

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: P191596

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191596
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33019 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

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

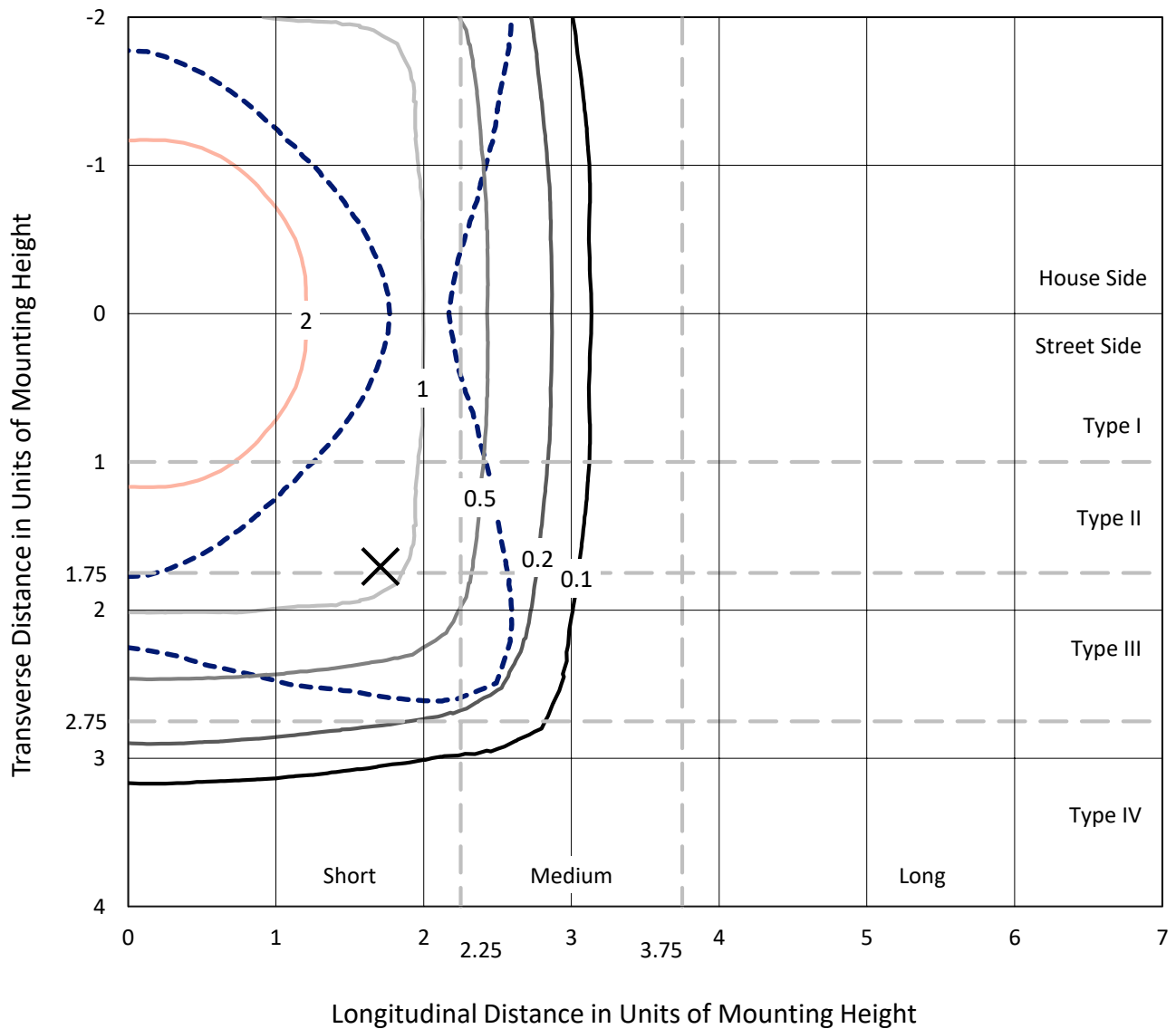


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Iso-Footcandle Lines of Horizontal Illumination

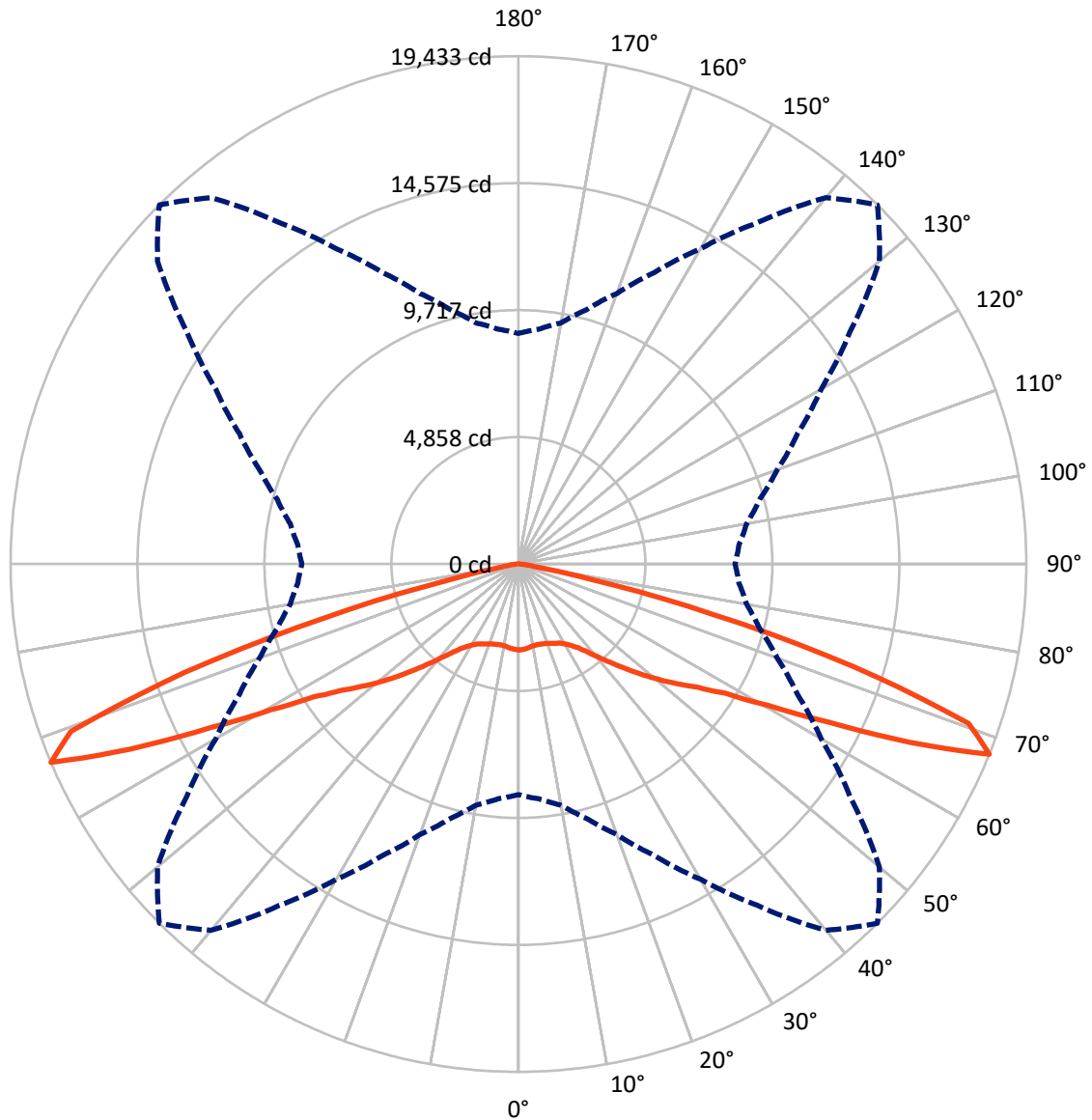
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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	16509.5	0.0	16509.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16509.5	0.0	16509.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33019.0	0.0	33019.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.0	0.9
10°-20°	893.7	2.7
20°-30°	1519.2	4.6
30°-40°	2483.5	7.5
40°-50°	4433.5	13.4
50°-60°	7475.0	22.6
60°-70°	11600.1	35.1
70°-80°	4075.7	12.3
80°-90°	230.3	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°	33019.0	100.0
0°-180°	33019.0	100.0



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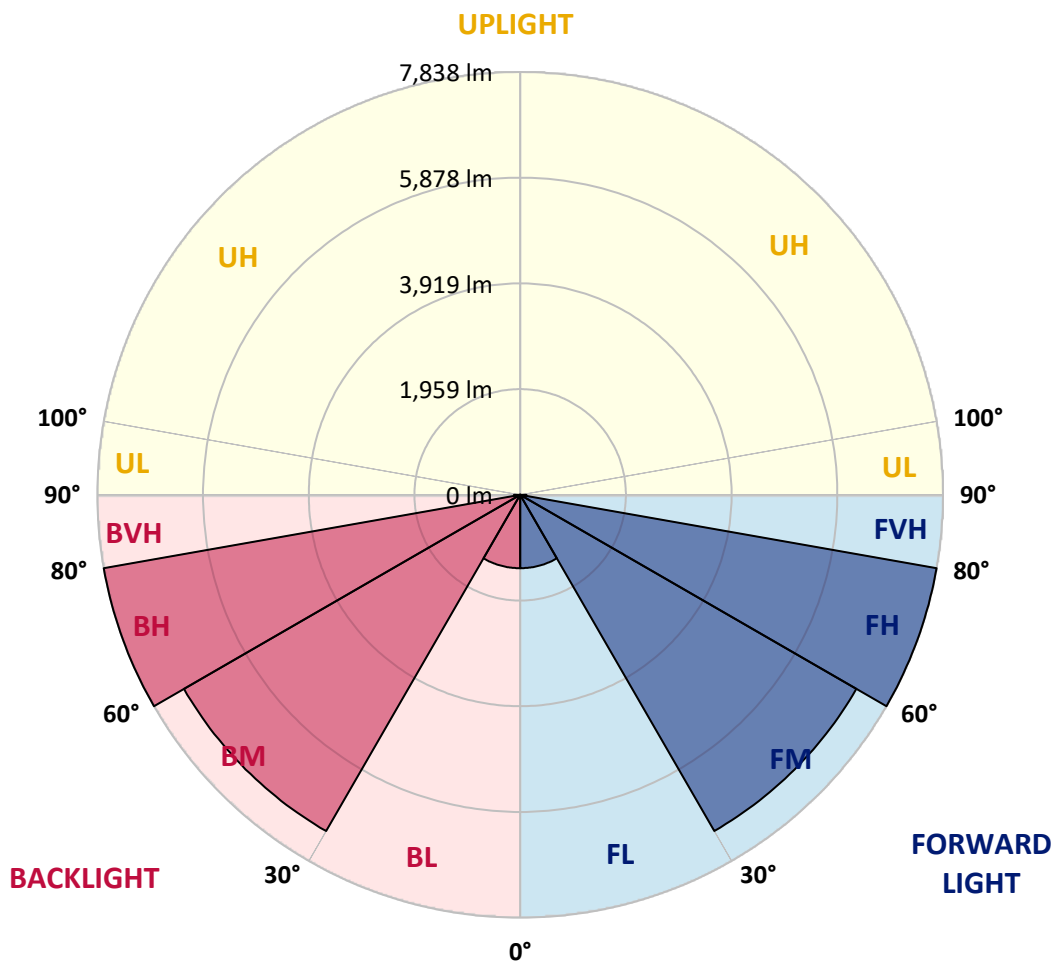
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.4	4.1			
FM (30°-60°)	7196.0	21.8			
FH (60°-80°)	7837.9	23.7			G4/12000
FVH (80°-90°)	115.2	0.3			G2/225
BL (0°-30°)	1360.4	4.1	B3/2500		
BM (30°-60°)	7196.0	21.8	B4/8500		
BH (60°-80°)	7837.9	23.7	B5		G4/12000
BVH (80°-90°)	115.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5
2.5°	3278.3	3281.4	3281.4	3281.4	3279.9	3279.9	3276.8	3279.9	3278.3	3273.8	3275.3
5°	3251.0	3254.0	3254.0	3252.5	3257.1	3255.6	3251.0	3254.0	3252.5	3249.5	3251.0
7.5°	3211.5	3216.1	3216.1	3214.6	3219.1	3217.6	3214.6	3216.1	3216.1	3211.5	3211.5
10°	3167.5	3170.5	3170.5	3169.0	3176.6	3176.6	3175.1	3179.6	3181.2	3176.6	3173.6
12.5°	3126.5	3131.0	3131.0	3137.1	3144.7	3147.7	3155.3	3161.4	3167.5	3166.0	3159.9
15°	3102.2	3105.2	3111.3	3118.9	3131.0	3141.7	3153.8	3167.5	3179.6	3182.7	3173.6
17.5°	3087.0	3091.6	3100.7	3111.3	3128.0	3146.2	3164.5	3182.7	3199.4	3205.4	3194.8
20°	3082.5	3085.5	3094.6	3112.8	3135.6	3162.9	3188.7	3210.0	3232.8	3240.4	3232.8
22.5°	3091.6	3097.6	3108.3	3129.5	3159.9	3194.8	3225.2	3254.0	3282.9	3296.6	3285.9
25°	3132.6	3138.6	3152.3	3179.6	3213.0	3249.5	3284.4	3317.8	3343.6	3357.3	3349.7
27.5°	3208.5	3216.1	3232.8	3260.1	3296.6	3336.0	3374.0	3401.3	3422.6	3427.1	3418.0
30°	3322.4	3339.1	3358.8	3389.2	3431.7	3465.1	3503.1	3527.4	3553.2	3553.2	3545.6
32.5°	3500.0	3516.7	3538.0	3566.8	3600.2	3636.7	3670.1	3691.4	3718.7	3720.2	3702.0
35°	3765.8	3773.3	3791.6	3809.8	3840.2	3872.0	3900.9	3914.6	3937.3	3938.9	3922.2
37.5°	4116.5	4118.0	4130.2	4136.3	4163.6	4198.5	4225.8	4235.0	4256.2	4253.2	4236.5
40°	4525.0	4532.6	4537.1	4546.2	4575.1	4608.5	4637.3	4641.9	4664.7	4660.1	4638.9
42.5°	4997.2	5000.3	5026.1	5039.7	5067.1	5083.8	5120.2	5124.8	5152.1	5140.0	5115.7
45°	5527.2	5554.5	5578.8	5606.1	5635.0	5654.7	5683.6	5677.5	5695.7	5677.5	5663.8
47.5°	6084.4	6104.2	6158.8	6201.4	6248.4	6265.1	6306.1	6287.9	6306.1	6280.3	6275.8
50°	6697.9	6732.8	6779.9	6828.5	6878.6	6905.9	6959.1	6936.3	6960.6	6936.3	6922.6
52.5°	7302.2	7311.3	7414.6	7486.0	7555.8	7587.7	7619.6	7609.0	7610.5	7609.0	7595.3
55°	7876.2	7897.5	8000.7	8097.9	8219.4	8309.0	8363.6	8357.6	8343.9	8330.2	8307.4
57.5°	8523.1	8544.3	8662.8	8782.7	8920.9	9048.4	9159.3	9273.2	9317.2	9329.4	9279.3
60°	9397.7	9396.2	9554.1	9699.9	9897.3	10087.1	10330.0	10577.5	10861.5	10993.6	10819.0
62.5°	10287.5	10323.9	10551.7	10809.9	11216.8	11613.1	12061.1	12501.4	12950.9	13316.8	12928.1
65°	10181.2	10320.9	10659.5	11244.1	11995.8	12888.6	13854.3	14876.3	15799.5	16434.2	15722.0
67.5°	8823.7	9022.6	9367.3	10078.0	11017.9	12305.5	13927.2	15948.3	18297.3	19433.1	18025.5
70°	6395.7	6620.4	6981.8	7675.8	8606.6	9830.4	11591.9	14018.3	17128.1	18273.0	16722.7
72.5°	3182.7	3304.1	3527.4	3969.2	4673.8	5666.9	7264.3	9596.6	12348.0	13398.8	11982.1
75°	1081.1	1137.3	1175.3	1319.5	1542.7	1933.0	2727.1	4195.5	6400.3	7672.7	6309.2
77.5°	624.1	625.6	651.4	677.2	715.2	757.7	864.0	1134.3	1961.8	2786.4	2030.2
80°	403.9	402.4	423.6	443.4	469.2	490.5	496.5	525.4	605.9	718.2	642.3
82.5°	209.5	235.4	282.4	308.2	356.8	365.9	353.8	343.2	362.9	376.6	385.7
85°	115.4	100.2	150.3	194.4	215.6	218.7	218.7	206.5	214.1	209.5	227.8
87.5°	53.1	48.6	59.2	95.7	101.7	86.6	91.1	80.5	57.7	56.2	63.8
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°	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5	3290.5
2.5°	3275.3	3276.8	3276.8	3281.4	3282.9	3285.9	3289.0	3290.5
5°	3249.5	3254.0	3251.0	3255.6	3255.6	3258.6	3258.6	3260.1
7.5°	3211.5	3216.1	3216.1	3216.1	3214.6	3219.1	3219.1	3219.1
10°	3172.0	3175.1	3173.6	3170.5	3167.5	3172.0	3170.5	3169.0
12.5°	3159.9	3152.3	3146.2	3143.2	3137.1	3138.6	3134.1	3134.1
15°	3167.5	3153.8	3143.2	3138.6	3132.6	3129.5	3126.5	3128.0
17.5°	3187.2	3170.5	3156.9	3149.3	3141.7	3137.1	3131.0	3132.6
20°	3222.2	3202.4	3182.7	3167.5	3153.8	3146.2	3141.7	3140.2
22.5°	3273.8	3244.9	3216.1	3193.3	3175.1	3164.5	3159.9	3156.9
25°	3333.0	3301.1	3267.7	3241.9	3223.7	3210.0	3200.9	3200.9
27.5°	3407.4	3381.6	3351.2	3320.9	3304.1	3290.5	3284.4	3281.4
30°	3531.9	3507.6	3483.3	3454.5	3433.2	3419.6	3408.9	3399.8
32.5°	3691.4	3671.6	3651.9	3630.6	3610.9	3592.7	3576.0	3568.4
35°	3916.1	3900.9	3887.2	3862.9	3855.3	3844.7	3835.6	3828.0
37.5°	4225.8	4219.8	4219.8	4194.0	4187.9	4183.3	4174.2	4175.7
40°	4632.8	4638.9	4631.3	4622.2	4617.6	4605.5	4605.5	4616.1
42.5°	5114.1	5118.7	5135.4	5120.2	5136.9	5121.7	5112.6	5120.2
45°	5672.9	5689.6	5723.0	5707.9	5718.5	5692.7	5660.8	5662.3
47.5°	6300.1	6315.2	6328.9	6318.3	6319.8	6277.3	6234.8	6224.1
50°	6951.5	6957.5	6965.1	6949.9	6953.0	6905.9	6857.3	6858.8
52.5°	7595.3	7624.1	7654.5	7613.5	7604.4	7551.3	7482.9	7455.6
55°	8331.7	8372.7	8337.8	8266.4	8195.1	8123.7	8034.1	8018.9
57.5°	9239.8	9169.9	9060.6	8925.5	8826.8	8726.5	8635.4	8597.5
60°	10503.1	10240.4	10043.0	9842.6	9716.6	9593.6	9473.6	9455.4
62.5°	12288.8	11834.8	11441.5	11027.0	10688.4	10424.2	10213.1	10153.9
65°	14527.0	13453.5	12522.7	11654.1	10899.4	10330.0	9971.7	9813.7
67.5°	15489.7	13370.0	11774.1	10541.1	9554.1	8864.7	8477.5	8284.7
70°	13611.4	11087.7	9352.1	8117.6	7218.7	6483.8	6133.0	5926.5
72.5°	9364.3	7053.2	5577.3	4552.3	3834.1	3219.1	2976.2	2957.9
75°	4204.6	2784.8	1919.3	1479.0	1245.1	1082.7	1032.5	994.6
77.5°	1176.8	870.1	775.9	725.8	677.2	621.0	599.8	604.3
80°	572.5	540.6	519.3	487.4	443.4	396.3	375.1	384.2
82.5°	379.6	375.1	388.7	365.9	302.2	256.6	215.6	197.4
85°	230.8	233.8	238.4	239.9	203.5	142.7	97.2	109.3
87.5°	91.1	104.8	113.9	118.4	110.8	68.3	54.7	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)