

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: P452710

Luminaire Tested: **GALN-SA3C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 16641 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): 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



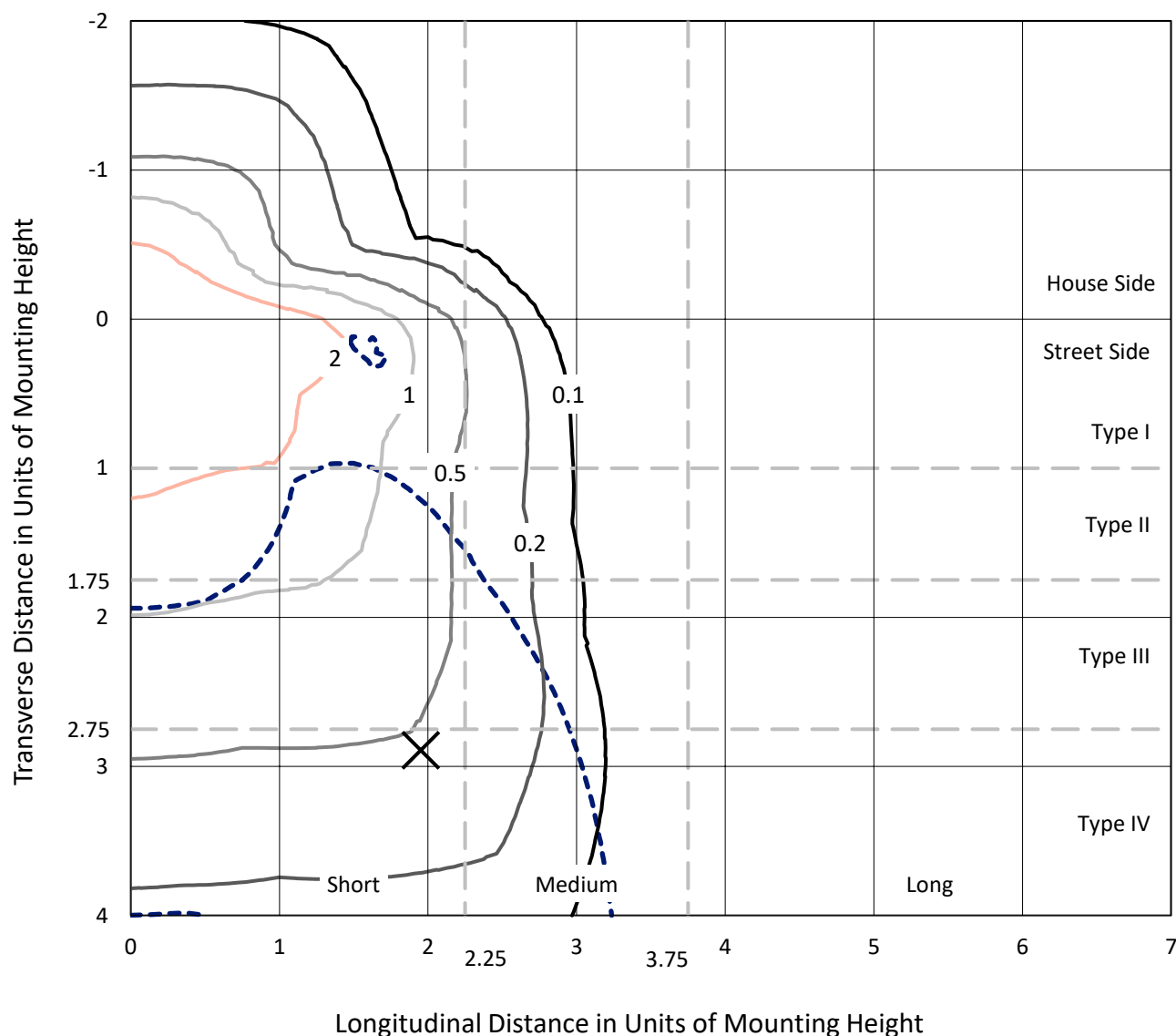
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



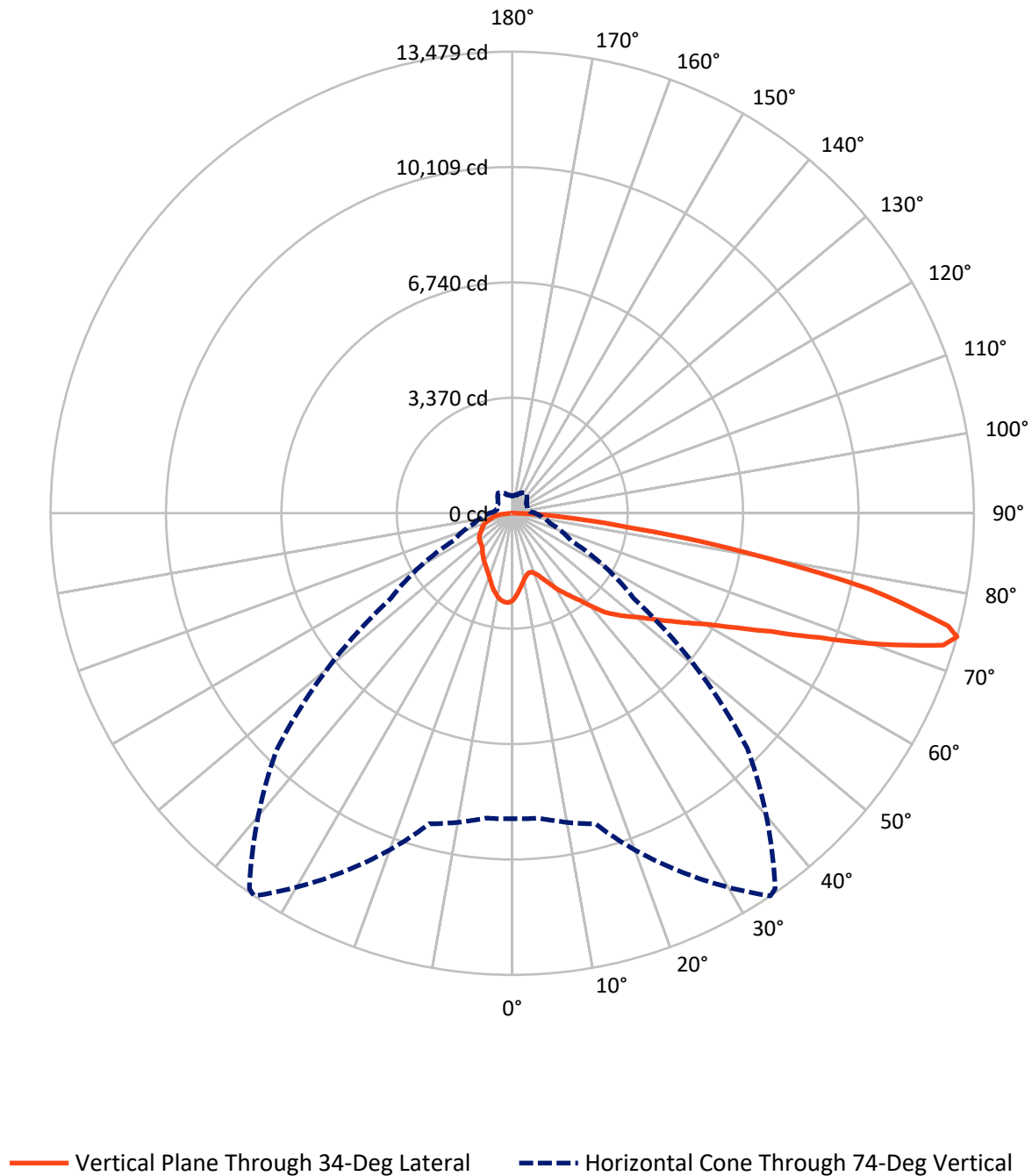
Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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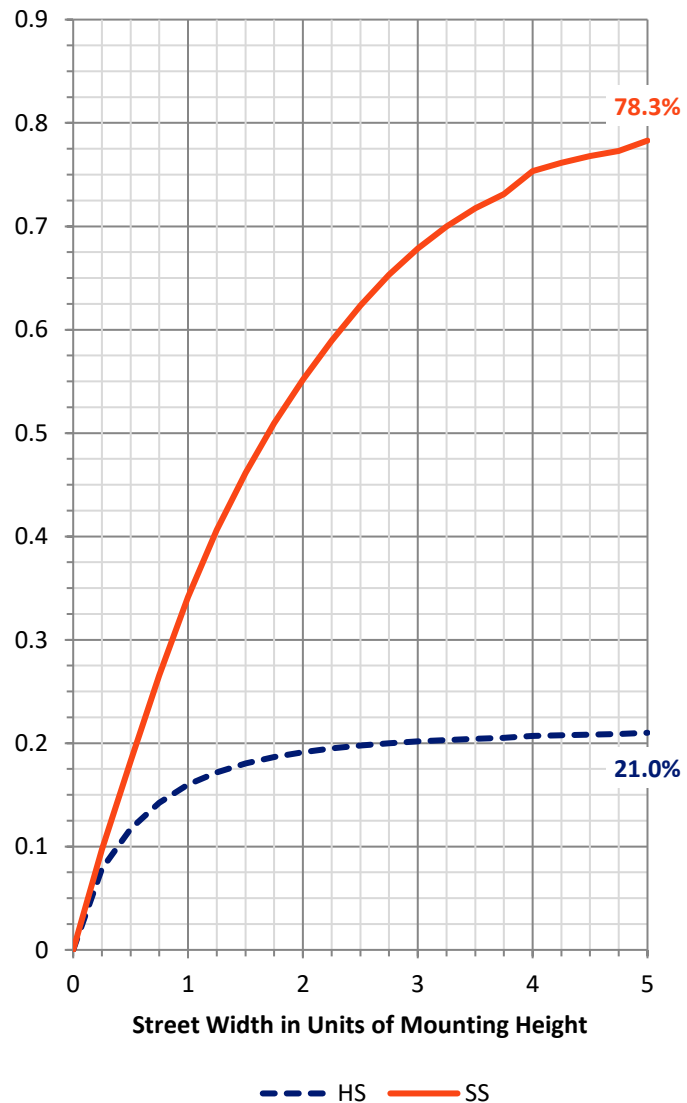
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.3	0.0	3541.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	13099.7	0.0	13099.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	16641.0	0.0	16641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.4
10°-20°	632.5	3.8
20°-30°	1042.9	6.3
30°-40°	1562.1	9.4
40°-50°	2270.9	13.6
50°-60°	3172.0	19.1
60°-70°	3971.1	23.9
70°-80°	3283.8	19.7
80°-90°	474.5	2.9
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°	16641.0	100.0
0°-180°	16641.0	100.0

Coefficient of Utilization



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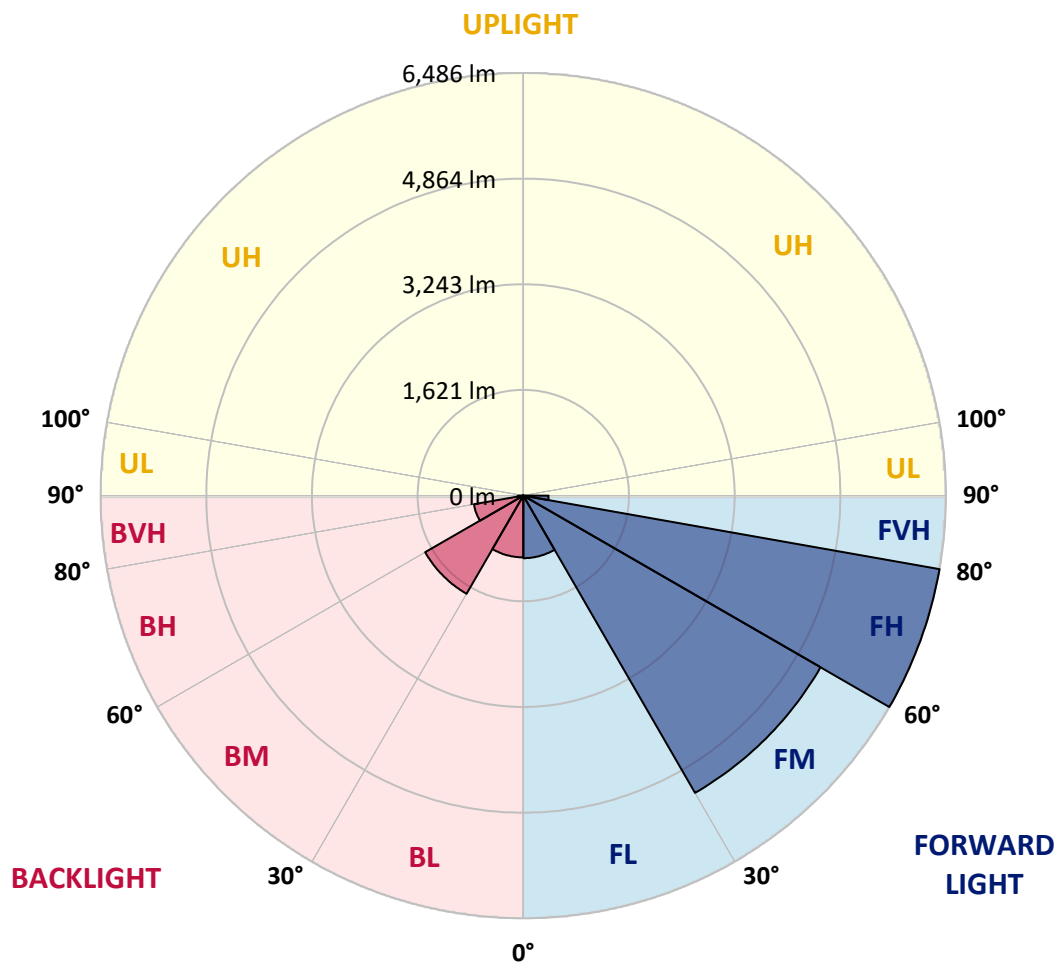
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.3	5.8			
FM	(30°-60°)	5265.9	31.6			
FH	(60°-80°)	6485.8	39.0			G3/7500
FVH	(80°-90°)	388.7	2.3			G3/500
BL	(0°-30°)	947.2	5.7	B2/1000		
BM	(30°-60°)	1739.2	10.5	B2/2500		
BH	(60°-80°)	769.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	85.8	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8
2.5°	2348.1	2360.1	2366.5	2389.6	2395.1	2402.5	2421.8	2447.6	2480.8	2510.3	2536.1
5°	2152.6	2171.1	2182.1	2202.4	2242.1	2245.7	2297.4	2356.4	2423.7	2486.4	2538.0
7.5°	1967.3	1987.6	1996.8	2033.7	2086.3	2094.6	2170.1	2263.3	2375.7	2470.7	2550.0
10°	1828.1	1838.3	1858.5	1886.2	1948.9	1954.4	2053.1	2177.5	2323.2	2463.3	2570.3
12.5°	1752.5	1758.1	1762.7	1792.2	1853.9	1862.2	1965.5	2106.5	2281.7	2468.8	2603.4
15°	1763.6	1765.4	1745.2	1750.7	1800.5	1812.5	1914.8	2059.5	2255.9	2482.7	2653.2
17.5°	1856.7	1850.2	1800.5	1774.7	1809.7	1815.2	1904.6	2041.1	2243.9	2508.5	2704.8
20°	2003.3	1994.1	1908.3	1851.2	1871.5	1876.1	1937.8	2054.9	2255.9	2550.9	2785.1
22.5°	2185.8	2182.1	2052.1	1983.0	1982.1	1982.1	2014.3	2104.7	2291.8	2609.0	2868.9
25°	2441.2	2421.8	2252.2	2162.8	2137.9	2136.0	2132.4	2186.7	2337.9	2670.7	2968.5
27.5°	2703.0	2669.8	2518.6	2381.3	2327.8	2321.3	2297.4	2302.9	2396.9	2740.8	3081.9
30°	2938.1	2916.9	2774.9	2622.8	2559.2	2544.4	2478.1	2447.6	2495.6	2867.1	3262.6
32.5°	3117.9	3105.0	2994.3	2856.0	2762.0	2759.2	2662.4	2637.6	2649.5	3020.1	3469.1
35°	3263.5	3268.1	3211.9	3092.0	2984.2	2968.5	2904.0	2872.6	2837.6	3241.4	3729.1
37.5°	3462.6	3472.8	3469.1	3365.9	3234.0	3237.7	3223.0	3171.3	3078.2	3488.5	4017.6
40°	3682.1	3689.4	3688.5	3648.9	3579.7	3583.4	3577.9	3518.9	3379.7	3802.8	4338.5
42.5°	3985.4	3950.3	3859.1	3898.7	3939.3	3956.8	3994.6	3938.3	3747.5	4138.4	4639.9
45°	4324.6	4258.2	4051.7	4070.2	4220.5	4253.6	4462.0	4384.5	4146.7	4523.8	4994.8
47.5°	4538.5	4473.1	4298.8	4295.1	4494.3	4526.5	4895.3	4866.7	4509.9	4939.5	5428.1
50°	4729.3	4720.1	4523.8	4570.8	4765.3	4813.2	5367.3	5340.6	4872.2	5430.0	5900.1
52.5°	5012.4	4937.7	4781.0	4877.8	5135.0	5197.7	5835.6	5757.3	5205.0	5863.3	6358.3
55°	5139.6	5122.1	5112.8	5196.7	5549.8	5595.0	6291.0	6111.3	5489.0	6230.2	6706.8
57.5°	5479.8	5447.5	5538.8	5595.9	6038.4	6107.6	6766.7	6480.9	5737.9	6521.5	6876.4
60°	5920.4	5902.9	5986.8	6090.1	6584.2	6689.3	7308.8	6796.2	5937.9	6668.1	6783.3
62.5°	6578.7	6576.8	6561.1	6782.4	7357.7	7454.5	7931.1	7103.2	5969.3	6558.4	6302.1
65°	7522.7	7489.5	7353.1	7594.6	8320.1	8433.5	8579.2	7274.7	5780.3	5995.1	5306.4
67.5°	8510.0	8508.2	8397.6	8711.0	9702.1	9819.1	9389.5	7236.9	5255.7	4856.6	3768.7
70°	9328.7	9289.0	9430.1	10265.3	11467.5	11603.0	10098.5	6791.6	4186.3	3207.3	2239.3
72.5°	9525.1	9526.9	9820.1	11463.8	13162.9	13184.1	10353.8	5504.7	2801.6	1769.1	1120.1
74°	8920.3	8936.0	9390.5	11523.7	13479.1	13383.2	9701.1	4326.5	1894.5	1155.1	807.6
75°	8142.2	8043.6	8700.9	11124.5	13150.9	13047.6	8936.9	3471.9	1445.5	922.8	707.1
77.5°	4353.2	4453.7	5467.8	8301.7	10683.9	10565.0	6059.6	1664.9	780.8	642.6	508.9
80°	1549.7	1709.2	2402.5	4344.0	6849.7	6886.6	2892.0	763.3	549.5	473.9	359.5
82.5°	632.4	649.9	1031.6	1927.7	3478.3	3511.5	1181.0	453.6	392.7	326.4	214.8
85°	247.1	254.4	456.3	866.6	1484.3	1581.1	408.4	239.7	241.5	187.1	109.7
87.5°	83.0	94.0	187.1	288.6	504.3	494.1	118.9	71.0	86.7	81.1	34.1
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°	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8	2540.8
2.5°	2549.0	2566.6	2578.5	2591.5	2603.4	2607.1	2604.4	2612.7	2613.6	2614.5	2615.4
5°	2563.8	2587.8	2610.8	2623.7	2629.3	2624.6	2609.0	2600.7	2593.3	2587.8	2589.6
7.5°	2584.1	2618.2	2639.4	2644.9	2630.2	2609.0	2570.3	2539.8	2520.5	2507.6	2506.6
10°	2615.4	2648.6	2666.1	2650.5	2609.9	2558.3	2497.4	2440.3	2396.9	2384.0	2383.1
12.5°	2655.1	2692.9	2691.9	2645.8	2574.9	2482.7	2384.0	2317.7	2258.7	2229.1	2241.1
15°	2706.7	2735.3	2708.5	2625.6	2513.1	2386.8	2265.1	2174.8	2108.4	2077.0	2078.9
17.5°	2766.6	2791.5	2720.5	2589.6	2426.4	2264.2	2123.1	2037.4	1984.8	1961.8	1960.0
20°	2841.3	2848.7	2720.5	2526.9	2314.9	2121.3	1986.7	1926.8	1897.3	1885.3	1889.0
22.5°	2921.5	2906.7	2705.8	2438.4	2168.3	1971.9	1881.6	1854.9	1840.1	1838.3	1840.1
25°	3011.8	2970.4	2675.3	2318.6	2015.3	1842.9	1790.3	1794.9	1797.7	1797.7	1804.2
27.5°	3122.5	3039.5	2624.6	2167.4	1836.4	1723.0	1708.3	1740.5	1755.3	1758.1	1762.7
30°	3268.1	3115.1	2540.8	1978.4	1684.3	1615.2	1641.0	1684.3	1700.9	1711.0	1709.2
32.5°	3441.4	3198.1	2427.4	1789.4	1561.7	1539.6	1570.9	1615.2	1633.6	1639.1	1631.8
35°	3645.2	3292.1	2278.0	1612.4	1454.8	1467.7	1504.5	1518.4	1535.0	1535.0	1538.6
37.5°	3864.6	3367.7	2095.5	1450.1	1371.8	1418.8	1445.5	1432.6	1425.3	1416.0	1420.6
40°	4087.7	3423.9	1858.5	1289.7	1288.8	1368.1	1375.5	1338.6	1309.1	1299.9	1295.3
42.5°	4282.2	3459.0	1644.7	1165.3	1210.5	1318.3	1323.8	1264.8	1217.8	1190.2	1181.0
45°	4511.8	3499.5	1435.4	1062.0	1137.6	1278.7	1292.5	1213.2	1144.1	1086.0	1071.2
47.5°	4826.1	3591.7	1270.4	981.8	1085.1	1253.8	1273.1	1170.8	1079.5	1003.9	992.0
50°	5181.1	3718.0	1142.2	927.4	1044.5	1231.7	1255.6	1127.5	1019.6	935.7	926.5
52.5°	5506.5	3786.2	1031.6	878.6	1004.9	1191.1	1232.6	1096.1	960.6	867.5	859.2
55°	5684.4	3675.6	922.8	830.6	950.5	1138.5	1200.3	1052.8	903.5	831.6	819.6
57.5°	5708.4	3447.0	824.2	779.0	893.3	1074.0	1140.4	1000.3	866.6	806.7	796.5
60°	5523.1	3105.9	747.7	736.6	835.2	1001.2	1073.1	954.2	828.8	779.0	768.9
62.5°	5062.1	2735.3	694.2	697.9	776.2	924.7	1023.3	909.9	792.8	748.6	739.4
65°	4269.3	2257.7	642.6	658.2	723.7	864.7	978.1	873.0	756.9	725.5	717.2
67.5°	2965.7	1629.9	600.2	616.7	673.9	803.9	925.6	833.4	716.3	699.7	686.8
70°	1641.9	1003.0	550.4	569.7	622.3	735.7	866.6	773.5	657.3	649.9	631.5
72.5°	862.9	638.9	494.1	515.3	552.2	648.1	776.2	708.0	599.2	567.9	543.9
74°	673.9	523.6	456.3	478.5	503.4	596.5	722.8	661.0	557.7	520.9	502.4
75°	587.2	466.5	424.1	452.7	474.8	561.4	681.3	627.8	534.7	499.7	483.1
77.5°	414.9	349.4	346.6	380.7	392.7	492.3	614.0	571.6	476.6	439.7	424.1
80°	291.3	261.8	274.7	295.9	312.5	435.1	569.7	494.1	390.9	347.6	342.0
82.5°	189.9	171.5	196.4	215.7	221.3	320.8	460.0	375.2	284.9	231.4	214.8
85°	87.6	85.7	112.5	109.7	108.8	156.7	272.9	219.4	164.1	122.6	115.2
87.5°	22.1	21.2	27.7	23.0	27.7	24.0	24.9	6.5	0.9	0.0	0.0
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)