

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: P639045

Luminaire Tested: GWS-SA5B-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13336.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

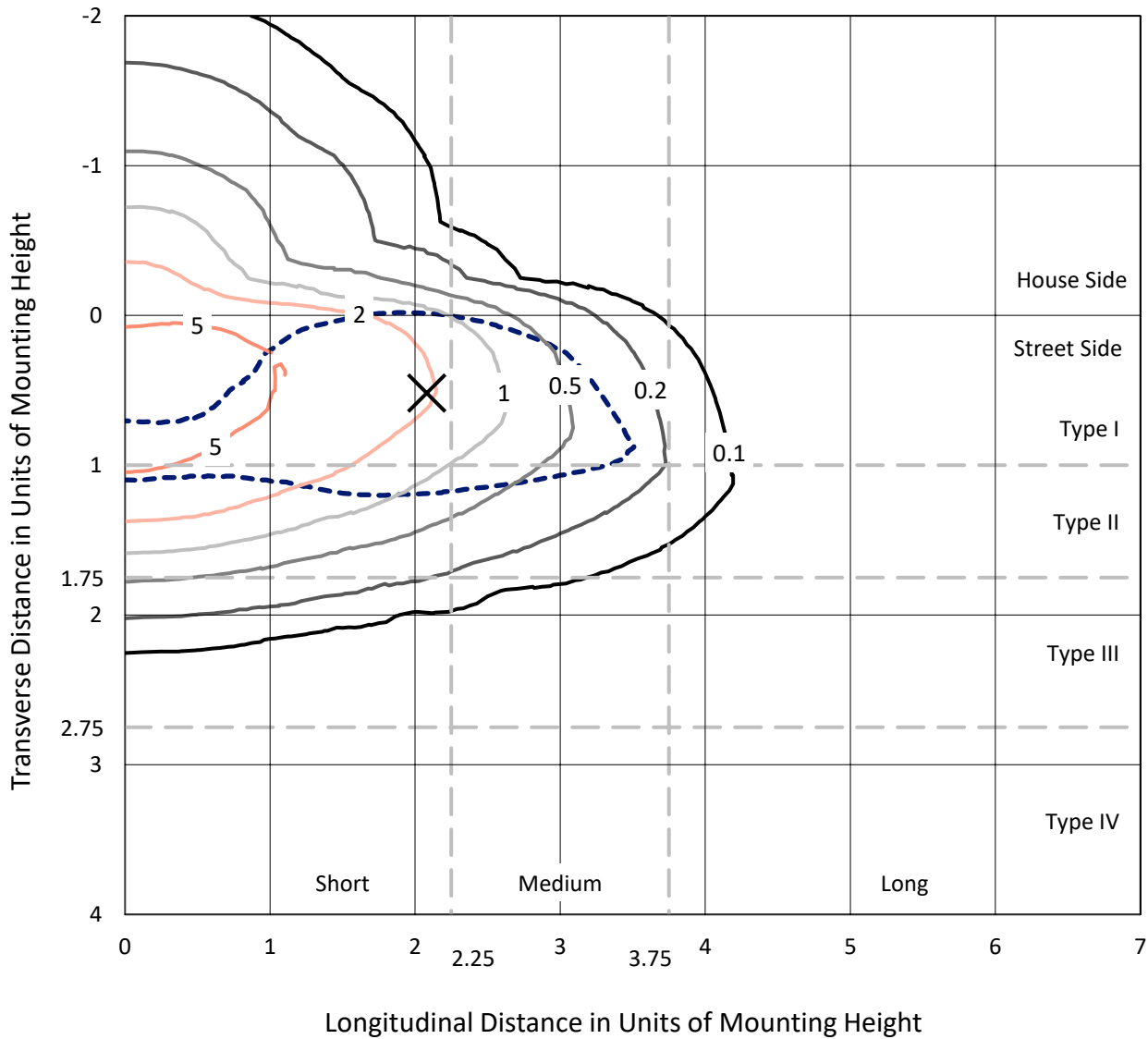
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

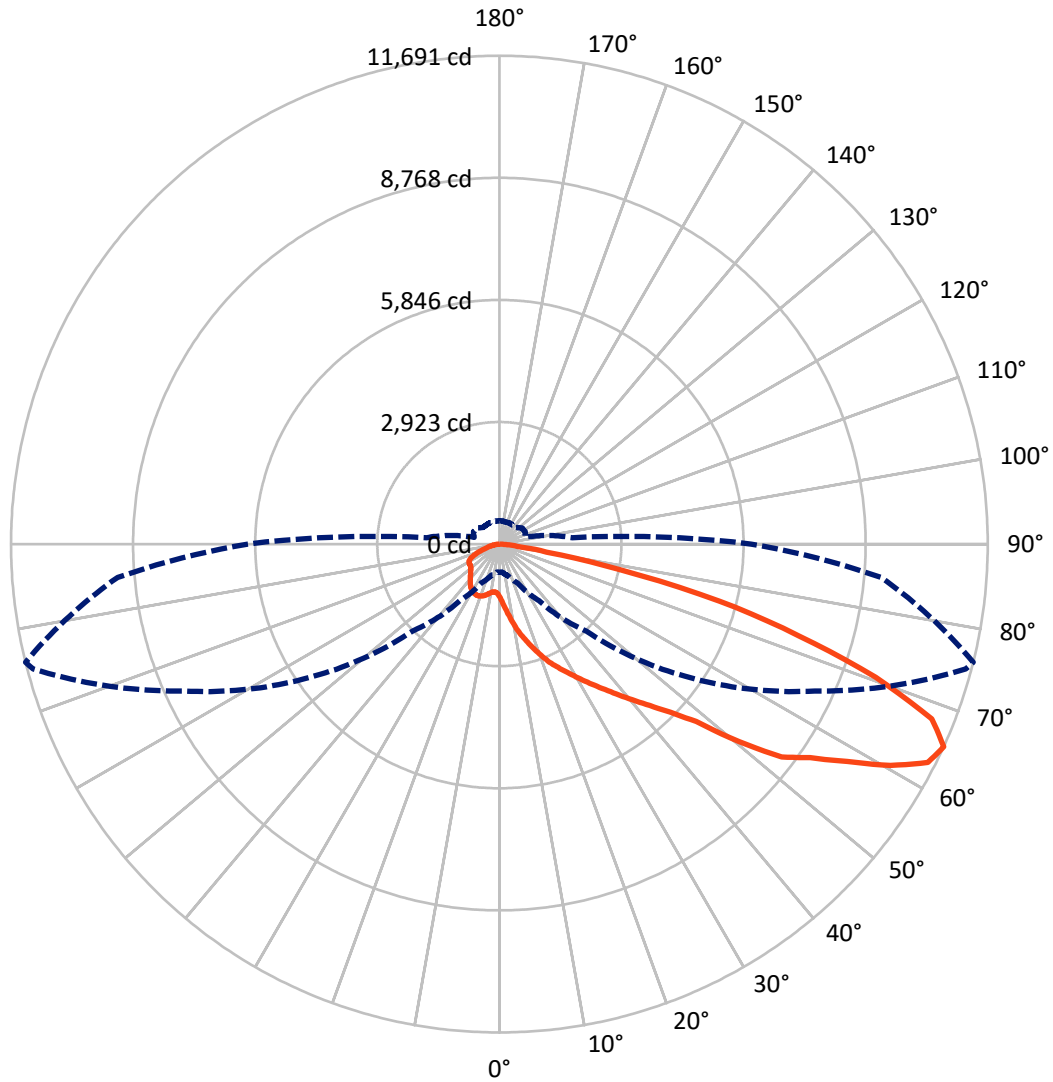
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2229.2	0.0	2229.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	11107.0	0.0	11107.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	13336.2	0.0	13336.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.1
10°-20°	571.5	4.3
20°-30°	1113.7	8.4
30°-40°	1862.7	14.0
40°-50°	2667.0	20.0
50°-60°	3157.3	23.7
60°-70°	2625.3	19.7
70°-80°	1074.3	8.1
80°-90°	114.4	0.9
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°	13336.2	100.0
0°-180°	13336.2	100.0

Coefficient of Utilization



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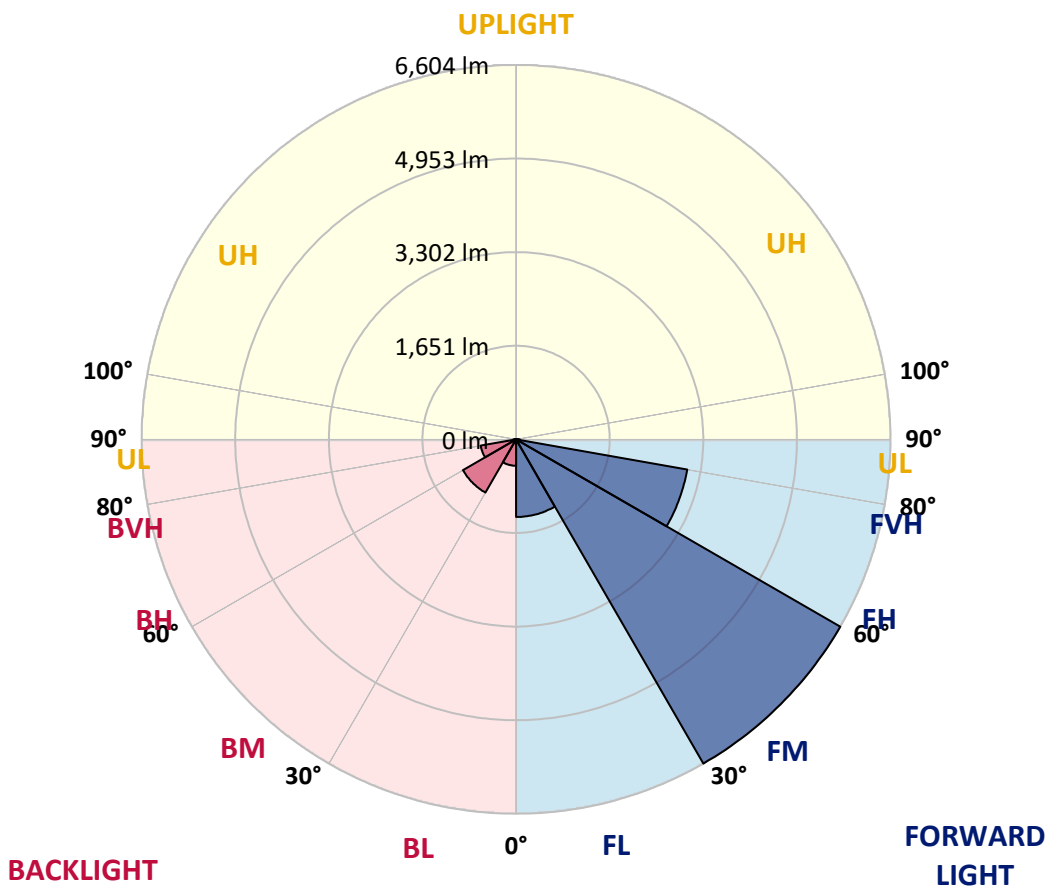
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1368.9	10.3			
FM (30°-60°)	6603.6	49.5			
FH (60°-80°)	3066.3	23.0			G2/5000
FVH (80°-90°)	68.2	0.5			G1/100
BL (0°-30°)	466.3	3.5	B1/500		
BM (30°-60°)	1083.3	8.1	B2/2500		
BH (60°-80°)	633.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	46.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1770.1	1776.7	1755.1	1747.6	1697.0	1628.5	1571.3	1485.1	1405.4	1393.2	1322.0
5°	2248.3	2220.1	2195.8	2179.8	2109.5	2031.7	1910.7	1748.5	1578.8	1558.2	1404.5
7.5°	2532.3	2527.7	2497.7	2488.3	2433.9	2356.1	2231.4	2029.8	1783.2	1749.5	1516.0
10°	2760.2	2757.4	2742.4	2750.8	2701.1	2625.2	2504.2	2296.1	2007.3	1973.6	1640.7
12.5°	2958.9	2963.6	2960.8	2991.7	2966.4	2907.4	2781.7	2553.0	2231.4	2194.8	1792.6
15°	3104.3	3108.0	3122.1	3189.6	3203.6	3191.4	3063.9	2805.2	2452.6	2400.1	1949.2
17.5°	3145.5	3153.0	3186.8	3295.5	3371.5	3422.1	3327.4	3062.1	2670.2	2613.0	2108.6
20°	3200.8	3209.3	3243.0	3356.5	3468.0	3583.3	3566.5	3322.7	2889.5	2842.7	2269.8
22.5°	3456.8	3450.2	3435.2	3489.6	3569.3	3712.7	3754.9	3573.0	3116.4	3071.4	2448.0
25°	3949.9	3937.7	3842.1	3792.4	3766.2	3853.4	3928.4	3800.9	3337.7	3270.2	2613.9
27.5°	4493.7	4487.1	4365.3	4247.1	4085.9	4048.4	4092.4	3999.6	3552.4	3484.0	2758.3
30°	5008.4	4988.7	4861.2	4713.1	4497.5	4336.2	4271.5	4194.6	3787.7	3716.5	2927.1
32.5°	5468.8	5443.5	5293.4	5129.4	4903.4	4713.1	4520.0	4401.8	4054.0	3971.5	3099.6
35°	5846.6	5821.3	5667.5	5493.1	5244.7	5104.1	4839.7	4626.8	4324.9	4241.5	3303.0
37.5°	6139.1	6115.7	5955.4	5783.8	5567.2	5455.6	5225.9	4880.0	4637.2	4550.0	3518.7
40°	6303.2	6286.3	6157.9	6021.9	5840.0	5743.5	5640.3	5199.7	4986.9	4899.7	3772.7
42.5°	6352.9	6341.6	6251.6	6181.3	6058.5	5985.4	6044.4	5575.6	5360.0	5284.1	4058.7
45°	6228.2	6228.2	6201.9	6237.6	6243.2	6242.3	6449.5	6000.4	5818.5	5735.0	4461.8
47.5°	5909.4	5930.0	5968.5	6143.8	6328.5	6483.2	6922.9	6566.6	6408.2	6339.8	5032.8
50°	5326.3	5382.5	5513.8	5856.0	6248.8	6642.6	7371.1	7403.9	7554.8	7433.9	5872.9
52.5°	4472.1	4463.7	4798.4	5285.9	5885.0	6649.2	7617.6	8142.7	8548.6	8465.2	6497.3
55°	3554.3	3540.2	3852.4	4524.6	5327.2	6397.9	7765.8	8481.1	9099.9	9024.9	7058.9
57.5°	2721.7	2703.9	2981.4	3588.0	4539.6	5864.4	7737.7	8884.3	9858.4	9820.0	7822.0
60°	1873.2	1851.7	2111.4	2642.0	3607.7	5048.7	7426.4	9091.5	10746.3	10759.4	8638.6
62.5°	1125.1	1112.9	1301.3	1712.9	2595.2	4038.1	6697.9	8965.9	11453.2	11512.3	9163.7
65°	678.8	670.4	781.0	1021.9	1646.3	2946.7	5574.7	8323.6	11555.4	11691.3	9175.9
67.5°	494.1	495.0	526.9	622.5	960.1	1903.2	4183.4	7172.3	11022.9	11163.5	8597.4
70°	429.4	431.3	448.2	469.7	580.3	1089.4	2719.9	5661.9	9448.7	9557.5	7210.7
72.5°	381.6	381.6	392.8	404.1	453.8	663.8	1457.0	3957.4	7457.3	7486.4	5503.5
75°	335.6	332.8	338.5	344.1	393.8	464.1	708.8	2757.4	5508.1	5440.6	3557.1
77.5°	267.2	264.4	265.3	271.0	316.0	331.9	359.1	1722.3	3104.3	2929.9	1571.3
80°	190.3	188.4	198.8	212.8	233.5	203.4	225.0	833.5	1231.0	1145.7	609.4
82.5°	113.4	117.2	133.1	144.4	161.3	127.5	145.3	278.5	436.0	424.7	247.5
85°	15.9	16.9	47.8	55.3	69.4	49.7	76.9	125.6	174.4	186.6	87.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	22.5	49.7	50.6	21.6
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°	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9	1262.9
2.5°	1285.4	1241.3	1178.5	1126.0	1081.9	1046.3	1016.3	993.8	987.2	977.9	977.9
5°	1332.3	1252.6	1140.1	1060.4	1014.4	987.2	968.5	959.1	954.4	948.8	946.0
7.5°	1397.0	1285.4	1133.5	1052.9	1017.2	1000.4	988.2	982.6	978.8	973.2	973.2
10°	1486.0	1334.1	1154.1	1079.1	1051.0	1034.1	1020.1	1010.7	1002.2	993.8	991.9
12.5°	1582.6	1397.9	1191.6	1114.8	1084.8	1064.1	1044.4	1030.4	1020.1	1009.7	1006.9
15°	1689.5	1463.5	1231.9	1149.4	1111.9	1083.8	1060.4	1038.8	1024.7	1009.7	1007.9
17.5°	1794.5	1530.1	1265.7	1172.9	1125.1	1090.4	1056.6	1028.5	1010.7	993.8	989.1
20°	1920.1	1596.7	1289.1	1179.4	1122.3	1076.3	1036.0	1000.4	980.7	961.0	958.2
22.5°	2035.4	1658.5	1300.4	1170.1	1100.7	1046.3	999.4	961.0	939.4	919.7	916.0
25°	2147.0	1712.9	1295.7	1147.6	1067.9	1005.1	956.3	917.9	897.2	876.6	871.0
27.5°	2254.8	1749.5	1277.0	1112.9	1026.6	959.1	912.2	877.6	859.7	841.9	834.4
30°	2360.8	1783.2	1247.9	1067.9	974.1	911.3	872.9	848.5	830.7	811.9	806.3
32.5°	2467.6	1807.6	1203.8	1015.4	920.7	869.1	845.7	827.9	809.1	790.4	784.7
35°	2575.5	1817.9	1150.4	955.4	875.7	841.9	833.5	812.9	787.5	765.0	757.5
37.5°	2703.9	1827.3	1083.8	896.3	836.3	828.8	826.9	796.0	766.0	735.0	726.6
40°	2858.6	1839.5	1015.4	842.9	804.4	824.1	816.6	774.4	714.4	684.4	675.0
42.5°	3048.0	1862.0	944.1	794.1	781.0	806.3	797.9	721.9	681.6	664.7	660.0
45°	3326.5	1944.5	872.9	755.7	763.2	781.0	767.9	691.0	675.0	663.8	658.2
47.5°	3822.4	2071.1	811.0	726.6	749.1	758.5	707.9	682.5	670.4	655.4	648.8
50°	4338.1	2126.4	761.3	708.8	733.2	737.9	675.0	671.3	662.9	646.9	640.4
52.5°	4686.8	2118.9	731.3	702.2	720.0	702.2	660.0	659.1	653.5	634.7	627.2
55°	5080.6	2132.0	718.2	704.1	714.4	642.2	641.3	644.1	641.3	620.7	616.9
57.5°	5612.2	2172.3	711.6	710.7	710.7	613.2	623.5	627.2	621.6	612.2	609.4
60°	6123.2	2175.1	699.4	718.2	707.9	595.3	602.8	606.6	600.0	598.2	597.2
62.5°	6315.4	2040.1	672.2	712.5	696.6	575.7	581.3	583.2	576.6	581.3	580.3
65°	6029.4	1753.2	627.2	685.4	661.9	557.8	554.1	558.8	547.5	559.7	560.7
67.5°	5353.4	1393.2	558.8	633.8	613.2	538.2	530.7	530.7	511.9	530.7	529.7
70°	4316.5	984.4	458.5	551.3	559.7	514.7	511.0	489.4	459.4	487.5	484.7
72.5°	3272.1	706.9	361.0	436.0	481.9	481.9	482.8	446.3	411.6	424.7	413.5
75°	2072.9	497.8	288.8	333.8	377.8	422.8	444.4	376.9	346.0	340.3	334.7
77.5°	933.8	327.2	225.0	256.0	268.1	333.8	406.0	324.4	282.2	270.0	266.3
80°	391.0	203.4	160.3	180.9	165.0	280.3	358.1	252.2	207.2	190.3	178.1
82.5°	171.6	120.9	102.2	97.5	103.1	208.1	267.2	167.8	129.4	175.3	177.2
85°	72.2	63.8	52.5	47.8	42.2	79.7	125.6	65.6	80.6	45.9	37.5
87.5°	16.9	18.8	14.1	9.4	5.6	0.9	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)