

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: P945448

Luminaire Tested: **GALN-SB1B-927-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945448  
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-SB1B-927-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

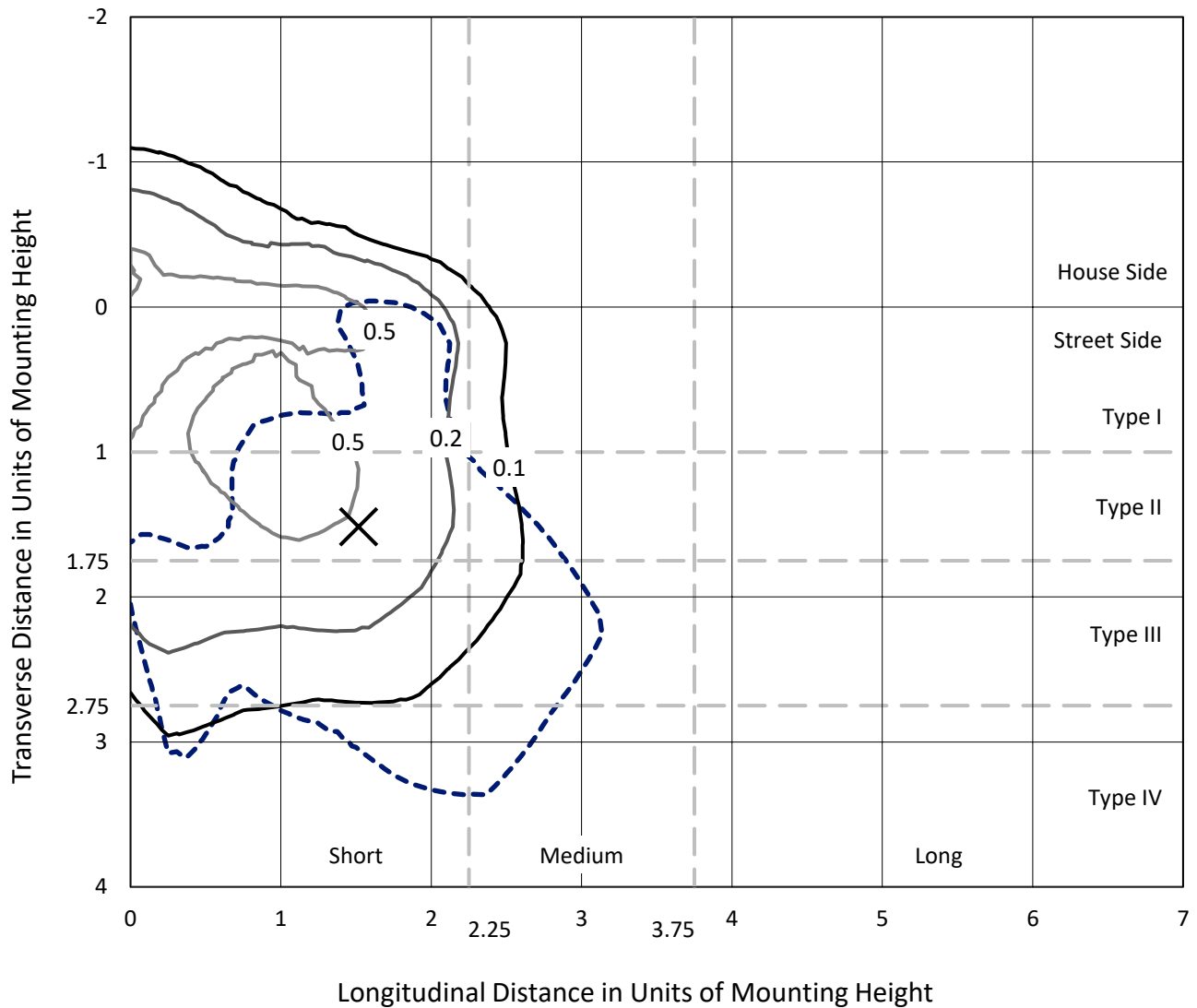
Lumens per Lamp: N/A  
Luminaire Lumens: 2617 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

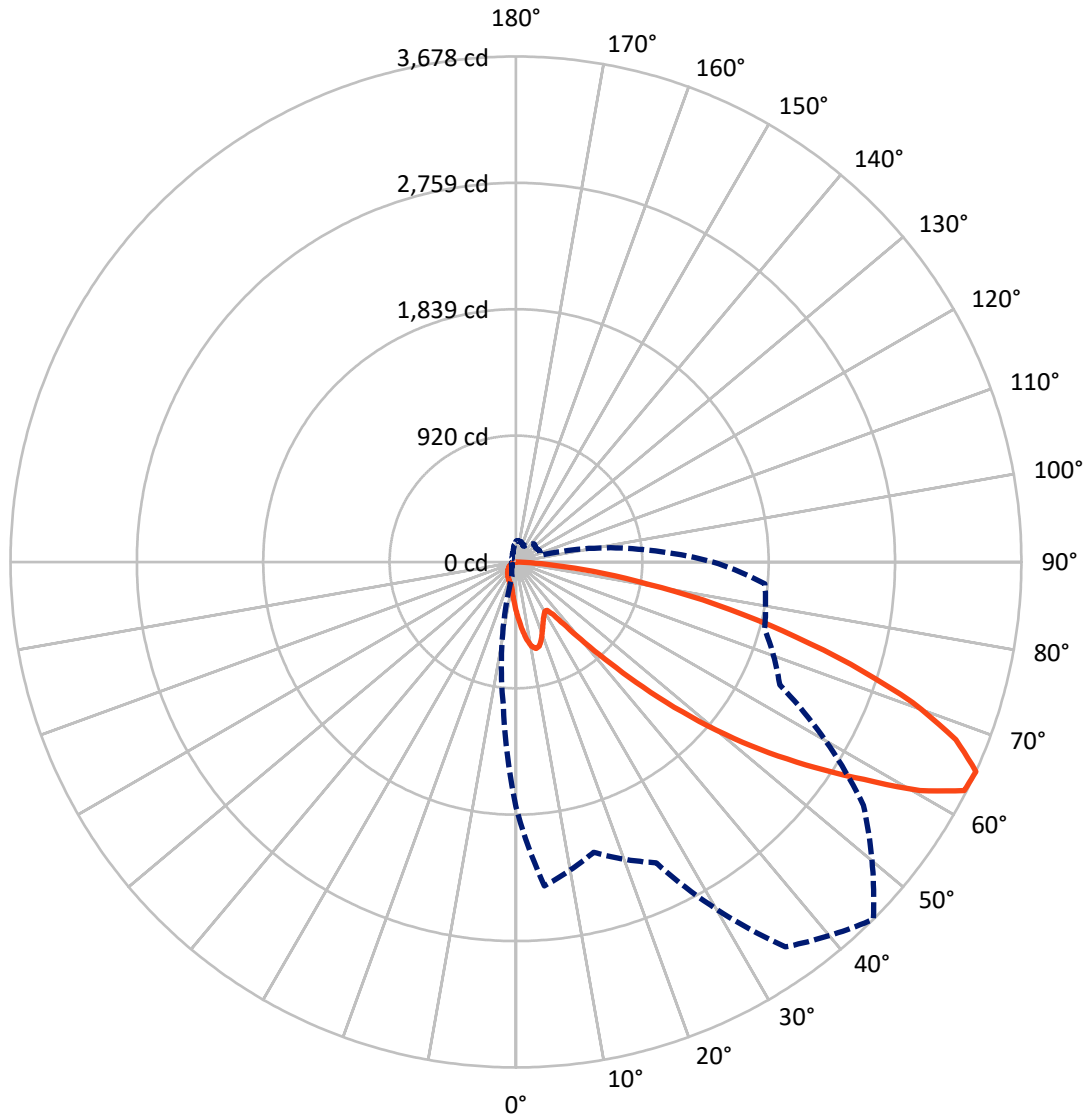
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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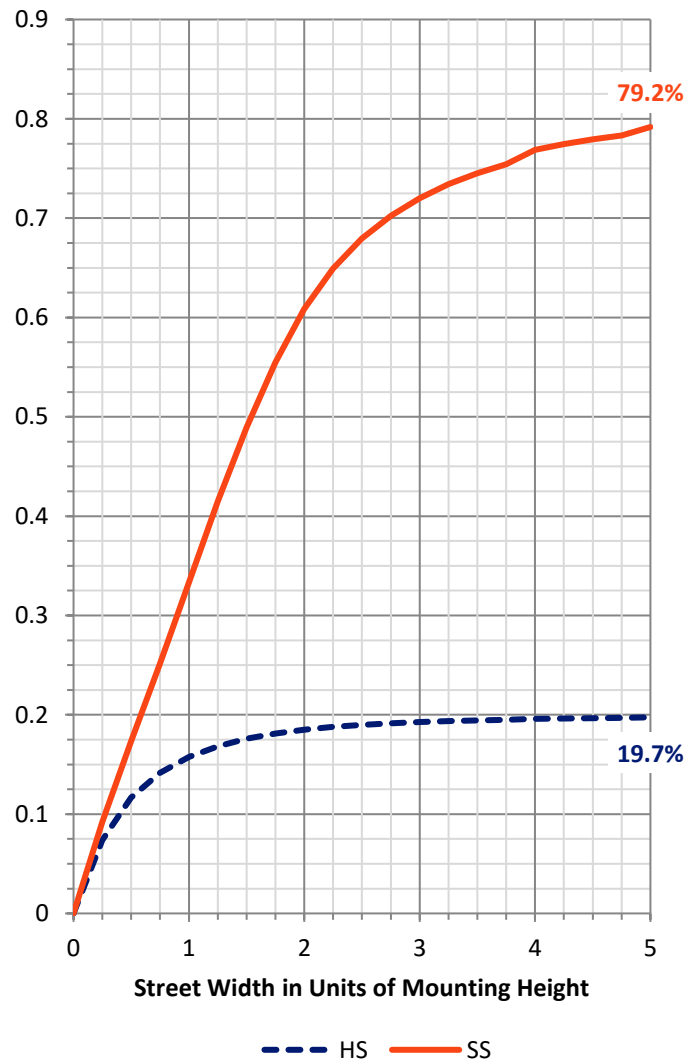
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	520.2	0.0	520.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	2096.8	0.0	2096.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	2617.0	0.0	2617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	1.4
10°-20°	106.9	4.1
20°-30°	157.6	6.0
30°-40°	202.4	7.7
40°-50°	327.4	12.5
50°-60°	574.1	21.9
60°-70°	718.3	27.4
70°-80°	419.8	16.0
80°-90°	74.9	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°	2617.0	100.0
0°-180°	2617.0	100.0

**Coefficient of Utilization**



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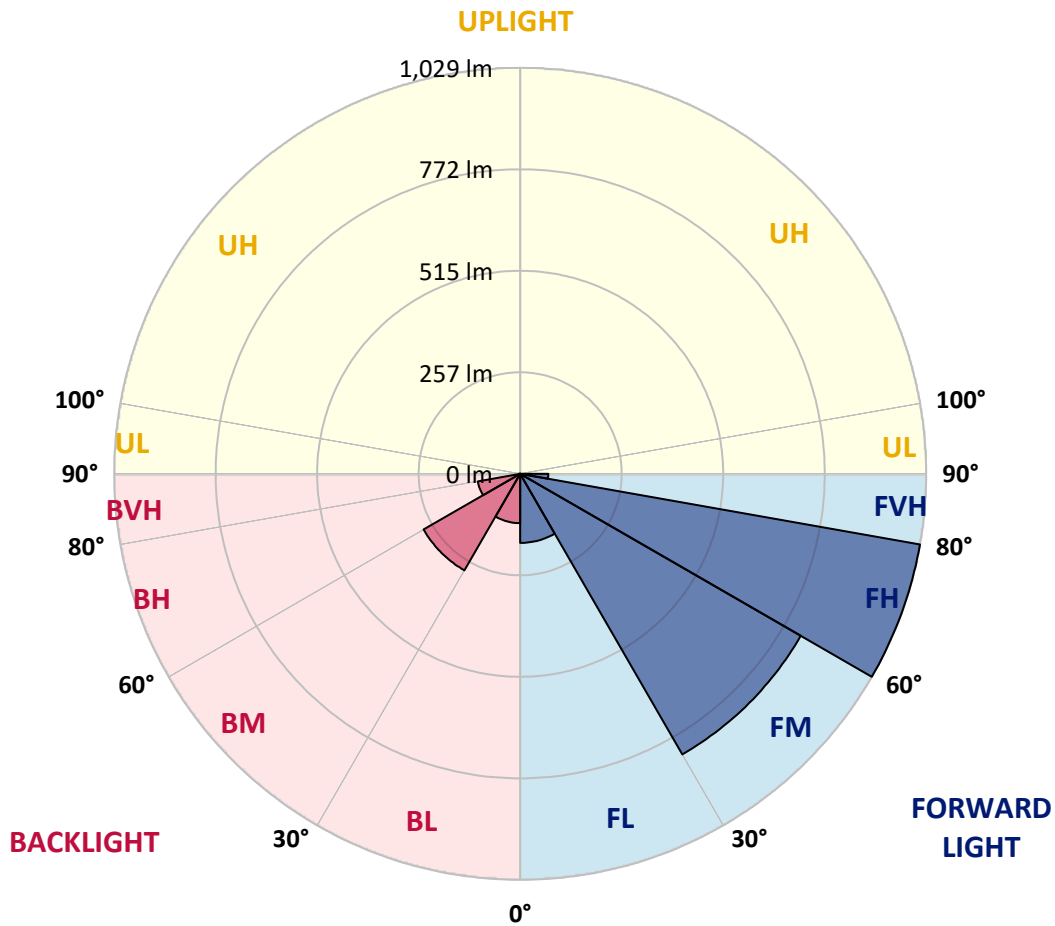
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.1	6.7			
FM (30°-60°)	821.2	31.4			
FH (60°-80°)	1029.1	39.3			G1/1800
FVH (80°-90°)	71.4	2.7			G1/100
BL (0°-30°)	125.1	4.8	B1/500		
BM (30°-60°)	282.6	10.8	B1/1000		
BH (60°-80°)	109.0	4.2	B0/110		G0/110
BVH (80°-90°)	3.5	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-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
2.5°	406.0	409.1	415.9	419.5	425.1	425.5	425.5	420.6	420.4	410.5
5°	453.8	461.0	477.2	494.0	497.6	498.5	496.7	486.9	479.7	460.4
7.5°	501.2	515.1	539.8	562.1	569.3	569.3	565.0	549.1	534.4	506.4
10°	540.5	558.0	591.5	616.6	624.9	623.1	614.2	594.2	573.8	540.0
12.5°	566.5	586.1	622.9	643.1	651.5	646.9	636.8	617.3	595.8	560.1
15°	579.4	600.0	631.9	642.5	640.2	635.3	634.1	624.7	608.5	575.1
17.5°	585.0	604.1	626.3	619.6	599.8	596.0	608.6	620.5	616.6	588.1
20°	590.2	606.3	613.0	583.4	548.8	545.4	569.5	603.4	620.7	600.2
22.5°	597.5	607.4	593.7	545.2	507.9	499.9	526.6	577.6	622.0	615.5
25°	607.4	610.1	572.4	508.9	471.4	463.5	488.4	549.0	619.8	632.1
27.5°	619.3	613.7	552.0	478.7	442.4	435.0	459.9	521.4	613.7	648.7
30°	634.8	618.4	531.8	455.2	421.7	416.3	440.3	497.6	606.1	669.8
32.5°	650.5	620.4	513.1	441.5	417.0	419.0	438.6	484.8	597.8	689.9
35°	667.4	626.7	503.9	455.0	456.1	473.4	481.5	496.7	596.6	717.3
37.5°	690.5	640.7	514.9	522.3	559.8	595.7	589.0	554.9	611.2	758.3
40°	723.7	665.4	562.8	636.8	713.7	772.0	746.6	660.7	655.9	817.2
42.5°	772.0	704.7	647.9	776.7	907.2	1003.1	935.0	797.2	734.1	901.4
45°	843.4	768.4	750.9	924.3	1145.7	1296.8	1155.1	942.7	843.7	1028.9
47.5°	942.3	861.9	847.3	1079.9	1435.6	1631.0	1399.2	1077.6	968.5	1202.7
50°	1073.8	988.0	938.7	1250.1	1753.4	1971.8	1643.1	1207.7	1111.5	1415.0
52.5°	1247.2	1163.7	1045.3	1412.2	2080.3	2305.3	1888.1	1322.0	1288.9	1661.5
55°	1483.7	1428.2	1191.0	1566.8	2407.0	2640.8	2123.6	1429.8	1523.2	1954.3
57.5°	1777.2	1816.9	1401.0	1746.2	2700.7	2986.6	2360.1	1580.5	1827.5	2281.7
60°	1966.5	2333.8	1803.2	2011.4	3034.4	3377.6	2684.2	1867.2	2147.4	2399.0
62.5°	1920.7	2498.2	2284.9	2350.0	3341.2	3661.9	3001.9	2155.1	2207.6	2226.1
65°	1780.3	2365.5	2186.7	2415.8	3418.9	3678.0	3086.8	2118.0	1872.6	1817.4
67.5°	1587.0	2208.1	1953.2	2241.3	3278.5	3453.7	2928.7	1873.5	1447.1	1363.8
70°	1378.5	2034.0	1800.0	2045.5	3010.7	3062.8	2659.9	1647.8	1064.4	921.1
72.5°	1180.5	1852.6	1695.0	1844.8	2653.6	2545.8	2310.0	1448.2	775.0	664.3
75°	978.0	1585.1	1545.6	1606.5	2184.0	2005.3	1919.3	1199.1	608.3	480.6
77.5°	754.7	1238.6	1329.4	1286.5	1537.3	1489.5	1487.7	901.1	444.4	320.7
80°	516.5	863.2	1038.6	907.5	997.7	973.4	1120.5	604.5	322.3	193.1
82.5°	303.6	525.5	722.9	439.4	551.7	566.3	667.2	294.0	189.7	44.5
85°	123.1	207.5	282.7	172.0	266.1	224.5	253.3	82.6	52.8	1.1
87.5°	31.0	66.3	46.5	19.3	30.8	28.3	22.4	10.1	2.2	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°
362.4	0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
409.4	2.5°	402.4	398.2	388.0	377.7	369.4	358.2	350.8	342.0	333.5	326.0
456.3	5°	444.9	431.2	412.5	395.4	377.9	360.9	344.2	326.5	310.3	300.4
496.0	7.5°	479.6	455.4	430.5	408.7	387.6	367.8	345.6	324.2	298.7	285.2
526.2	10°	505.3	473.6	441.0	415.9	394.6	375.4	356.6	335.0	304.3	287.4
544.6	12.5°	522.3	484.6	446.4	417.7	393.9	379.0	370.7	362.2	331.7	311.9
558.2	15°	534.0	492.4	450.2	413.6	384.4	373.4	381.7	391.4	371.9	349.0
572.2	17.5°	546.8	502.5	451.8	402.4	365.8	361.1	382.6	405.1	404.2	381.5
585.6	20°	560.3	511.3	450.7	384.4	343.3	347.4	374.8	401.0	411.9	399.7
600.9	22.5°	574.2	519.8	446.6	360.9	322.2	335.1	362.6	385.4	398.4	394.6
619.6	25°	591.7	531.7	440.4	335.7	304.7	322.7	348.3	366.9	375.9	375.7
639.8	27.5°	612.6	547.5	437.2	315.3	292.2	308.6	331.4	347.9	354.3	354.3
664.9	30°	636.9	566.3	433.6	302.0	285.0	294.0	311.7	327.9	334.2	334.2
692.3	32.5°	664.0	584.3	424.9	293.9	279.6	279.8	291.0	305.8	313.3	314.4
726.5	35°	696.4	603.6	406.0	287.4	273.3	265.9	271.3	283.6	292.6	294.9
775.4	37.5°	739.0	627.2	379.0	277.8	263.6	251.3	252.6	262.0	271.9	275.5
842.8	40°	796.1	655.0	350.8	264.1	249.9	235.3	234.7	241.6	251.3	255.3
934.1	42.5°	871.7	688.3	324.0	251.0	233.3	218.3	217.4	222.8	231.3	235.5
1054.5	45°	968.3	729.2	300.9	240.7	217.1	202.3	201.9	206.4	213.8	218.1
1208.6	47.5°	1102.6	770.2	285.2	235.3	204.3	189.1	189.8	193.8	200.5	203.5
1408.2	50°	1277.7	782.6	277.3	235.3	197.4	177.4	181.0	184.3	189.3	191.1
1647.4	52.5°	1445.7	741.5	270.1	236.7	198.3	167.5	175.2	177.6	181.9	182.6
1869.2	55°	1528.1	637.5	260.1	237.1	203.9	159.0	170.5	174.9	176.5	176.3
1997.9	57.5°	1499.8	515.4	243.4	235.6	207.7	153.6	164.8	173.1	174.2	172.5
1973.4	60°	1400.4	379.5	230.6	225.0	206.2	152.0	155.9	169.1	170.7	168.6
1784.5	62.5°	1233.9	263.4	220.7	201.6	199.9	151.4	142.1	160.5	164.4	161.4
1434.3	65°	971.4	186.1	190.0	176.7	186.2	148.6	127.6	150.0	155.4	150.7
1040.6	67.5°	657.3	134.3	154.0	160.1	164.1	142.1	117.2	138.1	145.3	139.2
667.8	70°	355.0	94.3	101.7	134.9	139.4	130.9	107.8	126.0	134.3	127.6
474.7	72.5°	209.7	67.8	71.2	108.4	116.1	115.2	97.4	112.0	122.1	114.1
327.6	75°	115.6	45.8	50.8	78.6	94.3	88.9	83.7	94.8	105.1	97.4
205.3	77.5°	51.7	27.4	35.3	51.6	74.1	60.9	64.7	73.9	83.5	75.4
114.3	80°	20.0	15.3	23.4	28.1	53.9	33.7	41.6	54.4	61.3	54.8
24.9	82.5°	2.5	6.9	10.1	11.0	31.4	17.8	24.2	34.3	33.7	29.2
0.0	85°	0.0	1.3	1.4	0.7	13.5	6.5	7.9	11.2	10.5	7.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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

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**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
362.4	0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
324.5	2.5°	315.7	309.2	305.9	303.2	305.8	307.2	307.2	313.3	316.9	318.4
294.0	5°	278.2	266.1	258.0	253.1	254.7	256.5	258.5	266.3	271.5	274.9
272.9	7.5°	248.6	230.2	218.9	212.9	213.8	215.1	216.7	224.3	229.5	234.0
269.0	10°	234.0	208.0	193.1	185.9	184.6	183.9	183.3	187.9	191.8	195.4
285.2	12.5°	234.7	198.5	180.3	171.5	167.7	163.3	159.9	160.6	163.2	167.7
314.2	15°	243.9	195.4	173.6	162.6	156.3	151.3	147.1	146.2	147.1	147.8
347.4	17.5°	256.4	195.1	167.8	154.1	147.7	143.5	139.7	138.5	138.6	139.5
369.4	20°	266.3	194.0	161.4	146.0	140.3	136.7	132.9	131.6	132.0	132.1
371.6	22.5°	271.5	192.4	154.1	137.9	133.0	129.4	126.0	125.8	125.8	126.9
359.8	25°	271.5	188.9	147.7	130.2	125.8	122.6	118.4	119.2	119.5	121.0
341.6	27.5°	265.0	182.4	142.4	123.5	119.0	115.7	112.0	112.9	113.4	115.0
323.6	30°	256.7	174.7	136.5	117.2	112.0	109.6	106.4	106.7	107.4	109.3
306.8	32.5°	247.9	165.5	131.6	110.9	105.6	103.8	100.2	100.8	101.5	103.5
290.3	35°	238.2	154.7	125.8	105.1	99.9	98.4	94.3	94.6	95.7	97.9
272.4	37.5°	227.9	145.8	120.1	99.5	94.1	92.7	88.3	88.7	90.0	92.5
253.7	40°	217.8	137.2	113.9	93.6	88.2	86.9	82.2	82.6	84.0	86.7
234.7	42.5°	206.8	130.5	106.0	87.4	81.7	80.4	76.1	76.6	78.2	80.9
217.2	45°	193.6	126.2	97.2	81.7	75.2	73.9	70.0	71.0	72.8	75.5
202.3	47.5°	180.1	124.4	89.8	75.5	68.5	67.4	64.2	66.0	68.0	70.1
189.5	50°	167.1	122.1	82.2	69.8	62.7	61.7	59.5	61.8	63.8	65.8
180.3	52.5°	152.3	117.0	75.4	64.7	57.9	57.5	56.4	58.6	60.4	62.2
172.4	55°	137.0	108.9	69.4	60.2	53.7	54.1	53.5	55.3	56.8	58.4
165.1	57.5°	123.7	98.6	64.7	55.3	50.1	51.2	50.5	51.4	52.3	54.3
156.5	60°	110.2	86.4	59.5	49.6	46.5	47.8	45.8	45.6	46.0	46.5
143.7	62.5°	91.9	73.6	53.0	44.5	42.5	43.1	39.3	36.4	36.4	37.0
125.8	65°	73.9	61.7	45.8	38.8	37.1	36.8	31.4	27.4	27.0	28.7
105.1	67.5°	60.8	51.2	38.6	32.3	31.2	31.5	27.6	23.6	23.3	25.1
85.6	70°	50.3	41.3	30.8	24.9	26.0	27.6	23.6	19.8	19.3	20.9
69.6	72.5°	40.0	32.3	23.6	18.4	21.5	23.4	19.3	15.7	15.3	16.8
53.7	75°	29.4	23.1	16.0	13.3	16.6	18.4	14.1	11.2	10.6	11.9
35.9	77.5°	18.2	13.0	10.1	7.9	11.4	12.3	7.4	6.5	6.3	7.2
21.8	80°	8.5	5.6	4.9	2.7	4.1	4.9	3.1	3.4	3.6	4.3
11.0	82.5°	2.3	0.9	0.2	0.0	0.0	1.4	0.7	1.4	1.8	2.7
0.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	1.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°
362.4	0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
328.5	2.5°	336.0	343.3	354.8	366.7	378.4	390.3	401.9	406.0
290.6	5°	304.9	321.4	344.3	368.9	394.1	419.7	443.1	453.8
251.5	7.5°	270.1	293.9	328.3	366.7	406.9	447.1	484.1	501.2
212.7	10°	232.9	263.0	302.3	354.3	411.9	467.5	518.3	540.5
178.7	12.5°	197.6	229.1	272.6	334.8	408.0	479.2	540.3	566.5
154.7	15°	168.0	196.0	242.8	311.7	395.2	479.9	550.8	579.4
141.3	17.5°	145.8	164.1	212.6	286.1	378.4	473.2	554.4	585.0
134.1	20°	134.9	139.9	173.3	253.3	362.7	466.9	558.0	590.2
128.4	22.5°	128.4	129.6	141.7	210.9	344.0	465.0	564.3	597.5
123.1	25°	123.1	123.5	126.7	167.1	315.3	463.7	574.0	607.4
117.7	27.5°	117.9	117.9	119.7	134.7	276.4	458.3	586.6	619.3
112.3	30°	112.7	112.7	113.9	119.2	230.8	447.6	601.8	634.8
106.9	32.5°	107.3	107.3	108.4	112.1	184.3	434.3	615.7	650.5
101.3	35°	101.9	101.5	102.9	106.9	146.6	417.4	629.6	667.4
95.7	37.5°	96.1	95.9	97.4	101.9	126.6	397.7	640.0	690.5
90.1	40°	90.0	90.0	91.6	96.5	120.8	373.0	656.6	723.7
84.4	42.5°	84.4	84.0	85.8	91.8	116.5	349.4	686.3	772.0
79.1	45°	79.0	78.2	79.9	87.3	108.9	341.1	741.9	843.4
74.1	47.5°	73.9	72.1	73.6	81.8	102.0	372.1	832.7	942.3
69.6	50°	69.8	66.3	67.6	76.4	96.8	439.4	950.6	1073.8
65.4	52.5°	65.4	60.9	61.7	69.8	92.1	503.4	1078.5	1247.2
61.3	55°	60.9	55.9	56.2	63.1	85.5	512.9	1203.2	1483.7
56.6	57.5°	55.9	51.2	51.2	57.0	80.6	444.6	1299.1	1777.2
50.8	60°	50.3	47.2	46.3	52.1	84.9	313.7	1310.3	1966.5
43.4	62.5°	44.2	42.5	41.3	47.4	88.2	185.9	1220.3	1920.7
34.3	65°	37.1	36.8	35.9	52.1	74.3	109.8	1047.6	1780.3
29.2	67.5°	31.2	30.6	30.6	54.6	56.4	69.0	818.5	1587.0
24.9	70°	26.9	24.9	24.9	41.3	34.3	47.8	571.5	1378.5
20.6	72.5°	22.5	20.4	18.9	33.0	25.6	35.0	357.1	1180.5
15.7	75°	18.0	16.4	14.6	21.8	19.1	26.5	207.5	978.0
9.9	77.5°	13.0	12.3	10.3	16.0	13.9	19.1	123.5	754.7
6.1	80°	6.7	6.9	6.5	9.2	9.4	13.0	70.3	516.5
4.0	82.5°	4.0	3.1	3.4	4.5	5.4	7.4	26.5	303.6
2.9	85°	2.5	1.6	1.6	2.2	2.7	2.9	8.1	123.1
1.4	87.5°	1.3	0.5	0.7	1.1	0.9	0.7	0.4	31.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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