

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: P269544

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269544  
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-08-LED-E1-RW-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46476.1 lumens  
Efficiency: N/A  
Efficacy: 91.0 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): 511  
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

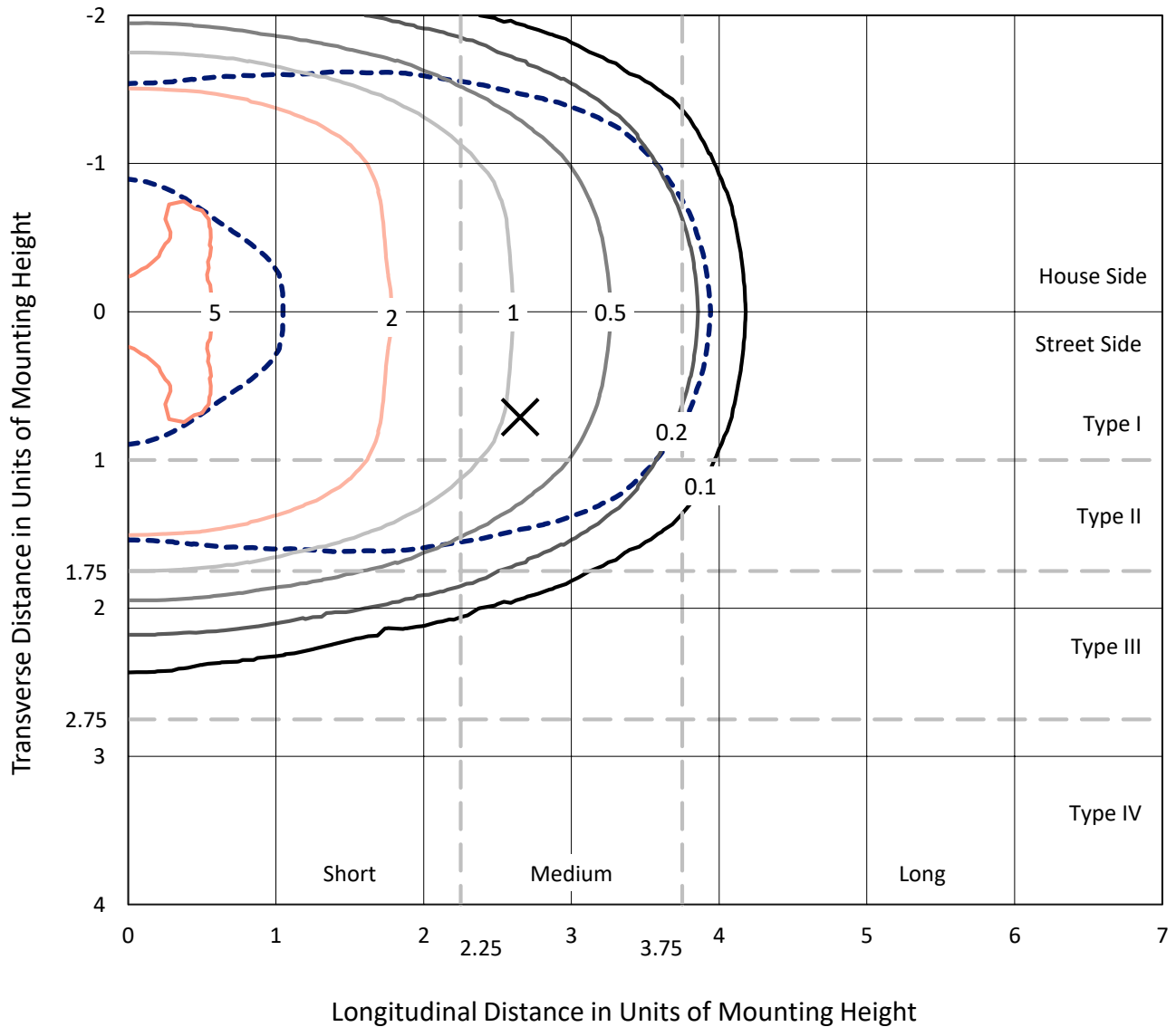


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

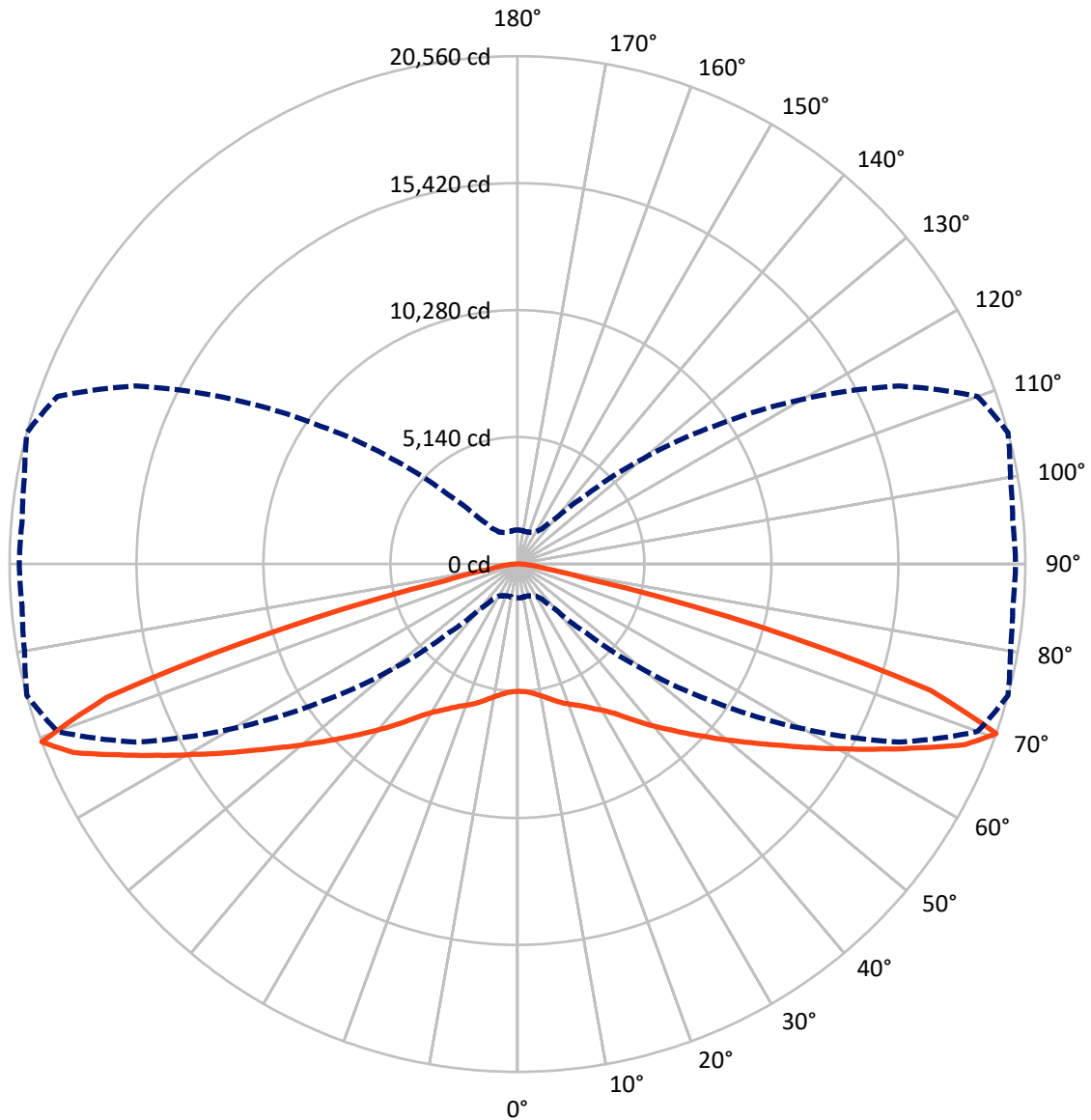


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Medium - Full Cutoff

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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	23238.1	0.0	23238.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23238.1	0.0	23238.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46476.1	0.0	46476.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.4	1.1
10°-20°	1536.3	3.3
20°-30°	2891.5	6.2
30°-40°	5120.3	11.0
40°-50°	8562.8	18.4
50°-60°	11932.2	25.7
60°-70°	11065.2	23.8
70°-80°	4409.8	9.5
80°-90°	463.5	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°	46476.1	100.0
0°-180°	46476.1	100.0



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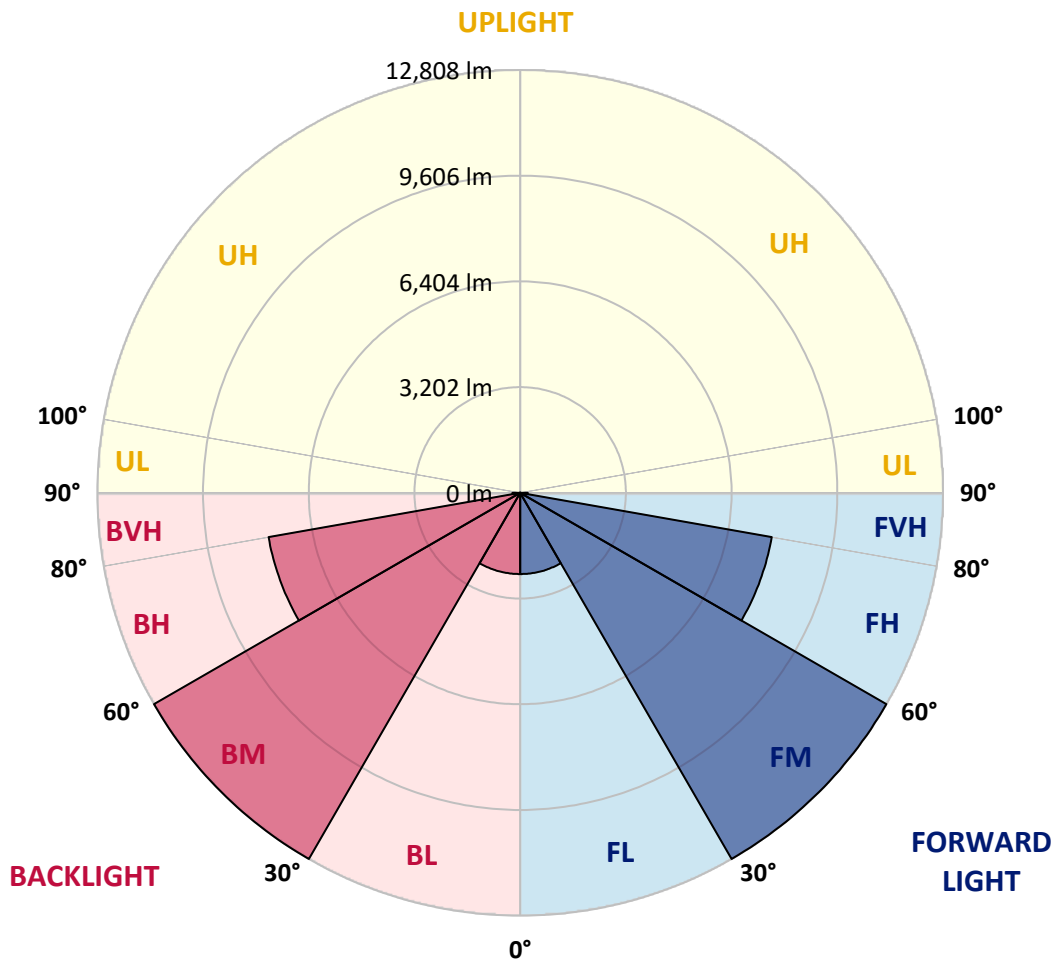
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2461.1	5.3			
FM	(30°-60°)	12807.7	27.6			
FH	(60°-80°)	7737.5	16.6			G4/12000
FVH	(80°-90°)	231.8	0.5			G3/500
BL	(0°-30°)	2461.1	5.3	B3/2500		
BM	(30°-60°)	12807.7	27.6	B5		
BH	(60°-80°)	7737.5	16.6	B5		G5
BVH	(80°-90°)	231.8	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°	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4
2.5°	5146.5	5142.1	5146.5	5144.4	5148.6	5148.6	5153.0	5161.9	5161.9	5168.5	5166.2
5°	5095.9	5093.7	5100.3	5107.0	5113.5	5126.7	5139.9	5159.7	5175.0	5186.1	5197.1
7.5°	4997.1	4997.1	5006.0	5021.3	5036.6	5065.3	5095.9	5135.5	5175.0	5208.1	5236.6
10°	4915.9	4920.2	4931.2	4957.6	4983.9	5027.9	5069.7	5126.7	5181.7	5236.6	5280.4
12.5°	4867.6	4874.2	4893.8	4933.4	4977.4	5036.6	5100.3	5172.9	5234.3	5300.3	5344.1
15°	4882.8	4887.3	4915.9	4964.2	5021.3	5095.9	5181.7	5267.3	5339.7	5410.1	5469.4
17.5°	4968.5	4975.2	5008.1	5063.0	5122.3	5210.2	5302.4	5399.2	5489.2	5568.2	5640.6
20°	5122.3	5129.0	5170.6	5229.9	5300.3	5390.3	5482.5	5583.7	5684.7	5768.0	5849.5
22.5°	5339.7	5350.8	5390.3	5449.6	5528.7	5625.4	5735.1	5842.8	5939.5	6016.3	6088.8
25°	5625.4	5649.5	5686.8	5752.7	5836.2	5924.1	6042.7	6152.5	6244.7	6317.2	6370.1
27.5°	6029.6	6062.4	6091.0	6154.6	6235.9	6319.4	6438.1	6534.7	6622.6	6692.8	6732.3
30°	6565.4	6598.4	6626.9	6688.5	6763.2	6842.2	6954.3	7039.8	7094.9	7149.7	7147.5
32.5°	7215.6	7250.8	7261.8	7327.7	7404.5	7490.2	7591.2	7639.5	7683.6	7690.1	7650.5
35°	7942.8	7960.3	8004.2	8092.0	8180.0	8250.3	8346.8	8371.0	8371.0	8338.1	8250.3
37.5°	8740.0	8751.0	8812.6	8911.4	9001.5	9073.9	9139.9	9188.1	9164.0	9093.7	8946.5
40°	9614.3	9634.1	9721.8	9809.8	9910.8	9978.9	10049.2	10058.0	10033.8	9930.6	9730.7
42.5°	10448.9	10466.5	10554.4	10692.7	10824.5	10919.0	10985.0	10998.0	10921.2	10826.7	10578.5
45°	11167.2	11213.4	11327.5	11490.1	11681.2	11815.1	11905.2	11942.5	11874.4	11751.4	11463.7
47.5°	11736.1	11782.3	11944.9	12138.1	12375.3	12592.8	12742.2	12821.1	12803.6	12711.3	12397.2
50°	12153.4	12197.4	12373.2	12610.3	12887.2	13157.2	13412.1	13601.0	13666.9	13625.1	13337.3
52.5°	12201.8	12274.4	12480.7	12799.2	13159.5	13528.6	13890.9	14211.6	14429.0	14462.1	14248.9
55°	11527.4	11600.0	11885.5	12357.8	12893.7	13495.5	14075.5	14615.9	15044.2	15263.8	15151.7
57.5°	9937.1	10066.8	10367.7	10921.2	11709.8	12610.3	13535.1	14495.1	15366.9	15949.0	16061.1
60°	7615.4	7769.3	8072.3	8661.0	9539.6	10613.7	11848.1	13267.1	14806.9	16116.0	16897.9
62.5°	4885.2	5030.1	5348.6	5860.4	6576.4	7740.6	9065.2	10749.8	12819.1	14886.0	16748.5
65°	2510.7	2589.8	2756.7	3066.4	3624.3	4494.1	5682.5	7362.8	9728.5	12278.7	14971.6
67.5°	1590.3	1605.7	1643.0	1686.9	1829.7	2130.6	2684.1	3731.9	5678.0	8338.1	11490.1
70°	1375.0	1375.0	1357.5	1351.0	1368.5	1410.2	1495.9	1739.7	2396.4	3958.1	6626.9
72.5°	1258.6	1245.4	1214.7	1190.6	1186.1	1186.1	1203.6	1241.1	1346.5	1612.3	2594.1
75°	1159.8	1122.4	1080.8	1052.2	1041.1	1030.1	1028.0	1034.6	1056.5	1098.3	1238.9
77.5°	1039.0	990.7	942.3	913.8	900.6	885.2	872.1	856.7	845.7	858.9	920.4
80°	894.1	839.0	801.7	784.2	770.9	749.0	720.5	694.1	670.0	665.6	703.0
82.5°	720.5	656.8	658.9	665.6	641.4	610.7	579.9	551.3	509.6	487.6	509.6
85°	582.1	549.1	533.8	575.5	540.3	494.2	445.9	395.3	329.5	276.8	300.9
87.5°	226.3	226.3	338.2	520.6	467.8	382.1	327.3	279.0	173.6	133.9	136.3
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°	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4	5155.4
2.5°	5164.0	5168.5	5166.2	5164.0	5164.0	5161.9	5164.0	5164.0
5°	5203.6	5214.7	5214.7	5219.1	5219.1	5221.2	5223.4	5221.2
7.5°	5262.9	5282.8	5295.9	5311.1	5313.5	5315.6	5320.0	5315.6
10°	5322.2	5361.8	5390.3	5418.8	5432.1	5436.5	5440.9	5440.9
12.5°	5396.8	5451.9	5502.4	5552.9	5576.9	5590.2	5590.2	5599.0
15°	5519.9	5574.8	5634.1	5702.3	5743.9	5766.0	5772.5	5772.5
17.5°	5693.5	5741.7	5792.4	5858.1	5910.8	5939.5	5946.1	5943.8
20°	5895.5	5941.6	5970.1	6011.9	6058.1	6091.0	6099.9	6099.9
22.5°	6126.1	6152.5	6157.0	6170.1	6207.4	6251.3	6271.1	6275.5
25°	6380.9	6387.6	6370.1	6370.1	6394.1	6435.8	6455.6	6457.8
27.5°	6710.3	6677.6	6633.5	6618.2	6633.5	6682.0	6706.0	6714.8
30°	7121.1	7042.2	6941.1	6886.1	6877.3	6941.1	6985.0	6991.6
32.5°	7591.2	7477.0	7343.0	7230.9	7202.5	7242.0	7294.6	7292.5
35°	8149.2	8013.1	7850.5	7707.6	7641.8	7681.2	7756.0	7764.8
37.5°	8792.8	8614.8	8428.1	8248.0	8144.8	8155.7	8234.9	8261.3
40°	9511.1	9280.4	9045.4	8803.7	8656.5	8628.0	8724.7	8740.0
42.5°	10279.8	9983.3	9686.8	9387.9	9199.2	9155.2	9267.3	9260.5
45°	11099.1	10721.4	10374.3	10044.8	9820.7	9754.9	9847.1	9847.1
47.5°	11979.9	11514.2	11101.3	10727.9	10484.1	10389.6	10477.6	10484.1
50°	12913.5	12419.2	11933.9	11518.6	11226.5	11105.7	11219.9	11237.4
52.5°	13842.6	13361.6	12871.8	12397.2	12043.7	11896.4	12028.2	12085.3
55°	14784.9	14312.7	13844.8	13381.3	12961.9	12788.2	12928.9	13001.3
57.5°	15779.9	15342.8	14897.0	14429.0	14024.9	13754.8	13904.1	14000.8
60°	16946.3	16572.9	16109.5	15593.3	15184.7	14910.1	14995.8	15081.5
62.5°	17868.8	18013.8	17620.7	17023.2	16498.2	16146.8	16230.2	16320.2
65°	17422.9	18910.0	19259.3	18655.2	17928.2	17381.2	17346.1	17392.3
67.5°	14563.1	17451.6	19558.0	20133.5	19525.1	18765.1	18624.5	18692.7
70°	9741.7	13339.7	17056.2	19823.7	20559.6	20265.4	20127.0	20168.7
72.5°	4678.6	7769.3	11571.3	15250.5	17491.1	18519.1	18848.5	19008.9
75°	1711.1	3083.9	5576.9	8404.0	10145.8	11744.9	12788.2	13214.3
77.5°	1032.4	1245.4	1781.3	2682.0	3037.8	3400.3	3259.7	3329.9
80°	764.4	863.2	977.4	1098.3	1137.9	1137.9	1093.9	1058.7
82.5°	536.0	599.7	654.5	720.5	738.0	705.1	579.9	461.3
85°	344.9	373.4	397.6	439.4	428.3	408.5	274.5	243.8
87.5°	158.1	180.1	189.0	208.6	200.0	191.1	136.3	114.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)