

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: P193557

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193557
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-09-LED-E1-RW-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 44387 lumens
Efficiency: N/A
Efficacy: 88.6 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

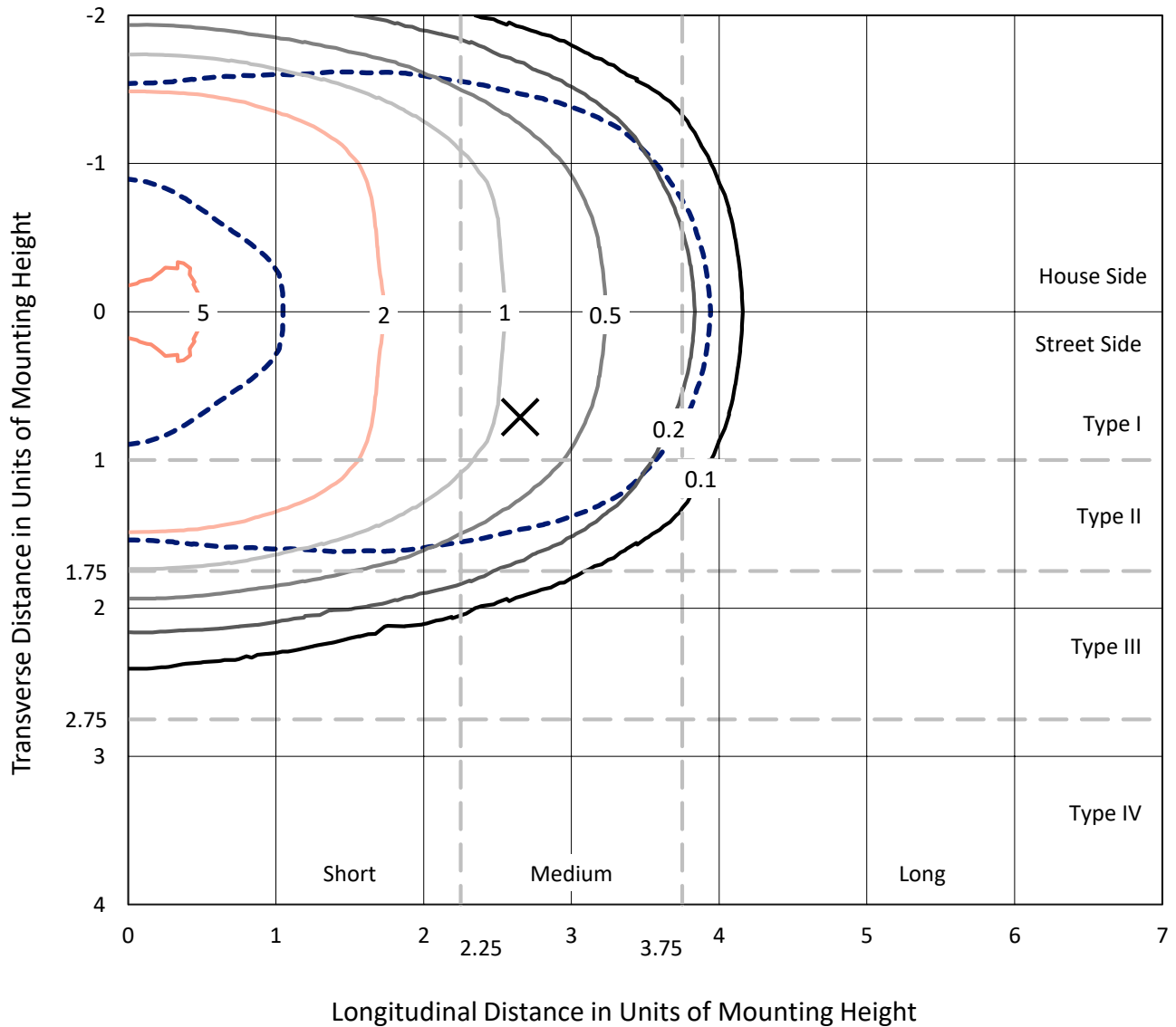
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

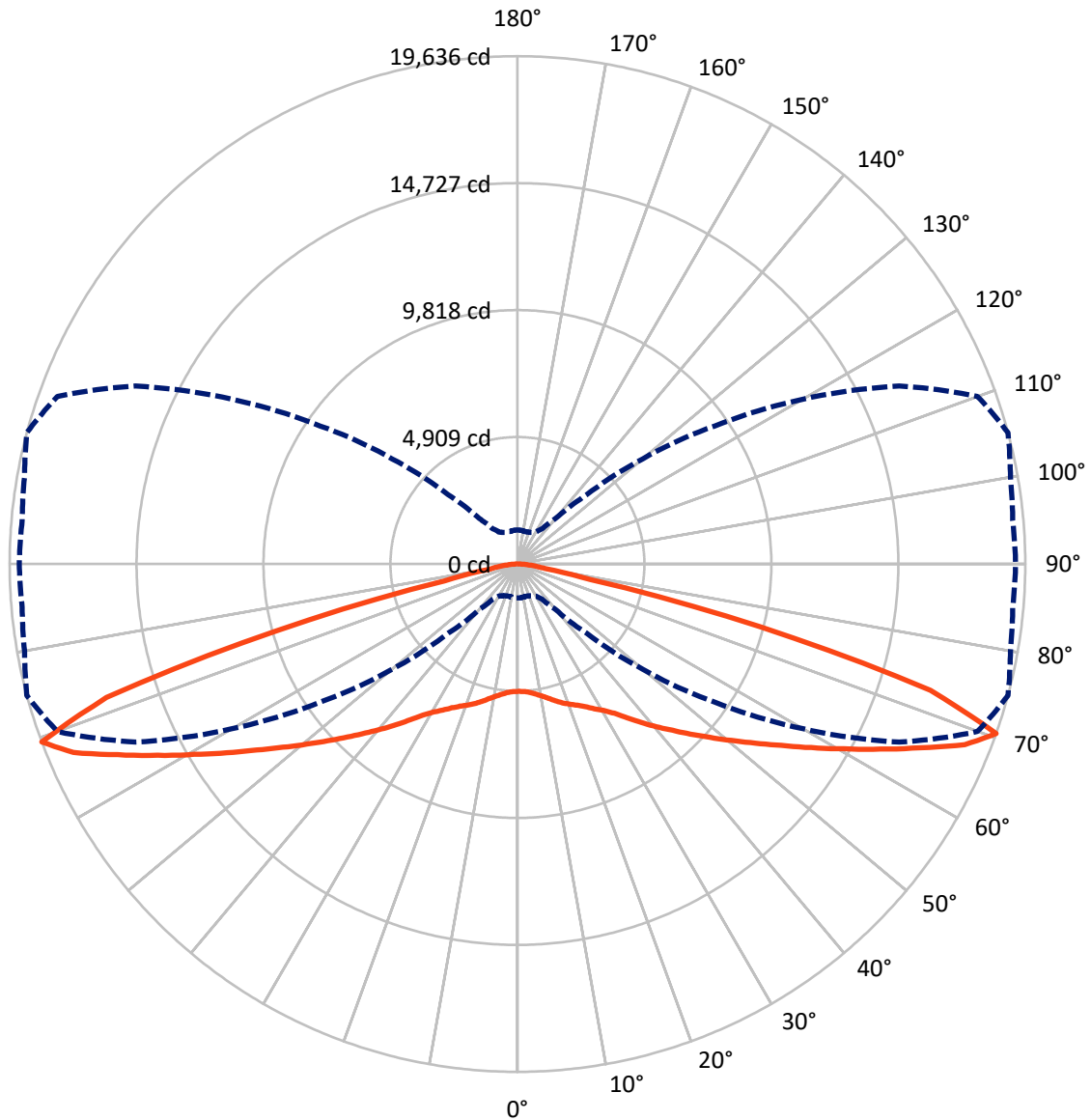
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	22193.5	0.0	22193.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22193.5	0.0	22193.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44387.0	0.0	44387.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.1
10°-20°	1467.2	3.3
20°-30°	2761.5	6.2
30°-40°	4890.1	11.0
40°-50°	8177.9	18.4
50°-60°	11395.9	25.7
60°-70°	10567.8	23.8
70°-80°	4211.6	9.5
80°-90°	442.7	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°	44387.0	100.0
0°-180°	44387.0	100.0



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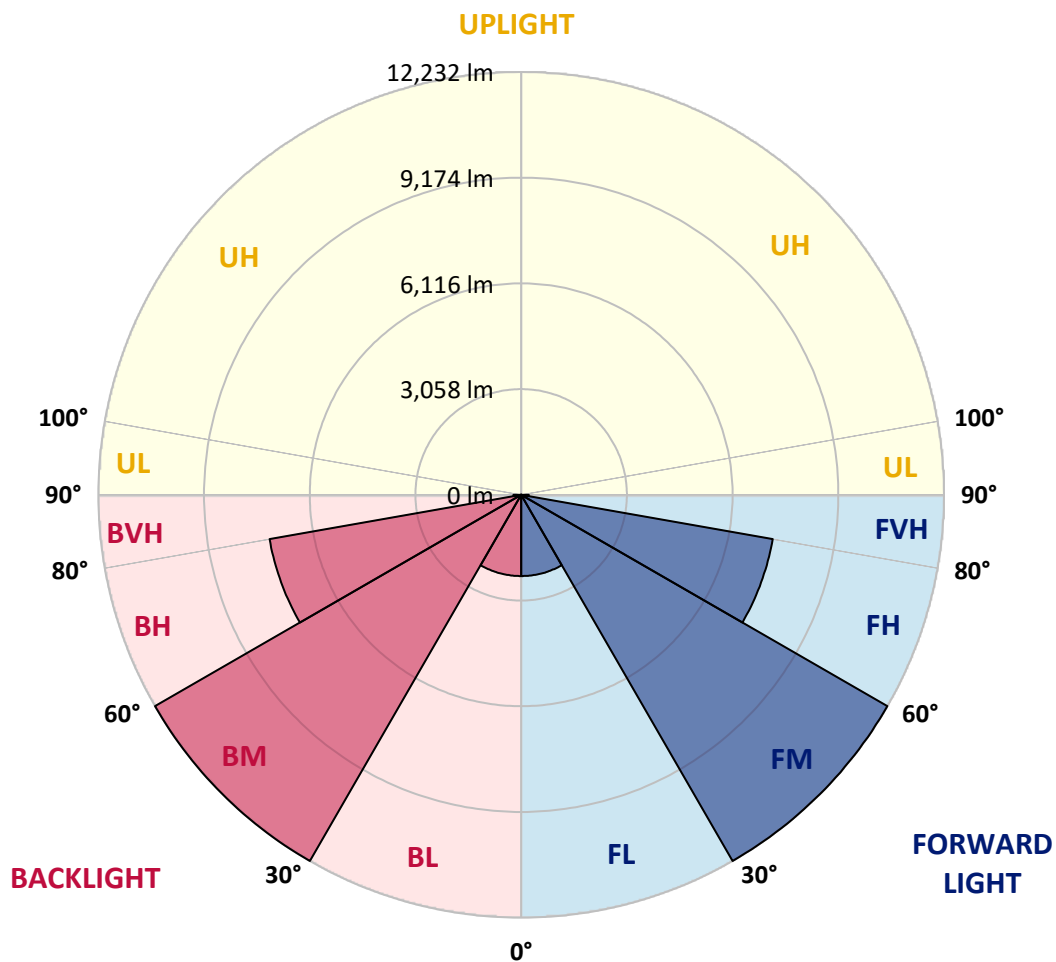
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2350.5	5.3			
FM	(30°-60°)	12231.9	27.6			
FH	(60°-80°)	7389.7	16.6			G3/7500
FVH	(80°-90°)	221.4	0.5			G2/225
BL	(0°-30°)	2350.5	5.3	B3/2500		
BM	(30°-60°)	12231.9	27.6	B5		
BH	(60°-80°)	7389.7	16.6	B5		G5
BVH	(80°-90°)	221.4	0.5			G2/225
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°	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6
2.5°	4915.2	4911.0	4915.2	4913.1	4917.3	4917.3	4921.5	4929.8	4929.8	4936.1	4934.0
5°	4866.9	4864.8	4871.1	4877.4	4883.7	4896.3	4908.9	4927.7	4942.4	4952.9	4963.4
7.5°	4772.5	4772.5	4780.9	4795.6	4810.3	4837.5	4866.9	4904.7	4942.4	4973.9	5001.2
10°	4694.9	4699.1	4709.6	4734.8	4759.9	4801.9	4841.7	4896.3	4948.7	5001.2	5043.1
12.5°	4648.7	4655.0	4673.9	4711.7	4753.6	4810.3	4871.1	4940.3	4999.1	5062.0	5104.0
15°	4663.4	4667.6	4694.9	4741.0	4795.6	4866.9	4948.7	5030.5	5099.8	5166.9	5223.5
17.5°	4745.2	4751.5	4783.0	4835.4	4892.1	4976.0	5064.1	5156.4	5242.4	5317.9	5387.2
20°	4892.1	4898.4	4938.2	4994.9	5062.0	5148.0	5236.1	5332.6	5429.1	5508.8	5586.5
22.5°	5099.8	5110.3	5148.0	5204.7	5280.2	5372.5	5477.4	5580.2	5672.5	5745.9	5815.1
25°	5372.5	5395.6	5431.2	5494.2	5573.9	5657.8	5771.1	5876.0	5964.1	6033.3	6083.6
27.5°	5758.5	5789.9	5817.2	5878.1	5955.7	6035.4	6148.7	6241.0	6324.9	6392.0	6429.8
30°	6270.3	6301.8	6329.1	6387.8	6459.1	6534.7	6641.7	6723.5	6775.9	6828.4	6826.3
32.5°	6891.3	6924.9	6935.3	6998.3	7071.7	7153.5	7250.0	7296.2	7338.1	7344.4	7306.7
35°	7585.7	7602.5	7644.4	7728.3	7812.2	7879.4	7971.7	7994.7	7994.7	7963.3	7879.4
37.5°	8347.2	8357.7	8416.4	8510.8	8596.8	8666.0	8729.0	8775.1	8752.1	8684.9	8544.4
40°	9182.1	9201.0	9284.9	9368.8	9465.3	9530.3	9597.5	9605.9	9582.8	9484.2	9293.3
42.5°	9979.3	9996.0	10080.0	10212.1	10338.0	10428.2	10491.1	10503.7	10430.3	10340.1	10103.0
45°	10665.2	10709.3	10818.4	10973.6	11156.1	11284.1	11370.1	11405.8	11340.7	11223.3	10948.5
47.5°	11208.6	11252.6	11407.9	11592.5	11819.0	12026.7	12169.4	12244.9	12228.1	12140.0	11840.0
50°	11607.2	11649.1	11816.9	12043.5	12307.8	12565.9	12809.2	12989.6	13052.6	13012.7	12737.9
52.5°	11653.3	11722.5	11919.7	12223.9	12568.0	12920.4	13266.5	13572.8	13780.5	13812.0	13608.5
55°	11009.3	11078.5	11351.2	11802.3	12314.1	12888.9	13442.7	13958.8	14367.9	14577.7	14470.7
57.5°	9490.5	9614.2	9901.6	10430.3	11183.4	12043.5	12926.7	13843.4	14676.3	15232.2	15339.2
60°	7273.1	7419.9	7709.4	8271.7	9110.8	10136.6	11315.6	12670.8	14141.3	15391.6	16138.4
62.5°	4665.5	4804.0	5108.2	5596.9	6280.8	7392.7	8657.6	10266.7	12242.8	14216.8	15995.8
65°	2397.8	2473.3	2632.7	2928.5	3461.4	4292.1	5427.0	7031.8	9291.2	11726.7	14298.7
67.5°	1518.8	1533.5	1569.2	1611.1	1747.5	2034.9	2563.5	3564.2	5422.8	7963.3	10973.6
70°	1313.2	1313.2	1296.4	1290.2	1306.9	1346.8	1428.6	1661.5	2288.7	3780.2	6329.1
72.5°	1202.0	1189.5	1160.1	1137.0	1132.8	1132.8	1149.6	1185.3	1286.0	1539.8	2477.5
75°	1107.6	1072.0	1032.1	1004.8	994.4	983.9	981.8	988.1	1009.0	1048.9	1183.2
77.5°	992.3	946.1	900.0	872.7	860.1	845.4	832.8	818.1	807.7	820.2	879.0
80°	853.8	801.4	765.7	748.9	736.3	715.4	688.1	662.9	639.8	635.6	671.3
82.5°	688.1	627.2	629.3	635.6	612.6	583.2	553.8	526.5	486.7	465.7	486.7
85°	555.9	524.5	509.8	549.6	516.1	472.0	425.9	377.6	314.7	264.3	287.4
87.5°	216.1	216.1	323.1	497.2	446.8	365.0	312.6	266.4	165.7	128.0	130.1
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°	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6	4923.6
2.5°	4931.9	4936.1	4934.0	4931.9	4931.9	4929.8	4931.9	4931.9
5°	4969.7	4980.2	4980.2	4984.4	4984.4	4986.5	4988.6	4986.5
7.5°	5026.3	5045.2	5057.8	5072.5	5074.6	5076.7	5080.9	5076.7
10°	5083.0	5120.7	5148.0	5175.3	5187.9	5192.1	5196.3	5196.3
12.5°	5154.3	5206.8	5255.0	5303.3	5326.3	5338.9	5338.9	5347.3
15°	5271.8	5324.2	5380.9	5445.9	5485.8	5506.7	5513.0	5513.0
17.5°	5437.5	5483.7	5531.9	5594.9	5645.2	5672.5	5678.8	5676.7
20°	5630.5	5674.6	5701.8	5741.7	5785.8	5817.2	5825.6	5825.6
22.5°	5850.8	5876.0	5880.2	5892.7	5928.4	5970.4	5989.2	5993.4
25°	6094.1	6100.4	6083.6	6083.6	6106.7	6146.6	6165.5	6167.6
27.5°	6408.8	6377.3	6335.4	6320.7	6335.4	6381.5	6404.6	6413.0
30°	6801.1	6725.6	6629.1	6576.6	6568.2	6629.1	6671.0	6677.3
32.5°	7250.0	7140.9	7013.0	6906.0	6878.7	6916.5	6966.8	6964.7
35°	7782.9	7652.8	7497.6	7361.2	7298.3	7336.0	7407.4	7415.7
37.5°	8397.5	8227.6	8049.3	7877.3	7778.7	7789.2	7864.7	7889.9
40°	9083.5	8863.2	8638.8	8408.0	8267.5	8240.2	8332.5	8347.2
42.5°	9817.7	9534.5	9251.3	8966.0	8785.6	8743.7	8850.6	8844.4
45°	10600.2	10239.4	9907.9	9593.3	9379.3	9316.4	9404.5	9404.5
47.5°	11441.4	10996.7	10602.3	10245.7	10012.8	9922.6	10006.5	10012.8
50°	12333.0	11861.0	11397.4	11000.9	10721.9	10606.5	10715.6	10732.4
52.5°	13220.4	12761.0	12293.1	11840.0	11502.3	11361.7	11487.6	11542.1
55°	14120.3	13669.3	13222.5	12779.8	12379.2	12213.4	12347.7	12416.9
57.5°	15070.6	14653.2	14227.3	13780.5	13394.5	13136.5	13279.1	13371.4
60°	16184.6	15828.0	15385.3	14892.3	14502.1	14239.9	14321.7	14403.5
62.5°	17065.7	17204.1	16828.6	16258.0	15756.6	15421.0	15500.7	15586.7
65°	16639.8	18060.0	18393.6	17816.7	17122.3	16599.9	16566.4	16610.4
67.5°	13908.5	16667.1	18678.9	19228.5	18647.4	17921.6	17787.3	17852.3
70°	9303.8	12740.0	16289.5	18932.7	19635.5	19354.4	19222.2	19262.1
72.5°	4468.3	7419.9	11051.2	14565.1	16704.8	17686.6	18001.3	18154.4
75°	1634.2	2945.3	5326.3	8026.2	9689.8	11217.0	12213.4	12620.4
77.5°	986.0	1189.5	1701.3	2561.4	2901.3	3247.4	3113.1	3180.3
80°	730.0	824.4	933.5	1048.9	1086.7	1086.7	1044.7	1011.1
82.5°	511.9	572.7	625.1	688.1	704.9	673.4	553.8	440.5
85°	329.4	356.6	379.7	419.6	409.1	390.2	262.2	232.9
87.5°	151.0	172.0	180.4	199.3	190.9	182.5	130.1	109.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)