

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: P191803

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191803
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-05-LED-E1-RW-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24570 lumens
Efficiency: N/A
Efficacy: 117.0 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

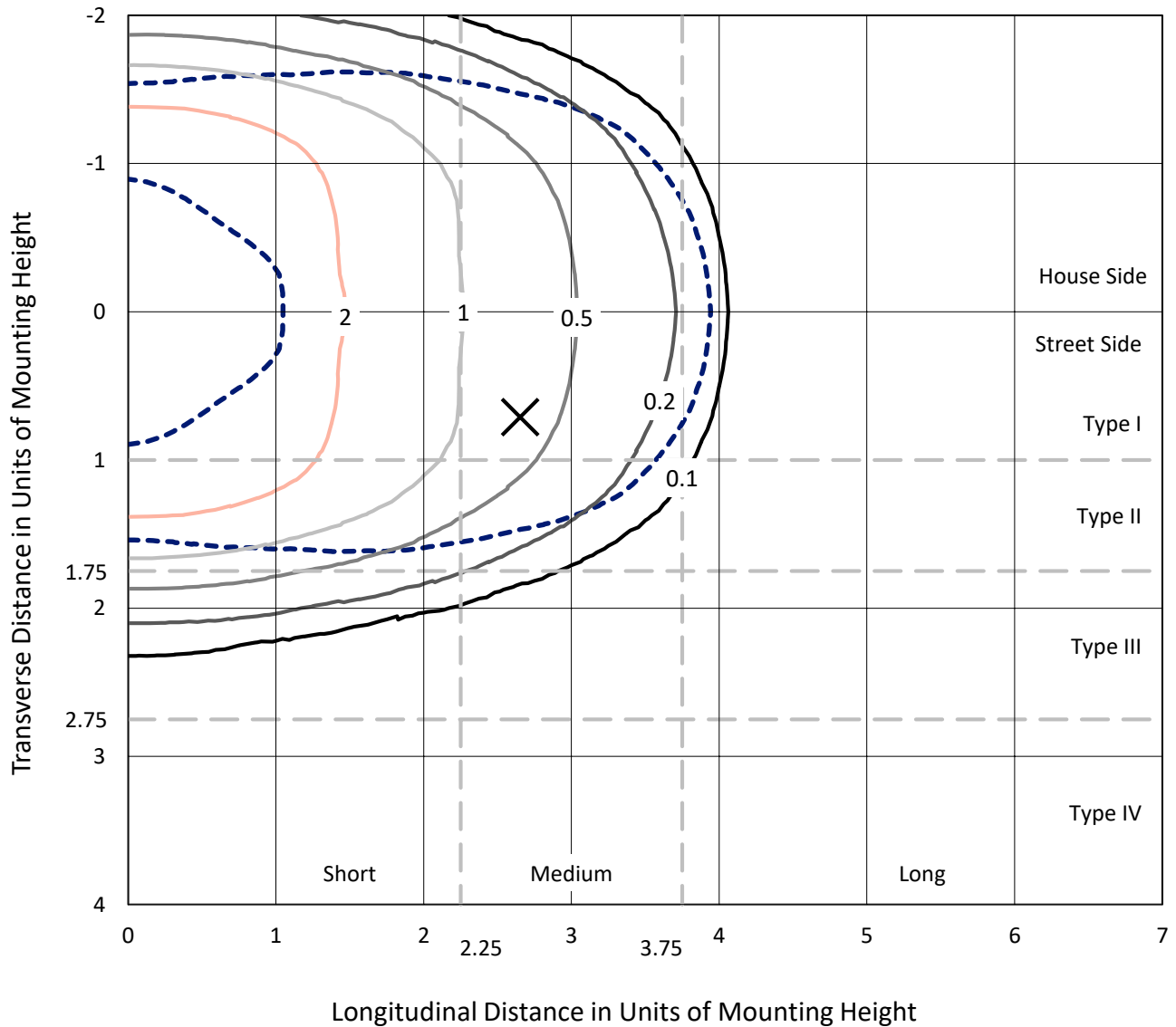
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

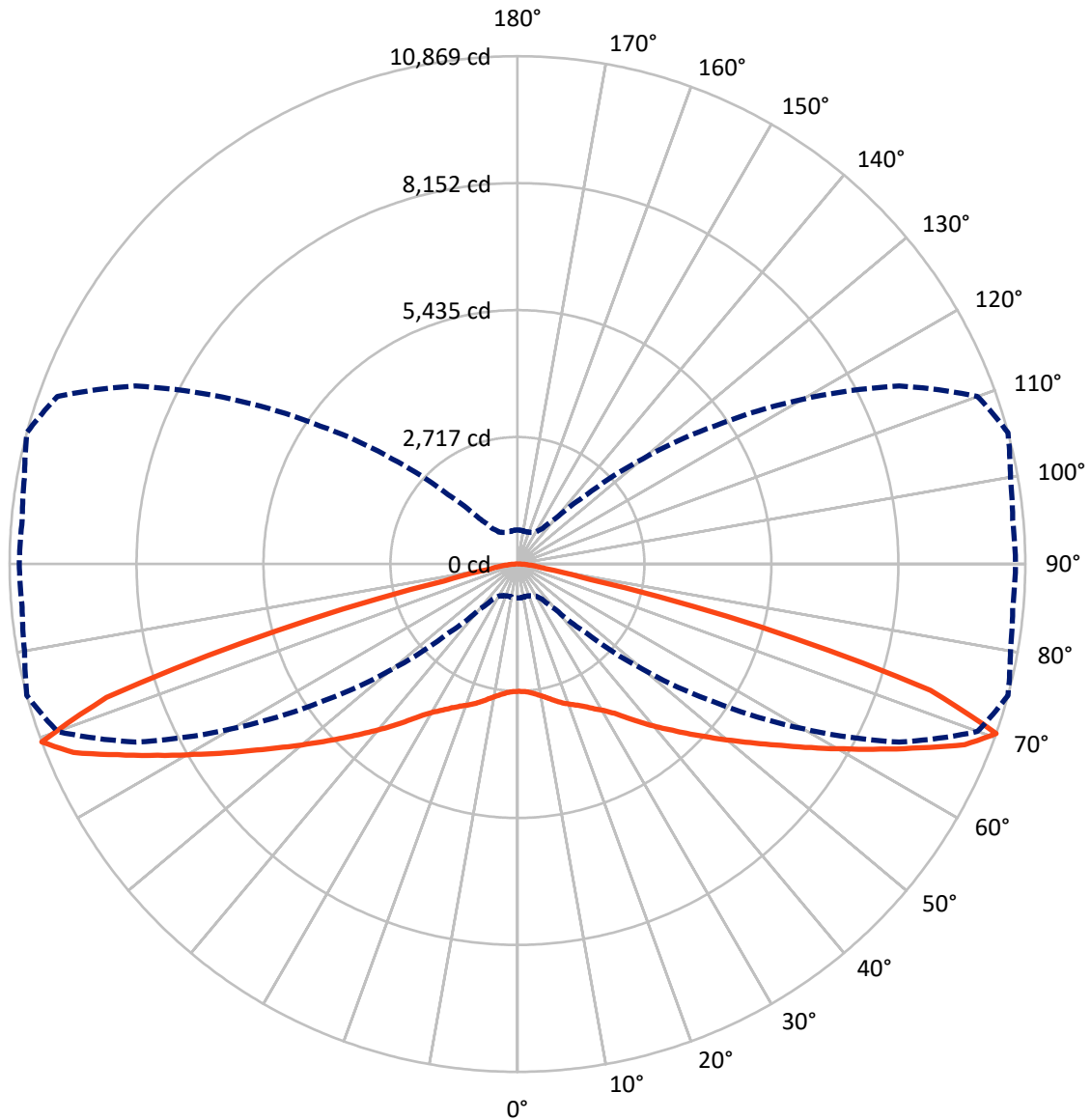
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	12285.0	0.0	12285.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12285.0	0.0	12285.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24570.0	0.0	24570.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	1.1
10°-20°	812.2	3.3
20°-30°	1528.6	6.2
30°-40°	2706.9	11.0
40°-50°	4526.8	18.4
50°-60°	6308.1	25.7
60°-70°	5849.7	23.8
70°-80°	2331.3	9.5
80°-90°	245.1	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°	24570.0	100.0
0°-180°	24570.0	100.0



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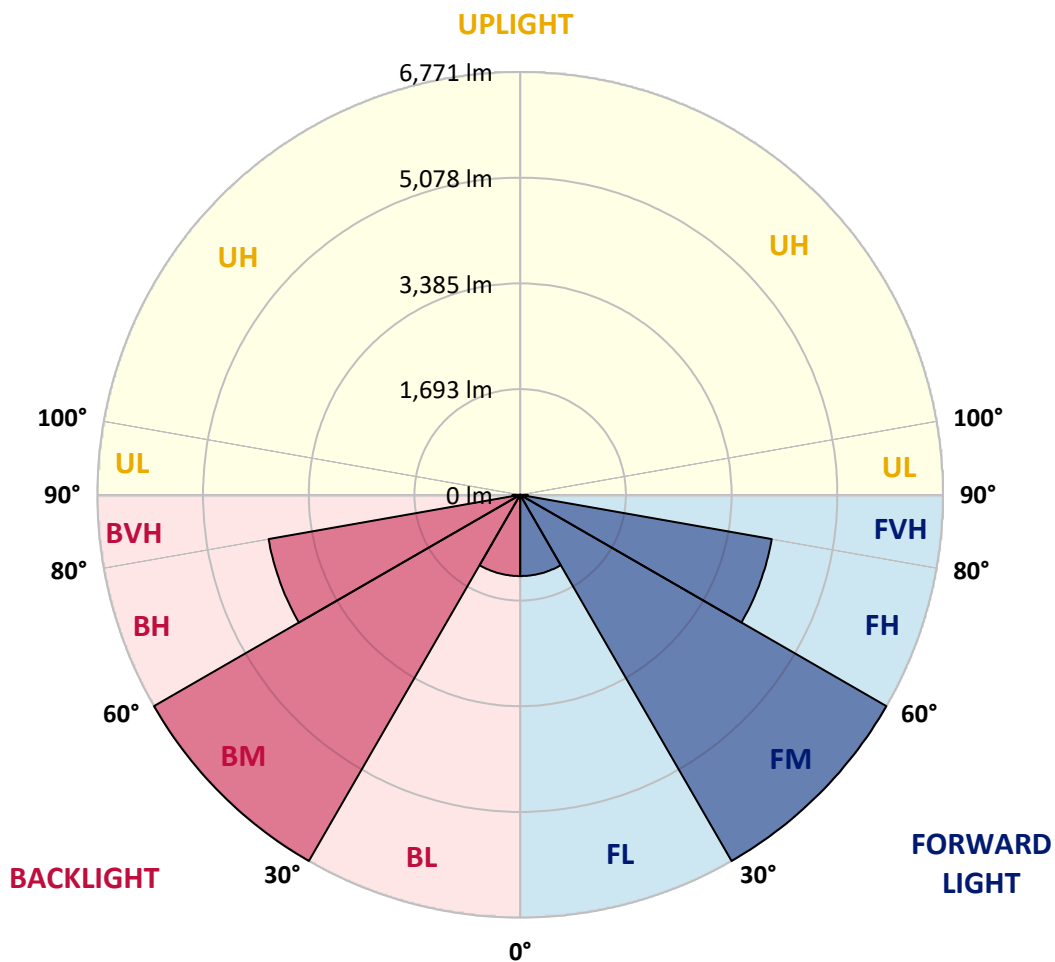
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.1	5.3			
FM	(30°-60°)	6770.9	27.6			
FH	(60°-80°)	4090.5	16.6			G2/5000
FVH	(80°-90°)	122.5	0.5			G2/225
BL	(0°-30°)	1301.1	5.3	B3/2500		
BM	(30°-60°)	6770.9	27.6	B4/8500		
BH	(60°-80°)	4090.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.5	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°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	2720.7	2718.4	2720.7	2719.6	2721.9	2721.9	2724.2	2728.9	2728.9	2732.4	2731.2
5°	2694.0	2692.9	2696.4	2699.8	2703.3	2710.3	2717.3	2727.7	2735.8	2741.6	2747.4
7.5°	2641.8	2641.8	2646.4	2654.6	2662.7	2677.8	2694.0	2714.9	2735.8	2753.3	2768.4
10°	2598.8	2601.1	2606.9	2620.9	2634.8	2658.0	2680.1	2710.3	2739.3	2768.4	2791.6
12.5°	2573.3	2576.7	2587.2	2608.1	2631.3	2662.7	2696.4	2734.7	2767.2	2802.0	2825.3
15°	2581.4	2583.7	2598.8	2624.4	2654.6	2694.0	2739.3	2784.6	2822.9	2860.1	2891.4
17.5°	2626.7	2630.2	2647.6	2676.6	2708.0	2754.4	2803.2	2854.3	2901.9	2943.7	2982.0
20°	2708.0	2711.5	2733.5	2764.9	2802.0	2849.6	2898.4	2951.8	3005.2	3049.4	3092.3
22.5°	2822.9	2828.7	2849.6	2881.0	2922.8	2973.9	3031.9	3088.8	3139.9	3180.6	3218.9
25°	2973.9	2986.7	3006.4	3041.2	3085.4	3131.8	3194.5	3252.6	3301.4	3339.7	3367.5
27.5°	3187.6	3205.0	3220.1	3253.7	3296.7	3340.8	3403.5	3454.6	3501.1	3538.2	3559.1
30°	3470.9	3488.3	3503.4	3535.9	3575.4	3617.2	3676.4	3721.7	3750.7	3779.8	3778.6
32.5°	3814.6	3833.2	3839.0	3873.8	3914.5	3959.8	4013.2	4038.7	4062.0	4065.4	4044.5
35°	4199.0	4208.3	4231.5	4277.9	4324.4	4361.5	4412.6	4425.4	4425.4	4408.0	4361.5
37.5°	4620.5	4626.3	4658.8	4711.1	4758.7	4797.0	4831.8	4857.4	4844.6	4807.5	4729.7
40°	5082.7	5093.1	5139.6	5186.0	5239.4	5275.4	5312.6	5317.2	5304.5	5249.9	5144.2
42.5°	5523.9	5533.2	5579.7	5652.8	5722.5	5772.4	5807.3	5814.2	5773.6	5723.7	5592.4
45°	5903.6	5928.0	5988.4	6074.3	6175.4	6246.2	6293.8	6313.6	6277.6	6212.5	6060.4
47.5°	6204.4	6228.8	6314.7	6416.9	6542.3	6657.3	6736.2	6778.0	6768.8	6720.0	6553.9
50°	6425.0	6448.3	6541.2	6666.6	6812.9	6955.7	7090.4	7190.3	7225.1	7203.1	7050.9
52.5°	6450.6	6488.9	6598.1	6766.4	6956.9	7152.0	7343.6	7513.1	7628.1	7645.5	7532.8
55°	6094.1	6132.4	6283.4	6533.0	6816.4	7134.5	7441.1	7726.8	7953.2	8069.3	8010.1
57.5°	5253.4	5321.9	5481.0	5773.6	6190.5	6666.6	7155.4	7662.9	8123.9	8431.6	8490.8
60°	4026.0	4107.2	4267.5	4578.7	5043.2	5611.0	6263.6	7013.8	7827.8	8519.9	8933.3
62.5°	2582.6	2659.2	2827.6	3098.1	3476.7	4092.1	4792.4	5683.0	6776.9	7869.6	8854.3
65°	1327.3	1369.1	1457.3	1621.1	1916.0	2375.9	3004.1	3892.4	5143.0	6491.2	7914.9
67.5°	840.7	848.9	868.6	891.8	967.3	1126.4	1419.0	1972.9	3001.8	4408.0	6074.3
70°	726.9	726.9	717.6	714.2	723.4	745.5	790.8	919.7	1266.9	2092.5	3503.4
72.5°	665.4	658.4	642.2	629.4	627.1	627.1	636.3	656.1	711.8	852.3	1371.4
75°	613.1	593.4	571.3	556.2	550.4	544.6	543.5	546.9	558.5	580.6	654.9
77.5°	549.3	523.7	498.2	483.1	476.1	468.0	461.0	452.9	447.1	454.0	486.6
80°	472.6	443.6	423.8	414.6	407.6	396.0	380.9	366.9	354.2	351.8	371.6
82.5°	380.9	347.2	348.4	351.8	339.1	322.8	306.6	291.5	269.4	257.8	269.4
85°	307.7	290.3	282.2	304.2	285.7	261.3	235.7	209.0	174.2	146.3	159.1
87.5°	119.6	119.6	178.8	275.2	247.3	202.1	173.0	147.5	91.7	70.8	72.0
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°	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4	2725.4
2.5°	2730.0	2732.4	2731.2	2730.0	2730.0	2728.9	2730.0	2730.0
5°	2750.9	2756.7	2756.7	2759.1	2759.1	2760.2	2761.4	2760.2
7.5°	2782.3	2792.7	2799.7	2807.8	2809.0	2810.2	2812.5	2810.2
10°	2813.6	2834.5	2849.6	2864.7	2871.7	2874.0	2876.3	2876.3
12.5°	2853.1	2882.2	2908.9	2935.6	2948.3	2955.3	2955.3	2960.0
15°	2918.1	2947.2	2978.5	3014.5	3036.6	3048.2	3051.7	3051.7
17.5°	3009.9	3035.4	3062.1	3097.0	3124.8	3139.9	3143.4	3142.3
20°	3116.7	3141.1	3156.2	3178.3	3202.6	3220.1	3224.7	3224.7
22.5°	3238.6	3252.6	3254.9	3261.9	3281.6	3304.8	3315.3	3317.6
25°	3373.3	3376.8	3367.5	3367.5	3380.3	3402.4	3412.8	3414.0
27.5°	3547.5	3530.1	3506.9	3498.8	3506.9	3532.4	3545.2	3549.9
30°	3764.7	3722.9	3669.5	3640.4	3635.8	3669.5	3692.7	3696.2
32.5°	4013.2	3952.8	3882.0	3822.7	3807.6	3828.5	3856.4	3855.3
35°	4308.1	4236.1	4150.2	4074.7	4039.9	4060.8	4100.3	4104.9
37.5°	4648.4	4554.3	4455.6	4360.4	4305.8	4311.6	4353.4	4367.4
40°	5028.1	4906.2	4781.9	4654.2	4576.4	4561.3	4612.4	4620.5
42.5°	5434.5	5277.7	5121.0	4963.1	4863.2	4840.0	4899.2	4895.7
45°	5867.6	5667.9	5484.4	5310.3	5191.8	5157.0	5205.8	5205.8
47.5°	6333.3	6087.1	5868.8	5671.4	5542.5	5492.6	5539.0	5542.5
50°	6826.8	6565.5	6308.9	6089.4	5935.0	5871.1	5931.5	5940.8
52.5°	7318.0	7063.7	6804.8	6553.9	6367.0	6289.2	6358.8	6389.0
55°	7816.2	7566.5	7319.2	7074.2	6852.4	6760.6	6834.9	6873.3
57.5°	8342.2	8111.1	7875.4	7628.1	7414.4	7271.6	7350.5	7401.6
60°	8958.8	8761.4	8516.4	8243.5	8027.5	7882.4	7927.7	7972.9
62.5°	9446.5	9523.2	9315.3	8999.5	8721.9	8536.1	8580.3	8627.9
65°	9210.8	9997.0	10181.6	9862.2	9477.9	9188.7	9170.2	9194.5
67.5°	7698.9	9225.9	10339.5	10643.8	10322.1	9920.3	9846.0	9882.0
70°	5150.0	7052.1	9016.9	10480.0	10869.0	10713.4	10640.3	10662.3
72.5°	2473.4	4107.2	6117.3	8062.4	9246.8	9790.3	9964.4	10049.2
75°	904.6	1630.4	2948.3	4442.8	5363.7	6209.0	6760.6	6985.9
77.5°	545.8	658.4	941.8	1417.9	1606.0	1797.6	1723.3	1760.4
80°	404.1	456.4	516.7	580.6	601.5	601.5	578.3	559.7
82.5°	283.3	317.0	346.0	380.9	390.2	372.8	306.6	243.9
85°	182.3	197.4	210.2	232.2	226.4	216.0	145.2	128.9
87.5°	83.6	95.2	99.9	110.3	105.7	101.0	72.0	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)