

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: P269522

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269522
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-08-LED-E1-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 28686.8 lumens
Efficiency: N/A
Efficacy: 111.6 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): 257
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

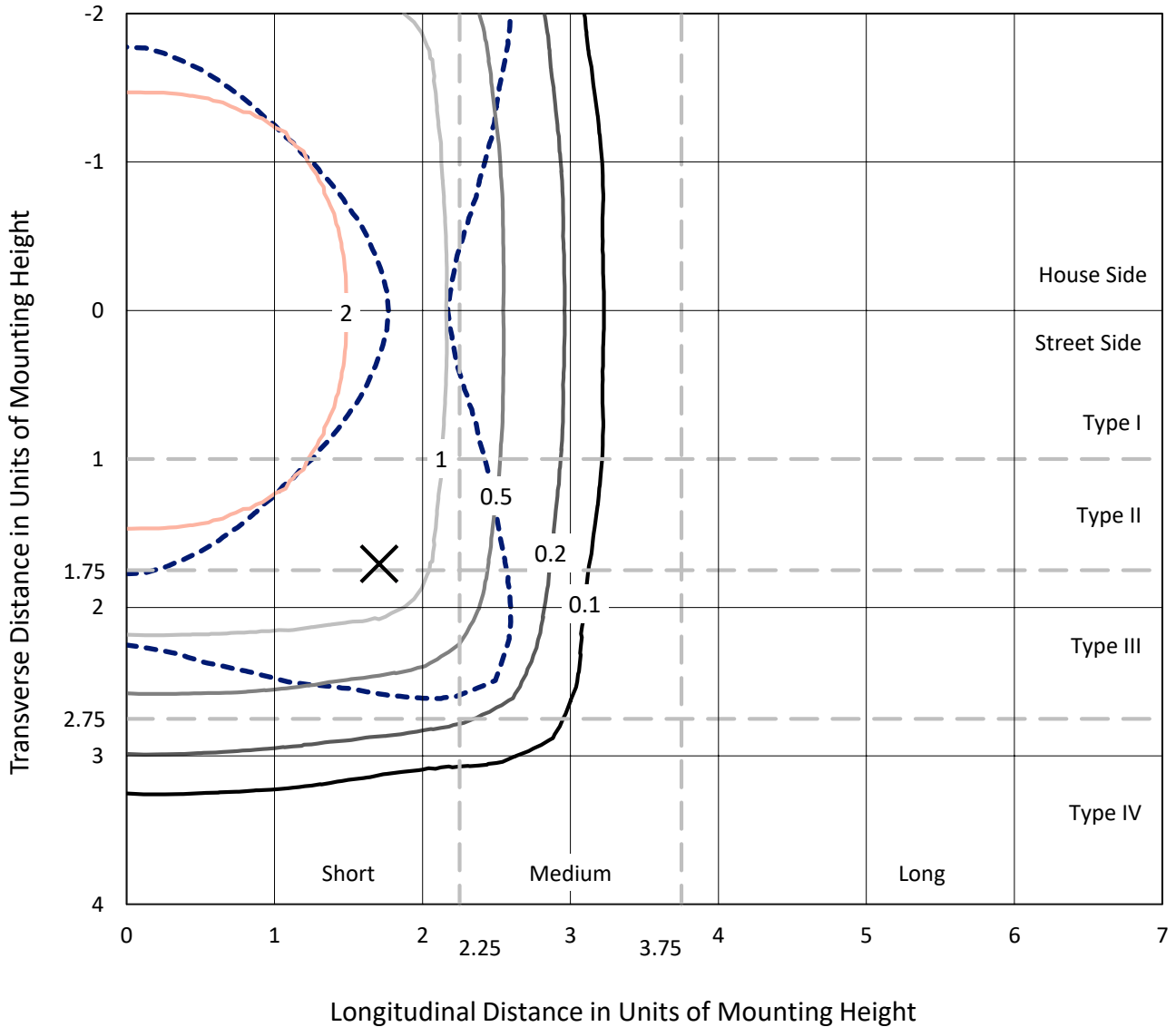


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

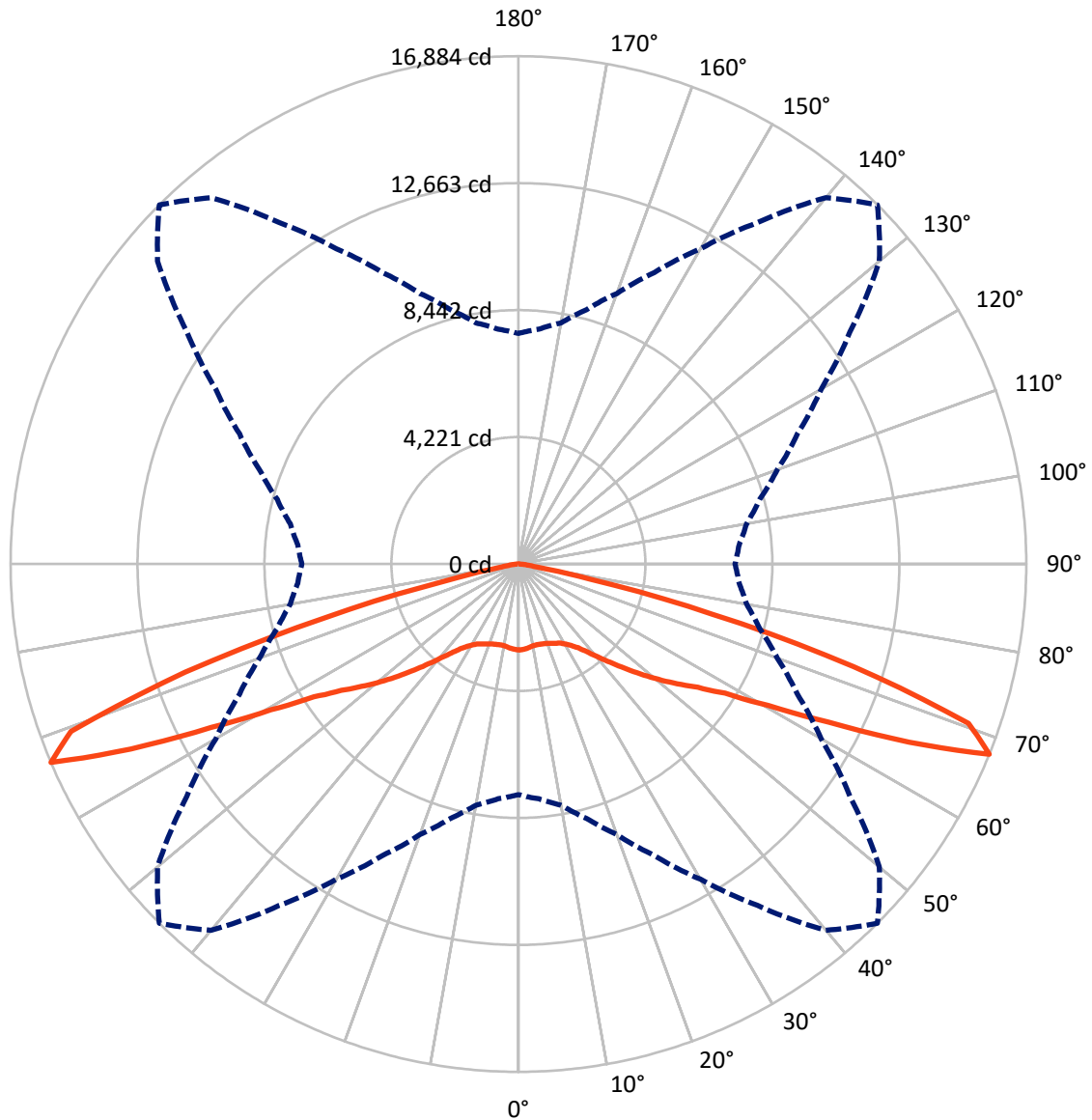


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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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	14343.4	0.0	14343.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14343.4	0.0	14343.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	28686.8	0.0	28686.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	0.9
10°-20°	776.4	2.7
20°-30°	1319.9	4.6
30°-40°	2157.7	7.5
40°-50°	3851.8	13.4
50°-60°	6494.2	22.6
60°-70°	10078.1	35.1
70°-80°	3541.0	12.3
80°-90°	200.1	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°	28686.8	100.0
0°-180°	28686.8	100.0



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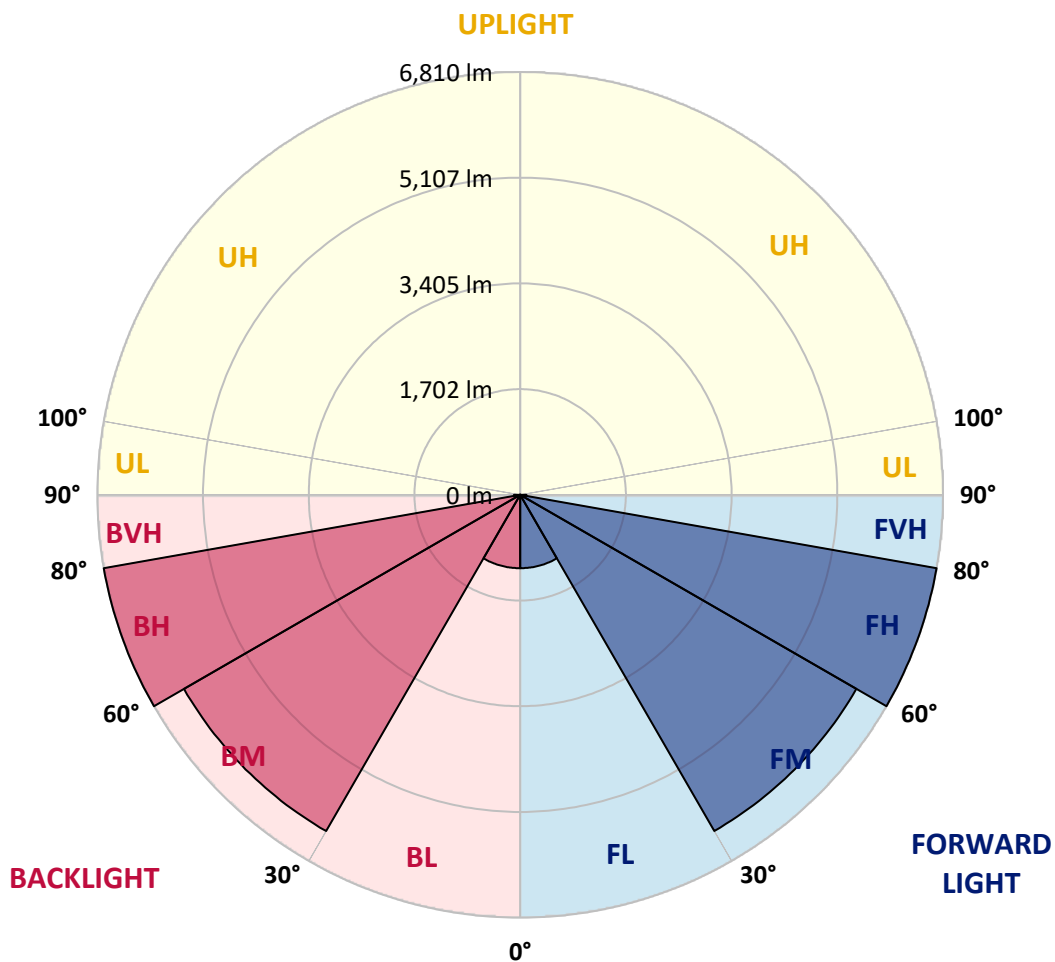
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.0	4.1			
FM (30°-60°)	6251.8	21.8			
FH (60°-80°)	6809.5	23.7			G3/7500
FVH (80°-90°)	100.1	0.3			G2/225
BL (0°-30°)	1182.0	4.1	B3/2500		
BM (30°-60°)	6251.8	21.8	B4/8500		
BH (60°-80°)	6809.5	23.7	B5		G3/7500
BVH (80°-90°)	100.1	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°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2848.2	2850.9	2850.9	2850.9	2849.6	2849.6	2846.9	2849.6	2848.2	2844.3	2845.7
5°	2824.5	2827.1	2827.1	2825.8	2829.8	2828.5	2824.5	2827.1	2825.8	2823.2	2824.5
7.5°	2790.1	2794.1	2794.1	2792.8	2796.8	2795.4	2792.8	2794.1	2794.1	2790.1	2790.1
10°	2751.9	2754.6	2754.6	2753.2	2759.9	2759.9	2758.4	2762.5	2763.7	2759.9	2757.2
12.5°	2716.2	2720.2	2720.2	2725.5	2732.1	2734.7	2741.4	2746.6	2751.9	2750.6	2745.3
15°	2695.2	2697.8	2703.1	2709.6	2720.2	2729.5	2740.0	2751.9	2762.5	2765.2	2757.2
17.5°	2682.0	2685.9	2693.8	2703.1	2717.6	2733.5	2749.3	2765.2	2779.5	2784.8	2775.7
20°	2677.9	2680.6	2688.5	2704.3	2724.2	2747.9	2770.4	2788.9	2808.6	2815.2	2808.6
22.5°	2685.9	2691.2	2700.5	2718.9	2745.3	2775.7	2802.1	2827.1	2852.2	2864.1	2854.9
25°	2721.5	2726.8	2738.8	2762.5	2791.5	2823.2	2853.5	2882.5	2904.8	2916.7	2910.1
27.5°	2787.5	2794.1	2808.6	2832.4	2864.1	2898.3	2931.3	2955.1	2973.5	2977.5	2969.5
30°	2886.4	2900.9	2918.1	2944.6	2981.5	3010.5	3043.5	3064.6	3086.9	3086.9	3080.4
32.5°	3040.9	3055.3	3073.8	3098.9	3127.9	3159.6	3188.5	3206.9	3230.8	3232.1	3216.2
35°	3271.6	3278.3	3294.2	3310.0	3336.3	3364.1	3389.0	3401.0	3420.7	3422.1	3407.5
37.5°	3576.4	3577.7	3588.3	3593.6	3617.4	3647.7	3671.5	3679.3	3697.8	3695.2	3680.6
40°	3931.3	3937.9	3941.9	3949.8	3974.8	4003.8	4028.9	4032.9	4052.7	4048.8	4030.2
42.5°	4341.6	4344.3	4366.7	4378.5	4402.2	4416.7	4448.3	4452.4	4476.2	4465.6	4444.5
45°	4802.0	4825.8	4846.9	4870.6	4895.7	4912.8	4937.9	4932.6	4948.5	4932.6	4920.6
47.5°	5286.2	5303.2	5350.8	5387.8	5428.5	5443.1	5478.8	5463.0	5478.8	5456.3	5452.4
50°	5819.1	5849.5	5890.4	5932.5	5976.1	5999.8	6046.0	6026.2	6047.3	6026.2	6014.3
52.5°	6344.1	6352.1	6441.7	6503.8	6564.5	6592.1	6619.9	6610.6	6612.0	6610.6	6598.8
55°	6842.7	6861.3	6950.9	7035.4	7140.9	7218.8	7266.3	7261.0	7249.1	7237.3	7217.4
57.5°	7404.8	7423.2	7526.2	7630.5	7750.4	7861.2	7957.5	8056.4	8094.7	8105.2	8061.7
60°	8164.6	8163.3	8300.6	8427.2	8598.7	8763.5	8974.6	9189.8	9436.3	9551.1	9399.4
62.5°	8937.7	8969.3	9167.3	9391.5	9745.2	10089.5	10478.5	10861.1	11251.6	11569.6	11231.9
65°	8845.4	8966.7	9260.9	9768.9	10421.9	11197.6	12036.6	12924.5	13726.6	14277.9	13659.2
67.5°	7666.0	7838.8	8138.3	8755.7	9572.2	10691.0	12099.9	13855.7	15896.6	16883.5	15660.5
70°	5556.6	5751.8	6065.7	6668.7	7477.3	8540.6	10071.0	12179.1	14880.9	15875.6	14528.6
72.5°	2765.2	2870.7	3064.6	3448.5	4060.6	4923.3	6311.1	8337.4	10727.9	11640.9	10410.0
75°	939.3	988.0	1021.1	1146.3	1340.4	1679.4	2369.3	3645.1	5560.5	6666.1	5481.4
77.5°	542.1	543.6	565.9	588.4	621.4	658.3	750.7	985.5	1704.4	2420.8	1763.8
80°	350.9	349.6	368.0	385.3	407.7	426.1	431.4	456.5	526.3	624.1	558.0
82.5°	182.0	204.5	245.3	267.9	310.1	317.9	307.4	298.1	315.2	327.2	335.1
85°	100.3	87.0	130.7	168.8	187.3	190.0	190.0	179.4	185.9	182.0	197.8
87.5°	46.2	42.2	51.5	83.2	88.5	75.2	79.1	69.9	50.1	48.8	55.4
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°	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8	2858.8
2.5°	2845.7	2846.9	2846.9	2850.9	2852.2	2854.9	2857.4	2858.8
5°	2823.2	2827.1	2824.5	2828.5	2828.5	2831.1	2831.1	2832.4
7.5°	2790.1	2794.1	2794.1	2794.1	2792.8	2796.8	2796.8	2796.8
10°	2755.9	2758.4	2757.2	2754.6	2751.9	2755.9	2754.6	2753.2
12.5°	2745.3	2738.8	2733.5	2730.8	2725.5	2726.8	2722.9	2722.9
15°	2751.9	2740.0	2730.8	2726.8	2721.5	2718.9	2716.2	2717.6
17.5°	2769.0	2754.6	2742.6	2736.1	2729.5	2725.5	2720.2	2721.5
20°	2799.4	2782.2	2765.2	2751.9	2740.0	2733.5	2729.5	2728.2
22.5°	2844.3	2819.2	2794.1	2774.3	2758.4	2749.3	2745.3	2742.6
25°	2895.6	2868.0	2839.0	2816.5	2800.7	2788.9	2781.0	2781.0
27.5°	2960.4	2937.8	2911.5	2885.1	2870.7	2858.8	2853.5	2850.9
30°	3068.5	3047.4	3026.3	3001.2	2982.7	2970.9	2961.6	2953.7
32.5°	3206.9	3189.9	3172.8	3154.3	3137.2	3121.3	3106.8	3100.2
35°	3402.3	3389.0	3377.2	3356.1	3349.5	3340.3	3332.4	3325.7
37.5°	3671.5	3666.2	3666.2	3643.6	3638.4	3634.5	3626.5	3627.9
40°	4024.9	4030.2	4023.6	4015.8	4011.7	4001.2	4001.2	4010.5
42.5°	4443.1	4447.1	4461.6	4448.3	4462.9	4449.8	4441.8	4448.3
45°	4928.6	4943.2	4972.2	4959.0	4968.2	4945.8	4918.1	4919.4
47.5°	5473.5	5486.7	5498.5	5489.4	5490.6	5453.7	5416.7	5407.4
50°	6039.5	6044.6	6051.3	6038.0	6040.7	5999.8	5957.6	5958.9
52.5°	6598.8	6623.8	6650.2	6614.6	6606.7	6560.5	6501.2	6477.4
55°	7238.5	7274.1	7243.8	7181.9	7119.8	7057.9	6980.0	6966.9
57.5°	8027.4	7966.8	7871.8	7754.3	7668.7	7581.5	7502.5	7469.4
60°	9125.1	8896.9	8725.3	8551.1	8441.7	8334.8	8230.6	8214.8
62.5°	10676.4	10282.0	9940.4	9580.2	9286.0	9056.4	8873.1	8821.6
65°	12620.9	11688.2	10879.6	10125.1	9469.4	8974.6	8663.3	8526.2
67.5°	13457.4	11615.8	10229.3	9158.0	8300.6	7701.6	7365.3	7197.7
70°	11825.5	9633.0	8125.1	7052.6	6271.5	5633.1	5328.3	5148.9
72.5°	8135.6	6127.8	4845.5	3955.1	3331.1	2796.8	2585.7	2569.8
75°	3652.9	2419.4	1667.6	1284.9	1081.7	940.6	897.0	864.1
77.5°	1022.5	756.0	674.1	630.6	588.4	539.5	521.0	525.1
80°	497.3	469.6	451.2	423.6	385.3	344.3	325.8	333.8
82.5°	329.8	325.8	337.8	317.9	262.6	223.0	187.3	171.4
85°	200.5	203.1	207.1	208.4	176.7	124.0	84.4	95.0
87.5°	79.1	91.0	99.0	102.9	96.3	59.4	47.5	48.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)