

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: P522801

Luminaire Tested: **GALN-SA6A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21565 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 182
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: 24 FT

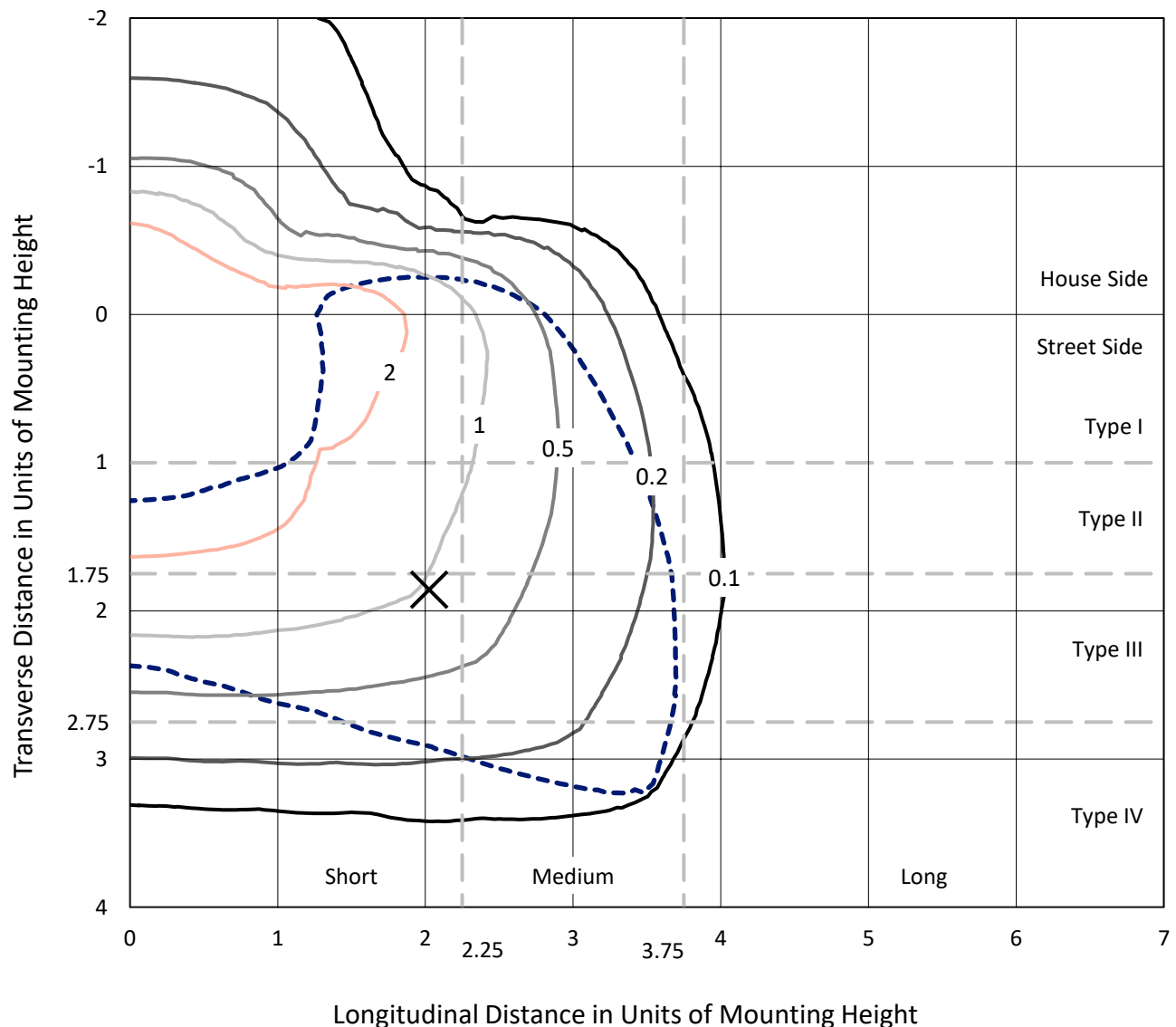


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

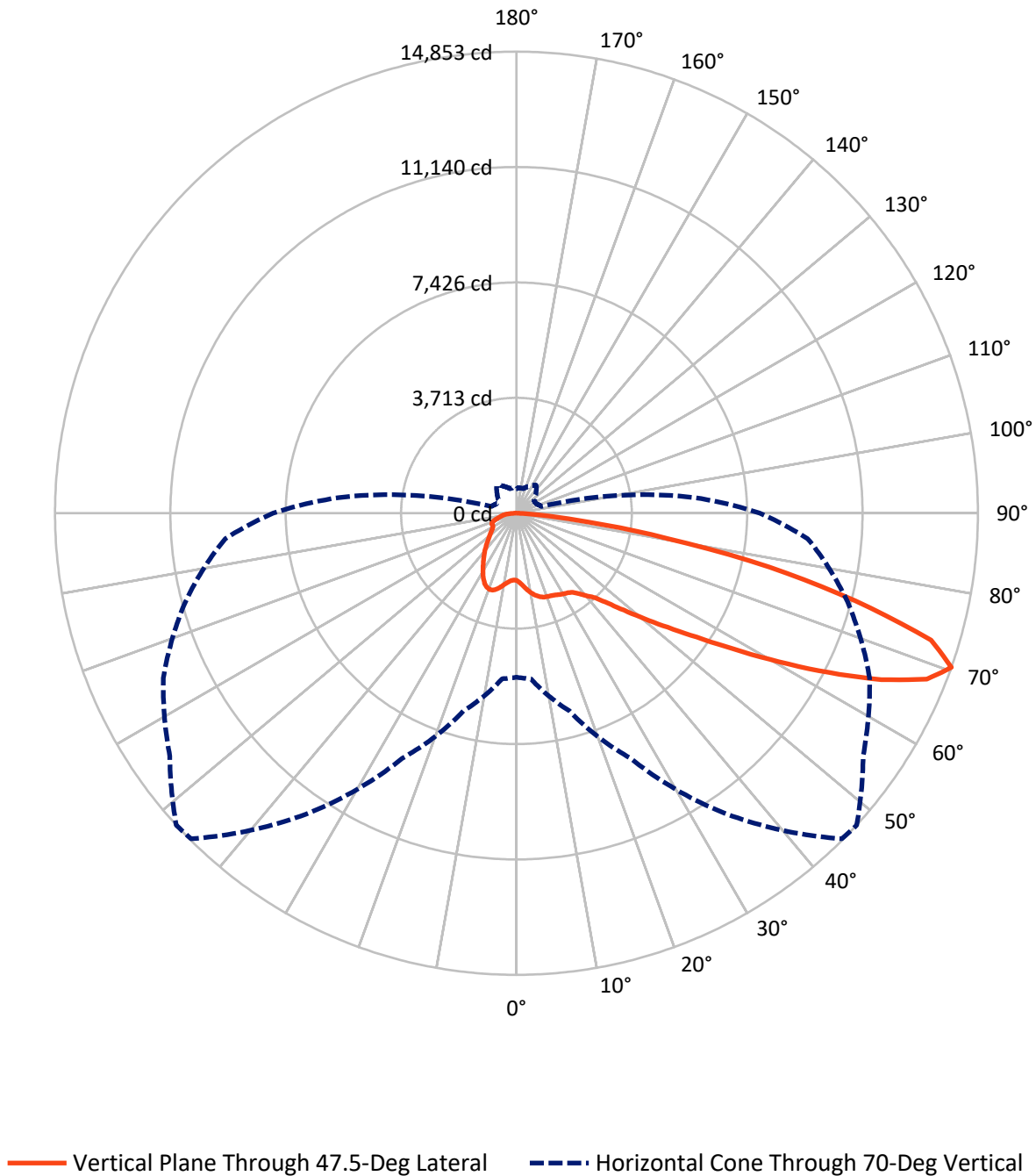


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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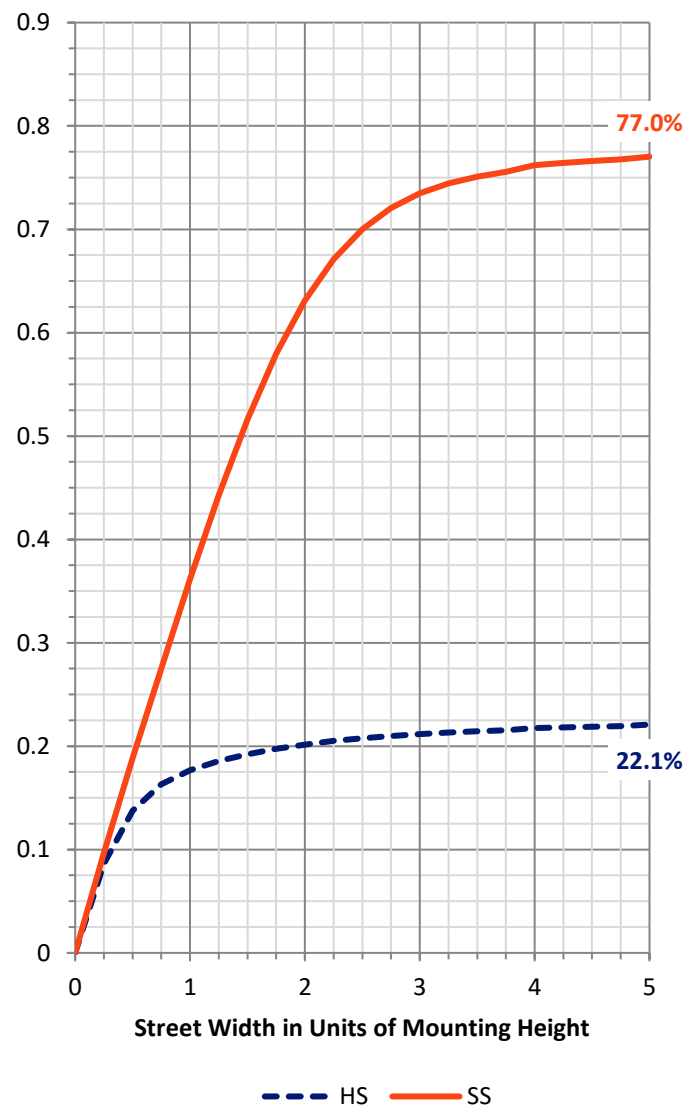
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4882.7	0.0	4882.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16682.3	0.0	16682.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	21565.0	0.0	21565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	1.0
10°-20°	746.0	3.5
20°-30°	1240.6	5.8
30°-40°	1758.4	8.2
40°-50°	2595.8	12.0
50°-60°	4496.0	20.8
60°-70°	6350.7	29.4
70°-80°	3650.7	16.9
80°-90°	503.7	2.3
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°	21565.0	100.0
0°-180°	21565.0	100.0

Coefficient of Utilization



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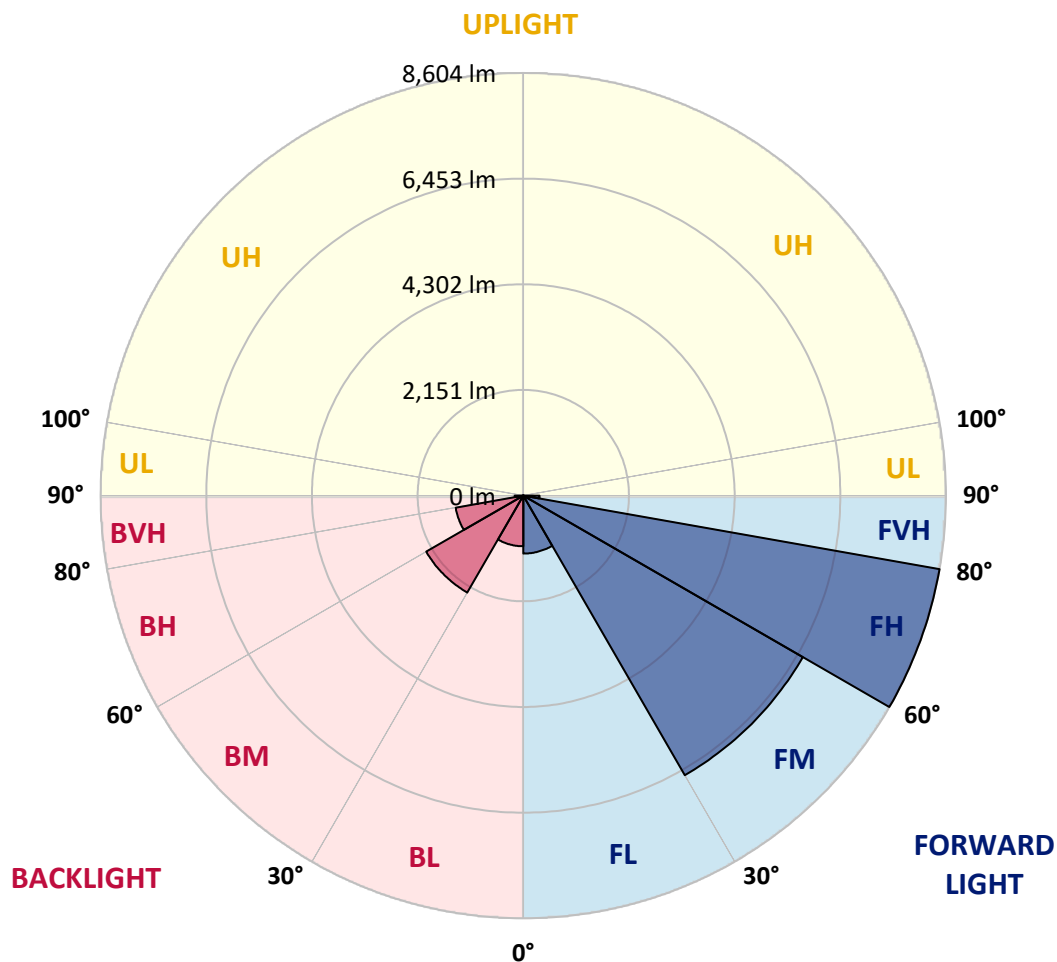
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1179.3	5.5			
FM	(30°-60°)	6570.4	30.5			
FH	(60°-80°)	8603.5	39.9			G4/12000
FVH	(80°-90°)	329.0	1.5			G3/500
BL	(0°-30°)	1030.5	4.8	B3/2500		
BM	(30°-60°)	2279.7	10.6	B2/2500		
BH	(60°-80°)	1397.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	174.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9
2.5°	2304.5	2296.4	2295.3	2278.0	2268.7	2251.4	2244.5	2228.3	2208.7	2189.1	2170.6
5°	2485.7	2485.7	2477.6	2453.4	2415.3	2376.0	2358.7	2327.6	2272.2	2227.2	2189.1
7.5°	2671.5	2673.8	2657.6	2621.8	2567.6	2504.1	2488.0	2441.8	2363.4	2297.6	2241.0
10°	2831.9	2831.9	2809.9	2761.5	2693.4	2624.2	2608.0	2556.1	2468.4	2386.4	2312.6
12.5°	2954.2	2954.2	2925.3	2861.9	2788.0	2725.7	2707.2	2657.6	2575.7	2484.5	2391.0
15°	3033.8	3028.0	2995.7	2924.2	2852.6	2798.4	2785.7	2744.2	2669.2	2576.8	2471.8
17.5°	3037.3	3035.0	3003.8	2943.8	2881.5	2844.6	2836.5	2808.8	2749.9	2662.2	2551.4
20°	2970.3	2975.0	2954.2	2911.5	2881.5	2865.3	2861.9	2852.6	2811.1	2729.2	2618.4
22.5°	2898.8	2906.9	2887.3	2864.2	2861.9	2878.0	2880.3	2882.6	2856.1	2776.5	2674.9
25°	2881.5	2887.3	2867.6	2846.9	2859.6	2902.3	2911.5	2920.7	2900.0	2833.0	2741.9
27.5°	2969.2	2964.6	2926.5	2881.5	2889.6	2947.3	2960.0	2970.3	2960.0	2902.3	2824.9
30°	3217.3	3202.3	3126.1	2994.6	2953.0	2993.4	3006.1	3035.0	3035.0	2992.3	2915.0
32.5°	3632.7	3603.9	3464.2	3205.8	3061.5	3037.3	3050.0	3097.3	3121.5	3088.1	3003.8
35°	4137.0	4107.0	3907.4	3560.0	3260.0	3125.0	3121.5	3174.6	3239.2	3164.2	3054.6
37.5°	4643.6	4612.5	4372.4	3982.4	3549.6	3309.6	3288.8	3307.3	3335.0	3197.7	3125.0
40°	5150.2	5113.3	4903.3	4454.4	3903.9	3554.3	3500.0	3416.9	3405.4	3307.3	3261.1
42.5°	5652.2	5618.7	5512.6	4984.0	4328.6	3793.1	3710.0	3567.0	3610.8	3552.0	3511.6
45°	6158.8	6161.1	6048.0	5578.3	4840.9	4234.0	4122.0	3898.1	4002.0	3980.1	4003.2
47.5°	6607.7	6601.9	6561.5	6155.3	5476.8	4801.7	4657.5	4397.8	4575.5	4656.3	4832.9
50°	7042.7	7039.3	7041.6	6809.6	6215.3	5476.8	5317.5	5045.2	5445.6	5726.0	6042.2
52.5°	7665.9	7685.5	7545.9	7484.7	7113.1	6274.2	6098.8	5817.2	6473.8	6915.8	7533.2
55°	8291.3	8275.2	8165.6	8229.0	8052.5	7218.1	7034.7	6810.8	7618.6	8102.1	9029.9
57.5°	8659.5	8665.2	8777.2	9087.6	9212.2	8395.2	8229.0	8055.9	8905.3	9248.0	10361.6
60°	8990.7	9017.2	9339.2	9925.4	10263.5	9841.1	9693.4	9525.0	10085.8	10222.0	11517.9
62.5°	9094.5	9176.4	9738.4	10615.5	11288.2	11472.9	11289.4	10917.8	11209.8	11156.7	12301.4
65°	8576.4	8688.3	9695.7	10874.0	12203.3	13021.5	12905.0	12214.9	12167.6	11847.9	12429.5
67.5°	7212.4	7324.3	8617.9	10331.6	12581.8	14362.4	14245.9	13161.1	12749.2	11912.5	11460.2
70°	5277.2	5347.5	6584.6	8698.7	11821.4	14812.5	14852.9	13622.7	12541.5	11034.4	9409.6
72.5°	3040.7	3196.5	4063.2	6119.6	9657.7	13674.7	13955.1	12662.6	11228.2	9205.3	6578.8
75°	1307.5	1310.9	1878.7	3375.4	6540.8	10991.7	11262.8	10496.6	8817.6	6365.4	3512.7
77.5°	622.0	633.5	826.2	1507.1	3600.4	7594.3	8326.0	7415.5	5639.5	3058.0	1327.1
80°	403.9	412.0	505.4	747.8	1765.6	4403.6	4913.6	4277.8	2488.0	1092.8	572.4
82.5°	244.6	247.0	338.1	457.0	971.7	1994.1	2350.7	1856.8	1061.7	654.3	337.0
85°	148.9	150.0	205.4	282.7	589.7	688.9	707.4	701.6	623.1	428.1	180.0
87.5°	71.5	73.9	106.2	133.9	231.9	213.5	201.9	234.3	294.3	230.8	77.3
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°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9
2.5°	2162.6	2159.1	2151.0	2147.6	2145.2	2146.4	2145.2	2145.2	2146.4	2146.4	2146.4
5°	2172.9	2167.2	2154.5	2154.5	2161.4	2177.6	2192.6	2204.1	2216.8	2215.6	2215.6
7.5°	2217.9	2207.6	2192.6	2197.2	2214.5	2239.9	2266.4	2291.8	2317.2	2319.5	2318.3
10°	2283.7	2273.3	2257.2	2263.0	2290.7	2328.7	2362.2	2399.1	2426.8	2434.9	2432.6
12.5°	2358.7	2338.0	2324.1	2340.3	2384.1	2434.9	2467.2	2494.9	2514.5	2526.1	2521.4
15°	2434.9	2415.3	2399.1	2432.6	2485.7	2533.0	2549.1	2553.8	2557.2	2568.8	2566.5
17.5°	2508.8	2482.2	2476.4	2520.3	2571.1	2591.8	2582.6	2563.0	2548.0	2557.2	2556.1
20°	2574.5	2553.8	2551.4	2595.3	2614.9	2595.3	2556.1	2521.4	2494.9	2497.2	2496.1
22.5°	2636.8	2620.7	2623.0	2641.5	2610.3	2543.4	2478.7	2431.4	2402.6	2408.4	2411.8
25°	2706.1	2689.9	2695.7	2665.7	2563.0	2446.4	2353.0	2312.6	2301.0	2312.6	2320.7
27.5°	2796.1	2785.7	2782.2	2666.8	2478.7	2303.3	2197.2	2182.2	2192.6	2217.9	2230.6
30°	2893.0	2893.0	2874.6	2647.2	2363.4	2131.4	2039.1	2041.4	2077.2	2112.9	2125.6
32.5°	2986.5	3006.1	2948.4	2594.1	2214.5	1964.1	1893.7	1896.0	1927.1	1971.0	1982.5
35°	3063.8	3120.4	3011.9	2497.2	2039.1	1823.3	1770.2	1739.0	1740.2	1773.7	1782.9
37.5°	3170.0	3275.0	3048.8	2353.0	1852.1	1703.3	1643.3	1589.0	1553.3	1539.4	1539.4
40°	3354.6	3509.3	3058.0	2139.5	1675.6	1589.0	1503.6	1439.0	1369.8	1307.5	1295.9
42.5°	3667.3	3862.4	3039.6	1893.7	1516.3	1463.2	1380.2	1300.5	1204.8	1117.1	1110.1
45°	4221.3	4321.7	2990.0	1638.7	1374.4	1342.1	1261.3	1174.8	1073.2	994.7	989.0
47.5°	5108.7	4966.7	2924.2	1412.5	1245.1	1235.9	1173.6	1073.2	971.7	917.4	911.6
50°	6404.6	5982.2	2915.0	1248.6	1141.3	1145.9	1095.1	1002.8	914.0	868.9	862.0
52.5°	7964.8	7208.9	2976.1	1133.2	1050.1	1067.4	1042.0	956.6	878.2	840.1	833.2
55°	9478.8	8312.1	3013.0	1043.2	964.7	997.0	1000.5	929.0	857.4	819.3	814.7
57.5°	10707.8	9143.0	2849.2	961.3	890.9	940.5	965.9	912.8	847.0	818.2	813.6
60°	11562.9	9535.3	2383.0	888.6	836.6	895.5	953.2	914.0	872.4	875.9	878.2
62.5°	11835.2	9361.1	1787.5	834.3	799.7	880.5	974.0	961.3	918.6	945.1	949.7
65°	11384.0	8641.0	1295.9	791.6	767.4	890.9	1036.3	995.9	902.4	922.0	922.0
67.5°	9873.5	7444.3	1008.6	752.4	730.5	910.5	1098.6	992.4	864.3	887.4	866.6
70°	7832.1	5758.4	840.1	708.5	691.2	881.6	1104.4	956.6	819.3	823.9	784.7
72.5°	5197.5	3786.2	722.4	667.0	631.2	792.8	1057.0	910.5	775.5	748.9	709.7
75°	2546.8	1887.9	630.1	615.1	552.8	690.1	992.4	866.6	728.2	686.6	664.7
77.5°	986.7	803.2	537.8	549.3	481.2	608.1	907.0	804.3	665.8	609.3	592.0
80°	478.9	455.8	440.8	458.1	395.8	518.1	828.6	750.1	608.1	545.8	520.4
82.5°	297.7	281.6	338.1	356.6	304.7	473.1	785.9	703.9	535.4	452.4	431.6
85°	151.2	161.6	226.2	243.5	218.1	376.2	647.4	528.5	386.6	320.8	323.1
87.5°	57.7	77.3	118.9	128.1	116.6	198.5	356.6	308.1	248.1	168.5	155.8
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)