

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: P300554

Luminaire Tested: **GLNA-AF-04-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300554
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: GLNA-AF-04-LED-E1-RW-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23660.2 lumens
Efficiency: N/A
Efficacy: 105.2 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

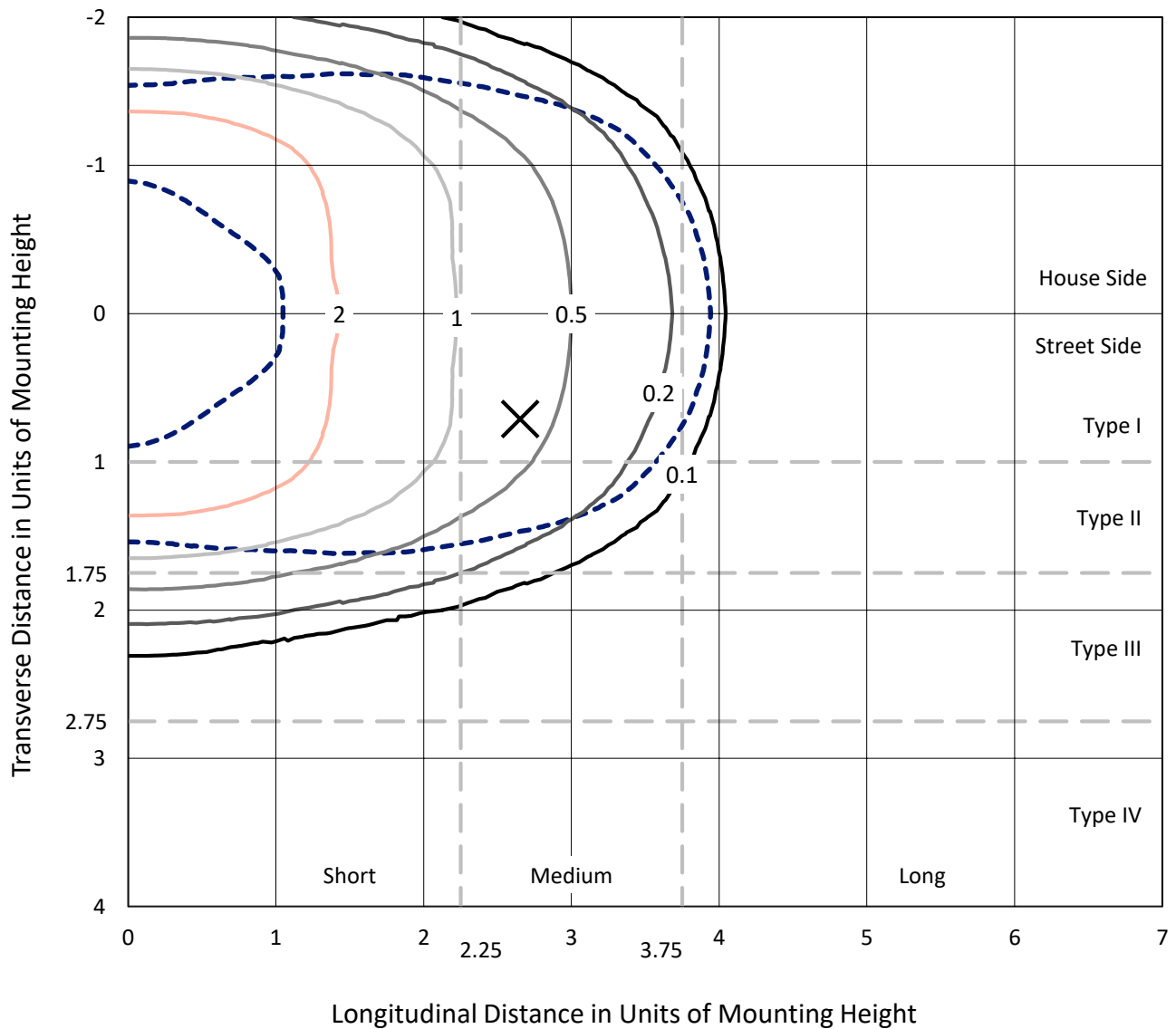
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

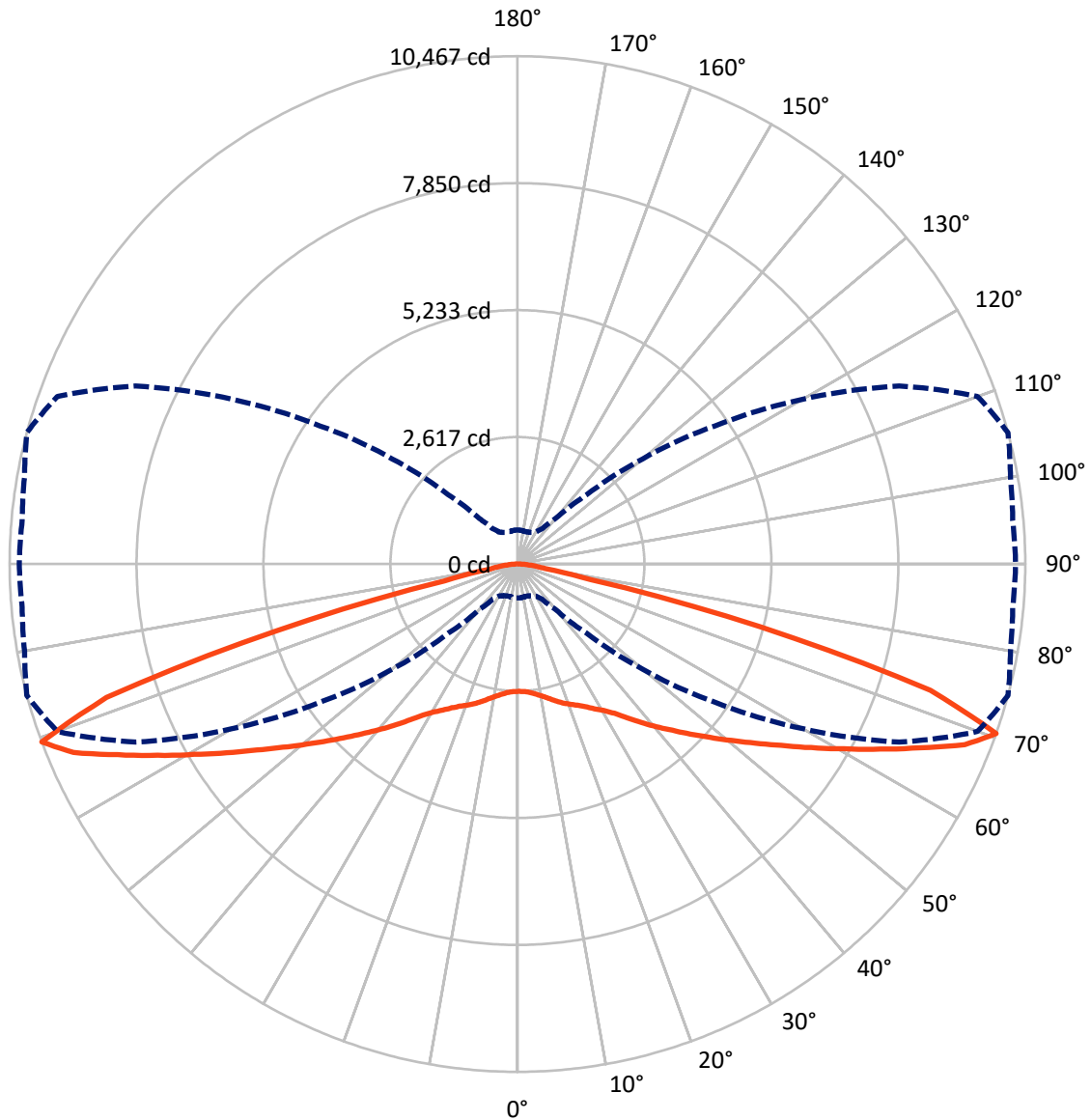
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	11830.1	0.0	11830.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11830.1	0.0	11830.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23660.2	0.0	23660.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.1
10°-20°	782.1	3.3
20°-30°	1472.0	6.2
30°-40°	2606.6	11.0
40°-50°	4359.2	18.4
50°-60°	6074.5	25.7
60°-70°	5633.1	23.8
70°-80°	2245.0	9.5
80°-90°	236.0	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°	23660.2	100.0
0°-180°	23660.2	100.0

Coefficient of Utilization



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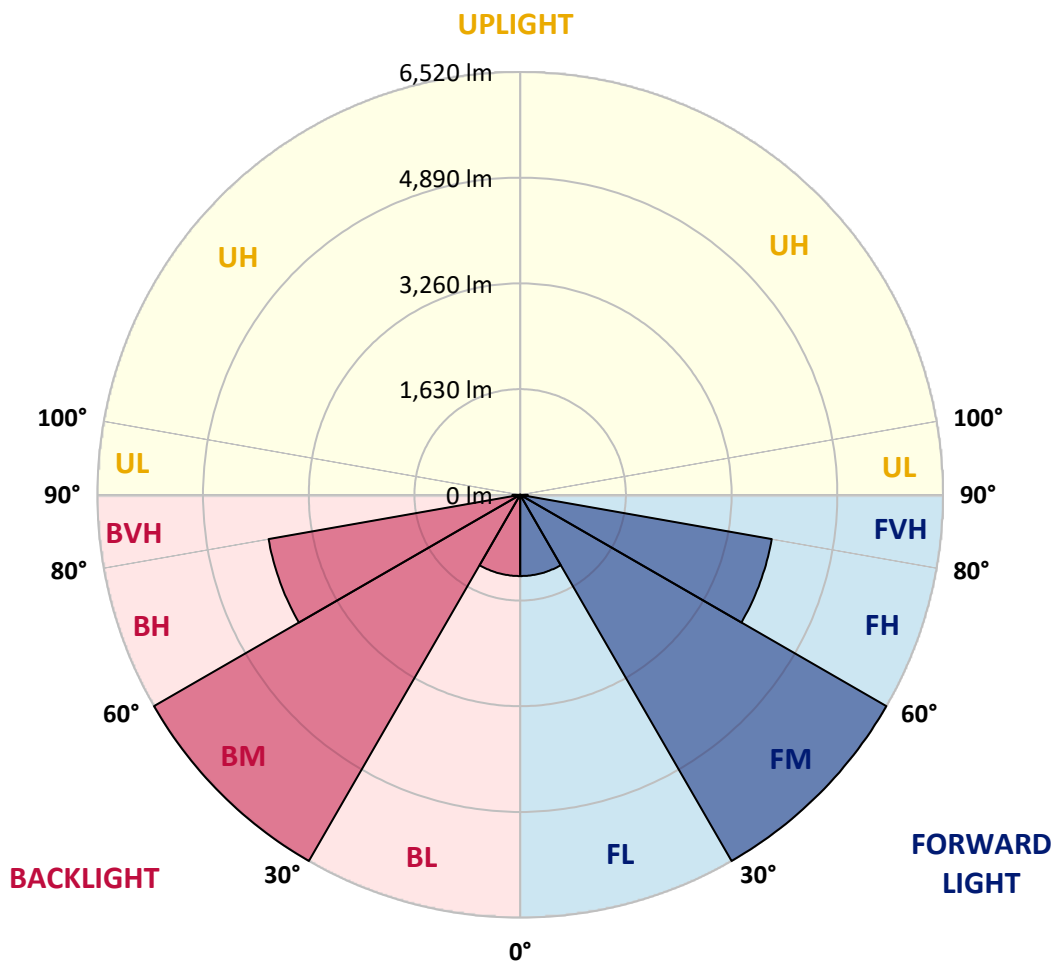
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.9	5.3			
FM	(30°-60°)	6520.2	27.6			
FH	(60°-80°)	3939.0	16.6			G2/5000
FVH	(80°-90°)	118.0	0.5			G2/225
BL	(0°-30°)	1252.9	5.3	B3/2500		
BM	(30°-60°)	6520.2	27.6	B4/8500		
BH	(60°-80°)	3939.0	16.6	B4/5000		G4/5000
BVH	(80°-90°)	118.0	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°	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5
2.5°	2620.0	2617.8	2620.0	2618.9	2621.1	2621.1	2623.3	2627.8	2627.8	2631.2	2630.1
5°	2594.3	2593.2	2596.5	2599.9	2603.2	2609.9	2616.6	2626.7	2634.5	2640.1	2645.7
7.5°	2544.0	2544.0	2548.4	2556.3	2564.1	2578.6	2594.3	2614.4	2634.5	2651.3	2665.8
10°	2502.6	2504.8	2510.4	2523.8	2537.2	2559.6	2580.9	2609.9	2637.9	2665.8	2688.2
12.5°	2478.0	2481.3	2491.4	2511.5	2533.9	2564.1	2596.5	2633.4	2664.7	2698.3	2720.6
15°	2485.8	2488.0	2502.6	2527.2	2556.3	2594.3	2637.9	2681.5	2718.4	2754.2	2784.4
17.5°	2529.4	2532.8	2549.5	2577.5	2607.7	2652.4	2699.4	2748.6	2794.4	2834.7	2871.6
20°	2607.7	2611.0	2632.3	2662.5	2698.3	2744.1	2791.1	2842.5	2894.0	2936.4	2977.8
22.5°	2718.4	2724.0	2744.1	2774.3	2814.6	2863.8	2919.7	2974.5	3023.7	3062.8	3099.7
25°	2863.8	2876.1	2895.1	2928.6	2971.1	3015.8	3076.2	3132.1	3179.1	3216.0	3242.8
27.5°	3069.5	3086.3	3100.8	3133.3	3174.6	3217.1	3277.5	3326.7	3371.4	3407.2	3427.3
30°	3342.4	3359.1	3373.7	3405.0	3443.0	3483.3	3540.3	3583.9	3611.9	3639.8	3638.7
32.5°	3673.4	3691.2	3696.8	3730.4	3769.5	3813.1	3864.6	3889.2	3911.5	3914.9	3894.8
35°	4043.5	4052.4	4074.8	4119.5	4164.3	4200.0	4249.2	4261.5	4261.5	4244.8	4200.0
37.5°	4449.4	4455.0	4486.3	4536.6	4582.5	4619.4	4652.9	4677.5	4665.2	4629.4	4554.5
40°	4894.5	4904.5	4949.2	4994.0	5045.4	5080.1	5115.9	5120.3	5108.0	5055.5	4953.7
42.5°	5319.4	5328.3	5373.1	5443.5	5510.6	5558.7	5592.2	5598.9	5559.8	5511.7	5385.4
45°	5685.0	5708.5	5766.7	5849.4	5946.7	6014.9	6060.8	6079.8	6045.1	5982.5	5836.0
47.5°	5974.7	5998.1	6080.9	6179.3	6300.1	6410.8	6486.8	6527.1	6518.1	6471.1	6311.2
50°	6187.1	6209.5	6298.9	6419.7	6560.6	6698.1	6827.9	6924.0	6957.6	6936.3	6789.8
52.5°	6211.7	6248.6	6353.7	6515.9	6699.3	6887.1	7071.6	7234.9	7345.6	7362.4	7253.9
55°	5868.4	5905.3	6050.7	6291.1	6564.0	6870.4	7165.6	7440.6	7658.7	7770.5	7713.5
57.5°	5058.8	5124.8	5278.0	5559.8	5961.2	6419.7	6890.5	7379.1	7823.1	8119.4	8176.4
60°	3876.9	3955.1	4109.5	4409.1	4856.4	5403.2	6031.7	6754.1	7537.9	8204.4	8602.5
62.5°	2486.9	2560.7	2722.9	2983.4	3348.0	3940.6	4614.9	5472.6	6525.9	7578.2	8526.4
65°	1278.1	1318.4	1403.4	1561.0	1845.1	2287.9	2892.8	3748.3	4952.6	6250.9	7621.8
67.5°	809.6	817.4	836.4	858.8	931.5	1084.7	1366.5	1899.9	2890.6	4244.8	5849.4
70°	700.0	700.0	691.1	687.7	696.7	717.9	761.5	885.6	1220.0	2015.0	3373.7
72.5°	640.7	634.0	618.4	606.1	603.8	603.8	612.8	631.8	685.5	820.8	1320.6
75°	590.4	571.4	550.2	535.6	530.0	524.4	523.3	526.7	537.9	559.1	630.7
77.5°	528.9	504.3	479.7	465.2	458.5	450.6	443.9	436.1	430.5	437.2	468.5
80°	455.1	427.2	408.2	399.2	392.5	381.3	366.8	353.4	341.1	338.8	357.8
82.5°	366.8	334.3	335.5	338.8	326.5	310.9	295.2	280.7	259.4	248.2	259.4
85°	296.3	279.6	271.7	293.0	275.1	251.6	227.0	201.3	167.7	140.9	153.2
87.5°	115.2	115.2	172.2	265.0	238.2	194.6	166.6	142.0	88.3	68.2	69.3
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°	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5	2624.5
2.5°	2628.9	2631.2	2630.1	2628.9	2628.9	2627.8	2628.9	2628.9
5°	2649.1	2654.7	2654.7	2656.9	2656.9	2658.0	2659.1	2658.0
7.5°	2679.3	2689.3	2696.0	2703.9	2705.0	2706.1	2708.3	2706.1
10°	2709.5	2729.6	2744.1	2758.7	2765.4	2767.6	2769.8	2769.8
12.5°	2747.5	2775.4	2801.1	2826.9	2839.2	2845.9	2845.9	2850.3
15°	2810.1	2838.0	2868.2	2902.9	2924.1	2935.3	2938.7	2938.7
17.5°	2898.4	2923.0	2948.7	2982.3	3009.1	3023.7	3027.0	3025.9
20°	3001.3	3024.8	3039.3	3060.6	3084.1	3100.8	3105.3	3105.3
22.5°	3118.7	3132.1	3134.4	3141.1	3160.1	3182.5	3192.5	3194.8
25°	3248.4	3251.8	3242.8	3242.8	3255.1	3276.4	3286.5	3287.6
27.5°	3416.2	3399.4	3377.0	3369.2	3377.0	3401.6	3413.9	3418.4
30°	3625.3	3585.0	3533.6	3505.6	3501.2	3533.6	3555.9	3559.3
32.5°	3864.6	3806.4	3738.2	3681.2	3666.6	3686.8	3713.6	3712.5
35°	4148.6	4079.3	3996.5	3923.8	3890.3	3910.4	3948.4	3952.9
37.5°	4476.2	4385.7	4290.6	4198.9	4146.4	4152.0	4192.2	4205.6
40°	4841.9	4724.5	4604.8	4481.8	4406.9	4392.4	4441.6	4449.4
42.5°	5233.3	5082.3	4931.4	4779.3	4683.1	4660.7	4717.8	4714.4
45°	5650.4	5458.0	5281.4	5113.6	4999.6	4966.0	5013.0	5013.0
47.5°	6098.8	5861.7	5651.5	5461.4	5337.3	5289.2	5333.9	5337.3
50°	6574.0	6322.4	6075.3	5864.0	5715.2	5653.7	5711.9	5720.8
52.5°	7047.0	6802.1	6552.8	6311.2	6131.2	6056.3	6123.4	6152.5
55°	7526.7	7286.3	7048.1	6812.2	6598.6	6510.3	6581.9	6618.8
57.5°	8033.3	7810.8	7583.8	7345.6	7139.8	7002.3	7078.3	7127.5
60°	8627.1	8437.0	8201.0	7938.3	7730.3	7590.5	7634.1	7677.7
62.5°	9096.7	9170.5	8970.4	8666.2	8399.0	8220.0	8262.5	8308.4
65°	8869.7	9626.8	9804.6	9497.1	9126.9	8848.5	8830.6	8854.1
67.5°	7413.8	8884.3	9956.6	10249.6	9939.9	9553.0	9481.4	9516.1
70°	4959.3	6791.0	8683.0	10091.9	10466.6	10316.7	10246.3	10267.5
72.5°	2381.8	3955.1	5890.8	7763.8	8904.4	9427.7	9595.5	9677.1
75°	871.1	1570.0	2839.2	4278.3	5165.1	5979.1	6510.3	6727.2
77.5°	525.6	634.0	906.9	1365.3	1546.5	1731.0	1659.4	1695.2
80°	389.1	439.5	497.6	559.1	579.2	579.2	556.9	539.0
82.5°	272.8	305.3	333.2	366.8	375.7	358.9	295.2	234.8
85°	175.6	190.1	202.4	223.6	218.1	208.0	139.8	124.1
87.5°	80.5	91.7	96.2	106.2	101.8	97.3	69.3	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)