

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: P191812

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191812
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24544 lumens
Efficiency: N/A
Efficacy: 109.1 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

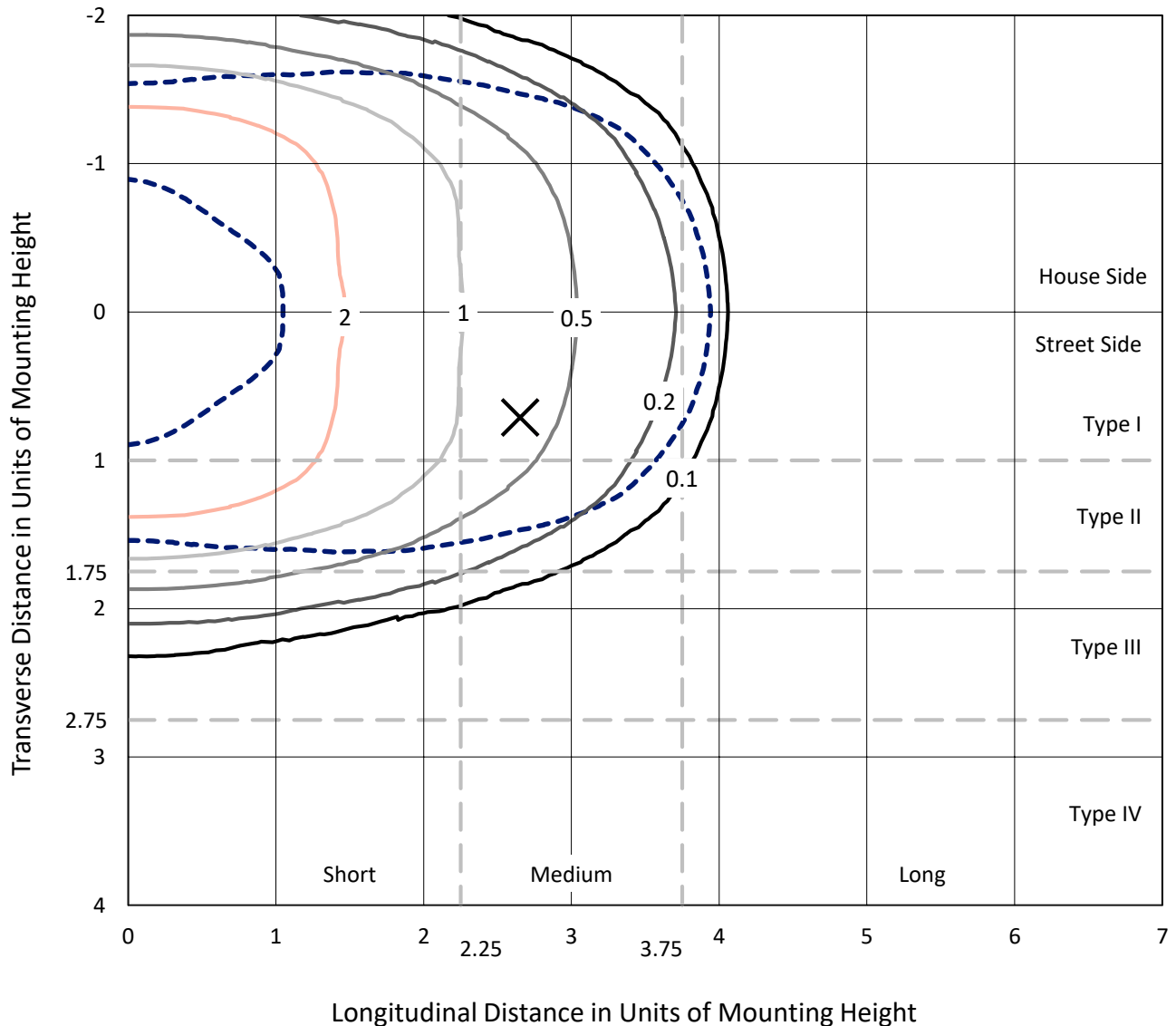
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

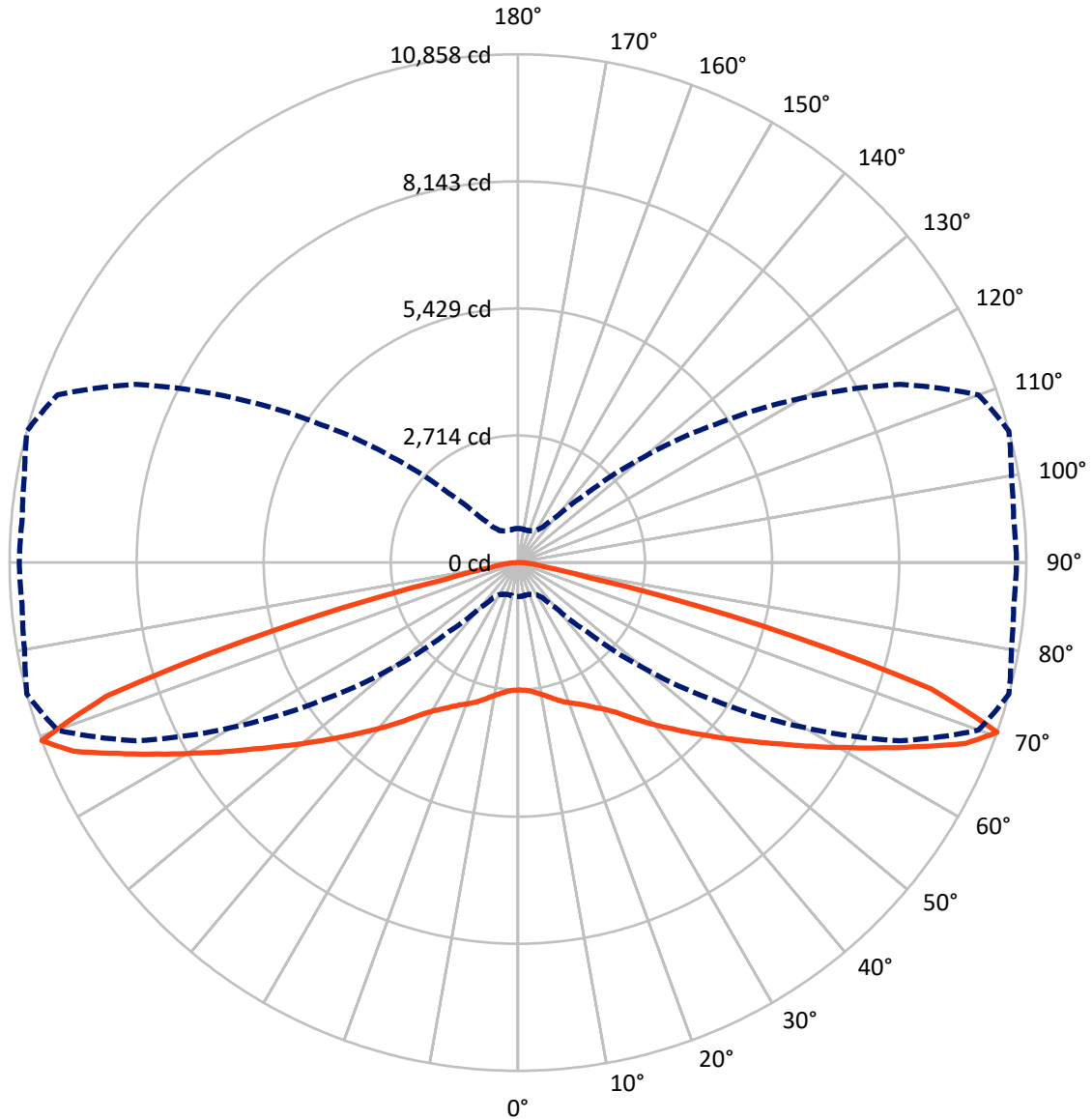
× Max cd
 - - - 1/2 Max cd



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	12272.0	0.0	12272.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12272.0	0.0	12272.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24544.0	0.0	24544.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.1
10°-20°	811.3	3.3
20°-30°	1527.0	6.2
30°-40°	2704.0	11.0
40°-50°	4522.0	18.4
50°-60°	6301.4	25.7
60°-70°	5843.5	23.8
70°-80°	2328.8	9.5
80°-90°	244.8	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°	24544.0	100.0
0°-180°	24544.0	100.0



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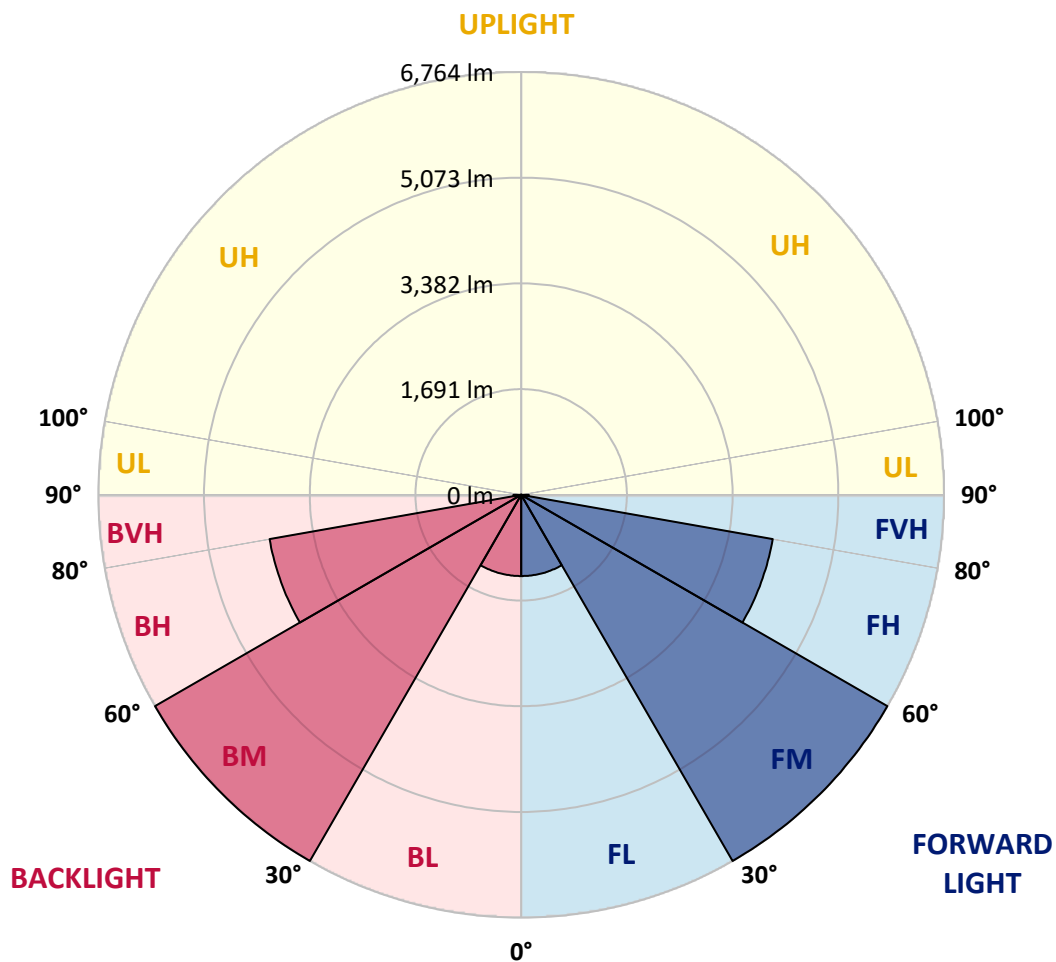
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.7	5.3			
FM	(30°-60°)	6763.7	27.6			
FH	(60°-80°)	4086.2	16.6			G2/5000
FVH	(80°-90°)	122.4	0.5			G2/225
BL	(0°-30°)	1299.7	5.3	B3/2500		
BM	(30°-60°)	6763.7	27.6	B4/8500		
BH	(60°-80°)	4086.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	122.4	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°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2717.9	2715.5	2717.9	2716.7	2719.0	2719.0	2721.3	2726.0	2726.0	2729.5	2728.3
5°	2691.2	2690.0	2693.5	2697.0	2700.5	2707.4	2714.4	2724.8	2732.9	2738.7	2744.5
7.5°	2639.0	2639.0	2643.6	2651.7	2659.9	2674.9	2691.2	2712.1	2732.9	2750.3	2765.4
10°	2596.1	2598.4	2604.2	2618.1	2632.0	2655.2	2677.3	2707.4	2736.4	2765.4	2788.6
12.5°	2570.5	2574.0	2584.5	2605.3	2628.5	2659.9	2693.5	2731.8	2764.3	2799.1	2822.3
15°	2578.7	2581.0	2596.1	2621.6	2651.7	2691.2	2736.4	2781.7	2819.9	2857.1	2888.4
17.5°	2623.9	2627.4	2644.8	2673.8	2705.1	2751.5	2800.2	2851.3	2898.8	2940.6	2978.9
20°	2705.1	2708.6	2730.6	2761.9	2799.1	2846.6	2895.3	2948.7	3002.1	3046.1	3089.1
22.5°	2819.9	2825.7	2846.6	2877.9	2919.7	2970.7	3028.7	3085.6	3136.6	3177.2	3215.5
25°	2970.7	2983.5	3003.2	3038.0	3082.1	3128.5	3191.1	3249.1	3297.9	3336.1	3364.0
27.5°	3184.2	3201.6	3216.7	3250.3	3293.2	3337.3	3399.9	3451.0	3497.4	3534.5	3555.4
30°	3467.2	3484.6	3499.7	3532.2	3571.6	3613.4	3672.5	3717.8	3746.8	3775.8	3774.6
32.5°	3810.6	3829.1	3834.9	3869.7	3910.3	3955.6	4008.9	4034.5	4057.7	4061.1	4040.3
35°	4194.5	4203.8	4227.0	4273.4	4319.8	4356.9	4408.0	4420.7	4420.7	4403.3	4356.9
37.5°	4615.6	4621.4	4653.9	4706.1	4753.6	4791.9	4826.7	4852.2	4839.5	4802.4	4724.6
40°	5077.3	5087.7	5134.1	5180.5	5233.9	5269.8	5307.0	5311.6	5298.8	5244.3	5138.8
42.5°	5518.1	5527.4	5573.8	5646.8	5716.4	5766.3	5801.1	5808.1	5767.5	5717.6	5586.5
45°	5897.4	5921.8	5982.1	6067.9	6168.8	6239.6	6287.2	6306.9	6270.9	6206.0	6054.0
47.5°	6197.8	6222.2	6308.0	6410.1	6535.4	6650.2	6729.1	6770.9	6761.6	6712.9	6547.0
50°	6418.2	6441.4	6534.2	6659.5	6805.7	6948.4	7082.9	7182.7	7217.5	7195.4	7043.5
52.5°	6443.8	6482.0	6591.1	6759.3	6949.5	7144.4	7335.8	7505.1	7620.0	7637.4	7524.9
55°	6087.6	6125.9	6276.7	6526.1	6809.2	7127.0	7433.2	7718.6	7944.8	8060.8	8001.6
57.5°	5247.8	5316.2	5475.2	5767.5	6183.9	6659.5	7147.9	7654.8	8115.3	8422.7	8481.9
60°	4021.7	4102.9	4263.0	4573.8	5037.8	5605.1	6257.0	7006.4	7819.5	8510.9	8923.8
62.5°	2579.8	2656.4	2824.6	3094.9	3473.0	4087.8	4787.3	5677.0	6769.7	7861.3	8844.9
65°	1325.9	1367.6	1455.8	1619.3	1914.0	2373.3	3000.9	3888.3	5137.6	6484.4	7906.5
67.5°	839.8	848.0	867.7	890.9	966.3	1125.2	1417.5	1970.8	2998.6	4403.3	6067.9
70°	726.2	726.2	716.9	713.4	722.7	744.7	790.0	918.7	1265.6	2090.3	3499.7
72.5°	664.7	657.7	641.5	628.7	626.4	626.4	635.7	655.4	711.1	851.4	1370.0
75°	612.5	592.8	570.7	555.6	549.8	544.0	542.9	546.4	558.0	580.0	654.2
77.5°	548.7	523.2	497.6	482.6	475.6	467.5	460.5	452.4	446.6	453.6	486.0
80°	472.1	443.1	423.4	414.1	407.2	395.6	380.5	366.6	353.8	351.5	371.2
82.5°	380.5	346.8	348.0	351.5	338.7	322.5	306.2	291.2	269.1	257.5	269.1
85°	307.4	290.0	281.9	303.9	285.4	261.0	235.5	208.8	174.0	146.2	158.9
87.5°	119.5	119.5	178.6	274.9	247.1	201.8	172.8	147.3	91.6	70.8	71.9
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°	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5	2722.5
2.5°	2727.1	2729.5	2728.3	2727.1	2727.1	2726.0	2727.1	2727.1
5°	2748.0	2753.8	2753.8	2756.1	2756.1	2757.3	2758.5	2757.3
7.5°	2779.3	2789.8	2796.7	2804.9	2806.0	2807.2	2809.5	2807.2
10°	2810.7	2831.5	2846.6	2861.7	2868.7	2871.0	2873.3	2873.3
12.5°	2850.1	2879.1	2905.8	2932.5	2945.2	2952.2	2952.2	2956.8
15°	2915.1	2944.1	2975.4	3011.3	3033.4	3045.0	3048.5	3048.5
17.5°	3006.7	3032.2	3058.9	3093.7	3121.5	3136.6	3140.1	3138.9
20°	3113.4	3137.8	3152.9	3174.9	3199.3	3216.7	3221.3	3221.3
22.5°	3235.2	3249.1	3251.5	3258.4	3278.1	3301.3	3311.8	3314.1
25°	3369.8	3373.3	3364.0	3364.0	3376.7	3398.8	3409.2	3410.4
27.5°	3543.8	3526.4	3503.2	3495.1	3503.2	3528.7	3541.5	3546.1
30°	3760.7	3718.9	3665.6	3636.6	3631.9	3665.6	3688.8	3692.3
32.5°	4008.9	3948.6	3877.9	3818.7	3803.6	3824.5	3852.3	3851.2
35°	4303.6	4231.7	4145.8	4070.4	4035.6	4056.5	4095.9	4100.6
37.5°	4643.4	4549.5	4450.9	4355.8	4301.3	4307.1	4348.8	4362.7
40°	5022.8	4901.0	4776.8	4649.2	4571.5	4556.4	4607.5	4615.6
42.5°	5428.8	5272.2	5115.6	4957.8	4858.0	4834.8	4894.0	4890.5
45°	5861.4	5661.9	5478.6	5304.6	5186.3	5151.5	5200.2	5200.2
47.5°	6326.6	6080.7	5862.6	5665.4	5536.6	5486.8	5533.2	5536.6
50°	6819.6	6558.6	6302.2	6083.0	5928.7	5864.9	5925.2	5934.5
52.5°	7310.3	7056.2	6797.6	6547.0	6360.2	6282.5	6352.1	6382.3
55°	7807.9	7558.5	7311.4	7066.7	6845.1	6753.5	6827.7	6866.0
57.5°	8333.4	8102.5	7867.1	7620.0	7406.5	7263.9	7342.8	7393.8
60°	8949.3	8752.1	8507.4	8234.8	8019.0	7874.0	7919.3	7964.5
62.5°	9436.5	9513.1	9305.5	8989.9	8712.7	8527.1	8571.2	8618.7
65°	9201.1	9986.4	10170.8	9851.8	9467.9	9179.0	9160.5	9184.8
67.5°	7690.7	9216.1	10328.6	10632.5	10311.2	9909.8	9835.6	9871.5
70°	5144.6	7044.6	9007.3	10468.9	10857.5	10702.1	10629.0	10651.0
72.5°	2470.8	4102.9	6110.8	8053.8	9237.0	9779.9	9953.9	10038.6
75°	903.6	1628.6	2945.2	4438.1	5358.0	6202.5	6753.5	6978.5
77.5°	545.2	657.7	940.8	1416.4	1604.3	1795.7	1721.4	1758.5
80°	403.7	455.9	516.2	580.0	600.9	600.9	577.7	559.1
82.5°	283.0	316.7	345.7	380.5	389.8	372.4	306.2	243.6
85°	182.1	197.2	210.0	232.0	226.2	215.8	145.0	128.8
87.5°	83.5	95.1	99.8	110.2	105.6	100.9	71.9	60.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)