

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: P949440

Luminaire Tested: **GALN-SB4A-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949440  
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-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

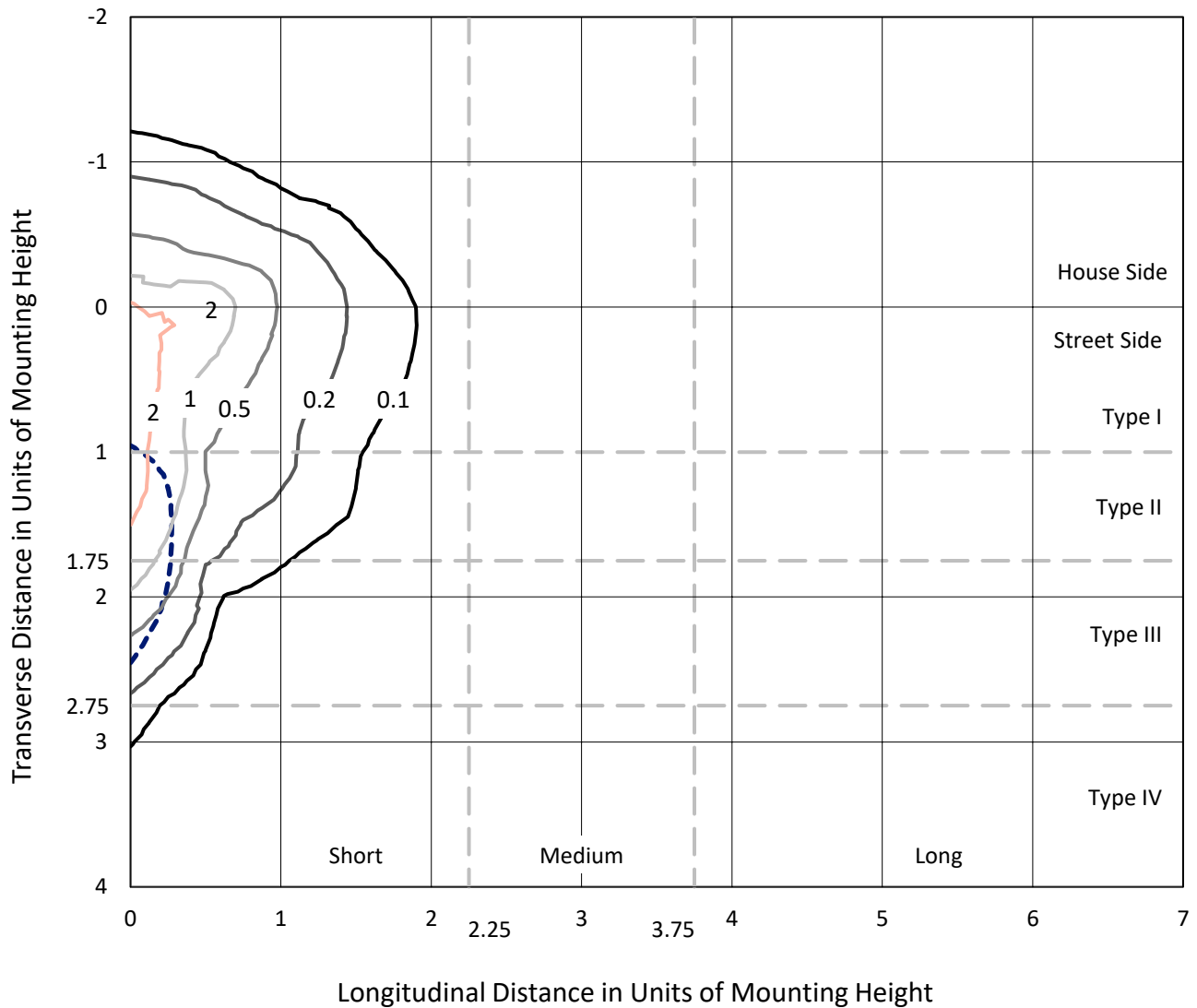
Lumens per Lamp: N/A  
Luminaire Lumens: 9942 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

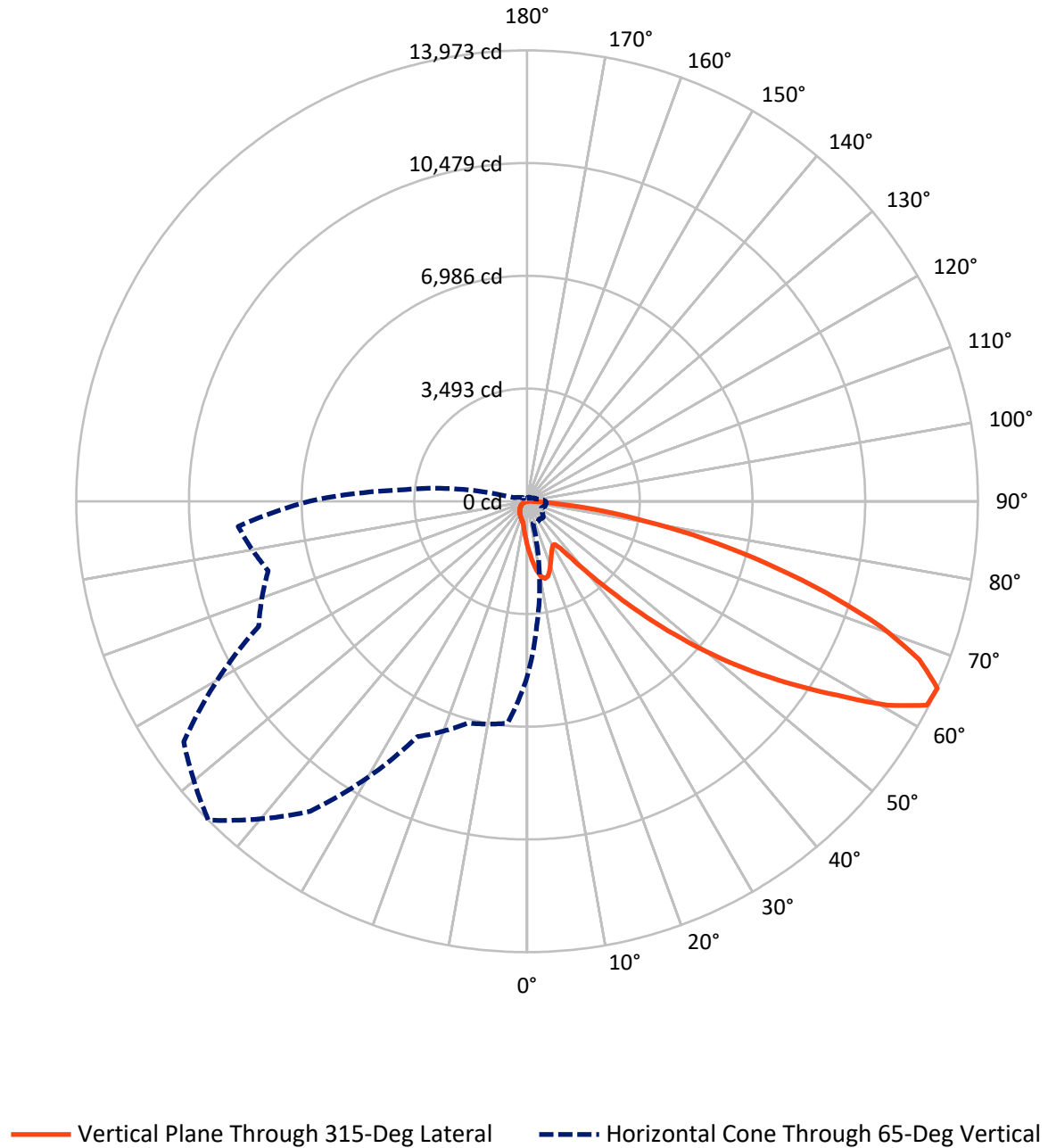
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1392.3	0.0	1392.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	8549.7	0.0	8549.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	9942.0	0.0	9942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	1.4
10°-20°	406.3	4.1
20°-30°	598.6	6.0
30°-40°	769.0	7.7
40°-50°	1243.7	12.5
50°-60°	2180.9	21.9
60°-70°	2728.9	27.4
70°-80°	1594.6	16.0
80°-90°	284.5	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°	9942.0	100.0
0°-180°	9942.0	100.0

**Coefficient of Utilization**



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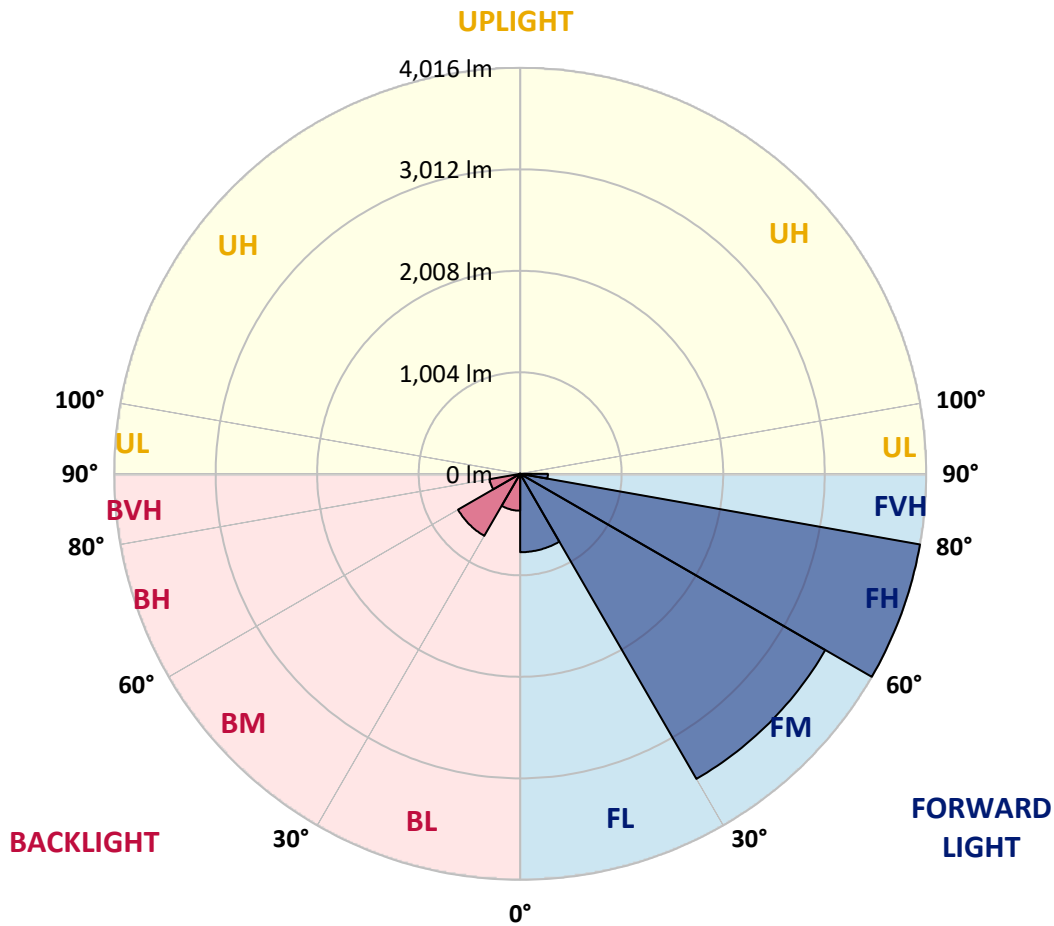
CATALOG NUMBER: GALN-SB4A-940-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.4	7.8			
FM (30°-60°)	3484.6	35.0			
FH (60°-80°)	4016.1	40.4			G2/5000
FVH (80°-90°)	273.6	2.8			G3/500
BL (0°-30°)	364.9	3.7	B1/500		
BM (30°-60°)	709.0	7.1	B1/1000		
BH (60°-80°)	307.4	3.1	B1/500		G1/500
BVH (80°-90°)	10.9	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°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
2.5°	1555.4	1528.7	1512.9	1473.9	1434.9	1403.4	1360.9	1332.8	1299.3	1267.1
5°	1733.5	1690.3	1638.3	1567.1	1502.0	1435.6	1371.2	1307.5	1240.4	1178.7
7.5°	1884.2	1821.8	1730.1	1635.5	1552.7	1472.5	1397.2	1313.0	1231.5	1134.9
10°	1999.2	1919.8	1799.2	1675.3	1580.1	1499.2	1426.0	1354.7	1272.5	1156.1
12.5°	2069.1	1984.2	1841.0	1695.8	1586.9	1496.5	1439.7	1408.2	1376.0	1260.2
15°	2120.5	2028.7	1870.5	1710.2	1571.2	1460.2	1418.4	1449.9	1486.9	1412.9
17.5°	2173.9	2077.3	1908.8	1716.4	1528.7	1389.7	1371.9	1453.4	1539.0	1535.5
20°	2224.6	2128.7	1942.4	1712.2	1460.2	1304.0	1319.8	1423.9	1523.2	1565.0
22.5°	2282.8	2181.4	1974.6	1696.5	1371.2	1223.9	1273.2	1377.3	1464.3	1513.6
25°	2354.0	2247.8	2019.8	1673.2	1275.3	1157.5	1226.0	1323.2	1393.8	1428.0
27.5°	2430.7	2327.3	2080.0	1660.9	1197.9	1110.2	1172.5	1258.8	1321.9	1345.8
30°	2525.9	2419.8	2151.3	1647.2	1147.2	1082.8	1117.1	1184.2	1245.8	1269.8
32.5°	2630.0	2522.5	2219.8	1614.3	1116.4	1062.3	1063.0	1105.4	1161.6	1190.4
35°	2760.1	2645.8	2293.0	1542.4	1091.7	1038.3	1010.2	1030.8	1077.3	1111.6
37.5°	2945.8	2807.4	2382.8	1439.7	1055.4	1001.3	954.8	959.5	995.2	1032.8
40°	3201.9	3024.5	2488.2	1332.8	1003.4	949.3	893.8	891.7	917.8	954.8
42.5°	3548.5	3311.5	2614.9	1230.8	953.4	886.3	829.4	826.0	846.5	878.7
45°	4006.0	3678.6	2770.4	1143.1	914.3	824.6	768.5	767.1	784.2	812.3
47.5°	4591.6	4188.8	2925.9	1083.5	893.8	776.0	718.5	721.2	736.3	761.6
50°	5349.8	4853.9	2973.2	1053.4	893.8	750.0	673.9	687.6	700.0	719.1
52.5°	6258.6	5492.2	2817.0	1026.0	899.3	753.4	636.3	665.7	674.6	691.1
55°	7101.0	5805.2	2421.8	988.3	900.6	774.6	604.1	647.9	664.4	670.5
57.5°	7590.1	5697.7	1958.1	924.6	895.2	789.0	583.5	626.0	657.5	661.6
60°	7496.9	5320.3	1441.7	876.0	854.8	783.5	577.4	592.4	642.4	648.6
62.5°	6779.1	4687.5	1000.6	838.3	765.7	759.6	575.3	539.7	609.6	624.6
65°	5449.1	3690.2	706.8	721.9	671.2	707.5	564.4	484.9	569.8	590.4
67.5°	3953.2	2497.1	510.3	584.9	608.2	623.3	539.7	445.2	524.6	552.0
70°	2536.9	1348.6	358.2	386.3	512.3	529.4	497.2	409.6	478.7	510.3
72.5°	1803.3	796.5	257.5	270.5	411.6	441.1	437.7	369.8	425.3	463.7
75°	1244.5	439.0	174.0	193.1	298.6	358.2	337.7	317.8	360.3	399.3
77.5°	780.1	196.6	104.1	134.2	195.9	281.5	231.5	245.9	280.8	317.1
80°	434.2	76.0	58.2	89.0	106.8	204.8	128.1	158.2	206.8	232.9
82.5°	94.5	9.6	26.0	38.4	41.8	119.2	67.8	91.8	130.1	128.1
85°	0.0	0.0	4.8	5.5	2.7	51.4	24.7	30.1	42.5	39.7
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°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1238.3	2.5°	1232.8	1199.3	1174.6	1162.3	1152.0	1161.6	1167.1	1167.1	1190.4	1204.1
1141.0	5°	1117.1	1056.8	1010.9	980.1	961.6	967.8	974.6	982.1	1011.6	1031.5
1083.5	7.5°	1036.9	944.5	874.6	831.5	808.9	812.3	817.1	823.2	852.0	871.9
1091.7	10°	1021.9	889.0	790.4	733.5	706.1	701.3	698.6	696.5	713.7	728.7
1184.9	12.5°	1083.5	891.7	754.1	684.9	651.3	637.0	620.5	607.5	610.2	619.8
1326.0	15°	1193.8	926.7	742.4	659.6	617.8	593.8	574.6	558.9	555.5	558.9
1449.2	17.5°	1319.8	973.9	741.1	637.6	585.6	560.9	545.2	530.8	526.0	526.7
1518.4	20°	1403.4	1011.6	737.0	613.0	554.8	532.9	519.2	504.8	500.0	501.3
1499.2	22.5°	1411.6	1031.5	730.8	585.6	523.9	505.5	491.8	478.7	478.1	478.1
1427.3	25°	1367.1	1031.5	717.8	560.9	494.5	478.1	465.7	450.0	452.7	454.1
1345.8	27.5°	1297.9	1006.8	693.1	541.1	469.2	452.0	439.7	425.3	428.7	430.8
1269.8	30°	1229.4	975.3	663.7	518.5	445.2	425.3	416.4	404.1	405.5	408.2
1194.5	32.5°	1165.7	941.7	628.7	500.0	421.2	401.4	394.5	380.8	382.9	385.6
1120.5	35°	1102.7	904.8	587.6	478.1	399.3	379.4	374.0	358.2	359.6	363.7
1046.5	37.5°	1034.9	865.7	554.1	456.1	378.1	357.5	352.0	335.6	337.0	341.8
969.8	40°	963.7	827.4	521.2	432.9	355.5	334.9	330.1	312.3	313.7	319.2
894.5	42.5°	891.7	785.6	495.9	402.7	332.2	310.3	305.5	289.0	291.1	297.2
828.7	45°	825.3	735.6	479.4	369.2	310.3	285.6	280.8	265.7	269.9	276.7
773.3	47.5°	768.5	684.2	472.6	341.1	287.0	260.3	256.2	243.8	250.7	258.2
726.0	50°	719.8	634.9	463.7	312.3	265.1	238.3	234.2	226.0	234.9	242.5
693.8	52.5°	684.9	578.7	444.5	286.3	245.9	219.9	218.5	214.4	222.6	229.4
669.8	55°	654.8	520.5	413.7	263.7	228.8	204.1	205.5	203.4	210.3	215.7
655.4	57.5°	627.4	469.8	374.6	245.9	210.3	190.4	194.5	191.8	195.2	198.6
640.4	60°	594.5	418.5	328.1	226.0	188.3	176.7	181.5	174.0	173.3	174.6
613.0	62.5°	545.9	349.3	279.4	201.4	169.2	161.6	163.7	149.3	138.3	138.3
572.6	65°	478.1	280.8	234.2	174.0	147.3	141.1	139.7	119.2	104.1	102.7
528.7	67.5°	399.3	230.8	194.5	146.6	122.6	118.5	119.9	104.8	89.7	88.4
484.9	70°	325.3	191.1	156.8	117.1	94.5	98.6	104.8	89.7	75.3	73.3
433.5	72.5°	264.4	152.0	122.6	89.7	69.9	81.5	89.0	73.3	59.6	58.2
369.8	75°	204.1	111.6	87.7	61.0	50.7	63.0	69.9	53.4	42.5	40.4
286.3	77.5°	136.3	69.2	49.3	38.4	30.1	43.1	46.6	28.1	24.7	24.0
208.2	80°	82.9	32.2	21.2	18.5	10.3	15.8	18.5	11.6	13.0	13.7
111.0	82.5°	41.8	8.9	3.4	0.7	0.0	0.0	5.5	2.7	5.5	6.8
30.1	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°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1209.5	2.5°	1247.9	1276.7	1304.0	1347.9	1393.1	1437.6	1482.8	1526.6	1542.4	1554.0
1044.5	5°	1104.1	1158.2	1221.2	1308.2	1401.3	1497.2	1594.4	1683.5	1723.9	1751.3
889.0	7.5°	955.4	1026.0	1116.4	1247.2	1393.1	1545.8	1698.6	1839.0	1904.0	1956.8
742.4	10°	808.2	884.9	999.3	1148.6	1345.8	1565.0	1775.9	1969.1	2053.3	2119.8
637.0	12.5°	678.7	750.7	870.5	1035.6	1271.9	1549.9	1820.5	2052.6	2152.0	2226.6
561.6	15°	587.6	638.3	744.5	922.6	1184.2	1501.3	1823.2	2092.4	2201.3	2279.3
530.1	17.5°	537.0	554.1	623.3	807.5	1086.9	1437.6	1797.9	2106.1	2222.5	2295.1
502.0	20°	509.6	512.3	531.5	658.2	962.3	1378.0	1773.9	2119.8	2242.4	2303.3
482.2	22.5°	487.6	487.6	492.4	538.3	801.3	1306.8	1766.4	2143.7	2269.8	2307.4
459.6	25°	467.8	467.8	469.2	481.5	634.9	1197.9	1761.6	2180.7	2307.4	2317.7
437.0	27.5°	447.2	447.9	447.9	454.8	511.6	1050.0	1741.0	2228.7	2352.6	2331.4
415.0	30°	426.7	428.1	428.1	432.9	452.7	876.7	1700.6	2286.2	2411.5	2349.2
393.1	32.5°	406.1	407.5	407.5	411.6	426.0	700.0	1649.9	2338.9	2471.1	2356.7
371.9	35°	384.9	387.0	385.6	391.1	406.1	556.8	1585.5	2391.7	2535.5	2380.7
351.4	37.5°	363.7	365.1	364.4	369.8	387.0	480.8	1510.9	2431.4	2623.2	2434.1
329.4	40°	342.4	341.8	341.8	347.9	366.4	458.9	1417.1	2494.4	2749.2	2528.0
307.5	42.5°	320.5	320.5	319.2	326.0	348.6	442.4	1327.3	2607.4	2932.7	2677.3
287.0	45°	300.7	300.0	297.2	303.4	331.5	413.7	1295.8	2818.4	3204.0	2919.0
266.4	47.5°	281.5	280.8	274.0	279.4	310.9	387.7	1413.6	3163.6	3580.0	3274.5
250.0	50°	264.4	265.1	252.0	256.8	290.4	367.8	1669.1	3611.5	4079.3	3753.3
236.3	52.5°	248.6	248.6	231.5	234.2	265.1	350.0	1912.2	4097.1	4738.1	4421.0
221.9	55°	232.9	231.5	212.3	213.7	239.7	324.6	1948.5	4571.0	5636.7	5425.8
206.2	57.5°	215.1	212.3	194.5	194.5	216.4	306.2	1689.0	4935.4	6751.7	6902.4
176.7	60°	193.1	191.1	179.4	176.0	197.9	322.6	1191.7	4977.9	7470.9	8866.0
140.4	62.5°	165.1	167.8	161.6	156.8	180.1	334.9	706.1	4636.1	7296.9	9490.7
108.9	65°	130.1	141.1	139.7	136.3	197.9	282.2	417.1	3980.0	6763.4	8986.6
95.2	67.5°	111.0	118.5	116.4	116.4	207.5	214.4	262.3	3109.4	6029.2	8388.7
79.4	70°	94.5	102.1	94.5	94.5	156.8	130.1	181.5	2171.1	5236.7	7727.0
63.7	72.5°	78.1	85.6	77.4	71.9	125.3	97.3	132.9	1356.8	4484.7	7038.0
45.2	75°	59.6	68.5	62.3	55.5	82.9	72.6	100.7	788.3	3715.6	6021.6
27.4	77.5°	37.7	49.3	46.6	39.0	61.0	52.7	72.6	469.2	2867.0	4705.3
16.4	80°	23.3	25.3	26.0	24.7	34.9	35.6	49.3	267.1	1962.2	3279.3
10.3	82.5°	15.1	15.1	11.6	13.0	17.1	20.5	28.1	100.7	1153.4	1996.5
6.2	85°	11.0	9.6	6.2	6.2	8.2	10.3	11.0	30.8	467.8	788.3
2.7	87.5°	5.5	4.8	2.1	2.7	4.1	3.4	2.7	1.4	117.8	252.0
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°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1580.1	2.5°	1593.8	1615.0	1616.4	1616.4	1597.9	1597.2	1559.5	1555.4
1812.9	5°	1876.6	1890.3	1893.7	1886.9	1849.9	1822.5	1749.2	1733.5
2050.6	7.5°	2135.5	2162.9	2162.9	2146.5	2086.2	2030.0	1923.9	1884.2
2247.2	10°	2342.4	2373.9	2367.0	2333.5	2257.4	2180.0	2051.3	1999.2
2366.3	12.5°	2443.0	2475.2	2457.4	2419.1	2345.1	2263.6	2128.0	2069.1
2400.6	15°	2441.0	2432.1	2413.6	2408.8	2373.2	2311.5	2184.8	2120.5
2379.3	17.5°	2354.0	2278.7	2264.3	2312.2	2357.4	2342.4	2234.1	2173.9
2328.7	20°	2216.3	2084.8	2071.8	2163.6	2292.4	2358.1	2280.0	2224.6
2255.4	22.5°	2071.1	1929.4	1899.2	2000.6	2194.4	2362.9	2338.2	2282.8
2174.6	25°	1933.5	1791.0	1760.9	1855.4	2085.5	2354.7	2401.3	2354.0
2097.2	27.5°	1818.4	1680.7	1652.7	1747.2	1980.7	2331.4	2464.3	2430.7
2020.5	30°	1729.4	1602.0	1581.4	1672.5	1890.3	2302.6	2544.4	2525.9
1949.2	32.5°	1677.3	1584.2	1591.7	1666.4	1841.7	2271.1	2621.1	2630.0
1914.3	35°	1728.7	1732.8	1798.5	1829.4	1886.9	2266.3	2725.2	2760.1
1956.1	37.5°	1984.2	2126.6	2262.9	2237.6	2108.1	2321.8	2880.7	2945.8
2138.3	40°	2419.1	2711.5	2932.7	2836.2	2510.2	2491.7	3104.7	3201.9
2461.5	42.5°	2950.5	3446.4	3810.8	3551.9	3028.6	2788.9	3424.5	3548.5
2852.6	45°	3511.5	4352.5	4926.5	4388.2	3581.3	3205.3	3908.7	4006.0
3219.0	47.5°	4102.6	5453.9	6196.3	5315.5	4093.6	3679.3	4569.0	4591.6
3566.3	50°	4749.1	6661.3	7490.8	6242.2	4588.1	4222.4	5375.8	5349.8
3971.0	52.5°	5364.8	7903.1	8757.8	7173.0	5022.4	4896.3	6312.0	6258.6
4524.4	55°	5952.5	9144.1	10032.4	8067.4	5431.9	5786.7	7424.3	7101.0
5322.4	57.5°	6633.9	10259.8	11346.1	8966.0	6004.5	6942.8	8668.1	7590.1
6850.4	60°	7641.4	11527.6	12831.6	10197.5	7093.5	8157.8	9114.0	7496.9
8680.4	62.5°	8927.7	12693.3	13911.7	11404.3	8187.3	8386.6	8457.1	6779.1
8307.2	65°	9177.7	12988.4	13972.6	11726.9	8046.2	7114.1	6904.5	5449.1
7420.2	67.5°	8514.7	12454.9	13120.6	11126.2	7117.5	5497.7	5181.3	3953.2
6838.0	70°	7770.9	11437.8	11635.8	10105.0	6260.0	4043.6	3499.2	2536.9
6439.4	72.5°	7008.6	10081.0	9671.5	8775.6	5501.8	2944.4	2523.9	1803.3
5871.6	75°	6103.1	8296.9	7618.1	7291.4	4555.3	2310.9	1825.9	1244.5
5050.5	77.5°	4887.4	5840.1	5658.6	5651.8	3423.1	1688.3	1218.4	780.1
3945.7	80°	3447.8	3790.2	3697.8	4256.7	2296.5	1224.6	733.5	434.2
2746.4	82.5°	1669.1	2095.8	2151.3	2534.8	1117.1	720.5	169.2	94.5
1073.9	85°	653.4	1010.9	852.7	962.3	313.7	200.7	4.1	0.0
176.7	87.5°	73.3	117.1	107.5	84.9	38.4	8.2	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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