

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: P269449

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269449
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: GLEON-AF-07-LED-E1-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38529 lumens
Efficiency: N/A
Efficacy: 98.5 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): 391
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

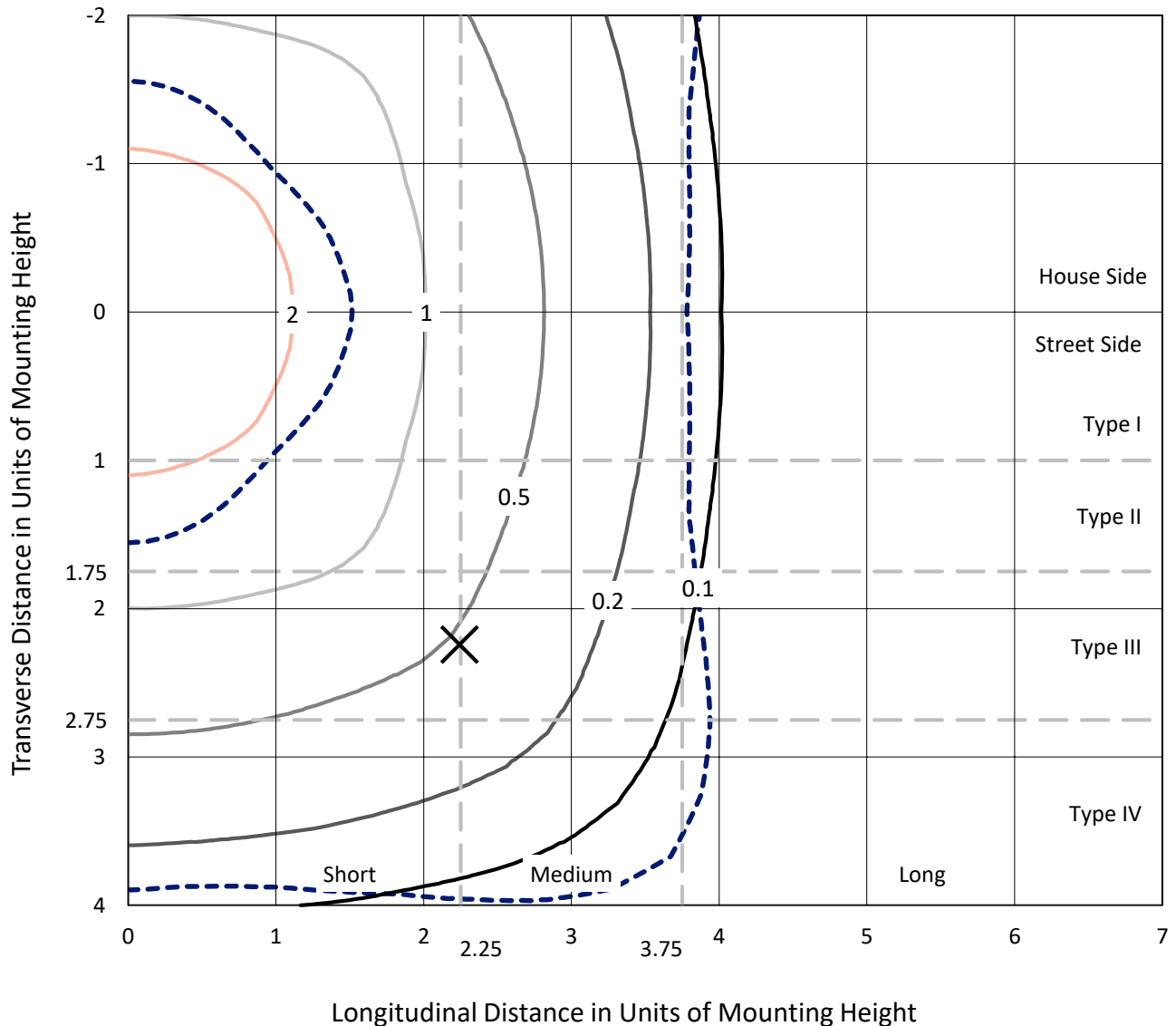


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

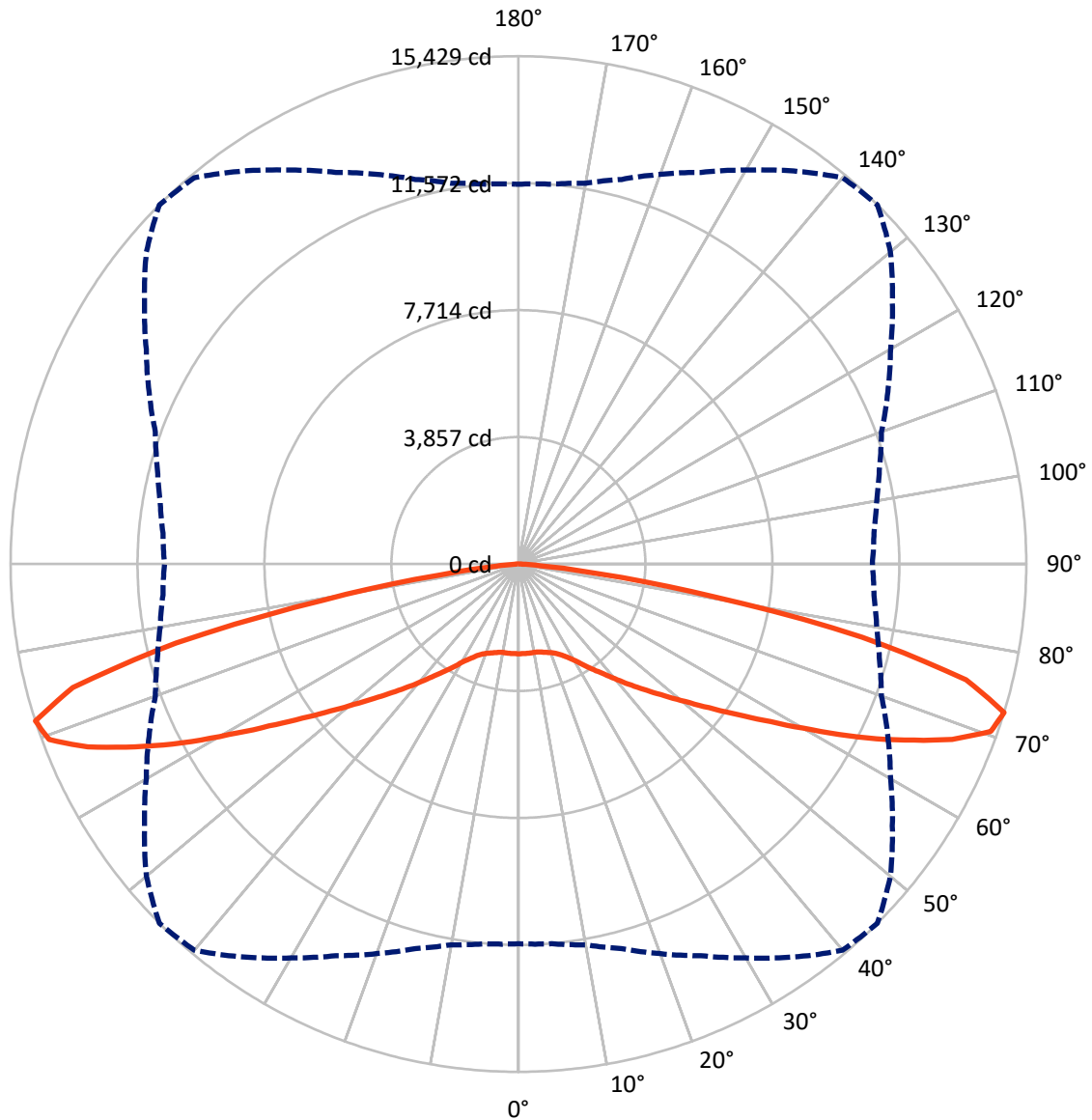


Based on 30 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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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	19264.5	0.0	19264.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19264.5	0.0	19264.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38529.0	0.0	38529.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	0.7
10°-20°	791.3	2.1
20°-30°	1446.0	3.8
30°-40°	2493.1	6.5
40°-50°	4262.0	11.1
50°-60°	6908.1	17.9
60°-70°	11460.3	29.7
70°-80°	10093.9	26.2
80°-90°	813.8	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°	38529.0	100.0
0°-180°	38529.0	100.0



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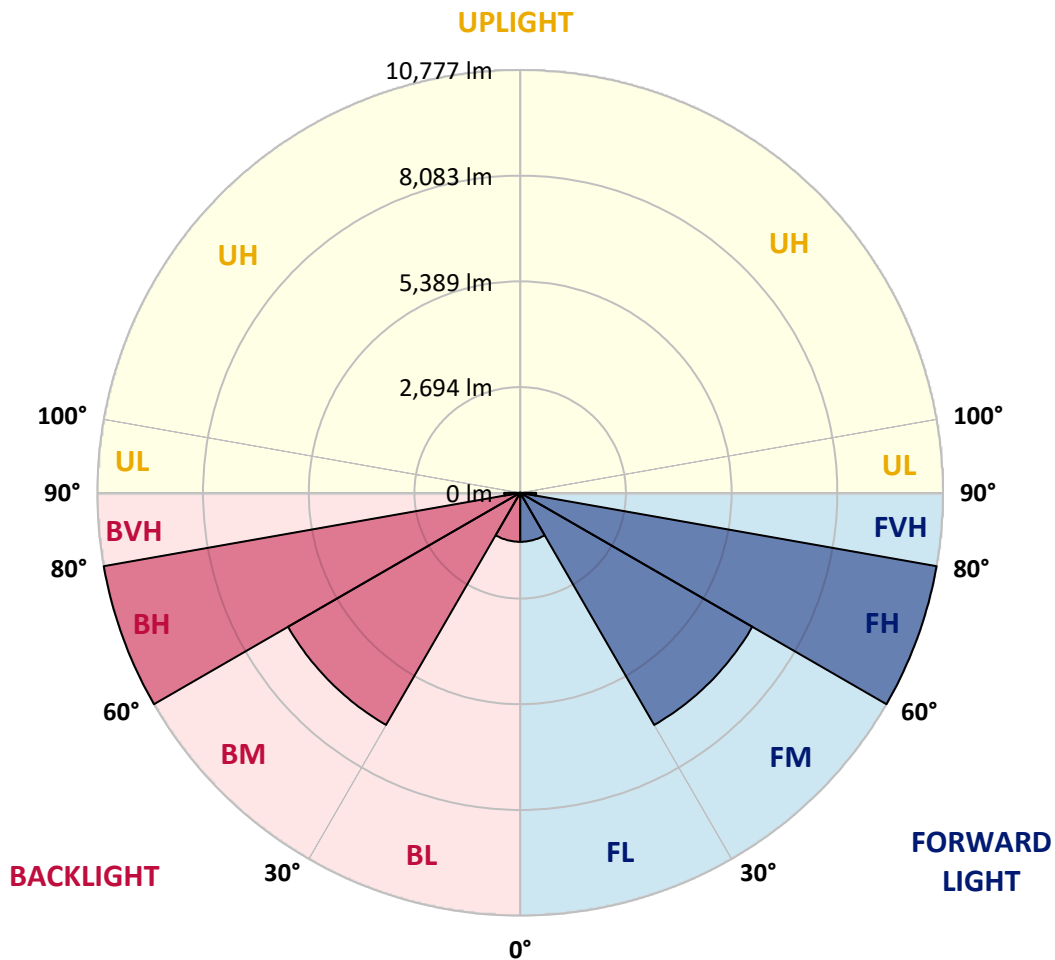
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.9	3.2			
FM	(30°-60°)	6831.6	17.7			
FH	(60°-80°)	10777.1	28.0			G4/12000
FVH	(80°-90°)	406.9	1.1			G3/500
BL	(0°-30°)	1248.9	3.2	B3/2500		
BM	(30°-60°)	6831.6	17.7	B4/8500		
BH	(60°-80°)	10777.1	28.0	B5		G4/12000
BVH	(80°-90°)	406.9	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°	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4
2.5°	2728.4	2730.2	2731.9	2730.2	2730.2	2728.4	2726.6	2728.4	2726.6	2723.1	2724.9
5°	2737.2	2740.8	2740.8	2737.2	2739.0	2737.2	2733.7	2735.5	2731.9	2726.6	2726.6
7.5°	2747.8	2749.6	2749.6	2746.1	2747.8	2744.3	2740.8	2739.0	2735.5	2728.4	2723.1
10°	2763.7	2765.5	2763.7	2760.2	2760.2	2754.9	2746.1	2742.5	2735.5	2724.9	2719.6
12.5°	2781.4	2783.2	2781.4	2777.9	2776.1	2767.3	2760.2	2754.9	2749.6	2740.8	2731.9
15°	2806.2	2809.8	2806.2	2799.2	2793.9	2786.8	2783.2	2784.9	2786.8	2779.6	2770.8
17.5°	2852.2	2853.9	2848.6	2832.7	2825.7	2818.6	2818.6	2822.1	2827.4	2823.9	2815.1
20°	2937.0	2931.7	2919.3	2899.9	2891.0	2878.7	2876.9	2878.7	2878.7	2876.9	2869.8
22.5°	3043.0	3039.4	3023.5	2998.8	2986.4	2979.4	2968.8	2959.9	2958.2	2952.9	2945.8
25°	3170.3	3168.5	3149.0	3127.8	3118.9	3110.1	3101.3	3088.9	3078.3	3065.9	3058.9
27.5°	3332.8	3325.7	3297.5	3286.9	3274.5	3269.2	3256.9	3242.7	3233.9	3218.0	3209.1
30°	3511.2	3511.2	3488.3	3484.7	3484.7	3472.4	3458.2	3433.5	3417.6	3401.7	3396.4
32.5°	3689.8	3691.6	3668.6	3675.7	3681.0	3689.8	3693.3	3684.5	3673.9	3672.1	3661.5
35°	3947.8	3940.8	3917.8	3923.1	3921.3	3919.6	3919.6	3939.0	3942.5	3946.1	3924.9
37.5°	4267.6	4267.6	4244.6	4244.6	4234.0	4223.4	4209.3	4221.7	4241.1	4246.4	4232.3
40°	4633.4	4645.9	4617.5	4615.8	4619.3	4585.7	4569.8	4589.3	4601.6	4622.8	4606.9
42.5°	5064.6	5055.8	5027.5	5024.0	5004.5	4993.9	4979.8	4995.7	5015.1	5029.3	5034.6
45°	5478.1	5471.0	5439.2	5439.2	5419.8	5411.0	5418.0	5444.5	5453.4	5472.8	5492.2
47.5°	5886.4	5877.5	5856.3	5865.2	5866.9	5882.8	5905.7	5930.5	5955.3	5981.8	5990.5
50°	6303.3	6305.2	6282.1	6303.3	6329.8	6374.1	6435.8	6476.5	6527.9	6561.4	6572.0
52.5°	6683.3	6690.3	6715.1	6764.5	6817.5	6904.3	7010.3	7109.1	7193.9	7250.6	7247.0
55°	7139.2	7149.8	7209.8	7294.7	7381.4	7512.0	7669.4	7844.3	7985.8	8067.0	8015.8
57.5°	7722.4	7745.4	7812.5	7927.4	8056.4	8226.0	8441.6	8704.8	8924.0	9033.5	8950.5
60°	8522.8	8537.0	8618.2	8745.5	8901.0	9111.4	9399.3	9752.8	10062.0	10206.9	10111.5
62.5°	9577.9	9604.4	9669.7	9798.7	9957.8	10196.3	10548.0	10989.9	11375.1	11576.5	11361.0
65°	10837.8	10922.6	10977.5	11108.3	11256.7	11509.4	11876.9	12350.4	12763.9	12896.5	12647.3
67.5°	12085.4	12159.6	12255.0	12405.2	12555.5	12840.1	13181.0	13640.6	14094.6	14214.8	13827.8
70°	12631.4	12673.8	12822.3	13027.3	13315.3	13651.2	14045.2	14561.2	15123.1	15222.0	14730.9
72.5°	11537.7	11580.1	11746.1	12094.3	12596.2	13129.7	13817.2	14575.3	15317.4	15428.8	14752.1
75°	8726.0	8657.1	8902.8	9364.0	10040.9	10784.8	11746.1	12832.9	13905.6	14045.2	13237.7
77.5°	4509.8	4500.9	4686.5	5258.9	6066.6	6913.0	7971.5	9199.7	10249.4	10673.5	10016.1
80°	1270.6	1284.7	1373.1	1657.6	2129.4	2740.8	3567.9	4718.3	5577.0	6015.3	5647.7
82.5°	498.3	537.1	570.9	623.9	685.6	775.7	1035.6	1541.0	2067.5	2470.5	2023.3
85°	178.5	190.9	270.4	319.8	325.1	342.9	390.6	455.9	549.6	655.7	539.0
87.5°	67.2	74.2	86.5	143.1	141.4	128.9	157.3	164.3	123.6	113.0	139.5
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°	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4	2728.4
2.5°	2721.3	2723.1	2723.1	2724.9	2726.6	2726.6	2730.2	2730.2
5°	2723.1	2723.1	2719.6	2721.3	2719.6	2719.6	2721.3	2721.3
7.5°	2719.6	2717.8	2714.3	2712.5	2709.0	2709.0	2709.0	2709.0
10°	2714.3	2712.5	2709.0	2707.2	2705.4	2705.4	2705.4	2705.4
12.5°	2728.4	2723.1	2719.6	2717.8	2717.8	2717.8	2717.8	2717.8
15°	2765.5	2753.1	2744.3	2744.3	2746.1	2749.6	2749.6	2753.1
17.5°	2811.5	2797.4	2788.6	2781.4	2784.9	2790.3	2793.9	2797.4
20°	2866.3	2859.2	2846.9	2839.8	2839.8	2846.9	2850.4	2852.2
22.5°	2942.3	2937.0	2931.7	2922.8	2922.8	2926.4	2933.4	2933.4
25°	3055.3	3051.8	3048.3	3041.2	3039.4	3039.4	3043.0	3046.5
27.5°	3196.8	3198.5	3195.0	3193.2	3187.9	3186.2	3191.5	3189.7
30°	3385.8	3394.7	3403.5	3396.4	3387.6	3382.3	3377.0	3369.9
32.5°	3642.1	3631.5	3624.4	3612.1	3596.2	3582.0	3571.4	3559.1
35°	3884.1	3866.5	3859.4	3870.0	3868.2	3859.4	3847.0	3836.4
37.5°	4181.0	4177.5	4181.0	4200.5	4196.9	4205.8	4181.0	4179.3
40°	4555.7	4559.2	4584.0	4606.9	4619.3	4631.7	4617.5	4603.4
42.5°	4990.4	4988.6	4997.5	5029.3	5050.5	5064.6	5034.6	5031.0
45°	5449.8	5437.5	5444.5	5471.0	5492.2	5508.1	5474.6	5474.6
47.5°	5955.3	5934.1	5911.0	5941.1	5953.4	5964.0	5937.5	5928.8
50°	6519.0	6474.8	6425.2	6437.7	6437.7	6434.1	6400.6	6398.7
52.5°	7165.7	7084.5	6994.4	6960.7	6941.4	6920.2	6861.8	6833.4
55°	7909.7	7787.8	7646.5	7559.7	7513.9	7455.6	7358.3	7331.8
57.5°	8779.1	8588.2	8344.4	8238.4	8135.9	8040.5	7932.7	7902.6
60°	9809.3	9528.4	9205.0	9008.8	8897.5	8805.6	8694.2	8688.9
62.5°	10958.1	10514.4	10148.6	9971.9	9890.7	9809.3	9703.3	9717.4
65°	12126.1	11663.1	11320.3	11177.2	11101.2	11034.1	10927.9	10943.8
67.5°	13278.2	12852.4	12476.0	12329.2	12244.4	12159.6	12064.1	12080.1
70°	14105.2	13577.0	13152.8	12827.6	12624.4	12394.6	12246.2	12209.1
72.5°	13868.5	13053.8	12380.5	11735.5	11357.5	11050.0	10841.4	10751.3
75°	12002.3	10889.1	10023.2	9231.5	8786.2	8423.9	8160.7	7996.4
77.5°	8913.4	7662.4	6639.2	5727.2	5006.3	4522.1	4181.0	3960.2
80°	4879.1	3711.0	2712.5	1906.7	1401.4	1164.6	1028.5	963.2
82.5°	1519.8	980.8	722.7	623.9	579.6	554.9	514.2	448.9
85°	484.1	424.1	394.0	376.4	358.8	312.8	215.7	196.2
87.5°	187.3	192.6	190.9	180.2	183.8	132.5	106.0	93.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)