

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: P192544

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192544
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-06-LED-E1-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 29224.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 249
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



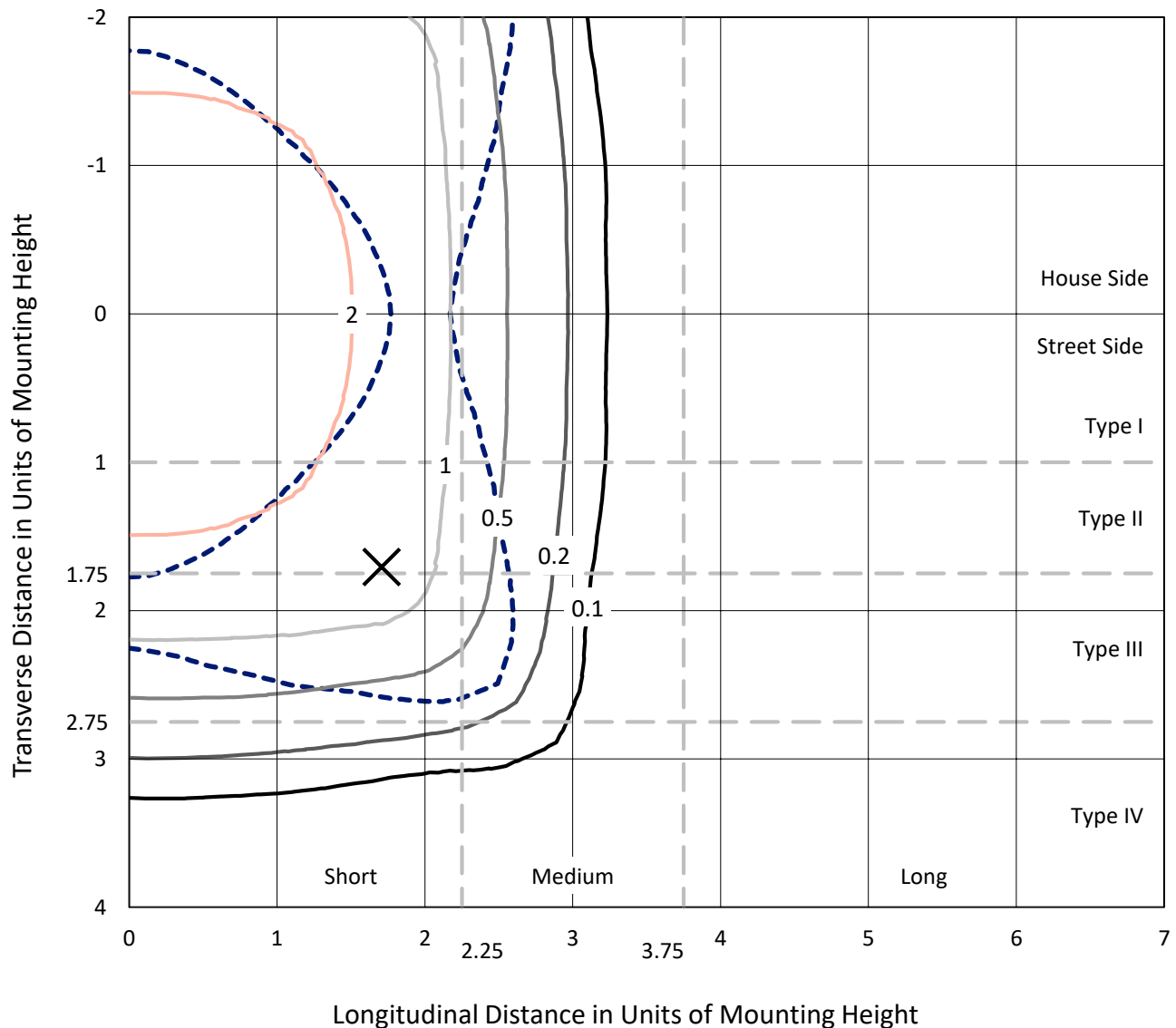
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

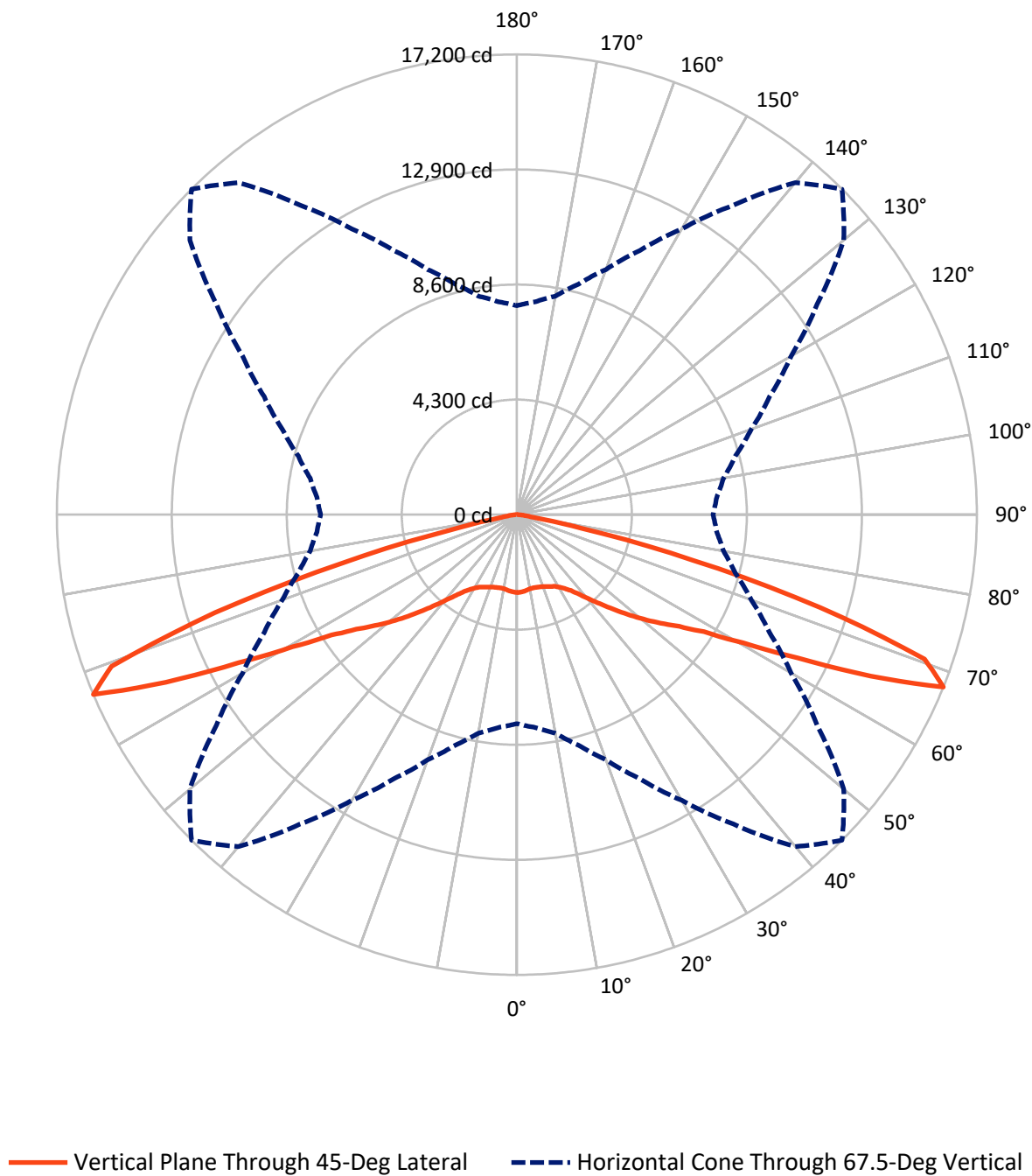


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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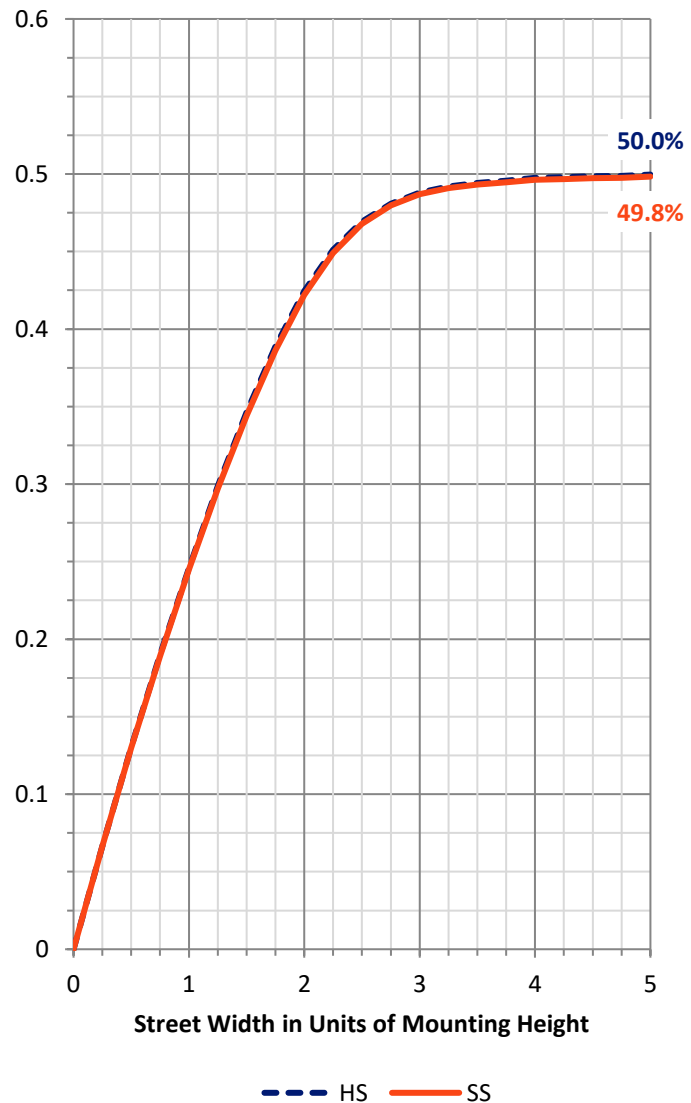
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14612.3	0.0	14612.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14612.3	0.0	14612.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	29224.7	0.0	29224.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	0.9
10°-20°	791.0	2.7
20°-30°	1344.7	4.6
30°-40°	2198.1	7.5
40°-50°	3924.0	13.4
50°-60°	6616.0	22.6
60°-70°	10267.0	35.1
70°-80°	3607.4	12.3
80°-90°	203.9	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°	29224.7	100.0
0°-180°	29224.7	100.0

Coefficient of Utilization



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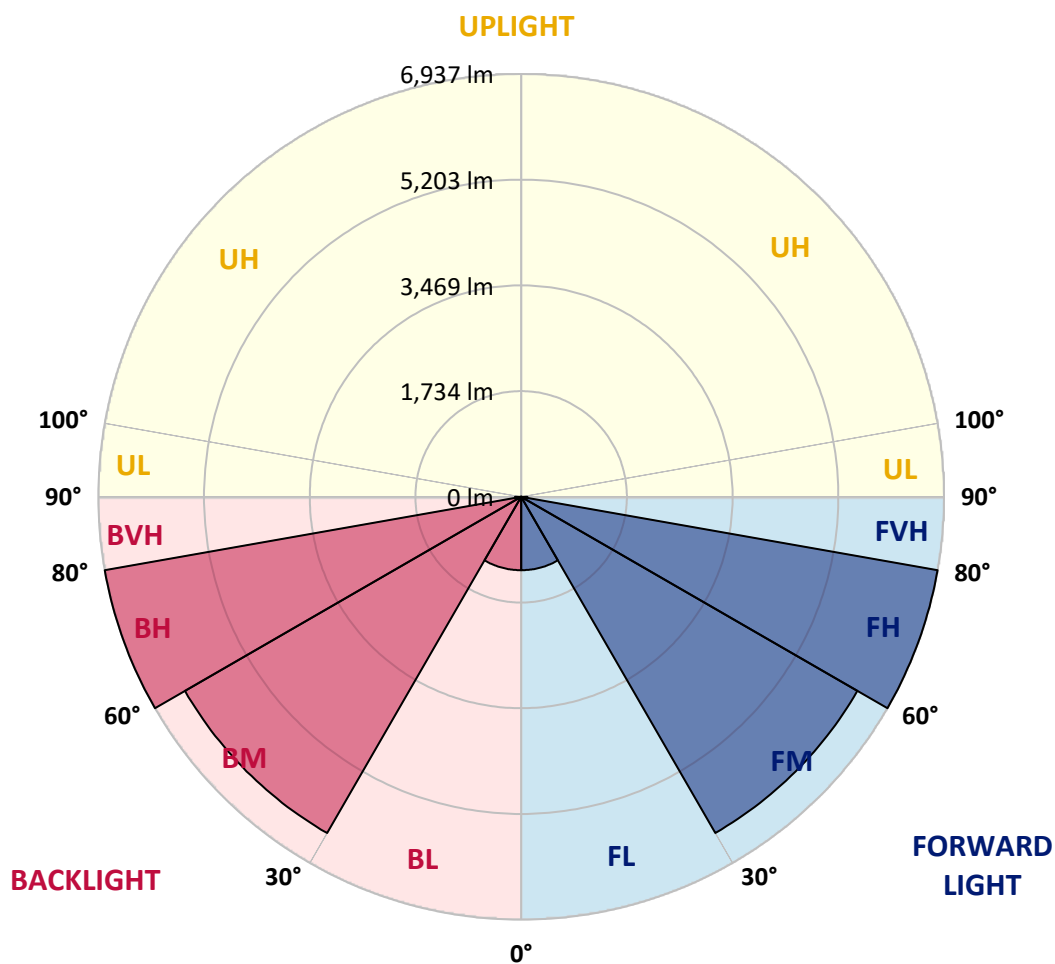
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1204.1	4.1			
FM	(30°-60°)	6369.1	21.8			
FH	(60°-80°)	6937.2	23.7			G3/7500
FVH	(80°-90°)	101.9	0.3			G2/225
BL	(0°-30°)	1204.1	4.1	B3/2500		
BM	(30°-60°)	6369.1	21.8	B4/8500		
BH	(60°-80°)	6937.2	23.7	B5		G3/7500
BVH	(80°-90°)	101.9	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°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2901.6	2904.3	2904.3	2904.3	2902.9	2902.9	2900.3	2902.9	2901.6	2897.5	2898.9
5°	2877.5	2880.1	2880.1	2878.8	2882.8	2881.5	2877.5	2880.1	2878.8	2876.0	2877.5
7.5°	2842.5	2846.5	2846.5	2845.1	2849.2	2847.9	2845.1	2846.5	2846.5	2842.5	2842.5
10°	2803.5	2806.3	2806.3	2804.8	2811.6	2811.6	2810.2	2814.3	2815.6	2811.6	2808.8
12.5°	2767.2	2771.3	2771.3	2776.6	2783.4	2786.0	2792.7	2798.1	2803.5	2802.2	2796.8
15°	2745.6	2748.4	2753.8	2760.6	2771.3	2780.6	2791.3	2803.5	2814.3	2816.9	2808.8
17.5°	2732.2	2736.3	2744.4	2753.8	2768.5	2784.7	2800.9	2816.9	2831.7	2837.1	2827.7
20°	2728.2	2730.9	2739.0	2755.1	2775.3	2799.4	2822.2	2841.2	2861.3	2868.0	2861.3
22.5°	2736.3	2741.7	2751.0	2769.9	2796.8	2827.7	2854.6	2880.1	2905.6	2917.8	2908.4
25°	2772.6	2777.9	2790.1	2814.3	2843.8	2876.0	2907.0	2936.6	2959.4	2971.6	2964.8
27.5°	2839.7	2846.5	2861.3	2885.4	2917.8	2952.7	2986.3	3010.4	3029.3	3033.4	3025.3
30°	2940.6	2955.4	2972.8	2999.7	3037.3	3066.9	3100.6	3122.0	3144.9	3144.9	3138.2
32.5°	3097.8	3112.6	3131.5	3156.9	3186.5	3218.8	3248.4	3267.2	3291.3	3292.7	3276.5
35°	3333.1	3339.7	3355.9	3372.0	3398.8	3427.1	3452.6	3464.7	3485.0	3486.3	3471.5
37.5°	3643.5	3644.8	3655.6	3661.0	3685.1	3716.0	3740.3	3748.3	3767.2	3764.4	3749.7
40°	4005.0	4011.7	4015.8	4023.8	4049.3	4078.8	4104.5	4108.4	4128.7	4124.6	4105.8
42.5°	4423.0	4425.6	4448.5	4460.6	4484.8	4499.7	4531.8	4535.9	4560.1	4549.3	4527.8
45°	4892.0	4916.2	4937.8	4961.9	4987.4	5004.9	5030.4	5025.1	5041.2	5025.1	5013.0
47.5°	5385.3	5402.8	5451.1	5488.7	5530.3	5545.1	5581.5	5565.3	5581.5	5558.6	5554.6
50°	5928.2	5959.1	6000.7	6043.7	6088.2	6112.3	6159.4	6139.2	6160.7	6139.2	6127.2
52.5°	6463.1	6471.2	6562.5	6625.7	6687.5	6715.7	6744.0	6734.6	6736.0	6734.6	6722.5
55°	6971.1	6990.0	7081.3	7167.3	7274.8	7354.1	7402.6	7397.2	7385.1	7373.0	7352.8
57.5°	7543.7	7562.5	7667.3	7773.5	7895.7	8008.7	8106.8	8207.5	8246.6	8257.3	8212.9
60°	8317.8	8316.4	8456.2	8585.3	8760.0	8927.9	9143.0	9362.0	9613.4	9730.3	9575.7
62.5°	9105.3	9137.6	9339.2	9567.7	9927.9	10278.6	10675.0	11064.8	11462.6	11786.6	11442.5
65°	9011.2	9134.9	9434.6	9952.0	10617.3	11407.5	12262.2	13166.8	13983.9	14545.6	13915.4
67.5°	7809.8	7985.8	8290.9	8919.8	9751.8	10891.4	12326.8	14115.6	16194.7	17200.0	15954.1
70°	5660.7	5859.7	6179.4	6793.7	7617.5	8700.8	10259.8	12407.5	15159.8	16173.2	14801.1
72.5°	2816.9	2924.5	3122.0	3513.1	4136.7	5015.6	6429.5	8493.9	10929.1	11859.1	10605.1
75°	956.9	1006.6	1040.2	1167.9	1365.4	1710.9	2413.7	3713.4	5664.8	6791.0	5584.1
77.5°	552.5	553.7	576.6	599.4	633.0	670.7	764.7	1004.0	1736.3	2466.2	1796.9
80°	357.5	356.1	375.0	392.5	415.3	434.1	439.4	465.0	536.3	635.7	568.4
82.5°	185.4	208.3	249.9	272.8	315.9	323.9	313.1	303.7	321.2	333.3	341.3
85°	102.1	88.7	133.1	172.0	190.8	193.5	193.5	182.8	189.4	185.4	201.6
87.5°	47.1	43.0	52.5	84.6	90.0	76.6	80.7	71.2	51.1	49.7	56.5
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°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2898.9	2900.3	2900.3	2904.3	2905.6	2908.4	2911.0	2912.5
5°	2876.0	2880.1	2877.5	2881.5	2881.5	2884.1	2884.1	2885.4
7.5°	2842.5	2846.5	2846.5	2846.5	2845.1	2849.2	2849.2	2849.2
10°	2807.5	2810.2	2808.8	2806.3	2803.5	2807.5	2806.3	2804.8
12.5°	2796.8	2790.1	2784.7	2782.0	2776.6	2777.9	2774.0	2774.0
15°	2803.5	2791.3	2782.0	2777.9	2772.6	2769.9	2767.2	2768.5
17.5°	2821.0	2806.3	2794.1	2787.4	2780.6	2776.6	2771.3	2772.6
20°	2851.8	2834.4	2816.9	2803.5	2791.3	2784.7	2780.6	2779.3
22.5°	2897.5	2872.0	2846.5	2826.3	2810.2	2800.9	2796.8	2794.1
25°	2950.0	2921.8	2892.2	2869.3	2853.2	2841.2	2833.1	2833.1
27.5°	3015.9	2993.0	2966.2	2939.3	2924.5	2912.5	2907.0	2904.3
30°	3126.0	3104.6	3083.1	3057.5	3038.7	3026.6	3017.2	3009.1
32.5°	3267.2	3249.7	3232.2	3213.5	3196.0	3179.8	3165.0	3158.3
35°	3466.0	3452.6	3440.6	3419.0	3412.2	3402.9	3394.8	3388.1
37.5°	3740.3	3734.9	3734.9	3712.0	3706.6	3702.6	3694.5	3695.9
40°	4100.4	4105.8	4099.1	4091.0	4087.0	4076.3	4076.3	4085.6
42.5°	4526.5	4530.4	4545.3	4531.8	4546.6	4533.1	4525.1	4531.8
45°	5021.0	5035.9	5065.4	5051.9	5061.3	5038.5	5010.3	5011.6
47.5°	5576.0	5589.4	5601.6	5592.2	5593.5	5556.0	5518.2	5508.9
50°	6152.6	6158.1	6164.7	6151.3	6154.0	6112.3	6069.4	6070.7
52.5°	6722.5	6748.1	6774.9	6738.6	6730.6	6683.5	6623.1	6598.8
55°	7374.4	7410.6	7379.7	7316.5	7253.4	7190.2	7110.9	7097.5
57.5°	8177.9	8116.3	8019.4	7899.8	7812.5	7723.7	7643.1	7609.5
60°	9296.3	9063.7	8889.0	8711.6	8600.1	8491.2	8385.0	8368.8
62.5°	10876.6	10474.8	10126.7	9759.8	9460.1	9226.3	9039.4	8987.0
65°	12857.6	11907.5	11083.6	10314.8	9646.9	9143.0	8825.8	8686.0
67.5°	13709.8	11833.6	10421.0	9329.7	8456.2	7846.0	7503.4	7332.6
70°	12047.3	9813.5	8277.5	7184.8	6389.2	5738.8	5428.2	5245.4
72.5°	8288.2	6242.7	4936.4	4029.2	3393.5	2849.2	2634.1	2618.1
75°	3721.5	2464.8	1698.8	1309.0	1102.1	958.2	913.9	880.3
77.5°	1041.6	770.1	686.8	642.5	599.4	549.7	530.9	535.0
80°	506.6	478.4	459.7	431.5	392.5	350.7	331.9	340.1
82.5°	336.0	331.9	344.0	323.9	267.4	227.2	190.8	174.7
85°	204.4	206.9	211.0	212.4	180.1	126.3	86.0	96.8
87.5°	80.7	92.8	100.8	104.8	98.2	60.5	48.4	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)