

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: P191808

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191808  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48658 lumens  
Efficiency: N/A  
Efficacy: 116.1 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): 419  
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

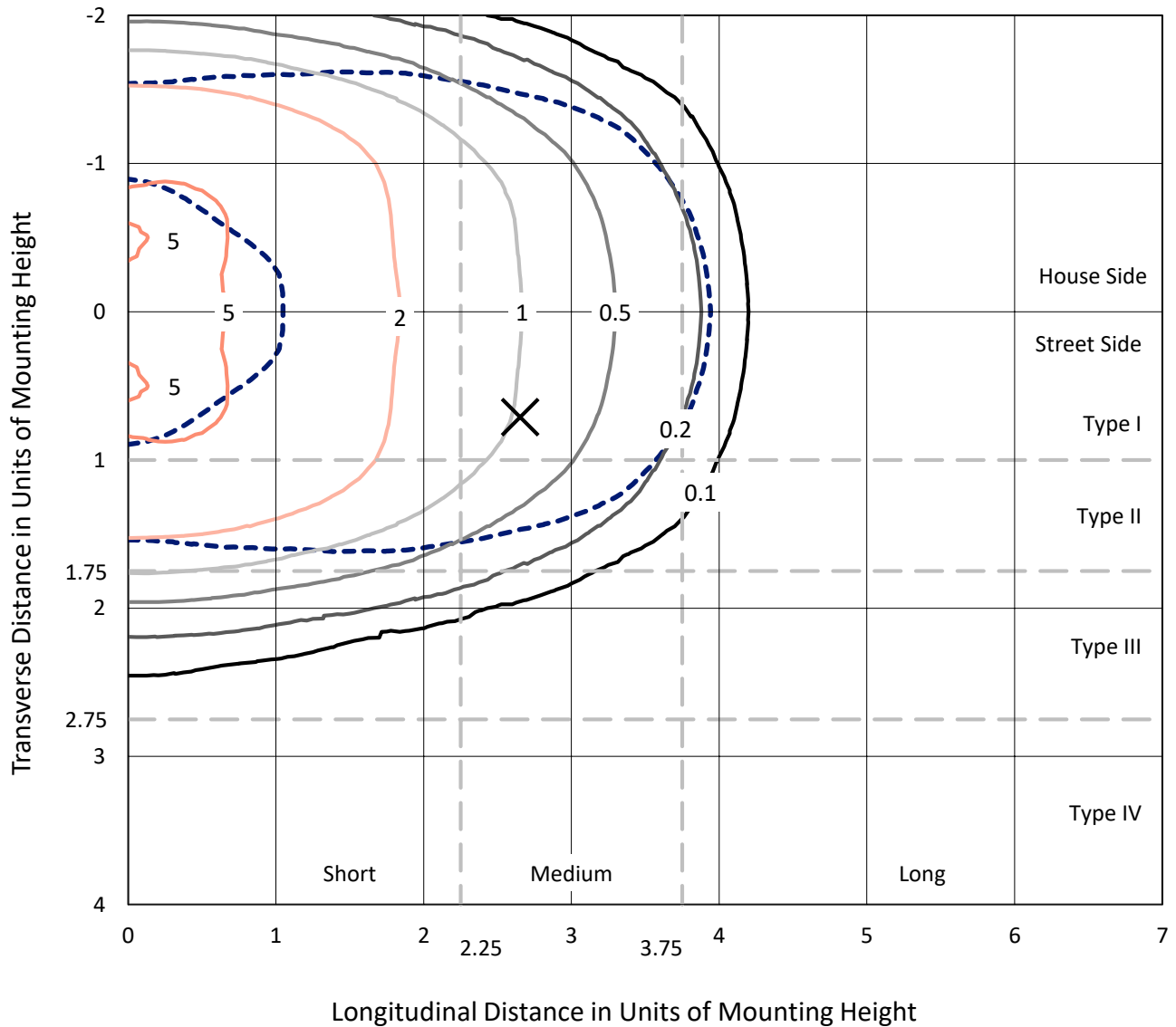


REPORT NUMBER: P191808

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

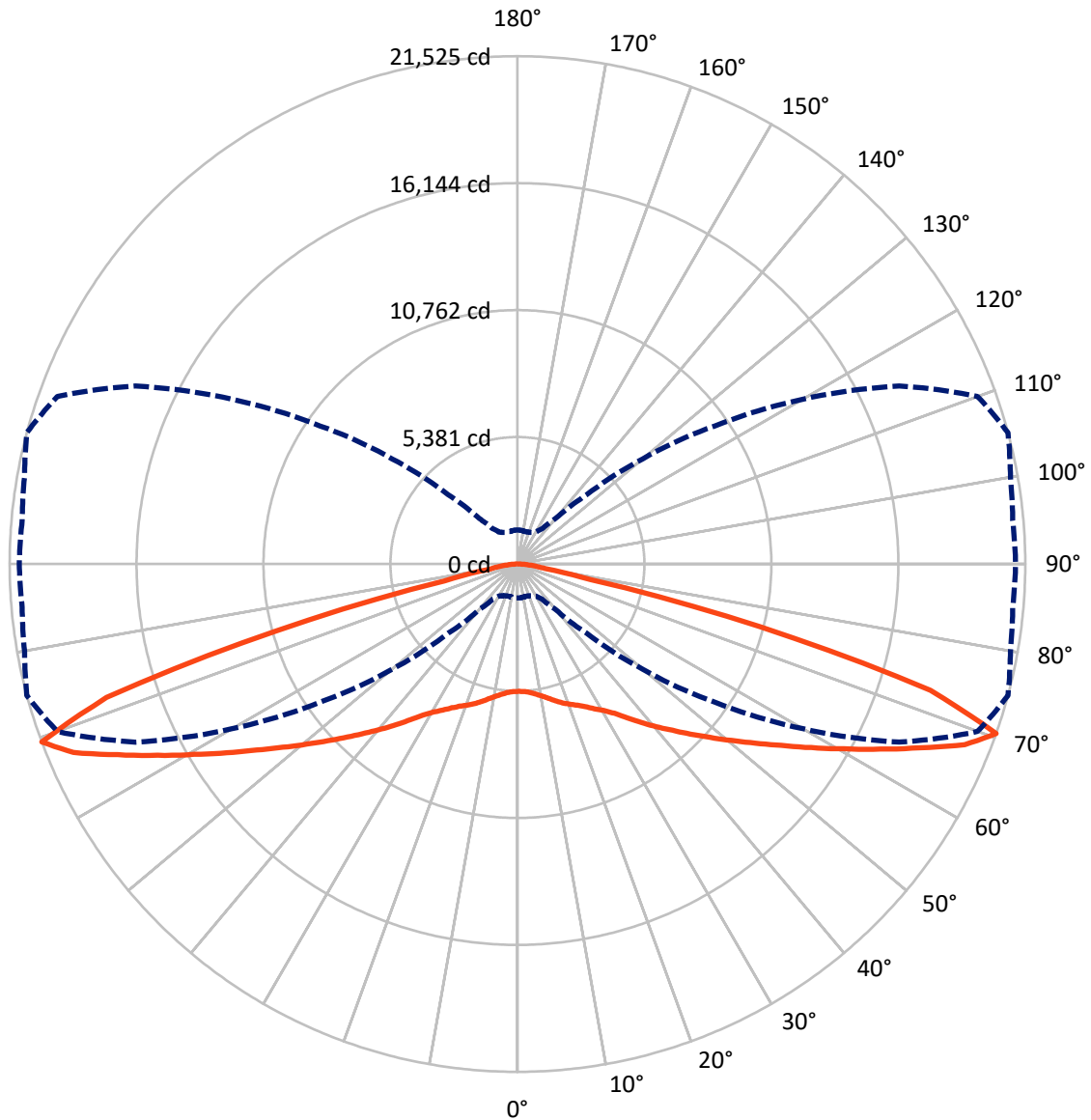


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191808

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191808

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24329.0	0.0	24329.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24329.0	0.0	24329.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48658.0	0.0	48658.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.6	1.1
10°-20°	1608.4	3.3
20°-30°	3027.3	6.2
30°-40°	5360.7	11.0
40°-50°	8964.8	18.4
50°-60°	12492.4	25.7
60°-70°	11584.7	23.8
70°-80°	4616.8	9.5
80°-90°	485.3	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°	48658.0	100.0
0°-180°	48658.0	100.0



REPORT NUMBER: P191808

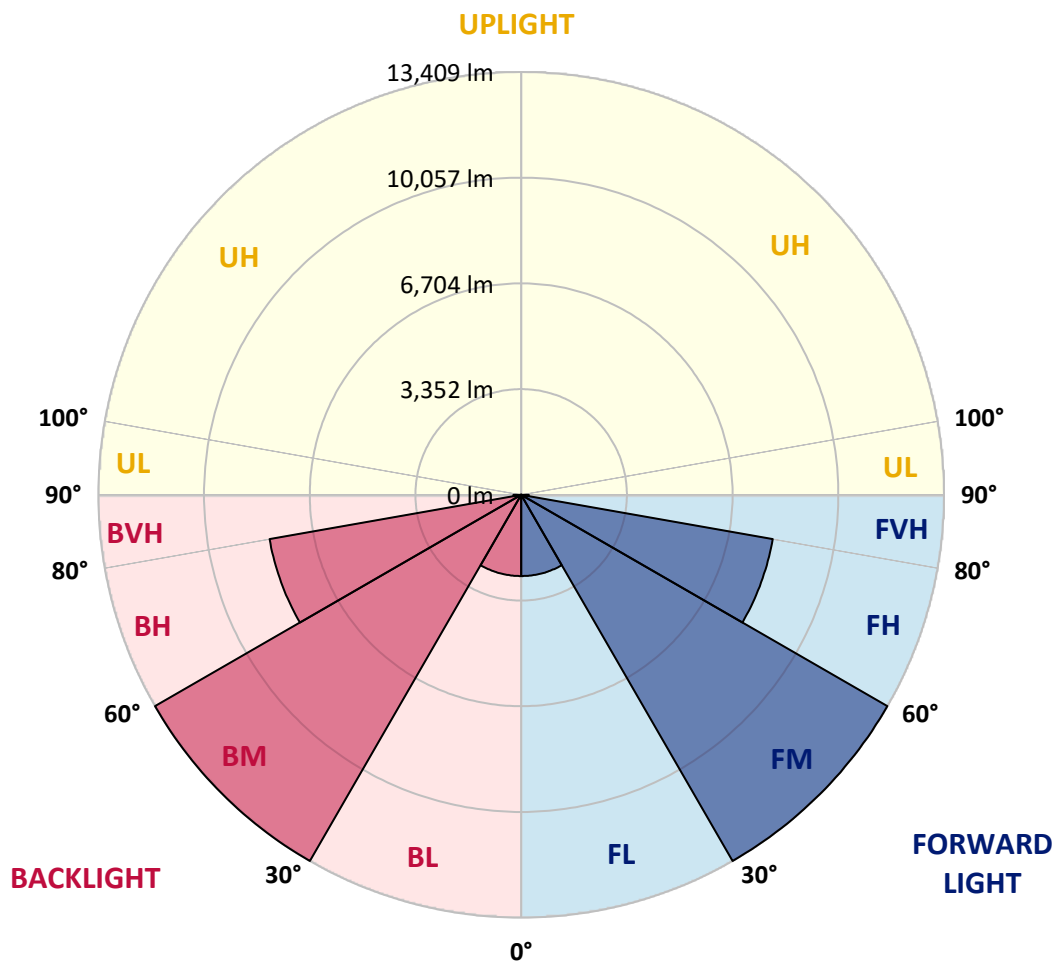
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2576.6	5.3			
FM	(30°-60°)	13408.9	27.6			
FH	(60°-80°)	8100.8	16.6			G4/12000
FVH	(80°-90°)	242.6	0.5			G3/500
BL	(0°-30°)	2576.6	5.3	B4/5000		
BM	(30°-60°)	13408.9	27.6	B5		
BH	(60°-80°)	8100.8	16.6	B5		G5
BVH	(80°-90°)	242.6	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





REPORT NUMBER: P191808

CATALOG NUMBER: GLEON-AF-10-LED-E1-RW-7050-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3
2.5°	5388.1	5383.5	5388.1	5385.8	5390.4	5390.4	5395.0	5404.2	5404.2	5411.1	5408.8
5°	5335.2	5332.9	5339.8	5346.7	5353.6	5367.4	5381.2	5401.9	5418.0	5429.5	5441.0
7.5°	5231.7	5231.7	5240.9	5257.0	5273.1	5303.0	5335.2	5376.6	5418.0	5452.5	5482.4
10°	5146.6	5151.2	5162.7	5190.3	5217.9	5263.9	5307.6	5367.4	5424.9	5482.4	5528.4
12.5°	5096.1	5102.9	5123.6	5165.0	5211.0	5273.1	5339.8	5415.7	5480.1	5549.1	5595.1
15°	5112.1	5116.7	5146.6	5197.2	5257.0	5335.2	5424.9	5514.6	5590.5	5664.1	5726.2
17.5°	5201.8	5208.7	5243.2	5300.7	5362.8	5454.8	5551.4	5652.6	5746.9	5829.6	5905.5
20°	5362.8	5369.7	5413.4	5475.5	5549.1	5643.4	5740.0	5845.7	5951.5	6038.9	6124.0
22.5°	5590.5	5602.0	5643.4	5705.5	5788.2	5889.4	6004.4	6117.1	6218.3	6298.8	6374.7
25°	5889.4	5914.7	5953.8	6022.8	6110.2	6202.2	6326.4	6441.4	6537.9	6613.8	6669.0
27.5°	6312.6	6347.1	6377.0	6443.7	6528.7	6616.1	6740.3	6841.5	6933.5	7007.1	7048.5
30°	6873.7	6908.2	6938.1	7002.5	7080.7	7163.4	7280.7	7370.4	7427.9	7485.4	7483.1
32.5°	7554.4	7591.2	7602.7	7671.7	7752.2	7841.8	7947.6	7998.2	8044.2	8051.1	8009.7
35°	8315.6	8334.0	8380.0	8472.0	8563.9	8637.5	8738.7	8764.0	8764.0	8729.5	8637.5
37.5°	9150.4	9161.9	9226.2	9329.7	9424.0	9499.9	9568.9	9619.5	9594.2	9520.6	9366.5
40°	10065.6	10086.3	10178.3	10270.3	10376.1	10447.4	10521.0	10530.2	10504.9	10396.8	10187.5
42.5°	10939.5	10957.9	11049.9	11194.8	11332.7	11431.6	11500.6	11514.4	11433.9	11335.0	11075.2
45°	11691.5	11739.8	11859.4	12029.5	12229.6	12369.9	12464.2	12503.3	12432.0	12303.2	12001.9
47.5°	12287.1	12335.4	12505.6	12707.9	12956.3	13184.0	13340.3	13423.1	13404.7	13308.1	12979.3
50°	12724.0	12770.0	12954.0	13202.4	13492.1	13775.0	14041.7	14239.5	14308.5	14264.8	13963.5
52.5°	12774.6	12850.5	13066.7	13400.1	13777.3	14163.6	14543.1	14878.8	15106.5	15141.0	14917.9
55°	12068.6	12144.5	12443.5	12937.9	13499.0	14129.1	14736.2	15301.9	15750.4	15980.3	15863.1
57.5°	10403.7	10539.3	10854.4	11433.9	12259.5	13202.4	14170.5	15175.5	16088.4	16697.8	16815.1
60°	7972.9	8133.9	8451.3	9067.6	9987.4	11112.0	12404.4	13890.0	15502.0	16872.6	17691.3
62.5°	5114.4	5266.2	5599.7	6135.5	6885.2	8104.0	9490.7	11254.5	13420.8	15584.8	17534.9
65°	2628.5	2711.3	2886.1	3210.3	3794.4	4705.1	5949.2	7708.5	10185.2	12855.1	15674.5
67.5°	1665.0	1681.1	1720.1	1766.1	1915.6	2230.7	2810.2	3907.1	5944.6	8729.5	12029.5
70°	1439.6	1439.6	1421.2	1414.3	1432.7	1476.4	1566.1	1821.3	2508.9	4144.0	6938.1
72.5°	1317.7	1303.9	1271.7	1246.4	1241.8	1241.8	1260.2	1299.3	1409.7	1688.0	2715.9
75°	1214.2	1175.1	1131.4	1101.5	1090.0	1078.5	1076.2	1083.1	1106.1	1149.8	1297.0
77.5°	1087.7	1037.1	986.6	956.7	942.9	926.8	913.0	896.9	885.4	899.2	963.6
80°	936.0	878.5	839.4	821.0	807.2	784.2	754.3	726.7	701.4	696.8	735.9
82.5°	754.3	687.6	689.9	696.8	671.5	639.3	607.1	577.2	533.5	510.5	533.5
85°	609.4	574.9	558.8	602.5	565.7	517.4	466.8	413.9	344.9	289.8	315.1
87.5°	236.9	236.9	354.1	545.0	489.8	400.1	342.6	292.1	181.7	140.3	142.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191808

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3	5397.3
2.5°	5406.5	5411.1	5408.8	5406.5	5406.5	5404.2	5406.5	5406.5
5°	5447.9	5459.4	5459.4	5464.0	5464.0	5466.3	5468.6	5466.3
7.5°	5510.0	5530.7	5544.5	5560.6	5562.9	5565.2	5569.8	5565.2
10°	5572.1	5613.5	5643.4	5673.3	5687.1	5691.7	5696.3	5696.3
12.5°	5650.3	5707.8	5760.7	5813.5	5838.8	5852.6	5852.6	5861.8
15°	5779.0	5836.5	5898.6	5969.9	6013.6	6036.6	6043.5	6043.5
17.5°	5960.7	6011.3	6064.2	6133.2	6188.4	6218.3	6225.2	6222.9
20°	6172.3	6220.6	6250.5	6294.2	6342.5	6377.0	6386.2	6386.2
22.5°	6413.8	6441.4	6446.0	6459.7	6498.8	6544.8	6565.5	6570.1
25°	6680.5	6687.4	6669.0	6669.0	6694.3	6738.0	6758.7	6761.0
27.5°	7025.5	6991.0	6945.0	6928.9	6945.0	6995.6	7020.9	7030.1
30°	7455.5	7372.7	7266.9	7209.4	7200.2	7266.9	7312.9	7319.8
32.5°	7947.6	7828.0	7687.8	7570.5	7540.6	7582.0	7637.2	7634.9
35°	8531.7	8389.2	8219.0	8069.5	8000.5	8041.9	8120.1	8129.3
37.5°	9205.5	9019.3	8823.8	8635.2	8527.1	8538.6	8621.4	8649.0
40°	9957.5	9716.1	9470.0	9217.0	9063.0	9033.1	9134.3	9150.4
42.5°	10762.4	10452.0	10141.5	9828.8	9631.0	9585.0	9702.3	9695.4
45°	11620.2	11224.6	10861.3	10516.4	10281.8	10212.8	10309.4	10309.4
47.5°	12542.4	12054.8	11622.5	11231.5	10976.3	10877.4	10969.4	10976.3
50°	13519.7	13002.3	12494.1	12059.4	11753.6	11627.1	11746.7	11765.1
52.5°	14492.5	13988.8	13476.0	12979.3	12609.0	12455.0	12592.9	12652.7
55°	15479.0	14984.6	14494.8	14009.5	13570.3	13388.6	13535.8	13611.7
57.5°	16520.8	16063.1	15596.3	15106.5	14683.3	14400.5	14556.9	14658.0
60°	17741.9	17350.9	16865.7	16325.3	15897.6	15610.1	15699.8	15789.5
62.5°	18707.7	18859.5	18447.9	17822.4	17272.8	16904.8	16992.2	17086.5
65°	18240.9	19797.8	20163.4	19531.0	18769.8	18197.2	18160.4	18208.7
67.5°	15246.8	18270.8	20476.2	21078.7	20441.7	19646.0	19498.8	19570.1
70°	10199.0	13965.8	17856.9	20754.4	21524.8	21216.7	21071.8	21115.5
72.5°	4898.3	8133.9	12114.6	15966.6	18312.2	19388.4	19733.4	19901.3
75°	1791.4	3228.7	5838.8	8798.5	10622.1	12296.3	13388.6	13834.8
77.5°	1080.8	1303.9	1865.0	2807.9	3180.4	3559.9	3412.7	3486.3
80°	800.3	903.8	1023.3	1149.8	1191.2	1191.2	1145.2	1108.4
82.5°	561.1	627.8	685.3	754.3	772.7	738.2	607.1	482.9
85°	361.0	390.9	416.2	459.9	448.4	427.7	287.5	255.3
87.5°	165.6	188.6	197.8	218.5	209.3	200.1	142.6	119.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)