

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: McGRAW-EDISON

Report Number: P193558

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-RW-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49144 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5

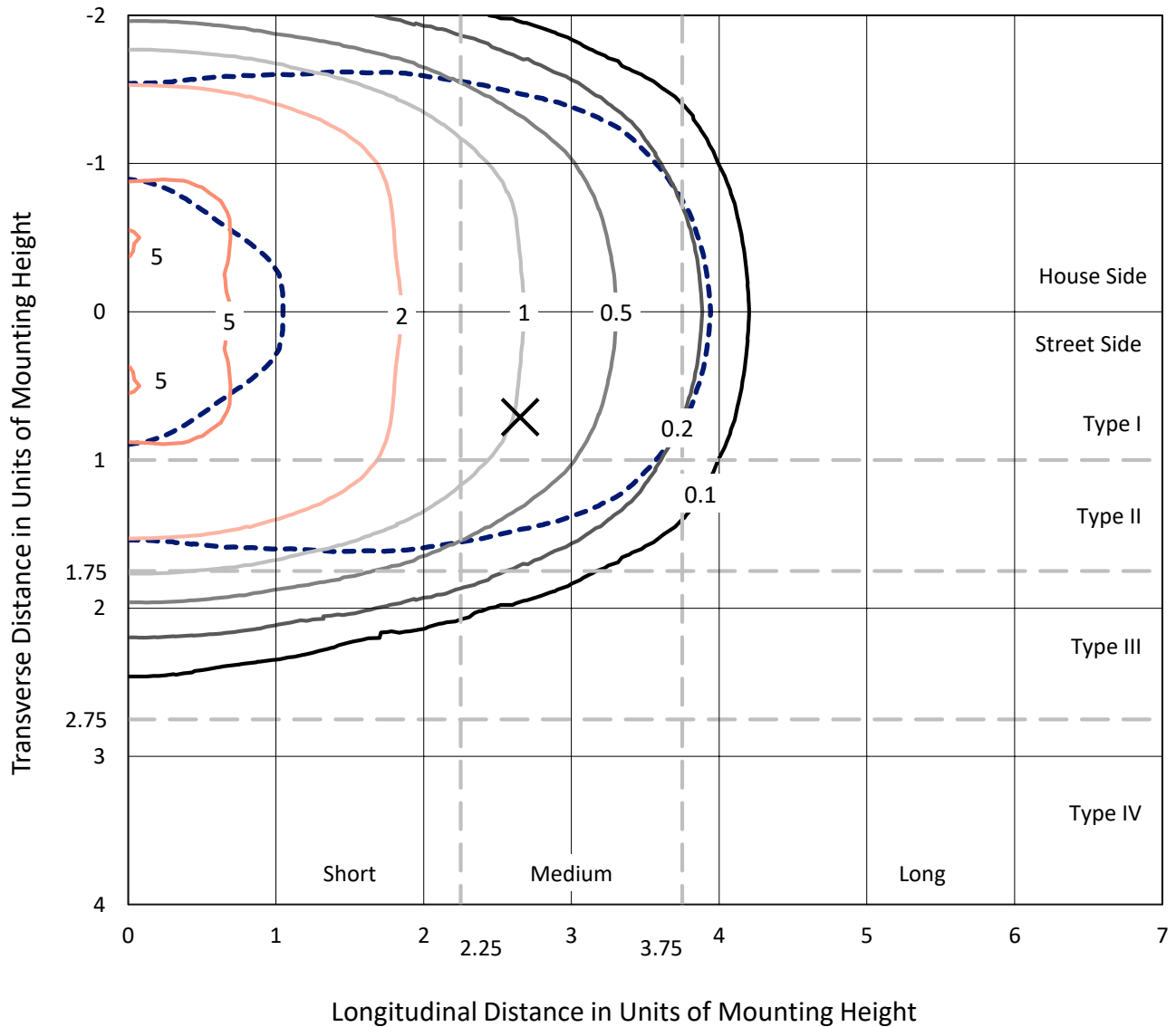
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

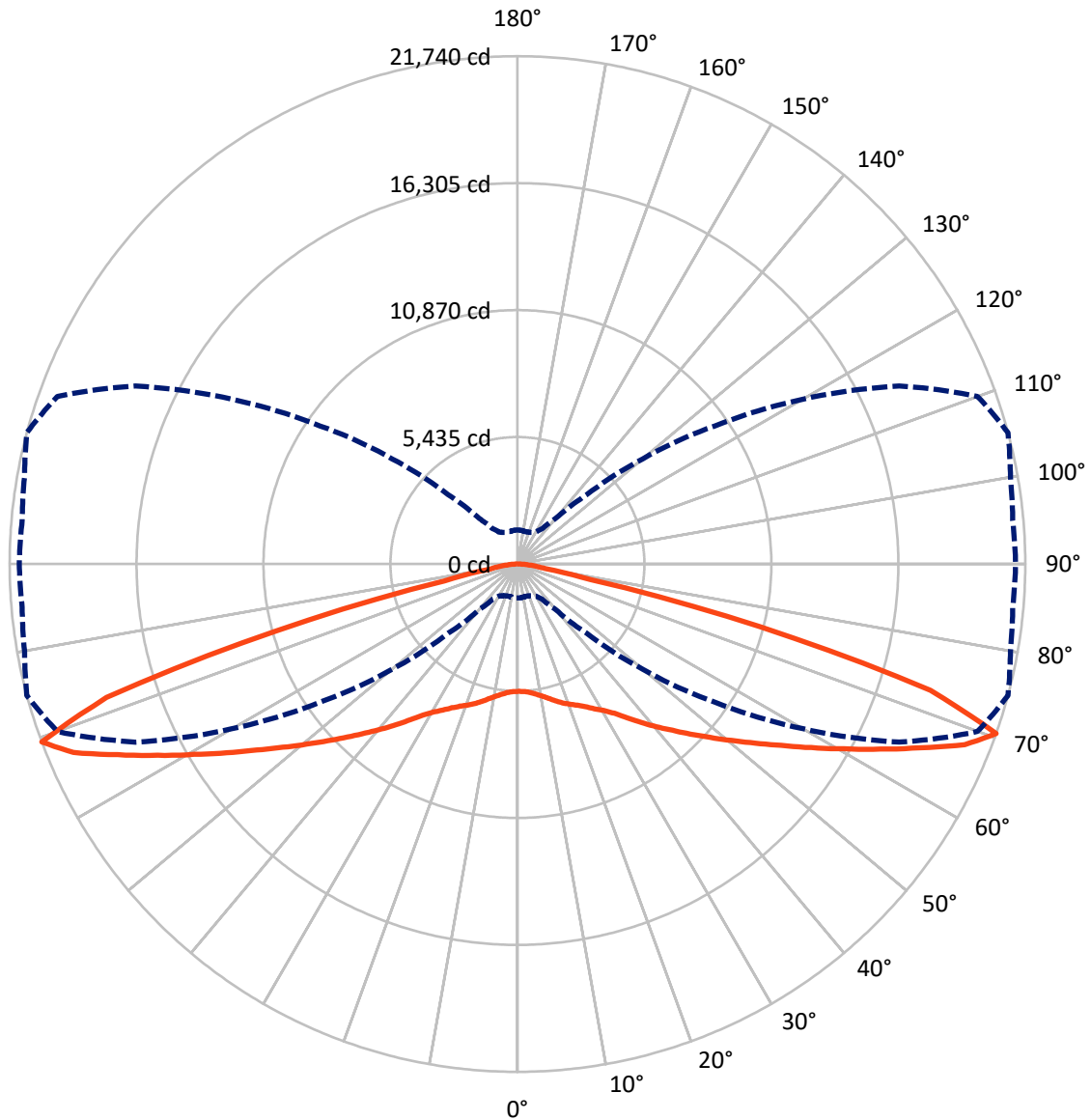
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24572.0	0.0	24572.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24572.0	0.0	24572.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49144.0	0.0	49144.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.8	1.1
10°-20°	1624.5	3.3
20°-30°	3057.5	6.2
30°-40°	5414.2	11.0
40°-50°	9054.3	18.4
50°-60°	12617.2	25.7
60°-70°	11700.4	23.8
70°-80°	4663.0	9.5
80°-90°	490.2	1.0
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°	49144.0	100.0
0°-180°	49144.0	100.0



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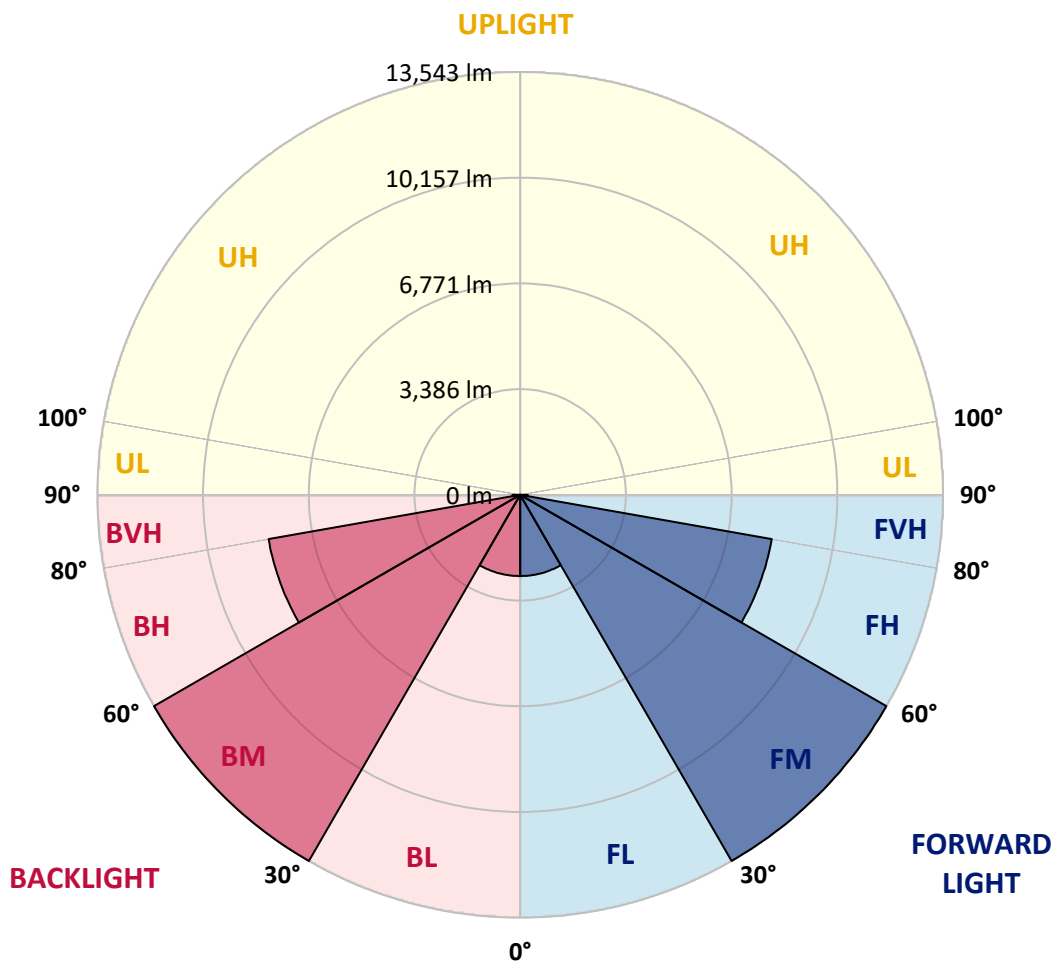
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2602.4	5.3			
FM	(30°-60°)	13542.9	27.6			
FH	(60°-80°)	8181.7	16.6			G4/12000
FVH	(80°-90°)	245.1	0.5			G3/500
BL	(0°-30°)	2602.4	5.3	B4/5000		
BM	(30°-60°)	13542.9	27.6	B5		
BH	(60°-80°)	8181.7	16.6	B5		G5
BVH	(80°-90°)	245.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2
2.5°	5441.9	5437.3	5441.9	5439.6	5444.2	5444.2	5448.9	5458.2	5458.2	5465.2	5462.8
5°	5388.5	5386.2	5393.1	5400.1	5407.1	5421.0	5435.0	5455.9	5472.1	5483.7	5495.3
7.5°	5284.0	5284.0	5293.3	5309.5	5325.8	5356.0	5388.5	5430.3	5472.1	5507.0	5537.2
10°	5198.0	5202.7	5214.3	5242.2	5270.0	5316.5	5360.6	5421.0	5479.1	5537.2	5583.6
12.5°	5147.0	5153.9	5174.8	5216.6	5263.1	5325.8	5393.1	5469.8	5534.8	5604.5	5651.0
15°	5163.2	5167.9	5198.0	5249.1	5309.5	5388.5	5479.1	5569.7	5646.3	5720.6	5783.4
17.5°	5253.8	5260.8	5295.6	5353.7	5416.4	5509.3	5606.8	5709.0	5804.3	5887.9	5964.5
20°	5416.4	5423.3	5467.5	5530.2	5604.5	5699.7	5797.3	5904.1	6011.0	6099.2	6185.2
22.5°	5646.3	5657.9	5699.7	5762.4	5846.1	5948.3	6064.4	6178.2	6280.4	6361.7	6438.3
25°	5948.3	5973.8	6013.3	6083.0	6171.2	6264.1	6389.6	6505.7	6603.2	6679.9	6735.6
27.5°	6375.6	6410.5	6440.7	6508.0	6593.9	6682.2	6807.6	6909.8	7002.7	7077.1	7118.9
30°	6942.3	6977.2	7007.4	7072.4	7151.4	7235.0	7353.4	7444.0	7502.1	7560.2	7557.8
32.5°	7629.8	7667.0	7678.6	7748.3	7829.6	7920.2	8027.0	8078.1	8124.6	8131.5	8089.7
35°	8398.6	8417.2	8463.7	8556.6	8649.5	8723.8	8826.0	8851.5	8851.5	8816.7	8723.8
37.5°	9241.7	9253.4	9318.4	9422.9	9518.1	9594.8	9664.5	9715.6	9690.0	9615.7	9460.1
40°	10166.2	10187.1	10280.0	10372.9	10479.7	10551.7	10626.0	10635.3	10609.8	10500.6	10289.3
42.5°	11048.8	11067.3	11160.2	11306.6	11445.9	11545.8	11615.5	11629.4	11548.1	11448.2	11185.8
45°	11808.3	11857.0	11977.8	12149.7	12351.8	12493.4	12588.7	12628.1	12556.1	12426.1	12121.8
47.5°	12409.8	12458.6	12630.5	12834.9	13085.7	13315.6	13473.6	13557.2	13538.6	13441.1	13108.9
50°	12851.1	12897.6	13083.4	13334.2	13626.9	13912.6	14182.0	14381.7	14451.4	14407.3	14103.0
52.5°	12902.2	12978.9	13197.2	13534.0	13914.9	14305.1	14688.3	15027.4	15257.4	15292.2	15066.9
55°	12189.2	12265.8	12567.8	13067.1	13633.8	14270.2	14883.4	15454.8	15907.7	16140.0	16021.5
57.5°	10507.6	10644.6	10962.8	11548.1	12381.9	13334.2	14312.1	15327.0	16249.1	16864.6	16983.1
60°	8052.6	8215.1	8535.7	9158.1	10087.2	11223.0	12528.3	14028.7	15656.9	17041.1	17868.0
62.5°	5165.5	5318.8	5655.6	6196.8	6954.0	8185.0	9585.5	11367.0	13554.9	15740.5	17710.1
65°	2654.8	2738.4	2914.9	3242.4	3832.3	4752.1	6008.6	7785.5	10286.9	12983.5	15831.1
67.5°	1681.6	1697.8	1737.3	1783.8	1934.8	2253.0	2838.3	3946.1	6004.0	8816.7	12149.7
70°	1454.0	1454.0	1435.4	1428.4	1447.0	1491.1	1581.7	1839.5	2534.0	4185.4	7007.4
72.5°	1330.9	1316.9	1284.4	1258.9	1254.2	1254.2	1272.8	1312.3	1423.8	1704.8	2743.0
75°	1226.3	1186.9	1142.7	1112.5	1100.9	1089.3	1087.0	1094.0	1117.2	1161.3	1310.0
77.5°	1098.6	1047.5	996.4	966.2	952.3	936.0	922.1	905.8	894.2	908.1	973.2
80°	945.3	887.2	847.8	829.2	815.2	792.0	761.8	734.0	708.4	703.8	743.2
82.5°	761.8	694.5	696.8	703.8	678.2	645.7	613.2	583.0	538.9	515.6	538.9
85°	615.5	580.7	564.4	608.5	571.4	522.6	471.5	418.1	348.4	292.7	318.2
87.5°	239.2	239.2	357.7	550.5	494.7	404.1	346.1	295.0	183.5	141.7	144.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2	5451.2
2.5°	5460.5	5465.2	5462.8	5460.5	5460.5	5458.2	5460.5	5460.5
5°	5502.3	5513.9	5513.9	5518.6	5518.6	5520.9	5523.2	5520.9
7.5°	5565.0	5585.9	5599.9	5616.1	5618.4	5620.8	5625.4	5620.8
10°	5627.7	5669.5	5699.7	5729.9	5743.9	5748.5	5753.2	5753.2
12.5°	5706.7	5764.8	5818.2	5871.6	5897.2	5911.1	5911.1	5920.4
15°	5836.8	5894.8	5957.5	6029.5	6073.7	6096.9	6103.9	6103.9
17.5°	6020.3	6071.4	6124.8	6194.5	6250.2	6280.4	6287.4	6285.0
20°	6233.9	6282.7	6312.9	6357.0	6405.8	6440.7	6449.9	6449.9
22.5°	6477.8	6505.7	6510.3	6524.3	6563.8	6610.2	6631.1	6635.8
25°	6747.2	6754.2	6735.6	6735.6	6761.2	6805.3	6826.2	6828.5
27.5°	7095.6	7060.8	7014.3	6998.1	7014.3	7065.4	7091.0	7100.3
30°	7530.0	7446.4	7339.5	7281.4	7272.2	7339.5	7386.0	7392.9
32.5°	8027.0	7906.2	7764.6	7646.1	7615.9	7657.7	7713.5	7711.1
35°	8617.0	8473.0	8301.1	8150.1	8080.4	8122.2	8201.2	8210.5
37.5°	9297.5	9109.4	8911.9	8721.5	8612.3	8623.9	8707.5	8735.4
40°	10057.0	9813.1	9564.6	9309.1	9153.5	9123.3	9225.5	9241.7
42.5°	10869.9	10556.4	10242.8	9926.9	9727.2	9680.7	9799.2	9792.2
45°	11736.3	11336.8	10969.8	10621.4	10384.5	10314.8	10412.4	10412.4
47.5°	12667.6	12175.2	11738.6	11343.7	11085.9	10986.0	11078.9	11085.9
50°	13654.7	13132.2	12618.9	12179.9	11871.0	11743.2	11864.0	11882.6
52.5°	14637.2	14128.6	13610.6	13108.9	12735.0	12579.4	12718.7	12779.1
55°	15633.6	15134.3	14639.5	14149.5	13705.8	13522.4	13671.0	13747.7
57.5°	16685.8	16223.6	15752.1	15257.4	14830.0	14544.3	14702.3	14804.4
60°	17919.1	17524.3	17034.2	16488.4	16056.3	15766.0	15856.6	15947.2
62.5°	18894.6	19047.9	18632.1	18000.4	17445.3	17073.7	17161.9	17257.1
65°	18423.1	19995.5	20364.8	19726.1	18957.3	18379.0	18341.8	18390.6
67.5°	15399.0	18453.3	20680.7	21289.2	20645.9	19842.2	19693.6	19765.6
70°	10300.9	14105.3	18035.2	20961.7	21739.8	21428.6	21282.3	21326.4
72.5°	4947.2	8215.1	12235.6	16126.0	18495.1	19582.1	19930.5	20100.0
75°	1809.3	3261.0	5897.2	8886.4	10728.2	12419.1	13522.4	13972.9
77.5°	1091.6	1316.9	1883.7	2835.9	3212.2	3595.4	3446.8	3521.1
80°	808.3	912.8	1033.6	1161.3	1203.1	1203.1	1156.7	1119.5
82.5°	566.7	634.1	692.1	761.8	780.4	745.6	613.2	487.8
85°	364.7	394.8	420.4	464.5	452.9	432.0	290.3	257.8
87.5°	167.2	190.5	199.7	220.6	211.4	202.1	144.0	120.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)