

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: P300626

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300626
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 28341.3 lumens
Efficiency: N/A
Efficacy: 113.8 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

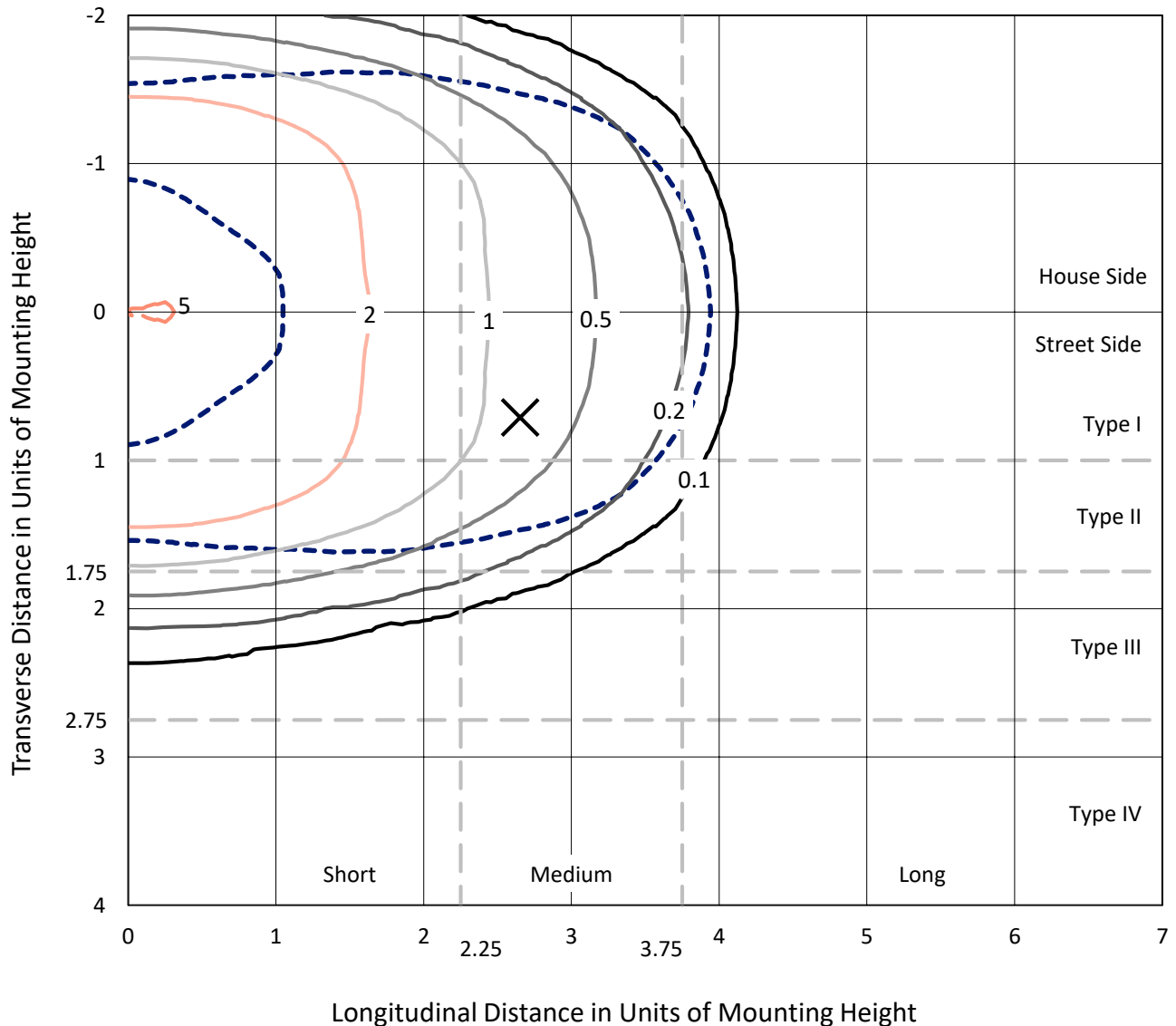
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

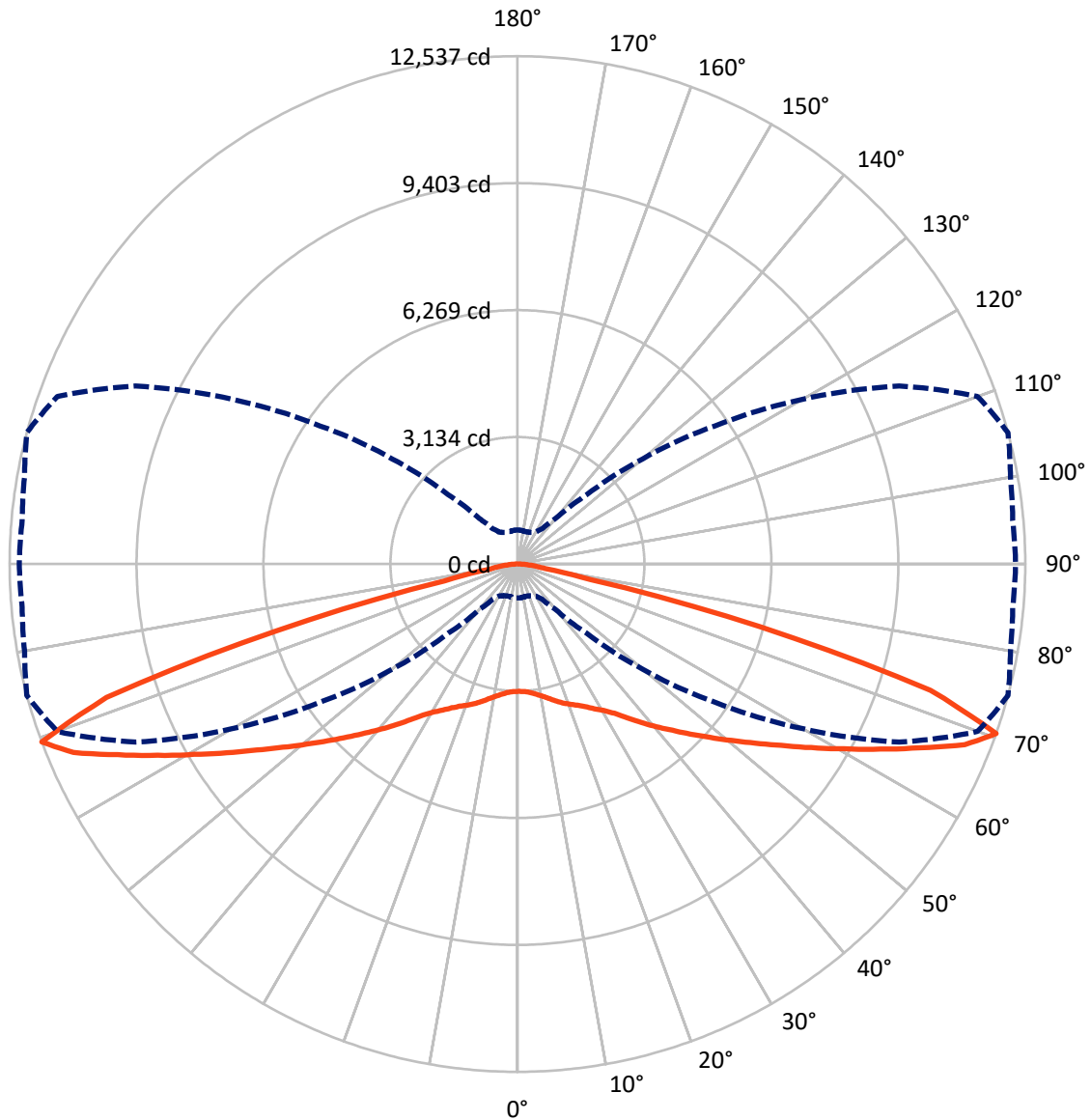
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	14170.7	0.0	14170.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14170.7	0.0	14170.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	28341.3	0.0	28341.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	1.1
10°-20°	936.8	3.3
20°-30°	1763.3	6.2
30°-40°	3122.4	11.0
40°-50°	5221.6	18.4
50°-60°	7276.3	25.7
60°-70°	6747.6	23.8
70°-80°	2689.1	9.5
80°-90°	282.7	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°	28341.3	100.0
0°-180°	28341.3	100.0



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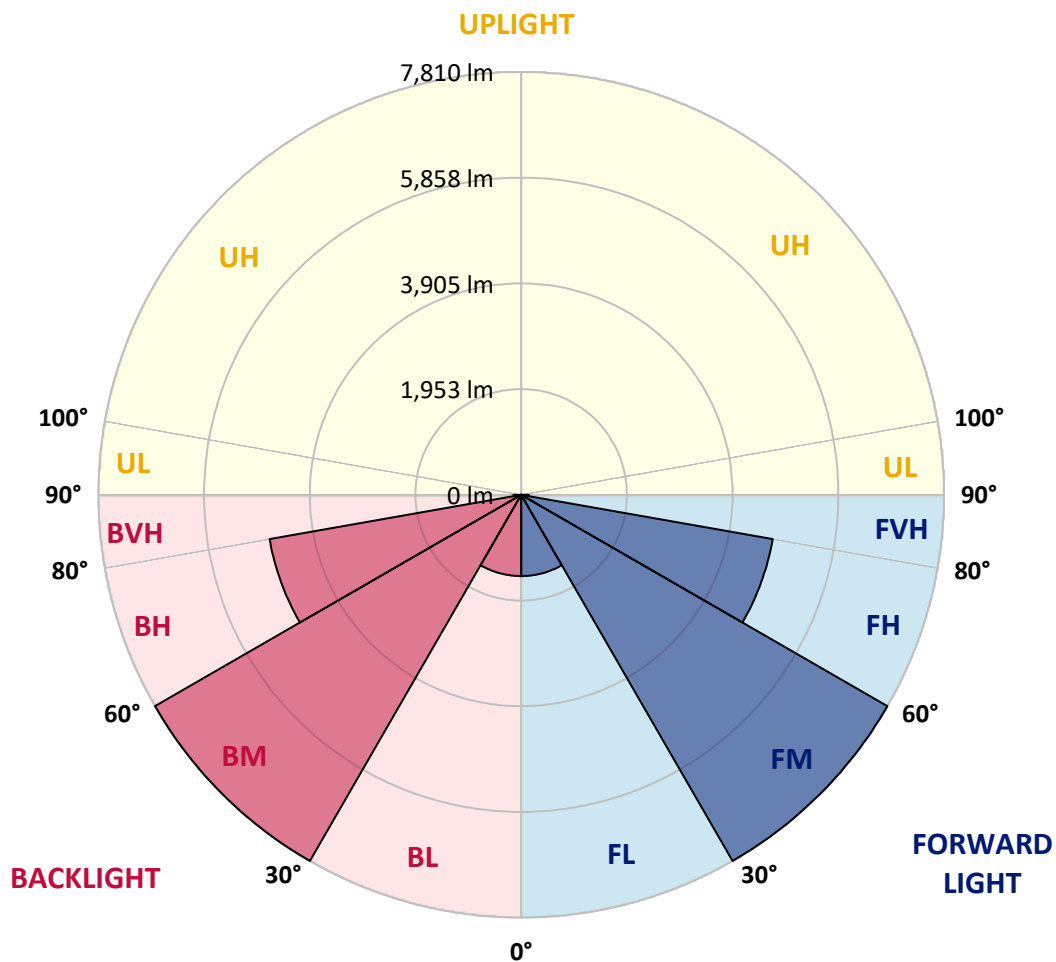
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1500.8	5.3			
FM	(30°-60°)	7810.2	27.6			
FH	(60°-80°)	4718.4	16.6			G2/5000
FVH	(80°-90°)	141.3	0.5			G2/225
BL	(0°-30°)	1500.8	5.3	B3/2500		
BM	(30°-60°)	7810.2	27.6	B4/8500		
BH	(60°-80°)	4718.4	16.6	B4/5000		G4/5000
BVH	(80°-90°)	141.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7
2.5°	3138.4	3135.7	3138.4	3137.0	3139.7	3139.7	3142.4	3147.7	3147.7	3151.8	3150.4
5°	3107.6	3106.2	3110.2	3114.2	3118.3	3126.3	3134.3	3146.4	3155.8	3162.5	3169.2
7.5°	3047.3	3047.3	3052.6	3062.0	3071.4	3088.8	3107.6	3131.7	3155.8	3175.9	3193.3
10°	2997.7	3000.4	3007.1	3023.2	3039.2	3066.0	3091.5	3126.3	3159.8	3193.3	3220.1
12.5°	2968.2	2972.3	2984.3	3008.4	3035.2	3071.4	3110.2	3154.4	3191.9	3232.1	3258.9
15°	2977.6	2980.3	2997.7	3027.2	3062.0	3107.6	3159.8	3212.0	3256.2	3299.1	3335.3
17.5°	3029.9	3033.9	3054.0	3087.5	3123.6	3177.2	3233.5	3292.4	3347.3	3395.5	3439.7
20°	3123.6	3127.6	3153.1	3189.3	3232.1	3287.0	3343.3	3404.9	3466.5	3517.4	3567.0
22.5°	3256.2	3262.9	3287.0	3323.2	3371.4	3430.4	3497.3	3563.0	3621.9	3668.8	3713.0
25°	3430.4	3445.1	3467.9	3508.0	3558.9	3612.5	3684.9	3751.8	3808.1	3852.3	3884.4
27.5°	3676.8	3696.9	3714.3	3753.2	3802.7	3853.6	3926.0	3984.9	4038.5	4081.3	4105.4
30°	4003.7	4023.7	4041.2	4078.7	4124.2	4172.4	4240.7	4293.0	4326.5	4359.9	4358.6
32.5°	4400.1	4421.6	4428.3	4468.4	4515.3	4567.6	4629.2	4658.6	4685.4	4689.5	4665.3
35°	4843.5	4854.2	4881.0	4934.6	4988.2	5031.0	5090.0	5104.7	5104.7	5084.6	5031.0
37.5°	5329.7	5336.4	5373.9	5434.2	5489.1	5533.3	5573.5	5603.0	5588.2	5545.4	5455.6
40°	5862.8	5874.9	5928.5	5982.0	6043.7	6085.2	6128.0	6133.4	6118.7	6055.7	5933.8
42.5°	6371.8	6382.5	6436.1	6520.5	6600.9	6658.5	6698.6	6706.7	6659.8	6602.2	6450.8
45°	6809.8	6838.0	6907.6	7006.7	7123.3	7205.0	7259.9	7282.7	7241.1	7166.1	6990.6
47.5°	7156.7	7184.9	7284.0	7401.9	7546.5	7679.1	7770.2	7818.4	7807.7	7751.5	7559.9
50°	7411.2	7438.0	7545.2	7689.8	7858.6	8023.4	8178.8	8293.9	8334.1	8308.7	8133.2
52.5°	7440.7	7484.9	7610.8	7805.0	8024.7	8249.7	8470.8	8666.3	8798.9	8819.0	8689.1
55°	7029.5	7073.7	7247.8	7535.8	7862.6	8229.7	8583.3	8912.8	9174.0	9307.9	9239.6
57.5°	6059.7	6138.8	6322.3	6659.8	7140.7	7689.8	8253.8	8839.1	9370.9	9725.8	9794.1
60°	4643.9	4737.7	4922.5	5281.5	5817.3	6472.3	7225.1	8090.3	9029.3	9827.6	10304.5
62.5°	2979.0	3067.4	3261.6	3573.7	4010.3	4720.3	5528.0	6555.3	7817.1	9077.5	10213.4
65°	1531.0	1579.2	1681.0	1869.9	2210.1	2740.5	3465.2	4489.9	5932.5	7487.6	9129.8
67.5°	969.8	979.1	1001.9	1028.7	1115.8	1299.3	1636.8	2275.7	3462.5	5084.6	7006.7
70°	838.5	838.5	827.8	823.8	834.5	859.9	912.2	1060.9	1461.4	2413.7	4041.2
72.5°	767.5	759.5	740.7	726.0	723.3	723.3	734.0	756.8	821.1	983.2	1581.9
75°	707.2	684.5	659.0	641.6	634.9	628.2	626.9	630.9	644.3	669.7	755.5
77.5°	633.6	604.1	574.6	557.2	549.2	539.8	531.8	522.4	515.7	523.7	561.2
80°	545.2	511.7	488.9	478.2	470.2	456.8	439.3	423.3	408.5	405.9	428.6
82.5°	439.3	400.5	401.8	405.9	391.1	372.4	353.6	336.2	310.8	297.4	310.8
85°	355.0	334.9	325.5	350.9	329.5	301.4	271.9	241.1	200.9	168.8	183.5
87.5°	138.0	138.0	206.3	317.5	285.3	233.1	199.6	170.1	105.8	81.7	83.0
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°	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7	3143.7
2.5°	3149.1	3151.8	3150.4	3149.1	3149.1	3147.7	3149.1	3149.1
5°	3173.2	3179.9	3179.9	3182.6	3182.6	3183.9	3185.2	3183.9
7.5°	3209.3	3221.4	3229.4	3238.8	3240.2	3241.5	3244.2	3241.5
10°	3245.5	3269.6	3287.0	3304.5	3312.5	3315.2	3317.8	3317.8
12.5°	3291.1	3324.5	3355.4	3386.2	3400.9	3408.9	3408.9	3414.3
15°	3366.1	3399.6	3435.7	3477.2	3502.7	3516.1	3520.1	3520.1
17.5°	3471.9	3501.4	3532.2	3572.3	3604.5	3621.9	3625.9	3624.6
20°	3595.1	3623.2	3640.7	3666.1	3694.2	3714.3	3719.7	3719.7
22.5°	3735.8	3751.8	3754.5	3762.5	3785.3	3812.1	3824.2	3826.8
25°	3891.1	3895.2	3884.4	3884.4	3899.2	3924.6	3936.7	3938.0
27.5°	4092.1	4072.0	4045.2	4035.8	4045.2	4074.6	4089.4	4094.7
30°	4342.5	4294.3	4232.7	4199.2	4193.9	4232.7	4259.5	4263.5
32.5°	4629.2	4559.5	4477.8	4409.5	4392.1	4416.2	4448.4	4447.0
35°	4969.4	4886.4	4787.2	4700.2	4660.0	4684.1	4729.6	4735.0
37.5°	5361.9	5253.4	5139.5	5029.7	4966.7	4973.4	5021.6	5037.7
40°	5799.9	5659.2	5515.9	5368.6	5278.8	5261.4	5320.3	5329.7
42.5°	6268.7	6087.9	5907.0	5724.9	5609.7	5582.9	5651.2	5647.2
45°	6768.3	6537.9	6326.3	6125.4	5988.7	5948.5	6004.8	6004.8
47.5°	7305.4	7021.5	6769.6	6541.9	6393.2	6335.7	6389.2	6393.2
50°	7874.7	7573.3	7277.3	7024.1	6846.0	6772.3	6842.0	6852.7
52.5°	8441.3	8147.9	7849.2	7559.9	7344.3	7254.5	7334.9	7369.7
55°	9015.9	8727.9	8442.6	8160.0	7904.2	7798.3	7884.1	7928.3
57.5°	9622.7	9356.1	9084.2	8798.9	8552.5	8387.7	8478.8	8537.7
60°	10333.9	10106.2	9823.6	9508.8	9259.7	9092.3	9144.5	9196.7
62.5°	10896.5	10984.9	10745.2	10380.8	10060.7	9846.4	9897.3	9952.2
65°	10624.6	11531.4	11744.4	11376.0	10932.7	10599.2	10577.7	10605.9
67.5°	8880.6	10642.0	11926.6	12277.5	11906.5	11443.0	11357.3	11398.8
70°	5940.5	8134.5	10400.9	12088.6	12537.4	12357.9	12273.5	12298.9
72.5°	2853.1	4737.7	7056.3	9299.9	10666.1	11293.0	11493.9	11591.7
75°	1043.4	1880.6	3400.9	5124.8	6187.0	7162.1	7798.3	8058.2
77.5°	629.5	759.5	1086.3	1635.5	1852.5	2073.5	1987.8	2030.6
80°	466.1	526.4	596.1	669.7	693.8	693.8	667.1	645.6
82.5°	326.8	365.7	399.2	439.3	450.1	430.0	353.6	281.3
85°	210.3	227.7	242.4	267.9	261.2	249.1	167.4	148.7
87.5°	96.4	109.8	115.2	127.2	121.9	116.5	83.0	69.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)