

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: P945574

Luminaire Tested: **GALN-SB1C-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945574
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 5303 lumens
Efficiency: N/A
Efficacy: 97.5 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

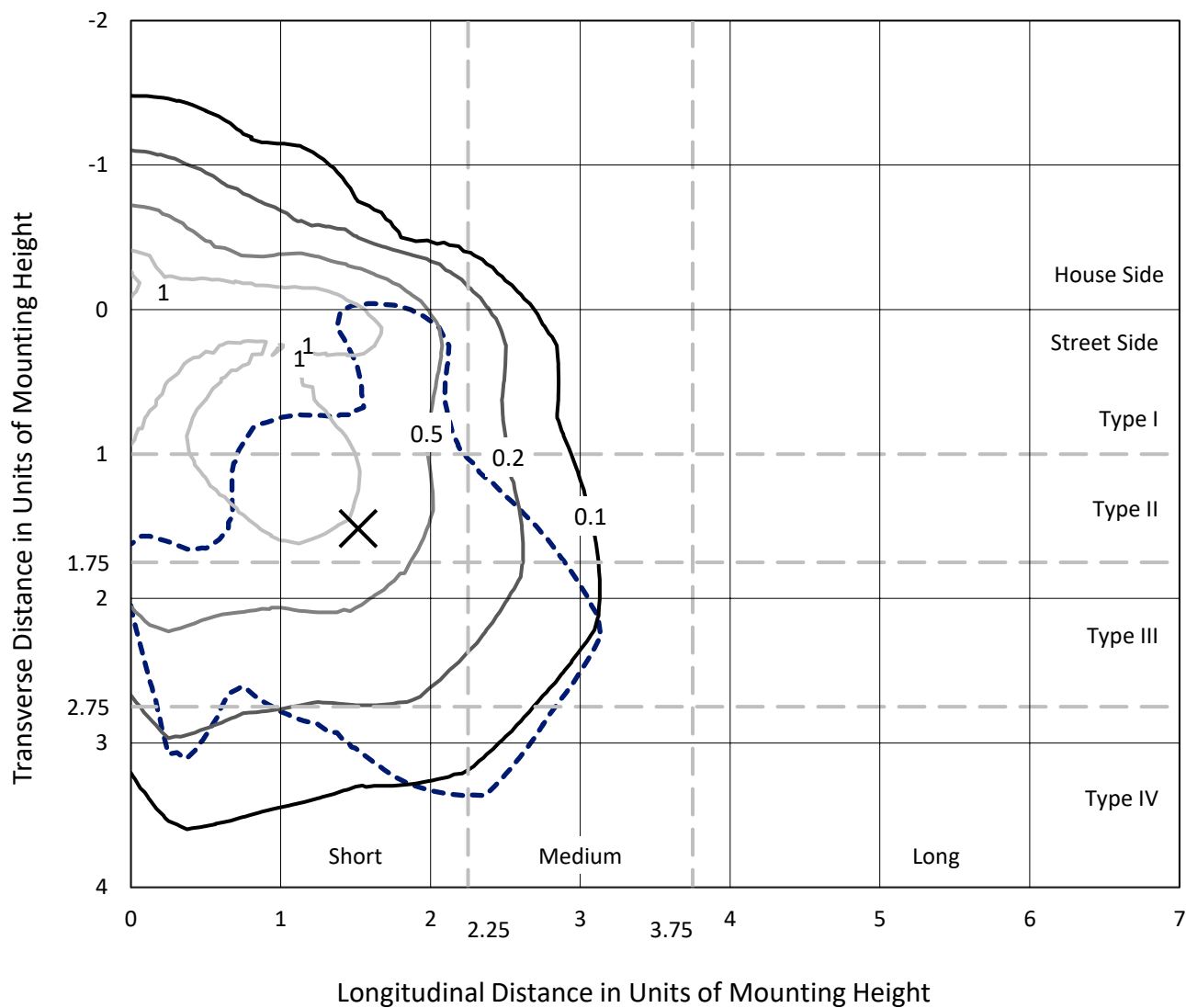


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Iso-Footcandle Lines of Horizontal Illumination

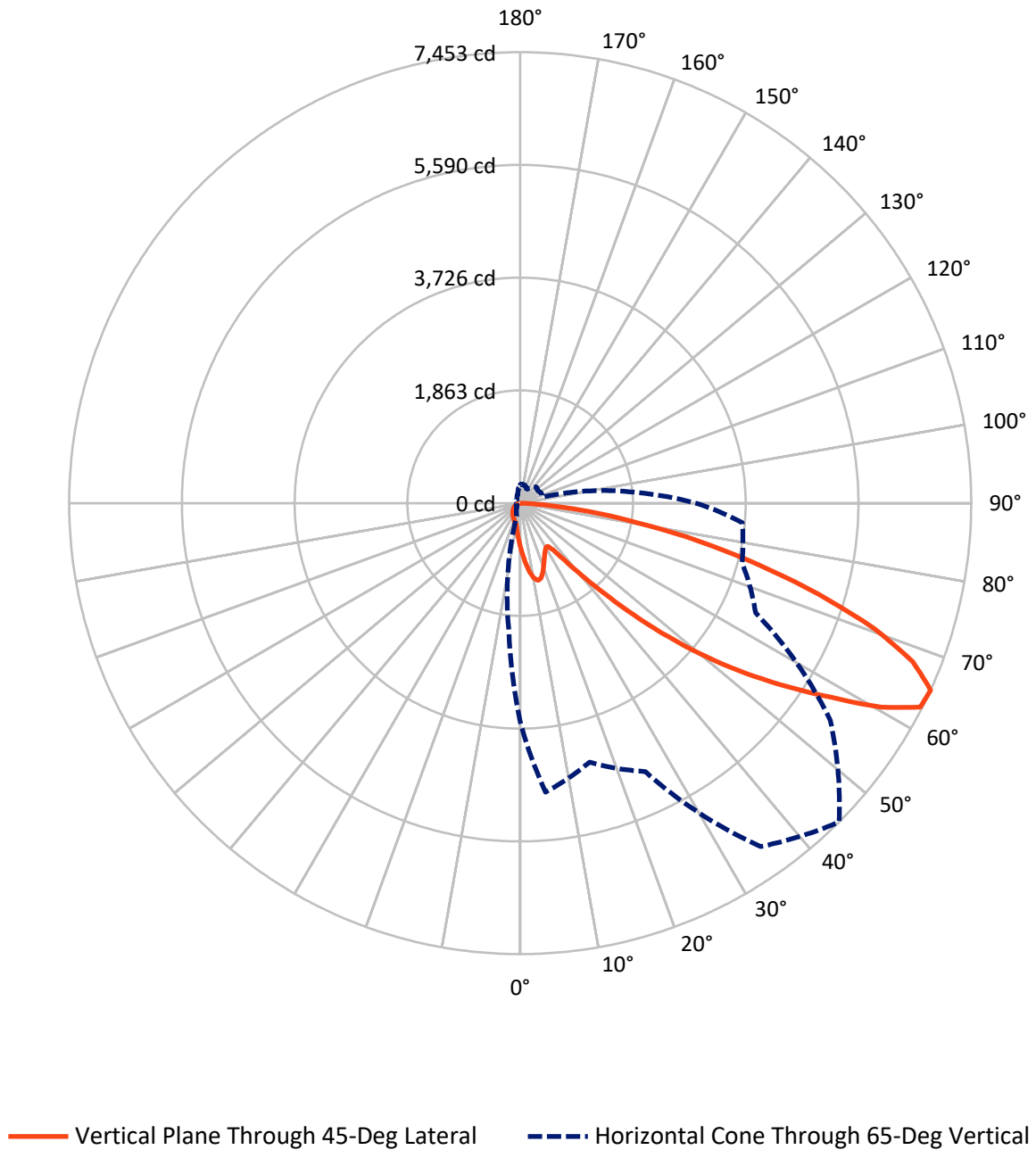
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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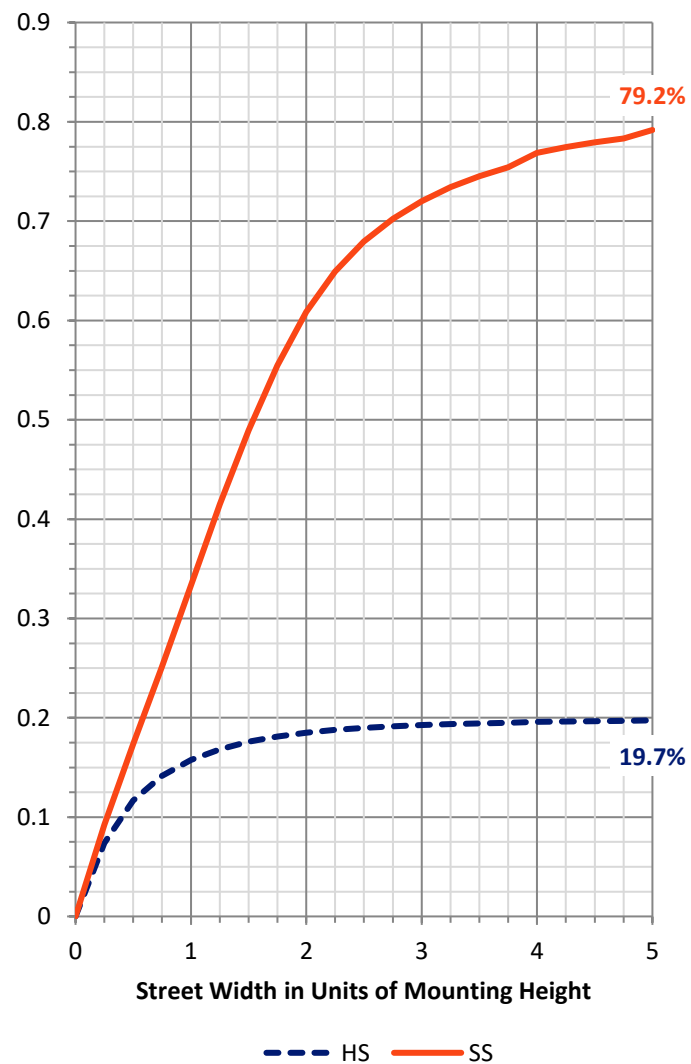
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.1	0.0	1054.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4248.9	0.0	4248.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	5303.0	0.0	5303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.4
10°-20°	216.7	4.1
20°-30°	319.3	6.0
30°-40°	410.2	7.7
40°-50°	663.4	12.5
50°-60°	1163.3	21.9
60°-70°	1455.6	27.4
70°-80°	850.6	16.0
80°-90°	151.8	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°	5303.0	100.0
0°-180°	5303.0	100.0

Coefficient of Utilization



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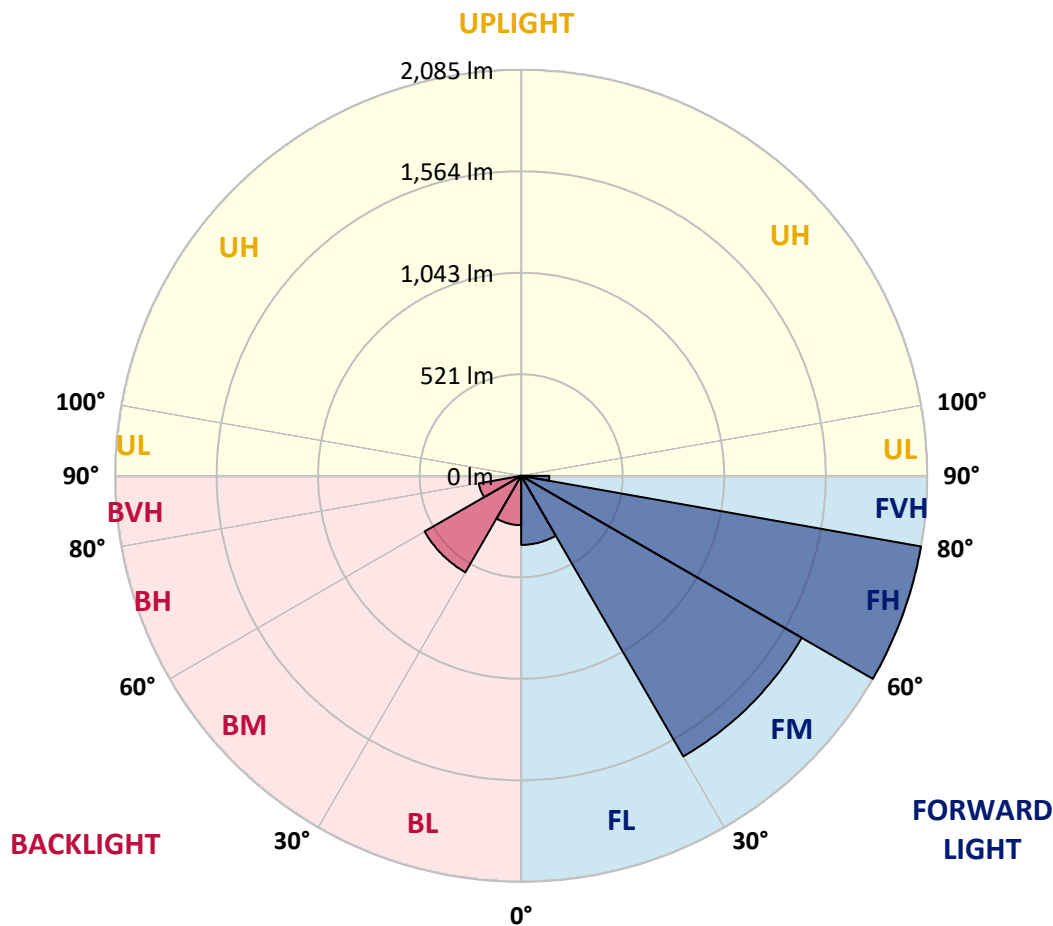
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.8	6.7			
FM	(30°-60°)	1664.1	31.4			
FH	(60°-80°)	2085.3	39.3			G2/5000
FVH	(80°-90°)	144.6	2.7			G2/225
BL	(0°-30°)	253.4	4.8	B1/500		
BM	(30°-60°)	572.7	10.8	B1/1000		
BH	(60°-80°)	220.9	4.2	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	90°
0°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	822.7	828.9	842.8	850.1	861.4	862.2	862.2	852.3	851.9	831.8	829.6
5°	919.5	934.1	967.0	1001.0	1008.3	1010.1	1006.5	986.7	972.1	933.0	924.6
7.5°	1015.6	1043.7	1093.8	1139.1	1153.7	1153.7	1144.9	1112.8	1082.8	1026.2	1005.0
10°	1095.2	1130.7	1198.6	1249.4	1266.2	1262.6	1244.6	1204.1	1162.8	1094.1	1066.4
12.5°	1147.8	1187.7	1262.2	1303.1	1320.3	1310.8	1290.3	1250.9	1207.4	1135.1	1103.6
15°	1174.1	1215.8	1280.5	1302.0	1297.3	1287.4	1284.8	1265.8	1233.0	1165.4	1131.0
17.5°	1185.5	1224.2	1269.1	1255.6	1215.4	1207.8	1233.3	1257.4	1249.4	1191.7	1159.5
20°	1196.1	1228.6	1242.1	1182.2	1112.0	1105.1	1154.0	1222.7	1257.8	1216.2	1186.6
22.5°	1210.7	1230.8	1203.0	1104.7	1029.1	1013.0	1067.1	1170.5	1260.4	1247.2	1217.6
25°	1230.8	1236.2	1159.9	1031.3	955.3	939.2	989.7	1112.4	1256.0	1280.8	1255.6
27.5°	1254.9	1243.6	1118.6	969.9	896.5	881.5	931.9	1056.5	1243.6	1314.4	1296.5
30°	1286.3	1253.1	1077.7	922.4	854.5	843.5	892.1	1008.3	1228.2	1357.2	1347.3
32.5°	1318.1	1257.1	1039.7	894.7	845.0	849.0	888.8	982.3	1211.4	1398.1	1402.8
35°	1352.4	1269.9	1021.1	922.1	924.3	959.3	975.8	1006.5	1208.8	1453.6	1472.2
37.5°	1399.2	1298.4	1043.4	1058.3	1134.3	1207.0	1193.5	1124.5	1238.4	1536.5	1571.2
40°	1466.4	1348.4	1140.5	1290.3	1446.3	1564.3	1512.8	1338.9	1329.0	1656.0	1707.9
42.5°	1564.3	1428.0	1313.0	1573.8	1838.3	2032.6	1894.6	1615.5	1487.6	1826.6	1892.7
45°	1709.0	1557.0	1521.6	1873.0	2321.6	2627.8	2340.6	1910.3	1709.7	2084.9	2136.8
47.5°	1909.5	1746.6	1717.0	2188.3	2909.1	3305.1	2835.3	2183.5	1962.5	2437.1	2449.1
50°	2175.9	2002.0	1902.2	2533.1	3553.1	3995.5	3329.5	2447.3	2252.2	2867.4	2853.5
52.5°	2527.3	2358.1	2118.1	2861.6	4215.4	4671.4	3826.0	2678.9	2611.7	3366.8	3338.3
55°	3006.6	2894.1	2413.3	3175.0	4877.4	5351.2	4303.1	2897.4	3086.6	3960.1	3787.7
57.5°	3601.3	3681.7	2838.9	3538.5	5472.5	6051.9	4782.4	3202.8	3703.3	4623.5	4048.5
60°	3984.9	4729.1	3653.9	4075.9	6148.7	6844.3	5439.3	3783.6	4351.3	4861.3	3998.8
62.5°	3892.1	5062.3	4630.1	4762.0	6770.5	7420.4	6083.0	4367.1	4473.4	4511.0	3616.0
65°	3607.5	4793.4	4431.0	4895.3	6928.0	7452.9	6255.0	4291.8	3794.6	3682.8	2906.5
67.5°	3215.9	4474.5	3957.9	4541.7	6643.4	6998.5	5934.6	3796.4	2932.4	2763.7	2108.6
70°	2793.2	4121.6	3647.4	4144.9	6100.9	6206.4	5390.0	3339.0	2156.9	1866.4	1353.2
72.5°	2392.1	3754.0	3434.8	3738.3	5377.2	5158.7	4680.9	2934.6	1570.5	1346.2	961.9
75°	1981.9	3211.9	3131.9	3255.4	4425.5	4063.5	3889.2	2429.8	1232.6	973.9	663.8
77.5°	1529.2	2509.8	2693.9	2606.9	3115.1	3018.3	3014.6	1825.9	900.5	649.9	416.1
80°	1046.6	1749.2	2104.6	1839.0	2021.7	1972.4	2270.5	1224.9	653.2	391.3	231.6
82.5°	615.2	1064.9	1464.9	890.3	1117.9	1147.5	1352.1	595.8	384.3	90.2	50.4
85°	249.5	420.5	572.8	348.5	539.2	454.8	513.3	167.3	107.0	2.2	0.0
87.5°	62.8	134.4	94.3	39.1	62.5	57.4	45.3	20.5	4.4	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	815.4	807.0	786.2	765.3	748.5	725.9	710.9	693.0	675.8	660.5	657.6
5°	901.6	873.8	835.9	801.1	765.7	731.4	697.4	661.6	628.7	608.6	595.8
7.5°	971.8	922.8	872.4	828.2	785.4	745.3	700.3	656.8	605.3	577.9	553.1
10°	1024.0	959.7	893.6	842.8	799.7	760.6	722.6	678.8	616.7	582.3	545.1
12.5°	1058.3	982.0	904.5	846.4	798.2	767.9	751.1	733.9	672.2	632.0	577.9
15°	1082.1	997.7	912.2	838.0	778.9	756.6	773.4	793.1	753.7	707.3	636.8
17.5°	1108.0	1018.2	915.5	815.4	741.2	731.7	775.2	820.9	819.1	773.0	704.0
20°	1135.4	1036.1	913.3	778.9	695.6	704.0	759.5	812.5	834.8	809.9	748.5
22.5°	1163.5	1053.2	904.9	731.4	652.8	679.1	734.7	781.1	807.4	799.7	752.9
25°	1199.0	1077.3	892.5	680.2	617.4	653.9	705.8	743.4	761.7	761.3	729.2
27.5°	1241.4	1109.5	885.9	638.9	592.2	625.4	671.5	705.1	717.9	717.9	692.3
30°	1290.7	1147.5	878.6	611.9	577.6	595.8	631.6	664.5	677.3	677.3	655.8
32.5°	1345.5	1184.0	861.1	595.5	566.6	567.0	589.6	619.6	634.9	637.1	621.8
35°	1411.2	1223.1	822.7	582.3	553.8	538.8	549.8	574.7	592.9	597.7	588.2
37.5°	1497.5	1271.0	767.9	563.0	534.1	509.3	511.8	530.8	550.9	558.2	552.0
40°	1613.3	1327.2	710.9	535.2	506.3	476.7	475.6	489.5	509.3	517.3	514.0
42.5°	1766.3	1394.8	656.5	508.5	472.7	442.4	440.6	451.5	468.7	477.1	475.6
45°	1962.1	1477.7	609.7	487.7	439.8	409.9	409.2	418.3	433.3	442.0	440.2
47.5°	2234.3	1560.7	577.9	476.7	413.9	383.2	384.7	392.7	406.2	412.4	409.9
50°	2589.0	1585.9	561.9	476.7	400.0	359.5	366.8	373.4	383.6	387.2	384.0
52.5°	2929.5	1502.6	547.3	479.7	401.9	339.4	355.1	359.8	368.6	370.1	365.3
55°	3096.5	1291.8	527.2	480.4	413.2	322.2	345.6	354.4	357.6	357.3	349.2
57.5°	3039.1	1044.5	493.2	477.5	420.9	311.3	333.9	350.7	352.9	349.6	334.6
60°	2837.8	769.0	467.2	455.9	417.9	308.0	316.0	342.7	346.0	341.6	317.1
62.5°	2500.3	533.7	447.2	408.4	405.1	306.9	287.9	325.1	333.2	327.0	291.2
65°	1968.4	377.0	385.0	358.0	377.4	301.0	258.6	303.9	314.9	305.4	255.0
67.5°	1332.0	272.2	312.0	324.4	332.4	287.9	237.5	279.8	294.4	282.0	213.0
70°	719.3	191.1	206.0	273.3	282.4	265.2	218.5	255.4	272.2	258.6	173.5
72.5°	424.9	137.4	144.3	219.6	235.3	233.4	197.3	226.9	247.3	231.2	141.0
75°	234.2	92.8	103.0	159.3	191.1	180.1	169.5	192.2	213.0	197.3	108.9
77.5°	104.8	55.5	71.6	104.5	150.1	123.5	131.2	149.8	169.1	152.7	72.7
80°	40.6	31.1	47.5	57.0	109.2	68.3	84.4	110.3	124.2	111.1	44.2
82.5°	5.1	13.9	20.5	22.3	63.6	36.2	49.0	69.4	68.3	59.2	22.3
85°	0.0	2.6	2.9	1.5	27.4	13.2	16.1	22.6	21.2	16.1	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	639.7	626.5	620.0	614.5	619.6	622.5	622.5	634.9	642.2	645.2	665.6
5°	563.7	539.2	522.8	512.9	516.2	519.9	523.9	539.6	550.2	557.1	588.9
7.5°	503.8	466.5	443.5	431.4	433.3	435.8	439.1	454.5	465.1	474.2	509.6
10°	474.2	421.6	391.3	376.6	374.1	372.6	371.5	380.7	388.7	396.0	431.1
12.5°	475.6	402.2	365.3	347.4	339.7	331.0	324.0	325.5	330.6	339.7	362.0
15°	494.3	396.0	351.8	329.5	316.7	306.5	298.1	296.3	298.1	299.6	313.4
17.5°	519.5	395.3	340.1	312.3	299.2	290.8	283.1	280.6	280.9	282.8	286.4
20°	539.6	393.1	327.0	295.9	284.2	276.9	269.2	266.7	267.4	267.8	271.8
22.5°	550.2	389.8	312.3	279.5	269.6	262.3	255.4	255.0	255.0	257.2	260.1
25°	550.2	382.9	299.2	263.8	255.0	248.4	240.0	241.5	242.2	245.1	249.5
27.5°	537.0	369.7	288.6	250.2	241.1	234.5	226.9	228.7	229.8	233.1	238.6
30°	520.2	354.0	276.5	237.5	226.9	222.1	215.5	216.3	217.7	221.4	227.6
32.5°	502.3	335.4	266.7	224.7	214.1	210.4	203.1	204.2	205.7	209.7	216.6
35°	482.6	313.4	255.0	213.0	202.4	199.5	191.1	191.8	194.0	198.4	205.3
37.5°	461.8	295.5	243.3	201.7	190.7	187.8	179.0	179.7	182.3	187.4	194.0
40°	441.3	278.0	230.9	189.6	178.6	176.1	166.6	167.3	170.2	175.7	182.7
42.5°	419.0	264.5	214.8	177.2	165.5	162.9	154.2	155.3	158.5	164.0	171.0
45°	392.4	255.7	196.9	165.5	152.3	149.8	141.7	143.9	147.6	153.1	160.4
47.5°	365.0	252.1	181.9	153.1	138.8	136.6	130.1	133.7	137.7	142.1	150.1
50°	338.7	247.3	166.6	141.4	127.1	124.9	120.6	125.3	129.3	133.3	141.0
52.5°	308.7	237.1	152.7	131.2	117.3	116.5	114.3	118.7	122.4	126.0	132.6
55°	277.6	220.7	140.6	122.0	108.9	109.6	108.5	112.2	115.1	118.4	124.2
57.5°	250.6	199.8	131.2	112.2	101.6	103.8	102.3	104.1	105.9	110.0	114.7
60°	223.2	175.0	120.6	100.5	94.3	96.8	92.8	92.4	93.2	94.3	103.0
62.5°	186.3	149.1	107.4	90.2	86.2	87.3	79.6	73.8	73.8	74.9	88.0
65°	149.8	124.9	92.8	78.5	75.3	74.5	63.6	55.5	54.8	58.1	69.4
67.5°	123.1	103.8	78.2	65.4	63.2	63.9	55.9	47.9	47.1	50.8	59.2
70°	101.9	83.7	62.5	50.4	52.6	55.9	47.9	40.2	39.1	42.4	50.4
72.5°	81.1	65.4	47.9	37.3	43.5	47.5	39.1	31.8	31.1	34.0	41.6
75°	59.5	46.8	32.5	27.0	33.6	37.3	28.5	22.6	21.6	24.1	31.8
77.5°	36.9	26.3	20.5	16.1	23.0	24.8	15.0	13.2	12.8	14.6	20.1
80°	17.2	11.3	9.9	5.5	8.4	9.9	6.2	6.9	7.3	8.8	12.4
82.5°	4.7	1.8	0.4	0.0	0.0	2.9	1.5	2.9	3.7	5.5	8.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8	3.3	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.9
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	734.3	734.3	734.3	734.3	734.3	734.3	734.3	734.3
2.5°	681.0	695.6	719.0	743.1	766.8	790.9	814.3	822.7
5°	617.8	651.4	697.8	747.4	798.6	850.5	898.0	919.5
7.5°	547.3	595.5	665.3	743.1	824.5	906.0	980.9	1015.6
10°	472.0	533.0	612.6	717.9	834.8	947.3	1050.3	1095.2
12.5°	400.4	464.3	552.4	678.4	826.7	971.0	1094.9	1147.8
15°	340.5	397.1	492.1	631.6	800.8	972.5	1116.1	1174.1
17.5°	295.5	332.4	430.7	579.8	766.8	959.0	1123.4	1185.5
20°	273.3	283.5	351.1	513.3	735.0	946.2	1130.7	1196.1
22.5°	260.1	262.7	287.1	427.4	697.0	942.2	1143.5	1210.7
25°	249.5	250.2	256.8	338.7	638.9	939.6	1163.2	1230.8
27.5°	238.9	238.9	242.6	272.9	560.0	928.6	1188.8	1254.9
30°	228.3	228.3	230.9	241.5	467.6	907.1	1219.4	1286.3
32.5°	217.4	217.4	219.6	227.2	373.4	880.1	1247.6	1318.1
35°	206.4	205.7	208.6	216.6	297.0	845.7	1275.7	1352.4
37.5°	194.7	194.4	197.3	206.4	256.5	805.9	1296.9	1399.2
40°	182.3	182.3	185.6	195.4	244.8	755.8	1330.5	1466.4
42.5°	171.0	170.2	173.9	185.9	236.0	708.0	1390.8	1564.3
45°	160.0	158.5	161.8	176.8	220.7	691.2	1503.3	1709.0
47.5°	149.8	146.1	149.1	165.9	206.8	754.0	1687.4	1909.5
50°	141.4	134.4	137.0	154.9	196.2	890.3	1926.3	2175.9
52.5°	132.6	123.5	124.9	141.4	186.7	1020.0	2185.4	2527.3
55°	123.5	113.2	114.0	127.9	173.2	1039.3	2438.2	3006.6
57.5°	113.2	103.8	103.8	115.4	163.3	900.9	2632.5	3601.3
60°	101.9	95.7	93.9	105.6	172.1	635.7	2655.2	3984.9
62.5°	89.5	86.2	83.7	96.1	178.6	376.6	2472.9	3892.1
65°	75.3	74.5	72.7	105.6	150.5	222.5	2122.9	3607.5
67.5°	63.2	62.1	62.1	110.7	114.3	139.9	1658.6	3215.9
70°	54.4	50.4	50.4	83.7	69.4	96.8	1158.1	2793.2
72.5°	45.7	41.3	38.4	66.9	51.9	70.9	723.7	2392.1
75°	36.5	33.2	29.6	44.2	38.7	53.7	420.5	1981.9
77.5°	26.3	24.8	20.8	32.5	28.1	38.7	250.2	1529.2
80°	13.5	13.9	13.2	18.6	19.0	26.3	142.5	1046.6
82.5°	8.0	6.2	6.9	9.1	11.0	15.0	53.7	615.2
85°	5.1	3.3	3.3	4.4	5.5	5.8	16.4	249.5
87.5°	2.6	1.1	1.5	2.2	1.8	1.5	0.7	62.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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