

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: P300625

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300625
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-06-LED-E1-RW-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25457 lumens
Efficiency: N/A
Efficacy: 102.2 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

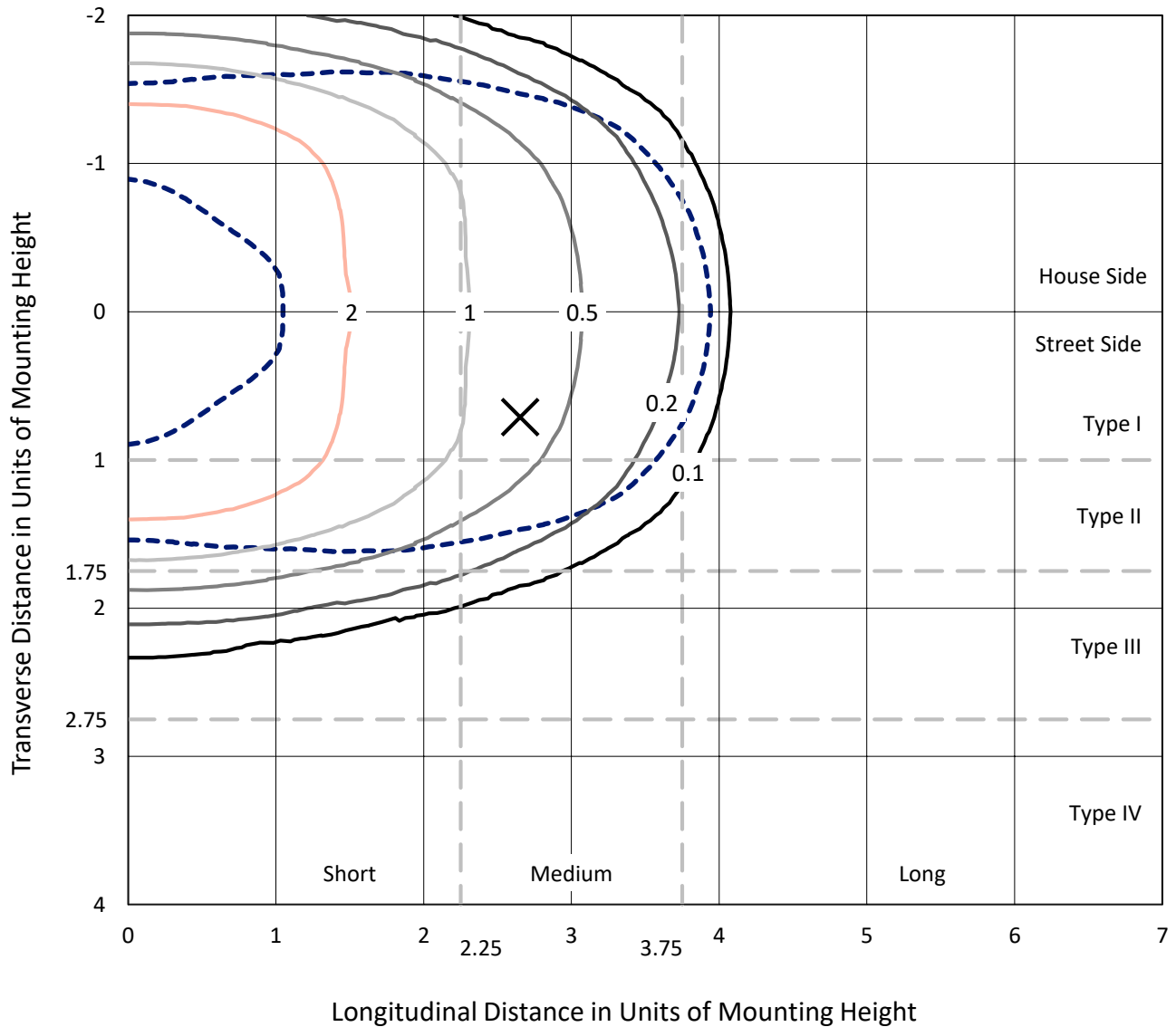
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

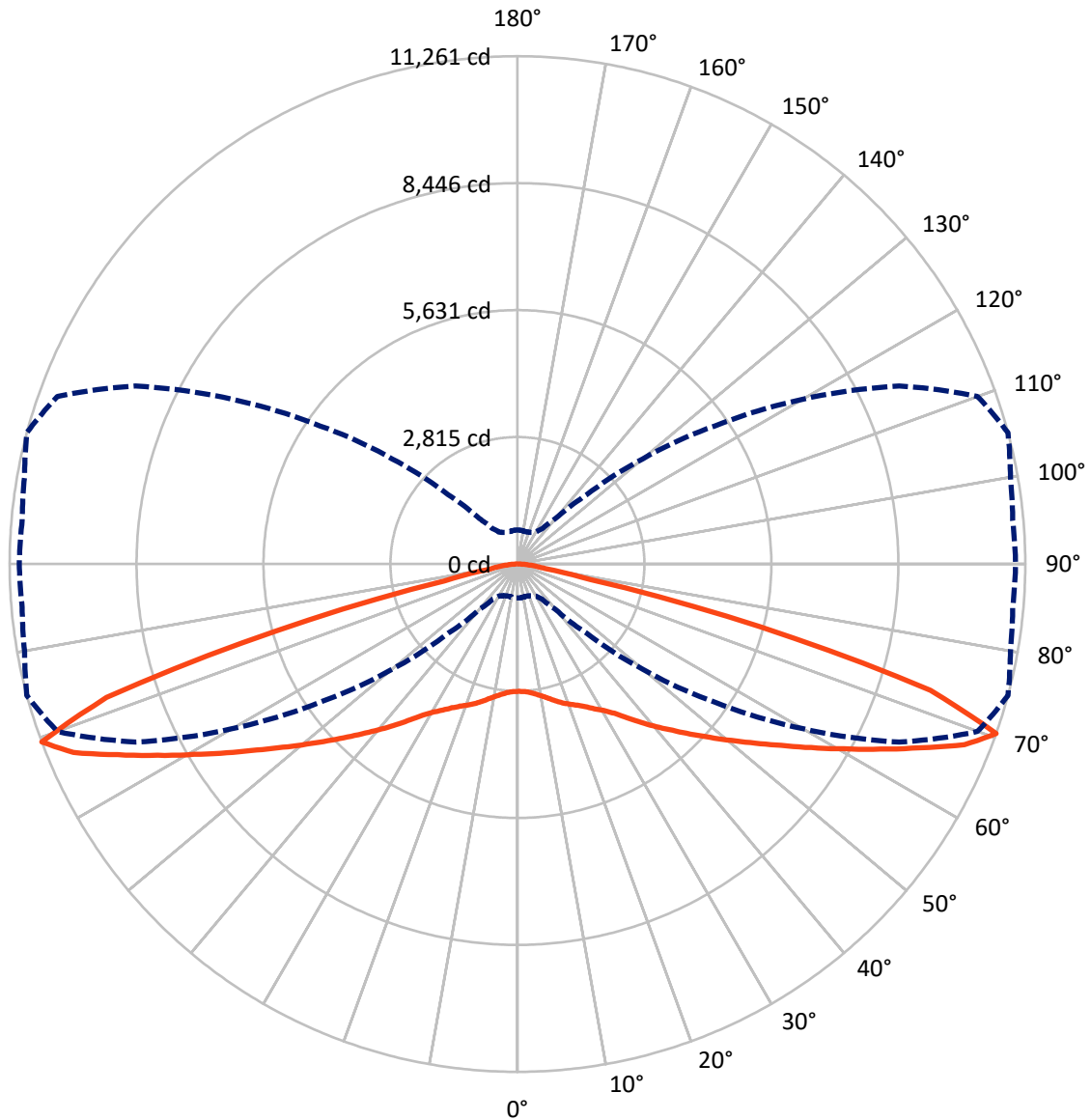
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	12728.5	0.0	12728.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12728.5	0.0	12728.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25457.0	0.0	25457.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	1.1
10°-20°	841.5	3.3
20°-30°	1583.8	6.2
30°-40°	2804.6	11.0
40°-50°	4690.2	18.4
50°-60°	6535.8	25.7
60°-70°	6060.9	23.8
70°-80°	2415.5	9.5
80°-90°	253.9	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°	25457.0	100.0
0°-180°	25457.0	100.0



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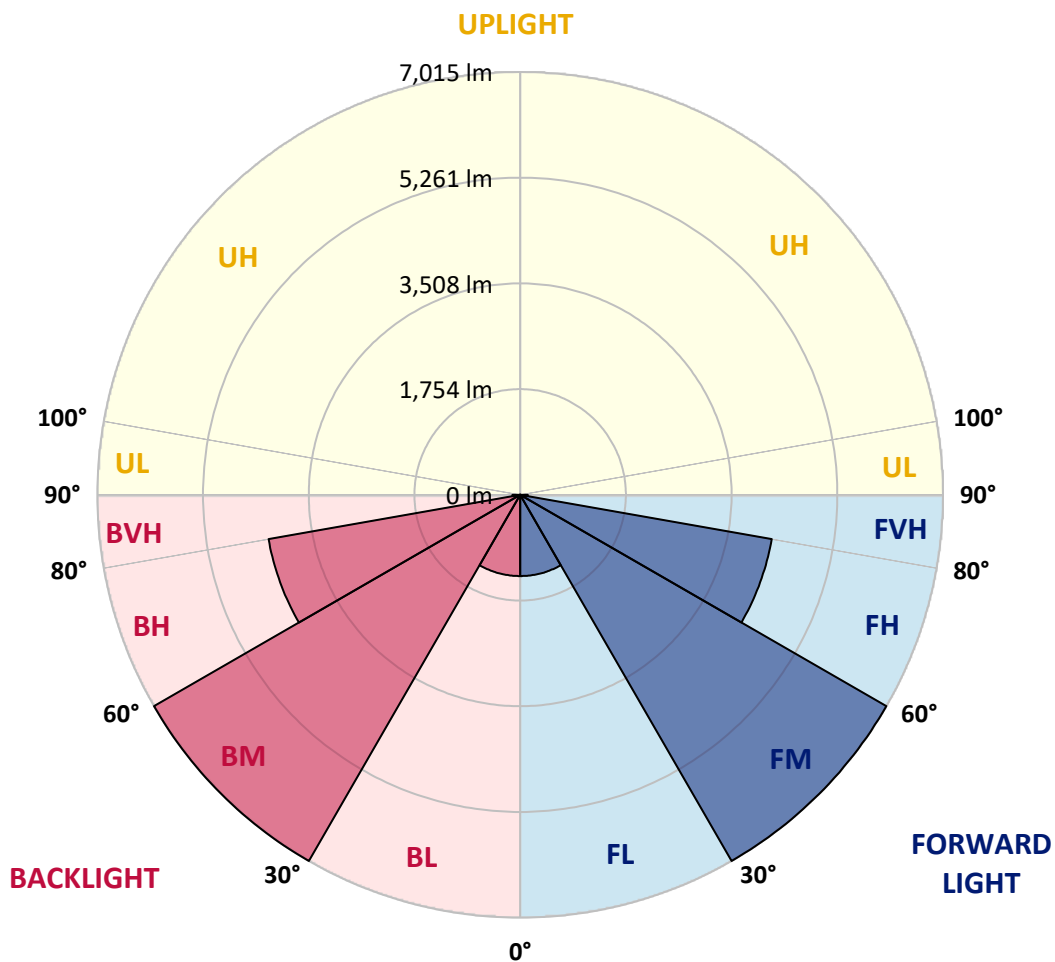
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.1	5.3			
FM	(30°-60°)	7015.3	27.6			
FH	(60°-80°)	4238.2	16.6			G2/5000
FVH	(80°-90°)	126.9	0.5			G2/225
BL	(0°-30°)	1348.1	5.3	B3/2500		
BM	(30°-60°)	7015.3	27.6	B4/8500		
BH	(60°-80°)	4238.2	16.6	B4/5000		G4/5000
BVH	(80°-90°)	126.9	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°	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8
2.5°	2819.0	2816.6	2819.0	2817.8	2820.2	2820.2	2822.6	2827.4	2827.4	2831.0	2829.8
5°	2791.3	2790.1	2793.7	2797.3	2800.9	2808.1	2815.4	2826.2	2834.6	2840.6	2846.6
7.5°	2737.2	2737.2	2742.0	2750.4	2758.8	2774.4	2791.3	2813.0	2834.6	2852.7	2868.3
10°	2692.6	2695.0	2701.1	2715.5	2729.9	2754.0	2776.9	2808.1	2838.2	2868.3	2892.4
12.5°	2666.2	2669.8	2680.6	2702.3	2726.3	2758.8	2793.7	2833.4	2867.1	2903.2	2927.2
15°	2674.6	2677.0	2692.6	2719.1	2750.4	2791.3	2838.2	2885.1	2924.8	2963.3	2995.8
17.5°	2721.5	2725.1	2743.2	2773.2	2805.7	2853.9	2904.4	2957.3	3006.7	3050.0	3089.7
20°	2805.7	2809.3	2832.2	2864.7	2903.2	2952.5	3003.0	3058.4	3113.7	3159.5	3204.0
22.5°	2924.8	2930.9	2952.5	2985.0	3028.3	3081.3	3141.4	3200.4	3253.3	3295.4	3335.1
25°	3081.3	3094.5	3114.9	3151.0	3196.8	3244.9	3309.8	3370.0	3420.5	3460.2	3489.1
27.5°	3302.6	3320.7	3336.3	3371.2	3415.7	3461.4	3526.4	3579.4	3627.5	3666.0	3687.6
30°	3596.2	3614.2	3629.9	3663.6	3704.5	3747.8	3809.2	3856.1	3886.2	3916.2	3915.0
32.5°	3952.3	3971.6	3977.6	4013.7	4055.8	4102.7	4158.1	4184.5	4208.6	4212.2	4190.5
35°	4350.6	4360.2	4384.3	4432.4	4480.5	4519.0	4571.9	4585.2	4585.2	4567.1	4519.0
37.5°	4787.3	4793.3	4827.0	4881.2	4930.5	4970.2	5006.3	5032.8	5019.5	4981.0	4900.4
40°	5266.2	5277.0	5325.1	5373.2	5428.6	5465.9	5504.4	5509.2	5496.0	5439.4	5329.9
42.5°	5723.4	5733.0	5781.1	5856.9	5929.1	5980.8	6016.9	6024.1	5982.0	5930.3	5794.3
45°	6116.8	6142.0	6204.6	6293.6	6398.3	6471.7	6521.0	6541.5	6504.2	6436.8	6279.2
47.5°	6428.4	6453.7	6542.7	6648.6	6778.5	6897.6	6979.4	7022.7	7013.1	6962.6	6790.5
50°	6657.0	6681.1	6777.3	6907.2	7058.8	7206.8	7346.4	7449.9	7486.0	7463.1	7305.5
52.5°	6683.5	6723.2	6836.3	7010.7	7208.0	7410.2	7608.7	7784.3	7903.5	7921.5	7804.8
55°	6314.1	6353.8	6510.2	6768.9	7062.5	7392.1	7709.7	8005.7	8240.3	8360.6	8299.3
57.5°	5443.0	5514.0	5678.8	5982.0	6414.0	6907.2	7413.8	7939.5	8417.2	8736.0	8797.4
60°	4171.3	4255.5	4421.6	4744.0	5225.3	5813.6	6489.8	7267.0	8110.4	8827.5	9255.8
62.5°	2675.8	2755.2	2929.7	3210.0	3602.2	4239.9	4965.4	5888.2	7021.5	8153.7	9174.0
65°	1375.2	1418.5	1509.9	1679.6	1985.2	2461.6	3112.5	4032.9	5328.7	6725.6	8200.6
67.5°	871.1	879.5	900.0	924.0	1002.2	1167.0	1470.2	2044.1	3110.1	4567.1	6293.6
70°	753.2	753.2	743.5	739.9	749.6	772.4	819.3	952.9	1312.6	2168.1	3629.9
72.5°	689.4	682.2	665.3	652.1	649.7	649.7	659.3	679.8	737.5	883.1	1420.9
75°	635.3	614.8	591.9	576.3	570.3	564.3	563.1	566.7	578.7	601.6	678.6
77.5°	569.1	542.6	516.1	500.5	493.3	484.9	477.6	469.2	463.2	470.4	504.1
80°	489.7	459.6	439.1	429.5	422.3	410.3	394.6	380.2	367.0	364.6	385.0
82.5°	394.6	359.7	360.9	364.6	351.3	334.5	317.6	302.0	279.1	267.1	279.1
85°	318.8	300.8	292.4	315.2	296.0	270.7	244.2	216.6	180.5	151.6	164.8
87.5°	123.9	123.9	185.3	285.1	256.3	209.3	179.3	152.8	95.0	73.4	74.6
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°	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8	2823.8
2.5°	2828.6	2831.0	2829.8	2828.6	2828.6	2827.4	2828.6	2828.6
5°	2850.2	2856.3	2856.3	2858.7	2858.7	2859.9	2861.1	2859.9
7.5°	2882.7	2893.6	2900.8	2909.2	2910.4	2911.6	2914.0	2911.6
10°	2915.2	2936.9	2952.5	2968.2	2975.4	2977.8	2980.2	2980.2
12.5°	2956.1	2986.2	3013.9	3041.5	3054.8	3062.0	3062.0	3066.8
15°	3023.5	3053.6	3086.1	3123.4	3146.2	3158.3	3161.9	3161.9
17.5°	3118.5	3145.0	3172.7	3208.8	3237.7	3253.3	3256.9	3255.7
20°	3229.2	3254.5	3270.1	3293.0	3318.3	3336.3	3341.1	3341.1
22.5°	3355.6	3370.0	3372.4	3379.6	3400.1	3424.1	3435.0	3437.4
25°	3495.1	3498.7	3489.1	3489.1	3502.4	3525.2	3536.0	3537.2
27.5°	3675.6	3657.6	3633.5	3625.1	3633.5	3660.0	3673.2	3678.0
30°	3900.6	3857.3	3801.9	3771.9	3767.0	3801.9	3826.0	3829.6
32.5°	4158.1	4095.5	4022.1	3960.7	3945.1	3966.8	3995.6	3994.4
35°	4463.7	4389.1	4300.0	4221.8	4185.7	4207.4	4248.3	4253.1
37.5°	4816.2	4718.7	4616.5	4517.8	4461.3	4467.3	4510.6	4525.0
40°	5209.6	5083.3	4954.5	4822.2	4741.6	4725.9	4778.9	4787.3
42.5°	5630.7	5468.3	5305.9	5142.2	5038.8	5014.7	5076.1	5072.5
45°	6079.5	5872.5	5682.4	5502.0	5379.3	5343.2	5393.7	5393.7
47.5°	6561.9	6306.9	6080.7	5876.2	5742.6	5690.9	5739.0	5742.6
50°	7073.3	6802.6	6536.7	6309.3	6149.3	6083.1	6145.7	6155.3
52.5°	7582.2	7318.7	7050.4	6790.5	6596.8	6516.2	6588.4	6619.7
55°	8098.4	7839.7	7583.4	7329.6	7099.8	7004.7	7081.7	7121.4
57.5°	8643.4	8404.0	8159.7	7903.5	7682.1	7534.1	7615.9	7668.8
60°	9282.3	9077.7	8823.9	8541.1	8317.3	8166.9	8213.9	8260.8
62.5°	9787.6	9867.0	9651.6	9324.4	9036.8	8844.3	8890.0	8939.4
65°	9543.3	10357.9	10549.2	10218.3	9820.1	9520.5	9501.2	9526.5
67.5°	7976.8	9559.0	10712.8	11028.0	10694.7	10278.5	10201.5	10238.8
70°	5335.9	7306.7	9342.4	10858.4	11261.4	11100.2	11024.4	11047.3
72.5°	2562.7	4255.5	6338.2	8353.4	9580.6	10143.7	10324.2	10412.0
75°	937.2	1689.2	3054.8	4603.2	5557.3	6433.2	7004.7	7238.1
77.5°	565.5	682.2	975.7	1469.0	1663.9	1862.5	1785.5	1824.0
80°	418.7	472.8	535.4	601.6	623.2	623.2	599.2	579.9
82.5°	293.6	328.5	358.5	394.6	404.3	386.2	317.6	252.7
85°	188.9	204.5	217.8	240.6	234.6	223.8	150.4	133.5
87.5°	86.6	98.7	103.5	114.3	109.5	104.7	74.6	62.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)