

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640500

Luminaire Tested: GWS-SA5E-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28158.7 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

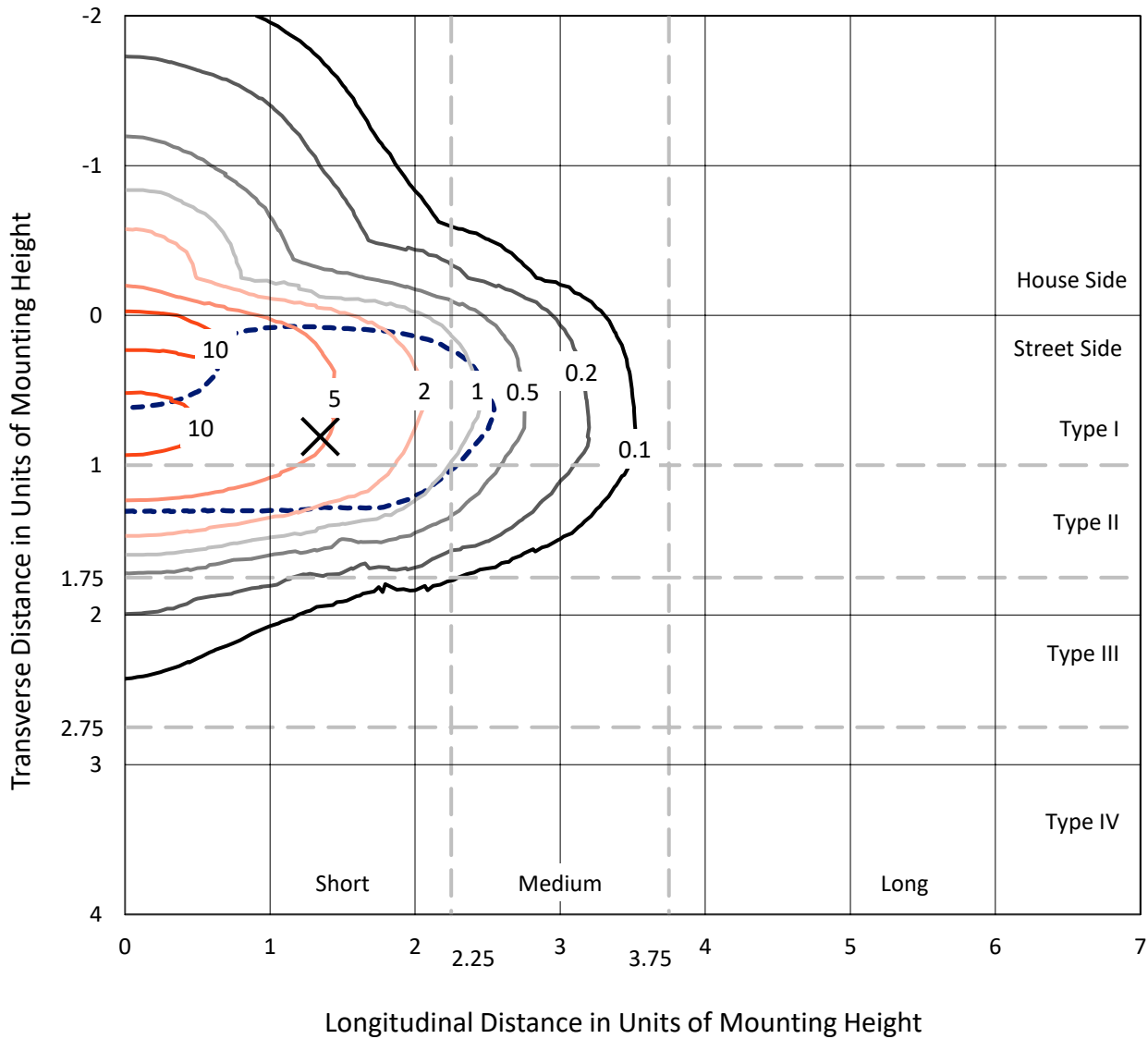
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

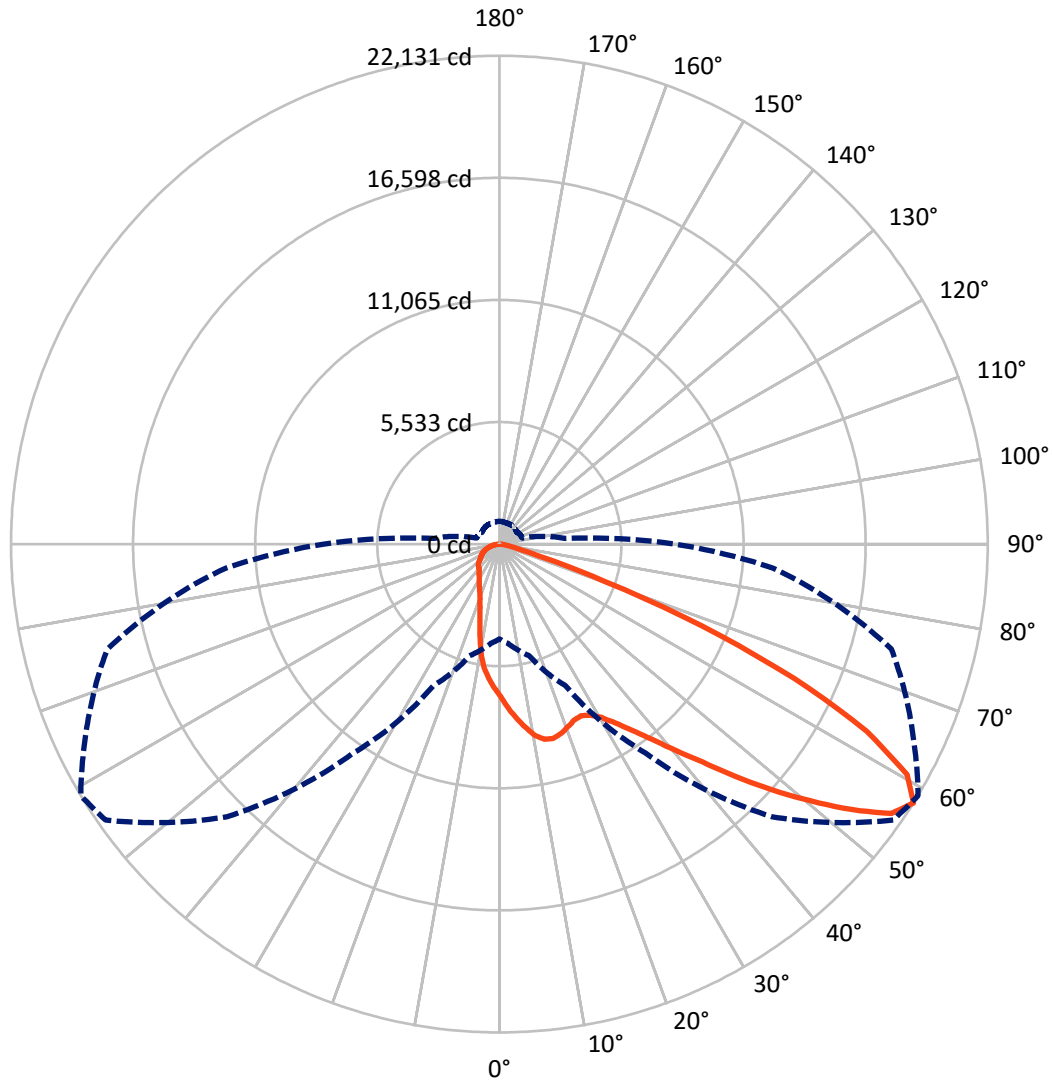
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4370.1	0.0	4370.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	23788.6	0.0	23788.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	28158.7	0.0	28158.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.8	2.3
10°-20°	1626.4	5.8
20°-30°	2636.4	9.4
30°-40°	4241.0	15.1
40°-50°	6585.9	23.4
50°-60°	7093.9	25.2
60°-70°	4117.0	14.6
70°-80°	1074.8	3.8
80°-90°	141.6	0.5
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°	28158.7	100.0
0°-180°	28158.7	100.0

Coefficient of Utilization



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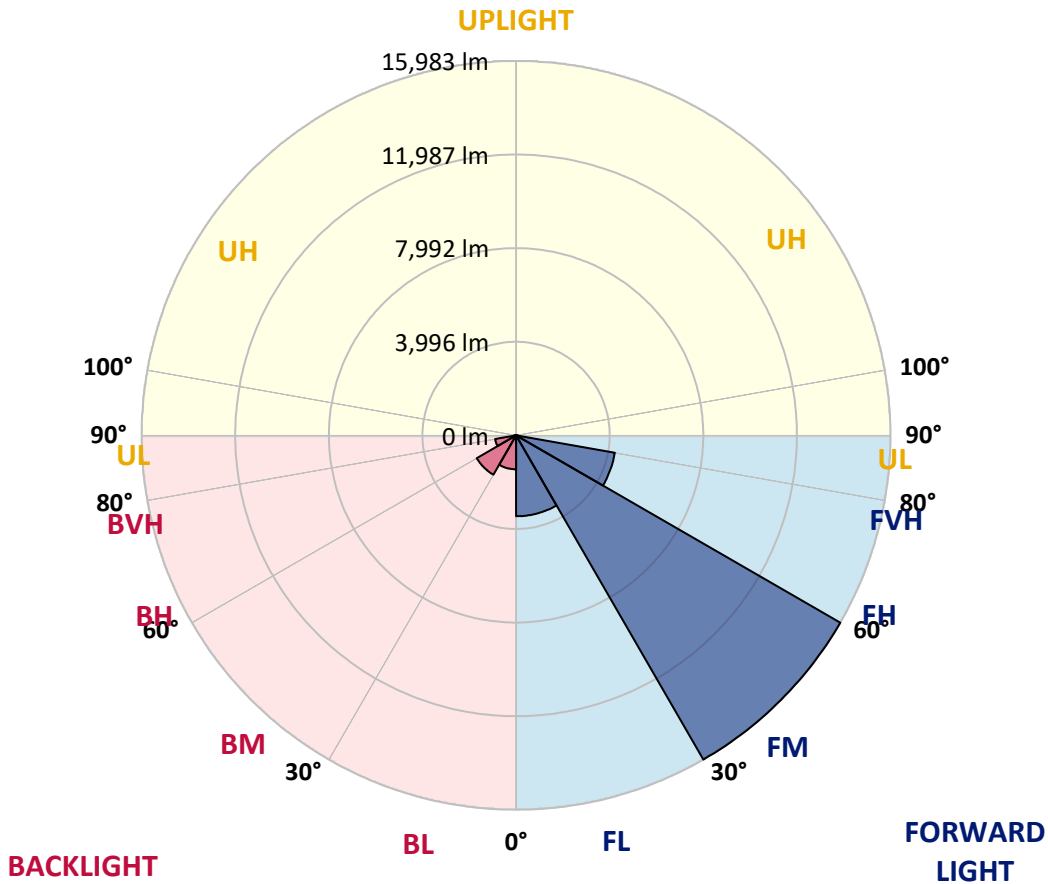
CATALOG NUMBER: GWS-SA5E-722-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3454.8	12.3			
FM (30°-60°)	15983.2	56.8			
FH (60°-80°)	4282.8	15.2			G2/5000
FVH (80°-90°)	67.8	0.2			G1/100
BL (0°-30°)	1449.8	5.1	B3/2500		
BM (30°-60°)	1937.5	6.9	B2/2500		
BH (60°-80°)	909.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	73.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4
2.5°	7840.1	7774.7	7820.3	7739.0	7705.3	7616.1	7501.2	7423.8	7304.9	7150.3	7015.5
5°	8619.2	8573.6	8583.5	8496.3	8419.0	8270.3	8034.4	7903.6	7701.4	7390.1	7100.7
7.5°	8595.4	8648.9	8678.7	8754.0	8775.8	8761.9	8549.8	8367.4	8145.4	7677.6	7241.5
10°	7705.3	7806.4	7897.6	8155.3	8468.5	8865.0	8914.6	8805.5	8581.5	8044.3	7410.0
12.5°	6736.0	6813.3	6894.6	7203.8	7683.5	8476.5	9013.7	9081.1	8991.9	8407.1	7600.3
15°	6260.2	6295.9	6373.2	6577.4	6960.0	7840.1	8841.2	9136.6	9297.1	8791.7	7814.4
17.5°	6240.4	6256.2	6293.9	6402.9	6668.6	7348.5	8530.0	9025.6	9537.0	9198.0	8064.1
20°	6650.7	6609.1	6585.3	6583.3	6714.2	7184.0	8228.7	8847.2	9650.0	9614.3	8331.7
22.5°	7219.7	7233.5	7182.0	7055.1	7039.3	7300.9	8078.0	8666.8	9683.7	9983.0	8579.5
25°	8026.5	8095.9	7943.2	7701.4	7582.4	7639.9	8171.2	8611.3	9679.7	10290.3	8734.2
27.5°	8968.1	9021.6	8867.0	8549.8	8304.0	8165.2	8448.7	8775.8	9713.4	10555.9	8827.3
30°	10040.5	10058.4	9846.3	9513.2	9154.4	8857.1	8910.6	9114.8	9885.9	10904.8	8936.4
32.5°	11350.8	11426.2	11105.0	10577.7	10076.2	9695.6	9531.1	9661.9	10258.6	11317.1	9104.9
35°	13014.0	13039.8	12631.4	11876.2	11166.5	10639.2	10294.3	10363.6	10825.5	11894.0	9358.6
37.5°	14582.0	14607.8	14173.7	13471.9	12457.0	11735.4	11235.9	11204.2	11551.1	12708.7	9772.9
40°	15577.2	15650.5	15456.3	15016.2	14046.8	13073.5	12395.5	12286.5	12502.6	13705.9	10349.8
42.5°	16112.4	16144.1	16140.2	16197.6	15620.8	14653.4	13703.9	13485.8	13630.5	14782.3	10932.6
45°	16116.4	16195.7	16407.8	16960.8	16986.6	16384.0	15357.1	15016.2	14883.4	15866.6	11541.1
47.5°	15394.8	15480.0	16062.9	17151.2	17954.0	18090.8	17337.5	16653.6	16094.6	16800.3	12040.7
50°	13210.3	13424.4	14534.5	16459.3	18144.3	19458.6	19226.7	18298.9	17171.0	17521.8	12353.9
52.5°	11313.2	11305.2	11989.2	14504.7	17349.4	20061.2	21054.4	19991.8	18235.5	17979.8	12433.2
55°	8284.2	8329.8	9029.5	11093.1	15228.3	19478.4	22059.4	21550.0	19456.6	18223.6	12401.5
57.5°	4295.7	4521.7	5239.3	7078.9	11570.9	17472.3	21791.8	22130.8	20697.5	18396.1	12443.1
60°	2170.7	2127.0	2384.7	3379.9	6704.3	13646.4	20142.5	21222.9	20921.6	18530.9	12468.9
62.5°	1449.1	1437.2	1365.8	1566.0	2739.6	8082.0	17171.0	18685.5	19365.4	18213.7	12139.8
65°	1254.8	1231.0	1100.2	1092.3	1330.1	3352.1	12585.8	14689.1	16005.4	16804.2	11352.8
67.5°	1129.9	1094.2	961.4	896.0	955.5	1472.9	7092.8	9852.2	11818.7	14211.4	9628.2
70°	1009.0	991.2	858.4	763.2	757.3	898.0	2612.7	5084.7	7231.6	9695.6	7039.3
72.5°	903.9	872.2	759.2	668.0	622.5	636.3	1133.9	1958.5	3742.6	6048.1	4210.5
75°	783.0	759.2	660.1	568.9	513.4	465.8	691.8	905.9	1706.8	2874.4	1988.3
77.5°	604.6	588.8	521.4	452.0	420.3	346.9	420.3	570.9	789.0	1211.2	1034.8
80°	350.9	360.8	388.5	352.9	309.2	247.8	273.6	329.1	473.8	656.2	586.8
82.5°	176.4	188.3	251.8	204.2	184.4	144.7	162.6	194.3	247.8	362.8	230.0
85°	13.9	13.9	45.6	51.5	63.4	51.5	65.4	79.3	113.0	144.7	77.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	9.9	17.8	33.7	21.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4	6912.4
2.5°	6924.3	6823.2	6702.3	6603.2	6450.5	6369.2	6266.2	6139.3	6087.7	6064.0	6050.1
5°	6938.2	6759.8	6502.1	6264.2	6000.5	5792.4	5560.4	5318.6	5179.8	5146.1	5122.4
7.5°	6989.7	6739.9	6329.6	5937.1	5447.5	4993.5	4551.4	4113.3	3889.3	3804.1	3796.2
10°	7061.1	6732.0	6155.1	5503.0	4676.3	3958.7	3441.3	3098.4	2953.7	2906.1	2890.2
12.5°	7150.3	6726.1	5925.2	4900.3	3786.3	3108.3	2812.9	2757.4	2777.2	2773.3	2773.3
15°	7263.3	6734.0	5647.7	4218.4	3062.7	2698.0	2703.9	2769.3	2830.8	2840.7	2840.7
17.5°	7386.2	6726.1	5245.3	3534.5	2628.6	2600.8	2692.0	2783.2	2838.7	2846.6	2846.6
20°	7519.0	6688.4	4737.8	2890.2	2438.3	2539.4	2638.5	2709.9	2743.5	2751.5	2751.5
22.5°	7598.3	6581.3	4186.7	2446.2	2317.3	2442.2	2507.7	2581.0	2585.0	2521.5	2519.5
25°	7586.4	6381.1	3558.3	2160.7	2188.5	2297.5	2380.8	2329.2	2265.8	2230.1	2224.2
27.5°	7511.1	6079.8	2918.0	1944.7	2035.9	2158.8	2133.0	2089.4	2073.5	2033.9	2029.9
30°	7415.9	5709.1	2343.1	1776.2	1877.3	1990.3	1950.6	1946.7	1930.8	1887.2	1887.2
32.5°	7324.7	5326.5	1909.0	1651.3	1776.2	1784.1	1839.6	1843.6	1835.6	1760.3	1752.4
35°	7299.0	4943.9	1615.6	1552.2	1677.1	1673.1	1752.4	1750.4	1613.6	1508.6	1506.6
37.5°	7376.3	4555.4	1441.2	1470.9	1540.3	1591.8	1655.2	1540.3	1494.7	1431.2	1427.3
40°	7540.8	4196.6	1352.0	1423.3	1453.1	1528.4	1429.3	1437.2	1425.3	1377.7	1371.8
42.5°	7758.9	3891.3	1302.4	1407.5	1403.5	1423.3	1314.3	1346.0	1363.8	1328.2	1322.2
45°	7969.0	3625.7	1276.6	1348.0	1367.8	1252.8	1231.0	1260.8	1288.5	1274.6	1268.7
47.5°	8123.6	3395.7	1262.7	1266.7	1322.2	1195.3	1159.7	1173.5	1207.2	1213.2	1211.2
50°	8171.2	3199.5	1246.9	1199.3	1187.4	1137.9	1110.1	1106.1	1145.8	1173.5	1177.5
52.5°	8080.0	3025.0	1205.3	1139.8	1082.4	1090.3	1080.4	1060.5	1100.2	1137.9	1141.8
55°	7945.2	2925.9	1139.8	1082.4	1015.0	1046.7	1050.6	1032.8	1058.6	1084.3	1084.3
57.5°	7955.1	2983.4	1076.4	1028.8	955.5	997.1	1018.9	1011.0	1011.0	1030.8	1032.8
60°	8020.5	3066.7	1034.8	961.4	896.0	939.6	989.2	981.3	963.4	989.2	989.2
62.5°	7832.2	2955.7	1007.0	896.0	832.6	884.1	943.6	939.6	919.8	961.4	965.4
65°	7277.1	2658.3	975.3	814.7	769.1	828.6	880.2	894.0	876.2	931.7	941.6
67.5°	6099.6	2236.1	913.9	737.4	705.7	761.2	810.8	830.6	816.7	882.1	890.1
70°	4547.5	1809.9	816.7	652.2	628.4	678.0	723.6	731.5	733.5	810.8	818.7
72.5°	2900.2	1407.5	687.9	557.0	539.2	576.9	610.6	642.3	656.2	729.5	727.5
75°	1617.6	1046.7	553.1	471.8	440.1	469.8	509.5	547.1	586.8	693.8	705.7
77.5°	931.7	735.4	438.1	378.6	341.0	372.7	406.4	459.9	578.8	672.0	660.1
80°	525.3	477.7	331.0	277.5	253.7	277.5	303.3	404.4	455.9	495.6	501.5
82.5°	245.8	267.6	226.0	170.5	170.5	186.3	210.1	313.2	344.9	281.5	245.8
85°	89.2	120.9	111.0	87.2	77.3	75.3	130.8	178.4	111.0	99.1	85.2
87.5°	23.8	33.7	31.7	21.8	11.9	9.9	0.0	0.0	0.0	0.0	0.0
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)