

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: P269383

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269383  
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-06-LED-E1-RW-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25545 lumens  
Efficiency: N/A  
Efficacy: 102.6 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): 249  
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

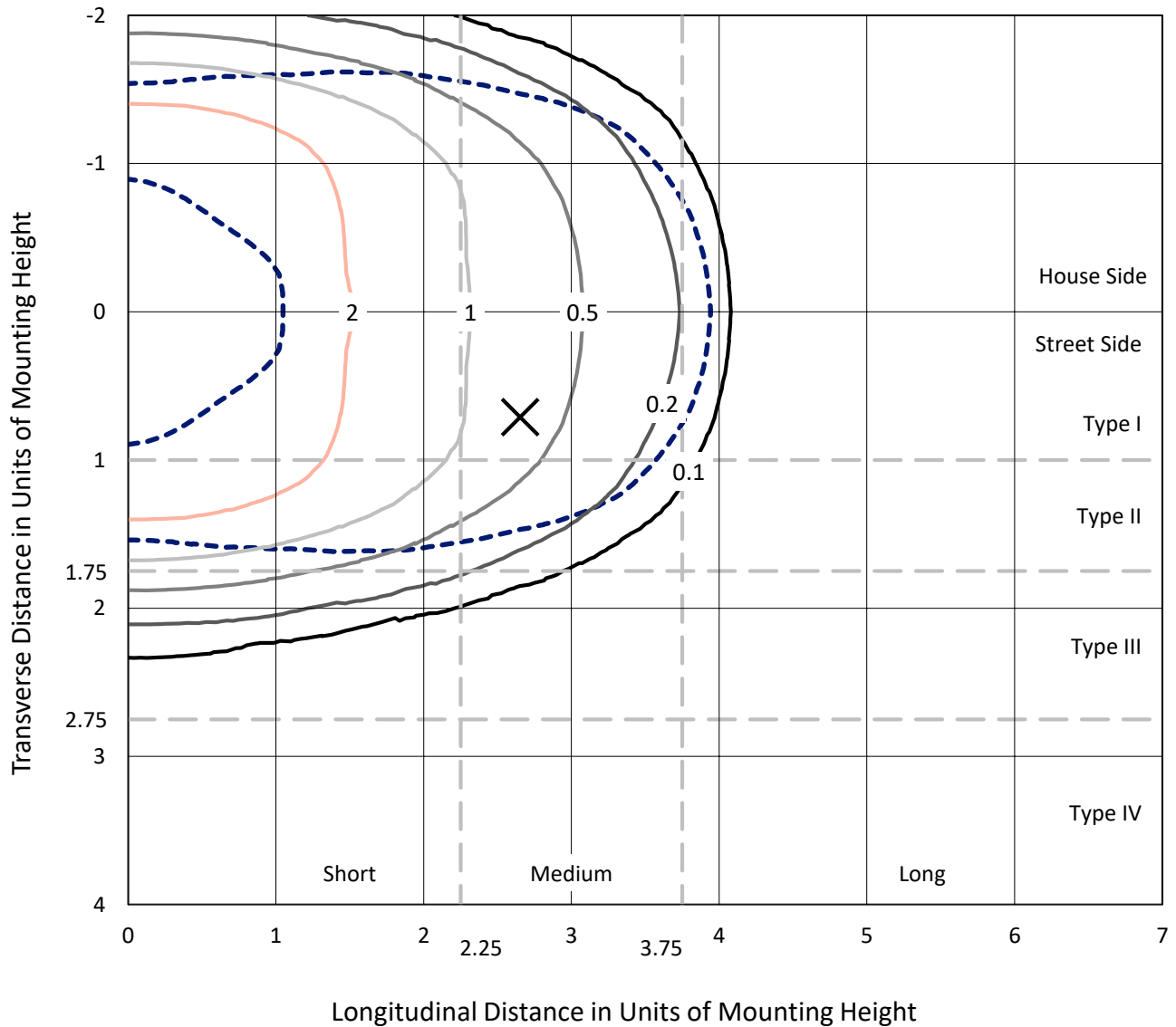


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

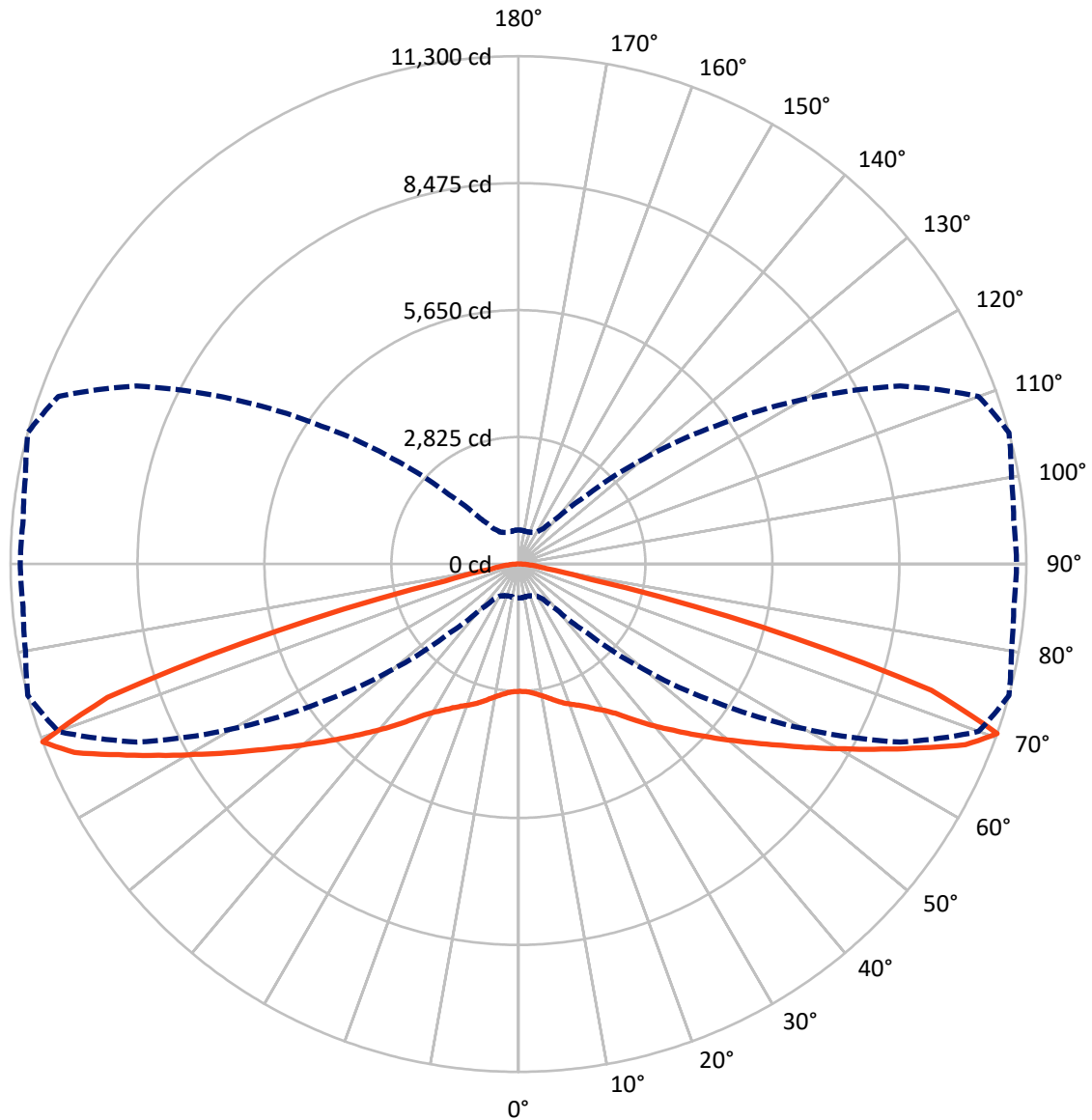


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Medium - Full Cutoff

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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	12772.5	0.0	12772.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12772.5	0.0	12772.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25545.0	0.0	25545.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.8	1.1
10°-20°	844.4	3.3
20°-30°	1589.3	6.2
30°-40°	2814.3	11.0
40°-50°	4706.4	18.4
50°-60°	6558.4	25.7
60°-70°	6081.9	23.8
70°-80°	2423.8	9.5
80°-90°	254.8	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°	25545.0	100.0
0°-180°	25545.0	100.0



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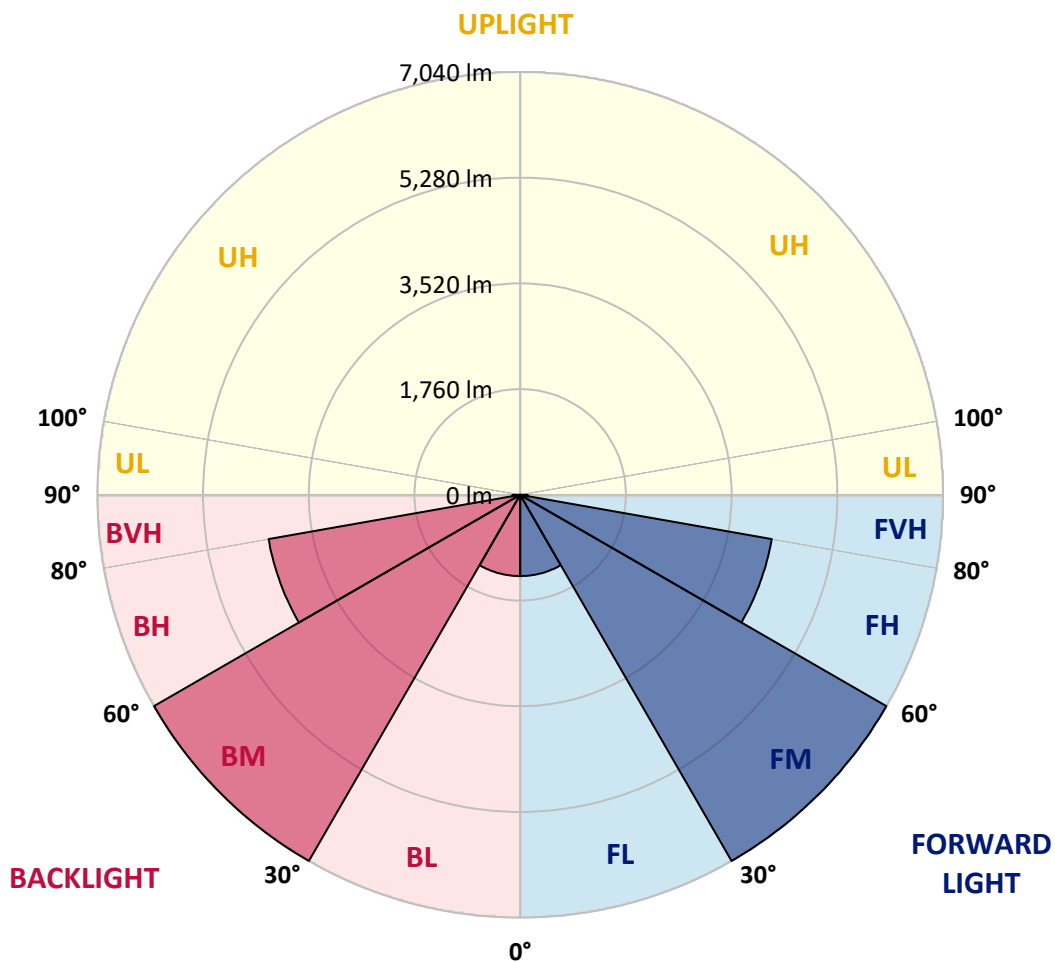
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1352.7	5.3			
FM	(30°-60°)	7039.6	27.6			
FH	(60°-80°)	4252.8	16.6			G2/5000
FVH	(80°-90°)	127.4	0.5			G2/225
BL	(0°-30°)	1352.7	5.3	B3/2500		
BM	(30°-60°)	7039.6	27.6	B4/8500		
BH	(60°-80°)	4252.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	127.4	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°	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6
2.5°	2828.8	2826.2	2828.8	2827.5	2829.9	2829.9	2832.4	2837.1	2837.1	2840.8	2839.6
5°	2800.9	2799.7	2803.3	2806.9	2810.5	2817.9	2825.1	2835.9	2844.5	2850.4	2856.5
7.5°	2746.6	2746.6	2751.5	2760.0	2768.3	2784.0	2800.9	2822.7	2844.5	2862.4	2878.2
10°	2701.9	2704.3	2710.4	2724.9	2739.4	2763.5	2786.5	2817.9	2848.0	2878.2	2902.3
12.5°	2675.4	2679.0	2689.9	2711.7	2735.8	2768.3	2803.3	2843.1	2877.0	2913.3	2937.4
15°	2683.9	2686.2	2701.9	2728.5	2760.0	2800.9	2848.0	2895.1	2934.9	2973.6	3006.2
17.5°	2730.8	2734.5	2752.6	2782.8	2815.4	2863.7	2914.5	2967.6	3017.0	3060.5	3100.3
20°	2815.4	2819.1	2842.0	2874.5	2913.3	2962.7	3013.5	3069.0	3124.6	3170.4	3215.0
22.5°	2934.9	2941.1	2962.7	2995.3	3038.7	3091.8	3152.2	3211.4	3264.5	3306.8	3346.6
25°	3091.8	3105.3	3125.7	3161.9	3207.8	3256.0	3321.4	3381.7	3432.3	3472.2	3501.1
27.5°	3314.0	3332.2	3347.9	3382.8	3427.6	3473.3	3538.7	3591.8	3640.0	3678.6	3700.4
30°	3608.6	3626.7	3642.4	3676.3	3717.2	3760.8	3822.3	3869.4	3899.6	3929.7	3928.6
32.5°	3965.9	3985.3	3991.3	4027.6	4069.9	4116.9	4172.4	4198.9	4223.1	4226.7	4205.1
35°	4365.7	4375.3	4399.4	4447.7	4495.9	4534.6	4587.7	4600.9	4600.9	4583.0	4534.6
37.5°	4803.9	4809.9	4843.8	4898.0	4947.5	4987.4	5023.6	5050.1	5036.8	4998.2	4917.3
40°	5284.4	5295.1	5343.5	5391.7	5447.3	5484.8	5523.4	5528.2	5515.0	5458.2	5348.4
42.5°	5743.1	5752.7	5801.1	5877.2	5949.6	6001.4	6037.7	6045.0	6002.7	5950.8	5814.4
45°	6137.8	6163.4	6226.1	6315.4	6420.5	6494.0	6543.6	6564.2	6526.6	6459.1	6300.9
47.5°	6450.5	6476.1	6565.4	6671.5	6802.0	6921.5	7003.5	7047.1	7037.3	6986.7	6814.1
50°	6679.9	6704.1	6800.7	6931.1	7083.2	7231.7	7371.9	7475.6	7511.8	7488.9	7330.8
52.5°	6706.6	6746.5	6859.8	7034.9	7233.0	7435.8	7635.0	7811.2	7930.7	7948.9	7831.8
55°	6335.9	6375.8	6532.7	6792.3	7086.9	7417.7	7736.5	8033.5	8268.8	8389.5	8327.9
57.5°	5461.9	5533.1	5698.5	6002.7	6436.1	6931.1	7439.5	7967.0	8446.3	8766.2	8827.9
60°	4185.7	4270.3	4436.8	4760.4	5243.2	5833.8	6512.3	7292.1	8138.5	8857.9	9287.8
62.5°	2685.0	2764.8	2939.8	3221.1	3614.7	4254.6	4982.4	5908.5	7045.9	8181.9	9205.7
65°	1379.9	1423.5	1515.3	1685.4	1992.0	2470.1	3123.2	4046.9	5347.2	6748.8	8229.0
67.5°	874.1	882.6	903.1	927.2	1005.7	1171.1	1475.3	2051.2	3120.9	4583.0	6315.4
70°	755.7	755.7	746.1	742.4	752.2	775.1	822.2	956.2	1317.2	2175.5	3642.4
72.5°	691.8	684.6	667.6	654.3	651.9	651.9	661.6	682.2	740.1	886.2	1425.8
75°	637.4	617.0	594.0	578.2	572.3	566.2	565.0	568.6	580.8	603.7	680.9
77.5°	571.1	544.6	518.0	502.2	495.0	486.5	479.2	470.8	464.9	472.1	505.8
80°	491.4	461.2	440.7	430.9	423.8	411.8	396.1	381.5	368.2	365.8	386.4
82.5°	396.1	360.9	362.1	365.8	352.6	335.6	318.7	303.1	280.1	268.1	280.1
85°	319.9	301.8	293.3	316.4	297.0	271.6	245.1	217.3	181.1	152.2	165.4
87.5°	124.3	124.3	185.9	286.1	257.2	210.1	179.9	153.3	95.4	73.7	74.9
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°	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6	2833.6
2.5°	2838.4	2840.8	2839.6	2838.4	2838.4	2837.1	2838.4	2838.4
5°	2860.2	2866.1	2866.1	2868.6	2868.6	2869.7	2871.0	2869.7
7.5°	2892.7	2903.5	2910.8	2919.2	2920.5	2921.6	2924.2	2921.6
10°	2925.3	2947.0	2962.7	2978.4	2985.6	2988.1	2990.5	2990.5
12.5°	2966.4	2996.6	3024.4	3052.0	3065.3	3072.7	3072.7	3077.5
15°	3033.9	3064.1	3096.7	3134.1	3157.2	3169.2	3172.9	3172.9
17.5°	3129.3	3155.8	3183.7	3219.9	3248.8	3264.5	3268.2	3267.0
20°	3240.4	3265.8	3281.5	3304.3	3329.7	3347.9	3352.7	3352.7
22.5°	3367.1	3381.7	3384.1	3391.3	3411.9	3435.9	3446.8	3449.2
25°	3507.3	3510.8	3501.1	3501.1	3514.4	3537.3	3548.2	3549.5
27.5°	3688.4	3670.1	3646.0	3637.5	3646.0	3672.6	3685.8	3690.7
30°	3914.1	3870.5	3815.1	3784.9	3780.1	3815.1	3839.3	3842.8
32.5°	4172.4	4109.7	4036.1	3974.5	3958.7	3980.5	4009.4	4008.2
35°	4479.0	4404.2	4314.9	4236.4	4200.3	4221.9	4262.9	4267.8
37.5°	4832.8	4735.1	4632.4	4533.4	4476.7	4482.7	4526.2	4540.7
40°	5227.6	5100.8	4971.7	4838.9	4758.1	4742.3	4795.4	4803.9
42.5°	5650.2	5487.1	5324.3	5160.0	5056.2	5032.0	5093.6	5089.9
45°	6100.5	5892.8	5702.1	5521.1	5397.8	5361.7	5412.4	5412.4
47.5°	6584.7	6328.6	6101.6	5896.5	5762.4	5710.5	5758.9	5762.4
50°	7097.7	6826.1	6559.2	6331.1	6170.5	6104.2	6167.0	6176.6
52.5°	7608.5	7344.1	7074.8	6814.1	6619.6	6538.8	6611.2	6642.5
55°	8126.3	7866.7	7609.6	7355.0	7124.3	7028.9	7106.2	7146.0
57.5°	8673.2	8433.0	8188.0	7930.7	7708.6	7560.1	7642.2	7695.3
60°	9314.3	9109.2	8854.4	8570.5	8346.2	8195.1	8242.3	8289.3
62.5°	9821.3	9901.1	9684.9	9356.6	9068.0	8874.9	8920.8	8970.3
65°	9576.3	10393.7	10585.6	10253.7	9854.0	9553.4	9534.2	9559.5
67.5°	8004.3	9592.0	10749.7	11066.1	10731.7	10314.0	10236.7	10274.2
70°	5354.3	7332.0	9374.7	10895.9	11300.4	11138.5	11062.4	11085.4
72.5°	2571.6	4270.3	6360.1	8382.4	9613.8	10178.8	10359.9	10447.9
75°	940.4	1695.0	3065.3	4619.2	5576.5	6455.4	7028.9	7263.2
77.5°	567.4	684.6	979.2	1474.1	1669.7	1869.0	1791.6	1830.2
80°	420.1	474.5	537.2	603.7	625.4	625.4	601.2	581.9
82.5°	294.6	329.6	359.9	396.1	405.7	387.6	318.7	253.5
85°	189.5	205.3	218.5	241.5	235.4	224.5	150.9	133.9
87.5°	87.0	99.1	103.8	114.8	109.9	105.0	74.9	62.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)