

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: P193345

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193345
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29159 lumens
Efficiency: N/A
Efficacy: 98.8 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

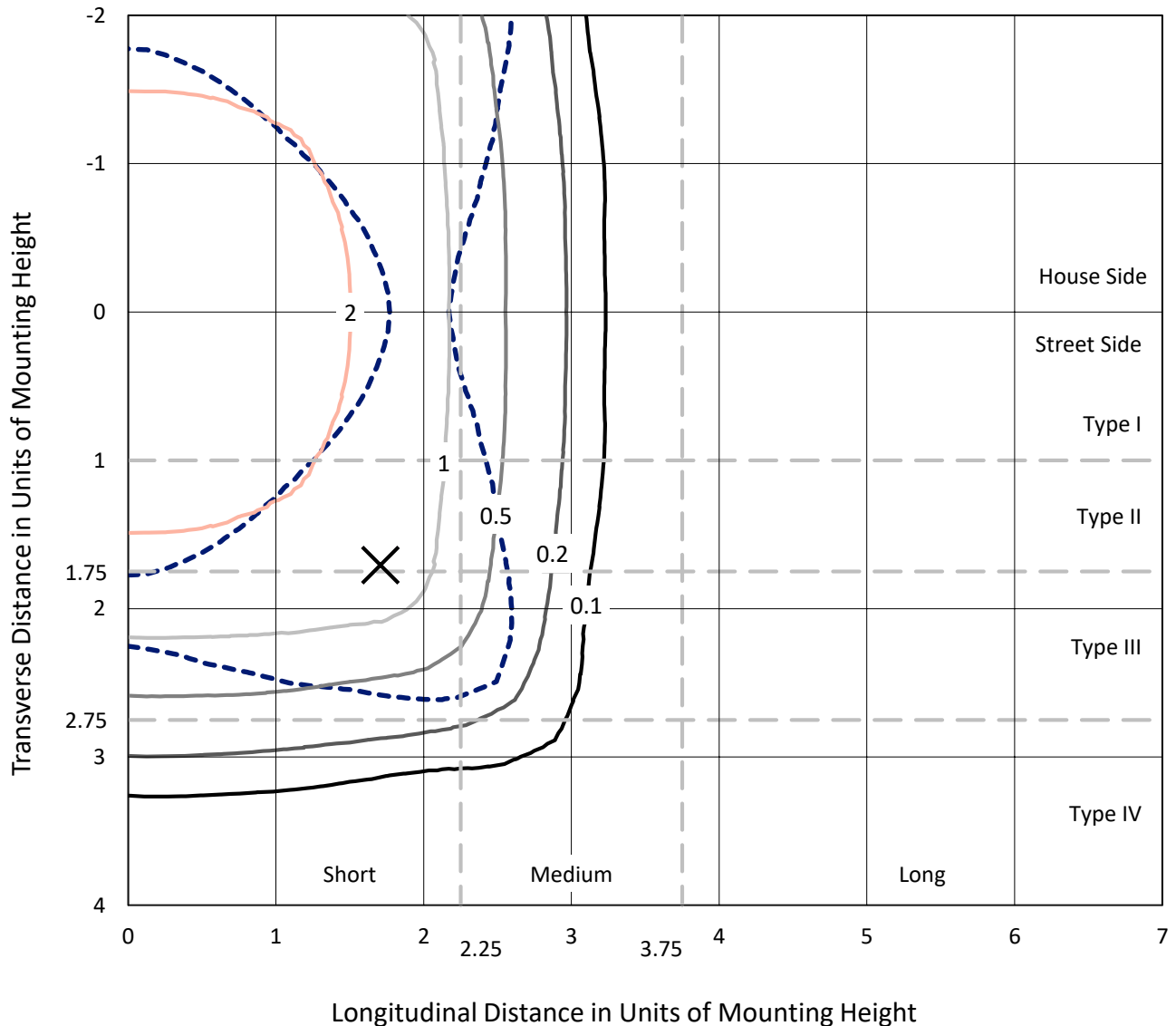
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193345
 CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-8030-800

Iso-Footcandle Lines of Horizontal Illumination

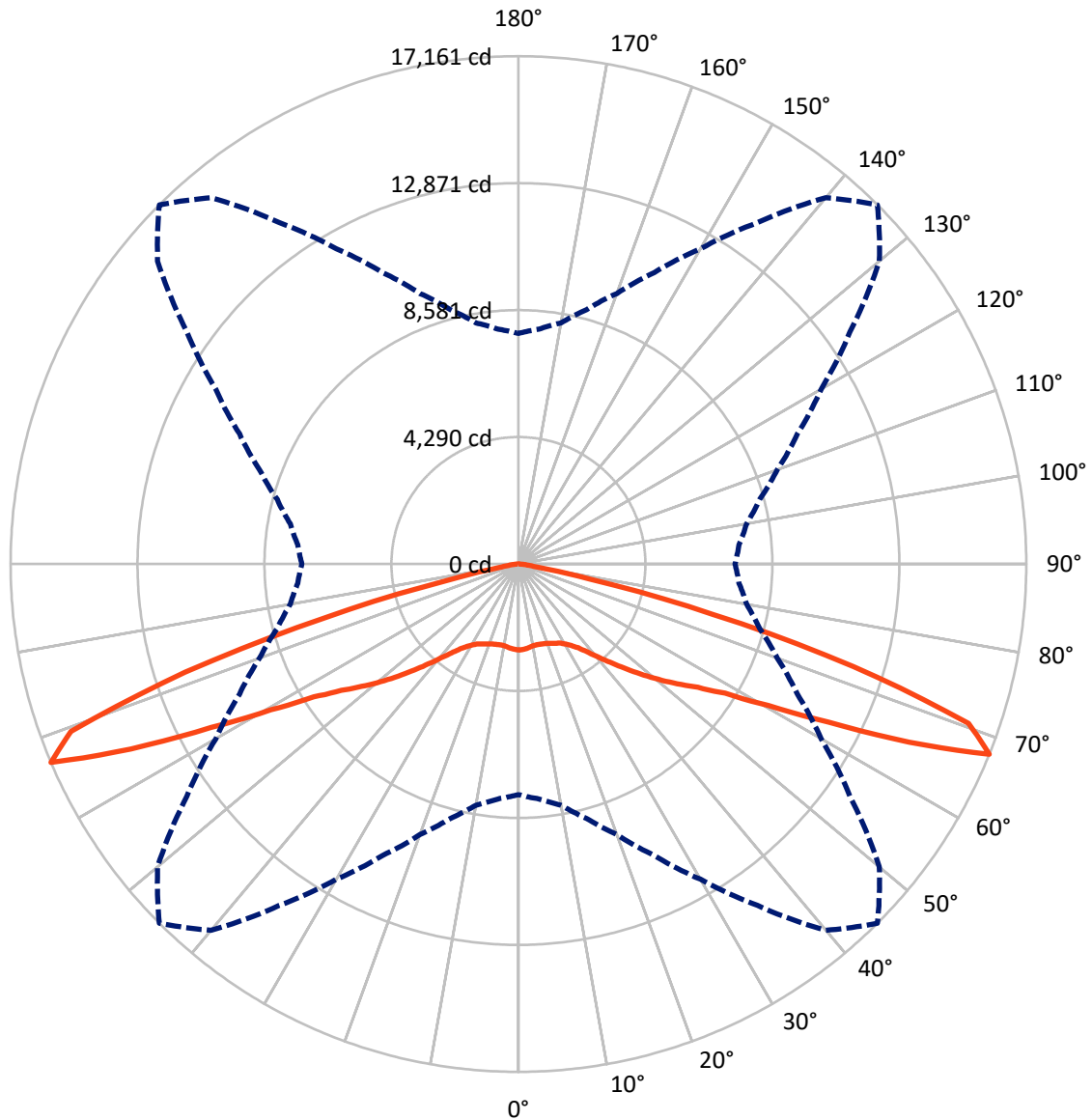
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P193345
CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193345

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14579.5	0.0	14579.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14579.5	0.0	14579.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29159.0	0.0	29159.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	0.9
10°-20°	789.2	2.7
20°-30°	1341.6	4.6
30°-40°	2193.2	7.5
40°-50°	3915.2	13.4
50°-60°	6601.1	22.6
60°-70°	10244.0	35.1
70°-80°	3599.3	12.3
80°-90°	203.4	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°	29159.0	100.0
0°-180°	29159.0	100.0



REPORT NUMBER: P193345

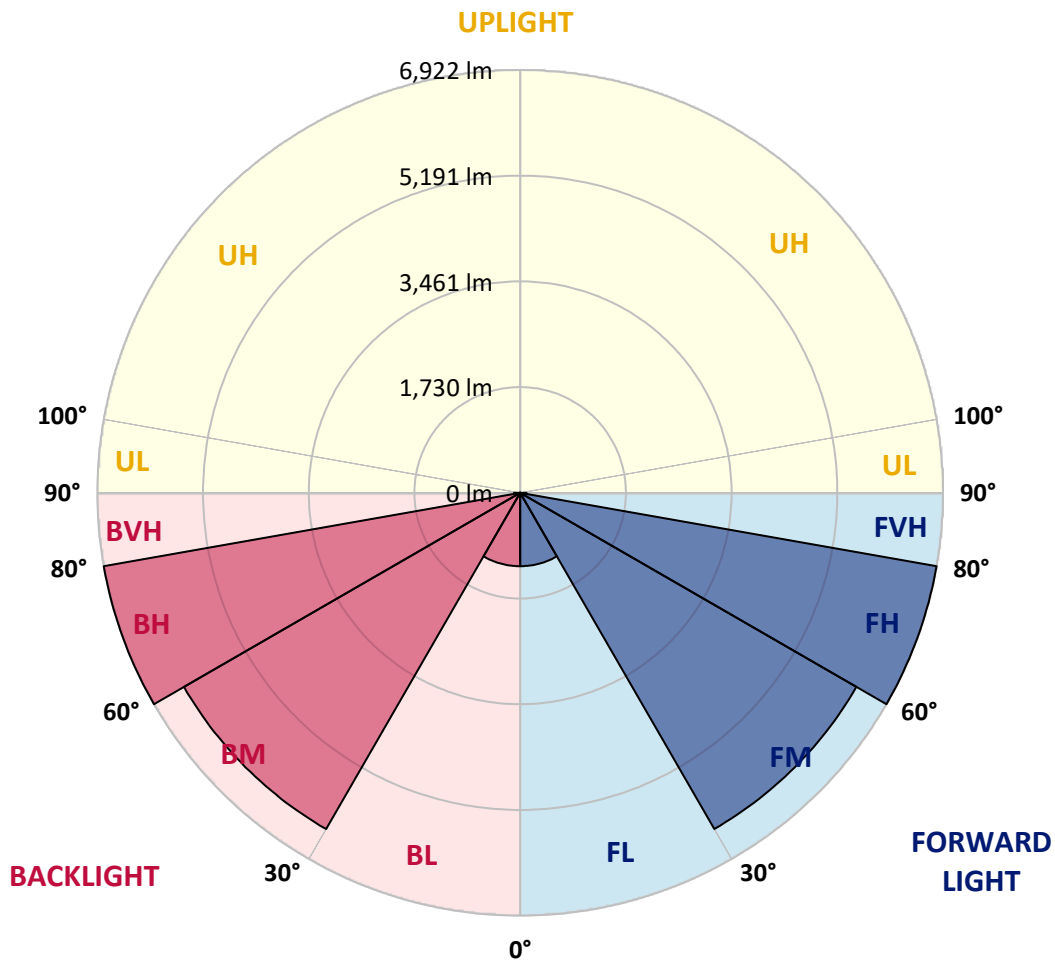
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1201.4	4.1			
FM	(30°-60°)	6354.8	21.8			
FH	(60°-80°)	6921.6	23.7			G3/7500
FVH	(80°-90°)	101.7	0.3			G2/225
BL	(0°-30°)	1201.4	4.1	B3/2500		
BM	(30°-60°)	6354.8	21.8	B4/8500		
BH	(60°-80°)	6921.6	23.7	B5		G3/7500
BVH	(80°-90°)	101.7	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





REPORT NUMBER: P193345

CATALOG NUMBER: GLEON-AF-07-LED-E1-5MQ-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2895.1	2897.8	2897.8	2897.8	2896.4	2896.4	2893.7	2896.4	2895.1	2891.1	2892.4
5°	2871.0	2873.6	2873.6	2872.3	2876.3	2875.0	2871.0	2873.6	2872.3	2869.6	2871.0
7.5°	2836.1	2840.1	2840.1	2838.8	2842.8	2841.5	2838.8	2840.1	2840.1	2836.1	2836.1
10°	2797.2	2799.9	2799.9	2798.5	2805.2	2805.2	2803.9	2807.9	2809.3	2805.2	2802.6
12.5°	2761.0	2765.0	2765.0	2770.4	2777.1	2779.8	2786.5	2791.8	2797.2	2795.9	2790.5
15°	2739.5	2742.2	2747.6	2754.3	2765.0	2774.4	2785.1	2797.2	2807.9	2810.6	2802.6
17.5°	2726.1	2730.2	2738.2	2747.6	2762.3	2778.4	2794.5	2810.6	2825.4	2830.7	2821.3
20°	2722.1	2724.8	2732.8	2748.9	2769.0	2793.2	2816.0	2834.7	2854.9	2861.6	2854.9
22.5°	2730.2	2735.5	2744.9	2763.7	2790.5	2821.3	2848.2	2873.6	2899.1	2911.2	2901.8
25°	2766.4	2771.7	2783.8	2807.9	2837.4	2869.6	2900.5	2930.0	2952.8	2964.8	2958.1
27.5°	2833.4	2840.1	2854.9	2879.0	2911.2	2946.0	2979.6	3003.7	3022.5	3026.5	3018.5
30°	2934.0	2948.7	2966.2	2993.0	3030.5	3060.0	3093.5	3115.0	3137.8	3137.8	3131.1
32.5°	3090.9	3105.6	3124.4	3149.9	3179.4	3211.6	3241.1	3259.8	3284.0	3285.3	3269.2
35°	3325.5	3332.2	3348.3	3364.4	3391.2	3419.4	3444.9	3456.9	3477.1	3478.4	3463.6
37.5°	3635.3	3636.6	3647.4	3652.7	3676.9	3707.7	3731.8	3739.9	3758.7	3756.0	3741.2
40°	3996.0	4002.7	4006.7	4014.8	4040.3	4069.8	4095.2	4099.3	4119.4	4115.3	4096.6
42.5°	4413.0	4415.7	4438.5	4450.6	4474.7	4489.5	4521.7	4525.7	4549.8	4539.1	4517.6
45°	4881.0	4905.2	4926.6	4950.8	4976.2	4993.7	5019.1	5013.8	5029.9	5013.8	5001.7
47.5°	5373.1	5390.6	5438.9	5476.4	5518.0	5532.7	5568.9	5552.8	5568.9	5546.1	5542.1
50°	5914.9	5945.7	5987.3	6030.2	6074.5	6098.6	6145.5	6125.4	6146.9	6125.4	6113.3
52.5°	6448.6	6456.6	6547.8	6610.8	6672.5	6700.7	6728.8	6719.5	6720.8	6719.5	6707.4
55°	6955.5	6974.2	7065.4	7151.2	7258.5	7337.6	7385.9	7380.5	7368.5	7356.4	7336.3
57.5°	7526.7	7545.5	7650.1	7756.0	7878.0	7990.7	8088.6	8189.1	8228.0	8238.7	8194.5
60°	8299.1	8297.7	8437.2	8565.9	8740.2	8907.9	9122.4	9341.0	9591.7	9708.4	9554.2
62.5°	9084.9	9117.1	9318.2	9546.2	9905.5	10255.5	10651.1	11040.0	11436.9	11760.0	11416.8
65°	8991.0	9114.4	9413.4	9929.7	10593.4	11381.9	12234.7	13137.2	13952.5	14513.0	13884.1
67.5°	7792.2	7967.9	8272.3	8899.8	9729.9	10867.0	12299.1	14083.9	16158.3	17161.4	15918.3
70°	5648.0	5846.5	6165.6	6778.5	7600.4	8681.2	10236.7	12379.6	15125.8	16136.9	14767.8
72.5°	2810.6	2917.9	3115.0	3505.2	4127.4	5004.4	6415.1	8474.7	10904.5	11832.5	10581.4
75°	954.7	1004.4	1037.9	1165.3	1362.4	1707.0	2408.3	3705.0	5652.1	6775.8	5571.6
77.5°	551.1	552.5	575.3	598.1	631.6	669.1	763.0	1001.7	1732.5	2460.6	1792.8
80°	356.7	355.3	374.1	391.6	414.4	433.1	438.5	464.0	535.0	634.3	567.2
82.5°	185.0	207.8	249.4	272.2	315.1	323.2	312.4	303.1	320.5	332.6	340.6
85°	101.9	88.5	132.8	171.6	190.4	193.1	193.1	182.4	189.1	185.0	201.1
87.5°	46.9	42.9	52.3	84.5	89.8	76.4	80.5	71.1	51.0	49.6	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193345

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2892.4	2893.7	2893.7	2897.8	2899.1	2901.8	2904.5	2905.8
5°	2869.6	2873.6	2871.0	2875.0	2875.0	2877.7	2877.7	2879.0
7.5°	2836.1	2840.1	2840.1	2840.1	2838.8	2842.8	2842.8	2842.8
10°	2801.2	2803.9	2802.6	2799.9	2797.2	2801.2	2799.9	2798.5
12.5°	2790.5	2783.8	2778.4	2775.7	2770.4	2771.7	2767.7	2767.7
15°	2797.2	2785.1	2775.7	2771.7	2766.4	2763.7	2761.0	2762.3
17.5°	2814.6	2799.9	2787.8	2781.1	2774.4	2770.4	2765.0	2766.4
20°	2845.5	2828.0	2810.6	2797.2	2785.1	2778.4	2774.4	2773.1
22.5°	2891.1	2865.6	2840.1	2820.0	2803.9	2794.5	2790.5	2787.8
25°	2943.4	2915.2	2885.7	2862.9	2846.8	2834.7	2826.7	2826.7
27.5°	3009.1	2986.3	2959.5	2932.6	2917.9	2905.8	2900.5	2897.8
30°	3119.0	3097.6	3076.1	3050.6	3031.9	3019.8	3010.4	3002.4
32.5°	3259.8	3242.4	3225.0	3206.2	3188.8	3172.7	3157.9	3151.2
35°	3458.3	3444.9	3432.8	3411.4	3404.6	3395.3	3387.2	3380.5
37.5°	3731.8	3726.5	3726.5	3703.7	3698.3	3694.3	3686.2	3687.6
40°	4091.2	4096.6	4089.9	4081.8	4077.8	4067.1	4067.1	4076.5
42.5°	4516.3	4520.3	4535.1	4521.7	4536.4	4523.0	4514.9	4521.7
45°	5009.8	5024.5	5054.0	5040.6	5050.0	5027.2	4999.0	5000.4
47.5°	5563.6	5577.0	5589.0	5579.7	5581.0	5543.4	5505.9	5496.5
50°	6138.8	6144.2	6150.9	6137.5	6140.2	6098.6	6055.7	6057.0
52.5°	6707.4	6732.9	6759.7	6723.5	6715.4	6668.5	6608.2	6584.0
55°	7357.7	7393.9	7363.1	7300.1	7237.1	7174.0	7094.9	7081.5
57.5°	8159.6	8097.9	8001.4	7882.0	7794.9	7706.4	7625.9	7592.4
60°	9275.3	9043.3	8869.0	8692.0	8580.7	8472.1	8366.1	8350.0
62.5°	10852.2	10451.3	10104.0	9737.9	9438.9	9205.6	9019.2	8966.9
65°	12828.8	11880.7	11058.7	10291.7	9625.3	9122.4	8806.0	8666.5
67.5°	13678.9	11807.0	10397.7	9308.8	8437.2	7828.4	7486.5	7316.2
70°	12020.2	9791.5	8258.9	7168.7	6374.8	5725.8	5416.1	5233.7
72.5°	8269.6	6228.7	4925.3	4020.1	3385.9	2842.8	2628.2	2612.2
75°	3713.1	2459.3	1694.9	1306.1	1099.6	956.1	911.8	878.3
77.5°	1039.2	768.4	685.2	641.0	598.1	548.4	529.7	533.7
80°	505.5	477.4	458.6	430.4	391.6	350.0	331.2	339.3
82.5°	335.2	331.2	343.3	323.2	266.8	226.6	190.4	174.3
85°	203.8	206.5	210.5	211.9	179.7	126.0	85.8	96.5
87.5°	80.5	92.5	100.6	104.6	97.9	60.3	48.3	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)