

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: P639235

Luminaire Tested: GWS-SA5B-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639235
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-SA5B-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18081 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

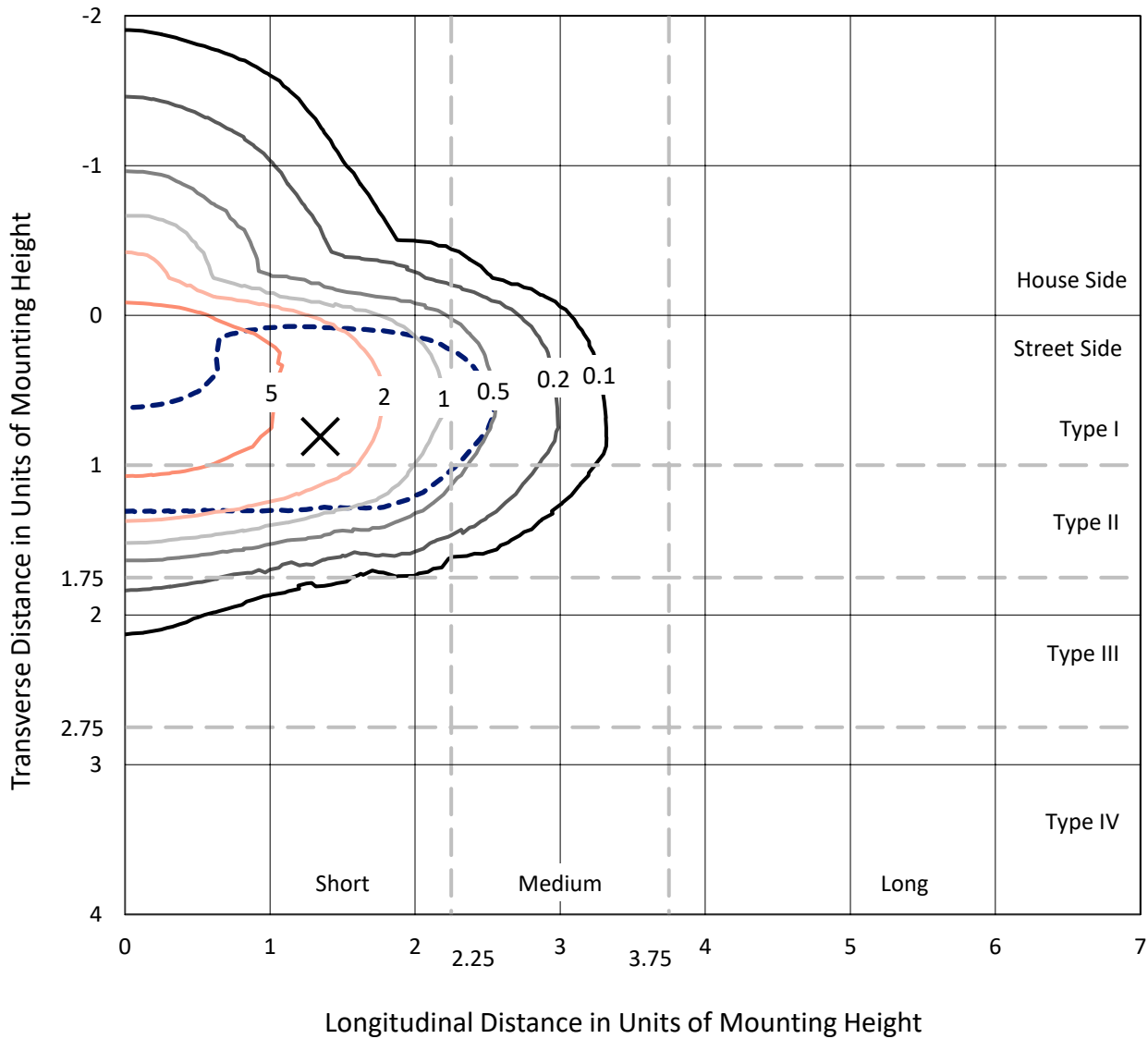
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

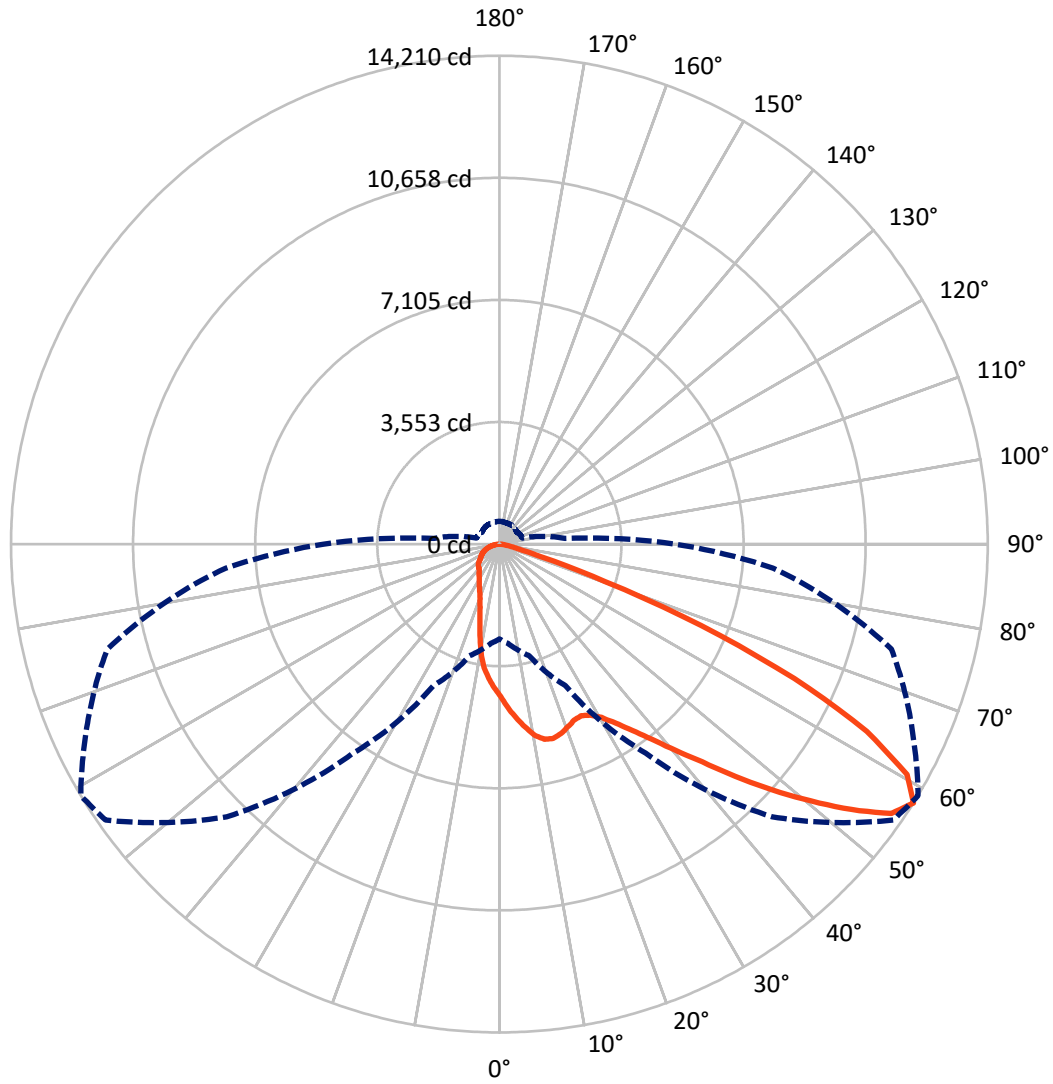
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2806.1	0.0	2806.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15274.9	0.0	15274.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	18081.0	0.0	18081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.1	2.3
10°-20°	1044.3	5.8
20°-30°	1692.9	9.4
30°-40°	2723.2	15.1
40°-50°	4228.9	23.4
50°-60°	4555.0	25.2
60°-70°	2643.6	14.6
70°-80°	690.1	3.8
80°-90°	90.9	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°	18081.0	100.0
0°-180°	18081.0	100.0

Coefficient of Utilization



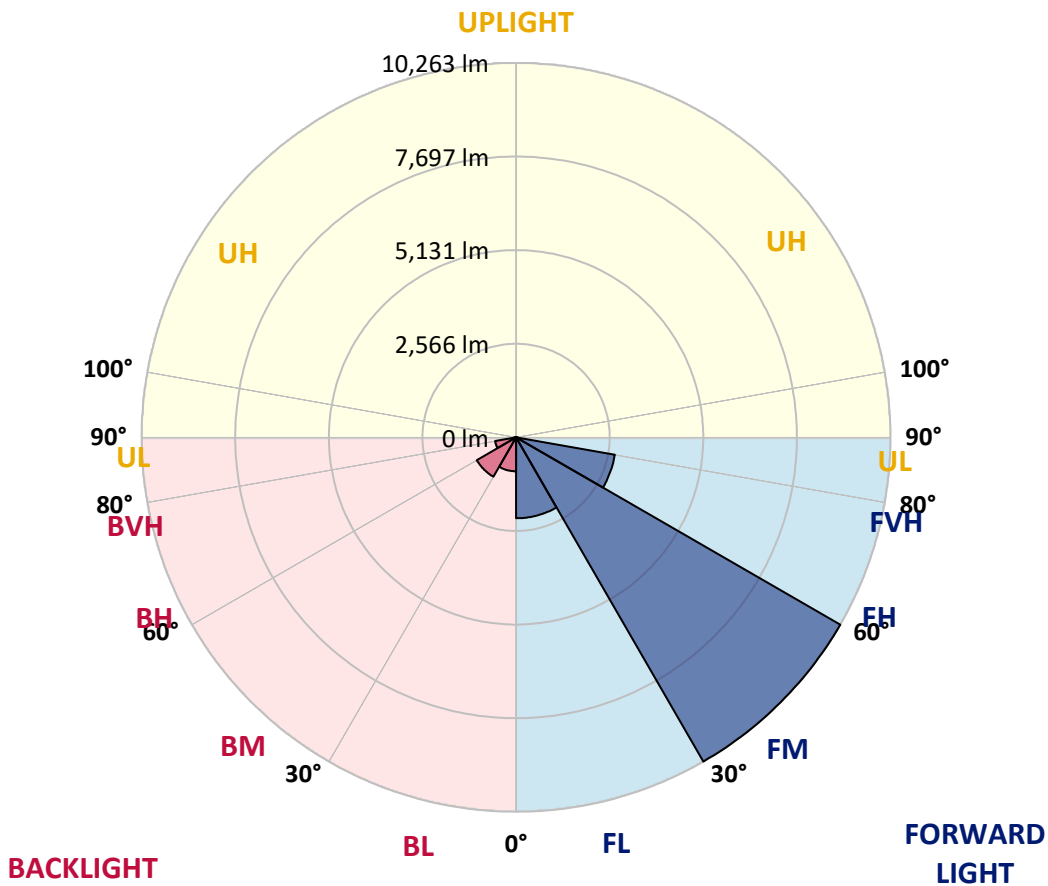
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.4	12.3			
FM (30°-60°)	10263.0	56.8			
FH (60°-80°)	2750.0	15.2			G2/5000
FVH (80°-90°)	43.5	0.2			G1/100
BL (0°-30°)	930.9	5.1	B2/1000		
BM (30°-60°)	1244.1	6.9	B2/2500		
BH (60°-80°)	583.6	3.2	B2/1000		G2/1000
BVH (80°-90°)	47.4	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°	59°	65°	75°	85°
0°	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5
2.5°	5034.2	4992.2	5021.5	4969.3	4947.7	4890.4	4816.6	4766.9	4690.6	4591.3	4504.7
5°	5534.5	5505.2	5511.6	5455.6	5405.9	5310.4	5159.0	5075.0	4945.1	4745.3	4559.4
7.5°	5519.2	5553.6	5572.7	5621.0	5635.0	5626.1	5489.9	5372.8	5230.3	4929.9	4649.8
10°	4947.7	5012.6	5071.1	5236.6	5437.7	5692.3	5724.1	5654.1	5510.3	5165.3	4758.0
12.5°	4325.2	4374.9	4427.1	4625.6	4933.7	5442.8	5787.8	5831.1	5773.8	5398.3	4880.2
15°	4019.7	4042.7	4092.3	4223.4	4469.1	5034.2	5677.0	5866.7	5969.8	5645.2	5017.7
17.5°	4007.0	4017.2	4041.4	4111.4	4282.0	4718.6	5477.2	5795.4	6123.8	5906.2	5178.1
20°	4270.5	4243.8	4228.5	4227.2	4311.2	4612.9	5283.7	5680.9	6196.4	6173.5	5349.9
22.5°	4635.8	4644.7	4611.6	4530.2	4520.0	4688.0	5187.0	5565.0	6218.0	6410.2	5509.0
25°	5153.9	5198.4	5100.4	4945.1	4868.8	4905.7	5246.8	5529.4	6215.5	6607.5	5608.3
27.5°	5758.5	5792.9	5693.6	5489.9	5332.1	5243.0	5425.0	5635.0	6237.1	6778.1	5668.1
30°	6447.1	6458.6	6322.4	6108.5	5878.1	5687.2	5721.6	5852.7	6347.8	7002.1	5738.1
32.5°	7288.5	7336.9	7130.7	6792.1	6470.0	6225.6	6120.0	6204.0	6587.1	7266.9	5846.3
35°	8356.4	8373.0	8110.8	7625.8	7170.1	6831.5	6610.1	6654.6	6951.2	7637.3	6009.3
37.5°	9363.3	9379.8	9101.1	8650.5	7998.8	7535.4	7214.7	7194.3	7417.1	8160.4	6275.3
40°	10002.3	10049.4	9924.6	9642.0	9019.6	8394.6	7959.3	7889.3	8028.0	8800.7	6645.7
42.5°	10345.9	10366.3	10363.8	10400.7	10030.3	9409.1	8799.4	8659.4	8752.3	9491.8	7019.9
45°	10348.5	10399.4	10535.6	10890.7	10907.3	10520.3	9861.0	9642.0	9556.8	10188.1	7410.7
47.5°	9885.2	9939.9	10314.1	11012.9	11528.5	11616.3	11132.6	10693.4	10334.5	10787.6	7731.5
50°	8482.5	8619.9	9332.7	10568.7	11650.6	12494.6	12345.6	11749.9	11025.7	11251.0	7932.6
52.5°	7264.3	7259.2	7698.4	9313.6	11140.2	12881.5	13519.2	12837.0	11709.2	11545.0	7983.5
55°	5319.4	5348.6	5798.0	7123.0	9778.2	12507.3	14164.6	13837.5	12493.3	11701.6	7963.1
57.5°	2758.3	2903.4	3364.2	4545.4	7429.8	11219.1	13992.7	14210.4	13290.1	11812.3	7989.9
60°	1393.8	1365.8	1531.3	2170.3	4304.9	8762.5	12933.7	13627.4	13433.9	11898.9	8006.4
62.5°	930.5	922.8	877.0	1005.6	1759.1	5189.5	11025.7	11998.1	12434.7	11695.2	7795.1
65°	805.7	790.5	706.4	701.4	854.1	2152.4	8081.5	9432.0	10277.2	10790.2	7289.8
67.5°	725.5	702.6	617.3	575.3	613.5	945.7	4554.4	6326.2	7588.9	9125.3	6182.4
70°	647.9	636.4	551.2	490.1	486.2	576.6	1677.7	3264.9	4643.5	6225.6	4520.0
72.5°	580.4	560.1	487.5	429.0	399.7	408.6	728.1	1257.6	2403.2	3883.5	2703.6
75°	502.8	487.5	423.9	365.3	329.7	299.1	444.2	581.7	1095.9	1845.7	1276.7
77.5°	388.2	378.0	334.8	290.2	269.9	222.8	269.9	366.6	506.6	777.7	664.4
80°	225.3	231.7	249.5	226.6	198.6	159.1	175.7	211.3	304.2	421.3	376.8
82.5°	113.3	120.9	161.7	131.1	118.4	92.9	104.4	124.7	159.1	232.9	147.7
85°	8.9	8.9	29.3	33.1	40.7	33.1	42.0	50.9	72.6	92.9	49.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.4	11.5	21.6	14.0
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°	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5	4438.5
2.5°	4446.2	4381.2	4303.6	4240.0	4141.9	4089.8	4023.6	3942.1	3909.0	3893.7	3884.8
5°	4455.1	4340.5	4175.0	4022.3	3853.0	3719.3	3570.4	3415.1	3326.0	3304.4	3289.1
7.5°	4488.2	4327.8	4064.3	3812.3	3497.9	3206.4	2922.5	2641.2	2497.4	2442.7	2437.6
10°	4534.0	4322.7	3952.3	3533.5	3002.7	2541.9	2209.7	1989.5	1896.6	1866.0	1855.9
12.5°	4591.3	4318.9	3804.6	3146.6	2431.2	1995.9	1806.2	1770.6	1783.3	1780.8	1780.8
15°	4663.8	4324.0	3626.4	2708.7	1966.6	1732.4	1736.2	1778.2	1817.7	1824.0	1824.0
17.5°	4742.7	4318.9	3368.0	2269.5	1687.8	1670.0	1728.6	1787.1	1822.8	1827.9	1827.9
20°	4828.0	4294.7	3042.2	1855.9	1565.6	1630.6	1694.2	1740.0	1761.7	1766.8	1766.8
22.5°	4878.9	4226.0	2688.3	1570.7	1488.0	1568.2	1610.2	1657.3	1659.8	1619.1	1617.8
25°	4871.3	4097.4	2284.8	1387.4	1405.3	1475.3	1528.7	1495.6	1454.9	1432.0	1428.2
27.5°	4822.9	3903.9	1873.7	1248.7	1307.2	1386.2	1369.6	1341.6	1331.4	1306.0	1303.4
30°	4761.8	3665.9	1504.5	1140.5	1205.4	1278.0	1252.5	1250.0	1239.8	1211.8	1211.8
32.5°	4703.3	3420.2	1225.8	1060.3	1140.5	1145.6	1181.2	1183.8	1178.7	1130.3	1125.2
35°	4686.7	3174.6	1037.4	996.7	1076.9	1074.3	1125.2	1124.0	1036.1	968.7	967.4
37.5°	4736.4	2925.1	925.4	944.5	989.0	1022.1	1062.9	989.0	959.7	919.0	916.5
40°	4842.0	2694.7	868.1	913.9	933.0	981.4	917.7	922.8	915.2	884.6	880.8
42.5°	4982.0	2498.7	836.3	903.7	901.2	913.9	843.9	864.3	875.7	852.8	849.0
45°	5117.0	2328.1	819.7	865.6	878.3	804.5	790.5	809.6	827.4	818.5	814.6
47.5°	5216.3	2180.4	810.8	813.4	849.0	767.5	744.6	753.5	775.2	779.0	777.7
50°	5246.8	2054.4	800.6	770.1	762.5	730.6	712.8	710.3	735.7	753.5	756.1
52.5°	5188.2	1942.4	773.9	731.9	695.0	700.1	693.7	681.0	706.4	730.6	733.2
55°	5101.7	1878.8	731.9	695.0	651.7	672.1	674.6	663.2	679.7	696.3	696.3
57.5°	5108.1	1915.7	691.2	660.6	613.5	640.3	654.3	649.2	649.2	661.9	663.2
60°	5150.1	1969.1	664.4	617.3	575.3	603.3	635.2	630.1	618.6	635.2	635.2
62.5°	5029.1	1897.9	646.6	575.3	534.6	567.7	605.9	603.3	590.6	617.3	619.9
65°	4672.7	1706.9	626.3	523.2	493.9	532.1	565.2	574.1	562.6	598.3	604.6
67.5°	3916.6	1435.8	586.8	473.5	453.1	488.8	520.6	533.3	524.4	566.4	571.5
70°	2920.0	1162.1	524.4	418.8	403.5	435.3	464.6	469.7	471.0	520.6	525.7
72.5°	1862.2	903.7	441.7	357.7	346.2	370.4	392.0	412.4	421.3	468.4	467.1
75°	1038.7	672.1	355.1	302.9	282.6	301.7	327.1	351.3	376.8	445.5	453.1
77.5°	598.3	472.2	281.3	243.1	218.9	239.3	260.9	295.3	371.7	431.5	423.9
80°	337.3	306.8	212.6	178.2	162.9	178.2	194.8	259.7	292.8	318.2	322.0
82.5°	157.8	171.8	145.1	109.5	109.5	119.7	134.9	201.1	221.5	180.7	157.8
85°	57.3	77.6	71.3	56.0	49.6	48.4	84.0	114.6	71.3	63.6	54.7
87.5°	15.3	21.6	20.4	14.0	7.6	6.4	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)