

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: P635385

Luminaire Tested: GWS-SA3D-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635385  
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-SA3D-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

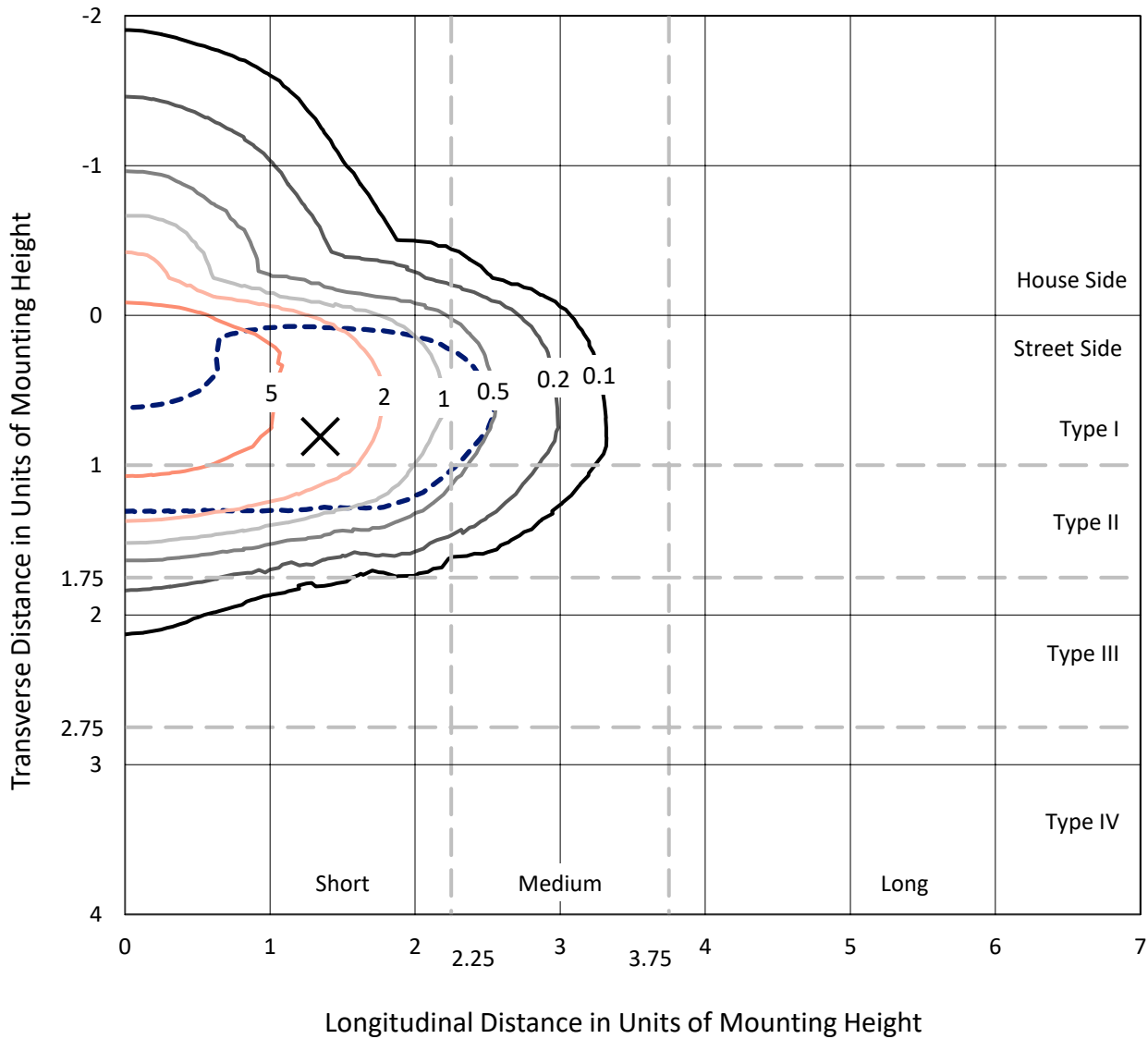
Lumens per Lamp: N/A  
Luminaire Lumens: 18079.9 lumens  
Efficiency: N/A  
Efficacy: 149.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

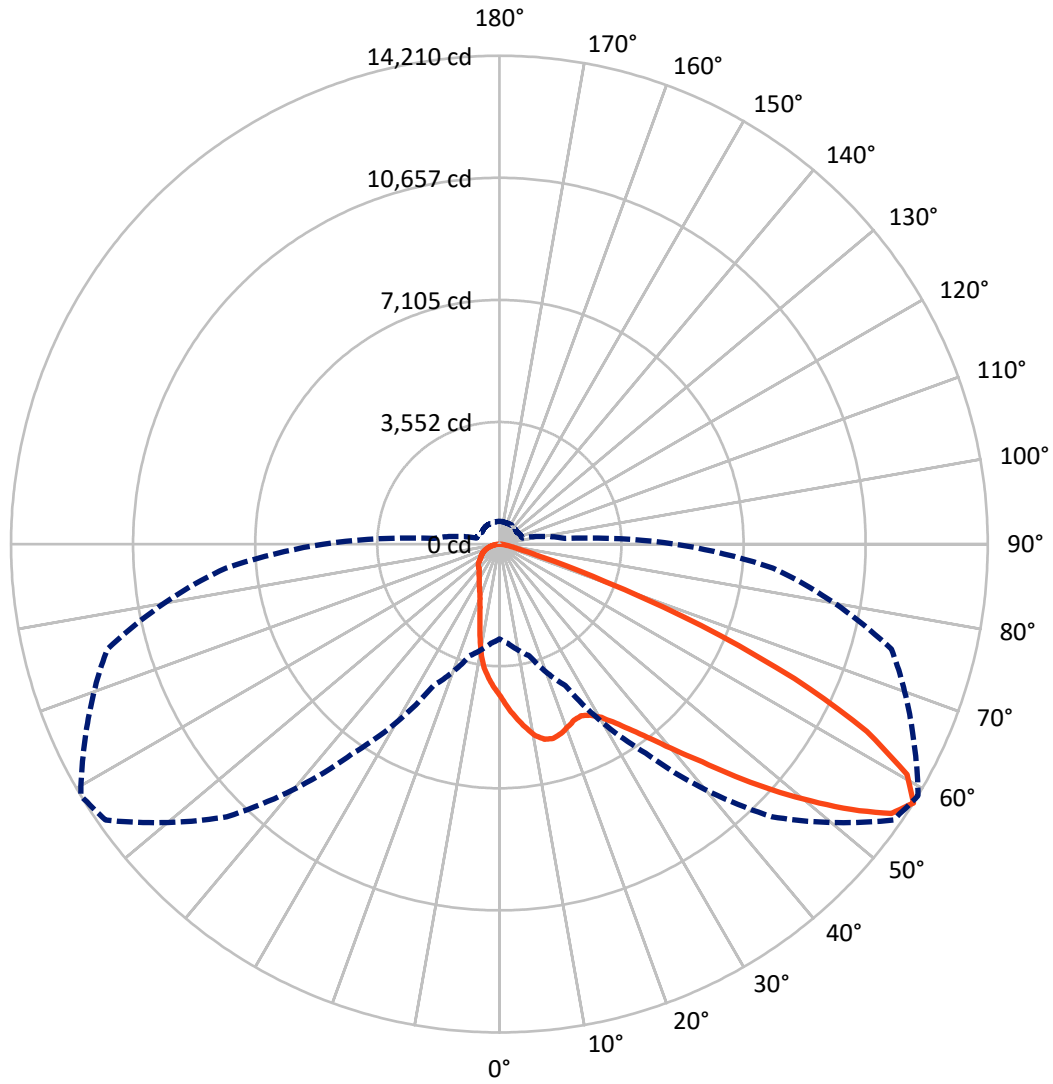
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2805.9	0.0	2805.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	15274.0	0.0	15274.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	18079.9	0.0	18079.9
	% 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°	1692.8	9.4
30°-40°	2723.0	15.1
40°-50°	4228.6	23.4
50°-60°	4554.8	25.2
60°-70°	2643.4	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°	18079.9	100.0
0°-180°	18079.9	100.0

**Coefficient of Utilization**



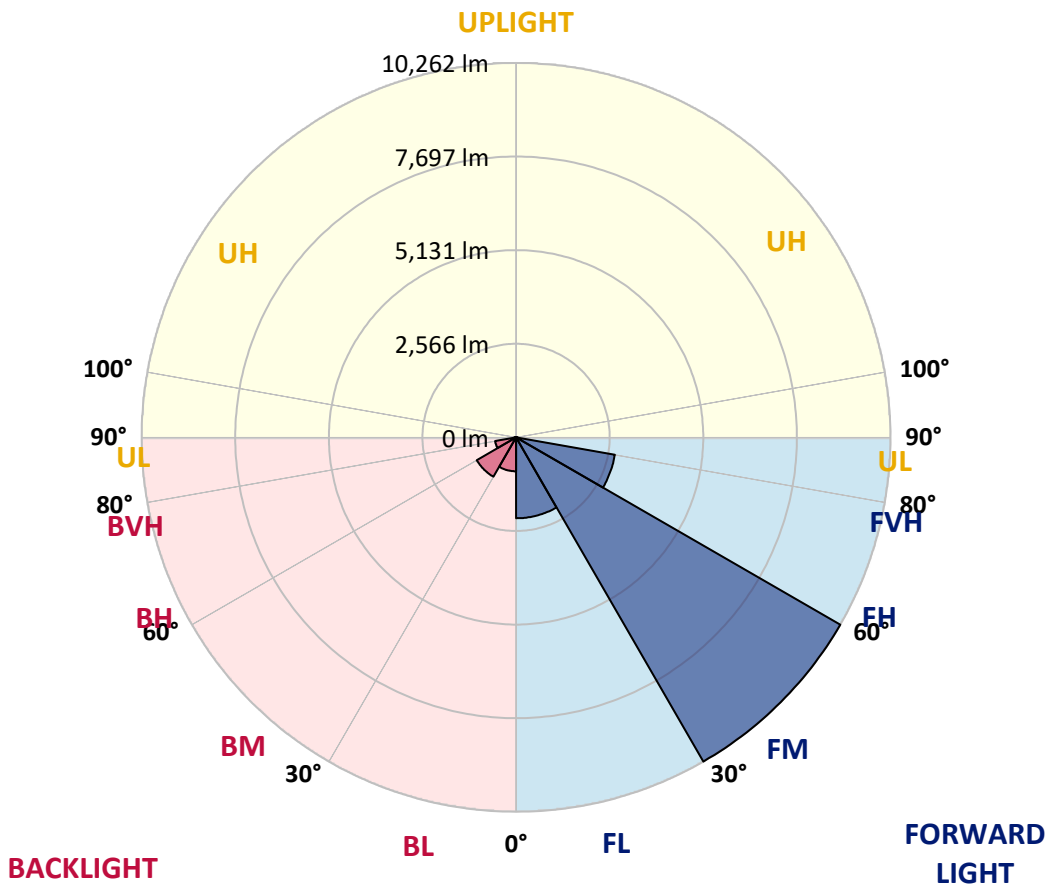
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2218.2	12.3			
FM (30°-60°)	10262.4	56.8			
FH (60°-80°)	2749.9	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°)	1244.0	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 </tr			

**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°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	5033.9	4991.9	5021.2	4969.0	4947.4	4890.1	4816.3	4766.6	4690.3	4591.0	4504.4
5°	5534.1	5504.9	5511.2	5455.2	5405.6	5310.1	5158.7	5074.7	4944.8	4745.0	4559.2
7.5°	5518.9	5553.2	5572.3	5620.7	5634.7	5625.8	5489.6	5372.5	5229.9	4929.6	4649.5
10°	4947.4	5012.3	5070.8	5236.3	5437.4	5692.0	5723.8	5653.8	5510.0	5165.0	4757.7
12.5°	4325.0	4374.6	4426.8	4625.4	4933.4	5442.5	5787.4	5830.7	5773.4	5397.9	4879.9
15°	4019.5	4042.4	4092.1	4223.2	4468.8	5033.9	5676.7	5866.3	5969.4	5644.9	5017.4
17.5°	4006.8	4017.0	4041.1	4111.1	4281.7	4718.3	5476.9	5795.1	6123.4	5905.8	5177.8
20°	4270.2	4243.5	4228.2	4227.0	4311.0	4612.6	5283.4	5680.5	6196.0	6173.1	5349.6
22.5°	4635.5	4644.4	4611.4	4529.9	4519.7	4687.7	5186.7	5564.7	6217.6	6409.8	5508.7
25°	5153.6	5198.1	5100.1	4944.8	4868.5	4905.4	5246.5	5529.0	6215.1	6607.1	5608.0
27.5°	5758.1	5792.5	5693.2	5489.6	5331.8	5242.7	5424.7	5634.7	6236.7	6777.7	5667.8
30°	6446.7	6458.2	6322.0	6108.2	5877.8	5686.9	5721.2	5852.3	6347.5	7001.7	5737.8
32.5°	7288.1	7336.4	7130.2	6791.7	6469.6	6225.3	6119.6	6203.6	6586.7	7266.4	5846.0
35°	8355.9	8372.5	8110.3	7625.3	7169.7	6831.1	6609.7	6654.2	6950.8	7636.8	6008.9
37.5°	9362.7	9379.3	9100.5	8649.9	7998.3	7535.0	7214.2	7193.9	7416.6	8159.9	6274.9
40°	10001.7	10048.8	9924.0	9641.5	9019.1	8394.1	7958.8	7888.8	8027.6	8800.1	6645.3
42.5°	10345.3	10365.7	10363.1	10400.0	10029.7	9408.5	8798.9	8658.9	8751.8	9491.3	7019.5
45°	10347.9	10398.8	10535.0	10890.1	10906.6	10519.7	9860.4	9641.5	9556.2	10187.5	7410.2
47.5°	9884.6	9939.3	10313.5	11012.3	11527.8	11615.6	11131.9	10692.8	10333.9	10787.0	7731.0
50°	8481.9	8619.4	9332.2	10568.1	11649.9	12493.8	12344.9	11749.2	11025.0	11250.3	7932.1
52.5°	7263.9	7258.8	7697.9	9313.1	11139.5	12880.7	13518.4	12836.2	11708.5	11544.3	7983.0
55°	5319.0	5348.3	5797.6	7122.6	9777.7	12506.5	14163.7	13836.6	12492.5	11700.9	7962.6
57.5°	2758.2	2903.3	3364.0	4545.2	7429.3	11218.5	13991.9	14209.5	13289.3	11811.6	7989.4
60°	1393.7	1365.7	1531.2	2170.1	4304.6	8762.0	12932.9	13626.6	13433.1	11898.1	8005.9
62.5°	930.4	922.8	877.0	1005.5	1759.0	5189.2	11025.0	11997.4	12434.0	11694.5	7794.6
65°	805.7	790.4	706.4	701.3	854.0	2152.3	8081.0	9431.4	10276.6	10789.5	7289.3
67.5°	725.5	702.6	617.3	575.3	613.5	945.7	4554.1	6325.8	7588.4	9124.7	6182.0
70°	647.9	636.4	551.1	490.0	486.2	576.6	1677.6	3264.7	4643.2	6225.3	4519.7
72.5°	580.4	560.0	487.5	428.9	399.7	408.6	728.0	1257.5	2403.0	3883.3	2703.4
75°	502.8	487.5	423.8	365.3	329.7	299.1	444.2	581.7	1095.9	1845.6	1276.6
77.5°	388.2	378.0	334.7	290.2	269.8	222.7	269.8	366.6	506.6	777.7	664.4
80°	225.3	231.6	249.5	226.6	198.6	159.1	175.6	211.3	304.2	421.3	376.7
82.5°	113.3	120.9	161.6	131.1	118.4	92.9	104.4	124.7	159.1	232.9	147.6
85°	8.9	8.9	29.3	33.1	40.7	33.1	42.0	50.9	72.5	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°	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3	4438.3
2.5°	4445.9	4381.0	4303.3	4239.7	4141.7	4089.5	4023.3	3941.9	3908.8	3893.5	3884.6
5°	4454.8	4340.2	4174.8	4022.0	3852.8	3719.1	3570.2	3414.9	3325.8	3304.2	3288.9
7.5°	4487.9	4327.5	4064.1	3812.0	3497.7	3206.2	2922.3	2641.1	2497.2	2442.5	2437.4
10°	4533.7	4322.4	3952.0	3533.3	3002.5	2541.8	2209.6	1989.4	1896.5	1865.9	1855.7
12.5°	4591.0	4318.6	3804.4	3146.4	2431.0	1995.8	1806.1	1770.5	1783.2	1780.6	1780.6
15°	4663.5	4323.7	3626.2	2708.5	1966.5	1732.3	1736.1	1778.1	1817.6	1823.9	1823.9
17.5°	4742.5	4318.6	3367.8	2269.4	1687.7	1669.9	1728.5	1787.0	1822.6	1827.7	1827.7
20°	4827.7	4294.4	3042.0	1855.7	1565.5	1630.5	1694.1	1739.9	1761.6	1766.6	1766.6
22.5°	4878.6	4225.7	2688.2	1570.6	1487.9	1568.1	1610.1	1657.2	1659.7	1619.0	1617.7
25°	4871.0	4097.1	2284.7	1387.4	1405.2	1475.2	1528.6	1495.5	1454.8	1431.9	1428.1
27.5°	4822.6	3903.7	1873.6	1248.6	1307.2	1386.1	1369.5	1341.5	1331.3	1305.9	1303.3
30°	4761.5	3665.7	1504.4	1140.4	1205.3	1277.9	1252.4	1249.9	1239.7	1211.7	1211.7
32.5°	4703.0	3420.0	1225.7	1060.2	1140.4	1145.5	1181.2	1183.7	1178.6	1130.2	1125.2
35°	4686.4	3174.4	1037.3	996.6	1076.8	1074.2	1125.2	1123.9	1036.1	968.6	967.3
37.5°	4736.1	2924.9	925.3	944.4	989.0	1022.1	1062.8	989.0	959.7	919.0	916.4
40°	4841.7	2694.5	868.0	913.9	933.0	981.3	917.7	922.8	915.1	884.6	880.8
42.5°	4981.7	2498.5	836.2	903.7	901.1	913.9	843.9	864.2	875.7	852.8	849.0
45°	5116.7	2328.0	819.7	865.5	878.2	804.4	790.4	809.5	827.3	818.4	814.6
47.5°	5215.9	2180.3	810.8	813.3	849.0	767.5	744.6	753.5	775.1	779.0	777.7
50°	5246.5	2054.3	800.6	770.0	762.4	730.6	712.8	710.2	735.7	753.5	756.0
52.5°	5187.9	1942.3	773.9	731.9	694.9	700.0	693.7	680.9	706.4	730.6	733.1
55°	5101.4	1878.7	731.9	694.9	651.7	672.0	674.6	663.1	679.7	696.2	696.2
57.5°	5107.7	1915.6	691.1	660.6	613.5	640.2	654.2	649.1	649.1	661.9	663.1
60°	5149.7	1969.0	664.4	617.3	575.3	603.3	635.1	630.0	618.6	635.1	635.1
62.5°	5028.8	1897.7	646.6	575.3	534.6	567.7	605.9	603.3	590.6	617.3	619.9
65°	4672.4	1706.8	626.2	523.1	493.8	532.0	565.1	574.0	562.6	598.2	604.6
67.5°	3916.4	1435.7	586.8	473.5	453.1	488.8	520.6	533.3	524.4	566.4	571.5
70°	2919.8	1162.1	524.4	418.8	403.5	435.3	464.6	469.7	470.9	520.6	525.7
72.5°	1862.1	903.7	441.7	357.7	346.2	370.4	392.0	412.4	421.3	468.4	467.1
75°	1038.6	672.0	355.1	302.9	282.6	301.7	327.1	351.3	376.7	445.5	453.1
77.5°	598.2	472.2	281.3	243.1	218.9	239.3	260.9	295.3	371.7	431.5	423.8
80°	337.3	306.7	212.6	178.2	162.9	178.2	194.7	259.7	292.7	318.2	322.0
82.5°	157.8	171.8	145.1	109.5	109.5	119.6	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)