

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: P950784

Luminaire Tested: **GALN-SB5A-850-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950784  
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-SB5A-850-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

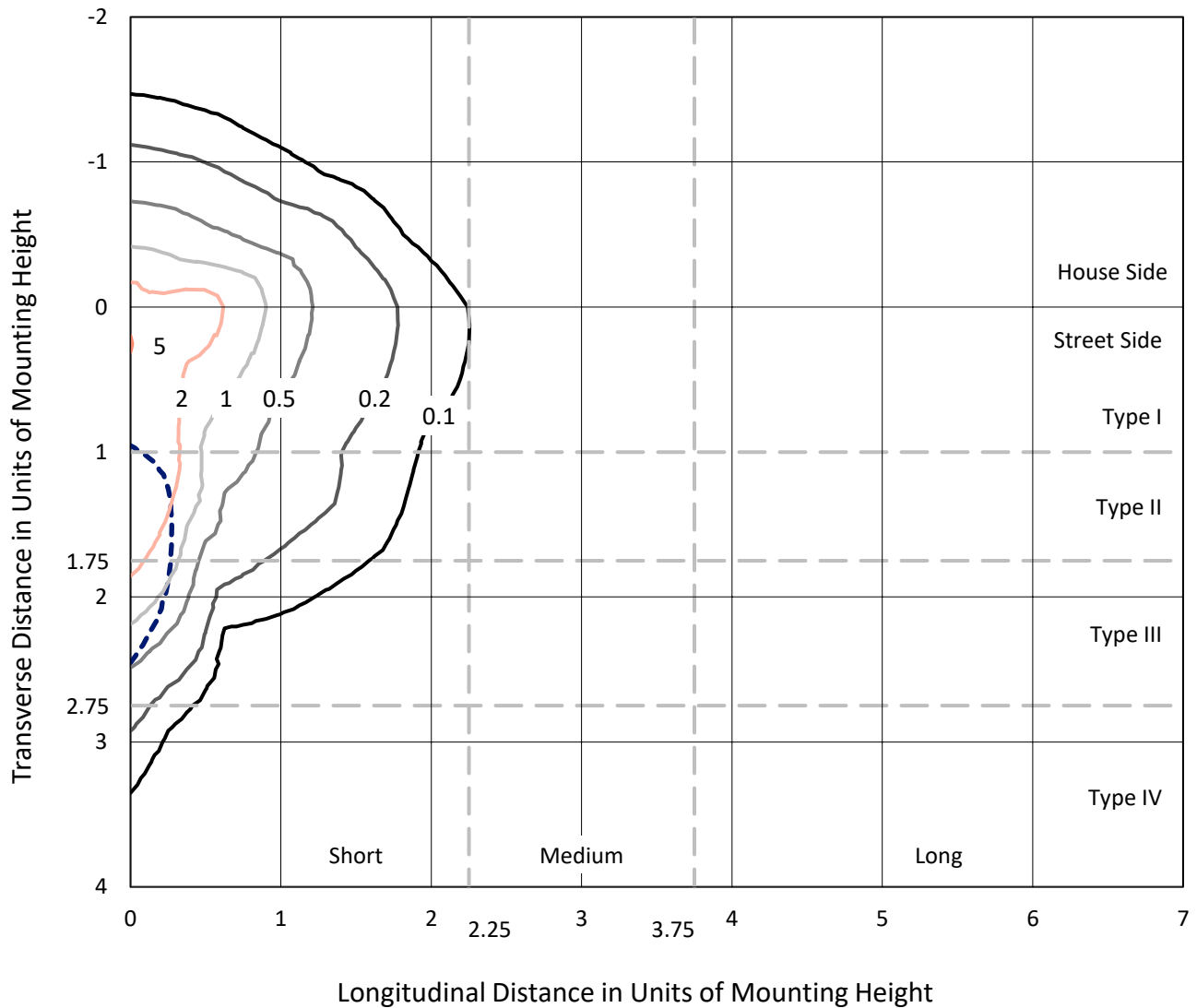
Lumens per Lamp: N/A  
Luminaire Lumens: 16542 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

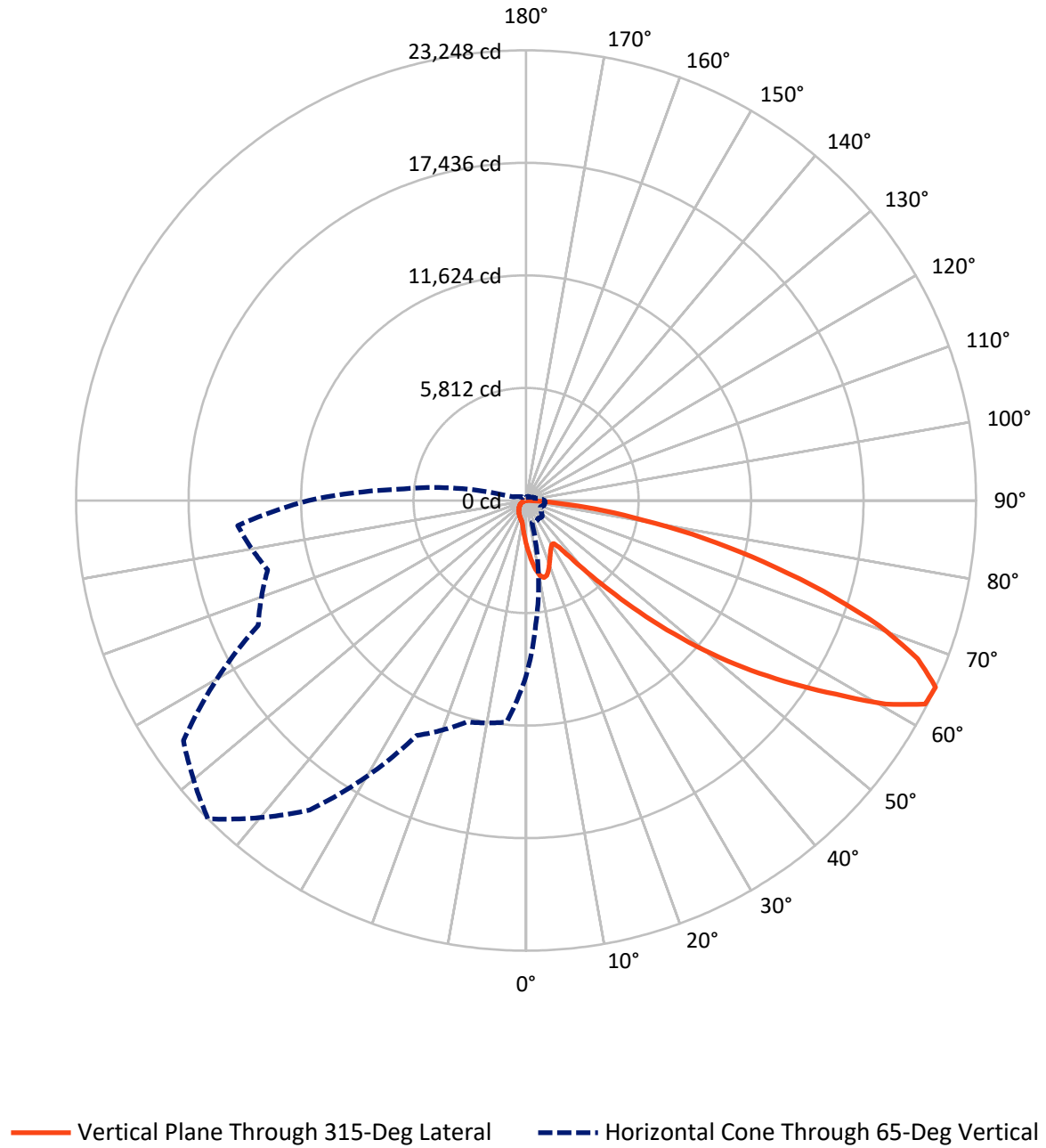
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2316.6	0.0	2316.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14225.4	0.0	14225.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16542.0	0.0	16542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	1.4
10°-20°	676.0	4.1
20°-30°	995.9	6.0
30°-40°	1279.5	7.7
40°-50°	2069.3	12.5
50°-60°	3628.7	21.9
60°-70°	4540.5	27.4
70°-80°	2653.2	16.0
80°-90°	473.4	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°	16542.0	100.0
0°-180°	16542.0	100.0

**Coefficient of Utilization**



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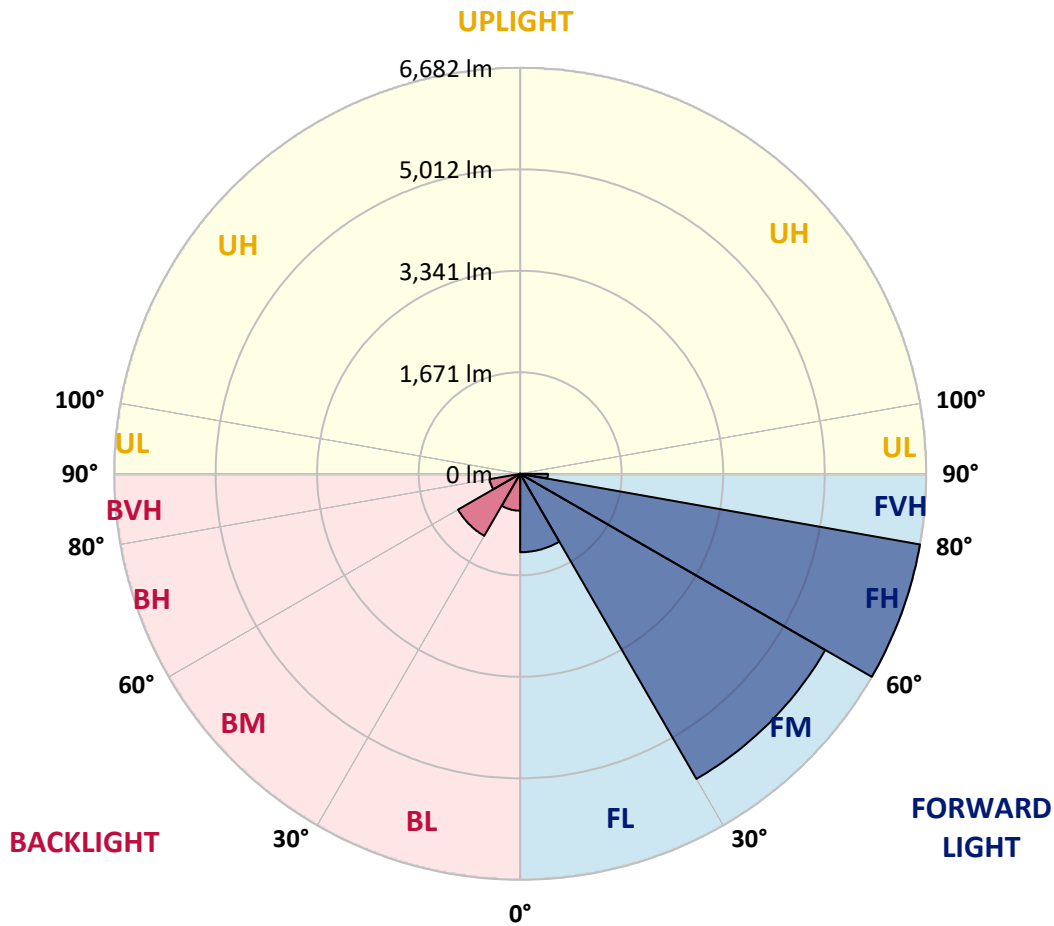
CATALOG NUMBER: GALN-SB5A-850-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.2	7.8			
FM (30°-60°)	5797.8	35.0			
FH (60°-80°)	6682.2	40.4			G3/7500
FVH (80°-90°)	455.2	2.8			G3/500
BL (0°-30°)	607.2	3.7	B2/1000		
BM (30°-60°)	1179.7	7.1	B2/2500		
BH (60°-80°)	511.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.2	0.1			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°	35°	45°	55°	65°	75°	85°
0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2.5°	2588.0	2543.5	2517.3	2452.4	2387.4	2335.0	2264.3	2217.6	2161.8	2108.2
5°	2884.3	2812.5	2725.9	2607.3	2499.1	2388.5	2281.4	2175.4	2063.8	1961.2
7.5°	3135.0	3031.3	2878.6	2721.3	2583.4	2450.1	2324.7	2184.6	2048.9	1888.3
10°	3326.4	3194.2	2993.7	2787.4	2629.0	2494.5	2372.6	2254.1	2117.3	1923.6
12.5°	3442.6	3301.3	3063.2	2821.6	2640.4	2490.0	2395.4	2343.0	2289.4	2096.8
15°	3528.1	3375.4	3112.2	2845.5	2614.2	2429.6	2360.1	2412.5	2474.0	2350.9
17.5°	3617.0	3456.3	3176.0	2855.8	2543.5	2312.2	2282.6	2418.2	2560.6	2554.9
20°	3701.3	3541.8	3231.8	2848.9	2429.6	2169.7	2196.0	2369.2	2534.4	2603.9
22.5°	3798.2	3629.5	3285.4	2822.7	2281.4	2036.4	2118.5	2291.7	2436.4	2518.5
25°	3916.7	3740.1	3360.6	2784.0	2121.9	1925.9	2039.8	2201.7	2319.0	2376.0
27.5°	4044.3	3872.3	3460.9	2763.5	1993.1	1847.2	1950.9	2094.5	2199.4	2239.3
30°	4202.7	4026.1	3579.4	2740.7	1908.8	1801.7	1858.6	1970.3	2072.9	2112.8
32.5°	4376.0	4197.0	3693.3	2686.0	1857.5	1767.5	1768.6	1839.3	1932.7	1980.6
35°	4592.5	4402.2	3815.3	2566.3	1816.5	1727.6	1680.9	1715.1	1792.5	1849.5
37.5°	4901.3	4671.1	3964.6	2395.4	1756.1	1666.1	1588.6	1596.5	1655.8	1718.5
40°	5327.5	5032.3	4140.1	2217.6	1669.5	1579.4	1487.1	1483.7	1527.0	1588.6
42.5°	5904.1	5509.8	4350.9	2047.8	1586.3	1474.6	1380.0	1374.3	1408.5	1462.1
45°	6665.4	6120.6	4609.6	1901.9	1521.3	1372.0	1278.6	1276.3	1304.8	1351.5
47.5°	7639.7	6969.6	4868.2	1802.8	1487.1	1291.1	1195.4	1200.0	1225.0	1267.2
50°	8901.2	8076.1	4946.9	1752.7	1487.1	1247.8	1121.3	1144.1	1164.6	1196.5
52.5°	10413.4	9138.2	4687.1	1707.1	1496.3	1253.5	1058.7	1107.7	1122.5	1149.8
55°	11815.1	9659.0	4029.5	1644.4	1498.5	1288.9	1005.1	1078.0	1105.4	1115.6
57.5°	12628.7	9480.1	3258.0	1538.4	1489.4	1312.8	970.9	1041.6	1094.0	1100.8
60°	12473.7	8852.2	2398.8	1457.5	1422.2	1303.7	960.7	985.7	1068.9	1079.2
62.5°	11279.5	7799.2	1664.9	1394.8	1274.0	1263.8	957.2	898.0	1014.2	1039.3
65°	9066.4	6140.0	1176.0	1201.1	1116.8	1177.2	939.0	806.8	948.1	982.3
67.5°	6577.6	4154.9	849.0	973.2	1011.9	1037.0	898.0	740.7	872.9	918.5
70°	4221.0	2243.8	596.0	642.7	852.4	880.9	827.3	681.5	796.6	849.0
72.5°	3000.5	1325.3	428.5	450.1	684.9	733.9	728.2	615.4	707.7	771.5
75°	2070.6	730.5	289.5	321.4	496.9	596.0	561.8	528.8	599.4	664.4
77.5°	1298.0	327.1	173.2	223.4	325.9	468.4	385.2	409.1	467.2	527.6
80°	722.5	126.5	96.9	148.1	177.8	340.7	213.1	263.2	344.2	387.5
82.5°	157.3	16.0	43.3	63.8	69.5	198.3	112.8	152.7	216.5	213.1
85°	0.0	0.0	8.0	9.1	4.6	85.5	41.0	50.1	70.7	66.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2060.3	2.5°	2051.2	1995.4	1954.4	1933.9	1916.8	1932.7	1941.8	1941.8	1980.6	2003.4
1898.5	5°	1858.6	1758.4	1682.0	1630.7	1600.0	1610.2	1621.6	1634.1	1683.1	1716.2
1802.8	7.5°	1725.3	1571.5	1455.2	1383.4	1345.8	1351.5	1359.5	1369.8	1417.6	1450.7
1816.5	10°	1700.2	1479.2	1315.1	1220.5	1174.9	1166.9	1162.4	1158.9	1187.4	1212.5
1971.5	12.5°	1802.8	1483.7	1254.7	1139.6	1083.7	1059.8	1032.5	1010.8	1015.4	1031.3
2206.2	15°	1986.3	1541.8	1235.3	1097.4	1027.9	988.0	956.1	929.9	924.2	929.9
2411.3	17.5°	2196.0	1620.5	1233.0	1060.9	974.3	933.3	907.1	883.2	875.2	876.3
2526.4	20°	2335.0	1683.1	1226.2	1019.9	923.1	886.6	863.8	839.9	831.9	834.2
2494.5	22.5°	2348.7	1716.2	1215.9	974.3	871.8	841.0	818.2	796.6	795.4	795.4
2374.9	25°	2274.6	1716.2	1194.3	933.3	822.8	795.4	774.9	748.7	753.3	755.5
2239.3	27.5°	2159.5	1675.2	1153.2	900.3	780.6	752.1	731.6	707.7	713.4	716.8
2112.8	30°	2045.5	1622.7	1104.2	862.7	740.7	707.7	692.9	672.3	674.6	679.2
1987.4	32.5°	1939.5	1566.9	1046.1	831.9	700.8	667.8	656.4	633.6	637.0	641.6
1864.3	35°	1834.7	1505.4	977.8	795.4	664.4	631.3	622.2	596.0	598.3	605.1
1741.3	37.5°	1721.9	1440.4	921.9	759.0	629.0	594.9	585.7	558.4	560.7	568.6
1613.6	40°	1603.4	1376.6	867.2	720.2	591.4	557.3	549.3	519.6	521.9	531.0
1488.3	42.5°	1483.7	1307.1	825.0	670.1	552.7	516.2	508.2	480.9	484.3	494.6
1378.9	45°	1373.2	1223.9	797.7	614.2	516.2	475.2	467.2	442.2	449.0	460.4
1286.6	47.5°	1278.6	1138.4	786.3	567.5	477.5	433.0	426.2	405.7	417.1	429.6
1207.9	50°	1197.7	1056.4	771.5	519.6	441.0	396.6	389.7	376.1	390.9	403.4
1154.4	52.5°	1139.6	962.9	739.6	476.3	409.1	365.8	363.5	356.7	370.4	381.8
1114.5	55°	1089.4	866.1	688.3	438.7	380.6	339.6	341.9	338.5	349.8	359.0
1090.6	57.5°	1043.8	781.7	623.3	409.1	349.8	316.8	323.6	319.1	324.8	330.5
1065.5	60°	989.1	696.3	545.9	376.1	313.4	294.0	302.0	289.5	288.3	290.6
1019.9	62.5°	908.2	581.2	464.9	335.0	281.5	268.9	272.4	248.4	230.2	230.2
952.7	65°	795.4	467.2	389.7	289.5	245.0	234.8	232.5	198.3	173.2	170.9
879.7	67.5°	664.4	384.0	323.6	243.9	204.0	197.1	199.4	174.4	149.3	147.0
806.8	70°	541.3	317.9	261.0	194.9	157.3	164.1	174.4	149.3	125.4	121.9
721.3	72.5°	439.9	253.0	204.0	149.3	116.2	135.6	148.1	121.9	99.1	96.9
615.4	75°	339.6	185.8	145.9	101.4	84.3	104.8	116.2	88.9	70.7	67.2
476.3	77.5°	226.8	115.1	82.0	63.8	50.1	71.8	77.5	46.7	41.0	39.9
346.4	80°	137.9	53.6	35.3	30.8	17.1	26.2	30.8	19.4	21.7	22.8
184.6	82.5°	69.5	14.8	5.7	1.1	0.0	0.0	9.1	4.6	9.1	11.4
50.1	85°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7
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°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2012.5	2.5°	2076.3	2124.2	2169.7	2242.7	2317.9	2392.0	2467.2	2540.1	2566.3	2585.7
1737.8	5°	1837.0	1927.0	2031.9	2176.6	2331.6	2491.1	2652.9	2801.1	2868.3	2913.9
1479.2	7.5°	1589.7	1707.1	1857.5	2075.2	2317.9	2572.0	2826.1	3059.7	3168.0	3255.8
1235.3	10°	1344.7	1472.3	1662.6	1911.1	2239.3	2603.9	2954.9	3276.3	3416.4	3527.0
1059.8	12.5°	1129.3	1249.0	1448.4	1723.0	2116.2	2578.8	3029.0	3415.3	3580.5	3704.7
934.4	15°	977.8	1062.1	1238.7	1535.0	1970.3	2497.9	3033.5	3481.4	3662.6	3792.5
882.0	17.5°	893.4	921.9	1037.0	1343.6	1808.5	2392.0	2991.4	3504.2	3697.9	3818.7
835.3	20°	847.8	852.4	884.3	1095.1	1601.1	2292.8	2951.5	3527.0	3731.0	3832.4
802.3	22.5°	811.4	811.4	819.4	895.7	1333.3	2174.3	2939.0	3566.9	3776.5	3839.2
764.7	25°	778.3	778.3	780.6	801.1	1056.4	1993.1	2931.0	3628.4	3839.2	3856.3
727.0	27.5°	744.1	745.3	745.3	756.7	851.3	1747.0	2896.8	3708.2	3914.4	3879.1
690.6	30°	710.0	712.2	712.2	720.2	753.3	1458.7	2829.6	3803.9	4012.4	3908.7
654.1	32.5°	675.8	678.0	678.0	684.9	708.8	1164.6	2745.2	3891.6	4111.6	3921.3
618.8	35°	640.4	643.9	641.6	650.7	675.8	926.5	2638.1	3979.4	4218.7	3961.1
584.6	37.5°	605.1	607.4	606.3	615.4	643.9	800.0	2513.9	4045.5	4364.6	4050.0
548.1	40°	569.8	568.6	568.6	578.9	609.7	763.5	2357.8	4150.3	4574.2	4206.2
511.7	42.5°	533.3	533.3	531.0	542.4	580.0	736.2	2208.5	4338.3	4879.6	4454.6
477.5	45°	500.3	499.1	494.6	504.8	551.6	688.3	2156.1	4689.3	5330.9	4856.9
443.3	47.5°	468.4	467.2	455.8	464.9	517.4	645.0	2352.1	5263.7	5956.5	5448.3
415.9	50°	439.9	441.0	419.4	427.3	483.2	611.9	2777.1	6009.0	6787.3	6244.8
393.2	52.5°	413.7	413.7	385.2	389.7	441.0	582.3	3181.7	6816.9	7883.6	7355.9
369.2	55°	387.5	385.2	353.3	355.5	398.8	540.2	3242.1	7605.5	9378.7	9027.7
343.0	57.5°	357.8	353.3	323.6	323.6	360.1	509.4	2810.2	8211.7	11233.9	11484.6
294.0	60°	321.4	317.9	298.6	292.9	329.3	536.7	1982.9	8282.4	12430.4	14751.7
233.6	62.5°	274.6	279.2	268.9	261.0	299.7	557.3	1174.9	7713.8	12141.0	15791.0
181.2	65°	216.5	234.8	232.5	226.8	329.3	469.5	694.0	6622.0	11253.3	14952.3
158.4	67.5°	184.6	197.1	193.7	193.7	345.3	356.7	436.5	5173.7	10031.6	13957.5
132.2	70°	157.3	169.8	157.3	157.3	261.0	216.5	302.0	3612.4	8713.2	12856.6
106.0	72.5°	129.9	142.4	128.8	119.7	208.5	161.8	221.1	2257.5	7461.9	11710.2
75.2	75°	99.1	114.0	103.7	92.3	137.9	120.8	167.5	1311.6	6182.2	10019.1
45.6	77.5°	62.7	82.0	77.5	65.0	101.4	87.7	120.8	780.6	4770.2	7828.9
27.3	80°	38.7	42.2	43.3	41.0	58.1	59.3	82.0	444.4	3264.9	5456.3
17.1	82.5°	25.1	25.1	19.4	21.7	28.5	34.2	46.7	167.5	1919.0	3321.8
10.3	85°	18.2	16.0	10.3	10.3	13.7	17.1	18.2	51.3	778.3	1311.6
4.6	87.5°	9.1	8.0	3.4	4.6	6.8	5.7	4.6	2.3	196.0	419.4
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°
2290.5	0°	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5	2290.5
2629.0	2.5°	2651.8	2687.1	2689.4	2689.4	2658.6	2657.5	2594.8	2588.0
3016.4	5°	3122.4	3145.2	3150.9	3139.5	3078.0	3032.4	2910.5	2884.3
3411.9	7.5°	3553.2	3598.8	3598.8	3571.4	3471.1	3377.7	3201.1	3135.0
3738.9	10°	3897.3	3949.8	3938.4	3882.5	3756.0	3627.3	3413.0	3326.4
3937.2	12.5°	4064.8	4118.4	4088.8	4025.0	3901.9	3766.3	3540.6	3442.6
3994.2	15°	4061.4	4046.6	4015.8	4007.9	3948.6	3846.1	3635.2	3528.1
3958.9	17.5°	3916.7	3791.4	3767.4	3847.2	3922.4	3897.3	3717.3	3617.0
3874.5	20°	3687.7	3468.9	3447.2	3599.9	3814.1	3923.5	3793.6	3701.3
3752.6	22.5°	3446.1	3210.2	3160.0	3328.7	3651.2	3931.5	3890.5	3798.2
3618.1	25°	3217.0	2980.0	2929.8	3087.1	3470.0	3917.8	3995.3	3916.7
3489.4	27.5°	3025.6	2796.5	2749.8	2907.0	3295.6	3879.1	4100.2	4044.3
3361.7	30°	2877.4	2665.5	2631.3	2782.8	3145.2	3831.2	4233.5	4202.7
3243.2	32.5°	2790.8	2635.8	2648.4	2772.6	3064.3	3778.8	4361.1	4376.0
3185.1	35°	2876.3	2883.1	2992.5	3043.8	3139.5	3770.8	4534.4	4592.5
3254.6	37.5°	3301.3	3538.4	3765.1	3723.0	3507.6	3863.1	4793.0	4901.3
3557.7	40°	4025.0	4511.6	4879.6	4719.0	4176.5	4145.8	5165.7	5327.5
4095.6	42.5°	4909.3	5734.3	6340.6	5909.8	5039.2	4640.3	5697.9	5904.1
4746.3	45°	5842.6	7242.0	8196.9	7301.2	5958.8	5333.2	6503.5	6665.4
5356.0	47.5°	6826.0	9074.4	10309.7	8844.2	6811.2	6121.8	7602.1	7639.7
5933.7	50°	7901.8	11083.5	12463.5	10386.1	7634.0	7025.5	8944.5	8901.2
6607.2	52.5°	8926.3	13149.5	14571.7	11934.7	8356.5	8146.8	10502.3	10413.4
7528.0	55°	9904.0	15214.4	16692.4	13423.0	9037.9	9628.2	12352.9	11815.1
8855.6	57.5°	11037.9	17070.8	18878.1	14918.1	9990.6	11551.8	14422.4	12628.7
11398.0	60°	12714.2	19180.1	21349.9	16967.1	11802.5	13573.4	15164.3	12473.7
14442.9	62.5°	14854.3	21119.7	23147.0	18975.0	13622.4	13954.0	14071.4	11279.5
13821.9	65°	15270.3	21610.8	23248.4	19511.7	13387.7	11836.7	11488.0	9066.4
12346.1	67.5°	14167.1	20723.1	21830.8	18512.3	11842.4	9147.3	8620.9	6577.6
11377.5	70°	12929.6	19030.8	19360.2	16813.2	10415.7	6728.0	5822.1	4221.0
10714.2	72.5°	11661.2	16773.3	16091.9	14601.3	9154.2	4899.0	4199.3	3000.5
9769.5	75°	10154.7	13804.8	12675.4	12131.9	7579.3	3844.9	3038.1	2070.6
8403.2	77.5°	8132.0	9717.1	9415.1	9403.7	5695.6	2809.0	2027.3	1298.0
6565.1	80°	5736.6	6306.4	6152.5	7082.4	3821.0	2037.6	1220.5	722.5
4569.7	82.5°	2777.1	3487.1	3579.4	4217.6	1858.6	1198.8	281.5	157.3
1786.8	85°	1087.2	1682.0	1418.8	1601.1	521.9	333.9	6.8	0.0
294.0	87.5°	121.9	194.9	178.9	141.3	63.8	13.7	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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