

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: P947928

Luminaire Tested: **GALN-SB3A-850-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947928  
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-SB3A-850-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

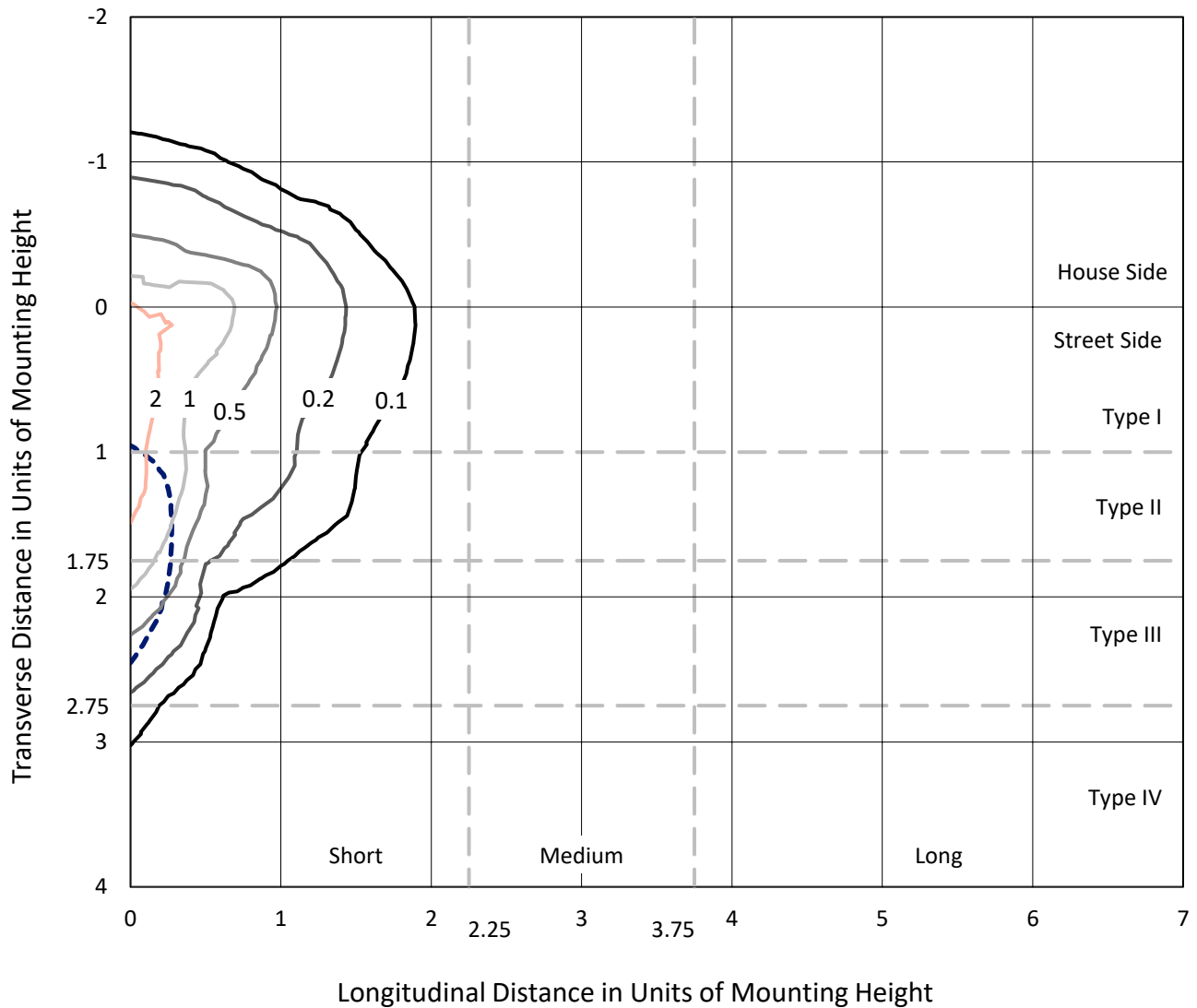
Lumens per Lamp: N/A  
Luminaire Lumens: 9825 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

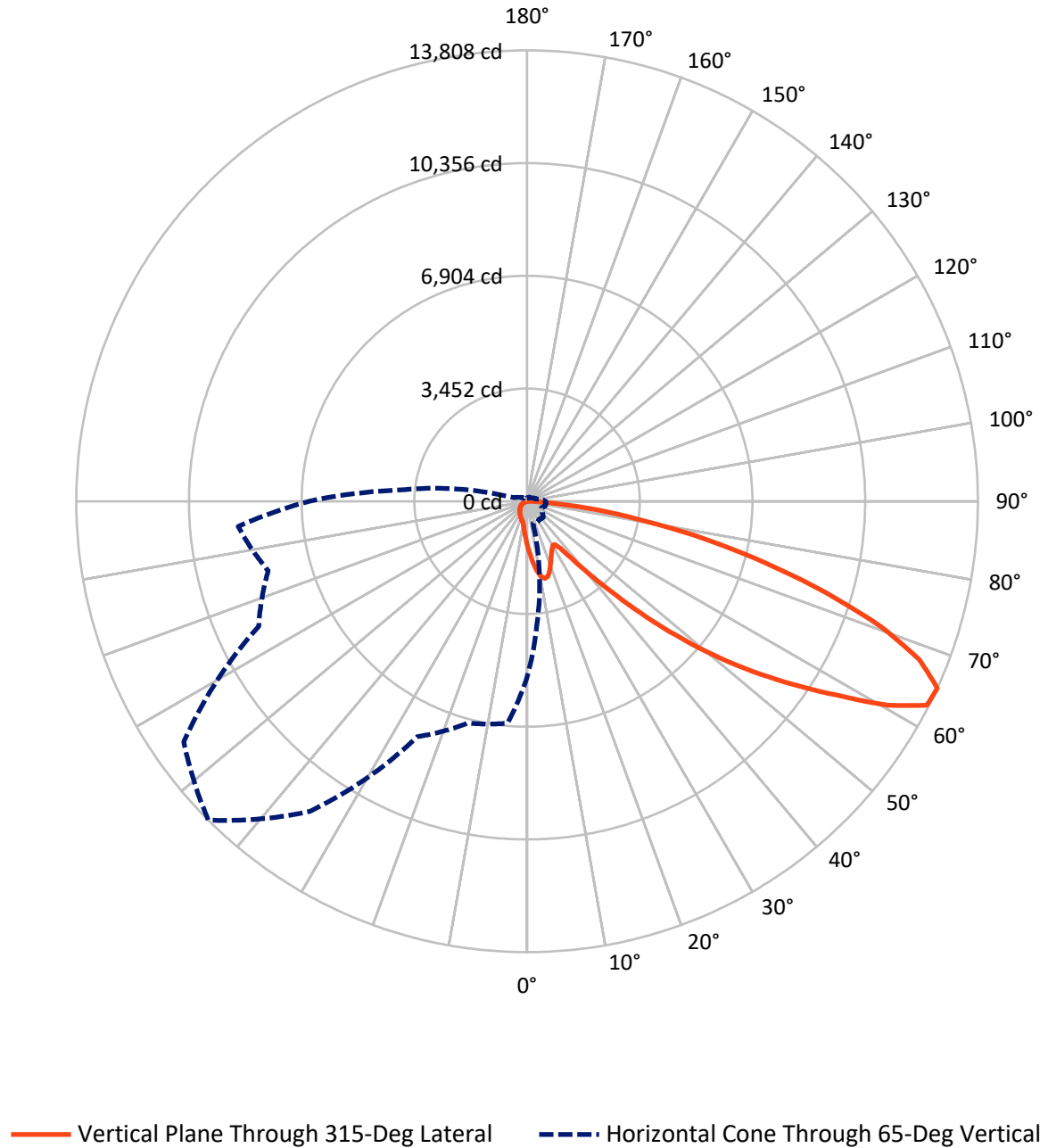
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1375.9	0.0	1375.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8449.1	0.0	8449.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9825.0	0.0	9825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.9	1.4
10°-20°	401.5	4.1
20°-30°	591.5	6.0
30°-40°	759.9	7.7
40°-50°	1229.0	12.5
50°-60°	2155.2	21.9
60°-70°	2696.8	27.4
70°-80°	1575.9	16.0
80°-90°	281.2	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°	9825.0	100.0
0°-180°	9825.0	100.0

**Coefficient of Utilization**



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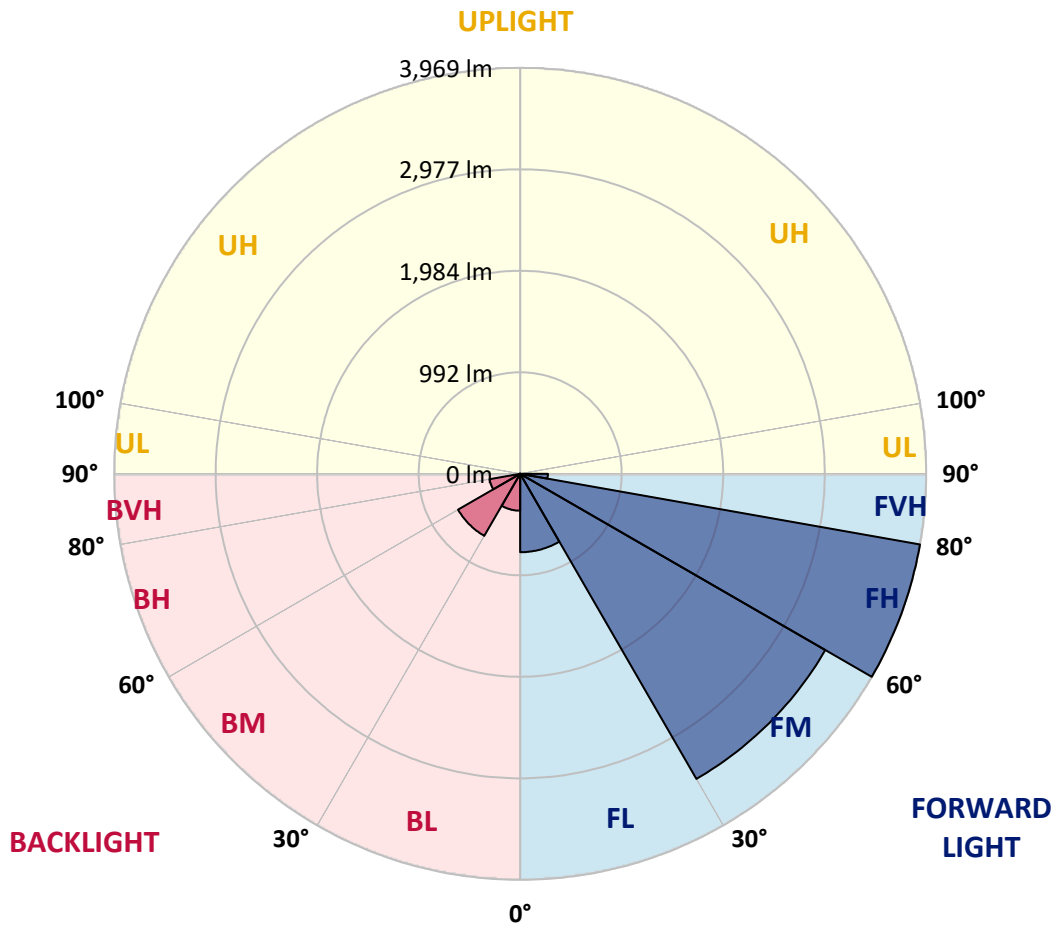
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.3	7.8			
FM (30°-60°)	3443.6	35.0			
FH (60°-80°)	3968.9	40.4			G2/5000
FVH (80°-90°)	270.4	2.8			G3/500
BL (0°-30°)	360.7	3.7	B1/500		
BM (30°-60°)	700.7	7.1	B1/1000		
BH (60°-80°)	303.8	3.1	B1/500		G1/500
BVH (80°-90°)	10.8	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°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
2.5°	1537.1	1510.7	1495.1	1456.6	1418.0	1386.8	1344.9	1317.1	1284.0	1252.2
5°	1713.1	1670.4	1619.0	1548.6	1484.3	1418.7	1355.0	1292.1	1225.8	1164.8
7.5°	1862.0	1800.4	1709.7	1616.3	1534.4	1455.2	1380.8	1297.5	1217.0	1121.5
10°	1975.7	1897.2	1778.1	1655.6	1561.5	1481.6	1409.2	1338.8	1257.6	1142.5
12.5°	2044.7	1960.8	1819.3	1675.9	1568.2	1478.9	1422.7	1391.6	1359.8	1245.4
15°	2095.5	2004.8	1848.4	1690.1	1552.7	1443.0	1401.7	1432.9	1469.4	1396.3
17.5°	2148.3	2052.9	1886.4	1696.2	1510.7	1373.3	1355.7	1436.3	1520.9	1517.5
20°	2198.4	2103.6	1919.5	1692.1	1443.0	1288.7	1304.3	1407.2	1505.3	1546.6
22.5°	2255.9	2155.7	1951.3	1676.5	1355.0	1209.5	1258.2	1361.1	1447.1	1495.8
25°	2326.3	2221.4	1996.0	1653.5	1260.3	1143.9	1211.5	1307.7	1377.4	1411.2
27.5°	2402.1	2299.9	2055.6	1641.3	1183.8	1097.2	1158.7	1244.0	1306.3	1330.0
30°	2496.2	2391.3	2126.0	1627.8	1133.7	1070.1	1103.9	1170.3	1231.2	1254.9
32.5°	2599.1	2492.8	2193.6	1595.3	1103.2	1049.8	1050.5	1092.4	1147.9	1176.3
35°	2727.7	2614.6	2266.1	1524.2	1078.9	1026.1	998.3	1018.6	1064.7	1098.5
37.5°	2911.1	2774.4	2354.7	1422.7	1043.0	989.5	943.5	948.3	983.4	1020.7
40°	3164.2	2988.9	2459.0	1317.1	991.6	938.1	883.3	881.2	907.0	943.5
42.5°	3506.7	3272.5	2584.2	1216.3	942.2	875.8	819.7	816.3	836.6	868.4
45°	3958.8	3635.3	2737.8	1129.6	903.6	814.9	759.4	758.1	775.0	802.7
47.5°	4537.5	4139.6	2891.5	1070.8	883.3	766.9	710.0	712.7	727.6	752.6
50°	5286.8	4796.8	2938.2	1041.0	883.3	741.1	666.0	679.5	691.7	710.7
52.5°	6185.0	5427.6	2783.8	1013.9	888.7	744.5	628.8	657.9	666.7	682.9
55°	7017.5	5736.9	2393.3	976.7	890.0	765.5	597.0	640.3	656.5	662.6
57.5°	7500.7	5630.6	1935.1	913.7	884.6	779.7	576.7	618.6	649.8	653.8
60°	7408.7	5257.7	1424.7	865.7	844.7	774.3	570.6	585.5	634.9	641.0
62.5°	6699.4	4632.3	988.9	828.5	756.7	750.6	568.5	533.3	602.4	617.3
65°	5384.9	3646.8	698.5	713.4	663.3	699.2	557.7	479.2	563.1	583.4
67.5°	3906.7	2467.8	504.2	578.0	601.0	615.9	533.3	439.9	518.5	545.5
70°	2507.0	1332.7	354.0	381.7	506.3	523.2	491.4	404.8	473.1	504.2
72.5°	1782.1	787.2	254.5	267.4	406.8	435.9	432.5	365.5	420.3	458.2
75°	1229.8	433.9	171.9	190.9	295.1	354.0	333.7	314.1	356.0	394.6
77.5°	770.9	194.3	102.9	132.7	193.6	278.2	228.8	243.0	277.5	313.4
80°	429.1	75.1	57.5	88.0	105.6	202.4	126.6	156.4	204.4	230.1
82.5°	93.4	9.5	25.7	37.9	41.3	117.8	67.0	90.7	128.6	126.6
85°	0.0	0.0	4.7	5.4	2.7	50.8	24.4	29.8	42.0	39.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1223.7	2.5°	1218.3	1185.1	1160.8	1148.6	1138.4	1147.9	1153.3	1153.3	1176.3	1189.9
1127.6	5°	1103.9	1044.4	999.0	968.6	950.3	956.4	963.1	970.6	999.7	1019.3
1070.8	7.5°	1024.7	933.4	864.3	821.7	799.3	802.7	807.5	813.6	842.0	861.6
1078.9	10°	1009.8	878.5	781.1	724.9	697.8	693.1	690.4	688.3	705.3	720.2
1170.9	12.5°	1070.8	881.2	745.2	676.8	643.7	629.5	613.2	600.4	603.1	612.5
1310.4	15°	1179.7	915.8	733.7	651.8	610.5	586.8	567.9	552.3	548.9	552.3
1432.2	17.5°	1304.3	962.5	732.3	630.1	578.7	554.3	538.8	524.6	519.8	520.5
1500.6	20°	1386.8	999.7	728.3	605.8	548.2	526.6	513.0	498.8	494.1	495.4
1481.6	22.5°	1395.0	1019.3	722.2	578.7	517.8	499.5	486.0	473.1	472.4	472.4
1410.5	25°	1351.0	1019.3	709.3	554.3	488.7	472.4	460.3	444.7	447.4	448.7
1330.0	27.5°	1282.6	995.0	685.0	534.7	463.6	446.7	434.5	420.3	423.7	425.7
1254.9	30°	1214.9	963.8	655.9	512.4	439.9	420.3	411.5	399.3	400.7	403.4
1180.4	32.5°	1152.0	930.7	621.3	494.1	416.3	396.6	389.9	376.3	378.4	381.1
1107.3	35°	1089.7	894.1	580.7	472.4	394.6	375.0	369.6	354.0	355.3	359.4
1034.2	37.5°	1022.7	855.5	547.6	450.8	373.6	353.3	347.9	331.7	333.0	337.7
958.4	40°	952.3	817.6	515.1	427.8	351.3	331.0	326.2	308.6	310.0	315.4
884.0	42.5°	881.2	776.3	490.0	398.0	328.3	306.6	301.9	285.6	287.7	293.7
819.0	45°	815.6	726.9	473.8	364.8	306.6	282.2	277.5	262.6	266.7	273.4
764.2	47.5°	759.4	676.2	467.0	337.1	283.6	257.2	253.1	241.0	247.7	255.2
717.5	50°	711.4	627.4	458.2	308.6	261.9	235.5	231.5	223.4	232.2	239.6
685.6	52.5°	676.8	571.9	439.3	282.9	243.0	217.3	215.9	211.9	220.0	226.7
661.9	55°	647.1	514.4	408.8	260.6	226.1	201.7	203.1	201.0	207.8	213.2
647.7	57.5°	620.0	464.3	370.2	243.0	207.8	188.2	192.2	189.5	192.9	196.3
632.8	60°	587.5	413.5	324.2	223.4	186.1	174.6	179.4	171.9	171.2	172.6
605.8	62.5°	539.4	345.2	276.2	199.0	167.2	159.7	161.8	147.6	136.7	136.7
565.8	65°	472.4	277.5	231.5	171.9	145.5	139.4	138.1	117.8	102.9	101.5
522.5	67.5°	394.6	228.1	192.2	144.8	121.2	117.1	118.4	103.6	88.7	87.3
479.2	70°	321.5	188.8	155.0	115.7	93.4	97.5	103.6	88.7	74.5	72.4
428.4	72.5°	261.3	150.3	121.2	88.7	69.0	80.5	88.0	72.4	58.9	57.5
365.5	75°	201.7	110.3	86.6	60.2	50.1	62.3	69.0	52.8	42.0	39.9
282.9	77.5°	134.7	68.4	48.7	37.9	29.8	42.6	46.0	27.8	24.4	23.7
205.8	80°	81.9	31.8	21.0	18.3	10.2	15.6	18.3	11.5	12.9	13.5
109.6	82.5°	41.3	8.8	3.4	0.7	0.0	0.0	5.4	2.7	5.4	6.8
29.8	85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4
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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1195.3	2.5°	1233.2	1261.6	1288.7	1332.0	1376.7	1420.7	1465.4	1508.7	1524.2	1535.7
1032.2	5°	1091.1	1144.5	1206.8	1292.8	1384.8	1479.6	1575.7	1663.7	1703.6	1730.7
878.5	7.5°	944.2	1013.9	1103.2	1232.5	1376.7	1527.6	1678.6	1817.3	1881.6	1933.7
733.7	10°	798.7	874.5	987.5	1135.1	1330.0	1546.6	1755.0	1945.9	2029.2	2094.8
629.5	12.5°	670.7	741.8	860.3	1023.4	1256.9	1531.7	1799.0	2028.5	2126.6	2200.4
555.0	15°	580.7	630.8	735.7	911.7	1170.3	1483.6	1801.7	2067.7	2175.4	2252.5
523.9	17.5°	530.6	547.6	615.9	798.0	1074.1	1420.7	1776.7	2081.3	2196.3	2268.1
496.1	20°	503.6	506.3	525.2	650.4	951.0	1361.8	1753.0	2094.8	2216.0	2276.2
476.5	22.5°	481.9	481.9	486.6	532.0	791.9	1291.4	1745.6	2118.5	2243.0	2280.3
454.2	25°	462.3	462.3	463.6	475.8	627.4	1183.8	1740.8	2155.1	2280.3	2290.4
431.8	27.5°	442.0	442.7	442.7	449.4	505.6	1037.6	1720.5	2202.4	2324.9	2304.0
410.2	30°	421.7	423.0	423.0	427.8	447.4	866.4	1680.6	2259.3	2383.2	2321.6
388.5	32.5°	401.4	402.7	402.7	406.8	421.0	691.7	1630.5	2311.4	2442.0	2329.0
367.5	35°	380.4	382.4	381.1	386.5	401.4	550.3	1566.9	2363.5	2505.7	2352.7
347.2	37.5°	359.4	360.8	360.1	365.5	382.4	475.1	1493.1	2402.8	2592.3	2405.5
325.6	40°	338.4	337.7	337.7	343.8	362.1	453.5	1400.4	2465.1	2716.8	2498.2
303.9	42.5°	316.8	316.8	315.4	322.2	344.5	437.2	1311.7	2576.7	2898.2	2645.8
283.6	45°	297.1	296.5	293.7	299.8	327.6	408.8	1280.6	2785.2	3166.3	2884.7
263.3	47.5°	278.2	277.5	270.7	276.2	307.3	383.1	1397.0	3126.3	3537.8	3236.0
247.0	50°	261.3	261.9	249.1	253.8	287.0	363.5	1649.5	3569.0	4031.3	3709.1
233.5	52.5°	245.7	245.7	228.8	231.5	261.9	345.9	1889.7	4048.9	4682.4	4369.0
219.3	55°	230.1	228.8	209.8	211.2	236.9	320.8	1925.6	4517.2	5570.4	5361.9
203.7	57.5°	212.5	209.8	192.2	192.2	213.9	302.5	1669.1	4877.3	6672.3	6821.2
174.6	60°	190.9	188.8	177.3	173.9	195.6	318.8	1177.7	4919.3	7383.0	8761.7
138.8	62.5°	163.1	165.8	159.7	155.0	178.0	331.0	697.8	4581.5	7211.1	9379.0
107.6	65°	128.6	139.4	138.1	134.7	195.6	278.9	412.2	3933.1	6683.8	8880.8
94.1	67.5°	109.6	117.1	115.1	115.1	205.1	211.9	259.2	3072.9	5958.2	8289.9
78.5	70°	93.4	100.8	93.4	93.4	155.0	128.6	179.4	2145.6	5175.1	7636.1
62.9	72.5°	77.2	84.6	76.5	71.1	123.9	96.1	131.3	1340.8	4431.9	6955.2
44.7	75°	58.9	67.7	61.6	54.8	81.9	71.7	99.5	779.0	3671.9	5950.8
27.1	77.5°	37.2	48.7	46.0	38.6	60.2	52.1	71.7	463.6	2833.3	4649.9
16.2	80°	23.0	25.0	25.7	24.4	34.5	35.2	48.7	264.0	1939.1	3240.7
10.2	82.5°	14.9	14.9	11.5	12.9	16.9	20.3	27.8	99.5	1139.8	1973.0
6.1	85°	10.8	9.5	6.1	6.1	8.1	10.2	10.8	30.5	462.3	779.0
2.7	87.5°	5.4	4.7	2.0	2.7	4.1	3.4	2.7	1.4	116.4	249.1
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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1561.5	2.5°	1575.0	1596.0	1597.3	1597.3	1579.1	1578.4	1541.2	1537.1
1791.6	5°	1854.5	1868.1	1871.5	1864.7	1828.1	1801.1	1728.6	1713.1
2026.5	7.5°	2110.4	2137.5	2137.5	2121.2	2061.7	2006.2	1901.2	1862.0
2220.7	10°	2314.8	2345.9	2339.2	2306.0	2230.9	2154.4	2027.1	1975.7
2338.5	12.5°	2414.3	2446.1	2428.5	2390.6	2317.5	2237.0	2102.9	2044.7
2372.3	15°	2412.3	2403.5	2385.2	2380.4	2345.3	2284.3	2159.1	2095.5
2351.3	17.5°	2326.3	2251.8	2237.6	2285.0	2329.7	2314.8	2207.9	2148.3
2301.3	20°	2190.3	2060.3	2047.4	2138.1	2265.4	2330.4	2253.2	2198.4
2228.8	22.5°	2046.8	1906.7	1876.9	1977.0	2168.6	2335.1	2310.7	2255.9
2149.0	25°	1910.7	1769.9	1740.2	1833.6	2061.0	2327.0	2373.0	2326.3
2072.5	27.5°	1797.0	1661.0	1633.2	1726.6	1957.4	2304.0	2435.3	2402.1
1996.7	30°	1709.0	1583.1	1562.8	1652.8	1868.1	2275.5	2514.5	2496.2
1926.3	32.5°	1657.6	1565.5	1573.0	1646.8	1820.0	2244.4	2590.3	2599.1
1891.8	35°	1708.3	1712.4	1777.4	1807.8	1864.7	2239.7	2693.1	2727.7
1933.1	37.5°	1960.8	2101.6	2236.3	2211.2	2083.3	2294.5	2846.8	2911.1
2113.1	40°	2390.6	2679.6	2898.2	2802.8	2480.6	2462.3	3068.1	3164.2
2432.6	42.5°	2915.8	3405.9	3765.9	3510.1	2993.0	2756.1	3384.2	3506.7
2819.0	45°	3470.2	4301.3	4868.5	4336.5	3539.2	3167.6	3862.7	3958.8
3181.1	47.5°	4054.3	5389.7	6123.4	5253.0	4045.5	3636.0	4515.2	4537.5
3524.3	50°	4693.2	6582.9	7402.6	6168.7	4534.2	4172.7	5312.5	5286.8
3924.3	52.5°	5301.7	7810.1	8654.8	7088.5	4963.3	4838.7	6237.8	6185.0
4471.2	55°	5882.4	9036.5	9914.4	7972.5	5368.0	5718.6	7336.9	7017.5
5259.7	57.5°	6555.9	10139.1	11212.5	8860.5	5933.9	6861.1	8566.1	7500.7
6769.8	60°	7551.5	11391.9	12680.6	10077.5	7010.0	8061.8	9006.7	7408.7
8578.3	62.5°	8822.6	12543.9	13748.0	11270.1	8090.9	8287.9	8357.6	6699.4
8209.4	65°	9069.7	12835.6	13808.2	11588.9	7951.5	7030.3	6823.2	5384.9
7332.9	67.5°	8414.5	12308.3	12966.2	10995.3	7033.7	5433.0	5120.3	3906.7
6757.6	70°	7679.4	11303.2	11498.8	9986.1	6186.3	3996.1	3458.0	2507.0
6363.6	72.5°	6926.1	9962.4	9557.7	8672.3	5437.1	2909.7	2494.2	1782.1
5802.5	75°	6031.3	8199.2	7528.5	7205.6	4501.7	2283.7	1804.5	1229.8
4991.0	77.5°	4829.9	5771.4	5592.1	5585.3	3382.8	1668.4	1204.1	770.9
3899.3	80°	3407.2	3745.6	3654.3	4206.6	2269.4	1210.2	724.9	429.1
2714.1	82.5°	1649.5	2071.1	2126.0	2505.0	1103.9	712.0	167.2	93.4
1061.3	85°	645.7	999.0	842.7	951.0	310.0	198.3	4.1	0.0
174.6	87.5°	72.4	115.7	106.3	83.9	37.9	8.1	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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