

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: P191821

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191821  
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-03-LED-E1-RW-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20378 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 191  
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

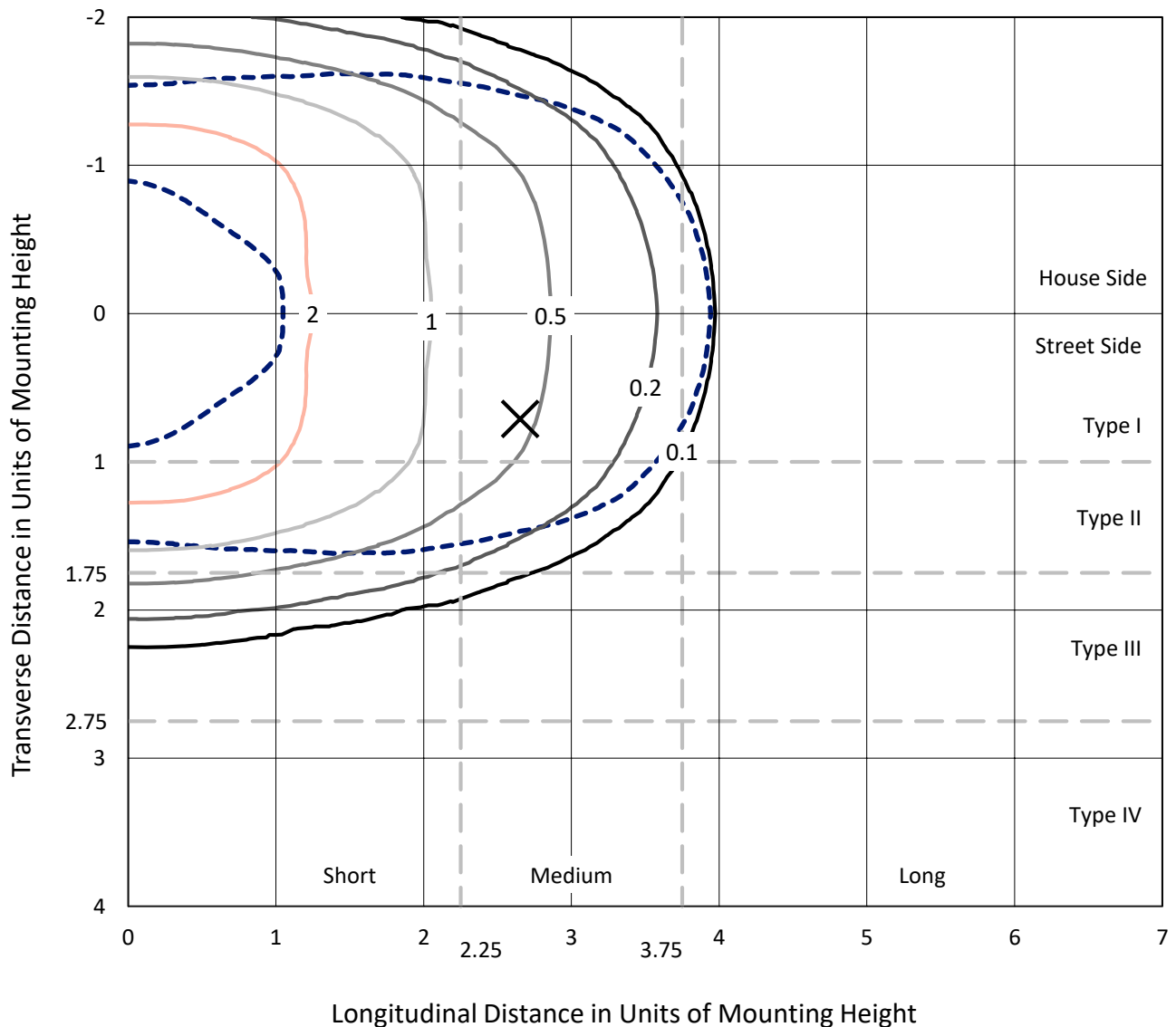


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

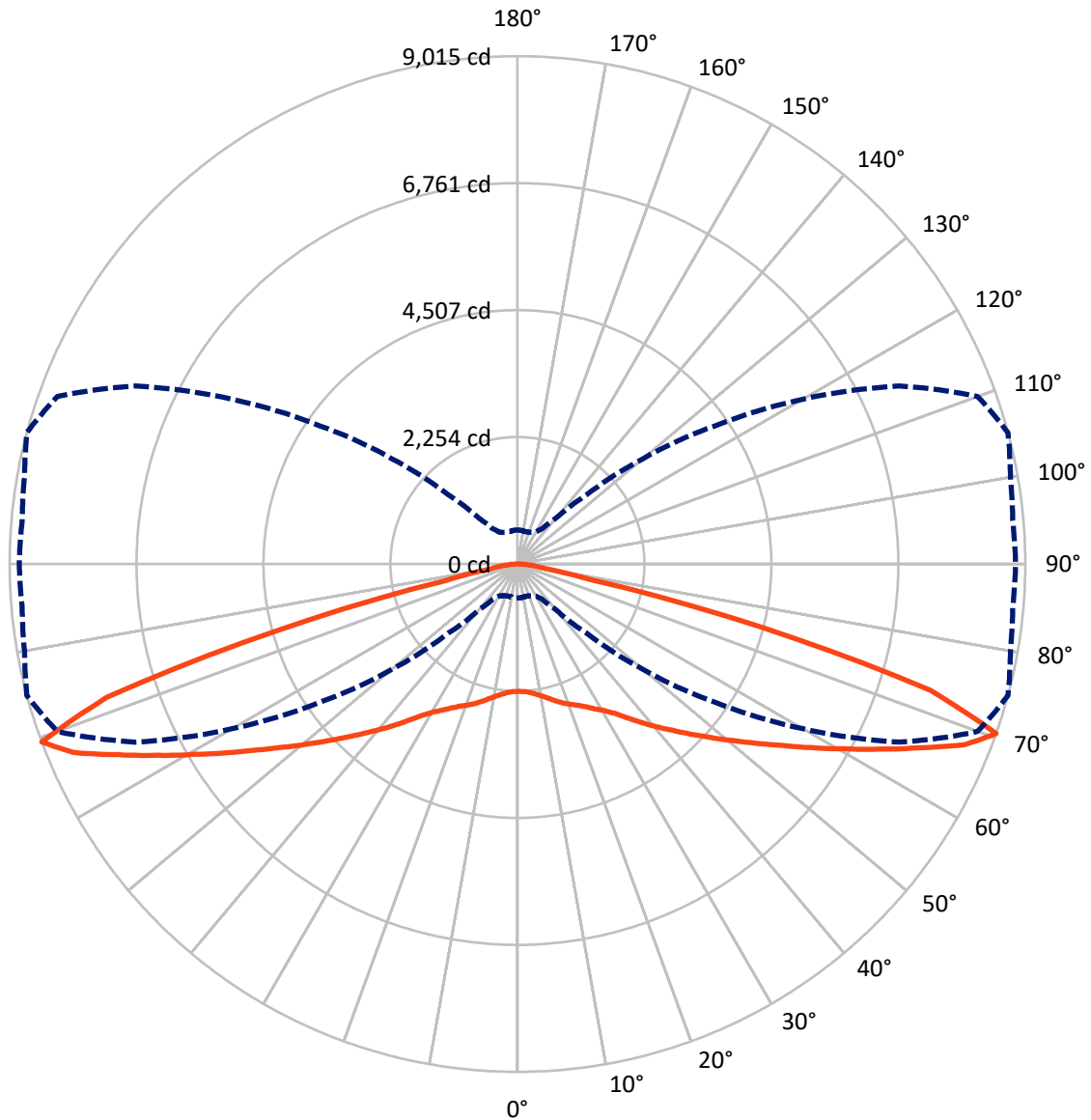


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - Full Cutoff

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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	10189.0	0.0	10189.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10189.0	0.0	10189.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20378.0	0.0	20378.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	1.1
10°-20°	673.6	3.3
20°-30°	1267.8	6.2
30°-40°	2245.1	11.0
40°-50°	3754.5	18.4
50°-60°	5231.8	25.7
60°-70°	4851.7	23.8
70°-80°	1933.5	9.5
80°-90°	203.2	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°	20378.0	100.0
0°-180°	20378.0	100.0



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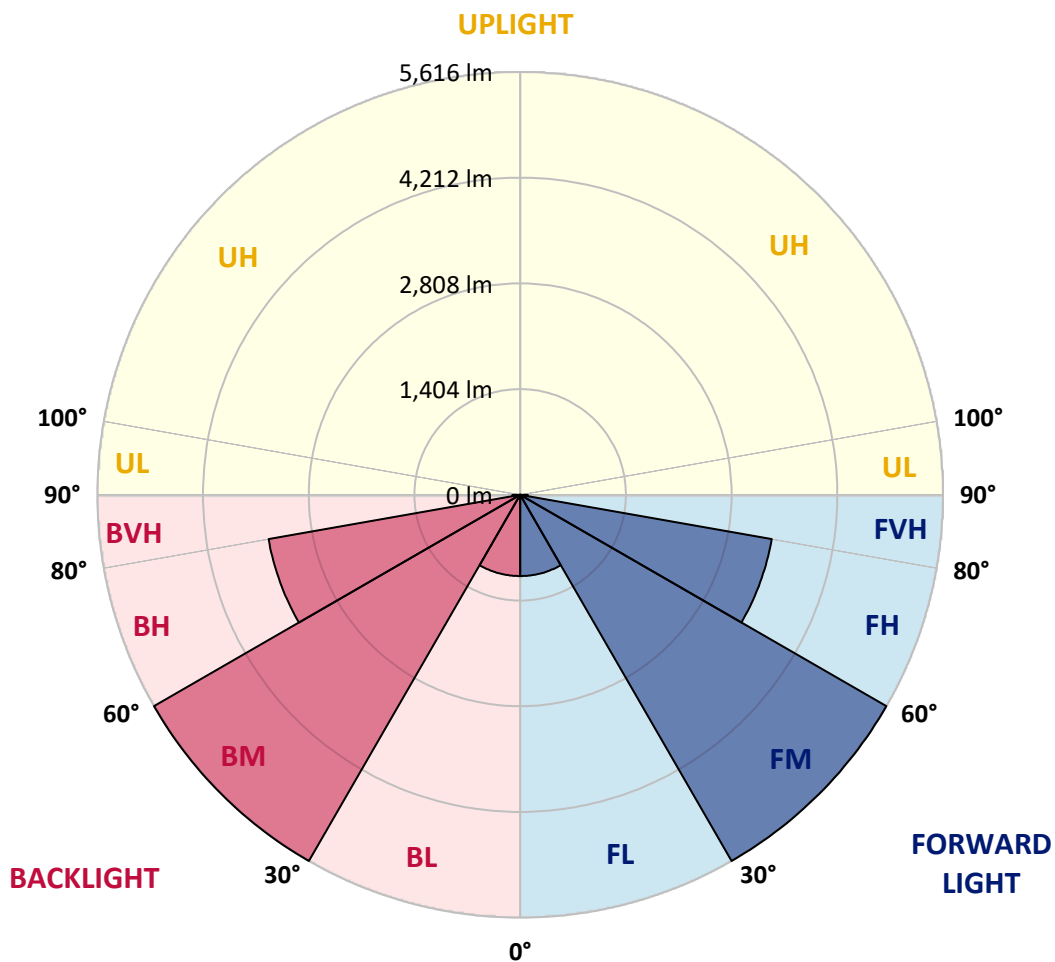
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.1	5.3			
FM	(30°-60°)	5615.7	27.6			
FH	(60°-80°)	3392.6	16.6			G2/5000
FVH	(80°-90°)	101.6	0.5			G2/225
BL	(0°-30°)	1079.1	5.3	B3/2500		
BM	(30°-60°)	5615.7	27.6	B4/8500		
BH	(60°-80°)	3392.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	101.6	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°	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4
2.5°	2256.5	2254.6	2256.5	2255.6	2257.5	2257.5	2259.4	2263.3	2263.3	2266.2	2265.2
5°	2234.4	2233.4	2236.3	2239.2	2242.1	2247.9	2253.7	2262.3	2269.1	2273.9	2278.7
7.5°	2191.1	2191.1	2194.9	2201.6	2208.4	2220.9	2234.4	2251.7	2269.1	2283.5	2296.0
10°	2155.4	2157.3	2162.2	2173.7	2185.3	2204.5	2222.8	2247.9	2272.0	2296.0	2315.3
12.5°	2134.2	2137.1	2145.8	2163.1	2182.4	2208.4	2236.3	2268.1	2295.1	2324.0	2343.2
15°	2141.0	2142.9	2155.4	2176.6	2201.6	2234.4	2272.0	2309.5	2341.3	2372.1	2398.1
17.5°	2178.5	2181.4	2195.9	2219.9	2245.9	2284.5	2324.9	2367.3	2406.8	2441.5	2473.2
20°	2245.9	2248.8	2267.1	2293.1	2324.0	2363.4	2403.9	2448.2	2492.5	2529.1	2564.7
22.5°	2341.3	2346.1	2363.4	2389.5	2424.1	2466.5	2514.7	2561.8	2604.2	2637.9	2669.7
25°	2466.5	2477.1	2493.5	2522.4	2559.0	2597.5	2649.5	2697.6	2738.1	2769.9	2793.0
27.5°	2643.7	2658.2	2670.7	2698.6	2734.2	2770.8	2822.8	2865.2	2903.7	2934.6	2951.9
30°	2878.7	2893.2	2905.7	2932.6	2965.4	3000.1	3049.2	3086.7	3110.8	3134.9	3133.9
32.5°	3163.8	3179.2	3184.0	3212.9	3246.6	3284.2	3328.5	3349.7	3368.9	3371.8	3354.5
35°	3482.6	3490.3	3509.5	3548.1	3586.6	3617.4	3659.8	3670.4	3670.4	3655.9	3617.4
37.5°	3832.2	3837.0	3864.0	3907.3	3946.8	3978.6	4007.5	4028.6	4018.1	3987.2	3922.7
40°	4215.5	4224.2	4262.7	4301.2	4345.5	4375.4	4406.2	4410.0	4399.4	4354.2	4266.5
42.5°	4581.5	4589.2	4627.7	4688.4	4746.2	4787.6	4816.5	4822.2	4788.5	4747.1	4638.3
45°	4896.4	4916.6	4966.7	5038.0	5121.8	5180.5	5220.0	5236.4	5206.5	5152.6	5026.4
47.5°	5145.8	5166.1	5237.3	5322.1	5426.1	5521.5	5586.9	5621.6	5613.9	5573.5	5435.7
50°	5328.8	5348.1	5425.1	5529.2	5650.5	5769.0	5880.7	5963.5	5992.4	5974.1	5847.9
52.5°	5350.0	5381.8	5472.3	5612.0	5769.9	5931.7	6090.6	6231.3	6326.6	6341.0	6247.6
55°	5054.3	5086.1	5211.3	5418.4	5653.4	5917.3	6171.5	6408.5	6596.3	6692.6	6643.5
57.5°	4357.1	4413.9	4545.8	4788.5	5134.3	5529.2	5934.6	6355.5	6737.8	6993.1	7042.2
60°	3339.1	3406.5	3539.4	3797.5	4182.7	4653.7	5195.0	5817.1	6492.3	7066.3	7409.1
62.5°	2141.9	2205.5	2345.1	2569.6	2883.5	3394.0	3974.7	4713.4	5620.7	6526.9	7343.6
65°	1100.8	1135.5	1208.7	1344.5	1589.1	1970.5	2491.5	3228.3	4265.6	5383.7	6564.5
67.5°	697.3	704.0	720.4	739.7	802.3	934.2	1176.9	1636.3	2489.6	3655.9	5038.0
70°	602.9	602.9	595.2	592.3	600.0	618.3	655.9	762.8	1050.7	1735.5	2905.7
72.5°	551.9	546.1	532.6	522.0	520.1	520.1	527.8	544.2	590.4	706.9	1137.4
75°	508.5	492.1	473.8	461.3	456.5	451.7	450.7	453.6	463.3	481.5	543.2
77.5°	455.5	434.4	413.2	400.6	394.9	388.1	382.4	375.6	370.8	376.6	403.5
80°	392.0	367.9	351.5	343.8	338.0	328.4	315.9	304.3	293.7	291.8	308.2
82.5°	315.9	288.0	288.9	291.8	281.2	267.7	254.3	241.7	223.4	213.8	223.4
85°	255.2	240.8	234.0	252.3	236.9	216.7	195.5	173.4	144.5	121.4	131.9
87.5°	99.2	99.2	148.3	228.3	205.1	167.6	143.5	122.3	76.1	58.7	59.7
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°	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4
2.5°	2264.2	2266.2	2265.2	2264.2	2264.2	2263.3	2264.2	2264.2
5°	2281.6	2286.4	2286.4	2288.3	2288.3	2289.3	2290.3	2289.3
7.5°	2307.6	2316.3	2322.0	2328.8	2329.7	2330.7	2332.6	2330.7
10°	2333.6	2350.9	2363.4	2376.0	2381.7	2383.7	2385.6	2385.6
12.5°	2366.3	2390.4	2412.6	2434.7	2445.3	2451.1	2451.1	2454.9
15°	2420.3	2444.3	2470.4	2500.2	2518.5	2528.1	2531.0	2531.0
17.5°	2496.4	2517.5	2539.7	2568.6	2591.7	2604.2	2607.1	2606.1
20°	2585.0	2605.2	2617.7	2636.0	2656.2	2670.7	2674.5	2674.5
22.5°	2686.1	2697.6	2699.6	2705.3	2721.7	2741.0	2749.6	2751.6
25°	2797.8	2800.7	2793.0	2793.0	2803.6	2821.9	2830.6	2831.5
27.5°	2942.3	2927.8	2908.6	2901.8	2908.6	2929.7	2940.3	2944.2
30°	3122.4	3087.7	3043.4	3019.3	3015.5	3043.4	3062.7	3065.5
32.5°	3328.5	3278.4	3219.6	3170.5	3158.0	3175.3	3198.5	3197.5
35°	3573.1	3513.4	3442.1	3379.5	3350.6	3368.0	3400.7	3404.6
37.5°	3855.3	3777.3	3695.4	3616.4	3571.2	3576.0	3610.7	3622.2
40°	4170.2	4069.1	3966.0	3860.1	3795.6	3783.1	3825.4	3832.2
42.5°	4507.3	4377.3	4247.3	4116.3	4033.5	4014.2	4063.3	4060.4
45°	4866.5	4700.9	4548.7	4404.3	4306.0	4277.1	4317.6	4317.6
47.5°	5252.7	5048.6	4867.5	4703.8	4596.9	4555.5	4594.0	4596.9
50°	5662.1	5445.4	5232.5	5050.5	4922.4	4869.4	4919.5	4927.2
52.5°	6069.5	5858.5	5643.8	5435.7	5280.7	5216.1	5273.9	5299.0
55°	6482.6	6275.6	6070.4	5867.2	5683.3	5607.2	5668.8	5700.6
57.5°	6918.9	6727.3	6531.7	6326.6	6149.4	6030.9	6096.4	6138.8
60°	7430.3	7266.6	7063.4	6837.0	6657.9	6537.5	6575.1	6612.6
62.5°	7834.8	7898.4	7726.0	7464.0	7233.8	7079.7	7116.3	7155.8
65°	7639.3	8291.3	8444.5	8179.6	7860.8	7621.0	7605.6	7625.8
67.5°	6385.4	7651.8	8575.4	8827.8	8561.0	8227.8	8166.1	8196.0
70°	4271.3	5848.9	7478.5	8692.0	9014.6	8885.6	8824.9	8843.2
72.5°	2051.4	3406.5	5073.6	6686.8	7669.2	8119.9	8264.4	8334.7
75°	750.3	1352.2	2445.3	3684.8	4448.6	5149.7	5607.2	5794.0
77.5°	452.7	546.1	781.1	1175.9	1332.0	1490.9	1429.2	1460.1
80°	335.2	378.5	428.6	481.5	498.9	498.9	479.6	464.2
82.5°	235.0	262.9	287.0	315.9	323.6	309.2	254.3	202.3
85°	151.2	163.7	174.3	192.6	187.8	179.1	120.4	106.9
87.5°	69.3	79.0	82.8	91.5	87.6	83.8	59.7	50.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)