

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: P193392

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193392  
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-04-LED-E1-5NQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20211 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

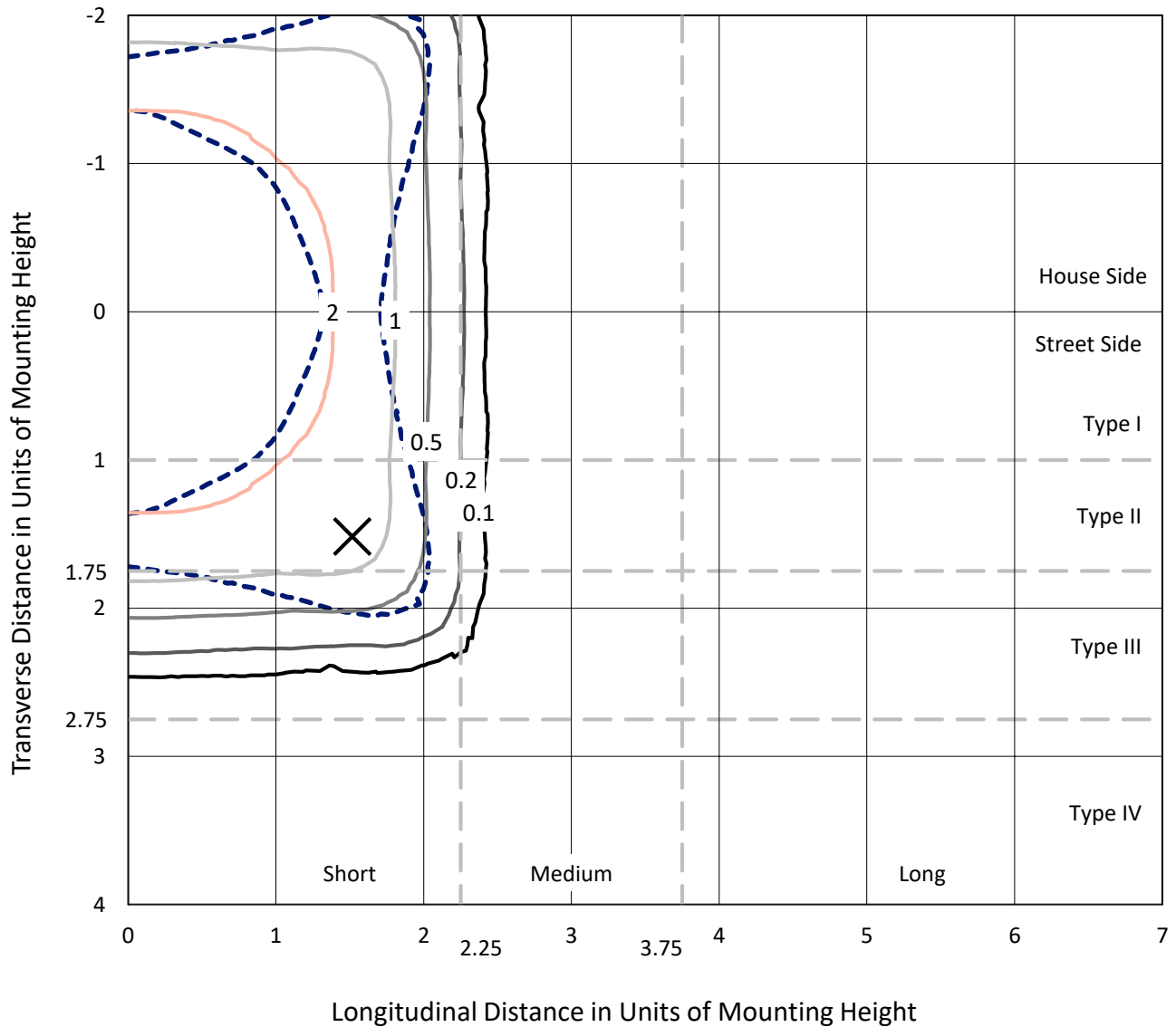
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

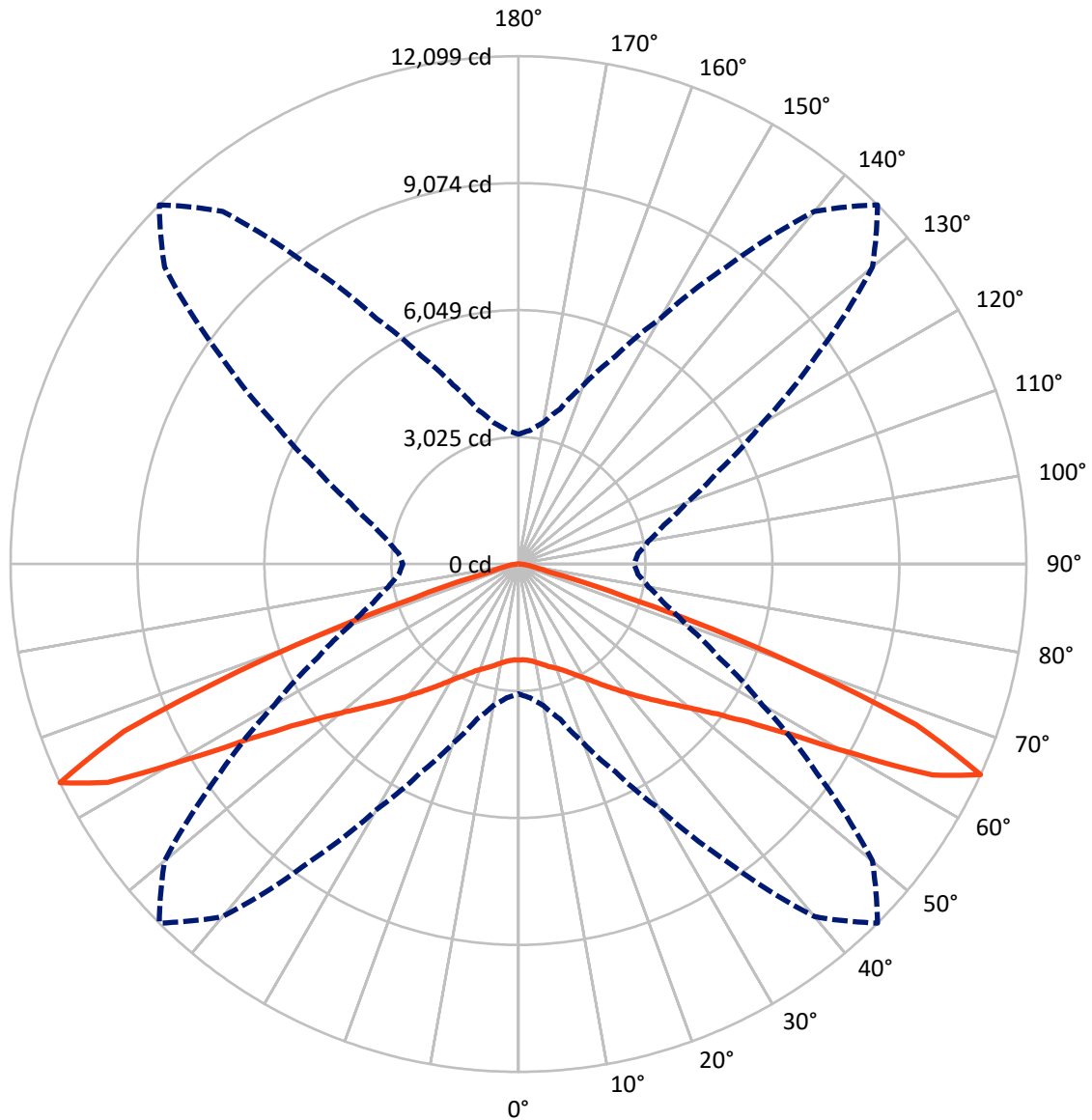
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type 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	10105.5	0.0	10105.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10105.5	0.0	10105.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20211.0	0.0	20211.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.9	1.1
10°-20°	714.9	3.5
20°-30°	1336.7	6.6
30°-40°	2260.7	11.2
40°-50°	3696.5	18.3
50°-60°	5878.0	29.1
60°-70°	5313.3	26.3
70°-80°	672.4	3.3
80°-90°	115.7	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°	20211.0	100.0
0°-180°	20211.0	100.0



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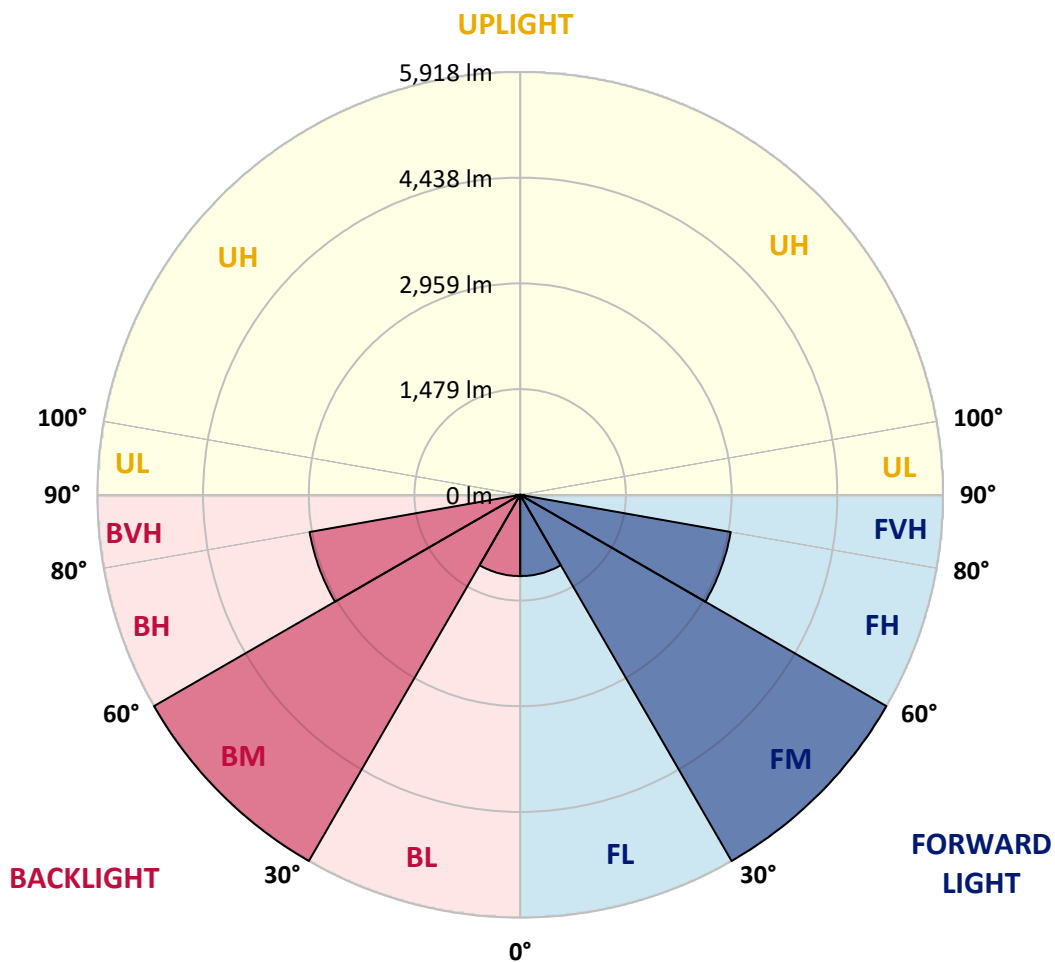
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.2	5.6			
FM	(30°-60°)	5917.6	29.3			
FH	(60°-80°)	2992.9	14.8			G2/5000
FVH	(80°-90°)	57.8	0.3			G1/100
BL	(0°-30°)	1137.2	5.6	B3/2500		
BM	(30°-60°)	5917.6	29.3	B4/8500		
BH	(60°-80°)	2992.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	57.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9
2.5°	2288.8	2290.7	2292.6	2290.7	2292.6	2289.7	2287.8	2290.7	2287.8	2285.0	2286.9
5°	2308.7	2309.6	2309.6	2306.8	2309.6	2307.7	2304.9	2308.7	2305.8	2303.0	2304.9
7.5°	2341.8	2345.6	2342.7	2339.9	2341.8	2339.9	2338.0	2338.9	2338.0	2335.2	2336.1
10°	2386.3	2389.1	2387.2	2386.3	2388.2	2387.2	2385.3	2384.4	2385.3	2382.5	2382.5
12.5°	2440.2	2439.3	2438.3	2439.3	2442.1	2442.1	2441.2	2442.1	2444.0	2445.0	2443.1
15°	2493.2	2495.1	2495.1	2495.1	2500.8	2505.5	2508.4	2510.3	2514.1	2515.0	2511.2
17.5°	2559.5	2559.5	2558.5	2559.5	2565.2	2572.7	2575.6	2579.4	2583.2	2586.0	2581.3
20°	2633.3	2635.2	2635.2	2637.1	2644.7	2653.2	2653.2	2655.1	2653.2	2655.1	2652.3
22.5°	2723.2	2728.9	2728.9	2729.9	2737.4	2747.9	2745.0	2747.9	2743.1	2746.9	2743.1
25°	2840.6	2849.1	2847.2	2847.2	2852.9	2859.6	2860.5	2866.2	2865.2	2870.0	2867.1
27.5°	2973.1	2986.4	2990.2	2989.2	2993.0	2999.6	3001.5	3008.2	3004.4	3008.2	3006.3
30°	3132.2	3137.8	3145.4	3148.3	3153.0	3159.6	3159.6	3160.6	3155.8	3161.5	3164.3
32.5°	3296.9	3307.3	3314.8	3331.9	3340.4	3345.1	3344.2	3346.1	3341.4	3348.9	3354.6
35°	3514.6	3522.1	3534.4	3547.7	3559.1	3558.1	3555.3	3556.2	3556.2	3562.8	3568.5
37.5°	3776.8	3778.7	3794.8	3813.7	3819.4	3813.7	3796.6	3792.9	3784.3	3792.9	3802.3
40°	4054.1	4060.7	4092.9	4105.2	4108.1	4097.7	4073.0	4058.8	4039.9	4050.3	4063.6
42.5°	4344.7	4358.0	4387.3	4409.1	4418.5	4411.9	4377.8	4356.1	4331.5	4337.1	4350.4
45°	4666.5	4682.6	4724.3	4745.1	4763.1	4752.7	4719.5	4686.4	4647.6	4650.4	4671.3
47.5°	5026.2	5042.3	5096.3	5131.3	5140.8	5138.9	5102.0	5056.5	5003.5	5001.6	5019.6
50°	5429.5	5445.6	5512.8	5566.7	5594.2	5591.3	5547.8	5483.4	5419.0	5420.0	5442.7
52.5°	5823.2	5843.1	5913.2	6005.9	6059.9	6098.7	6072.2	6011.6	5933.0	5934.9	5955.7
55°	6192.4	6225.5	6306.0	6431.9	6532.2	6641.1	6672.3	6670.4	6623.1	6636.3	6657.1
57.5°	6371.3	6420.5	6544.5	6743.3	6947.7	7169.2	7356.7	7496.7	7556.4	7646.3	7625.5
60°	6032.4	6111.0	6293.7	6586.2	6990.3	7452.3	7947.3	8431.0	8843.7	9155.1	8976.2
62.5°	4939.1	5041.4	5262.9	5637.7	6249.2	6988.4	7935.9	9079.4	10325.1	11076.6	10539.9
65°	3090.5	3196.5	3421.8	3823.2	4538.7	5457.9	6743.3	8638.3	10965.9	12098.9	11006.6
67.5°	1205.0	1262.7	1384.8	1641.3	2179.0	2996.8	4287.0	6437.5	9221.4	10214.3	9050.0
70°	603.9	609.6	632.3	679.6	795.1	1032.7	1571.3	2984.5	5288.4	6387.4	5098.2
72.5°	436.4	437.3	448.7	469.5	506.4	559.4	661.6	913.4	1719.9	2628.6	1612.0
75°	334.1	337.9	344.5	355.9	375.8	402.3	439.2	526.3	652.2	756.3	636.1
77.5°	257.5	265.0	269.8	280.2	292.5	310.5	320.9	354.0	411.8	433.5	426.9
80°	195.9	202.6	213.0	221.5	230.0	238.5	234.7	249.9	280.2	298.2	288.7
82.5°	124.9	132.5	162.8	170.4	174.2	179.8	173.2	174.2	187.4	198.8	187.4
85°	80.5	85.2	103.2	112.6	113.6	117.4	114.5	107.9	107.9	98.4	110.7
87.5°	36.9	37.9	46.4	54.9	56.8	51.1	50.2	48.3	38.8	36.9	39.8
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°	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9	2286.9
2.5°	2285.9	2287.8	2288.8	2291.6	2292.6	2292.6	2293.5	2295.4
5°	2303.9	2306.8	2307.7	2311.5	2312.4	2311.5	2313.4	2314.3
7.5°	2336.1	2340.8	2342.7	2346.5	2343.7	2347.5	2348.4	2348.4
10°	2383.4	2388.2	2389.1	2392.9	2391.0	2392.9	2392.9	2391.0
12.5°	2445.9	2446.9	2444.0	2446.9	2443.1	2445.0	2442.1	2440.2
15°	2515.0	2512.2	2505.5	2505.5	2499.9	2500.8	2499.9	2498.9
17.5°	2582.2	2576.5	2571.8	2569.9	2565.2	2564.2	2561.4	2561.4
20°	2656.0	2653.2	2650.4	2646.6	2641.8	2637.1	2636.2	2638.1
22.5°	2745.0	2744.1	2744.1	2742.2	2735.6	2730.8	2728.0	2728.0
25°	2864.3	2855.8	2855.8	2854.8	2852.0	2849.1	2843.5	2846.3
27.5°	2998.7	2994.0	2997.8	2996.8	2994.0	2994.0	2990.2	2990.2
30°	3164.3	3162.5	3168.1	3163.4	3153.9	3153.0	3149.2	3144.5
32.5°	3355.6	3353.7	3362.2	3356.5	3341.4	3332.8	3325.3	3321.5
35°	3568.5	3569.5	3579.9	3576.1	3559.1	3553.4	3540.1	3538.2
37.5°	3801.4	3816.5	3834.5	3838.3	3824.1	3820.3	3806.1	3798.5
40°	4074.9	4094.8	4122.3	4128.9	4113.7	4110.9	4091.0	4080.6
42.5°	4366.5	4400.6	4434.6	4440.3	4425.2	4410.0	4391.1	4383.5
45°	4692.1	4732.8	4777.3	4788.6	4765.9	4747.9	4723.3	4723.3
47.5°	5057.5	5108.6	5158.7	5190.0	5169.2	5150.2	5120.9	5102.0
50°	5489.1	5559.1	5624.5	5656.6	5623.5	5587.5	5536.4	5519.4
52.5°	6030.5	6106.2	6163.0	6146.0	6094.9	6044.7	5988.9	5966.2
55°	6721.5	6747.1	6747.1	6682.7	6580.5	6496.2	6408.2	6378.9
57.5°	7585.7	7487.3	7335.8	7143.7	6902.3	6692.2	6550.2	6483.0
60°	8601.4	8128.1	7593.3	7068.0	6636.3	6280.4	6069.3	5972.8
62.5°	9278.2	8040.1	6968.6	6125.2	5504.2	5075.4	4783.9	4670.3
65°	8671.4	6705.4	5270.4	4261.4	3584.6	3148.3	2859.6	2753.5
67.5°	6351.4	4201.8	2806.5	2011.4	1473.8	1175.6	1057.3	1008.1
70°	2851.0	1479.5	906.8	708.0	610.5	560.4	538.6	531.0
72.5°	859.5	621.9	524.4	473.3	434.5	409.9	391.9	390.0
75°	518.7	431.6	383.4	353.1	328.5	308.6	299.1	296.3
77.5°	362.5	317.1	294.4	272.6	253.7	238.5	230.0	223.4
80°	254.6	232.9	222.4	210.1	197.8	183.6	171.3	165.6
82.5°	170.4	165.6	165.6	158.1	147.7	134.4	109.8	104.1
85°	109.8	108.9	110.7	107.9	100.3	86.1	71.0	67.2
87.5°	51.1	52.1	57.7	56.8	54.9	45.4	36.0	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)