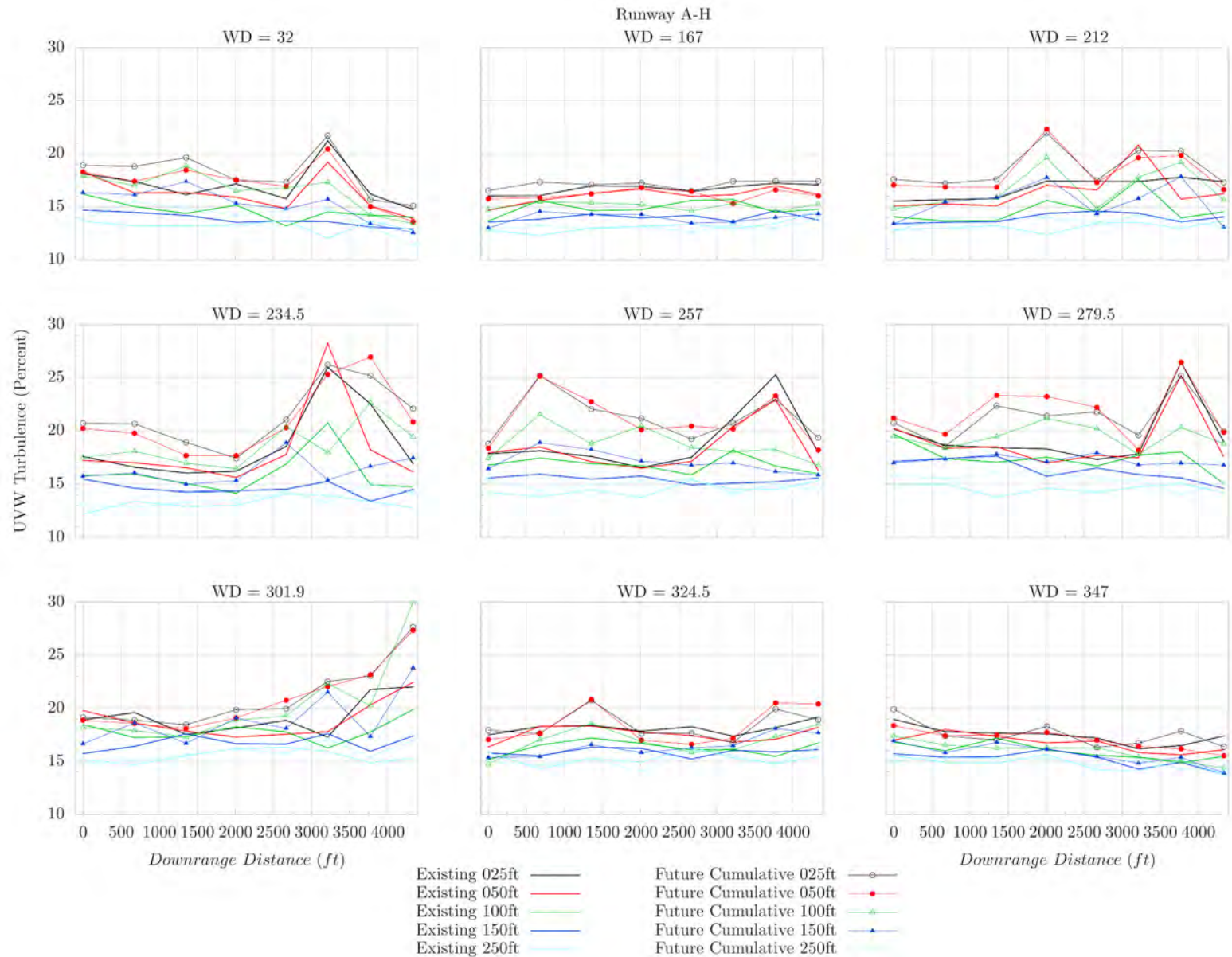


Figure C4: Existing and Future Cumulative Configurations: Runway (Points A-H): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|U_{VW}|$).

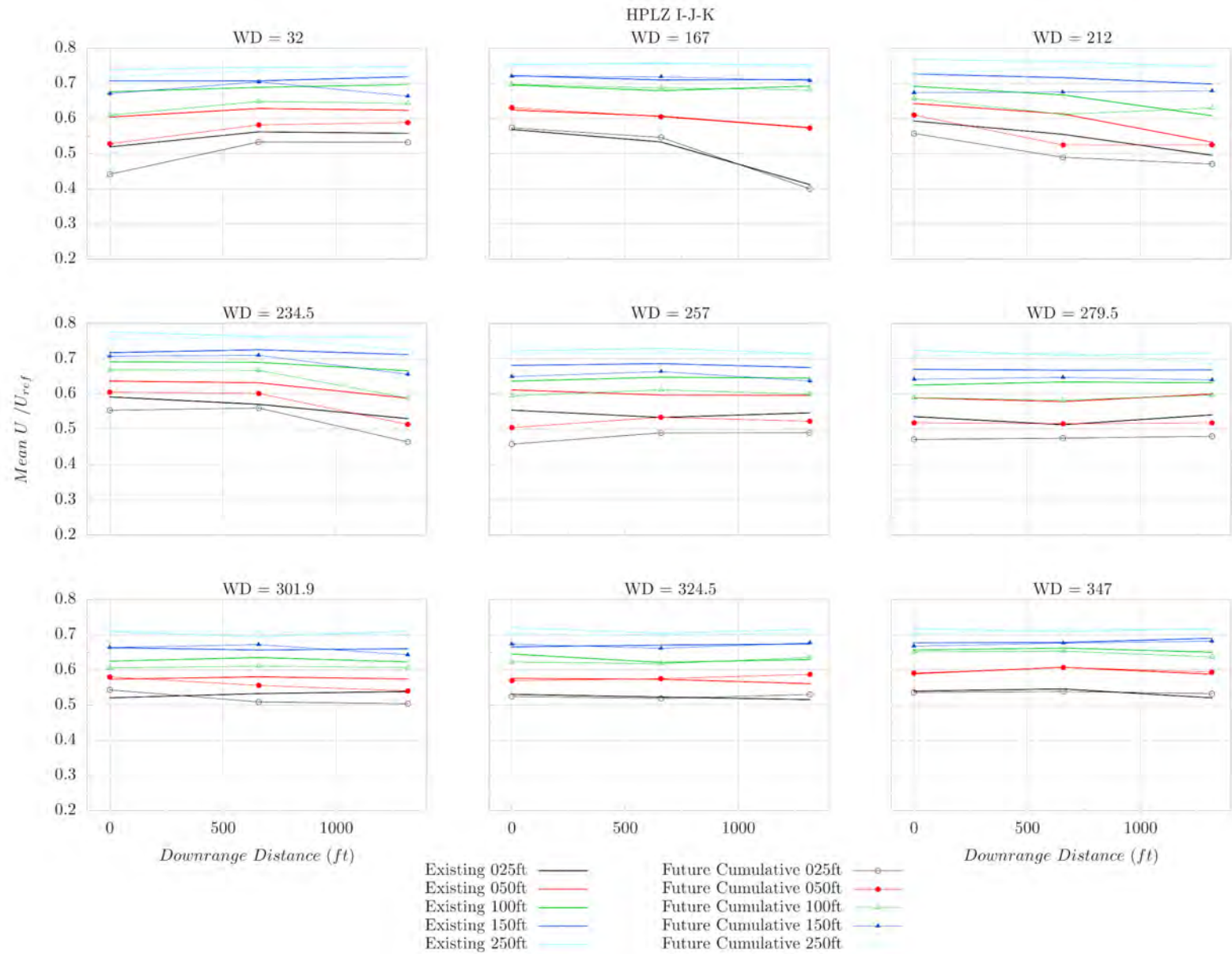


Figure C5: Existing and Future Cumulative Configurations: High-performance landing zone lane 1 (Points I-K): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

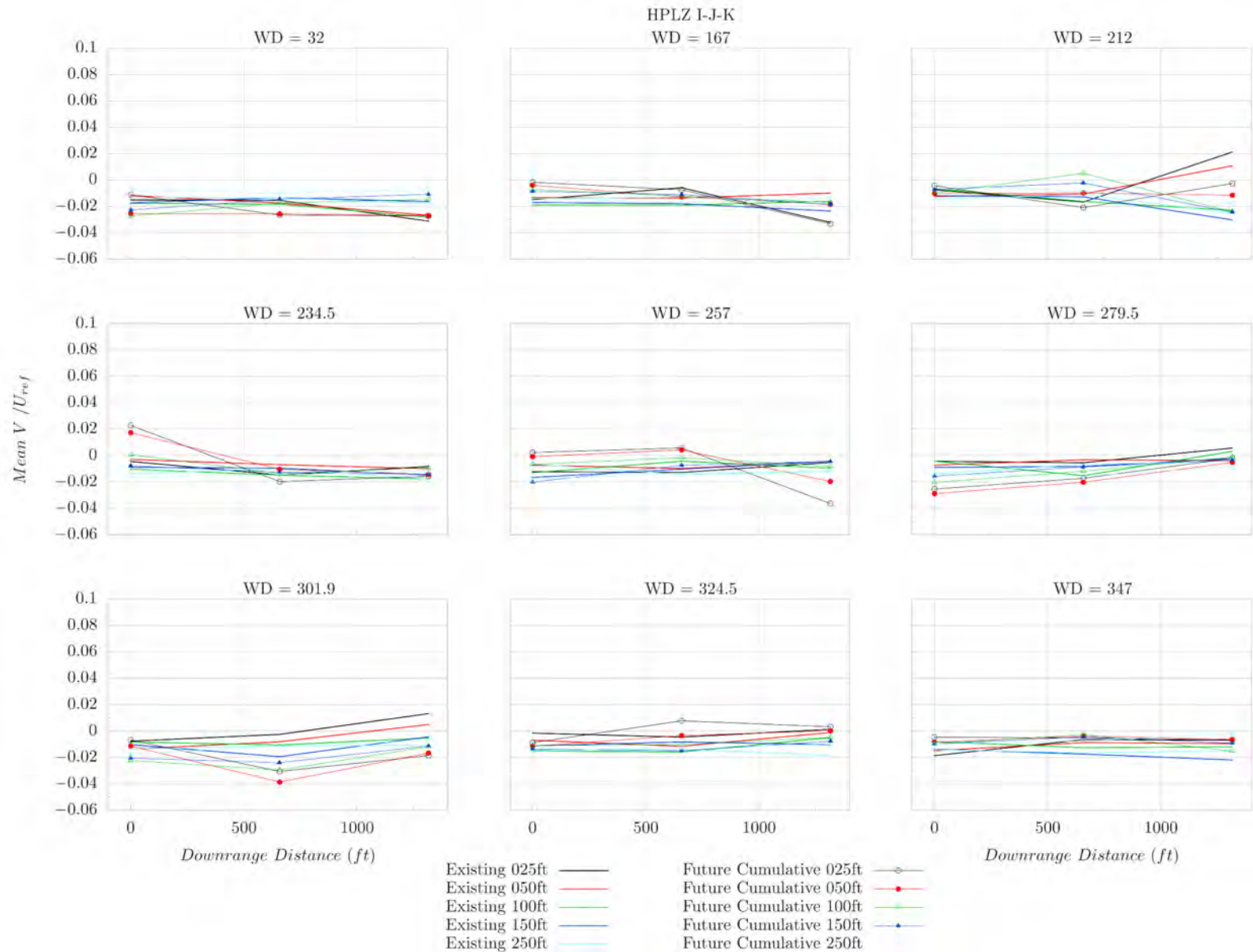


Figure C6: Existing and Future Cumulative Configurations: High-performance landing zone lane 1 (Points I-K): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

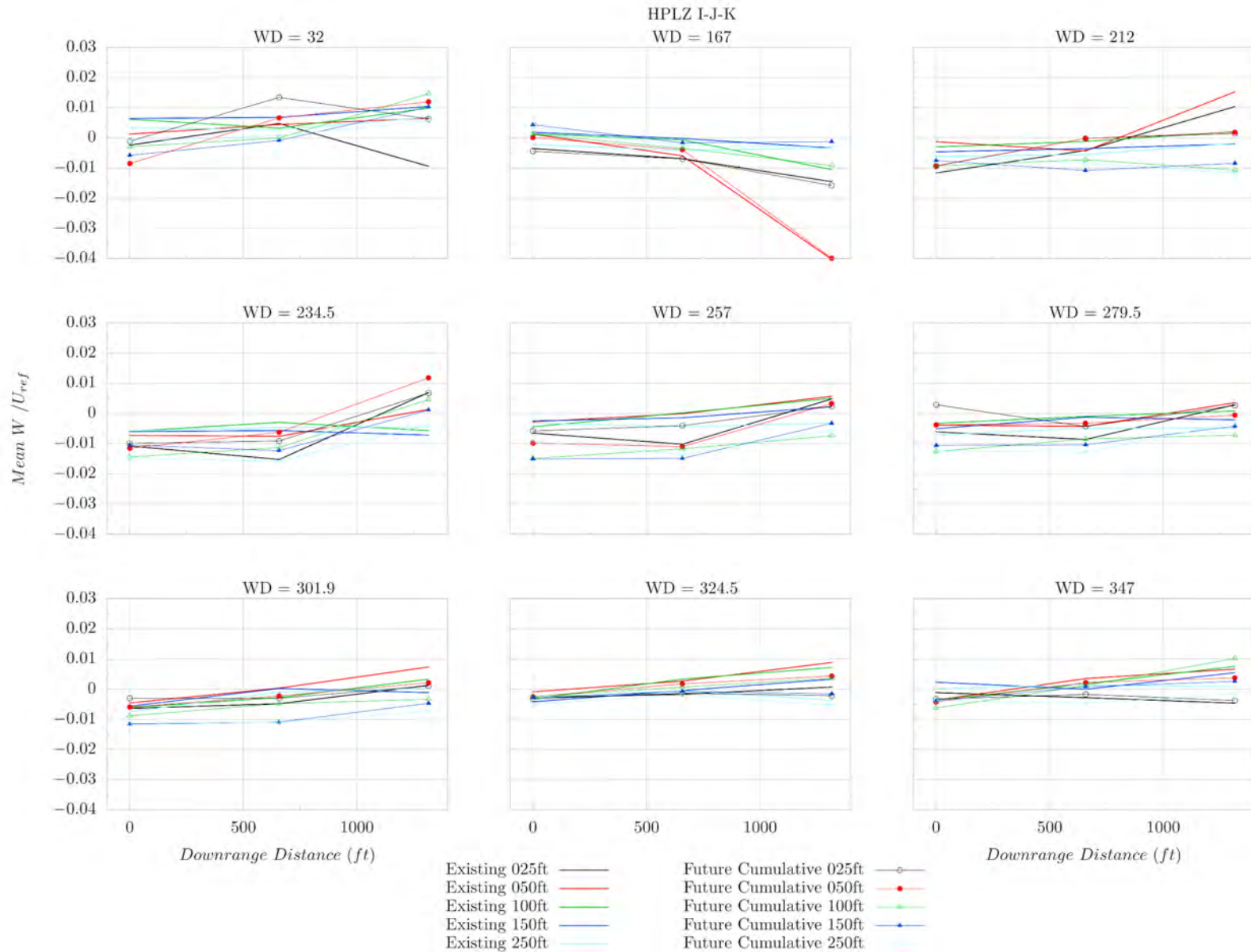


Figure C7: Existing and Future Cumulative Configurations: High-performance landing zone lane 1 (Points I-K): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

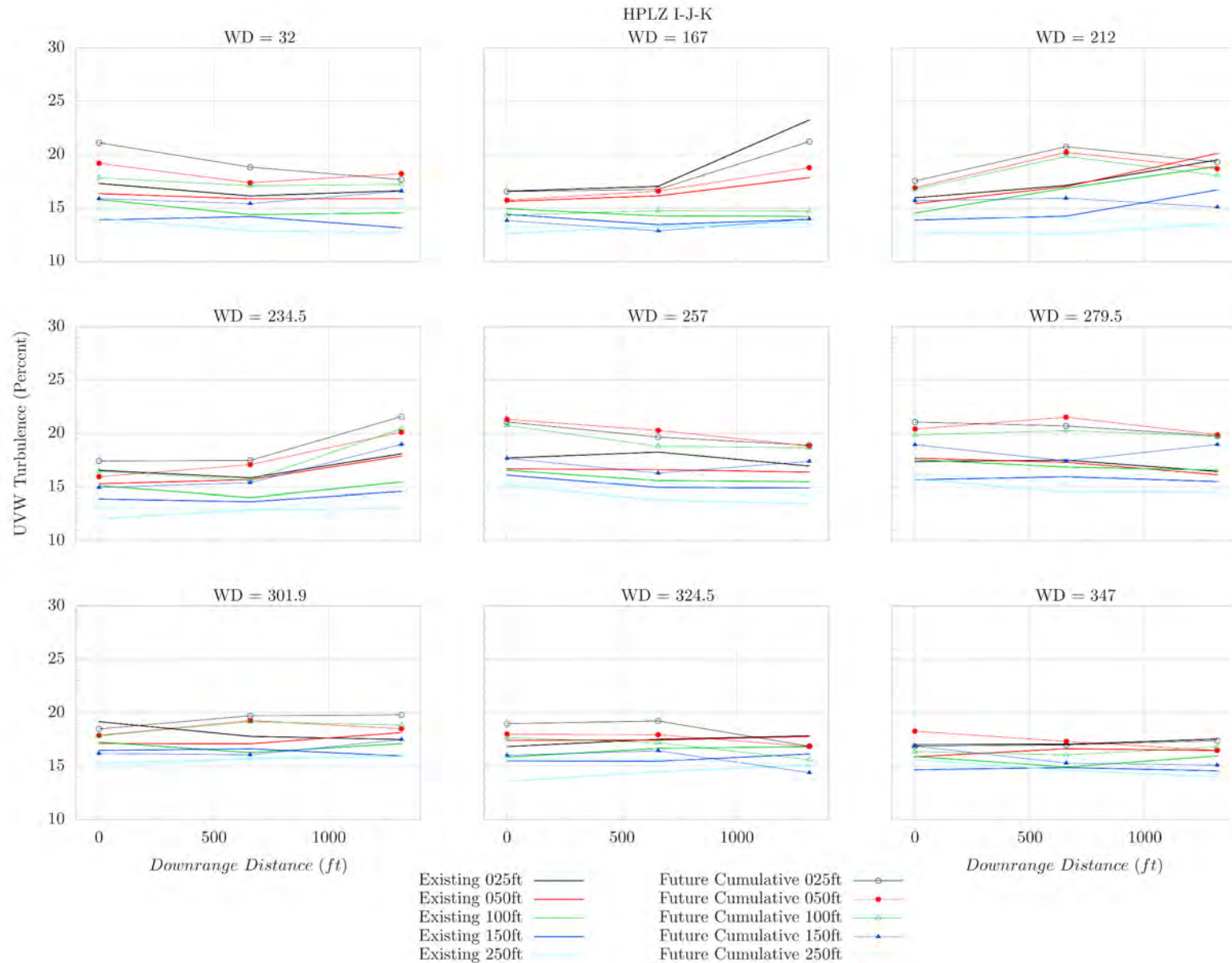


Figure C8: Existing and Future Cumulative Configurations: High-performance landing zone lane 1 (Points I-K): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

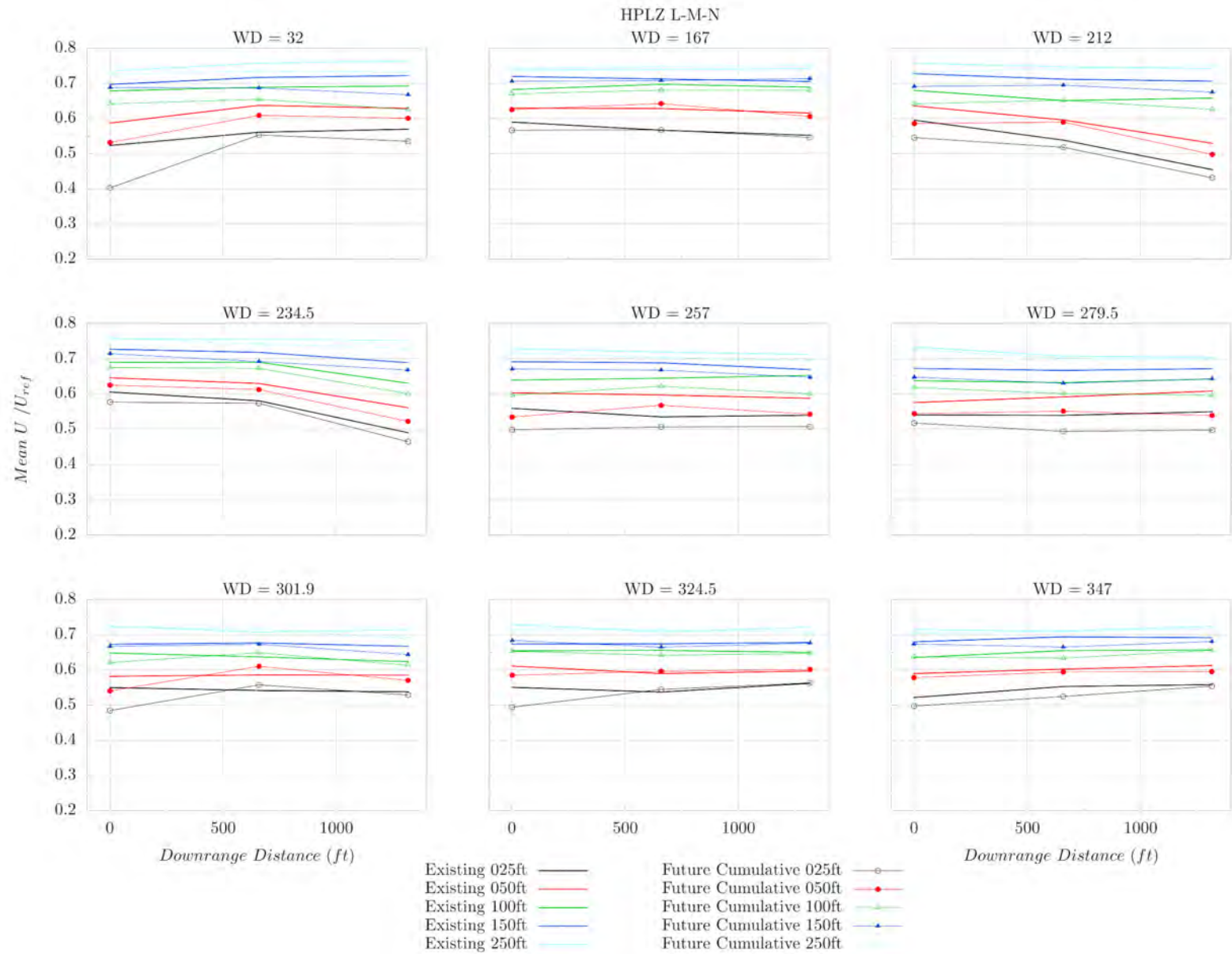


Figure C9: Existing and Future Cumulative Configurations: High-performance landing zone lane 2 (Points L-N): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

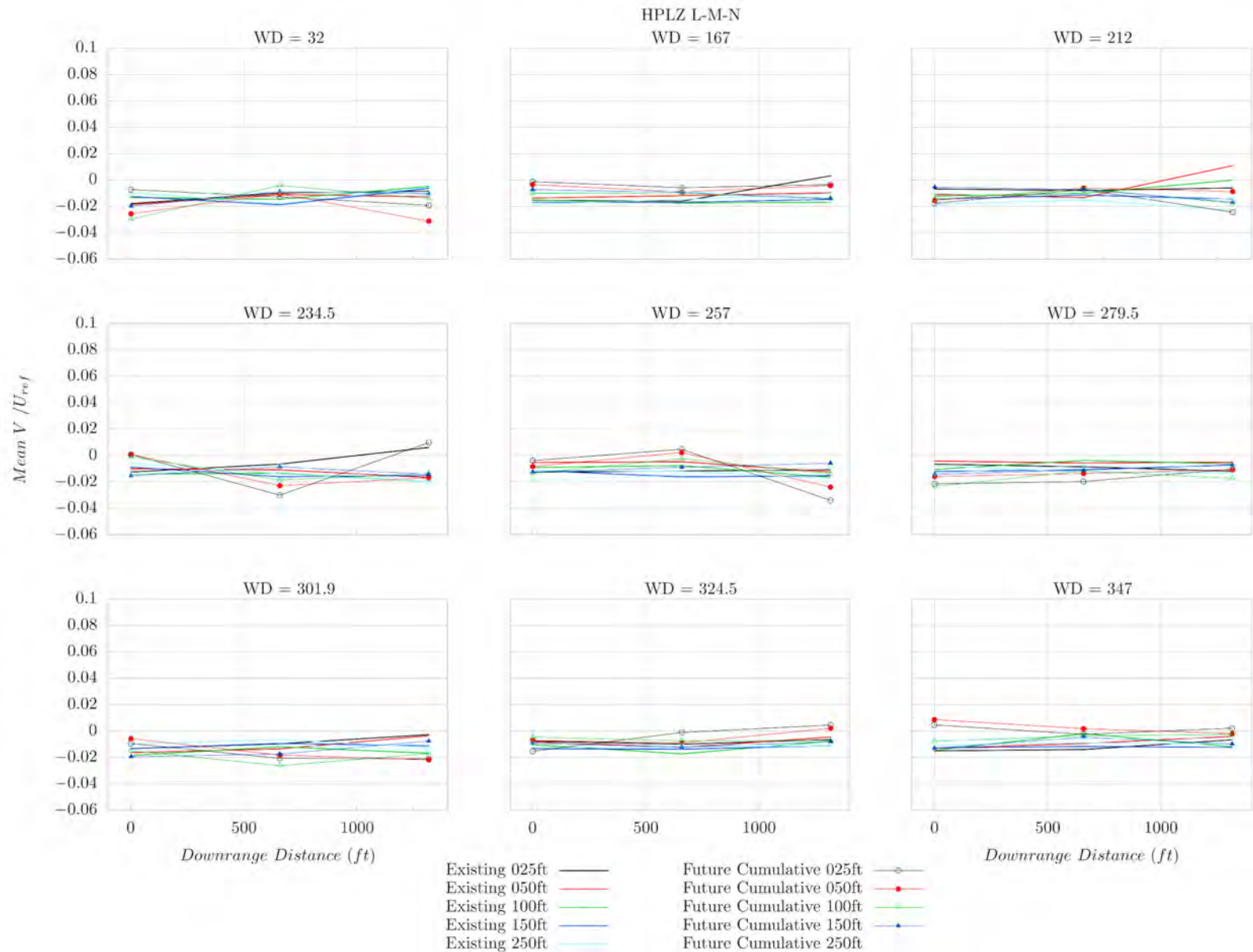


Figure C10: Existing and Future Cumulative Configurations: High-performance landing zone lane 2 (Points L-N): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

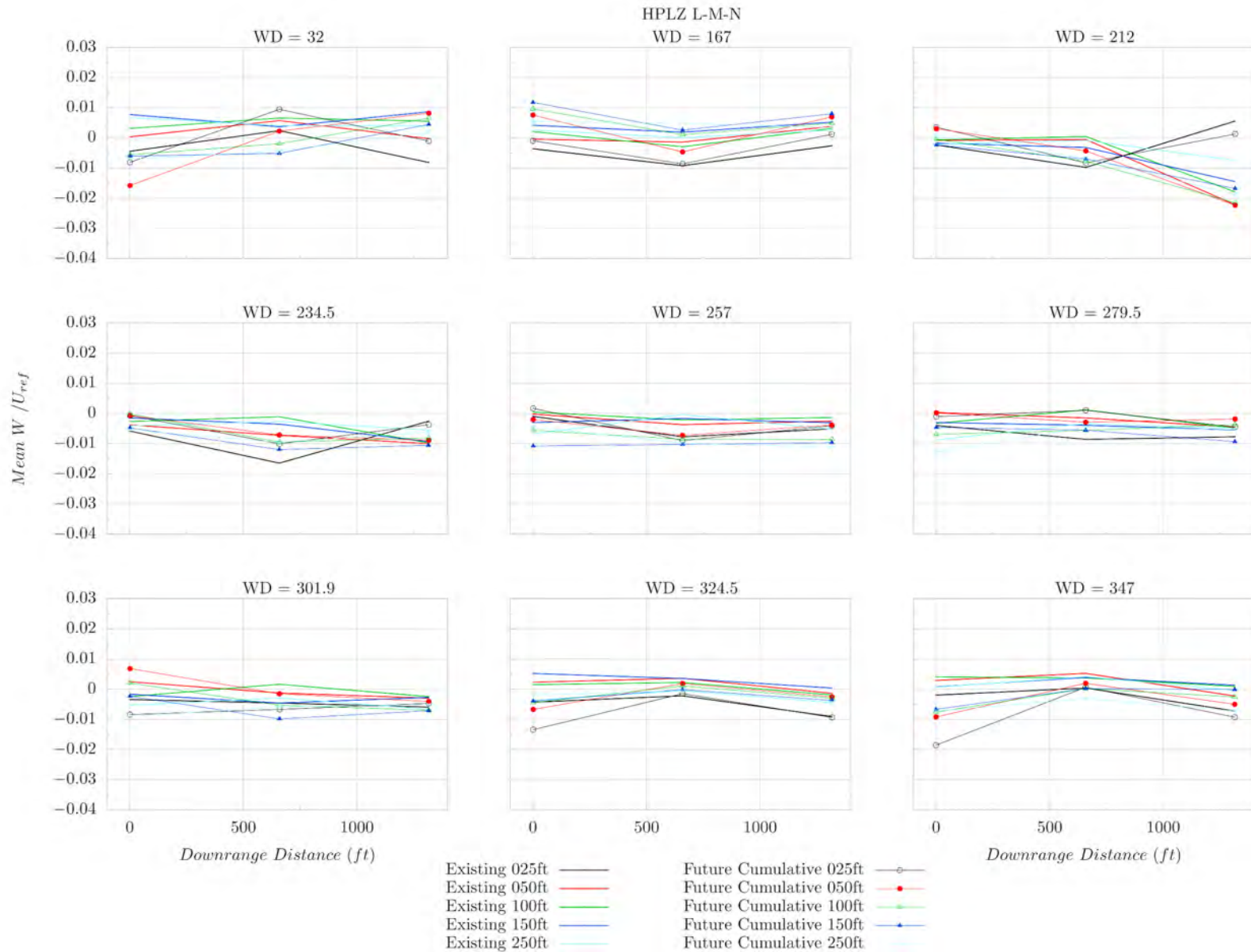


Figure C11: Existing and Future Cumulative Configurations: High-performance landing zone lane 2 (Points L-N): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

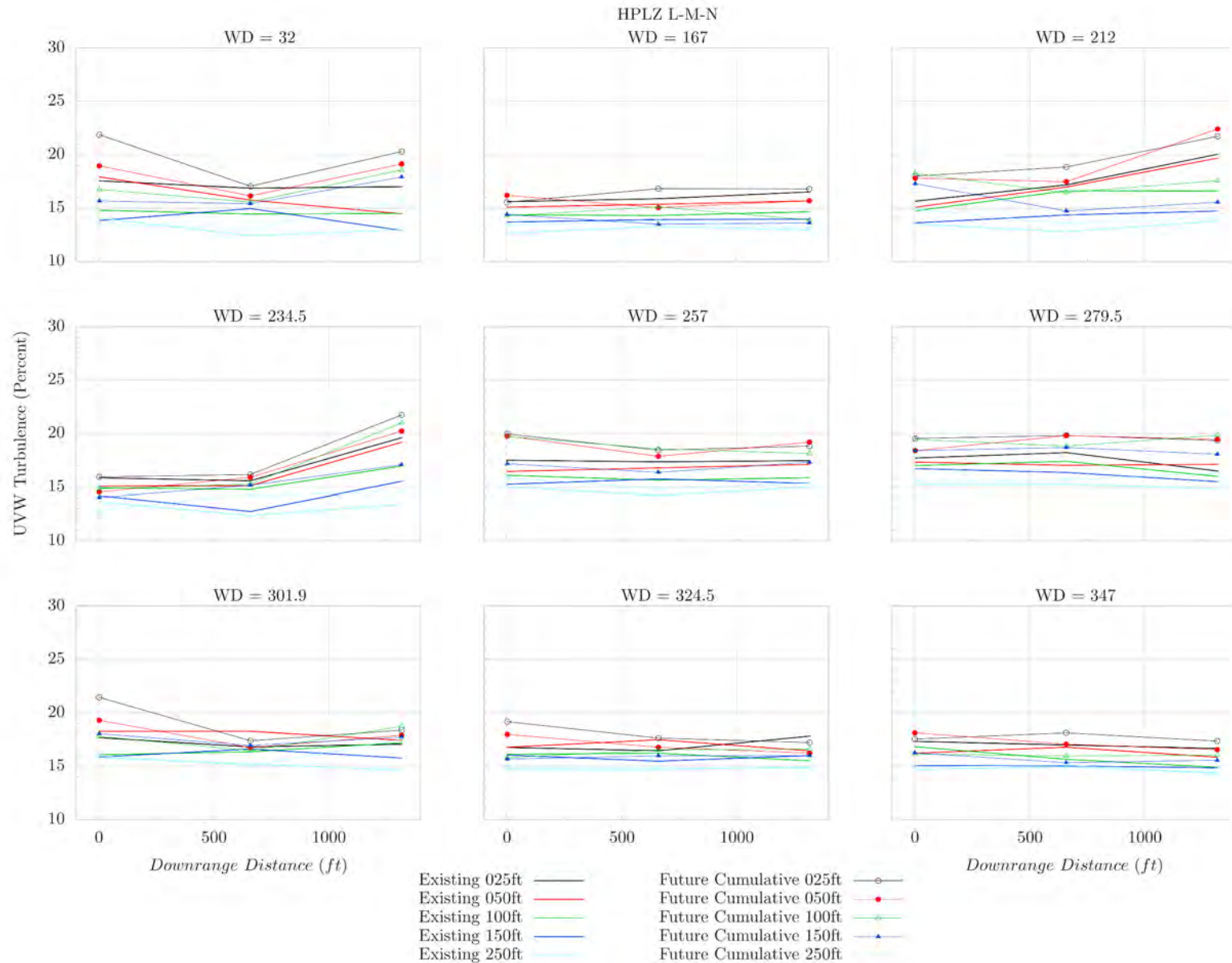


Figure C12: Existing and Future Cumulative Configurations: High-performance landing zone lane 2 (Points L-N): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

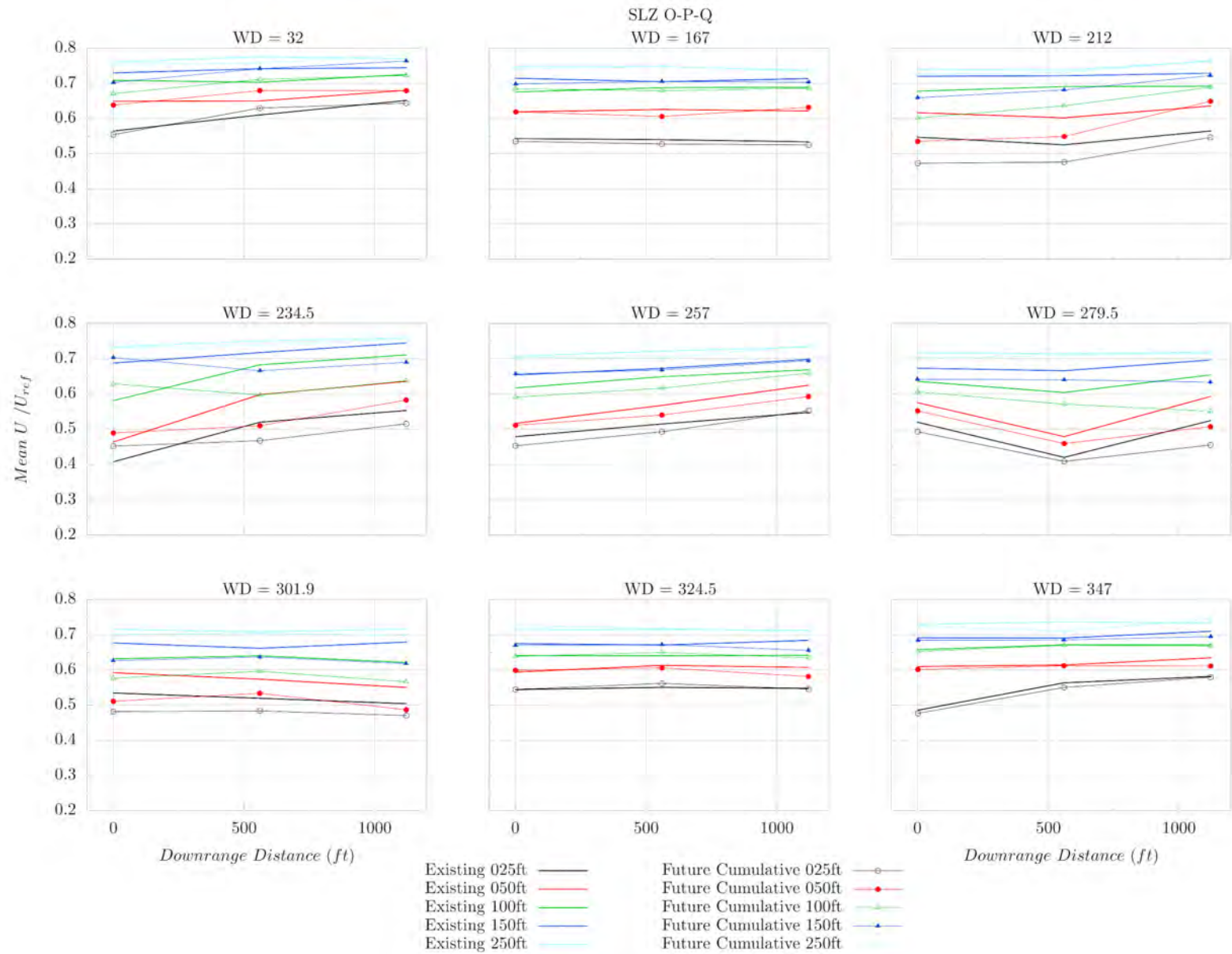


Figure C13: Existing and Future Cumulative Configurations: Student landing zone lane 1 (Points O-Q): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

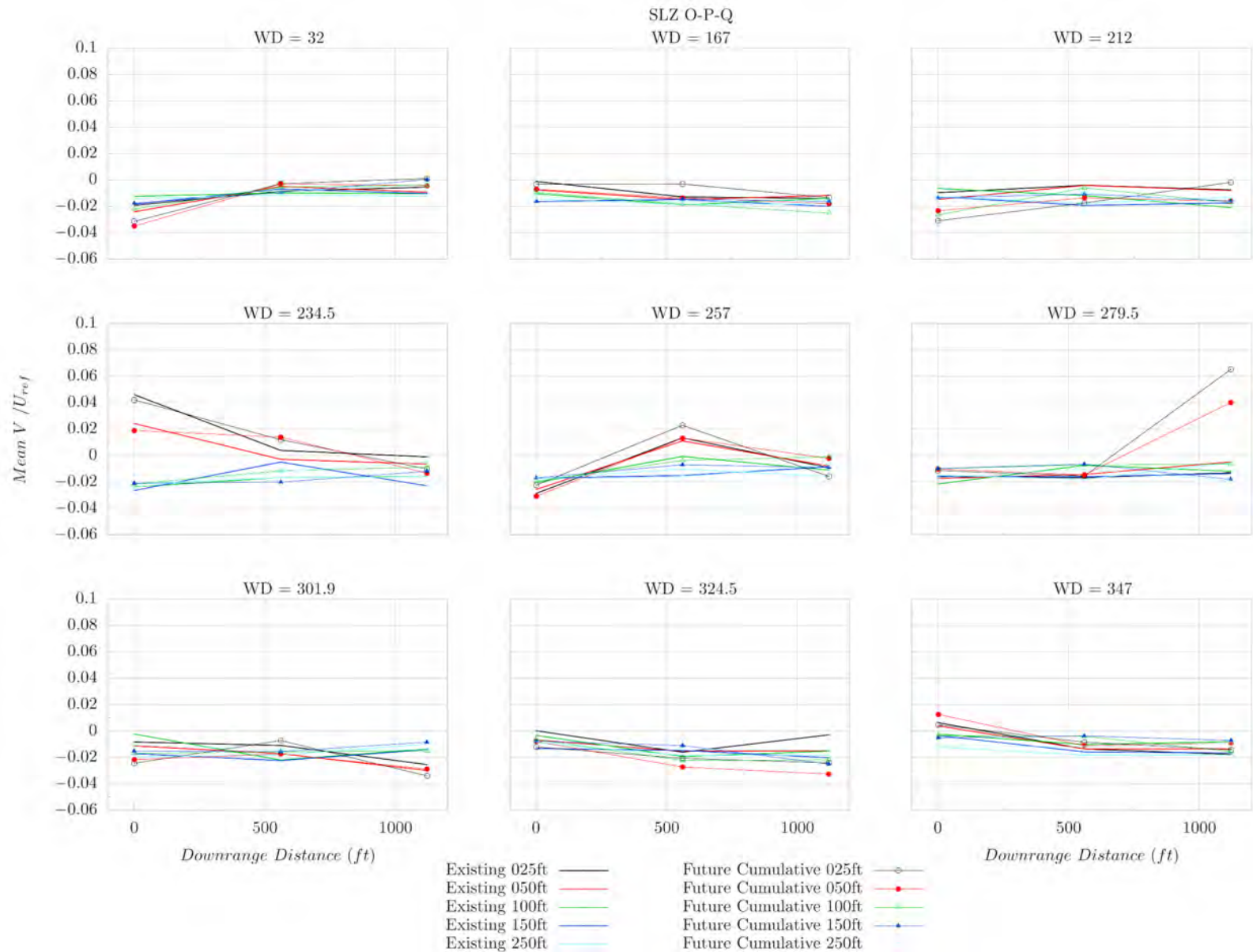


Figure C14: Existing and Future Cumulative Configurations: Student landing zone lane 1 (Points O-Q): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

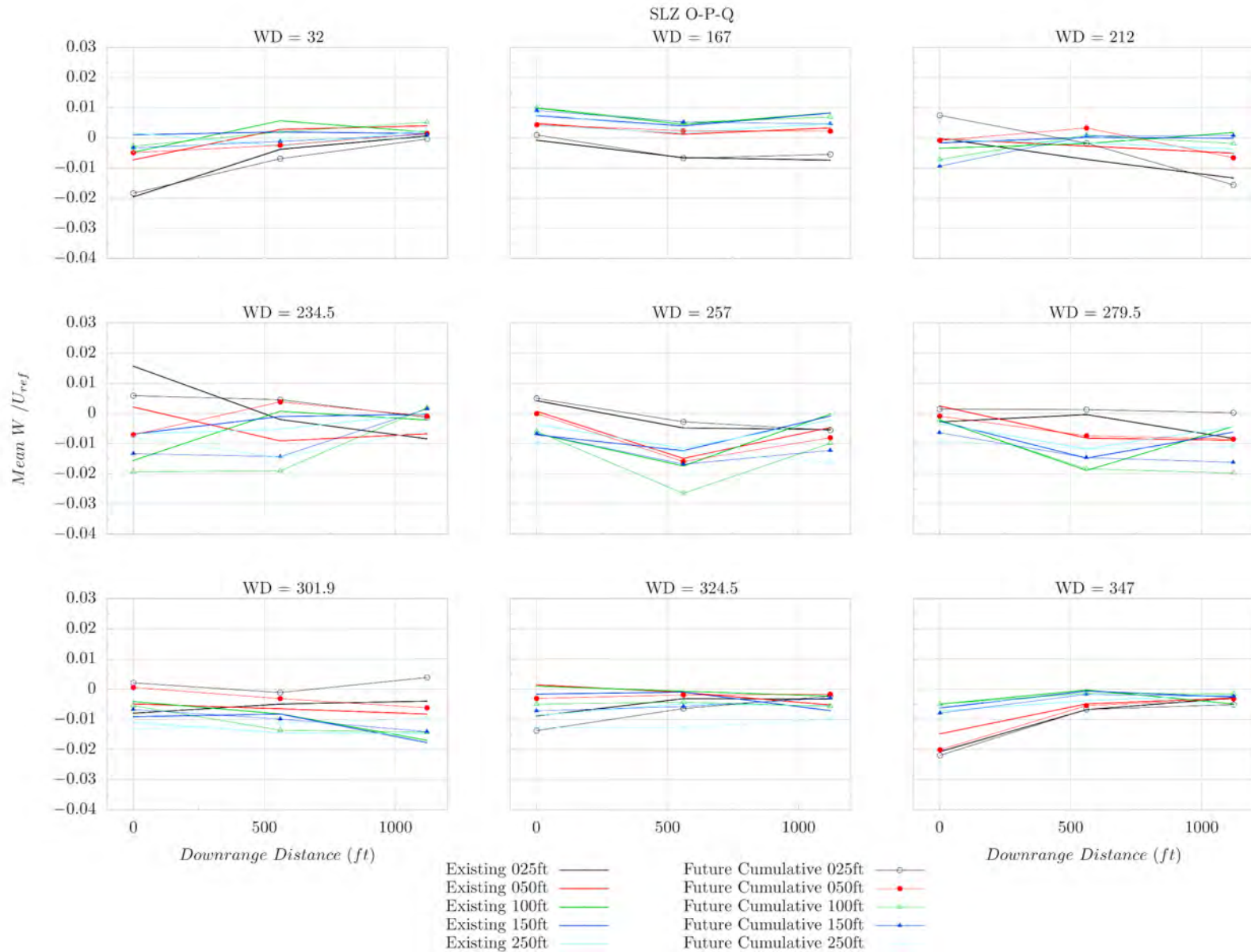


Figure C15: Existing and Future Cumulative Configurations: Student landing zone lane 1 (Points O-Q): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

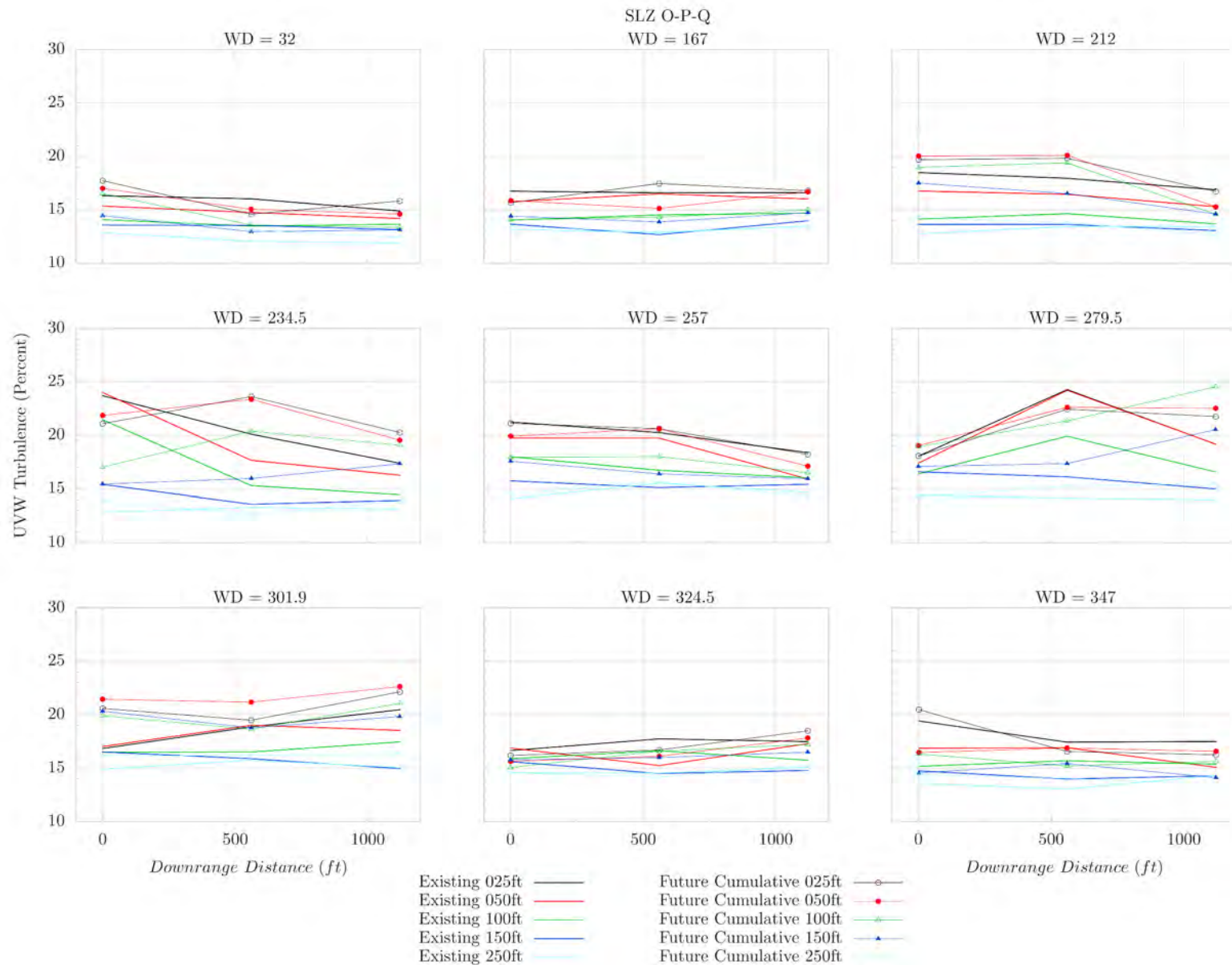


Figure C16: Existing and Future Cumulative Configurations: Student landing zone lane 1 (Points O-Q): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

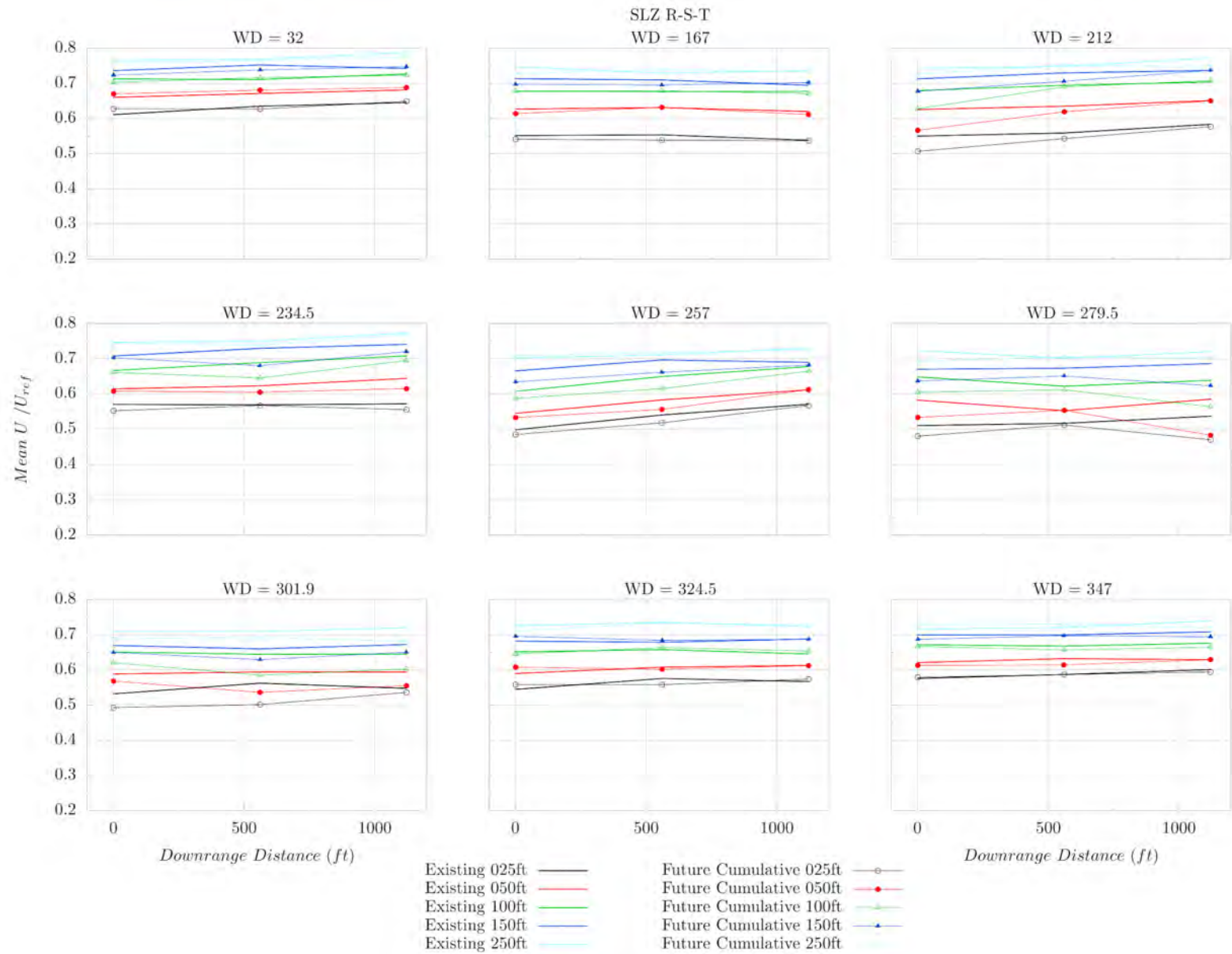


Figure C17: Existing and Future Cumulative Configurations: Student landing zone lane 2 (Points R-T): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

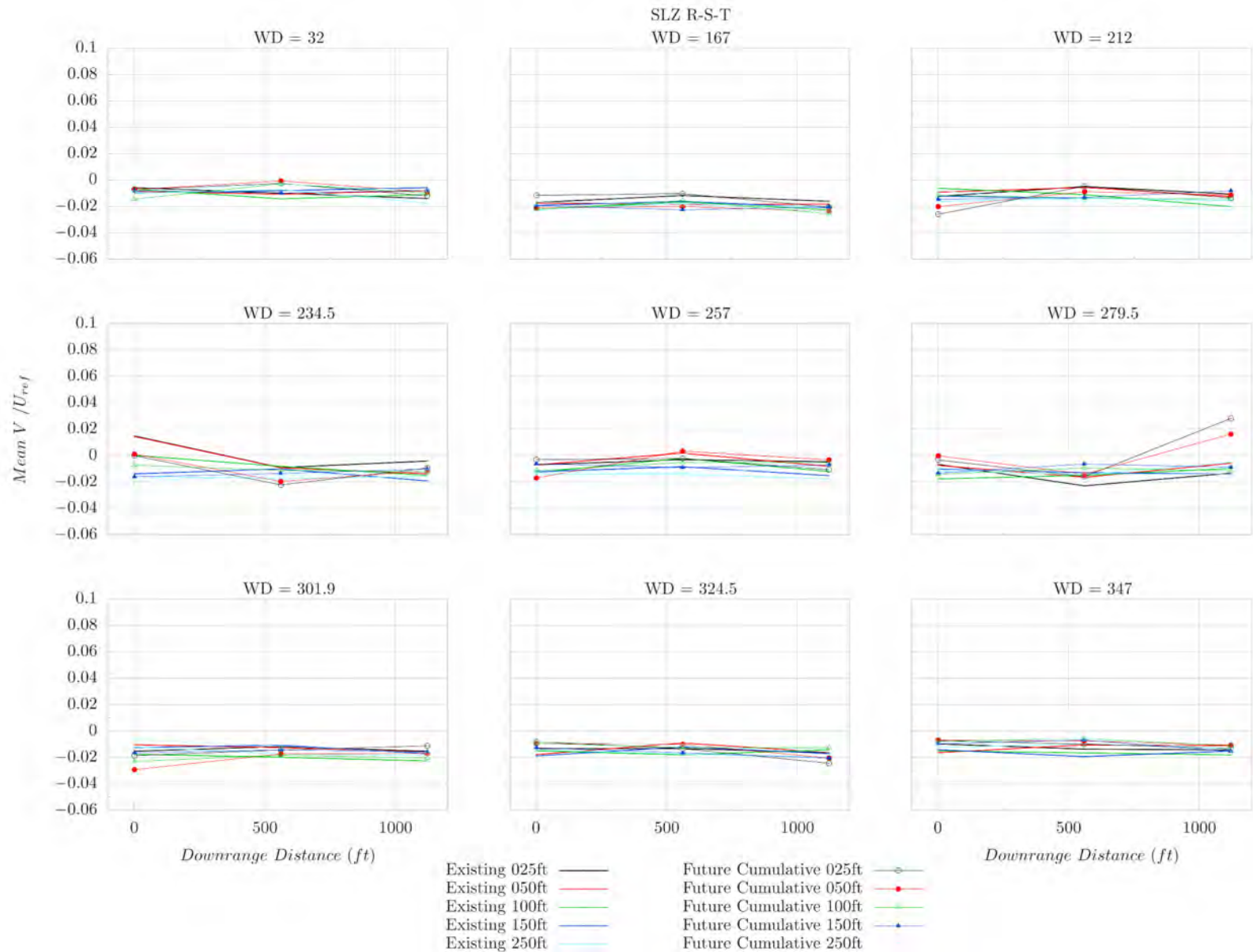


Figure C18: Existing and Future Cumulative Configurations: Student landing zone lane 2 (Points R-T): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

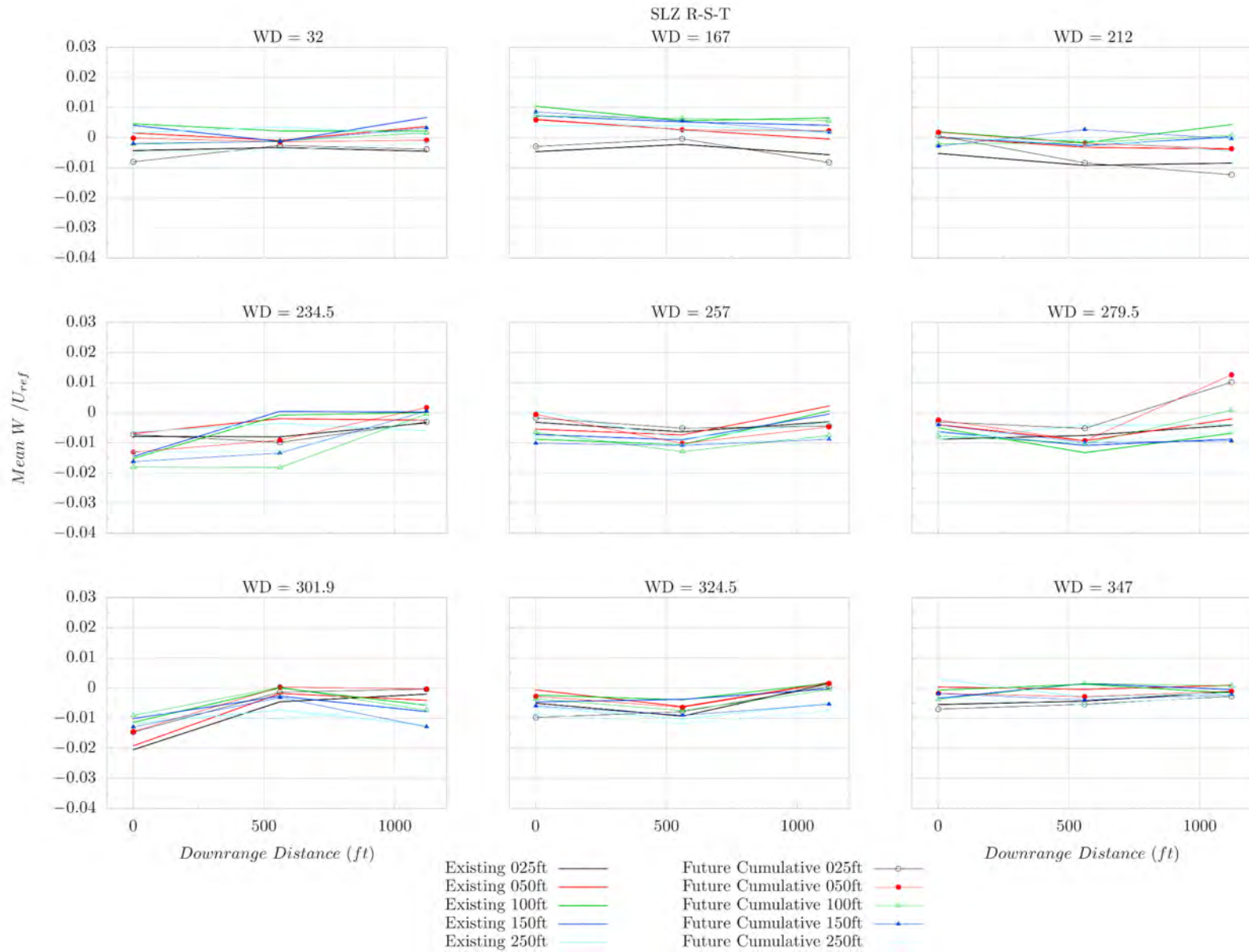


Figure C19: Existing and Future Cumulative Configurations: Student landing zone lane 2 (Points R-T): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

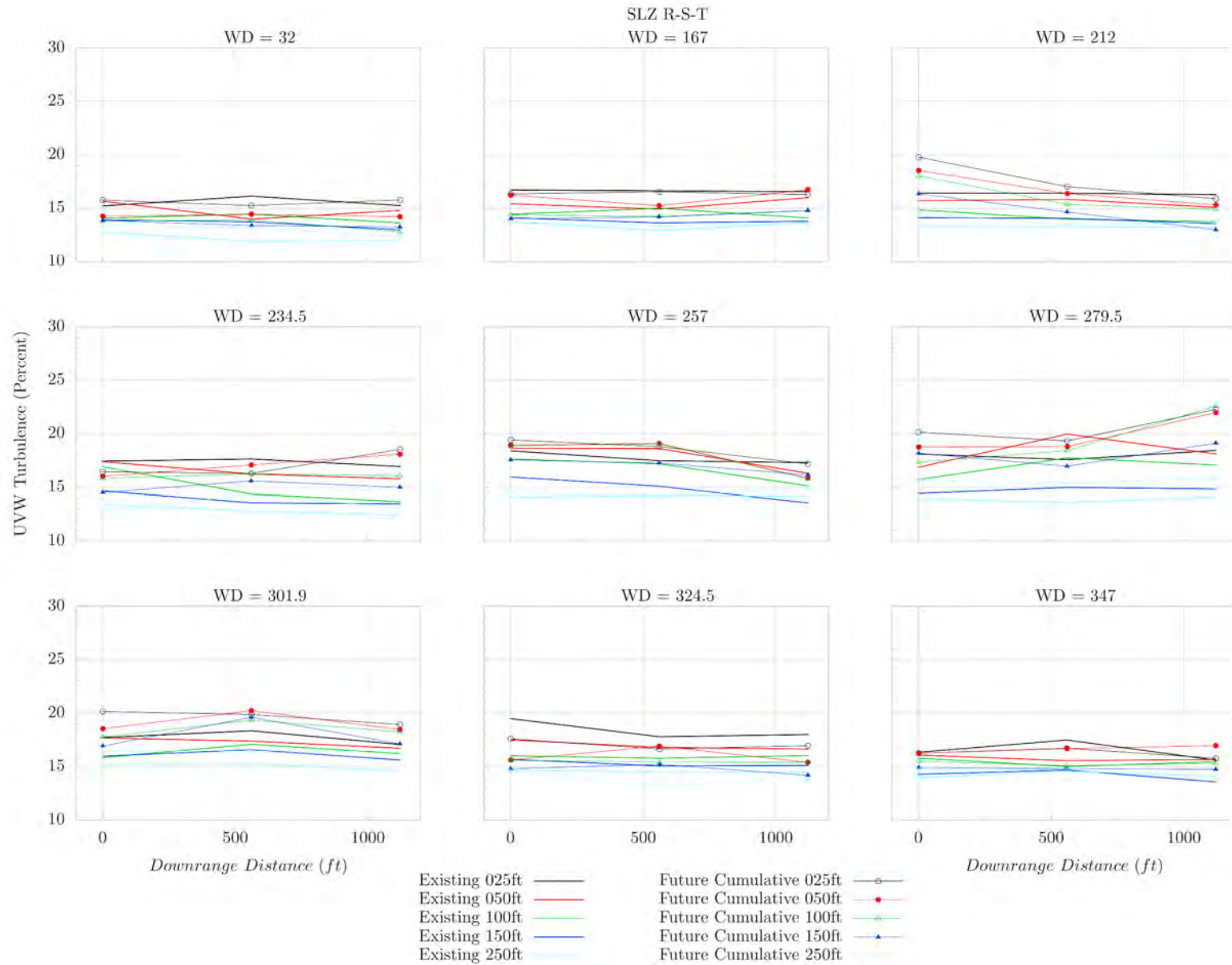


Figure C20: Existing and Future Cumulative Configurations: Student landing zone lane 2 (Points R-T): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

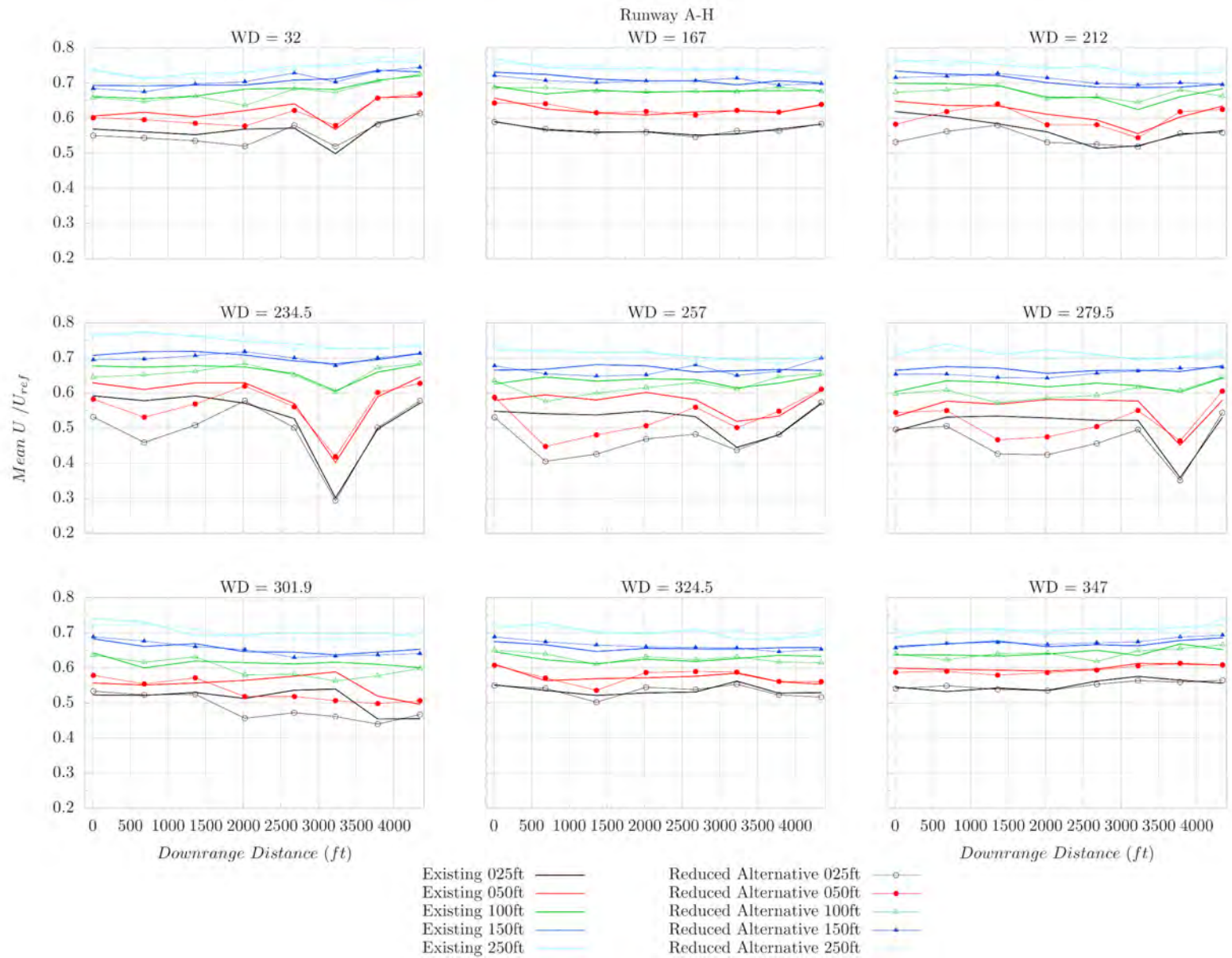


Figure C21: Existing and Reduced Alternative Configurations: Runway (Points A-H): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

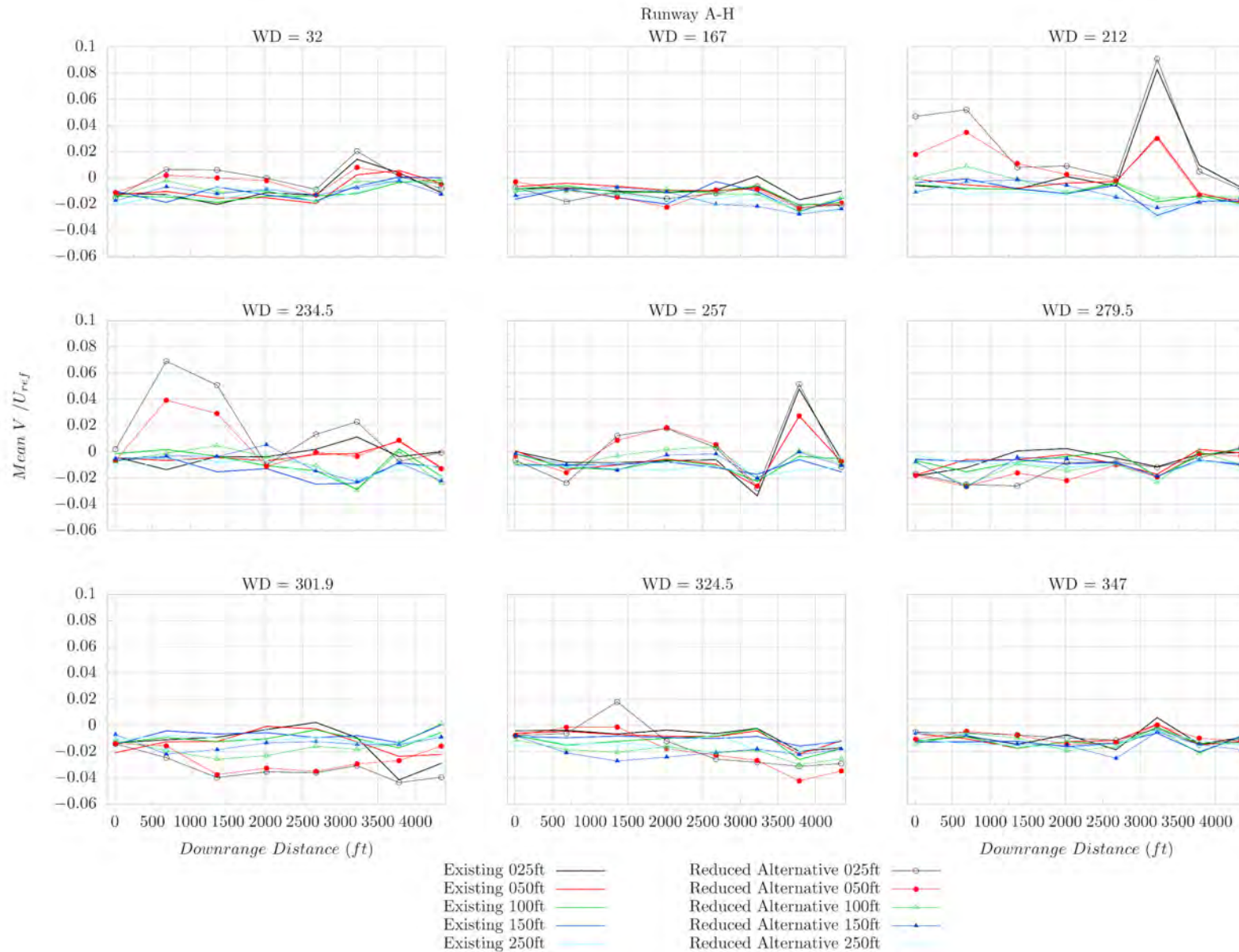


Figure C22: Existing and Reduced Alternative Configurations: Runway (Points A-H): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

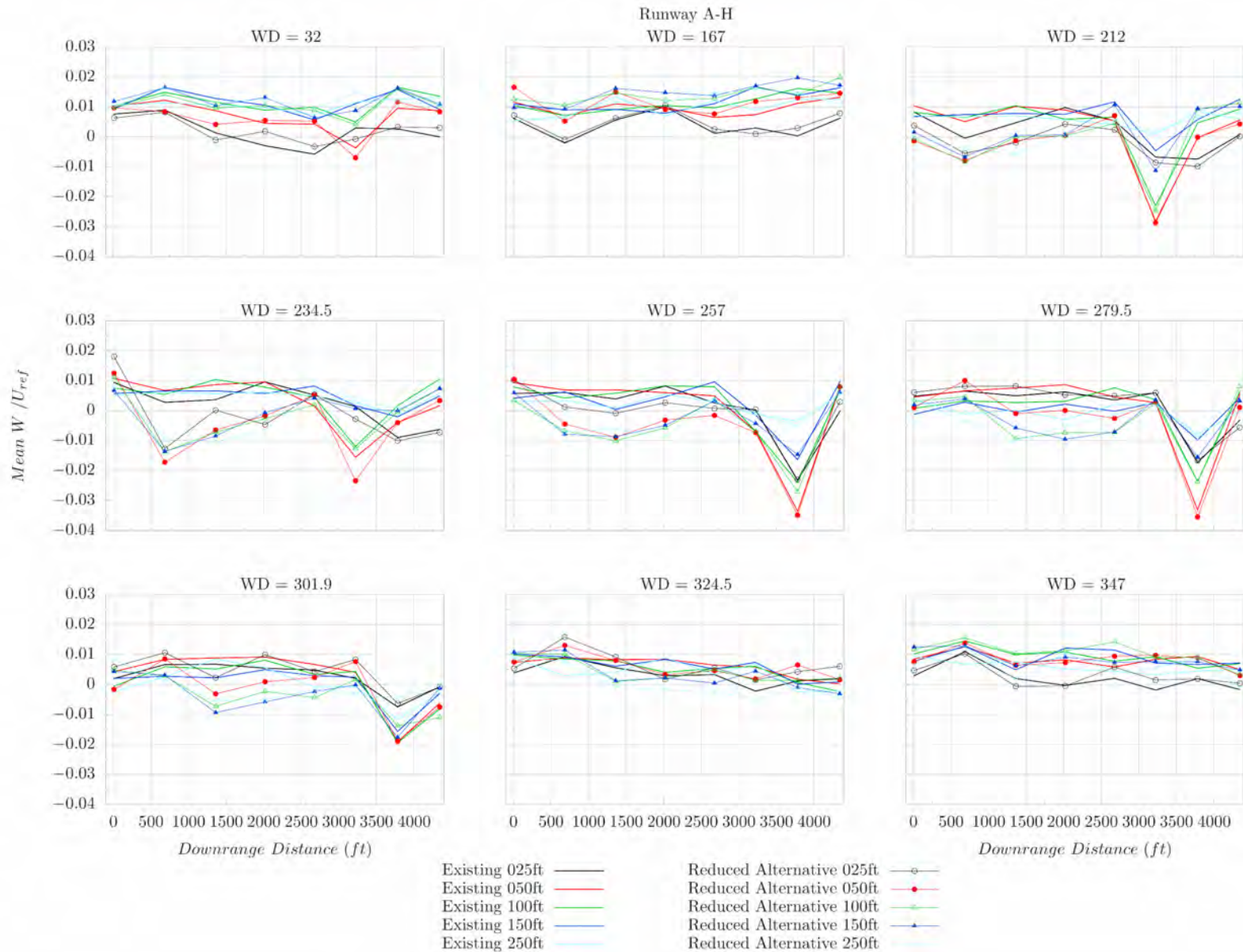


Figure C23: Existing and Reduced Alternative Configurations: Runway (Points A-H): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

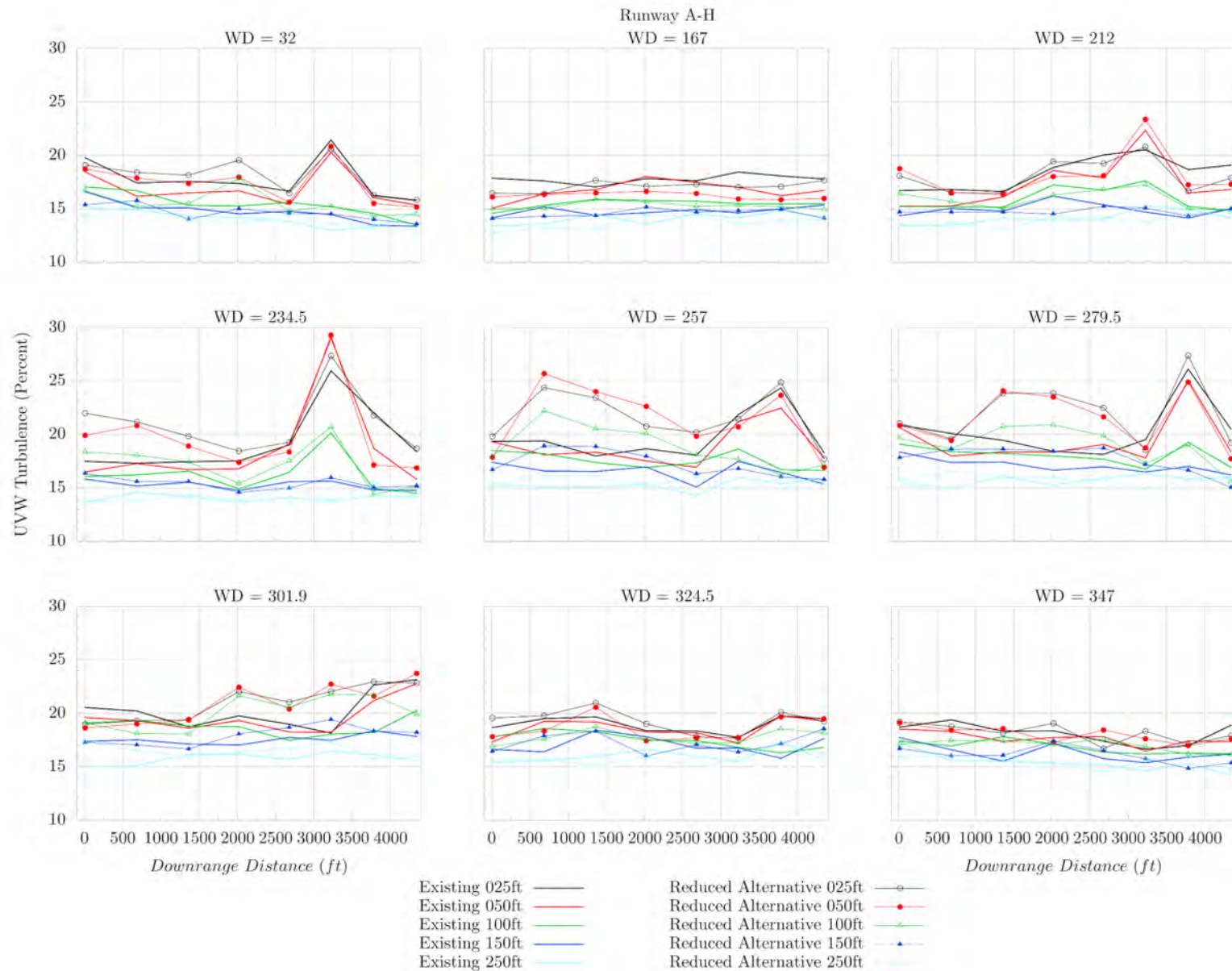


Figure C24: Existing and Reduced Alternative Configurations: Runway (Points A-H): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

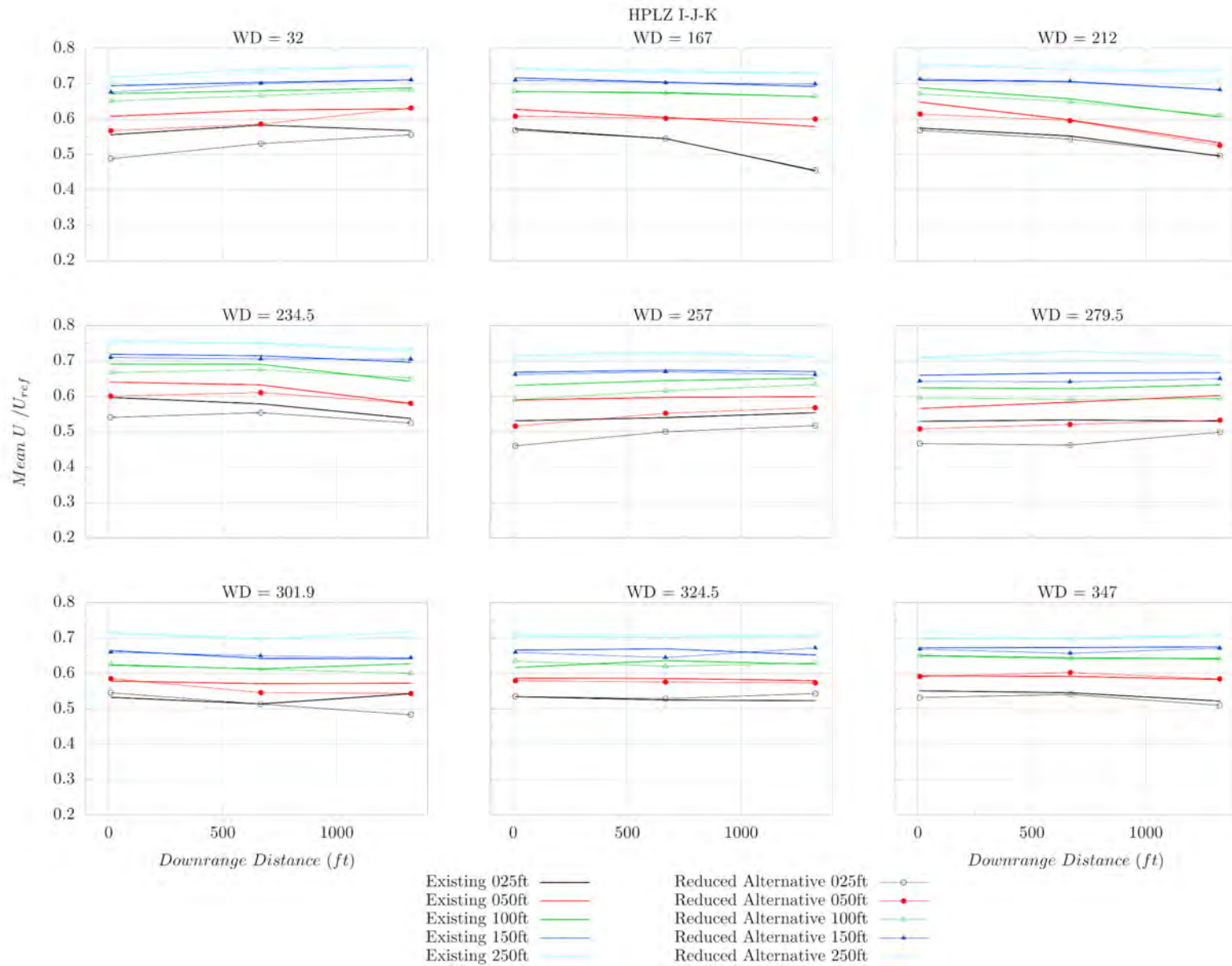


Figure C25: Existing and Reduced Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

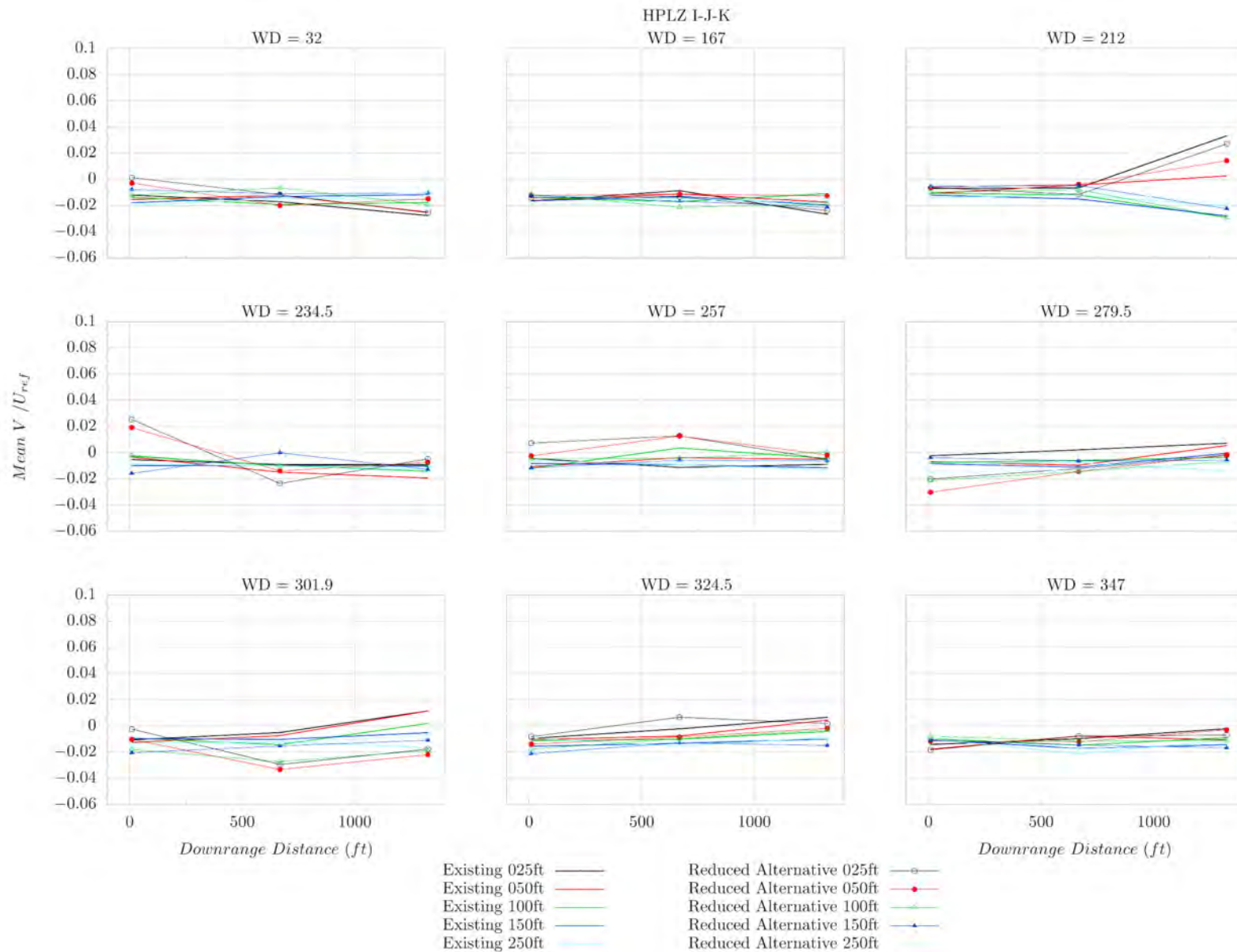


Figure C26: Existing and Reduced Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

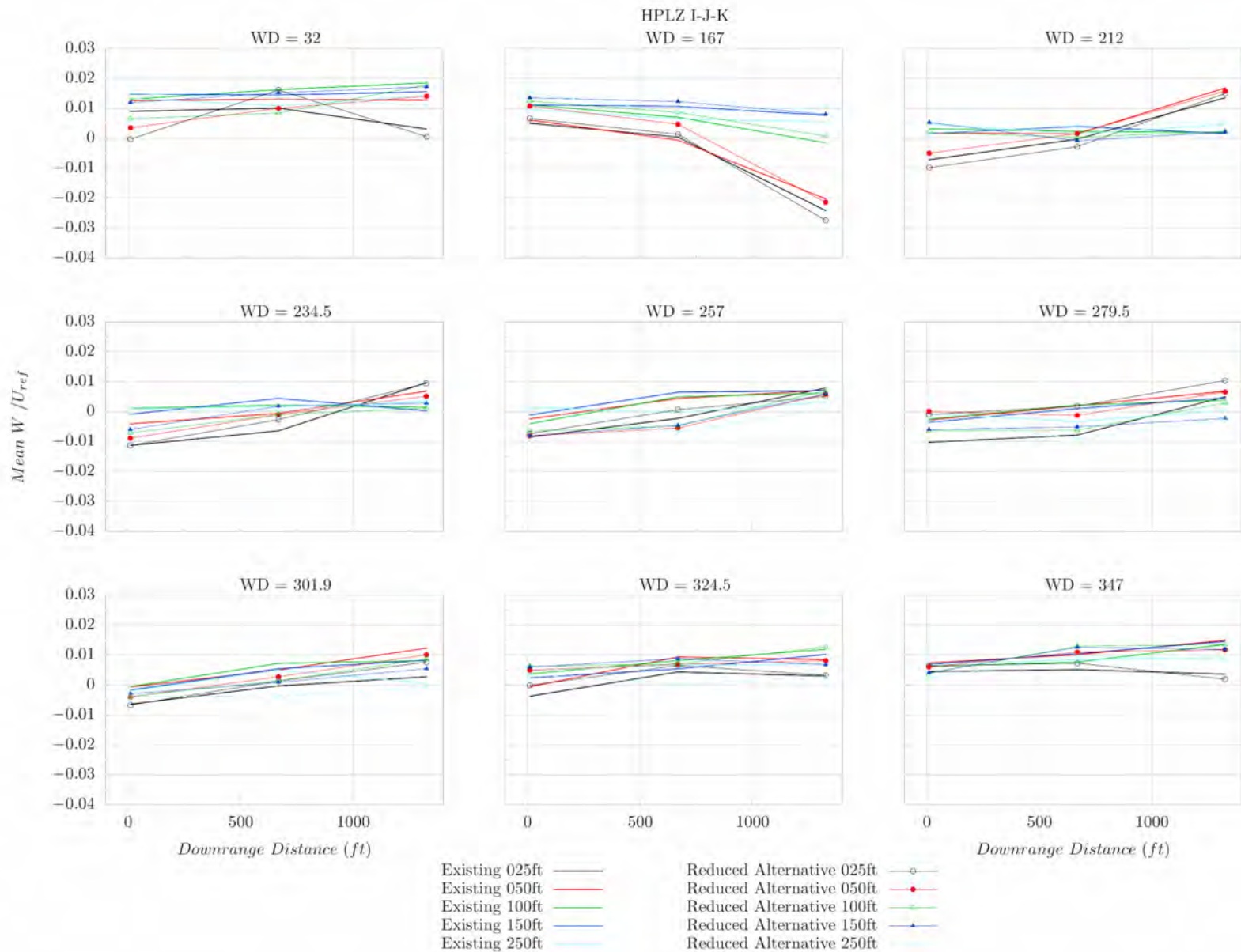


Figure C27: Existing and Reduced Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

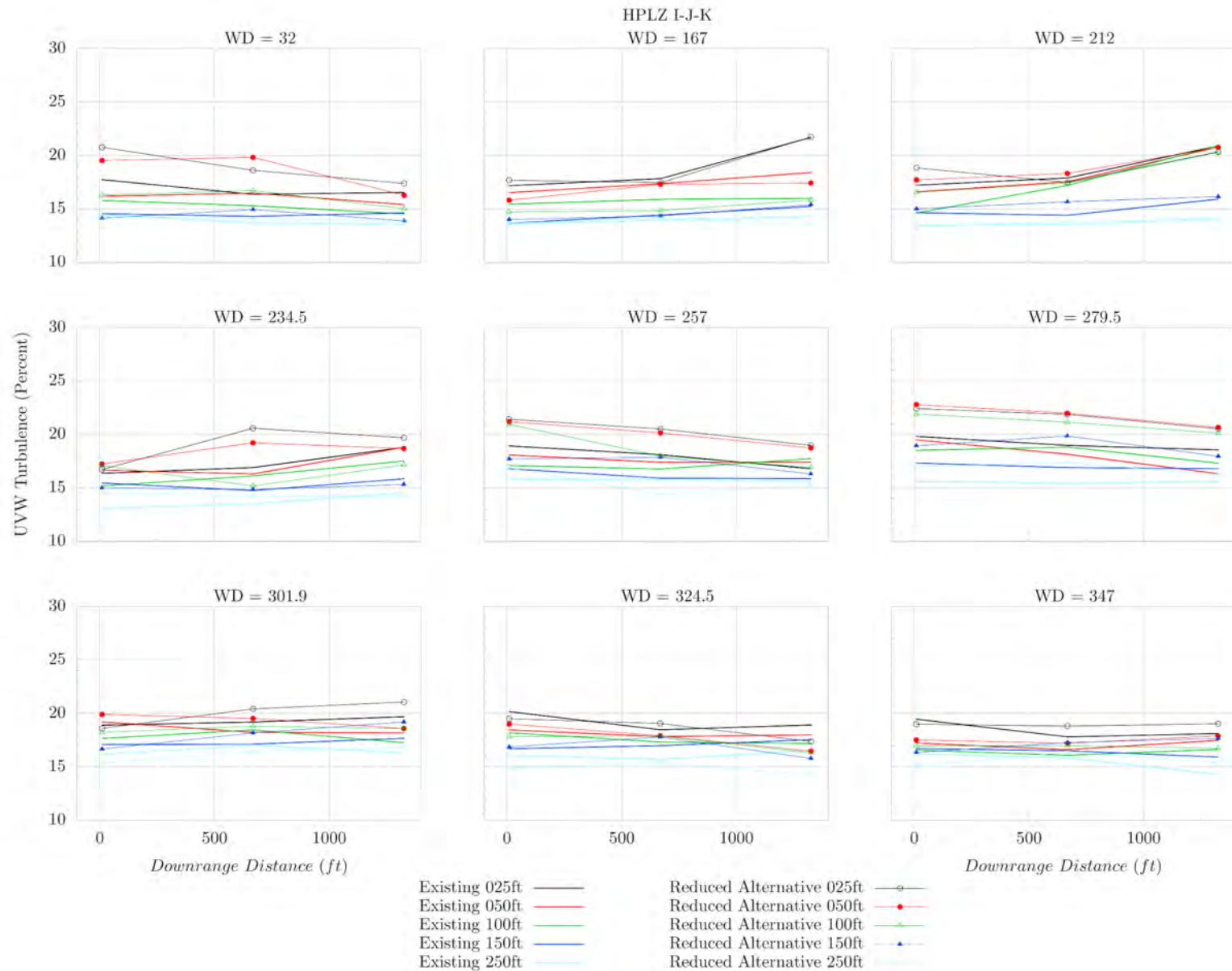


Figure C28: Existing and Reduced Alternative Configurations: High-performance landing zone lane 1 (Points I-K): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

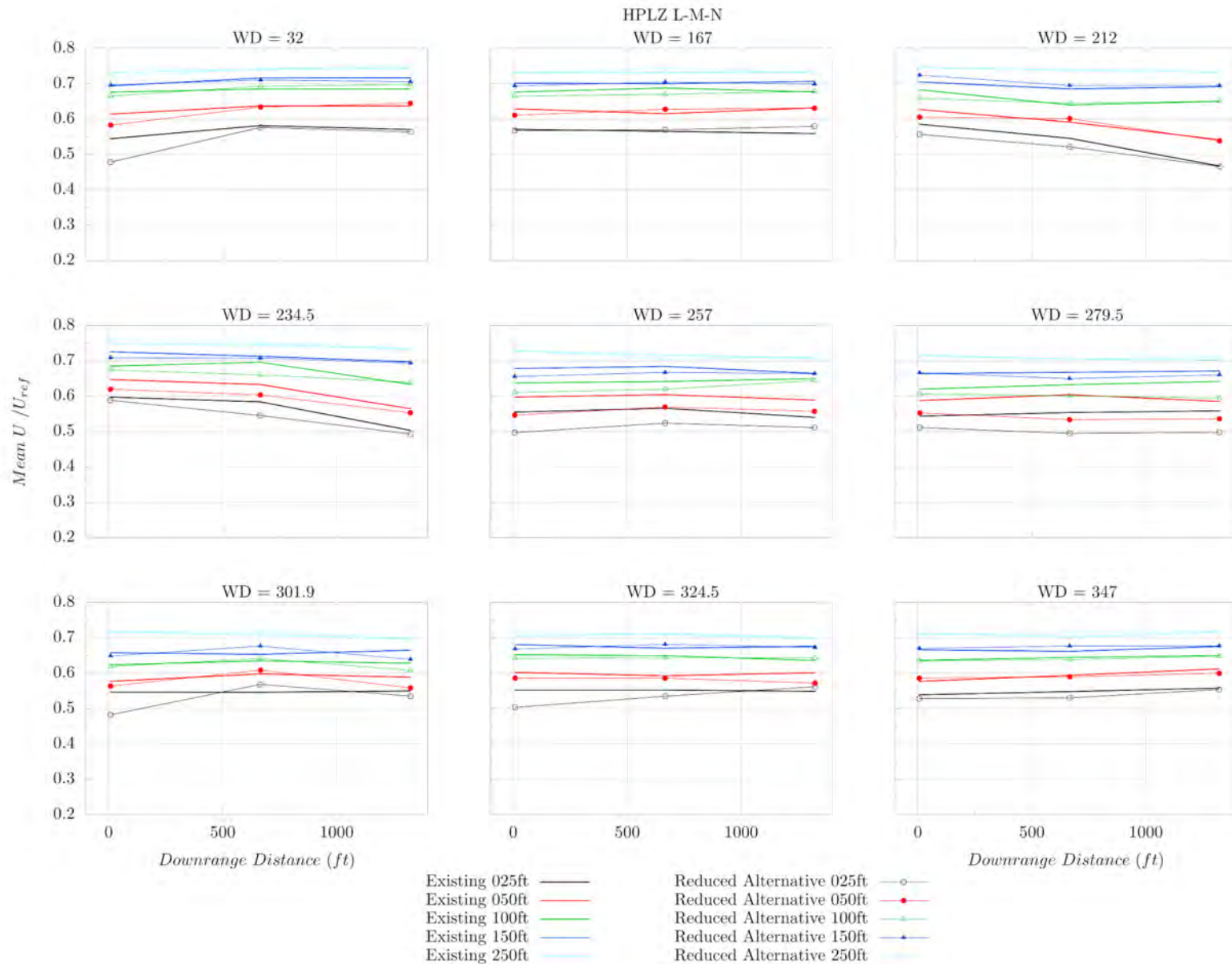


Figure C29: Existing and Reduced Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

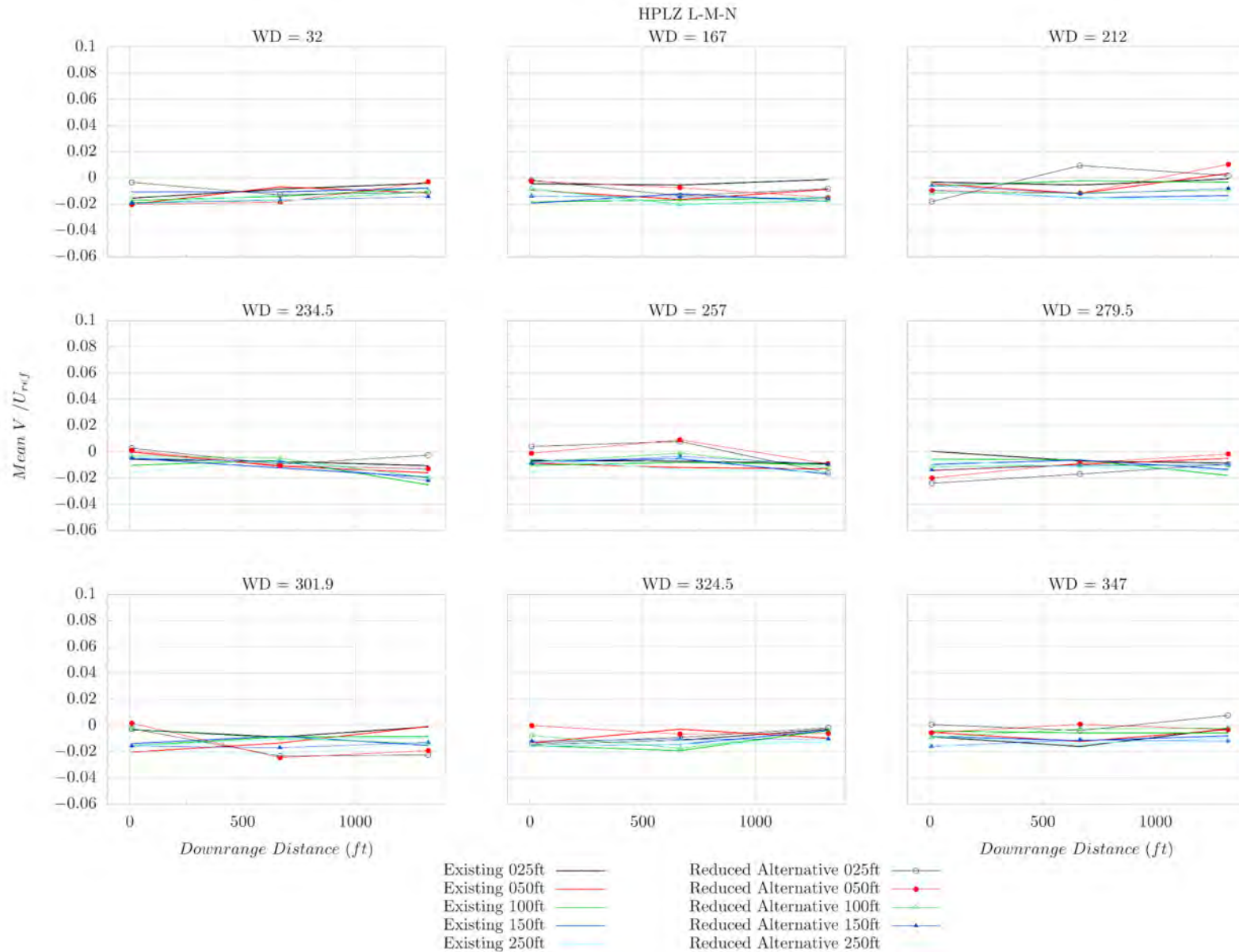


Figure C30: Existing and Reduced Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

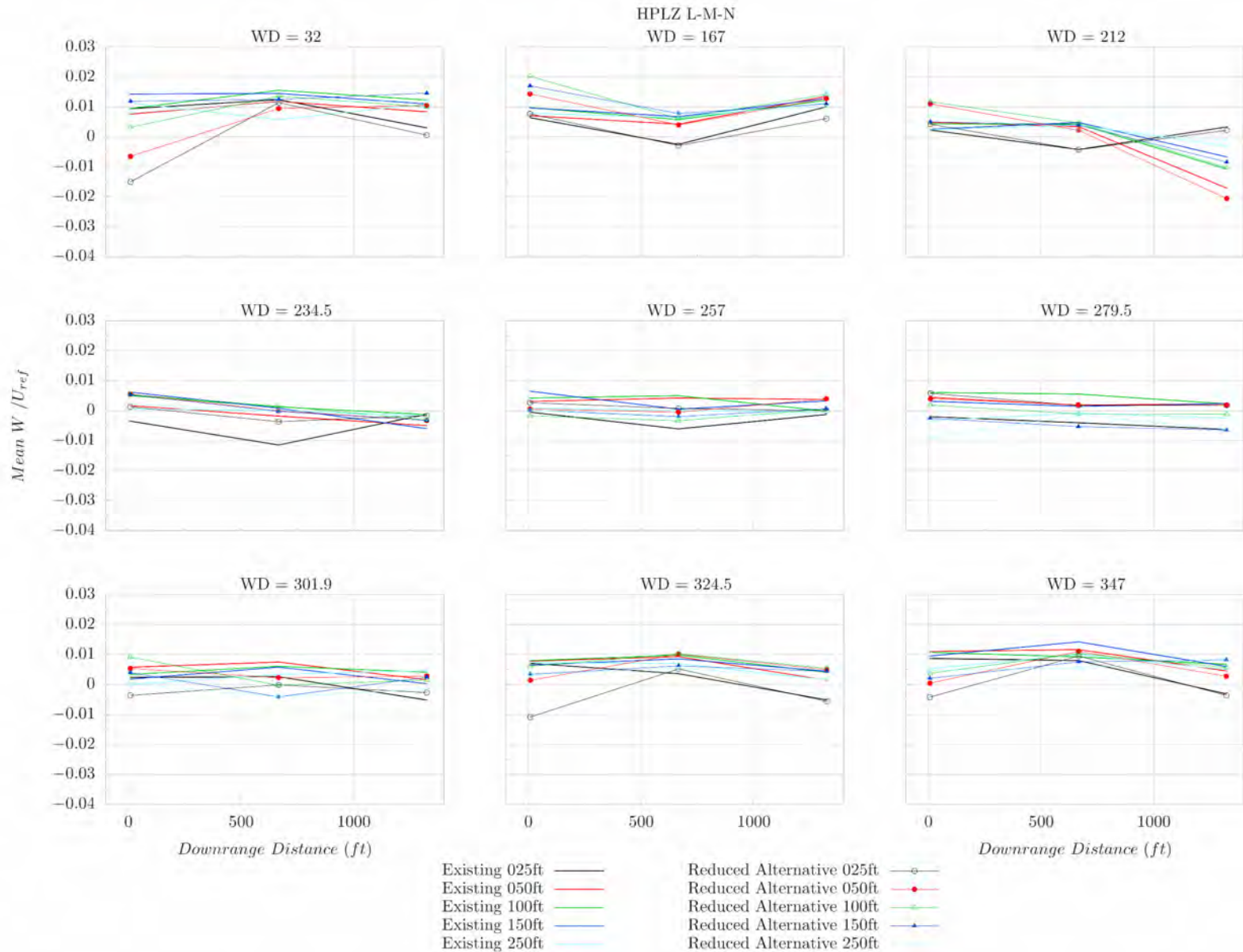


Figure C31: Existing and Reduced Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

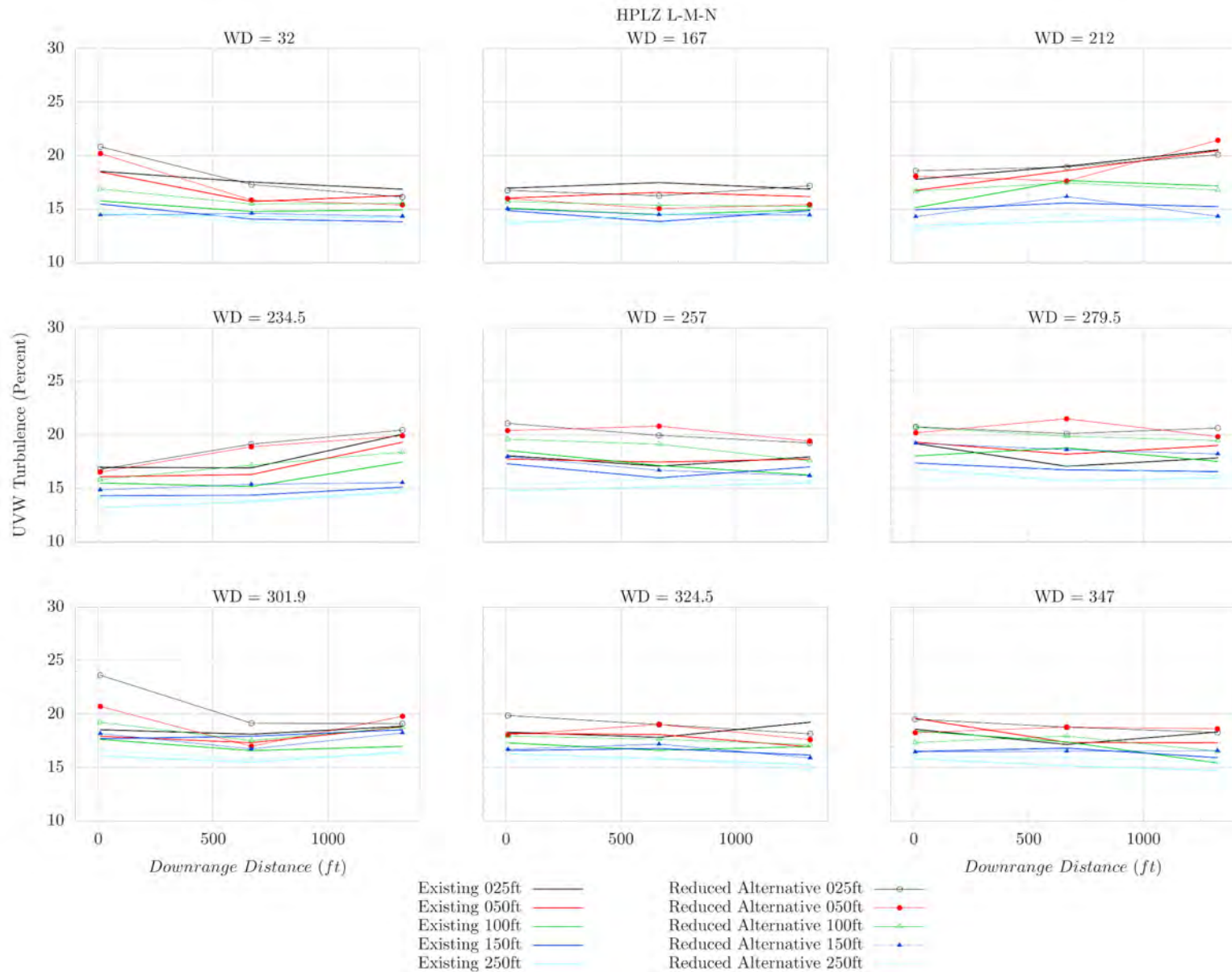


Figure C32: Existing and Reduced Alternative Configurations: High-performance landing zone lane 2 (Points L-N): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

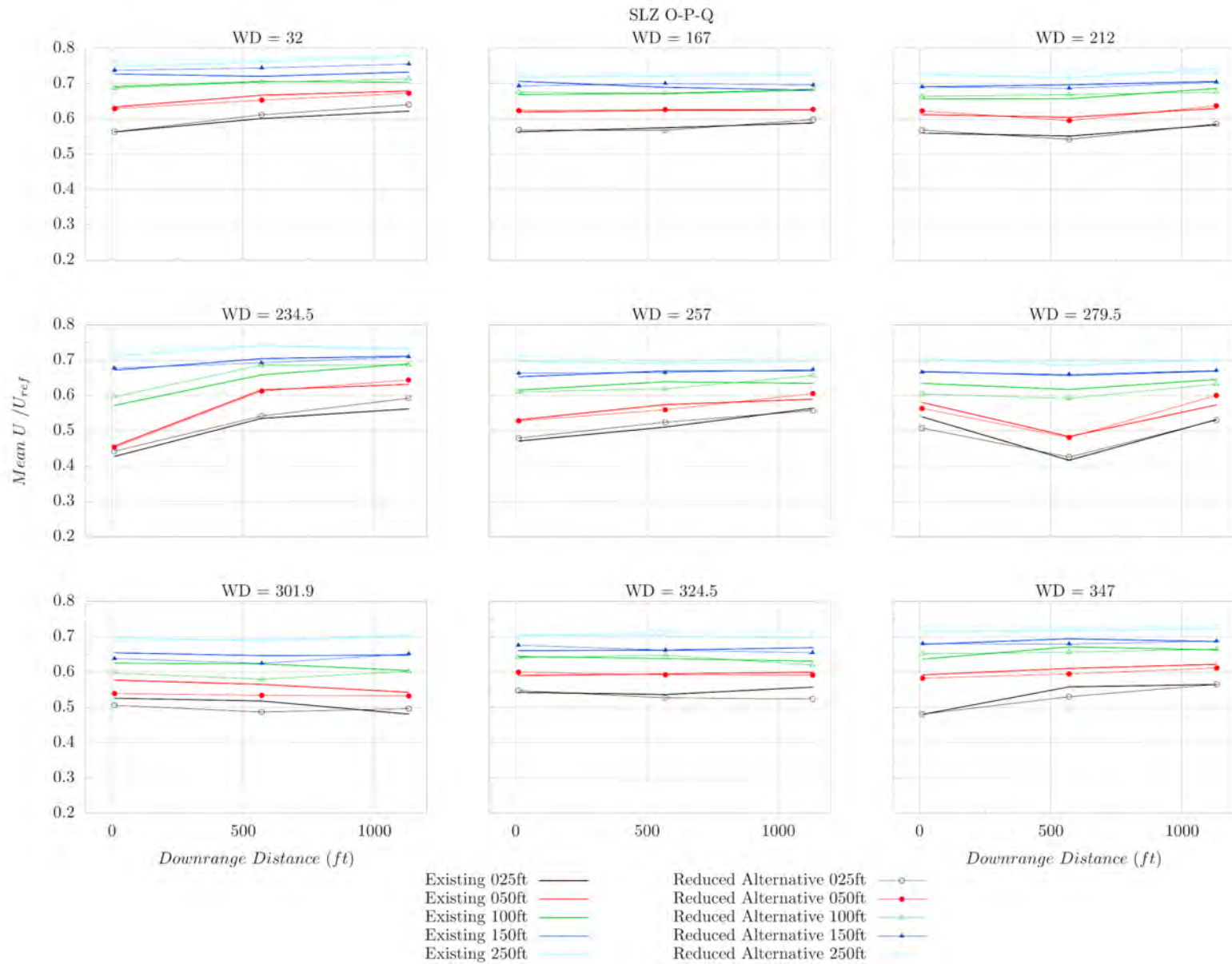


Figure C33: Existing and Reduced Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

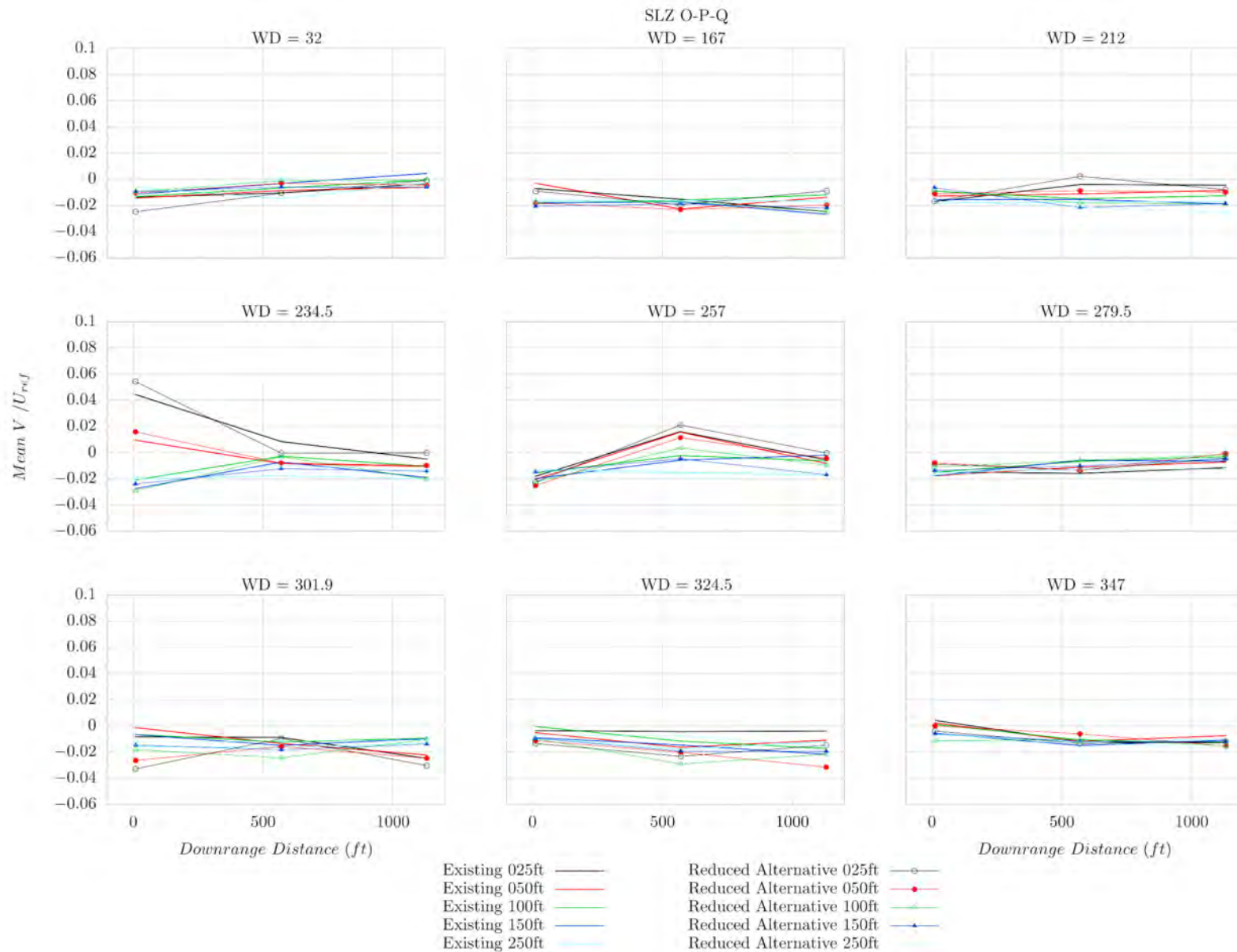


Figure C34: Existing and Reduced Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

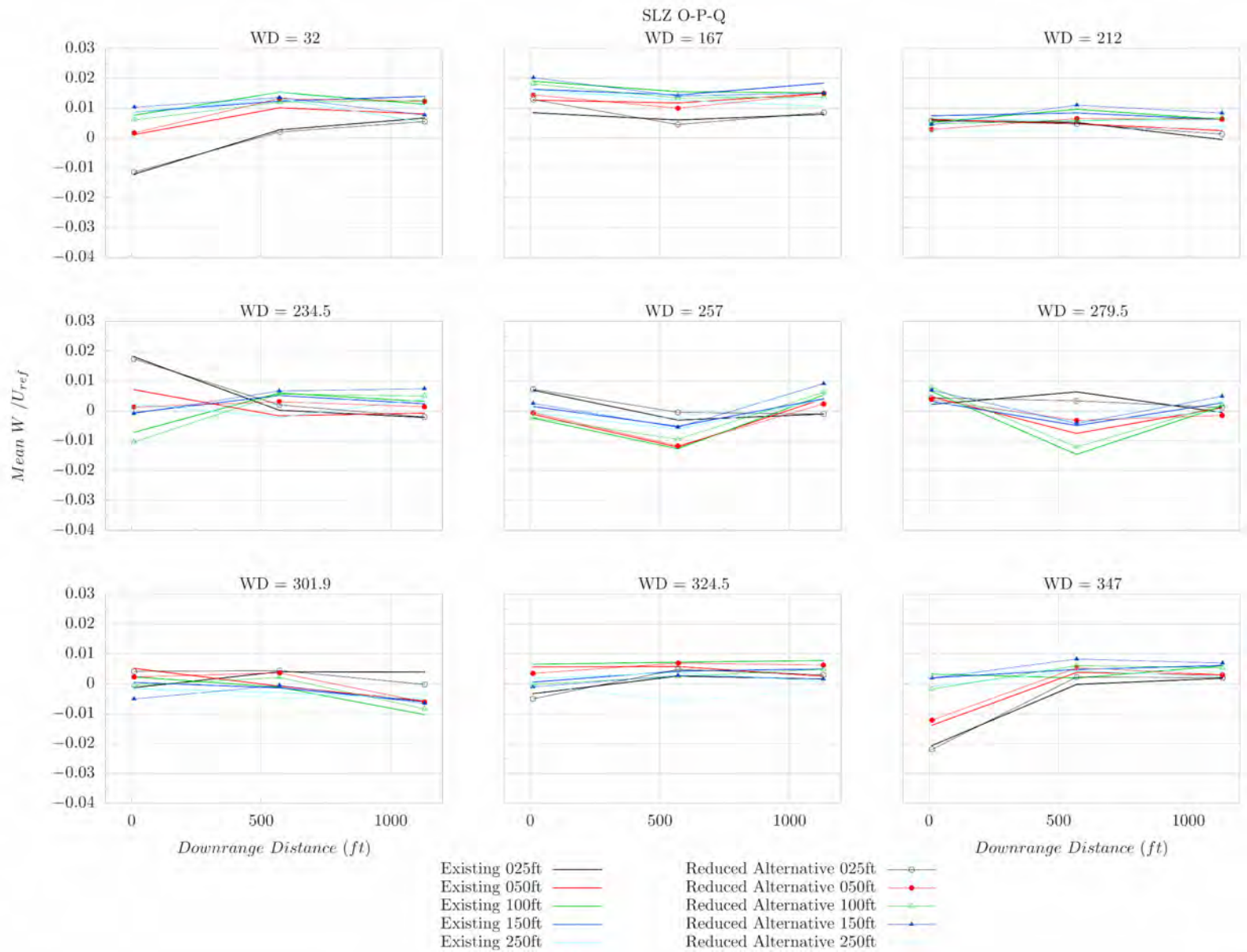


Figure C35: Existing and Reduced Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

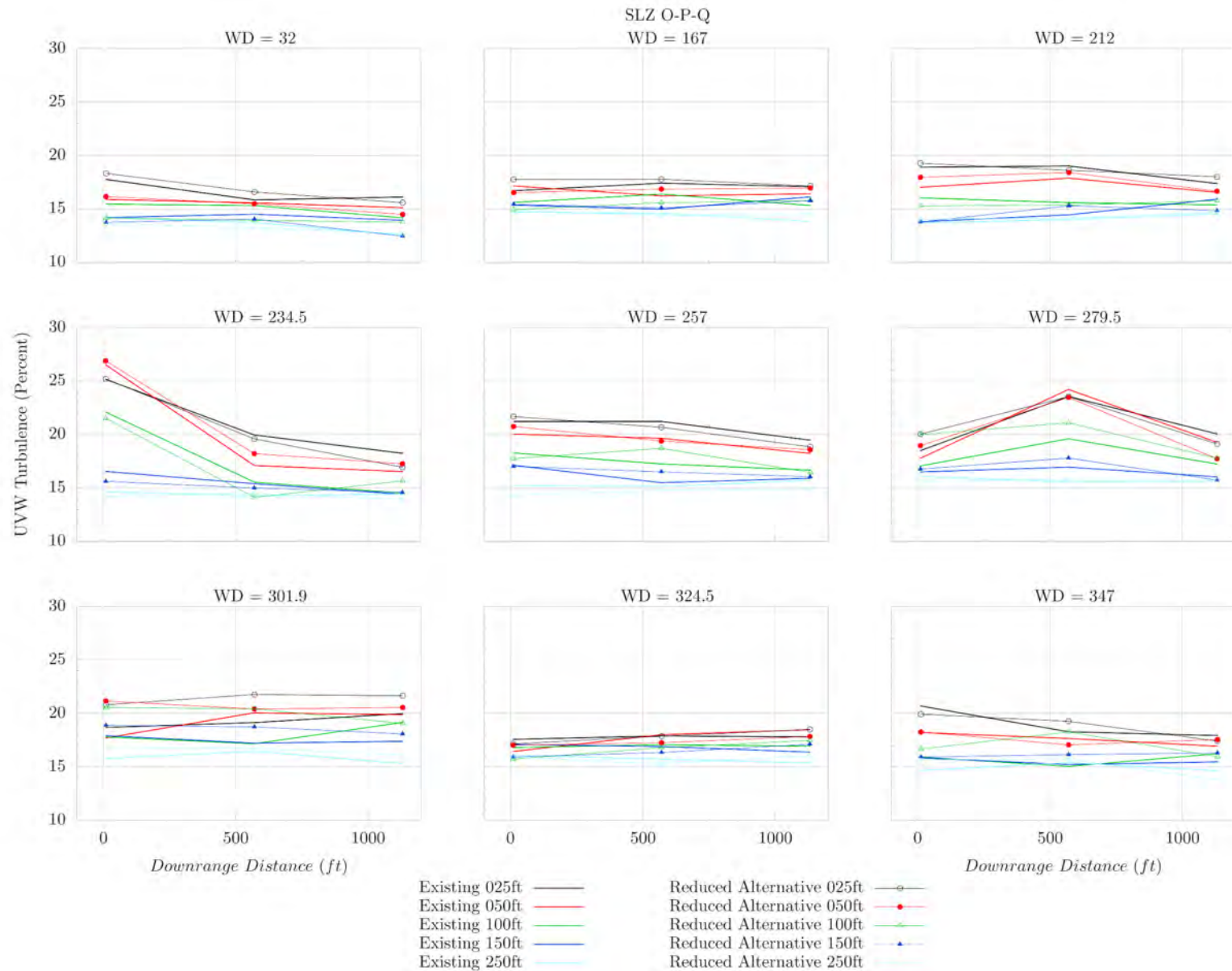


Figure C36: Existing and Reduced Alternative Configurations: Student landing zone lane 1 (Points O-Q): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

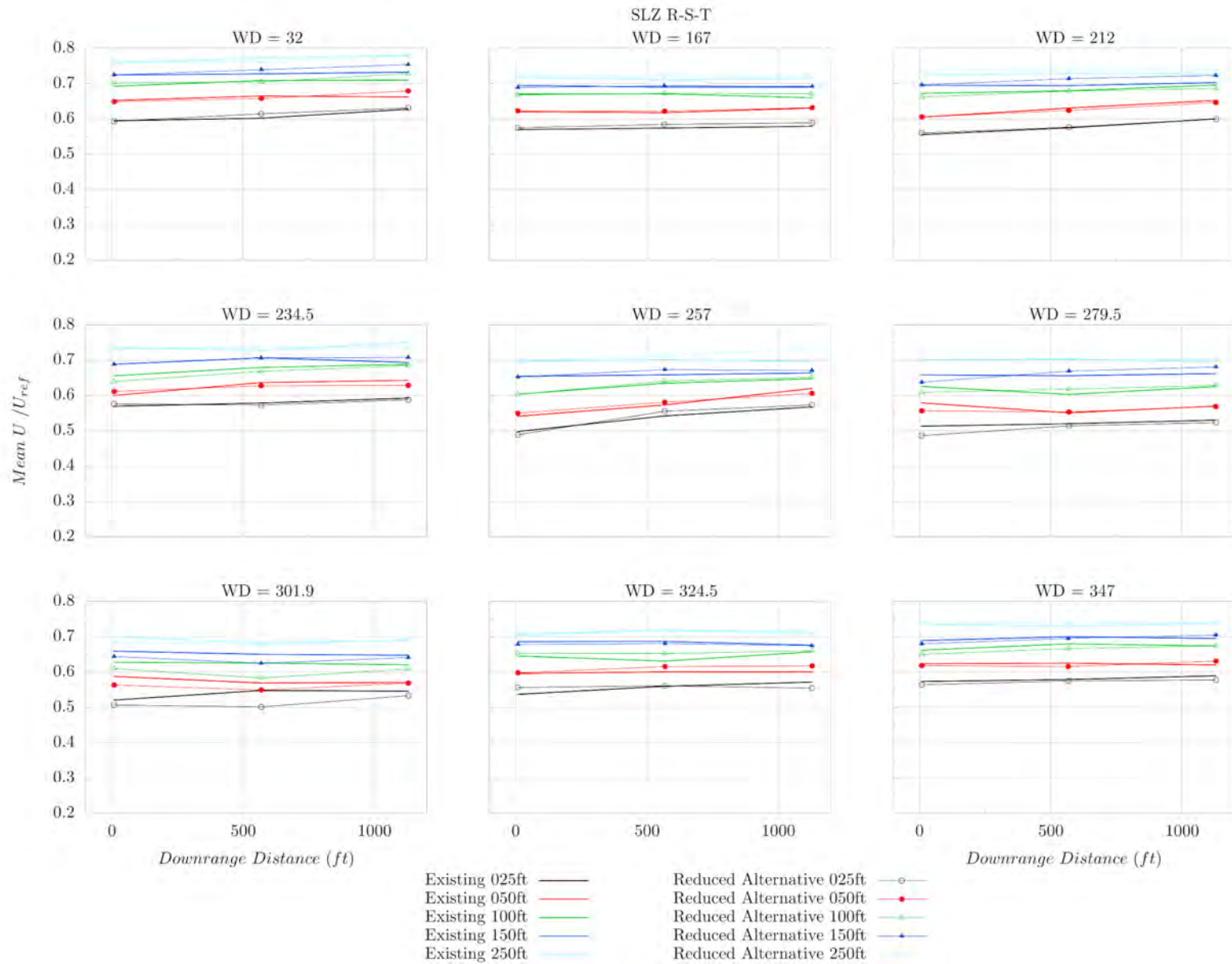


Figure C37: Existing and Reduced Alternative Configurations: Student landing zone lane 2 (Points R-T): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

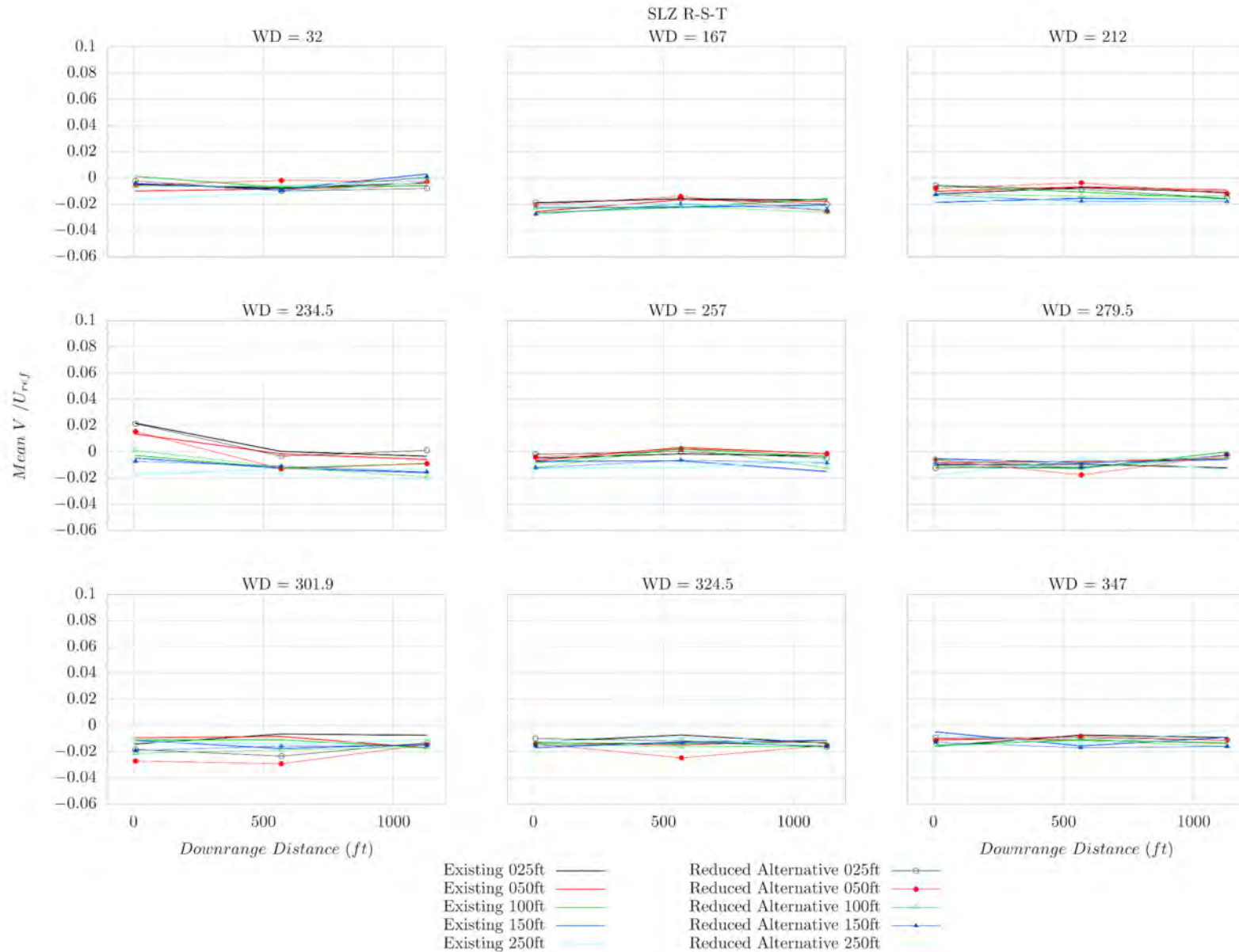


Figure C38: Existing and Reduced Alternative Configurations: Student landing zone lane 2 (Points R-T): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

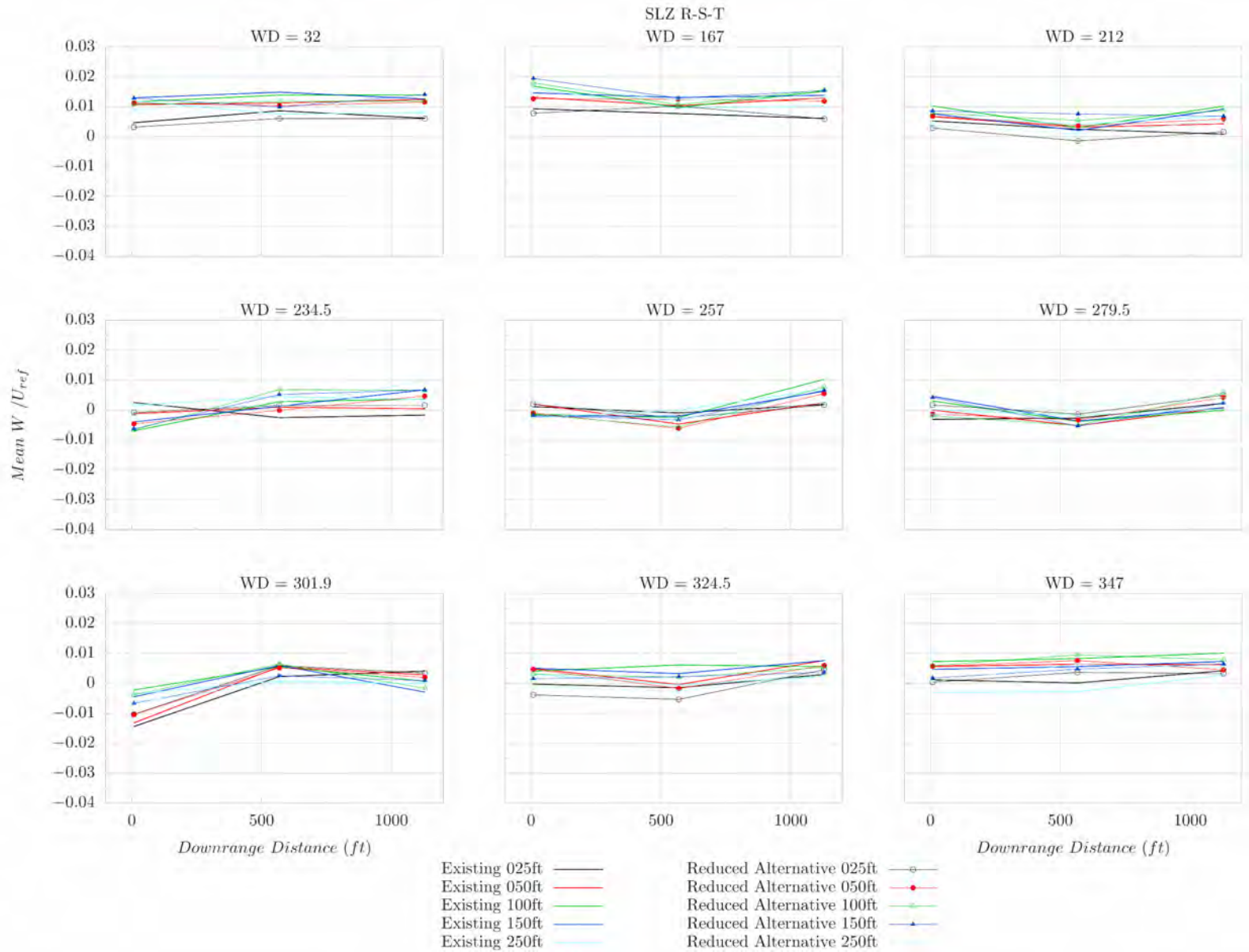


Figure C39: Existing and Reduced Alternative Configurations: Student landing zone lane 2 (Points R-T): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

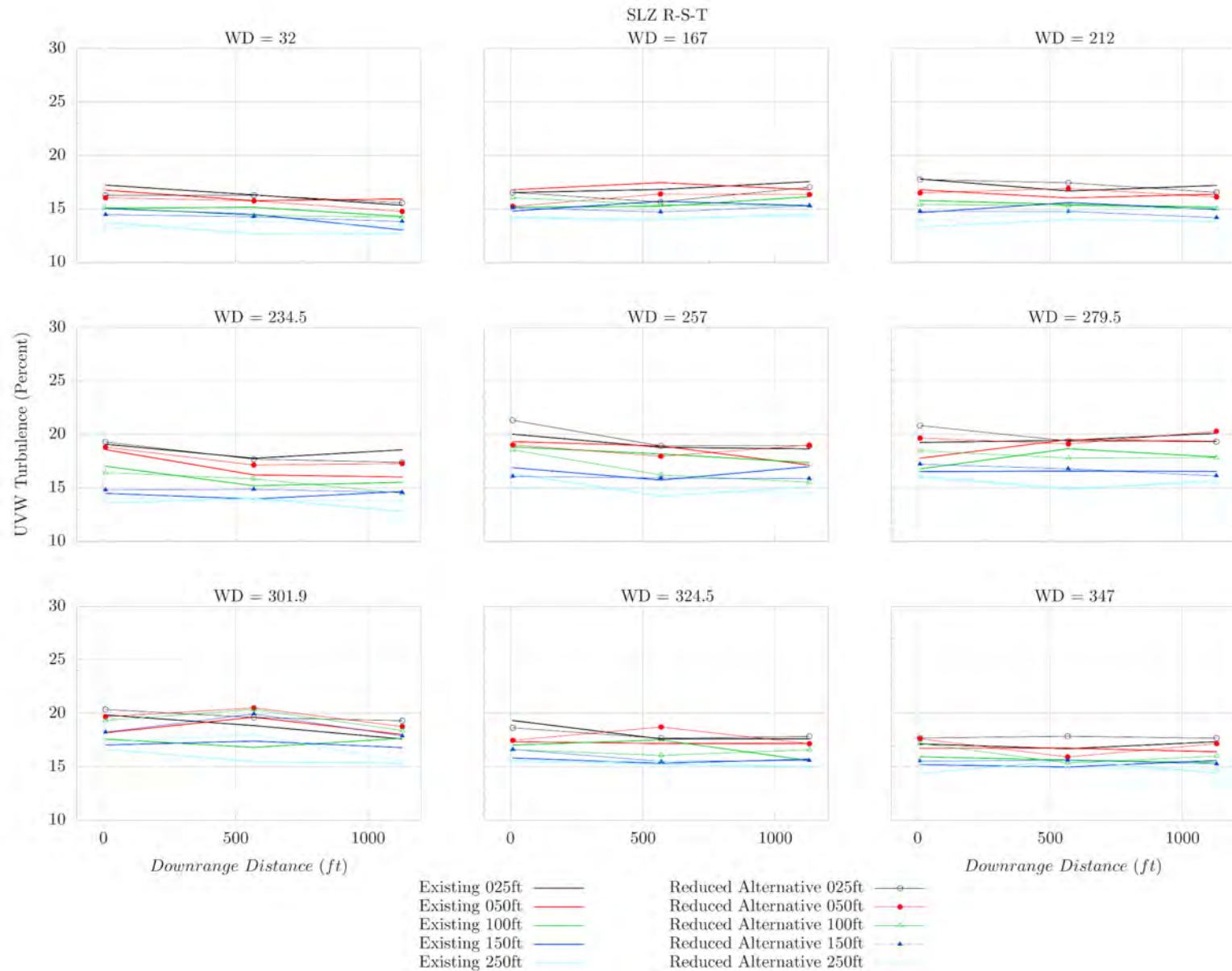


Figure C40: Existing and Reduced Alternative Configurations: Student landing zone lane 2 (Points R-T): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

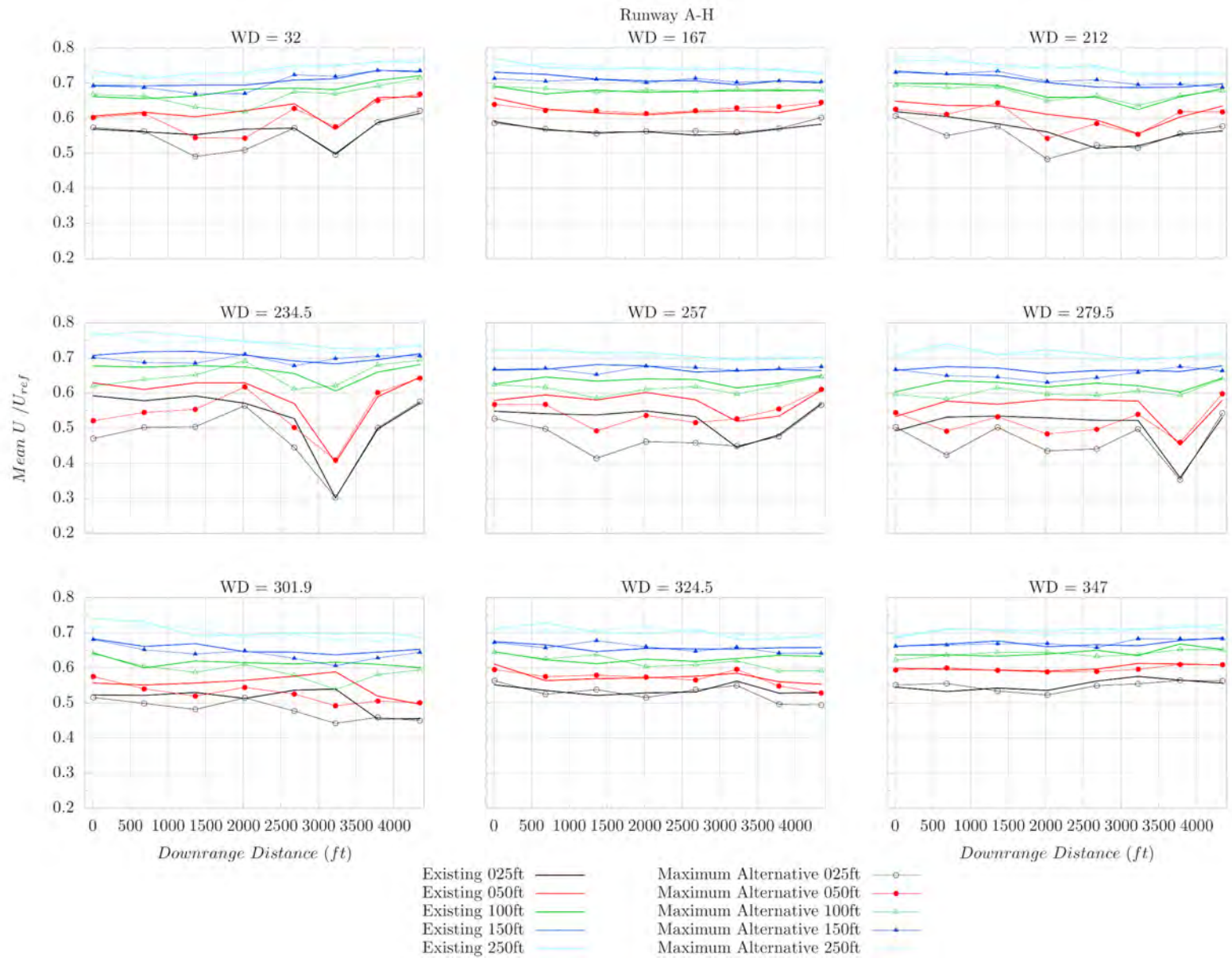


Figure C41: Existing and Maximum Alternative Configurations: Runway (Points A-H): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

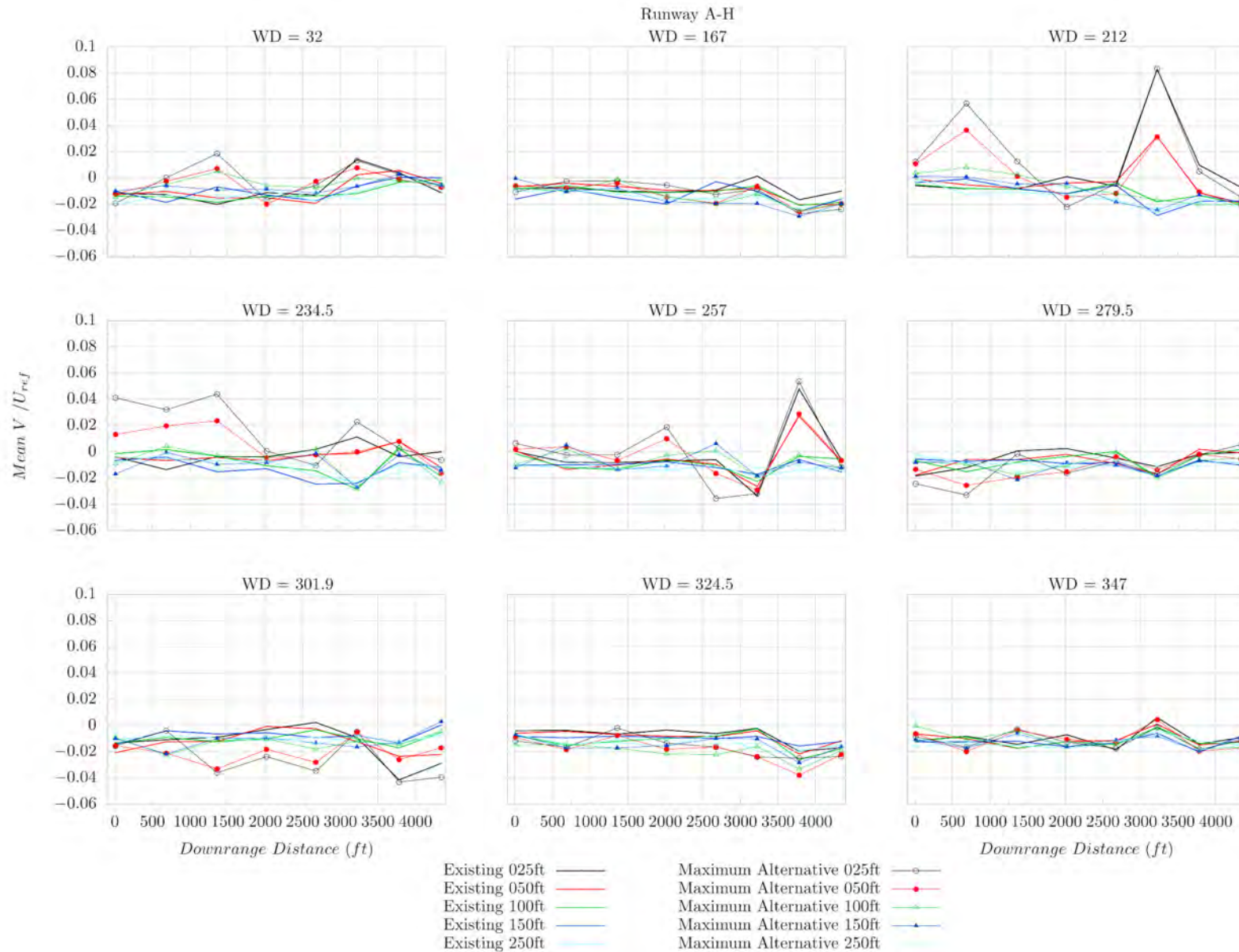


Figure C42: Existing and Maximum Alternative Configurations: Runway (Points A-H): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

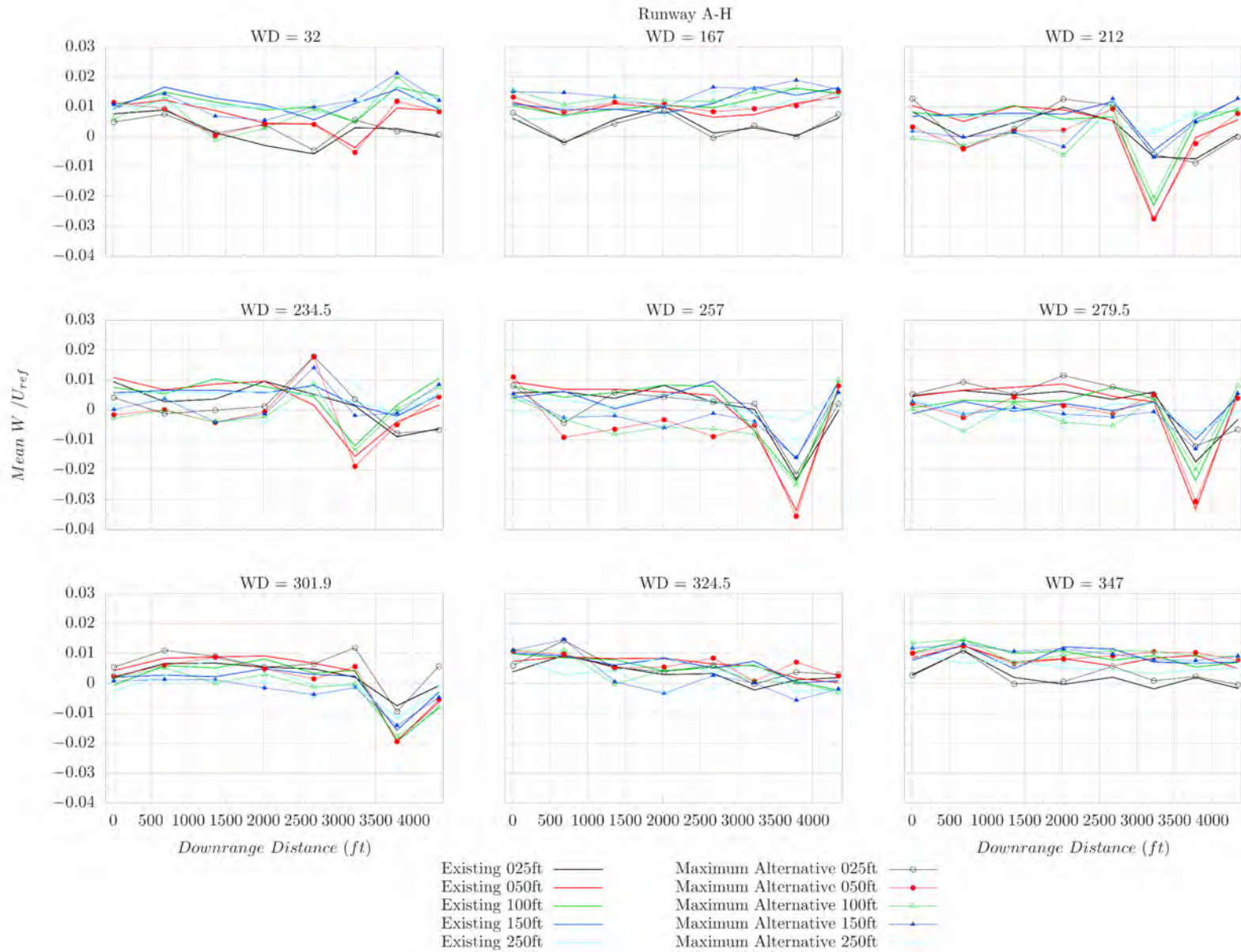


Figure C43: Existing and Maximum Alternative Configurations: Runway (Points A-H): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

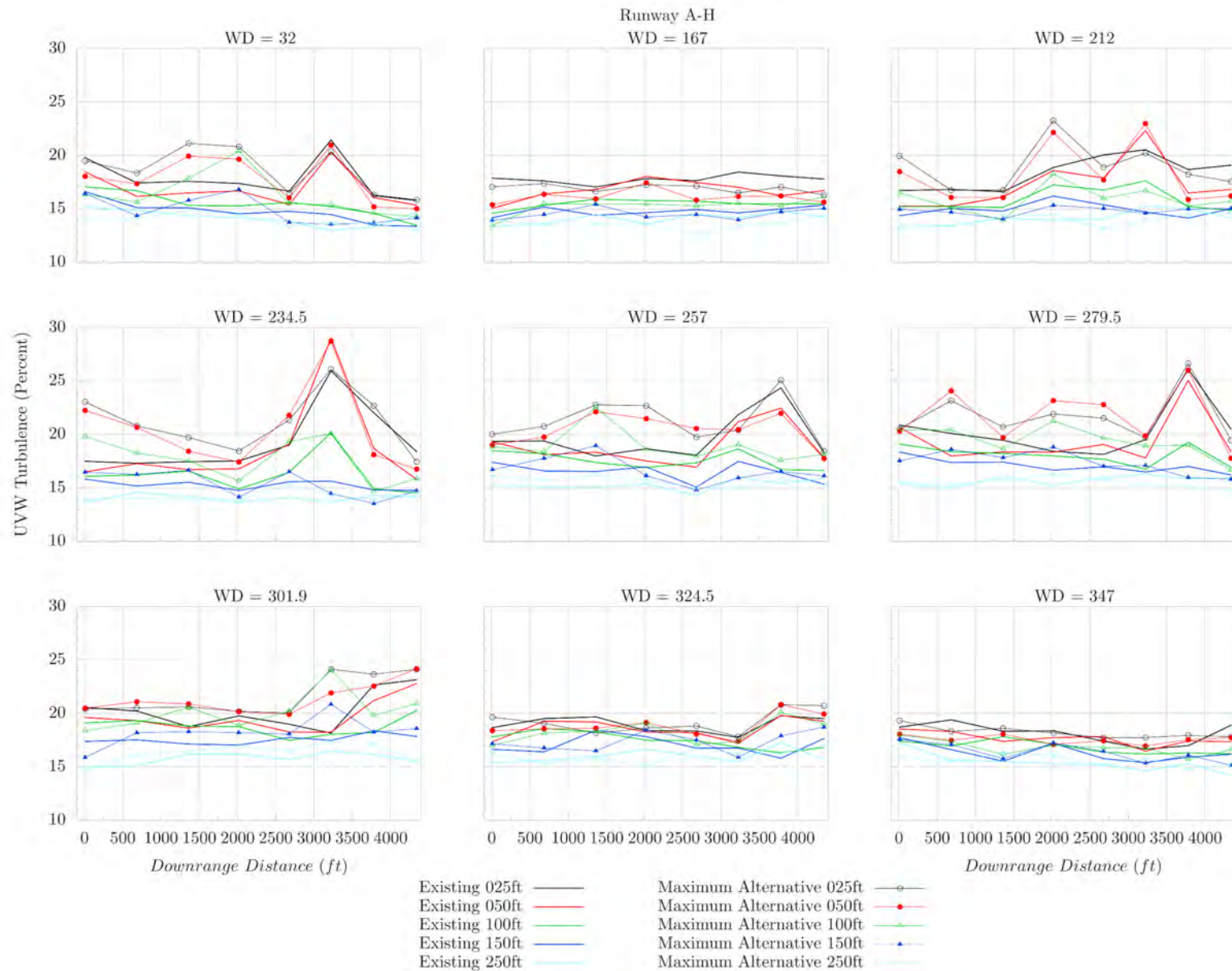


Figure C44: Existing and Maximum Alternative Configurations: Runway (Points A-H): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

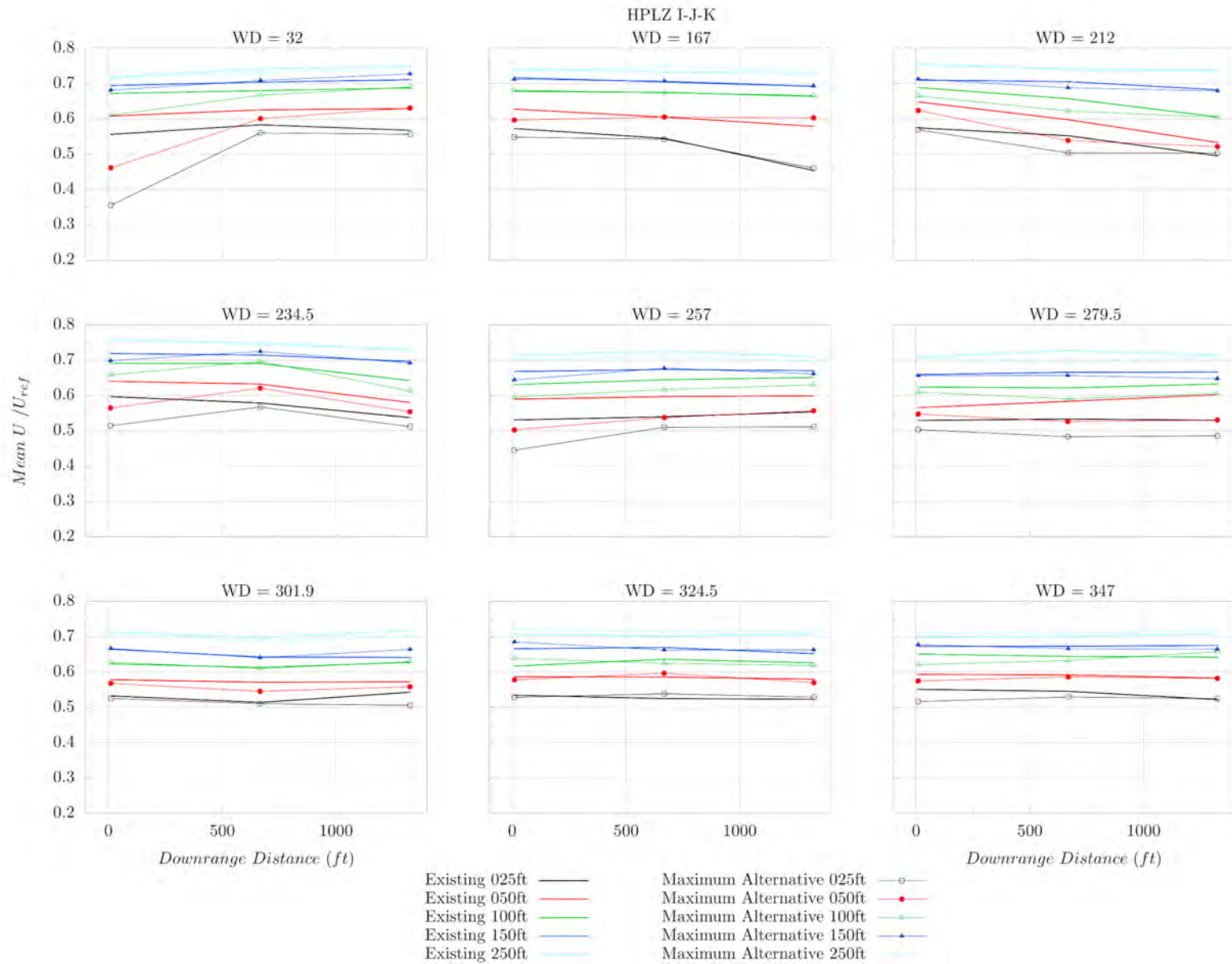


Figure C45: Existing and Maximum Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

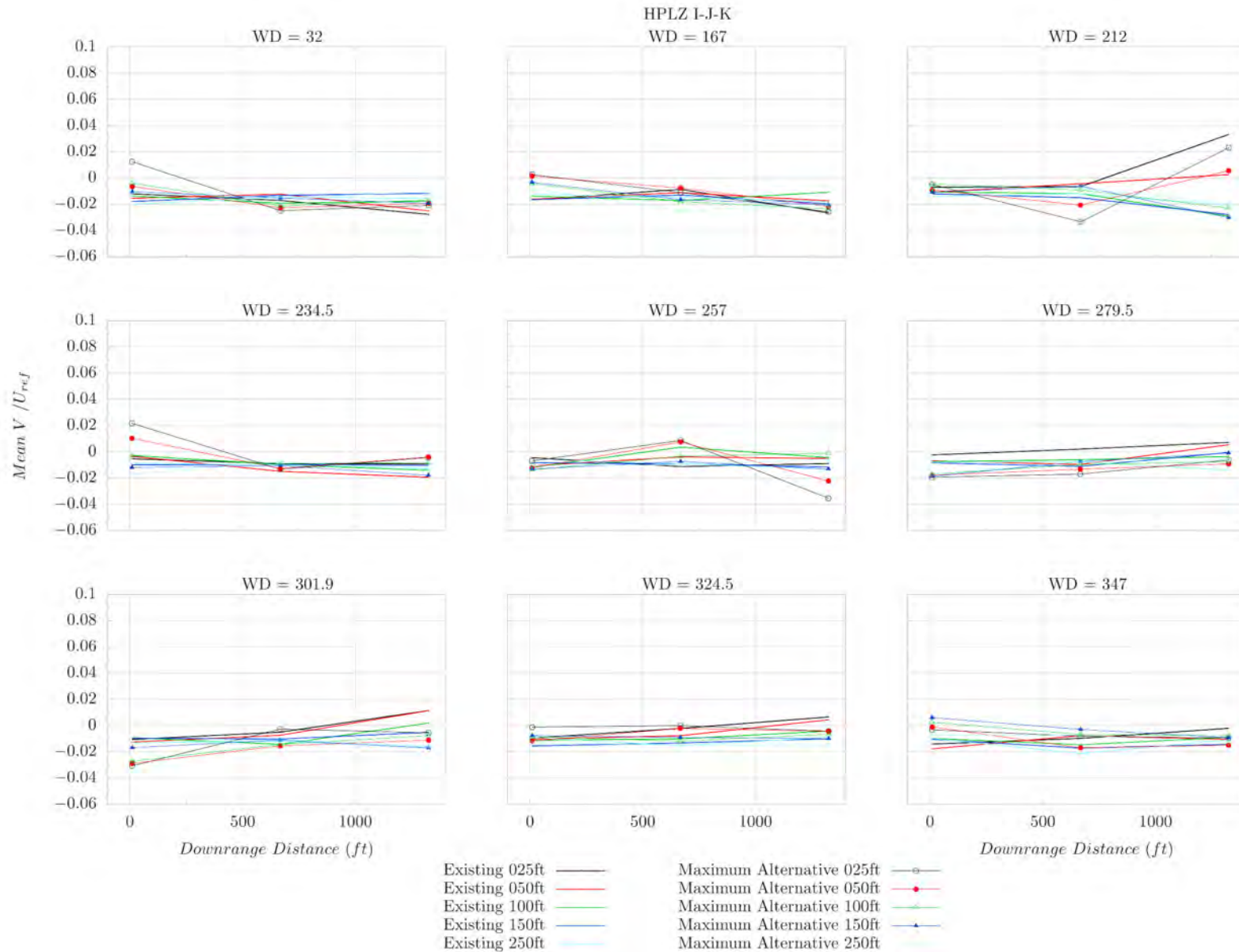


Figure C46: Existing and Maximum Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

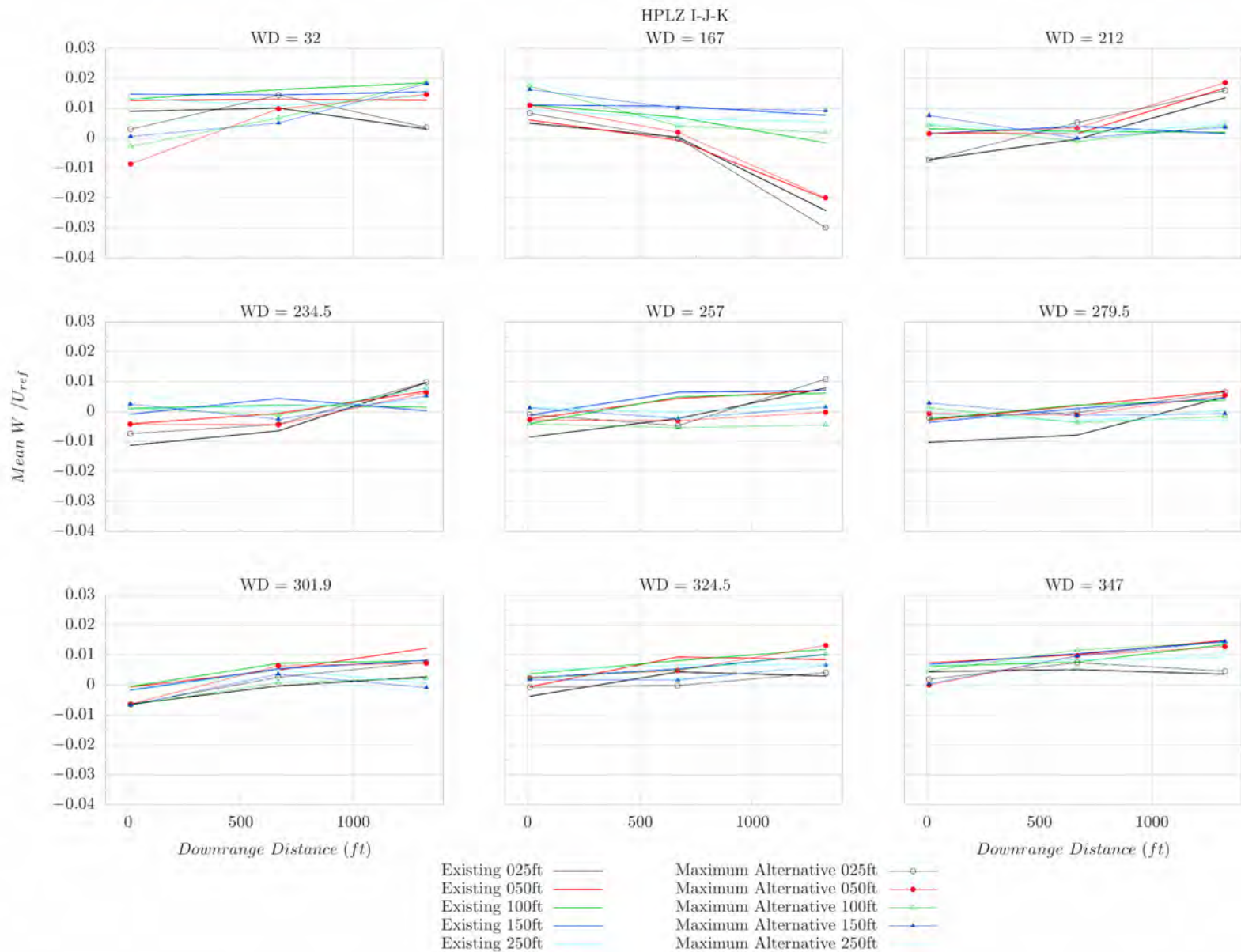


Figure C47: Existing and Maximum Alternative Configurations: High-performance landing zone lane 1 (Points I-K): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

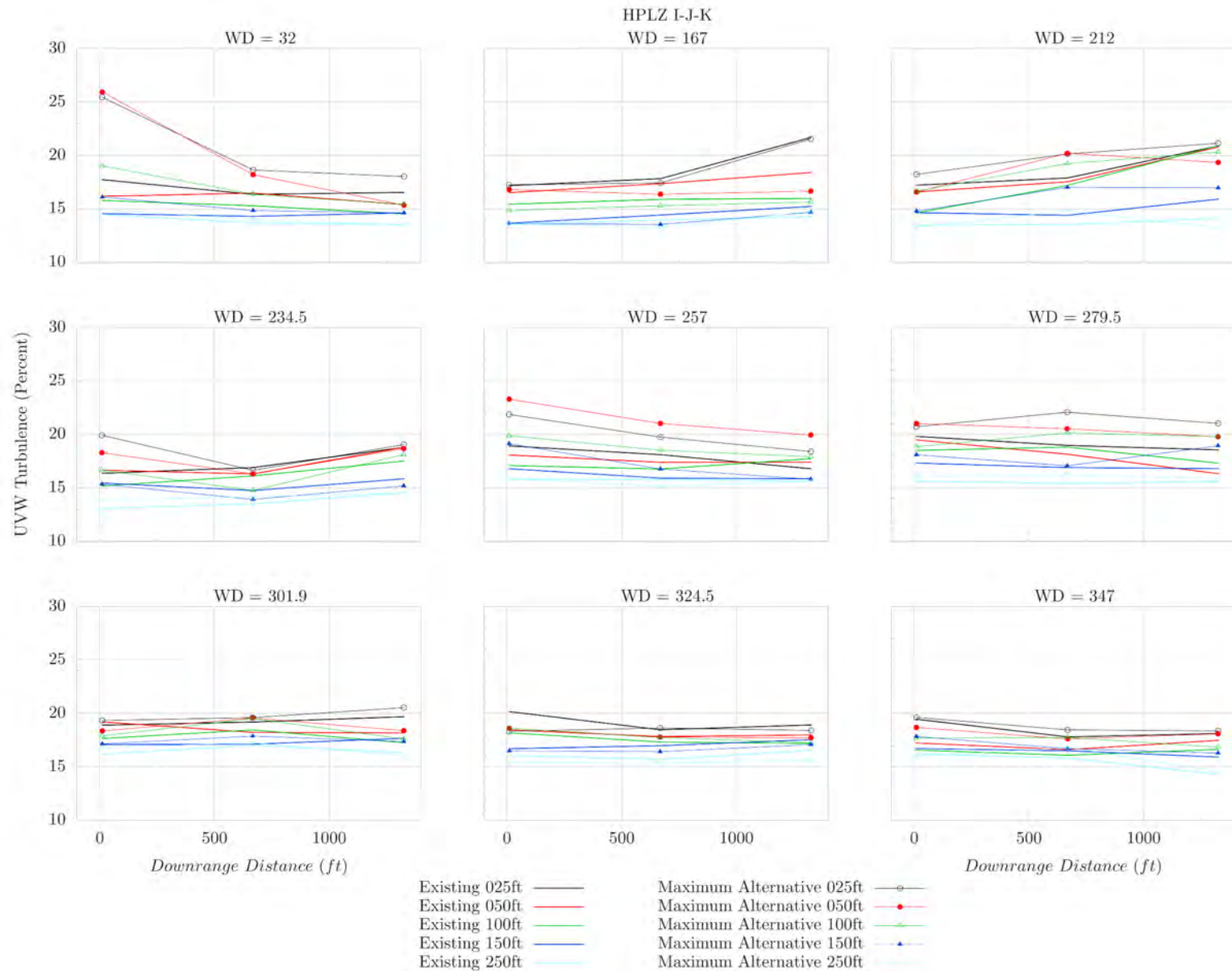


Figure C48: Existing and Maximum Alternative Configurations: High-performance landing zone lane 1 (Points I-K): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

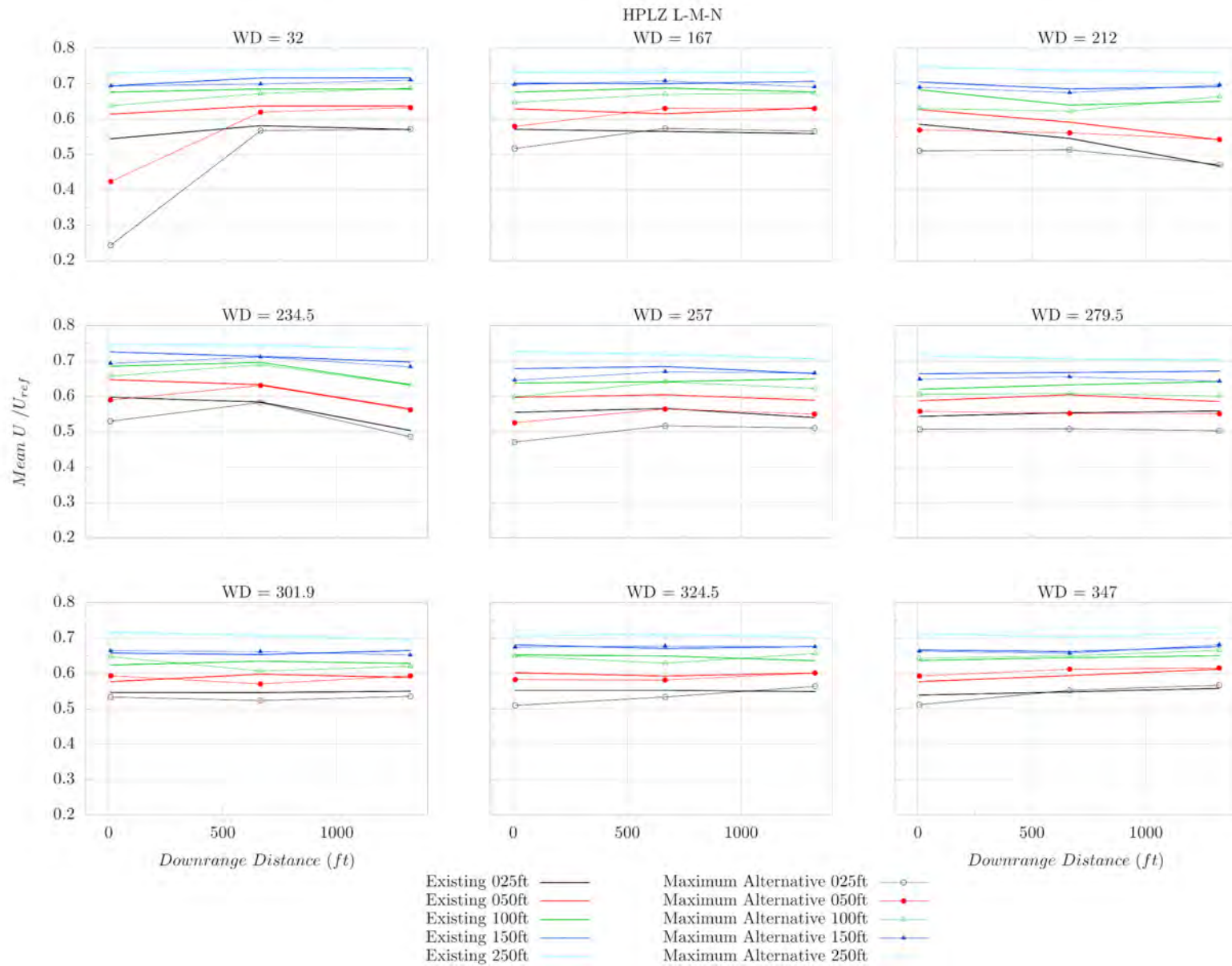


Figure C49: Existing and Maximum Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

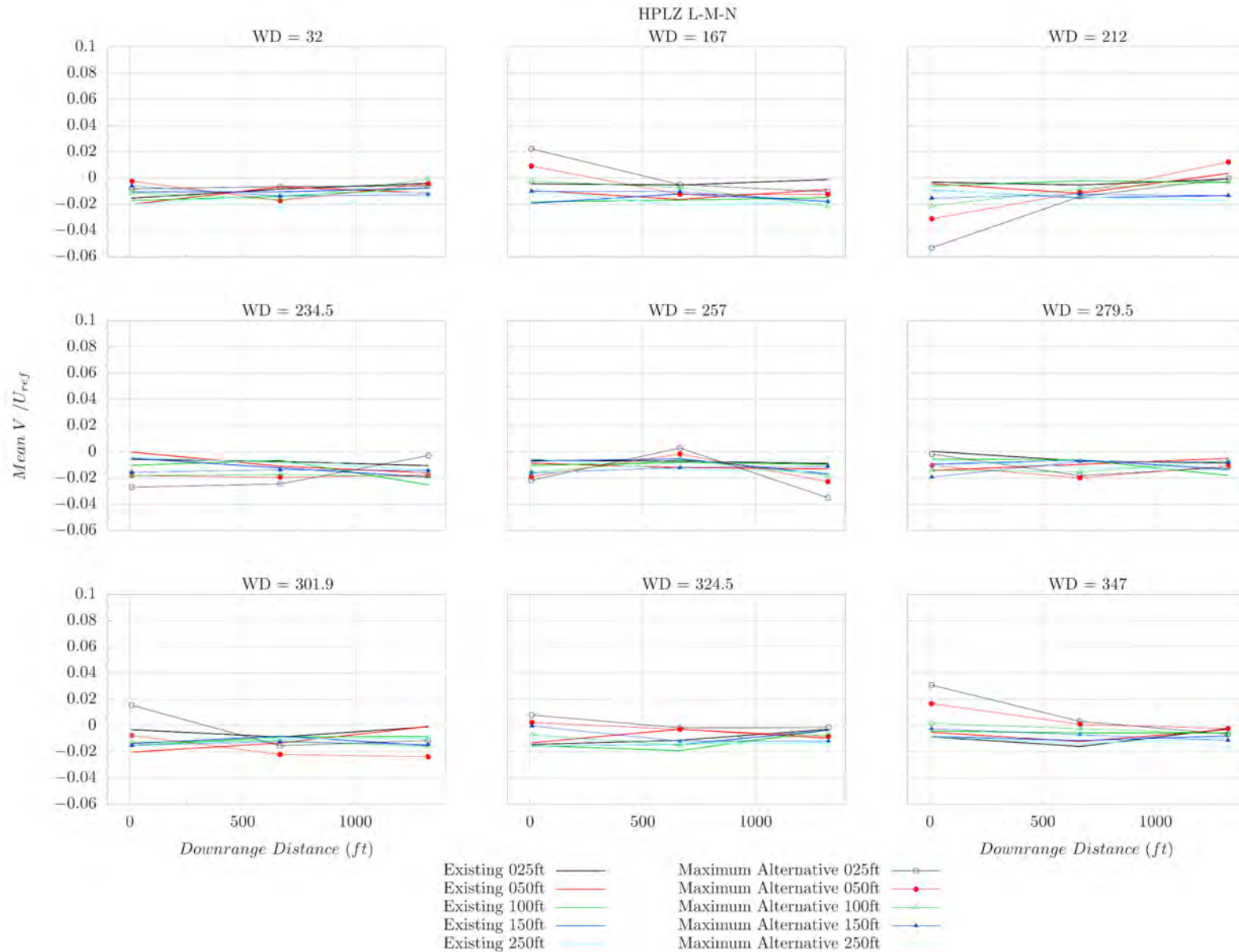


Figure C50: Existing and Maximum Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

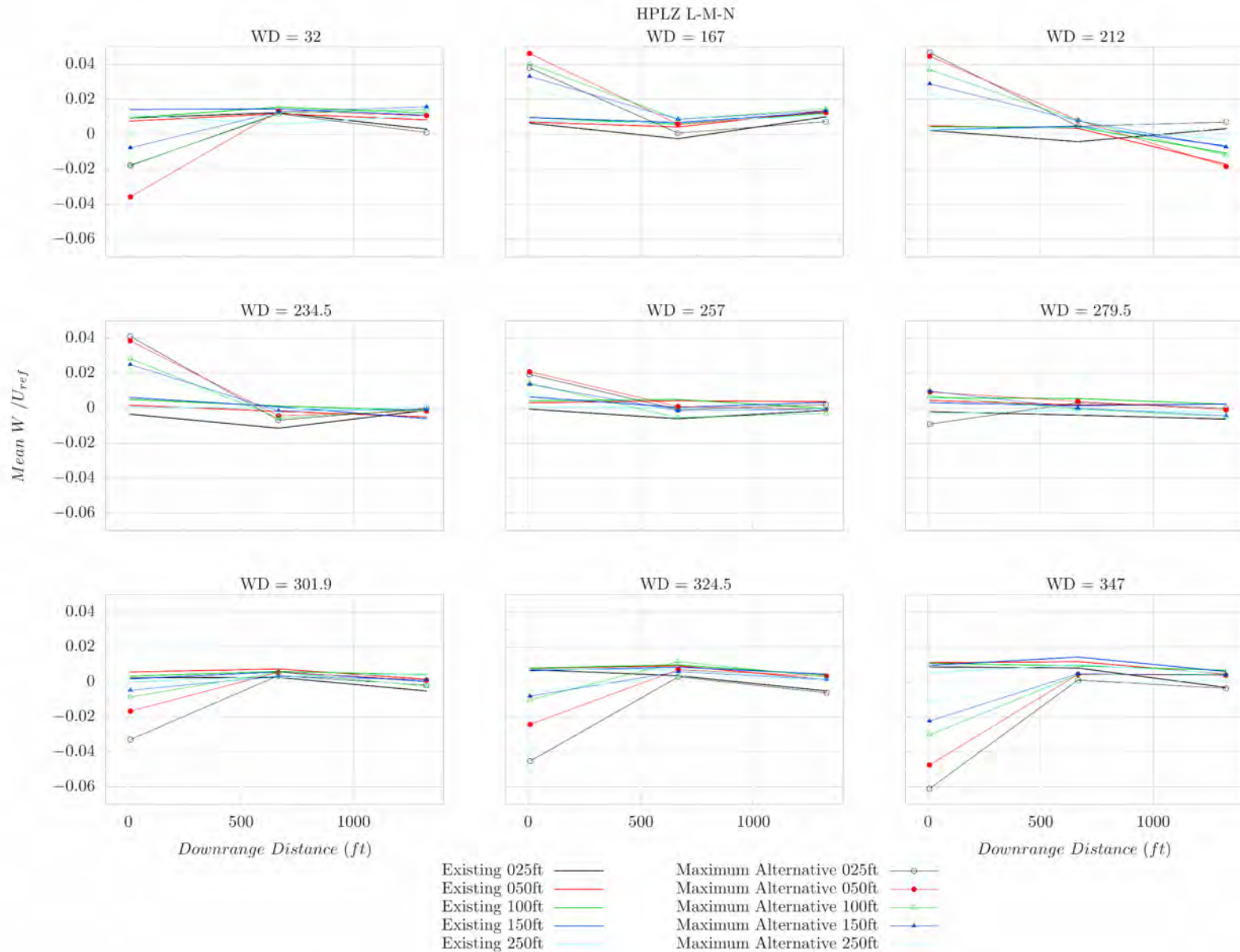


Figure C51: Existing and Maximum Alternative Configurations: High-performance landing zone lane 2 (Points L-N): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

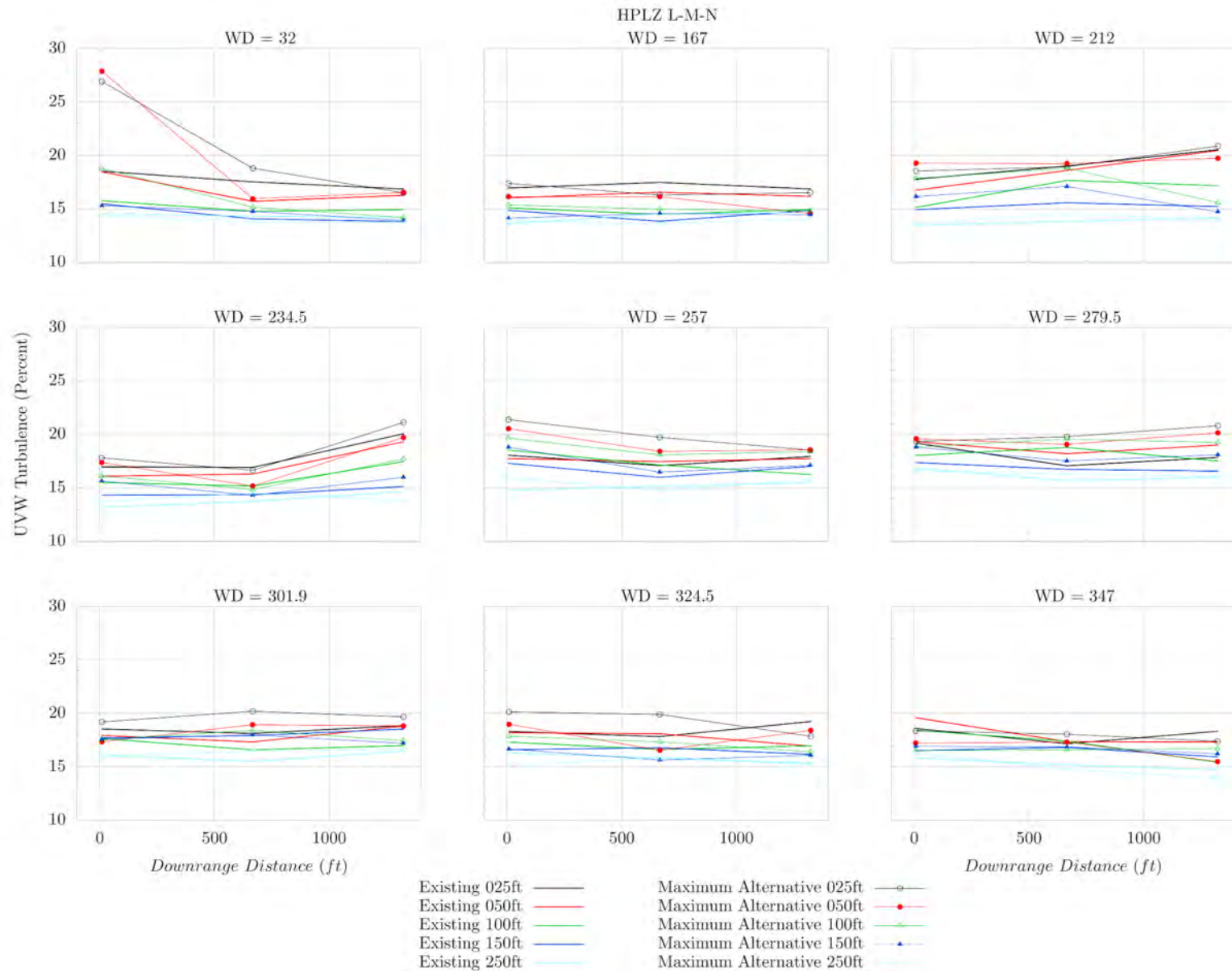


Figure C52: Existing and Maximum Alternative Configurations: High-performance landing zone lane 2 (Points L-N): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

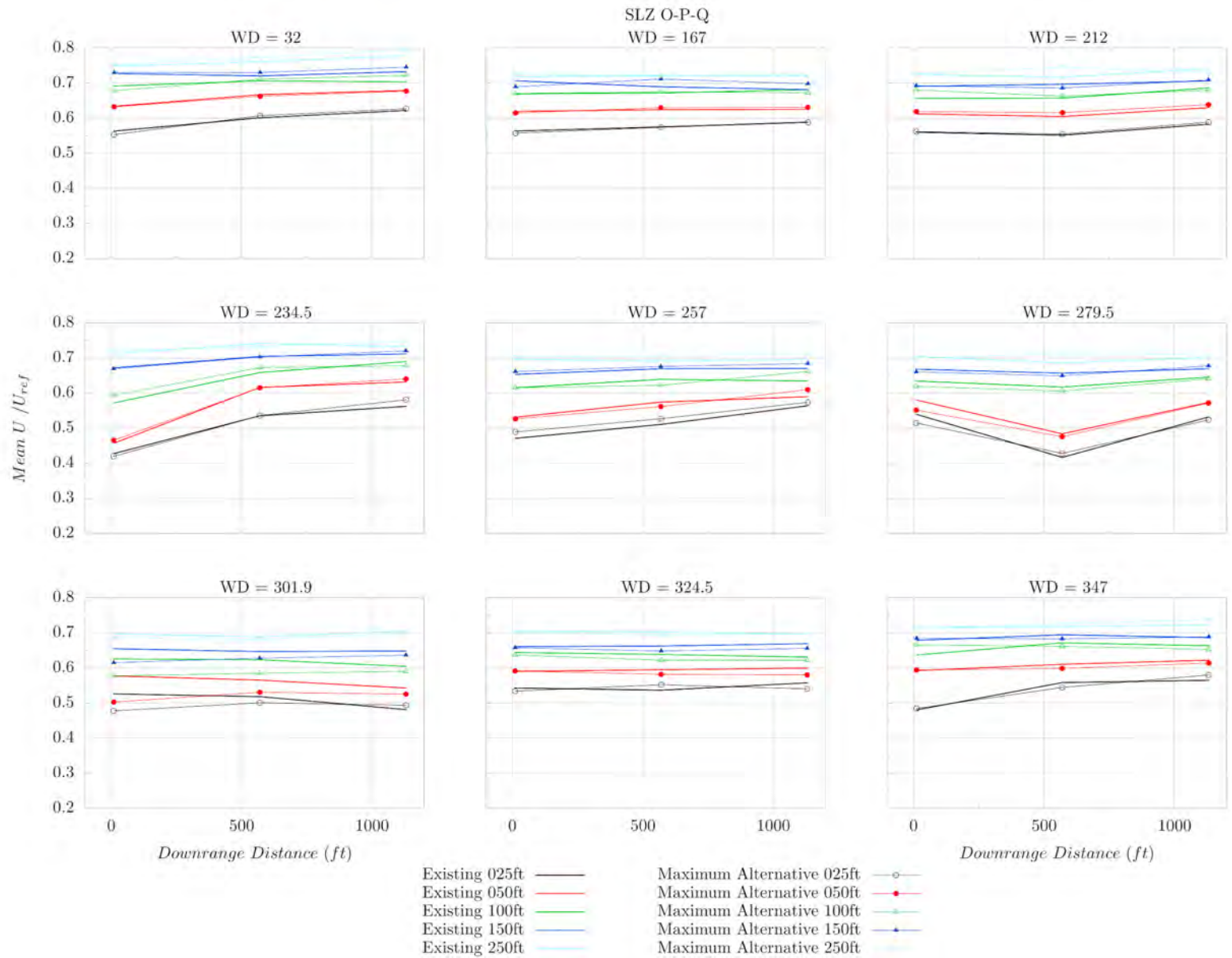


Figure C53: Existing and Maximum Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

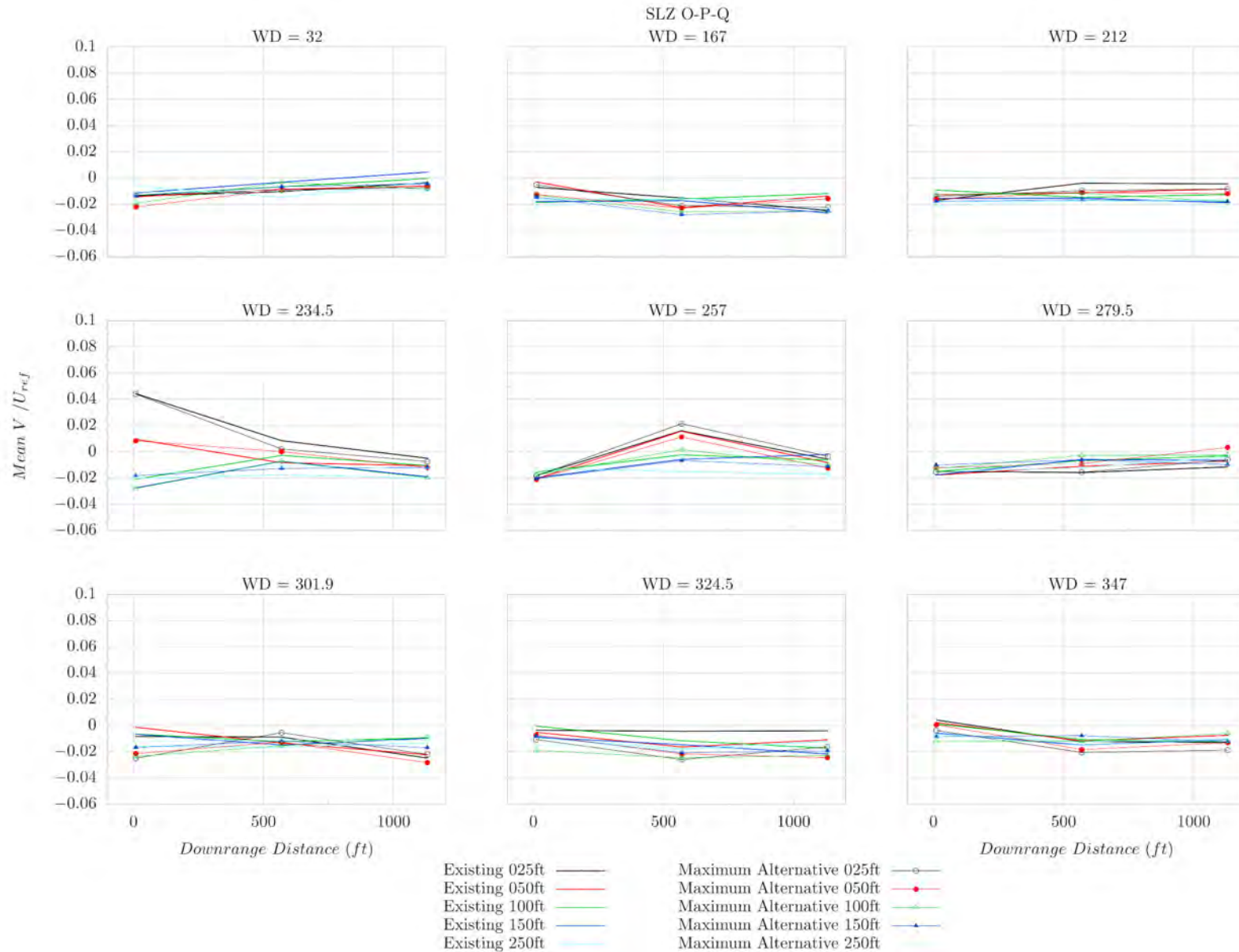


Figure C54: Existing and Maximum Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

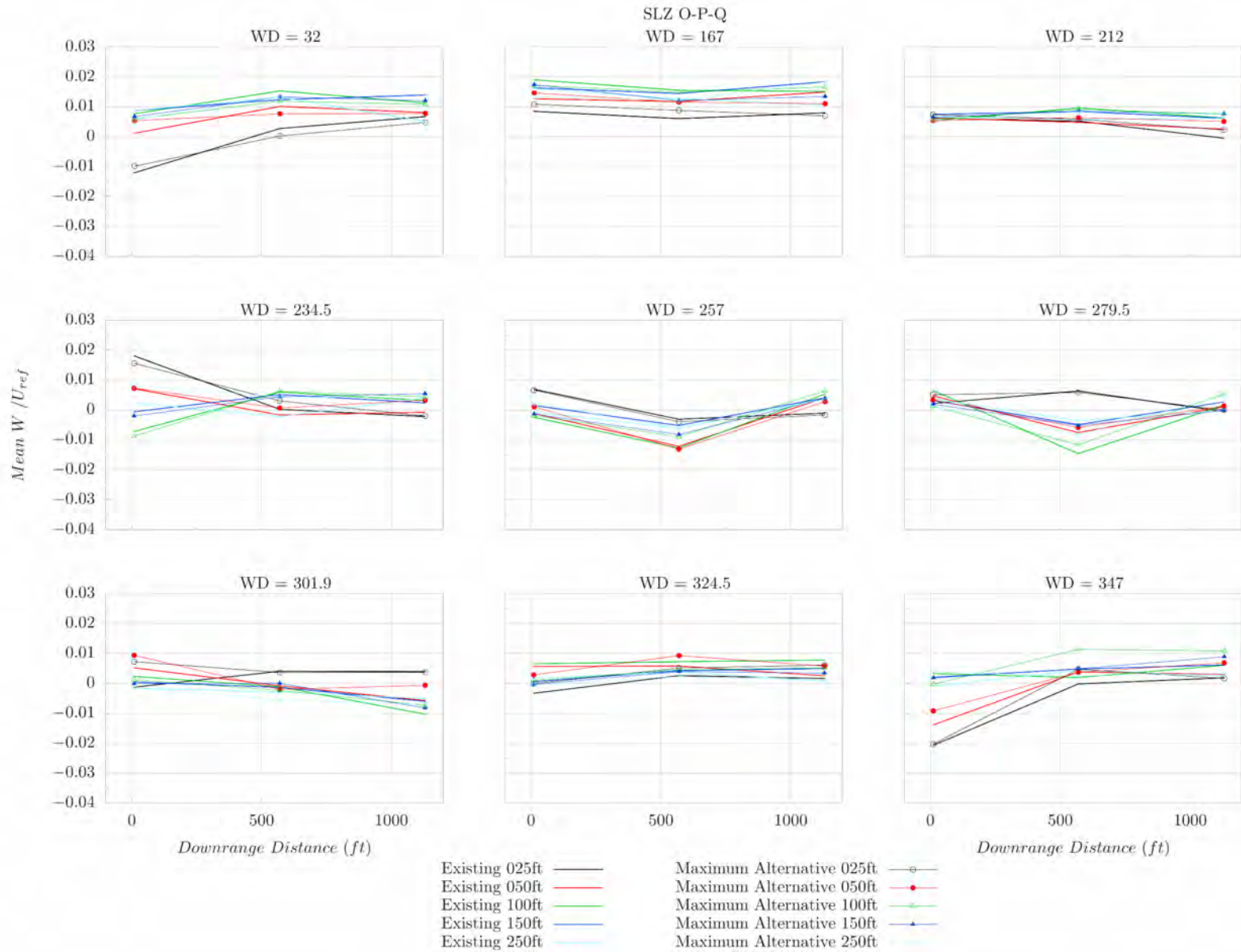


Figure C55: Existing and Maximum Alternative Configurations: Student landing zone lane 1 (Points O-Q): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

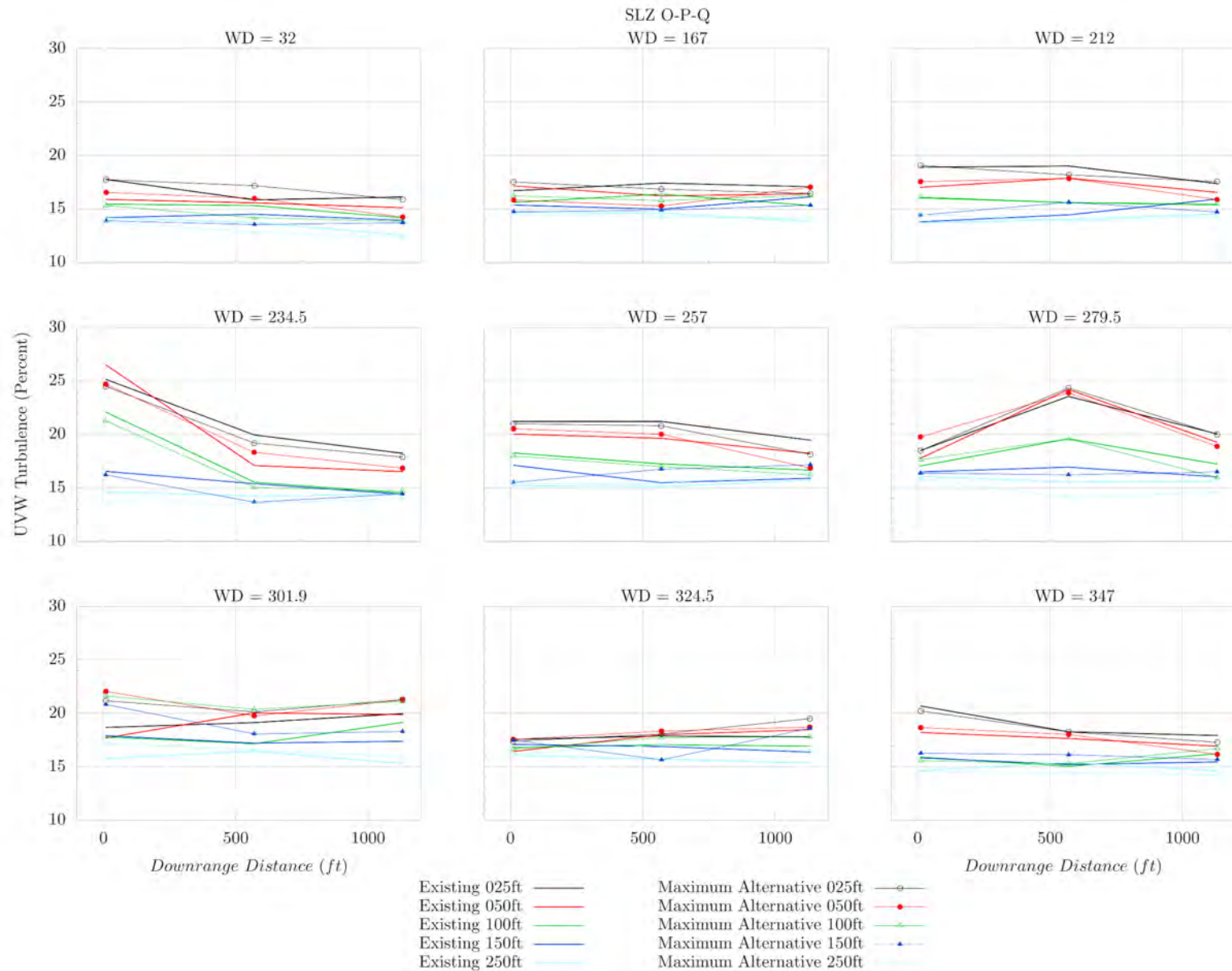


Figure C56: Existing and Maximum Alternative Configurations: Student landing zone lane 1 (Points O-Q): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).

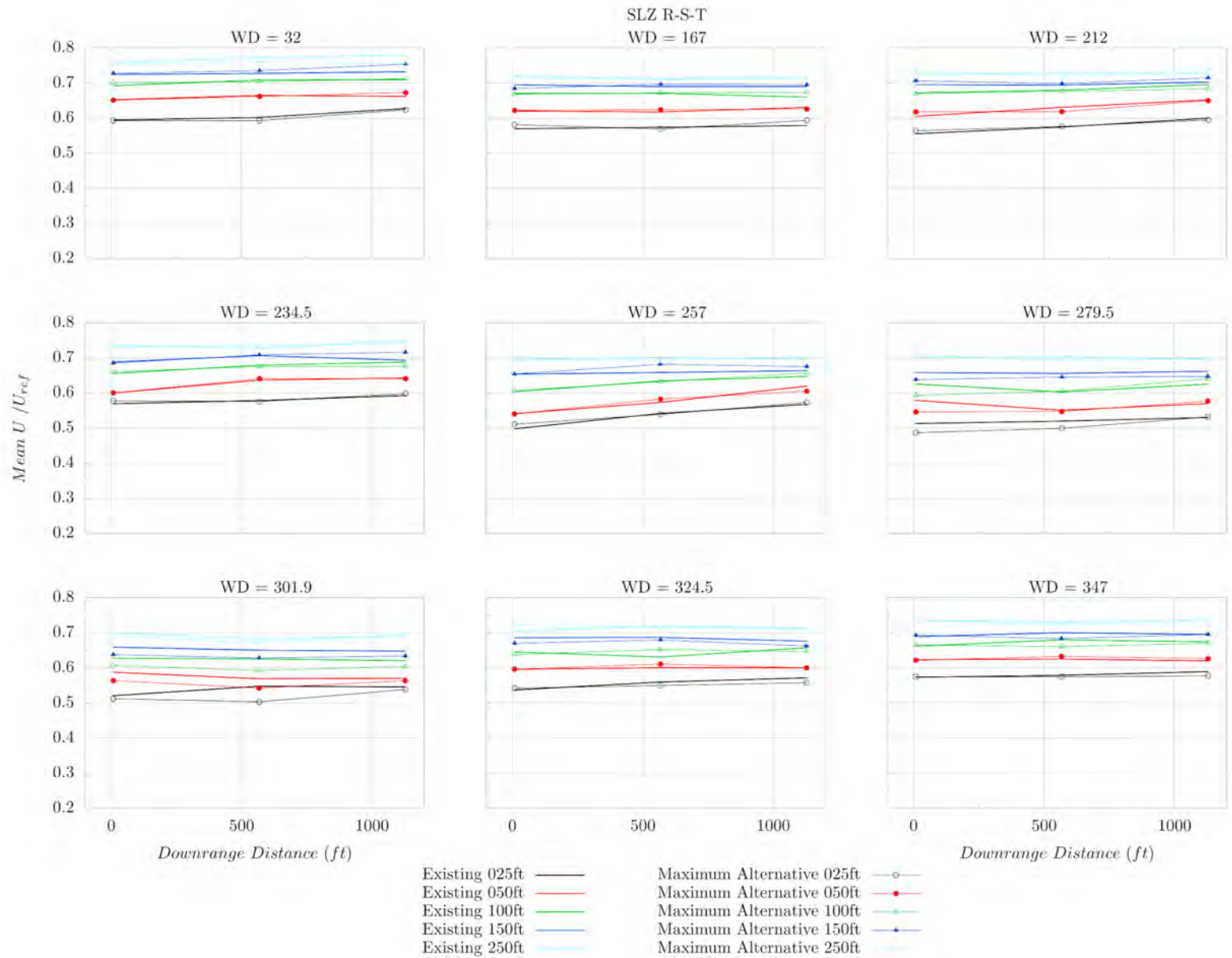


Figure C57: Existing and Maximum Alternative Configurations: Student landing zone lane 2 (Points R-T): mean along-wind (U) component of velocity normalized by reference wind speed U_{ref} .

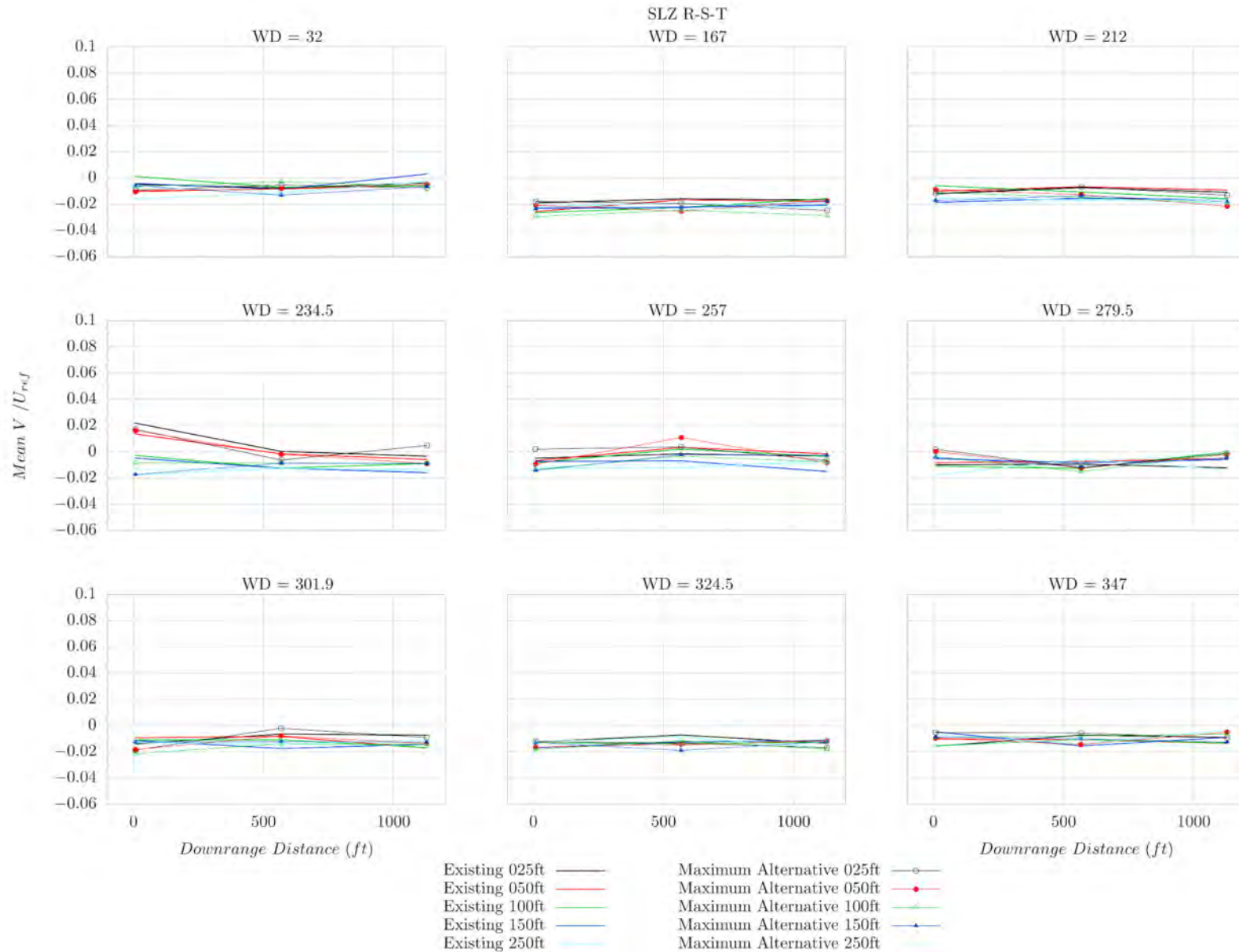


Figure C58: Existing and Maximum Alternative Configurations: Student landing zone lane 2 (Points R-T): mean cross-wind (V) component of velocity normalized by reference wind speed U_{ref} .

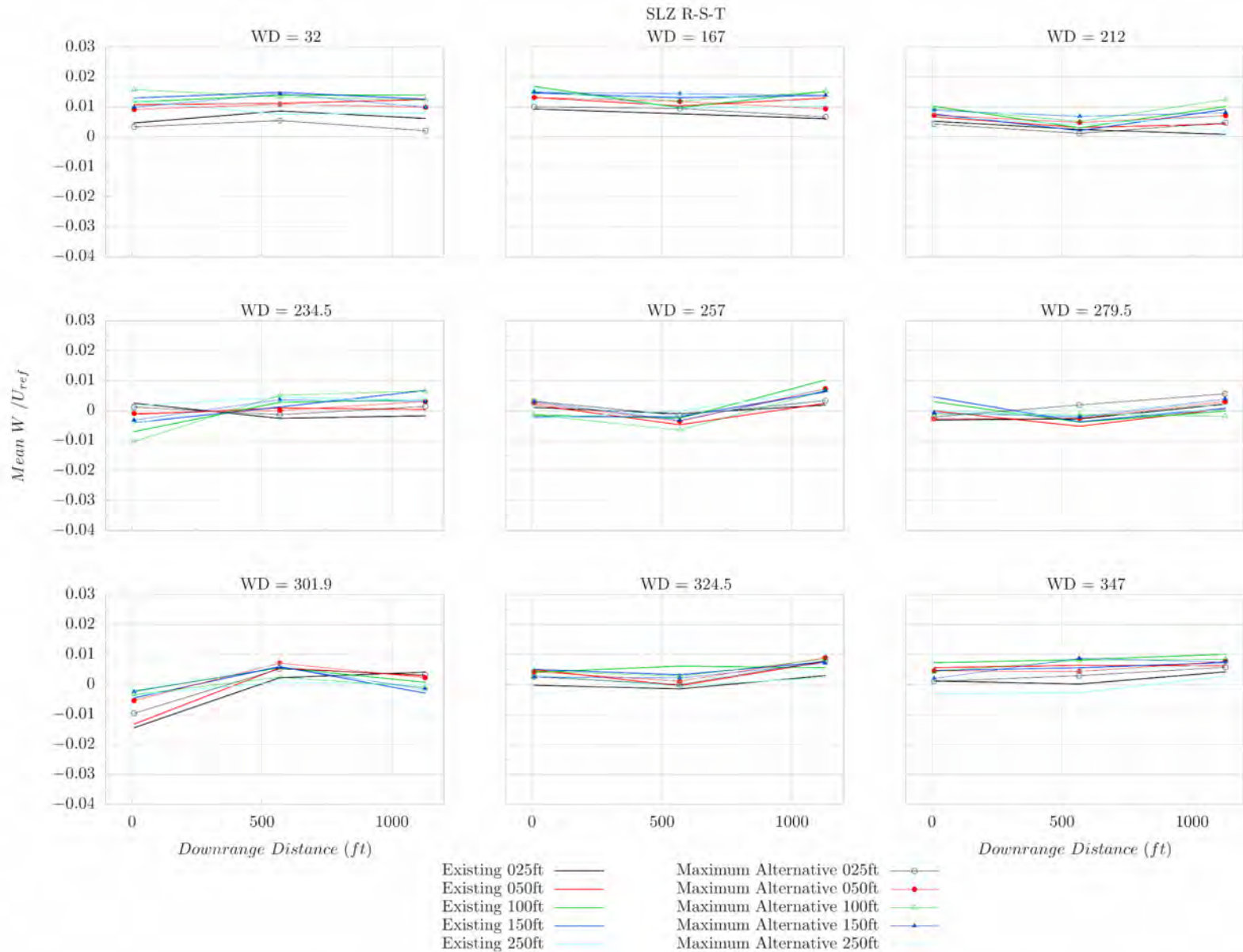


Figure C59: Existing and Maximum Alternative Configurations: Student landing zone lane 2 (Points R-T): mean vertical (W) component of velocity normalized by reference wind speed U_{ref} .

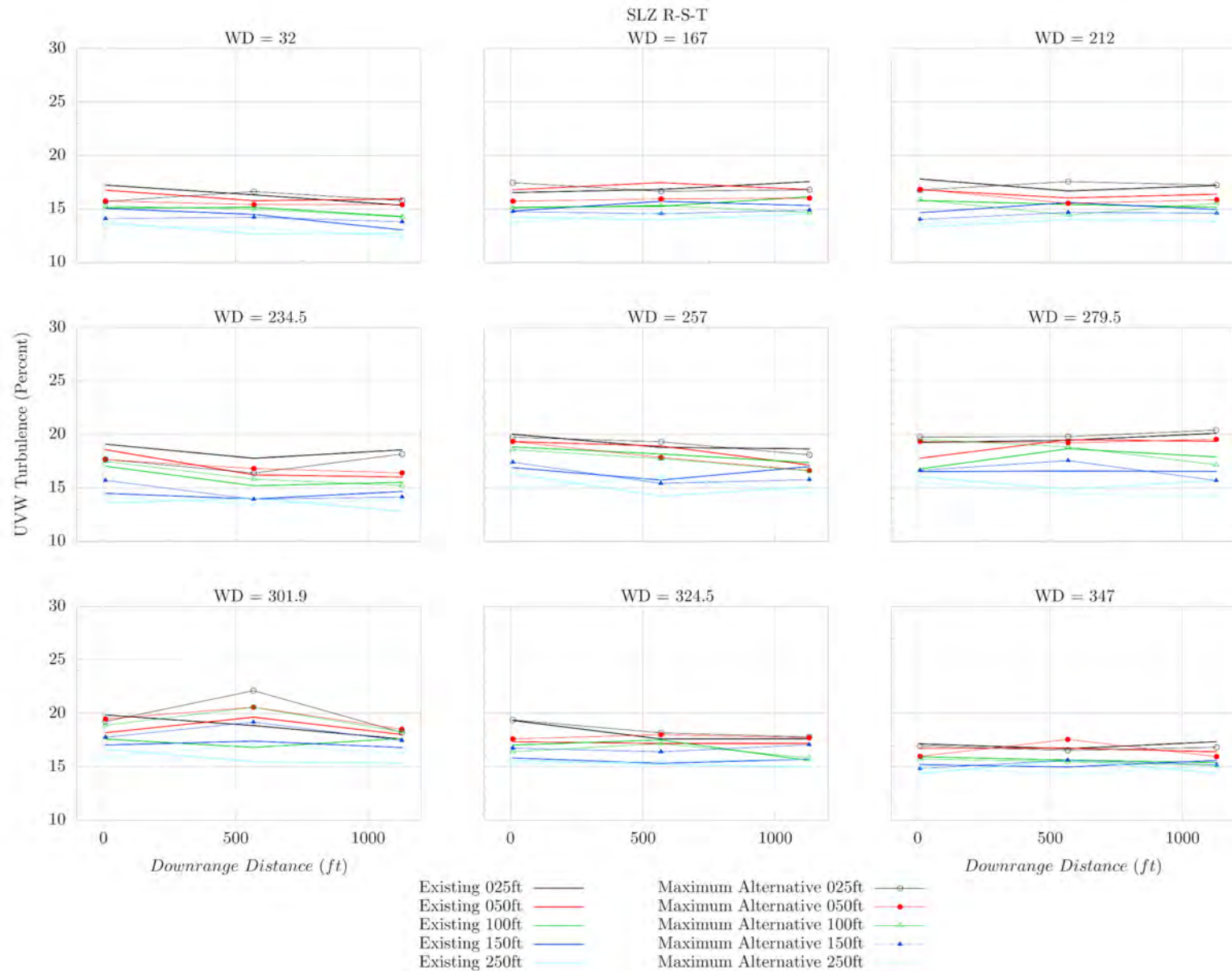


Figure C60: Existing and Maximum Alternative Configurations: Student landing zone lane 2 (Points R-T): UVW-component of turbulence intensity normalized by the resultant mean wind speed ($|UVW|$).