

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: P191822

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191822  
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-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26925 lumens  
Efficiency: N/A  
Efficacy: 104.4 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): 258  
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

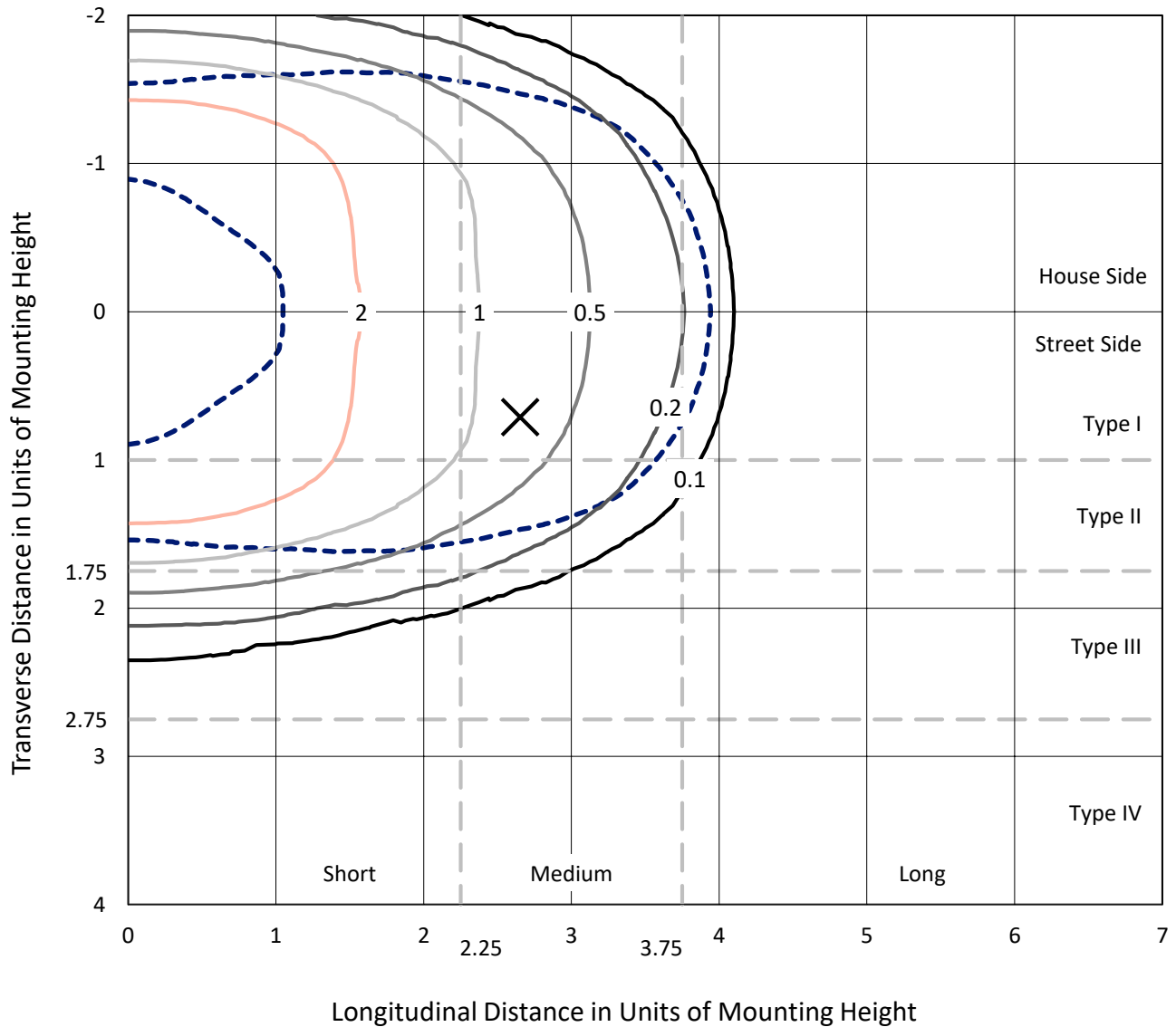


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

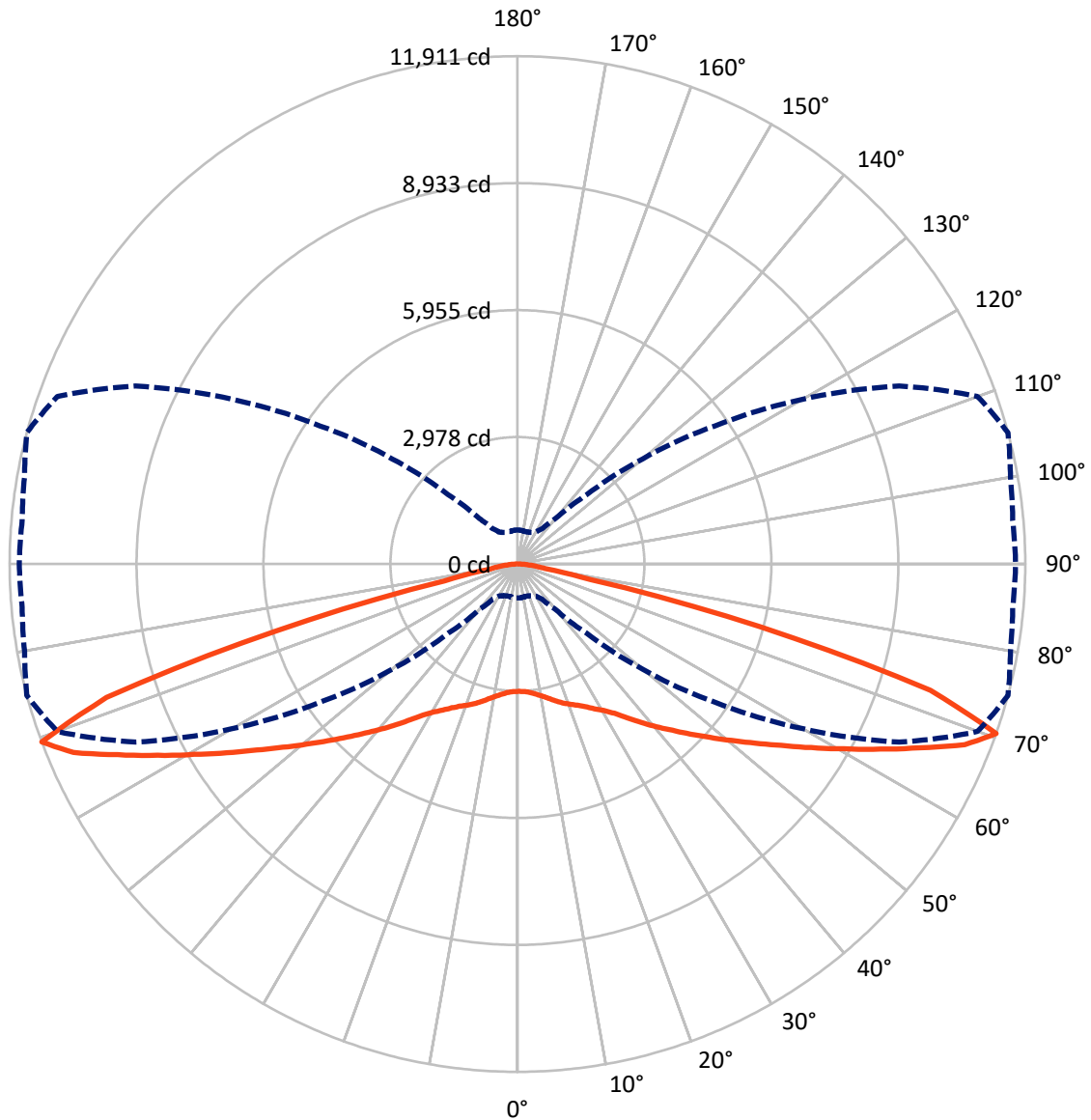


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - Full Cutoff

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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	13462.5	0.0	13462.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13462.5	0.0	13462.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26925.0	0.0	26925.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.4	1.1
10°-20°	890.0	3.3
20°-30°	1675.1	6.2
30°-40°	2966.3	11.0
40°-50°	4960.7	18.4
50°-60°	6912.7	25.7
60°-70°	6410.4	23.8
70°-80°	2554.7	9.5
80°-90°	268.5	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°	26925.0	100.0
0°-180°	26925.0	100.0



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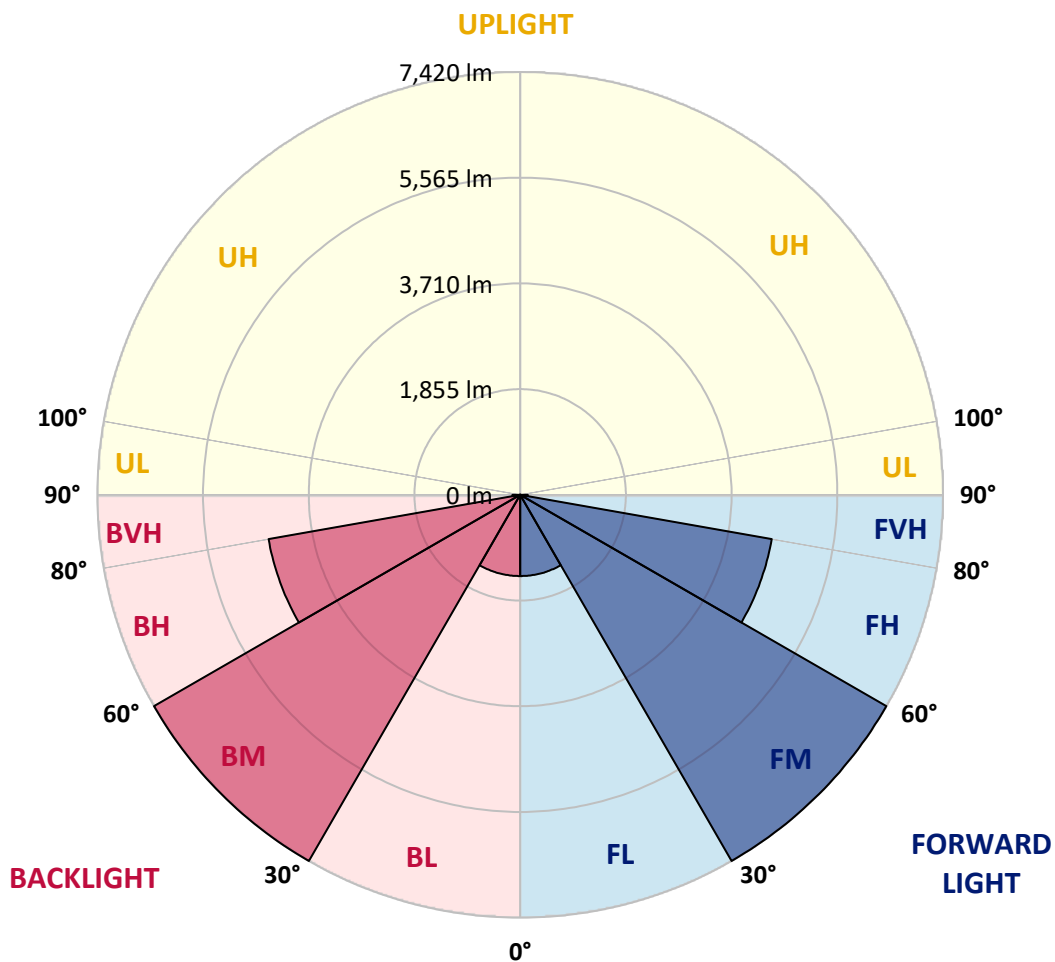
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.8	5.3			
FM	(30°-60°)	7419.9	27.6			
FH	(60°-80°)	4482.6	16.6			G2/5000
FVH	(80°-90°)	134.3	0.5			G2/225
BL	(0°-30°)	1425.8	5.3	B3/2500		
BM	(30°-60°)	7419.9	27.6	B4/8500		
BH	(60°-80°)	4482.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	134.3	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°	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6
2.5°	2981.5	2979.0	2981.5	2980.2	2982.8	2982.8	2985.3	2990.4	2990.4	2994.2	2993.0
5°	2952.3	2951.0	2954.8	2958.6	2962.4	2970.1	2977.7	2989.2	2998.1	3004.4	3010.8
7.5°	2895.0	2895.0	2900.1	2909.0	2917.9	2934.4	2952.3	2975.2	2998.1	3017.2	3033.7
10°	2847.9	2850.5	2856.8	2872.1	2887.4	2912.8	2937.0	2970.1	3001.9	3033.7	3059.1
12.5°	2819.9	2823.7	2835.2	2858.1	2883.5	2917.9	2954.8	2996.8	3032.4	3070.6	3096.0
15°	2828.8	2831.4	2847.9	2875.9	2909.0	2952.3	3001.9	3051.5	3093.5	3134.2	3168.6
17.5°	2878.4	2882.3	2901.4	2933.2	2967.5	3018.4	3071.9	3127.9	3180.0	3225.8	3267.8
20°	2967.5	2971.3	2995.5	3029.9	3070.6	3122.8	3176.2	3234.8	3293.3	3341.6	3388.7
22.5°	3093.5	3099.9	3122.8	3157.1	3202.9	3258.9	3322.6	3384.9	3440.9	3485.4	3527.4
25°	3258.9	3272.9	3294.6	3332.7	3381.1	3432.0	3500.7	3564.3	3617.8	3659.8	3690.3
27.5°	3493.1	3512.2	3528.7	3565.6	3612.7	3661.0	3729.8	3785.8	3836.7	3877.4	3900.3
30°	3803.6	3822.7	3839.2	3874.8	3918.1	3963.9	4028.8	4078.4	4110.2	4142.1	4140.8
32.5°	4180.2	4200.6	4207.0	4245.1	4289.7	4339.3	4397.8	4425.8	4451.3	4455.1	4432.2
35°	4601.4	4611.6	4637.1	4688.0	4738.9	4779.6	4835.6	4849.6	4849.6	4830.5	4779.6
37.5°	5063.4	5069.7	5105.4	5162.6	5214.8	5256.8	5295.0	5323.0	5309.0	5268.2	5183.0
40°	5569.8	5581.3	5632.2	5683.1	5741.6	5781.1	5821.8	5826.9	5812.9	5753.1	5637.3
42.5°	6053.4	6063.6	6114.5	6194.6	6271.0	6325.7	6363.9	6371.5	6327.0	6272.3	6128.5
45°	6469.5	6496.2	6562.4	6656.6	6767.3	6844.9	6897.1	6918.7	6879.3	6808.0	6641.3
47.5°	6799.1	6825.8	6920.0	7032.0	7169.4	7295.4	7381.9	7427.7	7417.5	7364.1	7182.1
50°	7040.9	7066.3	7168.1	7305.6	7465.9	7622.4	7770.0	7879.5	7917.6	7893.5	7726.8
52.5°	7068.9	7110.9	7230.5	7415.0	7623.7	7837.5	8047.4	8233.2	8359.2	8378.3	8254.9
55°	6678.2	6720.2	6885.6	7159.2	7469.7	7818.4	8154.3	8467.4	8715.5	8842.8	8777.9
57.5°	5756.9	5832.0	6006.3	6327.0	6783.8	7305.6	7841.3	8397.4	8902.6	9239.8	9304.7
60°	4411.8	4500.9	4676.5	5017.6	5526.6	6148.8	6864.0	7686.0	8578.1	9336.5	9789.5
62.5°	2830.1	2914.1	3098.6	3395.1	3809.9	4484.4	5251.7	6227.7	7426.4	8623.9	9703.0
65°	1454.5	1500.3	1597.0	1776.4	2099.7	2603.6	3292.0	4265.5	5636.0	7113.4	8673.5
67.5°	921.3	930.2	951.8	977.3	1060.0	1234.3	1555.0	2162.0	3289.5	4830.5	6656.6
70°	796.6	796.6	786.4	782.6	792.8	817.0	866.6	1007.8	1388.3	2293.1	3839.2
72.5°	729.2	721.5	703.7	689.7	687.2	687.2	697.3	719.0	780.1	934.0	1502.8
75°	671.9	650.3	626.1	609.5	603.2	596.8	595.5	599.4	612.1	636.3	717.7
77.5°	601.9	573.9	545.9	529.4	521.7	512.8	505.2	496.3	489.9	497.6	533.2
80°	517.9	486.1	464.5	454.3	446.7	433.9	417.4	402.1	388.1	385.6	407.2
82.5°	417.4	380.5	381.8	385.6	371.6	353.8	335.9	319.4	295.2	282.5	295.2
85°	337.2	318.1	309.2	333.4	313.0	286.3	258.3	229.1	190.9	160.3	174.3
87.5°	131.1	131.1	196.0	301.6	271.0	221.4	189.6	161.6	100.5	77.6	78.9
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°	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6	2986.6
2.5°	2991.7	2994.2	2993.0	2991.7	2991.7	2990.4	2991.7	2991.7
5°	3014.6	3021.0	3021.0	3023.5	3023.5	3024.8	3026.1	3024.8
7.5°	3049.0	3060.4	3068.1	3077.0	3078.2	3079.5	3082.0	3079.5
10°	3083.3	3106.2	3122.8	3139.3	3146.9	3149.5	3152.0	3152.0
12.5°	3126.6	3158.4	3187.7	3216.9	3230.9	3238.6	3238.6	3243.7
15°	3197.8	3229.7	3264.0	3303.5	3327.6	3340.4	3344.2	3344.2
17.5°	3298.4	3326.4	3355.6	3393.8	3424.4	3440.9	3444.7	3443.4
20°	3415.4	3442.2	3458.7	3482.9	3509.6	3528.7	3533.8	3533.8
22.5°	3549.1	3564.3	3566.9	3574.5	3596.1	3621.6	3633.1	3635.6
25°	3696.7	3700.5	3690.3	3690.3	3704.3	3728.5	3739.9	3741.2
27.5°	3887.6	3868.5	3843.0	3834.1	3843.0	3871.0	3885.0	3890.1
30°	4125.5	4079.7	4021.2	3989.4	3984.3	4021.2	4046.6	4050.4
32.5°	4397.8	4331.7	4254.0	4189.1	4172.6	4195.5	4226.0	4224.8
35°	4721.1	4642.2	4548.0	4465.3	4427.1	4450.0	4493.3	4498.4
37.5°	5093.9	4990.8	4882.7	4778.3	4718.5	4724.9	4770.7	4786.0
40°	5510.0	5376.4	5240.2	5100.3	5015.0	4998.5	5054.5	5063.4
42.5°	5955.4	5783.6	5611.8	5438.8	5329.3	5303.9	5368.8	5365.0
45°	6430.1	6211.2	6010.1	5819.2	5689.4	5651.3	5704.7	5704.7
47.5°	6940.3	6670.6	6431.3	6215.0	6073.7	6019.0	6069.9	6073.7
50°	7481.2	7194.8	6913.6	6673.1	6503.9	6433.9	6500.0	6510.2
52.5°	8019.4	7740.8	7457.0	7182.1	6977.2	6892.0	6968.3	7001.4
55°	8565.3	8291.8	8020.7	7752.2	7509.2	7408.6	7490.1	7532.1
57.5°	9141.8	8888.6	8630.2	8359.2	8125.1	7968.5	8055.1	8111.1
60°	9817.5	9601.2	9332.7	9033.6	8796.9	8637.9	8687.5	8737.1
62.5°	10352.0	10436.0	10208.2	9862.0	9557.9	9354.3	9402.7	9454.8
65°	10093.6	10955.1	11157.5	10807.5	10386.3	10069.5	10049.1	10075.8
67.5°	8436.8	10110.2	11330.5	11663.9	11311.5	10871.2	10789.7	10829.2
70°	5643.6	7728.0	9881.1	11484.5	11910.8	11740.3	11660.1	11684.3
72.5°	2710.5	4500.9	6703.6	8835.1	10133.1	10728.6	10919.5	11012.4
75°	991.3	1786.6	3230.9	4868.7	5877.8	6804.2	7408.6	7655.5
77.5°	598.1	721.5	1032.0	1553.7	1759.9	1969.9	1888.4	1929.1
80°	442.8	500.1	566.3	636.3	659.2	659.2	633.7	613.4
82.5°	310.5	347.4	379.2	417.4	427.6	408.5	335.9	267.2
85°	199.8	216.3	230.3	254.5	248.1	236.7	159.1	141.2
87.5°	91.6	104.3	109.4	120.9	115.8	110.7	78.9	66.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)