

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: P946836

Luminaire Tested: **GALN-SB2B-840-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946836  
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-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

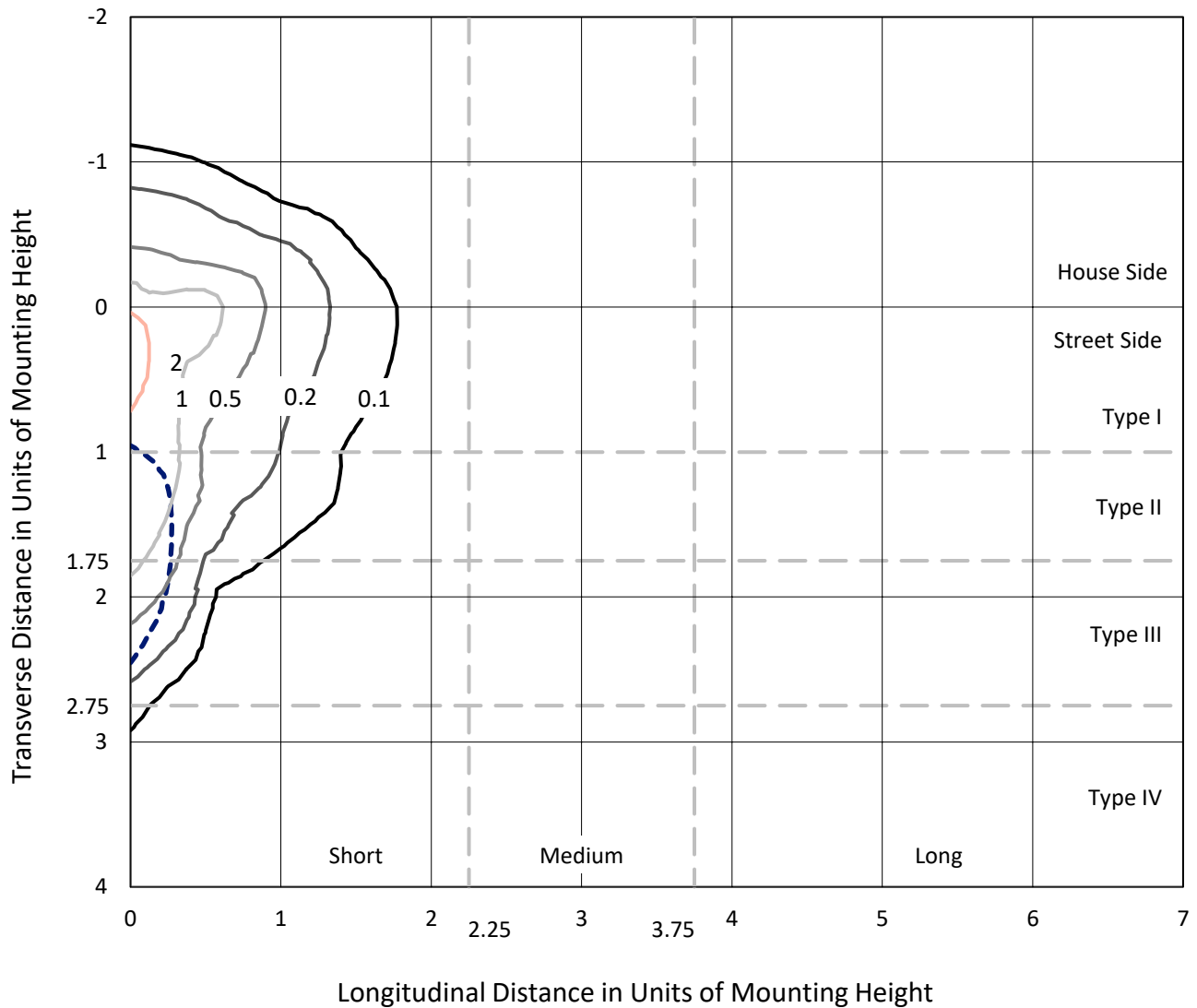
Lumens per Lamp: N/A  
Luminaire Lumens: 8221 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

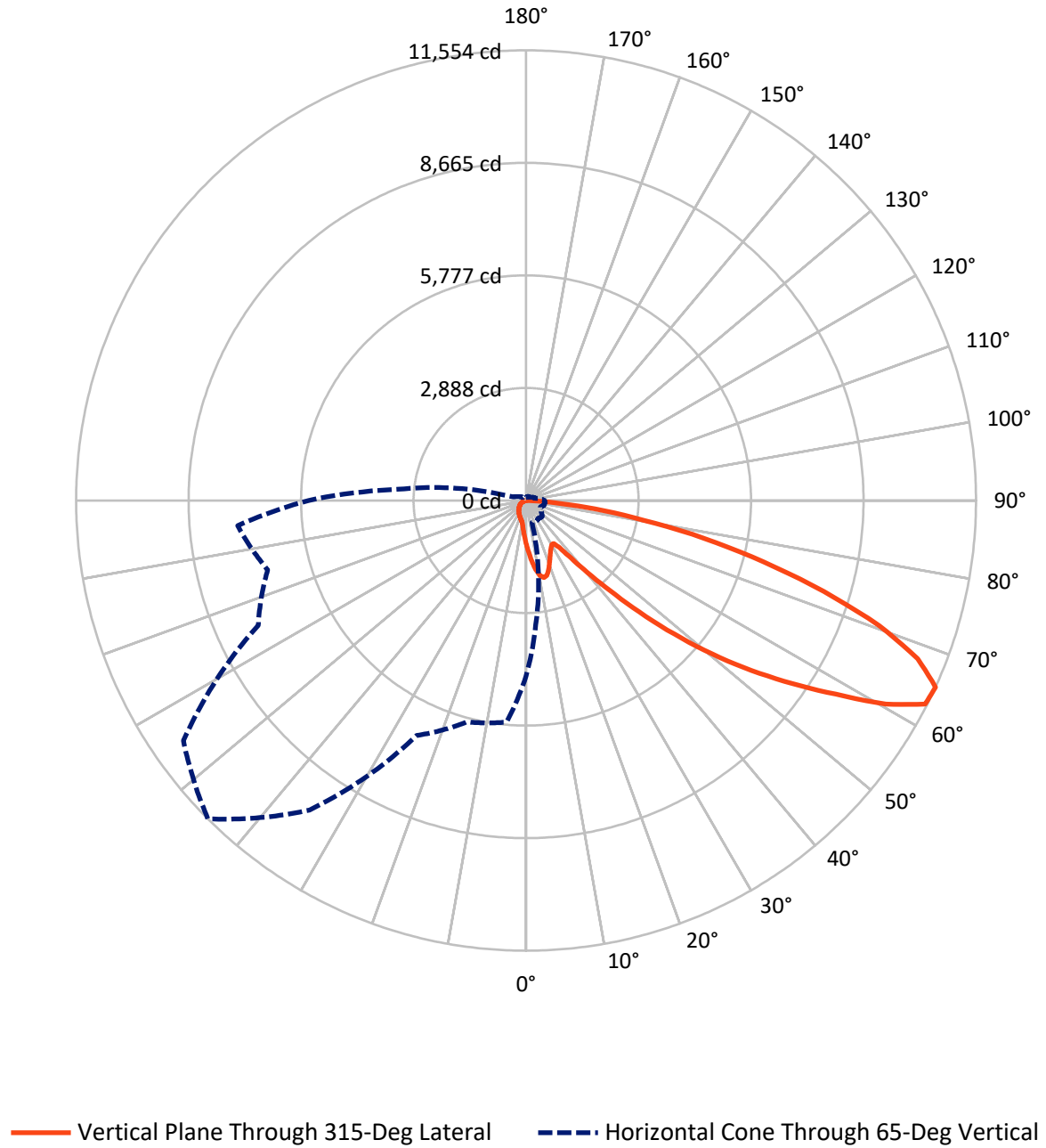
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1151.3	0.0	1151.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7069.7	0.0	7069.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8221.0	0.0	8221.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	1.4
10°-20°	336.0	4.1
20°-30°	494.9	6.0
30°-40°	635.9	7.7
40°-50°	1028.4	12.5
50°-60°	1803.4	21.9
60°-70°	2256.5	27.4
70°-80°	1318.6	16.0
80°-90°	235.3	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°	8221.0	100.0
0°-180°	8221.0	100.0

**Coefficient of Utilization**



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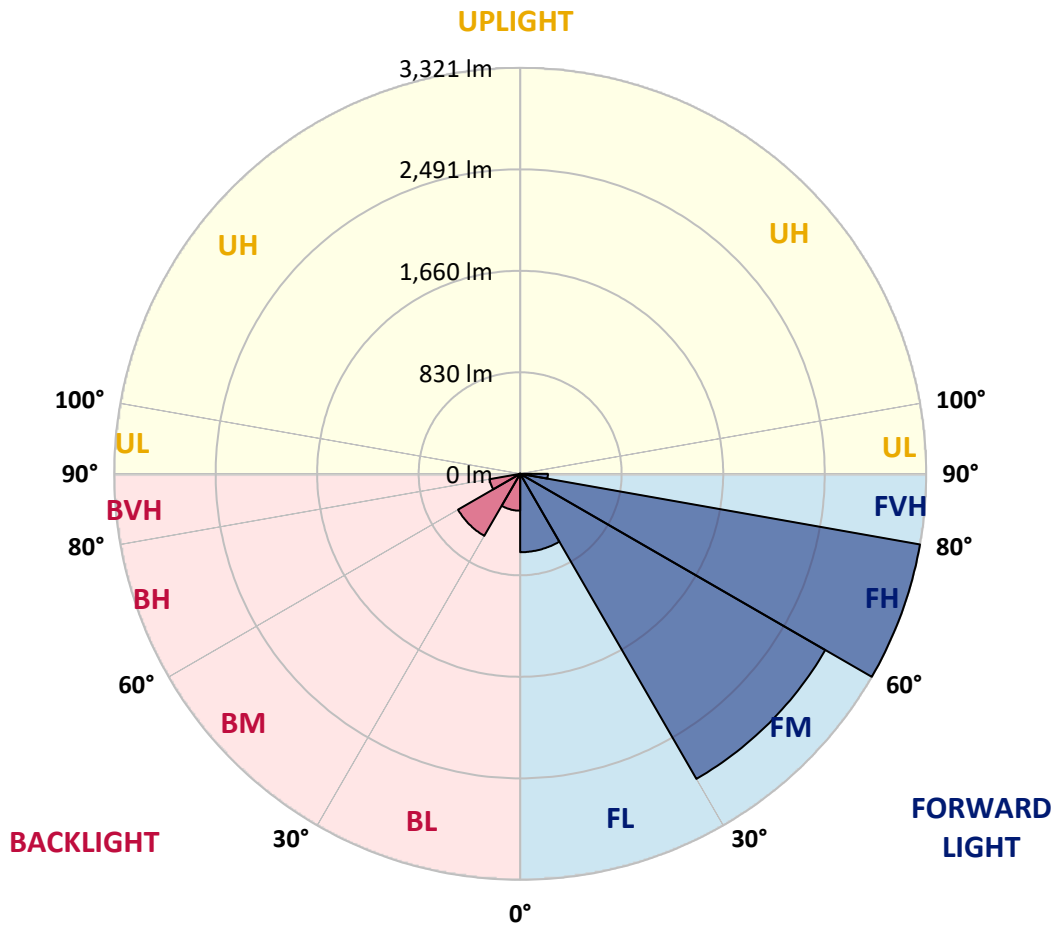
CATALOG NUMBER: GALN-SB2B-840-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.2	7.8			
FM (30°-60°)	2881.4	35.0			
FH (60°-80°)	3320.9	40.4			G2/5000
FVH (80°-90°)	226.2	2.8			G3/500
BL (0°-30°)	301.8	3.7	B1/500		
BM (30°-60°)	586.3	7.1	B1/1000		
BH (60°-80°)	254.2	3.1	B1/500		G1/500
BVH (80°-90°)	9.0	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°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1286.2	1264.1	1251.0	1218.8	1186.5	1160.4	1125.3	1102.1	1074.3	1047.7
5°	1433.4	1397.7	1354.7	1295.8	1242.0	1187.1	1133.8	1081.1	1025.6	974.7
7.5°	1558.0	1506.5	1430.6	1352.4	1283.9	1217.6	1155.3	1085.7	1018.3	938.4
10°	1653.1	1587.5	1487.8	1385.3	1306.5	1239.7	1179.1	1120.2	1052.3	956.0
12.5°	1710.9	1640.7	1522.3	1402.3	1312.2	1237.5	1190.4	1164.4	1137.8	1042.1
15°	1753.4	1677.5	1546.7	1414.2	1299.2	1207.4	1172.9	1198.9	1229.5	1168.4
17.5°	1797.6	1717.7	1578.4	1419.3	1264.1	1149.1	1134.4	1201.8	1272.6	1269.7
20°	1839.5	1760.2	1606.1	1415.9	1207.4	1078.3	1091.3	1177.4	1259.5	1294.1
22.5°	1887.6	1803.8	1632.8	1402.8	1133.8	1012.1	1052.8	1138.9	1210.8	1251.6
25°	1946.5	1858.7	1670.1	1383.6	1054.5	957.1	1013.8	1094.2	1152.5	1180.8
27.5°	2009.9	1924.4	1720.0	1373.4	990.5	918.0	969.6	1040.9	1093.0	1112.9
30°	2088.7	2000.9	1778.9	1362.1	948.6	895.4	923.7	979.2	1030.2	1050.0
32.5°	2174.7	2085.8	1835.5	1334.9	923.1	878.4	879.0	914.1	960.5	984.3
35°	2282.4	2187.8	1896.1	1275.4	902.7	858.6	835.4	852.3	890.9	919.2
37.5°	2435.8	2321.4	1970.3	1190.4	872.7	828.0	789.5	793.4	822.9	854.0
40°	2647.6	2501.0	2057.5	1102.1	829.7	784.9	739.1	737.4	758.9	789.5
42.5°	2934.2	2738.3	2162.3	1017.7	788.3	732.8	685.8	683.0	700.0	726.6
45°	3312.5	3041.8	2290.8	945.2	756.1	681.9	635.4	634.3	648.5	671.7
47.5°	3796.8	3463.7	2419.4	896.0	739.1	641.7	594.1	596.4	608.8	629.8
50°	4423.7	4013.7	2458.5	871.0	739.1	620.1	557.3	568.6	578.8	594.7
52.5°	5175.2	4541.5	2329.4	848.4	743.6	623.0	526.1	550.5	557.8	571.4
55°	5871.8	4800.3	2002.6	817.2	744.7	640.5	499.5	535.8	549.4	554.4
57.5°	6276.2	4711.4	1619.2	764.6	740.2	652.4	482.5	517.6	543.7	547.1
60°	6199.2	4399.3	1192.1	724.4	706.8	647.9	477.4	489.9	531.2	536.3
62.5°	5605.6	3876.0	827.4	693.2	633.2	628.1	475.7	446.3	504.0	516.5
65°	4505.8	3051.4	584.5	596.9	555.0	585.0	466.7	401.0	471.2	488.2
67.5°	3268.9	2064.9	421.9	483.7	502.9	515.4	446.3	368.1	433.8	456.5
70°	2097.7	1115.1	296.2	319.4	423.6	437.8	411.2	338.7	395.9	421.9
72.5°	1491.2	658.7	212.9	223.7	340.4	364.7	361.9	305.8	351.7	383.4
75°	1029.0	363.0	143.9	159.7	246.9	296.2	279.2	262.8	297.9	330.2
77.5°	645.1	162.5	86.1	111.0	162.0	232.8	191.4	203.3	232.2	262.2
80°	359.1	62.9	48.1	73.6	88.3	169.3	105.9	130.8	171.0	192.6
82.5°	78.2	7.9	21.5	31.7	34.5	98.5	56.1	75.9	107.6	105.9
85°	0.0	0.0	4.0	4.5	2.3	42.5	20.4	24.9	35.1	32.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°
1138.3	0°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
1023.9	2.5°	1019.4	991.7	971.3	961.1	952.6	960.5	965.0	965.0	984.3	995.6
943.5	5°	923.7	873.9	835.9	810.4	795.1	800.2	805.9	812.1	836.5	852.9
896.0	7.5°	857.4	781.0	723.2	687.5	668.8	671.7	675.6	680.7	704.5	721.0
902.7	10°	845.0	735.1	653.6	606.6	583.9	579.9	577.7	576.0	590.1	602.6
979.8	12.5°	896.0	737.4	623.5	566.3	538.6	526.7	513.1	502.3	504.6	512.5
1096.4	15°	987.1	766.3	613.9	545.4	510.8	491.0	475.2	462.1	459.3	462.1
1198.4	17.5°	1091.3	805.3	612.8	527.3	484.2	463.8	450.8	438.9	434.9	435.5
1255.6	20°	1160.4	836.5	609.4	506.9	458.7	440.6	429.3	417.4	413.4	414.6
1239.7	22.5°	1167.2	852.9	604.3	484.2	433.3	418.0	406.6	395.9	395.3	395.3
1180.3	25°	1130.4	852.9	593.5	463.8	408.9	395.3	385.1	372.1	374.4	375.5
1112.9	27.5°	1073.2	832.5	573.1	447.4	387.9	373.8	363.6	351.7	354.5	356.2
1050.0	30°	1016.6	806.5	548.8	428.7	368.1	351.7	344.3	334.1	335.3	337.5
987.7	32.5°	963.9	778.7	519.9	413.4	348.3	331.9	326.2	314.9	316.6	318.8
926.5	35°	911.8	748.1	485.9	395.3	330.2	313.8	309.2	296.2	297.3	300.7
865.4	37.5°	855.7	715.9	458.2	377.2	312.6	295.6	291.1	277.5	278.6	282.6
801.9	40°	796.8	684.1	431.0	357.9	293.9	276.9	273.0	258.3	259.4	263.9
739.6	42.5°	737.4	649.6	410.0	333.0	274.7	256.6	252.6	239.0	240.7	245.8
685.3	45°	682.4	608.3	396.4	305.3	256.6	236.2	232.2	219.7	223.1	228.8
639.4	47.5°	635.4	565.8	390.8	282.0	237.3	215.2	211.8	201.6	207.3	213.5
600.3	50°	595.2	525.0	383.4	258.3	219.2	197.1	193.7	186.9	194.3	200.5
573.7	52.5°	566.3	478.6	367.6	236.7	203.3	181.8	180.7	177.3	184.1	189.7
553.9	55°	541.4	430.4	342.1	218.0	189.2	168.8	169.9	168.2	173.9	178.4
542.0	57.5°	518.8	388.5	309.8	203.3	173.9	157.4	160.8	158.6	161.4	164.2
529.5	60°	491.6	346.0	271.3	186.9	155.7	146.1	150.1	143.9	143.3	144.4
506.9	62.5°	451.4	288.8	231.1	166.5	139.9	133.7	135.4	123.5	114.4	114.4
473.5	65°	395.3	232.2	193.7	143.9	121.8	116.7	115.5	98.5	86.1	85.0
437.2	67.5°	330.2	190.9	160.8	121.2	101.4	98.0	99.1	86.7	74.2	73.1
401.0	70°	269.0	158.0	129.7	96.8	78.2	81.6	86.7	74.2	62.3	60.6
358.5	72.5°	218.6	125.7	101.4	74.2	57.8	67.4	73.6	60.6	49.3	48.1
305.8	75°	168.8	92.3	72.5	50.4	41.9	52.1	57.8	44.2	35.1	33.4
236.7	77.5°	112.7	57.2	40.8	31.7	24.9	35.7	38.5	23.2	20.4	19.8
172.2	80°	68.5	26.6	17.6	15.3	8.5	13.0	15.3	9.6	10.8	11.3
91.7	82.5°	34.5	7.4	2.8	0.6	0.0	0.0	4.5	2.3	4.5	5.7
24.9	85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.8
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°
1138.3	0°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
1000.2	2.5°	1031.9	1055.7	1078.3	1114.6	1151.9	1188.7	1226.1	1262.4	1275.4	1285.0
863.7	5°	912.9	957.7	1009.8	1081.7	1158.7	1238.0	1318.4	1392.1	1425.5	1448.1
735.1	7.5°	790.0	848.4	923.1	1031.3	1151.9	1278.2	1404.5	1520.6	1574.4	1618.0
613.9	10°	668.3	731.7	826.3	949.8	1112.9	1294.1	1468.5	1628.2	1697.9	1752.8
526.7	12.5°	561.2	620.7	719.8	856.3	1051.7	1281.6	1505.3	1697.3	1779.4	1841.2
464.4	15°	485.9	527.8	615.6	762.9	979.2	1241.4	1507.6	1730.2	1820.2	1884.8
438.3	17.5°	444.0	458.2	515.4	667.7	898.8	1188.7	1486.6	1741.5	1837.8	1897.8
415.1	20°	421.4	423.6	439.5	544.3	795.7	1139.5	1466.8	1752.8	1854.2	1904.6
398.7	22.5°	403.2	403.2	407.2	445.1	662.6	1080.6	1460.6	1772.6	1876.9	1908.0
380.0	25°	386.8	386.8	387.9	398.1	525.0	990.5	1456.6	1803.2	1908.0	1916.5
361.3	27.5°	369.8	370.4	370.4	376.1	423.1	868.2	1439.6	1842.9	1945.4	1927.8
343.2	30°	352.8	354.0	354.0	357.9	374.4	724.9	1406.2	1890.4	1994.1	1942.5
325.1	32.5°	335.8	337.0	337.0	340.4	352.3	578.8	1364.3	1934.1	2043.4	1948.8
307.5	35°	318.3	320.0	318.8	323.4	335.8	460.4	1311.1	1977.7	2096.6	1968.6
290.5	37.5°	300.7	301.9	301.3	305.8	320.0	397.6	1249.3	2010.5	2169.1	2012.8
272.4	40°	283.2	282.6	282.6	287.7	303.0	379.4	1171.8	2062.6	2273.3	2090.4
254.3	42.5°	265.0	265.0	263.9	269.6	288.3	365.9	1097.6	2156.1	2425.1	2213.8
237.3	45°	248.6	248.1	245.8	250.9	274.1	342.1	1071.5	2330.5	2649.3	2413.7
220.3	47.5°	232.8	232.2	226.5	231.1	257.1	320.5	1168.9	2615.9	2960.3	2707.7
206.7	50°	218.6	219.2	208.4	212.4	240.1	304.1	1380.2	2986.3	3373.1	3103.5
195.4	52.5°	205.6	205.6	191.4	193.7	219.2	289.4	1581.2	3387.9	3917.9	3655.7
183.5	55°	192.6	191.4	175.6	176.7	198.2	268.4	1611.2	3779.8	4661.0	4486.6
170.5	57.5°	177.8	175.6	160.8	160.8	179.0	253.2	1396.6	4081.1	5583.0	5707.6
146.1	60°	159.7	158.0	148.4	145.5	163.7	266.7	985.4	4116.2	6177.6	7331.3
116.1	62.5°	136.5	138.8	133.7	129.7	148.9	276.9	583.9	3833.6	6033.8	7847.8
90.0	65°	107.6	116.7	115.5	112.7	163.7	233.3	344.9	3291.0	5592.6	7431.0
78.7	67.5°	91.7	98.0	96.3	96.3	171.6	177.3	216.9	2571.2	4985.5	6936.5
65.7	70°	78.2	84.4	78.2	78.2	129.7	107.6	150.1	1795.3	4330.2	6389.5
52.7	72.5°	64.6	70.8	64.0	59.5	103.6	80.4	109.9	1121.9	3708.4	5819.7
37.4	75°	49.3	56.6	51.5	45.9	68.5	60.0	83.3	651.9	3072.4	4979.3
22.7	77.5°	31.1	40.8	38.5	32.3	50.4	43.6	60.0	387.9	2370.7	3890.8
13.6	80°	19.3	21.0	21.5	20.4	28.9	29.4	40.8	220.9	1622.6	2711.6
8.5	82.5°	12.5	12.5	9.6	10.8	14.2	17.0	23.2	83.3	953.7	1650.9
5.1	85°	9.1	7.9	5.1	5.1	6.8	8.5	9.1	25.5	386.8	651.9
2.3	87.5°	4.5	4.0	1.7	2.3	3.4	2.8	2.3	1.1	97.4	208.4
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°
1138.3	0°	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3	1138.3
1306.5	2.5°	1317.9	1335.4	1336.6	1336.6	1321.3	1320.7	1289.6	1286.2
1499.1	5°	1551.8	1563.1	1565.9	1560.3	1529.7	1507.0	1446.4	1433.4
1695.6	7.5°	1765.9	1788.5	1788.5	1774.9	1725.1	1678.6	1590.9	1558.0
1858.2	10°	1936.9	1962.9	1957.3	1929.5	1866.7	1802.7	1696.2	1653.1
1956.7	12.5°	2020.1	2046.8	2032.0	2000.3	1939.2	1871.8	1759.6	1710.9
1985.0	15°	2018.4	2011.1	1995.8	1991.8	1962.4	1911.4	1806.6	1753.4
1967.5	17.5°	1946.5	1884.2	1872.3	1912.0	1949.3	1936.9	1847.4	1797.6
1925.6	20°	1832.7	1723.9	1713.2	1789.1	1895.5	1949.9	1885.3	1839.5
1865.0	22.5°	1712.6	1595.4	1570.5	1654.3	1814.6	1953.9	1933.5	1887.6
1798.1	25°	1598.8	1481.0	1456.1	1534.2	1724.5	1947.1	1985.6	1946.5
1734.1	27.5°	1503.6	1389.8	1366.6	1444.7	1637.9	1927.8	2037.7	2009.9
1670.7	30°	1430.0	1324.7	1307.7	1383.0	1563.1	1904.0	2104.0	2088.7
1611.8	32.5°	1387.0	1309.9	1316.2	1377.9	1522.9	1878.0	2167.4	2174.7
1582.9	35°	1429.4	1432.8	1487.2	1512.7	1560.3	1874.0	2253.5	2282.4
1617.5	37.5°	1640.7	1758.5	1871.2	1850.2	1743.2	1919.9	2382.0	2435.8
1768.1	40°	2000.3	2242.1	2425.1	2345.2	2075.6	2060.3	2567.2	2647.6
2035.4	42.5°	2439.8	2849.8	3151.1	2937.0	2504.4	2306.1	2831.7	2934.2
2358.8	45°	2903.6	3599.1	4073.7	3628.5	2961.4	2650.5	3232.1	3312.5
2661.8	47.5°	3392.4	4509.8	5123.7	4395.4	3385.0	3042.4	3778.1	3796.8
2948.9	50°	3927.0	5508.2	6194.1	5161.6	3793.9	3491.5	4445.2	4423.7
3283.6	52.5°	4436.1	6535.0	7241.8	5931.3	4153.0	4048.8	5219.4	5175.2
3741.2	55°	4922.1	7561.2	8295.8	6670.9	4491.7	4785.0	6139.1	5871.8
4401.0	57.5°	5485.6	8483.8	9382.0	7414.0	4965.1	5741.0	7167.6	6276.2
5664.5	60°	6318.7	9532.1	10610.4	8432.3	5865.6	6745.7	7536.3	6199.2
7177.8	62.5°	7382.3	10496.0	11503.5	9430.1	6770.0	6934.8	6993.2	5605.6
6869.2	65°	7589.0	10740.1	11553.9	9696.9	6653.4	5882.6	5709.3	4505.8
6135.7	67.5°	7040.8	10298.9	10849.4	9200.2	5885.4	4546.0	4284.4	3268.9
5654.3	70°	6425.7	9457.9	9621.6	8355.8	5176.4	3343.7	2893.4	2097.7
5324.7	72.5°	5795.4	8336.0	7997.3	7256.5	4549.4	2434.7	2087.0	1491.2
4855.2	75°	5046.7	6860.7	6299.4	6029.3	3766.7	1910.8	1509.9	1029.0
4176.2	77.5°	4041.4	4829.2	4679.1	4673.4	2830.6	1396.0	1007.5	645.1
3262.7	80°	2851.0	3134.1	3057.7	3519.8	1898.9	1012.6	606.6	359.1
2271.0	82.5°	1380.2	1733.0	1778.9	2096.0	923.7	595.8	139.9	78.2
888.0	85°	540.3	835.9	705.1	795.7	259.4	165.9	3.4	0.0
146.1	87.5°	60.6	96.8	88.9	70.2	31.7	6.8	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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