

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: P946416

Luminaire Tested: **GALN-SB2A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946416
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-SB2A-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA 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: 5953 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

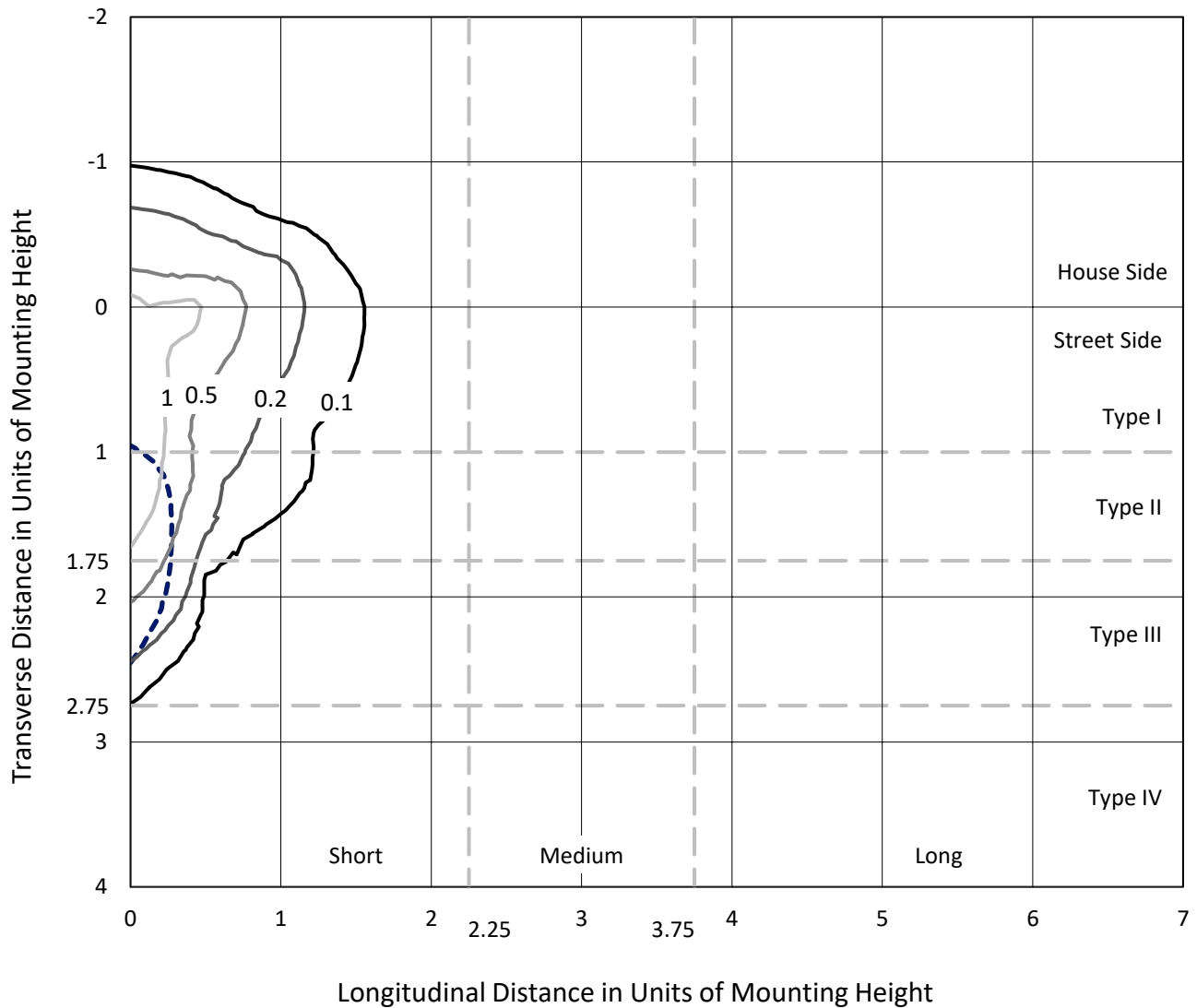
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

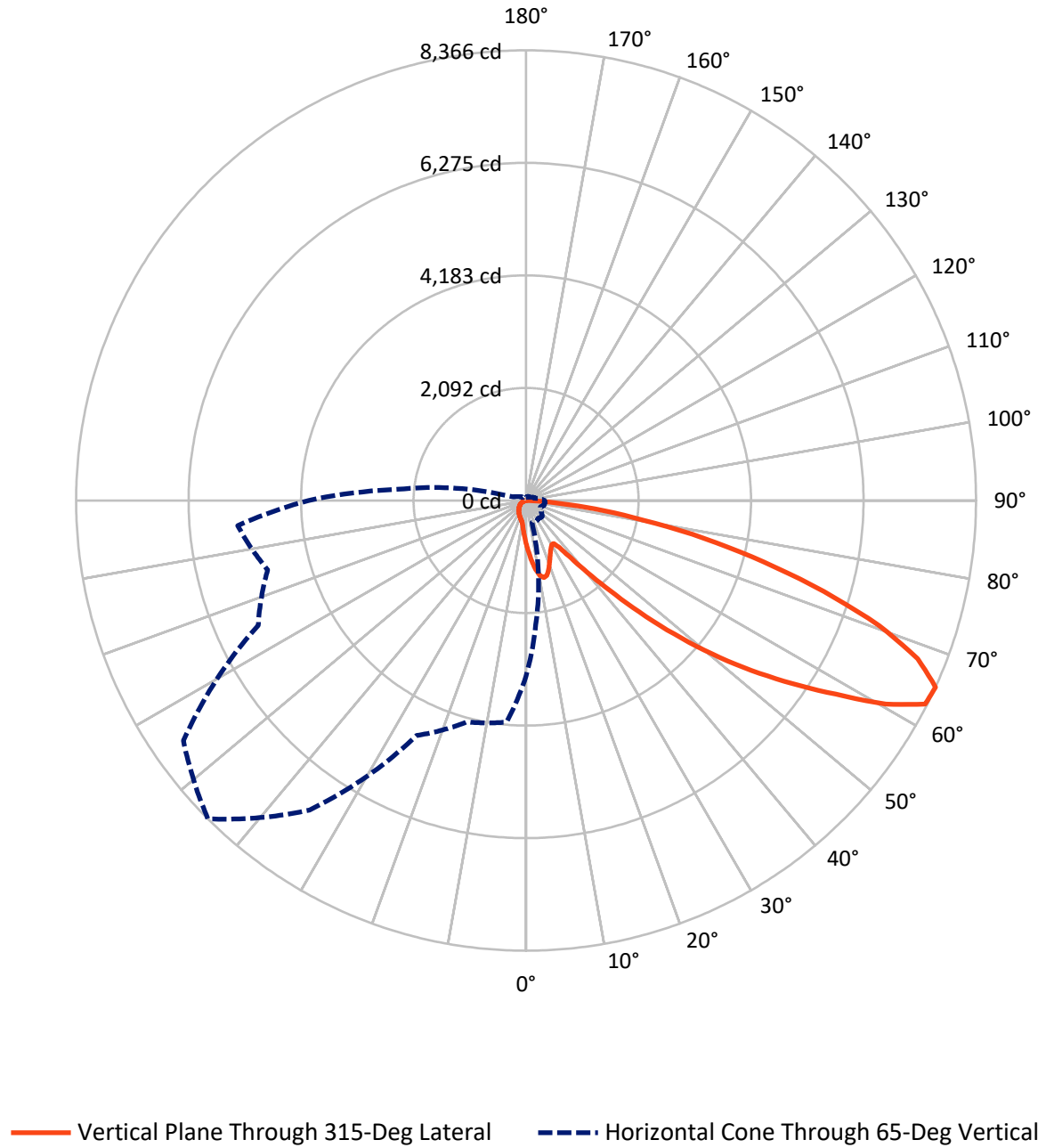
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	833.7	0.0	833.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5119.3	0.0	5119.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	5953.0	0.0	5953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.4
10°-20°	243.3	4.1
20°-30°	358.4	6.0
30°-40°	460.4	7.7
40°-50°	744.7	12.5
50°-60°	1305.9	21.9
60°-70°	1634.0	27.4
70°-80°	954.8	16.0
80°-90°	170.4	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°	5953.0	100.0
0°-180°	5953.0	100.0

Coefficient of Utilization



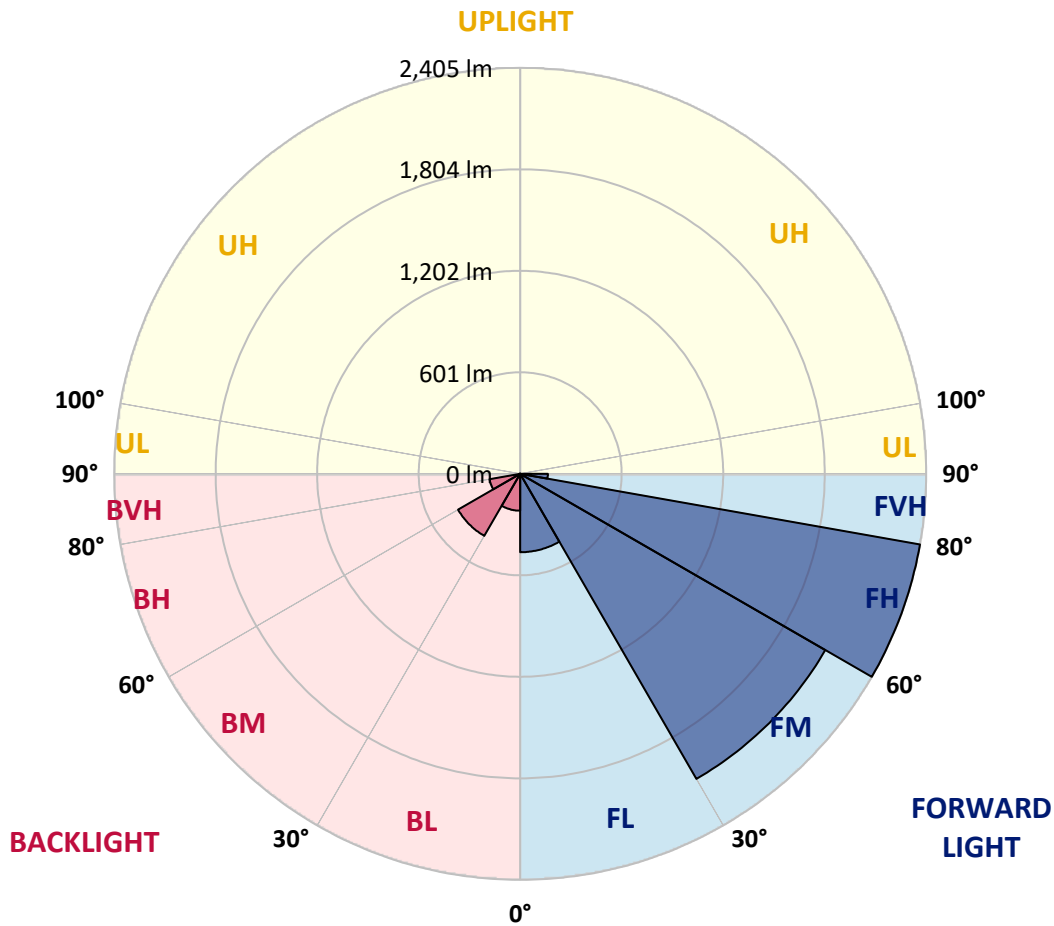
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.3	7.8			
FM (30°-60°)	2086.5	35.0			
FH (60°-80°)	2404.7	40.4			G2/5000
FVH (80°-90°)	163.8	2.8			G2/225
BL (0°-30°)	218.5	3.7	B1/500		
BM (30°-60°)	424.5	7.1	B1/1000		
BH (60°-80°)	184.1	3.1	B1/500		G1/500
BVH (80°-90°)	6.5	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°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
2.5°	931.3	915.3	905.9	882.5	859.2	840.3	814.9	798.1	778.0	758.7
5°	1038.0	1012.1	981.0	938.3	899.3	859.6	821.0	782.9	742.7	705.8
7.5°	1128.2	1090.9	1035.9	979.3	929.7	881.7	836.6	786.2	737.4	679.5
10°	1197.1	1149.5	1077.3	1003.1	946.1	897.7	853.8	811.2	762.0	692.2
12.5°	1238.9	1188.1	1102.3	1015.4	950.2	896.1	862.0	843.2	823.9	754.6
15°	1269.7	1214.7	1120.0	1024.0	940.8	874.3	849.3	868.2	890.3	846.0
17.5°	1301.7	1243.8	1142.9	1027.7	915.3	832.1	821.4	870.2	921.5	919.4
20°	1332.0	1274.6	1163.0	1025.2	874.3	780.8	790.3	852.6	912.1	937.1
22.5°	1366.9	1306.2	1182.3	1015.8	821.0	732.8	762.4	824.7	876.8	906.3
25°	1409.5	1345.9	1209.4	1001.9	763.6	693.1	734.1	792.3	834.6	855.1
27.5°	1455.4	1393.5	1245.5	994.5	717.3	664.8	702.1	753.8	791.5	805.8
30°	1512.4	1448.9	1288.1	986.3	686.9	648.4	668.9	709.1	746.0	760.3
32.5°	1574.8	1510.4	1329.1	966.6	668.5	636.1	636.5	661.9	695.5	712.8
35°	1652.7	1584.2	1373.0	923.5	653.7	621.7	604.9	617.2	645.1	665.6
37.5°	1763.8	1681.0	1426.7	862.0	632.0	599.6	571.7	574.5	595.9	618.4
40°	1917.2	1811.0	1489.9	798.1	600.8	568.4	535.2	533.9	549.5	571.7
42.5°	2124.7	1982.8	1565.8	736.9	570.9	530.7	496.6	494.6	506.9	526.2
45°	2398.7	2202.6	1658.9	684.5	547.5	493.8	460.1	459.3	469.6	486.4
47.5°	2749.3	2508.2	1751.9	648.8	535.2	464.6	430.2	431.8	440.9	456.0
50°	3203.3	2906.4	1780.2	630.7	535.2	449.1	403.5	411.7	419.1	430.6
52.5°	3747.5	3288.6	1686.7	614.3	538.5	451.1	381.0	398.6	403.9	413.8
55°	4251.9	3476.0	1450.1	591.8	539.3	463.8	361.7	388.0	397.8	401.5
57.5°	4544.7	3411.6	1172.5	553.6	536.0	472.4	349.4	374.8	393.7	396.2
60°	4488.9	3185.7	863.3	524.5	511.8	469.2	345.7	354.7	384.7	388.4
62.5°	4059.2	2806.7	599.2	502.0	458.5	454.8	344.5	323.2	365.0	374.0
65°	3262.8	2209.6	423.2	432.2	401.9	423.6	337.9	290.4	341.2	353.5
67.5°	2367.1	1495.2	305.5	350.2	364.2	373.2	323.2	266.6	314.1	330.5
70°	1519.0	807.5	214.5	231.3	306.8	317.0	297.7	245.2	286.7	305.5
72.5°	1079.8	476.9	154.2	162.0	246.5	264.1	262.1	221.5	254.7	277.6
75°	745.2	262.9	104.2	115.6	178.8	214.5	202.2	190.3	215.7	239.1
77.5°	467.1	117.7	62.3	80.4	117.3	168.6	138.6	147.2	168.1	189.9
80°	260.0	45.5	34.9	53.3	64.0	122.6	76.7	94.7	123.9	139.4
82.5°	56.6	5.7	15.6	23.0	25.0	71.4	40.6	55.0	77.9	76.7
85°	0.0	0.0	2.9	3.3	1.6	30.8	14.8	18.0	25.4	23.8
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°
824.3	0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
741.5	2.5°	738.2	718.1	703.3	695.9	689.8	695.5	698.8	698.8	712.8	721.0
683.2	5°	668.9	632.8	605.3	586.9	575.8	579.5	583.6	588.1	605.7	617.6
648.8	7.5°	620.9	565.5	523.7	497.9	484.3	486.4	489.2	492.9	510.2	522.1
653.7	10°	611.9	532.3	473.3	439.2	422.8	419.9	418.3	417.1	427.3	436.3
709.5	12.5°	648.8	533.9	451.5	410.1	390.0	381.4	371.6	363.8	365.4	371.1
794.0	15°	714.8	554.9	444.5	394.9	369.9	355.6	344.1	334.6	332.6	334.6
867.8	17.5°	790.3	583.2	443.7	381.8	350.6	335.9	326.4	317.8	315.0	315.4
909.2	20°	840.3	605.7	441.3	367.0	332.2	319.1	310.9	302.2	299.4	300.2
897.7	22.5°	845.2	617.6	437.6	350.6	313.7	302.7	294.5	286.7	286.2	286.2
854.6	25°	818.6	617.6	429.8	335.9	296.1	286.2	278.9	269.4	271.1	271.9
805.8	27.5°	777.1	602.8	415.0	324.0	280.9	270.7	263.3	254.7	256.7	258.0
760.3	30°	736.1	584.0	397.4	310.4	266.6	254.7	249.3	242.0	242.8	244.4
715.2	32.5°	698.0	563.9	376.5	299.4	252.2	240.3	236.2	228.0	229.2	230.9
670.9	35°	660.3	541.7	351.9	286.2	239.1	227.2	223.9	214.5	215.3	217.8
626.6	37.5°	619.7	518.4	331.8	273.1	226.4	214.1	210.8	200.9	201.8	204.6
580.7	40°	577.0	495.4	312.1	259.2	212.8	200.5	197.7	187.0	187.8	191.1
535.6	42.5°	533.9	470.4	296.9	241.1	198.9	185.8	182.9	173.1	174.3	178.0
496.2	45°	494.2	440.4	287.1	221.0	185.8	171.0	168.1	159.1	161.6	165.7
463.0	47.5°	460.1	409.7	283.0	204.2	171.8	155.8	153.4	146.0	150.1	154.6
434.7	50°	431.0	380.2	277.6	187.0	158.7	142.7	140.3	135.3	140.7	145.2
415.4	52.5°	410.1	346.5	266.2	171.4	147.2	131.6	130.8	128.4	133.3	137.4
401.1	55°	392.1	311.7	247.7	157.9	137.0	122.2	123.0	121.8	125.9	129.2
392.5	57.5°	375.7	281.3	224.3	147.2	125.9	114.0	116.5	114.8	116.9	118.9
383.4	60°	356.0	250.6	196.4	135.3	112.8	105.8	108.7	104.2	103.8	104.6
367.0	62.5°	326.8	209.2	167.3	120.6	101.3	96.8	98.0	89.4	82.8	82.8
342.8	65°	286.2	168.1	140.3	104.2	88.2	84.5	83.7	71.4	62.3	61.5
316.6	67.5°	239.1	138.2	116.5	87.8	73.4	70.9	71.8	62.7	53.7	52.9
290.4	70°	194.8	114.4	93.9	70.1	56.6	59.1	62.7	53.7	45.1	43.9
259.6	72.5°	158.3	91.0	73.4	53.7	41.8	48.8	53.3	43.9	35.7	34.9
221.5	75°	122.2	66.8	52.5	36.5	30.3	37.7	41.8	32.0	25.4	24.2
171.4	77.5°	81.6	41.4	29.5	23.0	18.0	25.8	27.9	16.8	14.8	14.4
124.7	80°	49.6	19.3	12.7	11.1	6.2	9.4	11.1	7.0	7.8	8.2
66.4	82.5°	25.0	5.3	2.1	0.4	0.0	0.0	3.3	1.6	3.3	4.1
18.0	85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.1
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°
824.3	0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
724.2	2.5°	747.2	764.4	780.8	807.1	834.1	860.8	887.9	914.1	923.5	930.5
625.4	5°	661.1	693.5	731.2	783.3	839.1	896.5	954.7	1008.0	1032.2	1048.6
532.3	7.5°	572.1	614.3	668.5	746.8	834.1	925.6	1017.0	1101.1	1140.1	1171.7
444.5	10°	483.9	529.8	598.3	687.7	805.8	937.1	1063.4	1179.0	1229.5	1269.3
381.4	12.5°	406.4	449.5	521.2	620.1	761.6	928.1	1090.0	1229.1	1288.5	1333.2
336.3	15°	351.9	382.2	445.8	552.4	709.1	898.9	1091.7	1252.9	1318.1	1364.8
317.4	17.5°	321.5	331.8	373.2	483.5	650.8	860.8	1076.5	1261.1	1330.8	1374.2
300.6	20°	305.1	306.8	318.2	394.1	576.2	825.1	1062.2	1269.3	1342.7	1379.2
288.7	22.5°	292.0	292.0	294.9	322.3	479.8	782.5	1057.6	1283.6	1359.1	1381.6
275.2	25°	280.1	280.1	280.9	288.3	380.2	717.3	1054.8	1305.8	1381.6	1387.8
261.6	27.5°	267.8	268.2	268.2	272.3	306.3	628.7	1042.5	1334.5	1408.7	1396.0
248.5	30°	255.5	256.3	256.3	259.2	271.1	524.9	1018.3	1368.9	1444.0	1406.6
235.4	32.5°	243.2	244.0	244.0	246.5	255.1	419.1	987.9	1400.5	1479.6	1411.2
222.7	35°	230.5	231.7	230.9	234.2	243.2	333.4	949.4	1432.1	1518.2	1425.5
210.4	37.5°	217.8	218.6	218.2	221.5	231.7	287.9	904.7	1455.9	1570.7	1457.5
197.3	40°	205.0	204.6	204.6	208.3	219.4	274.8	848.5	1493.6	1646.1	1513.7
184.1	42.5°	191.9	191.9	191.1	195.2	208.7	264.9	794.8	1561.2	1756.0	1603.1
171.8	45°	180.0	179.6	178.0	181.7	198.5	247.7	775.9	1687.6	1918.4	1747.8
159.5	47.5°	168.6	168.1	164.0	167.3	186.2	232.1	846.4	1894.2	2143.6	1960.7
149.7	50°	158.3	158.7	150.9	153.8	173.9	220.2	999.4	2162.5	2442.6	2247.3
141.5	52.5°	148.9	148.9	138.6	140.3	158.7	209.6	1145.0	2453.2	2837.1	2647.2
132.9	55°	139.4	138.6	127.1	128.0	143.5	194.4	1166.7	2737.0	3375.1	3248.8
123.4	57.5°	128.8	127.1	116.5	116.5	129.6	183.3	1011.3	2955.2	4042.8	4133.0
105.8	60°	115.6	114.4	107.4	105.4	118.5	193.2	713.6	2980.6	4473.4	5308.7
84.1	62.5°	98.8	100.5	96.8	93.9	107.9	200.5	422.8	2776.0	4369.2	5682.7
65.2	65°	77.9	84.5	83.7	81.6	118.5	169.0	249.8	2383.1	4049.7	5380.9
57.0	67.5°	66.4	70.9	69.7	69.7	124.3	128.4	157.1	1861.9	3610.1	5022.9
47.6	70°	56.6	61.1	56.6	56.6	93.9	77.9	108.7	1300.0	3135.6	4626.7
38.1	72.5°	46.8	51.3	46.3	43.1	75.0	58.2	79.6	812.4	2685.3	4214.2
27.1	75°	35.7	41.0	37.3	33.2	49.6	43.5	60.3	472.0	2224.8	3605.6
16.4	77.5°	22.6	29.5	27.9	23.4	36.5	31.6	43.5	280.9	1716.7	2817.4
9.8	80°	13.9	15.2	15.6	14.8	20.9	21.3	29.5	159.9	1174.9	1963.6
6.2	82.5°	9.0	9.0	7.0	7.8	10.3	12.3	16.8	60.3	690.6	1195.4
3.7	85°	6.6	5.7	3.7	3.7	4.9	6.2	6.6	18.5	280.1	472.0
1.6	87.5°	3.3	2.9	1.2	1.6	2.5	2.1	1.6	0.8	70.5	150.9
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°
824.3	0°	824.3	824.3	824.3	824.3	824.3	824.3	824.3	824.3
946.1	2.5°	954.3	967.0	967.8	967.8	956.8	956.4	933.8	931.3
1085.5	5°	1123.7	1131.9	1133.9	1129.8	1107.7	1091.3	1047.4	1038.0
1227.8	7.5°	1278.7	1295.1	1295.1	1285.3	1249.2	1215.5	1152.0	1128.2
1345.5	10°	1402.5	1421.4	1417.3	1397.2	1351.7	1305.3	1228.2	1197.1
1416.9	12.5°	1462.8	1482.1	1471.4	1448.5	1404.2	1355.4	1274.2	1238.9
1437.4	15°	1461.6	1456.3	1445.2	1442.3	1421.0	1384.1	1308.2	1269.7
1424.7	17.5°	1409.5	1364.4	1355.8	1384.5	1411.6	1402.5	1337.7	1301.7
1394.3	20°	1327.1	1248.3	1240.6	1295.5	1372.6	1412.0	1365.2	1332.0
1350.5	22.5°	1240.1	1155.3	1137.2	1197.9	1314.0	1414.8	1400.1	1366.9
1302.1	25°	1157.7	1072.4	1054.4	1111.0	1248.8	1409.9	1437.8	1409.5
1255.7	27.5°	1088.8	1006.4	989.6	1046.2	1186.0	1396.0	1475.5	1455.4
1209.8	30°	1035.5	959.2	946.9	1001.5	1131.9	1378.8	1523.5	1512.4
1167.1	32.5°	1004.3	948.6	953.1	997.8	1102.8	1359.9	1569.5	1574.8
1146.2	35°	1035.1	1037.6	1076.9	1095.4	1129.8	1357.0	1631.8	1652.7
1171.2	37.5°	1188.1	1273.4	1355.0	1339.8	1262.3	1390.2	1724.9	1763.8
1280.3	40°	1448.5	1623.6	1756.0	1698.2	1503.0	1491.9	1859.0	1917.2
1473.9	42.5°	1766.7	2063.6	2281.8	2126.8	1813.5	1669.9	2050.5	2124.7
1708.1	45°	2102.6	2606.2	2949.8	2627.5	2144.4	1919.3	2340.4	2398.7
1927.5	47.5°	2456.5	3265.6	3710.2	3182.8	2451.2	2203.1	2735.8	2749.3
2135.4	50°	2843.6	3988.6	4485.3	3737.6	2747.3	2528.3	3218.9	3203.3
2377.8	52.5°	3212.3	4732.1	5243.9	4295.0	3007.3	2931.8	3779.5	3747.5
2709.1	55°	3564.2	5475.2	6007.1	4830.6	3252.5	3464.9	4445.5	4251.9
3186.9	57.5°	3972.2	6143.3	6793.7	5368.6	3595.3	4157.2	5190.2	4544.7
4101.8	60°	4575.5	6902.4	7683.2	6106.0	4247.4	4884.7	5457.2	4488.9
5197.6	62.5°	5345.6	7600.4	8329.9	6828.6	4902.3	5021.7	5063.9	4059.2
4974.1	65°	5495.3	7777.1	8366.4	7021.7	4817.8	4259.7	4134.2	3262.8
4443.0	67.5°	5098.4	7457.7	7856.3	6662.1	4261.8	3291.9	3102.4	2367.1
4094.4	70°	4653.0	6848.7	6967.2	6050.6	3748.3	2421.2	2095.2	1519.0
3855.8	72.5°	4196.5	6036.3	5791.0	5254.6	3294.3	1763.0	1511.2	1079.8
3515.8	75°	3654.4	4967.9	4561.5	4365.9	2727.6	1383.7	1093.3	745.2
3024.1	77.5°	2926.5	3496.9	3388.2	3384.1	2049.7	1010.9	729.6	467.1
2362.6	80°	2064.4	2269.5	2214.1	2548.8	1375.1	733.3	439.2	260.0
1644.5	82.5°	999.4	1254.9	1288.1	1517.8	668.9	431.4	101.3	56.6
643.0	85°	391.2	605.3	510.6	576.2	187.8	120.2	2.5	0.0
105.8	87.5°	43.9	70.1	64.4	50.9	23.0	4.9	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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