

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: P269382

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269382  
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-06-LED-E1-RW-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20831 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 193  
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

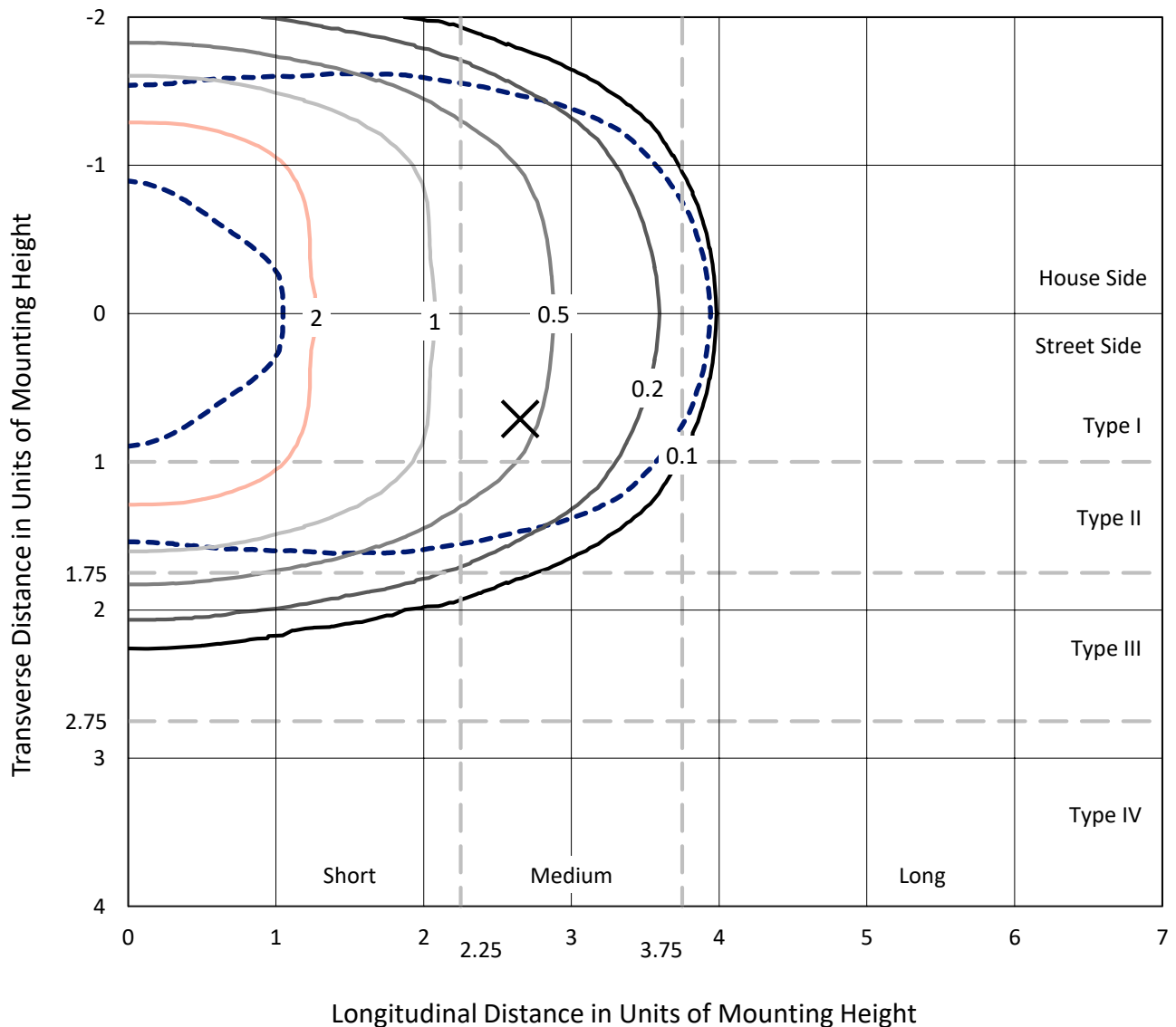


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### Iso-Footcandle Lines of Horizontal Illumination

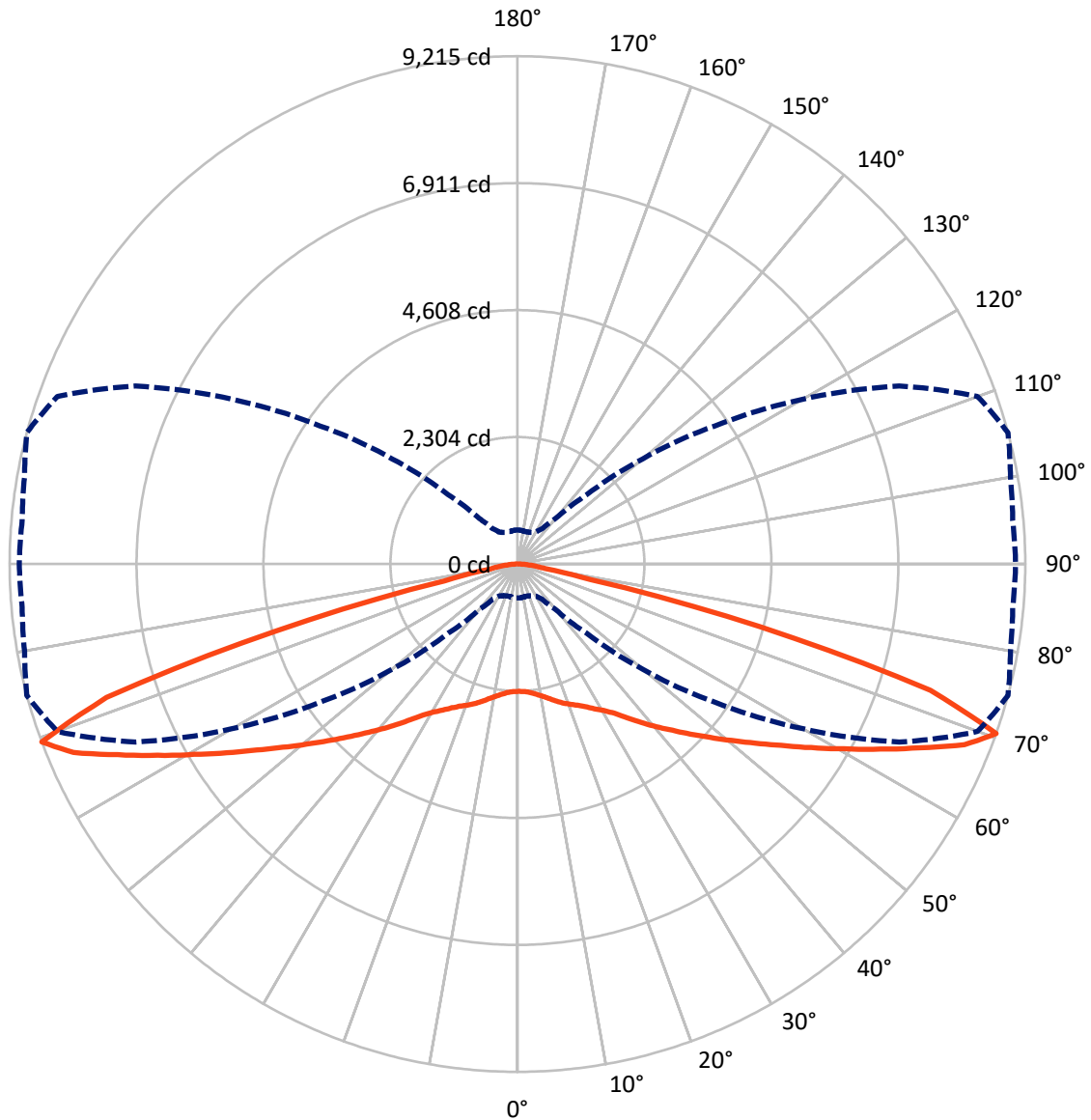
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	10415.5	0.0	10415.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10415.5	0.0	10415.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20831.0	0.0	20831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.6	1.1
10°-20°	688.6	3.3
20°-30°	1296.0	6.2
30°-40°	2295.0	11.0
40°-50°	3837.9	18.4
50°-60°	5348.1	25.7
60°-70°	4959.5	23.8
70°-80°	1976.5	9.5
80°-90°	207.8	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°	20831.0	100.0
0°-180°	20831.0	100.0

**Coefficient of Utilization**



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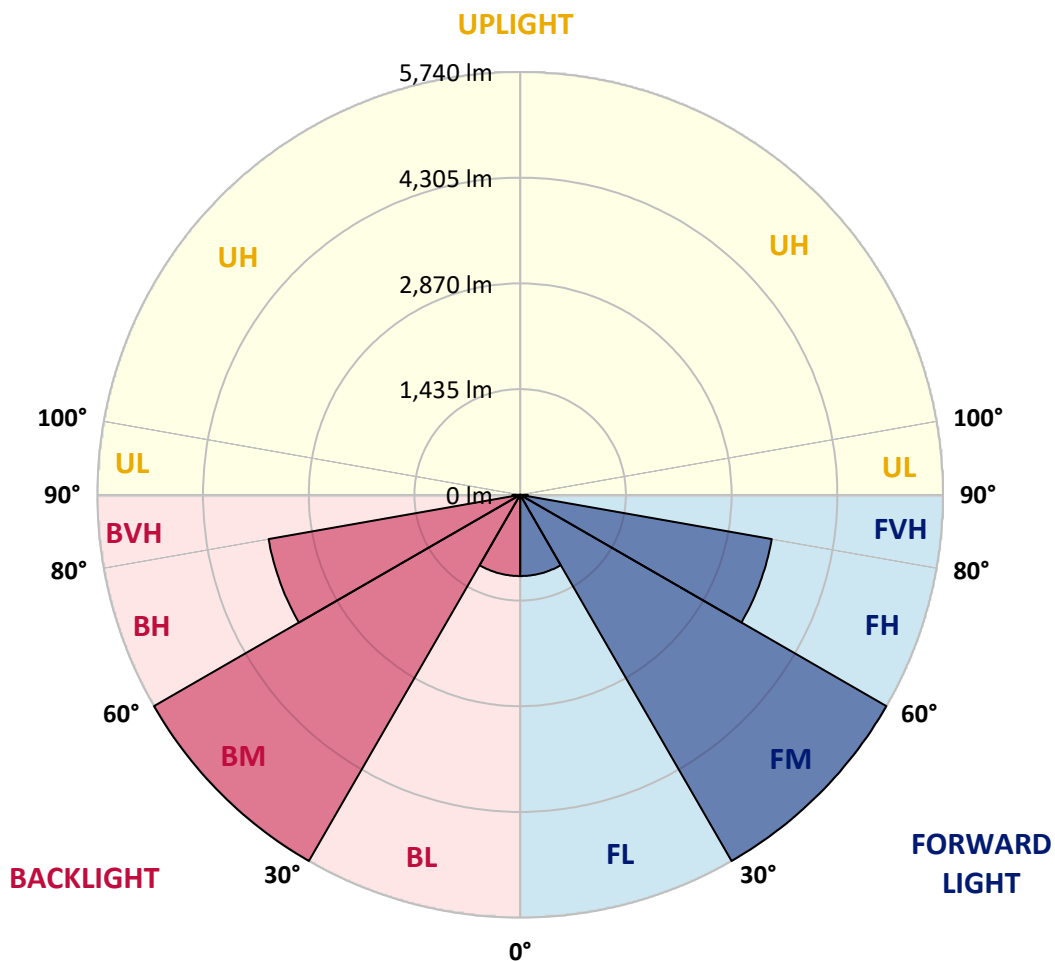
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.1	5.3			
FM	(30°-60°)	5740.5	27.6			
FH	(60°-80°)	3468.0	16.6			G2/5000
FVH	(80°-90°)	103.9	0.5			G2/225
BL	(0°-30°)	1103.1	5.3	B3/2500		
BM	(30°-60°)	5740.5	27.6	B4/8500		
BH	(60°-80°)	3468.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	103.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6
2.5°	2306.7	2304.7	2306.7	2305.7	2307.7	2307.7	2309.6	2313.6	2313.6	2316.5	2315.7
5°	2284.1	2283.0	2286.0	2289.1	2291.9	2297.9	2303.8	2312.5	2319.6	2324.5	2329.3
7.5°	2239.7	2239.7	2243.6	2250.6	2257.5	2270.2	2284.1	2301.7	2319.6	2334.2	2347.1
10°	2203.4	2205.2	2210.2	2222.0	2233.8	2253.6	2272.3	2297.9	2322.5	2347.1	2366.8
12.5°	2181.7	2184.6	2193.5	2211.2	2230.9	2257.5	2286.0	2318.5	2346.1	2375.6	2395.3
15°	2188.6	2190.5	2203.4	2225.0	2250.6	2284.1	2322.5	2360.8	2393.4	2424.9	2451.5
17.5°	2227.0	2230.0	2244.7	2269.3	2295.9	2335.2	2376.6	2419.9	2460.3	2495.8	2528.2
20°	2295.9	2298.9	2317.5	2344.0	2375.6	2416.0	2457.4	2502.6	2548.0	2585.3	2621.8
22.5°	2393.4	2398.3	2416.0	2442.5	2478.1	2521.4	2570.6	2618.7	2662.0	2696.5	2729.1
25°	2521.4	2532.1	2548.9	2578.4	2615.9	2655.2	2708.4	2757.5	2798.9	2831.5	2855.1
27.5°	2702.6	2717.3	2729.9	2758.5	2795.0	2832.4	2885.5	2929.0	2968.3	2999.8	3017.4
30°	2942.7	2957.5	2970.2	2997.9	3031.3	3066.8	3116.9	3155.3	3180.0	3204.6	3203.5
32.5°	3234.1	3249.9	3254.7	3284.4	3318.8	3357.1	3402.5	3424.1	3443.8	3446.7	3429.0
35°	3560.0	3567.9	3587.6	3626.9	3666.3	3697.9	3741.1	3752.0	3752.0	3737.2	3697.9
37.5°	3917.4	3922.3	3949.8	3994.1	4034.5	4066.9	4096.5	4118.2	4107.4	4075.9	4009.9
40°	4309.2	4318.1	4357.4	4396.8	4442.1	4472.7	4504.1	4508.1	4497.3	4450.9	4361.5
42.5°	4683.4	4691.2	4730.6	4792.5	4851.7	4894.0	4923.5	4929.4	4895.0	4852.6	4741.3
45°	5005.3	5025.8	5077.1	5150.0	5235.6	5295.7	5336.0	5352.8	5322.3	5267.1	5138.1
47.5°	5260.3	5280.9	5353.8	5440.3	5546.8	5644.2	5711.2	5746.5	5738.7	5697.3	5556.6
50°	5447.3	5466.9	5545.7	5652.0	5776.1	5897.3	6011.4	6096.1	6125.6	6106.9	5978.0
52.5°	5468.9	5501.4	5593.9	5736.8	5898.2	6063.6	6226.1	6369.7	6467.3	6482.0	6386.5
55°	5166.7	5199.2	5327.2	5538.8	5779.1	6048.7	6308.7	6550.9	6742.9	6841.3	6791.1
57.5°	4453.8	4511.9	4646.9	4895.0	5248.3	5652.0	6066.6	6496.7	6887.7	7148.5	7198.7
60°	3413.3	3482.2	3618.1	3881.9	4275.8	4757.2	5310.4	5946.4	6636.6	7223.4	7573.8
62.5°	2189.6	2254.6	2397.2	2626.6	2947.6	3469.4	4063.0	4818.1	5745.6	6672.0	7506.9
65°	1125.2	1160.7	1235.6	1374.3	1624.5	2014.3	2547.0	3300.1	4360.5	5503.3	6710.3
67.5°	712.7	719.7	736.4	756.2	820.2	955.0	1203.1	1672.6	2545.0	3737.2	5150.0
70°	616.2	616.2	608.4	605.5	613.4	632.0	670.5	779.6	1074.2	1774.2	2970.2
72.5°	564.1	558.1	544.5	533.7	531.6	531.6	539.5	556.2	603.5	722.6	1162.6
75°	519.8	503.1	484.4	471.6	466.7	461.6	460.7	463.7	473.5	492.2	555.2
77.5°	465.7	444.0	422.4	409.5	403.7	396.7	390.9	383.9	379.1	385.0	412.5
80°	400.7	376.1	359.3	351.4	345.6	335.7	322.9	311.2	300.3	298.2	315.0
82.5°	322.9	294.4	295.4	298.2	287.5	273.8	259.9	247.2	228.3	218.6	228.3
85°	260.9	246.1	239.2	258.0	242.3	221.5	199.9	177.2	147.7	124.1	134.8
87.5°	101.4	101.4	151.6	233.3	209.8	171.2	146.8	125.0	77.8	60.0	61.1
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°	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6	2310.6
2.5°	2314.6	2316.5	2315.7	2314.6	2314.6	2313.6	2314.6	2314.6
5°	2332.3	2337.2	2337.2	2339.1	2339.1	2340.2	2341.2	2340.2
7.5°	2358.9	2367.8	2373.6	2380.6	2381.5	2382.6	2384.6	2382.6
10°	2385.4	2403.1	2416.0	2428.7	2434.6	2436.7	2438.5	2438.5
12.5°	2419.0	2443.6	2466.1	2488.8	2499.7	2505.6	2505.6	2509.5
15°	2474.0	2498.6	2525.2	2555.8	2574.5	2584.3	2587.3	2587.3
17.5°	2551.8	2573.6	2596.1	2625.7	2649.3	2662.0	2665.0	2664.1
20°	2642.5	2663.0	2676.0	2694.6	2715.2	2729.9	2734.0	2734.0
22.5°	2745.8	2757.5	2759.6	2765.5	2782.2	2802.0	2810.7	2812.8
25°	2860.1	2863.0	2855.1	2855.1	2866.0	2884.5	2893.5	2894.5
27.5°	3007.6	2993.0	2973.2	2966.4	2973.2	2994.9	3005.6	3009.6
30°	3191.8	3156.4	3111.0	3086.4	3082.5	3111.0	3130.8	3133.6
32.5°	3402.5	3351.2	3291.2	3240.9	3228.1	3245.9	3269.6	3268.6
35°	3652.5	3591.5	3518.7	3454.6	3425.1	3442.8	3476.4	3480.3
37.5°	3941.0	3861.3	3777.6	3696.9	3650.5	3655.5	3691.0	3702.8
40°	4262.9	4159.5	4054.2	3946.0	3880.0	3867.2	3910.4	3917.4
42.5°	4607.4	4474.5	4341.7	4207.8	4123.1	4103.5	4153.7	4150.7
45°	4974.8	4805.4	4649.8	4502.1	4401.8	4372.2	4413.6	4413.6
47.5°	5369.4	5160.9	4975.7	4808.4	4699.0	4656.8	4696.1	4699.0
50°	5787.9	5566.3	5348.9	5162.7	5031.9	4977.7	5028.8	5036.7
52.5°	6204.4	5988.8	5769.3	5556.6	5398.1	5332.1	5391.2	5416.8
55°	6626.7	6415.1	6205.3	5997.7	5809.6	5731.8	5794.7	5827.2
57.5°	7072.6	6876.7	6676.9	6467.3	6286.1	6165.0	6231.9	6275.3
60°	7595.4	7428.2	7220.3	6989.1	6805.9	6682.9	6721.2	6759.7
62.5°	8009.0	8074.0	7897.7	7629.9	7394.7	7237.1	7274.6	7314.9
65°	7809.1	8475.6	8632.2	8361.5	8035.6	7790.5	7774.7	7795.3
67.5°	6527.3	7821.9	8766.1	9024.1	8751.3	8410.7	8347.6	8378.1
70°	4366.3	5978.8	7644.7	8885.1	9215.1	9083.0	9021.0	9039.7
72.5°	2097.1	3482.2	5186.4	6835.5	7839.7	8300.3	8448.1	8520.0
75°	767.0	1382.2	2499.7	3766.8	4547.4	5264.2	5731.8	5922.7
77.5°	462.6	558.1	798.5	1202.1	1361.7	1524.1	1461.1	1492.5
80°	342.7	386.9	438.2	492.2	510.0	510.0	490.3	474.6
82.5°	240.2	268.8	293.3	322.9	330.8	316.1	259.9	206.7
85°	154.6	167.4	178.3	196.9	192.0	183.2	123.1	109.2
87.5°	70.8	80.8	84.7	93.6	89.7	85.7	61.1	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)