

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: P300688

Luminaire Tested: **GLNA-AF-06-LED-E1-RW-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300688
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-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23891.9 lumens
Efficiency: N/A
Efficacy: 123.8 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

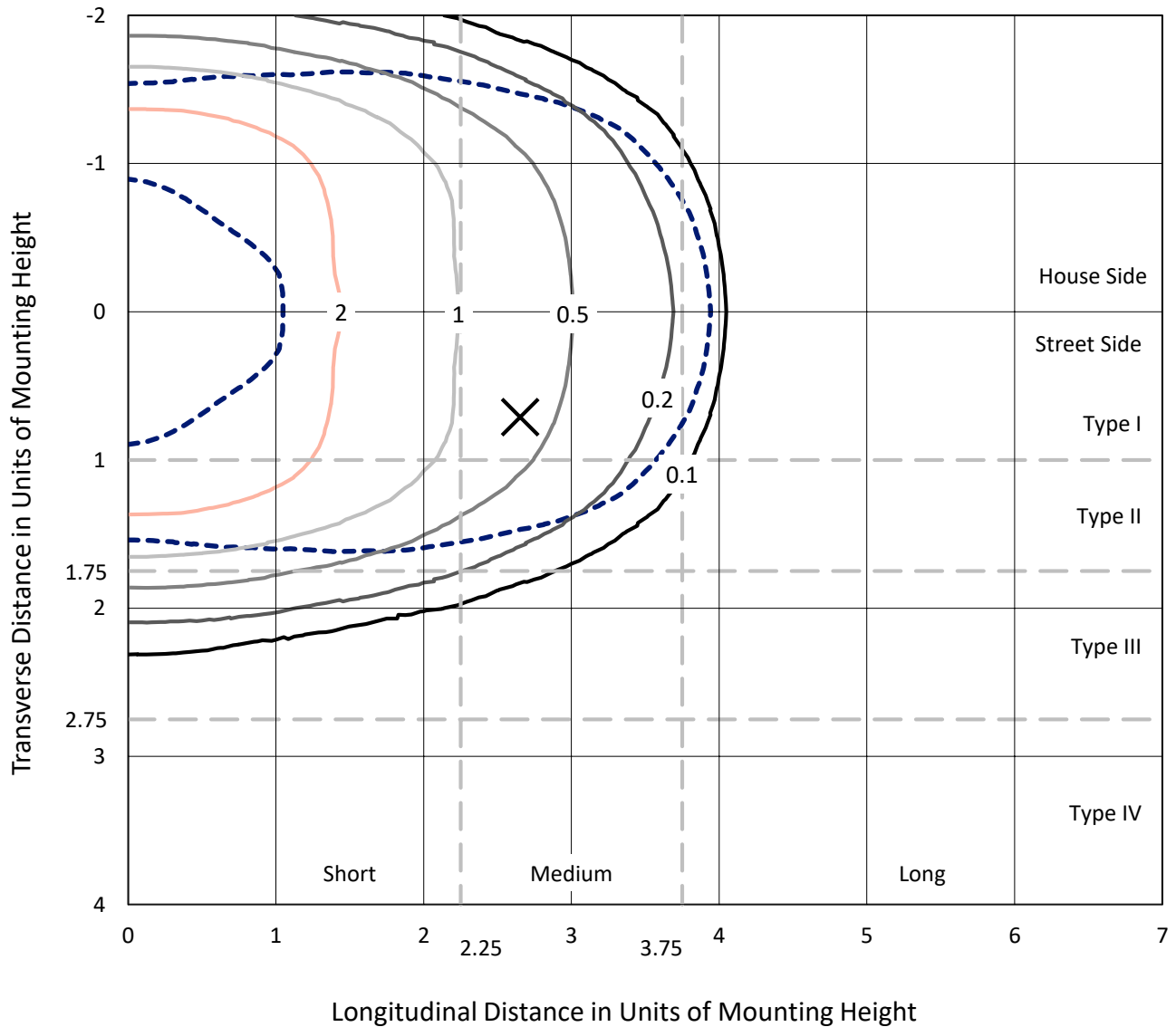
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

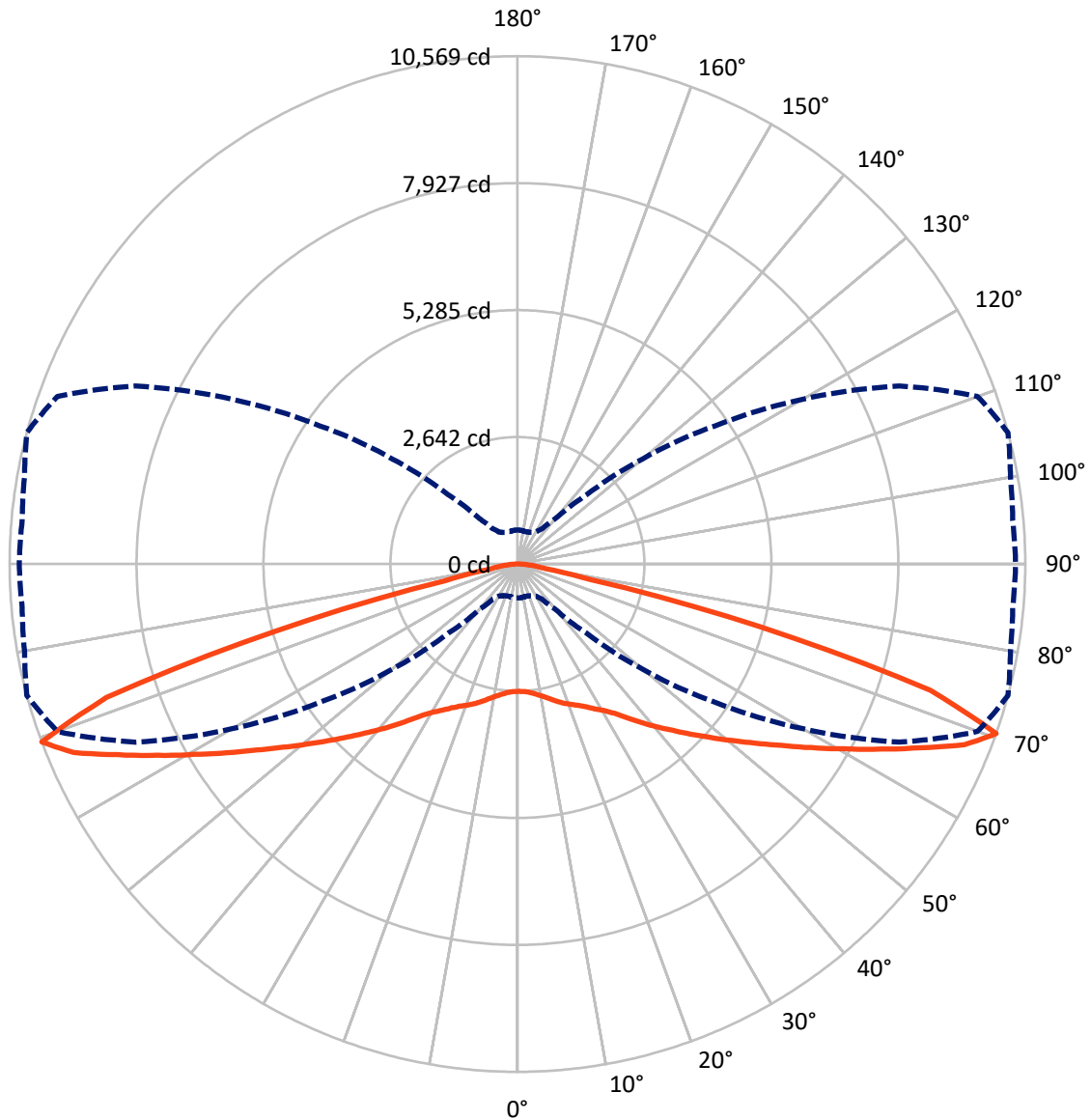
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	11946.0	0.0	11946.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11946.0	0.0	11946.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23891.9	0.0	23891.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	1.1
10°-20°	789.7	3.3
20°-30°	1486.4	6.2
30°-40°	2632.2	11.0
40°-50°	4401.9	18.4
50°-60°	6134.0	25.7
60°-70°	5688.3	23.8
70°-80°	2267.0	9.5
80°-90°	238.3	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°	23891.9	100.0
0°-180°	23891.9	100.0



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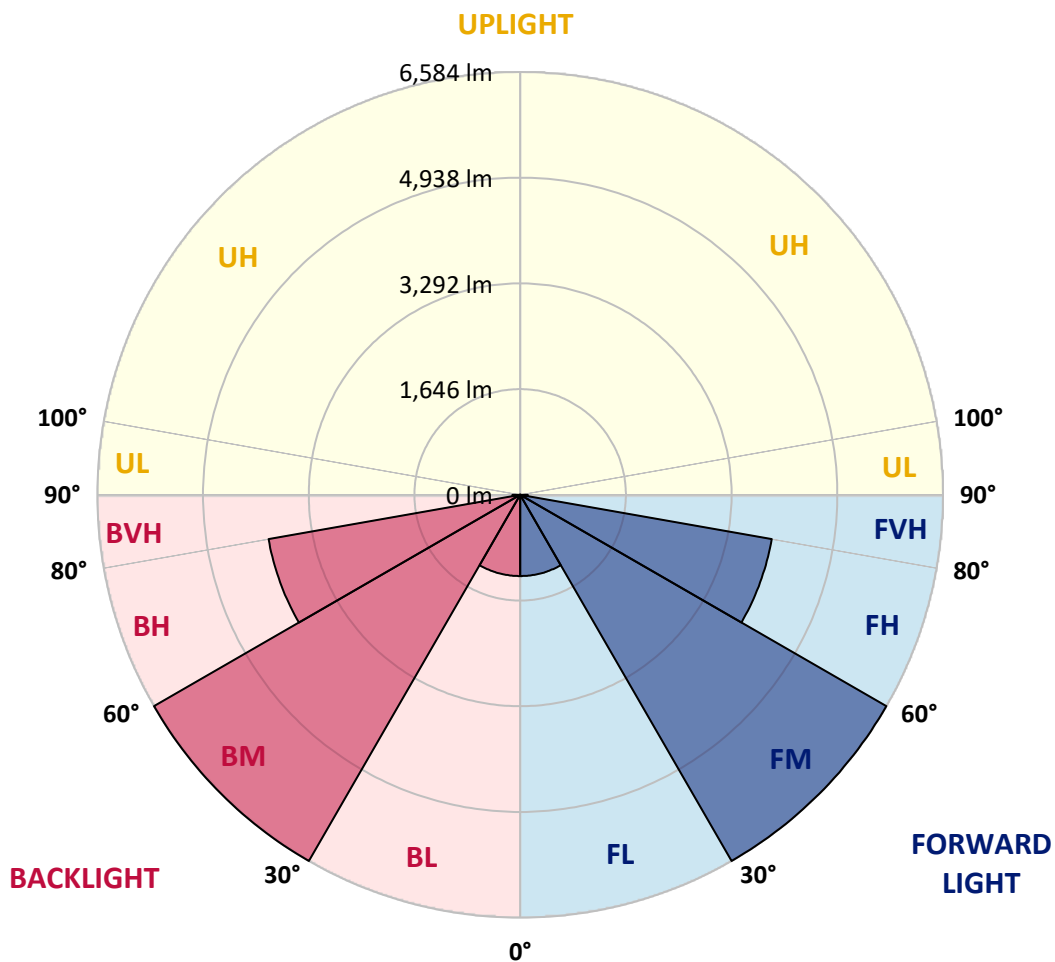
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1265.2	5.3			
FM	(30°-60°)	6584.0	27.6			
FH	(60°-80°)	3977.6	16.6			G2/5000
FVH	(80°-90°)	119.1	0.5			G2/225
BL	(0°-30°)	1265.2	5.3	B3/2500		
BM	(30°-60°)	6584.0	27.6	B4/8500		
BH	(60°-80°)	3977.6	16.6	B4/5000		G4/5000
BVH	(80°-90°)	119.1	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°	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2645.7	2643.4	2645.7	2644.5	2646.8	2646.8	2649.0	2653.6	2653.6	2656.9	2655.8
5°	2619.7	2618.6	2621.9	2625.3	2628.7	2635.5	2642.3	2652.4	2660.3	2666.0	2671.6
7.5°	2568.9	2568.9	2573.4	2581.3	2589.2	2603.9	2619.7	2640.0	2660.3	2677.3	2691.9
10°	2527.1	2529.3	2535.0	2548.5	2562.1	2584.7	2606.1	2635.5	2663.7	2691.9	2714.5
12.5°	2502.2	2505.6	2515.8	2536.1	2558.7	2589.2	2621.9	2659.2	2690.8	2724.7	2747.3
15°	2510.2	2512.4	2527.1	2551.9	2581.3	2619.7	2663.7	2707.8	2745.0	2781.2	2811.6
17.5°	2554.2	2557.6	2574.5	2602.7	2633.2	2678.4	2725.8	2775.5	2821.8	2862.5	2899.7
20°	2633.2	2636.6	2658.1	2688.6	2724.7	2771.0	2818.4	2870.4	2922.3	2965.2	3007.0
22.5°	2745.0	2750.7	2771.0	2801.5	2842.1	2891.8	2948.3	3003.6	3053.3	3092.8	3130.1
25°	2891.8	2904.2	2923.4	2957.3	3000.2	3045.4	3106.4	3162.8	3210.2	3247.5	3274.6
27.5°	3099.6	3116.5	3131.2	3163.9	3205.7	3248.6	3309.6	3359.3	3404.5	3440.6	3460.9
30°	3375.1	3392.0	3406.7	3438.3	3476.7	3517.4	3575.0	3619.0	3647.2	3675.5	3674.3
32.5°	3709.3	3727.4	3733.0	3766.9	3806.4	3850.5	3902.4	3927.3	3949.8	3953.2	3932.9
35°	4083.1	4092.1	4114.7	4159.9	4205.0	4241.2	4290.9	4303.3	4303.3	4286.3	4241.2
37.5°	4493.0	4498.6	4530.2	4581.1	4627.4	4664.6	4698.5	4723.3	4710.9	4674.8	4599.1
40°	4942.4	4952.6	4997.7	5042.9	5094.8	5129.8	5166.0	5170.5	5158.1	5105.0	5002.2
42.5°	5371.5	5380.5	5425.7	5496.8	5564.6	5613.1	5647.0	5653.8	5614.3	5565.7	5438.1
45°	5740.7	5764.4	5823.1	5906.7	6004.9	6073.8	6120.1	6139.3	6104.3	6041.1	5893.2
47.5°	6033.2	6056.9	6140.4	6239.8	6361.8	6473.6	6550.3	6591.0	6582.0	6534.5	6373.1
50°	6247.7	6270.3	6360.6	6482.6	6624.9	6763.8	6894.7	6991.8	7025.7	7004.3	6856.3
52.5°	6272.6	6309.8	6416.0	6579.7	6764.9	6954.6	7140.9	7305.8	7417.5	7434.5	7324.9
55°	5925.9	5963.2	6110.0	6352.7	6628.2	6937.6	7235.7	7513.5	7733.7	7846.6	7789.0
57.5°	5108.4	5175.0	5329.7	5614.3	6019.6	6482.6	6958.0	7451.4	7899.7	8198.9	8256.5
60°	3914.8	3993.9	4149.7	4452.3	4904.0	5456.2	6090.8	6820.2	7611.8	8284.7	8686.7
62.5°	2511.3	2585.8	2749.5	3012.6	3380.7	3979.2	4660.1	5526.2	6589.9	7652.4	8609.9
65°	1290.6	1331.3	1417.1	1576.3	1863.1	2310.3	2921.2	3785.0	5001.1	6312.1	7696.4
67.5°	817.5	825.4	844.6	867.2	940.6	1095.3	1379.9	1918.5	2918.9	4286.3	5906.7
70°	706.9	706.9	697.8	694.4	703.5	724.9	769.0	894.3	1231.9	2034.8	3406.7
72.5°	647.0	640.2	624.4	612.0	609.8	609.8	618.8	638.0	692.2	828.8	1333.6
75°	596.2	577.0	555.6	540.9	535.2	529.6	528.5	531.8	543.1	564.6	636.9
77.5°	534.1	509.3	484.4	469.7	463.0	455.1	448.3	440.4	434.7	441.5	473.1
80°	459.6	431.3	412.1	403.1	396.3	385.0	370.4	356.8	344.4	342.1	361.3
82.5°	370.4	337.6	338.8	342.1	329.7	313.9	298.1	283.4	262.0	250.7	262.0
85°	299.2	282.3	274.4	295.8	277.8	254.1	229.2	203.3	169.4	142.3	154.7
87.5°	116.3	116.3	173.9	267.6	240.5	196.5	168.2	143.4	89.2	68.9	70.0
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°	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2	2650.2
2.5°	2654.7	2656.9	2655.8	2654.7	2654.7	2653.6	2654.7	2654.7
5°	2675.0	2680.7	2680.7	2682.9	2682.9	2684.0	2685.2	2684.0
7.5°	2705.5	2715.7	2722.4	2730.3	2731.5	2732.6	2734.9	2732.6
10°	2736.0	2756.3	2771.0	2785.7	2792.4	2794.7	2797.0	2797.0
12.5°	2774.4	2802.6	2828.6	2854.6	2867.0	2873.7	2873.7	2878.3
15°	2837.6	2865.8	2896.3	2931.3	2952.8	2964.1	2967.5	2967.5
17.5°	2926.8	2951.7	2977.6	3011.5	3038.6	3053.3	3056.7	3055.5
20°	3030.7	3054.4	3069.1	3090.5	3114.3	3131.2	3135.7	3135.7
22.5°	3149.3	3162.8	3165.1	3171.8	3191.0	3213.6	3223.8	3226.0
25°	3280.2	3283.6	3274.6	3274.6	3287.0	3308.5	3318.6	3319.8
27.5°	3449.6	3432.7	3410.1	3402.2	3410.1	3434.9	3447.4	3451.9
30°	3660.8	3620.1	3568.2	3540.0	3535.4	3568.2	3590.8	3594.2
32.5°	3902.4	3843.7	3774.8	3717.2	3702.6	3722.9	3750.0	3748.9
35°	4189.2	4119.2	4035.7	3962.3	3928.4	3948.7	3987.1	3991.6
37.5°	4520.1	4428.6	4332.6	4240.0	4187.0	4192.6	4233.3	4246.8
40°	4889.3	4770.8	4649.9	4525.7	4450.1	4435.4	4485.1	4493.0
42.5°	5284.5	5132.1	4979.7	4826.1	4729.0	4706.4	4764.0	4760.6
45°	5705.7	5511.5	5333.1	5163.7	5048.5	5014.7	5062.1	5062.1
47.5°	6158.5	5919.1	5706.8	5514.9	5389.5	5341.0	5386.2	5389.5
50°	6638.4	6384.3	6134.8	5921.4	5771.2	5709.1	5767.8	5776.9
52.5°	7116.1	6868.8	6617.0	6373.1	6191.3	6115.6	6183.4	6212.7
55°	7600.5	7357.7	7117.2	6878.9	6663.3	6574.0	6646.3	6683.6
57.5°	8112.0	7887.3	7658.1	7417.5	7209.8	7070.9	7147.7	7197.4
60°	8711.6	8519.6	8281.4	8016.0	7806.0	7664.8	7708.9	7752.9
62.5°	9185.8	9260.4	9058.2	8751.1	8481.2	8300.6	8343.5	8389.8
65°	8956.6	9721.1	9900.6	9590.1	9216.3	8935.2	8917.1	8940.8
67.5°	7486.4	8971.3	10054.2	10350.0	10037.2	9646.5	9574.3	9609.3
70°	5007.9	6857.5	8768.0	10190.8	10569.1	10417.8	10346.6	10368.1
72.5°	2405.1	3993.9	5948.5	7839.9	8991.6	9520.1	9689.4	9771.9
75°	879.6	1585.4	2867.0	4320.2	5215.7	6037.7	6574.0	6793.1
77.5°	530.7	640.2	915.8	1378.7	1561.6	1748.0	1675.7	1711.8
80°	393.0	443.8	502.5	564.6	584.9	584.9	562.3	544.3
82.5°	275.5	308.3	336.5	370.4	379.4	362.5	298.1	237.1
85°	177.3	192.0	204.4	225.8	220.2	210.0	141.1	125.3
87.5°	81.3	92.6	97.1	107.3	102.8	98.2	70.0	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)