

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: P299918

Luminaire Tested: **GLNA-AF-08-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-5WQ-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39128.8 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 334
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

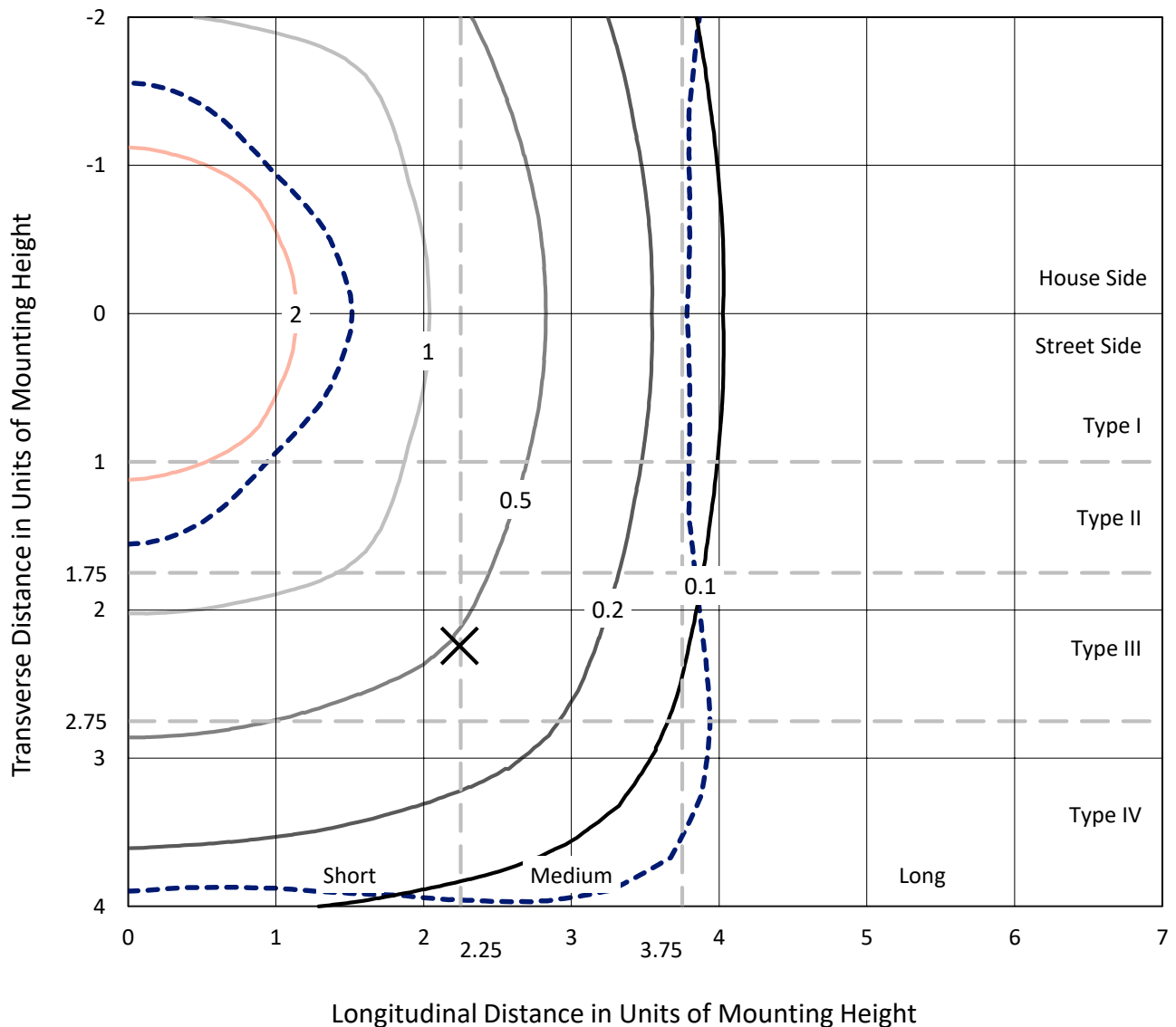


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

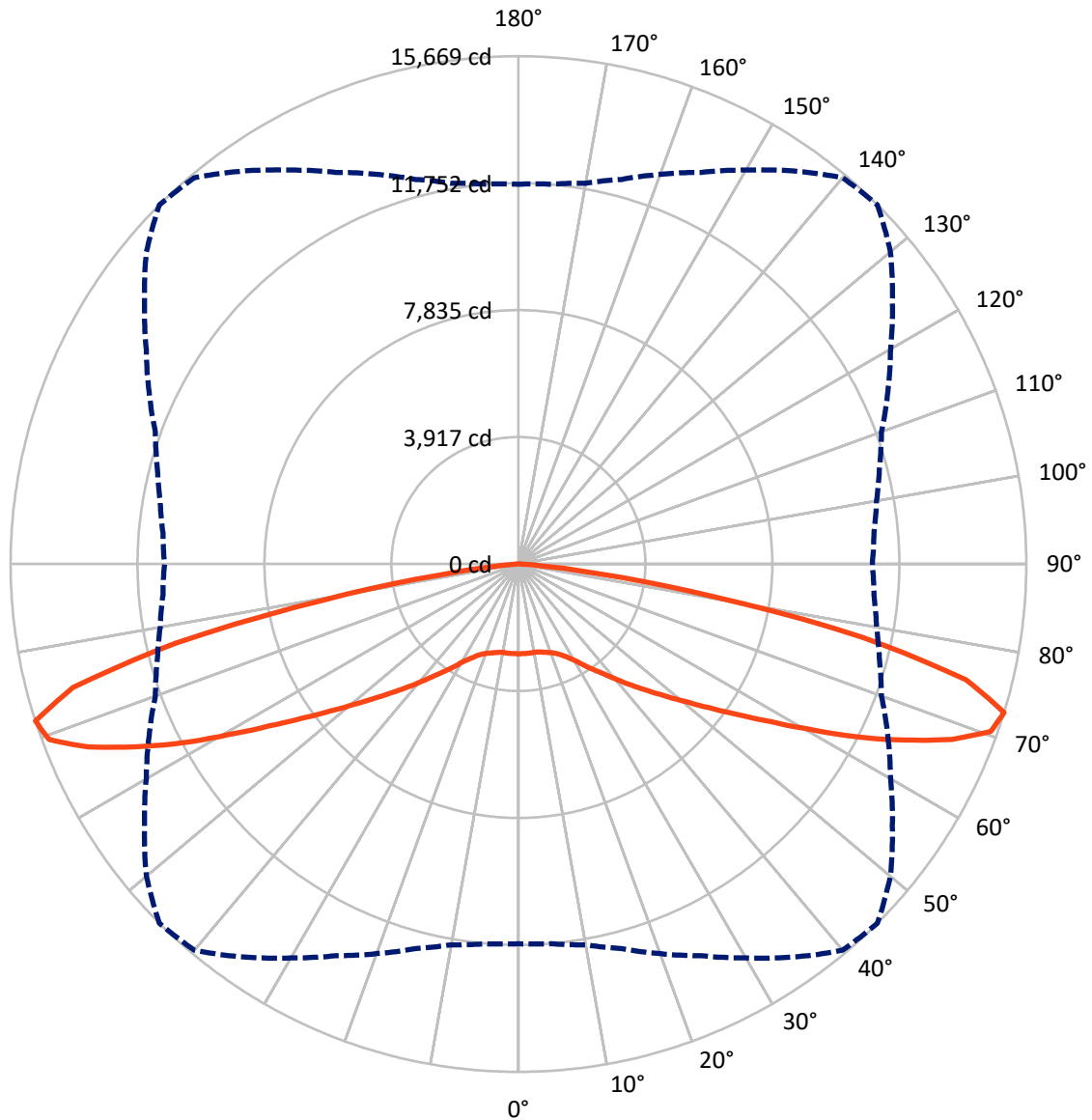


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19564.4	0.0	19564.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19564.4	0.0	19564.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	39128.8	0.0	39128.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	0.7
10°-20°	803.6	2.1
20°-30°	1468.5	3.8
30°-40°	2531.9	6.5
40°-50°	4328.3	11.1
50°-60°	7015.7	17.9
60°-70°	11638.7	29.7
70°-80°	10251.0	26.2
80°-90°	826.5	2.1
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°	39128.8	100.0
0°-180°	39128.8	100.0



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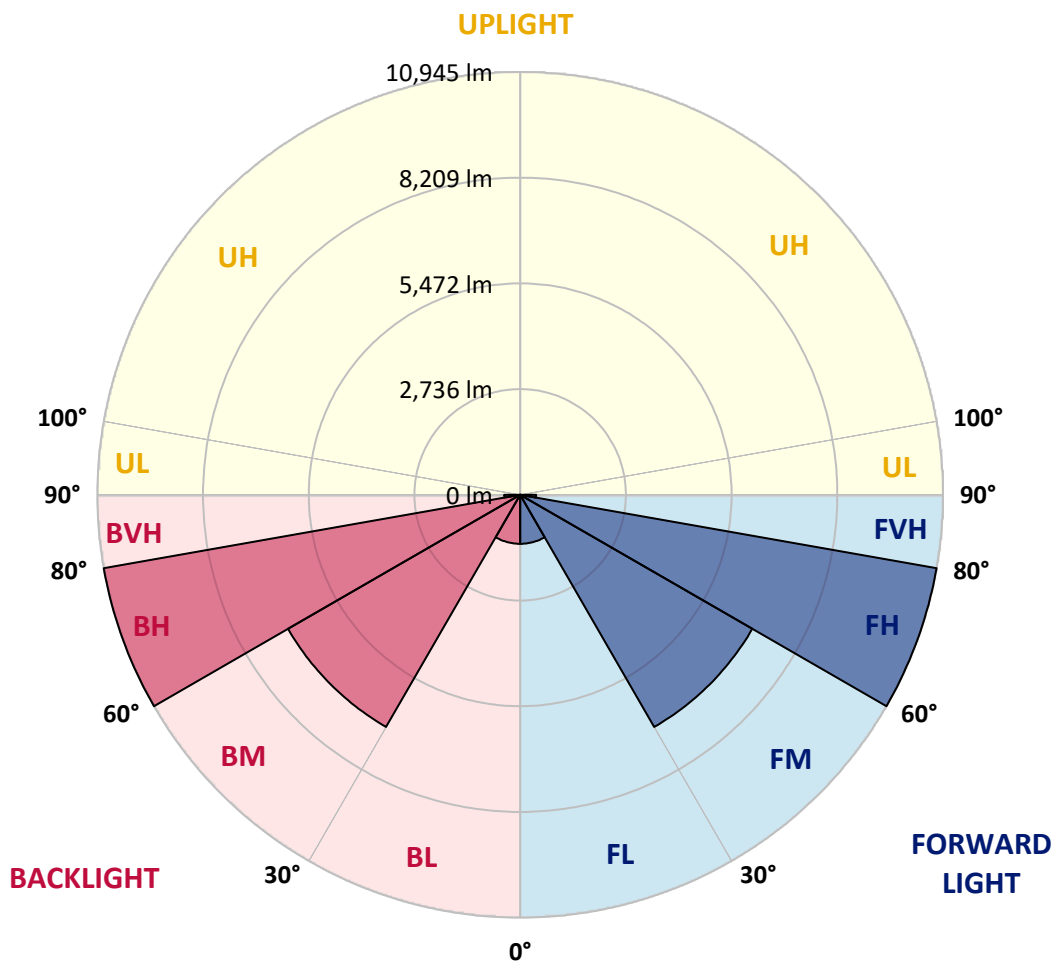
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.3	3.2			
FM	(30°-60°)	6938.0	17.7			
FH	(60°-80°)	10944.9	28.0			G4/12000
FVH	(80°-90°)	413.3	1.1			G3/500
BL	(0°-30°)	1268.3	3.2	B3/2500		
BM	(30°-60°)	6938.0	17.7	B4/8500		
BH	(60°-80°)	10944.9	28.0	B5		G4/12000
BVH	(80°-90°)	413.3	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9
2.5°	2770.9	2772.7	2774.5	2772.7	2772.7	2770.9	2769.1	2770.9	2769.1	2765.5	2767.3
5°	2779.9	2783.5	2783.5	2779.9	2781.7	2779.9	2776.3	2778.1	2774.5	2769.1	2769.1
7.5°	2790.7	2792.5	2792.5	2788.9	2790.7	2787.1	2783.5	2781.7	2778.1	2770.9	2765.5
10°	2806.8	2808.6	2806.8	2803.2	2803.2	2797.9	2788.9	2785.3	2778.1	2767.3	2762.0
12.5°	2824.8	2826.6	2824.8	2821.2	2819.4	2810.4	2803.2	2797.9	2792.5	2783.5	2774.5
15°	2849.9	2853.5	2849.9	2842.7	2837.3	2830.2	2826.6	2828.4	2830.2	2823.0	2814.0
17.5°	2896.6	2898.4	2893.0	2876.8	2869.6	2862.5	2862.5	2866.0	2871.4	2867.8	2858.9
20°	2982.7	2977.3	2964.8	2945.0	2936.0	2923.5	2921.7	2923.5	2923.5	2921.7	2914.5
22.5°	3090.4	3086.8	3070.6	3045.5	3032.9	3025.8	3015.0	3006.0	3004.2	2998.9	2991.7
25°	3219.6	3217.8	3198.1	3176.5	3167.5	3158.6	3149.6	3137.0	3126.3	3113.7	3106.5
27.5°	3384.7	3377.5	3348.8	3338.0	3325.5	3320.1	3307.5	3293.2	3284.2	3268.0	3259.1
30°	3566.0	3566.0	3542.6	3539.0	3539.0	3526.5	3512.1	3487.0	3470.8	3454.7	3449.3
32.5°	3747.2	3749.0	3725.7	3732.9	3738.2	3747.2	3750.8	3741.8	3731.1	3729.3	3718.5
35°	4009.2	4002.1	3978.7	3984.1	3982.3	3980.5	3980.5	4000.3	4003.9	4007.4	3985.9
37.5°	4334.1	4334.1	4310.7	4310.7	4300.0	4289.2	4274.8	4287.4	4307.1	4312.5	4298.2
40°	4705.6	4718.1	4689.4	4687.6	4691.2	4657.1	4640.9	4660.7	4673.3	4694.8	4678.6
42.5°	5143.4	5134.5	5105.8	5102.2	5082.4	5071.7	5057.3	5073.5	5093.2	5107.6	5112.9
45°	5563.4	5556.2	5523.9	5523.9	5504.2	5495.2	5502.4	5529.3	5538.3	5558.0	5577.8
47.5°	5978.0	5969.0	5947.5	5956.4	5958.2	5974.4	5997.7	6022.8	6048.0	6074.9	6083.8
50°	6401.5	6403.3	6380.0	6401.5	6428.4	6473.3	6536.1	6577.4	6629.4	6663.5	6674.3
52.5°	6787.3	6794.5	6819.6	6869.9	6923.7	7011.7	7119.4	7219.9	7306.0	7363.4	7359.8
55°	7250.4	7261.1	7322.1	7408.3	7496.2	7629.0	7788.8	7966.4	8110.0	8192.5	8140.5
57.5°	7842.6	7865.9	7934.1	8050.8	8181.8	8354.1	8573.0	8840.4	9063.0	9174.2	9089.9
60°	8655.6	8669.9	8752.5	8881.7	9039.6	9253.2	9545.7	9904.6	10218.7	10365.9	10269.0
62.5°	9727.0	9753.9	9820.3	9951.3	10112.8	10355.1	10712.2	11160.9	11552.1	11756.7	11537.8
65°	11006.6	11092.7	11148.3	11281.1	11431.9	11688.5	12061.8	12542.8	12962.7	13097.3	12844.3
67.5°	12273.6	12348.9	12445.9	12598.4	12750.9	13039.9	13386.2	13852.9	14314.1	14436.1	14043.1
70°	12828.1	12871.2	13021.9	13230.1	13522.6	13863.6	14263.8	14787.9	15358.6	15459.1	14960.2
72.5°	11717.2	11760.3	11929.0	12282.5	12792.2	13334.2	14032.3	14802.2	15556.0	15669.0	14981.7
75°	8862.0	8792.0	9041.4	9509.8	10197.2	10952.7	11929.0	13032.7	14122.1	14263.8	13443.7
77.5°	4579.9	4571.0	4759.4	5340.9	6161.0	7020.6	8095.6	9342.9	10408.9	10839.6	10172.0
80°	1290.3	1304.7	1394.4	1683.4	2162.5	2783.5	3623.4	4791.7	5663.9	6109.0	5735.7
82.5°	506.1	545.6	579.7	633.5	696.3	787.8	1051.7	1564.9	2099.7	2508.9	2054.9
85°	181.3	193.8	274.6	324.8	330.2	348.2	396.6	463.0	558.1	665.8	547.4
87.5°	68.2	75.4	87.9	145.4	143.6	131.0	159.7	166.9	125.6	114.9	141.8
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°	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9	2770.9
2.5°	2763.8	2765.5	2765.5	2767.3	2769.1	2769.1	2772.7	2772.7
5°	2765.5	2765.5	2762.0	2763.8	2762.0	2762.0	2763.8	2763.8
7.5°	2762.0	2760.2	2756.6	2754.8	2751.2	2751.2	2751.2	2751.2
10°	2756.6	2754.8	2751.2	2749.4	2747.6	2747.6	2747.6	2747.6
12.5°	2770.9	2765.5	2762.0	2760.2	2760.2	2760.2	2760.2	2760.2
15°	2808.6	2796.1	2787.1	2787.1	2788.9	2792.5	2792.5	2796.1
17.5°	2855.3	2840.9	2831.9	2824.8	2828.4	2833.7	2837.3	2840.9
20°	2910.9	2903.7	2891.2	2884.0	2884.0	2891.2	2894.8	2896.6
22.5°	2988.1	2982.7	2977.3	2968.3	2968.3	2971.9	2979.1	2979.1
25°	3102.9	3099.4	3095.8	3088.6	3086.8	3086.8	3090.4	3094.0
27.5°	3246.5	3248.3	3244.7	3242.9	3237.5	3235.7	3241.1	3239.3
30°	3438.5	3447.5	3456.5	3449.3	3440.3	3434.9	3429.6	3422.4
32.5°	3698.8	3688.0	3680.8	3668.3	3652.1	3637.7	3627.0	3614.4
35°	3944.6	3926.7	3919.5	3930.3	3928.5	3919.5	3906.9	3896.2
37.5°	4246.1	4242.5	4246.1	4265.9	4262.3	4271.3	4246.1	4244.3
40°	4626.6	4630.2	4655.3	4678.6	4691.2	4703.8	4689.4	4675.0
42.5°	5068.1	5066.3	5075.3	5107.6	5129.1	5143.4	5112.9	5109.4
45°	5534.7	5522.1	5529.3	5556.2	5577.8	5593.9	5559.8	5559.8
47.5°	6048.0	6026.4	6003.1	6033.6	6046.2	6056.9	6030.0	6021.0
50°	6620.4	6575.6	6525.3	6537.9	6537.9	6534.3	6500.2	6498.4
52.5°	7277.3	7194.7	7103.2	7069.1	7049.4	7027.8	6968.6	6939.9
55°	8032.8	7909.0	7765.4	7677.5	7630.8	7571.6	7472.9	7446.0
57.5°	8915.8	8722.0	8474.3	8366.6	8262.5	8165.6	8056.2	8025.6
60°	9962.1	9676.7	9348.3	9149.1	9036.0	8942.7	8829.6	8824.3
62.5°	11128.6	10678.1	10306.6	10127.2	10044.6	9962.1	9854.4	9868.7
65°	12314.8	11844.7	11496.5	11351.1	11274.0	11205.8	11098.1	11114.2
67.5°	13485.0	13052.4	12670.2	12521.2	12435.1	12348.9	12252.0	12268.2
70°	14324.8	13788.2	13357.5	13027.3	12820.9	12587.6	12436.9	12399.2
72.5°	14084.4	13257.0	12573.3	11918.2	11534.2	11221.9	11010.1	10918.6
75°	12189.2	11058.6	10179.2	9375.2	8923.0	8555.1	8287.7	8120.8
77.5°	9052.2	7781.6	6742.5	5816.4	5084.2	4592.5	4246.1	4021.8
80°	4955.0	3768.8	2754.8	1936.4	1423.2	1182.7	1044.5	978.1
82.5°	1543.4	996.0	734.0	633.5	588.6	563.5	522.2	455.8
85°	491.7	430.7	400.2	382.3	364.3	317.7	218.9	199.2
87.5°	190.2	195.6	193.8	183.1	186.6	134.6	107.7	95.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)