

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: P949461

Luminaire Tested: **GALN-SB4A-950-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949461  
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-950-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

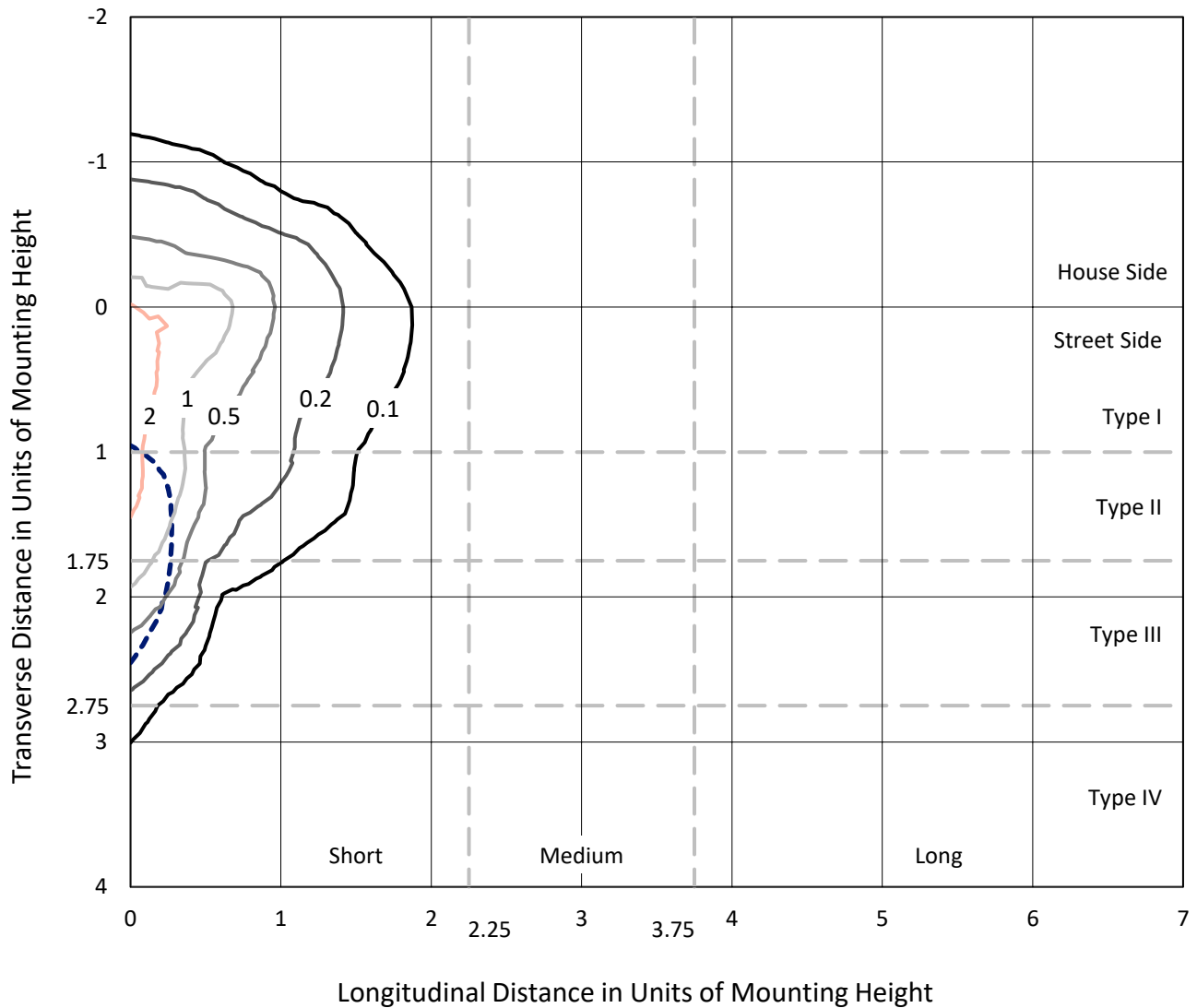
Lumens per Lamp: N/A  
Luminaire Lumens: 9545 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

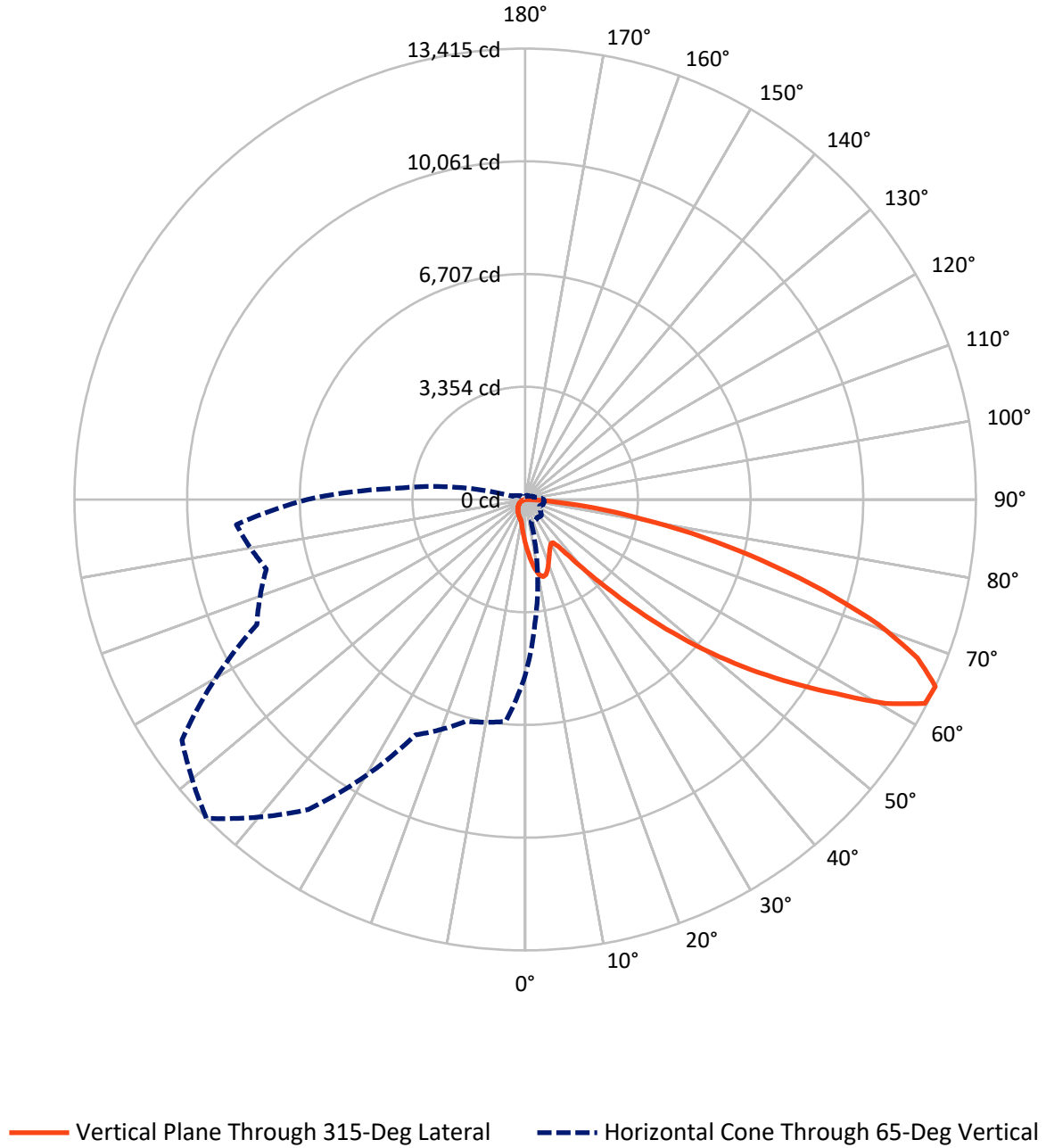
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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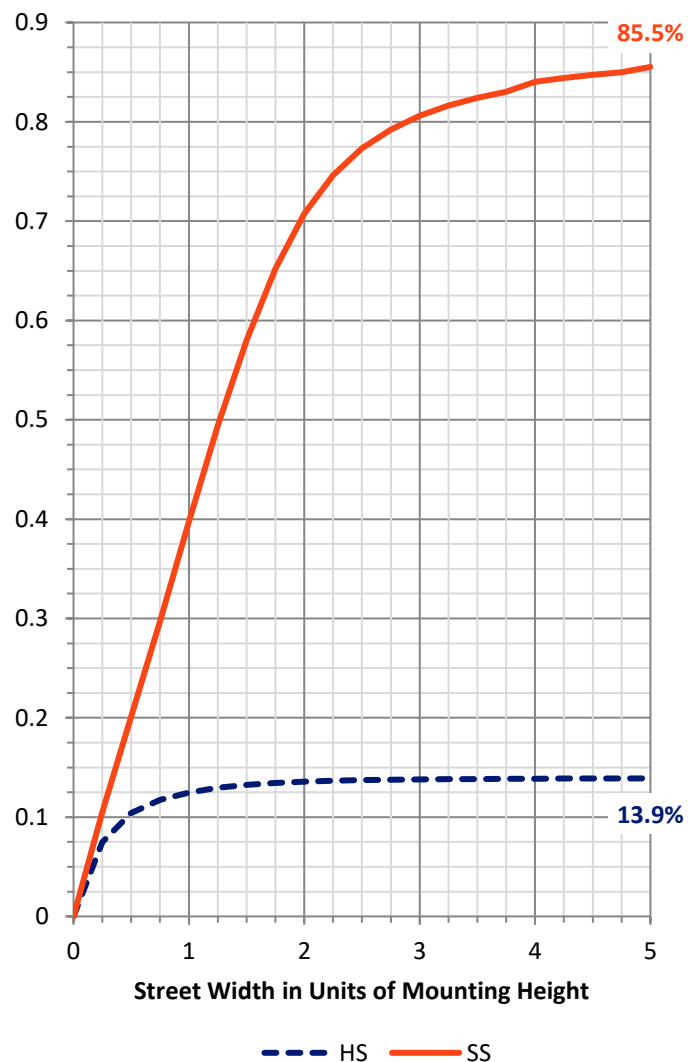
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1336.7	0.0	1336.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8208.3	0.0	8208.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9545.0	0.0	9545.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	1.4
10°-20°	390.1	4.1
20°-30°	574.7	6.0
30°-40°	738.3	7.7
40°-50°	1194.0	12.5
50°-60°	2093.8	21.9
60°-70°	2619.9	27.4
70°-80°	1531.0	16.0
80°-90°	273.1	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°	9545.0	100.0
0°-180°	9545.0	100.0

**Coefficient of Utilization**



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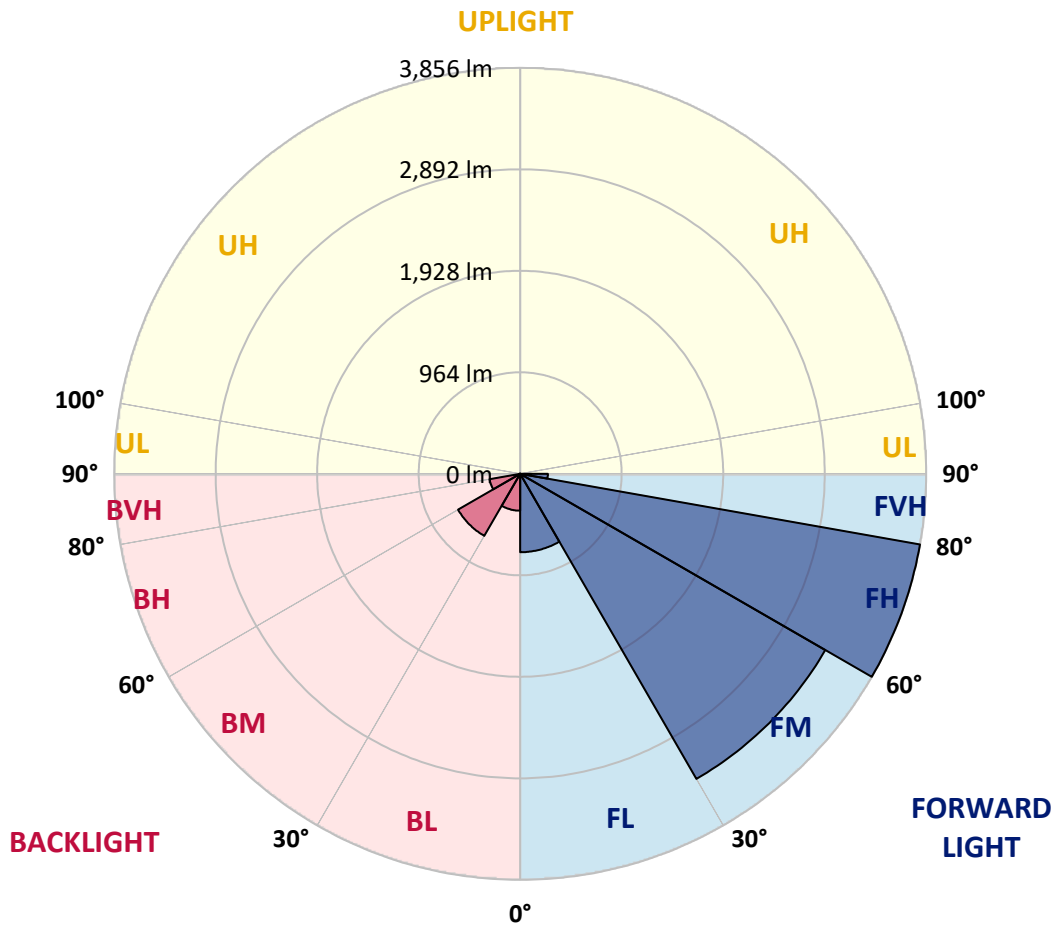
CATALOG NUMBER: GALN-SB4A-950-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.5	7.8			
FM (30°-60°)	3345.4	35.0			
FH (60°-80°)	3855.7	40.4			G2/5000
FVH (80°-90°)	262.7	2.8			G3/500
BL (0°-30°)	350.4	3.7	B1/500		
BM (30°-60°)	680.7	7.1	B1/1000		
BH (60°-80°)	295.2	3.1	B1/500		G1/500
BVH (80°-90°)	10.5	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°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1493.3	1467.7	1452.5	1415.0	1377.6	1347.3	1306.6	1279.6	1247.4	1216.5
5°	1664.3	1622.8	1572.9	1504.5	1442.0	1378.2	1316.4	1255.3	1190.8	1131.6
7.5°	1808.9	1749.1	1661.0	1570.2	1490.7	1413.7	1341.4	1260.5	1182.3	1089.6
10°	1919.4	1843.1	1727.4	1608.4	1517.0	1439.4	1369.0	1300.6	1221.7	1109.9
12.5°	1986.5	1904.9	1767.5	1628.1	1523.5	1436.7	1382.2	1351.9	1321.0	1209.9
15°	2035.8	1947.7	1795.8	1641.9	1508.4	1401.9	1361.8	1392.0	1427.5	1356.5
17.5°	2087.1	1994.4	1832.6	1647.8	1467.7	1334.2	1317.1	1395.3	1477.5	1474.2
20°	2135.7	2043.7	1864.8	1643.9	1401.9	1252.0	1267.1	1367.0	1462.4	1502.5
22.5°	2191.6	2094.3	1895.7	1628.8	1316.4	1175.0	1222.4	1322.3	1405.8	1453.2
25°	2260.0	2158.1	1939.1	1606.4	1224.4	1111.3	1177.0	1270.4	1338.1	1371.0
27.5°	2333.6	2234.4	1997.0	1594.6	1150.1	1065.9	1125.7	1208.6	1269.1	1292.1
30°	2425.0	2323.1	2065.4	1581.4	1101.4	1039.6	1072.5	1136.9	1196.1	1219.1
32.5°	2525.0	2421.8	2131.1	1549.8	1071.8	1019.9	1020.5	1061.3	1115.2	1142.8
35°	2649.9	2540.1	2201.5	1480.8	1048.1	996.8	969.9	989.6	1034.3	1067.2
37.5°	2828.1	2695.3	2287.6	1382.2	1013.3	961.3	916.6	921.2	955.4	991.6
40°	3074.0	2903.7	2388.9	1279.6	963.3	911.4	858.1	856.1	881.1	916.6
42.5°	3406.8	3179.3	2510.5	1181.6	915.3	850.9	796.3	793.0	812.7	843.6
45°	3846.0	3531.7	2659.8	1097.5	877.8	791.7	737.8	736.5	752.9	779.9
47.5°	4408.2	4021.6	2809.1	1040.2	858.1	745.0	689.8	692.4	706.9	731.2
50°	5136.1	4660.1	2854.4	1011.3	858.1	720.0	647.0	660.2	672.0	690.4
52.5°	6008.7	5272.9	2704.5	985.0	863.4	723.3	610.9	639.1	647.7	663.5
55°	6817.5	5573.4	2325.1	948.8	864.7	743.7	580.0	622.0	637.8	643.7
57.5°	7287.0	5470.2	1879.9	887.7	859.4	757.5	560.2	601.0	631.2	635.2
60°	7197.6	5107.9	1384.1	841.0	820.6	752.2	554.3	568.8	616.8	622.7
62.5°	6508.4	4500.3	960.7	804.8	735.1	729.2	552.3	518.2	585.2	599.7
65°	5231.5	3542.9	678.6	693.1	644.4	679.2	541.8	465.5	547.1	566.8
67.5°	3795.4	2397.4	489.9	561.5	583.9	598.4	518.2	427.4	503.7	530.0
70°	2435.6	1294.7	343.9	370.9	491.8	508.3	477.4	393.2	459.6	489.9
72.5°	1731.3	764.7	247.2	259.7	395.2	423.5	420.2	355.1	408.3	445.2
75°	1194.8	421.5	167.0	185.4	286.7	343.9	324.2	305.1	345.9	383.4
77.5°	749.0	188.7	99.9	128.9	188.1	270.3	222.3	236.1	269.6	304.4
80°	416.9	73.0	55.9	85.5	102.6	196.6	123.0	151.9	198.6	223.6
82.5°	90.7	9.2	25.0	36.8	40.1	114.4	65.1	88.1	124.9	123.0
85°	0.0	0.0	4.6	5.3	2.6	49.3	23.7	28.9	40.8	38.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°
1321.7	0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
1188.9	2.5°	1183.6	1151.4	1127.7	1115.9	1106.0	1115.2	1120.5	1120.5	1142.8	1156.0
1095.5	5°	1072.5	1014.6	970.5	941.0	923.2	929.1	935.7	942.9	971.2	990.3
1040.2	7.5°	995.5	906.8	839.7	798.3	776.6	779.9	784.5	790.4	818.0	837.1
1048.1	10°	981.1	853.5	758.8	704.2	677.9	673.3	670.7	668.7	685.2	699.6
1137.6	12.5°	1040.2	856.1	724.0	657.6	625.3	611.5	595.7	583.2	585.9	595.1
1273.0	15°	1146.1	889.7	712.8	633.2	593.1	570.1	551.7	536.6	533.3	536.6
1391.4	17.5°	1267.1	935.0	711.5	612.2	562.2	538.5	523.4	509.6	505.0	505.7
1457.8	20°	1347.3	971.2	707.5	588.5	532.6	511.6	498.4	484.6	480.0	481.3
1439.4	22.5°	1355.2	990.3	701.6	562.2	503.0	485.3	472.1	459.6	459.0	459.0
1370.3	25°	1312.5	990.3	689.1	538.5	474.8	459.0	447.1	432.0	434.6	436.0
1292.1	27.5°	1246.1	966.6	665.4	519.5	450.4	434.0	422.1	408.3	411.6	413.6
1219.1	30°	1180.3	936.4	637.2	497.8	427.4	408.3	399.8	388.0	389.3	391.9
1146.8	32.5°	1119.2	904.1	603.6	480.0	404.4	385.3	378.7	365.6	367.6	370.2
1075.8	35°	1058.7	868.6	564.2	459.0	383.4	364.3	359.0	343.9	345.2	349.2
1004.7	37.5°	993.6	831.1	532.0	437.9	363.0	343.2	338.0	322.2	323.5	328.1
931.1	40°	925.2	794.3	500.4	415.6	341.3	321.5	316.9	299.8	301.2	306.4
858.8	42.5°	856.1	754.2	476.1	386.6	318.9	297.9	293.3	277.5	279.5	285.4
795.6	45°	792.3	706.2	460.3	354.4	297.9	274.2	269.6	255.1	259.1	265.7
742.4	47.5°	737.8	656.9	453.7	327.5	275.5	249.9	245.9	234.1	240.7	247.9
697.0	50°	691.1	609.5	445.2	299.8	254.5	228.8	224.9	217.0	225.5	232.8
666.1	52.5°	657.6	555.6	426.8	274.9	236.1	211.1	209.8	205.8	213.7	220.3
643.1	55°	628.6	499.7	397.2	253.2	219.6	196.0	197.3	195.3	201.9	207.1
629.3	57.5°	602.3	451.1	359.7	236.1	201.9	182.8	186.7	184.1	187.4	190.7
614.8	60°	570.8	401.8	315.0	217.0	180.8	169.6	174.3	167.0	166.4	167.7
588.5	62.5°	524.1	335.4	268.3	193.3	162.4	155.2	157.2	143.3	132.8	132.8
549.7	65°	459.0	269.6	224.9	167.0	141.4	135.5	134.1	114.4	99.9	98.6
507.6	67.5°	383.4	221.6	186.7	140.7	117.7	113.8	115.1	100.6	86.1	84.8
465.5	70°	312.3	183.5	150.6	112.4	90.7	94.7	100.6	86.1	72.3	70.4
416.2	72.5°	253.8	146.0	117.7	86.1	67.1	78.2	85.5	70.4	57.2	55.9
355.1	75°	196.0	107.2	84.2	58.5	48.7	60.5	67.1	51.3	40.8	38.8
274.9	77.5°	130.9	66.4	47.3	36.8	28.9	41.4	44.7	27.0	23.7	23.0
199.9	80°	79.6	30.9	20.4	17.8	9.9	15.1	17.8	11.2	12.5	13.2
106.5	82.5°	40.1	8.5	3.3	0.7	0.0	0.0	5.3	2.6	5.3	6.6
28.9	85°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.3
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°
1321.7	0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
1161.2	2.5°	1198.1	1225.7	1252.0	1294.1	1337.5	1380.2	1423.6	1465.7	1480.8	1492.0
1002.8	5°	1060.0	1111.9	1172.4	1255.9	1345.3	1437.4	1530.8	1616.3	1655.1	1681.4
853.5	7.5°	917.3	985.0	1071.8	1197.4	1337.5	1484.1	1630.7	1765.5	1828.0	1878.6
712.8	10°	775.9	849.6	959.4	1102.7	1292.1	1502.5	1705.0	1890.5	1971.3	2035.1
611.5	12.5°	651.6	720.7	835.7	994.2	1221.1	1488.0	1747.8	1970.7	2066.0	2137.7
539.2	15°	564.2	612.8	714.8	885.7	1136.9	1441.4	1750.4	2008.8	2113.4	2188.3
508.9	17.5°	515.5	532.0	598.4	775.3	1043.5	1380.2	1726.1	2022.0	2133.8	2203.5
482.0	20°	489.2	491.8	510.3	631.9	923.9	1323.0	1703.1	2035.1	2152.8	2211.3
462.9	22.5°	468.2	468.2	472.8	516.8	769.3	1254.6	1695.8	2058.1	2179.1	2215.3
441.2	25°	449.1	449.1	450.4	462.3	609.5	1150.1	1691.2	2093.6	2215.3	2225.2
419.5	27.5°	429.4	430.0	430.0	436.6	491.2	1008.0	1671.5	2139.7	2258.7	2238.3
398.5	30°	409.7	411.0	411.0	415.6	434.6	841.7	1632.7	2194.9	2315.2	2255.4
377.4	32.5°	389.9	391.2	391.2	395.2	409.0	672.0	1584.0	2245.5	2372.4	2262.6
357.1	35°	369.5	371.5	370.2	375.5	389.9	534.6	1522.2	2296.2	2434.3	2285.6
337.3	37.5°	349.2	350.5	349.8	355.1	371.5	461.6	1450.6	2334.3	2518.4	2336.9
316.3	40°	328.8	328.1	328.1	334.0	351.8	440.6	1360.5	2394.8	2639.4	2427.0
295.2	42.5°	307.7	307.7	306.4	313.0	334.7	424.8	1274.3	2503.3	2815.6	2570.4
275.5	45°	288.7	288.0	285.4	291.3	318.3	397.2	1244.1	2705.8	3076.0	2802.5
255.8	47.5°	270.3	269.6	263.0	268.3	298.5	372.2	1357.2	3037.2	3437.0	3143.8
240.0	50°	253.8	254.5	242.0	246.6	278.8	353.1	1602.5	3467.3	3916.4	3603.4
226.9	52.5°	238.7	238.7	222.3	224.9	254.5	336.0	1835.9	3933.5	4548.9	4244.5
213.0	55°	223.6	222.3	203.8	205.2	230.1	311.7	1870.7	4388.5	5411.6	5209.1
197.9	57.5°	206.5	203.8	186.7	186.7	207.8	293.9	1621.5	4738.3	6482.1	6626.8
169.6	60°	185.4	183.5	172.3	169.0	190.0	309.7	1144.1	4779.1	7172.6	8512.0
134.8	62.5°	158.5	161.1	155.2	150.6	172.9	321.5	677.9	4451.0	7005.5	9111.7
104.6	65°	124.9	135.5	134.1	130.9	190.0	270.9	400.4	3821.0	6493.3	8627.7
91.4	67.5°	106.5	113.8	111.8	111.8	199.2	205.8	251.8	2985.3	5788.4	8053.7
76.3	70°	90.7	98.0	90.7	90.7	150.6	124.9	174.3	2084.4	5027.6	7418.5
61.2	72.5°	75.0	82.2	74.3	69.0	120.3	93.4	127.6	1302.6	4305.6	6757.0
43.4	75°	57.2	65.8	59.8	53.3	79.6	69.7	96.7	756.8	3567.2	5781.2
26.3	77.5°	36.2	47.3	44.7	37.5	58.5	50.6	69.7	450.4	2752.5	4517.4
15.8	80°	22.4	24.3	25.0	23.7	33.5	34.2	47.3	256.4	1883.9	3148.4
9.9	82.5°	14.5	14.5	11.2	12.5	16.4	19.7	27.0	96.7	1107.3	1916.8
5.9	85°	10.5	9.2	5.9	5.9	7.9	9.9	10.5	29.6	449.1	756.8
2.6	87.5°	5.3	4.6	2.0	2.6	3.9	3.3	2.6	1.3	113.1	242.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1321.7	0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
1517.0	2.5°	1530.1	1550.5	1551.8	1551.8	1534.1	1533.4	1497.2	1493.3
1740.5	5°	1801.7	1814.8	1818.1	1811.6	1776.0	1749.7	1679.4	1664.3
1968.7	7.5°	2050.2	2076.5	2076.5	2060.8	2002.9	1949.0	1847.1	1808.9
2157.4	10°	2248.8	2279.1	2272.5	2240.3	2167.3	2093.0	1969.4	1919.4
2271.8	12.5°	2345.5	2376.4	2359.3	2322.5	2251.5	2173.2	2043.0	1986.5
2304.7	15°	2343.5	2335.0	2317.2	2312.6	2278.4	2219.2	2097.6	2035.8
2284.3	17.5°	2260.0	2187.7	2173.9	2219.9	2263.3	2248.8	2144.9	2087.1
2235.7	20°	2127.8	2001.6	1989.1	2077.2	2200.8	2263.9	2189.0	2135.7
2165.3	22.5°	1988.4	1852.3	1823.4	1920.7	2106.8	2268.6	2244.9	2191.6
2087.7	25°	1856.3	1719.5	1690.6	1781.3	2002.2	2260.7	2305.4	2260.0
2013.4	27.5°	1745.8	1613.6	1586.7	1677.4	1901.6	2238.3	2365.9	2333.6
1939.8	30°	1660.3	1538.0	1518.3	1605.7	1814.8	2210.7	2442.8	2425.0
1871.4	32.5°	1610.3	1520.9	1528.1	1599.8	1768.2	2180.4	2516.4	2525.0
1837.9	35°	1659.7	1663.6	1726.7	1756.3	1811.6	2175.8	2616.4	2649.9
1878.0	37.5°	1904.9	2041.7	2172.5	2148.2	2023.9	2229.1	2765.7	2828.1
2052.9	40°	2322.5	2603.2	2815.6	2722.9	2409.9	2392.2	2980.7	3074.0
2363.2	42.5°	2832.7	3308.8	3658.6	3410.1	2907.7	2677.5	3287.8	3406.8
2738.7	45°	3371.3	4178.7	4729.8	4212.9	3438.3	3077.3	3752.6	3846.0
3090.5	47.5°	3938.7	5236.1	5948.9	5103.3	3930.2	3532.4	4386.5	4408.2
3423.9	50°	4559.5	6395.3	7191.6	5992.9	4404.9	4053.8	5161.1	5136.1
3812.5	52.5°	5150.6	7587.5	8408.1	6886.5	4821.8	4700.8	6060.0	6008.7
4343.8	55°	5714.8	8779.0	9631.8	7745.3	5215.0	5555.6	7127.9	6817.5
5109.8	57.5°	6369.0	9850.1	10893.0	8608.0	5764.7	6665.6	8322.0	7287.0
6576.8	60°	7336.3	11067.2	12319.2	9790.3	6810.3	7832.1	8750.0	7197.6
8333.8	62.5°	8571.2	12186.4	13356.2	10948.9	7860.4	8051.7	8119.4	6508.4
7975.4	65°	8811.2	12469.8	13414.7	11258.6	7724.9	6830.0	6628.8	5231.5
7123.9	67.5°	8174.7	11957.6	12596.7	10681.9	6833.3	5278.2	4974.4	3795.4
6565.0	70°	7460.6	10981.1	11171.1	9701.5	6010.0	3882.2	3359.4	2435.6
6182.3	72.5°	6728.7	9678.5	9285.3	8425.2	5282.1	2826.8	2423.1	1731.3
5637.2	75°	5859.4	7965.6	7313.9	7000.3	4373.4	2218.6	1753.0	1194.8
4848.8	77.5°	4692.3	5606.9	5432.7	5426.1	3286.4	1620.9	1169.8	749.0
3788.2	80°	3310.1	3638.9	3550.1	4086.7	2204.8	1175.7	704.2	416.9
2636.8	82.5°	1602.5	2012.1	2065.4	2433.6	1072.5	691.7	162.4	90.7
1031.0	85°	627.3	970.5	818.7	923.9	301.2	192.7	3.9	0.0
169.6	87.5°	70.4	112.4	103.2	81.5	36.8	7.9	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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