

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: P945786

Luminaire Tested: **GALN-SB1C-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945786
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-SB1C-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5469 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

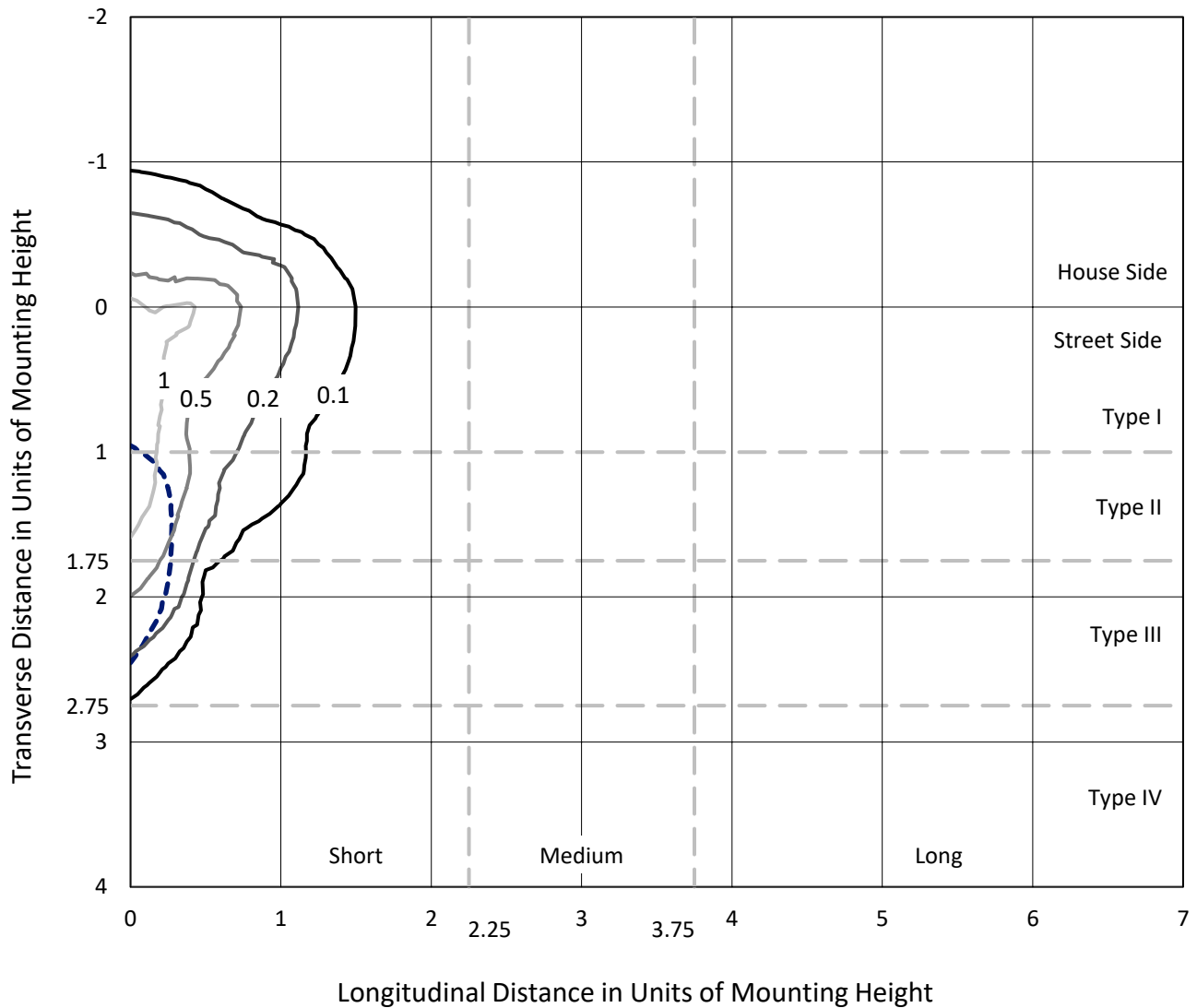
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

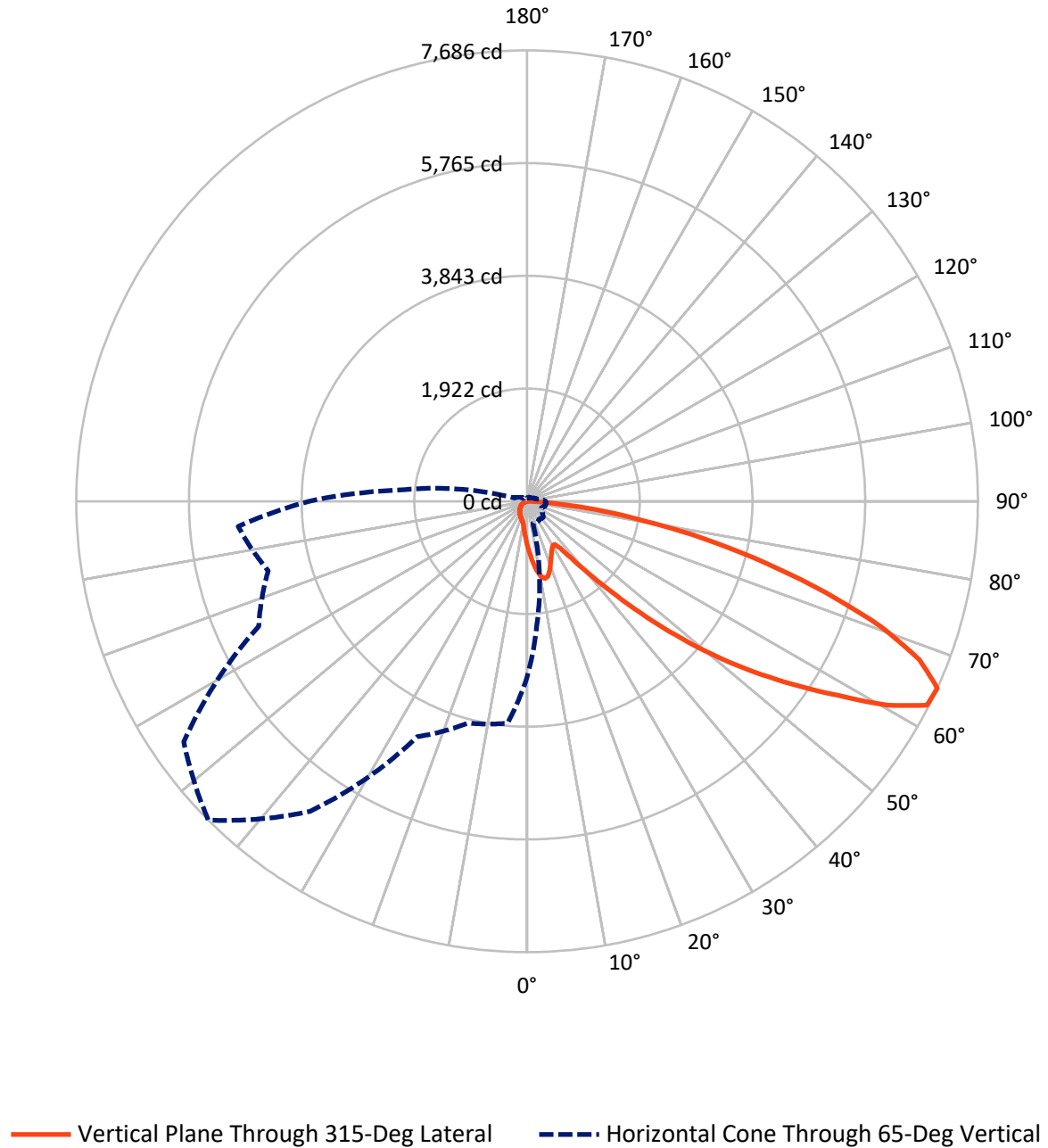
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	765.9	0.0	765.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4703.1	0.0	4703.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	5469.0	0.0	5469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.4
10°-20°	223.5	4.1
20°-30°	329.3	6.0
30°-40°	423.0	7.7
40°-50°	684.1	12.5
50°-60°	1199.7	21.9
60°-70°	1501.1	27.4
70°-80°	877.2	16.0
80°-90°	156.5	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°	5469.0	100.0
0°-180°	5469.0	100.0

Coefficient of Utilization



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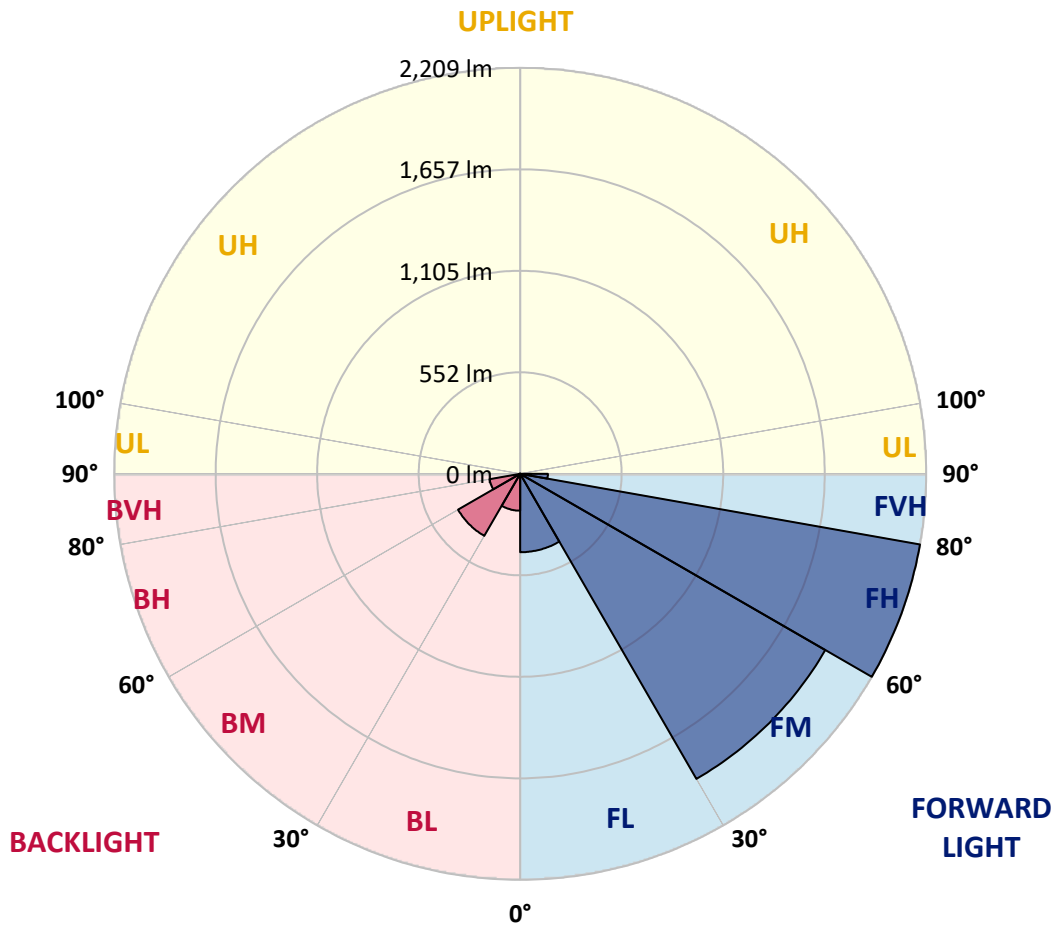
CATALOG NUMBER: GALN-SB1C-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	7.8			
FM (30°-60°)	1916.8	35.0			
FH (60°-80°)	2209.2	40.4			G2/5000
FVH (80°-90°)	150.5	2.8			G2/225
BL (0°-30°)	200.8	3.7	B1/500		
BM (30°-60°)	390.0	7.1	B1/1000		
BH (60°-80°)	169.1	3.1	B1/500		G1/500
BVH (80°-90°)	6.0	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
2.5°	855.6	840.9	832.3	810.8	789.3	772.0	748.6	733.2	714.7	697.0
5°	953.6	929.8	901.2	862.0	826.2	789.7	754.3	719.2	682.3	648.4
7.5°	1036.5	1002.2	951.7	899.7	854.1	810.0	768.6	722.2	677.4	624.3
10°	1099.8	1056.0	989.7	921.5	869.2	824.7	784.4	745.2	700.0	636.0
12.5°	1138.2	1091.5	1012.7	932.9	872.9	823.2	791.9	774.6	756.9	693.2
15°	1166.4	1116.0	1028.9	940.8	864.3	803.2	780.3	797.6	817.9	777.2
17.5°	1195.8	1142.7	1050.0	944.2	840.9	764.4	754.6	799.5	846.6	844.7
20°	1223.7	1171.0	1068.5	941.9	803.2	717.3	726.0	783.3	837.9	860.9
22.5°	1255.7	1200.0	1086.2	933.2	754.3	673.3	700.4	757.7	805.5	832.6
25°	1294.9	1236.5	1111.1	920.4	701.5	636.7	674.4	727.9	766.7	785.5
27.5°	1337.1	1280.2	1144.2	913.6	658.9	610.7	645.0	692.5	727.1	740.3
30°	1389.5	1331.1	1183.4	906.1	631.1	595.7	614.5	651.4	685.3	698.5
32.5°	1446.7	1387.6	1221.1	888.0	614.1	584.4	584.7	608.1	639.0	654.8
35°	1518.3	1455.4	1261.4	848.5	600.6	571.2	555.7	567.0	592.6	611.5
37.5°	1620.4	1544.3	1310.7	791.9	580.6	550.8	525.2	527.8	547.4	568.1
40°	1761.3	1663.8	1368.8	733.2	551.9	522.2	491.7	490.5	504.9	525.2
42.5°	1952.0	1821.6	1438.5	677.0	524.4	487.5	456.3	454.4	465.7	483.4
45°	2203.7	2023.6	1524.0	628.8	503.0	453.6	422.7	422.0	431.4	446.8
47.5°	2525.8	2304.2	1609.5	596.0	491.7	426.9	395.2	396.7	405.0	419.0
50°	2942.8	2670.1	1635.5	579.5	491.7	412.5	370.7	378.3	385.0	395.6
52.5°	3442.8	3021.2	1549.6	564.4	494.7	414.4	350.0	366.2	371.1	380.1
55°	3906.2	3193.4	1332.2	543.7	495.4	426.1	332.3	356.4	365.5	368.8
57.5°	4175.2	3134.2	1077.1	508.6	492.4	434.0	321.0	344.4	361.7	363.9
60°	4124.0	2926.6	793.1	481.9	470.2	431.0	317.6	325.9	353.4	356.8
62.5°	3729.1	2578.5	550.4	461.2	421.2	417.8	316.5	296.9	335.3	343.6
65°	2997.5	2030.0	388.8	397.1	369.2	389.2	310.4	266.7	313.5	324.8
67.5°	2174.6	1373.7	280.7	321.8	334.6	342.8	296.9	244.9	288.6	303.7
70°	1395.5	741.8	197.0	212.5	281.8	291.2	273.5	225.3	263.4	280.7
72.5°	992.0	438.2	141.7	148.8	226.4	242.6	240.7	203.4	234.0	255.1
75°	684.6	241.5	95.7	106.2	164.3	197.0	185.7	174.8	198.2	219.6
77.5°	429.1	108.1	57.3	73.8	107.8	154.8	127.3	135.3	154.5	174.4
80°	238.9	41.8	32.0	49.0	58.8	112.7	70.5	87.0	113.8	128.1
82.5°	52.0	5.3	14.3	21.1	23.0	65.6	37.3	50.5	71.6	70.5
85°	0.0	0.0	2.6	3.0	1.5	28.3	13.6	16.6	23.4	21.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°
757.3	0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
681.2	2.5°	678.2	659.7	646.1	639.4	633.7	639.0	642.0	642.0	654.8	662.3
627.7	5°	614.5	581.3	556.1	539.1	529.0	532.4	536.1	540.3	556.5	567.4
596.0	7.5°	570.4	519.5	481.1	457.4	444.9	446.8	449.5	452.9	468.7	479.6
600.6	10°	562.1	489.0	434.8	403.5	388.4	385.8	384.3	383.2	392.6	400.9
651.8	12.5°	596.0	490.5	414.8	376.8	358.3	350.4	341.3	334.2	335.7	341.0
729.4	15°	656.7	509.8	408.4	362.8	339.8	326.6	316.1	307.4	305.5	307.4
797.2	17.5°	726.0	535.7	407.7	350.8	322.1	308.6	299.9	292.0	289.3	289.7
835.3	20°	772.0	556.5	405.4	337.2	305.2	293.1	285.6	277.7	275.0	275.8
824.7	22.5°	776.5	567.4	402.0	322.1	288.2	278.0	270.5	263.4	263.0	263.0
785.2	25°	752.0	567.4	394.8	308.6	272.0	263.0	256.2	247.5	249.0	249.8
740.3	27.5°	714.0	553.8	381.3	297.6	258.1	248.7	241.9	234.0	235.8	237.0
698.5	30°	676.3	536.5	365.1	285.2	244.9	234.0	229.1	222.3	223.0	224.5
657.1	32.5°	641.2	518.0	345.9	275.0	231.7	220.8	217.0	209.5	210.6	212.1
616.4	35°	606.6	497.7	323.3	263.0	219.6	208.7	205.7	197.0	197.8	200.1
575.7	37.5°	569.3	476.2	304.8	250.9	208.0	196.7	193.7	184.6	185.4	188.0
533.5	40°	530.1	455.1	286.7	238.1	195.5	184.2	181.6	171.8	172.6	175.6
492.0	42.5°	490.5	432.1	272.8	221.5	182.7	170.7	168.0	159.0	160.1	163.5
455.9	45°	454.0	404.6	263.7	203.1	170.7	157.1	154.5	146.2	148.4	152.2
425.4	47.5°	422.7	376.4	260.0	187.6	157.9	143.2	140.9	134.1	137.9	142.0
399.4	50°	396.0	349.3	255.1	171.8	145.8	131.1	128.9	124.3	129.2	133.4
381.7	52.5°	376.8	318.4	244.5	157.5	135.3	120.9	120.2	117.9	122.4	126.2
368.5	55°	360.2	286.3	227.6	145.1	125.8	112.3	113.0	111.9	115.7	118.7
360.6	57.5°	345.1	258.5	206.1	135.3	115.7	104.7	107.0	105.5	107.4	109.3
352.3	60°	327.0	230.2	180.5	124.3	103.6	97.2	99.8	95.7	95.3	96.1
337.2	62.5°	300.3	192.1	153.7	110.8	93.1	88.9	90.0	82.1	76.1	76.1
315.0	65°	263.0	154.5	128.9	95.7	81.0	77.6	76.9	65.6	57.3	56.5
290.9	67.5°	219.6	127.0	107.0	80.6	67.4	65.2	65.9	57.6	49.4	48.6
266.7	70°	179.0	105.1	86.3	64.4	52.0	54.3	57.6	49.4	41.4	40.3
238.5	72.5°	145.4	83.6	67.4	49.4	38.4	44.8	49.0	40.3	32.8	32.0
203.4	75°	112.3	61.4	48.2	33.5	27.9	34.7	38.4	29.4	23.4	22.2
157.5	77.5°	75.0	38.1	27.1	21.1	16.6	23.7	25.6	15.4	13.6	13.2
114.5	80°	45.6	17.7	11.7	10.2	5.7	8.7	10.2	6.4	7.2	7.5
61.0	82.5°	23.0	4.9	1.9	0.4	0.0	0.0	3.0	1.5	3.0	3.8
16.6	85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9
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°
757.3	0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
665.4	2.5°	686.5	702.3	717.3	741.5	766.3	790.8	815.7	839.8	848.5	854.9
574.6	5°	607.3	637.1	671.8	719.6	770.8	823.6	877.1	926.1	948.3	963.4
489.0	7.5°	525.6	564.4	614.1	686.1	766.3	850.3	934.4	1011.6	1047.4	1076.4
408.4	10°	444.6	486.8	549.7	631.8	740.3	860.9	976.9	1083.2	1129.5	1166.1
350.4	12.5°	373.4	412.9	478.9	569.7	699.6	852.6	1001.4	1129.1	1183.8	1224.8
308.9	15°	323.3	351.1	409.5	507.5	651.4	825.9	1002.9	1151.0	1210.9	1253.8
291.6	17.5°	295.4	304.8	342.8	444.2	597.9	790.8	989.0	1158.5	1222.6	1262.5
276.2	20°	280.3	281.8	292.4	362.1	529.3	758.0	975.8	1166.1	1233.5	1267.0
265.2	22.5°	268.3	268.3	270.9	296.1	440.8	718.9	971.7	1179.2	1248.6	1269.3
252.8	25°	257.3	257.3	258.1	264.9	349.3	658.9	969.0	1199.6	1269.3	1274.9
240.4	27.5°	246.0	246.4	246.4	250.2	281.4	577.6	957.7	1226.0	1294.2	1282.5
228.3	30°	234.7	235.5	235.5	238.1	249.0	482.2	935.5	1257.6	1326.6	1292.3
216.3	32.5°	223.4	224.2	224.2	226.4	234.3	385.0	907.6	1286.6	1359.3	1296.4
204.6	35°	211.7	212.9	212.1	215.1	223.4	306.3	872.2	1315.6	1394.8	1309.6
193.3	37.5°	200.1	200.8	200.4	203.4	212.9	264.5	831.1	1337.5	1443.0	1339.0
181.2	40°	188.4	188.0	188.0	191.4	201.6	252.4	779.5	1372.1	1512.3	1390.6
169.2	42.5°	176.3	176.3	175.6	179.3	191.8	243.4	730.2	1434.3	1613.3	1472.7
157.9	45°	165.4	165.0	163.5	166.9	182.4	227.6	712.8	1550.4	1762.5	1605.7
146.6	47.5°	154.8	154.5	150.7	153.7	171.0	213.2	777.6	1740.2	1969.3	1801.3
137.5	50°	145.4	145.8	138.6	141.3	159.7	202.3	918.2	1986.6	2244.0	2064.6
130.0	52.5°	136.8	136.8	127.3	128.9	145.8	192.5	1051.9	2253.8	2606.4	2432.0
122.1	55°	128.1	127.3	116.8	117.5	131.9	178.6	1071.9	2514.5	3100.7	2984.7
113.4	57.5°	118.3	116.8	107.0	107.0	119.1	168.4	929.1	2714.9	3714.1	3797.0
97.2	60°	106.2	105.1	98.7	96.8	108.9	177.5	655.6	2738.3	4109.7	4877.1
77.2	62.5°	90.8	92.3	88.9	86.3	99.1	184.2	388.4	2550.3	4014.0	5220.7
59.9	65°	71.6	77.6	76.9	75.0	108.9	155.2	229.4	2189.3	3720.5	4943.4
52.4	67.5°	61.0	65.2	64.0	64.0	114.2	117.9	144.3	1710.5	3316.6	4614.5
43.7	70°	52.0	56.1	52.0	52.0	86.3	71.6	99.8	1194.3	2880.7	4250.6
35.0	72.5°	43.0	47.1	42.6	39.6	68.9	53.5	73.1	746.4	2467.0	3871.6
24.9	75°	32.8	37.7	34.3	30.5	45.6	39.9	55.4	433.6	2043.9	3312.4
15.1	77.5°	20.7	27.1	25.6	21.5	33.5	29.0	39.9	258.1	1577.1	2588.3
9.0	80°	12.8	13.9	14.3	13.6	19.2	19.6	27.1	146.9	1079.4	1803.9
5.7	82.5°	8.3	8.3	6.4	7.2	9.4	11.3	15.4	55.4	634.5	1098.2
3.4	85°	6.0	5.3	3.4	3.4	4.5	5.7	6.0	17.0	257.3	433.6
1.5	87.5°	3.0	2.6	1.1	1.5	2.3	1.9	1.5	0.8	64.8	138.6
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°
757.3	0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
869.2	2.5°	876.7	888.4	889.1	889.1	879.0	878.6	857.9	855.6
997.3	5°	1032.3	1039.8	1041.7	1038.0	1017.6	1002.6	962.2	953.6
1128.0	7.5°	1174.7	1189.8	1189.8	1180.8	1147.6	1116.7	1058.3	1036.5
1236.1	10°	1288.5	1305.8	1302.1	1283.6	1241.8	1199.2	1128.4	1099.8
1301.7	12.5°	1343.9	1361.6	1351.8	1330.7	1290.0	1245.2	1170.6	1138.2
1320.5	15°	1342.8	1337.9	1327.7	1325.1	1305.5	1271.6	1201.9	1166.4
1308.9	17.5°	1294.9	1253.5	1245.6	1271.9	1296.8	1288.5	1229.0	1195.8
1281.0	20°	1219.2	1146.8	1139.7	1190.2	1261.0	1297.2	1254.2	1223.7
1240.7	22.5°	1139.3	1061.3	1044.7	1100.5	1207.1	1299.8	1286.2	1255.7
1196.2	25°	1063.6	985.2	968.6	1020.6	1147.2	1295.3	1320.9	1294.9
1153.6	27.5°	1000.3	924.6	909.1	961.1	1089.6	1282.5	1355.6	1337.1
1111.4	30°	951.3	881.2	869.9	920.0	1039.8	1266.7	1399.7	1389.5
1072.3	32.5°	922.7	871.4	875.6	916.6	1013.1	1249.3	1441.8	1446.7
1053.0	35°	950.9	953.2	989.4	1006.3	1038.0	1246.7	1499.1	1518.3
1076.0	37.5°	1091.5	1169.8	1244.8	1230.9	1159.7	1277.2	1584.6	1620.4
1176.2	40°	1330.7	1491.6	1613.3	1560.2	1380.8	1370.6	1707.8	1761.3
1354.1	42.5°	1623.1	1895.8	2096.3	1953.9	1666.0	1534.2	1883.8	1952.0
1569.2	45°	1931.6	2394.3	2710.0	2413.9	1970.1	1763.2	2150.2	2203.7
1770.8	47.5°	2256.8	3000.1	3408.5	2924.0	2251.9	2023.9	2513.3	2525.8
1961.8	50°	2612.4	3664.3	4120.6	3433.8	2523.9	2322.7	2957.2	2942.8
2184.4	52.5°	2951.1	4347.4	4817.6	3945.8	2762.8	2693.4	3472.2	3442.8
2488.9	55°	3274.4	5030.1	5518.7	4437.8	2988.1	3183.2	4084.0	3906.2
2927.8	57.5°	3649.3	5643.8	6241.4	4932.1	3303.0	3819.2	4768.2	4175.2
3768.3	60°	4203.5	6341.2	7058.5	5609.5	3902.1	4487.6	5013.5	4124.0
4775.0	62.5°	4911.0	6982.4	7652.7	6273.4	4503.8	4613.4	4652.2	3729.1
4569.7	65°	5048.5	7144.8	7686.2	6450.8	4426.1	3913.4	3798.1	2997.5
4081.8	67.5°	4683.8	6851.3	7217.5	6120.4	3915.3	3024.2	2850.2	2174.6
3761.5	70°	4274.7	6291.8	6400.7	5558.7	3443.6	2224.4	1924.9	1395.5
3542.3	72.5°	3855.4	5545.5	5320.2	4827.4	3026.5	1619.7	1388.3	992.0
3229.9	75°	3357.3	4564.0	4190.7	4011.0	2505.8	1271.2	1004.4	684.6
2778.2	77.5°	2688.5	3212.6	3112.8	3109.0	1883.0	928.7	670.3	429.1
2170.5	80°	1896.6	2085.0	2034.1	2341.5	1263.3	673.6	403.5	238.9
1510.8	82.5°	918.2	1152.9	1183.4	1394.4	614.5	396.3	93.1	52.0
590.8	85°	359.4	556.1	469.1	529.3	172.6	110.4	2.3	0.0
97.2	87.5°	40.3	64.4	59.2	46.7	21.1	4.5	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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