

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: P191694

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37499 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 333  
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

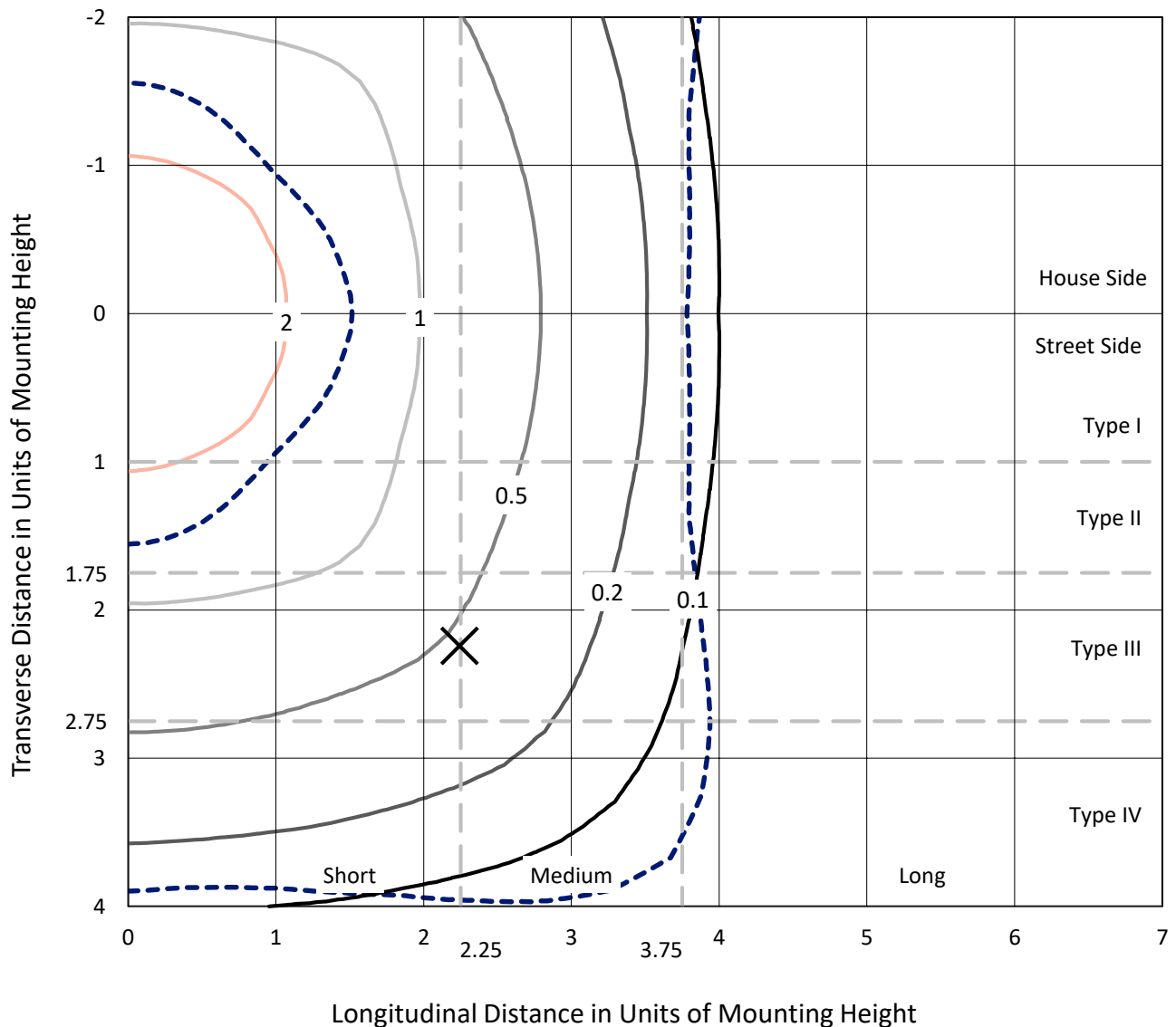


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### Iso-Footcandle Lines of Horizontal Illumination

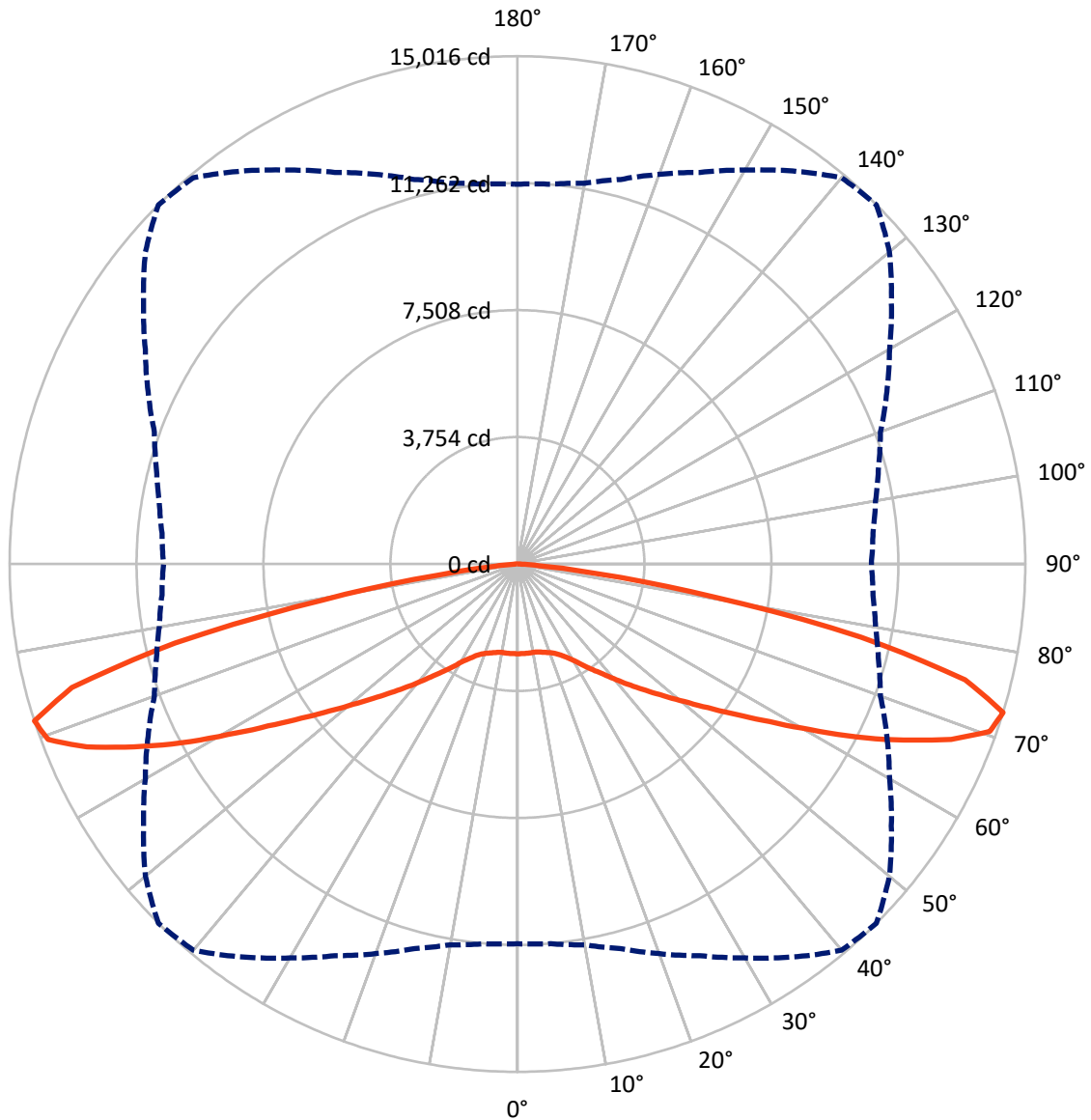
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18749.5	0.0	18749.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18749.5	0.0	18749.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37499.0	0.0	37499.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.6	0.7
10°-20°	770.1	2.1
20°-30°	1407.3	3.8
30°-40°	2426.5	6.5
40°-50°	4148.0	11.1
50°-60°	6723.4	17.9
60°-70°	11153.9	29.7
70°-80°	9824.0	26.2
80°-90°	792.1	2.1
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°	37499.0	100.0
0°-180°	37499.0	100.0



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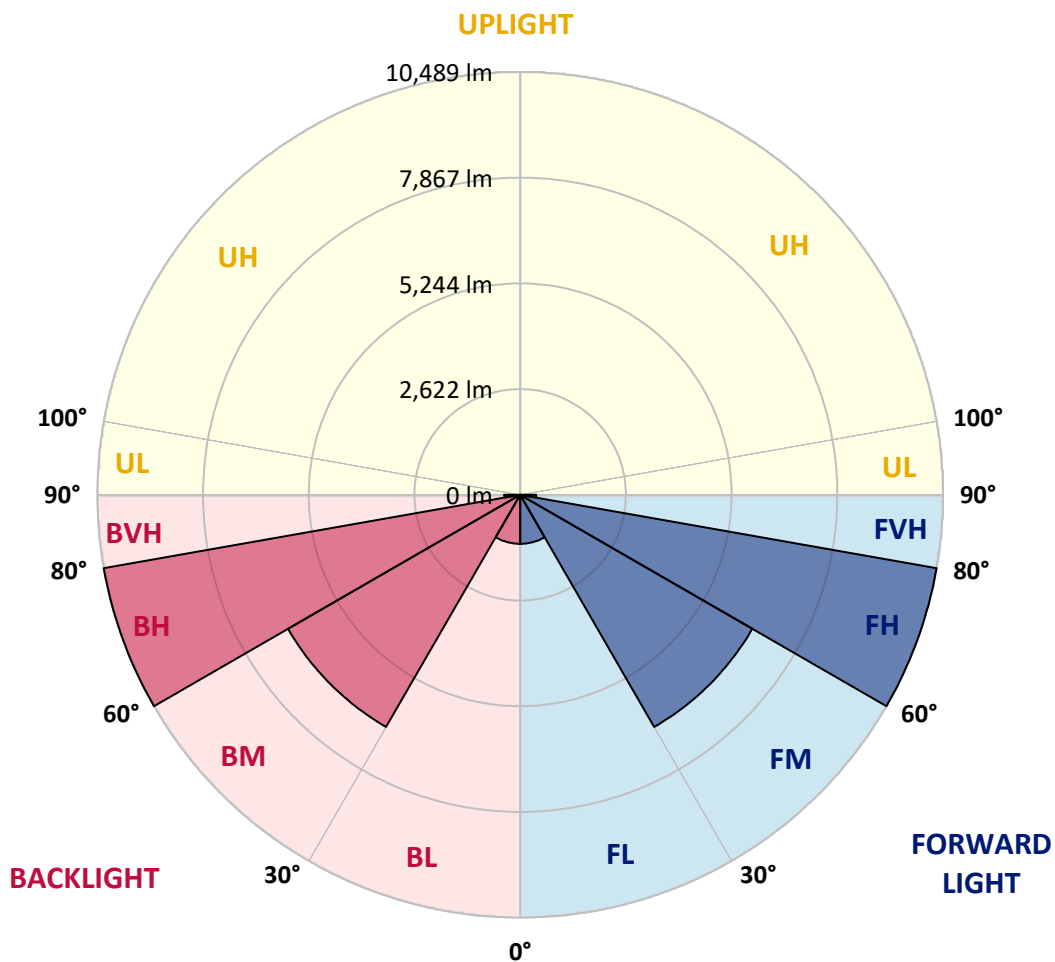
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.5	3.2			
FM	(30°-60°)	6649.0	17.7			
FH	(60°-80°)	10489.0	28.0			G4/12000
FVH	(80°-90°)	396.0	1.1			G3/500
BL	(0°-30°)	1215.5	3.2	B3/2500		
BM	(30°-60°)	6649.0	17.7	B4/8500		
BH	(60°-80°)	10489.0	28.0	B5		G4/12000
BVH	(80°-90°)	396.0	1.1			G3/500
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°	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5
2.5°	2655.5	2657.2	2659.0	2657.2	2657.2	2655.5	2653.8	2655.5	2653.8	2650.4	2652.1
5°	2664.1	2667.6	2667.6	2664.1	2665.8	2664.1	2660.7	2662.4	2659.0	2653.8	2653.8
7.5°	2674.4	2676.2	2676.2	2672.7	2674.4	2671.0	2667.6	2665.8	2662.4	2655.5	2650.4
10°	2689.9	2691.6	2689.9	2686.5	2686.5	2681.3	2672.7	2669.3	2662.4	2652.1	2646.9
12.5°	2707.1	2708.8	2707.1	2703.7	2701.9	2693.3	2686.5	2681.3	2676.2	2667.6	2659.0
15°	2731.2	2734.6	2731.2	2724.3	2719.1	2712.3	2708.8	2710.5	2712.3	2705.4	2696.8
17.5°	2775.9	2777.6	2772.5	2757.0	2750.1	2743.2	2743.2	2746.7	2751.8	2748.4	2739.8
20°	2858.5	2853.3	2841.3	2822.3	2813.7	2801.7	2800.0	2801.7	2801.7	2800.0	2793.1
22.5°	2961.7	2958.2	2942.7	2918.7	2906.6	2899.7	2889.4	2880.8	2879.1	2873.9	2867.1
25°	3085.5	3083.8	3064.8	3044.2	3035.6	3027.0	3018.4	3006.4	2996.1	2984.0	2977.1
27.5°	3243.7	3236.8	3209.3	3199.0	3187.0	3181.8	3169.8	3156.0	3147.4	3131.9	3123.3
30°	3417.4	3417.4	3395.1	3391.6	3391.6	3379.6	3365.8	3341.7	3326.3	3310.8	3305.6
32.5°	3591.1	3592.9	3570.5	3577.4	3582.5	3591.1	3594.6	3586.0	3575.7	3573.9	3563.6
35°	3842.2	3835.4	3813.0	3818.2	3816.4	3814.7	3814.7	3833.6	3837.1	3840.5	3819.9
37.5°	4153.5	4153.5	4131.2	4131.2	4120.9	4110.5	4096.8	4108.8	4127.7	4132.9	4119.1
40°	4509.6	4521.6	4494.1	4492.4	4495.8	4463.1	4447.6	4466.6	4478.6	4499.2	4483.8
42.5°	4929.2	4920.6	4893.1	4889.7	4870.7	4860.4	4846.7	4862.1	4881.1	4894.8	4900.0
45°	5331.7	5324.8	5293.8	5293.8	5274.9	5266.3	5273.2	5299.0	5307.6	5326.5	5345.4
47.5°	5729.0	5720.4	5699.7	5708.3	5710.0	5725.5	5747.9	5772.0	5796.0	5821.8	5830.4
50°	6134.9	6136.6	6114.2	6134.9	6160.6	6203.6	6263.8	6303.4	6353.3	6386.0	6396.3
52.5°	6504.6	6511.5	6535.6	6583.7	6635.3	6719.6	6822.8	6919.1	7001.7	7056.7	7053.3
55°	6948.4	6958.7	7017.2	7099.7	7184.0	7311.3	7464.3	7634.6	7772.2	7851.3	7801.4
57.5°	7515.9	7538.3	7603.6	7715.4	7841.0	8006.1	8215.9	8472.2	8685.4	8792.1	8711.2
60°	8295.0	8308.8	8387.9	8511.7	8663.1	8867.8	9148.1	9492.1	9793.1	9934.1	9841.2
62.5°	9321.8	9347.6	9411.2	9536.8	9691.6	9923.8	10266.0	10696.0	11070.9	11267.0	11057.2
65°	10548.1	10630.6	10684.0	10811.2	10955.7	11201.7	11559.4	12020.3	12422.8	12551.8	12309.3
67.5°	11762.3	11834.6	11927.4	12073.6	12219.8	12496.7	12828.7	13275.8	13717.9	13834.8	13458.1
70°	12293.8	12335.1	12479.5	12679.0	12959.4	13286.2	13669.7	14171.9	14718.8	14815.1	14337.0
72.5°	11229.2	11270.4	11432.1	11770.9	12259.4	12778.8	13447.8	14185.7	14908.0	15016.4	14357.7
75°	8492.8	8425.7	8664.8	9113.7	9772.4	10496.5	11432.1	12489.8	13533.8	13669.7	12883.7
77.5°	4389.2	4380.6	4561.2	5118.4	5904.4	6728.2	7758.4	8953.8	9975.4	10388.1	9748.3
80°	1236.6	1250.4	1336.4	1613.3	2072.5	2667.6	3472.5	4592.1	5428.0	5854.5	5496.8
82.5°	485.0	522.8	555.5	607.1	667.3	755.0	1007.9	1499.7	2012.3	2404.4	1969.3
85°	173.7	185.7	263.1	311.3	316.5	333.7	380.1	443.7	534.9	638.1	524.6
87.5°	65.4	72.2	84.3	139.3	137.6	125.6	153.1	159.9	120.4	110.1	135.9
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°	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5	2655.5
2.5°	2648.6	2650.4	2650.4	2652.1	2653.8	2653.8	2657.2	2657.2
5°	2650.4	2650.4	2646.9	2648.6	2646.9	2646.9	2648.6	2648.6
7.5°	2646.9	2645.2	2641.8	2640.0	2636.6	2636.6	2636.6	2636.6
10°	2641.8	2640.0	2636.6	2634.9	2633.2	2633.2	2633.2	2633.2
12.5°	2655.5	2650.4	2646.9	2645.2	2645.2	2645.2	2645.2	2645.2
15°	2691.6	2679.6	2671.0	2671.0	2672.7	2676.2	2676.2	2679.6
17.5°	2736.3	2722.6	2714.0	2707.1	2710.5	2715.7	2719.1	2722.6
20°	2789.7	2782.8	2770.7	2763.9	2763.9	2770.7	2774.2	2775.9
22.5°	2863.6	2858.5	2853.3	2844.7	2844.7	2848.1	2855.0	2855.0
25°	2973.7	2970.3	2966.8	2959.9	2958.2	2958.2	2961.7	2965.1
27.5°	3111.3	3113.0	3109.6	3107.8	3102.7	3101.0	3106.1	3104.4
30°	3295.3	3303.9	3312.5	3305.6	3297.0	3291.9	3286.7	3279.8
32.5°	3544.7	3534.4	3527.5	3515.5	3500.0	3486.2	3475.9	3463.9
35°	3780.3	3763.1	3756.2	3766.6	3764.8	3756.2	3744.2	3733.9
37.5°	4069.3	4065.8	4069.3	4088.2	4084.7	4093.3	4069.3	4067.5
40°	4433.9	4437.3	4461.4	4483.8	4495.8	4507.8	4494.1	4480.3
42.5°	4857.0	4855.3	4863.9	4894.8	4915.4	4929.2	4900.0	4896.5
45°	5304.1	5292.1	5299.0	5324.8	5345.4	5360.9	5328.2	5328.2
47.5°	5796.0	5775.4	5753.0	5782.3	5794.3	5804.6	5778.8	5770.2
50°	6344.7	6301.7	6253.5	6265.6	6265.6	6262.1	6229.4	6227.7
52.5°	6974.2	6895.0	6807.3	6774.7	6755.7	6735.1	6678.3	6650.8
55°	7698.2	7579.6	7442.0	7357.7	7313.0	7256.2	7161.6	7135.8
57.5°	8544.4	8358.7	8121.3	8018.1	7918.4	7825.5	7720.6	7691.4
60°	9547.1	9273.7	8958.9	8768.0	8659.7	8570.2	8461.9	8456.7
62.5°	10665.0	10233.4	9877.3	9705.3	9626.2	9547.1	9443.9	9457.7
65°	11801.9	11351.3	11017.6	10878.3	10804.4	10739.0	10635.8	10651.3
67.5°	12923.3	12508.8	12142.4	11999.7	11917.1	11834.6	11741.7	11757.2
70°	13728.2	13213.9	12801.1	12484.7	12286.9	12063.3	11918.8	11882.7
72.5°	13497.7	12704.8	12049.6	11421.8	11053.7	10754.5	10551.5	10463.8
75°	11681.5	10598.0	9755.2	8984.7	8551.3	8198.7	7942.5	7782.5
77.5°	8675.1	7457.4	6461.6	5574.2	4872.5	4401.2	4069.3	3854.3
80°	4748.6	3611.8	2640.0	1855.8	1363.9	1133.4	1001.0	937.3
82.5°	1479.1	954.5	703.4	607.1	564.1	540.0	500.5	436.9
85°	471.3	412.8	383.5	366.3	349.1	304.4	209.8	190.9
87.5°	182.3	187.5	185.7	175.4	178.9	129.0	103.2	91.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)