

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: P191012

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191012
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25107.3 lumens
Efficiency: N/A
Efficacy: 111.6 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): 225
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

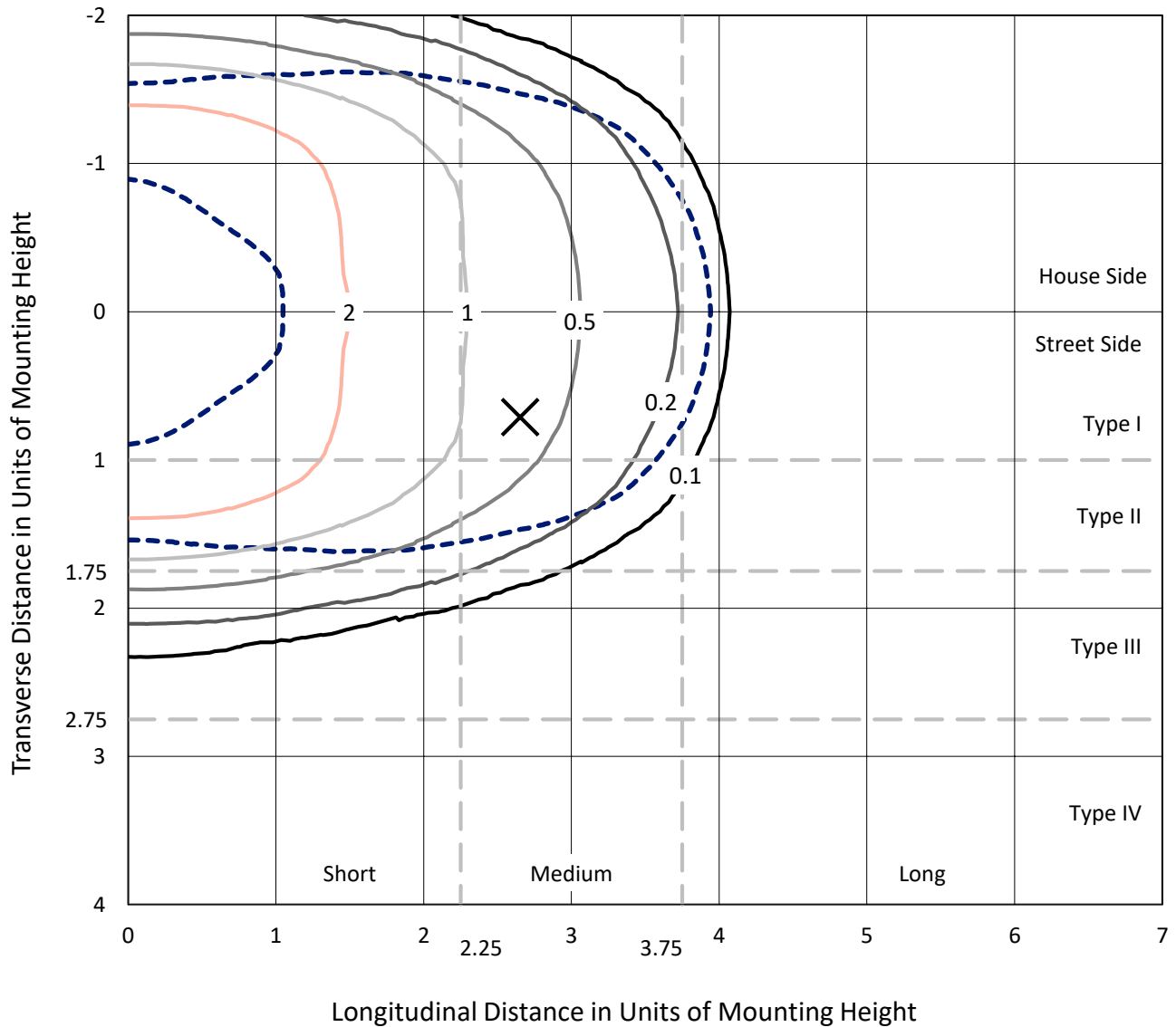


REPORT NUMBER: P191012

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

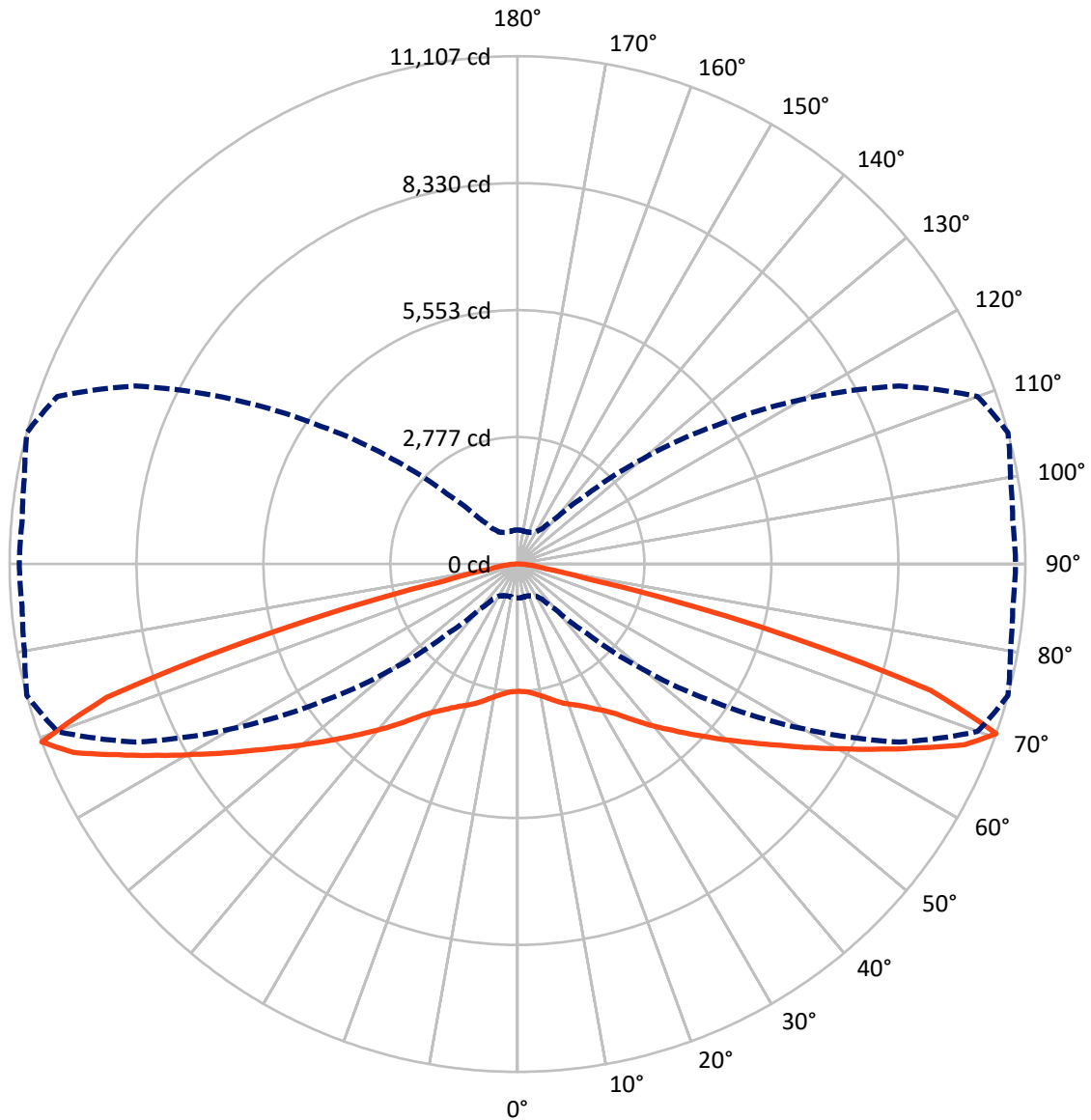


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191012

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P191012

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12553.7	0.0	12553.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12553.7	0.0	12553.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	25107.3	0.0	25107.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.1
10°-20°	829.9	3.3
20°-30°	1562.0	6.2
30°-40°	2766.1	11.0
40°-50°	4625.8	18.4
50°-60°	6446.0	25.7
60°-70°	5977.7	23.8
70°-80°	2382.3	9.5
80°-90°	250.4	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°	25107.3	100.0
0°-180°	25107.3	100.0



REPORT NUMBER: P191012

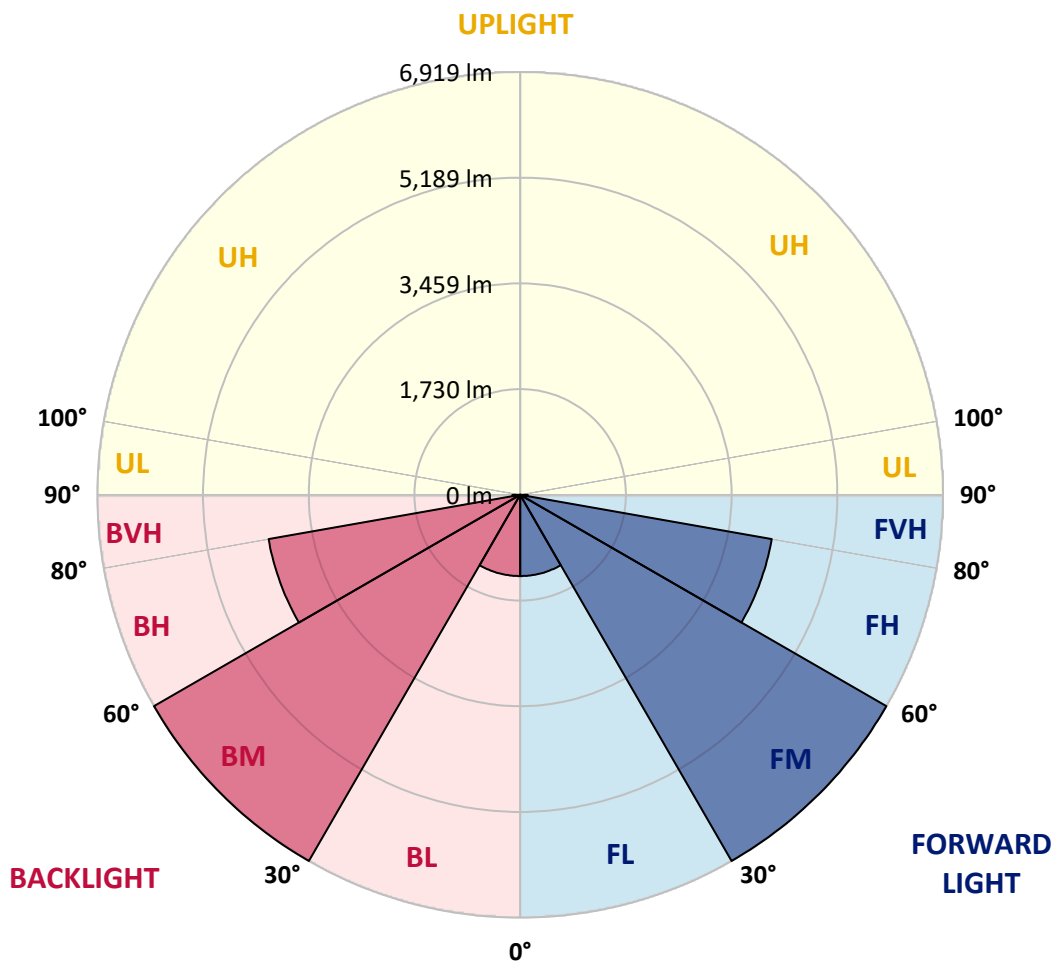
CATALOG NUMBER: GLEON-AF-04-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.5	5.3			
FM	(30°-60°)	6918.9	27.6			
FH	(60°-80°)	4180.0	16.6			G2/5000
FVH	(80°-90°)	125.2	0.5			G2/225
BL	(0°-30°)	1329.5	5.3	B3/2500		
BM	(30°-60°)	6918.9	27.6	B4/8500		
BH	(60°-80°)	4180.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	125.2	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: P191012

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	2780.3	2777.8	2780.3	2779.1	2781.4	2781.4	2783.8	2788.6	2788.6	2792.1	2790.9
5°	2753.0	2751.7	2755.3	2758.9	2762.5	2769.5	2776.7	2787.3	2795.6	2801.6	2807.5
7.5°	2699.6	2699.6	2704.3	2712.6	2720.9	2736.3	2753.0	2774.3	2795.6	2813.4	2828.9
10°	2655.7	2658.0	2664.0	2678.2	2692.4	2716.1	2738.7	2769.5	2799.2	2828.9	2852.6
12.5°	2629.5	2633.1	2643.8	2665.1	2688.8	2720.9	2755.3	2794.5	2827.7	2863.3	2887.1
15°	2637.9	2640.2	2655.7	2681.8	2712.6	2753.0	2799.2	2845.5	2884.6	2922.7	2954.7
17.5°	2684.1	2687.7	2705.5	2735.2	2767.2	2814.6	2864.5	2916.7	2965.3	3008.1	3047.3
20°	2767.2	2770.8	2793.3	2825.3	2863.3	2911.9	2961.7	3016.4	3071.0	3116.0	3160.0
22.5°	2884.6	2890.6	2911.9	2944.0	2986.7	3038.9	3098.2	3156.4	3208.6	3250.1	3289.3
25°	3038.9	3052.0	3072.1	3107.7	3152.8	3200.3	3264.3	3323.7	3373.6	3412.7	3441.2
27.5°	3257.3	3275.1	3290.5	3324.9	3368.8	3413.9	3477.9	3530.2	3577.7	3615.6	3637.0
30°	3546.8	3564.6	3580.0	3613.3	3653.6	3696.3	3756.8	3803.1	3832.8	3862.5	3861.2
32.5°	3898.1	3917.0	3922.9	3958.5	4000.0	4046.4	4100.9	4127.1	4150.8	4154.3	4133.0
35°	4290.8	4300.3	4324.0	4371.5	4418.9	4456.9	4509.2	4522.2	4522.2	4504.4	4456.9
37.5°	4721.5	4727.5	4760.7	4814.1	4862.7	4901.9	4937.5	4963.6	4950.6	4912.6	4833.0
40°	5193.8	5204.5	5251.9	5299.4	5354.0	5390.7	5428.8	5433.5	5420.4	5364.7	5256.7
42.5°	5644.7	5654.3	5701.7	5776.4	5847.6	5898.6	5934.2	5941.4	5899.9	5848.8	5714.7
45°	6032.8	6057.7	6119.4	6207.2	6310.4	6382.8	6431.5	6451.6	6414.8	6348.4	6192.9
47.5°	6340.0	6365.0	6452.8	6557.2	6685.4	6802.8	6883.5	6926.3	6916.8	6867.0	6697.3
50°	6565.5	6589.2	6684.2	6812.3	6961.9	7107.9	7245.5	7347.5	7383.1	7360.5	7205.2
52.5°	6591.7	6630.8	6742.4	6914.4	7109.0	7308.4	7504.2	7677.3	7794.9	7812.7	7697.6
55°	6227.3	6266.5	6420.8	6675.9	6965.5	7290.6	7603.8	7895.7	8127.1	8245.8	8185.2
57.5°	5368.2	5438.2	5600.9	5899.9	6325.8	6812.3	7312.0	7830.5	8301.6	8616.0	8676.6
60°	4114.0	4197.1	4360.8	4678.8	5153.4	5733.7	6400.6	7167.2	7999.0	8706.2	9128.6
62.5°	2639.0	2717.4	2889.4	3165.9	3552.7	4181.6	4897.2	5807.3	6925.1	8041.7	9047.9
65°	1356.3	1399.0	1489.2	1656.5	1957.9	2427.8	3069.8	3977.5	5255.5	6633.2	8088.0
67.5°	859.1	867.5	887.6	911.3	988.5	1151.0	1450.0	2016.0	3067.4	4504.4	6207.2
70°	742.9	742.9	733.4	729.8	739.3	761.8	808.1	939.8	1294.6	2138.3	3580.0
72.5°	680.0	672.8	656.2	643.1	640.8	640.8	650.3	670.4	727.4	870.9	1401.4
75°	626.6	606.4	583.8	568.4	562.4	556.5	555.4	558.9	570.8	593.3	669.2
77.5°	561.3	535.2	509.0	493.7	486.5	478.2	471.1	462.8	456.8	464.0	497.2
80°	482.9	453.3	433.1	423.6	416.5	404.7	389.2	375.0	361.9	359.6	379.7
82.5°	389.2	354.8	356.0	359.6	346.5	329.9	313.2	297.9	275.3	263.4	275.3
85°	314.5	296.7	288.4	310.9	292.0	267.0	240.9	213.6	178.0	149.6	162.5
87.5°	122.2	122.2	182.7	281.2	252.8	206.4	176.8	150.7	93.7	72.4	73.6
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: P191012

CATALOG NUMBER: GLEON-AF-04-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	2789.7	2792.1	2790.9	2789.7	2789.7	2788.6	2789.7	2789.7
5°	2811.1	2817.0	2817.0	2819.4	2819.4	2820.6	2821.8	2820.6
7.5°	2843.1	2853.8	2860.9	2869.3	2870.4	2871.6	2874.0	2871.6
10°	2875.2	2896.5	2911.9	2927.4	2934.5	2936.9	2939.2	2939.2
12.5°	2915.5	2945.2	2972.5	2999.8	3012.8	3020.0	3020.0	3024.7
15°	2982.0	3011.7	3043.7	3080.4	3103.0	3114.9	3118.5	3118.5
17.5°	3075.7	3101.8	3129.1	3164.7	3193.1	3208.6	3212.2	3210.9
20°	3184.9	3209.8	3225.3	3247.8	3272.7	3290.5	3295.2	3295.2
22.5°	3309.5	3323.7	3326.1	3333.2	3353.3	3377.1	3387.8	3390.2
25°	3447.1	3450.7	3441.2	3441.2	3454.2	3476.8	3487.4	3488.7
27.5°	3625.1	3607.3	3583.6	3575.3	3583.6	3609.7	3622.8	3627.5
30°	3847.0	3804.3	3749.7	3720.1	3715.3	3749.7	3773.5	3777.0
32.5°	4100.9	4039.2	3966.9	3906.3	3890.9	3912.3	3940.7	3939.6
35°	4402.4	4328.8	4240.9	4163.8	4128.2	4149.6	4189.9	4194.7
37.5°	4750.0	4653.9	4553.1	4455.8	4400.0	4406.0	4448.6	4462.8
40°	5138.1	5013.5	4886.4	4755.9	4676.4	4661.0	4713.2	4721.5
42.5°	5553.4	5393.2	5233.0	5071.6	4969.5	4945.8	5006.3	5002.7
45°	5995.9	5791.8	5604.3	5426.3	5305.3	5269.7	5319.5	5319.5
47.5°	6471.8	6220.3	5997.2	5795.4	5663.7	5612.7	5660.2	5663.7
50°	6976.1	6709.1	6446.8	6222.6	6064.8	5999.5	6061.2	6070.7
52.5°	7478.1	7218.1	6953.6	6697.3	6506.2	6426.7	6497.9	6528.8
55°	7987.1	7732.0	7479.2	7228.9	7002.2	6908.5	6984.4	7023.6
57.5°	8524.7	8288.5	8047.7	7794.9	7576.5	7430.6	7511.3	7563.5
60°	9154.7	8953.0	8702.7	8423.8	8203.0	8054.7	8101.1	8147.3
62.5°	9653.1	9731.4	9519.1	9196.2	8912.7	8722.8	8767.9	8816.5
65°	9412.3	10215.6	10404.2	10077.9	9685.2	9389.7	9370.7	9395.6
67.5°	7867.2	9427.6	10565.6	10876.5	10547.9	10137.2	10061.3	10098.1
70°	5262.7	7206.3	9214.0	10709.2	11106.7	10947.7	10872.9	10895.4
72.5°	2527.5	4197.1	6251.0	8238.6	9449.0	10004.4	10182.4	10269.0
75°	924.3	1666.0	3012.8	4540.0	5481.0	6344.9	6908.5	7138.7
77.5°	557.7	672.8	962.4	1448.9	1641.1	1836.9	1760.9	1798.9
80°	413.0	466.4	528.0	593.3	614.7	614.7	591.0	571.9
82.5°	289.5	324.0	353.6	389.2	398.7	380.9	313.2	249.2
85°	186.3	201.7	214.8	237.3	231.4	220.8	148.3	131.8
87.5°	85.4	97.3	102.1	112.7	108.0	103.2	73.6	61.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)