

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: P269284

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269284
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-05-LED-E1-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29786 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

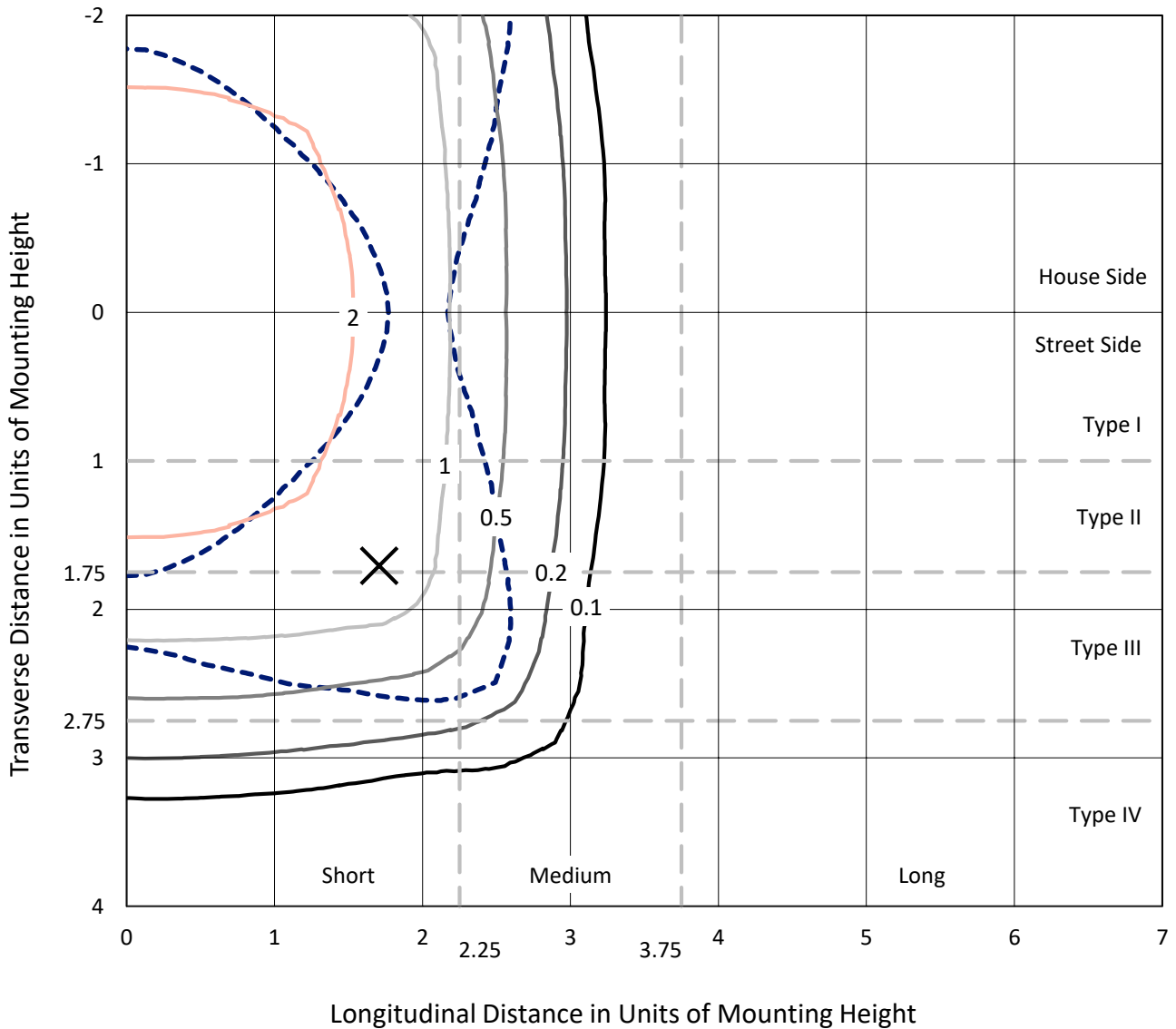


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

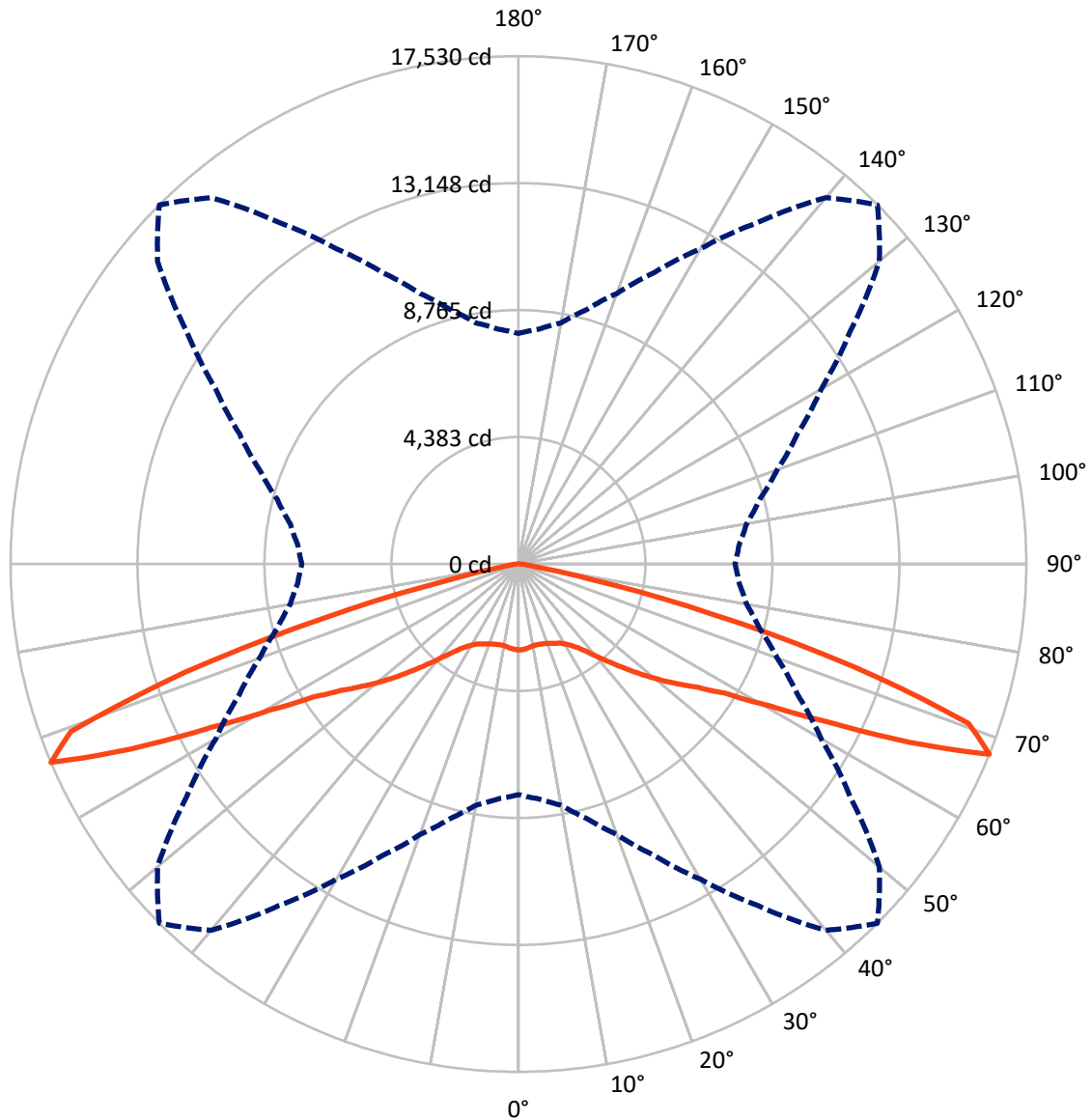


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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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	14893.0	0.0	14893.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14893.0	0.0	14893.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29786.0	0.0	29786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	0.9
10°-20°	806.2	2.7
20°-30°	1370.5	4.6
30°-40°	2240.3	7.5
40°-50°	3999.4	13.4
50°-60°	6743.1	22.6
60°-70°	10464.3	35.1
70°-80°	3676.7	12.3
80°-90°	207.8	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°	29786.0	100.0
0°-180°	29786.0	100.0



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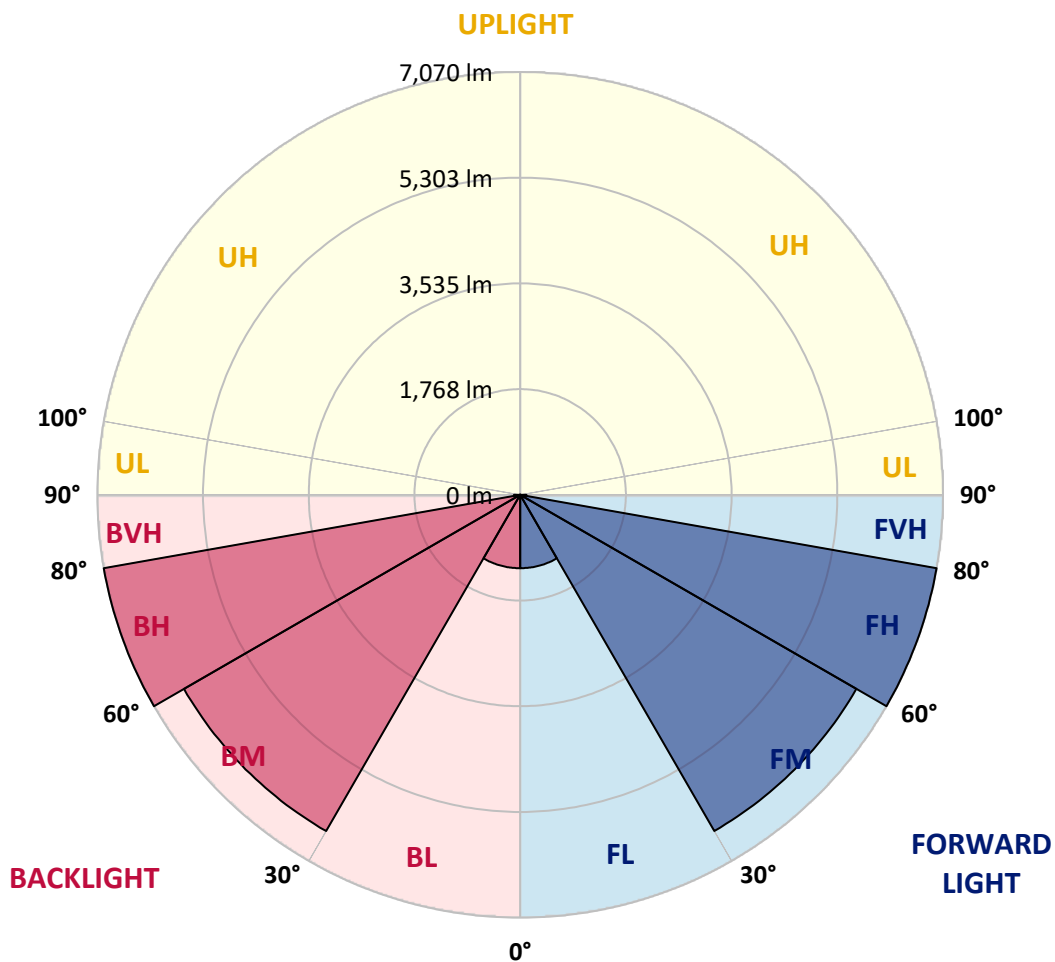
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1227.2	4.1			
FM	(30°-60°)	6491.4	21.8			
FH	(60°-80°)	7070.5	23.7			G3/7500
FVH	(80°-90°)	103.9	0.3			G2/225
BL	(0°-30°)	1227.2	4.1	B3/2500		
BM	(30°-60°)	6491.4	21.8	B4/8500		
BH	(60°-80°)	7070.5	23.7	B5		G3/7500
BVH	(80°-90°)	103.9	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°	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3
2.5°	2957.3	2960.1	2960.1	2960.1	2958.7	2958.7	2956.0	2958.7	2957.3	2953.3	2954.6
5°	2932.6	2935.4	2935.4	2934.0	2938.1	2936.7	2932.6	2935.4	2934.0	2931.3	2932.6
7.5°	2897.0	2901.2	2901.2	2899.8	2904.0	2902.6	2899.8	2901.2	2901.2	2897.0	2897.0
10°	2857.4	2860.2	2860.2	2858.8	2865.6	2865.6	2864.2	2868.3	2869.6	2865.6	2862.8
12.5°	2820.4	2824.5	2824.5	2829.9	2836.8	2839.5	2846.4	2851.8	2857.4	2856.0	2850.5
15°	2798.4	2801.2	2806.7	2813.5	2824.5	2834.1	2845.0	2857.4	2868.3	2871.1	2862.8
17.5°	2784.7	2788.9	2797.1	2806.7	2821.8	2838.1	2854.6	2871.1	2886.2	2891.6	2882.0
20°	2780.7	2783.4	2791.7	2808.0	2828.7	2853.2	2876.6	2895.6	2916.3	2923.2	2916.3
22.5°	2788.9	2794.4	2803.9	2823.2	2850.5	2882.0	2909.4	2935.4	2961.4	2973.7	2964.1
25°	2825.9	2831.3	2843.7	2868.3	2898.4	2931.3	2962.8	2993.0	3016.2	3028.5	3021.7
27.5°	2894.2	2901.2	2916.3	2941.0	2973.7	3009.4	3043.6	3068.3	3087.5	3091.5	3083.3
30°	2997.0	3012.1	3030.0	3057.3	3095.6	3125.8	3160.1	3181.9	3205.2	3205.2	3198.4
32.5°	3157.4	3172.5	3191.6	3217.5	3247.7	3280.6	3310.8	3329.8	3354.6	3356.0	3339.4
35°	3397.0	3403.9	3420.3	3436.7	3464.1	3492.9	3518.9	3531.2	3551.8	3553.2	3538.2
37.5°	3713.5	3714.9	3725.8	3731.3	3756.0	3787.4	3812.0	3820.3	3839.4	3836.8	3821.7
40°	4081.9	4088.7	4092.9	4101.1	4127.2	4157.3	4183.2	4187.4	4207.9	4203.9	4184.7
42.5°	4508.0	4510.7	4533.9	4546.3	4570.9	4585.9	4618.8	4622.9	4647.7	4636.7	4614.8
45°	4986.0	5010.7	5032.6	5057.2	5083.1	5101.0	5127.0	5121.5	5138.0	5121.5	5109.3
47.5°	5488.6	5506.5	5555.7	5594.1	5636.7	5651.6	5688.6	5672.3	5688.6	5665.4	5661.3
50°	6042.1	6073.6	6116.0	6159.9	6205.1	6229.7	6277.6	6257.1	6279.1	6257.1	6244.7
52.5°	6587.2	6595.4	6688.6	6753.0	6816.0	6844.7	6873.6	6863.9	6865.2	6863.9	6851.6
55°	7105.1	7124.2	7217.3	7304.9	7414.6	7495.4	7544.8	7539.3	7526.9	7514.6	7494.0
57.5°	7688.6	7707.6	7814.5	7922.8	8047.5	8162.4	8262.5	8365.1	8404.9	8416.0	8370.6
60°	8477.6	8476.1	8618.6	8750.1	8928.2	9099.4	9318.6	9541.8	9798.1	9917.2	9759.6
62.5°	9280.2	9313.1	9518.6	9751.5	10118.5	10476.0	10880.1	11277.3	11682.7	12012.9	11662.2
65°	9184.4	9310.4	9615.7	10143.2	10821.3	11626.7	12497.8	13419.7	14252.5	14825.1	14182.6
67.5°	7959.7	8139.3	8450.1	9091.1	9939.0	11100.6	12563.5	14386.7	16505.7	17530.3	16260.6
70°	5769.5	5972.2	6298.2	6924.2	7764.0	8867.9	10456.9	12645.8	15451.0	16483.9	15085.3
72.5°	2871.1	2980.7	3181.9	3580.6	4216.1	5112.0	6553.0	8657.0	11139.1	12086.9	10808.9
75°	975.3	1026.0	1060.2	1190.3	1391.7	1743.7	2460.1	3784.6	5773.5	6921.5	5691.4
77.5°	563.0	564.3	587.6	610.8	645.2	683.5	779.4	1023.2	1769.8	2513.5	1831.4
80°	364.4	362.9	382.1	399.9	423.2	442.4	448.0	473.9	546.6	647.9	579.3
82.5°	189.1	212.3	254.8	278.0	322.0	330.0	319.2	309.6	327.4	339.6	348.0
85°	104.2	90.4	135.6	175.3	194.6	197.3	197.3	186.3	193.1	189.1	205.4
87.5°	47.9	43.8	53.4	86.2	91.7	78.2	82.1	72.7	52.0	50.7	57.5
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°	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3	2968.3
2.5°	2954.6	2956.0	2956.0	2960.1	2961.4	2964.1	2966.9	2968.3
5°	2931.3	2935.4	2932.6	2936.7	2936.7	2939.6	2939.6	2941.0
7.5°	2897.0	2901.2	2901.2	2901.2	2899.8	2904.0	2904.0	2904.0
10°	2861.5	2864.2	2862.8	2860.2	2857.4	2861.5	2860.2	2858.8
12.5°	2850.5	2843.7	2838.1	2835.4	2829.9	2831.3	2827.2	2827.2
15°	2857.4	2845.0	2835.4	2831.3	2825.9	2823.2	2820.4	2821.8
17.5°	2875.1	2860.2	2847.7	2840.9	2834.1	2829.9	2824.5	2825.9
20°	2906.6	2888.9	2871.1	2857.4	2845.0	2838.1	2834.1	2832.6
22.5°	2953.3	2927.1	2901.2	2880.7	2864.2	2854.6	2850.5	2847.7
25°	3006.6	2977.9	2947.8	2924.4	2908.1	2895.6	2887.5	2887.5
27.5°	3073.8	3050.5	3023.1	2995.7	2980.7	2968.3	2962.8	2960.1
30°	3186.1	3164.2	3142.2	3116.2	3097.0	3084.7	3075.2	3067.0
32.5°	3329.8	3312.1	3294.4	3275.1	3257.3	3240.8	3225.9	3218.9
35°	3532.7	3518.9	3506.7	3484.7	3477.9	3468.3	3460.0	3453.3
37.5°	3812.0	3806.6	3806.6	3783.3	3777.8	3773.7	3765.5	3767.0
40°	4179.2	4184.7	4177.7	4169.7	4165.5	4154.5	4154.5	4164.2
42.5°	4613.3	4617.5	4632.6	4618.8	4633.9	4620.3	4612.0	4618.8
45°	5117.5	5132.6	5162.6	5148.9	5158.5	5135.3	5106.5	5107.9
47.5°	5683.1	5697.0	5709.2	5699.7	5701.1	5662.6	5624.3	5614.6
50°	6270.8	6276.3	6283.1	6269.5	6272.1	6229.7	6185.9	6187.3
52.5°	6851.6	6877.7	6905.0	6868.0	6859.8	6811.8	6750.3	6725.6
55°	7515.9	7552.9	7521.4	7457.0	7392.7	7328.4	7247.4	7233.8
57.5°	8335.1	8272.0	8173.5	8051.5	7962.4	7872.0	7789.9	7755.6
60°	9474.8	9237.8	9059.6	8878.8	8765.2	8654.2	8546.0	8529.5
62.5°	11085.5	10676.0	10321.3	9947.3	9641.9	9403.5	9213.0	9159.7
65°	13104.7	12136.2	11296.5	10513.0	9832.3	9318.6	8995.3	8852.8
67.5°	13973.0	12060.9	10621.2	9509.0	8618.6	7996.7	7647.5	7473.4
70°	12278.7	10002.1	8436.4	7322.9	6512.0	5849.0	5532.5	5346.3
72.5°	8447.4	6362.5	5031.1	4106.6	3458.7	2904.0	2684.8	2668.3
75°	3793.0	2512.2	1731.5	1334.2	1123.2	976.6	931.5	897.1
77.5°	1061.5	784.8	700.0	654.8	610.8	560.3	541.0	545.2
80°	516.3	487.6	468.5	439.7	399.9	357.5	338.3	346.6
82.5°	342.4	338.3	350.7	330.0	272.5	231.6	194.6	178.0
85°	208.1	210.9	215.1	216.4	183.6	128.7	87.7	98.6
87.5°	82.1	94.5	102.8	106.9	100.0	61.7	49.2	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)