

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: P192982

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17828.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 171
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

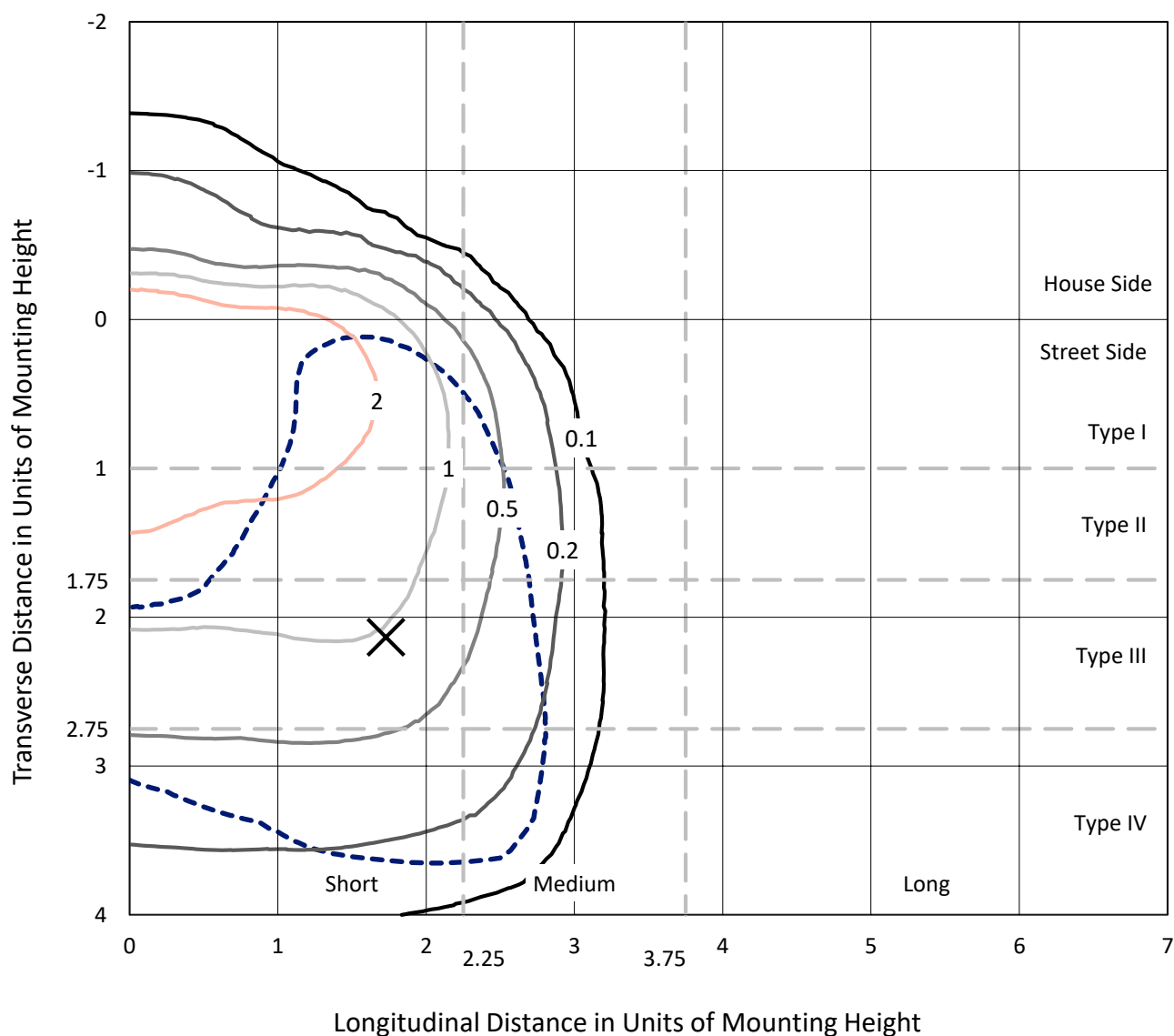


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

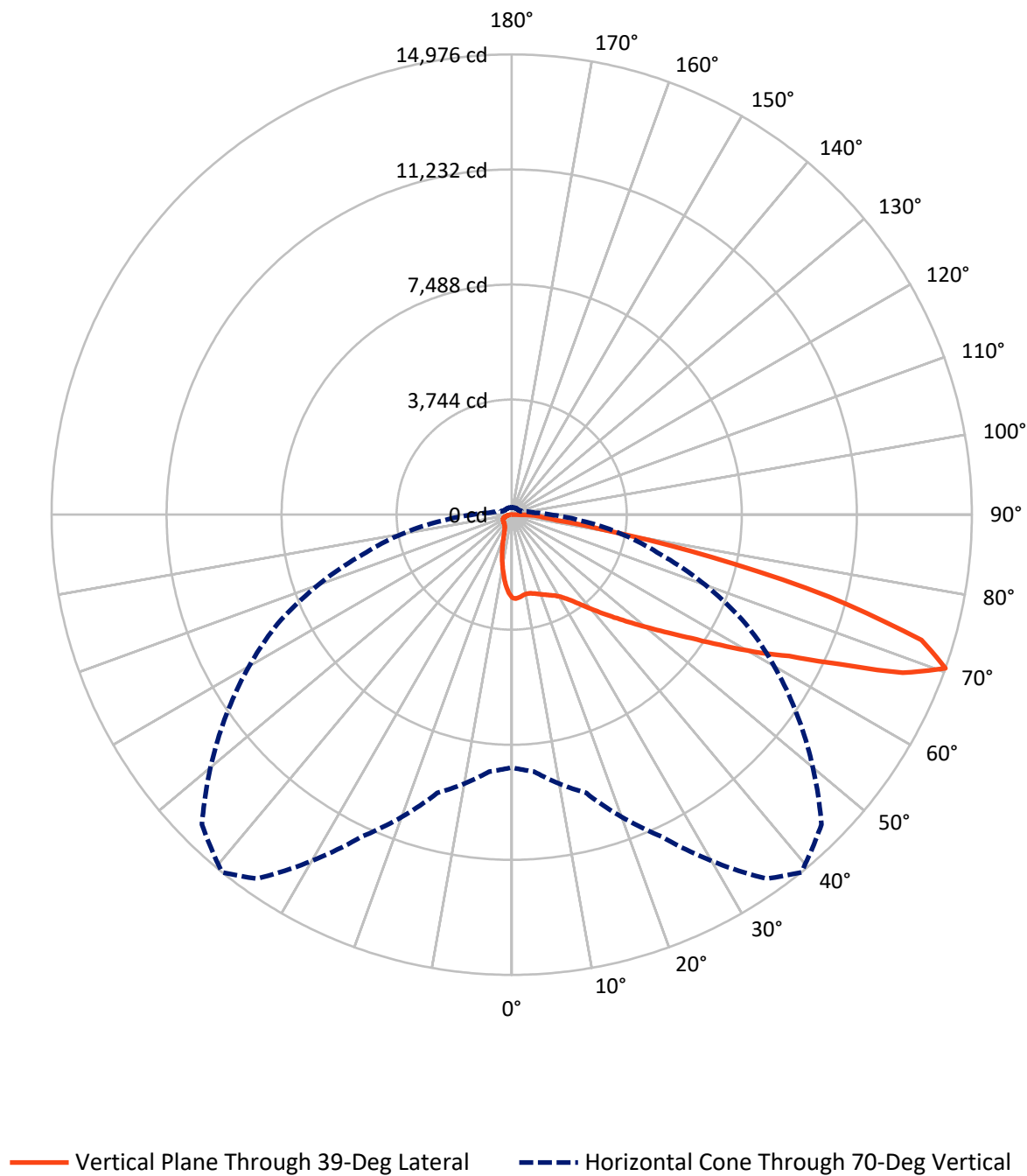


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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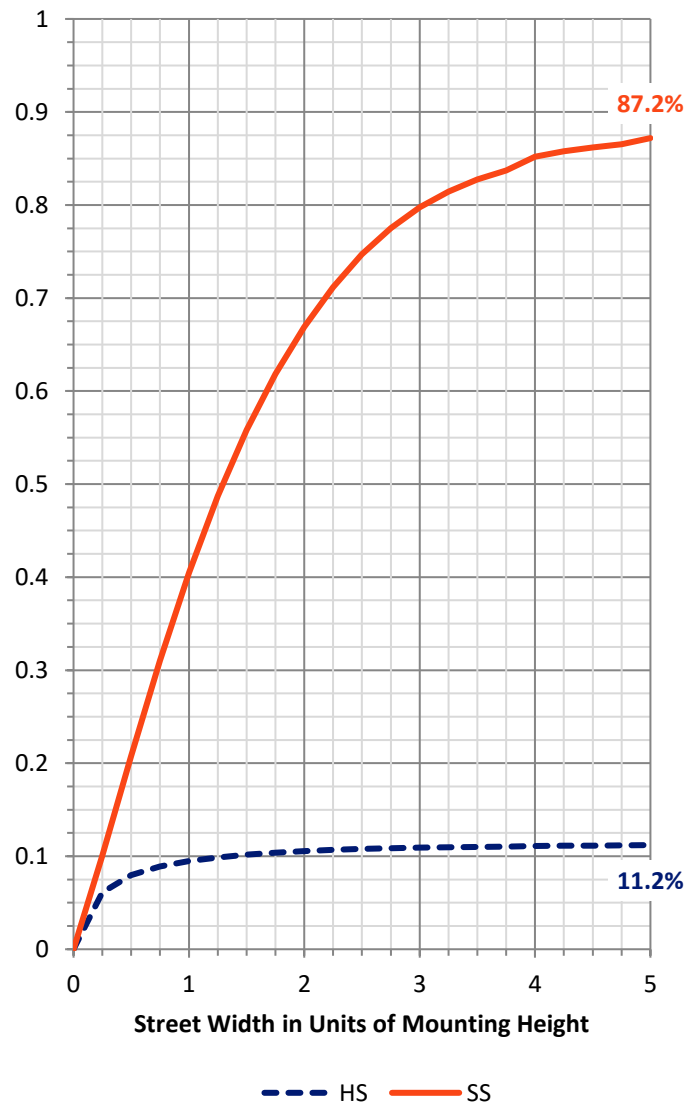
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.8	0.0	2027.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	15801.2	0.0	15801.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	17828.9	0.0	17828.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.3
10°-20°	580.6	3.3
20°-30°	904.1	5.1
30°-40°	1408.4	7.9
40°-50°	2364.4	13.3
50°-60°	3756.0	21.1
60°-70°	5010.1	28.1
70°-80°	3025.5	17.0
80°-90°	547.6	3.1
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°	17828.9	100.0
0°-180°	17828.9	100.0

Coefficient of Utilization



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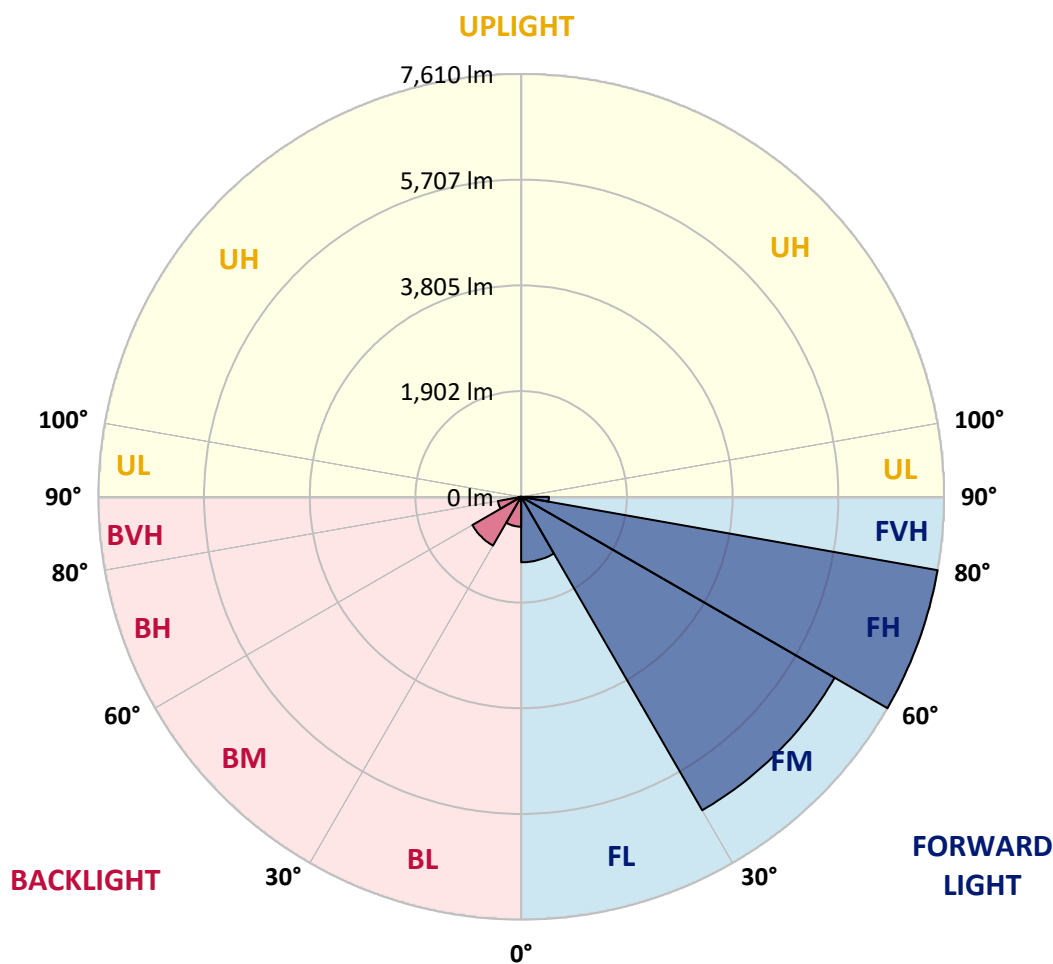
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.0	6.6			
FM	(30°-60°)	6514.0	36.5			
FH	(60°-80°)	7609.9	42.7			G4/12000
FVH	(80°-90°)	498.2	2.8			G3/500
BL	(0°-30°)	537.9	3.0	B2/1000		
BM	(30°-60°)	1014.8	5.7	B2/2500		
BH	(60°-80°)	425.7	2.4	B1/500		G1/500
BVH	(80°-90°)	49.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7
2.5°	2759.3	2758.4	2751.1	2745.6	2741.2	2739.3	2743.0	2729.4	2717.6	2703.1	2687.7
5°	2738.5	2737.5	2725.7	2714.9	2703.9	2700.4	2699.5	2675.0	2660.5	2638.7	2609.7
7.5°	2715.7	2711.3	2695.9	2677.7	2658.8	2649.6	2640.6	2608.8	2592.5	2570.8	2537.2
10°	2692.2	2686.8	2672.3	2654.1	2636.0	2622.4	2607.0	2576.3	2559.0	2542.7	2503.6
12.5°	2667.8	2663.2	2659.6	2651.4	2638.7	2626.9	2615.1	2588.9	2570.8	2551.8	2506.4
15°	2664.1	2662.3	2670.4	2675.9	2668.6	2661.3	2648.7	2626.0	2607.0	2588.0	2529.1
17.5°	2693.1	2692.2	2713.0	2727.5	2724.0	2711.3	2694.0	2668.6	2653.3	2636.9	2563.4
20°	2756.6	2761.1	2786.4	2805.6	2787.4	2769.2	2741.2	2705.8	2697.6	2690.4	2598.8
22.5°	2876.2	2880.7	2898.8	2906.1	2859.0	2832.6	2793.8	2748.4	2743.0	2748.4	2641.5
25°	3063.0	3058.3	3055.7	3028.4	2942.4	2901.6	2851.7	2804.5	2807.3	2831.8	2701.2
27.5°	3310.4	3286.0	3247.8	3166.4	3029.4	2984.1	2923.3	2879.8	2897.1	2944.2	2791.0
30°	3567.0	3539.8	3451.8	3318.5	3143.6	3093.7	3025.8	2976.9	3022.1	3096.5	2910.6
32.5°	3804.4	3800.8	3672.1	3500.7	3301.4	3257.9	3189.9	3134.5	3208.0	3321.3	3090.2
35°	4063.7	4071.9	3917.7	3712.0	3514.4	3469.1	3420.2	3378.4	3476.3	3632.3	3350.3
37.5°	4341.1	4357.4	4175.3	3943.1	3757.3	3738.3	3709.3	3691.1	3842.5	4058.2	3713.8
40°	4711.8	4695.5	4442.6	4204.2	4055.4	4054.6	4045.6	4067.2	4319.3	4614.8	4180.6
42.5°	5108.9	5060.8	4726.3	4484.3	4382.7	4413.6	4431.7	4520.5	4893.0	5291.0	4749.8
45°	5536.7	5428.9	5020.9	4780.7	4746.2	4811.6	4873.2	5066.3	5568.4	6060.6	5373.5
47.5°	5878.4	5774.3	5325.6	5091.6	5166.9	5265.6	5384.4	5689.9	6324.4	6855.6	5989.0
50°	6147.7	6079.6	5632.8	5454.2	5630.0	5782.3	5976.4	6396.0	7111.2	7629.7	6559.2
52.5°	6408.7	6357.9	5942.8	5825.8	6173.9	6384.2	6648.0	7153.9	7918.0	8391.1	7038.7
55°	6644.4	6608.1	6276.4	6289.1	6814.0	7087.6	7419.5	8016.8	8797.2	9070.0	7444.8
57.5°	6910.0	6863.7	6657.0	6870.1	7636.0	7991.4	8422.9	8986.7	9622.1	9673.9	7753.9
60°	7177.4	7137.5	7079.5	7540.8	8680.3	9053.8	9462.6	9926.8	10458.9	10142.4	7735.8
62.5°	7409.4	7414.0	7516.4	8245.2	9702.8	10135.2	10633.7	11092.4	11215.7	10224.1	7163.8
65°	7802.9	7874.5	8179.9	9242.4	11142.3	11720.6	12332.4	12259.0	11425.1	9461.8	5937.3
67.5°	8270.6	8396.6	9015.7	10571.2	12961.5	13729.3	13965.9	12522.9	10586.5	7691.5	4232.2
70°	8223.5	8396.6	9376.5	11562.0	14460.9	14975.7	14257.8	11333.6	8406.5	5024.5	2248.0
72.5°	7302.5	7550.0	8641.4	11107.9	13988.6	13943.2	12377.8	8449.1	4994.7	2017.8	878.3
75°	5565.6	5815.9	6755.0	8775.4	11056.2	10675.5	8782.7	4667.4	1895.4	801.3	553.8
77.5°	3201.7	3395.7	4120.8	5381.7	7014.2	6623.6	4888.6	2075.8	922.8	558.5	432.3
80°	1787.6	1895.4	2336.0	2730.3	3437.3	3150.9	2187.3	1290.0	688.9	405.3	333.6
82.5°	1413.2	1509.3	1889.1	1722.3	1569.9	1448.6	1256.4	1148.6	550.2	255.6	199.4
85°	1234.6	1326.2	1599.0	1356.1	1072.4	983.6	1020.7	1130.4	427.9	154.0	170.5
87.5°	1144.0	1266.4	1425.0	1045.2	834.8	739.6	941.9	1239.1	137.7	96.0	69.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7	2706.7
2.5°	2674.1	2659.6	2636.0	2615.1	2582.6	2565.3	2546.3	2532.6	2521.8	2512.8	2527.2
5°	2591.6	2564.5	2514.5	2461.1	2397.5	2347.8	2306.0	2267.0	2240.0	2221.8	2234.5
7.5°	2513.6	2469.3	2391.2	2294.2	2185.5	2093.1	2016.9	1949.8	1903.7	1873.7	1885.5
10°	2469.3	2413.9	2293.4	2141.1	1980.7	1836.5	1716.9	1613.5	1541.8	1501.1	1507.4
12.5°	2458.4	2386.8	2219.9	2010.6	1791.2	1590.9	1422.2	1279.0	1178.4	1125.8	1127.7
15°	2466.5	2375.0	2151.1	1885.5	1608.1	1355.2	1144.8	970.9	853.9	794.1	793.1
17.5°	2480.0	2365.9	2078.5	1750.4	1422.2	1128.5	893.7	723.4	620.0	572.0	568.3
20°	2494.6	2351.4	1996.9	1604.5	1229.1	918.3	699.8	566.5	501.3	474.9	473.2
22.5°	2515.4	2338.7	1912.7	1450.3	1039.7	747.9	575.6	485.8	451.5	437.8	436.1
25°	2549.0	2332.3	1822.9	1290.0	869.2	625.5	501.3	446.0	426.0	417.0	416.1
27.5°	2605.2	2341.4	1738.7	1134.0	730.6	543.0	459.6	426.0	411.6	403.3	402.5
30°	2677.7	2369.5	1649.9	986.3	622.8	486.7	434.2	412.5	400.7	392.5	392.5
32.5°	2798.2	2416.6	1556.4	858.4	545.6	447.8	415.1	400.7	390.7	384.4	383.4
35°	2975.9	2505.5	1469.4	752.4	490.3	419.7	398.8	388.0	380.8	377.1	377.1
37.5°	3234.3	2645.9	1392.3	676.2	456.8	400.7	383.4	375.3	370.7	370.7	370.7
40°	3581.4	2839.9	1329.8	625.5	437.8	387.1	371.7	365.3	362.6	363.5	363.5
42.5°	4010.3	3091.9	1288.0	590.1	428.8	378.9	363.5	358.1	355.3	354.4	355.3
45°	4498.8	3378.4	1283.6	563.8	419.7	373.4	358.1	352.6	347.2	343.5	343.5
47.5°	4973.8	3669.4	1320.7	554.7	409.7	367.1	353.6	348.1	339.9	331.8	331.8
50°	5393.5	3916.8	1370.5	558.5	406.1	358.1	346.3	343.5	330.8	321.8	320.9
52.5°	5727.1	4107.2	1411.4	569.2	409.7	351.7	337.2	338.1	324.5	314.5	313.7
55°	5994.5	4232.2	1400.4	580.1	417.9	348.1	329.1	330.8	320.0	310.0	310.0
57.5°	6111.4	4186.0	1280.0	571.1	424.3	349.0	322.8	330.0	320.9	311.8	311.8
60°	5860.3	3775.5	1054.3	531.2	416.1	346.3	320.0	333.6	332.7	323.6	322.8
62.5°	5100.7	3040.2	817.6	472.2	388.0	332.7	312.7	332.7	342.6	339.9	339.0
65°	3931.3	2165.5	624.5	408.8	349.8	310.0	293.7	311.8	325.4	329.1	328.1
67.5°	2551.8	1327.1	481.3	349.0	307.3	283.7	269.3	277.4	280.1	280.1	278.3
70°	1254.6	714.3	383.4	293.7	263.8	255.6	247.5	242.9	238.4	234.8	234.8
72.5°	619.1	466.9	315.4	248.3	227.5	223.9	222.2	216.7	213.0	208.4	206.7
75°	457.8	379.7	268.3	209.3	195.8	192.2	195.8	191.3	190.3	186.8	184.8
77.5°	376.2	323.6	231.2	179.5	167.7	161.3	166.8	167.7	168.6	163.2	161.3
80°	305.5	273.8	193.1	148.7	137.7	133.3	136.9	144.1	146.0	137.7	134.2
82.5°	220.2	223.9	155.9	116.1	107.0	103.4	110.6	119.6	121.5	109.7	107.0
85°	184.8	186.8	119.6	82.5	73.4	68.0	79.8	88.8	95.2	83.4	80.7
87.5°	77.0	109.7	69.0	46.2	40.8	35.4	42.6	47.1	57.2	52.6	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)