

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: P300622

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300622  
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-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K 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: 24484.5 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

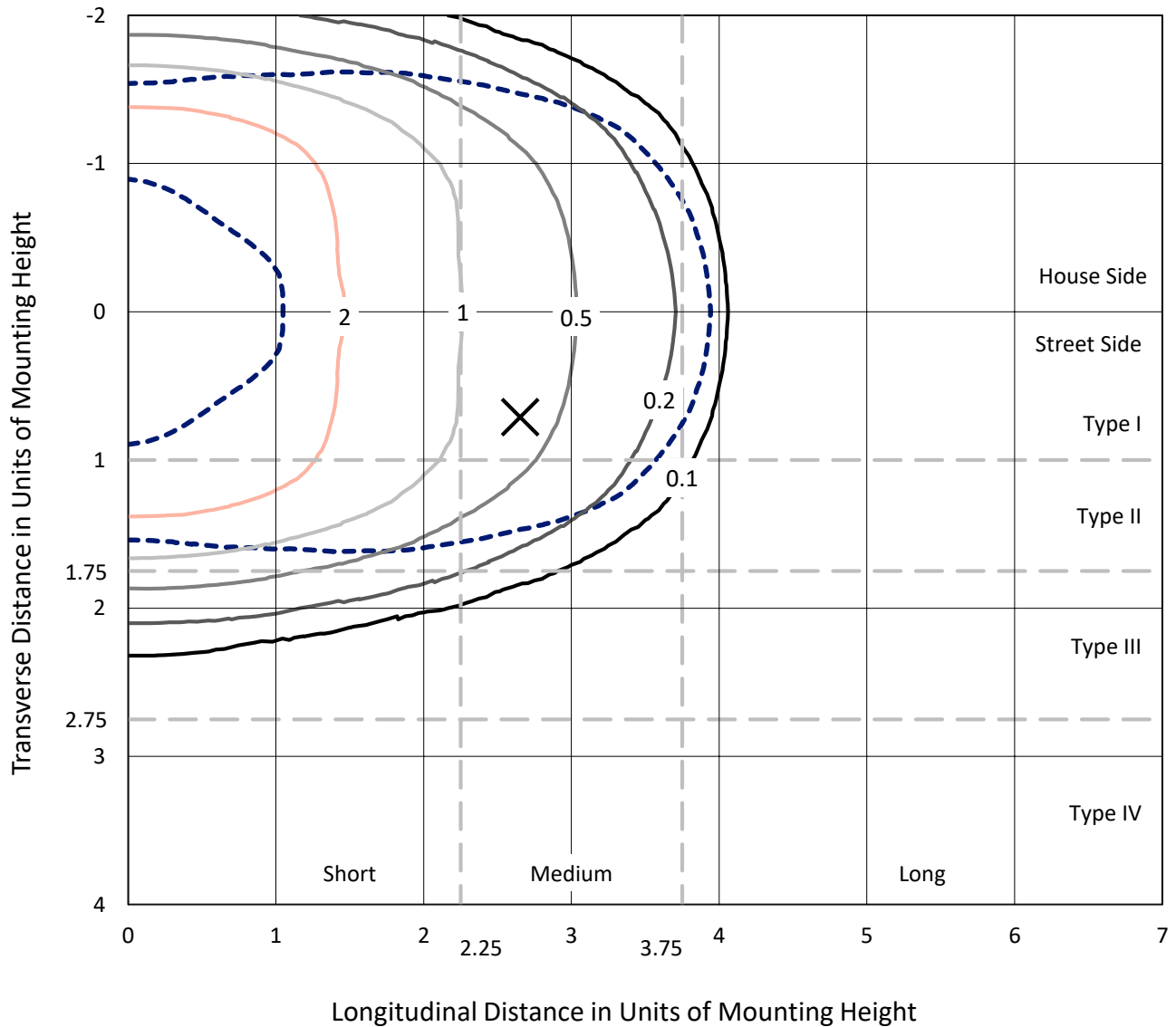
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

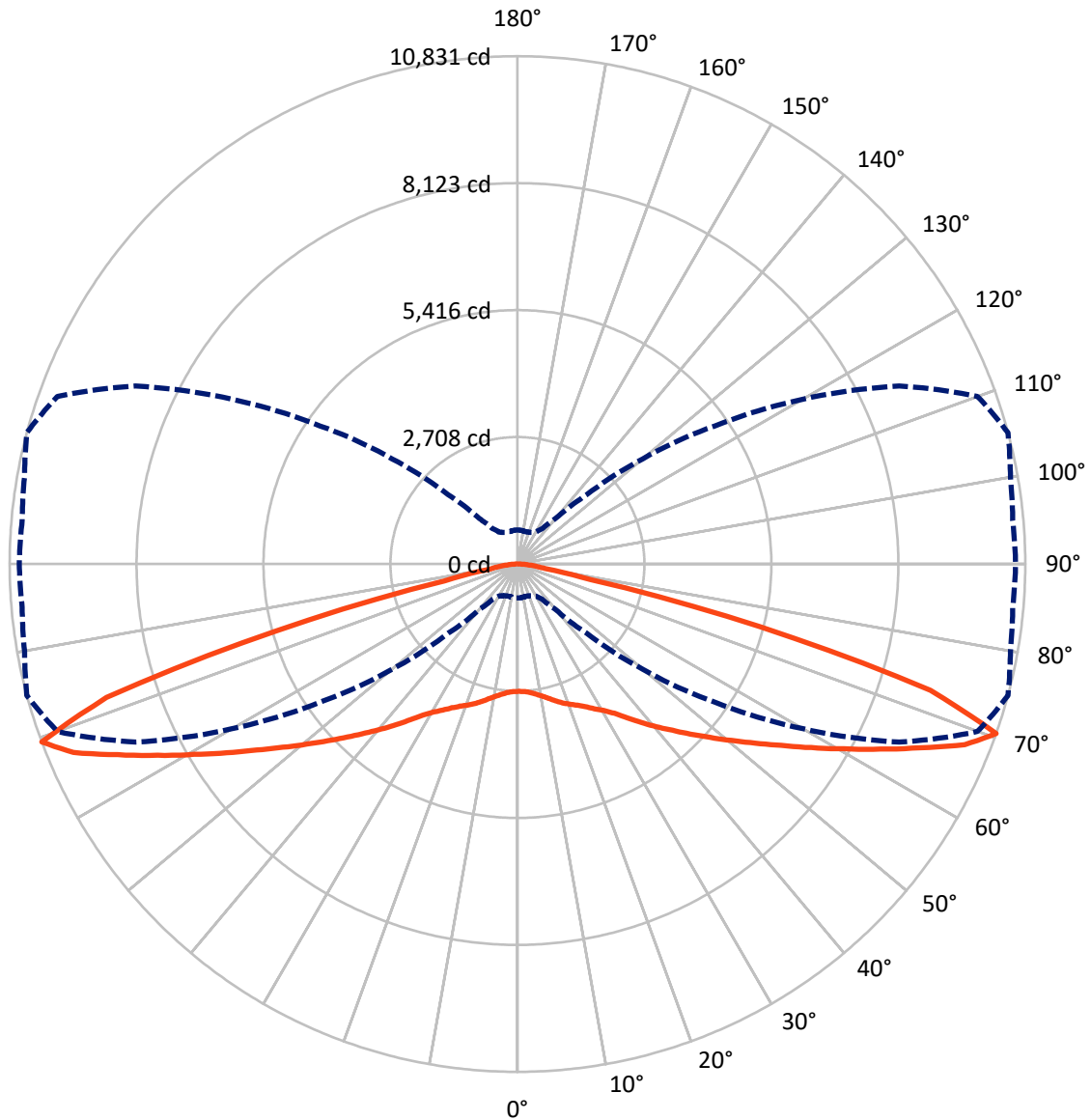
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	12242.3	0.0	12242.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12242.3	0.0	12242.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24484.5	0.0	24484.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.5	1.1
10°-20°	809.3	3.3
20°-30°	1523.3	6.2
30°-40°	2697.5	11.0
40°-50°	4511.0	18.4
50°-60°	6286.1	25.7
60°-70°	5829.4	23.8
70°-80°	2323.2	9.5
80°-90°	244.2	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°	24484.5	100.0
0°-180°	24484.5	100.0



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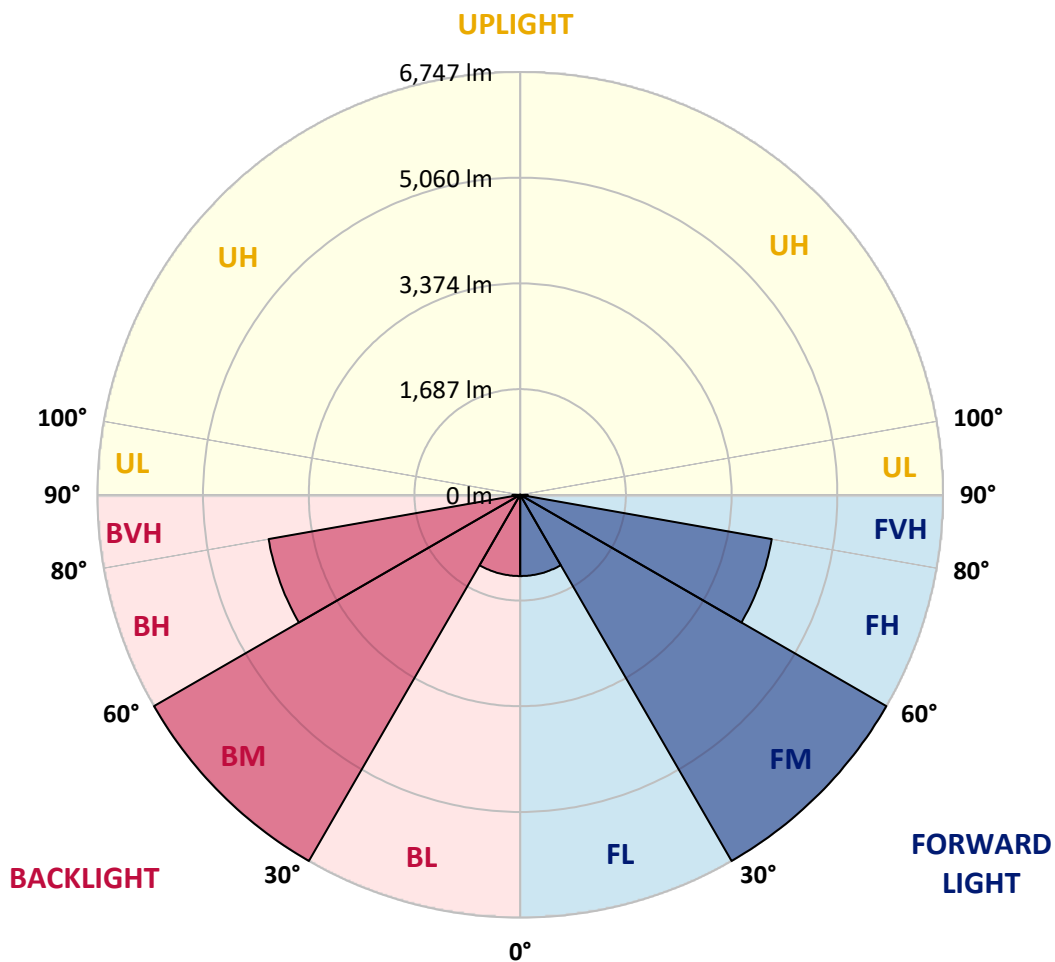
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1296.6	5.3			
FM	(30°-60°)	6747.3	27.6			
FH	(60°-80°)	4076.3	16.6			G2/5000
FVH	(80°-90°)	122.1	0.5			G2/225
BL	(0°-30°)	1296.6	5.3	B3/2500		
BM	(30°-60°)	6747.3	27.6	B4/8500		
BH	(60°-80°)	4076.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.1	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°	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9
2.5°	2711.3	2709.0	2711.3	2710.1	2712.4	2712.4	2714.7	2719.4	2719.4	2722.8	2721.7
5°	2684.7	2683.5	2687.0	2690.4	2693.9	2700.9	2707.8	2718.2	2726.3	2732.1	2737.9
7.5°	2632.6	2632.6	2637.2	2645.3	2653.4	2668.5	2684.7	2705.5	2726.3	2743.7	2758.7
10°	2589.8	2592.1	2597.9	2611.8	2625.6	2648.8	2670.8	2700.9	2729.8	2758.7	2781.9
12.5°	2564.3	2567.8	2578.2	2599.0	2622.2	2653.4	2687.0	2725.2	2757.6	2792.3	2815.4
15°	2572.4	2574.7	2589.8	2615.2	2645.3	2684.7	2729.8	2774.9	2813.1	2850.1	2881.4
17.5°	2617.5	2621.0	2638.4	2667.3	2698.5	2744.8	2793.4	2844.4	2891.8	2933.5	2971.6
20°	2698.5	2702.0	2724.0	2755.2	2792.3	2839.7	2888.3	2941.6	2994.8	3038.8	3081.6
22.5°	2813.1	2818.9	2839.7	2871.0	2912.6	2963.5	3021.4	3078.1	3129.0	3169.5	3207.7
25°	2963.5	2976.3	2995.9	3030.7	3074.6	3120.9	3183.4	3241.3	3289.9	3328.1	3355.8
27.5°	3176.5	3193.8	3208.9	3242.4	3285.2	3329.2	3391.7	3442.6	3488.9	3525.9	3546.8
30°	3458.8	3476.2	3491.2	3523.6	3563.0	3604.6	3663.6	3708.8	3737.7	3766.6	3765.5
32.5°	3801.3	3819.9	3825.6	3860.4	3900.9	3946.0	3999.2	4024.7	4047.8	4051.3	4030.5
35°	4184.4	4193.6	4216.8	4263.1	4309.3	4346.4	4397.3	4410.0	4410.0	4392.7	4346.4
37.5°	4604.4	4610.2	4642.6	4694.7	4742.1	4780.3	4815.0	4840.5	4827.8	4790.7	4713.2
40°	5065.0	5075.4	5121.7	5168.0	5221.2	5257.1	5294.1	5298.7	5286.0	5231.6	5126.3
42.5°	5504.7	5514.0	5560.3	5633.2	5702.6	5752.3	5787.1	5794.0	5753.5	5703.7	5573.0
45°	5883.1	5907.4	5967.6	6053.2	6153.9	6224.5	6271.9	6291.6	6255.7	6190.9	6039.3
47.5°	6182.8	6207.1	6292.7	6394.6	6519.6	6634.1	6712.8	6754.5	6745.2	6696.6	6531.1
50°	6402.7	6425.8	6518.4	6643.4	6789.2	6931.5	7065.7	7165.3	7200.0	7178.0	7026.4
52.5°	6428.1	6466.3	6575.1	6742.9	6932.7	7127.1	7318.0	7487.0	7601.5	7618.9	7506.6
55°	6072.9	6111.1	6261.5	6510.3	6792.7	7109.7	7415.2	7699.9	7925.5	8041.2	7982.2
57.5°	5235.1	5303.4	5461.9	5753.5	6168.9	6643.4	7130.5	7636.2	8095.6	8402.3	8461.3
60°	4011.9	4092.9	4252.6	4562.8	5025.6	5591.5	6241.8	6989.4	7800.6	8490.2	8902.2
62.5°	2573.6	2649.9	2817.7	3087.4	3464.6	4077.9	4775.7	5663.2	6753.3	7842.2	8823.5
65°	1322.7	1364.3	1452.3	1615.4	1909.3	2367.6	2993.6	3878.9	5125.2	6468.6	7887.3
67.5°	837.8	845.9	865.6	888.7	963.9	1122.5	1414.1	1966.1	2991.3	4392.7	6053.2
70°	724.4	724.4	715.1	711.7	720.9	742.9	788.0	916.5	1262.5	2085.2	3491.2
72.5°	663.1	656.1	639.9	627.2	624.9	624.9	634.1	653.8	709.4	849.4	1366.6
75°	611.0	591.3	569.3	554.3	548.5	542.7	541.6	545.0	556.6	578.6	652.6
77.5°	547.3	521.9	496.4	481.4	474.4	466.3	459.4	451.3	445.5	452.5	484.9
80°	471.0	442.0	422.4	413.1	406.2	394.6	379.6	365.7	352.9	350.6	370.3
82.5°	379.6	346.0	347.2	350.6	337.9	321.7	305.5	290.5	268.5	256.9	268.5
85°	306.7	289.3	281.2	303.2	284.7	260.4	234.9	208.3	173.6	145.8	158.5
87.5°	119.2	119.2	178.2	274.3	246.5	201.3	172.4	147.0	91.4	70.6	71.7
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°	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9	2715.9
2.5°	2720.5	2722.8	2721.7	2720.5	2720.5	2719.4	2720.5	2720.5
5°	2741.4	2747.1	2747.1	2749.5	2749.5	2750.6	2751.8	2750.6
7.5°	2772.6	2783.0	2790.0	2798.1	2799.2	2800.4	2802.7	2800.4
10°	2803.8	2824.7	2839.7	2854.8	2861.7	2864.0	2866.3	2866.3
12.5°	2843.2	2872.1	2898.7	2925.4	2938.1	2945.0	2945.0	2949.7
15°	2908.0	2936.9	2968.2	3004.0	3026.0	3037.6	3041.1	3041.1
17.5°	2999.4	3024.9	3051.5	3086.2	3114.0	3129.0	3132.5	3131.3
20°	3105.9	3130.2	3145.2	3167.2	3191.5	3208.9	3213.5	3213.5
22.5°	3227.4	3241.3	3243.6	3250.5	3270.2	3293.3	3303.8	3306.1
25°	3361.6	3365.1	3355.8	3355.8	3368.6	3390.5	3401.0	3402.1
27.5°	3535.2	3517.8	3494.7	3486.6	3494.7	3520.1	3532.9	3537.5
30°	3751.6	3709.9	3656.7	3627.8	3623.1	3656.7	3679.8	3683.3
32.5°	3999.2	3939.0	3868.5	3809.4	3794.4	3815.2	3843.0	3841.8
35°	4293.1	4221.4	4135.8	4060.5	4025.8	4046.7	4086.0	4090.6
37.5°	4632.2	4538.5	4440.1	4345.2	4290.8	4296.6	4338.3	4352.2
40°	5010.6	4889.1	4765.3	4638.0	4560.4	4545.4	4596.3	4604.4
42.5°	5415.6	5259.4	5103.2	4945.8	4846.3	4823.1	4882.1	4878.7
45°	5847.2	5648.2	5465.4	5291.8	5173.8	5139.0	5187.6	5187.6
47.5°	6311.3	6065.9	5848.4	5651.7	5523.2	5473.5	5519.8	5523.2
50°	6803.1	6542.7	6287.0	6068.3	5914.4	5850.7	5910.9	5920.1
52.5°	7292.6	7039.1	6781.1	6531.1	6344.8	6267.3	6336.7	6366.8
55°	7789.0	7540.2	7293.7	7049.5	6828.5	6737.1	6811.2	6849.4
57.5°	8313.2	8082.9	7848.0	7601.5	7388.6	7246.3	7325.0	7375.9
60°	8927.6	8730.9	8486.8	8214.8	7999.6	7854.9	7900.1	7945.2
62.5°	9413.7	9490.0	9282.9	8968.2	8691.6	8506.4	8550.4	8597.9
65°	9178.8	9962.2	10146.2	9827.9	9444.9	9156.8	9138.3	9162.6
67.5°	7672.1	9193.8	10303.5	10606.7	10286.2	9885.8	9811.7	9847.6
70°	5132.1	7027.6	8985.5	10443.6	10831.2	10676.1	10603.2	10625.2
72.5°	2464.8	4092.9	6096.0	8034.3	9214.6	9756.2	9929.8	10014.2
75°	901.4	1624.7	2938.1	4427.4	5345.0	6187.4	6737.1	6961.6
77.5°	543.9	656.1	938.5	1412.9	1600.4	1791.3	1717.3	1754.3
80°	402.7	454.8	514.9	578.6	599.4	599.4	576.3	557.8
82.5°	282.4	315.9	344.8	379.6	388.8	371.5	305.5	243.0
85°	181.7	196.7	209.4	231.4	225.7	215.2	144.6	128.4
87.5°	83.3	94.9	99.5	109.9	105.3	100.7	71.7	60.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)