

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: P946773

Luminaire Tested: **GALN-SB2B-827-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946773  
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-SB2B-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

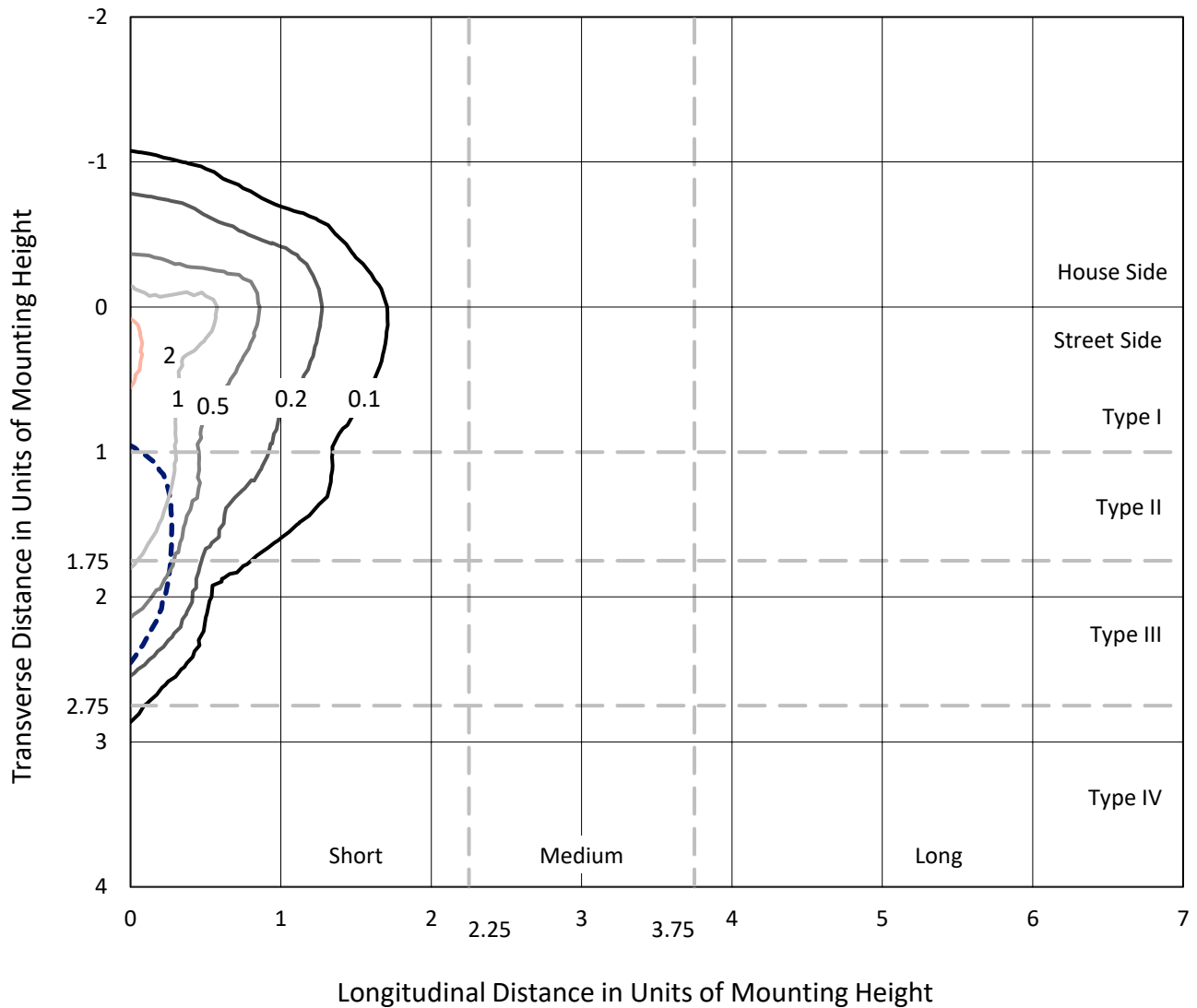
Lumens per Lamp: N/A  
Luminaire Lumens: 7473 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

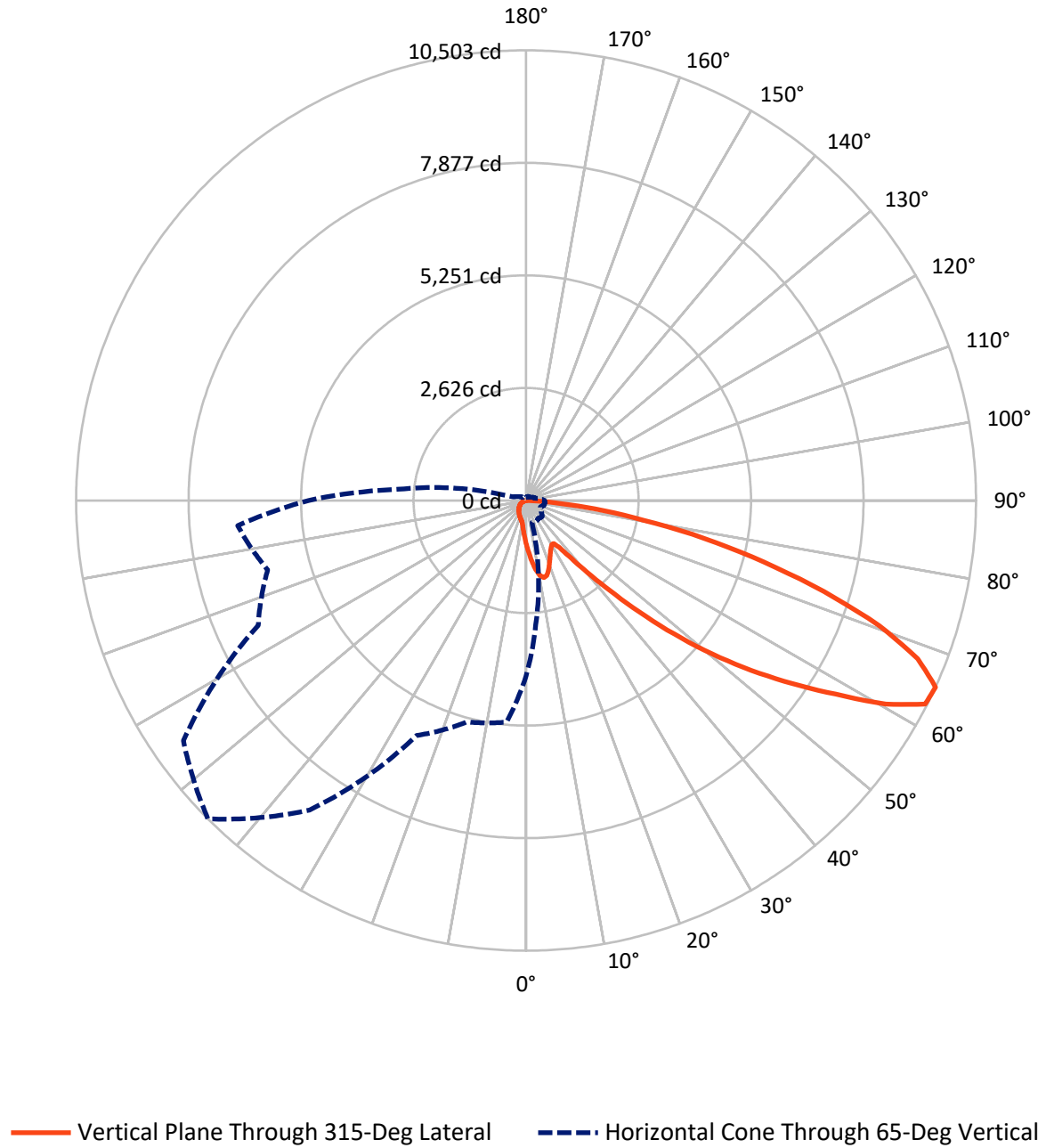
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1046.5	0.0	1046.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6426.5	0.0	6426.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7473.0	0.0	7473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	1.4
10°-20°	305.4	4.1
20°-30°	449.9	6.0
30°-40°	578.0	7.7
40°-50°	934.8	12.5
50°-60°	1639.3	21.9
60°-70°	2051.2	27.4
70°-80°	1198.6	16.0
80°-90°	213.9	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°	7473.0	100.0
0°-180°	7473.0	100.0

**Coefficient of Utilization**



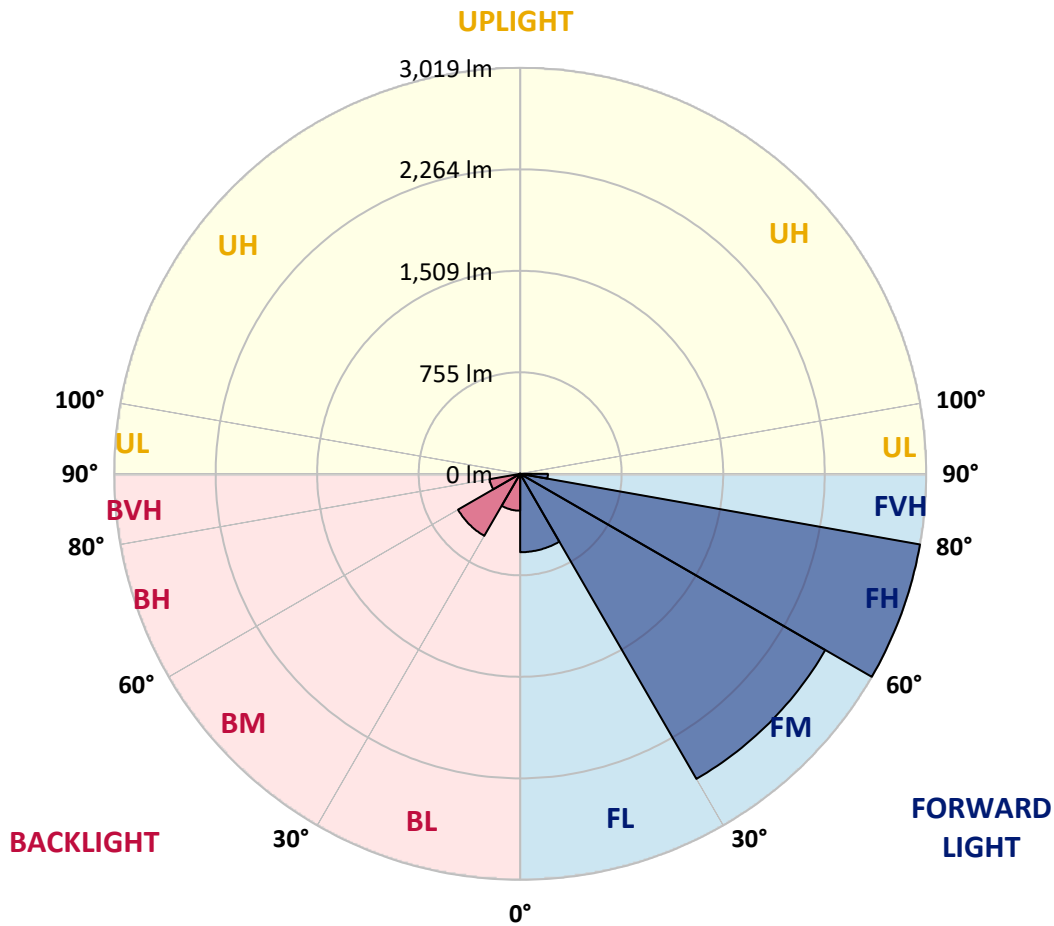
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.9	7.8			
FM (30°-60°)	2619.2	35.0			
FH (60°-80°)	3018.8	40.4			G2/5000
FVH (80°-90°)	205.6	2.8			G2/225
BL (0°-30°)	274.3	3.7	B1/500		
BM (30°-60°)	532.9	7.1	B1/1000		
BH (60°-80°)	231.1	3.1	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
2.5°	1169.1	1149.1	1137.2	1107.9	1078.5	1054.8	1022.9	1001.8	976.6	952.4
5°	1303.0	1270.6	1231.4	1177.9	1129.0	1079.0	1030.7	982.8	932.3	886.0
7.5°	1416.2	1369.4	1300.4	1229.4	1167.1	1106.8	1050.2	986.9	925.6	853.0
10°	1502.7	1443.0	1352.4	1259.2	1187.7	1126.9	1071.8	1018.3	956.5	869.0
12.5°	1555.2	1491.4	1383.8	1274.7	1192.8	1124.9	1082.1	1058.5	1034.3	947.3
15°	1593.9	1524.9	1406.0	1285.5	1181.0	1097.6	1066.2	1089.9	1117.7	1062.1
17.5°	1634.0	1561.4	1434.8	1290.1	1149.1	1044.6	1031.2	1092.4	1156.8	1154.2
20°	1672.1	1600.0	1460.0	1287.0	1097.6	980.2	992.0	1070.3	1144.9	1176.3
22.5°	1715.9	1639.7	1484.2	1275.2	1030.7	920.0	957.0	1035.3	1100.7	1137.7
25°	1769.4	1689.6	1518.2	1257.7	958.6	870.0	921.5	994.6	1047.6	1073.4
27.5°	1827.1	1749.3	1563.5	1248.4	900.4	834.5	881.4	946.2	993.6	1011.6
30°	1898.6	1818.8	1617.0	1238.1	862.3	813.9	839.7	890.1	936.4	954.5
32.5°	1976.9	1896.1	1668.5	1213.4	839.1	798.5	799.0	830.9	873.1	894.7
35°	2074.7	1988.7	1723.6	1159.4	820.6	780.5	759.3	774.8	809.8	835.5
37.5°	2214.2	2110.2	1791.0	1082.1	793.3	752.7	717.6	721.3	748.0	776.3
40°	2406.7	2273.4	1870.3	1001.8	754.2	713.5	671.8	670.3	689.8	717.6
42.5°	2667.2	2489.1	1965.6	925.1	716.6	666.2	623.4	620.9	636.3	660.5
45°	3011.1	2765.1	2082.4	859.2	687.3	619.8	577.6	576.6	589.5	610.6
47.5°	3451.3	3148.6	2199.3	814.4	671.8	583.3	540.0	542.1	553.4	572.5
50°	4021.2	3648.5	2234.8	791.8	671.8	563.7	506.6	516.9	526.1	540.6
52.5°	4704.3	4128.3	2117.4	771.2	675.9	566.3	478.3	500.4	507.1	519.4
55°	5337.6	4363.5	1820.4	742.9	677.0	582.3	454.1	487.0	499.4	504.0
57.5°	5705.1	4282.7	1471.8	695.0	672.9	593.1	438.6	470.5	494.2	497.3
60°	5635.1	3999.1	1083.7	658.4	642.5	588.9	434.0	445.3	482.9	487.5
62.5°	5095.6	3523.4	752.1	630.1	575.6	570.9	432.4	405.7	458.2	469.5
65°	4095.8	2773.8	531.3	542.6	504.5	531.8	424.2	364.5	428.3	443.8
67.5°	2971.5	1877.0	383.5	439.6	457.2	468.5	405.7	334.6	394.3	414.9
70°	1906.9	1013.7	269.2	290.4	385.1	397.9	373.8	307.9	359.9	383.5
72.5°	1355.5	598.7	193.6	203.4	309.4	331.5	329.0	278.0	319.7	348.5
75°	935.4	330.0	130.8	145.2	224.5	269.2	253.8	238.9	270.8	300.1
77.5°	586.4	147.8	78.3	100.9	147.2	211.6	174.0	184.8	211.1	238.4
80°	326.4	57.1	43.8	66.9	80.3	153.9	96.3	118.9	155.5	175.0
82.5°	71.0	7.2	19.6	28.8	31.4	89.6	51.0	69.0	97.8	96.3
85°	0.0	0.0	3.6	4.1	2.1	38.6	18.5	22.7	31.9	29.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
930.8	2.5°	926.7	901.4	882.9	873.6	865.9	873.1	877.2	877.2	894.7	905.0
857.7	5°	839.7	794.4	759.9	736.7	722.8	727.4	732.6	738.2	760.4	775.3
814.4	7.5°	779.4	709.9	657.4	625.0	608.0	610.6	614.2	618.8	640.4	655.4
820.6	10°	768.1	668.2	594.1	551.4	530.8	527.2	525.1	523.6	536.4	547.8
890.6	12.5°	814.4	670.3	566.8	514.8	489.6	478.8	466.4	456.6	458.7	465.9
996.7	15°	897.3	696.5	558.1	495.8	464.4	446.3	431.9	420.1	417.5	420.1
1089.3	17.5°	992.0	732.1	557.0	479.3	440.2	421.6	409.8	399.0	395.4	395.9
1141.3	20°	1054.8	760.4	553.9	460.8	417.0	400.5	390.2	379.4	375.8	376.8
1126.9	22.5°	1061.0	775.3	549.3	440.2	393.8	379.9	369.6	359.9	359.3	359.3
1072.9	25°	1027.6	775.3	539.5	421.6	371.7	359.3	350.1	338.2	340.3	341.3
1011.6	27.5°	975.6	756.8	521.0	406.7	352.6	339.8	330.5	319.7	322.3	323.8
954.5	30°	924.1	733.1	498.9	389.7	334.6	319.7	313.0	303.7	304.8	306.8
897.8	32.5°	876.2	707.9	472.6	375.8	316.6	301.7	296.5	286.2	287.8	289.8
842.2	35°	828.8	680.1	441.7	359.3	300.1	285.2	281.1	269.2	270.3	273.4
786.6	37.5°	777.9	650.7	416.5	342.9	284.2	268.7	264.6	252.3	253.3	256.9
729.0	40°	724.3	621.9	391.8	325.4	267.2	251.7	248.1	234.8	235.8	239.9
672.3	42.5°	670.3	590.5	372.7	302.7	249.7	233.2	229.6	217.3	218.8	223.4
622.9	45°	620.3	552.9	360.4	277.5	233.2	214.7	211.1	199.7	202.8	208.0
581.2	47.5°	577.6	514.3	355.2	256.4	215.7	195.6	192.5	183.3	188.4	194.1
545.7	50°	541.1	477.2	348.5	234.8	199.2	179.2	176.1	169.9	176.6	182.2
521.5	52.5°	514.8	435.0	334.1	215.2	184.8	165.3	164.2	161.1	167.3	172.5
503.5	55°	492.2	391.3	310.9	198.2	171.9	153.4	154.4	152.9	158.0	162.2
492.7	57.5°	471.6	353.2	281.6	184.8	158.0	143.1	146.2	144.1	146.7	149.3
481.3	60°	446.9	314.5	246.6	169.9	141.6	132.8	136.4	130.8	130.2	131.3
460.8	62.5°	410.3	262.6	210.0	151.4	127.2	121.5	123.0	112.2	104.0	104.0
430.4	65°	359.3	211.1	176.1	130.8	110.7	106.1	105.0	89.6	78.3	77.2
397.4	67.5°	300.1	173.5	146.2	110.2	92.2	89.1	90.1	78.8	67.4	66.4
364.5	70°	244.5	143.6	117.9	88.0	71.0	74.1	78.8	67.4	56.6	55.1
325.9	72.5°	198.7	114.3	92.2	67.4	52.5	61.3	66.9	55.1	44.8	43.8
278.0	75°	153.4	83.9	65.9	45.8	38.1	47.4	52.5	40.2	31.9	30.4
215.2	77.5°	102.4	52.0	37.1	28.8	22.7	32.4	35.0	21.1	18.5	18.0
156.5	80°	62.3	24.2	16.0	13.9	7.7	11.8	13.9	8.8	9.8	10.3
83.4	82.5°	31.4	6.7	2.6	0.5	0.0	0.0	4.1	2.1	4.1	5.1
22.7	85°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6
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°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
909.2	2.5°	938.0	959.6	980.2	1013.1	1047.1	1080.6	1114.6	1147.5	1159.4	1168.1
785.1	5°	829.9	870.5	917.9	983.3	1053.3	1125.4	1198.5	1265.4	1295.8	1316.4
668.2	7.5°	718.2	771.2	839.1	937.5	1047.1	1161.9	1276.7	1382.3	1431.2	1470.8
558.1	10°	607.5	665.1	751.1	863.3	1011.6	1176.3	1334.9	1480.1	1543.4	1593.3
478.8	12.5°	510.2	564.2	654.3	778.4	956.0	1165.0	1368.4	1542.9	1617.5	1673.7
422.1	15°	441.7	479.8	559.6	693.5	890.1	1128.5	1370.4	1572.7	1654.6	1713.3
398.5	17.5°	403.6	416.5	468.5	607.0	817.0	1080.6	1351.4	1583.0	1670.6	1725.1
377.4	20°	383.0	385.1	399.5	494.7	723.3	1035.8	1333.4	1593.3	1685.5	1731.3
362.4	22.5°	366.5	366.5	370.1	404.6	602.3	982.3	1327.7	1611.4	1706.1	1734.4
345.4	25°	351.6	351.6	352.6	361.9	477.2	900.4	1324.1	1639.2	1734.4	1742.1
328.4	27.5°	336.2	336.7	336.7	341.8	384.6	789.2	1308.7	1675.2	1768.4	1752.4
312.0	30°	320.7	321.8	321.8	325.4	340.3	659.0	1278.3	1718.4	1812.7	1765.8
295.5	32.5°	305.3	306.3	306.3	309.4	320.2	526.1	1240.2	1758.1	1857.4	1771.5
279.5	35°	289.3	290.9	289.8	294.0	305.3	418.5	1191.8	1797.7	1905.8	1789.5
264.1	37.5°	273.4	274.4	273.9	278.0	290.9	361.4	1135.7	1827.6	1971.7	1829.6
247.6	40°	257.4	256.9	256.9	261.5	275.4	344.9	1065.1	1874.9	2066.5	1900.2
231.2	42.5°	240.9	240.9	239.9	245.1	262.0	332.6	997.7	1959.9	2204.4	2012.4
215.7	45°	226.0	225.5	223.4	228.1	249.2	310.9	974.0	2118.4	2408.3	2194.1
200.3	47.5°	211.6	211.1	205.9	210.0	233.7	291.4	1062.6	2377.9	2690.9	2461.3
187.9	50°	198.7	199.2	189.5	193.1	218.3	276.5	1254.6	2714.6	3066.2	2821.2
177.6	52.5°	186.9	186.9	174.0	176.1	199.2	263.1	1437.4	3079.6	3561.5	3323.1
166.8	55°	175.0	174.0	159.6	160.6	180.2	244.0	1464.6	3435.9	4236.9	4078.3
155.0	57.5°	161.7	159.6	146.2	146.2	162.7	230.1	1269.5	3709.7	5075.0	5188.3
132.8	60°	145.2	143.6	134.9	132.3	148.8	242.5	895.8	3741.7	5615.6	6664.2
105.5	62.5°	124.1	126.1	121.5	117.9	135.4	251.7	530.8	3484.8	5484.8	7133.7
81.9	65°	97.8	106.1	105.0	102.4	148.8	212.1	313.5	2991.6	5083.8	6754.8
71.6	67.5°	83.4	89.1	87.5	87.5	156.0	161.1	197.2	2337.2	4531.9	6305.4
59.7	70°	71.0	76.7	71.0	71.0	117.9	97.8	136.4	1632.0	3936.2	5808.1
47.9	72.5°	58.7	64.4	58.2	54.1	94.2	73.1	99.9	1019.8	3371.0	5290.2
34.0	75°	44.8	51.5	46.8	41.7	62.3	54.6	75.7	592.5	2792.9	4526.2
20.6	77.5°	28.3	37.1	35.0	29.3	45.8	39.6	54.6	352.6	2155.0	3536.8
12.4	80°	17.5	19.0	19.6	18.5	26.3	26.8	37.1	200.8	1474.9	2464.9
7.7	82.5°	11.3	11.3	8.8	9.8	12.9	15.4	21.1	75.7	866.9	1500.7
4.6	85°	8.2	7.2	4.6	4.6	6.2	7.7	8.2	23.2	351.6	592.5
2.1	87.5°	4.1	3.6	1.5	2.1	3.1	2.6	2.1	1.0	88.5	189.5
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°
1034.8	0°	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8	1034.8
1187.7	2.5°	1198.0	1213.9	1215.0	1215.0	1201.1	1200.5	1172.2	1169.1
1362.7	5°	1410.6	1420.9	1423.5	1418.3	1390.5	1369.9	1314.8	1303.0
1541.3	7.5°	1605.2	1625.8	1625.8	1613.4	1568.1	1525.9	1446.1	1416.2
1689.1	10°	1760.7	1784.3	1779.2	1754.0	1696.8	1638.6	1541.9	1502.7
1778.7	12.5°	1836.3	1860.5	1847.1	1818.3	1762.7	1701.5	1599.5	1555.2
1804.4	15°	1834.8	1828.1	1814.2	1810.6	1783.8	1737.5	1642.2	1593.9
1788.5	17.5°	1769.4	1712.8	1702.0	1738.0	1772.0	1760.7	1679.3	1634.0
1750.4	20°	1665.9	1567.1	1557.3	1626.3	1723.1	1772.5	1713.8	1672.1
1695.3	22.5°	1556.8	1450.2	1427.6	1503.8	1649.5	1776.1	1757.6	1715.9
1634.5	25°	1453.3	1346.2	1323.6	1394.6	1567.6	1769.9	1804.9	1769.4
1576.4	27.5°	1366.8	1263.3	1242.2	1313.3	1488.8	1752.4	1852.3	1827.1
1518.7	30°	1299.9	1204.1	1188.7	1257.2	1420.9	1730.8	1912.5	1898.6
1465.2	32.5°	1260.8	1190.8	1196.4	1252.5	1384.3	1707.1	1970.2	1976.9
1438.9	35°	1299.4	1302.5	1351.9	1375.1	1418.3	1703.5	2048.4	2074.7
1470.3	37.5°	1491.4	1598.5	1700.9	1681.9	1584.6	1745.2	2165.3	2214.2
1607.2	40°	1818.3	2038.1	2204.4	2131.8	1886.8	1872.9	2333.6	2406.7
1850.2	42.5°	2217.8	2590.5	2864.4	2669.8	2276.5	2096.3	2574.1	2667.2
2144.2	45°	2639.4	3271.6	3703.0	3298.4	2692.0	2409.3	2938.0	3011.1
2419.6	47.5°	3083.7	4099.4	4657.5	3995.5	3077.0	2765.6	3434.3	3451.3
2680.6	50°	3569.7	5007.1	5630.5	4692.0	3448.7	3173.8	4040.8	4021.2
2984.9	52.5°	4032.5	5940.4	6582.9	5391.6	3775.1	3680.4	4744.5	4704.3
3400.8	55°	4474.2	6873.3	7541.0	6064.0	4083.0	4349.6	5580.6	5337.6
4000.6	57.5°	4986.5	7711.9	8528.4	6739.4	4513.4	5218.6	6515.5	5705.1
5149.1	60°	5743.8	8664.8	9645.0	7665.0	5331.9	6131.9	6850.6	5635.1
6524.7	62.5°	6710.6	9541.0	10456.9	8572.1	6154.1	6303.9	6356.9	5095.6
6244.2	65°	6898.5	9762.9	10502.7	8814.6	6048.0	5347.3	5189.8	4095.8
5577.5	67.5°	6400.1	9361.8	9862.2	8363.1	5349.9	4132.4	3894.6	2971.5
5139.9	70°	5841.1	8597.4	8746.1	7595.5	4705.4	3039.4	2630.2	1906.9
4840.3	72.5°	5268.1	7577.5	7269.7	6596.3	4135.5	2213.2	1897.1	1355.5
4413.5	75°	4587.5	6236.4	5726.2	5480.7	3424.0	1737.0	1372.5	935.4
3796.2	77.5°	3673.7	4389.8	4253.4	4248.2	2573.0	1269.0	915.8	586.4
2965.8	80°	2591.6	2849.0	2779.5	3199.6	1726.2	920.5	551.4	326.4
2064.4	82.5°	1254.6	1575.3	1617.0	1905.3	839.7	541.6	127.2	71.0
807.2	85°	491.1	759.9	640.9	723.3	235.8	150.8	3.1	0.0
132.8	87.5°	55.1	88.0	80.8	63.8	28.8	6.2	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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