

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: P191595

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5MQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29141 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 226
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

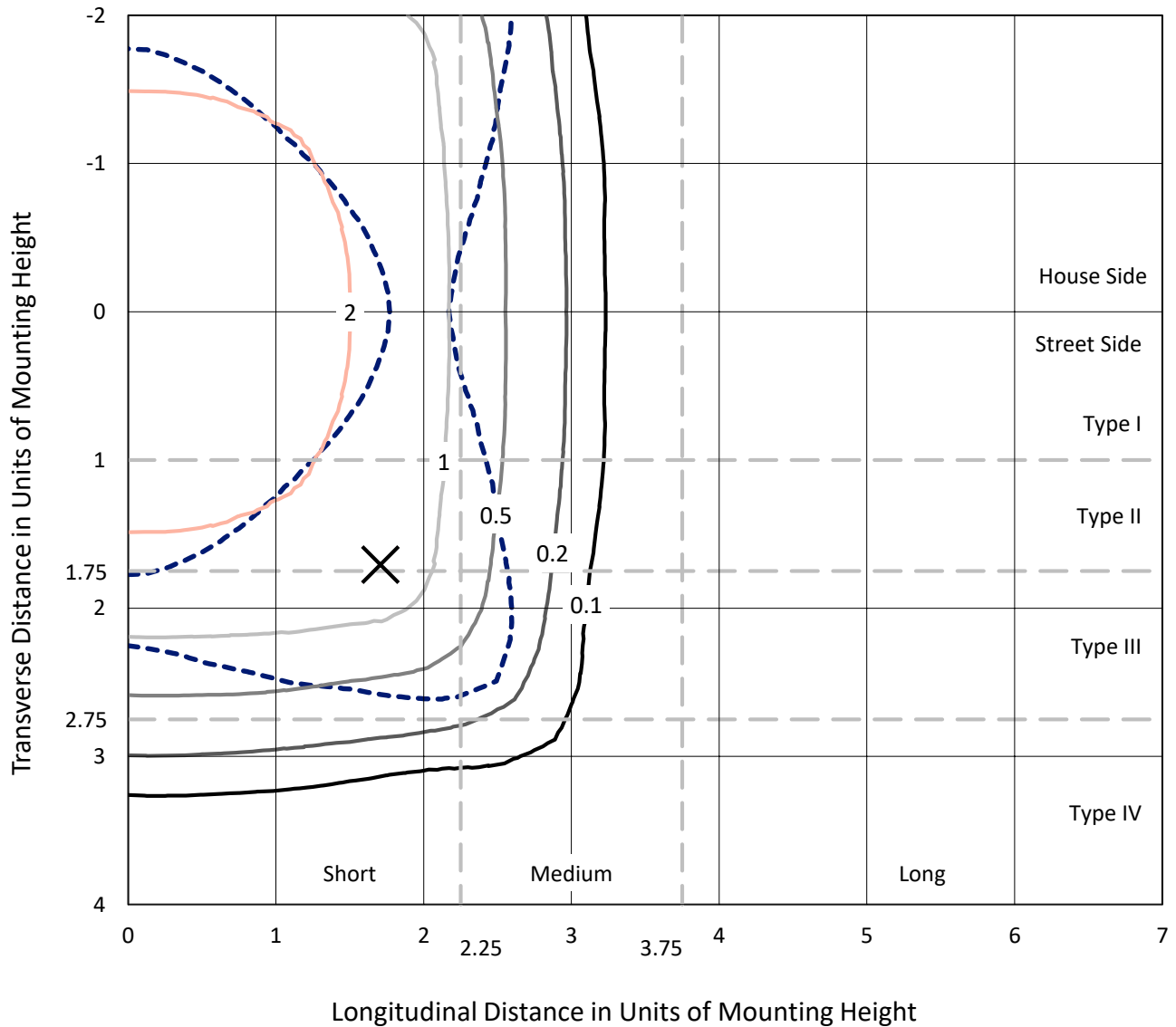


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Iso-Footcandle Lines of Horizontal Illumination

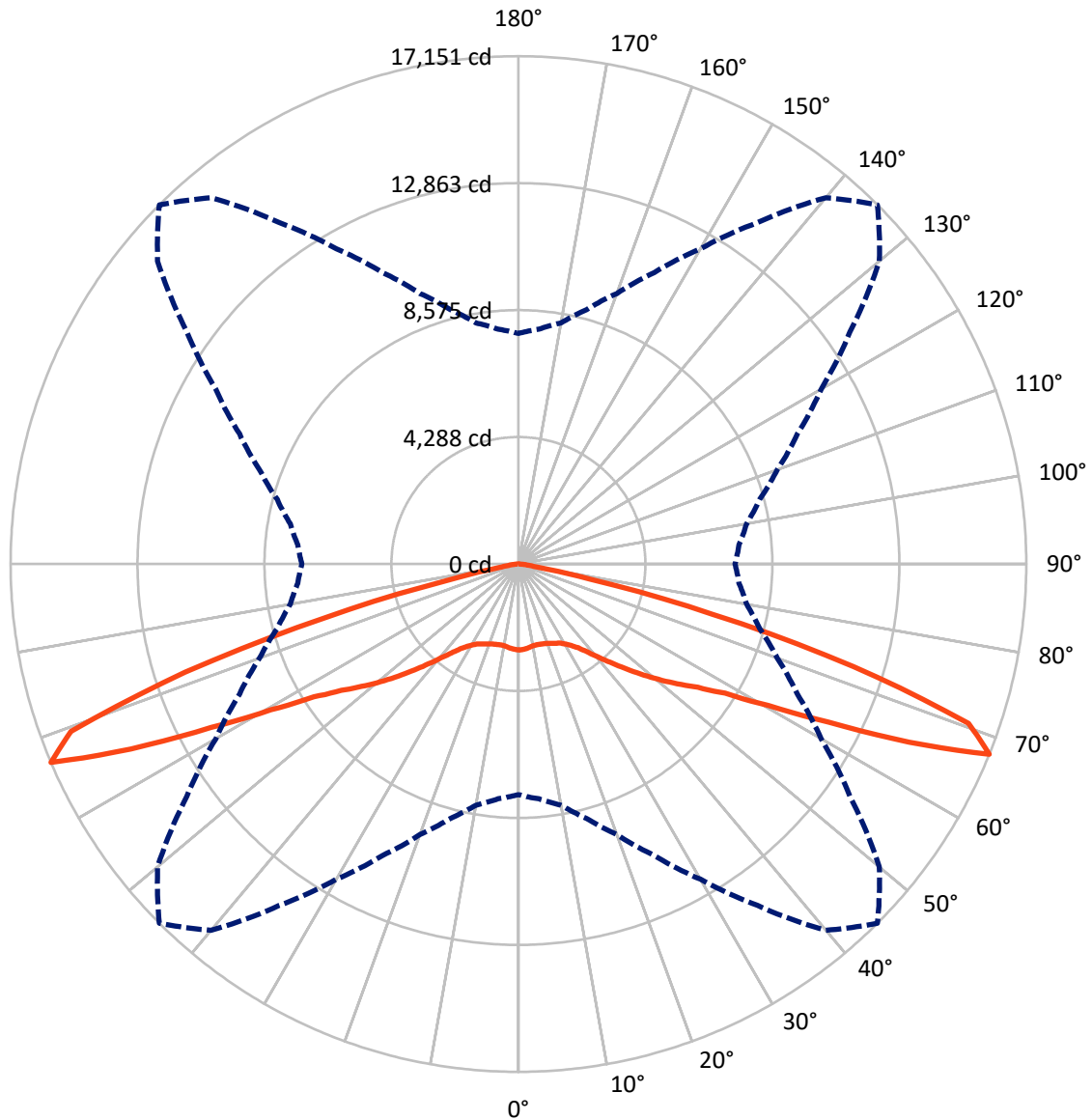
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14570.5	0.0	14570.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14570.5	0.0	14570.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29141.0	0.0	29141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.8	0.9
10°-20°	788.7	2.7
20°-30°	1340.8	4.6
30°-40°	2191.8	7.5
40°-50°	3912.8	13.4
50°-60°	6597.1	22.6
60°-70°	10237.7	35.1
70°-80°	3597.1	12.3
80°-90°	203.3	0.7
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°	29141.0	100.0
0°-180°	29141.0	100.0

Coefficient of Utilization



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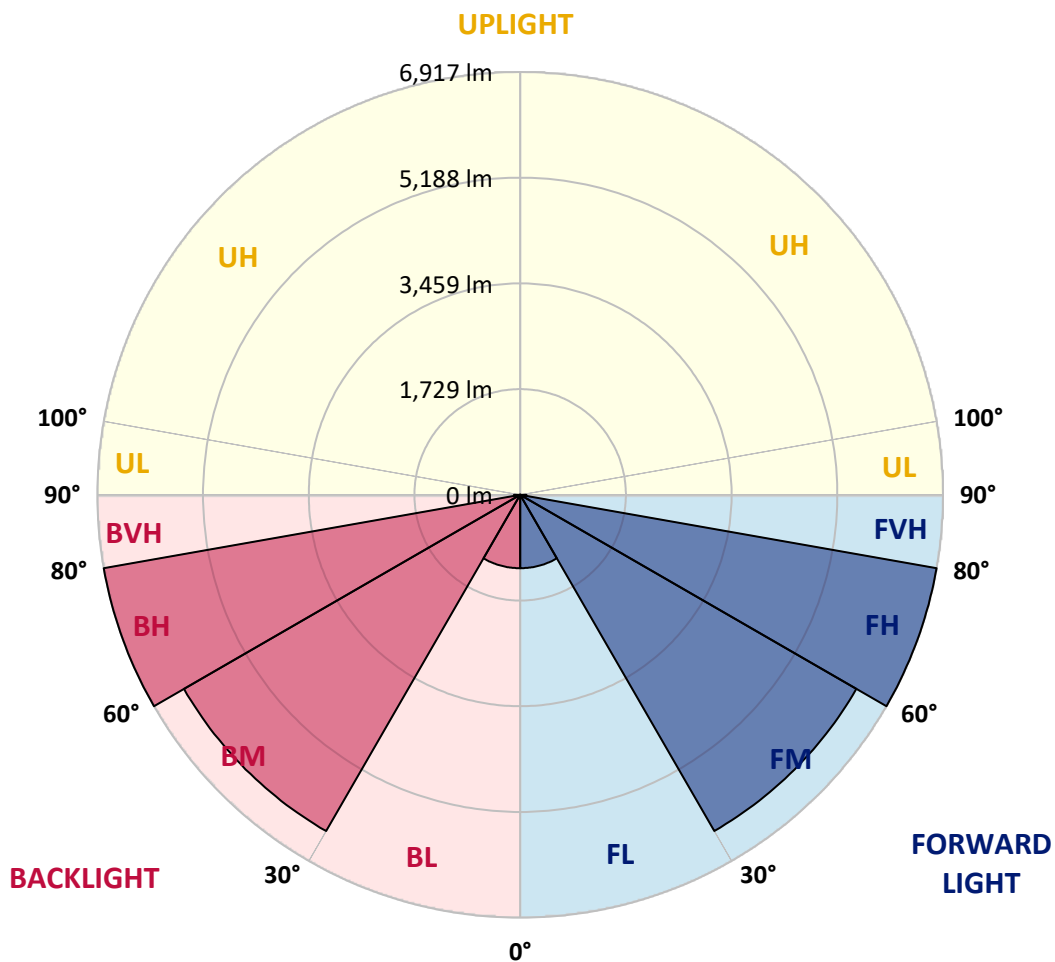
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1200.7	4.1			
FM	(30°-60°)	6350.8	21.8			
FH	(60°-80°)	6917.4	23.7			G3/7500
FVH	(80°-90°)	101.6	0.3			G2/225
BL	(0°-30°)	1200.7	4.1	B3/2500		
BM	(30°-60°)	6350.8	21.8	B4/8500		
BH	(60°-80°)	6917.4	23.7	B5		G3/7500
BVH	(80°-90°)	101.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0
2.5°	2893.3	2896.0	2896.0	2896.0	2894.6	2894.6	2892.0	2894.6	2893.3	2889.3	2890.6
5°	2869.2	2871.9	2871.9	2870.5	2874.5	2873.2	2869.2	2871.9	2870.5	2867.8	2869.2
7.5°	2834.3	2838.4	2838.4	2837.0	2841.0	2839.7	2837.0	2838.4	2838.4	2834.3	2834.3
10°	2795.5	2798.2	2798.2	2796.8	2803.5	2803.5	2802.2	2806.2	2807.5	2803.5	2800.8
12.5°	2759.3	2763.3	2763.3	2768.7	2775.4	2778.1	2784.8	2790.1	2795.5	2794.1	2788.8
15°	2737.8	2740.5	2745.9	2752.6	2763.3	2772.7	2783.4	2795.5	2806.2	2808.9	2800.8
17.5°	2724.4	2728.5	2736.5	2745.9	2760.6	2776.7	2792.8	2808.9	2823.6	2829.0	2819.6
20°	2720.4	2723.1	2731.1	2747.2	2767.3	2791.5	2814.2	2833.0	2853.1	2859.8	2853.1
22.5°	2728.5	2733.8	2743.2	2762.0	2788.8	2819.6	2846.4	2871.9	2897.3	2909.4	2900.0
25°	2764.7	2770.0	2782.1	2806.2	2835.7	2867.8	2898.7	2928.1	2950.9	2963.0	2956.3
27.5°	2831.7	2838.4	2853.1	2877.2	2909.4	2944.2	2977.7	3001.9	3020.6	3024.6	3016.6
30°	2932.2	2946.9	2964.3	2991.1	3028.7	3058.1	3091.6	3113.1	3135.9	3135.9	3129.2
32.5°	3089.0	3103.7	3122.5	3147.9	3177.4	3209.6	3239.1	3257.8	3281.9	3283.3	3267.2
35°	3323.5	3330.2	3346.3	3362.3	3389.1	3417.3	3442.7	3454.8	3474.9	3476.3	3461.5
37.5°	3633.0	3634.4	3645.1	3650.5	3674.6	3705.4	3729.5	3737.6	3756.3	3753.7	3738.9
40°	3993.5	4000.2	4004.3	4012.3	4037.8	4067.2	4092.7	4096.7	4116.8	4112.8	4094.0
42.5°	4410.3	4413.0	4435.8	4447.8	4472.0	4486.7	4518.9	4522.9	4547.0	4536.3	4514.8
45°	4878.0	4902.1	4923.6	4947.7	4973.2	4990.6	5016.0	5010.7	5026.8	5010.7	4998.6
47.5°	5369.8	5387.3	5435.5	5473.0	5514.6	5529.3	5565.5	5549.4	5565.5	5542.7	5538.7
50°	5911.2	5942.1	5983.6	6026.5	6070.7	6094.8	6141.7	6121.6	6143.1	6121.6	6109.6
52.5°	6444.6	6452.6	6543.8	6606.8	6668.4	6696.5	6724.7	6715.3	6716.6	6715.3	6703.2
55°	6951.2	6969.9	7061.1	7146.8	7254.0	7333.1	7381.3	7376.0	7363.9	7351.9	7331.8
57.5°	7522.1	7540.8	7645.3	7751.2	7873.2	7985.7	8083.6	8184.1	8222.9	8233.7	8189.4
60°	8294.0	8292.6	8432.0	8560.6	8734.9	8902.4	9116.8	9335.2	9585.8	9702.4	9548.3
62.5°	9079.3	9111.4	9312.4	9540.3	9899.4	10249.2	10644.5	11033.1	11429.8	11752.8	11409.7
65°	8985.5	9108.7	9407.6	9923.5	10586.9	11374.9	12227.2	13129.1	13943.9	14504.0	13875.5
67.5°	7787.4	7962.9	8267.2	8894.3	9723.9	10860.3	12291.5	14075.2	16148.4	17150.8	15908.5
70°	5644.6	5842.9	6161.8	6774.3	7595.8	8675.9	10230.4	12371.9	15116.5	16126.9	14758.7
72.5°	2808.9	2916.1	3113.1	3503.1	4124.9	5001.3	6411.1	8469.5	10897.8	11825.2	10574.8
75°	954.2	1003.7	1037.2	1164.6	1361.6	1706.0	2406.8	3702.7	5648.6	6771.6	5568.2
77.5°	550.8	552.1	574.9	597.7	631.2	668.7	762.5	1001.1	1731.4	2459.1	1791.7
80°	356.5	355.1	373.9	391.3	414.1	432.9	438.2	463.7	534.7	633.9	566.9
82.5°	184.9	207.7	249.3	272.0	314.9	323.0	312.2	302.9	320.3	332.3	340.4
85°	101.8	88.4	132.7	171.5	190.3	193.0	193.0	182.3	189.0	184.9	201.0
87.5°	46.9	42.9	52.3	84.4	89.8	76.4	80.4	71.0	50.9	49.6	56.3
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°	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0
2.5°	2890.6	2892.0	2892.0	2896.0	2897.3	2900.0	2902.7	2904.0
5°	2867.8	2871.9	2869.2	2873.2	2873.2	2875.9	2875.9	2877.2
7.5°	2834.3	2838.4	2838.4	2838.4	2837.0	2841.0	2841.0	2841.0
10°	2799.5	2802.2	2800.8	2798.2	2795.5	2799.5	2798.2	2796.8
12.5°	2788.8	2782.1	2776.7	2774.0	2768.7	2770.0	2766.0	2766.0
15°	2795.5	2783.4	2774.0	2770.0	2764.7	2762.0	2759.3	2760.6
17.5°	2812.9	2798.2	2786.1	2779.4	2772.7	2768.7	2763.3	2764.7
20°	2843.7	2826.3	2808.9	2795.5	2783.4	2776.7	2772.7	2771.4
22.5°	2889.3	2863.8	2838.4	2818.3	2802.2	2792.8	2788.8	2786.1
25°	2941.5	2913.4	2883.9	2861.1	2845.1	2833.0	2825.0	2825.0
27.5°	3007.2	2984.4	2957.6	2930.8	2916.1	2904.0	2898.7	2896.0
30°	3117.1	3095.7	3074.2	3048.8	3030.0	3017.9	3008.6	3000.5
32.5°	3257.8	3240.4	3223.0	3204.2	3186.8	3170.7	3156.0	3149.3
35°	3456.1	3442.7	3430.7	3409.2	3402.5	3393.2	3385.1	3378.4
37.5°	3729.5	3724.2	3724.2	3701.4	3696.0	3692.0	3684.0	3685.3
40°	4088.7	4094.0	4087.3	4079.3	4075.3	4064.6	4064.6	4073.9
42.5°	4513.5	4517.5	4532.3	4518.9	4533.6	4520.2	4512.2	4518.9
45°	5006.7	5021.4	5050.9	5037.5	5046.9	5024.1	4995.9	4997.3
47.5°	5560.1	5573.5	5585.6	5576.2	5577.5	5540.0	5502.5	5493.1
50°	6135.0	6140.4	6147.1	6133.7	6136.4	6094.8	6051.9	6053.3
52.5°	6703.2	6728.7	6755.5	6719.3	6711.3	6664.4	6604.1	6580.0
55°	7353.2	7389.4	7358.6	7295.6	7232.6	7169.6	7090.5	7077.1
57.5°	8154.6	8092.9	7996.5	7877.2	7790.1	7701.6	7621.2	7587.7
60°	9269.6	9037.7	8863.5	8686.6	8575.4	8466.8	8361.0	8344.9
62.5°	10845.5	10444.8	10097.7	9731.9	9433.1	9199.9	9013.6	8961.3
65°	12820.9	11873.4	11051.9	10285.4	9619.3	9116.8	8800.5	8661.1
67.5°	13670.5	11799.7	10391.2	9303.1	8432.0	7823.6	7481.8	7311.7
70°	12012.8	9785.5	8253.8	7164.2	6370.9	5722.3	5412.7	5230.5
72.5°	8264.5	6224.8	4922.2	4017.7	3383.8	2841.0	2626.6	2610.5
75°	3710.8	2457.8	1693.9	1305.3	1098.9	955.5	911.3	877.8
77.5°	1038.6	767.9	684.8	640.6	597.7	548.1	529.3	533.4
80°	505.2	477.1	458.3	430.2	391.3	349.8	331.0	339.0
82.5°	335.0	331.0	343.1	323.0	266.7	226.5	190.3	174.2
85°	203.7	206.4	210.4	211.7	179.6	126.0	85.8	96.5
87.5°	80.4	92.5	100.5	104.5	97.8	60.3	48.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)