

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: P947844

Luminaire Tested: **GALN-SB3A-827-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947844  
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-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

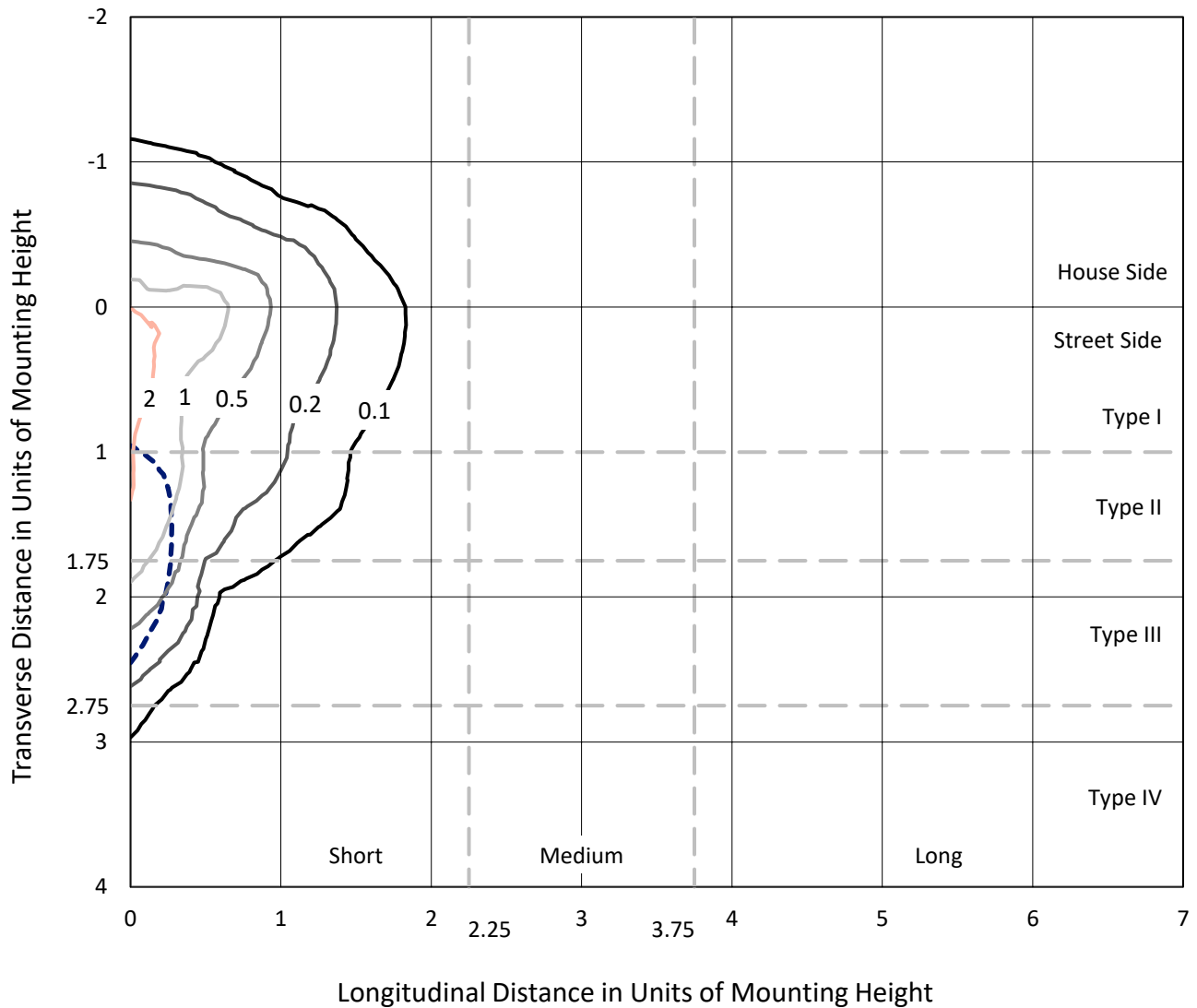
Lumens per Lamp: N/A  
Luminaire Lumens: 8932 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

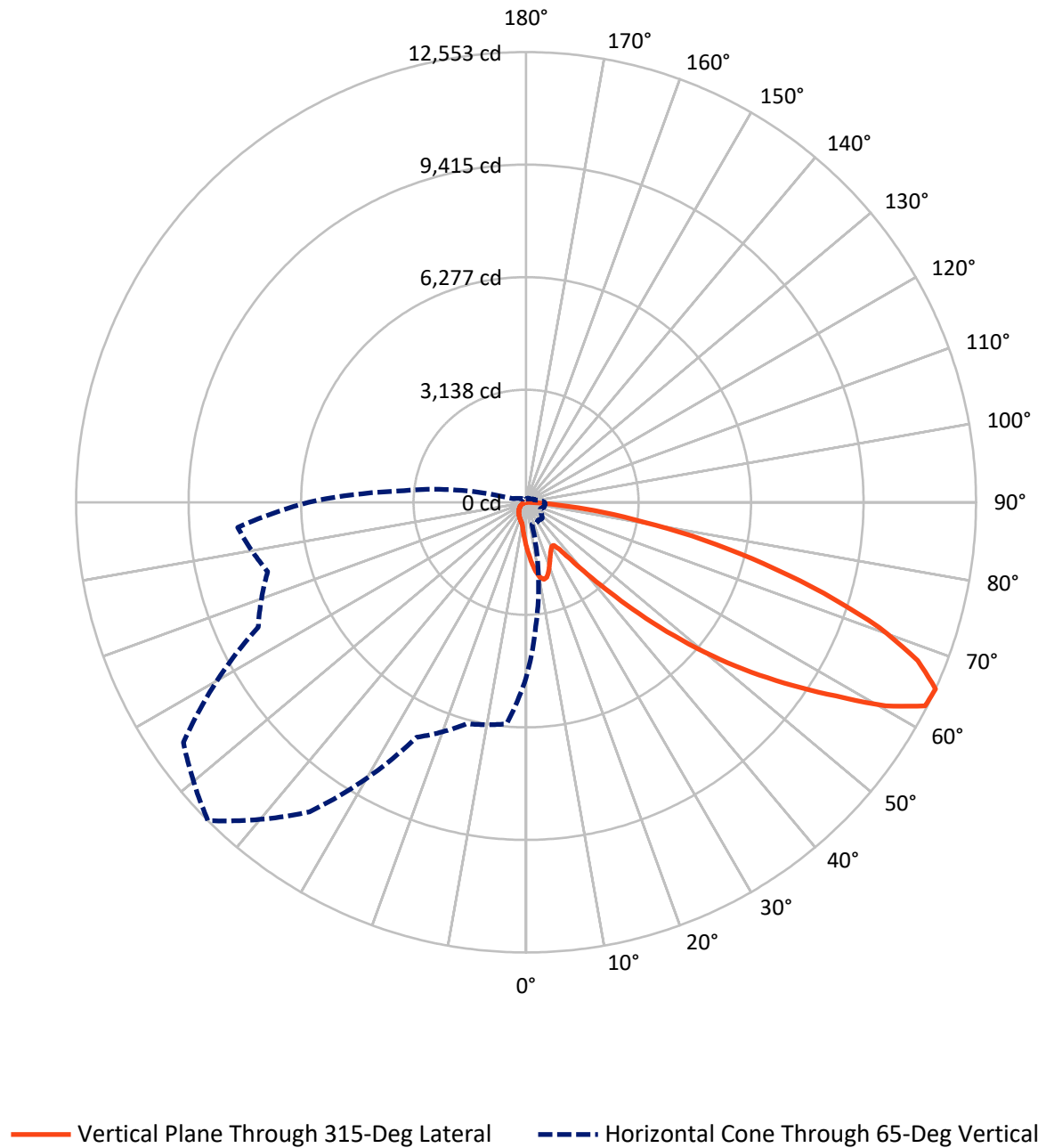
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1250.9	0.0	1250.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7681.1	0.0	7681.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8932.0	0.0	8932.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.8	1.4
10°-20°	365.0	4.1
20°-30°	537.8	6.0
30°-40°	690.9	7.7
40°-50°	1117.3	12.5
50°-60°	1959.3	21.9
60°-70°	2451.7	27.4
70°-80°	1432.6	16.0
80°-90°	255.6	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°	8932.0	100.0
0°-180°	8932.0	100.0

**Coefficient of Utilization**



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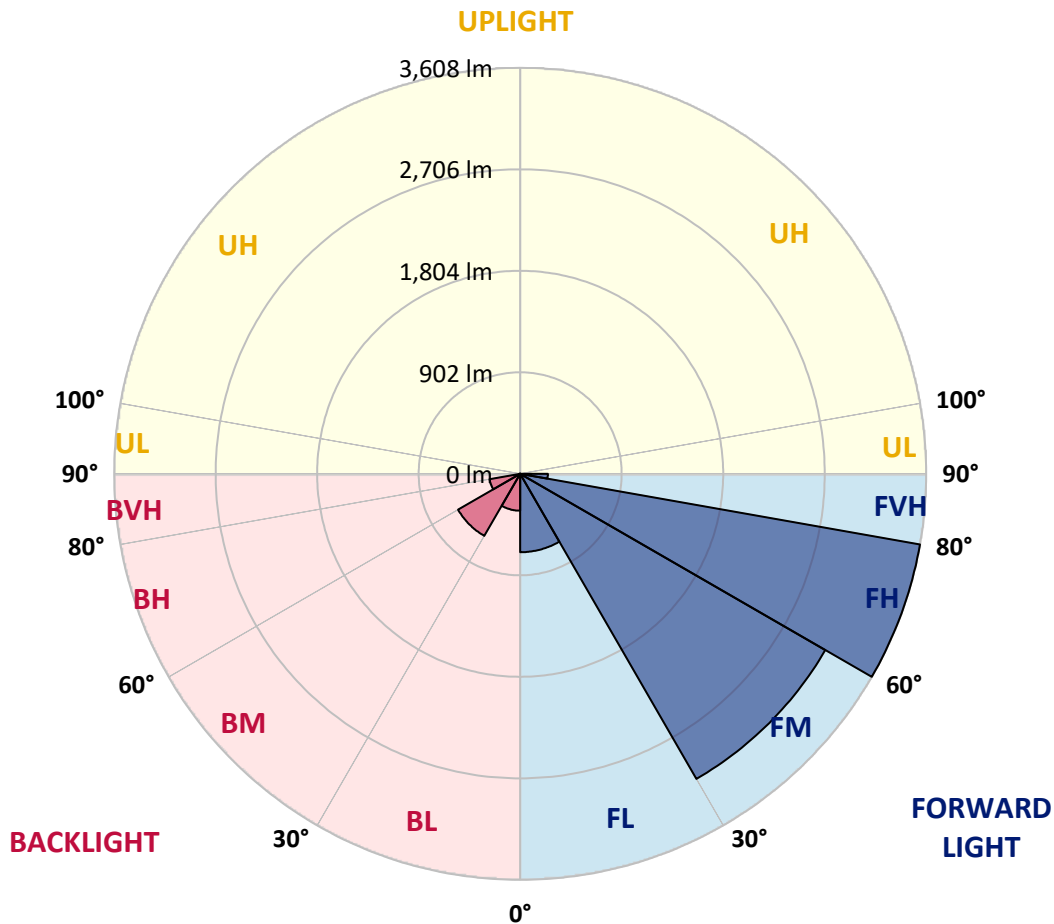
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.7	7.8			
FM (30°-60°)	3130.6	35.0			
FH (60°-80°)	3608.1	40.4			G2/5000
FVH (80°-90°)	245.8	2.8			G3/500
BL (0°-30°)	327.9	3.7	B1/500		
BM (30°-60°)	637.0	7.1	B1/1000		
BH (60°-80°)	276.2	3.1	B1/500		G1/500
BVH (80°-90°)	9.8	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
2.5°	1397.4	1373.4	1359.2	1324.2	1289.1	1260.8	1222.6	1197.4	1167.3	1138.3
5°	1557.4	1518.6	1471.8	1407.9	1349.4	1289.7	1231.9	1174.6	1114.3	1059.0
7.5°	1692.7	1636.8	1554.3	1469.4	1394.9	1322.9	1255.3	1179.6	1106.3	1019.6
10°	1796.1	1724.7	1616.4	1505.1	1419.5	1346.9	1281.1	1217.1	1143.3	1038.7
12.5°	1858.9	1782.6	1654.0	1523.5	1425.7	1344.5	1293.4	1265.1	1236.2	1132.2
15°	1905.0	1822.6	1680.4	1536.5	1411.5	1311.9	1274.3	1302.6	1335.9	1269.4
17.5°	1953.0	1866.3	1714.9	1542.0	1373.4	1248.5	1232.5	1305.7	1382.6	1379.6
20°	1998.6	1912.4	1745.1	1538.3	1311.9	1171.6	1185.7	1279.3	1368.5	1406.0
22.5°	2050.9	1959.8	1774.0	1524.2	1231.9	1099.6	1143.9	1237.4	1315.6	1359.9
25°	2114.9	2019.5	1814.6	1503.2	1145.7	1039.9	1101.4	1188.8	1252.2	1282.9
27.5°	2183.8	2090.9	1868.7	1492.2	1076.2	997.4	1053.4	1131.0	1187.6	1209.1
30°	2269.3	2173.9	1932.7	1479.8	1030.7	972.8	1003.6	1063.9	1119.3	1140.8
32.5°	2362.8	2266.2	1994.3	1450.3	1003.0	954.4	955.0	993.1	1043.6	1069.4
35°	2479.7	2377.0	2060.1	1385.7	980.8	932.8	907.6	926.1	967.9	998.7
37.5°	2646.5	2522.2	2140.7	1293.4	948.2	899.6	857.8	862.1	894.1	927.9
40°	2876.6	2717.3	2235.5	1197.4	901.4	852.8	803.0	801.1	824.5	857.8
42.5°	3188.0	2975.1	2349.3	1105.7	856.5	796.2	745.2	742.1	760.5	789.5
45°	3599.0	3304.9	2489.0	1027.0	821.5	740.8	690.4	689.2	704.5	729.8
47.5°	4125.1	3763.3	2628.7	973.4	803.0	697.2	645.5	647.9	661.5	684.2
50°	4806.3	4360.8	2671.1	946.4	803.0	673.8	605.5	617.8	628.9	646.1
52.5°	5622.8	4934.3	2530.8	921.8	807.9	676.9	571.6	598.1	606.1	620.9
55°	6379.7	5215.5	2175.8	887.9	809.1	695.9	542.7	582.1	596.9	602.4
57.5°	6819.0	5118.9	1759.2	830.7	804.2	708.9	524.3	562.4	590.7	594.4
60°	6735.3	4779.8	1295.3	787.0	767.9	703.9	518.7	532.3	577.2	582.7
62.5°	6090.5	4211.3	899.0	753.2	687.9	682.4	516.9	484.9	547.6	561.2
65°	4895.5	3315.4	635.0	648.5	603.0	635.6	507.0	435.6	511.9	530.4
67.5°	3551.6	2243.5	458.4	525.5	546.4	559.9	484.9	400.0	471.3	495.9
70°	2279.2	1211.6	321.8	347.0	460.3	475.6	446.7	368.0	430.1	458.4
72.5°	1620.1	715.6	231.4	243.1	369.8	396.3	393.2	332.3	382.1	416.6
75°	1118.0	394.4	156.3	173.5	268.3	321.8	303.4	285.5	323.7	358.7
77.5°	700.9	176.6	93.5	120.6	176.0	252.9	208.0	220.9	252.3	284.9
80°	390.1	68.3	52.3	80.0	96.0	184.0	115.1	142.1	185.8	209.2
82.5°	84.9	8.6	23.4	34.5	37.5	107.1	60.9	82.5	116.9	115.1
85°	0.0	0.0	4.3	4.9	2.5	46.1	22.2	27.1	38.1	35.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°
1236.8	0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
1112.5	2.5°	1107.6	1077.4	1055.3	1044.2	1035.0	1043.6	1048.5	1048.5	1069.4	1081.7
1025.1	5°	1003.6	949.4	908.2	880.5	863.9	869.4	875.6	882.4	908.8	926.7
973.4	7.5°	931.6	848.5	785.8	747.0	726.7	729.8	734.1	739.6	765.5	783.3
980.8	10°	918.1	798.7	710.1	659.0	634.4	630.1	627.6	625.8	641.2	654.7
1064.5	12.5°	973.4	801.1	677.5	615.3	585.2	572.2	557.5	545.8	548.3	556.9
1191.3	15°	1072.5	832.5	667.0	592.6	555.0	533.5	516.3	502.1	499.0	502.1
1302.0	17.5°	1185.7	875.0	665.8	572.9	526.1	503.9	489.8	476.9	472.6	473.2
1364.2	20°	1260.8	908.8	662.1	550.7	498.4	478.7	466.4	453.5	449.2	450.4
1346.9	22.5°	1268.2	926.7	656.5	526.1	470.7	454.1	441.8	430.1	429.5	429.5
1282.3	25°	1228.2	926.7	644.9	503.9	444.3	429.5	418.4	404.3	406.7	408.0
1209.1	27.5°	1166.0	904.5	622.7	486.1	421.5	406.1	395.0	382.1	385.2	387.0
1140.8	30°	1104.5	876.2	596.2	465.8	400.0	382.1	374.1	363.0	364.3	366.7
1073.1	32.5°	1047.3	846.1	564.9	449.2	378.4	360.6	354.4	342.1	344.0	346.4
1006.7	35°	990.7	812.8	527.9	429.5	358.7	340.9	336.0	321.8	323.0	326.7
940.2	37.5°	929.8	777.8	497.8	409.8	339.7	321.2	316.3	301.5	302.7	307.0
871.3	40°	865.8	743.3	468.3	388.9	319.4	300.9	296.6	280.6	281.8	286.7
803.6	42.5°	801.1	705.8	445.5	361.8	298.4	278.7	274.4	259.7	261.5	267.0
744.5	45°	741.5	660.9	430.7	331.7	278.7	256.6	252.3	238.7	242.4	248.6
694.7	47.5°	690.4	614.7	424.6	306.4	257.8	233.8	230.1	219.1	225.2	232.0
652.2	50°	646.7	570.4	416.6	280.6	238.1	214.1	210.4	203.1	211.1	217.8
623.3	52.5°	615.3	519.9	399.3	257.2	220.9	197.5	196.3	192.6	200.0	206.1
601.8	55°	588.2	467.6	371.7	236.9	205.5	183.4	184.6	182.8	188.9	193.8
588.9	57.5°	563.6	422.1	336.6	220.9	188.9	171.1	174.8	172.3	175.4	178.4
575.3	60°	534.1	376.0	294.7	203.1	169.2	158.8	163.1	156.3	155.7	156.9
550.7	62.5°	490.4	313.8	251.1	180.9	152.0	145.2	147.1	134.1	124.3	124.3
514.4	65°	429.5	252.3	210.4	156.3	132.3	126.8	125.5	107.1	93.5	92.3
475.0	67.5°	358.7	207.4	174.8	131.7	110.1	106.5	107.7	94.1	80.6	79.4
435.6	70°	292.3	171.7	140.9	105.2	84.9	88.6	94.1	80.6	67.7	65.8
389.5	72.5°	237.5	136.6	110.1	80.6	62.8	73.2	80.0	65.8	53.5	52.3
332.3	75°	183.4	100.3	78.8	54.8	45.5	56.6	62.8	48.0	38.1	36.3
257.2	77.5°	122.4	62.1	44.3	34.5	27.1	38.8	41.8	25.2	22.2	21.5
187.1	80°	74.5	28.9	19.1	16.6	9.2	14.2	16.6	10.5	11.7	12.3
99.7	82.5°	37.5	8.0	3.1	0.6	0.0	0.0	4.9	2.5	4.9	6.2
27.1	85°	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.1
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°
1236.8	0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
1086.7	2.5°	1121.1	1147.0	1171.6	1211.0	1251.6	1291.6	1332.2	1371.6	1385.7	1396.2
938.4	5°	991.9	1040.5	1097.1	1175.3	1258.9	1345.1	1432.5	1512.5	1548.8	1573.4
798.7	7.5°	858.4	921.8	1003.0	1120.5	1251.6	1388.8	1526.0	1652.1	1710.6	1758.0
667.0	10°	726.1	795.0	897.8	1031.9	1209.1	1406.0	1595.5	1769.0	1844.7	1904.4
572.2	12.5°	609.8	674.4	782.1	930.4	1142.7	1392.5	1635.5	1844.1	1933.3	2000.4
504.6	15°	527.9	573.5	668.9	828.8	1063.9	1348.8	1638.0	1879.8	1977.6	2047.8
476.3	17.5°	482.4	497.8	559.9	725.5	976.5	1291.6	1615.2	1892.1	1996.7	2061.9
451.0	20°	457.8	460.3	477.5	591.3	864.5	1238.0	1593.7	1904.4	2014.6	2069.3
433.2	22.5°	438.1	438.1	442.4	483.6	719.9	1174.0	1586.9	1926.0	2039.2	2073.0
412.9	25°	420.3	420.3	421.5	432.6	570.4	1076.2	1582.6	1959.2	2073.0	2082.2
392.6	27.5°	401.8	402.4	402.4	408.6	459.6	943.3	1564.1	2002.3	2113.6	2094.6
372.9	30°	383.3	384.6	384.6	388.9	406.7	787.6	1527.8	2053.9	2166.5	2110.6
353.2	32.5°	364.9	366.1	366.1	369.8	382.7	628.9	1482.3	2101.3	2220.1	2117.3
334.1	35°	345.8	347.7	346.4	351.3	364.9	500.3	1424.5	2148.7	2277.9	2138.9
315.7	37.5°	326.7	328.0	327.4	332.3	347.7	432.0	1357.4	2184.4	2356.7	2186.9
296.0	40°	307.7	307.0	307.0	312.6	329.2	412.3	1273.1	2241.0	2469.9	2271.2
276.3	42.5°	288.0	288.0	286.7	292.9	313.2	397.5	1192.5	2342.5	2634.8	2405.3
257.8	45°	270.1	269.5	267.0	272.6	297.8	371.7	1164.2	2532.0	2878.5	2622.5
239.4	47.5°	252.9	252.3	246.1	251.1	279.4	348.3	1270.0	2842.2	3216.3	2941.9
224.6	50°	237.5	238.1	226.4	230.7	260.9	330.4	1499.5	3244.6	3664.9	3372.0
212.3	52.5°	223.4	223.4	208.0	210.4	238.1	314.4	1718.0	3680.9	4256.8	3971.9
199.4	55°	209.2	208.0	190.7	192.0	215.4	291.7	1750.6	4106.7	5064.1	4874.6
185.2	57.5°	193.2	190.7	174.8	174.8	194.4	275.0	1517.4	4434.0	6065.8	6201.2
158.8	60°	173.5	171.7	161.2	158.1	177.8	289.8	1070.7	4472.2	6711.9	7965.3
126.1	62.5°	148.3	150.8	145.2	140.9	161.8	300.9	634.4	4165.1	6555.6	8526.5
97.8	65°	116.9	126.8	125.5	122.4	177.8	253.5	374.7	3575.6	6076.3	8073.6
85.5	67.5°	99.7	106.5	104.6	104.6	186.4	192.6	235.7	2793.6	5416.7	7536.5
71.4	70°	84.9	91.7	84.9	84.9	140.9	116.9	163.1	1950.6	4704.7	6942.1
57.2	72.5°	70.1	76.9	69.5	64.6	112.6	87.4	119.4	1219.0	4029.1	6323.0
40.6	75°	53.5	61.5	56.0	49.8	74.5	65.2	90.5	708.2	3338.1	5409.9
24.6	77.5°	33.8	44.3	41.8	35.1	54.8	47.4	65.2	421.5	2575.7	4227.3
14.8	80°	20.9	22.8	23.4	22.2	31.4	32.0	44.3	240.0	1762.9	2946.2
9.2	82.5°	13.5	13.5	10.5	11.7	15.4	18.5	25.2	90.5	1036.2	1793.7
5.5	85°	9.8	8.6	5.5	5.5	7.4	9.2	9.8	27.7	420.3	708.2
2.5	87.5°	4.9	4.3	1.8	2.5	3.7	3.1	2.5	1.2	105.8	226.4
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°
1236.8	0°	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8	1236.8
1419.5	2.5°	1431.9	1450.9	1452.2	1452.2	1435.5	1434.9	1401.1	1397.4
1628.8	5°	1686.0	1698.3	1701.4	1695.2	1662.0	1637.4	1571.5	1557.4
1842.3	7.5°	1918.6	1943.2	1943.2	1928.4	1874.3	1823.8	1728.4	1692.7
2018.9	10°	2104.4	2132.7	2126.6	2096.4	2028.1	1958.6	1842.9	1796.1
2125.9	12.5°	2194.9	2223.8	2207.8	2173.3	2106.9	2033.6	1911.8	1858.9
2156.7	15°	2193.0	2185.0	2168.4	2164.1	2132.1	2076.7	1962.9	1905.0
2137.6	17.5°	2114.9	2047.2	2034.3	2077.3	2117.9	2104.4	2007.2	1953.0
2092.1	20°	1991.2	1873.0	1861.3	1943.8	2059.5	2118.6	2048.4	1998.6
2026.3	22.5°	1860.7	1733.4	1706.3	1797.4	1971.5	2122.9	2100.7	2050.9
1953.6	25°	1737.1	1609.1	1582.0	1666.9	1873.7	2115.5	2157.3	2114.9
1884.1	27.5°	1633.7	1510.0	1484.8	1569.7	1779.5	2094.6	2213.9	2183.8
1815.2	30°	1553.7	1439.2	1420.8	1502.6	1698.3	2068.7	2285.9	2269.3
1751.2	32.5°	1506.9	1423.2	1430.0	1497.1	1654.6	2040.4	2354.8	2362.8
1719.8	35°	1553.1	1556.8	1615.8	1643.5	1695.2	2036.1	2448.4	2479.7
1757.4	37.5°	1782.6	1910.6	2033.0	2010.3	1894.0	2085.9	2588.0	2646.5
1921.0	40°	2173.3	2436.1	2634.8	2548.0	2255.2	2238.5	2789.3	2876.6
2211.5	42.5°	2650.8	3096.3	3423.6	3191.1	2721.0	2505.6	3076.6	3188.0
2562.8	45°	3154.8	3910.4	4426.0	3942.4	3217.5	2879.7	3511.6	3599.0
2892.0	47.5°	3685.8	4899.8	5566.8	4775.5	3677.8	3305.5	4104.8	4125.1
3204.0	50°	4266.6	5984.6	6729.8	5608.0	4122.0	3793.5	4829.7	4806.3
3567.6	52.5°	4819.8	7100.2	7868.1	6444.3	4512.2	4398.9	5670.8	5622.8
4064.8	55°	5347.8	8215.2	9013.2	7247.9	4880.1	5198.9	6670.1	6379.7
4781.7	57.5°	5960.0	9217.5	10193.4	8055.2	5394.5	6237.5	7787.5	6819.0
6154.4	60°	6865.1	10356.5	11528.0	9161.5	6372.9	7329.1	8188.1	6735.3
7798.6	62.5°	8020.7	11403.8	12498.4	10245.7	7355.6	7534.6	7598.0	6090.5
7463.2	65°	8245.3	11669.0	12553.2	10535.5	7228.8	6391.3	6203.1	4895.5
6666.4	67.5°	7649.7	11189.6	11787.7	9995.9	6394.4	4939.2	4654.9	3551.6
6143.4	70°	6981.4	10275.9	10453.7	9078.5	5624.0	3632.9	3143.7	2279.2
5785.3	72.5°	6296.6	9056.9	8689.0	7884.1	4942.9	2645.3	2267.5	1620.1
5275.2	75°	5483.1	7454.0	6844.2	6550.7	4092.5	2076.1	1640.4	1118.0
4537.4	77.5°	4390.9	5246.8	5083.8	5077.6	3075.4	1516.8	1094.7	700.9
3544.9	80°	3097.5	3405.2	3322.1	3824.2	2063.2	1100.2	659.0	390.1
2467.4	82.5°	1499.5	1882.9	1932.7	2277.3	1003.6	647.3	152.0	84.9
964.8	85°	587.0	908.2	766.1	864.5	281.8	180.3	3.7	0.0
158.8	87.5°	65.8	105.2	96.6	76.3	34.5	7.4	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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