

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: P509336

Luminaire Tested: **VERD-CA2-70-760-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-760-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9502 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

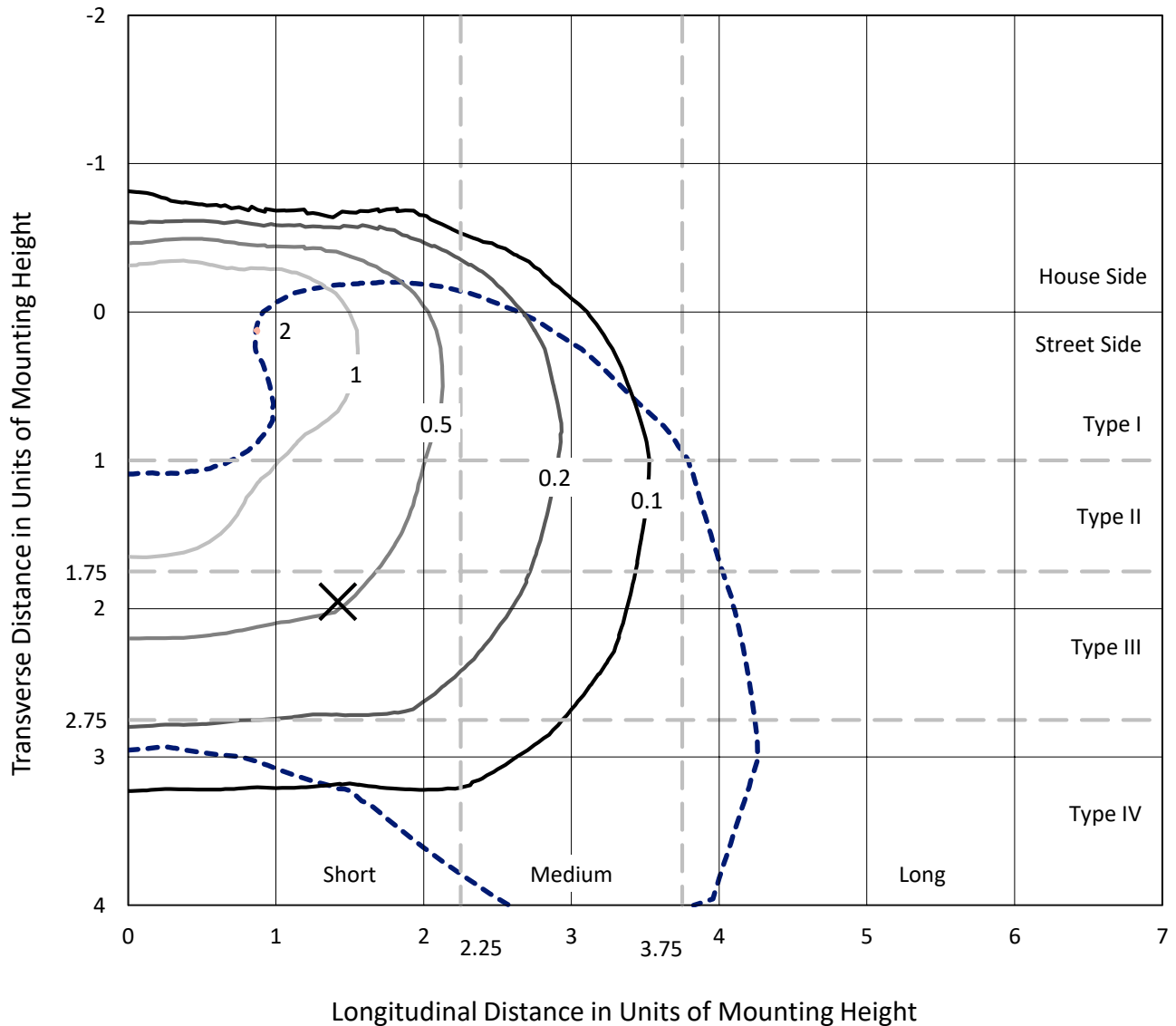
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

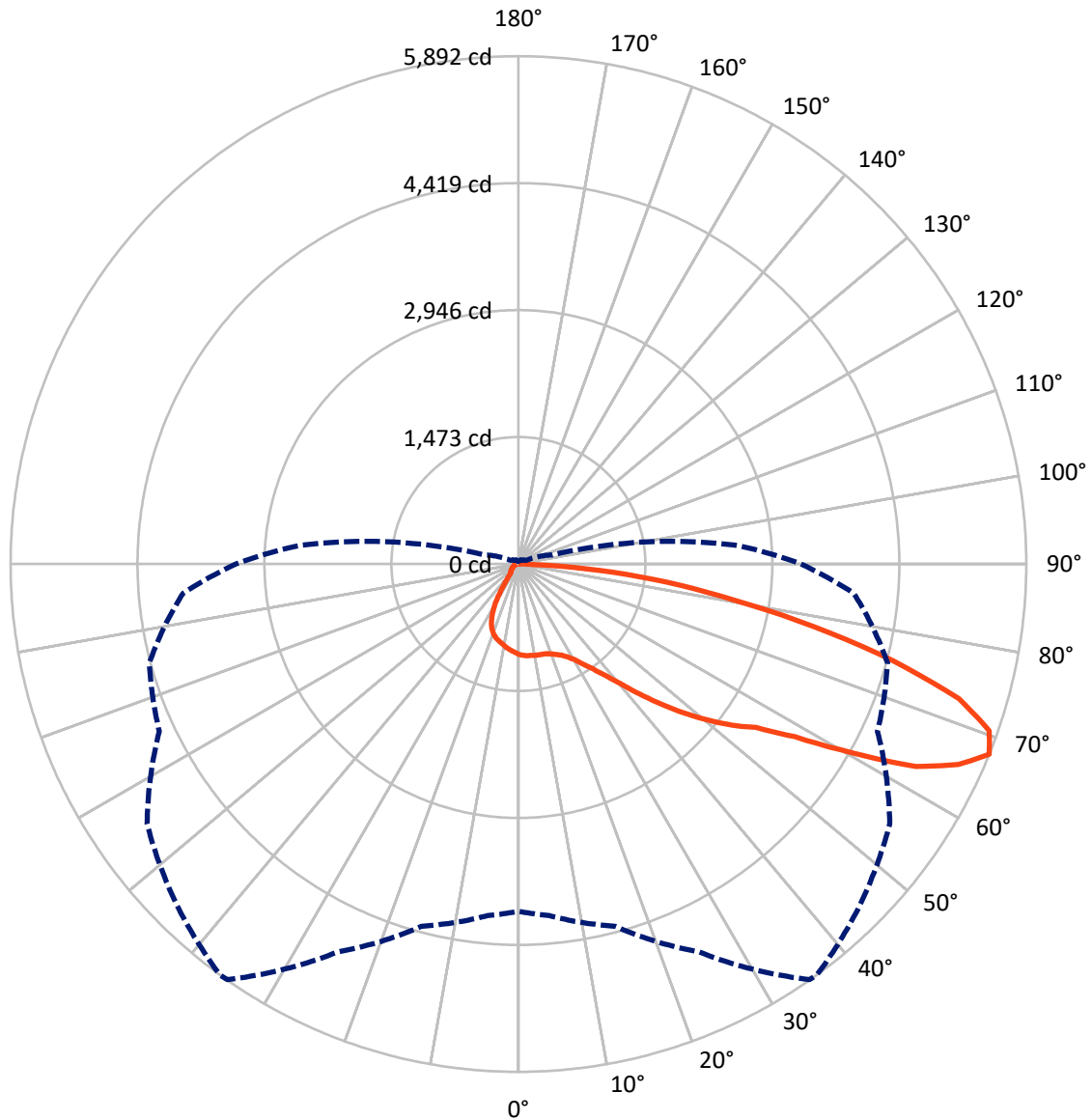
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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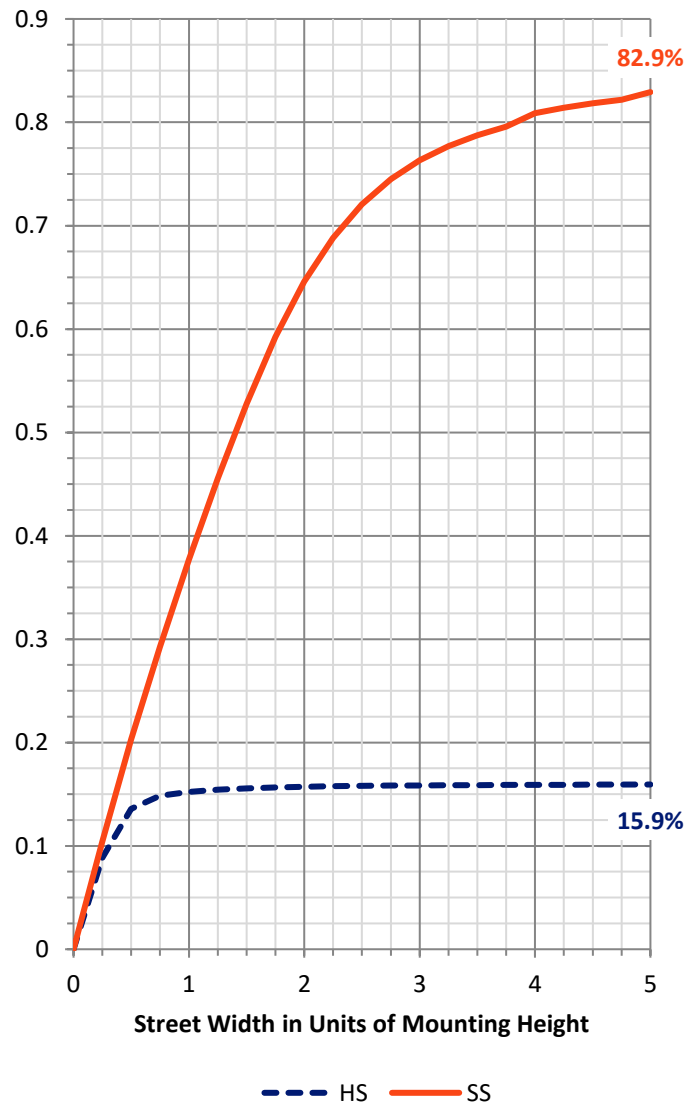
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1532.4	0.0	1532.4
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7969.6	0.0	7969.6
	% Fixture	83.9	0.0	83.9
Total	Lumens	9502.0	0.0	9502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.0
10°-20°	293.6	3.1
20°-30°	485.6	5.1
30°-40°	770.2	8.1
40°-50°	1329.5	14.0
50°-60°	1970.6	20.7
60°-70°	2547.7	26.8
70°-80°	1719.8	18.1
80°-90°	285.9	3.0
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°	9502.0	100.0
0°-180°	9502.0	100.0



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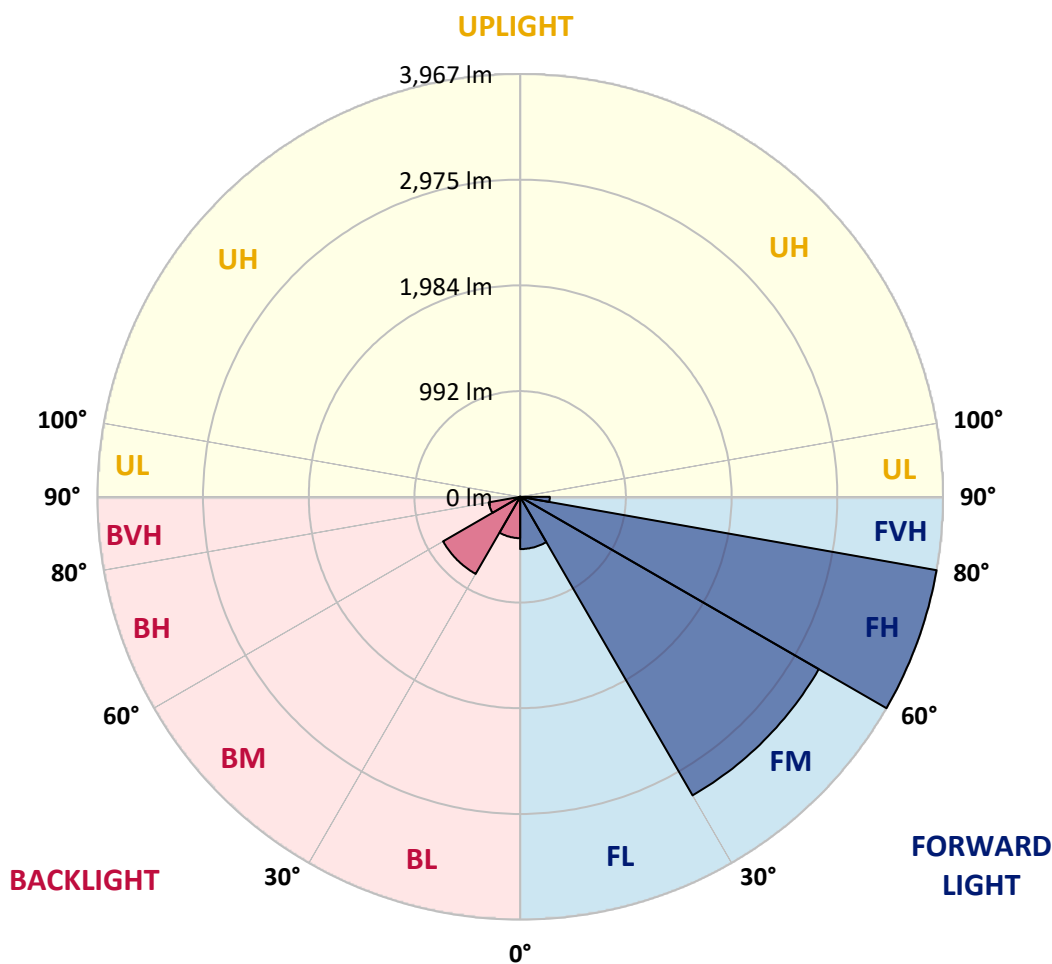
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.5	5.2			
FM	(30°-60°)	3234.3	34.0			
FH	(60°-80°)	3967.1	41.8			G2/5000
FVH	(80°-90°)	277.8	2.9			G3/500
BL	(0°-30°)	387.8	4.1	B1/500		
BM	(30°-60°)	836.0	8.8	B1/1000		
BH	(60°-80°)	300.4	3.2	B1/500		G1/500
BVH	(80°-90°)	8.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1054.7	1064.9	1063.8	1062.6	1062.6	1061.5	1054.7	1047.9	1051.3	1050.1	1049.0
5°	1059.2	1069.5	1068.3	1067.2	1067.2	1068.3	1058.1	1050.1	1052.4	1054.7	1053.6
7.5°	1061.5	1070.6	1068.3	1067.2	1066.1	1069.5	1061.5	1062.6	1064.9	1064.9	1064.9
10°	1064.9	1071.7	1071.7	1072.9	1074.0	1077.4	1074.0	1077.4	1086.5	1084.2	1089.9
12.5°	1055.8	1063.8	1067.2	1072.9	1078.6	1080.8	1084.2	1093.3	1104.7	1110.4	1116.1
15°	1052.4	1060.4	1066.1	1072.9	1082.0	1084.2	1093.3	1109.2	1122.9	1134.3	1146.8
17.5°	1063.8	1072.9	1080.8	1085.4	1089.9	1093.3	1102.4	1122.9	1146.8	1167.2	1185.4
20°	1085.4	1094.5	1103.6	1108.1	1111.5	1113.8	1120.6	1139.9	1170.6	1202.4	1228.6
22.5°	1110.4	1119.5	1129.7	1133.1	1141.1	1141.1	1142.2	1161.5	1199.0	1242.2	1274.0
25°	1137.7	1143.3	1152.4	1158.1	1169.5	1171.8	1175.2	1192.2	1238.8	1287.7	1337.7
27.5°	1169.5	1180.8	1189.9	1196.8	1219.5	1220.6	1218.4	1239.9	1285.4	1345.6	1416.1
30°	1227.4	1239.9	1249.0	1260.4	1290.0	1288.8	1303.6	1326.3	1352.5	1418.4	1512.7
32.5°	1319.5	1320.6	1325.2	1340.0	1382.0	1386.6	1415.0	1455.9	1508.2	1550.2	1650.2
35°	1487.7	1482.0	1468.4	1466.1	1494.5	1496.8	1552.5	1638.9	1752.5	1892.3	2046.9
37.5°	1684.3	1699.1	1683.2	1634.3	1638.9	1640.0	1705.9	1816.2	2027.6	2377.6	2524.2
40°	2029.8	2037.8	1938.9	1861.6	1834.3	1821.8	1855.9	2023.0	2293.5	2749.3	2852.7
42.5°	2334.4	2334.4	2242.4	2123.0	2053.7	2062.8	2052.6	2218.5	2566.3	3072.0	3109.5
45°	2639.0	2628.8	2544.7	2444.7	2323.1	2315.1	2289.0	2416.2	2817.4	3303.9	3305.0
47.5°	2923.1	2947.0	2820.9	2710.6	2586.7	2581.0	2534.4	2633.3	3058.4	3507.3	3476.6
50°	3222.0	3255.0	3097.0	2973.1	2839.0	2847.0	2808.3	2877.7	3298.2	3697.1	3641.4
52.5°	3647.1	3585.7	3397.1	3225.5	3086.8	3109.5	3069.7	3110.7	3547.1	3848.3	3732.3
55°	4102.8	3993.7	3836.9	3549.4	3348.2	3345.9	3316.4	3365.2	3798.3	4021.0	3835.8
57.5°	4347.2	4380.2	4343.8	4110.8	3785.8	3780.1	3602.8	3608.5	4029.0	4168.8	3980.1
60°	4625.7	4666.6	4746.1	4600.6	4438.1	4442.7	4000.6	3868.7	4272.2	4287.0	3991.5
62.5°	4773.4	4777.9	4960.9	5012.1	5143.9	5173.5	4838.2	4187.0	4433.6	4377.9	4010.8
65°	4512.0	4520.0	4872.3	5130.3	5570.1	5609.9	5465.5	4802.9	4554.0	4425.6	3992.6
67.5°	4029.0	4093.8	4350.6	4966.6	5886.1	5891.7	5600.8	5258.7	4596.1	4432.4	3905.1
70°	3376.6	3353.9	3678.9	4418.8	5837.2	5795.1	5541.7	5311.0	4565.4	4339.2	3506.2
72.5°	2503.8	2469.7	2804.9	3552.8	5265.5	5345.1	5276.9	5005.2	4449.5	3991.5	2845.9
75°	1713.9	1753.7	2054.8	2678.8	4373.3	4493.8	4795.0	4768.9	3958.5	3308.4	1948.0
77.5°	1172.9	1189.9	1447.9	1993.5	3466.4	3513.0	4011.9	3852.8	2910.6	2033.2	650.1
80°	763.7	758.1	989.9	1419.5	2541.3	2535.6	2865.2	2437.8	1568.4	693.3	89.8
82.5°	426.2	451.2	593.3	933.1	1717.3	1735.5	1788.9	1333.1	603.5	80.7	56.8
85°	239.8	250.0	341.0	528.5	900.1	945.6	797.8	489.8	108.0	44.3	33.0
87.5°	56.8	54.6	109.1	202.3	150.0	162.5	77.3	22.7	11.4	8.0	8.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1049.0	1046.7	1044.5	1039.9	1036.5	1026.3	1027.4	1034.2	1027.4	1038.8	1032.0
5°	1051.3	1047.9	1042.2	1028.6	1018.3	1010.4	1008.1	1007.0	997.9	1008.1	1003.6
7.5°	1060.4	1057.0	1044.5	1029.7	1014.9	991.0	987.6	983.1	966.0	972.9	967.2
10°	1082.0	1077.4	1055.8	1035.4	1012.6	980.8	962.6	949.0	929.7	931.9	926.3
12.5°	1109.2	1104.7	1079.7	1045.6	1013.8	969.5	937.6	911.5	883.1	883.1	877.4
15°	1141.1	1136.5	1108.1	1068.3	1018.3	960.4	912.6	870.6	825.1	819.4	812.6
17.5°	1184.3	1177.4	1144.5	1093.3	1030.8	952.4	887.6	825.1	755.8	734.2	722.8
20°	1228.6	1220.6	1192.2	1128.6	1047.9	944.5	851.3	766.0	676.2	631.9	624.0
22.5°	1285.4	1283.1	1247.9	1159.3	1053.6	927.4	805.8	700.1	579.6	518.3	505.8
25°	1352.5	1349.1	1294.5	1183.1	1046.7	893.3	741.0	605.8	470.5	409.1	395.5
27.5°	1432.0	1422.9	1334.3	1188.8	1027.4	839.9	658.0	484.2	347.8	295.5	285.3
30°	1516.1	1502.5	1376.3	1189.9	988.8	774.0	548.9	355.7	246.6	209.1	209.1
32.5°	1657.1	1610.5	1417.2	1174.0	933.1	679.6	418.2	239.8	172.8	158.0	158.0
35°	1959.4	1848.0	1482.0	1153.6	860.3	562.6	284.1	162.5	144.3	144.3	143.2
37.5°	2412.8	2206.0	1592.3	1119.5	761.5	418.2	187.5	134.1	137.5	137.5	137.5
40°	2702.7	2485.6	1742.3	1066.1	647.8	284.1	134.1	127.3	129.6	131.8	131.8
42.5°	2973.1	2728.8	1892.3	992.2	522.8	181.8	125.0	119.3	120.5	120.5	121.6
45°	3144.8	2909.5	2003.7	913.8	385.3	129.6	122.7	112.5	109.1	109.1	111.4
47.5°	3303.9	3027.7	2052.6	810.3	248.9	121.6	117.1	104.6	100.0	98.9	98.9
50°	3463.0	3149.3	2079.8	687.6	155.7	117.1	108.0	95.5	90.9	89.8	89.8
52.5°	3533.5	3187.9	2018.5	548.9	115.9	112.5	101.2	87.5	80.7	80.7	80.7
55°	3607.3	3259.5	1915.0	393.2	110.2	104.6	93.2	78.4	72.7	75.0	75.0
57.5°	3689.2	3208.4	1804.8	255.7	109.1	94.3	83.0	70.5	65.9	68.2	69.3
60°	3664.2	3220.9	1646.8	171.6	104.6	86.4	75.0	62.5	59.1	59.1	59.1
62.5°	3664.2	3124.3	1387.7	130.7	95.5	79.6	69.3	58.0	52.3	50.0	47.7
65°	3567.5	2895.9	1013.8	113.7	85.2	73.9	62.5	51.1	44.3	40.9	39.8
67.5°	3275.5	2517.4	408.0	103.4	78.4	68.2	58.0	46.6	38.6	34.1	33.0
70°	2784.5	1858.2	117.1	92.1	79.6	63.6	54.6	40.9	34.1	28.4	27.3
72.5°	2063.9	982.0	95.5	72.7	70.5	54.6	51.1	38.6	29.5	23.9	22.7
75°	1042.2	134.1	81.8	52.3	54.6	56.8	48.9	34.1	27.3	19.3	18.2
77.5°	108.0	79.6	71.6	35.2	38.6	39.8	42.1	31.8	23.9	15.9	14.8
80°	67.1	60.2	70.5	30.7	22.7	27.3	28.4	25.0	19.3	12.5	12.5
82.5°	47.7	51.1	52.3	19.3	17.0	15.9	14.8	14.8	17.0	11.4	11.4
85°	33.0	34.1	21.6	12.5	11.4	10.2	9.1	9.1	8.0	9.1	8.0
87.5°	8.0	6.8	6.8	6.8	5.7	5.7	4.5	4.5	4.5	4.5	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)