

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: P193001

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193001
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-SL4-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 18320.6 lumens
Efficiency: N/A
Efficacy: 95.9 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): 191
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



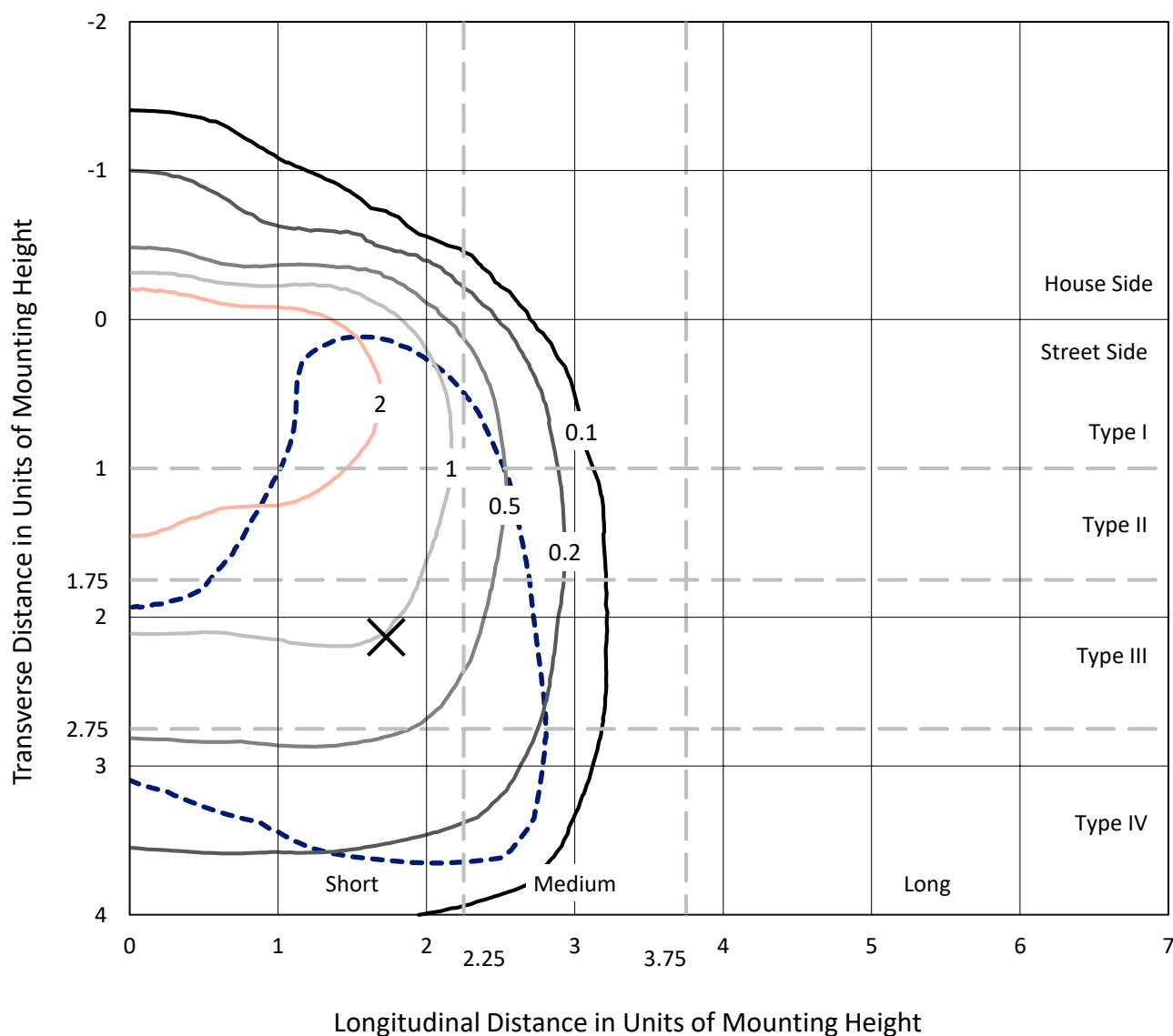
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

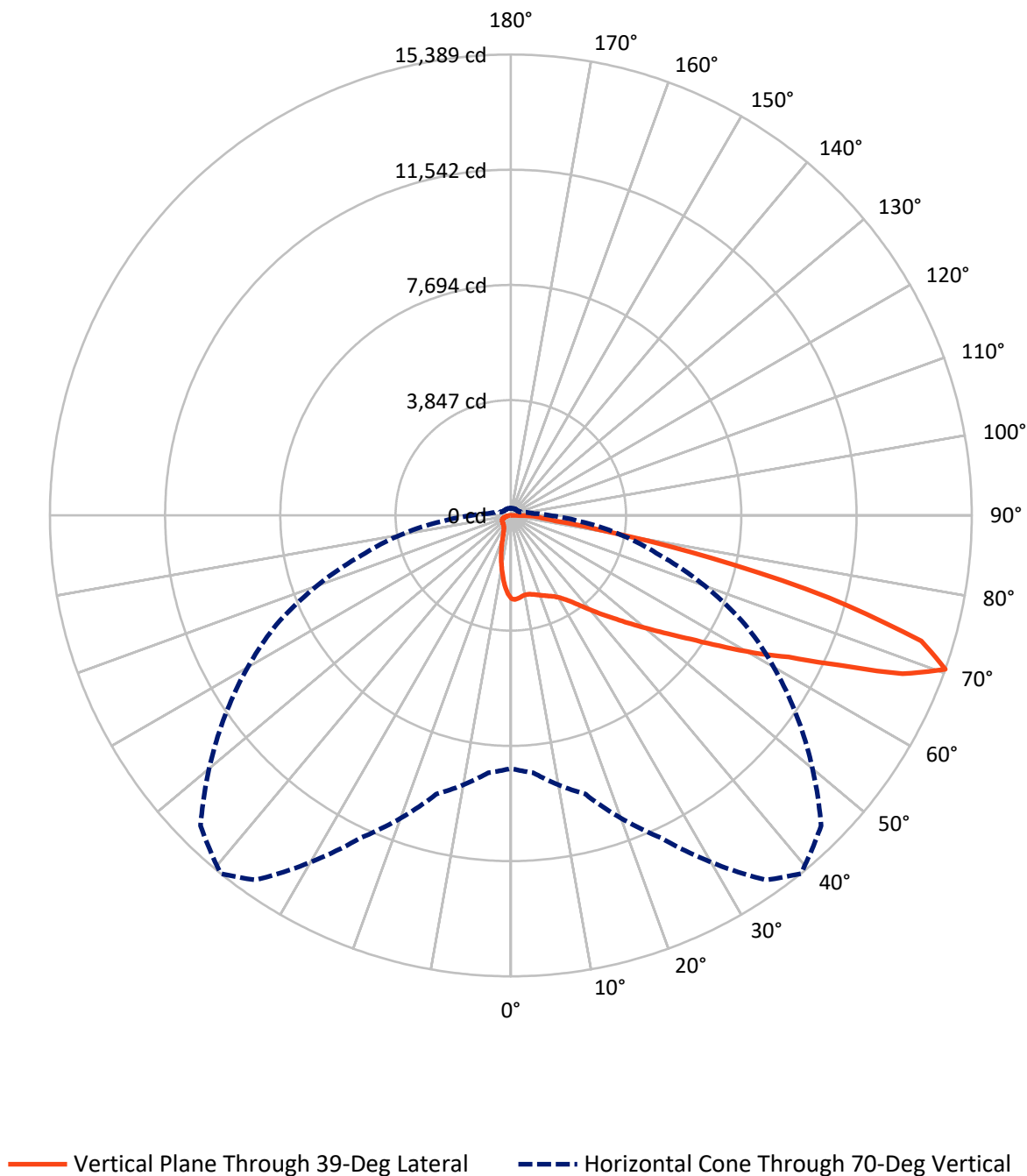


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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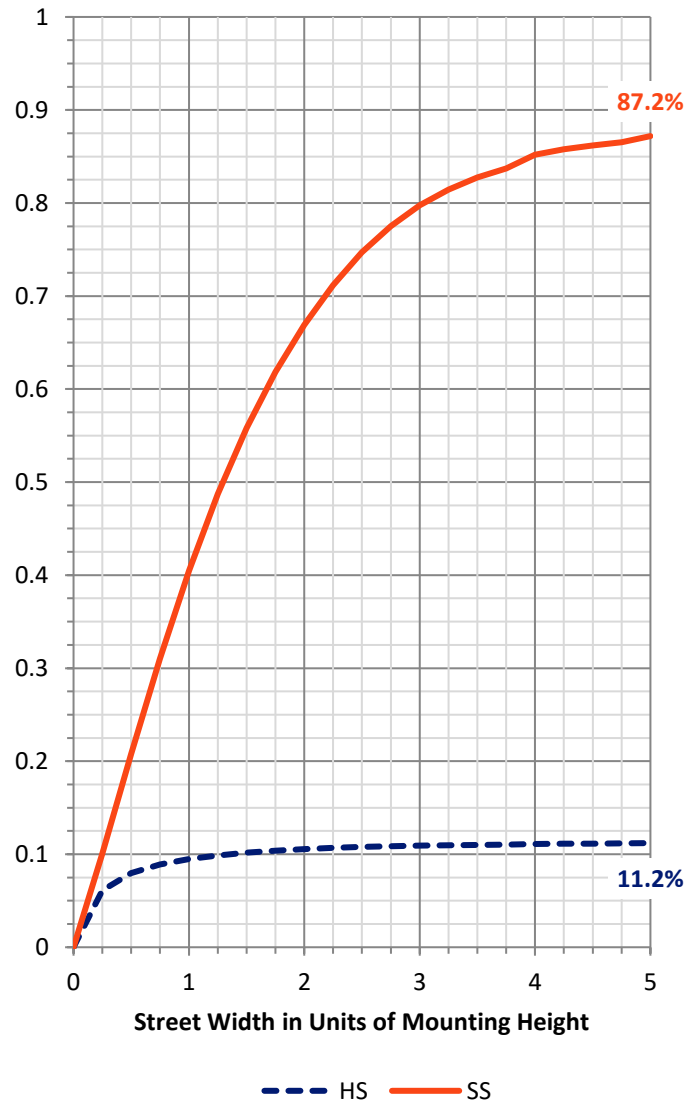
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2083.7	0.0	2083.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16236.9	0.0	16236.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	18320.6	0.0	18320.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	1.3
10°-20°	596.6	3.3
20°-30°	929.0	5.1
30°-40°	1447.2	7.9
40°-50°	2429.6	13.3
50°-60°	3859.6	21.1
60°-70°	5148.3	28.1
70°-80°	3108.9	17.0
80°-90°	562.7	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°	18320.6	100.0
0°-180°	18320.6	100.0

Coefficient of Utilization



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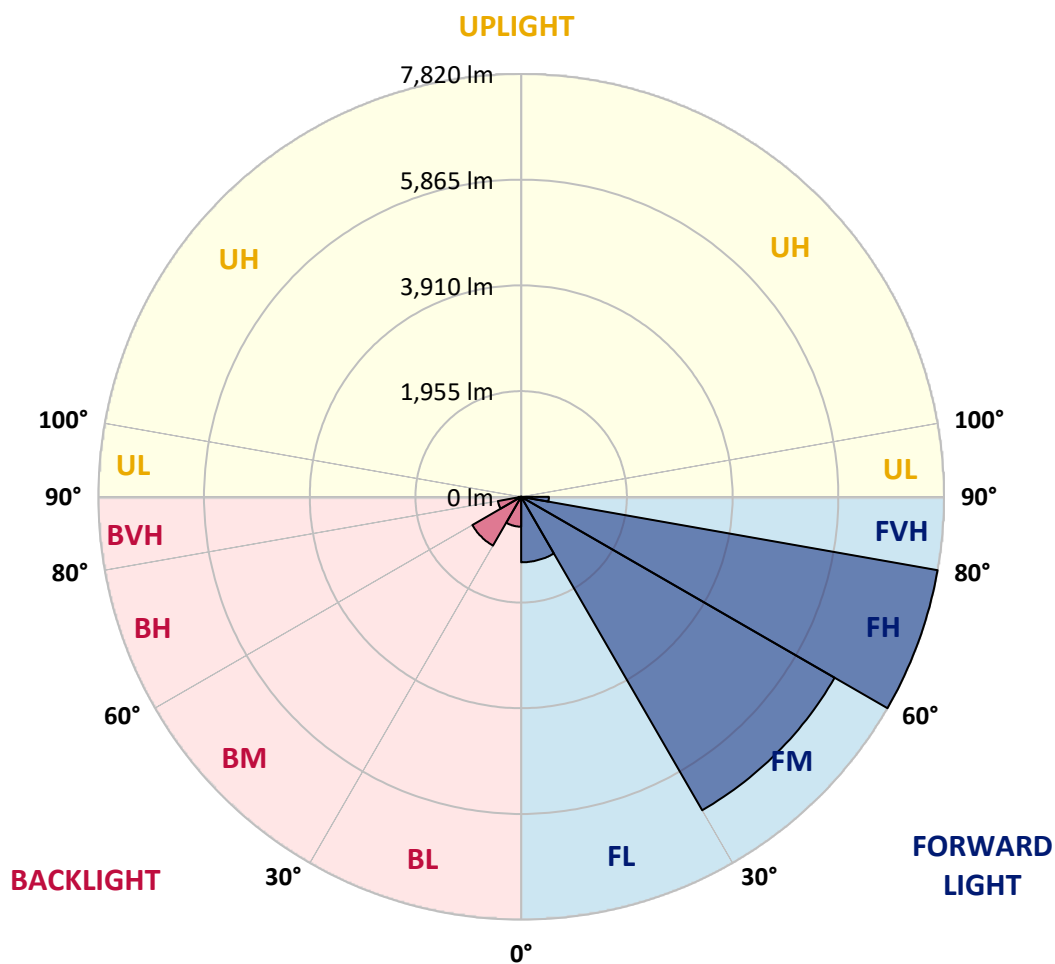
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1211.6	6.6			
FM	(30°-60°)	6693.6	36.5			
FH	(60°-80°)	7819.8	42.7			G4/12000
FVH	(80°-90°)	512.0	2.8			G4/750
BL	(0°-30°)	552.8	3.0	B2/1000		
BM	(30°-60°)	1042.8	5.7	B2/2500		
BH	(60°-80°)	437.4	2.4	B1/500		G1/500
BVH	(80°-90°)	50.7	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°	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3
2.5°	2835.4	2834.4	2827.0	2821.4	2816.7	2814.8	2818.6	2804.6	2792.5	2777.6	2761.7
5°	2814.0	2813.0	2800.9	2789.7	2778.6	2774.8	2773.9	2748.8	2733.8	2711.5	2681.7
7.5°	2790.7	2786.0	2770.2	2751.5	2732.0	2722.6	2713.4	2680.7	2664.0	2641.7	2607.2
10°	2766.5	2760.9	2745.9	2727.3	2708.6	2694.8	2678.9	2647.3	2629.6	2612.7	2572.7
12.5°	2741.4	2736.6	2732.9	2724.5	2711.5	2699.4	2687.2	2660.3	2641.7	2622.1	2575.5
15°	2737.6	2735.8	2744.0	2749.7	2742.2	2734.8	2721.7	2698.4	2678.9	2659.4	2598.7
17.5°	2767.4	2766.5	2787.9	2802.8	2799.0	2786.0	2768.3	2742.2	2726.3	2709.6	2634.1
20°	2832.5	2837.3	2863.3	2883.0	2864.2	2845.6	2816.7	2780.4	2772.0	2764.6	2670.6
22.5°	2955.6	2960.2	2978.9	2986.3	2937.9	2910.7	2870.8	2824.3	2818.6	2824.3	2714.3
25°	3147.4	3142.8	3140.0	3112.0	3023.5	2981.5	2930.4	2881.9	2884.8	2909.9	2775.7
27.5°	3401.7	3376.5	3337.5	3253.6	3112.9	3066.4	3004.0	2959.3	2977.0	3025.4	2867.9
30°	3665.3	3637.3	3547.0	3410.1	3230.4	3179.1	3109.2	3058.9	3105.4	3181.8	2991.0
32.5°	3909.4	3905.6	3773.4	3597.4	3392.4	3347.7	3277.8	3221.0	3296.5	3412.9	3175.4
35°	4175.8	4184.1	4025.7	3814.3	3611.2	3564.7	3514.5	3471.6	3572.1	3732.4	3442.6
37.5°	4460.7	4477.6	4290.3	4051.9	3860.9	3841.3	3811.5	3792.9	3948.5	4170.2	3816.2
40°	4841.8	4825.0	4565.1	4320.1	4167.3	4166.4	4157.1	4179.5	4438.4	4742.1	4295.8
42.5°	5249.7	5200.4	4856.7	4607.9	4503.6	4535.3	4553.9	4645.1	5028.0	5437.0	4880.8
45°	5689.3	5578.6	5159.3	4912.6	4877.2	4944.2	5007.6	5205.9	5722.0	6227.8	5521.8
47.5°	6040.5	5933.5	5472.4	5232.0	5309.4	5410.8	5532.9	5846.8	6498.8	7044.7	6154.1
50°	6317.2	6247.3	5788.1	5604.6	5785.3	5941.8	6141.1	6572.4	7307.4	7840.1	6740.1
52.5°	6585.5	6533.2	6106.7	5986.6	6344.2	6560.3	6831.3	7351.1	8136.3	8622.5	7232.9
55°	6827.6	6790.4	6449.5	6462.4	7001.8	7283.1	7624.0	8237.8	9039.9	9320.3	7650.2
57.5°	7100.5	7053.0	6840.7	7059.6	7846.7	8211.8	8655.2	9234.5	9887.5	9940.6	7967.7
60°	7375.3	7334.3	7274.7	7748.8	8919.7	9303.4	9723.5	10200.5	10747.2	10422.1	7949.1
62.5°	7613.7	7618.4	7723.6	8472.6	9970.4	10414.7	10927.0	11398.4	11525.0	10506.0	7361.4
65°	8018.0	8091.6	8405.6	9497.3	11449.5	12043.8	12672.6	12597.1	11740.1	9722.7	6101.0
67.5°	8498.6	8628.1	9264.3	10862.8	13319.0	14108.0	14351.1	12868.1	10878.5	7903.5	4348.9
70°	8450.2	8628.1	9635.0	11880.9	14859.6	15388.7	14651.0	11646.1	8638.4	5163.1	2310.1
72.5°	7503.8	7758.2	8879.6	11414.2	14374.3	14327.8	12719.1	8682.2	5132.4	2073.4	902.6
75°	5719.1	5976.3	6941.2	9017.5	11361.1	10969.8	9025.0	4796.2	1947.6	823.4	569.1
77.5°	3289.9	3489.3	4234.5	5530.0	7207.7	6806.2	5023.4	2133.1	948.3	573.8	444.3
80°	1836.8	1947.6	2400.4	2805.6	3532.2	3237.8	2247.6	1325.5	707.9	416.4	342.7
82.5°	1452.2	1550.9	1941.2	1769.8	1613.3	1488.4	1291.0	1180.2	565.4	262.7	205.0
85°	1268.6	1362.7	1643.2	1393.5	1101.9	1010.6	1048.8	1161.5	439.7	158.3	175.2
87.5°	1175.5	1301.3	1464.3	1074.0	857.9	760.1	967.8	1273.3	141.6	98.8	70.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3	2781.3
2.5°	2747.9	2732.9	2708.6	2687.2	2653.7	2636.0	2616.4	2602.5	2591.3	2582.1	2596.9
5°	2663.0	2635.2	2583.9	2529.0	2463.7	2412.5	2369.7	2329.6	2301.6	2283.0	2296.1
7.5°	2583.0	2537.3	2457.2	2357.5	2245.8	2150.8	2072.5	2003.6	1956.1	1925.3	1937.5
10°	2537.3	2480.5	2356.6	2200.2	2035.3	1887.1	1764.2	1658.0	1584.4	1542.5	1549.1
12.5°	2526.2	2452.6	2281.2	2066.0	1840.6	1634.7	1461.5	1314.3	1210.9	1156.8	1158.7
15°	2534.5	2440.5	2210.4	1937.5	1652.4	1392.5	1176.4	997.6	877.5	815.9	815.1
17.5°	2548.5	2431.1	2135.8	1798.6	1461.5	1159.7	918.5	743.3	637.1	587.7	584.0
20°	2563.4	2416.3	2052.0	1648.7	1263.0	943.6	719.0	582.2	515.0	488.1	486.2
22.5°	2584.8	2403.1	1965.3	1490.3	1068.3	768.4	591.5	499.4	464.0	449.9	448.1
25°	2619.3	2396.6	1873.1	1325.5	893.3	642.7	515.0	458.3	437.8	428.6	427.5
27.5°	2677.1	2406.0	1786.5	1165.2	750.7	558.0	472.2	437.8	422.9	414.5	413.5
30°	2751.5	2434.9	1695.2	1013.4	639.9	500.2	446.3	423.8	411.7	403.2	403.2
32.5°	2875.3	2483.3	1599.3	882.0	560.7	460.1	426.6	411.7	401.4	395.0	394.0
35°	3057.9	2574.5	1509.9	773.1	503.9	431.2	409.8	398.7	391.2	387.6	387.6
37.5°	3323.4	2718.9	1430.8	694.9	469.5	411.7	394.0	385.5	381.0	381.0	381.0
40°	3680.2	2918.4	1366.5	642.7	449.9	397.7	381.9	375.5	372.6	373.5	373.5
42.5°	4120.8	3177.3	1323.5	606.4	440.6	389.4	373.5	367.8	365.2	364.2	365.2
45°	4622.9	3471.6	1319.0	579.4	431.2	383.7	367.8	362.3	356.7	353.0	353.0
47.5°	5110.9	3770.5	1357.1	570.0	420.9	377.3	363.3	357.8	349.3	340.9	340.9
50°	5542.1	4024.9	1408.4	573.8	417.3	367.8	355.8	353.0	340.1	330.6	329.8
52.5°	5885.0	4220.4	1450.3	585.0	420.9	361.4	346.5	347.5	333.5	323.2	322.4
55°	6159.8	4348.9	1439.2	596.1	429.4	357.8	338.1	340.1	328.8	318.6	318.6
57.5°	6279.9	4301.5	1315.3	586.8	436.0	358.6	331.6	339.0	329.8	320.4	320.4
60°	6022.0	3879.6	1083.3	545.9	427.5	355.8	328.8	342.7	341.9	332.5	331.6
62.5°	5241.3	3124.2	840.2	485.3	398.7	341.9	321.3	341.9	352.2	349.3	348.3
65°	4039.8	2225.3	641.8	420.1	359.6	318.6	301.8	320.4	334.5	338.1	337.2
67.5°	2622.1	1363.7	494.6	358.6	315.8	291.5	276.7	285.0	287.8	287.8	285.9
70°	1289.1	734.0	394.0	301.8	271.1	262.7	254.2	249.6	245.0	241.3	241.3
72.5°	636.2	479.7	324.2	255.2	233.9	230.1	228.3	222.7	218.8	214.2	212.4
75°	470.4	390.3	275.7	215.1	201.1	197.4	201.1	196.5	195.6	191.9	190.0
77.5°	386.6	332.5	237.5	184.4	172.3	165.7	171.4	172.3	173.2	167.7	165.7
80°	313.9	281.4	198.5	152.8	141.6	136.9	140.6	148.1	150.0	141.6	137.8
82.5°	226.3	230.1	160.2	119.2	110.0	106.2	113.6	122.9	124.8	112.7	110.0
85°	190.0	191.9	122.9	84.7	75.5	69.8	82.0	91.2	97.8	85.7	82.9
87.5°	79.2	112.7	70.8	47.5	41.9	36.3	43.8	48.4	58.7	54.0	53.1
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)