

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: P193552

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193552  
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-04-LED-E1-RW-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20028 lumens  
Efficiency: N/A  
Efficacy: 89.0 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

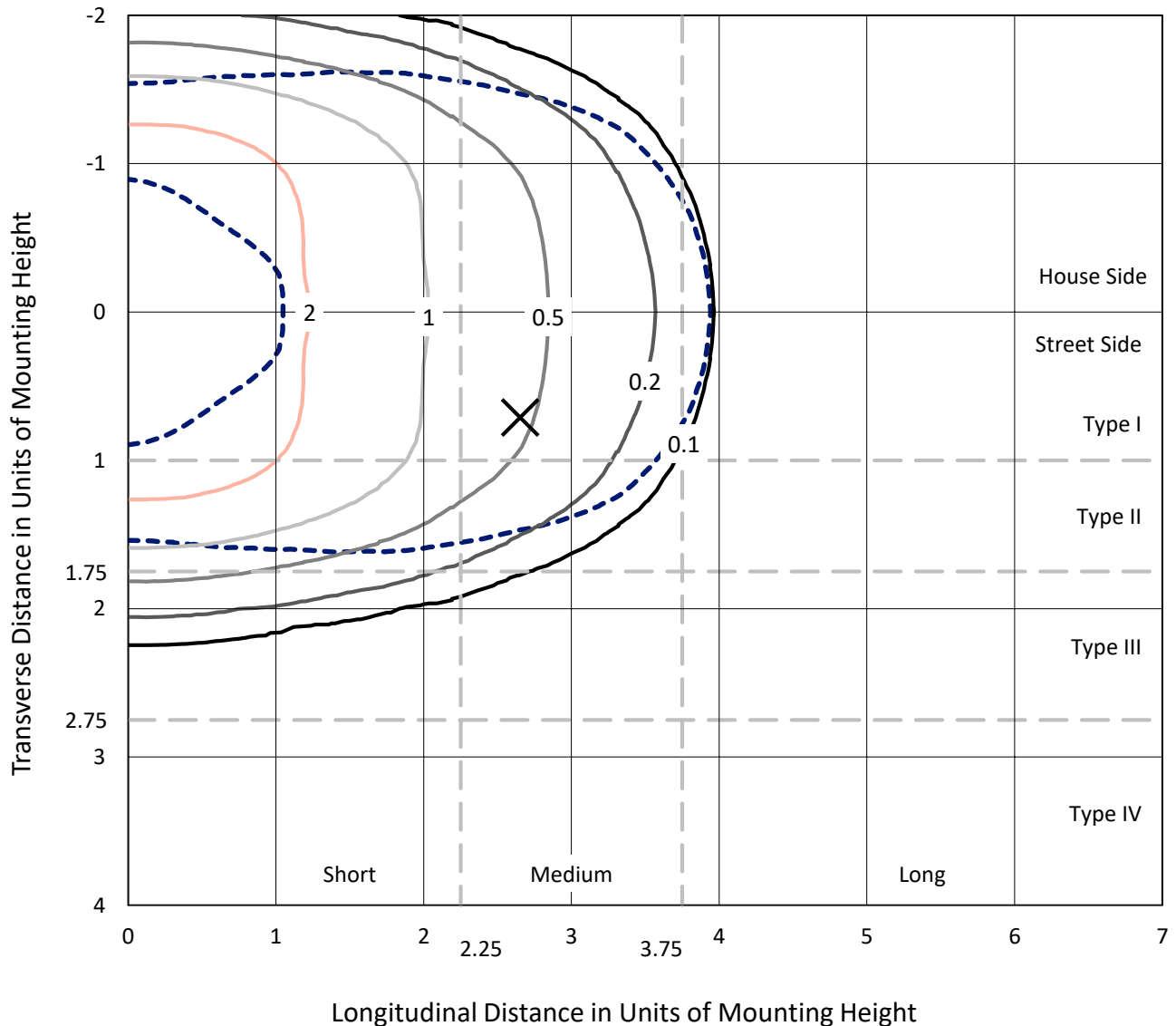
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

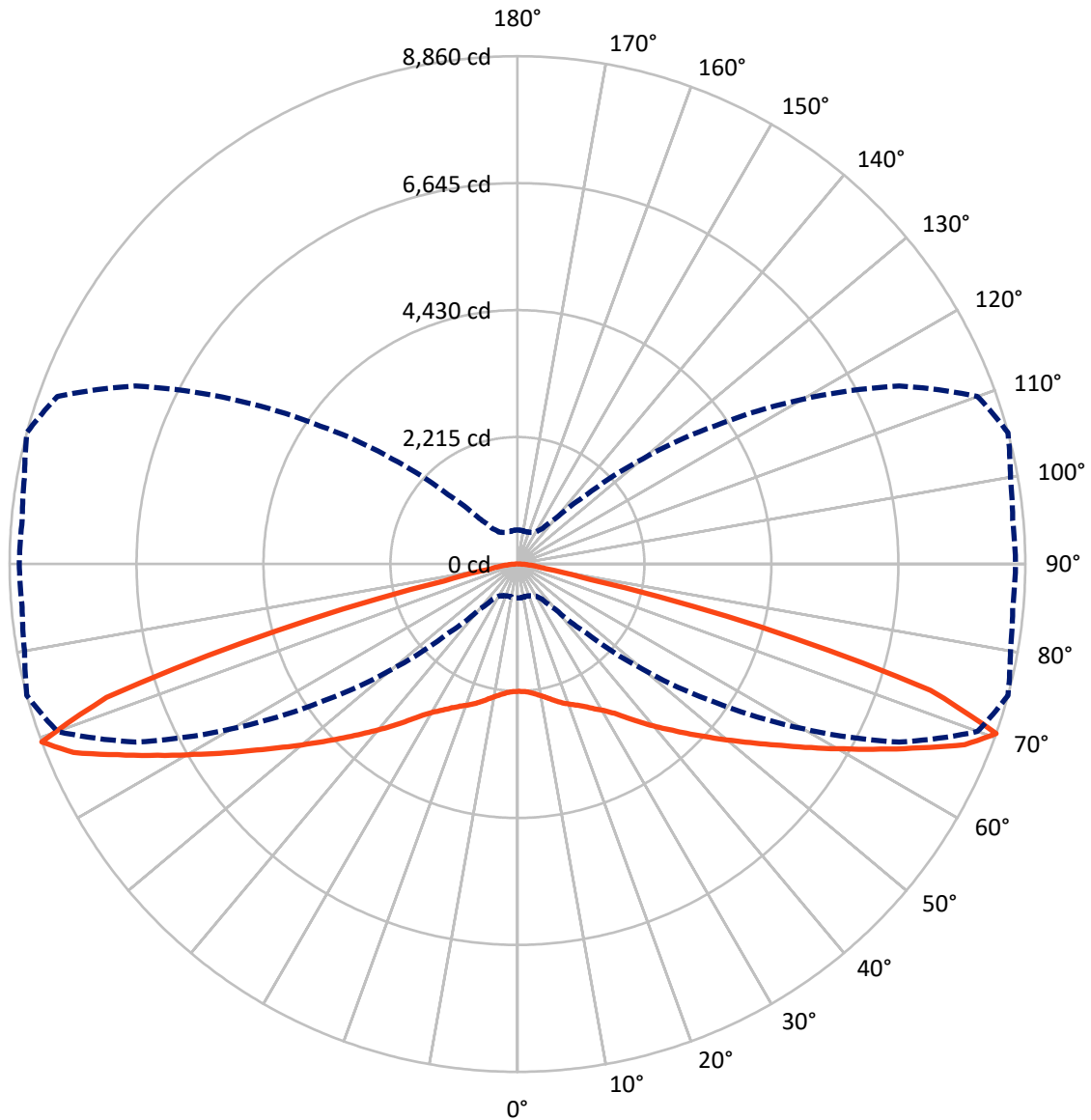
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	10014.0	0.0	10014.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10014.0	0.0	10014.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20028.0	0.0	20028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.1	1.1
10°-20°	662.0	3.3
20°-30°	1246.0	6.2
30°-40°	2206.5	11.0
40°-50°	3690.0	18.4
50°-60°	5142.0	25.7
60°-70°	4768.4	23.8
70°-80°	1900.3	9.5
80°-90°	199.8	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°	20028.0	100.0
0°-180°	20028.0	100.0

**Coefficient of Utilization**



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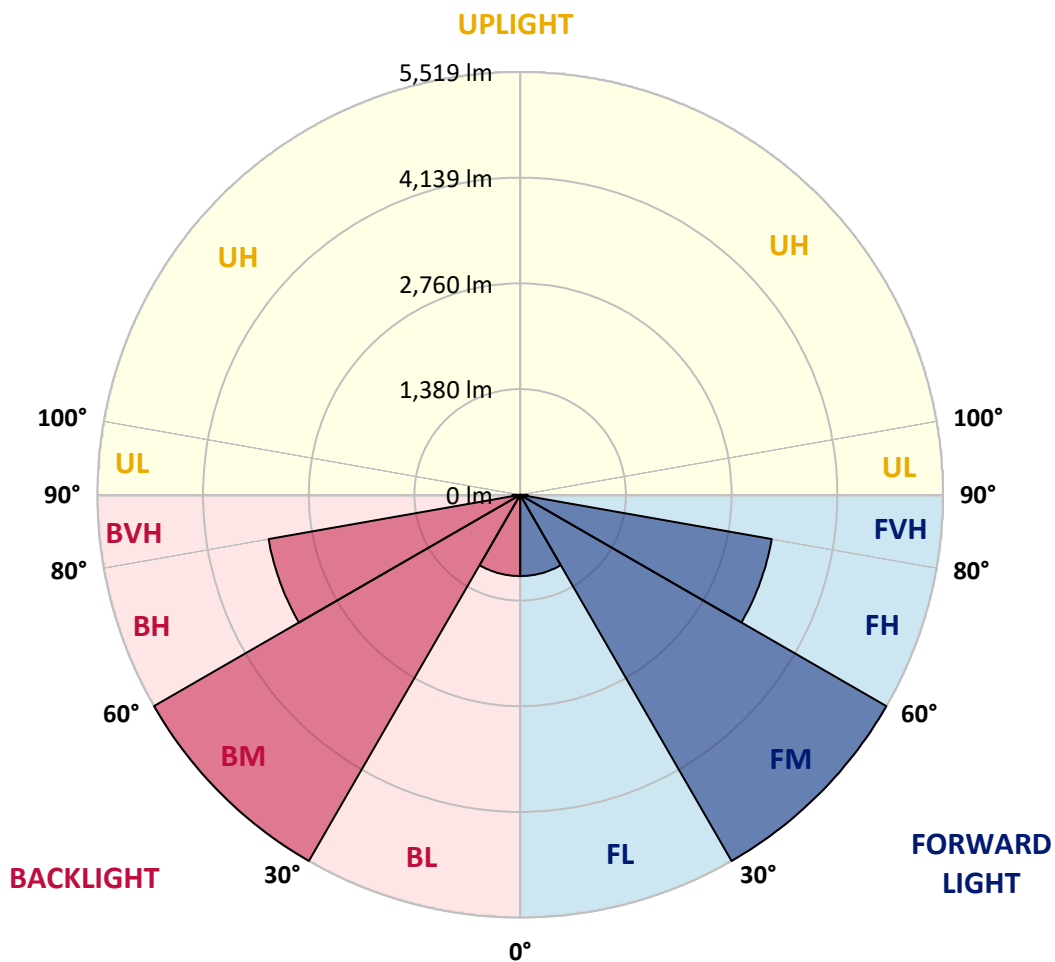
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1060.6	5.3			
FM	(30°-60°)	5519.2	27.6			
FH	(60°-80°)	3334.3	16.6			G2/5000
FVH	(80°-90°)	99.9	0.5			G1/100
BL	(0°-30°)	1060.6	5.3	B3/2500		
BM	(30°-60°)	5519.2	27.6	B4/8500		
BH	(60°-80°)	3334.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	99.9	0.5			G1/100
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°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2217.8	2215.9	2217.8	2216.8	2218.7	2218.7	2220.6	2224.4	2224.4	2227.3	2226.3
5°	2196.0	2195.1	2197.9	2200.7	2203.6	2209.3	2214.9	2223.5	2230.1	2234.8	2239.6
7.5°	2153.4	2153.4	2157.2	2163.8	2170.5	2182.8	2196.0	2213.1	2230.1	2244.3	2256.6
10°	2118.4	2120.3	2125.0	2136.4	2147.7	2166.7	2184.7	2209.3	2232.9	2256.6	2275.5
12.5°	2097.6	2100.4	2108.9	2126.0	2144.9	2170.5	2197.9	2229.1	2255.6	2284.0	2303.0
15°	2104.2	2106.1	2118.4	2139.2	2163.8	2196.0	2232.9	2269.8	2301.1	2331.4	2356.9
17.5°	2141.1	2144.0	2158.2	2181.8	2207.4	2245.2	2285.0	2326.6	2365.4	2399.5	2430.8
20°	2207.4	2210.2	2228.2	2253.8	2284.0	2322.9	2362.6	2406.2	2449.7	2485.7	2520.7
22.5°	2301.1	2305.8	2322.9	2348.4	2382.5	2424.1	2471.5	2517.8	2559.5	2592.6	2623.9
25°	2424.1	2434.5	2450.6	2479.0	2515.0	2552.9	2604.0	2651.3	2691.1	2722.3	2745.0
27.5°	2598.3	2612.5	2624.8	2652.3	2687.3	2723.2	2774.4	2816.0	2853.9	2884.2	2901.2
30°	2829.3	2843.5	2855.8	2882.3	2914.5	2948.5	2996.8	3033.7	3057.4	3081.0	3080.1
32.5°	3109.4	3124.6	3129.3	3157.7	3190.8	3227.8	3271.3	3292.1	3311.1	3313.9	3296.9
35°	3422.8	3430.3	3449.3	3487.1	3525.0	3555.3	3596.9	3607.3	3607.3	3593.1	3555.3
37.5°	3766.4	3771.1	3797.6	3840.2	3879.0	3910.2	3938.6	3959.5	3949.0	3918.8	3855.3
40°	4143.1	4151.6	4189.5	4227.3	4270.9	4300.2	4330.5	4334.3	4323.9	4279.4	4193.3
42.5°	4502.8	4510.3	4548.2	4607.8	4664.6	4705.3	4733.7	4739.4	4706.3	4665.6	4558.6
45°	4812.3	4832.2	4881.4	4951.4	5033.8	5091.5	5130.3	5146.4	5117.1	5064.1	4940.1
47.5°	5057.5	5077.3	5147.4	5230.7	5332.9	5426.6	5491.0	5525.1	5517.5	5477.7	5342.4
50°	5237.3	5256.2	5332.0	5434.2	5553.5	5669.9	5779.7	5861.1	5889.5	5871.5	5747.5
52.5°	5258.1	5289.4	5378.3	5515.6	5670.8	5829.9	5986.0	6124.2	6217.9	6232.1	6140.3
55°	4967.5	4998.8	5121.8	5325.3	5556.3	5815.7	6065.5	6298.4	6483.0	6577.6	6529.4
57.5°	4282.2	4338.1	4467.8	4706.3	5046.1	5434.2	5832.7	6246.3	6622.1	6873.0	6921.2
60°	3281.7	3348.0	3478.6	3732.3	4110.9	4573.8	5105.7	5717.2	6380.7	6944.9	7281.9
62.5°	2105.1	2167.6	2304.9	2525.4	2834.0	3335.7	3906.4	4632.5	5524.1	6414.8	7217.5
65°	1081.9	1116.0	1187.9	1321.4	1561.8	1936.7	2448.7	3172.9	4192.3	5291.3	6451.7
67.5°	685.3	691.9	708.0	727.0	788.5	918.2	1156.7	1608.2	2446.9	3593.1	4951.4
70°	592.5	592.5	585.0	582.1	589.7	607.7	644.6	749.7	1032.7	1705.7	2855.8
72.5°	542.4	536.7	523.4	513.0	511.1	511.1	518.7	534.8	580.2	694.8	1117.9
75°	499.8	483.7	465.7	453.4	448.7	443.9	443.0	445.8	455.3	473.3	533.9
77.5°	447.7	426.9	406.1	393.8	388.1	381.5	375.8	369.2	364.4	370.1	396.6
80°	385.2	361.6	345.5	337.9	332.2	322.8	310.5	299.1	288.7	286.8	302.9
82.5°	310.5	283.0	284.0	286.8	276.4	263.1	249.9	237.6	219.6	210.1	219.6
85°	250.8	236.6	230.0	248.0	232.9	213.0	192.2	170.4	142.0	119.3	129.7
87.5°	97.5	97.5	145.8	224.3	201.6	164.7	141.0	120.2	74.8	57.7	58.7
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°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2225.4	2227.3	2226.3	2225.4	2225.4	2224.4	2225.4	2225.4
5°	2242.4	2247.1	2247.1	2249.0	2249.0	2250.0	2250.9	2250.0
7.5°	2268.0	2276.5	2282.2	2288.8	2289.7	2290.7	2292.6	2290.7
10°	2293.5	2310.5	2322.9	2335.2	2340.8	2342.7	2344.6	2344.6
12.5°	2325.7	2349.4	2371.1	2392.9	2403.3	2409.0	2409.0	2412.8
15°	2378.7	2402.4	2427.9	2457.3	2475.2	2484.7	2487.6	2487.6
17.5°	2453.5	2474.3	2496.1	2524.5	2547.2	2559.5	2562.3	2561.4
20°	2540.6	2560.4	2572.7	2590.7	2610.6	2624.8	2628.6	2628.6
22.5°	2640.0	2651.3	2653.2	2658.9	2675.0	2693.9	2702.4	2704.3
25°	2749.8	2752.6	2745.0	2745.0	2755.4	2773.4	2781.9	2782.9
27.5°	2891.7	2877.5	2858.6	2852.0	2858.6	2879.4	2889.8	2893.6
30°	3068.7	3034.7	2991.1	2967.5	2963.7	2991.1	3010.1	3012.9
32.5°	3271.3	3222.1	3164.3	3116.1	3103.8	3120.8	3143.5	3142.6
35°	3511.7	3453.0	3383.0	3321.5	3293.1	3310.1	3342.3	3346.1
37.5°	3789.1	3712.4	3631.9	3554.3	3509.8	3514.6	3548.6	3560.0
40°	4098.6	3999.2	3897.9	3793.8	3730.4	3718.1	3759.7	3766.4
42.5°	4429.9	4302.1	4174.3	4045.6	3964.2	3945.3	3993.5	3990.7
45°	4783.0	4620.2	4470.6	4328.6	4232.1	4203.7	4243.4	4243.4
47.5°	5162.5	4961.9	4783.9	4623.0	4517.9	4477.2	4515.1	4517.9
50°	5564.8	5351.8	5142.7	4963.8	4837.9	4785.8	4835.0	4842.6
52.5°	5965.2	5757.9	5546.8	5342.4	5190.0	5126.6	5183.4	5208.0
55°	6371.3	6167.8	5966.2	5766.4	5585.6	5510.9	5571.4	5602.7
57.5°	6800.1	6611.7	6419.6	6217.9	6043.8	5927.3	5991.7	6033.4
60°	7302.7	7141.8	6942.1	6719.6	6543.6	6425.2	6462.2	6499.1
62.5°	7700.3	7762.7	7593.3	7335.8	7109.6	6958.1	6994.1	7032.9
65°	7508.1	8148.9	8299.4	8039.1	7725.8	7490.1	7475.0	7494.8
67.5°	6275.7	7520.4	8428.2	8676.2	8414.0	8086.4	8025.9	8055.2
70°	4198.0	5748.4	7350.0	8542.7	8859.8	8732.9	8673.3	8691.3
72.5°	2016.2	3348.0	4986.5	6572.0	7537.4	7980.4	8122.4	8191.5
75°	737.4	1329.0	2403.3	3621.5	4372.2	5061.2	5510.9	5694.5
77.5°	444.9	536.7	767.7	1155.7	1309.1	1465.3	1404.7	1435.0
80°	329.4	372.0	421.2	473.3	490.3	490.3	471.4	456.2
82.5°	231.0	258.4	282.1	310.5	318.0	303.8	249.9	198.8
85°	148.6	160.9	171.3	189.3	184.6	176.1	118.3	105.1
87.5°	68.2	77.6	81.4	89.9	86.1	82.4	58.7	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)