

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: P947319

Luminaire Tested: **GALN-SB2C-950-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947319  
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-SB2C-950-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

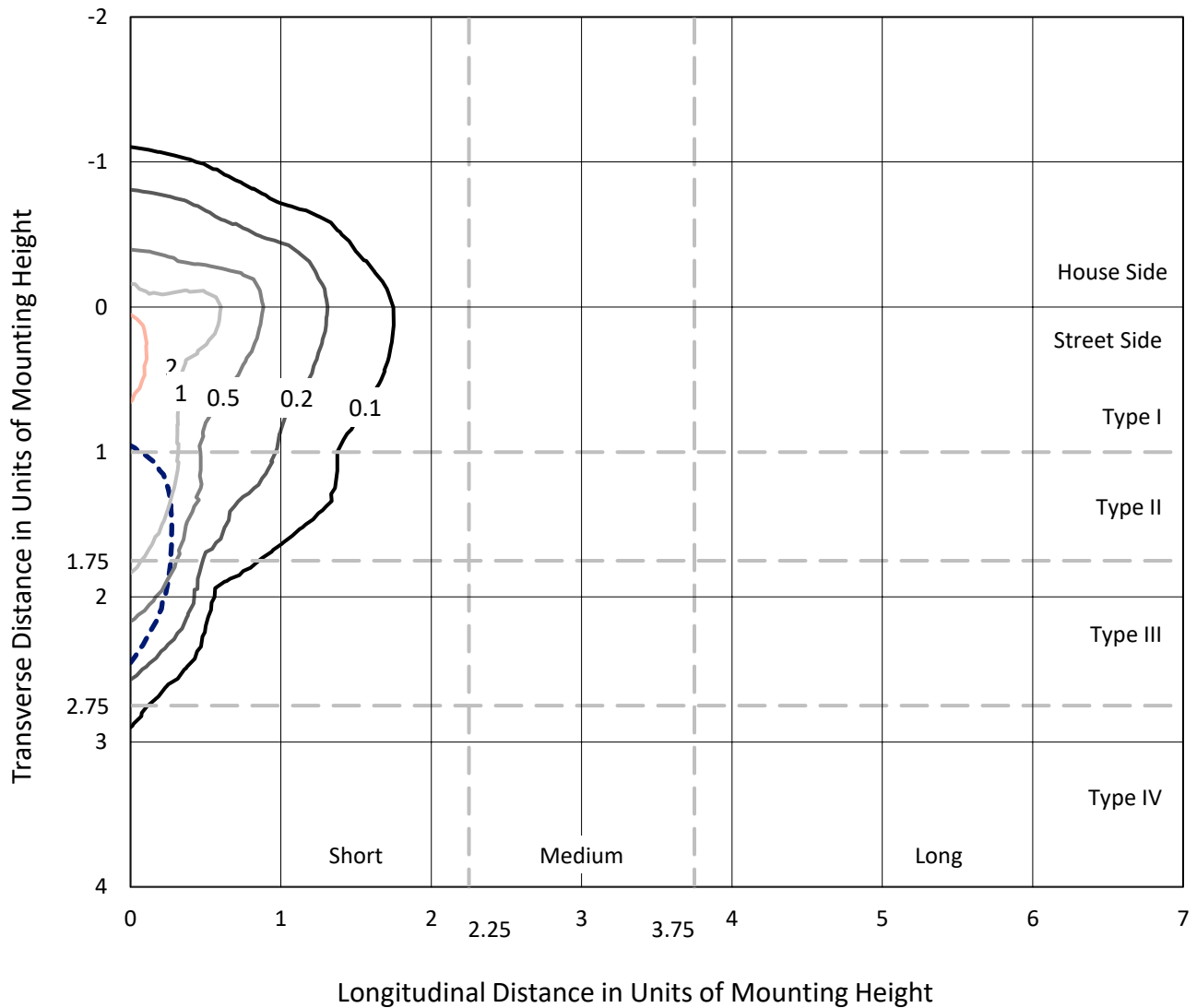
Lumens per Lamp: N/A  
Luminaire Lumens: 7951 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

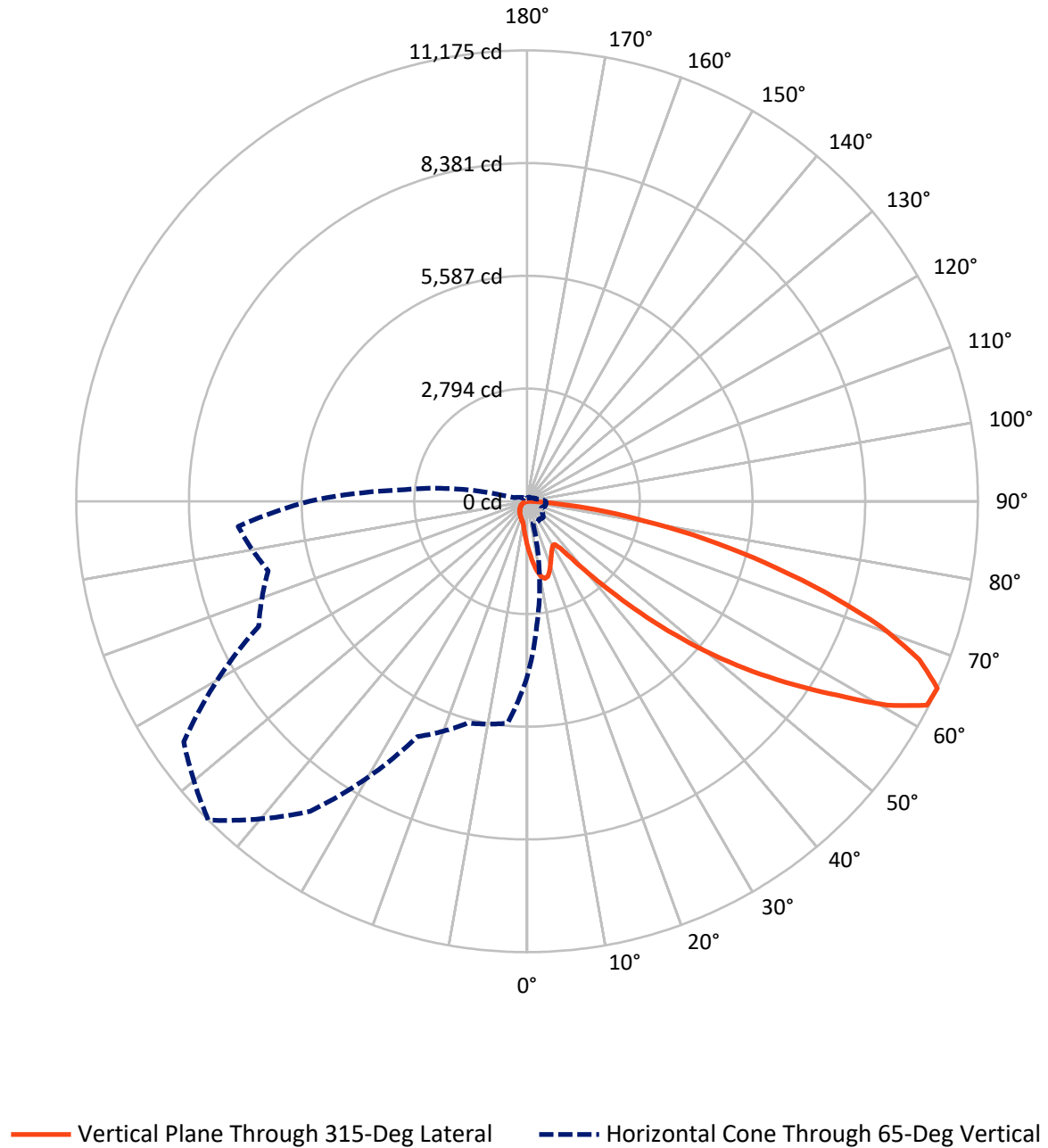
× Max cd  
 - - - 1/2 Max cd



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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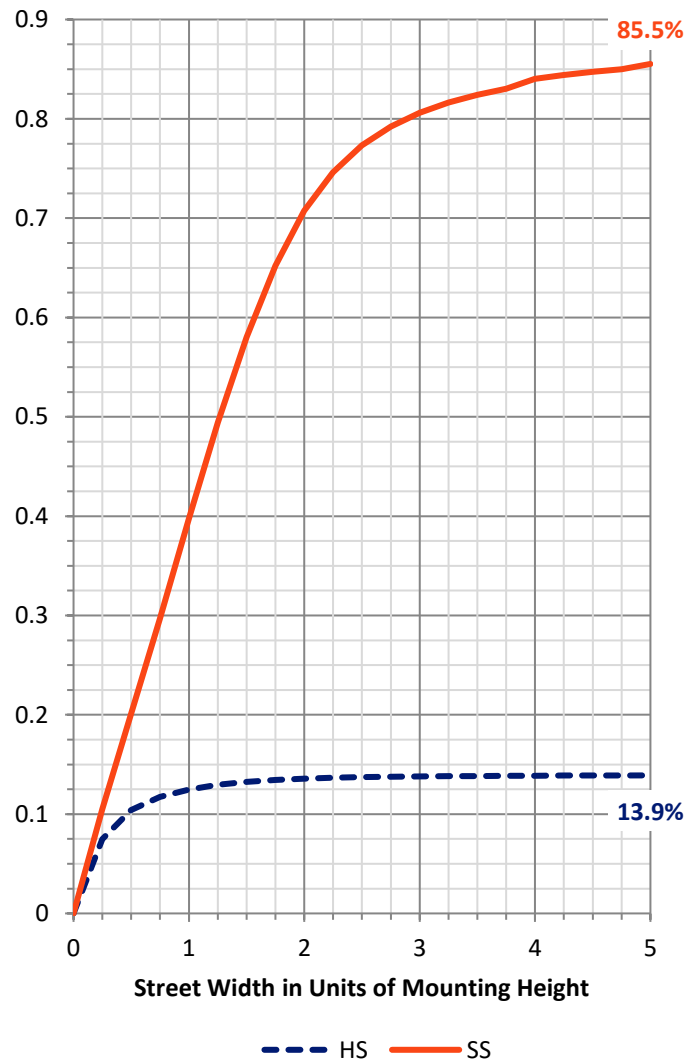
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1113.5	0.0	1113.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6837.5	0.0	6837.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7951.0	0.0	7951.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	1.4
10°-20°	324.9	4.1
20°-30°	478.7	6.0
30°-40°	615.0	7.7
40°-50°	994.6	12.5
50°-60°	1744.1	21.9
60°-70°	2182.4	27.4
70°-80°	1275.3	16.0
80°-90°	227.5	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°	7951.0	100.0
0°-180°	7951.0	100.0

**Coefficient of Utilization**



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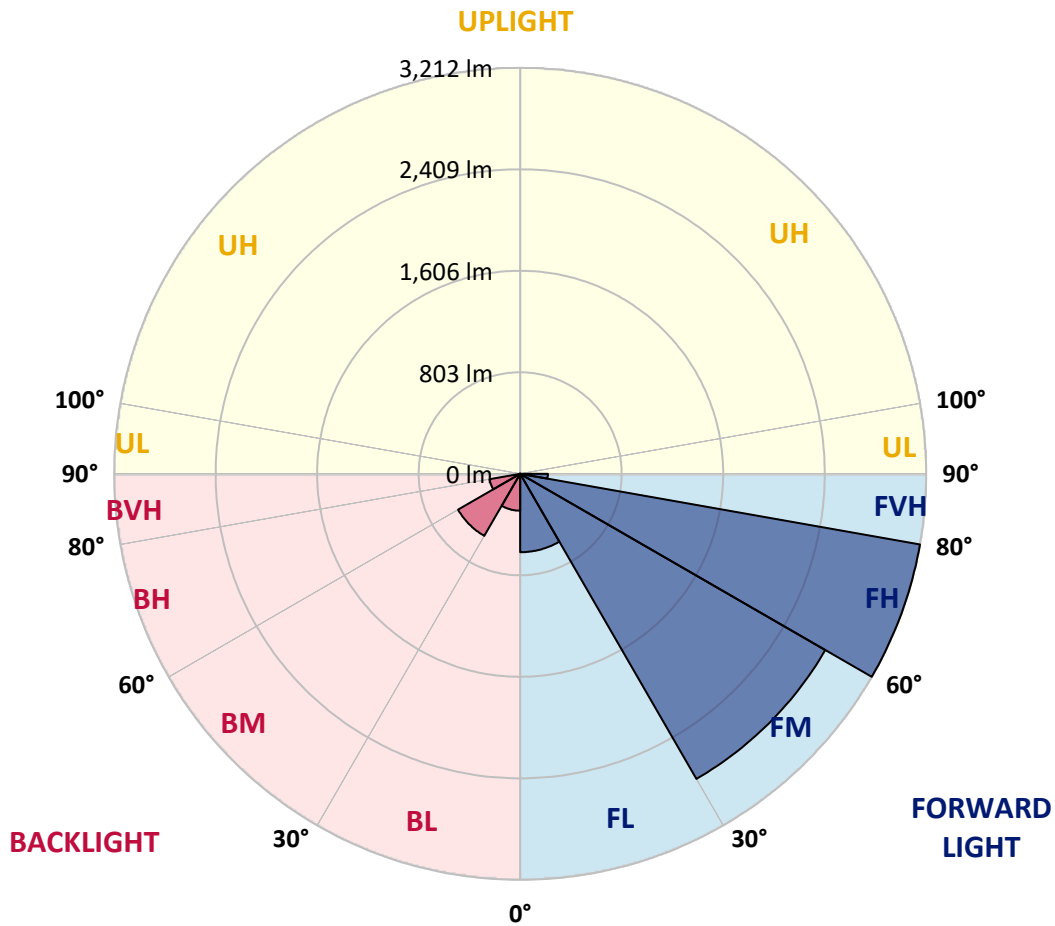
CATALOG NUMBER: GALN-SB2C-950-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.2	7.8			
FM (30°-60°)	2786.7	35.0			
FH (60°-80°)	3211.8	40.4			G2/5000
FVH (80°-90°)	218.8	2.8			G2/225
BL (0°-30°)	291.9	3.7	B1/500		
BM (30°-60°)	567.0	7.1	B1/1000		
BH (60°-80°)	245.9	3.1	B1/500		G1/500
BVH (80°-90°)	8.7	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°	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0
2.5°	1243.9	1222.6	1210.0	1178.7	1147.5	1122.3	1088.4	1065.9	1039.1	1013.3
5°	1386.3	1351.8	1310.2	1253.2	1201.2	1148.1	1096.6	1045.6	992.0	942.7
7.5°	1506.8	1457.0	1383.6	1308.0	1241.7	1177.6	1117.4	1050.0	984.8	907.6
10°	1598.9	1535.3	1438.9	1339.8	1263.6	1199.0	1140.4	1083.4	1017.7	924.6
12.5°	1654.7	1586.8	1472.3	1356.2	1269.1	1196.8	1151.4	1126.2	1100.4	1007.8
15°	1695.8	1622.4	1495.9	1367.7	1256.5	1167.8	1134.4	1159.6	1189.1	1130.0
17.5°	1738.5	1661.3	1526.6	1372.6	1222.6	1111.4	1097.1	1162.3	1230.8	1228.0
20°	1779.1	1702.4	1553.4	1369.4	1167.8	1042.9	1055.5	1138.8	1218.2	1251.6
22.5°	1825.6	1744.6	1579.1	1356.8	1096.6	978.8	1018.3	1101.5	1171.1	1210.5
25°	1882.6	1797.7	1615.3	1338.1	1019.9	925.7	980.5	1058.2	1114.7	1142.0
27.5°	1943.9	1861.2	1663.5	1328.3	958.0	887.9	937.7	1006.7	1057.1	1076.3
30°	2020.1	1935.2	1720.5	1317.3	917.5	866.0	893.4	947.0	996.3	1015.5
32.5°	2103.3	2017.3	1775.2	1291.0	892.8	849.5	850.1	884.1	929.0	952.0
35°	2207.4	2115.9	1833.8	1233.5	873.1	830.4	807.9	824.3	861.6	889.0
37.5°	2355.8	2245.2	1905.6	1151.4	844.1	800.8	763.6	767.4	795.9	826.0
40°	2560.7	2418.8	1989.9	1065.9	802.4	759.2	714.8	713.2	734.0	763.6
42.5°	2837.8	2648.3	2091.3	984.3	762.5	708.8	663.3	660.6	677.0	702.8
45°	3203.7	2941.9	2215.6	914.2	731.2	659.5	614.6	613.5	627.2	649.6
47.5°	3672.1	3350.0	2339.9	866.5	714.8	620.6	574.6	576.8	588.8	609.1
50°	4278.4	3881.8	2377.7	842.4	714.8	599.8	539.0	549.9	559.8	575.1
52.5°	5005.3	4392.3	2252.9	820.5	719.2	602.5	508.9	532.4	539.5	552.7
55°	5679.0	4642.7	1936.8	790.4	720.3	619.5	483.1	518.2	531.3	536.2
57.5°	6070.1	4556.7	1566.0	739.5	715.9	631.0	466.7	500.6	525.8	529.1
60°	5995.6	4254.9	1153.0	700.6	683.6	626.6	461.7	473.8	513.8	518.7
62.5°	5421.5	3748.7	800.2	670.4	612.4	607.4	460.1	431.6	487.5	499.5
65°	4357.8	2951.2	565.3	577.3	536.8	565.8	451.3	387.8	455.7	472.2
67.5°	3161.6	1997.1	408.1	467.8	486.4	498.4	431.6	356.0	419.6	441.5
70°	2028.8	1078.5	286.5	308.9	409.7	423.4	397.7	327.5	382.9	408.1
72.5°	1442.2	637.0	206.0	216.4	329.2	352.7	350.0	295.8	340.1	370.8
75°	995.2	351.1	139.1	154.5	238.8	286.5	270.0	254.2	288.1	319.3
77.5°	623.9	157.2	83.3	107.4	156.7	225.1	185.1	196.6	224.6	253.6
80°	347.3	60.8	46.6	71.2	85.4	163.8	102.4	126.5	165.4	186.2
82.5°	75.6	7.7	20.8	30.7	33.4	95.3	54.2	73.4	104.1	102.4
85°	0.0	0.0	3.8	4.4	2.2	41.1	19.7	24.1	34.0	31.8
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°
1101.0	0°	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0
990.3	2.5°	985.9	959.1	939.4	929.5	921.3	929.0	933.4	933.4	952.0	962.9
912.5	5°	893.4	845.2	808.5	783.8	769.0	774.0	779.4	785.5	809.0	824.9
866.5	7.5°	829.3	755.3	699.5	665.0	646.9	649.6	653.5	658.4	681.4	697.3
873.1	10°	817.2	711.0	632.1	586.6	564.7	560.9	558.7	557.1	570.7	582.8
947.6	12.5°	866.5	713.2	603.1	547.7	520.9	509.4	496.3	485.8	488.0	495.7
1060.4	15°	954.7	741.1	593.8	527.5	494.1	474.9	459.6	447.0	444.2	447.0
1159.0	17.5°	1055.5	778.9	592.7	509.9	468.3	448.6	436.0	424.5	420.7	421.2
1214.3	20°	1122.3	809.0	589.4	490.2	443.7	426.1	415.2	403.7	399.9	400.9
1199.0	22.5°	1128.9	824.9	584.4	468.3	419.0	404.2	393.3	382.9	382.3	382.3
1141.5	25°	1093.3	824.9	574.0	448.6	395.5	382.3	372.5	359.9	362.1	363.2
1076.3	27.5°	1038.0	805.2	554.3	432.7	375.2	361.5	351.6	340.1	342.9	344.5
1015.5	30°	983.2	780.0	530.8	414.6	356.0	340.1	333.0	323.2	324.3	326.5
955.3	32.5°	932.3	753.1	502.8	399.9	336.9	321.0	315.5	304.5	306.2	308.4
896.1	35°	881.9	723.6	470.0	382.3	319.3	303.4	299.1	286.5	287.6	290.9
836.9	37.5°	827.6	692.3	443.1	364.8	302.4	285.9	281.5	268.4	269.5	273.3
775.6	40°	770.7	661.7	416.8	346.2	284.3	267.8	264.0	249.8	250.9	255.2
715.3	42.5°	713.2	628.3	396.6	322.1	265.7	248.1	244.3	231.1	232.8	237.7
662.8	45°	660.0	588.3	383.4	295.2	248.1	228.4	224.6	212.5	215.8	221.3
618.4	47.5°	614.6	547.2	377.9	272.8	229.5	208.1	204.9	195.0	200.5	206.5
580.6	50°	575.7	507.8	370.8	249.8	212.0	190.6	187.3	180.8	187.9	193.9
554.9	52.5°	547.7	462.8	355.5	229.0	196.6	175.8	174.7	171.4	178.0	183.5
535.7	55°	523.6	416.3	330.8	210.9	182.9	163.2	164.3	162.7	168.2	172.5
524.2	57.5°	501.7	375.8	299.6	196.6	168.2	152.3	155.6	153.4	156.1	158.8
512.1	60°	475.4	334.7	262.4	180.8	150.6	141.3	145.2	139.1	138.6	139.7
490.2	62.5°	436.5	279.3	223.5	161.0	135.3	129.3	130.9	119.4	110.6	110.6
457.9	65°	382.3	224.6	187.3	139.1	117.8	112.8	111.7	95.3	83.3	82.2
422.9	67.5°	319.3	184.6	155.6	117.2	98.0	94.8	95.9	83.8	71.8	70.7
387.8	70°	260.2	152.8	125.4	93.7	75.6	78.9	83.8	71.8	60.3	58.6
346.7	72.5°	211.4	121.6	98.0	71.8	55.9	65.2	71.2	58.6	47.7	46.6
295.8	75°	163.2	89.3	70.1	48.7	40.5	50.4	55.9	42.7	34.0	32.3
229.0	77.5°	109.0	55.3	39.4	30.7	24.1	34.5	37.2	22.5	19.7	19.2
166.5	80°	66.3	25.7	17.0	14.8	8.2	12.6	14.8	9.3	10.4	11.0
88.7	82.5°	33.4	7.1	2.7	0.5	0.0	0.0	4.4	2.2	4.4	5.5
24.1	85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7
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°
1101.0	0°	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0
967.3	2.5°	998.0	1021.0	1042.9	1078.0	1114.1	1149.7	1185.9	1220.9	1233.5	1242.8
835.3	5°	883.0	926.2	976.6	1046.2	1120.7	1197.4	1275.1	1346.3	1378.7	1400.6
711.0	7.5°	764.1	820.5	892.8	997.4	1114.1	1236.3	1358.4	1470.7	1522.7	1564.9
593.8	10°	646.3	707.7	799.2	918.6	1076.3	1251.6	1420.3	1574.8	1642.1	1695.3
509.4	12.5°	542.8	600.3	696.2	828.2	1017.2	1239.5	1455.9	1641.6	1721.0	1780.7
449.1	15°	470.0	510.5	595.4	737.8	947.0	1200.6	1458.1	1673.3	1760.4	1822.9
424.0	17.5°	429.4	443.1	498.4	645.8	869.3	1149.7	1437.8	1684.3	1777.4	1835.5
401.5	20°	407.5	409.7	425.0	526.4	769.6	1102.1	1418.6	1695.3	1793.3	1842.1
385.6	22.5°	390.0	390.0	393.8	430.5	640.9	1045.1	1412.6	1714.4	1815.2	1845.3
367.5	25°	374.1	374.1	375.2	385.1	507.8	958.0	1408.8	1744.0	1845.3	1853.6
349.5	27.5°	357.7	358.2	358.2	363.7	409.2	839.7	1392.4	1782.3	1881.5	1864.5
331.9	30°	341.2	342.3	342.3	346.2	362.1	701.1	1360.0	1828.4	1928.6	1878.8
314.4	32.5°	324.8	325.9	325.9	329.2	340.7	559.8	1319.5	1870.5	1976.2	1884.8
297.4	35°	307.8	309.5	308.4	312.8	324.8	445.3	1268.0	1912.7	2027.7	1903.9
281.0	37.5°	290.9	291.9	291.4	295.8	309.5	384.5	1208.3	1944.5	2097.8	1946.7
263.5	40°	273.9	273.3	273.3	278.3	293.0	367.0	1133.3	1994.9	2198.6	2021.7
245.9	42.5°	256.3	256.3	255.2	260.7	278.8	353.8	1061.5	2085.2	2345.4	2141.1
229.5	45°	240.5	239.9	237.7	242.6	265.1	330.8	1036.3	2254.0	2562.3	2334.5
213.1	47.5°	225.1	224.6	219.1	223.5	248.7	310.0	1130.5	2530.0	2863.0	2618.7
199.9	50°	211.4	212.0	201.6	205.4	232.2	294.1	1334.8	2888.2	3262.3	3001.6
189.0	52.5°	198.8	198.8	185.1	187.3	212.0	279.9	1529.3	3276.6	3789.3	3535.7
177.5	55°	186.2	185.1	169.8	170.9	191.7	259.6	1558.3	3655.6	4507.9	4339.2
164.9	57.5°	172.0	169.8	155.6	155.6	173.1	244.8	1350.7	3947.0	5399.6	5520.1
141.3	60°	154.5	152.8	143.5	140.8	158.3	258.0	953.1	3981.0	5974.8	7090.5
112.3	62.5°	132.0	134.2	129.3	125.4	144.1	267.8	564.7	3707.7	5835.6	7590.0
87.1	65°	104.1	112.8	111.7	109.0	158.3	225.7	333.6	3182.9	5408.9	7186.9
76.1	67.5°	88.7	94.8	93.1	93.1	166.0	171.4	209.8	2486.7	4821.8	6708.7
63.5	70°	75.6	81.6	75.6	75.6	125.4	104.1	145.2	1736.3	4188.0	6179.6
50.9	72.5°	62.4	68.5	61.9	57.5	100.2	77.8	106.3	1085.1	3586.6	5628.6
36.2	75°	47.7	54.8	49.8	44.4	66.3	58.1	80.5	630.4	2971.5	4815.7
21.9	77.5°	30.1	39.4	37.2	31.2	48.7	42.2	58.1	375.2	2292.8	3763.0
13.1	80°	18.6	20.3	20.8	19.7	27.9	28.5	39.4	213.6	1569.3	2622.6
8.2	82.5°	12.1	12.1	9.3	10.4	13.7	16.4	22.5	80.5	922.4	1596.7
4.9	85°	8.8	7.7	4.9	4.9	6.6	8.2	8.8	24.6	374.1	630.4
2.2	87.5°	4.4	3.8	1.6	2.2	3.3	2.7	2.2	1.1	94.2	201.6
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°
1101.0	0°	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0	1101.0
1263.6	2.5°	1274.6	1291.6	1292.7	1292.7	1277.9	1277.3	1247.2	1243.9
1449.9	5°	1500.8	1511.8	1514.5	1509.0	1479.4	1457.5	1398.9	1386.3
1639.9	7.5°	1707.9	1729.8	1729.8	1716.6	1668.4	1623.5	1538.6	1506.8
1797.1	10°	1873.3	1898.5	1893.0	1866.2	1805.4	1743.5	1640.5	1598.9
1892.4	12.5°	1953.8	1979.5	1965.3	1934.6	1875.5	1810.3	1701.8	1654.7
1919.8	15°	1952.1	1945.0	1930.2	1926.4	1897.9	1848.6	1747.3	1695.8
1902.9	17.5°	1882.6	1822.3	1810.8	1849.2	1885.3	1873.3	1786.7	1738.5
1862.3	20°	1772.5	1667.3	1656.9	1730.3	1833.3	1885.9	1823.4	1779.1
1803.7	22.5°	1656.4	1543.0	1518.9	1600.0	1755.0	1889.7	1870.0	1825.6
1739.1	25°	1546.3	1432.3	1408.2	1483.8	1667.9	1883.1	1920.4	1882.6
1677.2	27.5°	1454.3	1344.2	1321.7	1397.3	1584.1	1864.5	1970.8	1943.9
1615.8	30°	1383.0	1281.2	1264.7	1337.6	1511.8	1841.5	2034.9	2020.1
1558.9	32.5°	1341.4	1266.9	1272.9	1332.7	1472.9	1816.3	2096.2	2103.3
1530.9	35°	1382.5	1385.8	1438.4	1463.0	1509.0	1812.5	2179.5	2207.4
1564.3	37.5°	1586.8	1700.7	1809.7	1789.5	1685.9	1856.8	2303.8	2355.8
1710.0	40°	1934.6	2168.5	2345.4	2268.2	2007.5	1992.7	2482.9	2560.7
1968.6	42.5°	2359.7	2756.2	3047.6	2840.6	2422.1	2230.4	2738.7	2837.8
2281.3	45°	2808.3	3480.9	3939.9	3509.4	2864.1	2563.4	3126.0	3203.7
2574.4	47.5°	3281.0	4361.7	4955.4	4251.0	3273.8	2942.5	3654.0	3672.1
2852.1	50°	3798.0	5327.3	5990.6	4992.1	3669.3	3376.8	4299.2	4278.4
3175.8	52.5°	4290.5	6320.4	7004.0	5736.5	4016.6	3915.8	5048.0	5005.3
3618.4	55°	4760.4	7312.9	8023.3	6451.8	4344.1	4627.9	5937.5	5679.0
4256.5	57.5°	5305.4	8205.2	9073.9	7170.5	4802.0	5552.4	6932.2	6070.1
5478.5	60°	6111.1	9219.0	10261.9	8155.3	5673.0	6524.1	7288.8	5995.6
6942.1	62.5°	7139.8	10151.3	11125.7	9120.4	6547.7	6707.1	6763.5	5421.5
6643.5	65°	7339.7	10387.4	11174.5	9378.4	6434.9	5689.4	5521.8	4357.8
5934.2	67.5°	6809.5	9960.7	10493.1	8898.0	5692.1	4396.7	4143.7	3161.6
5468.6	70°	6214.7	9147.3	9305.6	8081.4	5006.4	3233.9	2798.4	2028.8
5149.9	72.5°	5605.0	8062.2	7734.6	7018.2	4400.0	2354.7	2018.4	1442.2
4695.8	75°	4880.9	6635.3	6092.5	5831.2	3643.0	1848.1	1460.3	995.2
4039.0	77.5°	3908.7	4670.6	4525.4	4520.0	2737.6	1350.2	974.4	623.9
3155.5	80°	2757.3	3031.2	2957.3	3404.2	1836.6	979.4	586.6	347.3
2196.4	82.5°	1334.8	1676.1	1720.5	2027.2	893.4	576.2	135.3	75.6
858.9	85°	522.5	808.5	681.9	769.6	250.9	160.5	3.3	0.0
141.3	87.5°	58.6	93.7	86.0	67.9	30.7	6.6	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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