

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: P193192

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23228.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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



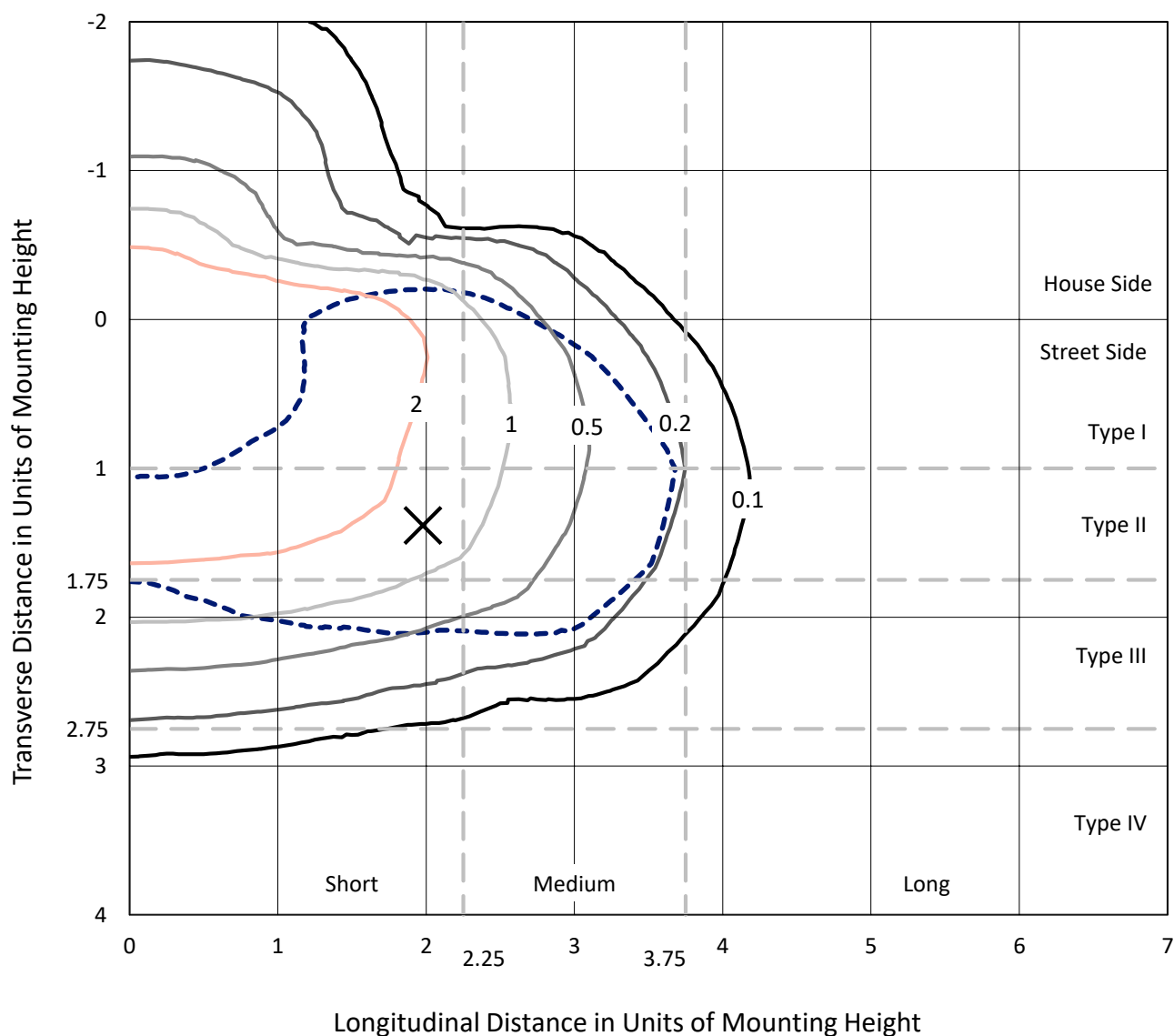
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

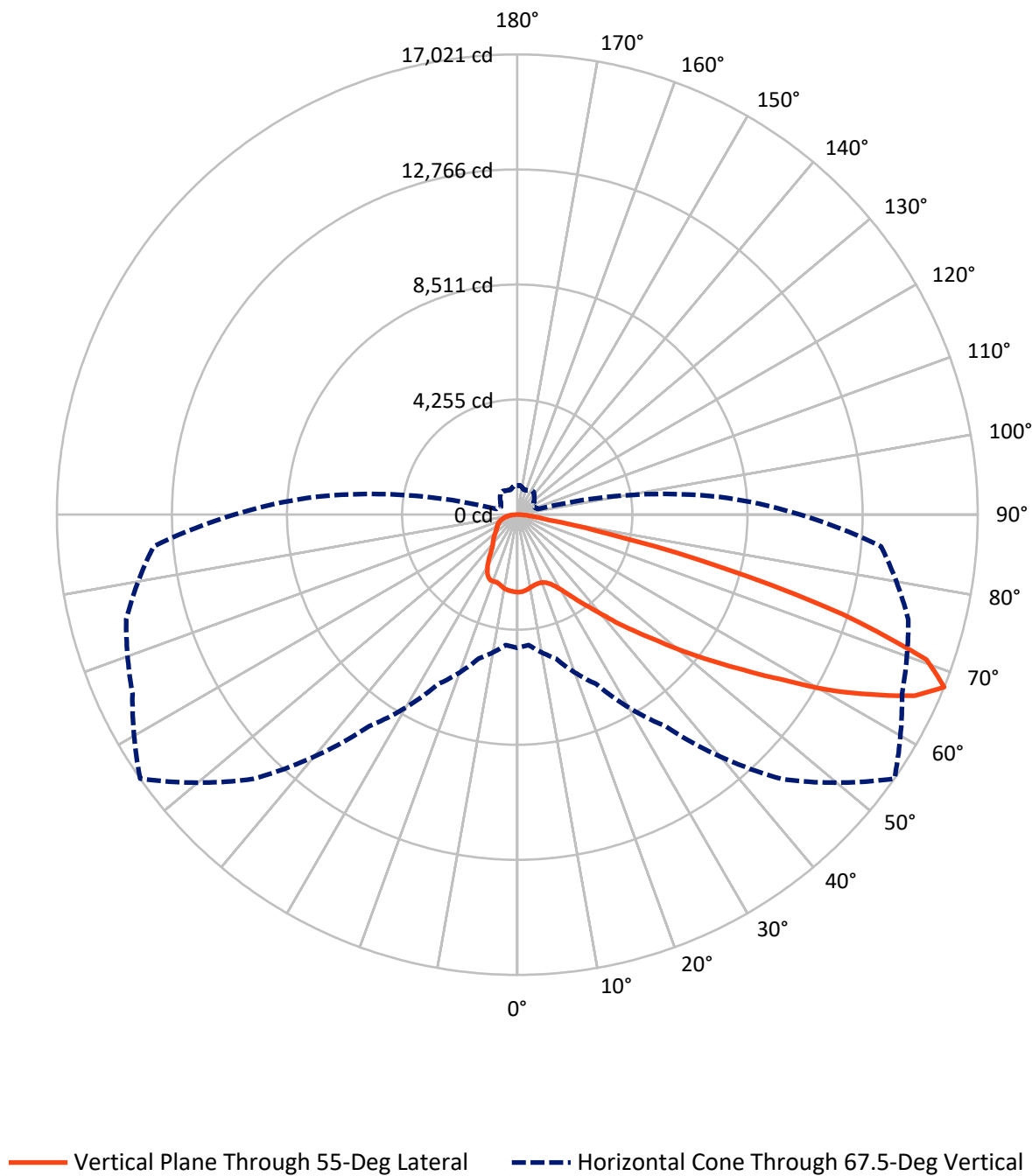


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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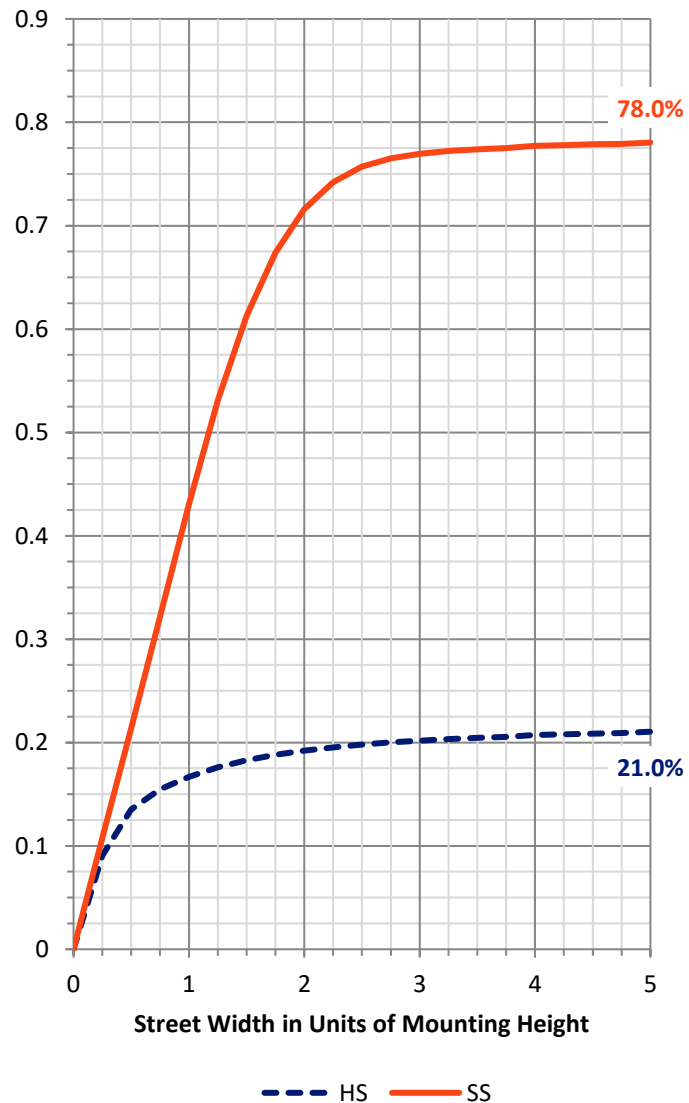
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5017.9	0.0	5017.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18210.7	0.0	18210.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	23228.5	0.0	23228.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	1.2
10°-20°	757.2	3.3
20°-30°	1268.4	5.5
30°-40°	2085.8	9.0
40°-50°	3511.0	15.1
50°-60°	5526.0	23.8
60°-70°	6594.7	28.4
70°-80°	2831.9	12.2
80°-90°	386.1	1.7
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°	23228.5	100.0
0°-180°	23228.5	100.0

Coefficient of Utilization



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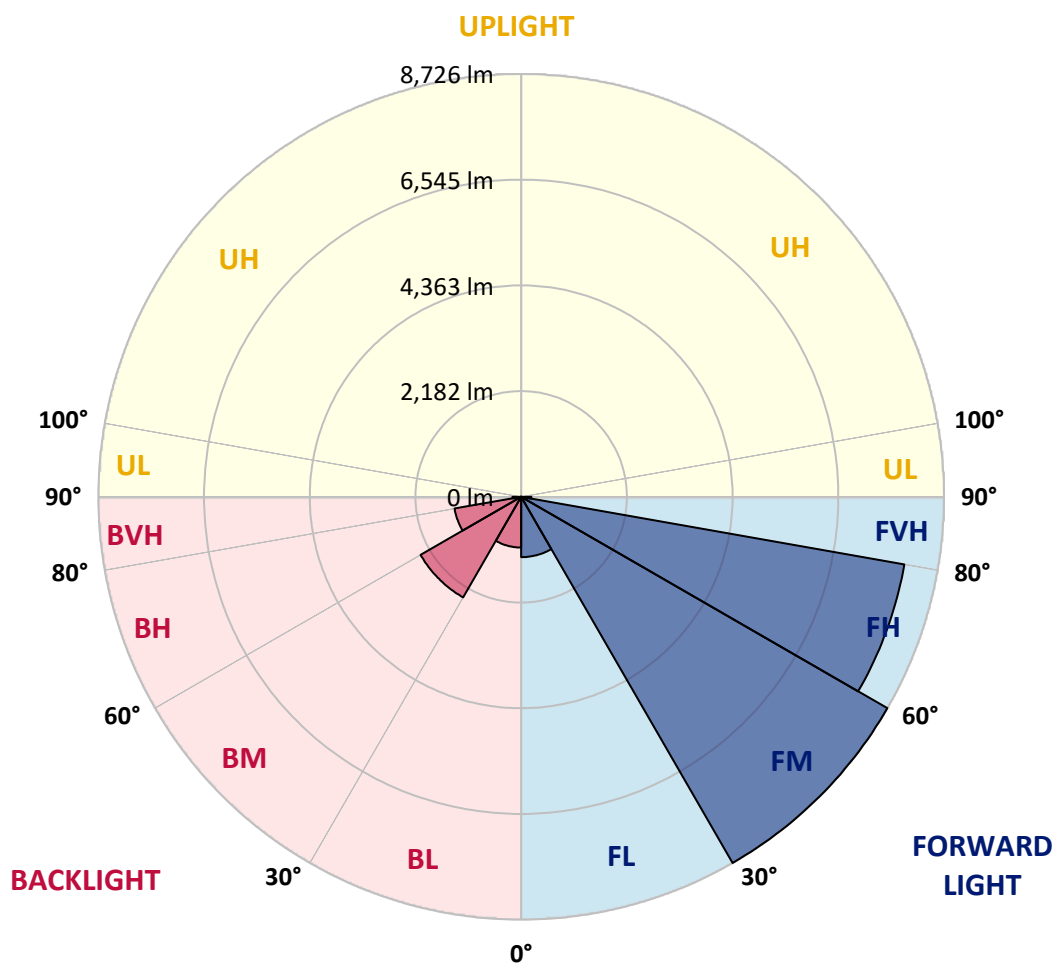
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.1	5.4			
FM	(30°-60°)	8726.3	37.6			
FH	(60°-80°)	8030.2	34.6			G4/12000
FVH	(80°-90°)	209.0	0.9			G2/225
BL	(0°-30°)	1047.8	4.5	B3/2500		
BM	(30°-60°)	2396.5	10.3	B2/2500		
BH	(60°-80°)	1396.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	177.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3
2.5°	2839.6	2840.7	2843.0	2852.0	2859.9	2857.5	2858.8	2854.2	2853.1	2846.4	2853.1
5°	2803.7	2807.1	2808.2	2822.8	2831.8	2834.0	2830.7	2825.0	2818.4	2811.6	2814.9
7.5°	2721.8	2730.8	2731.9	2752.1	2766.8	2785.8	2786.8	2788.1	2784.7	2780.2	2786.8
10°	2670.2	2672.5	2671.4	2685.9	2697.2	2718.5	2730.8	2752.1	2761.1	2763.3	2767.9
12.5°	2666.9	2664.7	2661.2	2661.2	2657.8	2666.9	2689.3	2719.6	2740.9	2747.7	2753.3
15°	2702.7	2701.7	2690.4	2673.6	2652.3	2645.6	2664.7	2698.2	2726.3	2740.9	2746.6
17.5°	2783.6	2776.9	2758.9	2720.8	2674.6	2656.7	2659.1	2687.0	2719.6	2738.7	2744.3
20°	2931.7	2931.7	2893.5	2821.7	2739.7	2697.2	2677.0	2693.8	2725.3	2751.0	2758.9
22.5°	3187.4	3189.8	3125.8	3007.9	2869.9	2779.0	2728.5	2725.3	2762.2	2791.3	2800.5
25°	3549.9	3540.9	3451.1	3282.8	3073.0	2922.6	2835.2	2814.9	2846.4	2878.9	2890.1
27.5°	3971.7	3939.2	3832.6	3629.5	3358.0	3138.0	3003.4	2970.9	3001.3	3038.3	3049.4
30°	4389.1	4355.4	4228.7	4006.4	3704.7	3426.5	3233.4	3180.7	3223.3	3276.1	3282.8
32.5°	4806.5	4806.5	4665.1	4405.9	4077.1	3770.9	3539.8	3476.9	3547.6	3611.6	3626.1
35°	5305.7	5308.0	5171.0	4859.2	4505.8	4181.5	3926.8	3880.8	3987.4	4032.3	4067.0
37.5°	5919.3	5931.6	5755.6	5378.7	4991.5	4650.5	4347.5	4284.7	4391.3	4513.6	4625.8
40°	6582.5	6598.1	6404.1	5939.6	5552.5	5195.8	4868.1	4754.9	4932.1	5165.4	5310.2
42.5°	7215.3	7296.0	7108.6	6630.7	6214.4	5845.4	5513.2	5348.3	5570.5	5922.7	6048.4
45°	8129.7	8188.0	7861.5	7428.4	7036.9	6624.0	6184.2	6010.3	6321.0	6765.4	6791.1
47.5°	8738.9	8695.1	8529.0	8259.8	8011.9	7625.9	6963.9	6773.2	7186.1	7708.9	7564.1
50°	9063.0	9076.6	9054.1	9069.8	9078.8	8836.5	7919.8	7658.4	8151.0	8782.6	8449.3
52.5°	9366.0	9276.2	9350.3	9718.3	10162.6	10072.8	8960.0	8687.2	9185.4	9974.1	9385.1
55°	9359.2	9222.3	9463.6	10113.2	11077.0	11180.2	10127.8	9813.6	10279.3	11251.9	10376.9
57.5°	9028.3	9035.0	9406.3	10256.8	11714.2	12221.4	11483.1	11011.9	11439.3	12546.7	11282.3
60°	8572.8	8634.5	9169.7	10233.2	12224.7	13075.2	13145.8	12303.2	12575.8	13723.6	12031.7
62.5°	7837.9	7902.9	8641.2	9988.7	12147.3	13897.6	14649.3	13768.6	13764.1	14437.2	12251.7
65°	6678.9	6659.9	7435.1	9074.3	11497.7	14505.7	16142.6	15035.1	14659.4	14448.5	11809.7
67.5°	4925.3	4840.0	5505.3	6911.2	9556.7	13824.6	17021.1	15694.9	14964.4	13498.1	10458.8
70°	2555.8	2470.6	3009.1	4035.6	6285.1	10789.8	16048.3	15353.8	14290.2	11314.8	8193.6
72.5°	1092.8	1078.2	1297.0	1770.4	3040.4	6223.4	12583.7	13289.4	12261.7	8430.3	5633.3
75°	734.9	730.4	812.4	964.9	1367.7	2525.5	7875.0	9433.3	8971.1	5227.2	3168.4
77.5°	576.7	571.1	619.3	693.4	886.3	996.3	3494.8	5064.5	4687.4	2275.4	1386.7
80°	451.0	446.6	476.8	517.3	637.3	628.2	1150.0	2015.1	1559.4	871.8	674.2
82.5°	355.6	355.6	380.3	381.5	452.2	428.7	600.3	887.5	778.6	508.3	412.9
85°	325.4	325.4	351.2	284.9	295.1	270.4	372.5	526.2	493.7	208.6	179.5
87.5°	163.8	159.3	295.1	252.4	160.4	143.5	181.8	254.7	273.8	115.6	89.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3	2864.3
2.5°	2850.9	2849.7	2852.0	2853.1	2862.0	2874.4	2880.1	2887.9	2892.4	2890.1
5°	2817.2	2819.4	2828.4	2835.2	2850.9	2871.2	2882.3	2891.2	2899.0	2895.7
7.5°	2789.2	2794.8	2808.2	2813.9	2822.8	2828.4	2827.3	2830.7	2837.4	2829.6
10°	2773.4	2780.2	2790.3	2782.4	2761.1	2730.8	2702.7	2688.3	2692.7	2687.0
12.5°	2757.7	2766.8	2758.9	2721.8	2662.4	2623.1	2601.8	2604.0	2614.1	2616.4
15°	2748.8	2752.1	2718.5	2648.9	2588.4	2582.7	2594.0	2591.7	2592.8	2592.8
17.5°	2748.8	2739.7	2677.0	2607.4	2581.6	2571.5	2536.7	2493.0	2473.8	2467.2
20°	2763.3	2739.7	2663.5	2617.6	2561.4	2475.0	2383.1	2302.2	2266.4	2256.2
22.5°	2807.1	2766.8	2701.7	2622.0	2462.7	2317.9	2172.1	2075.6	2010.5	1999.3
25°	2895.7	2850.9	2776.9	2562.5	2305.6	2099.2	1933.2	1825.4	1760.3	1751.3
27.5°	3050.6	3021.4	2817.2	2431.2	2096.9	1875.9	1722.2	1639.2	1591.0	1587.5
30°	3283.9	3269.4	2797.0	2237.2	1840.0	1659.3	1585.4	1537.1	1501.1	1500.0
32.5°	3656.5	3538.6	2730.8	2000.4	1605.4	1505.7	1475.3	1446.1	1418.1	1418.1
35°	4135.5	3756.3	2605.2	1746.8	1463.0	1420.4	1382.2	1336.2	1299.2	1297.0
37.5°	4698.7	3890.9	2379.6	1542.6	1395.7	1363.1	1307.1	1238.7	1173.6	1162.3
40°	5267.5	3931.2	2062.2	1417.0	1353.0	1305.9	1237.5	1156.7	1093.9	1090.5
42.5°	5789.2	3853.9	1725.5	1330.7	1310.4	1247.6	1175.8	1103.9	1054.7	1053.5
45°	6226.8	3653.1	1442.9	1248.8	1265.5	1194.9	1131.0	1072.6	1034.4	1026.6
47.5°	6638.6	3369.2	1244.3	1162.3	1220.7	1165.7	1111.8	1056.9	1019.8	1014.3
50°	7116.5	3062.9	1105.1	1078.2	1181.4	1155.6	1127.5	1070.3	1008.7	1001.9
52.5°	7695.4	2798.1	996.3	1004.1	1151.1	1169.1	1168.0	1108.4	1000.9	991.8
55°	8341.7	2504.2	914.4	943.6	1138.8	1193.7	1178.1	1144.4	1007.5	994.0
57.5°	8977.9	2160.8	857.1	897.6	1120.8	1191.5	1129.8	1081.5	1023.2	1004.1
60°	9454.6	1699.7	813.4	857.1	1081.5	1154.5	1077.1	1013.2	1019.8	1005.3
62.5°	9486.1	1313.9	760.7	822.4	1022.1	1117.5	1042.4	982.8	1034.4	1020.9
65°	8928.4	992.9	710.1	780.8	958.1	1093.9	1008.7	966.0	1064.7	1050.1
67.5°	7517.0	798.8	667.6	738.3	894.2	1044.5	978.3	950.3	1091.6	1065.9
70°	5426.9	681.0	626.0	686.5	836.9	988.5	951.4	922.2	1018.8	978.3
72.5°	3341.1	590.1	579.0	618.2	793.2	930.2	911.0	869.4	917.8	885.2
75°	1668.4	511.7	526.2	550.8	731.5	863.9	843.7	802.2	808.9	802.2
77.5°	798.8	437.6	464.5	483.6	651.8	788.8	767.4	724.8	717.0	718.1
80°	506.0	365.8	391.5	405.1	582.3	701.2	679.9	637.3	727.0	674.2
82.5°	316.5	297.3	304.1	328.8	507.1	610.3	582.3	544.1	655.2	518.3
85°	175.1	207.6	216.6	237.8	390.4	510.5	482.5	434.2	389.3	382.6
87.5°	104.4	123.5	126.7	142.5	262.6	369.1	326.4	309.6	257.0	255.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)