

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: P300559

Luminaire Tested: **GLNA-AF-05-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300559
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-05-LED-E1-RW-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K 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: 26332 lumens
Efficiency: N/A
Efficacy: 94.4 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

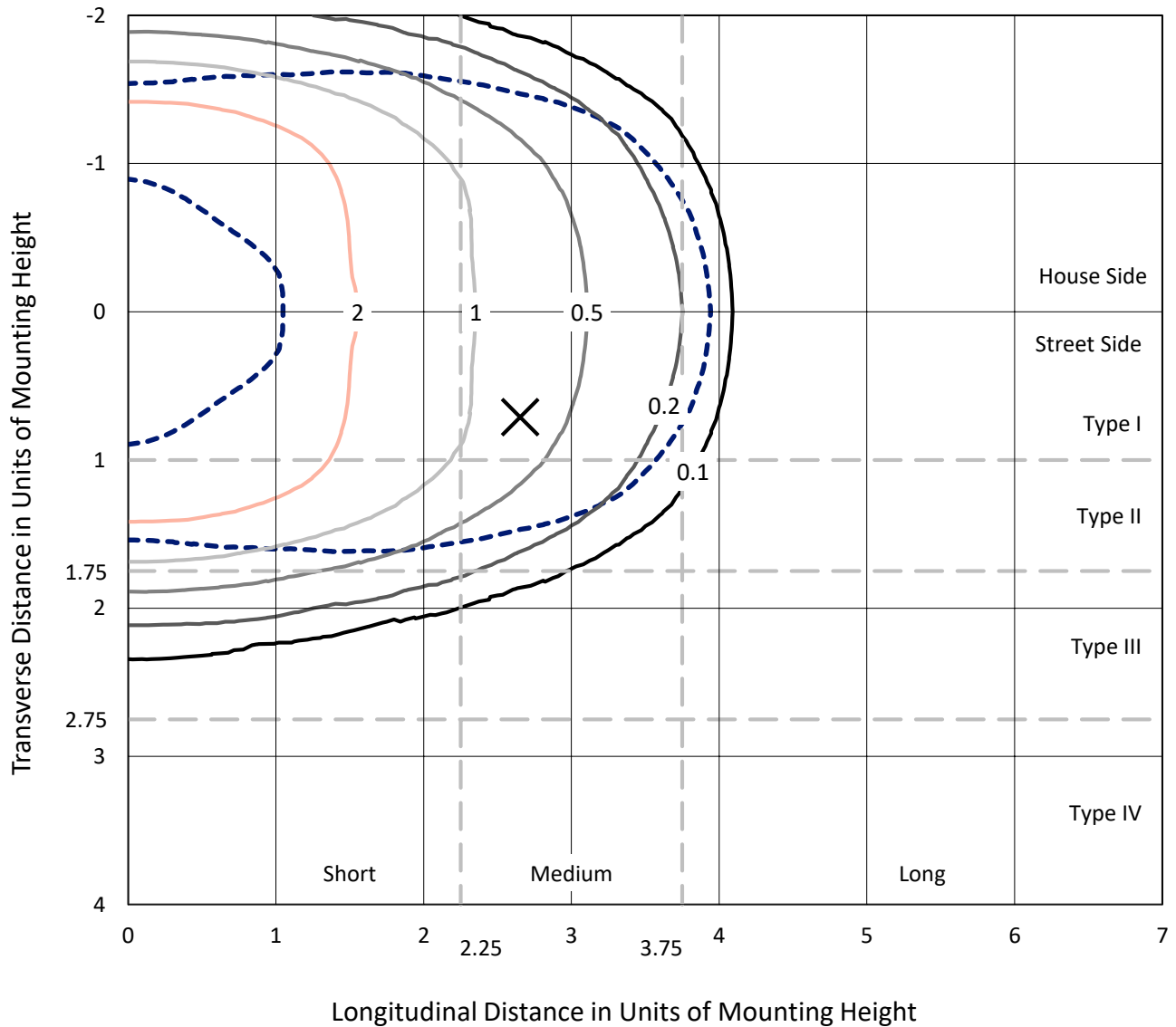
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300559
 CATALOG NUMBER: GLNA-AF-05-LED-E1-RW-7027

Iso-Footcandle Lines of Horizontal Illumination

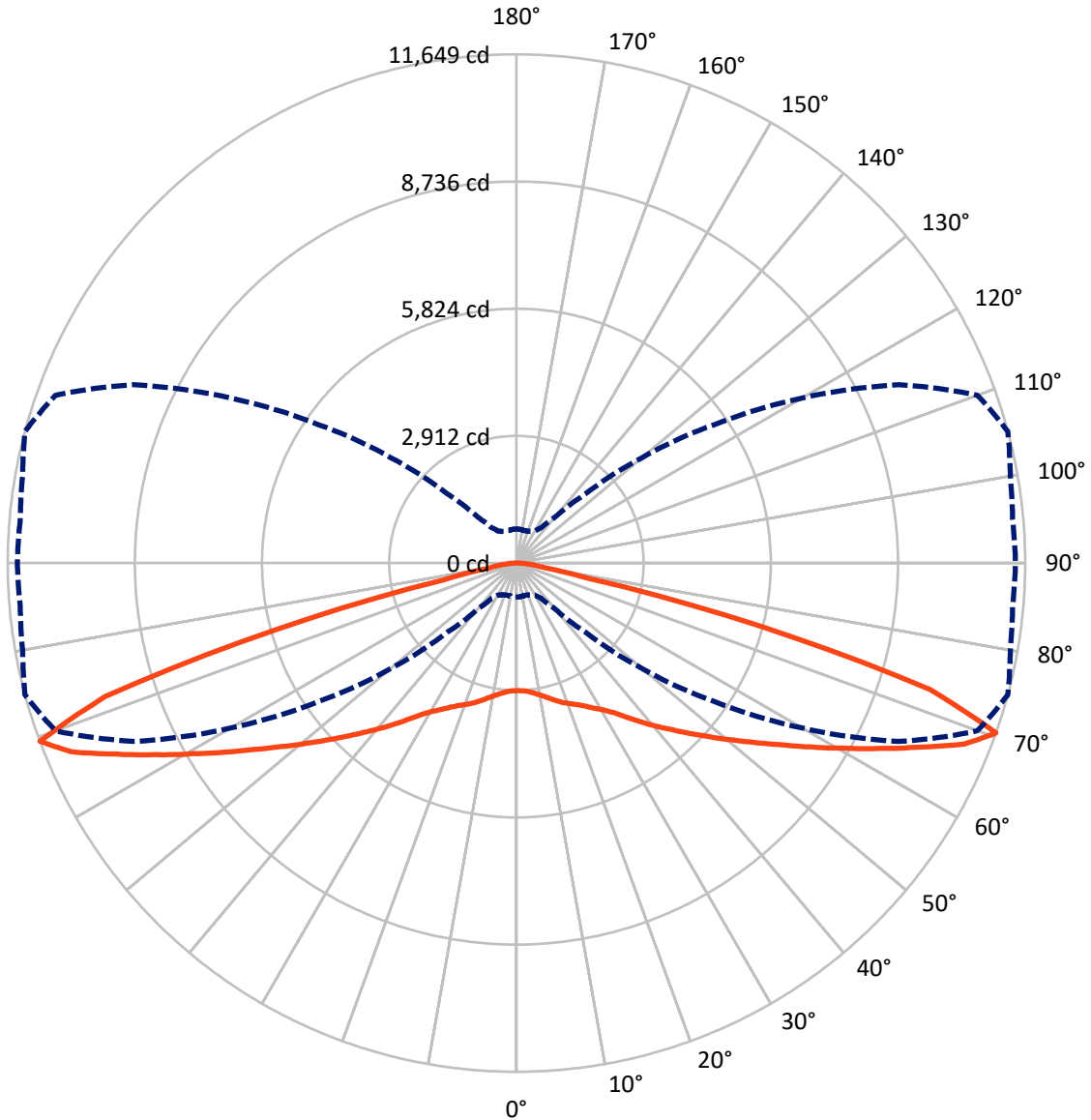
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P300559
CATALOG NUMBER: GLNA-AF-05-LED-E1-RW-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLNA-AF-05-LED-E1-RW-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13166.0	0.0	13166.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13166.0	0.0	13166.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26332.0	0.0	26332.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	1.1
10°-20°	870.4	3.3
20°-30°	1638.2	6.2
30°-40°	2901.0	11.0
40°-50°	4851.4	18.4
50°-60°	6760.5	25.7
60°-70°	6269.2	23.8
70°-80°	2498.5	9.5
80°-90°	262.6	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°	26332.0	100.0
0°-180°	26332.0	100.0



REPORT NUMBER: P300559

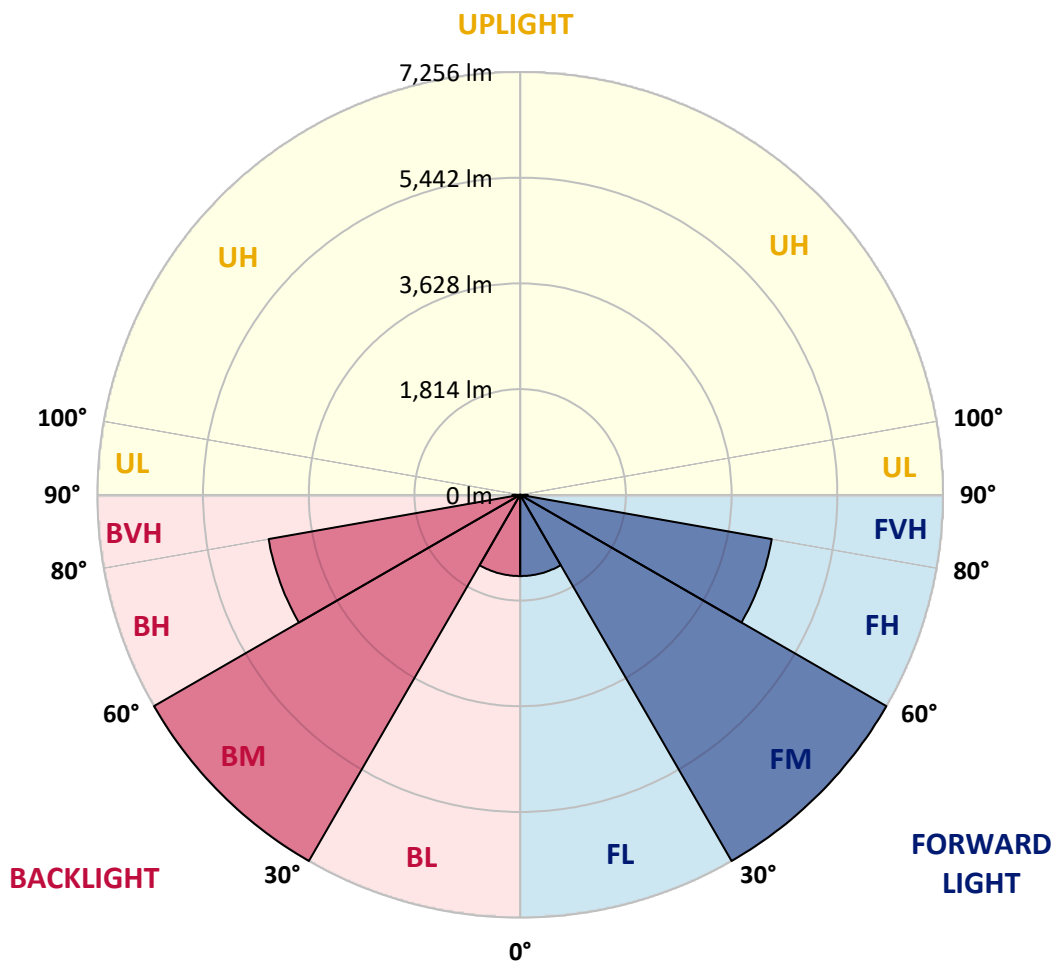
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.4	5.3			
FM	(30°-60°)	7256.4	27.6			
FH	(60°-80°)	4383.9	16.6			G2/5000
FVH	(80°-90°)	131.3	0.5			G2/225
BL	(0°-30°)	1394.4	5.3	B3/2500		
BM	(30°-60°)	7256.4	27.6	B4/8500		
BH	(60°-80°)	4383.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	131.3	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: P300559

CATALOG NUMBER: GLNA-AF-05-LED-E1-RW-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	2915.9	2913.4	2915.9	2914.6	2917.1	2917.1	2919.6	2924.6	2924.6	2928.3	2927.1
5°	2887.2	2886.0	2889.7	2893.4	2897.2	2904.7	2912.1	2923.3	2932.0	2938.3	2944.5
7.5°	2831.2	2831.2	2836.2	2844.9	2853.6	2869.8	2887.2	2909.6	2932.0	2950.7	2966.9
10°	2785.2	2787.7	2793.9	2808.8	2823.8	2848.6	2872.3	2904.7	2935.8	2966.9	2991.8
12.5°	2757.8	2761.5	2772.7	2795.1	2820.0	2853.6	2889.7	2930.8	2965.6	3003.0	3027.9
15°	2766.5	2769.0	2785.2	2812.6	2844.9	2887.2	2935.8	2984.3	3025.4	3065.2	3098.8
17.5°	2815.0	2818.8	2837.4	2868.6	2902.2	2951.9	3004.2	3059.0	3110.0	3154.8	3195.9
20°	2902.2	2905.9	2929.5	2963.1	3003.0	3054.0	3106.3	3163.5	3220.8	3268.0	3314.1
22.5°	3025.4	3031.6	3054.0	3087.6	3132.4	3187.2	3249.4	3310.4	3365.1	3408.7	3449.7
25°	3187.2	3200.8	3222.0	3259.3	3306.6	3356.4	3423.6	3485.8	3538.1	3579.2	3609.0
27.5°	3416.1	3434.8	3451.0	3487.1	3533.1	3580.4	3647.6	3702.4	3752.2	3792.0	3814.4
30°	3719.8	3738.5	3754.6	3789.5	3831.8	3876.6	3940.1	3988.6	4019.7	4050.8	4049.6
32.5°	4088.2	4108.1	4114.3	4151.6	4195.2	4243.7	4301.0	4328.4	4353.2	4357.0	4334.6
35°	4500.1	4510.0	4534.9	4584.7	4634.5	4674.3	4729.1	4742.8	4742.8	4724.1	4674.3
37.5°	4951.8	4958.1	4992.9	5048.9	5099.9	5141.0	5178.3	5205.7	5192.0	5152.2	5068.8
40°	5447.2	5458.4	5508.1	5557.9	5615.2	5653.7	5693.6	5698.5	5684.9	5626.4	5513.1
42.5°	5920.1	5930.0	5979.8	6058.2	6132.9	6186.4	6223.7	6231.2	6187.6	6134.1	5993.5
45°	6327.0	6353.1	6417.9	6510.0	6618.2	6694.1	6745.2	6766.3	6727.7	6658.0	6495.0
47.5°	6649.3	6675.5	6767.6	6877.1	7011.5	7134.7	7219.3	7264.1	7254.2	7201.9	7023.9
50°	6885.8	6910.7	7010.2	7144.6	7301.4	7454.5	7598.9	7705.9	7743.2	7719.6	7556.6
52.5°	6913.2	6954.2	7071.2	7251.7	7455.8	7664.8	7870.2	8051.9	8175.1	8193.8	8073.0
55°	6531.1	6572.2	6734.0	7001.5	7305.2	7646.2	7974.7	8280.9	8523.5	8648.0	8584.5
57.5°	5630.1	5703.5	5874.0	6187.6	6634.4	7144.6	7668.6	8212.4	8706.5	9036.3	9099.7
60°	4314.7	4401.8	4573.5	4907.0	5404.8	6013.4	6712.8	7516.7	8389.1	9130.9	9573.9
62.5°	2767.8	2849.9	3030.3	3320.3	3726.0	4385.6	5136.0	6090.6	7262.9	8433.9	9489.3
65°	1422.5	1467.3	1561.8	1737.3	2053.4	2546.2	3219.5	4171.5	5511.9	6956.7	8482.5
67.5°	901.0	909.7	930.9	955.8	1036.7	1207.2	1520.8	2114.4	3217.0	4724.1	6510.0
70°	779.1	779.1	769.1	765.4	775.3	799.0	847.5	985.6	1357.7	2242.6	3754.6
72.5°	713.1	705.6	688.2	674.5	672.0	672.0	682.0	703.1	762.9	913.5	1469.7
75°	657.1	635.9	612.3	596.1	589.9	583.7	582.4	586.2	598.6	622.2	701.9
77.5°	588.6	561.3	533.9	517.7	510.2	501.5	494.1	485.4	479.1	486.6	521.4
80°	506.5	475.4	454.2	444.3	436.8	424.4	408.2	393.3	379.6	377.1	398.2
82.5°	408.2	372.1	373.3	377.1	363.4	346.0	328.5	312.4	288.7	276.3	288.7
85°	329.8	311.1	302.4	326.1	306.1	280.0	252.6	224.0	186.7	156.8	170.5
87.5°	128.2	128.2	191.7	294.9	265.1	216.5	185.4	158.1	98.3	75.9	77.2
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: P300559

CATALOG NUMBER: GLNA-AF-05-LED-E1-RW-7027

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8	2920.8
2.5°	2925.8	2928.3	2927.1	2925.8	2925.8	2924.6	2925.8	2925.8
5°	2948.2	2954.4	2954.4	2956.9	2956.9	2958.2	2959.4	2958.2
7.5°	2981.8	2993.0	3000.5	3009.2	3010.4	3011.7	3014.2	3011.7
10°	3015.4	3037.8	3054.0	3070.2	3077.6	3080.1	3082.6	3082.6
12.5°	3057.7	3088.8	3117.5	3146.1	3159.8	3167.2	3167.2	3172.2
15°	3127.4	3158.5	3192.1	3230.7	3254.4	3266.8	3270.5	3270.5
17.5°	3225.7	3253.1	3281.7	3319.1	3348.9	3365.1	3368.8	3367.6
20°	3340.2	3366.4	3382.5	3406.2	3432.3	3451.0	3456.0	3456.0
22.5°	3470.9	3485.8	3488.3	3495.8	3516.9	3541.8	3553.0	3555.5
25°	3615.3	3619.0	3609.0	3609.0	3622.7	3646.4	3657.6	3658.8
27.5°	3801.9	3783.3	3758.4	3749.7	3758.4	3785.8	3799.4	3804.4
30°	4034.7	3989.8	3932.6	3901.5	3896.5	3932.6	3957.5	3961.2
32.5°	4301.0	4236.3	4160.3	4096.9	4080.7	4103.1	4133.0	4131.7
35°	4617.1	4539.9	4447.8	4366.9	4329.6	4352.0	4394.3	4399.3
37.5°	4981.7	4880.9	4775.1	4673.1	4614.6	4620.8	4665.6	4680.5
40°	5388.7	5258.0	5124.8	4987.9	4904.6	4888.4	4943.1	4951.8
42.5°	5824.2	5656.2	5488.2	5319.0	5211.9	5187.1	5250.5	5246.8
45°	6288.4	6074.4	5877.7	5691.1	5564.1	5526.8	5579.1	5579.1
47.5°	6787.5	6523.6	6289.7	6078.1	5940.0	5886.5	5936.2	5940.0
50°	7316.4	7036.4	6761.3	6526.1	6360.6	6292.2	6356.9	6366.8
52.5°	7842.8	7570.3	7292.7	7023.9	6823.6	6740.2	6814.9	6847.2
55°	8376.7	8109.1	7844.0	7581.5	7343.8	7245.4	7325.1	7366.2
57.5°	8940.4	8692.8	8440.2	8175.1	7946.1	7793.0	7877.7	7932.4
60°	9601.3	9389.7	9127.1	8834.7	8603.2	8447.6	8496.2	8544.7
62.5°	10124.0	10206.1	9983.3	9644.8	9347.4	9148.3	9195.6	9246.6
65°	9871.3	10713.9	10911.7	10569.5	10157.6	9847.7	9827.8	9853.9
67.5°	8251.0	9887.5	11081.0	11407.0	11062.3	10631.7	10552.1	10590.6
70°	5519.3	7557.8	9663.5	11231.6	11648.5	11481.7	11403.3	11426.9
72.5°	2650.8	4401.8	6556.0	8640.5	9909.9	10492.3	10679.0	10769.9
75°	969.5	1747.3	3159.8	4761.4	5748.3	6654.3	7245.4	7486.9
77.5°	584.9	705.6	1009.3	1519.5	1721.1	1926.5	1846.8	1886.7
80°	433.1	489.1	553.8	622.2	644.6	644.6	619.8	599.8
82.5°	303.7	339.7	370.9	408.2	418.2	399.5	328.5	261.3
85°	195.4	211.6	225.3	248.9	242.7	231.5	155.6	138.1
87.5°	89.6	102.0	107.0	118.2	113.2	108.3	77.2	64.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)