

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: P946792

Luminaire Tested: **GALN-SB2B-830-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946792  
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-830-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

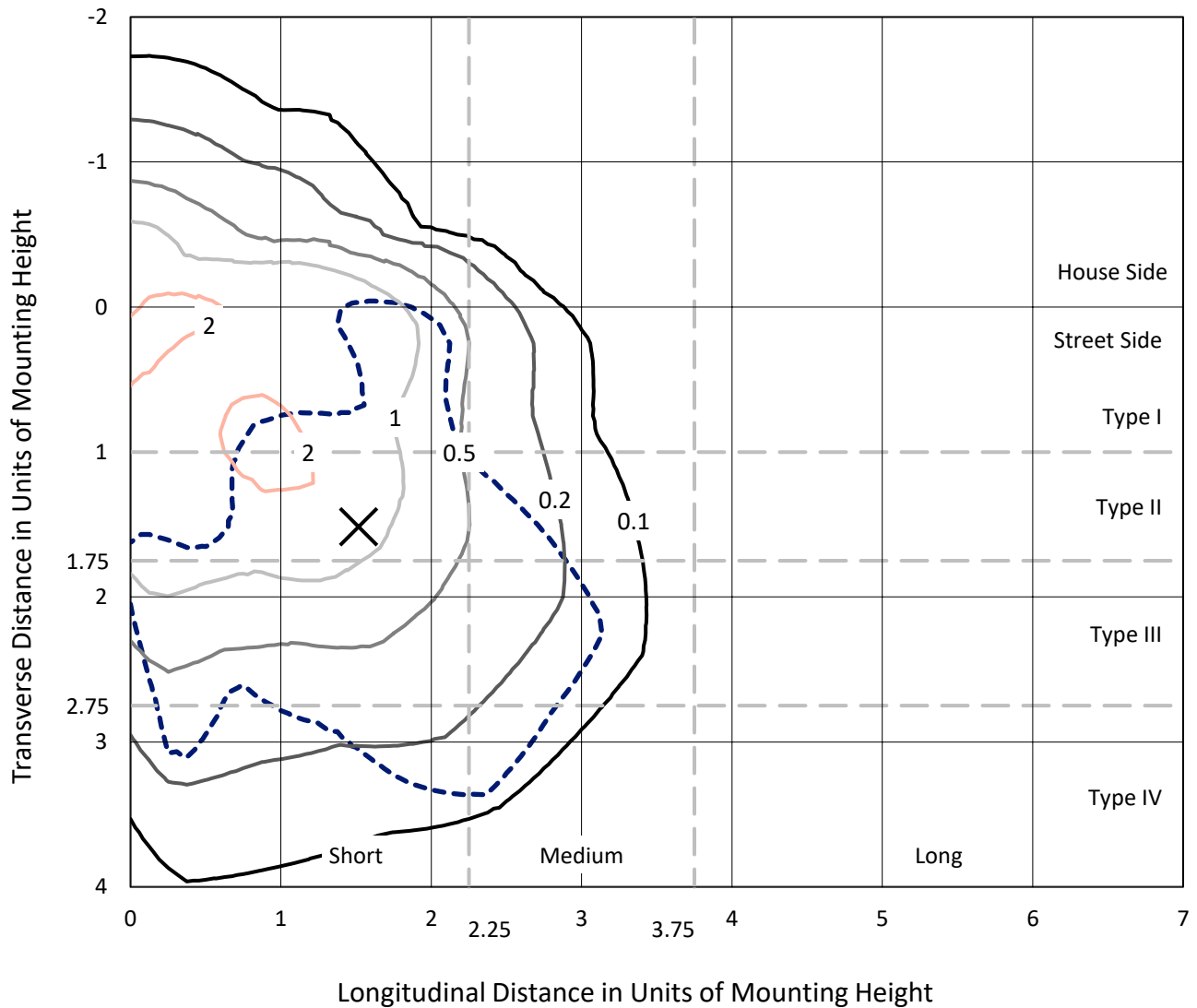
Lumens per Lamp: N/A  
Luminaire Lumens: 7722 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

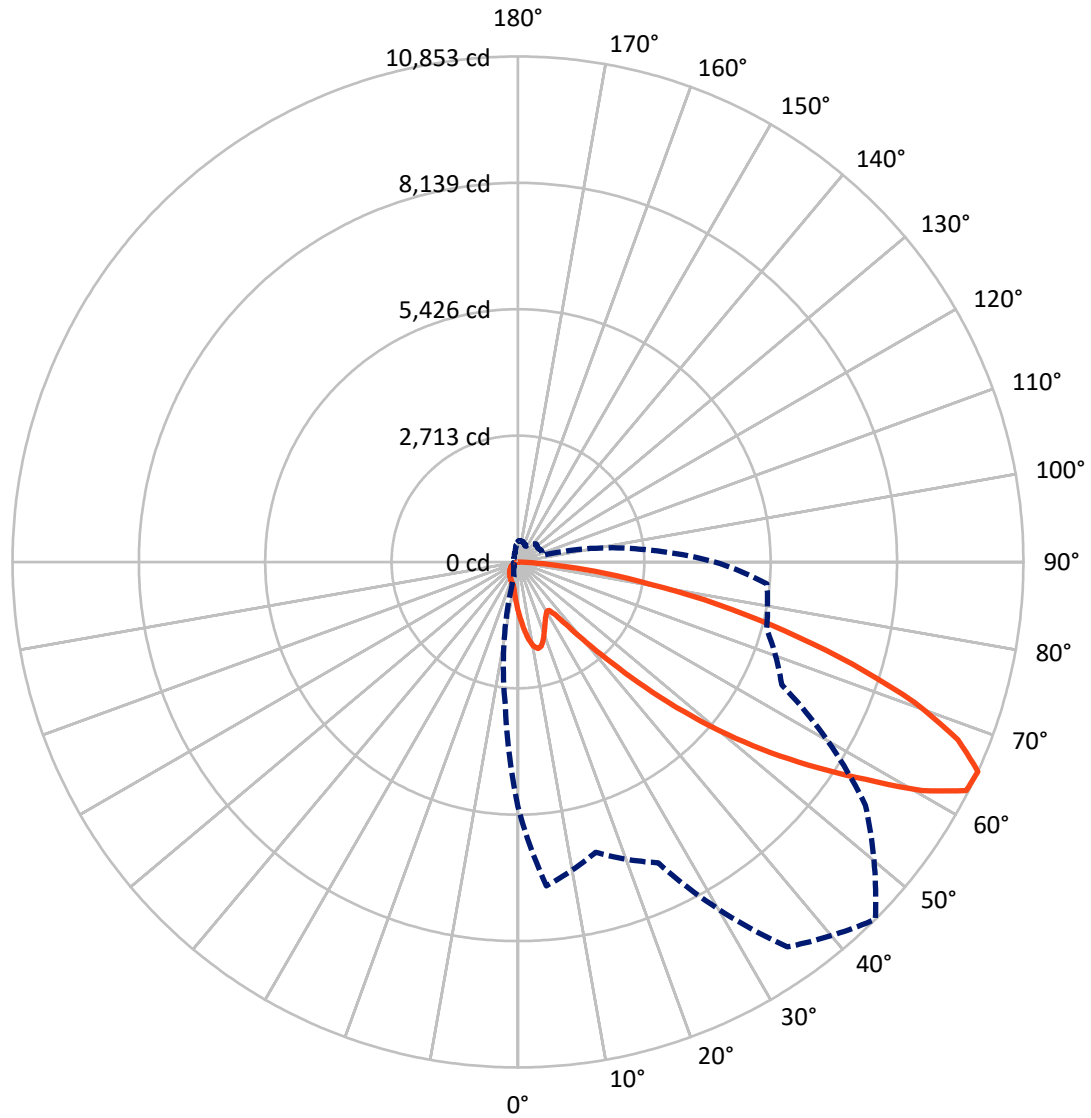
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1534.9	0.0	1534.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	6187.1	0.0	6187.1
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	7722.0	0.0	7722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.4
10°-20°	315.6	4.1
20°-30°	464.9	6.0
30°-40°	597.3	7.7
40°-50°	966.0	12.5
50°-60°	1693.9	21.9
60°-70°	2119.5	27.4
70°-80°	1238.6	16.0
80°-90°	221.0	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°	7722.0	100.0
0°-180°	7722.0	100.0

**Coefficient of Utilization**



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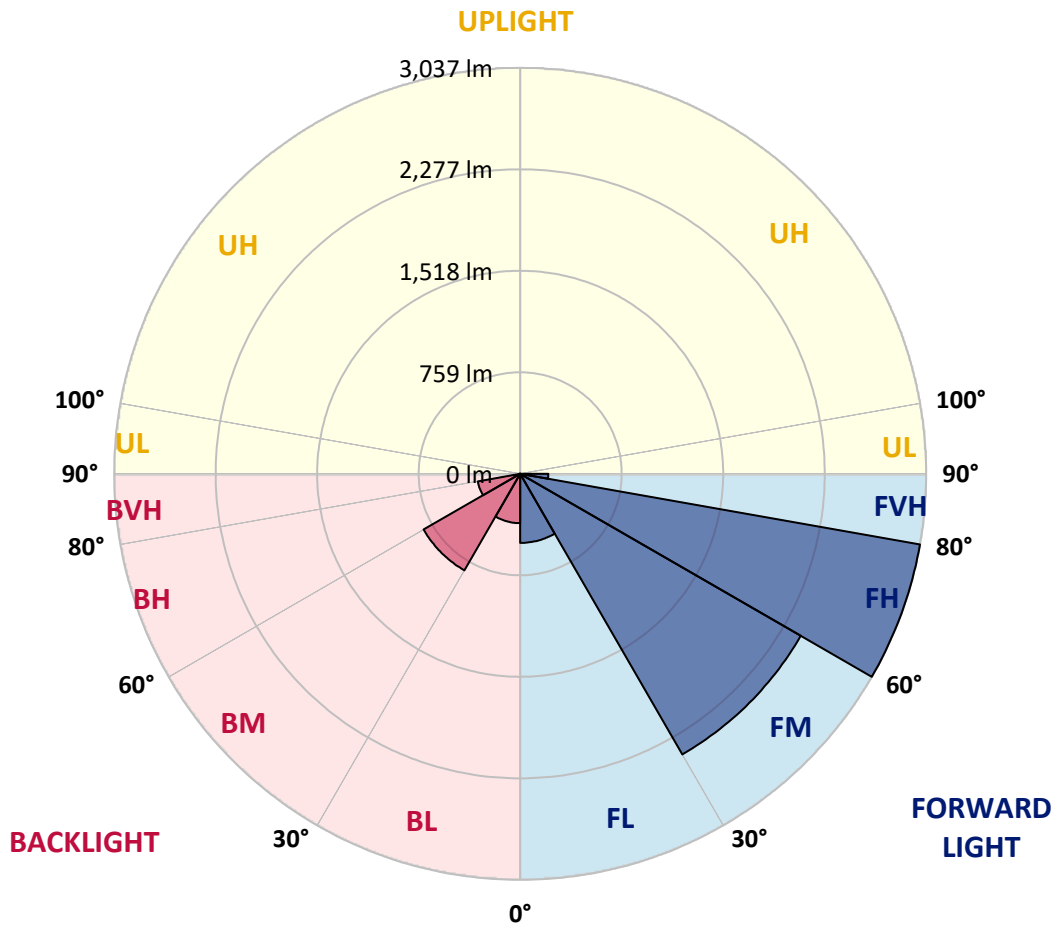
CATALOG NUMBER: GALN-SB2B-830-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.7	6.7			
FM (30°-60°)	2423.3	31.4			
FH (60°-80°)	3036.5	39.3			G2/5000
FVH (80°-90°)	210.6	2.7			G2/225
BL (0°-30°)	369.1	4.8	B1/500		
BM (30°-60°)	833.9	10.8	B1/1000		
BH (60°-80°)	321.6	4.2	B1/500		G1/500
BVH (80°-90°)	10.4	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1198.0	1207.0	1227.2	1237.9	1254.4	1255.4	1255.4	1241.1	1240.5	1211.3
5°	1339.0	1360.2	1408.1	1457.6	1468.2	1470.9	1465.6	1436.8	1415.6	1358.6
7.5°	1478.9	1519.8	1592.7	1658.7	1679.9	1679.9	1667.2	1620.4	1576.7	1494.3
10°	1594.8	1646.4	1745.4	1819.3	1843.8	1838.5	1812.4	1753.4	1693.2	1593.2
12.5°	1671.4	1729.4	1837.9	1897.5	1922.5	1908.7	1878.9	1821.4	1758.1	1652.8
15°	1709.7	1770.4	1864.5	1895.9	1889.0	1874.6	1870.9	1843.3	1795.4	1697.0
17.5°	1726.2	1782.6	1848.0	1828.4	1769.8	1758.7	1795.9	1831.0	1819.3	1735.3
20°	1741.7	1789.0	1808.7	1721.4	1619.3	1609.2	1680.5	1780.5	1831.6	1770.9
22.5°	1762.9	1792.2	1751.8	1608.7	1498.5	1475.1	1553.9	1704.4	1835.3	1816.1
25°	1792.2	1800.2	1689.0	1501.7	1391.1	1367.7	1441.1	1619.8	1828.9	1865.1
27.5°	1827.3	1810.8	1628.9	1412.4	1305.4	1283.6	1357.0	1538.4	1810.8	1914.0
30°	1873.0	1824.6	1569.3	1343.2	1244.3	1228.3	1299.1	1468.2	1788.5	1976.3
32.5°	1919.3	1830.5	1514.0	1302.8	1230.4	1236.3	1294.3	1430.5	1764.0	2035.8
35°	1969.3	1849.1	1486.8	1342.7	1345.9	1396.9	1420.9	1465.6	1760.3	2116.7
37.5°	2037.4	1890.6	1519.3	1541.1	1651.8	1757.6	1737.9	1637.4	1803.4	2237.4
40°	2135.3	1963.5	1660.8	1878.9	2106.0	2277.9	2202.9	1949.7	1935.3	2411.4
42.5°	2277.9	2079.5	1911.9	2291.7	2676.8	2959.9	2758.8	2352.3	2166.2	2659.8
45°	2488.5	2267.2	2215.6	2727.4	3380.6	3826.4	3408.3	2781.6	2489.6	3035.9
47.5°	2780.6	2543.3	2500.2	3186.5	4236.0	4812.7	4128.6	3179.6	2857.7	3548.7
50°	3168.4	2915.2	2769.9	3688.6	5173.9	5818.1	4848.3	3563.6	3279.6	4175.4
52.5°	3680.1	3433.8	3084.3	4166.9	6138.3	6802.2	5571.3	3900.9	3803.0	4902.6
55°	4378.1	4214.2	3514.2	4623.3	7102.3	7792.2	6266.0	4219.0	4494.6	5766.5
57.5°	5244.1	5361.1	4133.9	5152.6	7968.8	8812.5	6964.0	4663.7	5392.5	6732.6
60°	5802.7	6886.3	5320.7	5935.1	8953.5	9966.4	7920.4	5509.6	6336.2	7078.9
62.5°	5667.6	7371.4	6742.1	6934.2	9858.9	10805.3	8857.8	6359.1	6513.9	6568.7
65°	5253.2	6979.9	6452.2	7128.3	10088.2	10852.6	9108.3	6249.5	5525.5	5362.7
67.5°	4682.9	6515.5	5763.3	6613.4	9673.8	10190.9	8641.8	5528.2	4270.1	4024.3
70°	4067.4	6001.6	5311.1	6035.7	8883.8	9037.6	7848.6	4862.2	3140.7	2717.8
72.5°	3483.3	5466.5	5001.5	5443.6	7830.0	7511.9	6816.1	4273.3	2286.9	1960.3
75°	2885.9	4677.0	4560.5	4740.3	6444.2	5917.0	5663.3	3538.1	1794.9	1418.2
77.5°	2226.8	3654.6	3922.7	3796.1	4536.1	4395.1	4389.8	2658.8	1311.3	946.4
80°	1524.1	2547.0	3064.7	2677.9	2943.9	2872.1	3306.2	1783.7	951.2	569.7
82.5°	895.8	1550.7	2133.2	1296.4	1627.8	1670.9	1968.8	867.6	559.6	131.4
85°	363.3	612.3	834.1	507.5	785.2	662.3	747.4	243.6	155.9	3.2
87.5°	91.5	195.8	137.2	56.9	91.0	83.5	66.0	29.8	6.4	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
1208.1	2.5°	1187.3	1175.1	1144.8	1114.5	1090.0	1057.0	1035.2	1009.1	984.1	961.8
1346.4	5°	1312.9	1272.5	1217.1	1166.6	1115.0	1065.0	1015.5	963.4	915.5	886.3
1463.4	7.5°	1415.0	1343.7	1270.3	1206.0	1143.7	1085.2	1019.8	956.5	881.5	841.6
1552.8	10°	1491.1	1397.5	1301.2	1227.2	1164.5	1107.6	1052.2	988.4	898.0	848.0
1607.1	12.5°	1541.1	1429.9	1317.1	1232.6	1162.3	1118.2	1093.7	1068.7	978.8	920.3
1647.0	15°	1575.7	1452.8	1328.3	1220.3	1134.1	1101.7	1126.2	1154.9	1097.4	1029.9
1688.5	17.5°	1613.5	1482.6	1333.1	1187.3	1079.4	1065.5	1128.8	1195.3	1192.7	1125.6
1727.8	20°	1653.3	1508.7	1329.9	1134.1	1012.9	1025.1	1106.0	1183.1	1215.5	1179.4
1773.0	22.5°	1694.3	1533.7	1317.7	1065.0	950.6	988.9	1069.8	1137.3	1175.6	1164.5
1828.4	25°	1745.9	1568.8	1299.6	990.5	899.0	952.2	1027.8	1082.5	1109.1	1108.6
1887.9	27.5°	1807.6	1615.6	1290.0	930.4	862.3	910.7	977.8	1026.7	1045.3	1045.3
1961.9	30°	1879.4	1670.9	1279.4	891.0	841.0	867.6	919.8	967.6	986.3	986.3
2042.7	32.5°	1959.2	1724.1	1253.8	867.1	825.1	825.6	858.6	902.2	924.6	927.7
2143.8	35°	2055.0	1781.0	1198.0	848.0	806.5	784.6	800.6	836.8	863.4	870.3
2288.0	37.5°	2180.5	1850.7	1118.2	819.8	777.7	741.6	745.3	772.9	802.2	812.8
2486.9	40°	2349.2	1932.6	1035.2	779.3	737.3	694.2	692.6	712.8	741.6	753.3
2756.1	42.5°	2572.1	2031.0	955.9	740.5	688.4	644.2	641.5	657.5	682.5	694.7
3111.5	45°	2857.2	2151.8	887.8	710.2	640.5	596.9	595.8	609.1	630.9	643.7
3566.3	47.5°	3253.5	2272.6	841.6	694.2	602.7	558.0	560.2	571.9	591.5	600.6
4155.2	50°	3770.0	2309.3	818.2	694.2	582.5	523.5	534.1	543.7	558.6	563.9
4861.1	52.5°	4265.8	2188.0	796.9	698.5	585.2	494.2	517.1	524.0	536.8	538.9
5515.4	55°	4508.9	1881.0	767.6	699.5	601.7	469.2	503.2	516.0	520.8	520.3
5895.2	57.5°	4425.4	1520.9	718.2	695.3	612.8	453.2	486.2	510.7	513.9	509.1
5822.9	60°	4132.3	1119.8	680.4	663.9	608.6	448.4	460.1	499.0	503.8	497.4
5265.4	62.5°	3640.8	777.2	651.1	594.7	589.9	446.9	419.2	473.4	485.2	476.1
4232.3	65°	2866.2	549.0	560.7	521.3	549.5	438.3	376.6	442.6	458.6	444.7
3070.5	67.5°	1939.5	396.3	454.3	472.4	484.1	419.2	345.8	407.5	428.8	410.7
1970.4	70°	1047.4	278.2	300.0	397.9	411.2	386.2	318.1	371.8	396.3	376.6
1400.7	72.5°	618.7	200.0	210.1	319.7	342.6	339.9	287.3	330.4	360.1	336.7
966.6	75°	341.0	135.1	150.0	231.9	278.2	262.3	246.8	279.8	310.1	287.3
605.9	77.5°	152.7	80.9	104.3	152.1	218.6	179.8	191.0	218.1	246.3	222.4
337.3	80°	59.0	45.2	69.2	83.0	159.1	99.5	122.9	160.7	180.9	161.7
73.4	82.5°	7.4	20.2	29.8	32.4	92.6	52.7	71.3	101.1	99.5	86.2
0.0	85°	0.0	3.7	4.3	2.1	39.9	19.2	23.4	33.0	30.9	23.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
957.5	2.5°	931.5	912.3	902.7	894.8	902.2	906.5	906.5	924.6	935.2	939.5
867.6	5°	820.8	785.2	761.2	746.9	751.7	757.0	762.8	785.7	801.1	811.2
805.4	7.5°	733.6	679.3	645.8	628.3	630.9	634.6	639.4	661.8	677.2	690.5
793.7	10°	690.5	613.9	569.7	548.5	544.7	542.6	541.0	554.3	566.0	576.7
841.6	12.5°	692.6	585.7	532.0	505.9	494.7	482.0	471.9	474.0	481.4	494.7
927.2	15°	719.7	576.7	512.3	479.8	461.2	446.3	434.1	431.4	434.1	436.2
1025.1	17.5°	756.5	575.6	495.3	454.8	435.7	423.4	412.3	408.5	409.1	411.7
1090.0	20°	785.7	572.4	476.1	430.9	413.9	403.2	392.1	388.3	389.4	389.9
1096.4	22.5°	801.1	567.6	454.8	407.0	392.6	382.0	371.8	371.3	371.3	374.5
1061.8	25°	801.1	557.5	435.7	384.1	371.3	361.7	349.5	351.6	352.7	356.9
1008.1	27.5°	782.0	538.3	420.3	364.4	351.1	341.5	330.4	333.0	334.6	339.4
954.9	30°	757.5	515.5	402.7	345.8	330.4	323.4	313.9	314.9	317.1	322.4
905.4	32.5°	731.5	488.3	388.3	327.2	311.7	306.4	295.8	297.4	299.5	305.3
856.5	35°	702.7	456.4	371.3	310.1	294.7	290.5	278.2	279.3	282.5	288.9
803.8	37.5°	672.4	430.4	354.3	293.6	277.7	273.4	260.7	261.7	265.5	272.9
748.5	40°	642.6	404.8	336.2	276.1	260.1	256.4	242.6	243.6	247.9	255.9
692.6	42.5°	610.2	385.1	312.8	258.0	241.0	237.3	224.5	226.1	230.9	238.9
641.0	45°	571.3	372.4	286.7	241.0	221.8	218.1	206.4	209.6	214.9	222.9
596.9	47.5°	531.4	367.1	264.9	222.9	202.1	199.0	189.4	194.7	200.6	206.9
559.1	50°	493.1	360.1	242.6	205.9	185.1	181.9	175.5	182.5	188.3	194.2
532.0	52.5°	449.5	345.2	222.4	191.0	170.8	169.7	166.5	172.9	178.2	183.5
508.6	55°	404.3	321.3	204.8	177.7	158.5	159.6	158.0	163.3	167.6	172.4
487.3	57.5°	364.9	291.0	191.0	163.3	147.9	151.1	149.0	151.6	154.3	160.1
461.7	60°	325.0	254.8	175.5	146.3	137.2	141.0	135.1	134.6	135.7	137.2
424.0	62.5°	271.3	217.0	156.4	131.4	125.5	127.1	116.0	107.5	107.5	109.1
371.3	65°	218.1	181.9	135.1	114.4	109.6	108.5	92.6	80.9	79.8	84.6
310.1	67.5°	179.3	151.1	113.8	95.2	92.0	93.1	81.4	69.7	68.6	73.9
252.7	70°	148.4	121.8	91.0	73.4	76.6	81.4	69.7	58.5	56.9	61.7
205.3	72.5°	118.1	95.2	69.7	54.3	63.3	69.2	56.9	46.3	45.2	49.5
158.5	75°	86.7	68.1	47.3	39.4	48.9	54.3	41.5	33.0	31.4	35.1
105.9	77.5°	53.7	38.3	29.8	23.4	33.5	36.2	21.8	19.2	18.6	21.3
64.4	80°	25.0	16.5	14.4	8.0	12.2	14.4	9.0	10.1	10.6	12.8
32.4	82.5°	6.9	2.7	0.5	0.0	0.0	4.3	2.1	4.3	5.3	8.0
2.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	4.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
969.2	2.5°	991.6	1012.9	1046.9	1082.0	1116.6	1151.7	1185.8	1198.0
857.5	5°	899.6	948.5	1016.1	1088.4	1162.9	1238.4	1307.6	1339.0
742.1	7.5°	796.9	867.1	968.7	1082.0	1200.6	1319.3	1428.3	1478.9
627.7	10°	687.3	776.1	892.1	1045.3	1215.5	1379.4	1529.4	1594.8
527.2	12.5°	583.0	676.1	804.3	987.9	1203.8	1414.0	1594.3	1671.4
456.4	15°	495.8	578.2	716.6	919.8	1166.1	1416.1	1625.2	1709.7
417.1	17.5°	430.4	484.1	627.2	844.2	1116.6	1396.4	1635.8	1726.2
395.8	20°	397.9	412.8	511.2	747.4	1070.3	1377.8	1646.4	1741.7
378.8	22.5°	378.8	382.5	418.1	622.4	1015.0	1371.9	1665.1	1762.9
363.3	25°	363.3	364.4	374.0	493.1	930.4	1368.2	1693.8	1792.2
347.4	27.5°	347.9	347.9	353.2	397.4	815.5	1352.3	1731.0	1827.3
331.4	30°	332.5	332.5	336.2	351.6	680.9	1320.9	1775.7	1873.0
315.5	32.5°	316.5	316.5	319.7	330.9	543.7	1281.5	1816.7	1919.3
299.0	35°	300.6	299.5	303.8	315.5	432.5	1231.5	1857.6	1969.3
282.5	37.5°	283.5	283.0	287.3	300.6	373.4	1173.5	1888.5	2037.4
266.0	40°	265.5	265.5	270.2	284.6	356.4	1100.6	1937.4	2135.3
249.0	42.5°	249.0	247.9	253.2	270.8	343.6	1030.9	2025.2	2277.9
233.5	45°	233.0	230.9	235.7	257.5	321.3	1006.5	2189.0	2488.5
218.6	47.5°	218.1	212.8	217.0	241.5	301.1	1098.0	2457.1	2780.6
205.3	50°	205.9	195.8	199.5	225.6	285.7	1296.4	2805.1	3168.4
193.1	52.5°	193.1	179.8	181.9	205.9	271.8	1485.2	3182.2	3680.1
180.9	55°	179.8	164.9	166.0	186.2	252.2	1513.4	3550.3	4378.1
167.0	57.5°	164.9	151.1	151.1	168.1	237.8	1311.8	3833.3	5244.1
150.0	60°	148.4	139.4	136.7	153.7	250.6	925.6	3866.3	5802.7
128.2	62.5°	130.3	125.5	121.8	139.9	260.1	548.5	3600.9	5667.6
101.1	65°	109.6	108.5	105.9	153.7	219.2	324.0	3091.2	5253.2
86.2	67.5°	92.0	90.4	90.4	161.2	166.5	203.7	2415.1	4682.9
73.4	70°	79.3	73.4	73.4	121.8	101.1	141.0	1686.3	4067.4
60.6	72.5°	66.5	60.1	55.9	97.3	75.5	103.2	1053.8	3483.3
46.3	75°	53.2	48.4	43.1	64.4	56.4	78.2	612.3	2885.9
29.3	77.5°	38.3	36.2	30.3	47.3	41.0	56.4	364.4	2226.8
18.1	80°	19.7	20.2	19.2	27.1	27.7	38.3	207.5	1524.1
11.7	82.5°	11.7	9.0	10.1	13.3	16.0	21.8	78.2	895.8
8.5	85°	7.4	4.8	4.8	6.4	8.0	8.5	23.9	363.3
4.3	87.5°	3.7	1.6	2.1	3.2	2.7	2.1	1.1	91.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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