

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P177334

Luminaire Tested: **VAL-F02-LED-E-U-WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F02-LED-E-U-WQ-7050
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5238.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

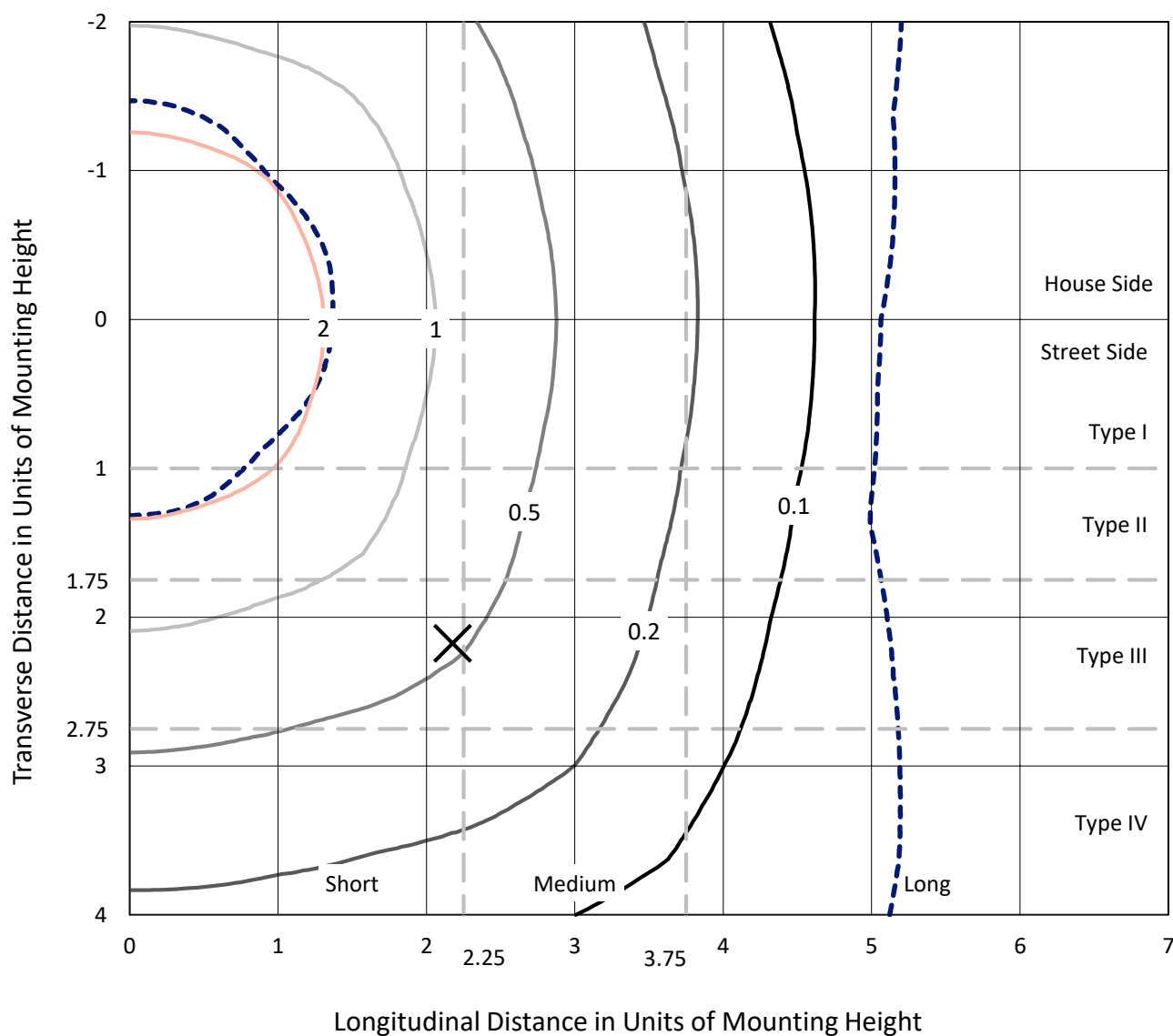


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

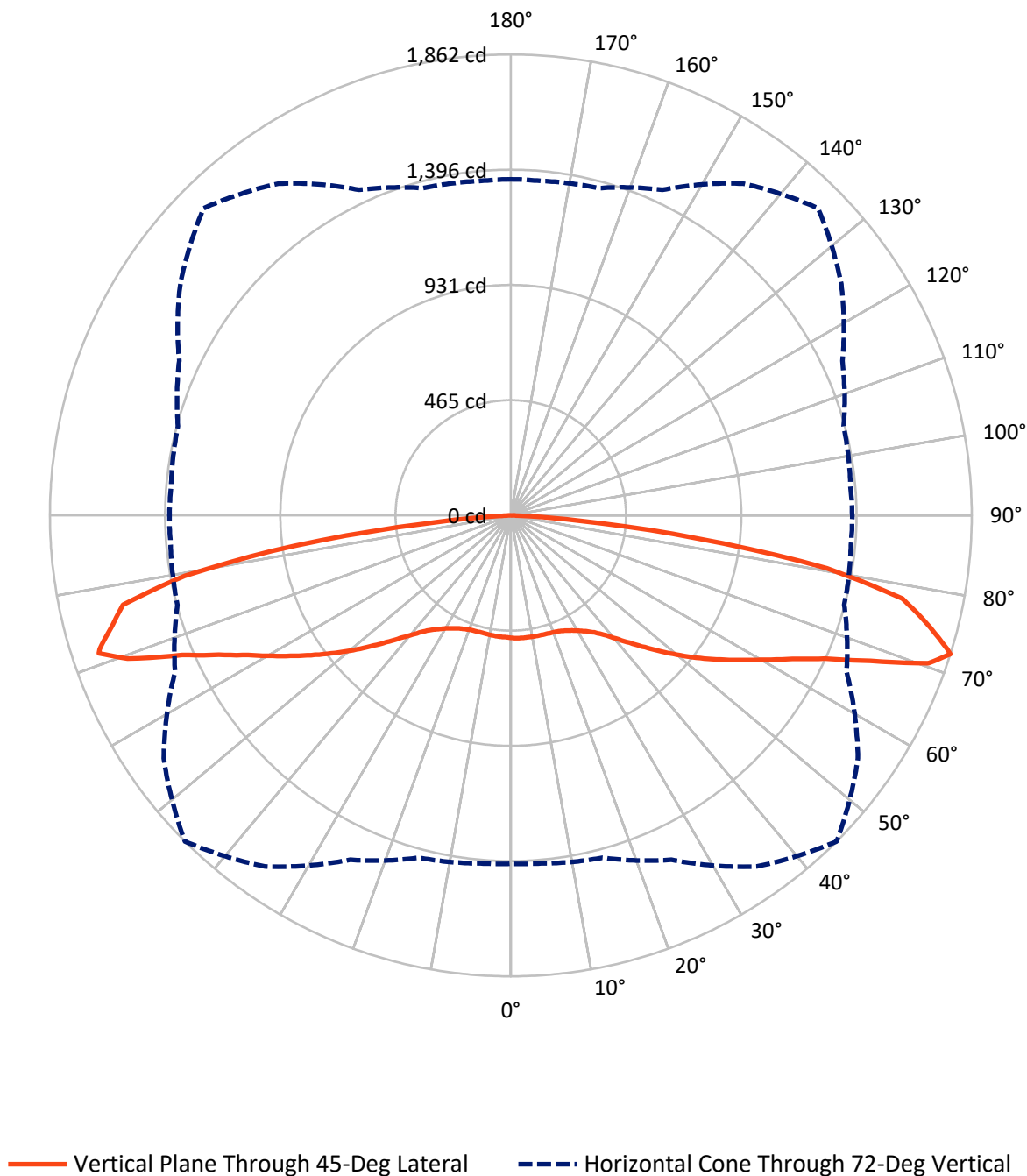


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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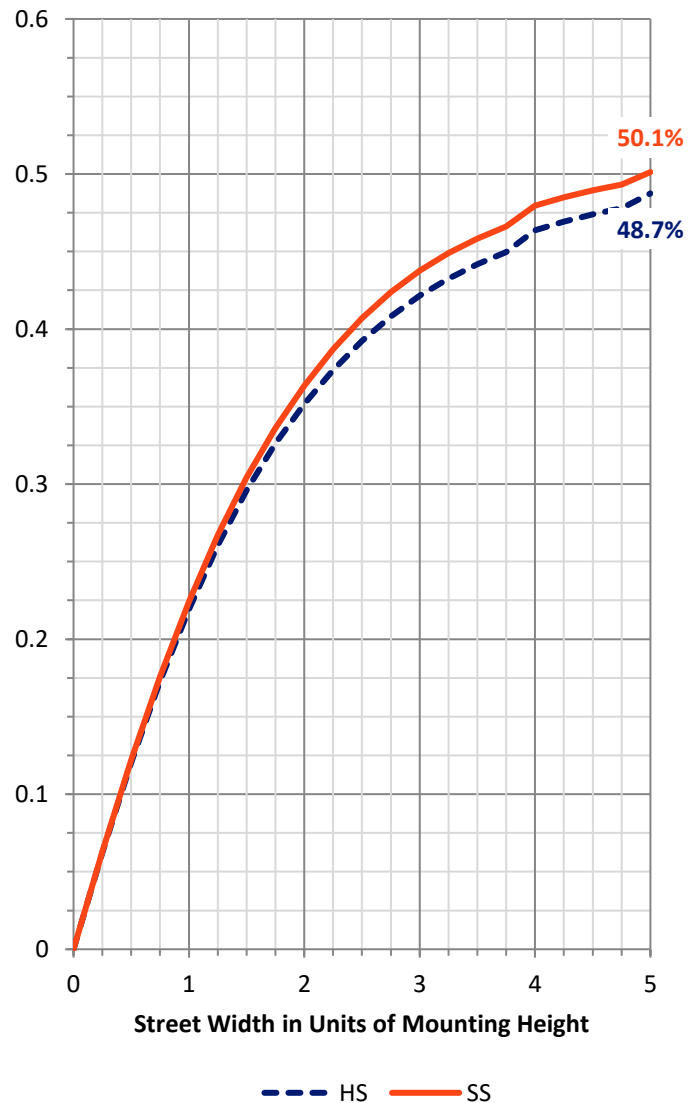
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2583.3	0.0	2583.3
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	2655.2	0.0	2655.2
	% Fixture	50.7	0.0	50.7
Total	Lumens	5238.5	0.0	5238.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	0.9
10°-20°	140.3	2.7
20°-30°	235.6	4.5
30°-40°	358.6	6.8
40°-50°	566.9	10.8
50°-60°	865.8	16.5
60°-70°	1268.4	24.2
70°-80°	1441.0	27.5
80°-90°	314.8	6.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5238.5	100.0
0°-180°	5238.5	100.0

Coefficient of Utilization



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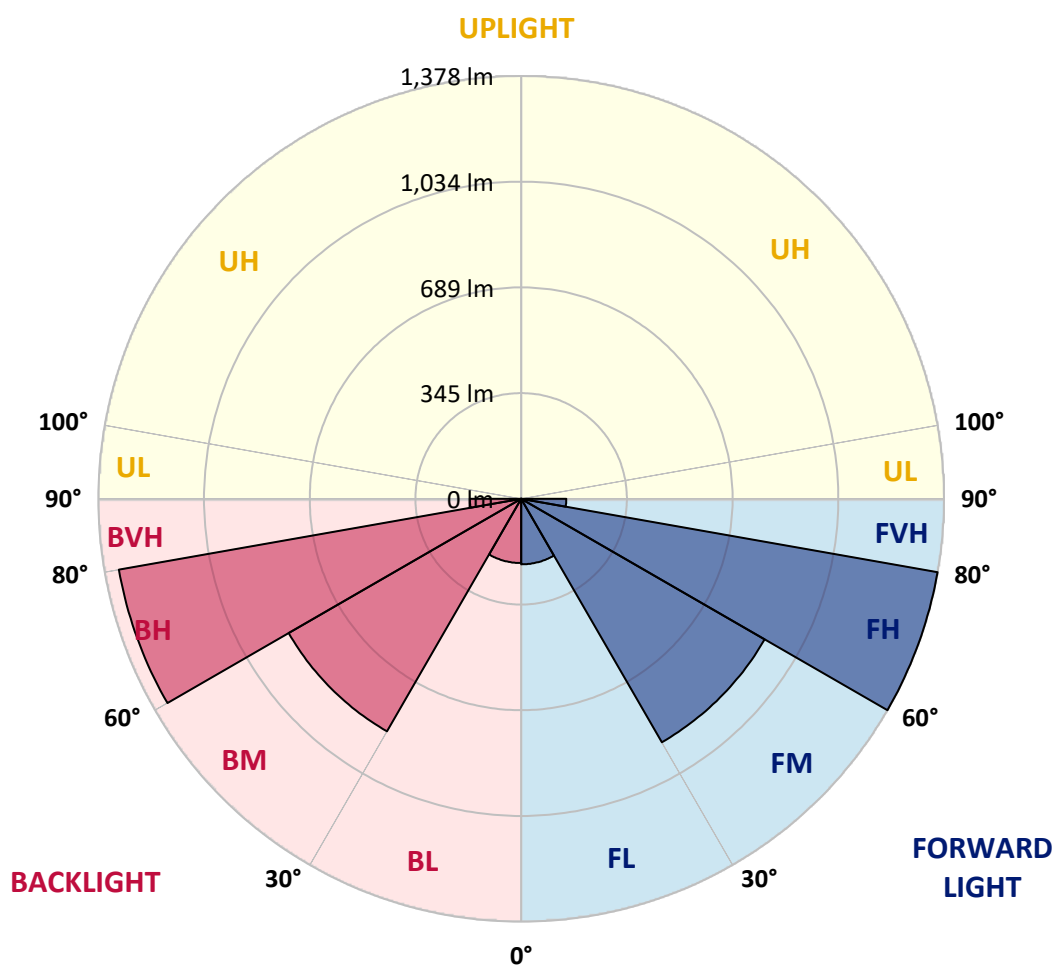
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.6	4.1			
FM	(30°-60°)	916.2	17.5			
FH	(60°-80°)	1378.1	26.3			G1/1800
FVH	(80°-90°)	147.2	2.8			G2/225
BL	(0°-30°)	209.4	4.0	B1/500		
BM	(30°-60°)	875.0	16.7	B1/1000		
BH	(60°-80°)	1331.3	25.4	B3/2500		G1/1800
BVH	(80°-90°)	167.5	3.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7
2.5°	498.8	498.8	497.4	496.7	496.7	496.4	496.0	496.0	495.7	496.0	495.0
5°	499.4	499.4	498.1	497.4	497.1	496.7	496.7	496.0	495.7	496.0	495.0
7.5°	499.4	499.8	499.1	498.4	497.4	497.1	496.7	495.7	495.7	495.0	494.7
10°	500.8	501.8	500.5	499.4	498.1	497.4	496.4	495.7	495.4	494.7	494.7
12.5°	501.8	502.8	501.5	500.5	499.1	498.1	496.7	495.7	495.0	494.0	494.4
15°	503.2	504.2	502.8	501.5	500.1	498.8	497.4	496.0	495.0	494.4	494.4
17.5°	503.8	504.9	503.5	502.1	501.1	500.5	498.8	496.7	495.4	494.7	494.7
20°	504.9	505.9	504.9	504.2	503.2	502.8	501.1	498.8	497.1	496.0	495.7
22.5°	507.2	507.9	507.6	507.6	507.6	507.2	505.9	502.1	500.1	498.4	498.1
25°	513.0	512.7	513.3	514.0	514.3	515.0	513.0	508.9	506.2	503.5	503.2
27.5°	522.5	522.8	523.2	524.5	525.9	526.2	524.2	519.8	515.7	512.0	511.6
30°	533.3	533.3	534.7	537.4	538.7	539.8	537.7	532.3	527.2	523.5	522.8
32.5°	548.9	550.3	550.9	554.0	556.7	557.7	554.7	548.9	543.1	538.4	537.4
35°	571.3	573.3	574.0	576.7	579.7	580.1	577.4	570.9	564.8	558.4	558.7
37.5°	602.8	603.1	604.8	605.5	611.2	611.2	606.8	601.1	595.0	589.2	587.5
40°	644.8	645.1	645.8	644.8	651.6	653.6	647.8	639.0	633.3	625.8	624.8
42.5°	690.5	693.9	693.6	691.9	698.7	703.1	696.0	685.8	679.7	671.9	670.5
45°	747.1	746.4	743.4	747.1	754.9	759.7	750.8	738.0	731.5	721.7	721.4
47.5°	802.0	801.3	796.6	799.3	813.9	821.7	808.8	794.2	785.7	780.0	775.6
50°	854.2	858.9	852.8	858.6	877.6	888.1	876.2	853.2	843.0	834.2	831.8
52.5°	915.5	918.2	912.8	922.0	943.0	958.2	941.9	912.1	902.0	892.1	889.1
55°	978.2	976.8	974.1	984.3	1010.1	1028.0	1010.4	974.5	959.6	952.1	952.1
57.5°	1039.9	1040.5	1034.1	1046.3	1078.8	1102.6	1080.5	1036.5	1018.2	1009.7	1012.4
60°	1105.9	1105.9	1096.1	1107.3	1152.7	1182.9	1149.7	1099.2	1079.2	1074.1	1074.4
62.5°	1180.1	1177.4	1166.6	1180.5	1235.7	1275.7	1234.0	1171.0	1144.9	1144.9	1147.3
65°	1265.9	1261.5	1257.7	1273.7	1345.2	1393.9	1339.1	1259.4	1236.4	1233.7	1238.1
67.5°	1389.2	1393.9	1384.5	1405.5	1503.1	1566.8	1483.4	1380.7	1356.3	1354.0	1364.8
70°	1500.3	1495.6	1507.8	1567.1	1699.9	1788.7	1672.8	1514.9	1445.1	1430.9	1435.3
72°	1406.8	1410.6	1431.2	1534.2	1731.1	1861.5	1711.1	1496.3	1393.9	1379.0	1378.7
72.5°	1385.1	1387.8	1405.5	1504.4	1708.7	1842.2	1691.8	1472.6	1376.0	1363.1	1362.4
75°	1271.3	1276.7	1304.5	1400.7	1608.1	1733.8	1592.5	1387.5	1281.5	1257.1	1262.1
77.5°	1082.9	1094.1	1122.2	1233.0	1476.3	1616.9	1465.8	1230.0	1111.0	1093.1	1087.3
80°	794.6	779.6	830.5	928.7	1101.9	1295.3	1117.8	926.7	803.4	770.5	778.6
82.5°	270.4	276.8	357.1	476.7	604.8	756.3	642.1	464.2	341.9	300.5	282.2
85°	32.9	35.6	55.6	101.3	190.4	275.1	194.5	103.0	64.0	39.3	34.6
87.5°	15.9	16.9	23.7	25.4	31.5	26.8	31.9	20.3	19.3	11.9	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7	494.7
2.5°	494.7	494.0	493.7	493.0	492.3	492.3	492.3	492.3	492.3	492.7
5°	494.7	494.0	493.7	492.7	492.0	492.0	491.6	492.0	491.6	492.0
7.5°	494.7	493.7	492.7	491.6	491.0	491.3	490.6	490.3	490.6	490.6
10°	494.4	492.7	491.3	490.3	489.9	489.6	489.6	489.3	489.9	489.6
12.5°	494.0	492.0	490.3	488.9	488.6	488.6	488.6	488.6	489.6	489.3
15°	493.7	491.6	489.9	488.3	487.9	488.6	488.6	489.3	489.9	489.9
17.5°	494.0	491.6	489.6	488.3	488.3	488.9	489.3	490.3	491.3	490.6
20°	495.4	492.7	491.0	489.6	490.3	491.0	491.0	491.6	492.7	492.0
22.5°	497.4	495.4	494.0	493.7	494.7	495.0	494.7	494.4	494.7	494.0
25°	502.1	500.1	499.1	500.5	501.5	501.1	499.8	498.4	497.7	497.4
27.5°	511.0	509.3	508.9	510.6	511.6	509.9	507.6	505.5	504.9	503.8
30°	521.8	520.8	521.8	523.5	523.8	521.1	517.7	514.7	513.7	513.7
32.5°	536.0	535.0	537.4	540.1	540.8	537.0	531.6	527.6	524.8	524.5
35°	556.7	556.0	556.7	560.1	559.7	556.0	549.9	545.2	542.5	542.5
37.5°	585.5	584.8	583.1	586.5	586.2	581.1	574.7	570.6	567.5	567.9
40°	623.1	622.1	620.1	620.7	623.4	616.7	608.5	603.1	602.8	602.8
42.5°	668.2	663.4	664.1	668.2	666.1	658.0	650.6	645.8	645.8	645.5
45°	717.3	715.6	714.9	716.3	718.0	711.5	699.0	693.6	693.2	693.2
47.5°	774.2	765.8	767.5	770.8	774.9	766.8	750.8	744.4	743.4	743.7
50°	829.8	821.0	822.7	829.8	837.6	824.7	805.1	797.3	795.9	796.6
52.5°	887.4	879.9	879.9	891.8	902.0	886.0	861.3	851.8	851.8	851.5
55°	948.4	938.2	942.3	957.5	969.7	950.4	919.9	912.5	906.7	909.1
57.5°	1009.0	998.9	1002.3	1025.6	1040.9	1017.8	979.6	964.0	960.6	959.9
60°	1071.0	1059.5	1063.6	1100.2	1118.1	1087.6	1031.4	1012.4	1009.4	1009.0
62.5°	1139.8	1131.7	1137.8	1180.1	1200.8	1157.4	1086.6	1064.9	1066.0	1063.6
65°	1225.5	1219.1	1229.6	1281.5	1306.9	1243.2	1158.1	1133.0	1136.1	1135.8
67.5°	1348.2	1340.4	1346.9	1419.4	1442.1	1360.4	1257.4	1232.7	1237.4	1245.2
70°	1425.1	1430.9	1488.8	1590.5	1652.8	1569.5	1433.3	1386.8	1389.2	1390.2
72°	1377.0	1391.6	1477.6	1629.4	1754.5	1635.9	1450.5	1368.2	1356.0	1357.4
72.5°	1364.1	1375.3	1461.7	1613.2	1746.0	1621.6	1431.9	1354.0	1334.3	1335.0
75°	1267.2	1288.6	1371.6	1529.1	1671.4	1550.1	1360.1	1277.1	1261.8	1261.8
77.5°	1100.2	1130.0	1215.0	1436.3	1607.1	1474.9	1268.9	1166.3	1150.7	1144.9
80°	809.5	853.2	936.9	1155.4	1339.7	1219.1	1044.6	938.9	914.5	905.7
82.5°	318.8	356.4	497.1	696.0	883.0	751.5	568.2	474.0	398.5	390.3
85°	39.6	64.0	125.4	229.4	350.7	249.4	148.7	77.9	42.0	35.2
87.5°	11.5	21.7	23.7	38.6	45.7	42.0	26.4	23.7	13.2	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)