

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: P949272

Luminaire Tested: **GALN-SB4A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11931 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

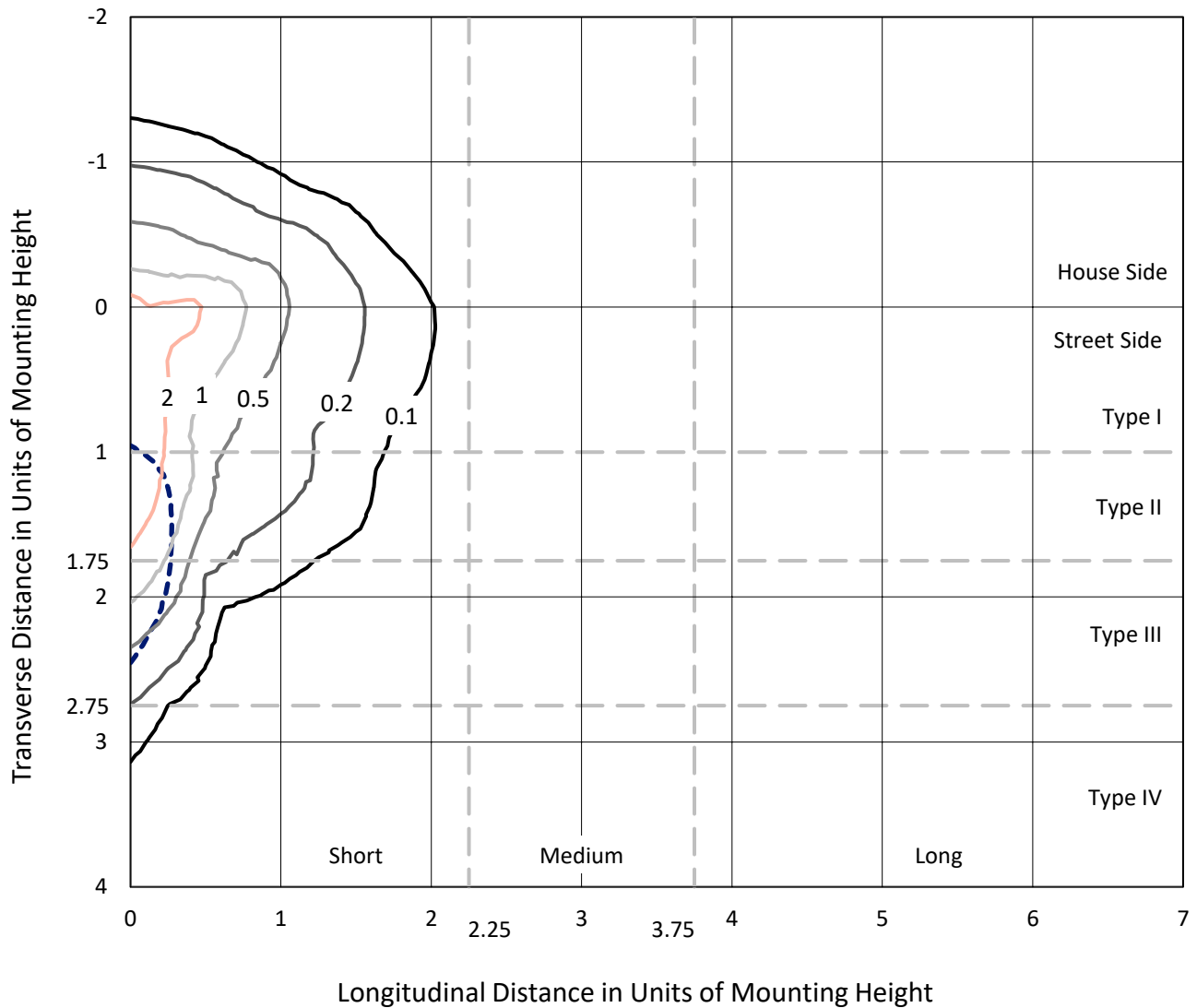
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

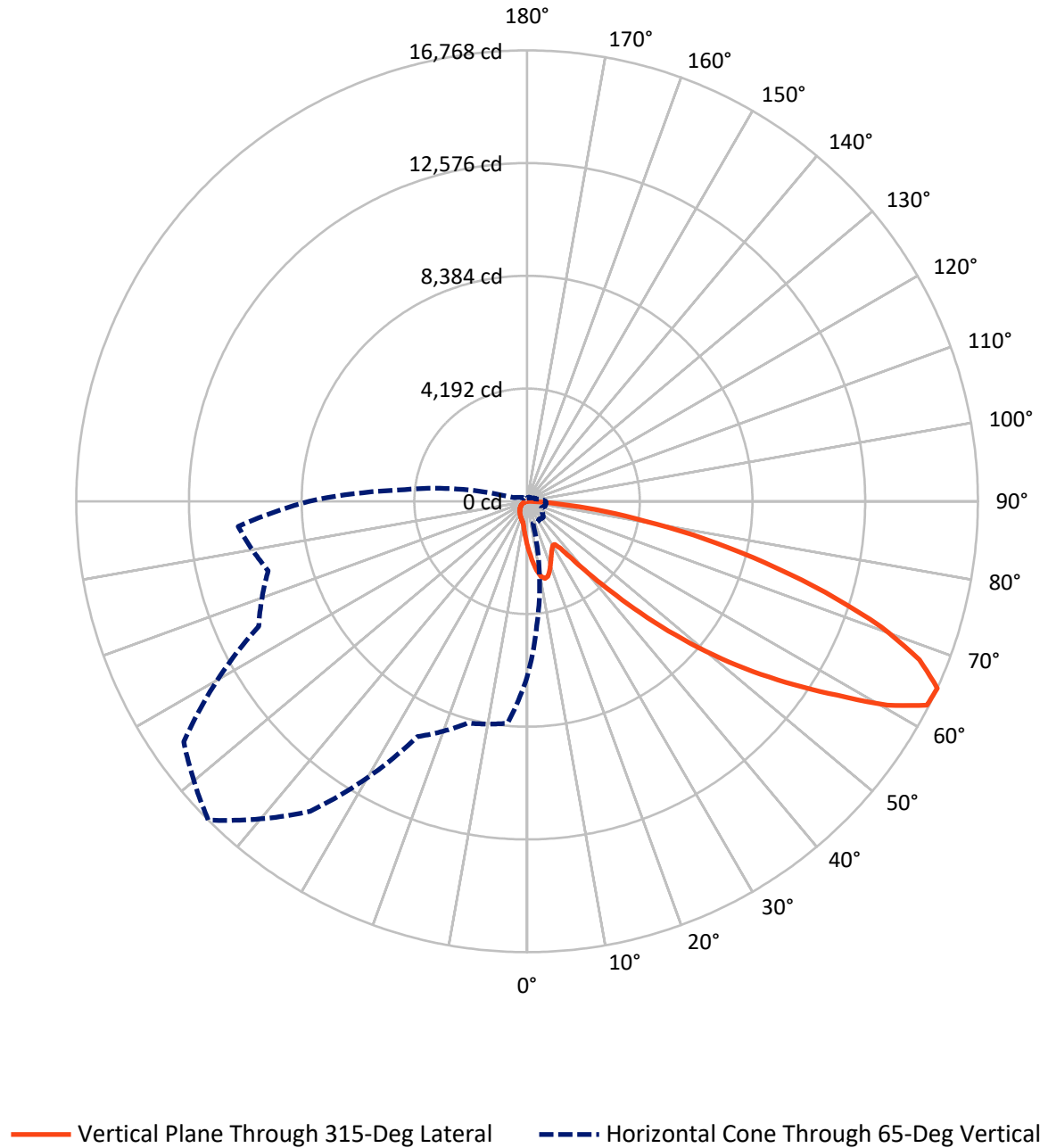
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1670.8	0.0	1670.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10260.2	0.0	10260.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	11931.0	0.0	11931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	1.4
10°-20°	487.6	4.1
20°-30°	718.3	6.0
30°-40°	922.8	7.7
40°-50°	1492.5	12.5
50°-60°	2617.2	21.9
60°-70°	3274.8	27.4
70°-80°	1913.7	16.0
80°-90°	341.4	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°	11931.0	100.0
0°-180°	11931.0	100.0

Coefficient of Utilization



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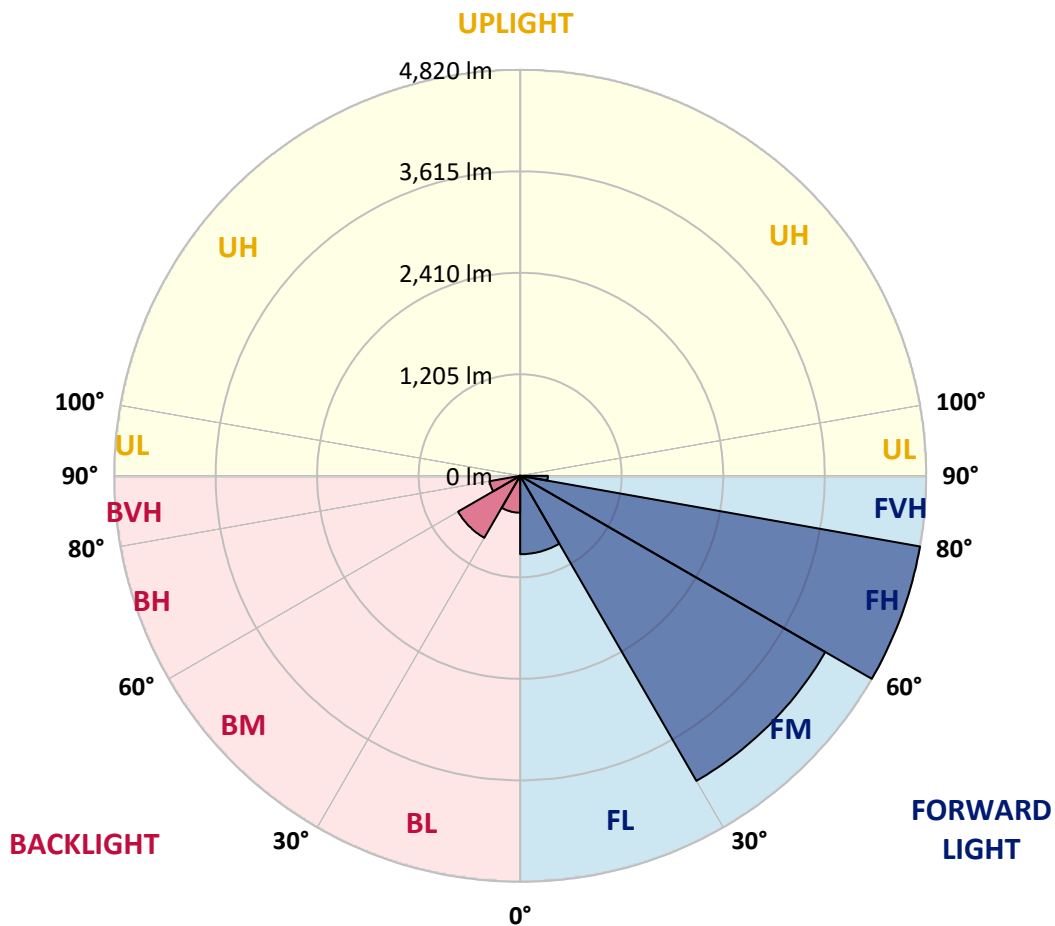
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.6	7.8			
FM (30°-60°)	4181.7	35.0			
FH (60°-80°)	4819.6	40.4			G2/5000
FVH (80°-90°)	328.3	2.8			G3/500
BL (0°-30°)	438.0	3.7	B1/500		
BM (30°-60°)	850.8	7.1	B1/1000		
BH (60°-80°)	368.9	3.1	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			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°	45°	55°	65°	75°	85°
0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1866.6	1834.5	1815.6	1768.8	1721.9	1684.1	1633.2	1599.5	1559.2	1520.6
5°	2080.3	2028.5	1966.0	1880.6	1802.5	1722.7	1645.5	1569.0	1488.5	1414.5
7.5°	2261.1	2186.3	2076.2	1962.7	1863.3	1767.1	1676.7	1575.6	1477.8	1361.9
10°	2399.2	2303.8	2159.2	2010.4	1896.2	1799.2	1711.2	1625.8	1527.1	1387.4
12.5°	2483.0	2381.1	2209.3	2035.1	1904.4	1795.9	1727.7	1689.9	1651.2	1512.3
15°	2544.7	2434.5	2244.7	2052.3	1885.5	1752.3	1702.2	1740.0	1784.4	1695.6
17.5°	2608.8	2492.9	2290.7	2059.7	1834.5	1667.7	1646.3	1744.1	1846.9	1842.7
20°	2669.6	2554.5	2331.0	2054.8	1752.3	1564.9	1583.8	1708.8	1828.0	1878.1
22.5°	2739.5	2617.8	2369.6	2035.9	1645.5	1468.8	1528.0	1652.9	1757.3	1816.4
25°	2824.9	2697.5	2423.8	2008.0	1530.4	1389.0	1471.2	1588.0	1672.6	1713.7
27.5°	2917.0	2792.9	2496.2	1993.2	1437.5	1332.3	1407.1	1510.7	1586.3	1615.1
30°	3031.2	2903.8	2581.7	1976.7	1376.7	1299.5	1340.6	1421.1	1495.1	1523.8
32.5°	3156.2	3027.1	2663.8	1937.3	1339.7	1274.8	1275.6	1326.6	1394.0	1428.5
35°	3312.3	3175.1	2751.8	1851.0	1310.1	1246.0	1212.3	1237.0	1292.9	1334.0
37.5°	3535.1	3369.1	2859.5	1727.7	1266.6	1201.6	1145.8	1151.5	1194.3	1239.5
40°	3842.5	3629.6	2986.0	1599.5	1204.1	1139.2	1072.6	1070.1	1101.4	1145.8
42.5°	4258.4	3974.0	3138.1	1477.0	1144.1	1063.6	995.3	991.2	1015.9	1054.5
45°	4807.4	4414.5	3324.7	1371.8	1097.3	989.6	922.2	920.6	941.1	974.8
47.5°	5510.2	5026.9	3511.2	1300.3	1072.6	931.2	862.2	865.5	883.6	914.0
50°	6420.0	5825.0	3568.0	1264.1	1072.6	900.0	808.8	825.2	840.0	863.0
52.5°	7510.7	6591.0	3380.6	1231.2	1079.2	904.1	763.6	798.9	809.6	829.3
55°	8521.7	6966.6	2906.3	1186.0	1080.8	929.6	724.9	777.5	797.3	804.7
57.5°	9108.5	6837.6	2349.9	1109.6	1074.3	946.9	700.3	751.2	789.0	794.0
60°	8996.8	6384.7	1730.1	1051.2	1025.8	940.3	692.9	711.0	771.0	778.4
62.5°	8135.4	5625.2	1200.8	1006.0	918.9	911.5	690.4	647.7	731.5	749.6
65°	6539.2	4428.5	848.2	866.3	805.5	849.0	677.3	581.9	683.8	708.5
67.5°	4744.1	2996.7	612.3	701.9	729.9	747.9	647.7	534.2	629.6	662.5
70°	3044.4	1618.4	429.9	463.6	614.8	635.3	596.7	491.5	574.5	612.3
72.5°	2164.1	955.9	309.0	324.7	494.0	529.3	525.2	443.8	510.4	556.4
75°	1493.4	526.9	208.8	231.8	358.4	429.9	405.2	381.4	432.3	479.2
77.5°	936.2	235.9	124.9	161.1	235.1	337.8	277.8	295.1	337.0	380.5
80°	521.1	91.2	69.9	106.8	128.2	245.8	153.7	189.9	248.2	279.5
82.5°	113.4	11.5	31.2	46.0	50.1	143.0	81.4	110.1	156.2	153.7
85°	0.0	0.0	5.8	6.6	3.3	61.6	29.6	36.2	51.0	47.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
90°	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°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1486.0	2.5°	1479.5	1439.2	1409.6	1394.8	1382.5	1394.0	1400.6	1400.6	1428.5	1444.9
1369.3	5°	1340.6	1268.2	1213.2	1176.2	1154.0	1161.4	1169.6	1178.6	1214.0	1237.8
1300.3	7.5°	1244.4	1133.4	1049.6	997.8	970.7	974.8	980.6	987.9	1022.5	1046.3
1310.1	10°	1226.3	1066.9	948.5	880.3	847.4	841.6	838.4	835.9	856.4	874.5
1421.9	12.5°	1300.3	1070.1	904.9	821.9	781.6	764.4	744.7	729.0	732.3	743.8
1591.2	15°	1432.6	1112.1	891.0	791.5	741.4	712.6	689.6	670.7	666.6	670.7
1739.2	17.5°	1583.8	1168.8	889.3	765.2	702.7	673.2	654.2	637.0	631.2	632.1
1822.2	20°	1684.1	1214.0	884.4	735.6	665.8	639.5	623.0	605.8	600.0	601.6
1799.2	22.5°	1694.0	1237.8	877.0	702.7	628.8	606.6	590.1	574.5	573.7	573.7
1712.9	25°	1640.6	1237.8	861.4	673.2	593.4	573.7	558.9	540.0	543.3	544.9
1615.1	27.5°	1557.5	1208.2	831.8	649.3	563.0	542.5	527.7	510.4	514.5	517.0
1523.8	30°	1475.3	1170.4	796.4	622.2	534.2	510.4	499.7	484.9	486.6	489.9
1433.4	32.5°	1398.9	1130.1	754.5	600.0	505.5	481.6	473.4	457.0	459.5	462.7
1344.7	35°	1323.3	1085.8	705.2	573.7	479.2	455.3	448.8	429.9	431.5	436.4
1255.9	37.5°	1241.9	1038.9	664.9	547.4	453.7	429.0	422.5	402.7	404.4	410.1
1163.8	40°	1156.4	992.9	625.5	519.5	426.6	401.9	396.2	374.8	376.4	383.0
1073.4	42.5°	1070.1	942.7	595.1	483.3	398.6	372.3	366.6	346.9	349.3	356.7
994.5	45°	990.4	882.7	575.3	443.0	372.3	342.7	337.0	318.9	323.8	332.1
927.9	47.5°	922.2	821.1	567.1	409.3	344.4	312.3	307.4	292.6	300.8	309.9
871.2	50°	863.8	761.9	556.4	374.8	318.1	286.0	281.1	271.2	281.9	291.0
832.6	52.5°	821.9	694.5	533.4	343.6	295.1	263.8	262.2	257.3	267.1	275.3
803.8	55°	785.8	624.7	496.4	316.4	274.5	244.9	246.6	244.1	252.3	258.9
786.6	57.5°	752.9	563.8	449.6	295.1	252.3	228.5	233.4	230.1	234.2	238.4
768.5	60°	713.4	502.2	393.7	271.2	226.0	212.1	217.8	208.8	207.9	209.6
735.6	62.5°	655.1	419.2	335.3	241.6	203.0	194.0	196.4	179.2	166.0	166.0
687.1	65°	573.7	337.0	281.1	208.8	176.7	169.3	167.7	143.0	124.9	123.3
634.5	67.5°	479.2	277.0	233.4	175.9	147.1	142.2	143.8	125.8	107.7	106.0
581.9	70°	390.4	229.3	188.2	140.5	113.4	118.4	125.8	107.7	90.4	87.9
520.3	72.5°	317.3	182.5	147.1	107.7	83.8	97.8	106.8	87.9	71.5	69.9
443.8	75°	244.9	134.0	105.2	73.2	60.8	75.6	83.8	64.1	51.0	48.5
343.6	77.5°	163.6	83.0	59.2	46.0	36.2	51.8	55.9	33.7	29.6	28.8
249.9	80°	99.5	38.6	25.5	22.2	12.3	18.9	22.2	14.0	15.6	16.4
133.2	82.5°	50.1	10.7	4.1	0.8	0.0	0.0	6.6	3.3	6.6	8.2
36.2	85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1451.5	2.5°	1497.5	1532.1	1564.9	1617.5	1671.8	1725.2	1779.5	1832.1	1851.0	1864.9
1253.4	5°	1324.9	1389.9	1465.5	1569.9	1681.7	1796.7	1913.4	2020.3	2068.8	2101.7
1066.9	7.5°	1146.6	1231.2	1339.7	1496.7	1671.8	1855.1	2038.4	2206.9	2284.9	2348.2
891.0	10°	969.9	1061.9	1199.2	1378.4	1615.1	1878.1	2131.2	2363.0	2464.1	2543.8
764.4	12.5°	814.5	900.8	1044.7	1242.7	1526.3	1860.0	2184.7	2463.3	2582.5	2672.1
674.0	15°	705.2	766.0	893.4	1107.1	1421.1	1801.7	2188.0	2511.0	2641.7	2735.4
636.2	17.5°	644.4	664.9	747.9	969.0	1304.4	1725.2	2157.5	2527.4	2667.1	2754.3
602.5	20°	611.5	614.8	637.8	789.9	1154.8	1653.7	2128.8	2543.8	2691.0	2764.1
578.6	22.5°	585.2	585.2	591.0	646.0	961.6	1568.2	2119.7	2572.6	2723.8	2769.1
551.5	25°	561.4	561.4	563.0	577.8	761.9	1437.5	2114.0	2617.0	2769.1	2781.4
524.4	27.5°	536.7	537.5	537.5	545.8	614.0	1260.0	2089.3	2674.5	2823.3	2797.8
498.1	30°	512.1	513.7	513.7	519.5	543.3	1052.1	2040.8	2743.6	2894.0	2819.2
471.8	32.5°	487.4	489.0	489.0	494.0	511.2	840.0	1980.0	2806.9	2965.5	2828.2
446.3	35°	461.9	464.4	462.7	469.3	487.4	668.2	1902.7	2870.1	3042.8	2857.0
421.6	37.5°	436.4	438.1	437.3	443.8	464.4	577.0	1813.2	2917.8	3148.0	2921.1
395.3	40°	411.0	410.1	410.1	417.5	439.7	550.7	1700.6	2993.4	3299.2	3033.7
369.0	42.5°	384.7	384.7	383.0	391.2	418.4	531.0	1592.9	3129.1	3519.5	3212.9
344.4	45°	360.8	360.0	356.7	364.1	397.8	496.4	1555.1	3382.2	3844.9	3503.0
319.7	47.5°	337.8	337.0	328.8	335.3	373.2	465.2	1696.4	3796.5	4296.2	3929.6
300.0	50°	317.3	318.1	302.5	308.2	348.5	441.4	2003.0	4334.0	4895.4	4504.1
283.6	52.5°	298.4	298.4	277.8	281.1	318.1	420.0	2294.8	4916.7	5686.1	5305.5
266.3	55°	279.5	277.8	254.8	256.4	287.7	389.6	2338.4	5485.5	6764.4	6511.3
247.4	57.5°	258.1	254.8	233.4	233.4	259.7	367.4	2026.9	5922.8	8102.5	8283.3
212.1	60°	231.8	229.3	215.3	211.2	237.5	387.1	1430.1	5973.7	8965.5	10639.8
168.5	62.5°	198.1	201.4	194.0	188.2	216.2	401.9	847.4	5563.6	8756.7	11389.4
130.7	65°	156.2	169.3	167.7	163.6	237.5	338.6	500.6	4776.2	8116.5	10784.4
114.2	67.5°	133.2	142.2	139.7	139.7	249.0	257.3	314.8	3731.5	7235.4	10066.9
95.3	70°	113.4	122.5	113.4	113.4	188.2	156.2	217.8	2605.5	6284.4	9272.9
76.4	72.5°	93.7	102.7	92.9	86.3	150.4	116.7	159.5	1628.2	5381.9	8446.1
54.2	75°	71.5	82.2	74.8	66.6	99.5	87.1	120.8	946.0	4458.9	7226.3
32.9	77.5°	45.2	59.2	55.9	46.8	73.2	63.3	87.1	563.0	3440.6	5646.6
19.7	80°	27.9	30.4	31.2	29.6	41.9	42.7	59.2	320.5	2354.8	3935.4
12.3	82.5°	18.1	18.1	14.0	15.6	20.5	24.7	33.7	120.8	1384.1	2395.9
7.4	85°	13.2	11.5	7.4	7.4	9.9	12.3	13.2	37.0	561.4	946.0
3.3	87.5°	6.6	5.8	2.5	3.3	4.9	4.1	3.3	1.6	141.4	302.5
0.0	90°	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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1652.1	0°	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1	1652.1
1896.2	2.5°	1912.6	1938.1	1939.7	1939.7	1917.5	1916.7	1871.5	1866.6
2175.6	5°	2252.1	2268.5	2272.6	2264.4	2220.0	2187.1	2099.2	2080.3
2460.8	7.5°	2562.8	2595.6	2595.6	2575.9	2503.6	2436.2	2308.8	2261.1
2696.7	10°	2811.0	2848.8	2840.6	2800.3	2709.1	2616.2	2461.7	2399.2
2839.7	12.5°	2931.8	2970.4	2949.1	2903.0	2814.3	2716.4	2553.7	2483.0
2880.8	15°	2929.3	2918.6	2896.5	2890.7	2848.0	2774.0	2621.9	2544.7
2855.4	17.5°	2824.9	2734.5	2717.3	2774.8	2829.1	2811.0	2681.1	2608.8
2794.5	20°	2659.7	2501.9	2486.3	2596.4	2751.0	2829.9	2736.2	2669.6
2706.6	22.5°	2485.5	2315.4	2279.2	2400.8	2633.4	2835.6	2806.0	2739.5
2609.6	25°	2320.3	2149.3	2113.2	2226.6	2502.8	2825.8	2881.7	2824.9
2516.7	27.5°	2182.2	2017.0	1983.3	2096.7	2377.0	2797.8	2957.3	2917.0
2424.7	30°	2075.4	1922.5	1897.8	2007.1	2268.5	2763.3	3053.4	3031.2
2339.2	32.5°	2012.9	1901.1	1910.1	1999.7	2210.1	2725.5	3145.5	3156.2
2297.3	35°	2074.5	2079.5	2158.4	2195.4	2264.4	2719.7	3270.4	3312.3
2347.4	37.5°	2381.1	2552.1	2715.6	2685.2	2529.9	2786.3	3457.0	3535.1
2566.0	40°	2903.0	3254.0	3519.5	3403.6	3012.3	2990.1	3725.8	3842.5
2954.0	42.5°	3540.8	4135.9	4573.2	4262.5	3634.5	3346.9	4109.6	4258.4
3423.3	45°	4214.0	5223.3	5912.1	5266.0	4297.8	3846.6	4690.7	4807.4
3863.0	47.5°	4923.3	6545.0	7435.9	6378.9	4912.6	4415.4	5483.0	5510.2
4279.7	50°	5699.2	7994.0	8989.4	7491.0	5506.1	5067.1	6451.3	6420.0
4765.5	52.5°	6438.1	9484.1	10509.9	8608.0	6027.1	5875.9	7574.8	7510.7
5429.6	55°	7143.3	10973.5	12039.5	9681.4	6518.7	6944.4	8909.6	8521.7
6387.2	57.5°	7961.1	12312.4	13615.9	10759.8	7205.8	8331.8	10402.2	9108.5
8220.9	60°	9170.2	13833.8	15398.7	12237.6	8512.6	9789.9	10937.3	8996.8
10417.0	62.5°	10713.7	15232.7	16694.9	13685.8	9825.2	10064.4	10149.1	8135.4
9969.1	65°	11013.7	15586.9	16768.0	14072.9	9655.9	8537.3	8285.8	6539.2
8904.7	67.5°	10218.1	14946.6	15745.5	13352.1	8541.4	6597.6	6217.8	4744.1
8206.1	70°	9325.5	13726.1	13963.6	12126.6	7512.4	4852.6	4199.2	3044.4
7727.7	72.5°	8410.7	12097.9	11606.4	10531.3	6602.5	3533.4	3028.8	2164.1
7046.3	75°	7324.1	9956.8	9142.2	8750.2	5466.6	2773.2	2191.2	1493.4
6060.8	77.5°	5865.2	7008.5	6790.7	6782.5	4108.0	2026.0	1462.2	936.2
4735.1	80°	4137.6	4548.5	4437.6	5108.2	2755.9	1469.6	880.3	521.1
3295.9	82.5°	2003.0	2515.1	2581.7	3041.9	1340.6	864.7	203.0	113.4
1288.8	85°	784.1	1213.2	1023.3	1154.8	376.4	240.8	4.9	0.0
212.1	87.5°	87.9	140.5	129.0	101.9	46.0	9.9	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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