

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: P193344

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24657 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 249  
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

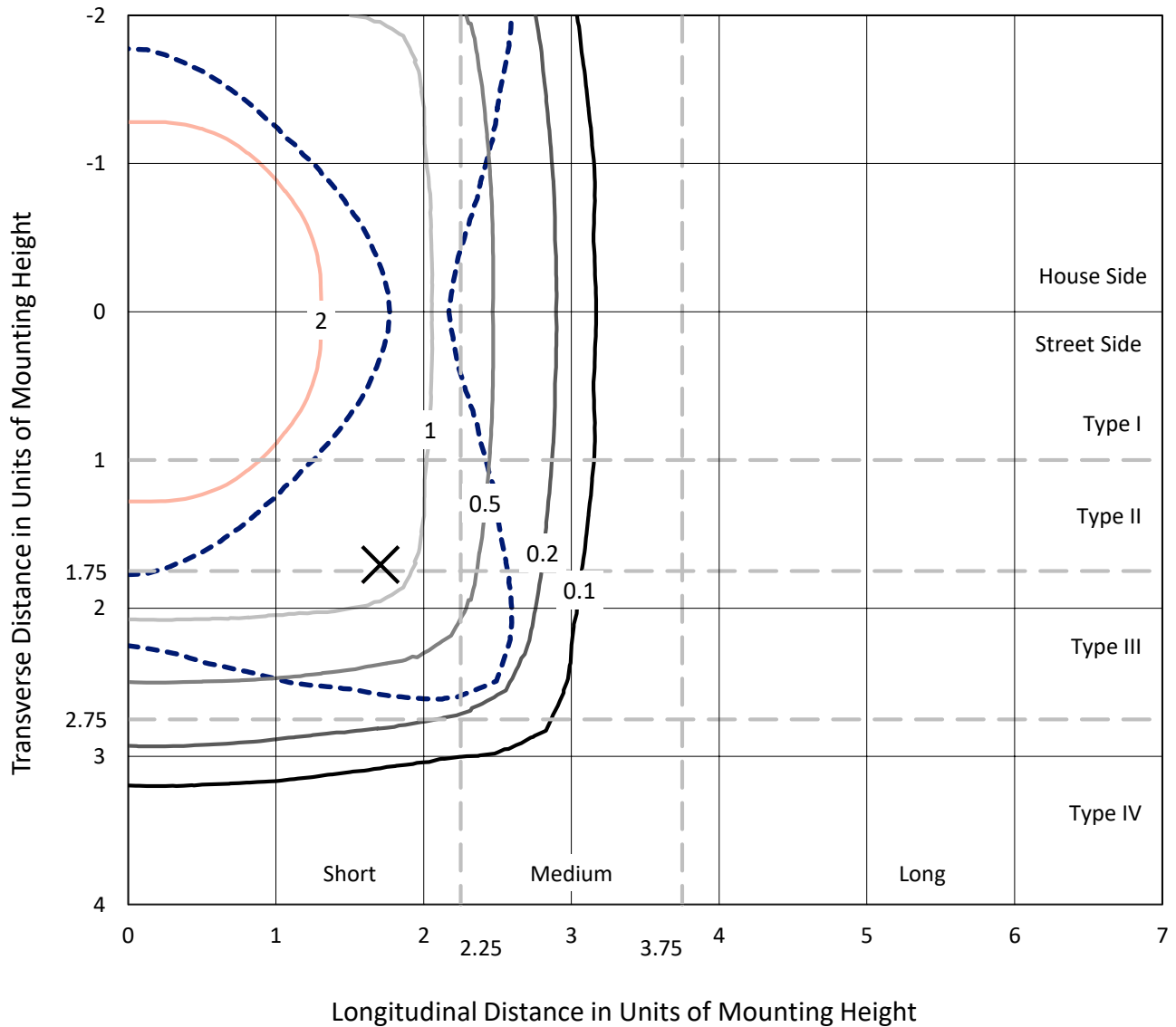


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

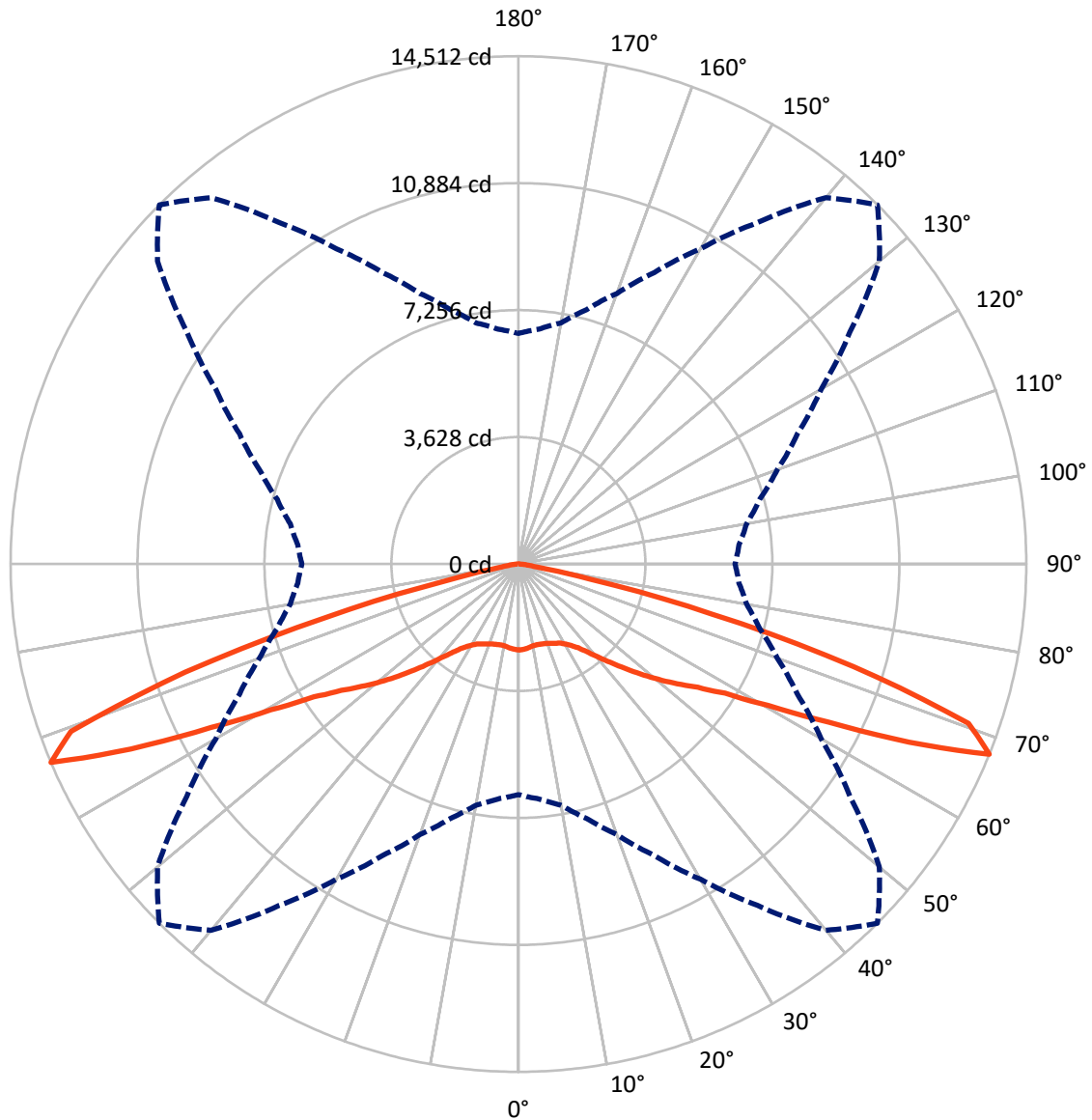


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12328.5	0.0	12328.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12328.5	0.0	12328.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24657.0	0.0	24657.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.0	0.9
10°-20°	667.4	2.7
20°-30°	1134.5	4.6
30°-40°	1854.6	7.5
40°-50°	3310.7	13.4
50°-60°	5582.0	22.6
60°-70°	8662.4	35.1
70°-80°	3043.6	12.3
80°-90°	172.0	0.7
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°	24657.0	100.0
0°-180°	24657.0	100.0



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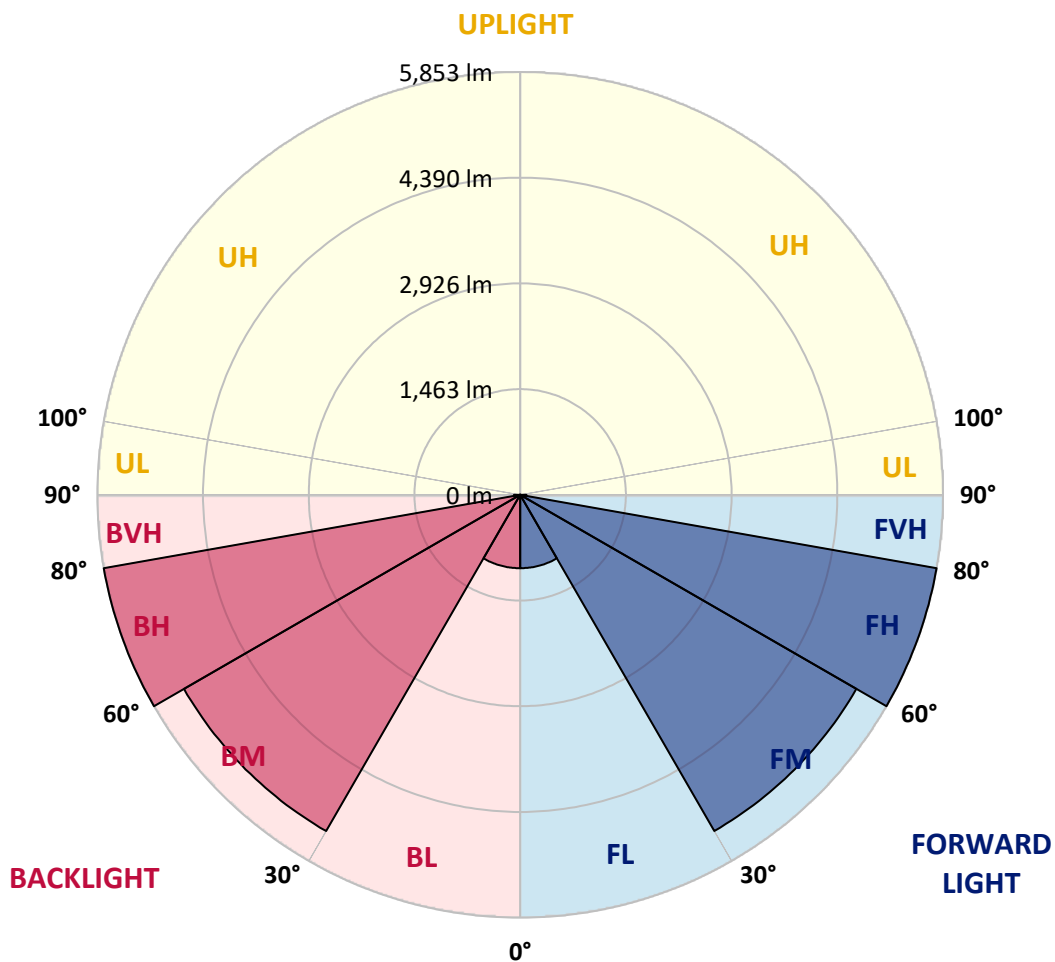
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.9	4.1			
FM	(30°-60°)	5373.6	21.8			
FH	(60°-80°)	5853.0	23.7			G3/7500
FVH	(80°-90°)	86.0	0.3			G1/100
BL	(0°-30°)	1015.9	4.1	B3/2500		
BM	(30°-60°)	5373.6	21.8	B4/8500		
BH	(60°-80°)	5853.0	23.7	B5		G3/7500
BVH	(80°-90°)	86.0	0.3			G1/100
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°	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2
2.5°	2448.1	2450.4	2450.4	2450.4	2449.2	2449.2	2447.0	2449.2	2448.1	2444.7	2445.8
5°	2427.7	2430.0	2430.0	2428.8	2432.2	2431.1	2427.7	2430.0	2428.8	2426.6	2427.7
7.5°	2398.2	2401.6	2401.6	2400.5	2403.9	2402.7	2400.5	2401.6	2401.6	2398.2	2398.2
10°	2365.3	2367.6	2367.6	2366.5	2372.1	2372.1	2371.0	2374.4	2375.5	2372.1	2369.9
12.5°	2334.7	2338.1	2338.1	2342.6	2348.3	2350.6	2356.3	2360.8	2365.3	2364.2	2359.7
15°	2316.6	2318.8	2323.4	2329.0	2338.1	2346.1	2355.1	2365.3	2374.4	2376.7	2369.9
17.5°	2305.2	2308.6	2315.4	2323.4	2335.8	2349.5	2363.1	2376.7	2389.1	2393.7	2385.7
20°	2301.8	2304.1	2310.9	2324.5	2341.5	2361.9	2381.2	2397.1	2414.1	2419.8	2414.1
22.5°	2308.6	2313.2	2321.1	2337.0	2359.7	2385.7	2408.4	2430.0	2451.5	2461.7	2453.8
25°	2339.2	2343.8	2354.0	2374.4	2399.3	2426.6	2452.6	2477.6	2496.9	2507.1	2501.4
27.5°	2395.9	2401.6	2414.1	2434.5	2461.7	2491.2	2519.5	2539.9	2555.8	2559.2	2552.4
30°	2481.0	2493.5	2508.2	2530.9	2562.6	2587.6	2615.9	2634.1	2653.3	2653.3	2647.7
32.5°	2613.7	2626.1	2642.0	2663.5	2688.5	2715.7	2740.7	2756.5	2776.9	2778.1	2764.5
35°	2812.1	2817.8	2831.4	2845.0	2867.6	2891.5	2913.0	2923.2	2940.2	2941.4	2928.9
37.5°	3074.0	3075.2	3084.2	3088.8	3109.2	3135.2	3155.7	3162.5	3178.3	3176.1	3163.6
40°	3379.0	3384.7	3388.1	3394.9	3416.5	3441.4	3462.9	3466.4	3483.4	3480.0	3464.1
42.5°	3731.7	3734.0	3753.2	3763.4	3783.8	3796.3	3823.5	3826.9	3847.3	3838.3	3820.1
45°	4127.4	4147.8	4166.0	4186.4	4207.9	4222.7	4244.2	4239.7	4253.3	4239.7	4229.5
47.5°	4543.6	4558.3	4599.1	4630.9	4666.0	4678.5	4709.1	4695.5	4709.1	4689.8	4686.4
50°	5001.7	5027.7	5062.9	5099.2	5136.6	5157.0	5196.7	5179.7	5197.8	5179.7	5169.5
52.5°	5453.0	5459.8	5536.9	5590.2	5642.3	5666.1	5689.9	5682.0	5683.1	5682.0	5671.8
55°	5881.6	5897.4	5974.6	6047.1	6137.8	6204.7	6245.6	6241.0	6230.8	6220.6	6203.6
57.5°	6364.6	6380.5	6468.9	6558.5	6661.7	6756.9	6839.7	6924.8	6957.6	6966.7	6929.3
60°	7017.7	7016.6	7134.5	7243.4	7390.8	7532.5	7714.0	7898.8	8110.8	8209.5	8079.1
62.5°	7682.2	7709.4	7879.5	8072.3	8376.2	8672.1	9006.6	9335.4	9671.1	9944.4	9654.1
65°	7602.8	7707.2	7960.0	8396.6	8957.9	9624.6	10345.8	11108.9	11798.3	12272.3	11740.5
67.5°	6589.1	6737.7	6995.1	7525.7	8227.6	9189.2	10400.2	11909.4	13663.6	14511.7	13460.6
70°	4776.0	4943.8	5213.7	5731.9	6427.0	7340.9	8656.2	10468.2	12790.5	13645.4	12487.7
72.5°	2376.7	2467.4	2634.1	2964.0	3490.2	4231.7	5424.6	7166.3	9220.9	10005.6	8947.7
75°	807.3	849.3	877.6	985.4	1152.0	1443.5	2036.5	3133.0	4779.4	5729.6	4711.4
77.5°	466.0	467.2	486.4	505.7	534.1	565.8	645.2	847.0	1465.0	2080.7	1516.0
80°	301.6	300.5	316.4	331.1	350.4	366.3	370.8	392.3	452.4	536.3	479.6
82.5°	156.5	175.8	210.9	230.2	266.5	273.3	264.2	256.3	271.0	281.2	288.0
85°	86.2	74.8	112.3	145.1	161.0	163.3	163.3	154.2	159.9	156.5	170.1
87.5°	39.7	36.3	44.2	71.4	76.0	64.6	68.0	60.1	43.1	42.0	47.6
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°	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2	2457.2
2.5°	2445.8	2447.0	2447.0	2450.4	2451.5	2453.8	2456.0	2457.2
5°	2426.6	2430.0	2427.7	2431.1	2431.1	2433.4	2433.4	2434.5
7.5°	2398.2	2401.6	2401.6	2401.6	2400.5	2403.9	2403.9	2403.9
10°	2368.7	2371.0	2369.9	2367.6	2365.3	2368.7	2367.6	2366.5
12.5°	2359.7	2354.0	2349.5	2347.2	2342.6	2343.8	2340.4	2340.4
15°	2365.3	2355.1	2347.2	2343.8	2339.2	2337.0	2334.7	2335.8
17.5°	2380.1	2367.6	2357.4	2351.7	2346.1	2342.6	2338.1	2339.2
20°	2406.1	2391.4	2376.7	2365.3	2355.1	2349.5	2346.1	2344.9
22.5°	2444.7	2423.2	2401.6	2384.6	2371.0	2363.1	2359.7	2357.4
25°	2488.9	2465.1	2440.2	2420.9	2407.3	2397.1	2390.3	2390.3
27.5°	2544.5	2525.2	2502.5	2479.9	2467.4	2457.2	2452.6	2450.4
30°	2637.5	2619.3	2601.2	2579.6	2563.8	2553.6	2545.6	2538.8
32.5°	2756.5	2741.8	2727.0	2711.2	2696.4	2682.8	2670.3	2664.7
35°	2924.3	2913.0	2902.8	2884.7	2879.0	2871.0	2864.2	2858.6
37.5°	3155.7	3151.1	3151.1	3131.8	3127.3	3123.9	3117.1	3118.2
40°	3459.5	3464.1	3458.4	3451.6	3448.2	3439.1	3439.1	3447.1
42.5°	3819.0	3822.4	3834.9	3823.5	3836.0	3824.7	3817.9	3823.5
45°	4236.3	4248.7	4273.7	4262.4	4270.3	4251.0	4227.2	4228.3
47.5°	4704.6	4715.9	4726.1	4718.2	4719.3	4687.6	4655.8	4647.9
50°	5191.0	5195.6	5201.2	5189.9	5192.2	5157.0	5120.7	5121.9
52.5°	5671.8	5693.3	5716.0	5685.4	5678.6	5638.9	5587.9	5567.5
55°	6221.7	6252.4	6226.3	6173.0	6119.7	6066.4	5999.5	5988.2
57.5°	6899.8	6847.7	6766.0	6665.1	6591.4	6516.6	6448.5	6420.2
60°	7843.2	7647.1	7499.7	7350.0	7255.9	7164.0	7074.4	7060.8
62.5°	9176.7	8837.7	8544.0	8234.4	7981.6	7784.3	7626.7	7582.4
65°	10848.1	10046.4	9351.3	8702.7	8139.2	7714.0	7446.4	7328.4
67.5°	11567.0	9984.0	8792.3	7871.6	7134.5	6619.7	6330.6	6186.6
70°	10164.3	8279.8	6983.7	6061.9	5390.6	4841.8	4579.8	4425.6
72.5°	6992.8	5267.0	4164.8	3399.4	2863.1	2403.9	2222.5	2208.8
75°	3139.8	2079.6	1433.3	1104.4	929.8	808.5	771.1	742.7
77.5°	878.8	649.7	579.4	542.0	505.7	463.8	447.9	451.3
80°	427.5	403.7	387.8	364.0	331.1	295.9	280.1	286.9
82.5°	283.5	280.1	290.3	273.3	225.6	191.6	161.0	147.4
85°	172.4	174.6	178.0	179.2	151.9	106.6	72.6	81.6
87.5°	68.0	78.2	85.0	88.4	82.8	51.0	40.8	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)