

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: P300685

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300685  
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: GLNA-AF-06-LED-E1-RW-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20758.2 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

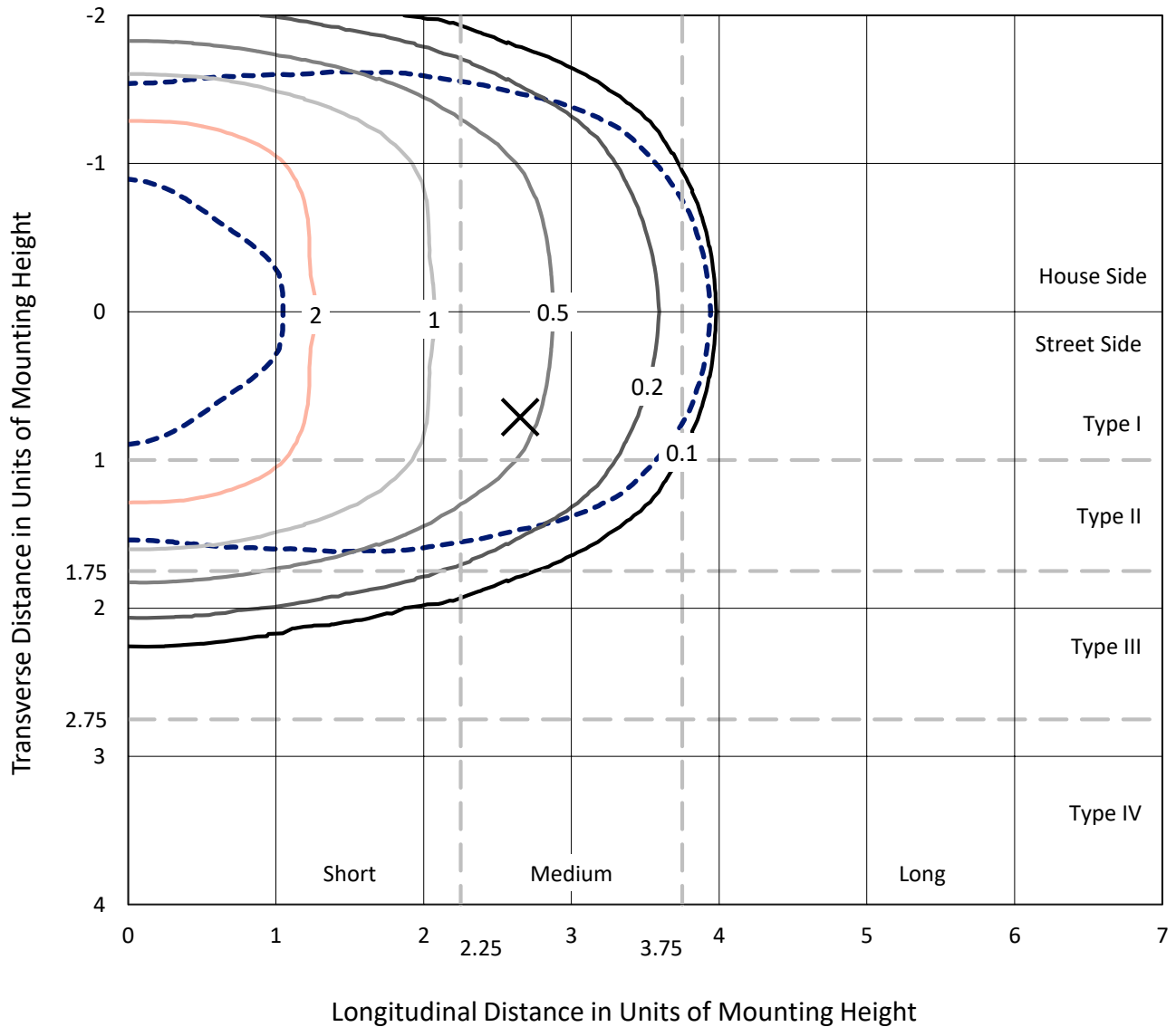
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P300685  
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### Iso-Footcandle Lines of Horizontal Illumination

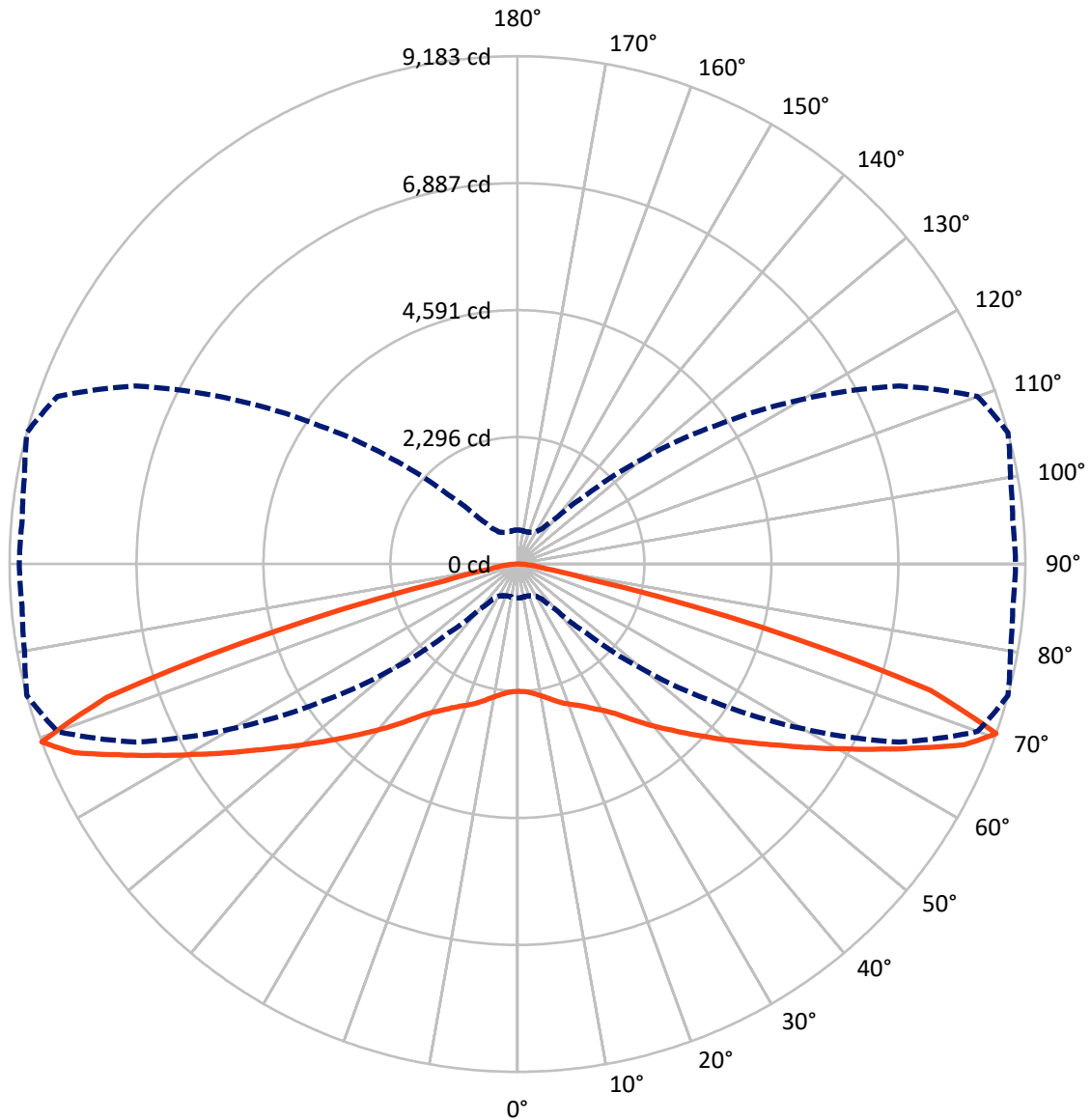
✕ Max cd  
 - - - 1/2 Max cd



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	10379.1	0.0	10379.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10379.1	0.0	10379.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20758.2	0.0	20758.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.8	1.1
10°-20°	686.2	3.3
20°-30°	1291.5	6.2
30°-40°	2286.9	11.0
40°-50°	3824.5	18.4
50°-60°	5329.5	25.7
60°-70°	4942.2	23.8
70°-80°	1969.6	9.5
80°-90°	207.0	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°	20758.2	100.0
0°-180°	20758.2	100.0



REPORT NUMBER: P300685

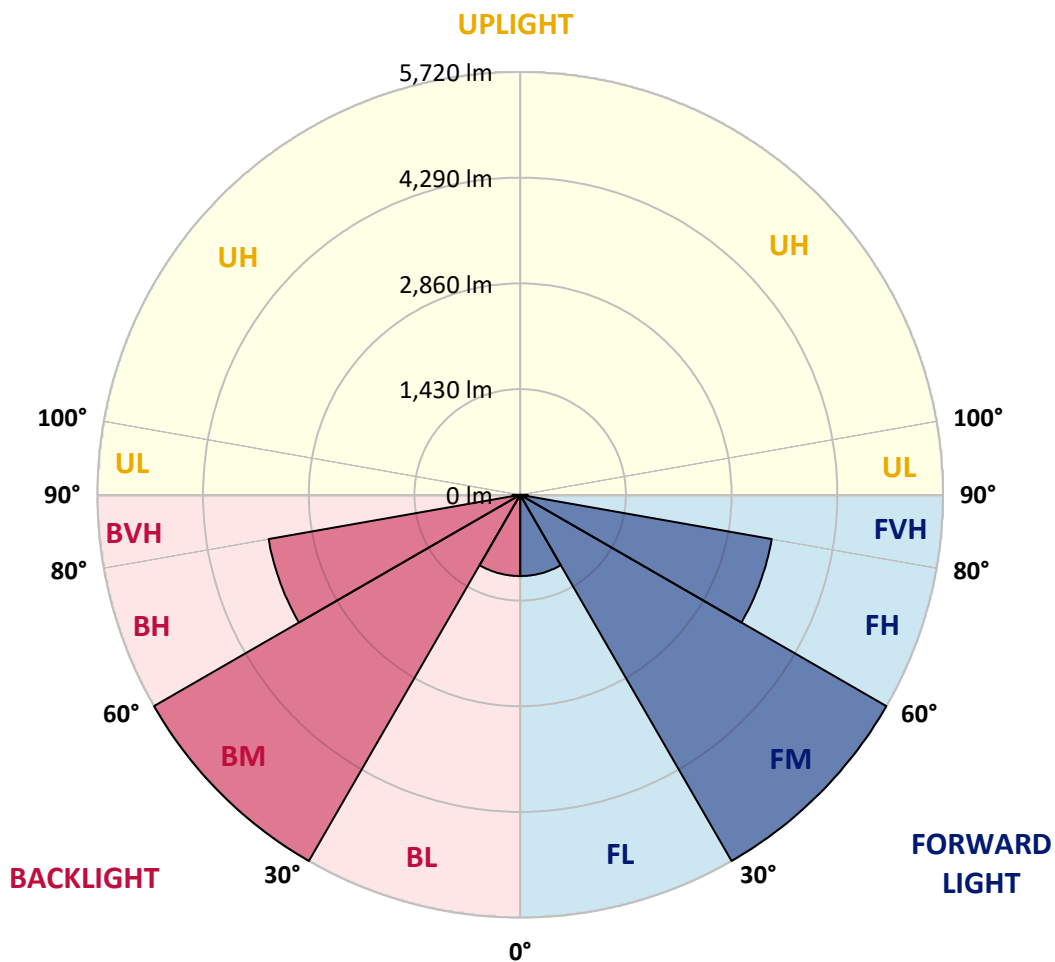
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.2	5.3			
FM	(30°-60°)	5720.4	27.6			
FH	(60°-80°)	3455.9	16.6			G2/5000
FVH	(80°-90°)	103.5	0.5			G2/225
BL	(0°-30°)	1099.2	5.3	B3/2500		
BM	(30°-60°)	5720.4	27.6	B4/8500		
BH	(60°-80°)	3455.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	103.5	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





REPORT NUMBER: P300685

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6
2.5°	2298.6	2296.7	2298.6	2297.7	2299.6	2299.6	2301.6	2305.5	2305.5	2308.5	2307.5
5°	2276.1	2275.1	2278.0	2281.0	2283.9	2289.8	2295.7	2304.5	2311.4	2316.3	2321.2
7.5°	2231.9	2231.9	2235.9	2242.7	2249.6	2262.3	2276.1	2293.7	2311.4	2326.1	2338.9
10°	2195.6	2197.6	2202.5	2214.3	2226.0	2245.7	2264.3	2289.8	2314.3	2338.9	2358.5
12.5°	2174.1	2177.0	2185.8	2203.5	2223.1	2249.6	2278.0	2310.4	2337.9	2367.3	2386.9
15°	2180.9	2182.9	2195.6	2217.2	2242.7	2276.1	2314.3	2352.6	2385.0	2416.4	2442.9
17.5°	2219.2	2222.1	2236.8	2261.4	2287.9	2327.1	2368.3	2411.5	2451.7	2487.0	2519.4
20°	2287.9	2290.8	2309.4	2335.9	2367.3	2407.5	2448.8	2493.9	2539.0	2576.3	2612.6
22.5°	2385.0	2389.9	2407.5	2434.0	2469.4	2512.5	2561.6	2609.6	2652.8	2687.2	2719.5
25°	2512.5	2523.3	2540.0	2569.4	2606.7	2645.9	2698.9	2748.0	2789.2	2821.6	2845.1
27.5°	2693.0	2707.8	2720.5	2749.0	2785.3	2822.5	2875.5	2918.7	2957.9	2989.3	3007.0
30°	2932.4	2947.1	2959.9	2987.4	3020.7	3056.0	3106.1	3144.3	3168.9	3193.4	3192.4
32.5°	3222.8	3238.5	3243.4	3272.8	3307.2	3345.4	3390.6	3412.2	3431.8	3434.7	3417.1
35°	3547.5	3555.4	3575.0	3614.3	3653.5	3684.9	3728.1	3738.9	3738.9	3724.1	3684.9
37.5°	3903.7	3908.6	3936.1	3980.2	4020.4	4052.8	4082.2	4103.8	4093.0	4061.6	3995.9
40°	4294.1	4303.0	4342.2	4381.5	4426.6	4457.0	4488.4	4492.3	4481.5	4435.4	4346.1
42.5°	4666.9	4674.8	4714.0	4775.8	4834.7	4876.9	4906.3	4912.2	4877.9	4835.7	4724.8
45°	4987.8	5008.4	5059.4	5132.0	5217.3	5277.2	5317.4	5334.1	5303.7	5248.7	5120.2
47.5°	5241.9	5262.5	5335.1	5421.4	5527.3	5624.5	5691.2	5726.5	5718.7	5677.5	5537.2
50°	5428.3	5447.9	5526.4	5632.3	5755.9	5876.6	5990.4	6074.8	6104.2	6085.6	5957.1
52.5°	5449.8	5482.2	5574.4	5716.7	5877.6	6042.4	6204.3	6347.5	6444.6	6459.4	6364.2
55°	5148.7	5181.0	5308.6	5519.5	5758.9	6027.7	6286.7	6528.0	6719.3	6817.5	6767.4
57.5°	4438.4	4496.2	4630.6	4877.9	5230.1	5632.3	6045.4	6474.1	6863.6	7123.5	7173.6
60°	3401.4	3470.0	3605.4	3868.4	4260.8	4740.5	5291.9	5925.7	6613.4	7198.1	7547.4
62.5°	2181.9	2246.6	2388.9	2617.5	2937.3	3457.3	4048.9	4801.4	5725.5	6648.7	7480.7
65°	1121.4	1156.7	1231.2	1369.6	1618.8	2007.3	2538.0	3288.5	4345.2	5484.2	6687.0
67.5°	710.3	717.2	733.8	753.5	817.2	951.6	1198.9	1666.8	2536.1	3724.1	5132.0
70°	614.1	614.1	606.3	603.4	611.2	629.8	668.1	777.0	1070.3	1767.9	2959.9
72.5°	562.2	556.3	542.5	531.7	529.8	529.8	537.6	554.3	601.4	720.1	1158.6
75°	518.0	501.3	482.7	469.9	465.0	460.1	459.1	462.1	471.9	490.5	553.3
77.5°	464.0	442.5	420.9	408.1	402.2	395.4	389.5	382.6	377.7	383.6	411.1
80°	399.3	374.8	358.1	350.2	344.4	334.5	321.8	310.0	299.2	297.3	313.9
82.5°	321.8	293.3	294.3	297.3	286.5	272.7	259.0	246.2	227.6	217.8	227.6
85°	260.0	245.3	238.4	257.0	241.3	220.7	199.2	176.6	147.2	123.6	134.4
87.5°	101.1	101.1	151.1	232.5	209.0	170.7	146.2	124.6	77.5	59.8	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300685

CATALOG NUMBER: GLNA-AF-06-LED-E1-RW-7027-600

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6	2302.6
2.5°	2306.5	2308.5	2307.5	2306.5	2306.5	2305.5	2306.5	2306.5
5°	2324.2	2329.1	2329.1	2331.0	2331.0	2332.0	2333.0	2332.0
7.5°	2350.6	2359.5	2365.4	2372.2	2373.2	2374.2	2376.2	2374.2
10°	2377.1	2394.8	2407.5	2420.3	2426.2	2428.1	2430.1	2430.1
12.5°	2410.5	2435.0	2457.6	2480.1	2490.9	2496.8	2496.8	2500.7
15°	2465.4	2490.0	2516.4	2546.9	2565.5	2575.3	2578.3	2578.3
17.5°	2542.9	2564.5	2587.1	2616.5	2640.1	2652.8	2655.8	2654.8
20°	2633.2	2653.8	2666.5	2685.2	2705.8	2720.5	2724.4	2724.4
22.5°	2736.2	2748.0	2749.9	2755.8	2772.5	2792.1	2801.0	2802.9
25°	2850.0	2853.0	2845.1	2845.1	2855.9	2874.5	2883.4	2884.3
27.5°	2997.2	2982.5	2962.8	2956.0	2962.8	2984.4	2995.2	2999.1
30°	3180.6	3145.3	3100.2	3075.7	3071.7	3100.2	3119.8	3122.7
32.5°	3390.6	3339.6	3279.7	3229.7	3216.9	3234.6	3258.1	3257.2
35°	3639.8	3578.9	3506.3	3442.6	3413.1	3430.8	3464.2	3468.1
37.5°	3927.2	3847.8	3764.4	3683.9	3637.8	3642.7	3678.0	3689.8
40°	4248.0	4145.0	4040.0	3932.1	3866.4	3853.6	3896.8	3903.7
42.5°	4591.4	4459.0	4326.5	4193.1	4108.7	4089.1	4139.1	4136.2
45°	4957.3	4788.6	4633.6	4486.4	4386.4	4356.9	4398.1	4398.1
47.5°	5350.8	5142.8	4958.3	4791.5	4682.6	4640.5	4679.7	4682.6
50°	5767.7	5547.0	5330.2	5144.7	5014.2	4960.3	5011.3	5019.2
52.5°	6182.7	5967.8	5749.1	5537.2	5379.2	5313.5	5372.3	5397.8
55°	6603.6	6392.7	6183.7	5976.7	5789.3	5711.8	5774.6	5807.0
57.5°	7048.0	6852.8	6653.6	6444.6	6264.1	6143.5	6210.2	6253.3
60°	7569.0	7402.2	7195.2	6964.6	6782.1	6659.5	6697.8	6736.0
62.5°	7981.0	8045.8	7870.1	7603.3	7368.8	7211.8	7249.1	7289.3
65°	7781.8	8446.0	8602.0	8332.2	8007.5	7763.2	7747.5	7768.1
67.5°	6504.5	7794.6	8735.4	8992.5	8720.7	8381.3	8318.5	8348.9
70°	4351.0	5958.0	7618.0	8854.2	9182.8	9051.4	8989.5	9008.2
72.5°	2089.7	3470.0	5168.3	6811.6	7812.3	8271.4	8418.6	8490.2
75°	764.3	1377.4	2490.9	3753.6	4531.6	5245.8	5711.8	5902.1
77.5°	461.1	556.3	795.6	1197.9	1356.8	1518.7	1455.9	1487.3
80°	341.4	385.6	436.6	490.5	508.2	508.2	488.6	472.9
82.5°	239.4	267.8	292.4	321.8	329.6	314.9	259.0	206.0
85°	154.0	166.8	177.6	196.2	191.3	182.5	122.6	108.9
87.5°	70.6	80.4	84.4	93.2	89.3	85.4	60.8	51.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)