

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: P193183

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193183
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-05-LED-E1-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23251.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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

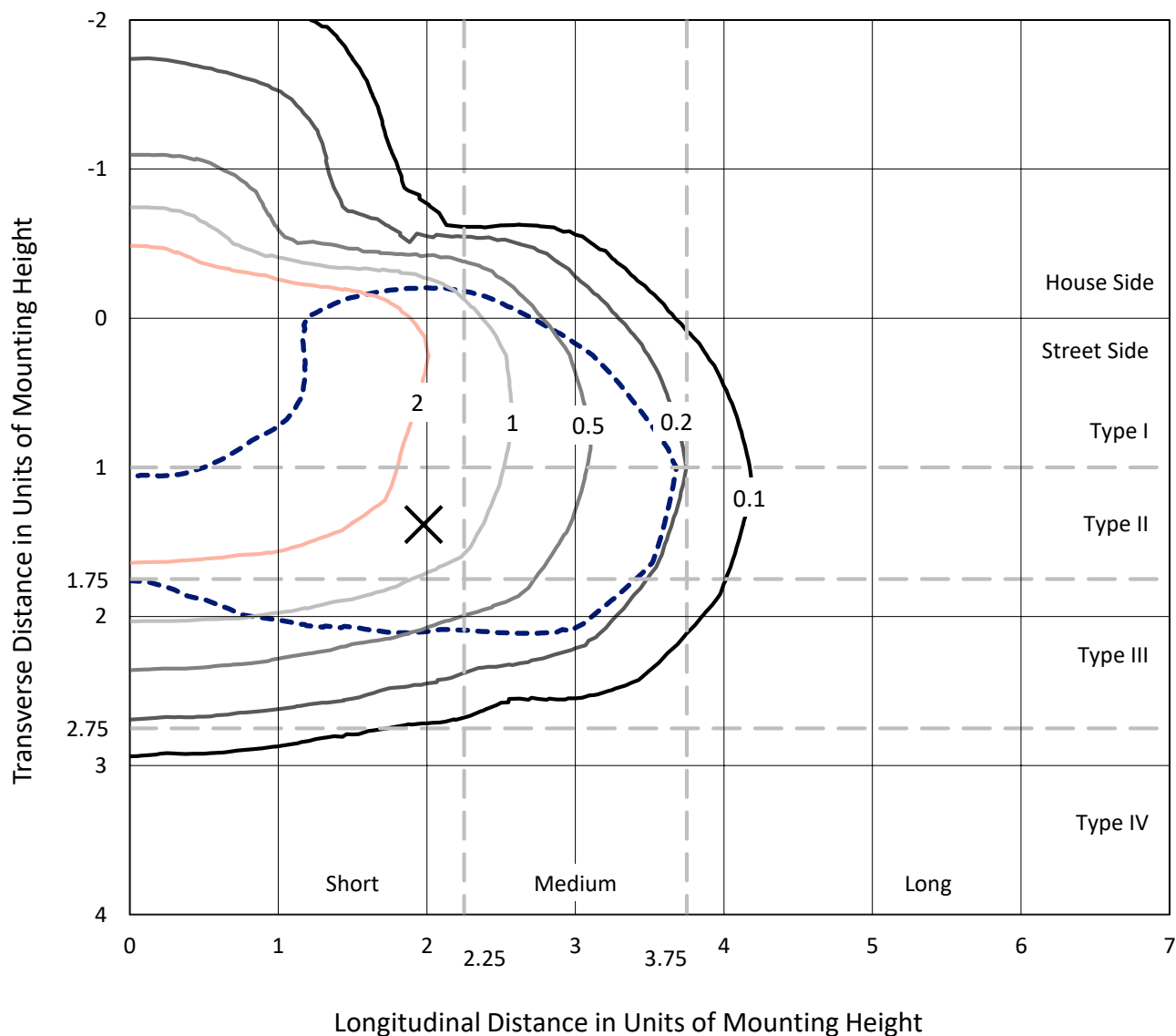


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

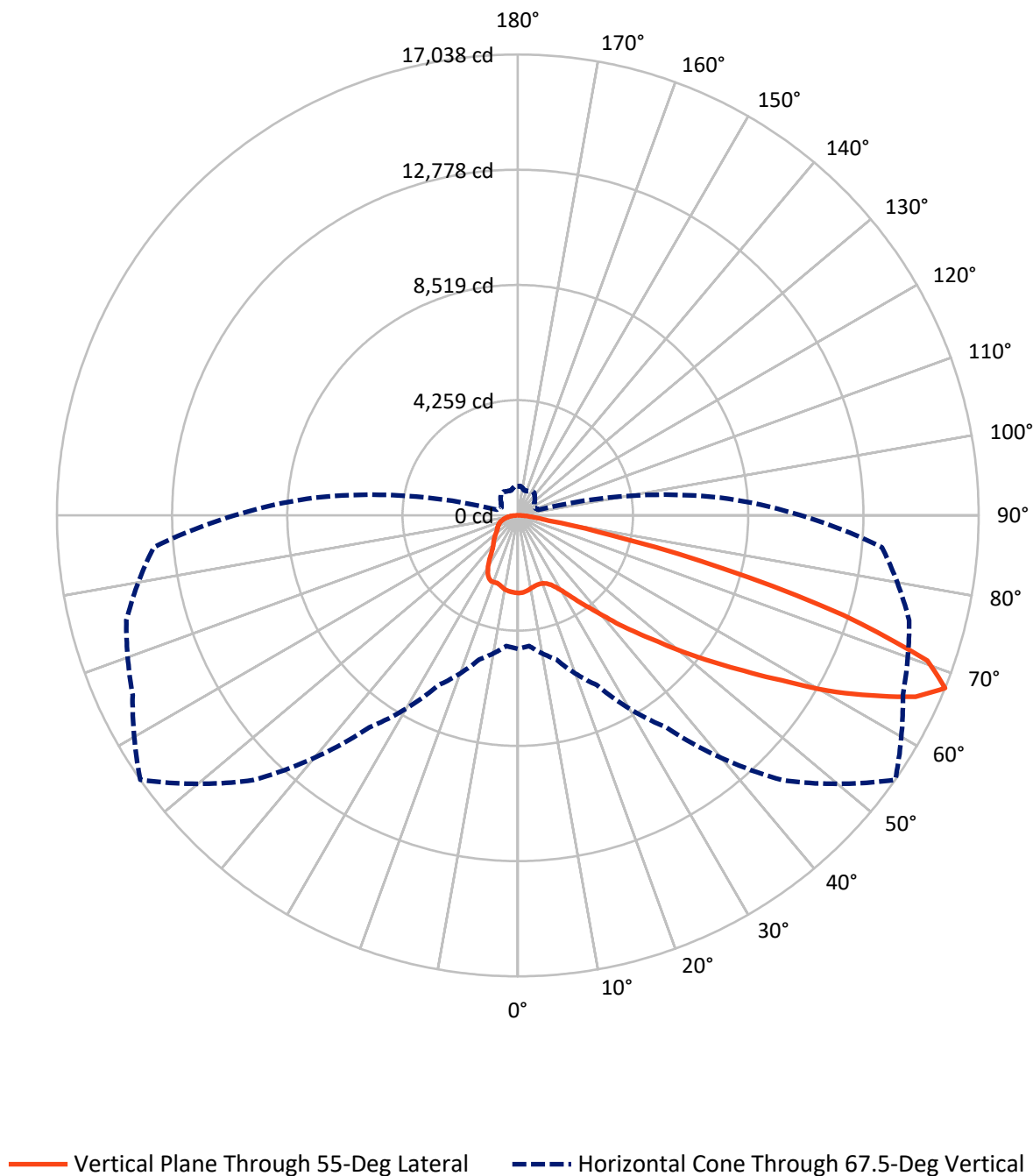


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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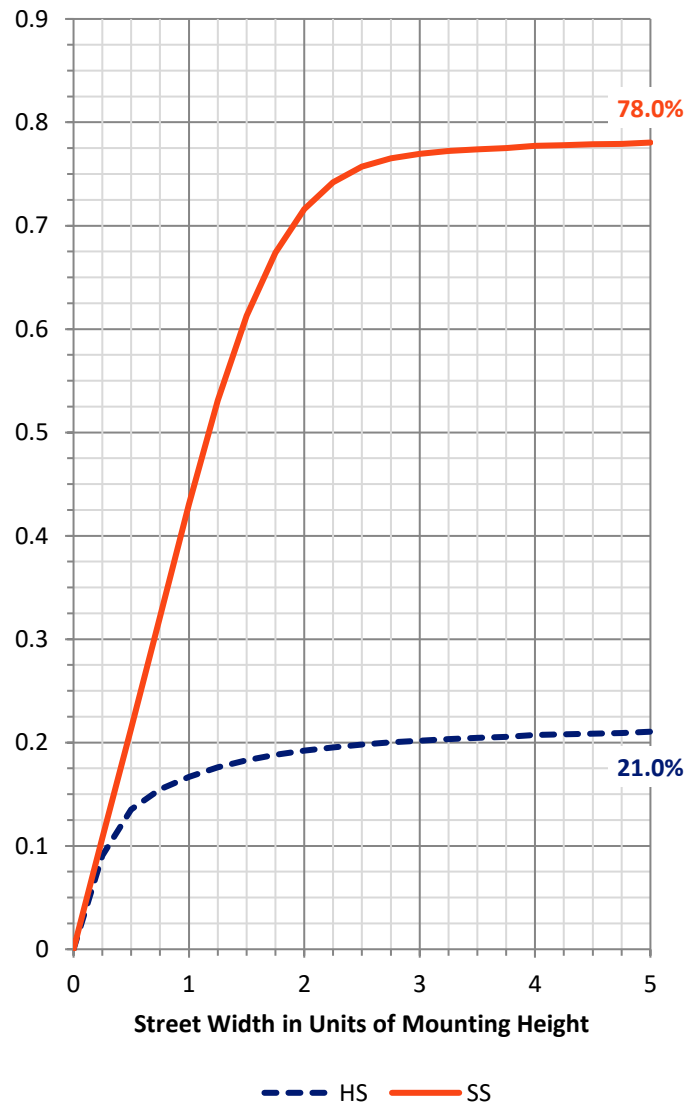
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5022.8	0.0	5022.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18228.7	0.0	18228.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	23251.5	0.0	23251.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.2
10°-20°	757.9	3.3
20°-30°	1269.6	5.5
30°-40°	2087.8	9.0
40°-50°	3514.5	15.1
50°-60°	5531.5	23.8
60°-70°	6601.3	28.4
70°-80°	2834.7	12.2
80°-90°	386.5	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°	23251.5	100.0
0°-180°	23251.5	100.0

Coefficient of Utilization



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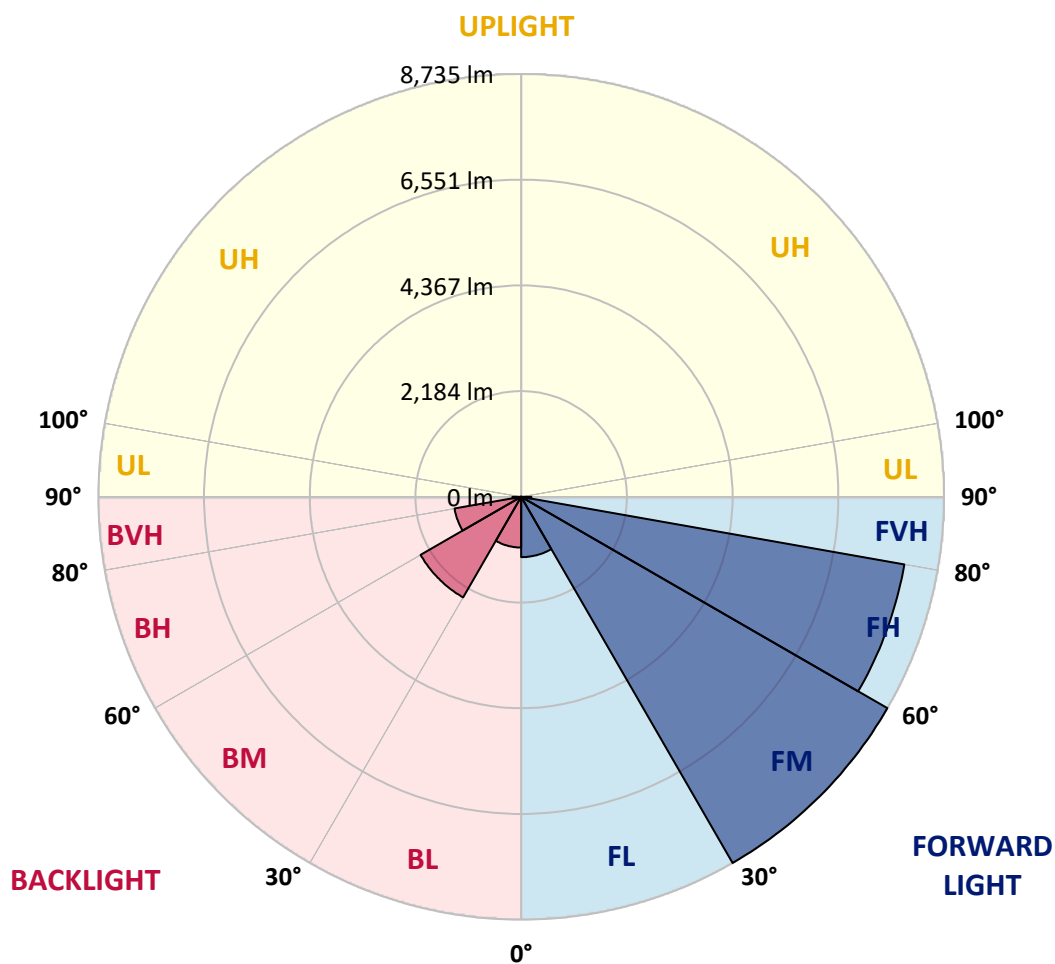
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.3	5.4			
FM	(30°-60°)	8735.0	37.6			
FH	(60°-80°)	8038.1	34.6			G4/12000
FVH	(80°-90°)	209.2	0.9			G2/225
BL	(0°-30°)	1048.9	4.5	B3/2500		
BM	(30°-60°)	2398.8	10.3	B2/2500		
BH	(60°-80°)	1397.8	6.0	B3/2500		G3/2500
BVH	(80°-90°)	177.3	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°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2842.5	2843.6	2845.8	2854.8	2862.7	2860.4	2861.5	2857.0	2855.9	2849.2	2855.9
5°	2806.6	2809.9	2811.0	2825.6	2834.6	2836.8	2833.4	2827.8	2821.1	2814.4	2817.8
7.5°	2724.5	2733.5	2734.6	2754.9	2769.5	2788.6	2789.7	2790.8	2787.4	2783.0	2789.7
10°	2672.9	2675.1	2674.0	2688.6	2699.8	2721.2	2733.5	2754.9	2763.8	2766.1	2770.6
12.5°	2669.5	2667.2	2663.8	2663.8	2660.5	2669.5	2691.9	2722.3	2743.6	2750.4	2755.9
15°	2705.5	2704.2	2693.1	2676.2	2654.9	2648.1	2667.2	2701.0	2729.1	2743.6	2749.3
17.5°	2786.3	2779.5	2761.6	2723.4	2677.4	2659.4	2661.7	2689.8	2722.3	2741.5	2747.0
20°	2934.6	2934.6	2896.4	2824.5	2742.5	2699.8	2679.6	2696.4	2727.8	2753.8	2761.6
22.5°	3190.6	3192.9	3128.8	3010.8	2872.8	2781.8	2731.3	2727.8	2765.0	2794.2	2803.1
25°	3553.3	3544.4	3454.6	3286.1	3076.0	2925.5	2838.0	2817.8	2849.2	2881.7	2892.9
27.5°	3975.6	3943.0	3836.3	3633.1	3361.3	3141.2	3006.4	2973.8	3004.2	3041.2	3052.4
30°	4393.5	4359.7	4232.8	4010.5	3708.4	3429.7	3236.7	3183.9	3226.5	3279.3	3286.1
32.5°	4811.1	4811.1	4669.6	4410.2	4081.2	3774.6	3543.3	3480.4	3551.2	3615.1	3629.7
35°	5310.9	5313.2	5176.1	4864.0	4510.2	4185.6	3930.7	3884.6	3991.3	4036.2	4071.1
37.5°	5925.2	5937.5	5761.2	5384.0	4996.4	4655.1	4351.8	4289.0	4395.6	4518.1	4630.4
40°	6589.0	6604.7	6410.3	5945.5	5558.0	5200.8	4873.0	4759.6	4937.0	5170.5	5315.5
42.5°	7222.4	7303.2	7115.7	6637.3	6220.5	5851.2	5518.6	5353.6	5575.9	5928.6	6054.4
45°	8137.6	8196.1	7869.3	7435.7	7043.8	6630.5	6190.3	6016.3	6327.3	6772.0	6797.9
47.5°	8747.6	8703.7	8537.5	8267.9	8019.7	7633.4	6970.8	6779.9	7193.2	7716.6	7571.6
50°	9072.1	9085.6	9063.0	9078.8	9087.7	8845.2	7927.7	7665.9	8159.1	8791.3	8457.8
52.5°	9375.2	9285.4	9359.5	9727.9	10172.6	10082.8	8968.8	8695.8	9194.5	9984.0	9394.3
55°	9368.6	9231.6	9473.0	10123.2	11087.9	11191.2	10137.8	9823.4	10289.4	11263.1	10387.2
57.5°	9037.3	9043.9	9415.8	10267.0	11725.8	12233.4	11494.5	11022.8	11450.7	12559.2	11293.5
60°	8581.2	8643.1	9178.8	10243.4	12236.8	13088.0	13158.8	12315.3	12588.3	13737.1	12043.6
62.5°	7845.7	7910.8	8649.7	9998.6	12159.4	13911.3	14663.6	13782.2	13777.6	14451.5	12263.8
65°	6685.6	6666.5	7442.5	9083.3	11509.1	14520.0	16158.5	15050.0	14673.8	14462.6	11821.3
67.5°	4930.3	4844.9	5510.8	6918.0	9566.2	13838.2	17037.9	15710.4	14979.3	13511.4	10469.1
70°	2558.3	2473.0	3012.1	4039.7	6291.3	10800.4	16064.2	15369.0	14304.3	11326.1	8201.6
72.5°	1093.9	1079.3	1298.2	1772.1	3043.5	6229.6	12596.2	13302.6	12273.8	8438.6	5638.9
75°	735.7	731.2	813.1	965.9	1369.0	2528.0	7882.7	9442.6	8979.9	5232.3	3171.5
77.5°	577.2	571.7	619.9	694.1	887.1	997.3	3498.3	5069.5	4692.1	2277.5	1388.1
80°	451.5	447.0	477.3	517.8	637.8	628.9	1151.1	2017.0	1561.1	872.7	675.0
82.5°	355.9	355.9	380.8	381.9	452.6	429.1	600.8	888.4	779.3	508.7	413.3
85°	325.7	325.7	351.5	285.2	295.3	270.6	372.9	526.7	494.2	208.9	179.7
87.5°	164.0	159.5	295.3	252.7	160.6	143.7	181.9	254.9	274.0	115.7	89.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2	2867.2
2.5°	2853.7	2852.5	2854.8	2855.9	2864.9	2877.3	2883.0	2890.8	2895.3	2892.9
5°	2820.0	2822.2	2831.2	2838.0	2853.7	2873.8	2885.1	2894.1	2901.9	2898.6
7.5°	2791.9	2797.6	2811.0	2816.6	2825.6	2831.2	2830.2	2833.4	2840.2	2832.3
10°	2776.2	2783.0	2793.0	2785.1	2763.8	2733.5	2705.5	2690.8	2695.3	2689.8
12.5°	2760.4	2769.5	2761.6	2724.5	2665.1	2625.7	2604.4	2606.6	2616.8	2619.0
15°	2751.4	2754.9	2721.2	2651.5	2590.9	2585.3	2596.5	2594.3	2595.4	2595.4
17.5°	2751.4	2742.5	2679.6	2609.9	2584.2	2574.0	2539.1	2495.5	2476.4	2469.6
20°	2766.1	2742.5	2666.2	2620.0	2564.0	2477.5	2385.3	2304.5	2268.5	2258.5
22.5°	2809.9	2769.5	2704.2	2624.6	2465.1	2320.2	2174.3	2077.7	2012.5	2001.3
25°	2898.6	2853.7	2779.5	2565.1	2307.9	2101.3	1935.0	1827.3	1762.1	1753.1
27.5°	3053.6	3024.4	2820.0	2433.6	2099.0	1877.7	1723.9	1640.7	1592.5	1589.1
30°	3287.2	3272.6	2799.8	2239.4	1841.8	1661.0	1586.9	1538.6	1502.7	1501.5
32.5°	3660.0	3542.0	2733.5	2002.4	1607.1	1507.1	1476.8	1447.5	1419.5	1419.5
35°	4139.7	3759.9	2607.7	1748.5	1464.5	1421.8	1383.5	1337.6	1300.5	1298.2
37.5°	4703.4	3894.8	2382.0	1544.2	1397.1	1364.5	1308.4	1239.9	1174.7	1163.5
40°	5272.8	3935.2	2064.1	1418.4	1354.4	1307.3	1238.8	1157.8	1095.0	1091.6
42.5°	5795.0	3857.7	1727.3	1332.0	1311.7	1248.9	1176.9	1105.0	1055.7	1054.6
45°	6232.9	3656.7	1444.3	1249.9	1266.8	1196.1	1132.0	1073.7	1035.4	1027.6
47.5°	6645.1	3372.5	1245.4	1163.5	1221.8	1166.9	1113.0	1057.9	1020.8	1015.2
50°	7123.4	3066.0	1106.2	1079.3	1182.6	1156.7	1128.6	1071.4	1009.7	1002.9
52.5°	7703.0	2800.9	997.3	1005.1	1152.2	1170.2	1169.1	1109.5	1001.8	992.7
55°	8349.9	2506.6	915.3	944.4	1139.9	1195.0	1179.2	1145.5	1008.5	995.1
57.5°	8986.7	2163.0	858.0	898.4	1122.0	1192.7	1131.0	1082.6	1024.2	1005.1
60°	9464.0	1701.3	814.2	858.0	1082.6	1155.6	1078.2	1014.2	1020.8	1006.3
62.5°	9495.4	1315.1	761.4	823.2	1023.1	1118.6	1043.3	983.8	1035.4	1022.0
65°	8937.3	993.9	710.8	781.6	959.1	1095.0	1009.7	967.0	1065.9	1051.2
67.5°	7524.4	799.7	668.2	738.9	895.1	1045.6	979.3	951.2	1092.7	1066.9
70°	5432.3	681.7	626.7	687.4	837.8	989.5	952.3	923.1	1019.7	979.3
72.5°	3344.4	590.8	579.5	618.9	794.0	931.0	911.9	870.4	918.7	886.1
75°	1670.0	512.1	526.7	551.4	732.2	864.8	844.6	802.9	809.7	802.9
77.5°	799.7	438.0	464.9	484.0	652.5	789.5	768.2	725.5	717.7	718.7
80°	506.5	366.1	391.9	405.5	582.9	701.9	680.5	637.8	727.7	675.0
82.5°	316.8	297.6	304.4	329.1	507.6	611.0	582.9	544.6	655.9	518.9
85°	175.2	207.8	216.8	238.0	390.8	511.0	482.9	434.7	389.7	383.0
87.5°	104.5	123.6	127.0	142.6	262.8	369.6	326.8	310.0	257.2	256.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)