

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: P192991

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192991
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-03-LED-E1-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 16701.4 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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

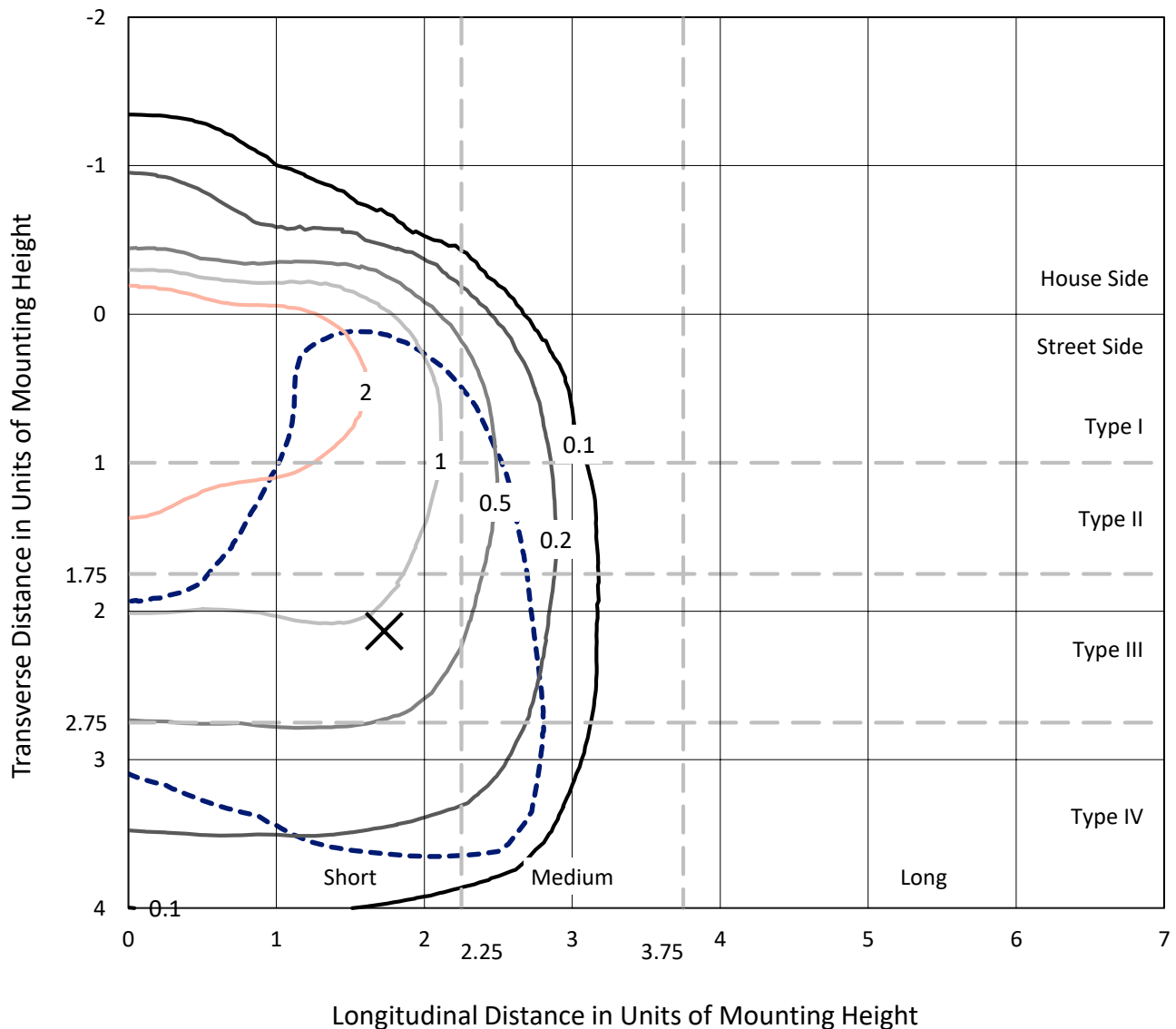


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

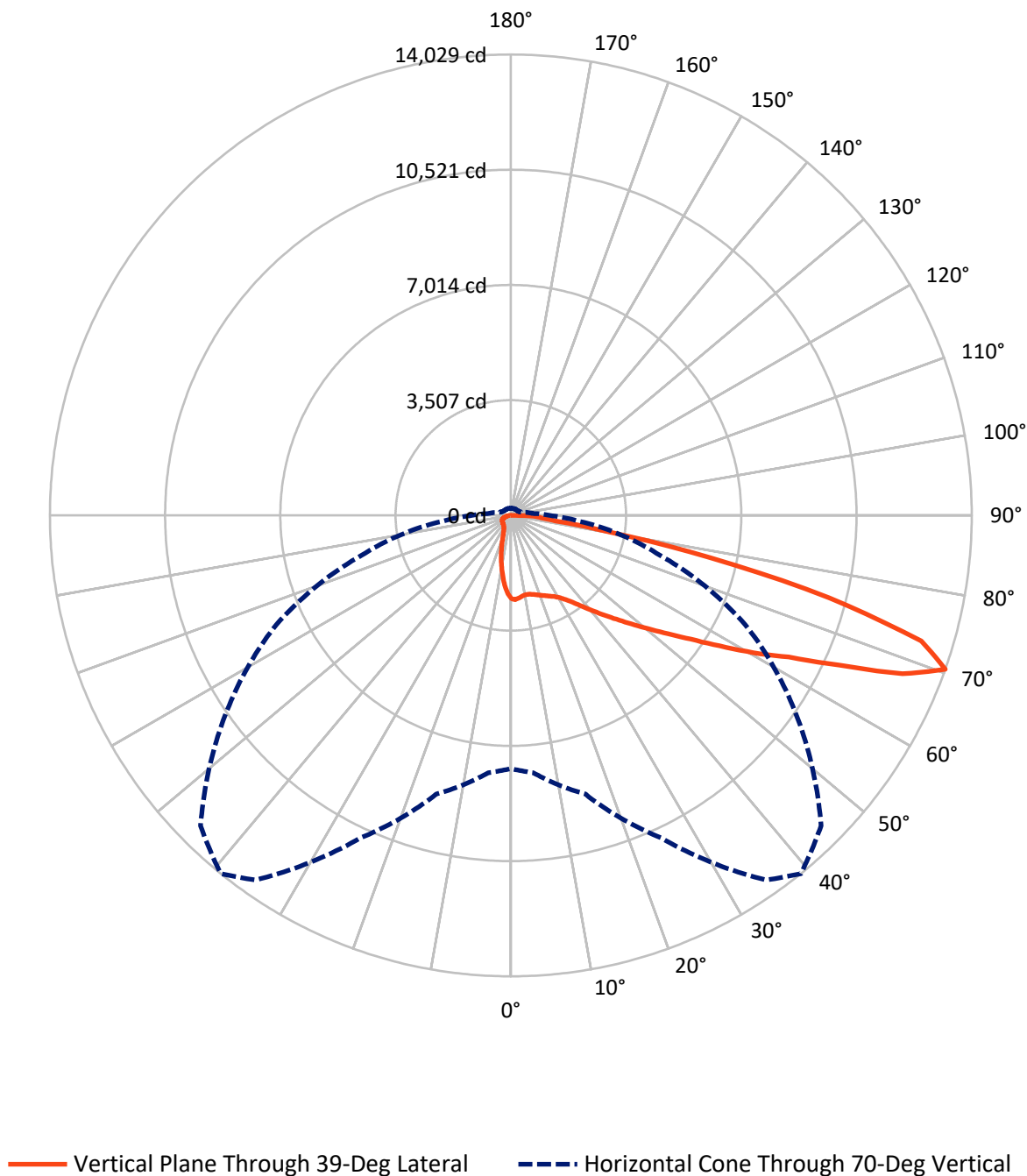


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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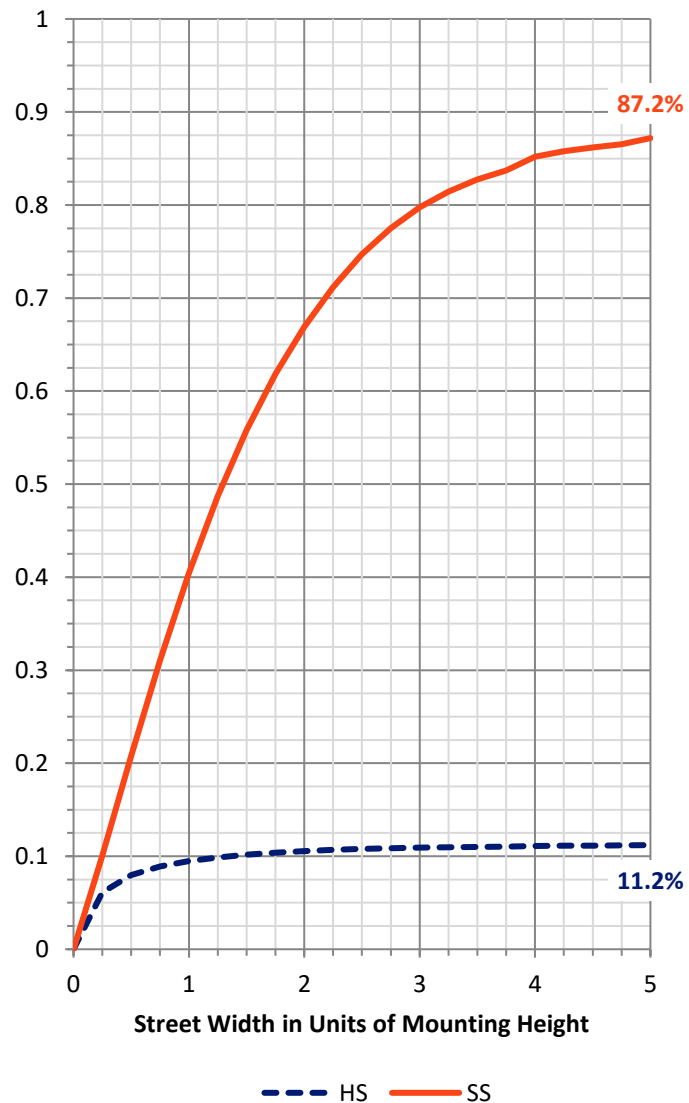
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1899.5	0.0	1899.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	14801.8	0.0	14801.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	16701.4	0.0	16701.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	1.3
10°-20°	543.9	3.3
20°-30°	846.9	5.1
30°-40°	1319.3	7.9
40°-50°	2214.9	13.3
50°-60°	3518.5	21.1
60°-70°	4693.3	28.1
70°-80°	2834.1	17.0
80°-90°	512.9	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°	16701.4	100.0
0°-180°	16701.4	100.0

Coefficient of Utilization



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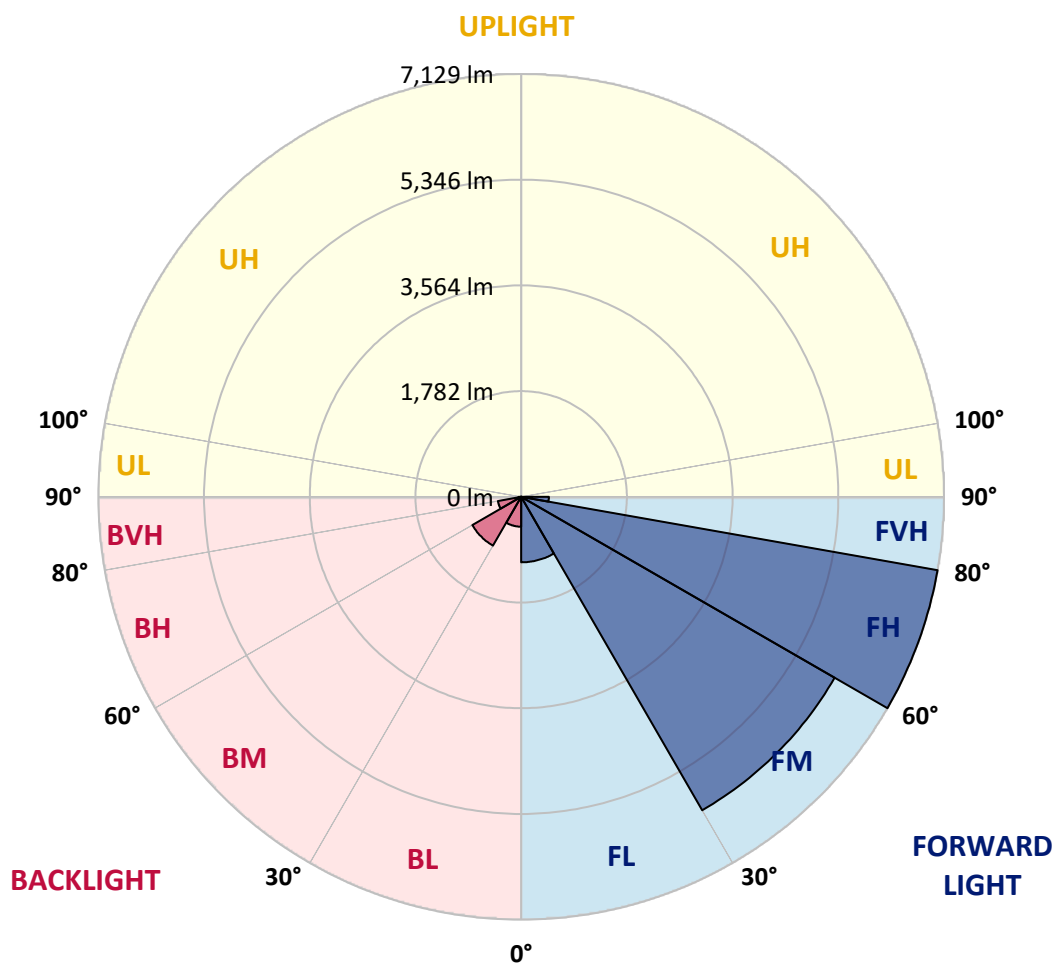
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1104.5	6.6			
FM	(30°-60°)	6102.0	36.5			
FH	(60°-80°)	7128.6	42.7			G3/7500
FVH	(80°-90°)	466.7	2.8			G3/500
BL	(0°-30°)	503.9	3.0	B2/1000		
BM	(30°-60°)	950.6	5.7	B1/1000		
BH	(60°-80°)	398.8	2.4	B1/500		G1/500
BVH	(80°-90°)	46.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2584.7	2584.0	2577.1	2572.1	2567.8	2566.1	2569.4	2556.7	2545.7	2532.1	2517.7
5°	2565.3	2564.5	2553.4	2543.1	2532.9	2529.6	2528.7	2505.9	2492.2	2471.9	2444.6
7.5°	2544.0	2539.7	2525.3	2508.4	2490.6	2482.1	2473.5	2443.8	2428.5	2408.2	2376.7
10°	2521.9	2516.9	2503.2	2486.3	2469.3	2456.5	2442.2	2413.2	2397.1	2381.9	2345.4
12.5°	2499.0	2494.7	2491.3	2483.7	2471.9	2460.8	2449.8	2425.1	2408.2	2390.4	2347.9
15°	2495.6	2494.0	2501.6	2506.6	2499.9	2493.1	2481.2	2460.0	2442.2	2424.3	2369.1
17.5°	2522.8	2521.9	2541.5	2555.0	2551.6	2539.7	2523.7	2499.9	2485.4	2470.2	2401.4
20°	2582.3	2586.5	2610.2	2628.1	2611.1	2594.2	2567.8	2534.7	2527.0	2520.3	2434.6
22.5°	2694.4	2698.6	2715.5	2722.3	2678.2	2653.6	2617.1	2574.5	2569.4	2574.5	2474.4
25°	2869.2	2865.0	2862.5	2836.9	2756.3	2718.1	2671.4	2627.2	2629.8	2652.7	2530.5
27.5°	3101.1	3078.2	3042.5	2966.1	2837.8	2795.4	2738.5	2697.7	2713.9	2758.0	2614.5
30°	3341.3	3315.9	3233.5	3108.7	2944.9	2898.1	2834.4	2788.7	2831.0	2900.7	2726.6
32.5°	3563.8	3560.4	3439.8	3279.4	3092.6	3051.8	2988.1	2936.4	3005.0	3111.2	2894.8
35°	3806.7	3814.3	3670.0	3477.1	3292.1	3249.7	3203.8	3164.7	3256.5	3402.5	3138.4
37.5°	4066.5	4081.8	3911.2	3693.7	3519.7	3501.9	3474.7	3457.7	3599.5	3801.5	3479.0
40°	4413.8	4398.6	4161.5	3938.2	3799.1	3798.2	3789.6	3810.1	4046.2	4323.0	3916.2
42.5°	4785.8	4740.8	4427.4	4200.7	4105.6	4134.5	4151.5	4234.7	4583.7	4956.4	4449.5
45°	5186.5	5085.5	4703.4	4478.3	4446.1	4507.3	4565.0	4745.7	5216.2	5677.3	5033.7
47.5°	5506.6	5409.0	4988.7	4769.6	4840.0	4932.6	5043.9	5330.0	5924.5	6422.0	5610.3
50°	5758.8	5695.1	5276.5	5109.3	5274.0	5416.6	5598.3	5991.6	6661.5	7147.2	6144.4
52.5°	6003.4	5955.8	5567.0	5457.4	5783.5	5980.6	6227.6	6701.4	7417.2	7860.4	6593.6
55°	6224.2	6190.2	5879.5	5891.4	6382.9	6639.4	6950.2	7509.8	8240.9	8496.4	6974.0
57.5°	6472.9	6429.7	6236.1	6435.6	7153.1	7486.0	7890.1	8418.3	9013.6	9062.0	7263.5
60°	6723.5	6686.1	6631.8	7063.9	8131.4	8481.1	8864.2	9298.9	9797.4	9500.9	7246.5
62.5°	6940.8	6945.1	7041.1	7723.7	9089.2	9494.2	9961.2	10390.9	10506.4	9577.4	6710.7
65°	7309.3	7376.4	7662.6	8657.8	10437.6	10979.4	11552.5	11483.7	10702.5	8863.3	5561.9
67.5°	7747.6	7865.6	8445.5	9902.6	12141.9	12861.0	13082.7	11730.8	9917.1	7205.0	3964.6
70°	7703.5	7865.6	8783.5	10830.8	13546.3	14028.6	13356.1	10616.7	7874.9	4706.8	2105.9
72.5°	6840.6	7072.5	8094.8	10405.3	13103.9	13061.4	11595.0	7914.8	4678.7	1890.1	822.8
75°	5213.8	5448.1	6327.7	8220.5	10356.9	10000.3	8227.3	4372.2	1775.6	750.6	518.9
77.5°	2999.1	3180.9	3860.1	5041.3	6570.7	6204.7	4579.4	1944.5	864.5	523.1	405.1
80°	1674.5	1775.6	2188.3	2557.6	3220.0	2951.6	2048.9	1208.3	645.4	379.5	312.5
82.5°	1323.7	1413.9	1769.6	1613.3	1470.7	1356.9	1176.9	1075.8	515.3	239.5	186.9
85°	1156.5	1242.3	1497.8	1270.3	1004.5	921.3	956.1	1058.8	400.8	144.3	159.6
87.5°	1071.7	1186.2	1334.8	979.1	782.1	692.9	882.3	1160.8	129.0	90.0	64.6
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°	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2505.0	2491.3	2469.3	2449.8	2419.2	2403.0	2385.2	2372.4	2362.3	2353.8	2367.4
5°	2427.7	2402.2	2355.5	2305.4	2246.0	2199.3	2160.2	2123.7	2098.3	2081.3	2093.1
7.5°	2354.6	2313.0	2240.1	2149.1	2047.3	1960.6	1889.3	1826.5	1783.2	1755.1	1766.1
10°	2313.0	2261.2	2148.4	2005.7	1855.3	1720.4	1608.3	1511.5	1444.4	1406.1	1412.0
12.5°	2302.8	2235.8	2079.5	1883.4	1677.9	1490.2	1332.3	1198.1	1103.8	1054.7	1056.3
15°	2310.5	2224.7	2015.0	1766.1	1506.3	1269.5	1072.5	909.5	799.9	743.8	743.0
17.5°	2323.3	2216.3	1947.1	1639.7	1332.3	1057.2	837.3	677.6	580.8	535.8	532.4
20°	2336.8	2202.6	1870.6	1503.0	1151.5	860.2	655.5	530.7	469.6	444.9	443.3
22.5°	2356.4	2190.7	1791.7	1358.6	973.9	700.6	539.2	455.2	422.9	410.2	408.4
25°	2387.8	2184.8	1707.6	1208.3	814.3	585.9	469.6	417.8	399.2	390.6	389.7
27.5°	2440.5	2193.3	1628.6	1062.2	684.4	508.6	430.5	399.2	385.4	377.8	377.1
30°	2508.4	2219.6	1545.5	923.9	583.3	455.9	406.8	386.3	375.3	367.6	367.6
32.5°	2621.2	2263.9	1457.9	804.1	511.3	419.4	388.9	375.3	366.0	360.0	359.1
35°	2787.8	2347.0	1376.4	704.8	459.4	393.2	373.6	363.4	356.6	353.2	353.2
37.5°	3029.8	2478.6	1304.2	633.4	428.0	375.3	359.1	351.6	347.3	347.3	347.3
40°	3355.0	2660.4	1245.7	585.9	410.2	362.6	348.1	342.2	339.7	340.5	340.5
42.5°	3756.6	2896.5	1206.7	552.8	401.6	355.0	340.5	335.4	332.9	332.0	332.9
45°	4214.2	3164.7	1202.4	528.2	393.2	349.8	335.4	330.3	325.3	321.9	321.9
47.5°	4659.3	3437.3	1237.2	519.6	383.8	343.9	331.2	326.0	318.4	310.8	310.8
50°	5052.3	3669.2	1283.9	523.1	380.4	335.4	324.4	321.9	310.0	301.4	300.6
52.5°	5364.8	3847.4	1322.1	533.3	383.8	329.4	315.9	316.8	304.0	294.7	293.8
55°	5615.4	3964.6	1311.8	543.4	391.4	326.0	308.2	310.0	299.7	290.4	290.4
57.5°	5724.8	3921.4	1199.0	535.0	397.3	326.9	302.3	309.1	300.6	292.0	292.0
60°	5489.7	3536.6	987.6	497.5	389.7	324.4	299.7	312.5	311.6	303.2	302.3
62.5°	4778.1	2848.1	765.9	442.4	363.4	311.6	293.0	311.6	321.0	318.4	317.6
65°	3682.7	2028.6	585.1	383.0	327.8	290.4	275.2	292.0	304.9	308.2	307.3
67.5°	2390.4	1243.2	450.9	326.9	287.9	265.8	252.2	259.8	262.3	262.3	260.7
70°	1175.2	669.1	359.1	275.2	247.2	239.5	231.8	227.6	223.3	219.9	219.9
72.5°	579.9	437.2	295.5	232.6	213.2	209.8	208.0	202.9	199.5	195.3	193.6
75°	428.9	355.7	251.3	196.1	183.4	180.1	183.4	179.1	178.3	175.0	173.1
77.5°	352.4	303.2	216.6	168.2	157.2	151.1	156.2	157.2	158.0	152.9	151.1
80°	286.2	256.4	180.9	139.3	129.0	124.8	128.3	135.1	136.7	129.0	125.6
82.5°	206.4	209.8	146.1	108.7	100.2	96.8	103.6	112.1	113.7	102.7	100.2
85°	173.1	175.0	112.1	77.2	68.9	63.7	74.8	83.2	89.1	78.1	75.6
87.5°	72.2	102.7	64.6	43.2	38.2	33.1	39.9	44.1	53.5	49.2	48.4
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)