

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: P300620

Luminaire Tested: **GLNA-AF-05-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300620  
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-05-LED-E1-RW-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular  
Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

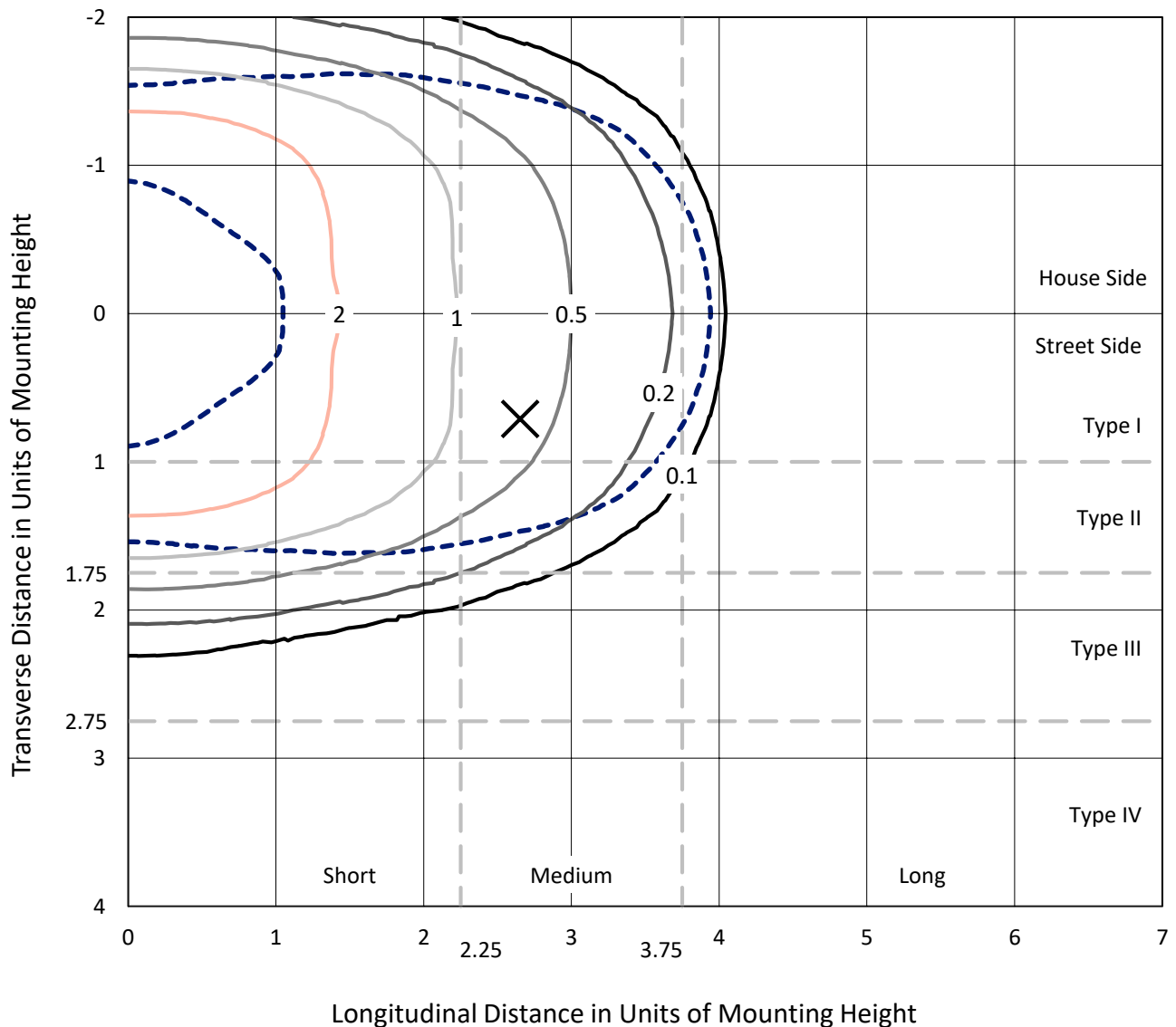
Lumens per Lamp: N/A  
Luminaire Lumens: 23683.4 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (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

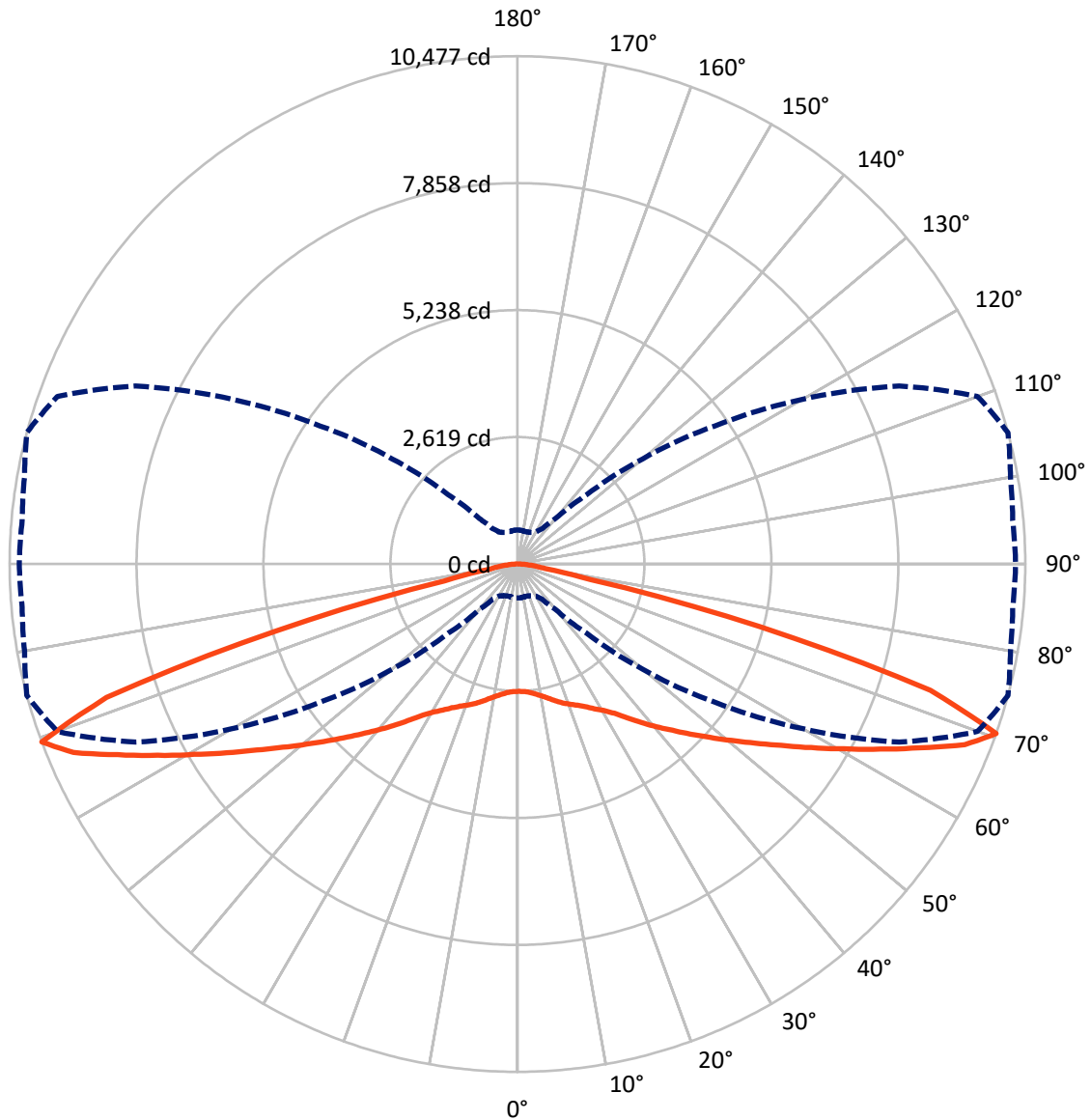
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	11841.7	0.0	11841.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11841.7	0.0	11841.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23683.4	0.0	23683.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.0	1.1
10°-20°	782.9	3.3
20°-30°	1473.5	6.2
30°-40°	2609.2	11.0
40°-50°	4363.4	18.4
50°-60°	6080.4	25.7
60°-70°	5638.6	23.8
70°-80°	2247.2	9.5
80°-90°	236.2	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°	23683.4	100.0
0°-180°	23683.4	100.0



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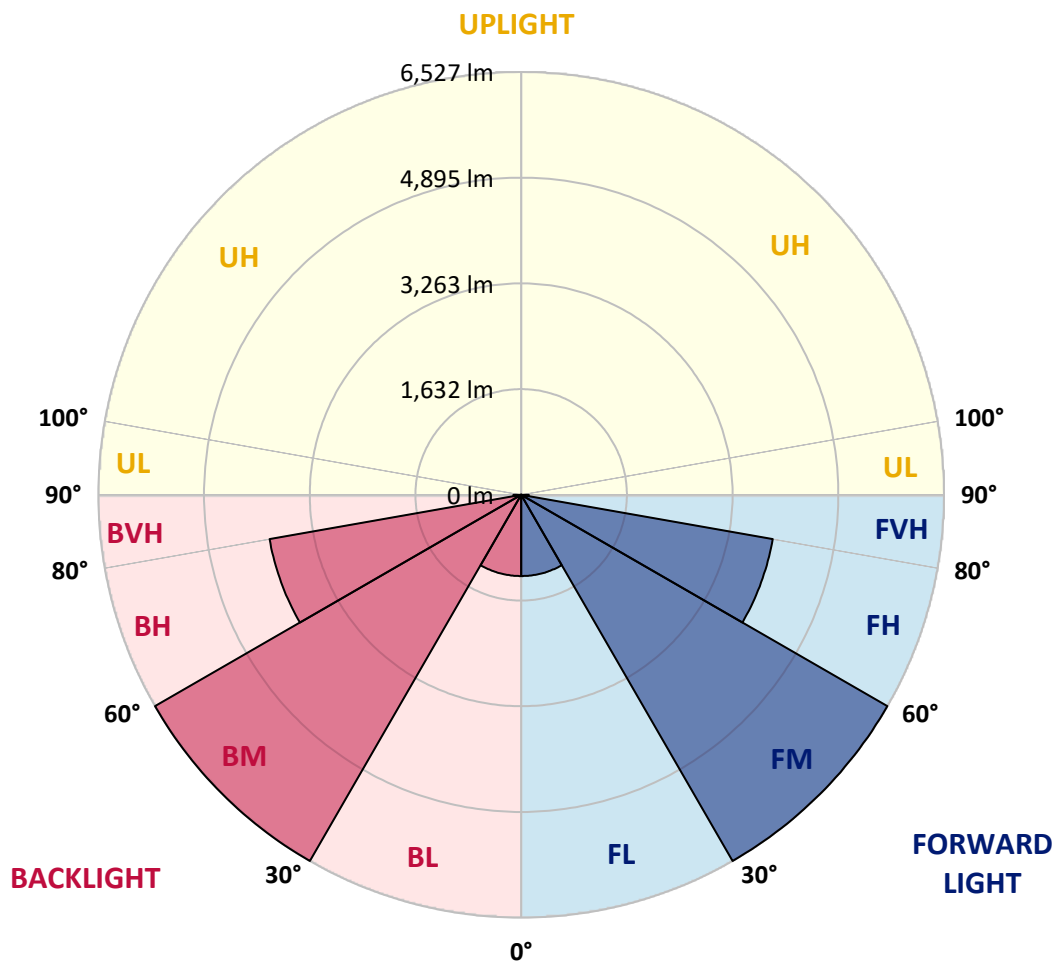
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.1	5.3			
FM	(30°-60°)	6526.5	27.6			
FH	(60°-80°)	3942.9	16.6			G2/5000
FVH	(80°-90°)	118.1	0.5			G2/225
BL	(0°-30°)	1254.1	5.3	B3/2500		
BM	(30°-60°)	6526.5	27.6	B4/8500		
BH	(60°-80°)	3942.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	118.1	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°	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0
2.5°	2622.6	2620.3	2622.6	2621.4	2623.7	2623.7	2625.9	2630.4	2630.4	2633.8	2632.6
5°	2596.8	2595.7	2599.1	2602.4	2605.8	2612.5	2619.2	2629.3	2637.1	2642.7	2648.3
7.5°	2546.4	2546.4	2550.9	2558.8	2566.6	2581.1	2596.8	2617.0	2637.1	2653.9	2668.5
10°	2505.0	2507.3	2512.9	2526.3	2539.7	2562.1	2583.4	2612.5	2640.5	2668.5	2690.8
12.5°	2480.4	2483.8	2493.8	2514.0	2536.4	2566.6	2599.1	2636.0	2667.3	2700.9	2723.3
15°	2488.2	2490.5	2505.0	2529.7	2558.8	2596.8	2640.5	2684.1	2721.1	2756.9	2787.1
17.5°	2531.9	2535.3	2552.0	2580.0	2610.2	2655.0	2702.0	2751.3	2797.2	2837.5	2874.4
20°	2610.2	2613.6	2634.9	2665.1	2700.9	2746.8	2793.8	2845.3	2896.8	2939.3	2980.7
22.5°	2721.1	2726.7	2746.8	2777.0	2817.3	2866.6	2922.5	2977.4	3026.6	3065.8	3102.7
25°	2866.6	2878.9	2897.9	2931.5	2974.0	3018.8	3079.2	3135.2	3182.2	3219.2	3246.0
27.5°	3072.5	3089.3	3103.9	3136.3	3177.7	3220.3	3280.7	3330.0	3374.7	3410.6	3430.7
30°	3345.6	3362.4	3377.0	3408.3	3446.4	3486.7	3543.8	3587.4	3615.4	3643.4	3642.3
32.5°	3677.0	3694.9	3700.5	3734.0	3773.2	3816.9	3868.4	3893.0	3915.4	3918.7	3898.6
35°	4047.5	4056.4	4078.8	4123.6	4168.3	4204.2	4253.4	4265.7	4265.7	4248.9	4204.2
37.5°	4453.8	4459.4	4490.7	4541.1	4587.0	4623.9	4657.5	4682.1	4669.8	4634.0	4559.0
40°	4899.3	4909.3	4954.1	4998.9	5050.4	5085.1	5120.9	5125.4	5113.0	5060.4	4958.6
42.5°	5324.6	5333.5	5378.3	5448.8	5516.0	5564.1	5597.7	5604.4	5565.2	5517.1	5390.6
45°	5690.6	5714.1	5772.3	5855.1	5952.5	6020.8	6066.7	6085.7	6051.0	5988.3	5841.7
47.5°	5980.5	6004.0	6086.8	6185.3	6306.2	6417.0	6493.2	6533.5	6524.5	6477.5	6317.4
50°	6193.2	6215.6	6305.1	6426.0	6567.0	6704.7	6834.5	6930.8	6964.4	6943.1	6796.5
52.5°	6217.8	6254.7	6360.0	6522.3	6705.8	6893.9	7078.6	7242.0	7352.8	7369.6	7261.0
55°	5874.2	5911.1	6056.6	6297.3	6570.4	6877.1	7172.6	7447.9	7666.2	7778.1	7721.0
57.5°	5063.8	5129.8	5283.2	5565.2	5967.1	6426.0	6897.2	7386.4	7830.7	8127.4	8184.4
60°	3880.7	3959.0	4113.5	4413.5	4861.2	5408.5	6037.6	6760.7	7545.3	8212.4	8610.9
62.5°	2489.4	2563.2	2725.5	2986.3	3351.2	3944.5	4619.4	5477.9	6532.3	7585.6	8534.8
65°	1279.4	1319.7	1404.7	1562.6	1846.9	2290.1	2895.7	3752.0	4957.5	6257.0	7629.3
67.5°	810.4	818.2	837.2	859.6	932.4	1085.7	1367.8	1901.7	2893.4	4248.9	5855.1
70°	700.7	700.7	691.7	688.4	697.3	718.6	762.3	886.5	1221.2	2017.0	3377.0
72.5°	641.4	634.7	619.0	606.7	604.4	604.4	613.4	632.4	686.1	821.6	1321.9
75°	591.0	572.0	550.7	536.2	530.6	525.0	523.8	527.2	538.4	559.7	631.3
77.5°	529.4	504.8	480.2	465.6	458.9	451.1	444.4	436.5	430.9	437.7	469.0
80°	455.6	427.6	408.6	399.6	392.9	381.7	367.1	353.7	341.4	339.2	358.2
82.5°	367.1	334.7	335.8	339.2	326.8	311.2	295.5	280.9	259.7	248.5	259.7
85°	296.6	279.8	272.0	293.3	275.4	251.8	227.2	201.5	167.9	141.0	153.3
87.5°	115.3	115.3	172.4	265.3	238.4	194.8	166.8	142.2	88.4	68.3	69.4
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°	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0	2627.0
2.5°	2631.5	2633.8	2632.6	2631.5	2631.5	2630.4	2631.5	2631.5
5°	2651.7	2657.3	2657.3	2659.5	2659.5	2660.6	2661.7	2660.6
7.5°	2681.9	2692.0	2698.7	2706.5	2707.6	2708.7	2711.0	2708.7
10°	2712.1	2732.3	2746.8	2761.4	2768.1	2770.3	2772.5	2772.5
12.5°	2750.2	2778.1	2803.9	2829.6	2841.9	2848.7	2848.7	2853.1
15°	2812.8	2840.8	2871.0	2905.7	2927.0	2938.2	2941.6	2941.6
17.5°	2901.3	2925.9	2951.6	2985.2	3012.1	3026.6	3030.0	3028.9
20°	3004.2	3027.8	3042.3	3063.6	3087.1	3103.9	3108.3	3108.3
22.5°	3121.8	3135.2	3137.4	3144.2	3163.2	3185.6	3195.6	3197.9
25°	3251.6	3255.0	3246.0	3246.0	3258.3	3279.6	3289.7	3290.8
27.5°	3419.5	3402.7	3380.3	3372.5	3380.3	3405.0	3417.3	3421.8
30°	3628.8	3588.5	3537.0	3509.1	3504.6	3537.0	3559.4	3562.8
32.5°	3868.4	3810.2	3741.9	3684.8	3670.2	3690.4	3717.3	3716.1
35°	4152.7	4083.3	4000.4	3927.7	3894.1	3914.3	3952.3	3956.8
37.5°	4480.6	4390.0	4294.8	4203.0	4150.4	4156.0	4196.3	4209.8
40°	4846.6	4729.1	4609.3	4486.2	4411.2	4396.7	4445.9	4453.8
42.5°	5238.4	5087.3	4936.2	4784.0	4687.7	4665.3	4722.4	4719.0
45°	5655.9	5463.4	5286.5	5118.6	5004.5	4970.9	5017.9	5017.9
47.5°	6104.8	5867.5	5657.0	5466.7	5342.5	5294.4	5339.1	5342.5
50°	6580.5	6328.6	6081.2	5869.7	5720.8	5659.3	5717.5	5726.4
52.5°	7053.9	6808.8	6559.2	6317.4	6137.2	6062.2	6129.4	6158.5
55°	7534.1	7293.5	7055.1	6818.9	6605.1	6516.7	6588.3	6625.2
57.5°	8041.2	7818.4	7591.2	7352.8	7146.8	7009.2	7085.3	7134.5
60°	8635.5	8445.2	8209.1	7946.0	7737.8	7597.9	7641.6	7685.2
62.5°	9105.6	9179.5	8979.2	8674.7	8407.2	8228.1	8270.6	8316.5
65°	8878.4	9636.2	9814.2	9506.4	9135.9	8857.2	8839.2	8862.8
67.5°	7421.1	8893.0	9966.4	10259.7	9949.6	9562.3	9490.7	9525.4
70°	4964.2	6797.6	8691.5	10101.8	10476.8	10326.8	10256.3	10277.6
72.5°	2384.1	3959.0	5896.6	7771.4	8913.1	9437.0	9604.9	9686.6
75°	871.9	1571.5	2841.9	4282.5	5170.1	5985.0	6516.7	6733.8
77.5°	526.1	634.7	907.8	1366.7	1548.0	1732.7	1661.1	1696.9
80°	389.5	439.9	498.1	559.7	579.8	579.8	557.4	539.5
82.5°	273.1	305.6	333.6	367.1	376.1	359.3	295.5	235.1
85°	175.7	190.3	202.6	223.9	218.3	208.2	139.9	124.2
87.5°	80.6	91.8	96.3	106.3	101.9	97.4	69.4	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)