

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: P946500

Luminaire Tested: **GALN-SB2A-850-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946500  
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-850-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

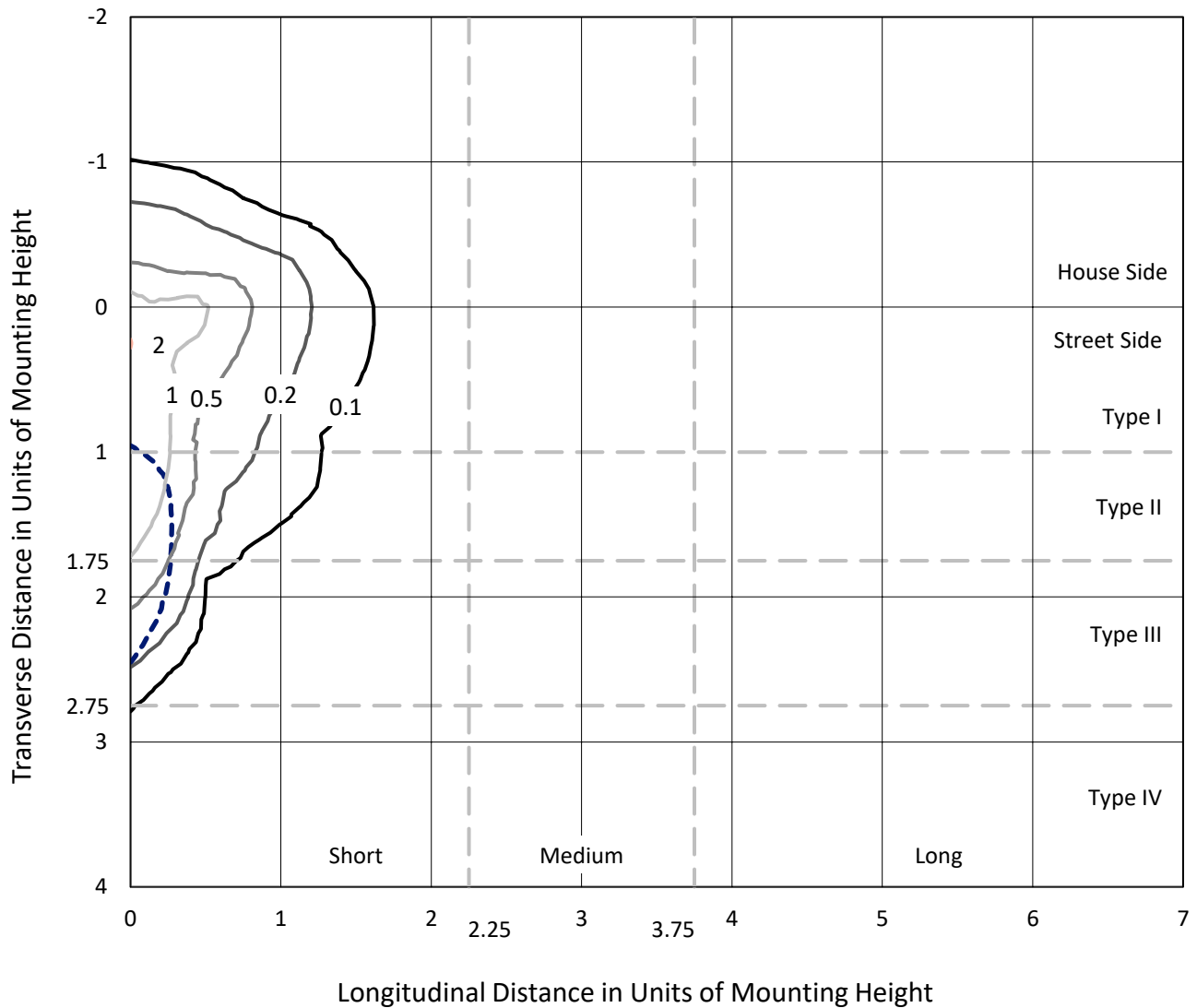
Lumens per Lamp: N/A  
Luminaire Lumens: 6549 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

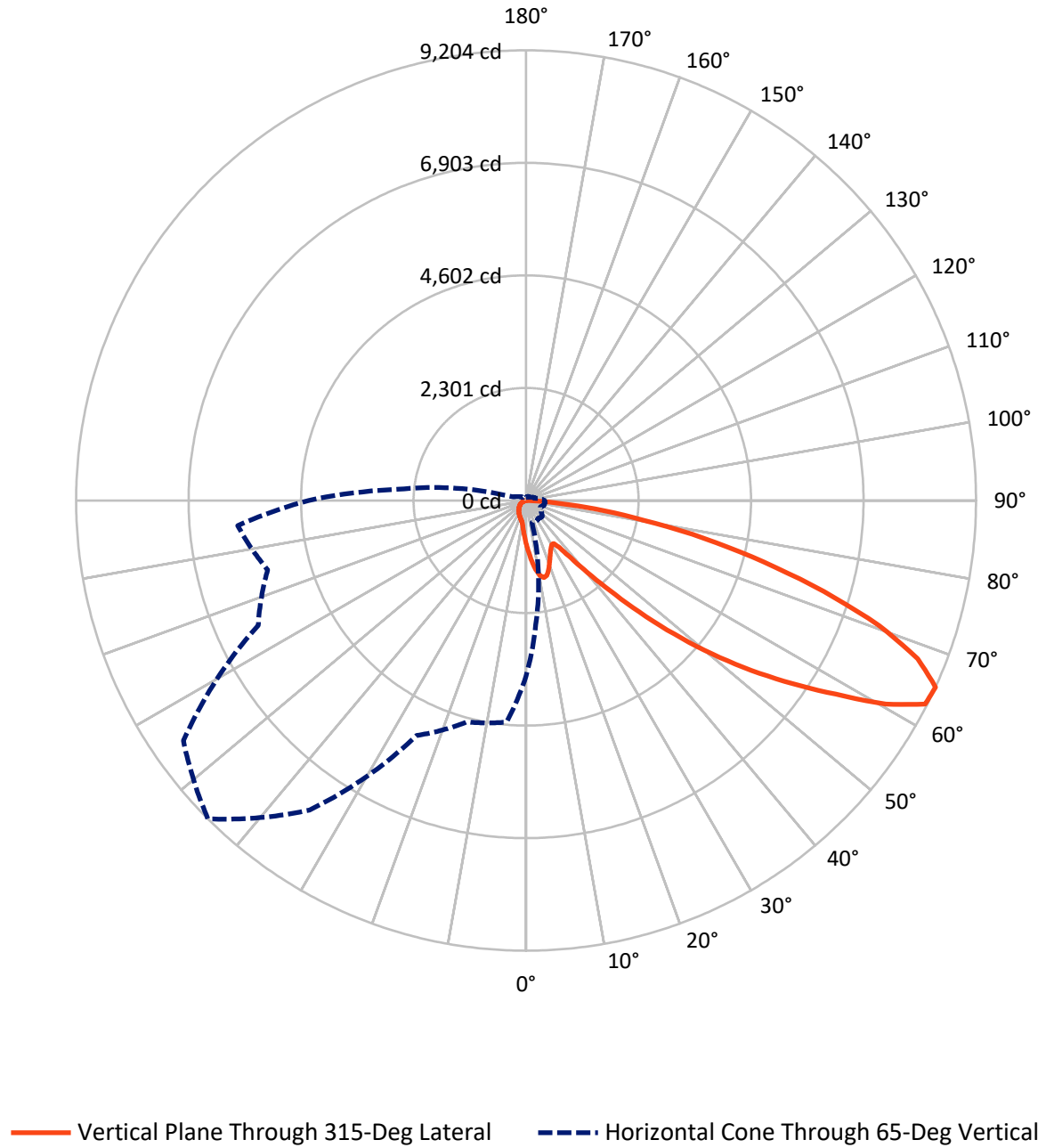
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	917.1	0.0	917.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5631.9	0.0	5631.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6549.0	0.0	6549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	1.4
10°-20°	267.6	4.1
20°-30°	394.3	6.0
30°-40°	506.5	7.7
40°-50°	819.2	12.5
50°-60°	1436.6	21.9
60°-70°	1797.6	27.4
70°-80°	1050.4	16.0
80°-90°	187.4	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°	6549.0	100.0
0°-180°	6549.0	100.0

**Coefficient of Utilization**



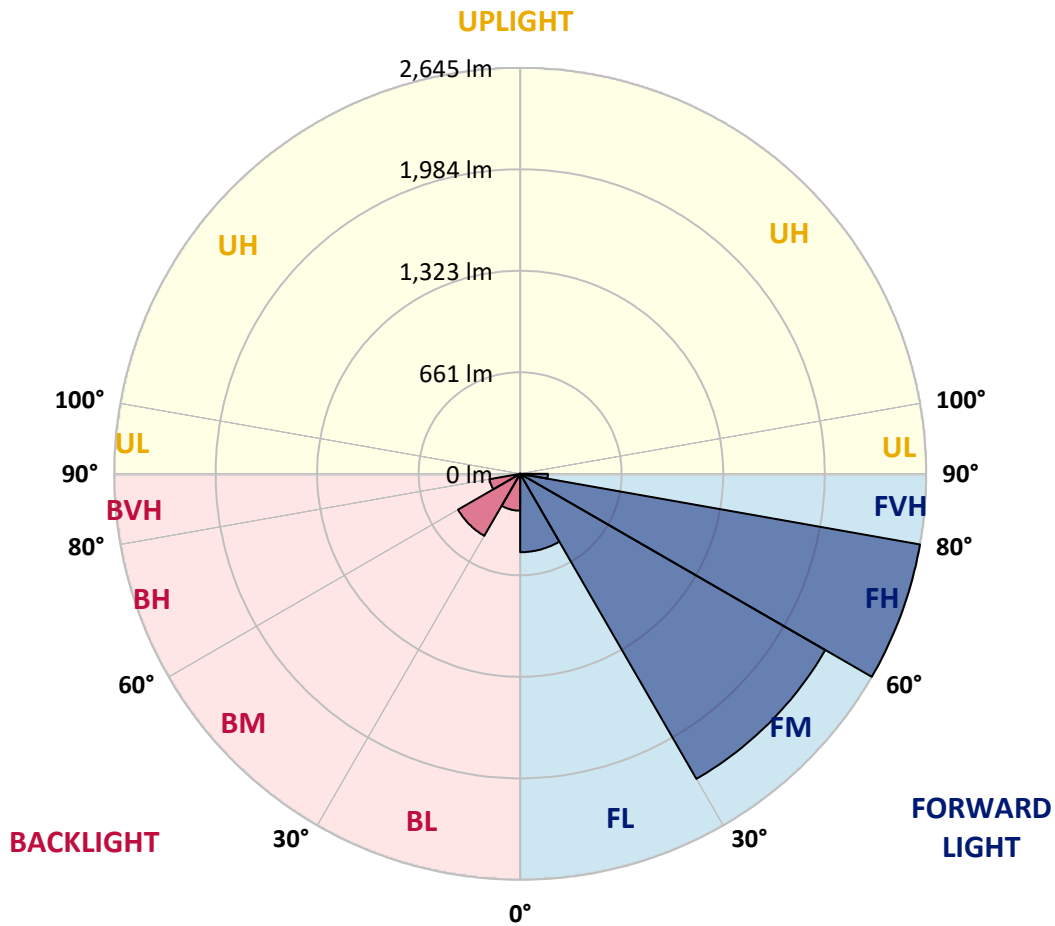
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.8	7.8			
FM (30°-60°)	2295.4	35.0			
FH (60°-80°)	2645.5	40.4			G2/5000
FVH (80°-90°)	180.2	2.8			G2/225
BL (0°-30°)	240.4	3.7	B1/500		
BM (30°-60°)	467.0	7.1	B1/1000		
BH (60°-80°)	202.5	3.1	B1/500		G1/500
BVH (80°-90°)	7.2	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°	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8
2.5°	1024.6	1007.0	996.6	970.9	945.2	924.4	896.5	878.0	855.8	834.6
5°	1141.9	1113.5	1079.2	1032.2	989.4	945.6	903.2	861.3	817.0	776.4
7.5°	1241.1	1200.1	1139.6	1077.4	1022.8	970.0	920.4	864.9	811.2	747.6
10°	1316.9	1264.6	1185.2	1103.5	1040.8	987.6	939.3	892.4	838.3	761.6
12.5°	1362.9	1307.0	1212.7	1117.1	1045.3	985.8	948.3	927.6	906.4	830.1
15°	1396.8	1336.3	1232.1	1126.5	1035.0	961.9	934.3	955.1	979.5	930.7
17.5°	1432.0	1368.4	1257.4	1130.6	1007.0	915.4	903.7	957.4	1013.8	1011.5
20°	1465.4	1402.2	1279.5	1127.9	961.9	859.0	869.4	938.0	1003.4	1030.9
22.5°	1503.7	1436.9	1300.7	1117.5	903.2	806.2	838.7	907.3	964.6	997.1
25°	1550.6	1480.7	1330.5	1102.2	840.1	762.5	807.6	871.6	918.1	940.7
27.5°	1601.2	1533.0	1370.2	1094.1	789.1	731.3	772.4	829.2	870.7	886.5
30°	1663.9	1593.9	1417.1	1085.0	755.7	713.3	735.8	780.1	820.7	836.4
32.5°	1732.4	1661.6	1462.2	1063.4	735.4	699.7	700.2	728.2	765.2	784.1
35°	1818.2	1742.8	1510.5	1016.0	719.1	684.0	665.5	679.0	709.7	732.2
37.5°	1940.4	1849.3	1569.6	948.3	695.2	659.6	628.9	632.1	655.5	680.3
40°	2109.2	1992.3	1639.1	878.0	660.9	625.3	588.8	587.4	604.6	628.9
42.5°	2337.4	2181.3	1722.5	810.7	628.0	583.8	546.4	544.1	557.6	578.8
45°	2638.8	2423.2	1824.9	753.0	602.3	543.2	506.2	505.3	516.6	535.1
47.5°	3024.6	2759.3	1927.3	713.7	588.8	511.2	473.3	475.1	485.0	501.7
50°	3524.0	3197.4	1958.5	693.9	588.8	494.0	443.9	453.0	461.1	473.7
52.5°	4122.7	3617.8	1855.6	675.8	592.4	496.3	419.1	438.5	444.4	455.2
55°	4677.6	3824.0	1595.3	651.0	593.3	510.3	397.9	426.8	437.6	441.7
57.5°	4999.7	3753.2	1289.9	609.1	589.7	519.7	384.4	412.4	433.1	435.8
60°	4938.4	3504.6	949.7	577.0	563.0	516.1	380.3	390.3	423.2	427.2
62.5°	4465.6	3087.7	659.1	552.2	504.4	500.3	379.0	355.5	401.5	411.5
65°	3589.4	2430.8	465.6	475.5	442.1	466.0	371.8	319.4	375.4	388.9
67.5°	2604.1	1644.9	336.1	385.3	400.6	410.6	355.5	293.3	345.6	363.6
70°	1671.1	888.3	236.0	254.5	337.5	348.7	327.5	269.8	315.4	336.1
72.5°	1187.9	524.7	169.6	178.2	271.1	290.5	288.3	243.6	280.2	305.4
75°	819.8	289.2	114.6	127.2	196.7	236.0	222.4	209.3	237.3	263.0
77.5°	513.9	129.5	68.6	88.4	129.0	185.4	152.5	162.0	185.0	208.9
80°	286.0	50.1	38.3	58.7	70.4	134.9	84.4	104.2	136.2	153.4
82.5°	62.3	6.3	17.1	25.3	27.5	78.5	44.7	60.5	85.7	84.4
85°	0.0	0.0	3.2	3.6	1.8	33.8	16.2	19.9	28.0	26.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°
906.8	0°	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8
815.7	2.5°	812.1	790.0	773.7	765.6	758.8	765.2	768.8	768.8	784.1	793.1
751.6	5°	735.8	696.1	665.9	645.6	633.4	637.5	642.0	647.0	666.4	679.4
713.7	7.5°	683.1	622.1	576.1	547.7	532.8	535.1	538.2	542.3	561.2	574.3
719.1	10°	673.1	585.6	520.6	483.2	465.1	462.0	460.2	458.8	470.1	480.0
780.5	12.5°	713.7	587.4	496.7	451.2	429.1	419.6	408.7	400.2	402.0	408.3
873.4	15°	786.4	610.4	489.1	434.5	406.9	391.2	378.5	368.1	365.9	368.1
954.6	17.5°	869.4	641.5	488.2	420.0	385.7	369.5	359.1	349.6	346.5	346.9
1000.2	20°	924.4	666.4	485.4	403.8	365.4	351.0	342.0	332.5	329.3	330.2
987.6	22.5°	929.8	679.4	481.4	385.7	345.1	333.0	323.9	315.4	314.9	314.9
940.2	25°	900.5	679.4	472.8	369.5	325.7	314.9	306.8	296.4	298.2	299.1
886.5	27.5°	854.9	663.2	456.6	356.4	309.0	297.8	289.6	280.2	282.4	283.8
836.4	30°	809.8	642.4	437.2	341.5	293.3	280.2	274.3	266.2	267.1	268.9
786.8	32.5°	767.9	620.3	414.2	329.3	277.5	264.4	259.9	250.8	252.2	254.0
738.1	35°	726.4	596.0	387.1	314.9	263.0	249.9	246.3	236.0	236.9	239.6
689.4	37.5°	681.7	570.3	365.0	300.5	249.0	235.5	231.9	221.1	222.0	225.1
638.8	40°	634.8	545.0	343.3	285.1	234.2	220.6	217.5	205.7	206.6	210.2
589.2	42.5°	587.4	517.5	326.6	265.3	218.8	204.4	201.2	190.4	191.7	195.8
545.9	45°	543.6	484.5	315.8	243.2	204.4	188.1	185.0	175.0	177.8	182.3
509.4	47.5°	506.2	450.7	311.3	224.7	189.0	171.4	168.7	160.6	165.1	170.1
478.2	50°	474.2	418.2	305.4	205.7	174.6	157.0	154.3	148.9	154.7	159.7
457.0	52.5°	451.2	381.2	292.8	188.6	162.0	144.8	143.9	141.2	146.6	151.1
441.2	55°	431.3	342.9	272.5	173.7	150.7	134.4	135.3	134.0	138.5	142.1
431.8	57.5°	413.3	309.5	246.8	162.0	138.5	125.4	128.1	126.3	128.6	130.8
421.8	60°	391.6	275.7	216.1	148.9	124.1	116.4	119.6	114.6	114.1	115.0
403.8	62.5°	359.6	230.1	184.1	132.6	111.4	106.5	107.8	98.4	91.1	91.1
377.2	65°	314.9	185.0	154.3	114.6	97.0	92.9	92.0	78.5	68.6	67.7
348.3	67.5°	263.0	152.0	128.1	96.5	80.8	78.1	79.0	69.0	59.1	58.2
319.4	70°	214.3	125.9	103.3	77.1	62.3	65.0	69.0	59.1	49.6	48.3
285.6	72.5°	174.1	100.2	80.8	59.1	46.0	53.7	58.7	48.3	39.3	38.3
243.6	75°	134.4	73.5	57.7	40.2	33.4	41.5	46.0	35.2	28.0	26.6
188.6	77.5°	89.8	45.6	32.5	25.3	19.9	28.4	30.7	18.5	16.2	15.8
137.2	80°	54.6	21.2	14.0	12.2	6.8	10.4	12.2	7.7	8.6	9.0
73.1	82.5°	27.5	5.9	2.3	0.5	0.0	0.0	3.6	1.8	3.6	4.5
19.9	85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3
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°
906.8	0°	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8
796.7	2.5°	822.0	841.0	859.0	887.9	917.7	947.0	976.8	1005.6	1016.0	1023.7
688.0	5°	727.3	762.9	804.4	861.7	923.1	986.2	1050.3	1108.9	1135.6	1153.6
585.6	7.5°	629.4	675.8	735.4	821.6	917.7	1018.3	1118.9	1211.4	1254.2	1289.0
489.1	10°	532.4	582.9	658.2	756.6	886.5	1030.9	1169.9	1297.1	1352.6	1396.3
419.6	12.5°	447.1	494.5	573.4	682.2	837.8	1021.0	1199.2	1352.1	1417.5	1466.7
369.9	15°	387.1	420.5	490.4	607.7	780.1	988.9	1201.0	1378.3	1450.0	1501.5
349.2	17.5°	353.7	365.0	410.6	531.9	716.0	947.0	1184.3	1387.3	1464.0	1511.8
330.7	20°	335.7	337.5	350.1	433.6	633.9	907.7	1168.5	1396.3	1477.1	1517.2
317.6	22.5°	321.2	321.2	324.4	354.6	527.9	860.8	1163.5	1412.1	1495.1	1520.0
302.7	25°	308.1	308.1	309.0	317.2	418.2	789.1	1160.4	1436.5	1520.0	1526.7
287.8	27.5°	294.6	295.1	295.1	299.6	337.0	691.6	1146.8	1468.1	1549.7	1535.7
273.4	30°	281.1	282.0	282.0	285.1	298.2	577.5	1120.2	1506.0	1588.5	1547.5
259.0	32.5°	267.5	268.4	268.4	271.1	280.6	461.1	1086.8	1540.7	1627.8	1552.4
245.0	35°	253.6	254.9	254.0	257.6	267.5	366.8	1044.4	1575.4	1670.2	1568.2
231.4	37.5°	239.6	240.5	240.0	243.6	254.9	316.7	995.3	1601.6	1727.9	1603.4
217.0	40°	225.6	225.1	225.1	229.2	241.4	302.3	933.4	1643.1	1810.9	1665.2
202.6	42.5°	211.1	211.1	210.2	214.8	229.6	291.4	874.3	1717.6	1931.9	1763.6
189.0	45°	198.1	197.6	195.8	199.9	218.4	272.5	853.6	1856.5	2110.5	1922.8
175.5	47.5°	185.4	185.0	180.5	184.1	204.8	255.4	931.2	2083.9	2358.2	2157.0
164.7	50°	174.1	174.6	166.0	169.2	191.3	242.3	1099.5	2379.0	2687.1	2472.3
155.6	52.5°	163.8	163.8	152.5	154.3	174.6	230.5	1259.6	2698.8	3121.1	2912.2
146.2	55°	153.4	152.5	139.9	140.8	157.9	213.8	1283.5	3011.0	3713.0	3574.1
135.8	57.5°	141.7	139.9	128.1	128.1	142.6	201.7	1112.6	3251.0	4447.5	4546.8
116.4	60°	127.2	125.9	118.2	115.9	130.4	212.5	785.0	3279.0	4921.2	5840.2
92.5	62.5°	108.7	110.5	106.5	103.3	118.7	220.6	465.1	3053.9	4806.6	6251.7
71.7	65°	85.7	92.9	92.0	89.8	130.4	185.9	274.8	2621.7	4455.2	5919.6
62.7	67.5°	73.1	78.1	76.7	76.7	136.7	141.2	172.8	2048.3	3971.5	5525.8
52.3	70°	62.3	67.2	62.3	62.3	103.3	85.7	119.6	1430.2	3449.6	5090.0
42.0	72.5°	51.4	56.4	51.0	47.4	82.6	64.1	87.5	893.7	2954.2	4636.1
29.8	75°	39.3	45.1	41.1	36.5	54.6	47.8	66.3	519.3	2447.5	3966.6
18.0	77.5°	24.8	32.5	30.7	25.7	40.2	34.7	47.8	309.0	1888.5	3099.5
10.8	80°	15.3	16.7	17.1	16.2	23.0	23.5	32.5	176.0	1292.6	2160.1
6.8	82.5°	9.9	9.9	7.7	8.6	11.3	13.5	18.5	66.3	759.7	1315.1
4.1	85°	7.2	6.3	4.1	4.1	5.4	6.8	7.2	20.3	308.1	519.3
1.8	87.5°	3.6	3.2	1.4	1.8	2.7	2.3	1.8	0.9	77.6	166.0
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):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
906.8	0°	906.8	906.8	906.8	906.8	906.8	906.8	906.8	906.8
1040.8	2.5°	1049.8	1063.8	1064.7	1064.7	1052.6	1052.1	1027.3	1024.6
1194.2	5°	1236.2	1245.2	1247.5	1242.9	1218.6	1200.5	1152.3	1141.9
1350.8	7.5°	1406.7	1424.8	1424.8	1413.9	1374.2	1337.2	1267.3	1241.1
1480.2	10°	1543.0	1563.7	1559.2	1537.1	1487.0	1436.0	1351.2	1316.9
1558.7	12.5°	1609.3	1630.5	1618.8	1593.5	1544.8	1491.1	1401.7	1362.9
1581.3	15°	1607.9	1602.1	1589.9	1586.7	1563.3	1522.7	1439.2	1396.8
1567.3	17.5°	1550.6	1501.0	1491.5	1523.1	1552.9	1543.0	1471.7	1432.0
1533.9	20°	1459.9	1373.3	1364.8	1425.2	1510.0	1553.3	1501.9	1465.4
1485.7	22.5°	1364.3	1270.9	1251.1	1317.8	1445.5	1556.5	1540.3	1503.7
1432.4	25°	1273.6	1179.8	1159.9	1222.2	1373.8	1551.1	1581.8	1550.6
1381.4	27.5°	1197.8	1107.1	1088.6	1150.9	1304.7	1535.7	1623.3	1601.2
1330.9	30°	1139.2	1055.3	1041.7	1101.7	1245.2	1516.8	1676.1	1663.9
1284.0	32.5°	1104.9	1043.5	1048.5	1097.7	1213.2	1496.0	1726.6	1732.4
1261.0	35°	1138.7	1141.4	1184.7	1205.0	1242.9	1492.9	1795.2	1818.2
1288.5	37.5°	1307.0	1400.8	1490.6	1473.9	1388.7	1529.4	1897.6	1940.4
1408.5	40°	1593.5	1786.1	1931.9	1868.2	1653.5	1641.3	2045.1	2109.2
1621.5	42.5°	1943.6	2270.2	2510.2	2339.7	1995.0	1837.1	2255.8	2337.4
1879.1	45°	2313.1	2867.1	3245.2	2890.6	2359.1	2111.4	2574.8	2638.8
2120.4	47.5°	2702.4	3592.6	4081.6	3501.4	2696.6	2423.6	3009.7	3024.6
2349.2	50°	3128.3	4388.0	4934.3	4111.9	3022.3	2781.4	3541.1	3524.0
2615.8	52.5°	3533.9	5205.9	5769.0	4725.0	3308.3	3225.3	4157.9	4122.7
2980.3	55°	3921.0	6023.4	6608.6	5314.2	3578.1	3811.8	4890.5	4677.6
3505.9	57.5°	4369.9	6758.3	7473.9	5906.1	3955.3	4573.4	5709.9	4999.7
4512.5	60°	5033.6	7593.4	8452.4	6717.3	4672.6	5373.7	6003.6	4938.4
5718.0	62.5°	5880.8	8361.3	9163.9	7512.2	5393.1	5524.4	5570.9	4465.6
5472.1	65°	6045.5	8555.8	9204.1	7724.7	5300.2	4686.2	4548.1	3589.4
4887.8	67.5°	5608.8	8204.3	8642.8	7329.1	4688.4	3621.4	3413.0	2604.1
4504.4	70°	5118.8	7534.3	7664.7	6656.4	4123.6	2663.6	2305.0	1671.1
4241.8	72.5°	4616.7	6640.6	6370.8	5780.7	3624.1	1939.5	1662.5	1187.9
3867.8	75°	4020.3	5465.3	5018.2	4803.0	3000.6	1522.2	1202.8	819.8
3326.8	77.5°	3219.5	3847.0	3727.5	3723.0	2254.9	1112.1	802.6	513.9
2599.1	80°	2271.1	2496.7	2435.8	2803.9	1512.7	806.7	483.2	286.0
1809.1	82.5°	1099.5	1380.5	1417.1	1669.7	735.8	474.6	111.4	62.3
707.4	85°	430.4	665.9	561.7	633.9	206.6	132.2	2.7	0.0
116.4	87.5°	48.3	77.1	70.8	55.9	25.3	5.4	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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