

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: P193544

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193544
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23992 lumens
Efficiency: N/A
Efficacy: 96.4 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

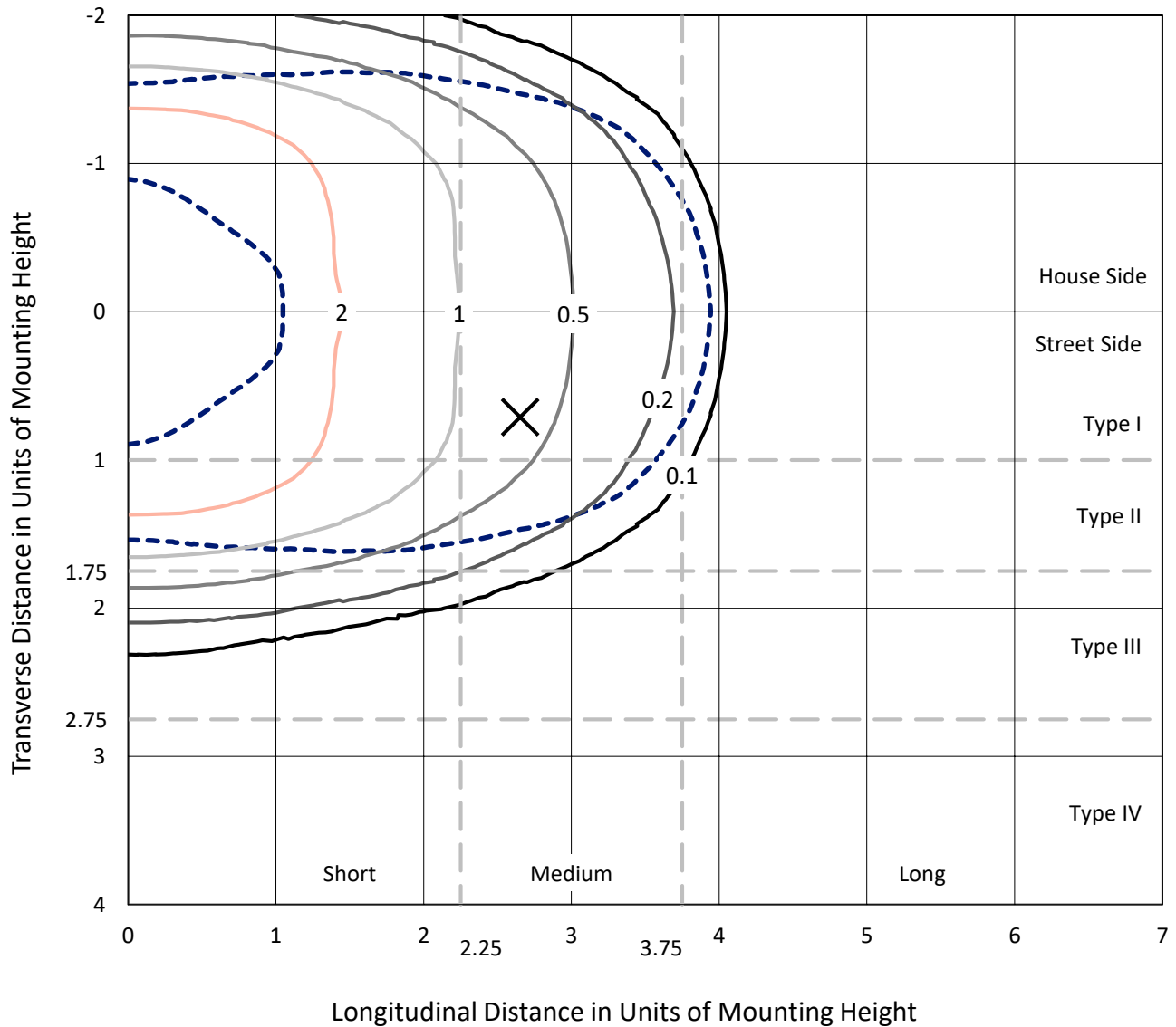


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

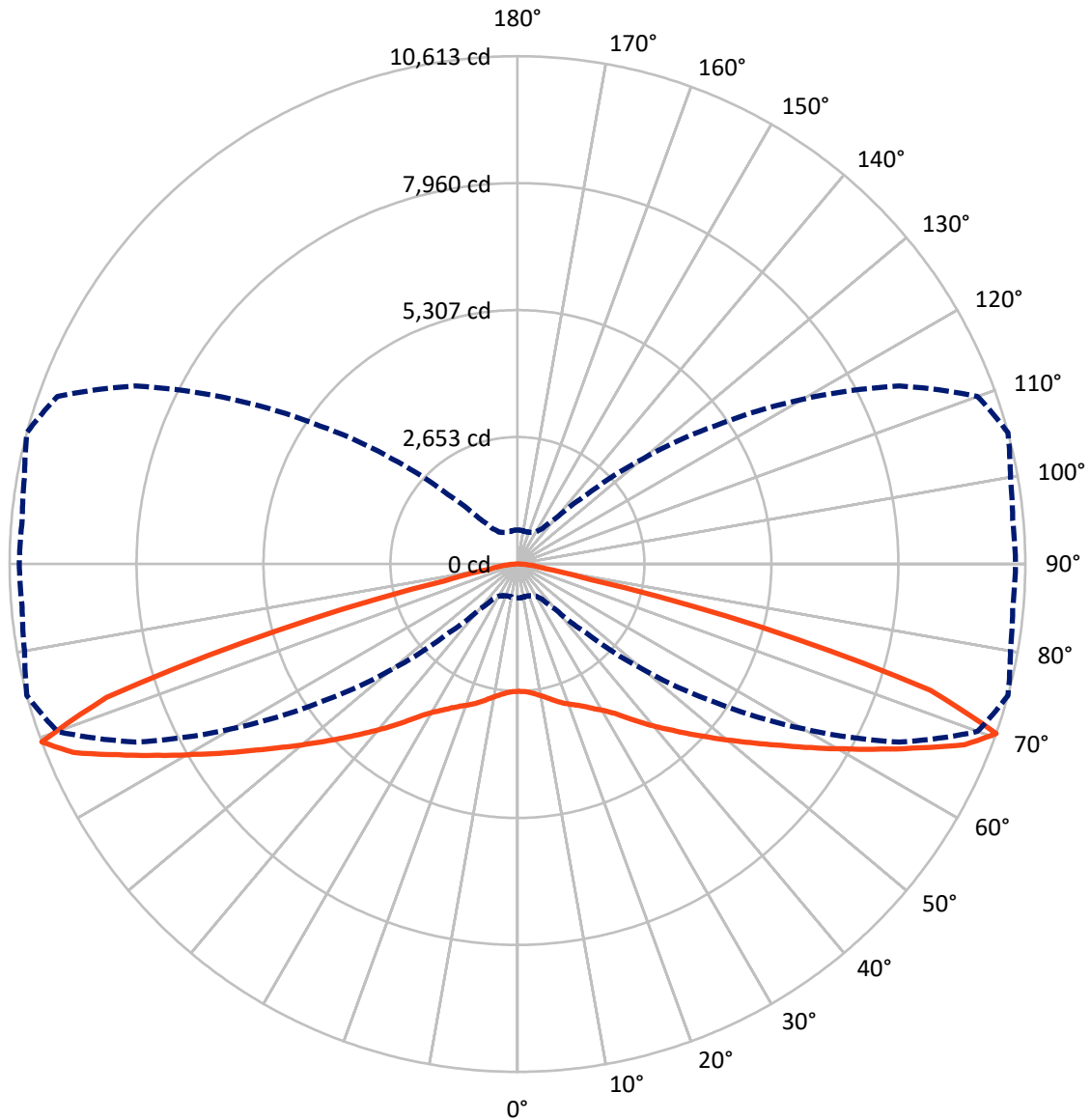


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	11996.0	0.0	11996.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11996.0	0.0	11996.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23992.0	0.0	23992.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.1
10°-20°	793.1	3.3
20°-30°	1492.7	6.2
30°-40°	2643.2	11.0
40°-50°	4420.3	18.4
50°-60°	6159.7	25.7
60°-70°	5712.1	23.8
70°-80°	2276.5	9.5
80°-90°	239.3	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°	23992.0	100.0
0°-180°	23992.0	100.0



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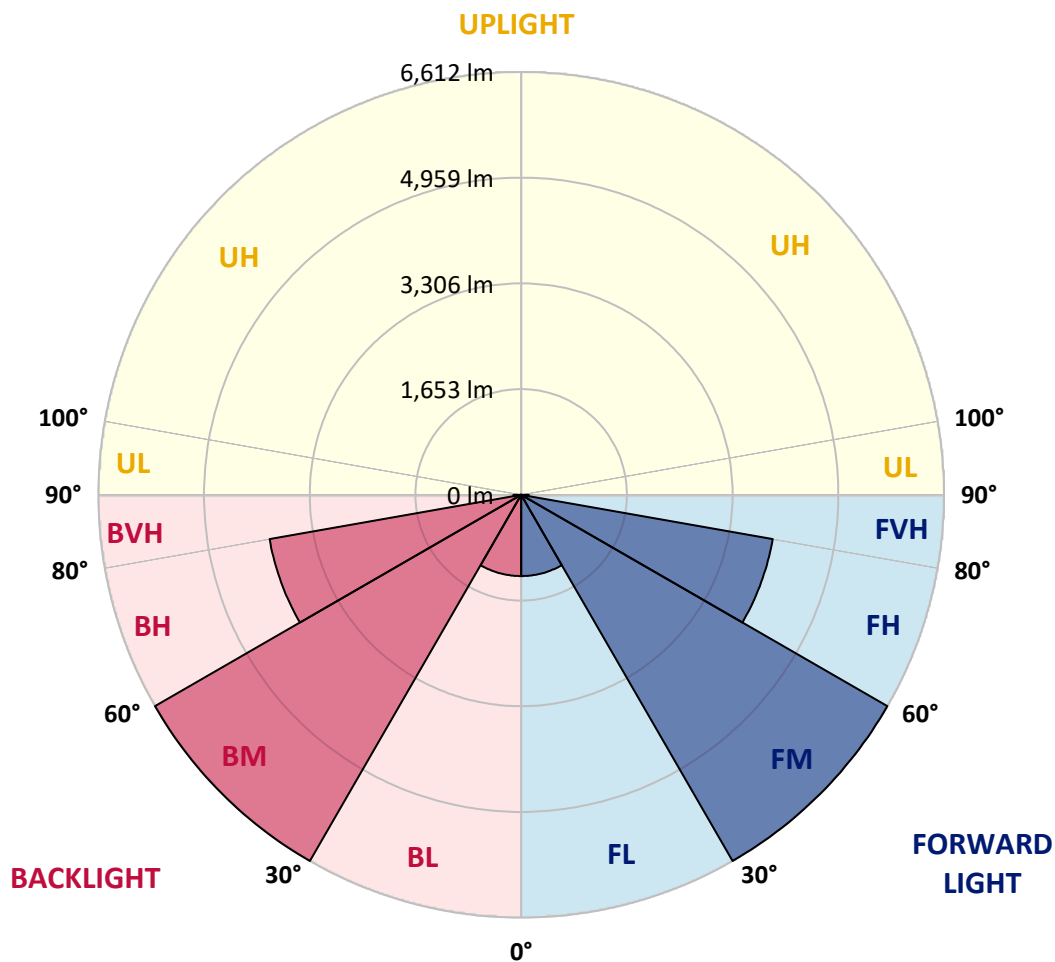
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.5	5.3			
FM	(30°-60°)	6611.6	27.6			
FH	(60°-80°)	3994.3	16.6			G2/5000
FVH	(80°-90°)	119.6	0.5			G2/225
BL	(0°-30°)	1270.5	5.3	B3/2500		
BM	(30°-60°)	6611.6	27.6	B4/8500		
BH	(60°-80°)	3994.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3
2.5°	2656.7	2654.5	2656.7	2655.6	2657.9	2657.9	2660.1	2664.7	2664.7	2668.1	2666.9
5°	2630.7	2629.5	2632.9	2636.3	2639.7	2646.5	2653.3	2663.5	2671.5	2677.1	2682.8
7.5°	2579.6	2579.6	2584.2	2592.1	2600.0	2614.8	2630.7	2651.1	2671.5	2688.5	2703.2
10°	2537.7	2539.9	2545.6	2559.2	2572.8	2595.5	2617.0	2646.5	2674.9	2703.2	2725.9
12.5°	2512.7	2516.1	2526.3	2546.7	2569.4	2600.0	2632.9	2670.3	2702.1	2736.1	2758.8
15°	2520.7	2522.9	2537.7	2562.6	2592.1	2630.7	2674.9	2719.1	2756.5	2792.8	2823.4
17.5°	2564.9	2568.3	2585.3	2613.6	2644.3	2689.6	2737.2	2787.1	2833.6	2874.4	2911.9
20°	2644.3	2647.7	2669.2	2699.8	2736.1	2782.6	2830.2	2882.4	2934.5	2977.6	3019.6
22.5°	2756.5	2762.2	2782.6	2813.2	2854.0	2903.9	2960.6	3016.2	3066.1	3105.8	3143.2
25°	2903.9	2916.4	2935.7	2969.7	3012.8	3058.1	3119.4	3176.1	3223.7	3261.1	3288.3
27.5°	3112.6	3129.6	3144.3	3177.2	3219.2	3262.2	3323.5	3373.4	3418.7	3455.0	3475.4
30°	3389.2	3406.2	3421.0	3452.7	3491.3	3532.1	3589.9	3634.2	3662.5	3690.9	3689.7
32.5°	3724.9	3743.0	3748.7	3782.7	3822.4	3866.6	3918.8	3943.7	3966.4	3969.8	3949.4
35°	4100.2	4109.3	4131.9	4177.3	4222.7	4258.9	4308.8	4321.3	4321.3	4304.3	4258.9
37.5°	4511.8	4517.5	4549.2	4600.2	4646.7	4684.2	4718.2	4743.1	4730.6	4694.4	4618.4
40°	4963.1	4973.3	5018.7	5064.0	5116.2	5151.3	5187.6	5192.1	5179.7	5126.4	5023.2
42.5°	5394.0	5403.1	5448.4	5519.8	5587.9	5636.6	5670.7	5677.5	5637.8	5589.0	5460.9
45°	5764.8	5788.6	5847.5	5931.5	6030.1	6099.3	6145.8	6165.0	6129.9	6066.4	5917.8
47.5°	6058.4	6082.3	6166.2	6266.0	6388.4	6500.7	6577.8	6618.6	6609.5	6561.9	6399.8
50°	6273.9	6296.6	6387.3	6509.7	6652.6	6792.1	6923.6	7021.1	7055.1	7033.6	6885.1
52.5°	6298.8	6336.3	6442.8	6607.3	6793.2	6983.7	7170.8	7336.4	7448.6	7465.6	7355.6
55°	5950.7	5988.1	6135.6	6379.3	6656.0	6966.7	7266.1	7545.0	7766.1	7879.5	7821.7
57.5°	5129.8	5196.7	5352.0	5637.8	6044.8	6509.7	6987.1	7482.6	7932.8	8233.3	8291.1
60°	3931.2	4010.6	4167.1	4471.0	4924.5	5479.0	6116.3	6848.8	7643.6	8319.5	8723.1
62.5°	2521.8	2596.6	2761.1	3025.3	3394.9	3995.9	4679.6	5549.3	6617.5	7684.5	8646.0
65°	1296.1	1336.9	1423.0	1582.9	1870.9	2320.0	2933.4	3800.8	5022.1	6338.5	7728.7
67.5°	820.9	828.9	848.2	870.8	944.5	1099.9	1385.6	1926.5	2931.1	4304.3	5931.5
70°	709.8	709.8	700.8	697.4	706.4	728.0	772.2	898.1	1237.1	2043.3	3421.0
72.5°	649.7	642.9	627.0	614.6	612.3	612.3	621.4	640.7	695.1	832.3	1339.1
75°	598.7	579.4	557.9	543.1	537.5	531.8	530.7	534.1	545.4	567.0	639.5
77.5°	536.3	511.4	486.4	471.7	464.9	457.0	450.2	442.2	436.6	443.4	475.1
80°	461.5	433.2	413.9	404.8	398.0	386.7	371.9	358.3	345.8	343.6	362.8
82.5°	371.9	339.0	340.2	343.6	331.1	315.2	299.4	284.6	263.1	251.7	263.1
85°	300.5	283.5	275.5	297.1	278.9	255.1	230.2	204.1	170.1	142.9	155.3
87.5°	116.8	116.8	174.6	268.7	241.5	197.3	169.0	144.0	89.6	69.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3
2.5°	2665.8	2668.1	2666.9	2665.8	2665.8	2664.7	2665.8	2665.8
5°	2686.2	2691.9	2691.9	2694.2	2694.2	2695.3	2696.4	2695.3
7.5°	2716.8	2727.0	2733.8	2741.8	2742.9	2744.0	2746.3	2744.0
10°	2747.4	2767.9	2782.6	2797.3	2804.1	2806.4	2808.7	2808.7
12.5°	2786.0	2814.3	2840.4	2866.5	2879.0	2885.8	2885.8	2890.3
15°	2849.5	2877.8	2908.5	2943.6	2965.2	2976.5	2979.9	2979.9
17.5°	2939.1	2964.0	2990.1	3024.1	3051.3	3066.1	3069.5	3068.3
20°	3043.4	3067.2	3082.0	3103.5	3127.3	3144.3	3148.9	3148.9
22.5°	3162.5	3176.1	3178.3	3185.1	3204.4	3227.1	3237.3	3239.6
25°	3294.0	3297.4	3288.3	3288.3	3300.8	3322.3	3332.5	3333.7
27.5°	3464.1	3447.1	3424.4	3416.5	3424.4	3449.3	3461.8	3466.3
30°	3676.1	3635.3	3583.1	3554.8	3550.3	3583.1	3605.8	3609.2
32.5°	3918.8	3859.8	3790.6	3732.8	3718.1	3738.5	3765.7	3764.6
35°	4206.8	4136.5	4052.6	3978.9	3944.9	3965.3	4003.8	4008.3
37.5°	4539.0	4447.2	4350.8	4257.8	4204.5	4210.2	4251.0	4264.6
40°	4909.8	4790.7	4669.4	4544.7	4468.7	4454.0	4503.9	4511.8
42.5°	5306.7	5153.6	5000.5	4846.3	4748.8	4726.1	4783.9	4780.5
45°	5729.6	5534.6	5355.4	5185.3	5069.7	5035.7	5083.3	5083.3
47.5°	6184.3	5943.9	5730.7	5538.0	5412.1	5363.4	5408.7	5412.1
50°	6666.2	6411.1	6160.5	5946.2	5795.4	5733.0	5792.0	5801.1
52.5°	7145.9	6897.5	6644.7	6399.8	6217.2	6141.2	6209.3	6238.7
55°	7632.3	7388.5	7147.0	6907.7	6691.2	6601.6	6674.2	6711.6
57.5°	8146.0	7920.3	7690.1	7448.6	7240.0	7100.5	7177.6	7227.5
60°	8748.1	8555.3	8316.0	8049.6	7838.7	7696.9	7741.2	7785.4
62.5°	9224.3	9299.1	9096.2	8787.8	8516.8	8335.3	8378.4	8424.9
65°	8994.1	9761.8	9942.1	9630.2	9254.9	8972.6	8954.4	8978.2
67.5°	7517.8	9008.9	10096.3	10393.4	10079.3	9686.9	9614.4	9649.5
70°	5028.9	6886.2	8804.8	10233.5	10613.3	10461.4	10390.0	10411.5
72.5°	2415.2	4010.6	5973.4	7872.7	9029.3	9559.9	9730.0	9812.8
75°	883.3	1592.0	2879.0	4338.3	5237.5	6063.0	6601.6	6821.6
77.5°	532.9	642.9	919.6	1384.5	1568.2	1755.3	1682.7	1719.0
80°	394.6	445.6	504.6	567.0	587.4	587.4	564.7	546.5
82.5°	276.7	309.6	337.9	371.9	381.0	364.0	299.4	238.1
85°	178.0	192.8	205.2	226.8	221.1	210.9	141.7	125.9
87.5°	81.6	93.0	97.5	107.7	103.2	98.6	70.3	59.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)