

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: P945343

Luminaire Tested: **GALN-SB1B-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945343
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 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: 3738 lumens
Efficiency: N/A
Efficacy: 93.9 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

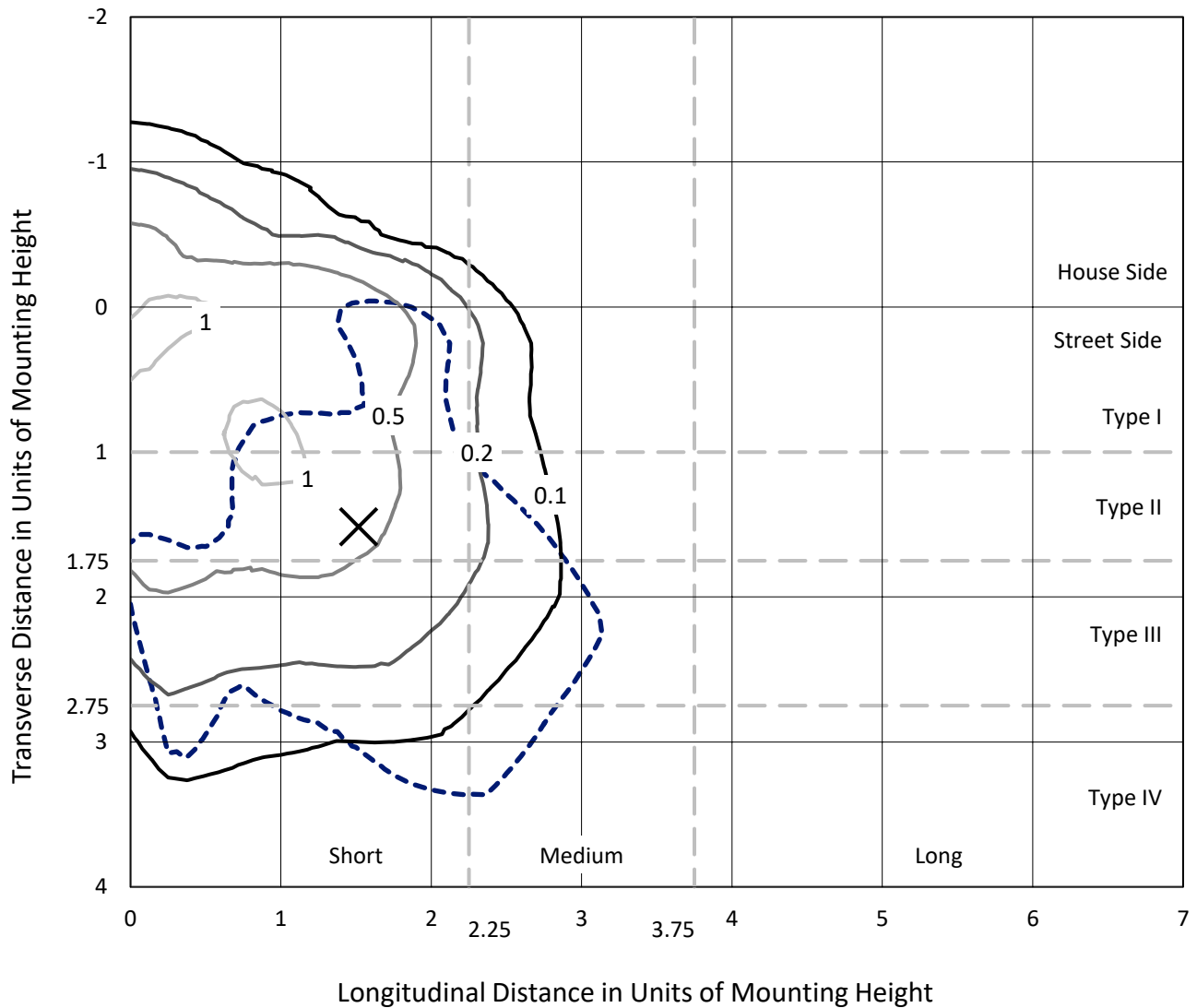
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

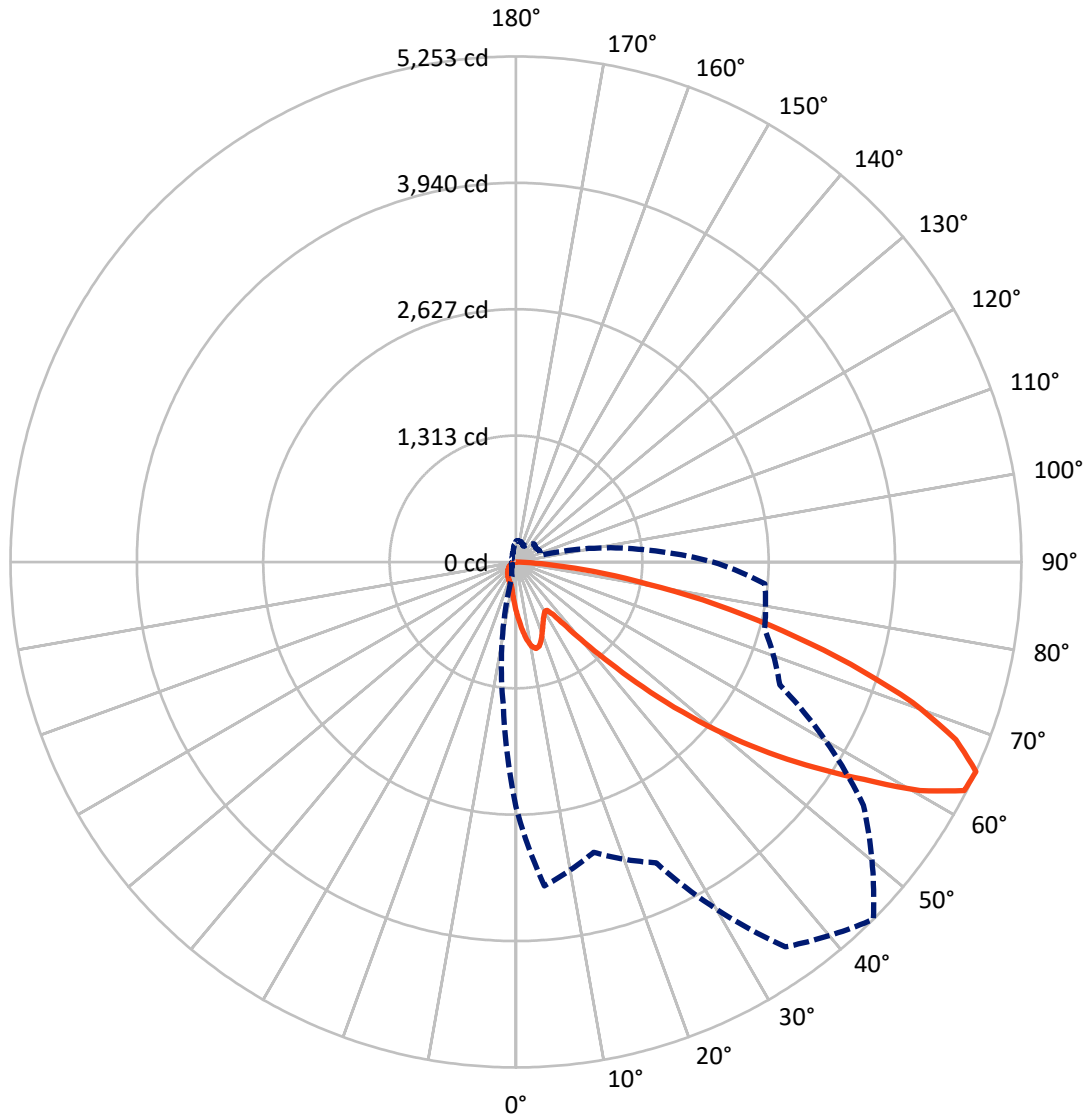
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	743.0	0.0	743.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2995.0	0.0	2995.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	3738.0	0.0	3738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	1.4
10°-20°	152.8	4.1
20°-30°	225.0	6.0
30°-40°	289.1	7.7
40°-50°	467.6	12.5
50°-60°	820.0	21.9
60°-70°	1026.0	27.4
70°-80°	599.6	16.0
80°-90°	107.0	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°	3738.0	100.0
0°-180°	3738.0	100.0

Coefficient of Utilization



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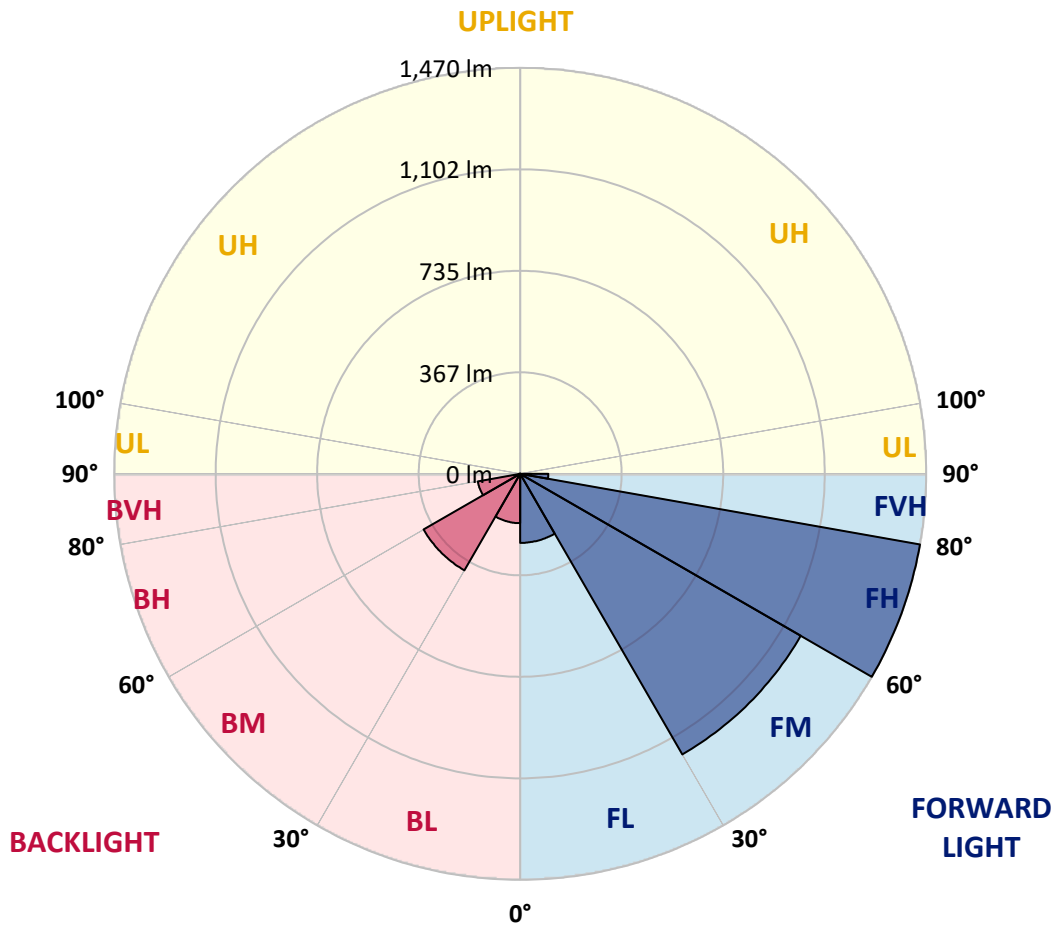
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.1	6.7			
FM (30°-60°)	1173.0	31.4			
FH (60°-80°)	1469.9	39.3			G1/1800
FVH (80°-90°)	102.0	2.7			G2/225
BL (0°-30°)	178.6	4.8	B1/500		
BM (30°-60°)	403.7	10.8	B1/1000		
BH (60°-80°)	155.7	4.2	B1/500		G1/500
BVH (80°-90°)	5.0	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°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
2.5°	579.9	584.3	594.1	599.2	607.2	607.7	607.7	600.8	600.5	586.3
5°	648.2	658.5	681.6	705.6	710.7	712.0	709.4	695.5	685.2	657.7
7.5°	715.9	735.7	771.0	802.9	813.2	813.2	807.0	784.4	763.3	723.3
10°	772.0	797.0	844.9	880.7	892.5	890.0	877.3	848.8	819.7	771.2
12.5°	809.1	837.2	889.7	918.5	930.6	923.9	909.5	881.7	851.1	800.1
15°	827.6	857.0	902.6	917.8	914.4	907.5	905.7	892.3	869.1	821.5
17.5°	835.6	862.9	894.6	885.1	856.7	851.3	869.4	886.3	880.7	840.0
20°	843.1	866.0	875.5	833.3	783.9	779.0	813.5	861.9	886.6	857.2
22.5°	853.4	867.5	848.0	778.7	725.4	714.1	752.2	825.1	888.4	879.1
25°	867.5	871.4	817.6	726.9	673.4	662.1	697.6	784.1	885.3	902.8
27.5°	884.5	876.6	788.5	683.7	631.9	621.4	656.9	744.7	876.6	926.5
30°	906.7	883.3	759.7	650.2	602.3	594.6	628.8	710.7	865.7	956.6
32.5°	929.1	886.1	732.9	630.6	595.6	598.5	626.5	692.4	853.9	985.5
35°	953.3	895.1	719.7	650.0	651.5	676.2	687.8	709.4	852.1	1024.6
37.5°	986.3	915.2	735.4	746.0	799.6	850.8	841.3	792.6	873.0	1083.1
40°	1033.6	950.5	803.9	909.5	1019.5	1102.7	1066.3	943.8	936.8	1167.3
42.5°	1102.7	1006.6	925.5	1109.3	1295.8	1432.8	1335.4	1138.7	1048.6	1287.5
45°	1204.6	1097.5	1072.5	1320.2	1636.5	1852.3	1649.9	1346.5	1205.1	1469.6
47.5°	1346.0	1231.2	1210.3	1542.5	2050.5	2329.7	1998.5	1539.1	1383.3	1717.8
50°	1533.7	1411.2	1340.9	1785.6	2504.5	2816.4	2346.9	1725.1	1587.5	2021.2
52.5°	1781.4	1662.2	1493.0	2017.1	2971.4	3292.8	2696.9	1888.3	1840.9	2373.2
55°	2119.3	2040.0	1701.1	2238.0	3438.0	3772.0	3033.2	2042.3	2175.7	2791.4
57.5°	2538.5	2595.2	2001.1	2494.2	3857.5	4265.9	3371.1	2257.6	2610.4	3259.0
60°	2808.9	3333.5	2575.6	2873.0	4334.1	4824.4	3834.1	2667.0	3067.2	3426.7
62.5°	2743.5	3568.3	3263.7	3356.6	4772.4	5230.5	4287.8	3078.3	3153.2	3179.7
65°	2542.9	3378.8	3123.3	3450.6	4883.4	5253.4	4409.1	3025.2	2674.7	2595.9
67.5°	2266.9	3154.0	2789.9	3201.4	4682.8	4933.1	4183.2	2676.0	2067.0	1948.1
70°	1968.9	2905.2	2571.0	2921.7	4300.4	4374.8	3799.3	2353.6	1520.3	1315.6
72.5°	1686.2	2646.2	2421.1	2635.1	3790.3	3636.3	3299.5	2068.6	1107.0	948.9
75°	1397.0	2264.0	2207.6	2294.7	3119.5	2864.3	2741.4	1712.7	868.8	686.5
77.5°	1077.9	1769.1	1898.9	1837.6	2195.8	2127.5	2125.0	1287.0	634.8	458.1
80°	737.8	1233.0	1483.5	1296.3	1425.1	1390.3	1600.4	863.4	460.4	275.8
82.5°	433.6	750.6	1032.6	627.5	788.0	808.8	953.0	420.0	270.9	63.6
85°	175.9	296.4	403.8	245.7	380.1	320.6	361.8	117.9	75.5	1.5
87.5°	44.3	94.8	66.4	27.6	44.0	40.4	31.9	14.4	3.1	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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
584.8	2.5°	574.8	568.8	554.2	539.5	527.6	511.7	501.1	488.5	476.4	465.6
651.8	5°	635.5	616.0	589.2	564.7	539.7	515.5	491.6	466.3	443.2	429.0
708.4	7.5°	685.0	650.5	614.9	583.8	553.6	525.3	493.6	463.0	426.7	407.4
751.7	10°	721.8	676.5	629.9	594.1	563.7	536.1	509.4	478.5	434.7	410.5
777.9	12.5°	746.0	692.2	637.6	596.6	562.7	541.3	529.4	517.3	473.8	445.5
797.2	15°	762.7	703.3	643.0	590.7	549.0	533.3	545.1	559.1	531.2	498.5
817.3	17.5°	781.0	717.7	645.3	574.8	522.5	515.8	546.4	578.6	577.3	544.9
836.4	20°	800.3	730.3	643.8	549.0	490.3	496.2	535.4	572.7	588.4	570.9
858.3	22.5°	820.2	742.4	637.9	515.5	460.2	478.7	517.9	550.6	569.1	563.7
885.1	25°	845.1	759.4	629.1	479.5	435.2	460.9	497.5	524.0	536.9	536.6
913.9	27.5°	875.0	782.1	624.5	450.4	417.4	440.9	473.3	497.0	506.0	506.0
949.7	30°	909.8	808.8	619.3	431.3	407.1	420.0	445.2	468.4	477.4	477.4
988.8	32.5°	948.4	834.6	606.9	419.7	399.4	399.7	415.6	436.7	447.6	449.1
1037.8	35°	994.8	862.1	579.9	410.5	390.4	379.8	387.6	405.1	417.9	421.3
1107.5	37.5°	1055.5	895.9	541.3	396.8	376.5	359.0	360.8	374.2	388.3	393.5
1203.9	40°	1137.2	935.5	501.1	377.3	356.9	336.0	335.3	345.1	359.0	364.6
1334.2	42.5°	1245.1	983.2	462.7	358.5	333.2	311.8	310.6	318.3	330.4	336.3
1506.2	45°	1383.1	1041.6	429.8	343.8	310.0	288.9	288.4	294.8	305.4	311.6
1726.3	47.5°	1574.9	1100.1	407.4	336.0	291.8	270.1	271.2	276.8	286.4	290.7
2011.4	50°	1825.0	1117.8	396.0	336.0	282.0	253.4	258.5	263.2	270.4	273.0
2353.1	52.5°	2065.0	1059.1	385.7	338.1	283.3	239.2	250.3	253.6	259.8	260.9
2669.9	55°	2182.6	910.6	371.6	338.6	291.2	227.1	243.6	249.8	252.1	251.8
2853.7	57.5°	2142.2	736.2	347.6	336.6	296.7	219.4	235.4	247.2	248.8	246.4
2818.7	60°	2000.3	542.1	329.4	321.4	294.6	217.1	222.7	241.5	243.9	240.8
2548.8	62.5°	1762.4	376.2	315.2	287.9	285.6	216.3	202.9	229.2	234.8	230.5
2048.7	65°	1387.5	265.7	271.4	252.4	266.0	212.2	182.3	214.2	222.0	215.3
1486.3	67.5°	938.9	191.8	219.9	228.7	234.3	202.9	167.4	197.3	207.6	198.8
953.8	70°	507.0	134.7	145.2	192.6	199.1	187.0	154.0	180.0	191.8	182.3
678.0	72.5°	299.5	96.8	101.7	154.8	165.8	164.5	139.1	159.9	174.3	163.0
467.9	75°	165.1	65.4	72.6	112.3	134.7	127.0	119.5	135.4	150.1	139.1
293.3	77.5°	73.9	39.1	50.5	73.6	105.8	87.0	92.4	105.6	119.2	107.6
163.3	80°	28.6	21.9	33.5	40.2	77.0	48.2	59.5	77.8	87.6	78.3
35.5	82.5°	3.6	9.8	14.4	15.7	44.8	25.5	34.5	48.9	48.2	41.7
0.0	85°	0.0	1.8	2.1	1.0	19.3	9.3	11.3	16.0	14.9	11.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
463.5	2.5°	450.9	441.6	437.0	433.1	436.7	438.8	438.8	447.6	452.7	454.8
420.0	5°	397.3	380.1	368.5	361.5	363.9	366.4	369.3	380.3	387.8	392.7
389.9	7.5°	355.1	328.8	312.6	304.1	305.4	307.2	309.5	320.3	327.8	334.2
384.2	10°	334.2	297.2	275.8	265.5	263.7	262.7	261.9	268.3	274.0	279.1
407.4	12.5°	335.3	283.5	257.5	244.9	239.5	233.3	228.4	229.4	233.0	239.5
448.8	15°	348.4	279.1	248.0	232.3	223.3	216.1	210.1	208.8	210.1	211.2
496.2	17.5°	366.2	278.6	239.7	220.2	210.9	205.0	199.6	197.8	198.0	199.3
527.6	20°	380.3	277.1	230.5	208.6	200.3	195.2	189.8	188.0	188.5	188.8
530.7	22.5°	387.8	274.8	220.2	197.0	190.0	184.9	180.0	179.7	179.7	181.3
514.0	25°	387.8	269.9	210.9	185.9	179.7	175.1	169.2	170.2	170.7	172.8
488.0	27.5°	378.5	260.6	203.4	176.4	170.0	165.3	159.9	161.2	162.0	164.3
462.2	30°	366.7	249.5	194.9	167.4	159.9	156.6	151.9	152.4	153.5	156.1
438.3	32.5°	354.1	236.4	188.0	158.4	150.9	148.3	143.2	143.9	145.0	147.8
414.6	35°	340.2	220.9	179.7	150.1	142.7	140.6	134.7	135.2	136.7	139.8
389.1	37.5°	325.5	208.3	171.5	142.1	134.4	132.4	126.2	126.7	128.5	132.1
362.3	40°	311.1	196.0	162.7	133.6	125.9	124.1	117.4	117.9	120.0	123.9
335.3	42.5°	295.4	186.4	151.4	124.9	116.7	114.8	108.7	109.4	111.8	115.6
310.3	45°	276.6	180.3	138.8	116.7	107.4	105.6	99.9	101.5	104.0	107.9
288.9	47.5°	257.3	177.7	128.2	107.9	97.9	96.3	91.7	94.2	97.1	100.2
270.6	50°	238.7	174.3	117.4	99.7	89.6	88.1	85.0	88.3	91.2	94.0
257.5	52.5°	217.6	167.1	107.6	92.4	82.7	82.1	80.6	83.7	86.3	88.8
246.2	55°	195.7	155.5	99.1	86.0	76.7	77.3	76.5	79.1	81.1	83.4
235.9	57.5°	176.7	140.9	92.4	79.1	71.6	73.1	72.1	73.4	74.7	77.5
223.5	60°	157.3	123.3	85.0	70.8	66.4	68.2	65.4	65.1	65.7	66.4
205.2	62.5°	131.3	105.1	75.7	63.6	60.8	61.5	56.1	52.0	52.0	52.8
179.7	65°	105.6	88.1	65.4	55.4	53.0	52.5	44.8	39.1	38.6	40.9
150.1	67.5°	86.8	73.1	55.1	46.1	44.5	45.1	39.4	33.7	33.2	35.8
122.3	70°	71.8	59.0	44.0	35.5	37.1	39.4	33.7	28.3	27.6	29.9
99.4	72.5°	57.2	46.1	33.7	26.3	30.6	33.5	27.6	22.4	21.9	23.9
76.7	75°	42.0	33.0	22.9	19.1	23.7	26.3	20.1	16.0	15.2	17.0
51.2	77.5°	26.0	18.5	14.4	11.3	16.2	17.5	10.6	9.3	9.0	10.3
31.2	80°	12.1	8.0	7.0	3.9	5.9	7.0	4.4	4.9	5.2	6.2
15.7	82.5°	3.3	1.3	0.3	0.0	0.0	2.1	1.0	2.1	2.6	3.9
1.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
469.2	2.5°	480.0	490.3	506.8	523.8	540.5	557.5	574.0	579.9
415.1	5°	435.4	459.1	491.8	526.9	562.9	599.5	633.0	648.2
359.2	7.5°	385.7	419.7	468.9	523.8	581.2	638.6	691.4	715.9
303.9	10°	332.7	375.7	431.8	506.0	588.4	667.7	740.3	772.0
255.2	12.5°	282.2	327.3	389.4	478.2	582.7	684.5	771.8	809.1
220.9	15°	240.0	279.9	346.9	445.2	564.5	685.5	786.7	827.6
201.9	17.5°	208.3	234.3	303.6	408.7	540.5	676.0	791.8	835.6
191.6	20°	192.6	199.8	247.5	361.8	518.1	666.9	797.0	843.1
183.3	22.5°	183.3	185.1	202.4	301.3	491.3	664.1	806.0	853.4
175.9	25°	175.9	176.4	181.0	238.7	450.4	662.3	819.9	867.5
168.2	27.5°	168.4	168.4	171.0	192.4	394.8	654.6	837.9	884.5
160.4	30°	160.9	160.9	162.7	170.2	329.6	639.4	859.6	906.7
152.7	32.5°	153.2	153.2	154.8	160.2	263.2	620.3	879.4	929.1
144.7	35°	145.5	145.0	147.0	152.7	209.4	596.1	899.2	953.3
136.7	37.5°	137.3	137.0	139.1	145.5	180.8	568.1	914.2	986.3
128.8	40°	128.5	128.5	130.8	137.8	172.5	532.8	937.8	1033.6
120.5	42.5°	120.5	120.0	122.6	131.1	166.4	499.1	980.3	1102.7
113.0	45°	112.8	111.8	114.1	124.6	155.5	487.2	1059.7	1204.6
105.8	47.5°	105.6	103.0	105.1	116.9	145.8	531.5	1189.4	1346.0
99.4	50°	99.7	94.8	96.6	109.2	138.3	627.5	1357.8	1533.7
93.5	52.5°	93.5	87.0	88.1	99.7	131.6	719.0	1540.4	1781.4
87.6	55°	87.0	79.8	80.3	90.1	122.1	732.6	1718.6	2119.3
80.9	57.5°	79.8	73.1	73.1	81.4	115.1	635.0	1855.6	2538.5
72.6	60°	71.8	67.5	66.2	74.4	121.3	448.1	1871.6	2808.9
62.1	62.5°	63.1	60.8	59.0	67.7	125.9	265.5	1743.1	2743.5
48.9	65°	53.0	52.5	51.2	74.4	106.1	156.8	1496.4	2542.9
41.7	67.5°	44.5	43.8	43.8	78.0	80.6	98.6	1169.1	2266.9
35.5	70°	38.4	35.5	35.5	59.0	48.9	68.2	816.3	1968.9
29.4	72.5°	32.2	29.1	27.0	47.1	36.6	50.0	510.1	1686.2
22.4	75°	25.8	23.4	20.9	31.2	27.3	37.9	296.4	1397.0
14.2	77.5°	18.5	17.5	14.7	22.9	19.8	27.3	176.4	1077.9
8.8	80°	9.5	9.8	9.3	13.1	13.4	18.5	100.4	737.8
5.7	82.5°	5.7	4.4	4.9	6.4	7.7	10.6	37.9	433.6
4.1	85°	3.6	2.3	2.3	3.1	3.9	4.1	11.6	175.9
2.1	87.5°	1.8	0.8	1.0	1.5	1.3	1.0	0.5	44.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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