

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: P945175

Luminaire Tested: **GALN-SB1A-950-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945175
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-SB1A-950-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 350mA 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: 2382 lumens
Efficiency: N/A
Efficacy: 77.1 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

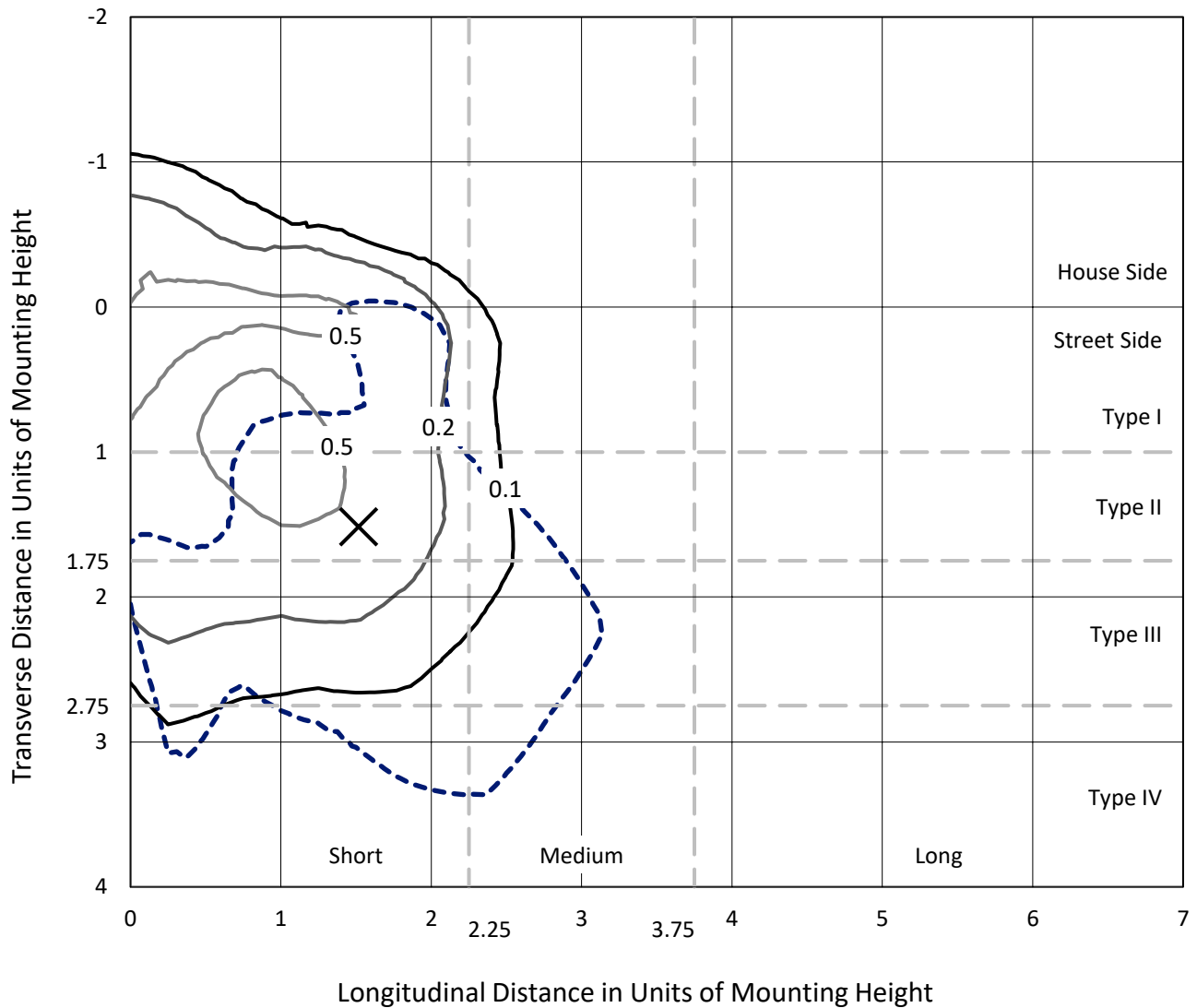
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

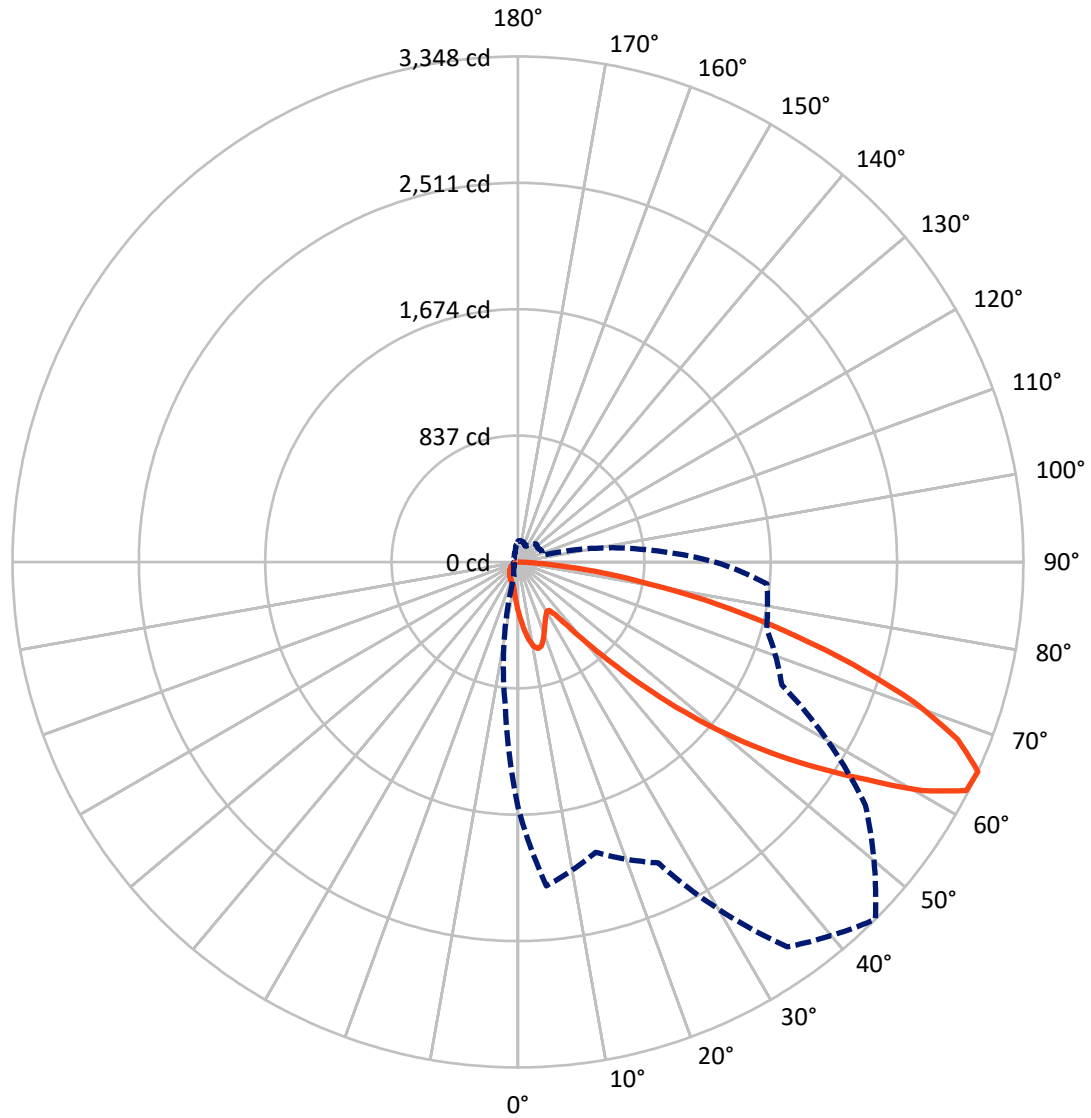
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	473.5	0.0	473.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	1908.5	0.0	1908.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	2382.0	0.0	2382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.4
10°-20°	97.3	4.1
20°-30°	143.4	6.0
30°-40°	184.2	7.7
40°-50°	298.0	12.5
50°-60°	522.5	21.9
60°-70°	653.8	27.4
70°-80°	382.1	16.0
80°-90°	68.2	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°	2382.0	100.0
0°-180°	2382.0	100.0



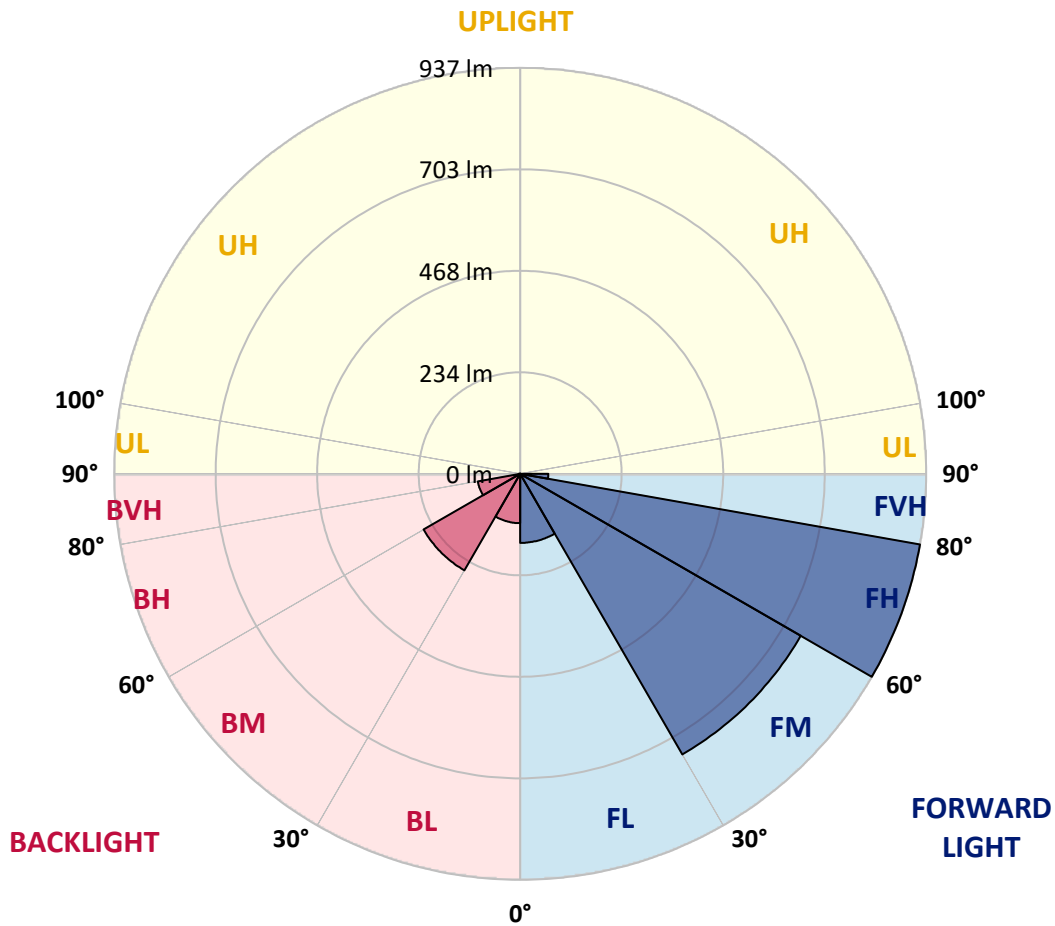
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	159.4	6.7			
FM (30°-60°)	747.5	31.4			
FH (60°-80°)	936.7	39.3			G1/1800
FVH (80°-90°)	65.0	2.7			G1/100
BL (0°-30°)	113.8	4.8	B1/500		
BM (30°-60°)	257.2	10.8	B1/1000		
BH (60°-80°)	99.2	4.2	B0/110		G0/110
BVH (80°-90°)	3.2	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
2.5°	369.5	372.3	378.6	381.8	386.9	387.3	387.3	382.8	382.7	373.6
5°	413.0	419.6	434.4	449.6	452.9	453.7	452.1	443.2	436.7	419.1
7.5°	456.2	468.8	491.3	511.6	518.2	518.2	514.3	499.8	486.4	460.9
10°	492.0	507.9	538.4	561.2	568.8	567.1	559.1	540.9	522.3	491.5
12.5°	515.6	533.5	566.9	585.3	593.0	588.8	579.6	561.9	542.3	509.8
15°	527.4	546.1	575.2	584.8	582.7	578.3	577.1	568.6	553.8	523.5
17.5°	532.5	549.9	570.1	564.0	545.9	542.5	554.0	564.8	561.2	535.3
20°	537.2	551.9	557.9	531.0	499.5	496.4	518.4	549.2	565.0	546.3
22.5°	543.8	552.8	540.4	496.2	462.3	455.0	479.3	525.8	566.1	560.2
25°	552.8	555.3	521.0	463.2	429.1	421.9	444.5	499.7	564.2	575.3
27.5°	563.7	558.6	502.5	435.7	402.7	396.0	418.6	474.6	558.6	590.4
30°	577.8	562.8	484.1	414.3	383.8	378.9	400.7	452.9	551.7	609.6
32.5°	592.1	564.7	467.0	401.9	379.6	381.4	399.2	441.3	544.1	628.0
35°	607.5	570.4	458.6	414.2	415.2	430.9	438.3	452.1	543.0	652.9
37.5°	628.5	583.2	468.7	475.4	509.5	542.2	536.1	505.1	556.3	690.2
40°	658.7	605.7	512.3	579.6	649.7	702.7	679.5	601.4	597.0	743.8
42.5°	702.7	641.4	589.8	706.9	825.7	913.0	851.0	725.6	668.2	820.5
45°	767.6	699.4	683.5	841.3	1042.8	1180.3	1051.4	858.1	768.0	936.5
47.5°	857.7	784.5	771.2	982.9	1306.7	1484.6	1273.5	980.8	881.5	1094.7
50°	977.3	899.2	854.4	1137.8	1596.0	1794.7	1495.6	1099.3	1011.6	1288.0
52.5°	1135.2	1059.2	951.4	1285.4	1893.5	2098.3	1718.6	1203.3	1173.1	1512.3
55°	1350.5	1300.0	1084.0	1426.1	2190.8	2403.7	1932.9	1301.4	1386.4	1778.8
57.5°	1617.6	1653.7	1275.2	1589.4	2458.1	2718.4	2148.2	1438.6	1663.4	2076.8
60°	1789.9	2124.2	1641.3	1830.8	2761.9	3074.3	2443.2	1699.5	1954.5	2183.6
62.5°	1748.3	2273.9	2079.7	2139.0	3041.2	3333.1	2732.3	1961.6	2009.3	2026.2
65°	1620.4	2153.1	1990.3	2198.9	3111.9	3347.7	2809.6	1927.8	1704.5	1654.2
67.5°	1444.5	2009.8	1777.8	2040.0	2984.1	3143.6	2665.7	1705.3	1317.2	1241.4
70°	1254.7	1851.3	1638.3	1861.8	2740.4	2787.8	2421.1	1499.8	968.8	838.4
72.5°	1074.5	1686.2	1542.8	1679.2	2415.3	2317.2	2102.5	1318.2	705.4	604.7
75°	890.2	1442.7	1406.8	1462.2	1987.8	1825.2	1747.0	1091.4	553.7	437.5
77.5°	686.9	1127.3	1210.0	1171.0	1399.2	1355.8	1354.1	820.1	404.5	291.9
80°	470.1	785.7	945.4	826.1	908.1	885.9	1019.8	550.2	293.4	175.7
82.5°	276.3	478.3	658.0	399.9	502.1	515.4	607.3	267.6	172.6	40.5
85°	112.1	188.9	257.3	156.5	242.2	204.3	230.6	75.2	48.1	1.0
87.5°	28.2	60.4	42.3	17.6	28.1	25.8	20.3	9.2	2.0	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
329.8	0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
372.7	2.5°	366.3	362.5	353.1	343.8	336.2	326.1	319.3	311.3	303.6	296.7
415.3	5°	405.0	392.5	375.4	359.9	343.9	328.5	313.3	297.2	282.4	273.4
451.4	7.5°	436.5	414.5	391.9	372.0	352.8	334.8	314.6	295.0	271.9	259.6
479.0	10°	460.0	431.1	401.4	378.6	359.2	341.6	324.6	304.9	277.0	261.6
495.7	12.5°	475.4	441.1	406.3	380.2	358.5	344.9	337.4	329.7	301.9	283.9
508.0	15°	486.0	448.1	409.7	376.4	349.9	339.8	347.4	356.3	338.5	317.7
520.8	17.5°	497.7	457.3	411.2	366.3	332.9	328.7	348.2	368.7	367.9	347.2
533.0	20°	510.0	465.4	410.2	349.9	312.4	316.2	341.2	364.9	375.0	363.8
546.9	22.5°	522.6	473.1	406.5	328.5	293.2	305.1	330.0	350.8	362.6	359.2
564.0	25°	538.6	483.9	400.9	305.5	277.3	293.7	317.0	333.9	342.1	342.0
582.4	27.5°	557.6	498.4	397.9	287.0	266.0	280.9	301.6	316.7	322.4	322.4
605.2	30°	579.7	515.4	394.6	274.9	259.4	267.6	283.7	298.5	304.2	304.2
630.1	32.5°	604.4	531.8	386.8	267.5	254.5	254.7	264.8	278.3	285.2	286.2
661.3	35°	633.9	549.4	369.5	261.6	248.8	242.0	247.0	258.1	266.3	268.5
705.8	37.5°	672.6	570.9	344.9	252.9	239.9	228.7	229.9	238.4	247.5	250.7
767.1	40°	724.6	596.2	319.3	240.4	227.4	214.1	213.7	219.9	228.7	232.4
850.2	42.5°	793.4	626.5	294.9	228.4	212.3	198.7	197.9	202.8	210.5	214.3
959.8	45°	881.4	663.8	273.9	219.1	197.6	184.1	183.8	187.9	194.6	198.6
1100.1	47.5°	1003.6	701.0	259.6	214.1	185.9	172.1	172.8	176.4	182.5	185.3
1281.7	50°	1162.9	712.3	252.4	214.1	179.7	161.5	164.8	167.7	172.3	173.9
1499.5	52.5°	1315.9	674.9	245.8	215.5	180.5	152.4	159.5	161.6	165.6	166.2
1701.3	55°	1390.9	580.2	236.8	215.8	185.6	144.7	155.2	159.2	160.6	160.5
1818.5	57.5°	1365.1	469.1	221.5	214.5	189.0	139.8	150.0	157.5	158.5	157.0
1796.2	60°	1274.7	345.4	209.9	204.8	187.7	138.3	141.9	153.9	155.4	153.4
1624.2	62.5°	1123.1	239.7	200.9	183.5	182.0	137.8	129.3	146.0	149.7	146.9
1305.5	65°	884.1	169.3	173.0	160.8	169.5	135.2	116.2	136.5	141.4	137.2
947.2	67.5°	598.3	122.3	140.1	145.7	149.3	129.3	106.7	125.7	132.3	126.7
607.8	70°	323.1	85.8	92.5	122.7	126.8	119.1	98.1	114.7	122.3	116.2
432.1	72.5°	190.8	61.7	64.8	98.6	105.7	104.9	88.6	101.9	111.1	103.9
298.2	75°	105.2	41.7	46.3	71.5	85.8	80.9	76.1	86.3	95.7	88.6
186.9	77.5°	47.1	24.9	32.2	46.9	67.4	55.5	58.9	67.3	76.0	68.6
104.0	80°	18.2	13.9	21.3	25.6	49.1	30.7	37.9	49.6	55.8	49.9
22.6	82.5°	2.3	6.2	9.2	10.0	28.6	16.2	22.0	31.2	30.7	26.6
0.0	85°	0.0	1.1	1.3	0.7	12.3	5.9	7.2	10.2	9.5	7.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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°
329.8	0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
295.4	2.5°	287.3	281.4	278.5	276.0	278.3	279.6	279.6	285.2	288.5	289.8
267.6	5°	253.2	242.2	234.8	230.4	231.9	233.5	235.3	242.4	247.1	250.2
248.4	7.5°	226.3	209.5	199.2	193.8	194.6	195.8	197.2	204.1	208.9	213.0
244.8	10°	213.0	189.4	175.7	169.2	168.0	167.4	166.9	171.0	174.6	177.9
259.6	12.5°	213.7	180.7	164.1	156.1	152.6	148.7	145.6	146.2	148.5	152.6
286.0	15°	222.0	177.9	158.0	148.0	142.3	137.7	133.9	133.1	133.9	134.6
316.2	17.5°	233.3	177.6	152.8	140.3	134.4	130.6	127.2	126.0	126.2	127.0
336.2	20°	242.4	176.6	146.9	132.9	127.7	124.4	120.9	119.8	120.1	120.3
338.2	22.5°	247.1	175.1	140.3	125.5	121.1	117.8	114.7	114.5	114.5	115.5
327.5	25°	247.1	172.0	134.4	118.5	114.5	111.6	107.8	108.5	108.8	110.1
311.0	27.5°	241.2	166.1	129.6	112.4	108.3	105.3	101.9	102.7	103.2	104.7
294.6	30°	233.7	159.0	124.2	106.7	101.9	99.8	96.8	97.1	97.8	99.4
279.3	32.5°	225.6	150.6	119.8	100.9	96.2	94.5	91.2	91.7	92.4	94.2
264.2	35°	216.8	140.8	114.5	95.7	90.9	89.6	85.8	86.1	87.1	89.1
247.9	37.5°	207.4	132.8	109.3	90.6	85.7	84.3	80.4	80.7	81.9	84.2
230.9	40°	198.2	124.9	103.7	85.2	80.2	79.1	74.8	75.2	76.5	78.9
213.7	42.5°	188.2	118.8	96.5	79.6	74.3	73.2	69.2	69.7	71.2	73.7
197.7	45°	176.2	114.9	88.4	74.3	68.4	67.3	63.7	64.7	66.3	68.8
184.1	47.5°	163.9	113.2	81.7	68.8	62.4	61.4	58.4	60.1	61.9	63.8
172.5	50°	152.1	111.1	74.8	63.5	57.1	56.1	54.2	56.3	58.1	59.9
164.1	52.5°	138.7	106.5	68.6	58.9	52.7	52.3	51.4	53.3	55.0	56.6
156.9	55°	124.7	99.1	63.2	54.8	48.9	49.2	48.7	50.4	51.7	53.2
150.3	57.5°	112.6	89.8	58.9	50.4	45.6	46.6	45.9	46.8	47.6	49.4
142.4	60°	100.3	78.6	54.2	45.1	42.3	43.5	41.7	41.5	41.8	42.3
130.8	62.5°	83.7	67.0	48.2	40.5	38.7	39.2	35.8	33.1	33.1	33.6
114.5	65°	67.3	56.1	41.7	35.3	33.8	33.5	28.6	24.9	24.6	26.1
95.7	67.5°	55.3	46.6	35.1	29.4	28.4	28.7	25.1	21.5	21.2	22.8
77.9	70°	45.8	37.6	28.1	22.6	23.6	25.1	21.5	18.1	17.6	19.0
63.3	72.5°	36.4	29.4	21.5	16.7	19.5	21.3	17.6	14.3	13.9	15.3
48.9	75°	26.7	21.0	14.6	12.1	15.1	16.7	12.8	10.2	9.7	10.8
32.7	77.5°	16.6	11.8	9.2	7.2	10.3	11.2	6.7	5.9	5.7	6.6
19.9	80°	7.7	5.1	4.4	2.5	3.8	4.4	2.8	3.1	3.3	3.9
10.0	82.5°	2.1	0.8	0.2	0.0	0.0	1.3	0.7	1.3	1.6	2.5
0.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.5
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°
329.8	0°	329.8	329.8	329.8	329.8	329.8	329.8	329.8	329.8
299.0	2.5°	305.9	312.4	322.9	333.8	344.4	355.3	365.8	369.5
264.5	5°	277.5	292.6	313.4	335.7	358.7	382.0	403.3	413.0
228.9	7.5°	245.8	267.5	298.8	333.8	370.4	407.0	440.6	456.2
193.6	10°	212.0	239.4	275.2	322.4	375.0	425.5	471.8	492.0
162.6	12.5°	179.8	208.6	248.1	304.7	371.3	436.2	491.8	515.6
140.8	15°	152.9	178.4	221.0	283.7	359.7	436.8	501.3	527.4
128.7	17.5°	132.8	149.3	193.5	260.4	344.4	430.7	504.6	532.5
122.1	20°	122.7	127.3	157.7	230.6	330.2	425.0	507.9	537.2
116.8	22.5°	116.8	118.0	129.0	192.0	313.1	423.2	513.6	543.8
112.1	25°	112.1	112.4	115.4	152.1	287.0	422.1	522.5	552.8
107.2	27.5°	107.3	107.3	109.0	122.6	251.6	417.1	534.0	563.7
102.2	30°	102.6	102.6	103.7	108.5	210.0	407.4	547.7	577.8
97.3	32.5°	97.6	97.6	98.6	102.1	167.7	395.3	560.4	592.1
92.2	35°	92.7	92.4	93.7	97.3	133.4	379.9	573.0	607.5
87.1	37.5°	87.5	87.3	88.6	92.7	115.2	362.0	582.5	628.5
82.0	40°	81.9	81.9	83.4	87.8	109.9	339.5	597.6	658.7
76.8	42.5°	76.8	76.5	78.1	83.5	106.0	318.0	624.7	702.7
72.0	45°	71.9	71.2	72.7	79.4	99.1	310.5	675.3	767.6
67.4	47.5°	67.3	65.6	67.0	74.5	92.9	338.7	758.0	857.7
63.3	50°	63.5	60.4	61.5	69.6	88.1	399.9	865.3	977.3
59.6	52.5°	59.6	55.5	56.1	63.5	83.9	458.2	981.6	1135.2
55.8	55°	55.5	50.9	51.2	57.4	77.8	466.9	1095.2	1350.5
51.5	57.5°	50.9	46.6	46.6	51.9	73.4	404.7	1182.5	1617.6
46.3	60°	45.8	43.0	42.2	47.4	77.3	285.5	1192.6	1789.9
39.5	62.5°	40.2	38.7	37.6	43.2	80.2	169.2	1110.8	1748.3
31.2	65°	33.8	33.5	32.7	47.4	67.6	99.9	953.6	1620.4
26.6	67.5°	28.4	27.9	27.9	49.7	51.4	62.8	745.0	1444.5
22.6	70°	24.5	22.6	22.6	37.6	31.2	43.5	520.2	1254.7
18.7	72.5°	20.5	18.5	17.2	30.0	23.3	31.8	325.1	1074.5
14.3	75°	16.4	14.9	13.3	19.9	17.4	24.1	188.9	890.2
9.0	77.5°	11.8	11.2	9.4	14.6	12.6	17.4	112.4	686.9
5.6	80°	6.1	6.2	5.9	8.4	8.5	11.8	64.0	470.1
3.6	82.5°	3.6	2.8	3.1	4.1	4.9	6.7	24.1	276.3
2.6	85°	2.3	1.5	1.5	2.0	2.5	2.6	7.4	112.1
1.3	87.5°	1.1	0.5	0.7	1.0	0.8	0.7	0.3	28.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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