

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: P946687

Luminaire Tested: **GALN-SB2B-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946687  
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-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

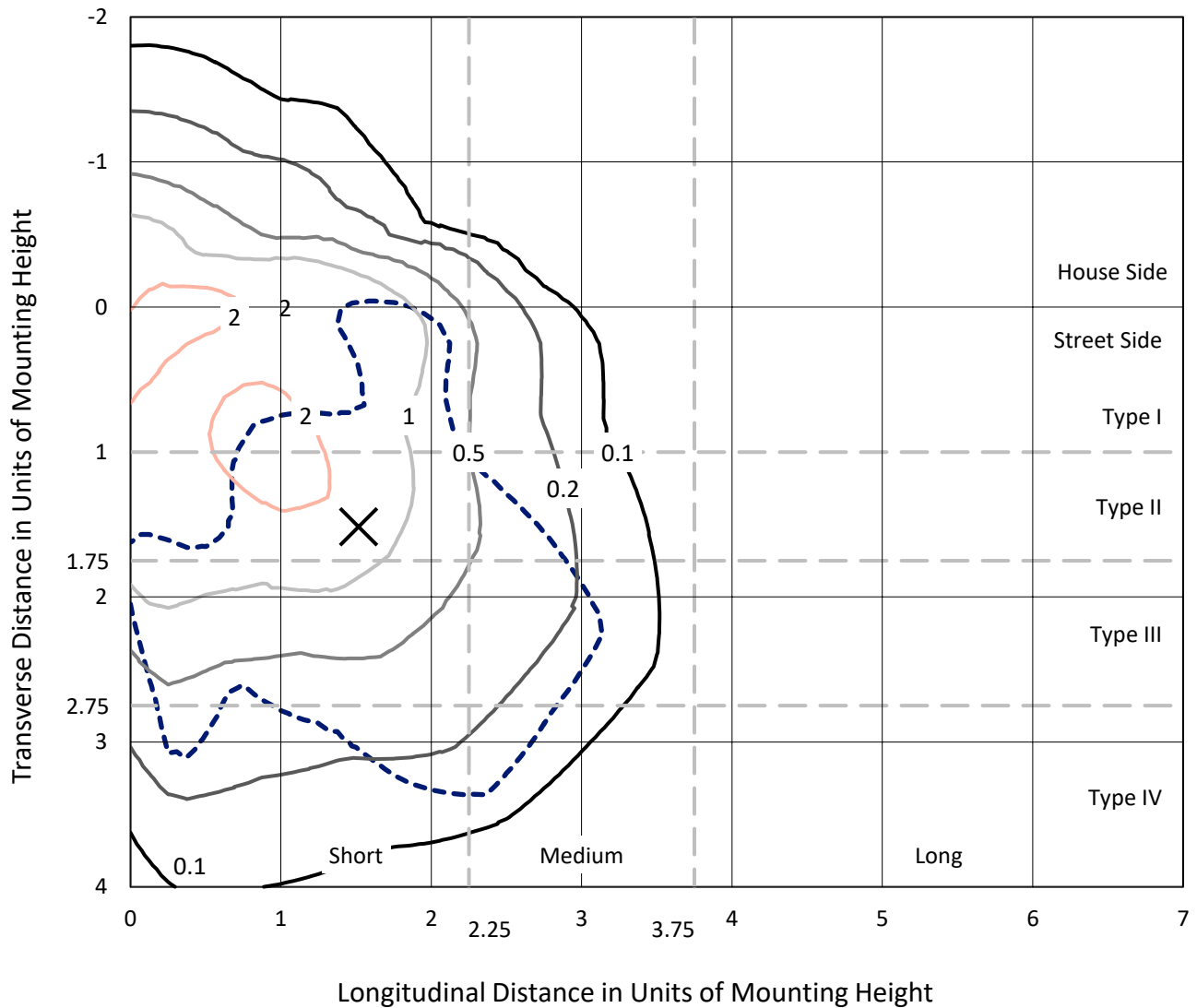
Lumens per Lamp: N/A  
Luminaire Lumens: 8594 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

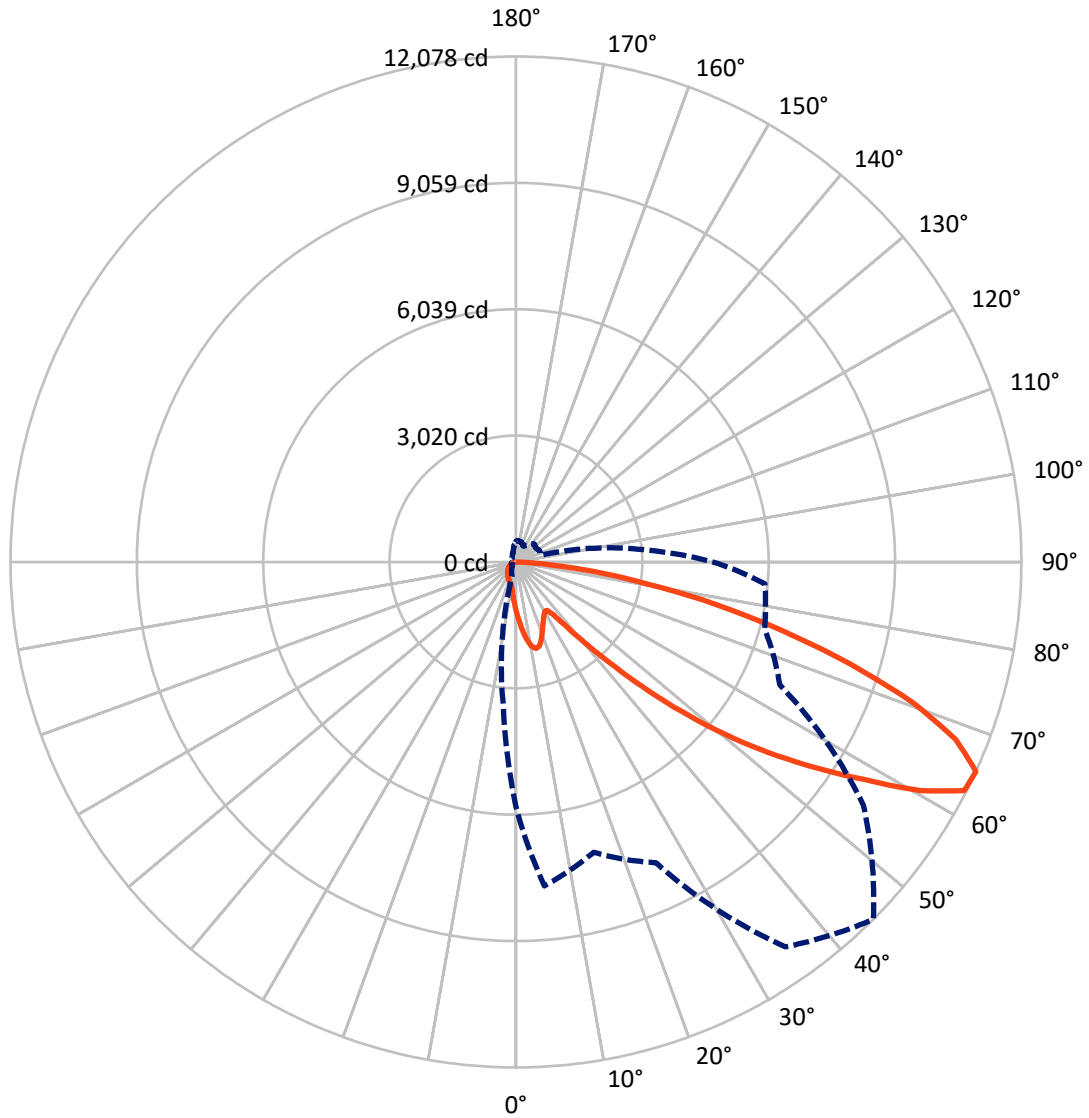
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1708.2	0.0	1708.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	6885.8	0.0	6885.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	8594.0	0.0	8594.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.4
10°-20°	351.2	4.1
20°-30°	517.4	6.0
30°-40°	664.7	7.7
40°-50°	1075.0	12.5
50°-60°	1885.2	21.9
60°-70°	2358.9	27.4
70°-80°	1378.4	16.0
80°-90°	245.9	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°	8594.0	100.0
0°-180°	8594.0	100.0



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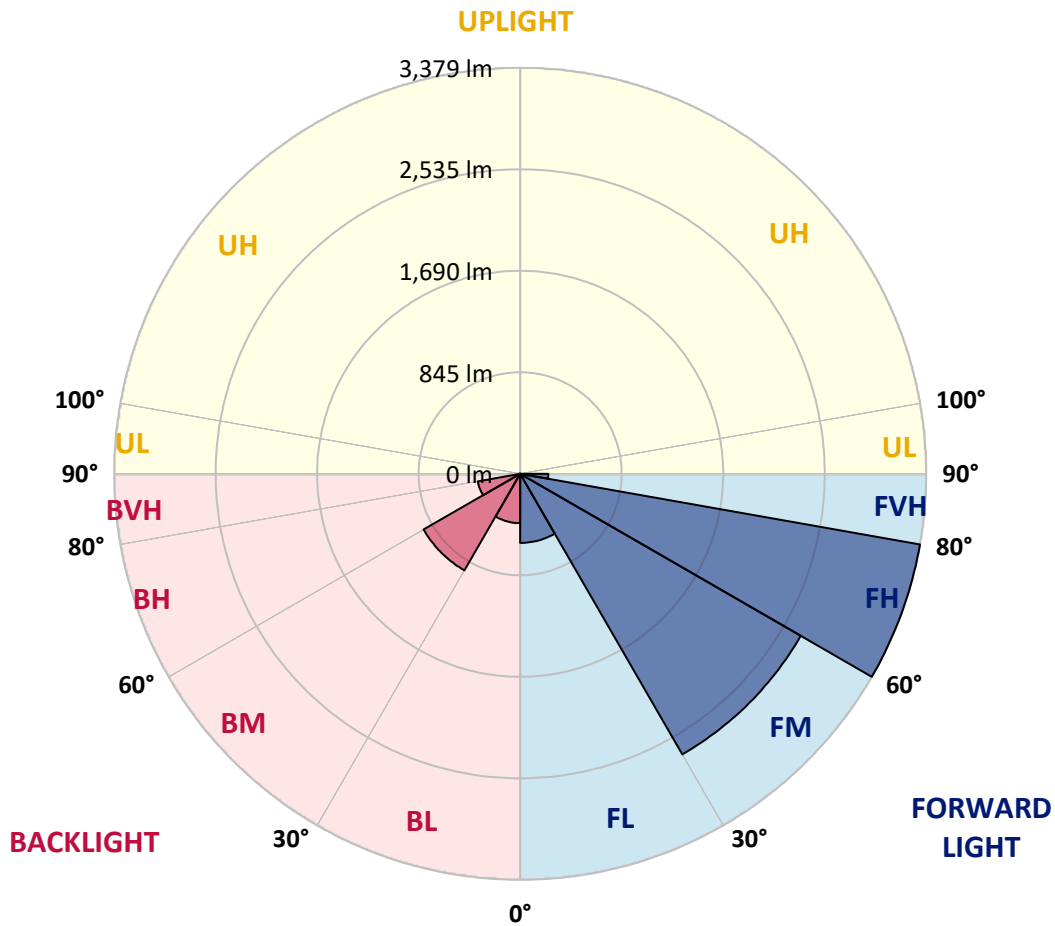
CATALOG NUMBER: GALN-SB2B-735-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.0	6.7			
FM (30°-60°)	2696.9	31.4			
FH (60°-80°)	3379.4	39.3			G2/5000
FVH (80°-90°)	234.4	2.7			G3/500
BL (0°-30°)	410.7	4.8	B1/500		
BM (30°-60°)	928.1	10.8	B1/1000		
BH (60°-80°)	357.9	4.2	B1/500		G1/500
BVH (80°-90°)	11.5	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°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1333.3	1343.3	1365.8	1377.7	1396.0	1397.2	1397.2	1381.2	1380.6	1348.1
5°	1490.2	1513.8	1567.1	1622.2	1634.0	1637.0	1631.1	1599.1	1575.4	1512.1
7.5°	1645.9	1691.4	1772.6	1846.0	1869.7	1869.7	1855.4	1803.3	1754.8	1663.0
10°	1774.9	1832.4	1942.5	2024.8	2052.0	2046.1	2017.1	1951.4	1884.5	1773.2
12.5°	1860.2	1924.7	2045.5	2111.8	2139.6	2124.2	2091.1	2027.1	1956.7	1839.5
15°	1902.8	1970.3	2075.1	2110.0	2102.3	2086.3	2082.2	2051.4	1998.1	1888.6
17.5°	1921.2	1983.9	2056.7	2034.8	1969.7	1957.3	1998.7	2037.8	2024.8	1931.2
20°	1938.3	1991.0	2012.9	1915.8	1802.2	1790.9	1870.2	1981.5	2038.4	1970.9
22.5°	1962.0	1994.6	1949.6	1790.3	1667.8	1641.7	1729.3	1896.9	2042.5	2021.2
25°	1994.6	2003.5	1879.7	1671.3	1548.2	1522.1	1603.8	1802.8	2035.4	2075.7
27.5°	2033.6	2015.3	1812.8	1571.9	1452.9	1428.6	1510.3	1712.2	2015.3	2130.1
30°	2084.6	2030.7	1746.5	1494.9	1384.8	1367.0	1445.8	1634.0	1990.4	2199.4
32.5°	2136.1	2037.2	1684.9	1449.9	1369.4	1375.9	1440.4	1592.0	1963.2	2265.7
35°	2191.7	2057.9	1654.7	1494.3	1497.9	1554.7	1581.3	1631.1	1959.0	2355.7
37.5°	2267.5	2104.1	1690.9	1715.1	1838.3	1956.1	1934.2	1822.3	2007.0	2490.1
40°	2376.4	2185.2	1848.3	2091.1	2343.9	2535.1	2451.6	2169.8	2153.8	2683.7
42.5°	2535.1	2314.3	2127.8	2550.5	2979.1	3294.1	3070.3	2618.0	2410.8	2960.2
45°	2769.5	2523.3	2465.8	3035.4	3762.4	4258.5	3793.2	3095.8	2770.7	3378.8
47.5°	3094.6	2830.5	2782.6	3546.3	4714.4	5356.2	4594.8	3538.6	3180.4	3949.5
50°	3526.2	3244.4	3082.7	4105.2	5758.2	6475.1	5395.8	3966.1	3649.9	4646.9
52.5°	4095.7	3821.6	3432.6	4637.4	6831.5	7570.4	6200.4	4341.4	4232.5	5456.2
55°	4872.5	4690.1	3911.0	5145.4	7904.3	8672.2	6973.6	4695.4	5002.1	6417.7
57.5°	5836.3	5966.5	4600.7	5734.5	8868.7	9807.7	7750.4	5190.4	6001.5	7492.8
60°	6457.9	7663.9	5921.6	6605.4	9964.6	11091.8	8814.8	6131.7	7051.8	7878.2
62.5°	6307.6	8203.9	7503.5	7717.2	10972.2	12025.5	9858.0	7077.2	7249.5	7310.5
65°	5846.4	7768.1	7180.8	7933.3	11227.4	12078.1	10136.9	6955.2	6149.5	5968.3
67.5°	5211.7	7251.3	6414.1	7360.2	10766.2	11341.6	9617.6	6152.4	4752.3	4478.8
70°	4526.7	6679.4	5910.9	6717.2	9887.0	10058.1	8734.9	5411.2	3495.4	3024.7
72.5°	3876.7	6083.8	5566.3	6058.3	8714.2	8360.2	7585.8	4755.8	2545.2	2181.7
75°	3211.8	5205.2	5075.5	5275.6	7171.9	6585.2	6302.8	3937.6	1997.5	1578.4
77.5°	2478.3	4067.3	4365.7	4224.8	5048.3	4891.4	4885.5	2959.0	1459.4	1053.2
80°	1696.2	2834.7	3410.7	2980.3	3276.3	3196.4	3679.5	1985.1	1058.6	634.1
82.5°	997.0	1725.8	2374.1	1442.8	1811.6	1859.6	2191.1	965.6	622.8	146.2
85°	404.4	681.4	928.3	564.8	873.8	737.1	831.8	271.2	173.5	3.6
87.5°	101.8	217.9	152.7	63.3	101.2	92.9	73.4	33.2	7.1	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1344.5	2.5°	1321.4	1307.8	1274.1	1240.3	1213.1	1176.4	1152.1	1123.1	1095.3	1070.4
1498.4	5°	1461.1	1416.2	1354.6	1298.3	1240.9	1185.3	1130.2	1072.2	1018.9	986.3
1628.7	7.5°	1574.8	1495.5	1413.8	1342.1	1272.9	1207.8	1134.9	1064.5	981.0	936.6
1728.2	10°	1659.5	1555.3	1448.1	1365.8	1296.0	1232.6	1171.0	1100.0	999.4	943.7
1788.5	12.5°	1715.1	1591.4	1465.9	1371.7	1293.6	1244.5	1217.2	1189.4	1089.3	1024.2
1832.9	15°	1753.6	1616.9	1478.3	1358.1	1262.2	1226.1	1253.3	1285.3	1221.4	1146.2
1879.1	17.5°	1795.6	1650.0	1483.6	1321.4	1201.2	1185.8	1256.3	1330.3	1327.3	1252.7
1922.9	20°	1840.1	1679.0	1480.1	1262.2	1127.2	1140.9	1230.8	1316.7	1352.8	1312.5
1973.3	22.5°	1885.6	1706.8	1466.5	1185.3	1058.0	1100.6	1190.6	1265.8	1308.4	1296.0
2034.8	25°	1943.1	1745.9	1446.3	1102.4	1000.5	1059.7	1143.8	1204.8	1234.4	1233.8
2101.1	27.5°	2011.7	1798.0	1435.7	1035.5	959.7	1013.6	1088.2	1142.6	1163.4	1163.4
2183.4	30°	2091.7	1859.6	1423.8	991.7	936.0	965.6	1023.6	1076.9	1097.6	1097.6
2273.4	32.5°	2180.5	1918.8	1395.4	965.0	918.2	918.8	955.5	1004.1	1029.0	1032.5
2385.9	35°	2287.0	1982.1	1333.3	943.7	897.5	873.3	891.0	931.3	960.9	968.6
2546.4	37.5°	2426.8	2059.7	1244.5	912.3	865.6	825.3	829.4	860.2	892.8	904.6
2767.8	40°	2614.4	2150.9	1152.1	867.3	820.6	772.6	770.8	793.3	825.3	838.3
3067.3	42.5°	2862.5	2260.4	1063.9	824.1	766.1	717.0	714.0	731.8	759.6	773.2
3462.8	45°	3179.8	2394.8	988.1	790.4	712.8	664.3	663.1	677.9	702.2	716.4
3969.0	47.5°	3620.9	2529.2	936.6	772.6	670.8	621.0	623.4	636.4	658.3	668.4
4624.4	50°	4195.8	2570.0	910.6	772.6	648.3	582.6	594.4	605.1	621.6	627.6
5410.0	52.5°	4747.5	2435.0	886.9	777.3	651.2	550.0	575.5	583.2	597.4	599.7
6138.2	55°	5018.1	2093.4	854.3	778.5	669.6	522.2	560.1	574.3	579.6	579.0
6561.0	57.5°	4925.2	1692.6	799.2	773.8	682.0	504.4	541.1	568.4	571.9	566.6
6480.4	60°	4598.9	1246.2	757.2	738.9	677.3	499.1	512.1	555.3	560.7	553.6
5860.0	62.5°	4051.9	865.0	724.7	661.9	656.6	497.3	466.5	526.9	539.9	529.9
4710.2	65°	3189.9	611.0	624.0	580.2	611.6	487.8	419.2	492.6	510.3	494.9
3417.2	67.5°	2158.6	441.1	505.6	525.7	538.8	466.5	384.8	453.5	477.2	457.1
2192.9	70°	1165.7	309.6	333.9	442.8	457.6	429.8	354.0	413.8	441.1	419.2
1558.8	72.5°	688.5	222.6	233.9	355.8	381.3	378.3	319.7	367.7	400.8	374.8
1075.7	75°	379.5	150.4	167.0	258.1	309.6	291.9	274.7	311.4	345.2	319.7
674.3	77.5°	169.9	90.0	116.0	169.3	243.3	200.1	212.5	242.7	274.1	247.5
375.4	80°	65.7	50.3	77.0	92.4	177.0	110.7	136.8	178.8	201.3	180.0
81.7	82.5°	8.3	22.5	33.2	36.1	103.0	58.6	79.3	112.5	110.7	95.9
0.0	85°	0.0	4.1	4.7	2.4	44.4	21.3	26.0	36.7	34.3	26.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1065.7	2.5°	1036.7	1015.3	1004.7	995.8	1004.1	1008.8	1008.8	1029.0	1040.8	1045.5
965.6	5°	913.5	873.8	847.2	831.2	836.5	842.5	849.0	874.4	891.6	902.9
896.3	7.5°	816.4	756.0	718.7	699.2	702.2	706.3	711.6	736.5	753.7	768.5
883.3	10°	768.5	683.2	634.1	610.4	606.2	603.9	602.1	616.9	629.9	641.8
936.6	12.5°	770.8	651.8	592.0	563.0	550.6	536.4	525.1	527.5	535.8	550.6
1031.9	15°	801.0	641.8	570.1	534.0	513.3	496.7	483.1	480.1	483.1	485.5
1140.9	17.5°	841.9	640.6	551.2	506.2	484.9	471.3	458.8	454.7	455.3	458.2
1213.1	20°	874.4	637.0	529.9	479.5	460.6	448.8	436.3	432.2	433.4	434.0
1220.2	22.5°	891.6	631.7	506.2	452.9	436.9	425.1	413.8	413.2	413.2	416.8
1181.7	25°	891.6	620.5	484.9	427.5	413.2	402.6	389.0	391.3	392.5	397.3
1121.9	27.5°	870.3	599.1	467.7	405.5	390.7	380.1	367.7	370.6	372.4	377.7
1062.7	30°	843.1	573.7	448.2	384.8	367.7	360.0	349.3	350.5	352.9	358.8
1007.6	32.5°	814.1	543.5	432.2	364.1	346.9	341.0	329.2	330.9	333.3	339.8
953.2	35°	782.1	508.0	413.2	345.2	328.0	323.3	309.6	310.8	314.4	321.5
894.6	37.5°	748.3	479.0	394.3	326.8	309.0	304.3	290.1	291.3	295.4	303.7
833.0	40°	715.2	450.5	374.2	307.3	289.5	285.4	270.0	271.2	275.9	284.8
770.8	42.5°	679.1	428.6	348.1	287.1	268.2	264.0	249.8	251.6	256.9	265.8
713.4	45°	635.8	414.4	319.1	268.2	246.9	242.7	229.7	233.3	239.2	248.1
664.3	47.5°	591.4	408.5	294.8	248.1	225.0	221.4	210.8	216.7	223.2	230.3
622.2	50°	548.8	400.8	270.0	229.1	206.0	202.5	195.4	203.1	209.6	216.1
592.0	52.5°	500.3	384.2	247.5	212.5	190.0	188.9	185.3	192.4	198.3	204.3
566.0	55°	449.9	357.6	227.9	197.7	176.4	177.6	175.8	181.8	186.5	191.8
542.3	57.5°	406.1	323.8	212.5	181.8	164.6	168.1	165.8	168.7	171.7	178.2
513.9	60°	361.7	283.6	195.4	162.8	152.7	156.9	150.4	149.8	151.0	152.7
471.9	62.5°	301.9	241.6	174.1	146.2	139.7	141.5	129.1	119.6	119.6	121.4
413.2	65°	242.7	202.5	150.4	127.3	122.0	120.8	103.0	90.0	88.8	94.1
345.2	67.5°	199.5	168.1	126.7	106.0	102.4	103.6	90.6	77.6	76.4	82.3
281.2	70°	165.2	135.6	101.2	81.7	85.3	90.6	77.6	65.1	63.3	68.7
228.5	72.5°	131.4	106.0	77.6	60.4	70.5	77.0	63.3	51.5	50.3	55.1
176.4	75°	96.5	75.8	52.7	43.8	54.5	60.4	46.2	36.7	34.9	39.1
117.8	77.5°	59.8	42.6	33.2	26.0	37.3	40.3	24.3	21.3	20.7	23.7
71.6	80°	27.8	18.4	16.0	8.9	13.6	16.0	10.1	11.2	11.8	14.2
36.1	82.5°	7.7	3.0	0.6	0.0	0.0	4.7	2.4	4.7	5.9	8.9
3.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0	5.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1078.7	2.5°	1103.6	1127.2	1165.1	1204.2	1242.7	1281.8	1319.7	1333.3
954.4	5°	1001.1	1055.6	1130.8	1211.3	1294.2	1378.3	1455.2	1490.2
825.9	7.5°	886.9	965.0	1078.1	1204.2	1336.2	1468.3	1589.6	1645.9
698.6	10°	764.9	863.8	992.8	1163.4	1352.8	1535.2	1702.1	1774.9
586.7	12.5°	648.9	752.5	895.2	1099.4	1339.8	1573.6	1774.3	1860.2
508.0	15°	551.8	643.5	797.5	1023.6	1297.7	1576.0	1808.7	1902.8
464.2	17.5°	479.0	538.8	698.0	939.6	1242.7	1554.1	1820.5	1921.2
440.5	20°	442.8	459.4	568.9	831.8	1191.2	1533.4	1832.4	1938.3
421.5	22.5°	421.5	425.7	465.3	692.7	1129.6	1526.9	1853.1	1962.0
404.4	25°	404.4	405.5	416.2	548.8	1035.5	1522.7	1885.0	1994.6
386.6	27.5°	387.2	387.2	393.1	442.3	907.6	1505.0	1926.5	2033.6
368.8	30°	370.0	370.0	374.2	391.3	757.8	1470.0	1976.2	2084.6
351.1	32.5°	352.3	352.3	355.8	368.2	605.1	1426.2	2021.8	2136.1
332.7	35°	334.5	333.3	338.1	351.1	481.3	1370.6	2067.4	2191.7
314.4	37.5°	315.6	315.0	319.7	334.5	415.6	1306.0	2101.7	2267.5
296.0	40°	295.4	295.4	300.8	316.7	396.7	1224.9	2156.2	2376.4
277.1	42.5°	277.1	275.9	281.8	301.3	382.5	1147.4	2253.9	2535.1
259.9	45°	259.3	256.9	262.3	286.5	357.6	1120.1	2436.2	2769.5
243.3	47.5°	242.7	236.8	241.6	268.8	335.1	1222.0	2734.6	3094.6
228.5	50°	229.1	217.9	222.0	251.0	317.9	1442.8	3121.8	3526.2
214.9	52.5°	214.9	200.1	202.5	229.1	302.5	1653.0	3541.6	4095.7
201.3	55°	200.1	183.5	184.7	207.2	280.6	1684.3	3951.3	4872.5
185.9	57.5°	183.5	168.1	168.1	187.1	264.6	1460.0	4266.2	5836.3
167.0	60°	165.2	155.1	152.2	171.1	278.8	1030.1	4302.9	6457.9
142.7	62.5°	145.0	139.7	135.6	155.7	289.5	610.4	4007.5	6307.6
112.5	65°	122.0	120.8	117.8	171.1	243.9	360.6	3440.3	5846.4
95.9	67.5°	102.4	100.6	100.6	179.4	185.3	226.8	2687.8	5211.7
81.7	70°	88.2	81.7	81.7	135.6	112.5	156.9	1876.8	4526.7
67.5	72.5°	74.0	66.9	62.2	108.3	84.1	114.9	1172.8	3876.7
51.5	75°	59.2	53.9	48.0	71.6	62.8	87.0	681.4	3211.8
32.6	77.5°	42.6	40.3	33.7	52.7	45.6	62.8	405.5	2478.3
20.1	80°	21.9	22.5	21.3	30.2	30.8	42.6	230.9	1696.2
13.0	82.5°	13.0	10.1	11.2	14.8	17.8	24.3	87.0	997.0
9.5	85°	8.3	5.3	5.3	7.1	8.9	9.5	26.6	404.4
4.7	87.5°	4.1	1.8	2.4	3.6	3.0	2.4	1.2	101.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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