

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: P191794

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191794
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23977 lumens
Efficiency: N/A
Efficacy: 124.2 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): 193
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

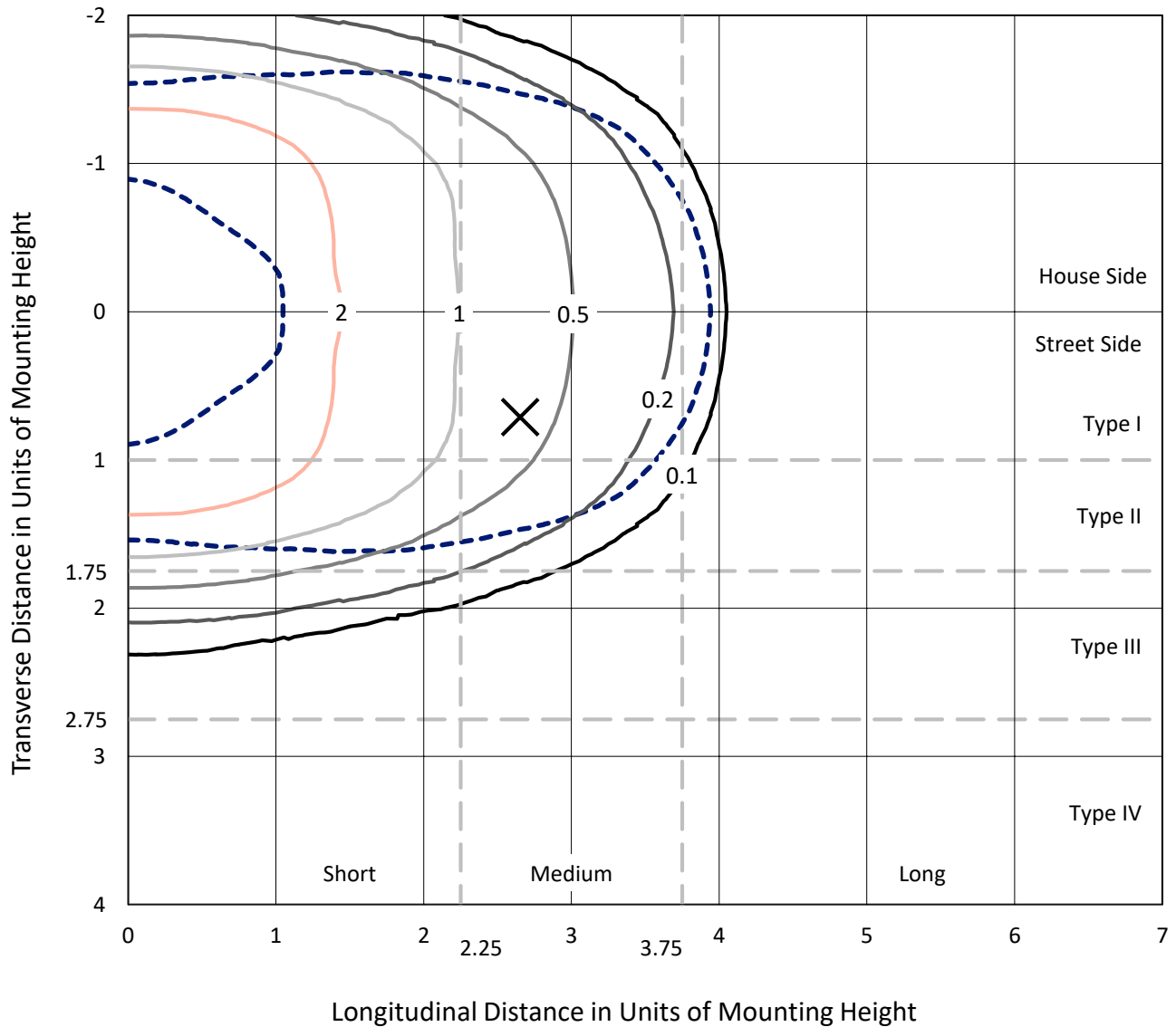


REPORT NUMBER: P191794

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

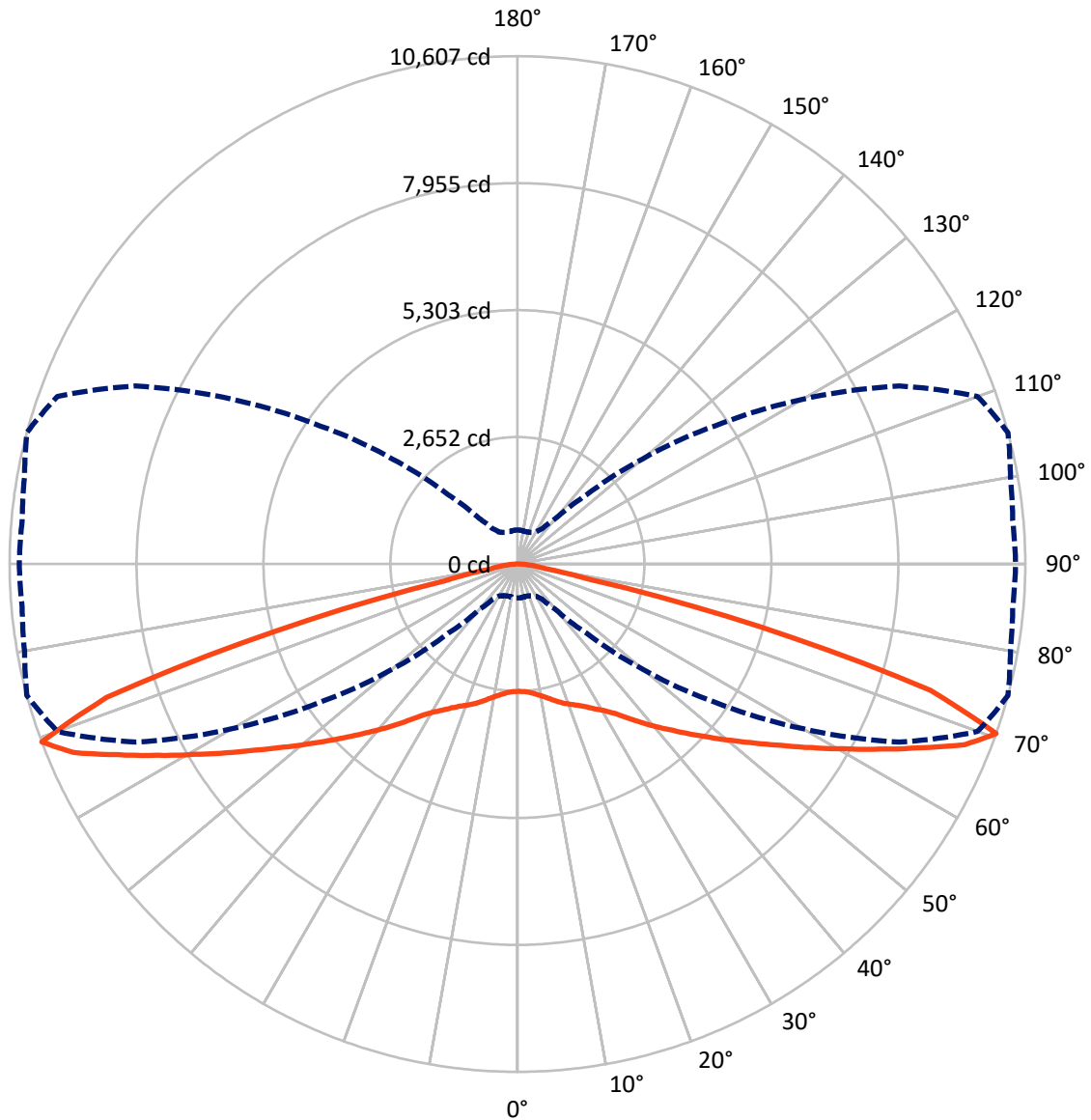


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P191794

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191794

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11988.5	0.0	11988.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11988.5	0.0	11988.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23977.0	0.0	23977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.1
10°-20°	792.6	3.3
20°-30°	1491.7	6.2
30°-40°	2641.6	11.0
40°-50°	4417.5	18.4
50°-60°	6155.8	25.7
60°-70°	5708.6	23.8
70°-80°	2275.0	9.5
80°-90°	239.1	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°	23977.0	100.0
0°-180°	23977.0	100.0



REPORT NUMBER: P191794

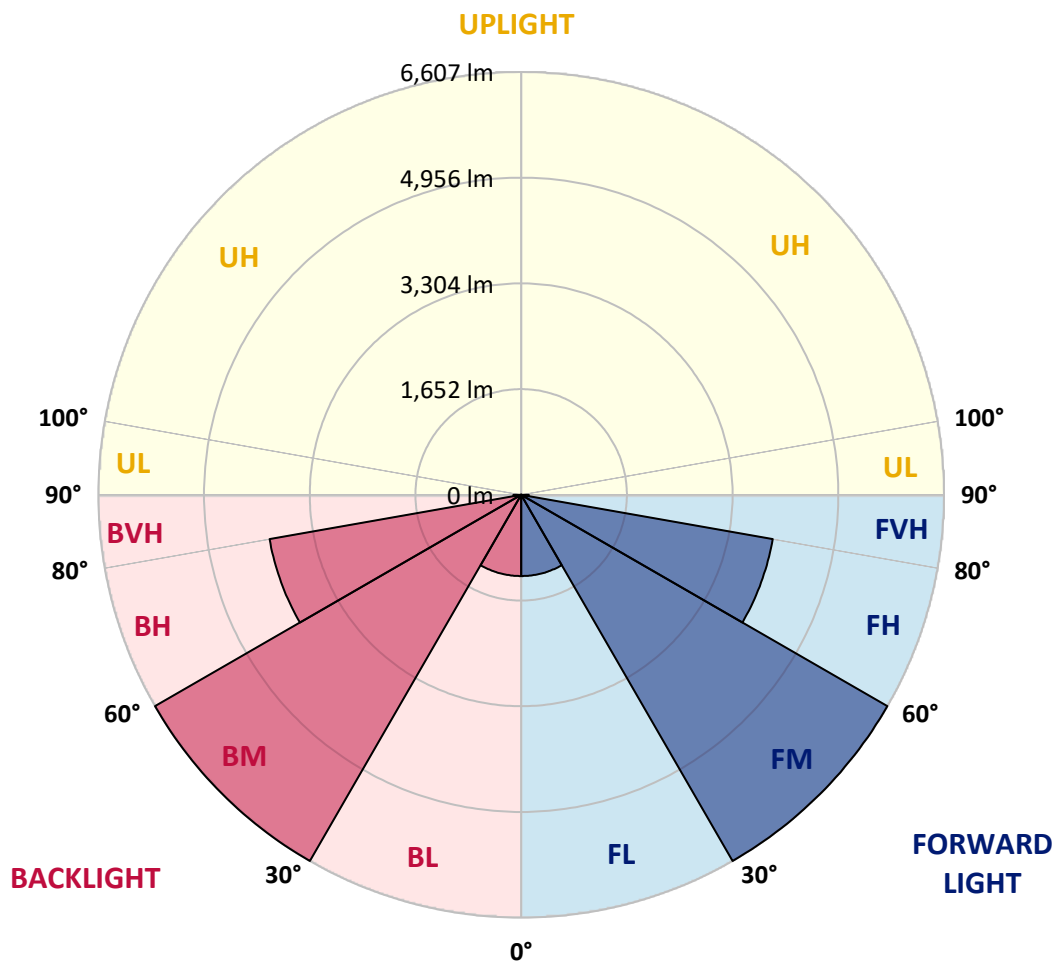
CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.7	5.3			
FM	(30°-60°)	6607.5	27.6			
FH	(60°-80°)	3991.8	16.6			G2/5000
FVH	(80°-90°)	119.6	0.5			G2/225
BL	(0°-30°)	1269.7	5.3	B3/2500		
BM	(30°-60°)	6607.5	27.6	B4/8500		
BH	(60°-80°)	3991.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	119.6	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: P191794

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6
2.5°	2655.1	2652.8	2655.1	2653.9	2656.2	2656.2	2658.5	2663.0	2663.0	2666.4	2665.3
5°	2629.0	2627.9	2631.3	2634.7	2638.1	2644.9	2651.7	2661.9	2669.8	2675.5	2681.1
7.5°	2578.0	2578.0	2582.6	2590.5	2598.4	2613.1	2629.0	2649.4	2669.8	2686.8	2701.5
10°	2536.1	2538.4	2544.0	2557.6	2571.2	2593.9	2615.4	2644.9	2673.2	2701.5	2724.2
12.5°	2511.2	2514.6	2524.8	2545.2	2567.8	2598.4	2631.3	2668.7	2700.4	2734.4	2757.1
15°	2519.1	2521.4	2536.1	2561.0	2590.5	2629.0	2673.2	2717.4	2754.8	2791.1	2821.7
17.5°	2563.3	2566.7	2583.7	2612.0	2642.6	2687.9	2735.5	2785.4	2831.9	2872.6	2910.0
20°	2642.6	2646.0	2667.5	2698.1	2734.4	2780.9	2828.5	2880.6	2932.7	2975.8	3017.7
22.5°	2754.8	2760.5	2780.9	2811.5	2852.3	2902.1	2958.8	3014.3	3064.2	3103.8	3141.2
25°	2902.1	2914.6	2933.8	2967.8	3010.9	3056.2	3117.4	3174.1	3221.7	3259.1	3286.3
27.5°	3110.6	3127.6	3142.3	3175.2	3217.1	3260.2	3321.4	3371.3	3416.6	3452.8	3473.2
30°	3387.1	3404.1	3418.8	3450.6	3489.1	3529.9	3587.7	3631.9	3660.2	3688.5	3687.4
32.5°	3722.5	3740.7	3746.3	3780.3	3820.0	3864.2	3916.3	3941.3	3963.9	3967.3	3946.9
35°	4097.6	4106.7	4129.4	4174.7	4220.0	4256.3	4306.1	4318.6	4318.6	4301.6	4256.3
37.5°	4509.0	4514.6	4546.4	4597.4	4643.8	4681.2	4715.2	4740.2	4727.7	4691.4	4615.5
40°	4960.0	4970.2	5015.5	5060.8	5113.0	5148.1	5184.4	5188.9	5176.4	5123.2	5020.1
42.5°	5390.6	5399.7	5445.0	5516.4	5584.4	5633.1	5667.1	5673.9	5634.2	5585.5	5457.5
45°	5761.2	5785.0	5843.9	5927.7	6026.3	6095.5	6141.9	6161.2	6126.1	6062.6	5914.1
47.5°	6054.7	6078.5	6162.3	6262.0	6384.4	6496.6	6573.7	6614.5	6605.4	6557.8	6395.8
50°	6270.0	6292.6	6383.3	6505.7	6648.5	6787.8	6919.3	7016.7	7050.7	7029.2	6880.8
52.5°	6294.9	6332.3	6438.8	6603.1	6789.0	6979.3	7166.3	7331.8	7444.0	7461.0	7351.0
55°	5947.0	5984.4	6131.7	6375.4	6651.9	6962.3	7261.5	7540.3	7761.3	7874.6	7816.8
57.5°	5126.6	5193.4	5348.7	5634.2	6041.1	6505.7	6982.7	7478.0	7927.8	8228.1	8285.9
60°	3928.8	4008.1	4164.5	4468.2	4921.5	5475.6	6112.5	6844.5	7638.9	8314.2	8717.7
62.5°	2520.2	2595.0	2759.3	3023.4	3392.8	3993.4	4676.7	5545.9	6613.3	7679.7	8640.6
65°	1295.2	1336.0	1422.2	1581.9	1869.8	2318.5	2931.6	3798.5	5018.9	6334.6	7723.9
67.5°	820.4	828.4	847.6	870.3	944.0	1099.2	1384.8	1925.3	2929.3	4301.6	5927.7
70°	709.4	709.4	700.3	696.9	706.0	727.5	771.7	897.5	1236.3	2042.0	3418.8
72.5°	649.3	642.5	626.7	614.2	611.9	611.9	621.0	640.3	694.6	831.8	1338.3
75°	598.3	579.1	557.5	542.8	537.1	531.5	530.3	533.7	545.1	566.6	639.1
77.5°	536.0	511.1	486.1	471.4	464.6	456.7	449.9	441.9	436.3	443.1	474.8
80°	461.2	432.9	413.6	404.6	397.8	386.4	371.7	358.1	345.6	343.4	362.6
82.5°	371.7	338.8	340.0	343.4	330.9	315.0	299.2	284.4	262.9	251.6	262.9
85°	300.3	283.3	275.4	296.9	278.8	255.0	230.0	204.0	170.0	142.8	155.2
87.5°	116.7	116.7	174.5	268.6	241.4	197.2	168.8	143.9	89.5	69.1	70.3
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: P191794

CATALOG NUMBER: GLEON-AF-06-LED-E1-RW-7050-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6	2659.6
2.5°	2664.1	2666.4	2665.3	2664.1	2664.1	2663.0	2664.1	2664.1
5°	2684.5	2690.2	2690.2	2692.5	2692.5	2693.6	2694.7	2693.6
7.5°	2715.1	2725.3	2732.1	2740.1	2741.2	2742.3	2744.6	2742.3
10°	2745.7	2766.1	2780.9	2795.6	2802.4	2804.7	2806.9	2806.9
12.5°	2784.3	2812.6	2838.7	2864.7	2877.2	2884.0	2884.0	2888.5
15°	2847.7	2876.0	2906.6	2941.8	2963.3	2974.6	2978.0	2978.0
17.5°	2937.2	2962.2	2988.2	3022.2	3049.4	3064.2	3067.6	3066.4
20°	3041.5	3065.3	3080.0	3101.6	3125.4	3142.3	3146.9	3146.9
22.5°	3160.5	3174.1	3176.3	3183.1	3202.4	3225.1	3235.3	3237.5
25°	3291.9	3295.3	3286.3	3286.3	3298.7	3320.3	3330.5	3331.6
27.5°	3461.9	3444.9	3422.2	3414.3	3422.2	3447.2	3459.6	3464.2
30°	3673.8	3633.0	3580.9	3552.6	3548.0	3580.9	3603.6	3607.0
32.5°	3916.3	3857.4	3788.3	3730.5	3715.7	3736.1	3763.3	3762.2
35°	4204.2	4133.9	4050.0	3976.4	3942.4	3962.8	4001.3	4005.8
37.5°	4536.2	4444.4	4348.1	4255.1	4201.9	4207.6	4248.3	4261.9
40°	4906.7	4787.7	4666.5	4541.8	4465.9	4451.2	4501.0	4509.0
42.5°	5303.4	5150.4	4997.4	4843.3	4745.8	4723.2	4780.9	4777.5
45°	5726.0	5531.1	5352.1	5182.1	5066.5	5032.5	5080.1	5080.1
47.5°	6180.4	5940.2	5727.2	5534.5	5408.7	5360.0	5405.3	5408.7
50°	6662.1	6407.1	6156.6	5942.5	5791.8	5729.4	5788.4	5797.4
52.5°	7141.4	6893.2	6640.5	6395.8	6213.3	6137.4	6205.4	6234.8
55°	7627.5	7383.9	7142.5	6903.4	6687.0	6597.5	6670.0	6707.4
57.5°	8140.9	7915.4	7685.3	7444.0	7235.4	7096.1	7173.1	7223.0
60°	8742.6	8550.0	8310.9	8044.5	7833.8	7692.1	7736.3	7780.5
62.5°	9218.5	9293.3	9090.5	8782.3	8511.4	8330.1	8373.2	8419.6
65°	8988.5	9755.7	9935.9	9624.2	9249.1	8967.0	8948.8	8972.6
67.5°	7513.1	9003.2	10090.0	10386.9	10073.0	9680.9	9608.4	9643.5
70°	5025.7	6881.9	8799.3	10227.1	10606.7	10454.9	10383.5	10405.0
72.5°	2413.7	4008.1	5969.7	7867.8	9023.6	9554.0	9723.9	9806.7
75°	882.8	1591.0	2877.2	4335.6	5234.2	6059.2	6597.5	6817.3
77.5°	532.6	642.5	919.0	1383.6	1567.2	1754.2	1681.7	1717.9
80°	394.4	445.3	504.3	566.6	587.0	587.0	564.3	546.2
82.5°	276.5	309.4	337.7	371.7	380.8	363.8	299.2	238.0
85°	177.9	192.6	205.1	226.6	221.0	210.8	141.6	125.8
87.5°	81.6	92.9	97.5	107.7	103.1	98.6	70.3	58.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)