

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: P190795

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190795
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 29809.8 lumens
Efficiency: N/A
Efficacy: 131.9 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

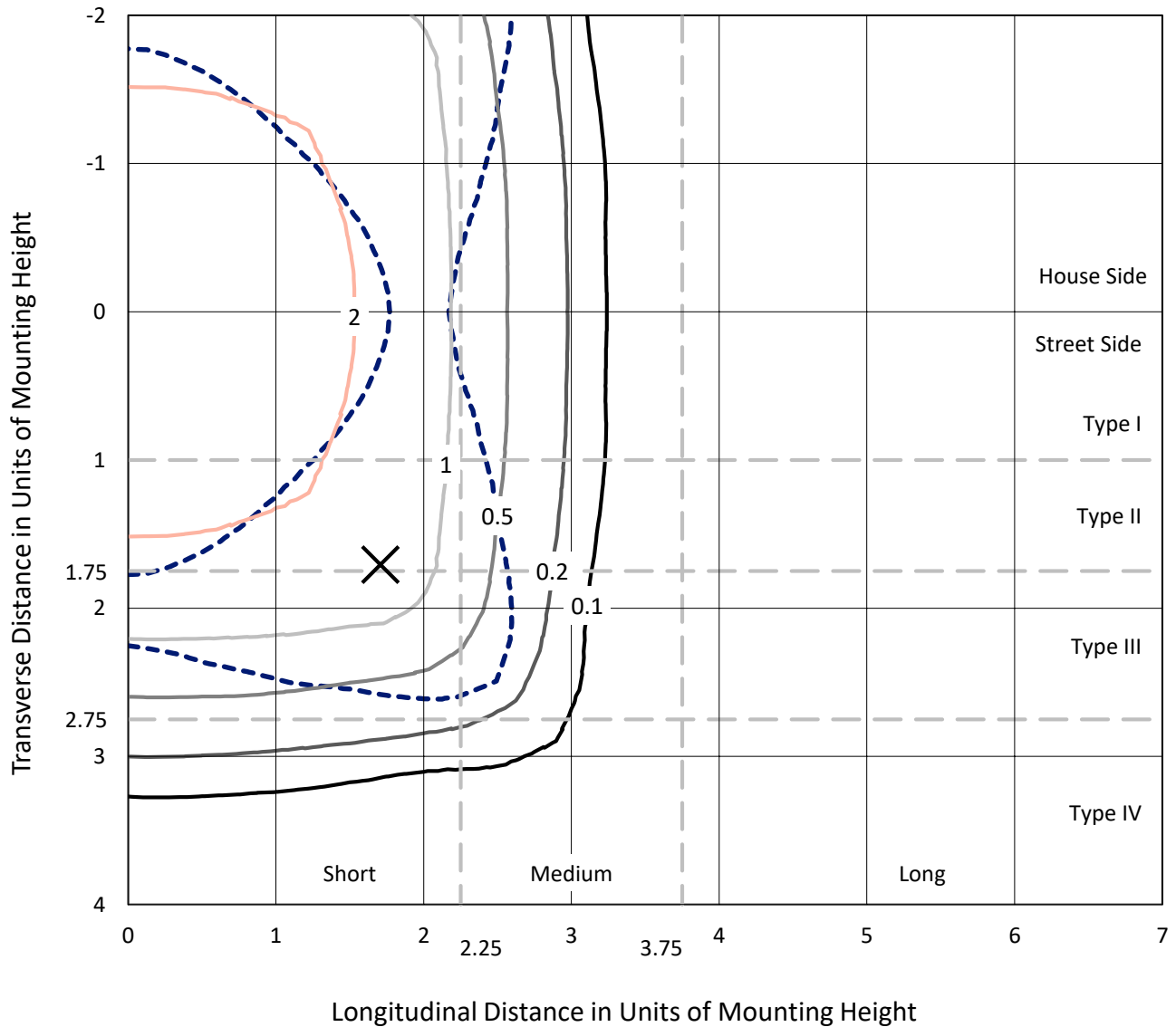
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

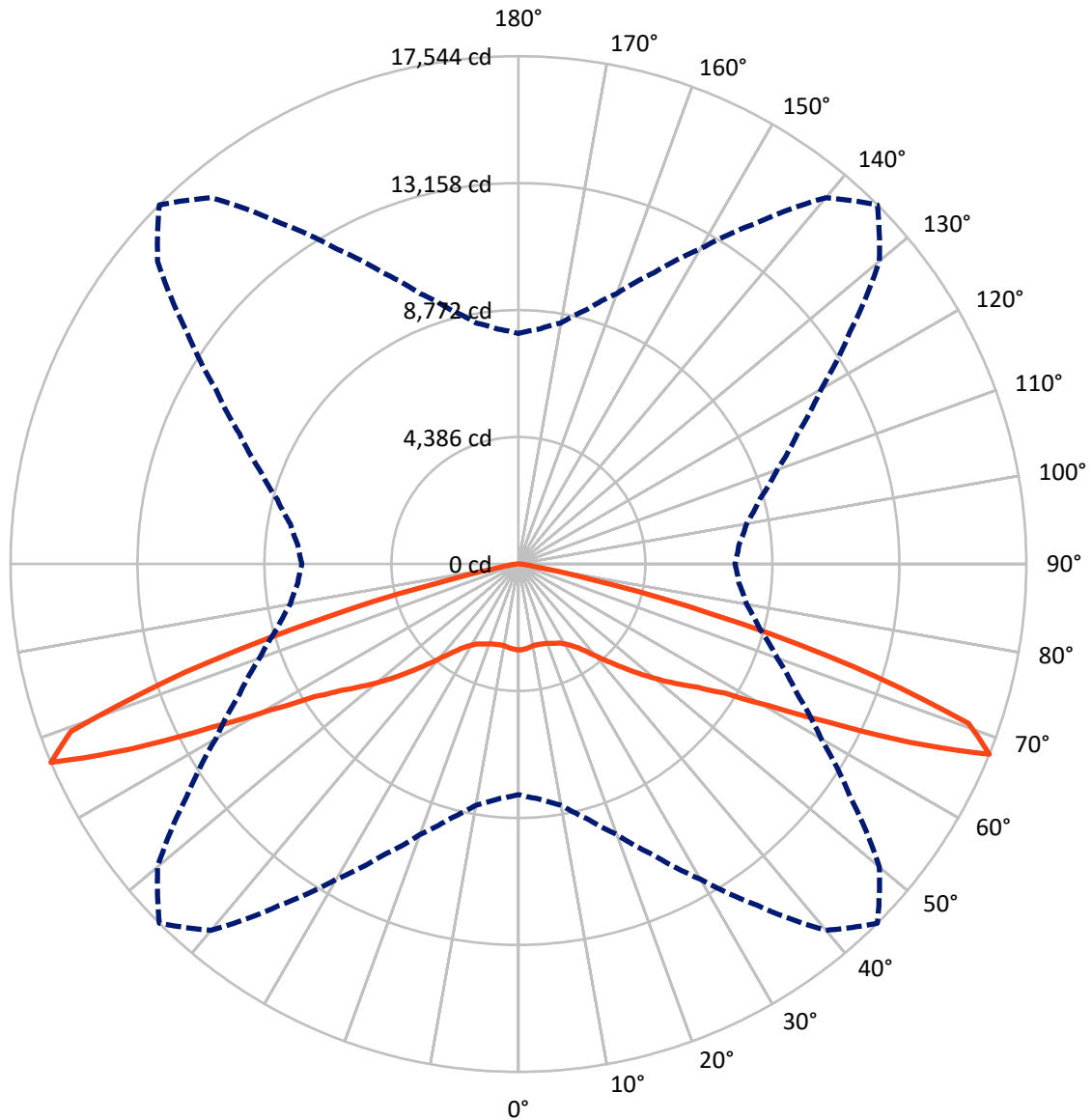
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	14904.9	0.0	14904.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14904.9	0.0	14904.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	29809.8	0.0	29809.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	0.9
10°-20°	806.8	2.7
20°-30°	1371.6	4.6
30°-40°	2242.1	7.5
40°-50°	4002.6	13.4
50°-60°	6748.5	22.6
60°-70°	10472.6	35.1
70°-80°	3679.6	12.3
80°-90°	207.9	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°	29809.8	100.0
0°-180°	29809.8	100.0

Coefficient of Utilization



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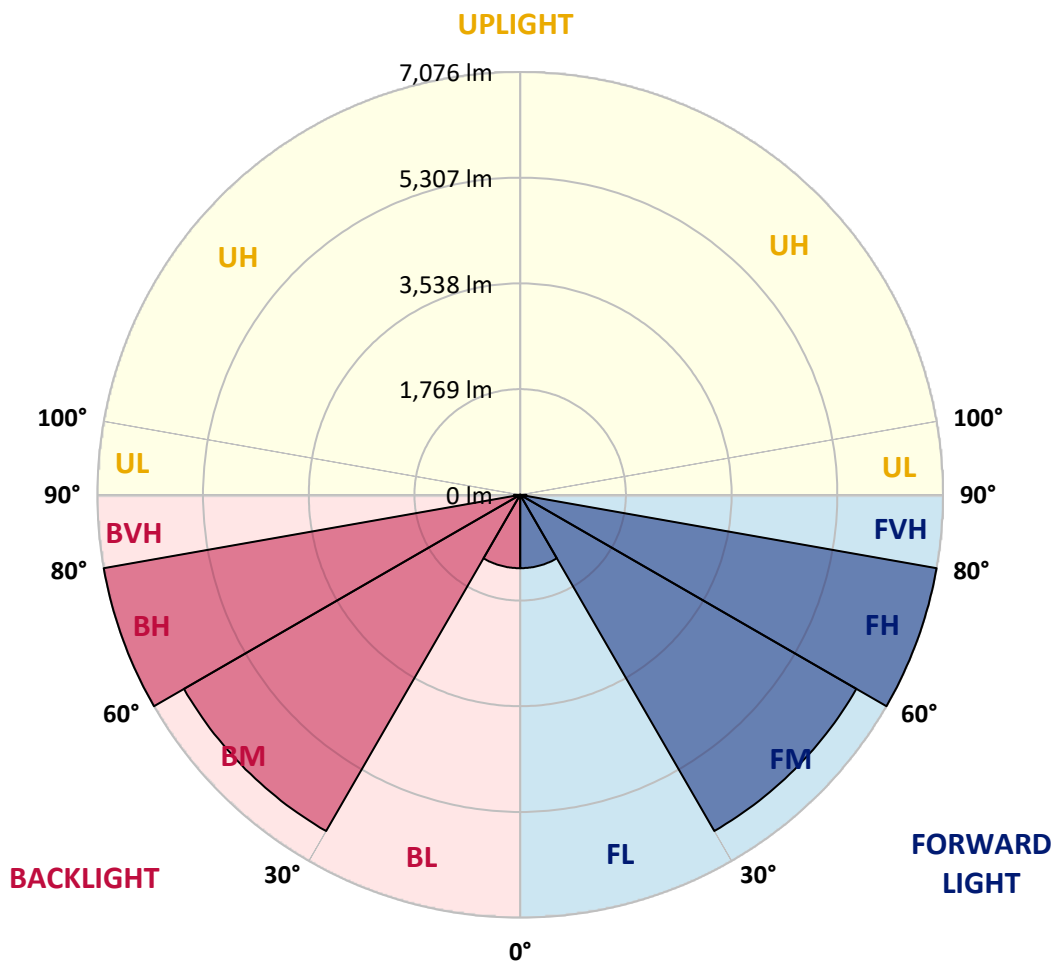
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1228.2	4.1			
FM	(30°-60°)	6496.6	21.8			
FH	(60°-80°)	7076.1	23.7			G3/7500
FVH	(80°-90°)	104.0	0.3			G2/225
BL	(0°-30°)	1228.2	4.1	B3/2500		
BM	(30°-60°)	6496.6	21.8	B4/8500		
BH	(60°-80°)	7076.1	23.7	B5		G3/7500
BVH	(80°-90°)	104.0	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°	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6
2.5°	2959.7	2962.5	2962.5	2962.5	2961.0	2961.0	2958.4	2961.0	2959.7	2955.6	2956.9
5°	2935.1	2937.8	2937.8	2936.4	2940.5	2939.1	2935.1	2937.8	2936.4	2933.6	2935.1
7.5°	2899.3	2903.5	2903.5	2902.1	2906.2	2904.9	2902.1	2903.5	2903.5	2899.3	2899.3
10°	2859.7	2862.4	2862.4	2861.0	2867.8	2867.8	2866.5	2870.6	2871.9	2867.8	2865.1
12.5°	2822.6	2826.7	2826.7	2832.2	2839.1	2841.9	2848.7	2854.1	2859.7	2858.2	2852.8
15°	2800.6	2803.4	2808.9	2815.8	2826.7	2836.3	2847.3	2859.7	2870.6	2873.4	2865.1
17.5°	2786.9	2791.1	2799.3	2808.9	2824.0	2840.4	2856.9	2873.4	2888.4	2893.9	2884.3
20°	2782.8	2785.6	2793.8	2810.3	2830.8	2855.6	2878.8	2898.0	2918.6	2925.4	2918.6
22.5°	2791.1	2796.5	2806.2	2825.4	2852.8	2884.3	2911.7	2937.8	2963.8	2976.2	2966.6
25°	2828.2	2833.6	2846.0	2870.6	2900.8	2933.6	2965.2	2995.3	3018.6	3031.0	3024.1
27.5°	2896.7	2903.5	2918.6	2943.2	2976.2	3011.8	3046.0	3070.8	3089.9	3094.0	3085.8
30°	2999.5	3014.5	3032.3	3059.7	3098.2	3128.3	3162.6	3184.5	3207.9	3207.9	3201.0
32.5°	3159.9	3174.9	3194.2	3220.1	3250.3	3283.3	3313.4	3332.6	3357.2	3358.7	3342.2
35°	3399.8	3406.6	3423.1	3439.5	3466.9	3495.7	3521.7	3534.1	3554.7	3556.1	3540.9
37.5°	3716.4	3717.8	3728.8	3734.3	3758.9	3790.4	3815.1	3823.4	3842.5	3839.9	3824.7
40°	4085.2	4092.0	4096.2	4104.4	4130.5	4160.5	4186.6	4190.7	4211.3	4207.2	4188.0
42.5°	4511.5	4514.3	4537.6	4549.9	4574.6	4589.7	4622.6	4626.7	4651.4	4640.4	4618.4
45°	4990.0	5014.6	5036.6	5061.3	5087.3	5105.1	5131.1	5125.7	5142.2	5125.7	5113.3
47.5°	5493.0	5510.9	5560.2	5598.6	5641.2	5656.2	5693.2	5676.8	5693.2	5669.9	5665.8
50°	6046.9	6078.5	6120.9	6164.8	6210.0	6234.7	6282.7	6262.1	6284.1	6262.1	6249.8
52.5°	6592.5	6600.7	6694.0	6758.4	6821.4	6850.2	6879.0	6869.4	6870.8	6869.4	6857.0
55°	7110.7	7129.9	7223.2	7310.8	7420.5	7501.4	7550.7	7545.3	7532.9	7520.6	7500.1
57.5°	7694.7	7713.9	7820.8	7929.1	8053.9	8169.0	8269.1	8371.9	8411.6	8422.7	8377.4
60°	8484.4	8482.9	8625.5	8757.1	8935.4	9106.7	9326.0	9549.5	9805.8	9925.1	9767.4
62.5°	9287.7	9320.5	9526.1	9759.3	10126.6	10484.4	10888.8	11286.3	11692.1	12022.5	11671.6
65°	9191.7	9317.8	9623.5	10151.3	10829.9	11636.0	12507.8	13430.4	14263.9	14836.9	14194.0
67.5°	7966.1	8145.7	8456.9	9098.4	9947.1	11109.6	12573.6	14398.2	16519.0	17544.4	16273.6
70°	5774.1	5977.0	6303.2	6929.8	7770.1	8875.0	10465.2	12655.8	15463.4	16497.0	15097.4
72.5°	2873.4	2983.0	3184.5	3583.5	4219.6	5116.1	6558.2	8663.9	11147.9	12096.6	10817.5
75°	976.1	1026.7	1061.0	1191.3	1392.8	1745.2	2462.0	3787.7	5778.2	6927.0	5696.0
77.5°	563.4	564.8	588.1	611.4	645.7	684.0	780.0	1024.1	1771.1	2515.5	1832.8
80°	364.7	363.2	382.5	400.3	423.6	442.8	448.3	474.3	547.0	648.4	579.9
82.5°	189.1	212.5	255.0	278.2	322.1	330.4	319.4	309.9	327.7	339.9	348.2
85°	104.1	90.4	135.7	175.4	194.7	197.4	197.4	186.5	193.3	189.1	205.6
87.5°	48.0	43.9	53.5	86.3	91.9	78.2	82.2	72.6	52.1	50.7	57.6
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°	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6
2.5°	2956.9	2958.4	2958.4	2962.5	2963.8	2966.6	2969.3	2970.6
5°	2933.6	2937.8	2935.1	2939.1	2939.1	2941.9	2941.9	2943.2
7.5°	2899.3	2903.5	2903.5	2903.5	2902.1	2906.2	2906.2	2906.2
10°	2863.8	2866.5	2865.1	2862.4	2859.7	2863.8	2862.4	2861.0
12.5°	2852.8	2846.0	2840.4	2837.7	2832.2	2833.6	2829.5	2829.5
15°	2859.7	2847.3	2837.7	2833.6	2828.2	2825.4	2822.6	2824.0
17.5°	2877.5	2862.4	2850.0	2843.2	2836.3	2832.2	2826.7	2828.2
20°	2909.0	2891.2	2873.4	2859.7	2847.3	2840.4	2836.3	2835.0
22.5°	2955.6	2929.5	2903.5	2883.0	2866.5	2856.9	2852.8	2850.0
25°	3009.0	2980.3	2950.1	2926.8	2910.4	2898.0	2889.8	2889.8
27.5°	3076.2	3052.9	3025.5	2998.1	2983.0	2970.6	2965.2	2962.5
30°	3188.6	3166.7	3144.8	3118.8	3099.5	3087.2	3077.6	3069.4
32.5°	3332.6	3314.8	3297.0	3277.7	3259.9	3243.5	3228.4	3221.6
35°	3535.4	3521.7	3509.4	3487.4	3480.6	3471.1	3462.8	3455.9
37.5°	3815.1	3809.7	3809.7	3786.4	3780.8	3776.7	3768.6	3769.9
40°	4182.5	4188.0	4181.1	4172.9	4168.8	4157.9	4157.9	4167.4
42.5°	4617.1	4621.2	4636.3	4622.6	4637.6	4623.9	4615.8	4622.6
45°	5121.6	5136.6	5166.8	5153.1	5162.7	5139.4	5110.6	5112.0
47.5°	5687.7	5701.4	5713.8	5704.2	5705.5	5667.1	5628.8	5619.2
50°	6275.8	6281.3	6288.2	6274.5	6277.2	6234.7	6190.8	6192.2
52.5°	6857.0	6883.1	6910.5	6873.5	6865.3	6817.4	6755.7	6731.0
55°	7522.0	7559.0	7527.5	7463.0	7398.6	7334.1	7253.2	7239.5
57.5°	8341.8	8278.6	8180.0	8058.0	7968.9	7878.4	7796.1	7761.8
60°	9482.3	9245.1	9066.9	8886.0	8772.2	8661.1	8552.9	8536.4
62.5°	11094.4	10684.5	10329.5	9955.3	9649.6	9411.0	9220.5	9167.0
65°	13115.2	12145.9	11305.6	10521.5	9840.1	9326.0	9002.5	8859.9
67.5°	13984.2	12070.5	10629.7	9516.6	8625.5	8003.2	7653.5	7479.5
70°	12288.5	10010.1	8443.2	7328.6	6517.1	5853.6	5536.9	5350.5
72.5°	8454.2	6367.7	5035.2	4109.9	3461.5	2906.2	2686.9	2670.4
75°	3796.0	2514.2	1732.8	1335.3	1124.1	977.4	932.2	897.9
77.5°	1062.4	785.5	700.5	655.3	611.4	560.7	541.4	545.6
80°	516.8	488.0	468.8	440.1	400.3	357.8	338.6	346.8
82.5°	342.7	338.6	351.0	330.4	272.8	231.7	194.7	178.2
85°	208.4	211.1	215.2	216.6	183.7	128.9	87.8	98.7
87.5°	82.2	94.6	102.8	106.9	100.0	61.7	49.3	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)