

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: P452231

Luminaire Tested: **GALN-SA3A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 10619 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 93
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

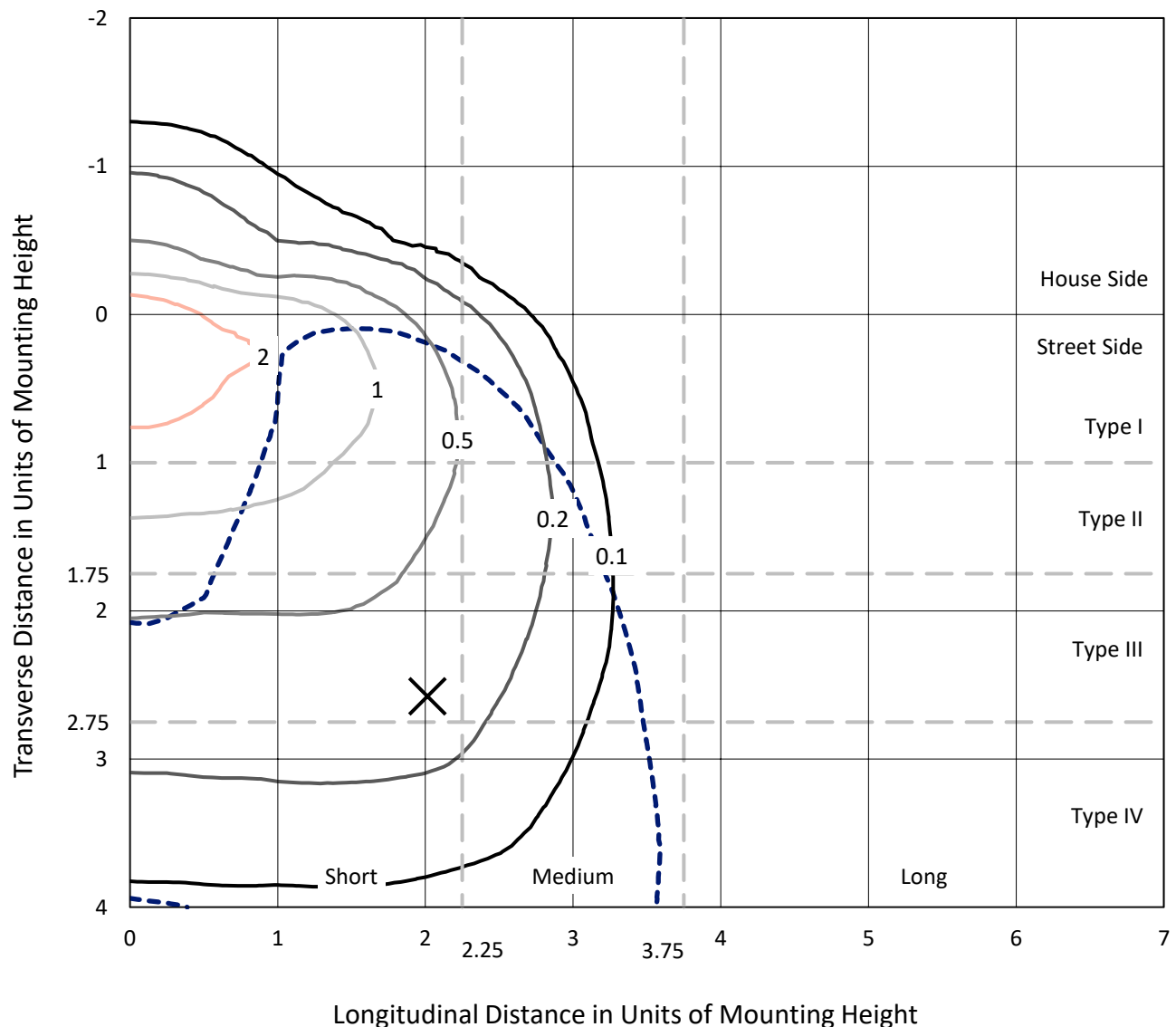


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

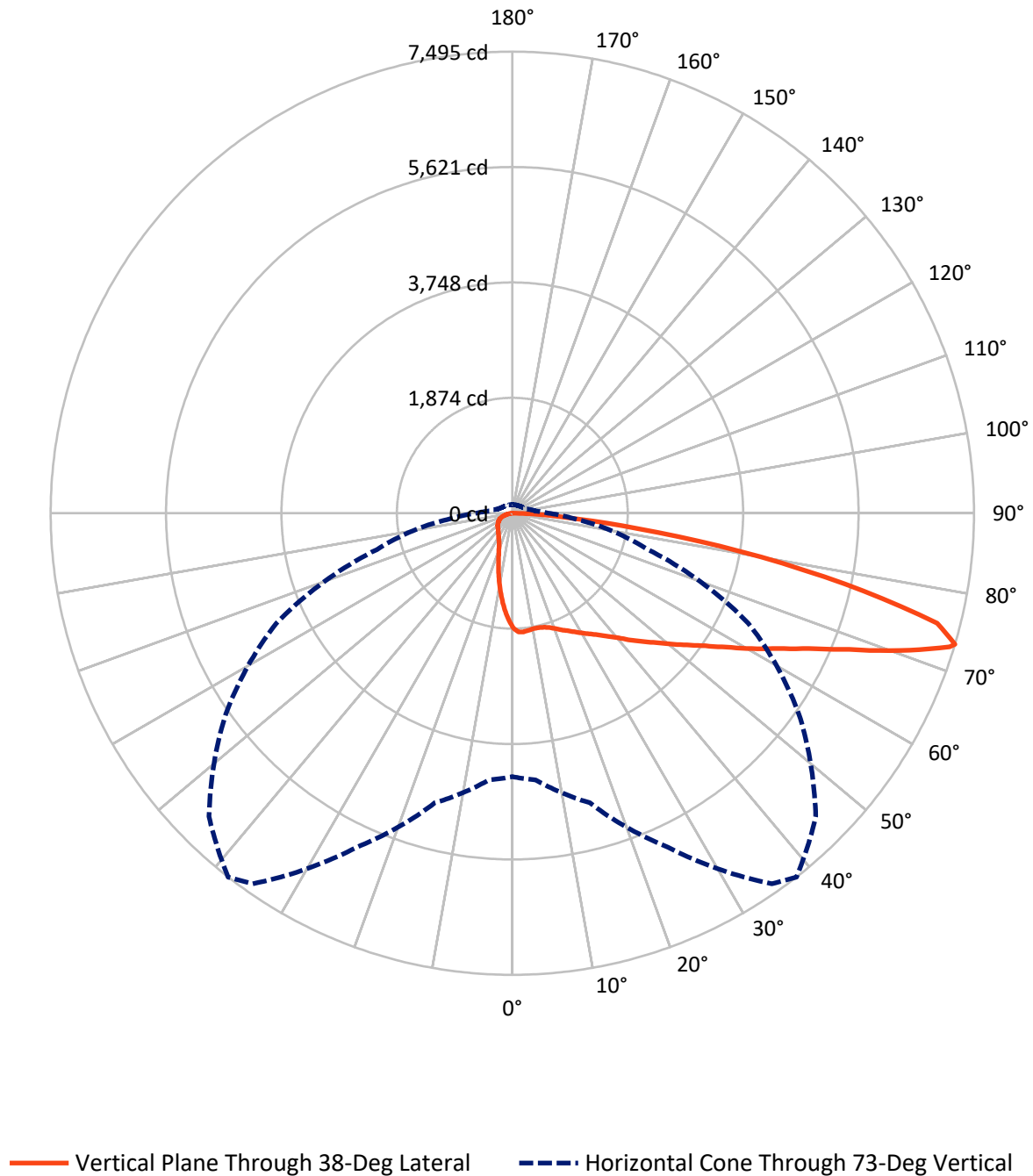


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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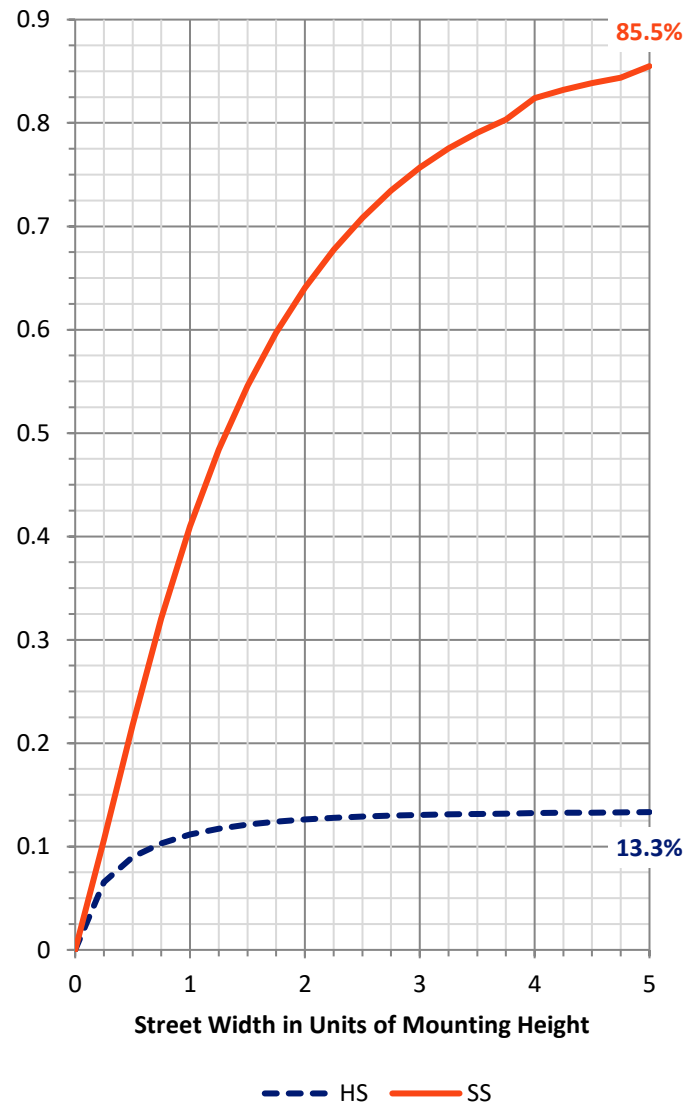
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1427.5	0.0	1427.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9191.5	0.0	9191.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	10619.0	0.0	10619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.5
10°-20°	417.6	3.9
20°-30°	650.3	6.1
30°-40°	953.8	9.0
40°-50°	1414.8	13.3
50°-60°	2004.5	18.9
60°-70°	2542.8	23.9
70°-80°	2116.7	19.9
80°-90°	355.6	3.3
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°	10619.0	100.0
0°-180°	10619.0	100.0

Coefficient of Utilization



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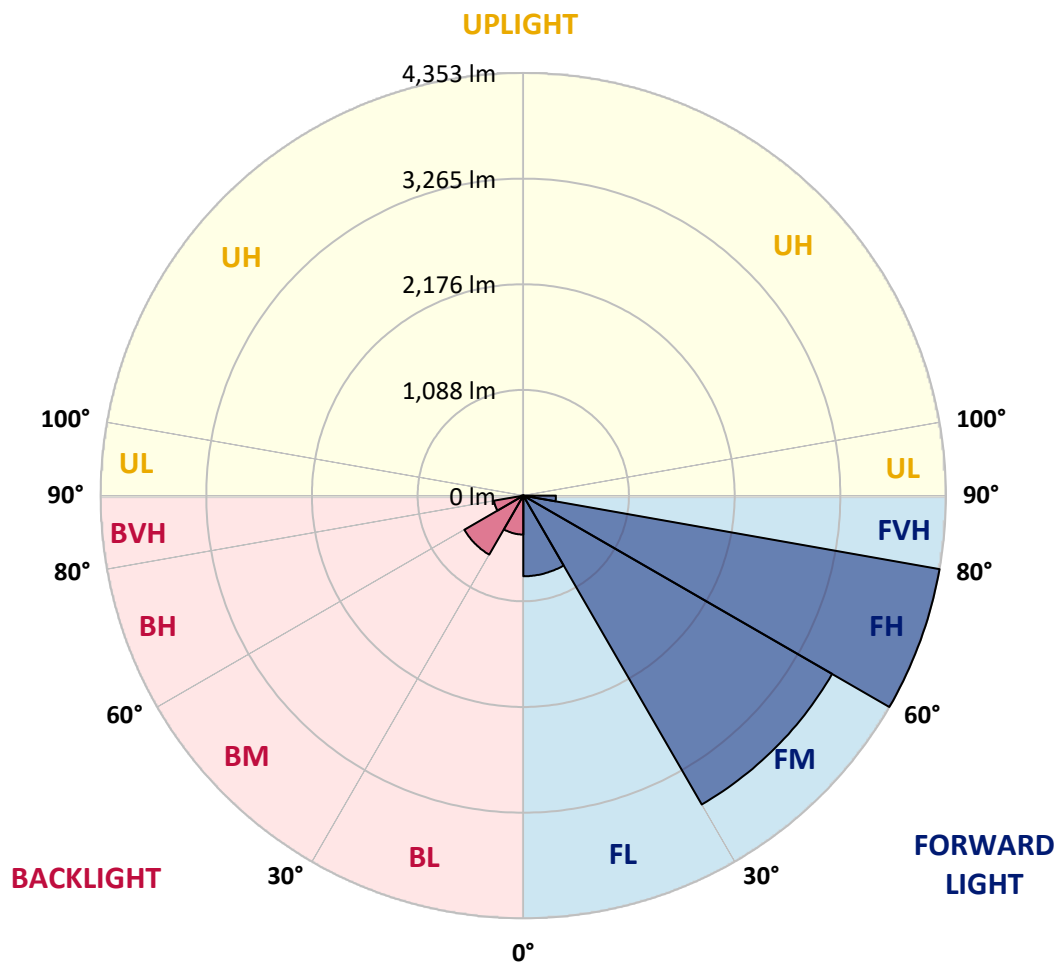
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.1	7.8			
FM	(30°-60°)	3672.3	34.6			
FH	(60°-80°)	4352.7	41.0			G2/5000
FVH	(80°-90°)	336.4	3.2			G3/500
BL	(0°-30°)	400.6	3.8	B1/500		
BM	(30°-60°)	700.8	6.6	B1/1000		
BH	(60°-80°)	306.8	2.9	B1/500		G1/500
BVH	(80°-90°)	19.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6
2.5°	1940.5	1950.1	1945.3	1938.7	1934.5	1930.3	1924.3	1907.0	1893.2	1878.2	1854.8
5°	1954.9	1960.9	1956.7	1948.3	1938.7	1934.5	1923.1	1900.4	1878.2	1853.0	1818.2
7.5°	1946.5	1948.9	1944.1	1933.9	1925.5	1917.7	1904.6	1879.4	1852.4	1821.8	1776.2
10°	1916.6	1925.5	1925.5	1917.2	1908.8	1904.6	1891.4	1867.4	1842.8	1808.0	1754.0
12.5°	1892.0	1901.6	1909.4	1907.0	1906.4	1906.4	1896.2	1878.2	1849.4	1816.4	1752.2
15°	1875.2	1886.6	1903.4	1913.0	1918.9	1920.7	1916.6	1901.0	1871.6	1833.2	1759.4
17.5°	1871.6	1885.4	1916.0	1936.9	1952.5	1951.9	1950.7	1929.1	1896.8	1857.2	1768.4
20°	1887.8	1905.8	1948.3	1981.3	2004.1	1999.9	1993.3	1965.1	1927.3	1883.0	1776.8
22.5°	1936.3	1954.9	2001.7	2037.7	2059.9	2059.9	2040.1	2002.9	1962.7	1913.0	1788.2
25°	2005.9	2026.3	2076.1	2112.6	2122.8	2115.0	2095.3	2050.3	2004.1	1956.1	1812.2
27.5°	2091.1	2115.6	2161.8	2192.4	2189.4	2183.4	2163.0	2105.4	2059.3	2015.5	1853.0
30°	2197.2	2215.2	2263.2	2270.4	2259.6	2258.4	2229.6	2172.0	2128.8	2095.3	1911.2
32.5°	2297.3	2313.5	2351.9	2354.9	2335.7	2338.1	2311.1	2258.4	2233.8	2221.8	2008.9
35°	2403.5	2411.9	2444.9	2441.3	2428.7	2426.9	2416.1	2365.7	2373.5	2395.1	2147.4
37.5°	2492.2	2509.0	2527.6	2530.6	2530.0	2536.0	2543.2	2519.2	2564.2	2632.0	2329.1
40°	2573.8	2588.2	2615.8	2625.4	2648.7	2660.7	2685.3	2685.9	2789.7	2901.2	2552.8
42.5°	2629.0	2653.5	2705.1	2722.5	2779.5	2815.5	2852.0	2891.0	3041.5	3184.9	2816.7
45°	2676.9	2709.3	2795.1	2849.0	2926.4	2970.2	3047.5	3129.1	3345.6	3533.3	3084.7
47.5°	2749.5	2778.3	2876.6	2972.0	3088.9	3139.3	3255.0	3376.8	3659.8	3865.5	3341.4
50°	2850.2	2867.6	2967.8	3123.1	3272.4	3337.2	3490.1	3665.8	3995.6	4193.5	3566.8
52.5°	2979.2	2986.4	3066.1	3273.0	3469.7	3550.1	3752.7	3957.8	4289.5	4478.3	3745.5
55°	3131.5	3119.5	3181.9	3431.9	3695.2	3800.1	4017.8	4253.5	4619.9	4708.6	3875.7
57.5°	3282.0	3263.4	3313.2	3625.0	3973.4	4100.0	4353.6	4558.1	4914.9	4923.9	3966.8
60°	3441.5	3427.7	3487.1	3851.7	4314.6	4464.6	4699.0	4874.1	5200.4	5073.8	3981.2
62.5°	3605.2	3583.0	3667.6	4106.6	4699.0	4835.2	5062.4	5209.9	5480.4	5129.6	3842.7
65°	3764.1	3753.9	3884.7	4409.4	5136.8	5291.5	5512.2	5612.3	5704.7	5045.6	3499.1
67.5°	3933.2	3953.6	4162.3	4813.6	5707.7	5902.0	6140.0	6045.9	5768.8	4648.1	2946.8
70°	4191.1	4204.3	4526.9	5343.1	6443.5	6677.9	6793.1	6200.0	5459.4	3893.1	2215.2
72.5°	4302.0	4360.2	4852.5	5899.0	7279.4	7422.7	7012.6	5856.4	4547.9	2644.6	1164.0
73°	4277.5	4347.0	4867.5	5983.5	7344.8	7495.3	6965.8	5679.5	4227.7	2277.6	997.9
75°	3971.0	4056.8	4672.6	5912.8	7217.6	7127.7	6213.8	4840.5	2856.8	1035.6	454.6
77.5°	3133.3	3157.9	3702.4	4774.6	5683.7	5517.0	4650.5	3025.3	1167.0	385.0	257.9
80°	1571.7	1662.3	2086.9	2735.1	3800.7	3746.1	2935.4	1430.8	486.3	226.1	170.9
82.5°	756.2	820.4	1016.4	1333.7	2100.0	2050.3	1453.6	782.0	308.8	131.9	100.7
85°	486.9	534.9	647.0	636.3	863.5	824.5	653.0	591.9	182.9	69.0	70.2
87.5°	321.4	352.0	422.2	337.6	314.2	284.2	288.4	333.4	36.0	26.4	9.6
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°	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6	1865.6
2.5°	1845.2	1837.4	1811.6	1786.4	1762.4	1739.6	1724.7	1704.9	1691.7	1695.3	1700.7
5°	1799.0	1781.6	1736.0	1691.7	1649.7	1599.9	1559.7	1527.4	1502.8	1493.8	1492.0
7.5°	1750.4	1721.1	1655.7	1579.5	1508.2	1446.4	1375.0	1339.7	1298.3	1283.9	1279.1
10°	1721.1	1681.5	1589.7	1483.6	1376.2	1273.7	1196.3	1133.4	1076.4	1065.6	1060.2
12.5°	1712.7	1660.5	1537.0	1400.2	1257.5	1131.6	1017.0	934.3	879.1	866.5	847.9
15°	1707.9	1643.1	1487.8	1316.3	1135.2	981.7	861.1	764.6	714.2	680.6	681.2
17.5°	1703.7	1623.3	1432.6	1224.5	1029.6	852.7	719.6	632.7	586.5	568.5	566.7
20°	1697.7	1599.9	1369.1	1128.0	909.1	735.2	614.7	549.9	518.7	503.7	503.1
22.5°	1695.3	1577.1	1306.7	1029.6	802.4	644.6	545.1	499.5	479.7	469.5	469.5
25°	1701.3	1560.9	1241.3	936.1	707.6	567.3	497.1	465.9	454.6	449.2	447.4
27.5°	1719.9	1553.7	1176.6	842.5	620.7	514.5	464.7	443.2	434.8	430.6	431.2
30°	1755.2	1553.1	1113.0	750.2	555.9	474.3	439.0	424.0	417.4	415.0	414.4
32.5°	1812.2	1566.3	1050.6	674.0	501.3	440.8	415.0	404.2	401.2	399.4	398.8
35°	1908.8	1603.5	988.9	604.5	459.3	410.8	392.2	386.8	382.6	384.4	385.0
37.5°	2038.9	1667.7	930.1	549.9	427.6	388.6	373.0	368.2	365.8	367.6	369.4
40°	2213.4	1760.0	880.9	506.1	404.8	370.0	356.2	352.0	349.6	352.6	353.2
42.5°	2405.9	1866.8	840.1	471.9	386.2	354.4	341.2	336.4	334.6	336.4	337.0
45°	2603.8	1990.9	819.2	447.4	370.6	343.0	329.2	323.8	319.6	318.4	320.2
47.5°	2798.7	2098.9	818.6	432.4	358.0	332.8	317.8	311.8	306.4	303.4	302.8
50°	2957.6	2184.6	832.9	425.8	347.2	321.4	306.4	300.4	293.2	287.2	288.4
52.5°	3077.5	2240.4	839.5	422.8	341.2	309.4	294.4	289.0	280.6	272.9	272.9
55°	3154.9	2253.6	823.3	419.8	336.4	296.8	280.6	275.8	267.5	259.7	259.7
57.5°	3181.3	2212.8	765.2	412.6	331.6	286.0	266.9	262.7	256.1	248.3	247.1
60°	3120.1	2074.9	663.2	391.0	322.0	274.6	251.9	250.1	247.7	241.1	240.5
62.5°	2884.4	1782.2	552.3	362.8	305.8	262.7	238.1	241.1	242.9	239.3	238.7
65°	2492.2	1447.0	471.9	323.8	284.2	245.9	223.1	230.9	235.7	235.7	234.5
67.5°	2021.5	1111.2	397.6	290.2	257.3	223.1	206.3	212.3	215.9	214.7	217.7
70°	1436.8	752.6	323.8	251.9	223.1	197.3	184.7	184.7	182.3	181.1	181.1
72.5°	696.8	430.0	262.7	210.5	190.1	168.5	158.3	154.1	149.3	148.7	145.7
73°	582.3	385.6	250.7	202.7	182.3	164.3	152.9	146.3	143.3	140.9	140.3
75°	354.4	292.6	209.3	170.9	155.3	141.5	131.3	125.3	122.3	120.5	119.9
77.5°	233.3	218.3	162.5	130.7	118.7	110.3	106.1	100.1	98.3	95.9	95.9
80°	173.9	166.7	116.3	92.3	85.2	78.0	76.8	75.6	70.8	67.8	66.6
82.5°	112.1	118.7	79.2	61.8	54.0	48.0	48.6	50.4	45.6	41.4	40.2
85°	79.8	85.8	48.0	28.2	22.8	19.8	22.2	19.8	20.4	16.2	13.2
87.5°	13.2	22.8	8.4	3.6	1.8	1.2	0.0	0.0	0.0	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)