

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: P945763

Luminaire Tested: **GALN-SB1C-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945763
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-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT 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

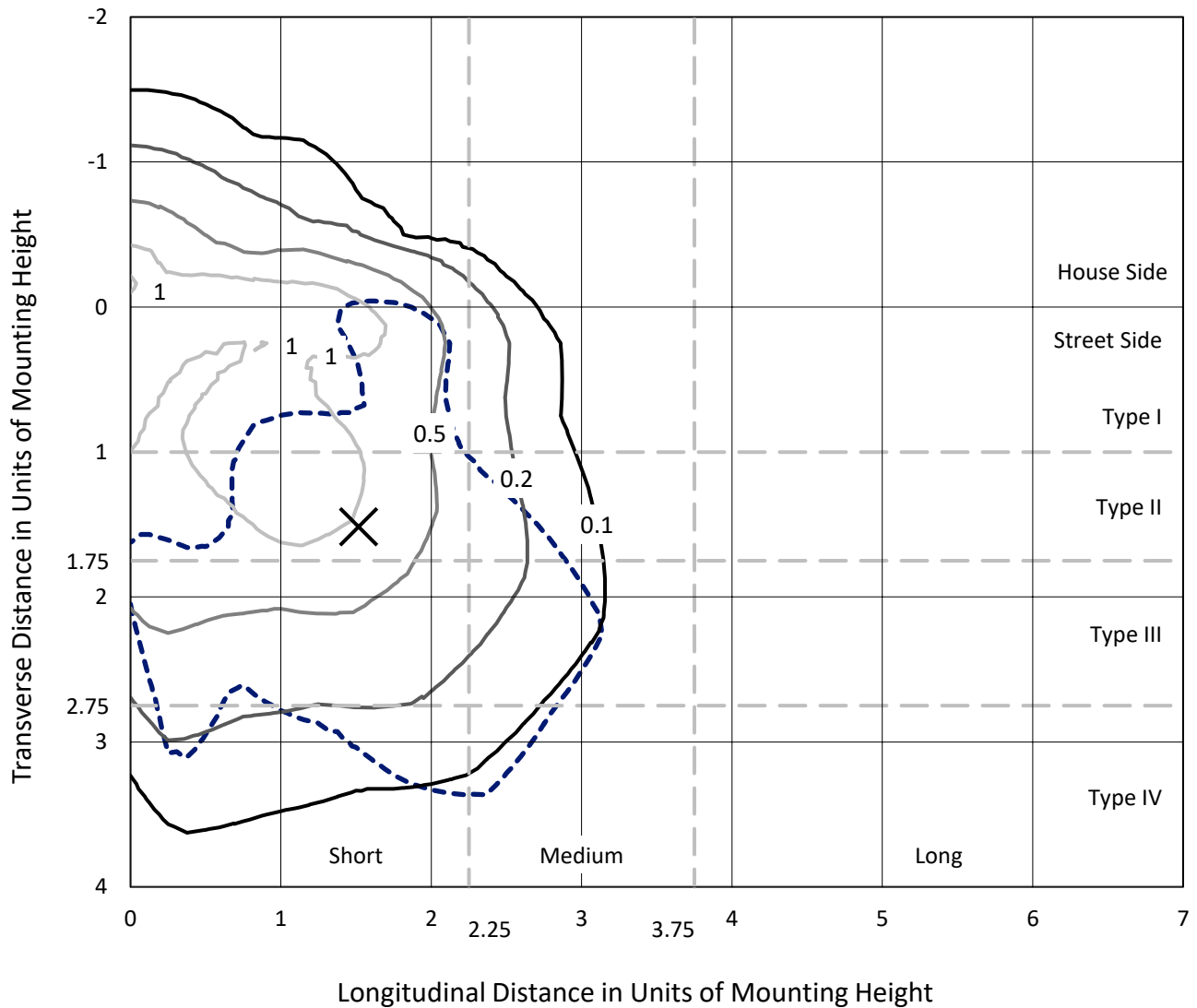
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

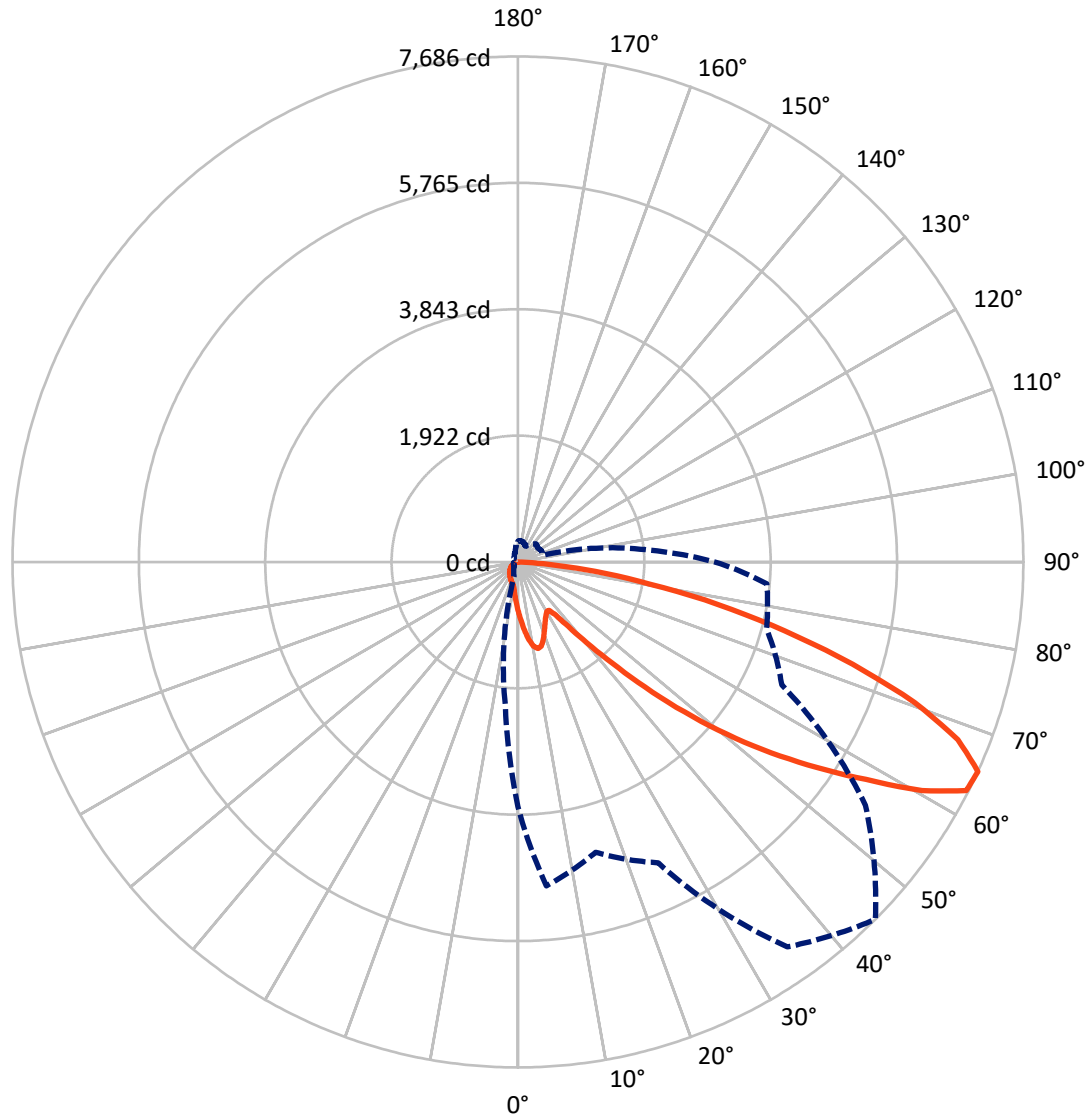
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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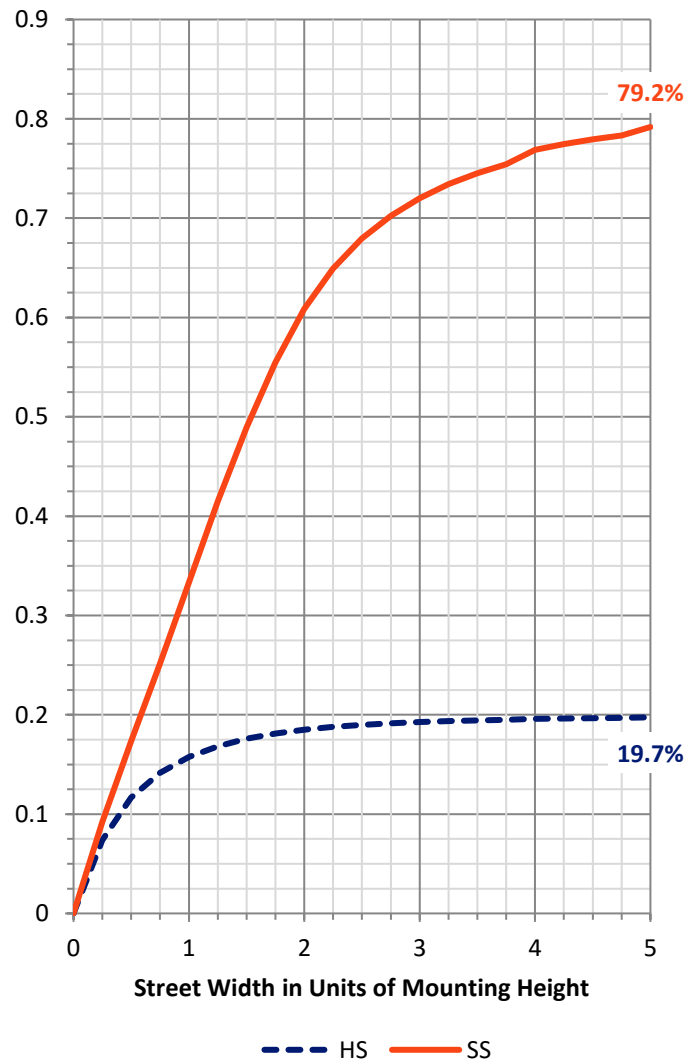
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.1	0.0	1087.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4381.9	0.0	4381.9
	% Fixture	80.1	0.0	80.1
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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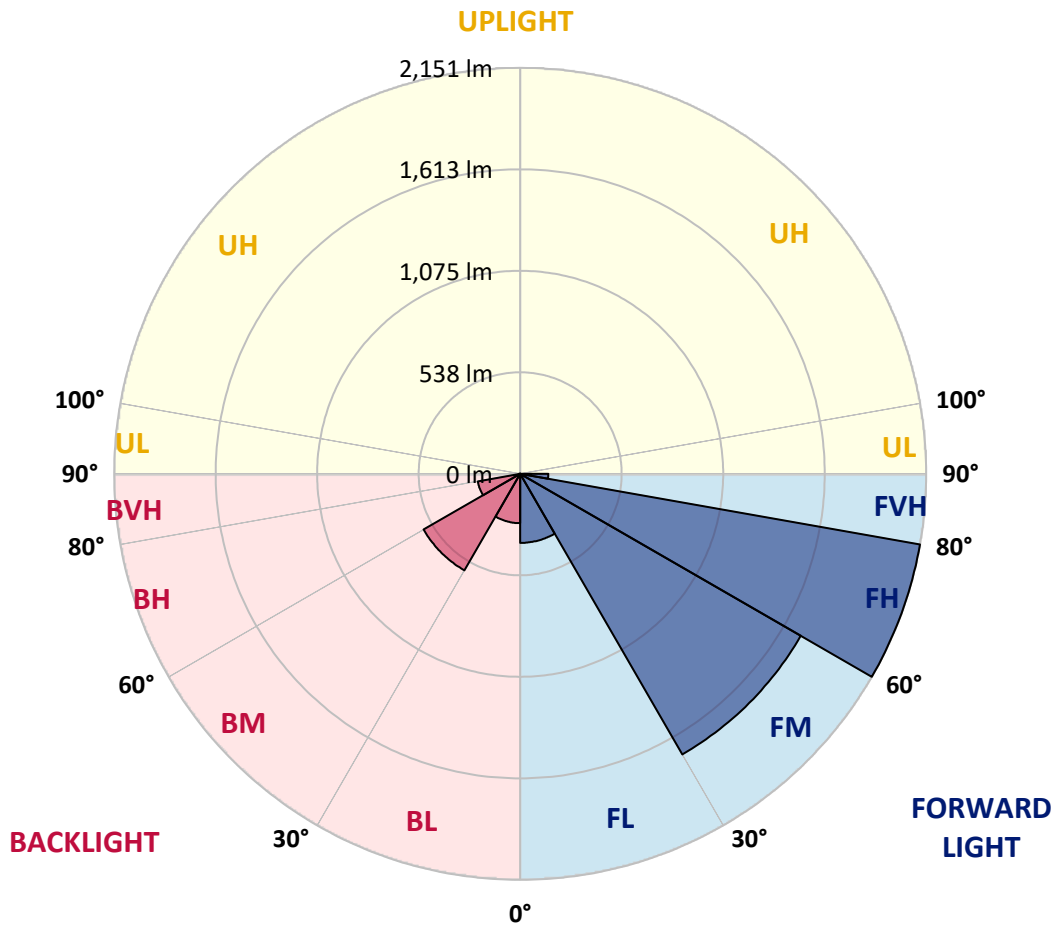
CATALOG NUMBER: GALN-SB1C-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.9	6.7			
FM (30°-60°)	1716.2	31.4			
FH (60°-80°)	2150.6	39.3			G2/5000
FVH (80°-90°)	149.2	2.7			G2/225
BL (0°-30°)	261.4	4.8	B1/500		
BM (30°-60°)	590.6	10.8	B1/1000		
BH (60°-80°)	227.8	4.2	B1/500		G1/500
BVH (80°-90°)	7.3	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°	848.5	854.9	869.2	876.7	888.4	889.1	889.1	879.0	878.6	857.9
5°	948.3	963.4	997.3	1032.3	1039.8	1041.7	1038.0	1017.6	1002.6	962.2
7.5°	1047.4	1076.4	1128.0	1174.7	1189.8	1189.8	1180.8	1147.6	1116.7	1058.3
10°	1129.5	1166.1	1236.1	1288.5	1305.8	1302.1	1283.6	1241.8	1199.2	1128.4
12.5°	1183.8	1224.8	1301.7	1343.9	1361.6	1351.8	1330.7	1290.0	1245.2	1170.6
15°	1210.9	1253.8	1320.5	1342.8	1337.9	1327.7	1325.1	1305.5	1271.6	1201.9
17.5°	1222.6	1262.5	1308.9	1294.9	1253.5	1245.6	1271.9	1296.8	1288.5	1229.0
20°	1233.5	1267.0	1281.0	1219.2	1146.8	1139.7	1190.2	1261.0	1297.2	1254.2
22.5°	1248.6	1269.3	1240.7	1139.3	1061.3	1044.7	1100.5	1207.1	1299.8	1286.2
25°	1269.3	1274.9	1196.2	1063.6	985.2	968.6	1020.6	1147.2	1295.3	1320.9
27.5°	1294.2	1282.5	1153.6	1000.3	924.6	909.1	961.1	1089.6	1282.5	1355.6
30°	1326.6	1292.3	1111.4	951.3	881.2	869.9	920.0	1039.8	1266.7	1399.7
32.5°	1359.3	1296.4	1072.3	922.7	871.4	875.6	916.6	1013.1	1249.3	1441.8
35°	1394.8	1309.6	1053.0	950.9	953.2	989.4	1006.3	1038.0	1246.7	1499.1
37.5°	1443.0	1339.0	1076.0	1091.5	1169.8	1244.8	1230.9	1159.7	1277.2	1584.6
40°	1512.3	1390.6	1176.2	1330.7	1491.6	1613.3	1560.2	1380.8	1370.6	1707.8
42.5°	1613.3	1472.7	1354.1	1623.1	1895.8	2096.3	1953.9	1666.0	1534.2	1883.8
45°	1762.5	1605.7	1569.2	1931.6	2394.3	2710.0	2413.9	1970.1	1763.2	2150.2
47.5°	1969.3	1801.3	1770.8	2256.8	3000.1	3408.5	2924.0	2251.9	2023.9	2513.3
50°	2244.0	2064.6	1961.8	2612.4	3664.3	4120.6	3433.8	2523.9	2322.7	2957.2
52.5°	2606.4	2432.0	2184.4	2951.1	4347.4	4817.6	3945.8	2762.8	2693.4	3472.2
55°	3100.7	2984.7	2488.9	3274.4	5030.1	5518.7	4437.8	2988.1	3183.2	4084.0
57.5°	3714.1	3797.0	2927.8	3649.3	5643.8	6241.4	4932.1	3303.0	3819.2	4768.2
60°	4109.7	4877.1	3768.3	4203.5	6341.2	7058.5	5609.5	3902.1	4487.6	5013.5
62.5°	4014.0	5220.7	4775.0	4911.0	6982.4	7652.7	6273.4	4503.8	4613.4	4652.2
65°	3720.5	4943.4	4569.7	5048.5	7144.8	7686.2	6450.8	4426.1	3913.4	3798.1
67.5°	3316.6	4614.5	4081.8	4683.8	6851.3	7217.5	6120.4	3915.3	3024.2	2850.2
70°	2880.7	4250.6	3761.5	4274.7	6291.8	6400.7	5558.7	3443.6	2224.4	1924.9
72.5°	2467.0	3871.6	3542.3	3855.4	5545.5	5320.2	4827.4	3026.5	1619.7	1388.3
75°	2043.9	3312.4	3229.9	3357.3	4564.0	4190.7	4011.0	2505.8	1271.2	1004.4
77.5°	1577.1	2588.3	2778.2	2688.5	3212.6	3112.8	3109.0	1883.0	928.7	670.3
80°	1079.4	1803.9	2170.5	1896.6	2085.0	2034.1	2341.5	1263.3	673.6	403.5
82.5°	634.5	1098.2	1510.8	918.2	1152.9	1183.4	1394.4	614.5	396.3	93.1
85°	257.3	433.6	590.8	359.4	556.1	469.1	529.3	172.6	110.4	2.3
87.5°	64.8	138.6	97.2	40.3	64.4	59.2	46.7	21.1	4.5	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°
757.3	0°	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3	757.3
855.6	2.5°	840.9	832.3	810.8	789.3	772.0	748.6	733.2	714.7	697.0	681.2
953.6	5°	929.8	901.2	862.0	826.2	789.7	754.3	719.2	682.3	648.4	627.7
1036.5	7.5°	1002.2	951.7	899.7	854.1	810.0	768.6	722.2	677.4	624.3	596.0
1099.8	10°	1056.0	989.7	921.5	869.2	824.7	784.4	745.2	700.0	636.0	600.6
1138.2	12.5°	1091.5	1012.7	932.9	872.9	823.2	791.9	774.6	756.9	693.2	651.8
1166.4	15°	1116.0	1028.9	940.8	864.3	803.2	780.3	797.6	817.9	777.2	729.4
1195.8	17.5°	1142.7	1050.0	944.2	840.9	764.4	754.6	799.5	846.6	844.7	797.2
1223.7	20°	1171.0	1068.5	941.9	803.2	717.3	726.0	783.3	837.9	860.9	835.3
1255.7	22.5°	1200.0	1086.2	933.2	754.3	673.3	700.4	757.7	805.5	832.6	824.7
1294.9	25°	1236.5	1111.1	920.4	701.5	636.7	674.4	727.9	766.7	785.5	785.2
1337.1	27.5°	1280.2	1144.2	913.6	658.9	610.7	645.0	692.5	727.1	740.3	740.3
1389.5	30°	1331.1	1183.4	906.1	631.1	595.7	614.5	651.4	685.3	698.5	698.5
1446.7	32.5°	1387.6	1221.1	888.0	614.1	584.4	584.7	608.1	639.0	654.8	657.1
1518.3	35°	1455.4	1261.4	848.5	600.6	571.2	555.7	567.0	592.6	611.5	616.4
1620.4	37.5°	1544.3	1310.7	791.9	580.6	550.8	525.2	527.8	547.4	568.1	575.7
1761.3	40°	1663.8	1368.8	733.2	551.9	522.2	491.7	490.5	504.9	525.2	533.5
1952.0	42.5°	1821.6	1438.5	677.0	524.4	487.5	456.3	454.4	465.7	483.4	492.0
2203.7	45°	2023.6	1524.0	628.8	503.0	453.6	422.7	422.0	431.4	446.8	455.9
2525.8	47.5°	2304.2	1609.5	596.0	491.7	426.9	395.2	396.7	405.0	419.0	425.4
2942.8	50°	2670.1	1635.5	579.5	491.7	412.5	370.7	378.3	385.0	395.6	399.4
3442.8	52.5°	3021.2	1549.6	564.4	494.7	414.4	350.0	366.2	371.1	380.1	381.7
3906.2	55°	3193.4	1332.2	543.7	495.4	426.1	332.3	356.4	365.5	368.8	368.5
4175.2	57.5°	3134.2	1077.1	508.6	492.4	434.0	321.0	344.4	361.7	363.9	360.6
4124.0	60°	2926.6	793.1	481.9	470.2	431.0	317.6	325.9	353.4	356.8	352.3
3729.1	62.5°	2578.5	550.4	461.2	421.2	417.8	316.5	296.9	335.3	343.6	337.2
2997.5	65°	2030.0	388.8	397.1	369.2	389.2	310.4	266.7	313.5	324.8	315.0
2174.6	67.5°	1373.7	280.7	321.8	334.6	342.8	296.9	244.9	288.6	303.7	290.9
1395.5	70°	741.8	197.0	212.5	281.8	291.2	273.5	225.3	263.4	280.7	266.7
992.0	72.5°	438.2	141.7	148.8	226.4	242.6	240.7	203.4	234.0	255.1	238.5
684.6	75°	241.5	95.7	106.2	164.3	197.0	185.7	174.8	198.2	219.6	203.4
429.1	77.5°	108.1	57.3	73.8	107.8	154.8	127.3	135.3	154.5	174.4	157.5
238.9	80°	41.8	32.0	49.0	58.8	112.7	70.5	87.0	113.8	128.1	114.5
52.0	82.5°	5.3	14.3	21.1	23.0	65.6	37.3	50.5	71.6	70.5	61.0
0.0	85°	0.0	2.6	3.0	1.5	28.3	13.6	16.6	23.4	21.9	16.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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
678.2	2.5°	659.7	646.1	639.4	633.7	639.0	642.0	642.0	654.8	662.3	665.4
614.5	5°	581.3	556.1	539.1	529.0	532.4	536.1	540.3	556.5	567.4	574.6
570.4	7.5°	519.5	481.1	457.4	444.9	446.8	449.5	452.9	468.7	479.6	489.0
562.1	10°	489.0	434.8	403.5	388.4	385.8	384.3	383.2	392.6	400.9	408.4
596.0	12.5°	490.5	414.8	376.8	358.3	350.4	341.3	334.2	335.7	341.0	350.4
656.7	15°	509.8	408.4	362.8	339.8	326.6	316.1	307.4	305.5	307.4	308.9
726.0	17.5°	535.7	407.7	350.8	322.1	308.6	299.9	292.0	289.3	289.7	291.6
772.0	20°	556.5	405.4	337.2	305.2	293.1	285.6	277.7	275.0	275.8	276.2
776.5	22.5°	567.4	402.0	322.1	288.2	278.0	270.5	263.4	263.0	263.0	265.2
752.0	25°	567.4	394.8	308.6	272.0	263.0	256.2	247.5	249.0	249.8	252.8
714.0	27.5°	553.8	381.3	297.6	258.1	248.7	241.9	234.0	235.8	237.0	240.4
676.3	30°	536.5	365.1	285.2	244.9	234.0	229.1	222.3	223.0	224.5	228.3
641.2	32.5°	518.0	345.9	275.0	231.7	220.8	217.0	209.5	210.6	212.1	216.3
606.6	35°	497.7	323.3	263.0	219.6	208.7	205.7	197.0	197.8	200.1	204.6
569.3	37.5°	476.2	304.8	250.9	208.0	196.7	193.7	184.6	185.4	188.0	193.3
530.1	40°	455.1	286.7	238.1	195.5	184.2	181.6	171.8	172.6	175.6	181.2
490.5	42.5°	432.1	272.8	221.5	182.7	170.7	168.0	159.0	160.1	163.5	169.2
454.0	45°	404.6	263.7	203.1	170.7	157.1	154.5	146.2	148.4	152.2	157.9
422.7	47.5°	376.4	260.0	187.6	157.9	143.2	140.9	134.1	137.9	142.0	146.6
396.0	50°	349.3	255.1	171.8	145.8	131.1	128.9	124.3	129.2	133.4	137.5
376.8	52.5°	318.4	244.5	157.5	135.3	120.9	120.2	117.9	122.4	126.2	130.0
360.2	55°	286.3	227.6	145.1	125.8	112.3	113.0	111.9	115.7	118.7	122.1
345.1	57.5°	258.5	206.1	135.3	115.7	104.7	107.0	105.5	107.4	109.3	113.4
327.0	60°	230.2	180.5	124.3	103.6	97.2	99.8	95.7	95.3	96.1	97.2
300.3	62.5°	192.1	153.7	110.8	93.1	88.9	90.0	82.1	76.1	76.1	77.2
263.0	65°	154.5	128.9	95.7	81.0	77.6	76.9	65.6	57.3	56.5	59.9
219.6	67.5°	127.0	107.0	80.6	67.4	65.2	65.9	57.6	49.4	48.6	52.4
179.0	70°	105.1	86.3	64.4	52.0	54.3	57.6	49.4	41.4	40.3	43.7
145.4	72.5°	83.6	67.4	49.4	38.4	44.8	49.0	40.3	32.8	32.0	35.0
112.3	75°	61.4	48.2	33.5	27.9	34.7	38.4	29.4	23.4	22.2	24.9
75.0	77.5°	38.1	27.1	21.1	16.6	23.7	25.6	15.4	13.6	13.2	15.1
45.6	80°	17.7	11.7	10.2	5.7	8.7	10.2	6.4	7.2	7.5	9.0
23.0	82.5°	4.9	1.9	0.4	0.0	0.0	3.0	1.5	3.0	3.8	5.7
1.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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
686.5	2.5°	702.3	717.3	741.5	766.3	790.8	815.7	839.8	848.5
607.3	5°	637.1	671.8	719.6	770.8	823.6	877.1	926.1	948.3
525.6	7.5°	564.4	614.1	686.1	766.3	850.3	934.4	1011.6	1047.4
444.6	10°	486.8	549.7	631.8	740.3	860.9	976.9	1083.2	1129.5
373.4	12.5°	412.9	478.9	569.7	699.6	852.6	1001.4	1129.1	1183.8
323.3	15°	351.1	409.5	507.5	651.4	825.9	1002.9	1151.0	1210.9
295.4	17.5°	304.8	342.8	444.2	597.9	790.8	989.0	1158.5	1222.6
280.3	20°	281.8	292.4	362.1	529.3	758.0	975.8	1166.1	1233.5
268.3	22.5°	268.3	270.9	296.1	440.8	718.9	971.7	1179.2	1248.6
257.3	25°	257.3	258.1	264.9	349.3	658.9	969.0	1199.6	1269.3
246.0	27.5°	246.4	246.4	250.2	281.4	577.6	957.7	1226.0	1294.2
234.7	30°	235.5	235.5	238.1	249.0	482.2	935.5	1257.6	1326.6
223.4	32.5°	224.2	224.2	226.4	234.3	385.0	907.6	1286.6	1359.3
211.7	35°	212.9	212.1	215.1	223.4	306.3	872.2	1315.6	1394.8
200.1	37.5°	200.8	200.4	203.4	212.9	264.5	831.1	1337.5	1443.0
188.4	40°	188.0	188.0	191.4	201.6	252.4	779.5	1372.1	1512.3
176.3	42.5°	176.3	175.6	179.3	191.8	243.4	730.2	1434.3	1613.3
165.4	45°	165.0	163.5	166.9	182.4	227.6	712.8	1550.4	1762.5
154.8	47.5°	154.5	150.7	153.7	171.0	213.2	777.6	1740.2	1969.3
145.4	50°	145.8	138.6	141.3	159.7	202.3	918.2	1986.6	2244.0
136.8	52.5°	136.8	127.3	128.9	145.8	192.5	1051.9	2253.8	2606.4
128.1	55°	127.3	116.8	117.5	131.9	178.6	1071.9	2514.5	3100.7
118.3	57.5°	116.8	107.0	107.0	119.1	168.4	929.1	2714.9	3714.1
106.2	60°	105.1	98.7	96.8	108.9	177.5	655.6	2738.3	4109.7
90.8	62.5°	92.3	88.9	86.3	99.1	184.2	388.4	2550.3	4014.0
71.6	65°	77.6	76.9	75.0	108.9	155.2	229.4	2189.3	3720.5
61.0	67.5°	65.2	64.0	64.0	114.2	117.9	144.3	1710.5	3316.6
52.0	70°	56.1	52.0	52.0	86.3	71.6	99.8	1194.3	2880.7
43.0	72.5°	47.1	42.6	39.6	68.9	53.5	73.1	746.4	2467.0
32.8	75°	37.7	34.3	30.5	45.6	39.9	55.4	433.6	2043.9
20.7	77.5°	27.1	25.6	21.5	33.5	29.0	39.9	258.1	1577.1
12.8	80°	13.9	14.3	13.6	19.2	19.6	27.1	146.9	1079.4
8.3	82.5°	8.3	6.4	7.2	9.4	11.3	15.4	55.4	634.5
6.0	85°	5.3	3.4	3.4	4.5	5.7	6.0	17.0	257.3
3.0	87.5°	2.6	1.1	1.5	2.3	1.9	1.5	0.8	64.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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