

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: P191015

Luminaire Tested: **GLEON-AF-07-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191015
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-07-LED-E1-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44024.7 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 391
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

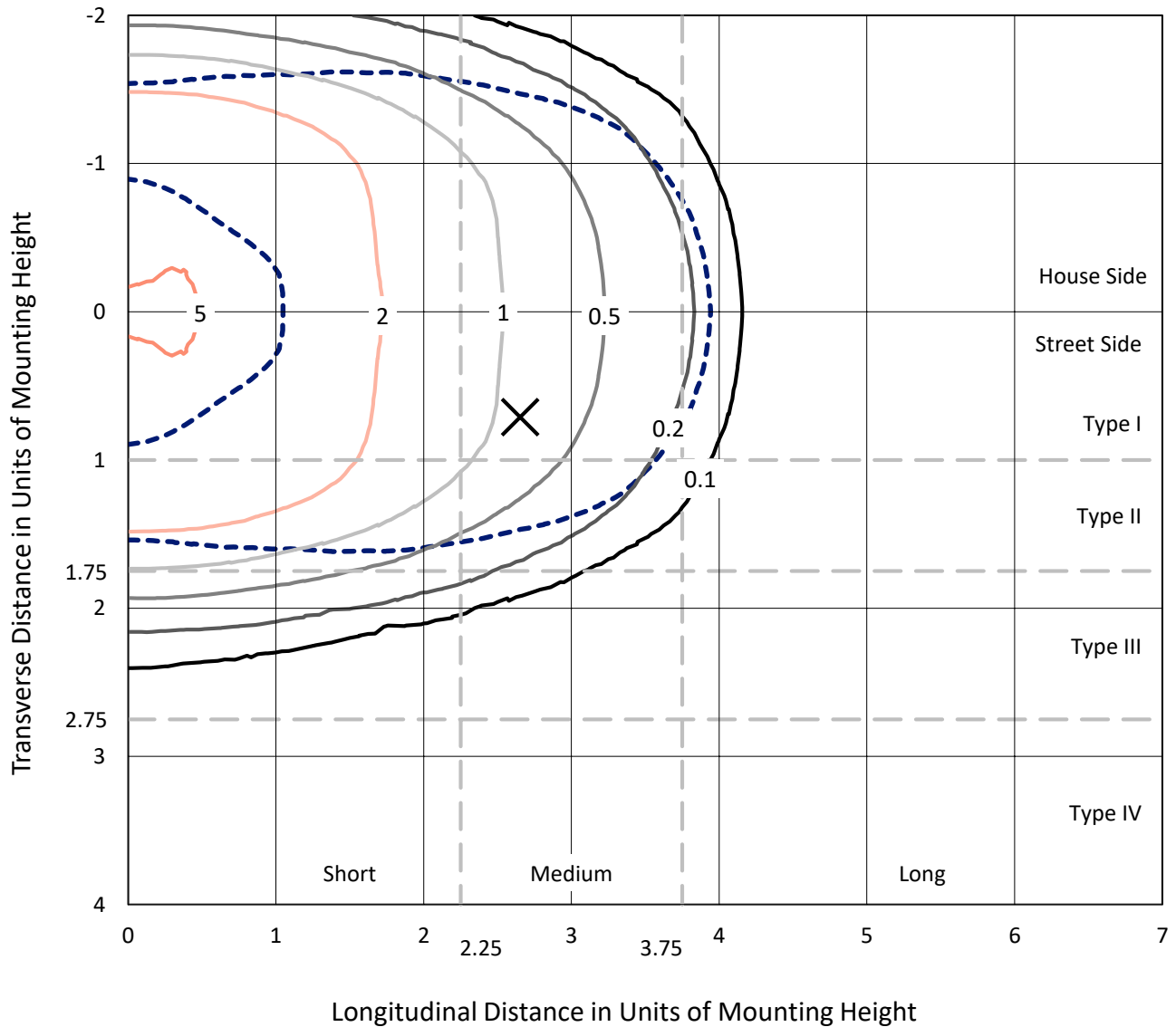


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

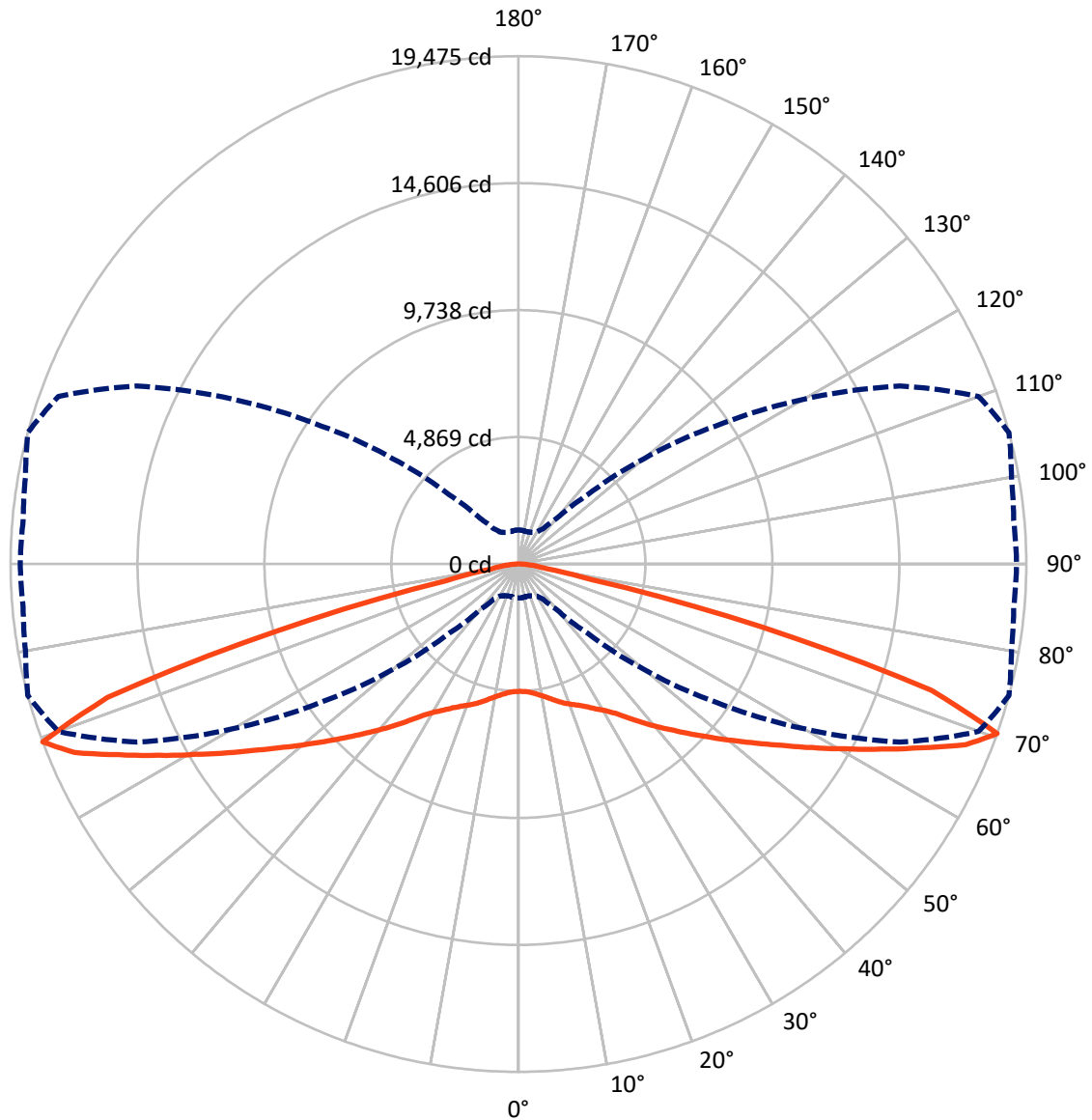


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - Full Cutoff

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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	22012.4	0.0	22012.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22012.4	0.0	22012.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	44024.7	0.0	44024.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.1
10°-20°	1455.2	3.3
20°-30°	2739.0	6.2
30°-40°	4850.2	11.0
40°-50°	8111.1	18.4
50°-60°	11302.9	25.7
60°-70°	10481.6	23.8
70°-80°	4177.2	9.5
80°-90°	439.1	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°	44024.7	100.0
0°-180°	44024.7	100.0



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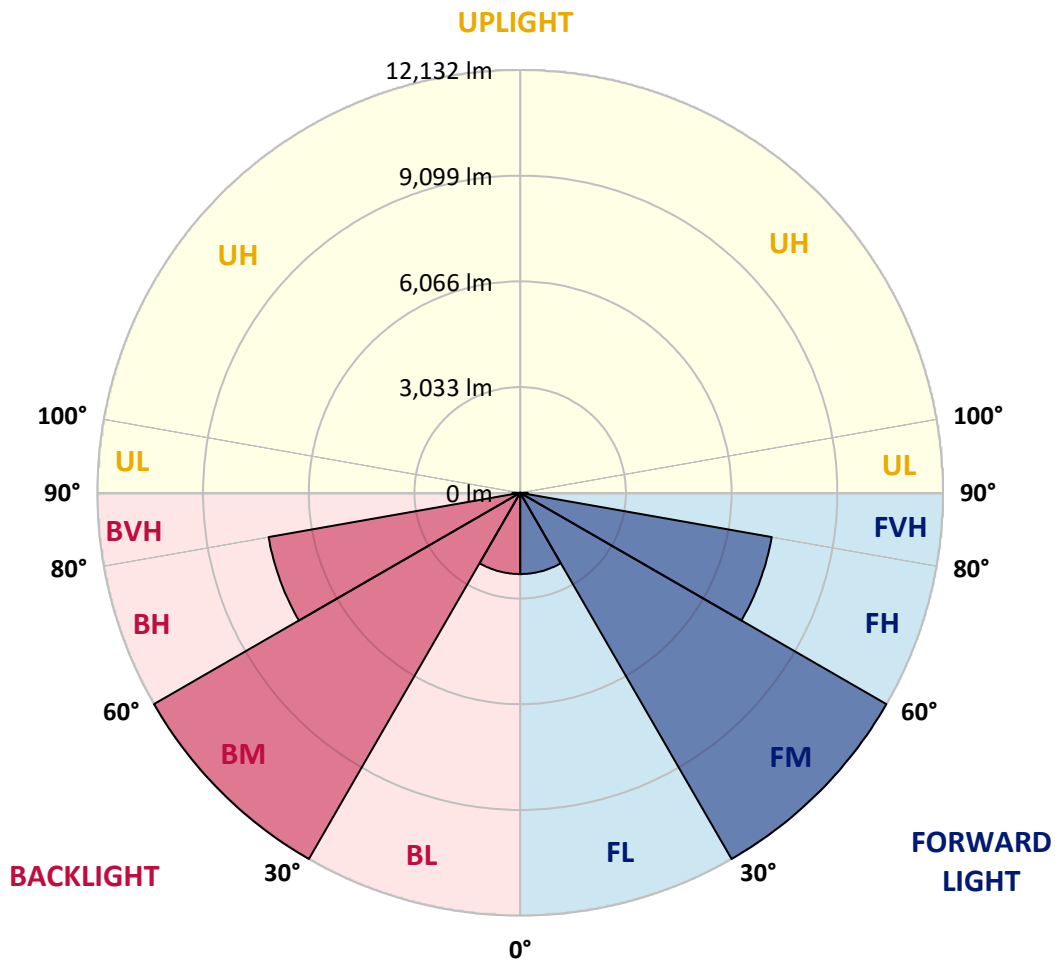
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.3	5.3			
FM	(30°-60°)	12132.1	27.6			
FH	(60°-80°)	7329.4	16.6			G3/7500
FVH	(80°-90°)	219.5	0.5			G2/225
BL	(0°-30°)	2331.3	5.3	B3/2500		
BM	(30°-60°)	12132.1	27.6	B5		
BH	(60°-80°)	7329.4	16.6	B5		G5
BVH	(80°-90°)	219.5	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°	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4
2.5°	4875.1	4870.9	4875.1	4872.9	4877.1	4877.1	4881.3	4889.6	4889.6	4895.8	4893.8
5°	4827.2	4825.2	4831.4	4837.6	4843.9	4856.4	4868.8	4887.6	4902.1	4912.5	4923.0
7.5°	4733.6	4733.6	4741.9	4756.4	4771.0	4798.0	4827.2	4864.6	4902.1	4933.3	4960.4
10°	4656.6	4660.8	4671.1	4696.1	4721.1	4762.7	4802.2	4856.4	4908.3	4960.4	5001.9
12.5°	4610.8	4617.1	4635.8	4673.2	4714.9	4771.0	4831.4	4900.0	4958.2	5020.7	5062.3
15°	4625.4	4629.6	4656.6	4702.3	4756.4	4827.2	4908.3	4989.4	5058.2	5124.8	5180.9
17.5°	4706.5	4712.7	4743.9	4796.0	4852.2	4935.4	5022.8	5114.3	5199.7	5274.5	5343.2
20°	4852.2	4858.4	4897.9	4954.2	5020.7	5106.0	5193.4	5289.1	5384.8	5463.9	5540.9
22.5°	5058.2	5068.5	5106.0	5162.2	5237.1	5328.7	5432.7	5534.6	5626.1	5699.0	5767.7
25°	5328.7	5351.6	5386.9	5449.4	5528.3	5611.6	5723.9	5828.0	5915.4	5984.1	6034.0
27.5°	5711.4	5742.6	5769.7	5830.1	5907.0	5986.1	6098.5	6190.1	6273.2	6339.8	6377.3
30°	6219.1	6250.3	6277.4	6335.6	6406.4	6481.3	6587.5	6668.6	6720.6	6772.7	6770.5
32.5°	6835.1	6868.3	6878.7	6941.1	7014.0	7095.2	7190.8	7236.7	7278.2	7284.4	7247.0
35°	7523.8	7540.4	7582.0	7665.3	7748.4	7815.0	7906.6	7929.5	7929.5	7898.3	7815.0
37.5°	8279.0	8289.5	8347.7	8441.4	8526.6	8595.3	8657.7	8703.5	8680.7	8614.1	8474.6
40°	9107.1	9125.8	9209.1	9292.4	9388.0	9452.6	9519.2	9527.5	9504.5	9406.7	9217.4
42.5°	9897.9	9914.4	9997.7	10128.7	10253.6	10343.1	10405.6	10418.0	10345.2	10255.7	10020.6
45°	10578.2	10621.9	10730.1	10884.1	11065.1	11192.0	11277.3	11312.7	11248.2	11131.6	10859.1
47.5°	11117.1	11160.8	11314.8	11497.9	11722.6	11928.5	12070.1	12145.0	12128.3	12040.9	11743.4
50°	11512.4	11554.0	11720.5	11945.2	12207.4	12463.3	12704.6	12883.6	12946.1	12906.5	12634.0
52.5°	11558.2	11626.9	11822.4	12124.1	12465.4	12814.9	13158.2	13462.0	13668.1	13699.3	13497.4
55°	10919.5	10988.1	11258.6	11705.9	12213.6	12783.7	13333.0	13844.9	14250.6	14458.7	14352.6
57.5°	9413.0	9535.7	9820.8	10345.2	11092.2	11945.2	12821.2	13730.5	14556.5	15107.9	15213.9
60°	7213.7	7359.4	7646.6	8204.2	9036.4	10053.9	11223.2	12567.4	14025.9	15266.0	16006.7
62.5°	4627.4	4764.8	5066.5	5551.2	6229.6	7332.3	8587.0	10182.9	12142.8	14100.8	15865.3
65°	2378.3	2453.1	2611.3	2904.7	3433.1	4257.1	5382.8	6974.5	9215.4	11631.1	14182.0
67.5°	1506.4	1521.0	1556.3	1598.0	1733.2	2018.3	2542.6	3535.1	5378.6	7898.3	10884.1
70°	1302.5	1302.5	1285.8	1279.6	1296.3	1335.8	1417.0	1647.9	2270.0	3749.4	6277.4
72.5°	1192.2	1179.8	1150.6	1127.7	1123.6	1123.6	1140.2	1175.6	1275.4	1527.3	2457.3
75°	1098.6	1063.3	1023.7	996.7	986.2	975.8	973.7	980.0	1000.9	1040.3	1173.5
77.5°	984.2	938.4	892.6	865.5	853.0	838.5	826.0	811.5	801.1	813.6	871.8
80°	846.8	794.8	759.4	742.8	730.3	709.5	682.5	657.5	634.6	630.4	665.8
82.5°	682.5	622.2	624.2	630.4	607.5	578.5	549.3	522.2	482.7	461.9	482.7
85°	551.4	520.2	505.6	545.1	511.9	468.2	422.4	374.5	312.1	262.2	285.1
87.5°	214.3	214.3	320.4	493.2	443.1	362.0	310.1	264.2	164.4	126.9	129.0
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°	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4	4883.4
2.5°	4891.6	4895.8	4893.8	4891.6	4891.6	4889.6	4891.6	4891.6
5°	4929.2	4939.5	4939.5	4943.7	4943.7	4945.8	4947.9	4945.8
7.5°	4985.4	5004.1	5016.6	5031.1	5033.2	5035.3	5039.5	5035.3
10°	5041.5	5079.0	5106.0	5133.1	5145.5	5149.7	5153.8	5153.8
12.5°	5112.2	5164.3	5212.1	5260.0	5282.8	5295.3	5295.3	5303.7
15°	5228.8	5280.8	5336.9	5401.5	5441.0	5461.8	5468.1	5468.1
17.5°	5393.1	5438.9	5486.8	5549.2	5599.1	5626.1	5632.4	5630.3
20°	5584.6	5628.3	5655.3	5694.9	5738.5	5769.7	5778.0	5778.0
22.5°	5803.0	5828.0	5832.1	5844.6	5880.0	5921.7	5940.4	5944.5
25°	6044.4	6050.7	6034.0	6034.0	6056.9	6096.4	6115.1	6117.2
27.5°	6356.5	6325.3	6283.7	6269.2	6283.7	6329.4	6352.3	6360.6
30°	6745.5	6670.7	6575.0	6522.9	6514.7	6575.0	6616.5	6622.8
32.5°	7190.8	7082.6	6955.8	6849.6	6822.6	6860.0	6909.9	6907.9
35°	7719.4	7590.3	7436.3	7301.1	7238.7	7276.1	7346.9	7355.2
37.5°	8329.0	8160.5	7983.6	7813.0	7715.2	7725.6	7800.5	7825.5
40°	9009.3	8790.9	8568.2	8339.4	8200.0	8173.0	8264.5	8279.0
42.5°	9737.6	9456.7	9175.9	8892.8	8713.9	8672.3	8778.5	8772.2
45°	10513.7	10155.9	9827.1	9515.0	9302.7	9240.3	9327.7	9327.7
47.5°	11348.1	10906.9	10515.8	10162.1	9931.1	9841.6	9924.9	9931.1
50°	12232.3	11764.2	11304.3	10911.1	10634.4	10519.9	10628.2	10644.8
52.5°	13112.5	12656.8	12192.9	11743.4	11408.4	11269.0	11393.8	11447.9
55°	14005.1	13557.8	13114.5	12675.5	12278.2	12113.8	12246.9	12315.6
57.5°	14947.7	14533.6	14111.2	13668.1	13285.2	13029.2	13170.7	13262.3
60°	16052.5	15698.8	15259.8	14770.8	14383.8	14123.7	14204.8	14286.0
62.5°	16926.4	17063.7	16691.3	16125.3	15628.0	15295.2	15374.2	15459.4
65°	16504.0	17912.6	18243.4	17671.3	16982.5	16464.5	16431.1	16474.8
67.5°	13794.9	16531.1	18526.5	19071.6	18495.3	17775.3	17642.1	17706.7
70°	9227.8	12636.0	16156.5	18778.2	19475.2	19196.4	19065.3	19104.8
72.5°	4431.8	7359.4	10961.0	14446.2	16568.5	17542.3	17854.4	18006.3
75°	1620.9	2921.2	5282.8	7960.7	9610.7	11125.4	12113.8	12517.4
77.5°	977.9	1179.8	1687.5	2540.5	2877.6	3220.9	3087.8	3154.3
80°	724.0	817.7	925.9	1040.3	1077.8	1077.8	1036.1	1002.9
82.5°	507.7	568.0	620.0	682.5	699.1	667.9	549.3	436.9
85°	326.6	353.7	376.7	416.1	405.7	387.0	260.1	231.0
87.5°	149.8	170.6	178.9	197.6	189.3	181.1	129.0	108.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)