

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: P944946

Luminaire Tested: **GALN-SB1A-750-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944946
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-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3623 lumens
Efficiency: N/A
Efficacy: 117.2 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

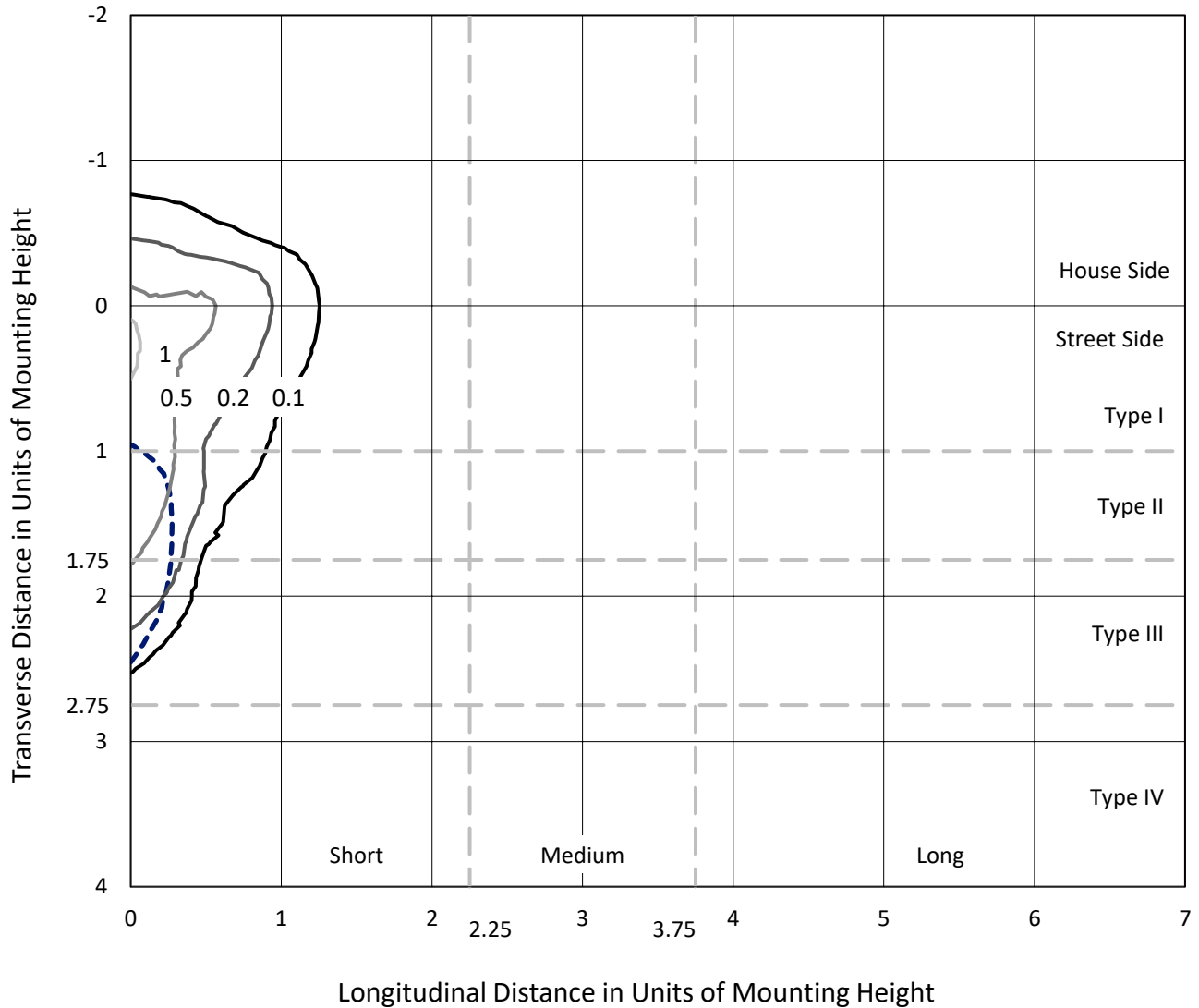
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

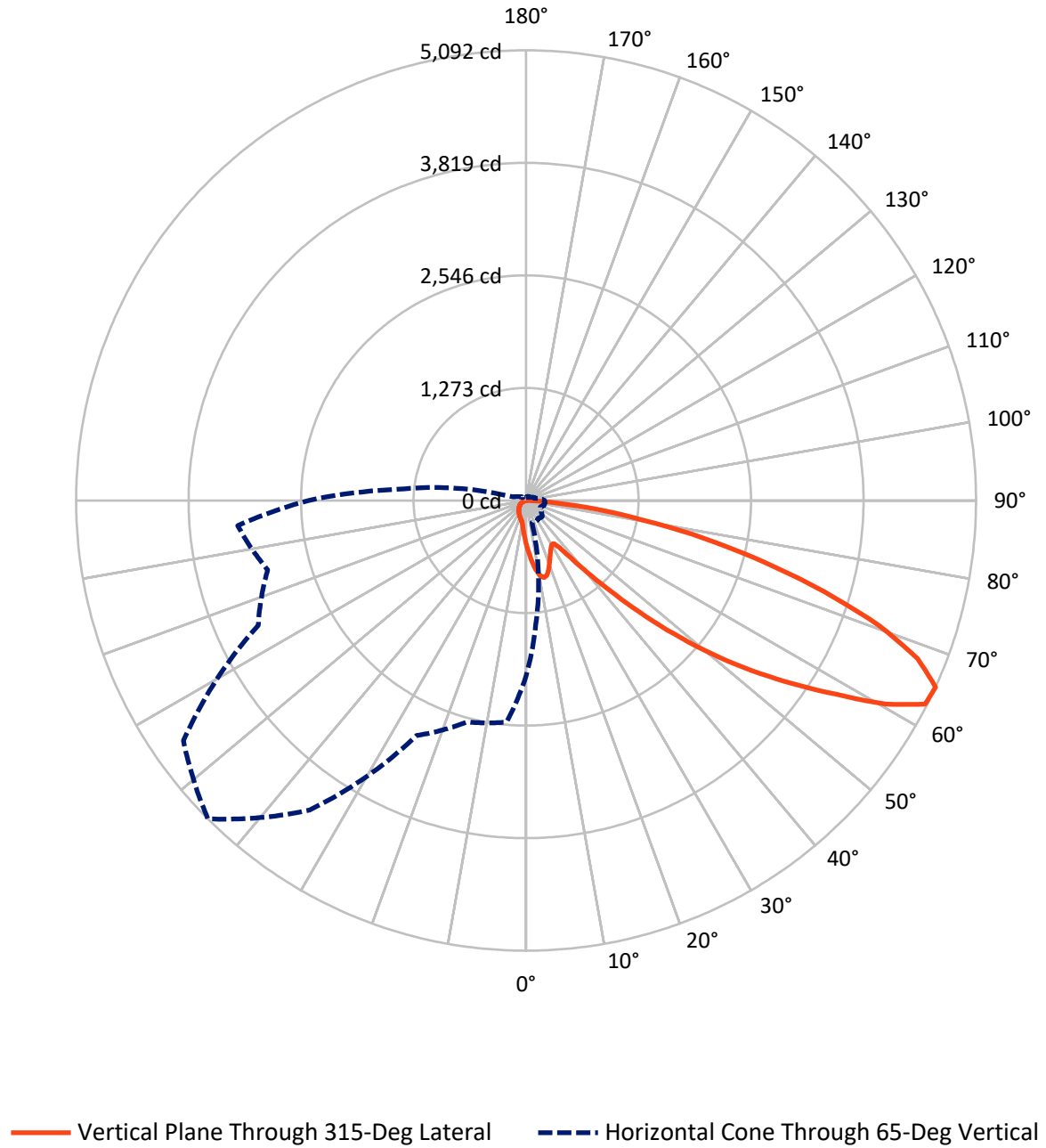
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	507.4	0.0	507.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3115.6	0.0	3115.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	3623.0	0.0	3623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.4
10°-20°	148.1	4.1
20°-30°	218.1	6.0
30°-40°	280.2	7.7
40°-50°	453.2	12.5
50°-60°	794.7	21.9
60°-70°	994.4	27.4
70°-80°	581.1	16.0
80°-90°	103.7	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°	3623.0	100.0
0°-180°	3623.0	100.0

Coefficient of Utilization



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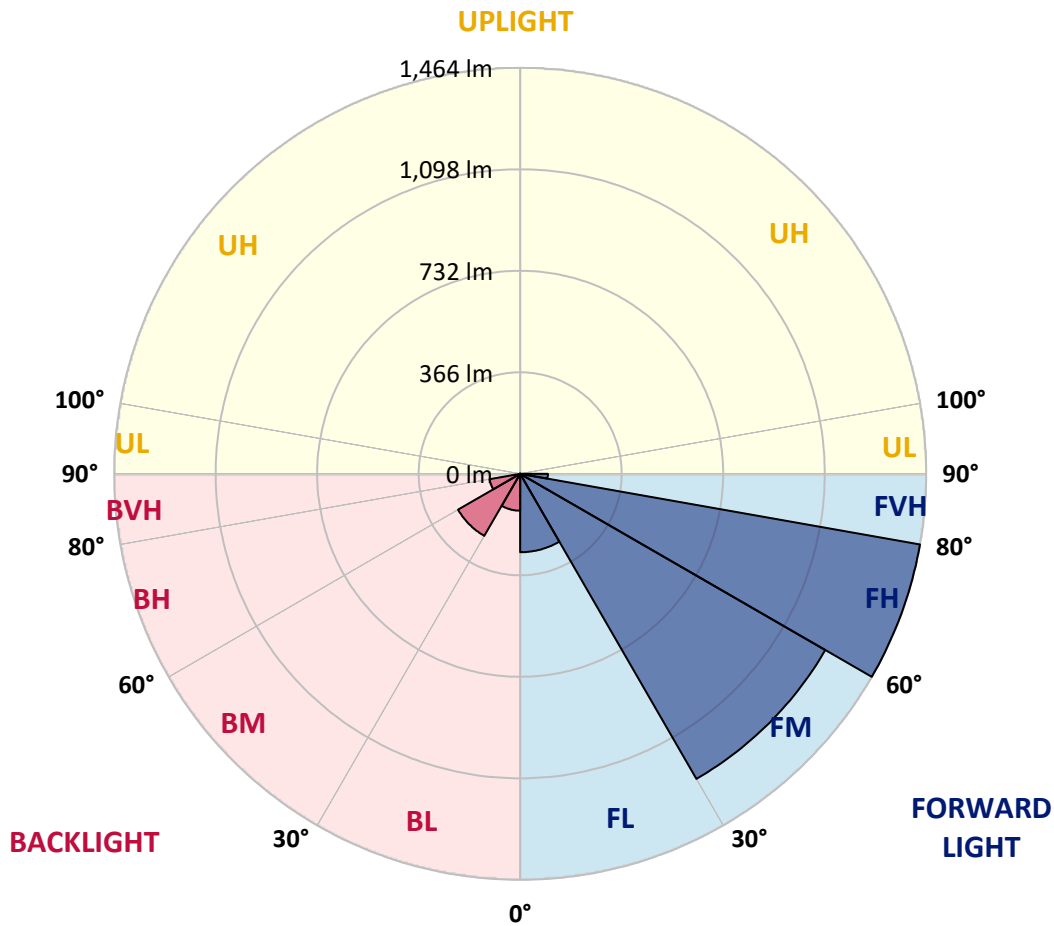
CATALOG NUMBER: GALN-SB1A-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.6	7.8			
FM (30°-60°)	1269.8	35.0			
FH (60°-80°)	1463.5	40.4			G1/1800
FVH (80°-90°)	99.7	2.8			G1/100
BL (0°-30°)	133.0	3.7	B1/500		
BM (30°-60°)	258.4	7.1	B1/1000		
BH (60°-80°)	112.0	3.1	B1/500		G1/500
BVH (80°-90°)	4.0	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
2.5°	566.8	557.1	551.3	537.1	522.9	511.4	495.9	485.7	473.5	461.7
5°	631.7	616.0	597.0	571.1	547.3	523.1	499.7	476.5	452.0	429.5
7.5°	686.6	663.9	630.5	596.0	565.8	536.6	509.2	478.5	448.8	413.6
10°	728.5	699.6	655.7	610.5	575.8	546.3	519.6	493.7	463.7	421.3
12.5°	754.0	723.1	670.9	618.0	578.3	545.3	524.6	513.2	501.4	459.2
15°	772.7	739.3	681.6	623.2	572.6	532.1	516.9	528.4	541.9	514.9
17.5°	792.2	757.0	695.6	625.5	557.1	506.4	499.9	529.6	560.8	559.6
20°	810.7	775.7	707.8	624.0	532.1	475.2	481.0	518.9	555.1	570.3
22.5°	831.9	794.9	719.6	618.2	499.7	446.0	464.0	501.9	533.6	551.6
25°	857.8	819.1	736.0	609.7	464.7	421.8	446.8	482.2	507.9	520.4
27.5°	885.8	848.1	758.0	605.2	436.5	404.6	427.3	458.7	481.7	490.4
30°	920.5	881.8	784.0	600.3	418.1	394.6	407.1	431.5	454.0	462.7
32.5°	958.4	919.2	808.9	588.3	406.8	387.1	387.4	402.8	423.3	433.8
35°	1005.8	964.2	835.6	562.1	397.8	378.4	368.1	375.6	392.6	405.1
37.5°	1073.5	1023.1	868.3	524.6	384.6	364.9	347.9	349.7	362.6	376.4
40°	1166.8	1102.2	906.7	485.7	365.6	345.9	325.7	325.0	334.4	347.9
42.5°	1293.1	1206.8	952.9	448.5	347.4	323.0	302.2	301.0	308.5	320.2
45°	1459.8	1340.5	1009.6	416.6	333.2	300.5	280.0	279.5	285.8	296.0
47.5°	1673.2	1526.5	1066.2	394.8	325.7	282.8	261.8	262.8	268.3	277.5
50°	1949.5	1768.8	1083.5	383.9	325.7	273.3	245.6	250.6	255.1	262.1
52.5°	2280.7	2001.4	1026.6	373.9	327.7	274.5	231.9	242.6	245.8	251.8
55°	2587.7	2115.5	882.5	360.2	328.2	282.3	220.1	236.1	242.1	244.3
57.5°	2765.9	2076.3	713.6	336.9	326.2	287.5	212.6	228.1	239.6	241.1
60°	2732.0	1938.8	525.4	319.2	311.5	285.5	210.4	215.9	234.1	236.4
62.5°	2470.4	1708.2	364.6	305.5	279.0	276.8	209.7	196.7	222.1	227.6
65°	1985.7	1344.8	257.6	263.1	244.6	257.8	205.7	176.7	207.7	215.1
67.5°	1440.6	910.0	185.9	213.1	221.6	227.1	196.7	162.2	191.2	201.2
70°	924.5	491.4	130.5	140.8	186.7	192.9	181.2	149.3	174.5	185.9
72.5°	657.2	290.3	93.8	98.6	150.0	160.7	159.5	134.8	155.0	169.0
75°	453.5	160.0	63.4	70.4	108.8	130.5	123.0	115.8	131.3	145.5
77.5°	284.3	71.6	37.9	48.9	71.4	102.6	84.4	89.6	102.3	115.6
80°	158.2	27.7	21.2	32.4	38.9	74.6	46.7	57.7	75.4	84.9
82.5°	34.4	3.5	9.5	14.0	15.2	43.4	24.7	33.4	47.4	46.7
85°	0.0	0.0	1.7	2.0	1.0	18.7	9.0	11.0	15.5	14.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
451.3	2.5°	449.3	437.0	428.0	423.5	419.8	423.3	425.3	425.3	433.8	438.8
415.8	5°	407.1	385.1	368.4	357.2	350.4	352.7	355.2	357.9	368.6	375.9
394.8	7.5°	377.9	344.2	318.7	303.0	294.8	296.0	297.8	300.0	310.5	317.7
397.8	10°	372.4	324.0	288.0	267.3	257.3	255.6	254.6	253.8	260.1	265.6
431.8	12.5°	394.8	325.0	274.8	249.6	237.4	232.1	226.1	221.4	222.4	225.9
483.2	15°	435.0	337.7	270.6	240.4	225.1	216.4	209.4	203.7	202.4	203.7
528.1	17.5°	481.0	354.9	270.1	232.4	213.4	204.4	198.7	193.4	191.7	191.9
553.3	20°	511.4	368.6	268.6	223.4	202.2	194.2	189.2	183.9	182.2	182.7
546.3	22.5°	514.4	375.9	266.3	213.4	190.9	184.2	179.2	174.5	174.2	174.2
520.1	25°	498.2	375.9	261.6	204.4	180.2	174.2	169.7	164.0	165.0	165.5
490.4	27.5°	473.0	366.9	252.6	197.2	171.0	164.7	160.2	155.0	156.2	157.0
462.7	30°	448.0	355.4	241.8	188.9	162.2	155.0	151.7	147.3	147.8	148.8
435.3	32.5°	424.8	343.2	229.1	182.2	153.5	146.3	143.8	138.8	139.5	140.5
408.3	35°	401.8	329.7	214.1	174.2	145.5	138.3	136.3	130.5	131.0	132.5
381.4	37.5°	377.1	315.5	201.9	166.2	137.8	130.3	128.3	122.3	122.8	124.5
353.4	40°	351.2	301.5	189.9	157.7	129.5	122.0	120.3	113.8	114.3	116.3
326.0	42.5°	325.0	286.3	180.7	146.8	121.0	113.1	111.3	105.3	106.1	108.3
302.0	45°	300.8	268.1	174.7	134.5	113.1	104.1	102.3	96.8	98.3	100.8
281.8	47.5°	280.0	249.3	172.2	124.3	104.6	94.8	93.3	88.9	91.3	94.1
264.6	50°	262.3	231.4	169.0	113.8	96.6	86.9	85.4	82.4	85.6	88.4
252.8	52.5°	249.6	210.9	162.0	104.3	89.6	80.1	79.6	78.1	81.1	83.6
244.1	55°	238.6	189.7	150.8	96.1	83.4	74.4	74.9	74.1	76.6	78.6
238.9	57.5°	228.6	171.2	136.5	89.6	76.6	69.4	70.9	69.9	71.1	72.4
233.4	60°	216.6	152.5	119.6	82.4	68.6	64.4	66.1	63.4	63.1	63.6
223.4	62.5°	198.9	127.3	101.8	73.4	61.6	58.9	59.7	54.4	50.4	50.4
208.7	65°	174.2	102.3	85.4	63.4	53.7	51.4	50.9	43.4	37.9	37.4
192.7	67.5°	145.5	84.1	70.9	53.4	44.7	43.2	43.7	38.2	32.7	32.2
176.7	70°	118.6	69.6	57.2	42.7	34.4	35.9	38.2	32.7	27.5	26.7
158.0	72.5°	96.3	55.4	44.7	32.7	25.5	29.7	32.4	26.7	21.7	21.2
134.8	75°	74.4	40.7	31.9	22.2	18.5	23.0	25.5	19.5	15.5	14.7
104.3	77.5°	49.7	25.2	18.0	14.0	11.0	15.7	17.0	10.2	9.0	8.7
75.9	80°	30.2	11.7	7.7	6.7	3.7	5.7	6.7	4.2	4.7	5.0
40.4	82.5°	15.2	3.2	1.2	0.2	0.0	0.0	2.0	1.0	2.0	2.5
11.0	85°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
440.8	2.5°	454.7	465.2	475.2	491.2	507.7	523.9	540.4	556.3	562.1	566.3
380.6	5°	402.3	422.1	445.0	476.7	510.7	545.6	581.0	613.5	628.2	638.2
324.0	7.5°	348.2	373.9	406.8	454.5	507.7	563.3	619.0	670.1	693.9	713.1
270.6	10°	294.5	322.5	364.1	418.6	490.4	570.3	647.2	717.6	748.3	772.5
232.1	12.5°	247.3	273.5	317.2	377.4	463.5	564.8	663.4	748.0	784.2	811.4
204.7	15°	214.1	232.6	271.3	336.2	431.5	547.1	664.4	762.5	802.2	830.6
193.2	17.5°	195.7	201.9	227.1	294.3	396.1	523.9	655.2	767.5	809.9	836.4
182.9	20°	185.7	186.7	193.7	239.9	350.7	502.2	646.4	772.5	817.1	839.4
175.7	22.5°	177.7	177.7	179.5	196.2	292.0	476.2	643.7	781.2	827.1	840.9
167.5	25°	170.5	170.5	171.0	175.5	231.4	436.5	641.9	794.7	840.9	844.6
159.2	27.5°	163.0	163.2	163.2	165.7	186.4	382.6	634.4	812.2	857.3	849.6
151.2	30°	155.5	156.0	156.0	157.7	165.0	319.5	619.7	833.1	878.8	856.1
143.3	32.5°	148.0	148.5	148.5	150.0	155.2	255.1	601.3	852.3	900.5	858.8
135.5	35°	140.3	141.0	140.5	142.5	148.0	202.9	577.8	871.6	924.0	867.6
128.0	37.5°	132.5	133.0	132.8	134.8	141.0	175.2	550.6	886.0	955.9	887.0
120.1	40°	124.8	124.5	124.5	126.8	133.5	167.2	516.4	909.0	1001.8	921.2
112.1	42.5°	116.8	116.8	116.3	118.8	127.0	161.2	483.7	950.2	1068.7	975.6
104.6	45°	109.6	109.3	108.3	110.6	120.8	150.8	472.2	1027.0	1167.6	1063.7
97.1	47.5°	102.6	102.3	99.8	101.8	113.3	141.3	515.1	1152.8	1304.6	1193.3
91.1	50°	96.3	96.6	91.8	93.6	105.8	134.0	608.2	1316.1	1486.5	1367.7
86.1	52.5°	90.6	90.6	84.4	85.4	96.6	127.5	696.8	1493.0	1726.6	1611.1
80.9	55°	84.9	84.4	77.4	77.9	87.4	118.3	710.1	1665.7	2054.1	1977.2
75.1	57.5°	78.4	77.4	70.9	70.9	78.9	111.6	615.5	1798.5	2460.4	2515.3
64.4	60°	70.4	69.6	65.4	64.1	72.1	117.6	434.3	1814.0	2722.5	3230.9
51.2	62.5°	60.2	61.1	58.9	57.2	65.6	122.0	257.3	1689.5	2659.1	3458.5
39.7	65°	47.4	51.4	50.9	49.7	72.1	102.8	152.0	1450.3	2464.7	3274.8
34.7	67.5°	40.4	43.2	42.4	42.4	75.6	78.1	95.6	1133.1	2197.1	3056.9
29.0	70°	34.4	37.2	34.4	34.4	57.2	47.4	66.1	791.2	1908.3	2815.8
23.2	72.5°	28.5	31.2	28.2	26.2	45.7	35.4	48.4	494.4	1634.3	2564.8
16.5	75°	21.7	25.0	22.7	20.2	30.2	26.5	36.7	287.3	1354.0	2194.4
10.0	77.5°	13.7	18.0	17.0	14.2	22.2	19.2	26.5	171.0	1044.8	1714.7
6.0	80°	8.5	9.2	9.5	9.0	12.7	13.0	18.0	97.3	715.1	1195.0
3.7	82.5°	5.5	5.5	4.2	4.7	6.2	7.5	10.2	36.7	420.3	727.5
2.2	85°	4.0	3.5	2.2	2.2	3.0	3.7	4.0	11.2	170.5	287.3
1.0	87.5°	2.0	1.7	0.7	1.0	1.5	1.2	1.0	0.5	42.9	91.8
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
575.8	2.5°	580.8	588.5	589.0	589.0	582.3	582.0	568.3	566.8
660.7	5°	683.9	688.9	690.1	687.6	674.1	664.2	637.4	631.7
747.3	7.5°	778.2	788.2	788.2	782.2	760.2	739.8	701.1	686.6
818.9	10°	853.6	865.1	862.6	850.3	822.6	794.4	747.5	728.5
862.3	12.5°	890.3	902.0	895.5	881.5	854.6	824.9	775.5	754.0
874.8	15°	889.5	886.3	879.5	877.8	864.8	842.4	796.2	772.7
867.1	17.5°	857.8	830.4	825.1	842.6	859.1	853.6	814.2	792.2
848.6	20°	807.7	759.7	755.0	788.4	835.4	859.3	830.9	810.7
821.9	22.5°	754.8	703.1	692.1	729.0	799.7	861.1	852.1	831.9
792.4	25°	704.6	652.7	641.7	676.1	760.0	858.1	875.1	857.8
764.2	27.5°	662.7	612.5	602.3	636.7	721.8	849.6	898.0	885.8
736.3	30°	630.2	583.8	576.3	609.5	688.9	839.1	927.2	920.5
710.3	32.5°	611.2	577.3	580.0	607.2	671.1	827.6	955.2	958.4
697.6	35°	630.0	631.5	655.4	666.6	687.6	825.9	993.1	1005.8
712.8	37.5°	723.1	775.0	824.6	815.4	768.2	846.1	1049.8	1073.5
779.2	40°	881.5	988.1	1068.7	1033.5	914.7	908.0	1131.4	1166.8
897.0	42.5°	1075.2	1255.9	1388.7	1294.4	1103.7	1016.3	1247.9	1293.1
1039.5	45°	1279.6	1586.1	1795.3	1599.1	1305.1	1168.1	1424.4	1459.8
1173.1	47.5°	1495.0	1987.5	2258.0	1937.0	1491.8	1340.8	1665.0	1673.2
1299.6	50°	1730.6	2427.5	2729.7	2274.7	1672.0	1538.7	1959.0	1949.5
1447.1	52.5°	1955.0	2880.0	3191.5	2613.9	1830.2	1784.3	2300.2	2280.7
1648.8	55°	2169.2	3332.2	3655.9	2939.9	1979.5	2108.8	2705.5	2587.7
1939.5	57.5°	2417.5	3738.8	4134.7	3267.3	2188.1	2530.1	3158.8	2765.9
2496.4	60°	2784.6	4200.8	4676.0	3716.1	2585.0	2972.8	3321.3	2732.0
3163.3	62.5°	3253.4	4625.6	5069.6	4155.9	2983.6	3056.2	3081.9	2470.4
3027.2	65°	3344.5	4733.2	5091.8	4273.4	2932.1	2592.5	2516.1	1985.7
2704.0	67.5°	3102.9	4538.7	4781.3	4054.5	2593.7	2003.4	1888.1	1440.6
2491.9	70°	2831.8	4168.1	4240.2	3682.4	2281.2	1473.6	1275.1	924.5
2346.6	72.5°	2554.0	3673.7	3524.4	3198.0	2004.9	1073.0	919.7	657.2
2139.7	75°	2224.1	3023.5	2776.2	2657.1	1660.0	842.1	665.4	453.5
1840.5	77.5°	1781.1	2128.2	2062.1	2059.6	1247.4	615.2	444.0	284.3
1437.9	80°	1256.4	1381.2	1347.5	1551.2	836.9	446.3	267.3	158.2
1000.8	82.5°	608.2	763.7	784.0	923.7	407.1	262.6	61.6	34.4
391.4	85°	238.1	368.4	310.7	350.7	114.3	73.1	1.5	0.0
64.4	87.5°	26.7	42.7	39.2	30.9	14.0	3.0	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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