

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: P193262

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18875.6 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

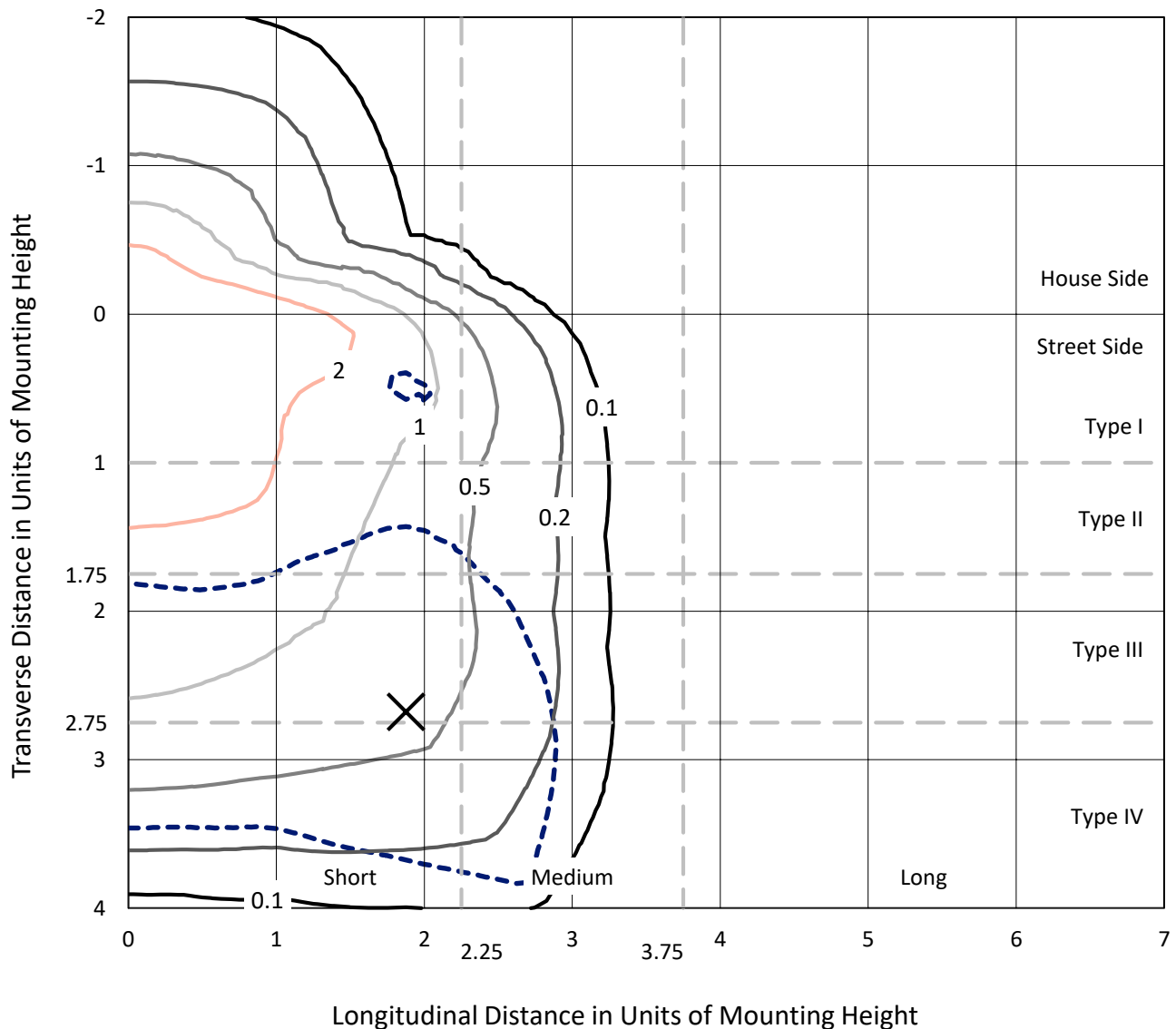


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

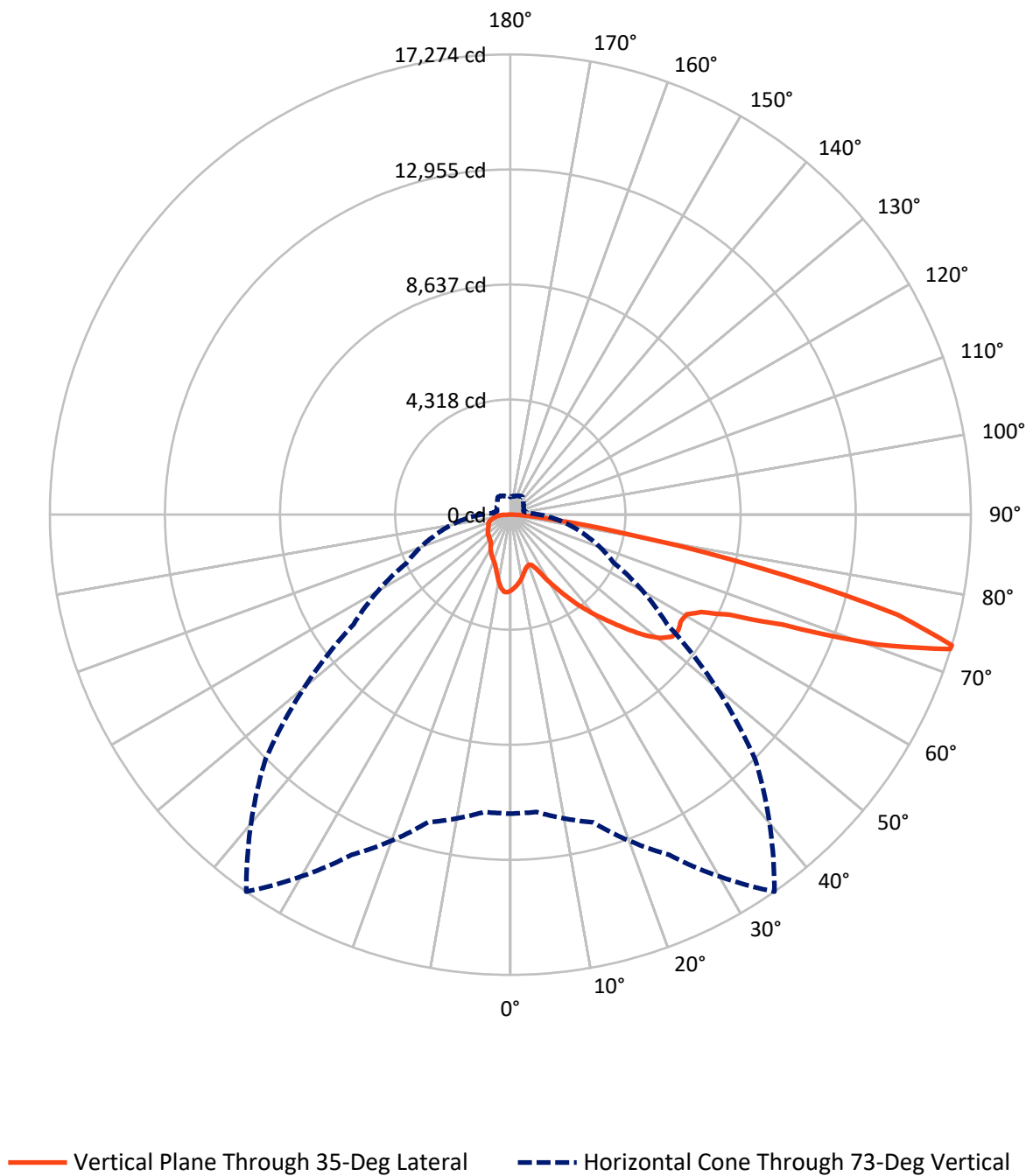


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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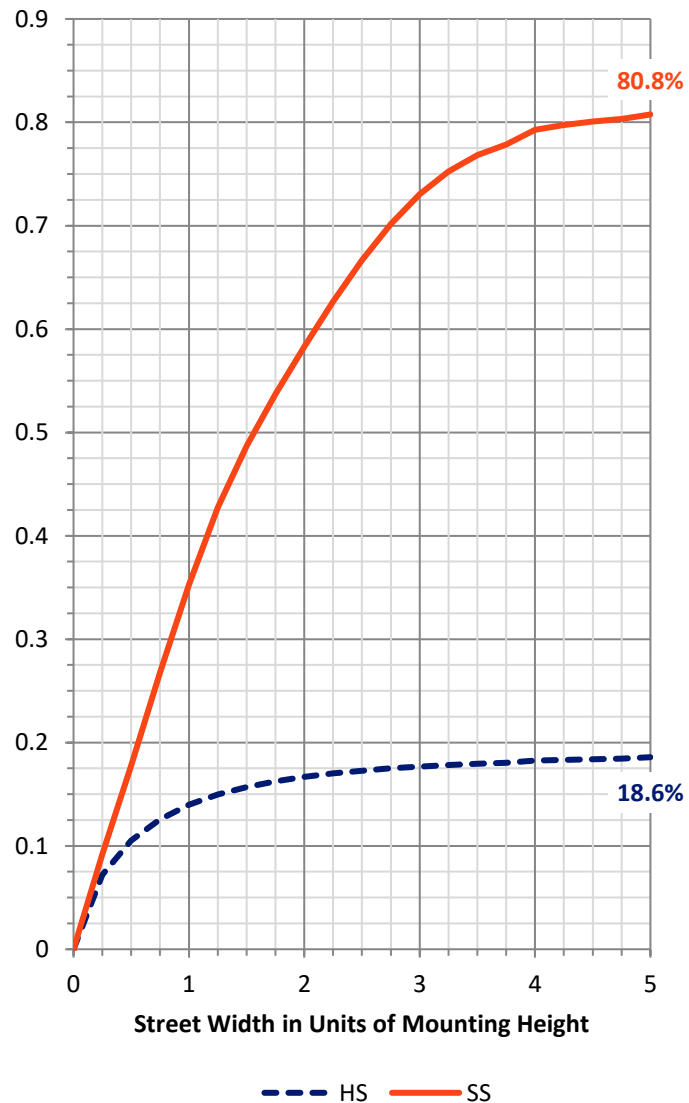
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3600.1	0.0	3600.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15275.5	0.0	15275.5
	% Fixture	80.9	0.0	80.9
Total	Lumens	18875.6	0.0	18875.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.4
10°-20°	643.7	3.4
20°-30°	1040.6	5.5
30°-40°	1745.0	9.2
40°-50°	2689.8	14.3
50°-60°	3608.7	19.1
60°-70°	4807.5	25.5
70°-80°	3666.7	19.4
80°-90°	415.6	2.2
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°	18875.6	100.0
0°-180°	18875.6	100.0

Coefficient of Utilization



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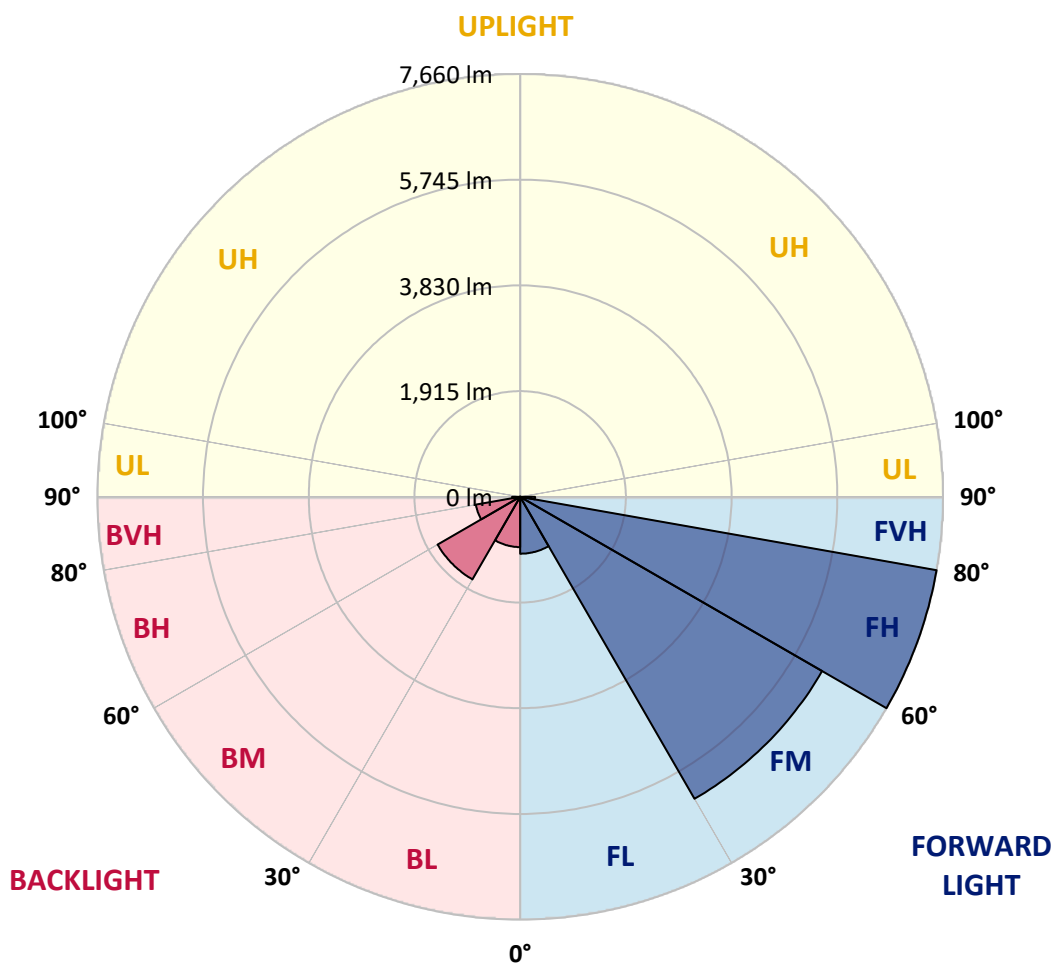
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1031.2	5.5			
FM	(30°-60°)	6315.9	33.5			
FH	(60°-80°)	7659.7	40.6			G4/12000
FVH	(80°-90°)	268.6	1.4			G3/500
BL	(0°-30°)	911.0	4.8	B2/1000		
BM	(30°-60°)	1727.6	9.2	B2/2500		
BH	(60°-80°)	814.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	147.0	0.8			G2/225
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°	45°	55°	65°	75°	85°	90°
0°	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9
2.5°	2736.5	2742.0	2735.7	2743.7	2757.3	2771.9	2781.8	2796.4	2812.7	2835.3	2840.7
5°	2607.8	2616.0	2616.0	2630.4	2656.7	2680.3	2702.1	2725.7	2760.1	2799.1	2814.5
7.5°	2466.4	2470.9	2479.1	2500.8	2538.9	2572.5	2603.3	2641.4	2688.5	2740.1	2767.3
10°	2296.0	2302.3	2314.9	2345.8	2397.4	2443.7	2488.2	2540.8	2600.6	2665.0	2699.4
12.5°	2175.5	2173.6	2179.0	2201.7	2247.0	2303.3	2367.6	2434.8	2508.0	2583.3	2625.1
15°	2134.6	2124.6	2103.8	2098.5	2122.9	2179.0	2253.4	2335.9	2423.8	2514.5	2566.1
17.5°	2160.0	2142.8	2085.6	2044.0	2040.4	2083.0	2161.8	2254.3	2355.8	2466.4	2530.8
20°	2319.6	2278.8	2138.3	2041.3	2007.7	2028.6	2097.4	2195.3	2314.9	2461.8	2544.3
22.5°	2701.2	2641.4	2343.2	2162.8	2049.4	2024.0	2075.7	2179.9	2319.6	2518.1	2623.2
25°	3256.8	3171.6	2694.9	2465.6	2231.6	2096.5	2108.3	2215.3	2383.9	2648.6	2775.5
27.5°	3695.4	3640.2	3154.5	2892.4	2563.4	2292.4	2214.4	2304.2	2515.3	2862.5	2992.2
30°	3956.6	3923.1	3645.7	3376.4	2986.7	2604.2	2417.5	2470.9	2721.1	3158.9	3265.9
32.5°	4259.4	4239.4	4103.4	3856.0	3443.6	3013.9	2739.2	2720.2	2996.7	3515.2	3564.1
35°	4572.9	4566.6	4486.8	4309.1	3933.9	3554.1	3166.3	3037.4	3296.7	3884.9	3854.1
37.5°	4864.9	4854.0	4807.7	4704.3	4447.0	4134.3	3601.3	3362.9	3620.3	4238.5	4101.6
40°	5402.4	5317.1	5158.4	5080.5	4965.4	4622.8	3946.7	3666.5	3955.6	4575.7	4315.5
42.5°	6057.7	5919.0	5623.5	5516.5	5500.2	5008.0	4182.3	3961.0	4293.8	4910.1	4525.8
45°	6573.5	6442.9	6188.2	6053.2	6112.9	5357.0	4418.9	4275.7	4641.9	5261.0	4742.5
47.5°	7123.7	6918.9	6581.6	6622.4	6752.9	5687.0	4660.0	4613.7	5023.4	5653.4	5011.7
50°	7143.6	6986.8	6839.1	7082.8	7286.0	5990.5	4961.8	4968.1	5490.3	6147.5	5369.6
52.5°	6729.4	6695.9	6930.6	7314.1	7606.7	6230.8	5305.3	5334.4	6087.6	6714.8	5763.1
55°	6584.3	6546.3	6817.2	7233.3	7650.4	6429.4	5677.8	5730.4	6810.0	7313.0	6146.5
57.5°	6937.9	6853.5	6871.7	7195.3	7544.3	6646.9	6084.0	6190.1	7595.0	7836.1	6393.1
60°	7925.8	7745.5	7402.9	7394.6	7601.3	6973.2	6553.5	6683.2	8410.8	8086.3	6296.9
62.5°	9311.8	9131.5	8489.7	8071.7	8040.9	7511.6	7130.0	7164.4	8882.1	7747.2	5710.6
65°	10812.0	10650.6	9933.7	9343.6	9058.9	8403.5	7799.9	7379.3	8728.0	6814.6	4684.5
67.5°	12633.0	12459.8	11843.4	11298.7	11025.0	9842.9	8270.3	7173.5	7750.0	5279.1	3367.4
70°	13906.5	13729.7	13486.9	13928.3	14598.1	11919.6	8331.0	6336.8	5788.4	3508.8	2026.8
72.5°	12245.0	12162.5	12605.8	14464.9	17254.9	13179.5	7530.7	4613.7	3361.9	1862.8	1172.9
73°	11219.0	11200.8	11956.8	14088.7	17273.9	12985.6	7179.9	4288.3	2883.4	1647.8	1072.3
75°	5066.1	5212.0	6868.9	10761.2	15007.9	10700.5	5053.3	2460.1	1628.8	1138.5	809.4
77.5°	1217.3	1268.1	2149.1	5110.5	9477.7	6376.8	2289.6	1216.4	1041.5	804.0	591.0
80°	518.4	535.7	827.5	1888.1	4462.3	2567.9	1055.1	814.8	720.6	561.0	414.2
82.5°	288.2	306.4	469.5	856.6	1801.0	875.6	643.5	567.4	474.0	338.0	269.3
85°	163.2	173.1	274.7	478.5	763.1	351.7	385.2	377.1	267.3	174.0	132.3
87.5°	77.0	83.4	132.3	222.2	299.2	137.7	195.8	215.7	167.7	106.1	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9
2.5°	2847.1	2863.4	2882.5	2892.4	2901.5	2912.5	2923.2	2923.2	2925.1	2926.0
5°	2827.2	2860.7	2890.6	2903.3	2906.1	2906.1	2903.3	2888.9	2876.1	2881.6
7.5°	2785.4	2834.4	2859.8	2855.3	2820.8	2780.9	2747.5	2706.6	2685.8	2682.1
10°	2725.7	2781.8	2786.3	2741.1	2655.9	2570.7	2500.0	2431.0	2398.5	2390.3
12.5°	2659.5	2711.2	2682.1	2588.8	2451.9	2327.8	2237.9	2168.1	2137.3	2129.3
15°	2606.0	2641.4	2567.9	2421.0	2248.9	2117.5	2043.1	1991.5	1969.7	1963.3
17.5°	2577.9	2585.2	2451.0	2252.5	2069.4	1959.7	1913.4	1889.0	1880.9	1876.3
20°	2591.5	2540.8	2339.5	2095.7	1922.5	1845.5	1834.6	1828.2	1826.5	1823.7
22.5°	2659.5	2527.1	2237.1	1947.0	1793.8	1760.2	1769.4	1768.5	1766.6	1764.9
25°	2780.9	2538.9	2137.3	1805.6	1686.0	1678.8	1695.0	1695.0	1687.7	1687.7
27.5°	2941.4	2563.4	2025.8	1671.4	1588.1	1588.9	1601.6	1598.0	1589.8	1584.5
30°	3137.2	2578.8	1895.3	1550.9	1496.6	1492.9	1496.6	1481.1	1456.7	1454.8
32.5°	3337.5	2559.7	1744.0	1444.0	1399.5	1391.4	1388.6	1367.0	1338.8	1330.7
35°	3518.8	2490.0	1589.8	1358.7	1307.1	1288.9	1301.6	1294.4	1269.0	1262.7
37.5°	3651.1	2360.3	1451.2	1283.5	1240.8	1236.4	1244.6	1247.3	1217.3	1211.0
40°	3740.0	2184.5	1332.4	1220.1	1228.2	1211.0	1183.9	1164.8	1155.8	1153.0
42.5°	3811.5	2001.4	1232.8	1190.2	1231.0	1181.1	1122.2	1091.4	1107.7	1114.9
45°	3894.0	1822.9	1149.4	1153.0	1217.3	1146.6	1079.6	1049.7	1056.0	1057.8
47.5°	4007.3	1605.3	1059.6	1093.1	1172.1	1123.0	1053.3	1010.6	980.7	967.2
50°	4164.2	1347.8	966.3	1026.1	1127.5	1105.8	1012.5	967.2	911.9	899.2
52.5°	4272.9	1107.7	889.3	969.9	1087.6	1071.4	979.8	920.9	862.9	852.0
55°	4214.0	920.1	822.1	907.3	1035.1	1028.7	952.6	873.8	828.5	819.5
57.5°	3919.4	801.3	770.5	848.4	970.8	992.5	916.3	833.8	801.3	795.0
60°	3357.4	727.0	737.8	808.5	918.3	956.2	880.2	812.2	790.4	785.9
62.5°	2605.1	677.1	713.4	779.6	877.5	930.9	860.2	809.4	801.3	795.9
65°	1866.3	637.2	687.0	750.5	840.3	907.3	853.0	805.8	807.7	803.0
67.5°	1268.1	601.9	655.3	718.0	804.0	886.5	842.9	793.1	815.8	810.3
70°	887.4	567.4	618.2	676.2	758.7	857.4	824.9	774.1	772.3	750.5
72.5°	692.4	522.1	567.4	618.2	700.7	816.7	788.7	731.5	701.6	678.9
73°	660.8	511.3	554.7	605.6	688.0	806.8	778.6	719.7	686.1	665.3
75°	546.7	464.2	504.0	549.2	633.6	759.6	729.7	666.3	623.7	611.0
77.5°	429.6	397.0	435.1	475.9	558.4	690.7	657.2	596.4	572.8	562.0
80°	318.2	329.1	362.5	398.8	484.0	617.4	587.4	526.6	631.7	605.6
82.5°	223.9	249.2	280.1	312.7	406.1	545.6	509.3	446.9	462.2	384.4
85°	132.3	163.2	192.2	220.2	292.9	452.4	420.5	356.1	291.8	278.3
87.5°	77.0	90.6	98.8	127.9	201.2	340.8	296.4	263.8	151.4	102.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)