

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: P269701

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269701  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52323.7 lumens  
Efficiency: N/A  
Efficacy: 93.8 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

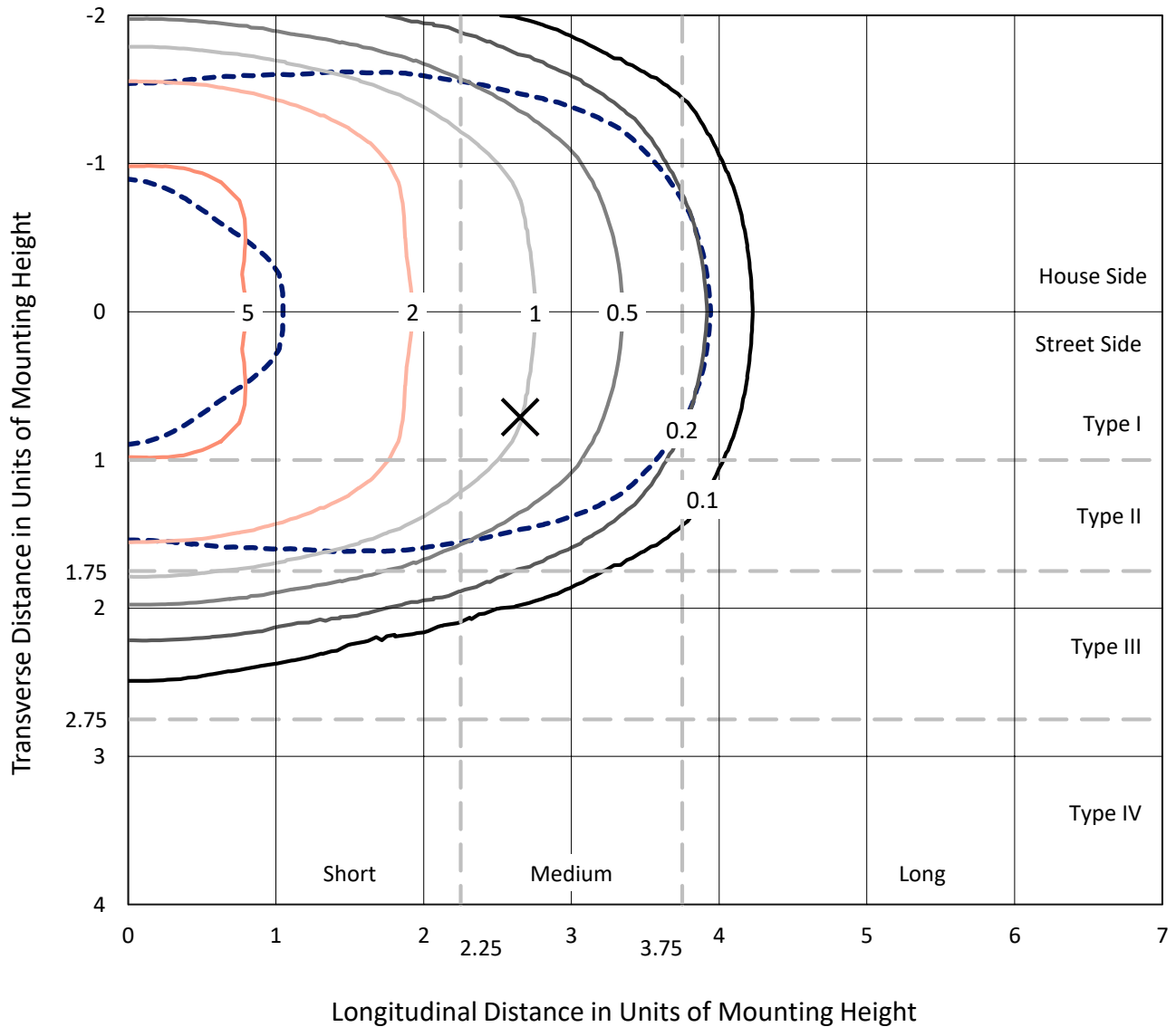
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

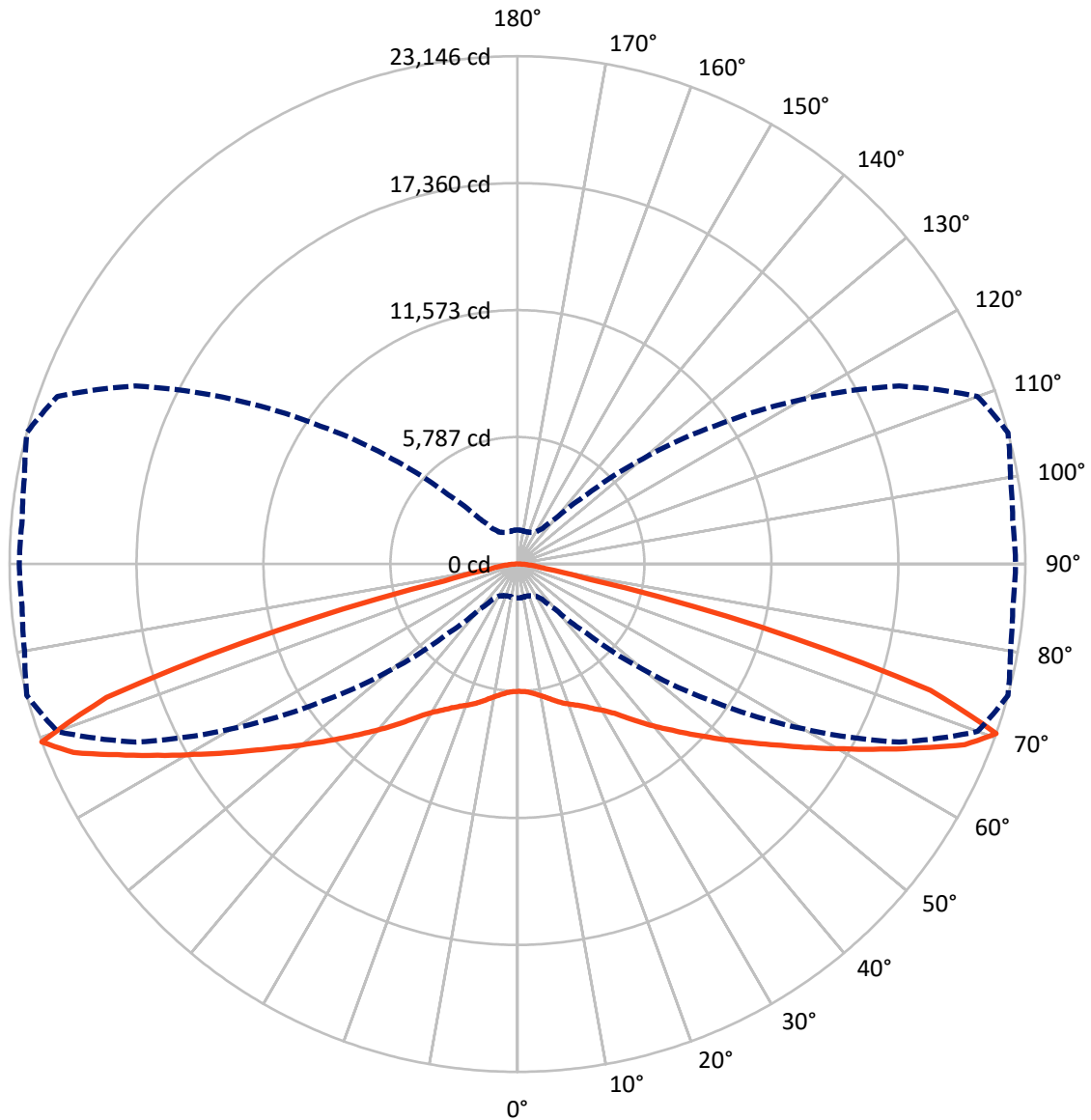
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	26161.9	0.0	26161.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26161.9	0.0	26161.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52323.7	0.0	52323.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.6	1.1
10°-20°	1729.6	3.3
20°-30°	3255.3	6.2
30°-40°	5764.5	11.0
40°-50°	9640.1	18.4
50°-60°	13433.6	25.7
60°-70°	12457.5	23.8
70°-80°	4964.7	9.5
80°-90°	521.8	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°	52323.7	100.0
0°-180°	52323.7	100.0



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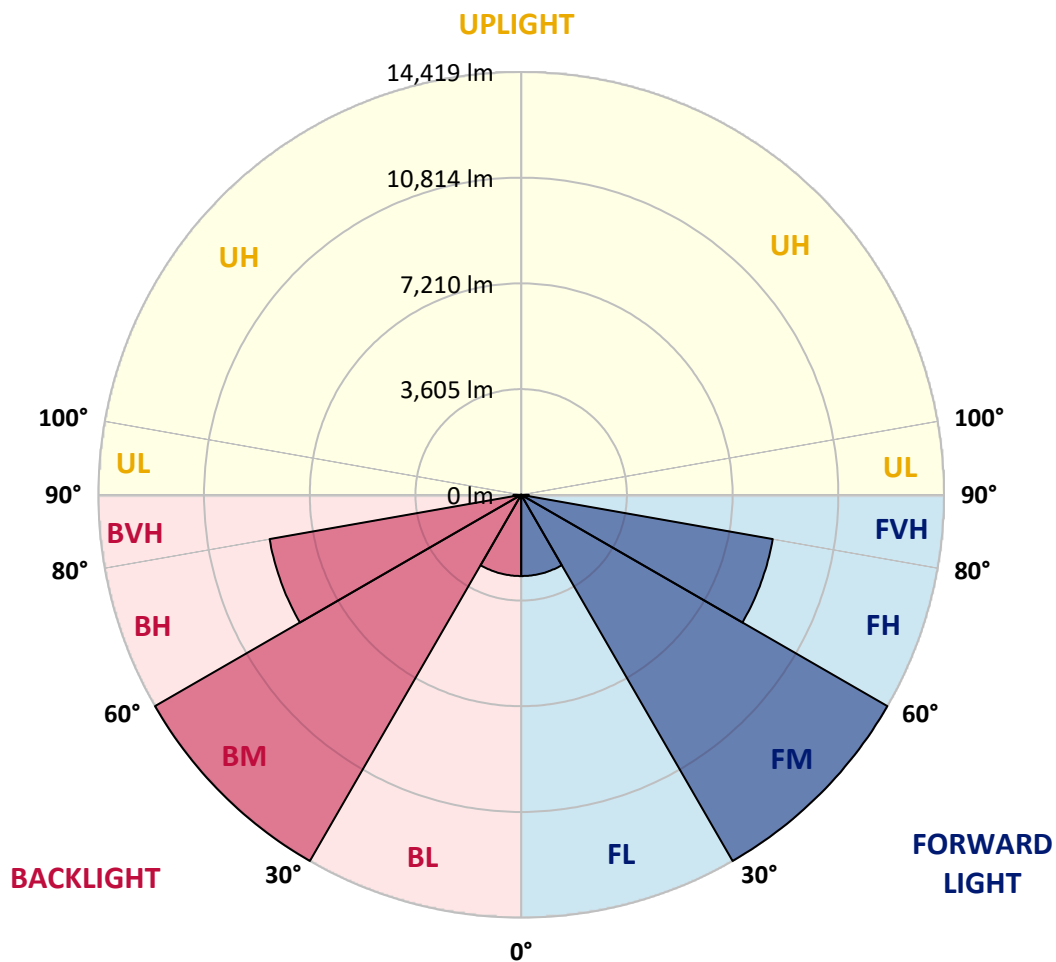
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2770.8	5.3			
FM	(30°-60°)	14419.1	27.6			
FH	(60°-80°)	8711.1	16.6			G4/12000
FVH	(80°-90°)	260.9	0.5			G3/500
BL	(0°-30°)	2770.8	5.3	B4/5000		
BM	(30°-60°)	14419.1	27.6	B5		
BH	(60°-80°)	8711.1	16.6	B5		G5
BVH	(80°-90°)	260.9	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°	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9
2.5°	5794.1	5789.0	5794.1	5791.6	5796.6	5796.6	5801.4	5811.3	5811.3	5818.7	5816.3
5°	5737.1	5734.7	5742.1	5749.5	5757.0	5771.8	5786.6	5808.9	5826.1	5838.5	5850.9
7.5°	5625.8	5625.8	5635.7	5653.0	5670.5	5702.5	5737.1	5781.8	5826.1	5863.2	5895.4
10°	5534.4	5539.3	5551.6	5581.3	5611.1	5660.5	5707.6	5771.8	5833.7	5895.4	5944.9
12.5°	5480.0	5487.3	5509.7	5554.2	5603.5	5670.5	5742.1	5823.7	5892.9	5967.1	6016.6
15°	5497.3	5502.2	5534.4	5588.7	5653.0	5737.1	5833.7	5930.0	6011.6	6090.8	6157.5
17.5°	5593.7	5601.1	5638.2	5700.0	5766.8	5865.8	5969.5	6078.4	6179.8	6268.8	6350.5
20°	5766.8	5774.2	5821.2	5888.0	5967.1	6068.5	6172.3	6286.1	6399.9	6493.8	6585.4
22.5°	6011.6	6024.0	6068.5	6135.3	6224.4	6333.1	6456.7	6578.0	6686.8	6773.3	6854.8
25°	6333.1	6360.3	6402.4	6476.6	6570.6	6669.5	6803.0	6926.7	7030.5	7112.2	7171.4
27.5°	6788.1	6825.2	6857.4	6929.0	7020.7	7114.5	7248.2	7356.8	7455.8	7535.0	7579.4
30°	7391.6	7428.7	7460.8	7530.0	7614.2	7703.1	7829.3	7925.7	7987.5	8049.4	8046.8
32.5°	8123.6	8163.1	8175.5	8249.7	8336.2	8432.6	8546.4	8600.8	8650.3	8657.7	8613.2
35°	8942.1	8961.9	9011.3	9110.3	9209.2	9288.3	9397.1	9424.3	9424.3	9387.2	9288.3
37.5°	9839.8	9852.2	9921.3	10032.6	10134.0	10215.5	10289.7	10344.3	10316.9	10237.9	10072.2
40°	10823.9	10846.1	10945.0	11044.0	11157.8	11234.5	11313.6	11323.5	11296.2	11180.0	10955.0
42.5°	11763.7	11783.4	11882.3	12038.1	12186.4	12292.9	12367.1	12381.9	12295.3	12189.0	11909.5
45°	12572.3	12624.2	12752.8	12935.9	13150.9	13301.8	13403.3	13445.2	13368.5	13230.1	12906.0
47.5°	13212.8	13264.7	13447.6	13665.2	13932.4	14177.2	14345.4	14434.3	14414.7	14310.8	13957.1
50°	13682.7	13732.1	13929.8	14197.1	14508.5	14812.7	15099.6	15312.2	15386.4	15339.5	15015.4
52.5°	13737.1	13818.6	14051.1	14409.6	14815.1	15230.7	15638.8	15999.7	16244.6	16281.7	16041.8
55°	12977.9	13059.5	13381.0	13912.6	14516.0	15193.6	15846.5	16454.8	16937.0	17184.2	17058.2
57.5°	11187.4	11333.3	11672.1	12295.3	13183.0	14197.1	15238.0	16318.7	17300.5	17955.9	18082.0
60°	8573.7	8746.6	9088.0	9750.7	10739.9	11949.2	13338.9	14936.4	16669.8	18143.7	19024.1
62.5°	5499.8	5662.9	6021.6	6597.7	7403.9	8714.5	10205.7	12102.4	14431.9	16758.9	18856.0
65°	2826.5	2915.5	3103.6	3452.1	4080.3	5059.6	6397.4	8289.2	10952.6	13823.6	16855.3
67.5°	1790.4	1807.7	1849.7	1899.1	2060.0	2398.7	3021.9	4201.6	6392.5	9387.2	12935.9
70°	1548.0	1548.0	1528.2	1520.8	1540.7	1587.7	1684.1	1958.6	2698.0	4456.2	7460.8
72.5°	1416.9	1402.2	1367.5	1340.4	1335.4	1335.4	1355.2	1397.3	1515.9	1815.1	2920.5
75°	1305.6	1263.6	1216.7	1184.5	1172.2	1159.8	1157.3	1164.7	1189.4	1236.4	1394.7
77.5°	1169.8	1115.2	1060.9	1028.6	1013.8	996.6	981.8	964.4	952.1	966.9	1036.1
80°	1006.6	944.7	902.5	882.9	868.0	843.2	811.1	781.4	754.2	749.2	791.3
82.5°	811.1	739.5	741.9	749.2	722.1	687.5	652.9	620.6	573.7	549.0	573.7
85°	655.4	618.3	601.0	647.9	608.3	556.4	502.1	445.1	370.9	311.6	338.8
87.5°	254.7	254.7	380.8	586.1	526.8	430.3	368.5	314.0	195.3	150.8	153.3
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°	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9	5803.9
2.5°	5813.8	5818.7	5816.3	5813.8	5813.8	5811.3	5813.8	5813.8
5°	5858.3	5870.8	5870.8	5875.6	5875.6	5878.1	5880.6	5878.1
7.5°	5925.1	5947.4	5962.2	5979.5	5982.0	5984.5	5989.4	5984.5
10°	5991.9	6036.4	6068.5	6100.7	6115.5	6120.4	6125.5	6125.5
12.5°	6076.0	6137.8	6194.6	6251.6	6278.8	6293.5	6293.5	6303.4
15°	6214.5	6276.3	6343.0	6419.6	6466.7	6491.4	6498.8	6498.8
17.5°	6409.8	6464.3	6521.1	6595.3	6654.6	6686.8	6694.2	6691.7
20°	6637.2	6689.1	6721.4	6768.4	6820.3	6857.4	6867.3	6867.3
22.5°	6896.9	6926.7	6931.6	6946.5	6988.5	7038.0	7060.1	7065.1
25°	7183.8	7191.2	7171.4	7171.4	7198.7	7245.5	7267.8	7270.3
27.5°	7554.7	7517.6	7468.1	7450.9	7468.1	7522.5	7549.7	7559.6
30°	8017.2	7928.1	7814.4	7752.6	7742.8	7814.4	7863.9	7871.3
32.5°	8546.4	8417.7	8266.9	8140.8	8108.7	8153.1	8212.6	8210.1
35°	9174.5	9021.1	8838.2	8677.4	8603.2	8647.8	8731.9	8741.8
37.5°	9899.1	9698.8	9488.5	9285.8	9169.5	9181.9	9271.0	9300.6
40°	10707.6	10448.0	10183.5	9911.4	9745.7	9713.6	9822.3	9839.8
42.5°	11573.3	11239.4	10905.6	10569.2	10356.6	10307.2	10433.3	10425.8
45°	12495.7	12070.3	11679.6	11308.7	11056.3	10982.1	11086.1	11086.1
47.5°	13487.2	12963.0	12498.1	12077.7	11803.2	11696.9	11795.9	11803.2
50°	14538.3	13981.8	13435.3	12967.9	12639.1	12503.0	12631.6	12651.4
52.5°	15584.2	15042.7	14491.3	13957.1	13558.9	13393.3	13541.7	13606.0
55°	16645.1	16113.4	15586.9	15064.9	14592.6	14397.2	14555.5	14637.2
57.5°	17765.4	17273.2	16771.3	16244.6	15789.6	15485.4	15653.5	15762.3
60°	19078.6	18658.2	18136.3	17555.1	17095.3	16786.1	16882.6	16979.0
62.5°	20117.2	20280.3	19837.7	19165.1	18574.1	18178.5	18272.3	18373.8
65°	19615.1	21289.3	21682.5	21002.5	20183.8	19568.1	19528.6	19580.5
67.5°	16395.4	19647.3	22018.8	22666.8	21981.7	21126.1	20967.8	21044.5
70°	10967.3	15018.0	19202.2	22318.0	23146.4	22815.2	22659.2	22706.3
72.5°	5267.3	8746.6	13027.3	17169.5	19691.7	20849.1	21220.0	21400.6
75°	1926.3	3471.9	6278.8	9461.4	11422.4	13222.6	14397.2	14877.0
77.5°	1162.2	1402.2	2005.6	3019.5	3420.0	3828.0	3669.8	3748.9
80°	860.5	971.8	1100.5	1236.4	1281.0	1281.0	1231.4	1192.0
82.5°	603.4	675.0	736.9	811.1	830.9	793.8	652.9	519.3
85°	388.2	420.3	447.5	494.5	482.2	459.9	309.0	274.5
87.5°	178.0	202.7	212.7	234.9	225.0	215.1	153.3	128.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)