

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: P193406

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
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-E1-5NQ-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44048 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

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

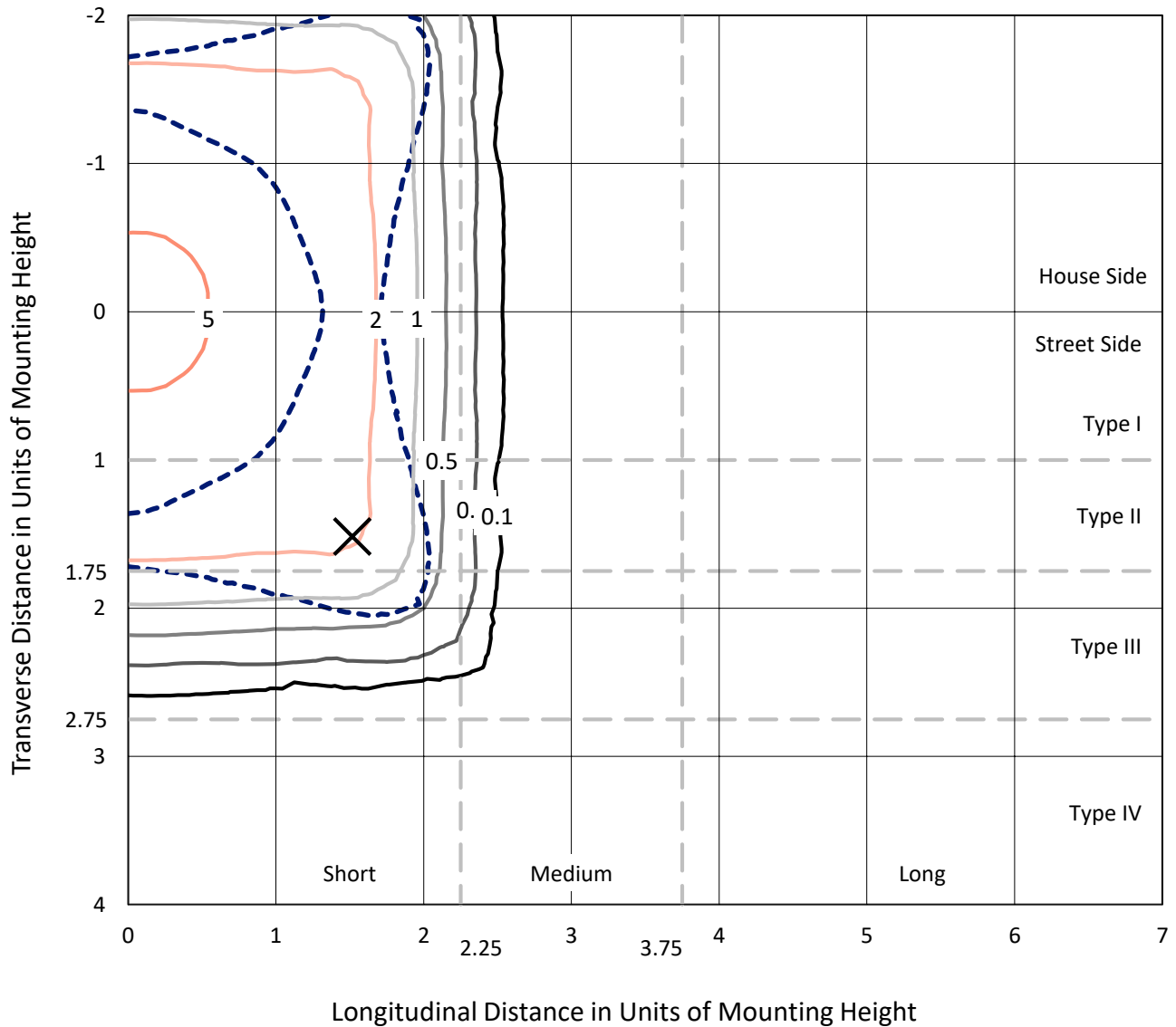


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

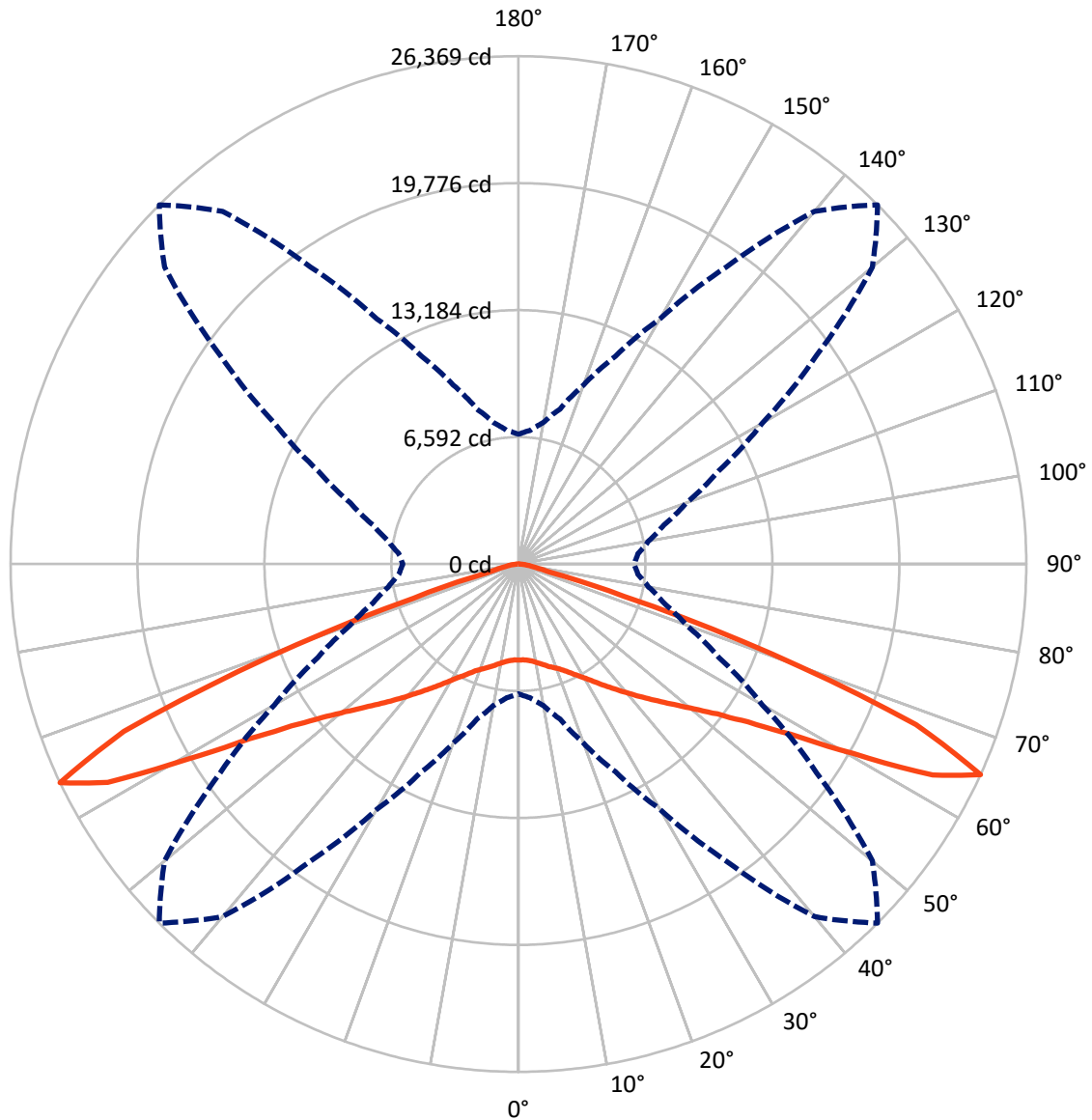


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22024.0	0.0	22024.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22024.0	0.0	22024.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44048.0	0.0	44048.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.8	1.1
10°-20°	1558.0	3.5
20°-30°	2913.2	6.6
30°-40°	4927.0	11.2
40°-50°	8056.1	18.3
50°-60°	12810.5	29.1
60°-70°	11579.9	26.3
70°-80°	1465.5	3.3
80°-90°	252.1	0.6
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°	44048.0	100.0
0°-180°	44048.0	100.0



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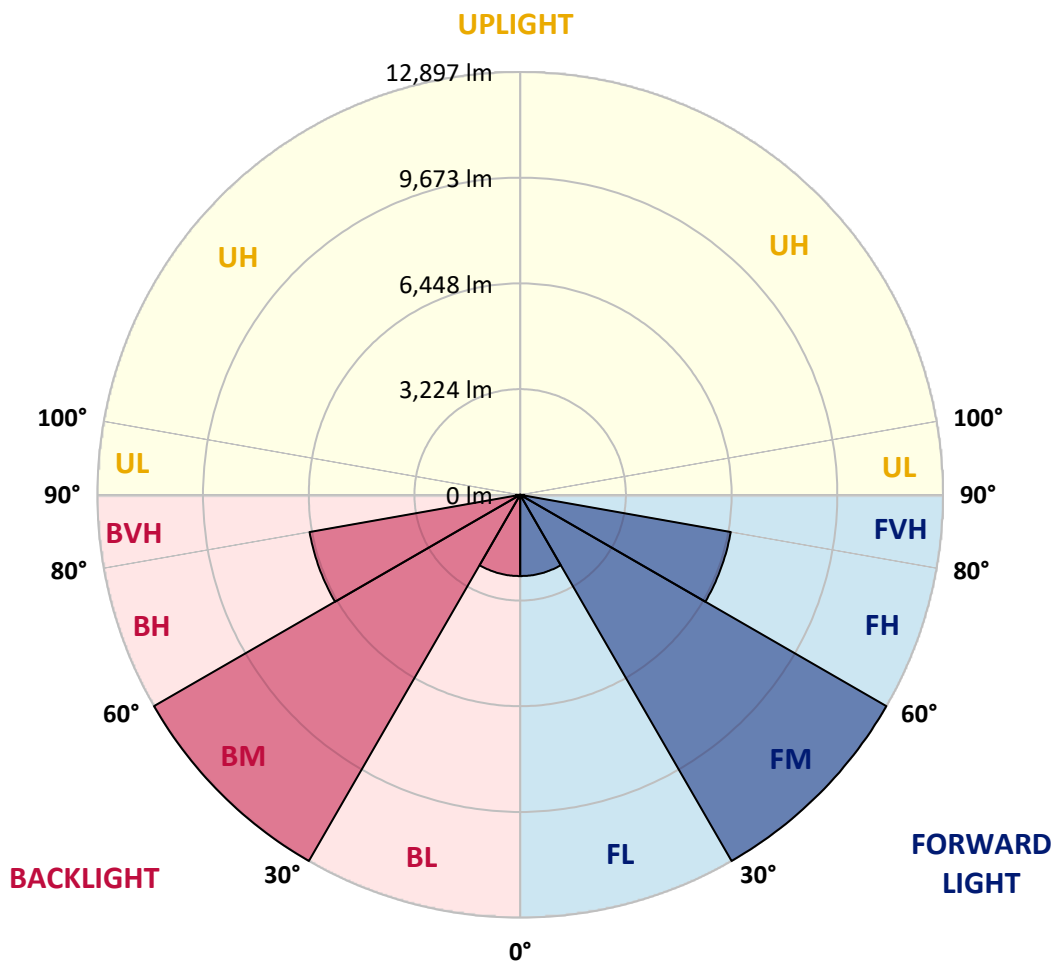
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2478.5	5.6			
FM (30°-60°)	12896.8	29.3			
FH (60°-80°)	6522.7	14.8			G3/7500
FVH (80°-90°)	126.0	0.3			G2/225
BL (0°-30°)	2478.5	5.6	B3/2500		
BM (30°-60°)	12896.8	29.3	B5		
BH (60°-80°)	6522.7	14.8	B5		G3/7500
BVH (80°-90°)	126.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1
2.5°	4988.2	4992.3	4996.4	4992.3	4996.4	4990.2	4986.1	4992.3	4986.1	4979.9	4984.1
5°	5031.5	5033.6	5033.6	5027.4	5033.6	5029.4	5023.3	5031.5	5025.3	5019.1	5023.3
7.5°	5103.7	5112.0	5105.8	5099.6	5103.7	5099.6	5095.5	5097.5	5095.5	5089.3	5091.3
10°	5200.7	5206.9	5202.7	5200.7	5204.8	5202.7	5198.6	5196.5	5198.6	5192.4	5192.4
12.5°	5318.3	5316.2	5314.1	5316.2	5322.4	5322.4	5320.3	5322.4	5326.5	5328.6	5324.4
15°	5433.8	5437.9	5437.9	5437.9	5450.3	5460.6	5466.8	5470.9	5479.2	5481.2	5473.0
17.5°	5578.2	5578.2	5576.1	5578.2	5590.6	5607.1	5613.3	5621.5	5629.8	5635.9	5625.6
20°	5739.1	5743.2	5743.2	5747.3	5763.8	5782.4	5782.4	5786.5	5782.4	5786.5	5780.3
22.5°	5935.1	5947.4	5947.4	5949.5	5966.0	5988.7	5982.5	5988.7	5978.4	5986.6	5978.4
25°	6190.9	6209.4	6205.3	6205.3	6217.7	6232.1	6234.2	6246.6	6244.5	6254.8	6248.6
27.5°	6479.7	6508.6	6516.8	6514.8	6523.0	6537.4	6541.6	6556.0	6547.8	6556.0	6551.9
30°	6826.3	6838.6	6855.1	6861.3	6871.6	6886.1	6886.1	6888.1	6877.8	6890.2	6896.4
32.5°	7185.2	7207.9	7224.4	7261.5	7280.1	7290.4	7288.4	7292.5	7282.2	7298.7	7311.0
35°	7659.7	7676.2	7703.0	7731.9	7756.6	7754.6	7748.4	7750.5	7750.5	7764.9	7777.3
37.5°	8231.1	8235.2	8270.3	8311.6	8323.9	8311.6	8274.4	8266.2	8247.6	8266.2	8286.8
40°	8835.6	8850.0	8920.1	8947.0	8953.1	8930.5	8876.8	8845.9	8804.6	8827.3	8856.2
42.5°	9468.9	9497.8	9561.7	9609.2	9629.8	9615.3	9541.1	9493.6	9440.0	9452.4	9481.3
45°	10170.3	10205.3	10296.1	10341.5	10380.7	10358.0	10285.8	10213.6	10129.0	10135.2	10180.6
47.5°	10954.2	10989.3	11106.9	11183.2	11203.8	11199.7	11119.2	11020.2	10904.7	10900.6	10939.8
50°	11833.0	11868.1	12014.5	12132.1	12192.0	12185.8	12090.9	11950.6	11810.3	11812.4	11861.9
52.5°	12691.2	12734.5	12887.2	13089.3	13206.9	13291.5	13233.7	13101.7	12930.5	12934.6	12980.0
55°	13495.7	13567.9	13743.3	14017.7	14236.3	14473.6	14541.6	14537.5	14434.4	14463.2	14508.6
57.5°	13885.6	13992.9	14263.1	14696.4	15142.0	15624.7	16033.1	16338.5	16468.4	16664.4	16619.0
60°	13147.1	13318.3	13716.5	14353.9	15234.8	16241.5	17320.4	18374.6	19274.0	19952.7	19562.8
62.5°	10764.4	10987.2	11469.9	12286.9	13619.5	15230.7	17295.7	19787.7	22502.5	24140.5	22970.8
65°	6735.5	6966.5	7457.5	8332.2	9891.8	11894.9	14696.4	18826.4	23899.1	26368.5	23987.8
67.5°	2626.1	2752.0	3018.1	3577.1	4748.9	6531.3	9343.0	14030.0	20097.1	22261.1	19723.7
70°	1316.2	1328.5	1378.0	1481.2	1732.9	2250.7	3424.5	6504.4	11525.6	13920.7	11111.0
72.5°	951.0	953.1	977.8	1023.2	1103.7	1219.2	1442.0	1990.7	3748.4	5728.8	3513.2
75°	728.2	736.5	750.9	775.7	819.0	876.7	957.2	1147.0	1421.4	1648.3	1386.3
77.5°	561.1	577.6	587.9	610.6	637.4	676.6	699.3	771.5	897.4	944.8	930.4
80°	427.0	441.5	464.2	482.7	501.3	519.9	511.6	544.6	610.6	649.8	629.2
82.5°	272.3	288.8	354.8	371.3	379.6	392.0	377.5	379.6	408.5	433.2	408.5
85°	175.3	185.7	224.9	245.5	247.6	255.8	249.6	235.2	235.2	214.5	241.4
87.5°	80.5	82.5	101.1	119.7	123.8	111.4	109.3	105.2	84.6	80.5	86.6
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°	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1	4984.1
2.5°	4982.0	4986.1	4988.2	4994.4	4996.4	4996.4	4998.5	5002.6
5°	5021.2	5027.4	5029.4	5037.7	5039.8	5037.7	5041.8	5043.9
7.5°	5091.3	5101.6	5105.8	5114.0	5107.8	5116.1	5118.1	5118.1
10°	5194.5	5204.8	5206.9	5215.1	5211.0	5215.1	5215.1	5211.0
12.5°	5330.6	5332.7	5326.5	5332.7	5324.4	5328.6	5322.4	5318.3
15°	5481.2	5475.0	5460.6	5460.6	5448.2	5450.3	5448.2	5446.2
17.5°	5627.7	5615.3	5605.0	5600.9	5590.6	5588.5	5582.3	5582.3
20°	5788.6	5782.4	5776.2	5768.0	5757.7	5747.3	5745.3	5749.4
22.5°	5982.5	5980.5	5980.5	5976.3	5961.9	5951.6	5945.4	5945.4
25°	6242.4	6223.9	6223.9	6221.8	6215.6	6209.4	6197.1	6203.3
27.5°	6535.4	6525.1	6533.3	6531.3	6525.1	6525.1	6516.8	6516.8
30°	6896.4	6892.3	6904.6	6894.3	6873.7	6871.6	6863.4	6853.1
32.5°	7313.1	7309.0	7327.6	7315.2	7282.2	7263.6	7247.1	7238.8
35°	7777.3	7779.3	7802.0	7793.8	7756.6	7744.3	7715.4	7711.3
37.5°	8284.8	8317.8	8357.0	8365.2	8334.3	8326.0	8295.1	8278.6
40°	8880.9	8924.3	8984.1	8998.5	8965.5	8959.3	8916.0	8893.3
42.5°	9516.3	9590.6	9664.9	9677.2	9644.2	9611.2	9570.0	9553.5
45°	10226.0	10314.7	10411.6	10436.4	10386.9	10347.7	10294.1	10294.1
47.5°	11022.3	11133.7	11243.0	11311.1	11265.7	11224.4	11160.5	11119.2
50°	11963.0	12115.6	12258.0	12328.1	12255.9	12177.5	12066.1	12029.0
52.5°	13143.0	13308.0	13431.8	13394.6	13283.2	13173.9	13052.2	13002.7
55°	14648.9	14704.6	14704.6	14564.3	14341.5	14157.9	13966.1	13902.1
57.5°	16532.4	16317.8	15987.8	15569.0	15042.9	14585.0	14275.5	14129.1
60°	18745.9	17714.4	16548.9	15403.9	14463.2	13687.6	13227.5	13017.1
62.5°	20220.9	17522.6	15187.3	13349.3	11996.0	11061.5	10426.1	10178.5
65°	18898.6	14613.8	11486.4	9287.3	7812.3	6861.3	6232.1	6001.1
67.5°	13842.3	9157.4	6116.6	4383.7	3212.0	2562.2	2304.3	2197.0
70°	6213.6	3224.4	1976.3	1543.1	1330.6	1221.3	1173.8	1157.3
72.5°	1873.1	1355.3	1142.9	1031.5	946.9	893.3	854.1	849.9
75°	1130.5	940.7	835.5	769.5	715.8	672.5	651.9	645.7
77.5°	790.1	691.1	641.6	594.1	552.9	519.9	501.3	486.9
80°	554.9	507.5	484.8	458.0	431.2	400.2	373.4	361.0
82.5°	371.3	361.0	361.0	344.5	321.8	292.9	239.3	226.9
85°	239.3	237.2	241.4	235.2	218.7	187.7	154.7	146.5
87.5°	111.4	113.5	125.8	123.8	119.7	99.0	78.4	74.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)