

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: P944944

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944944
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 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: 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

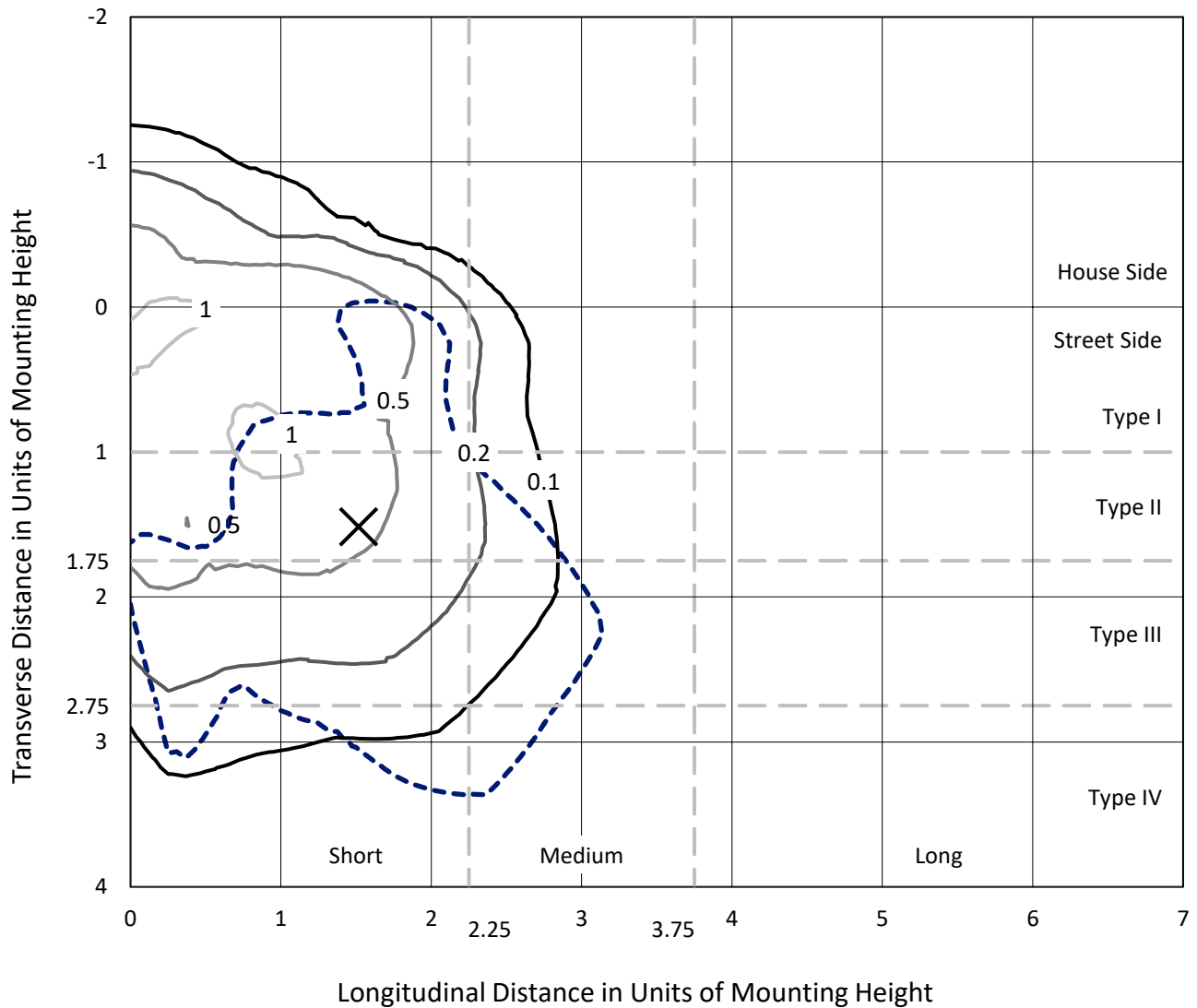
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

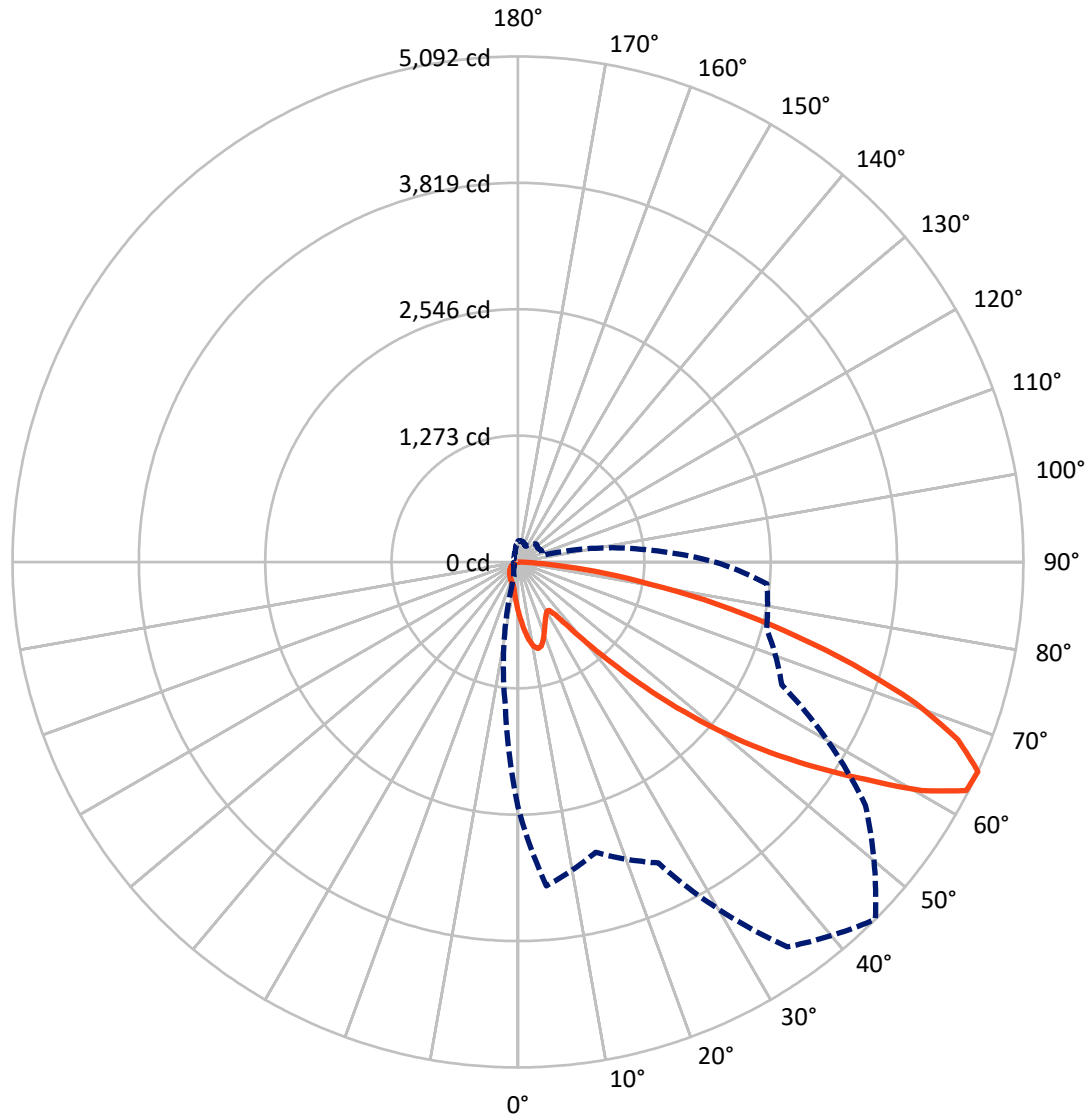
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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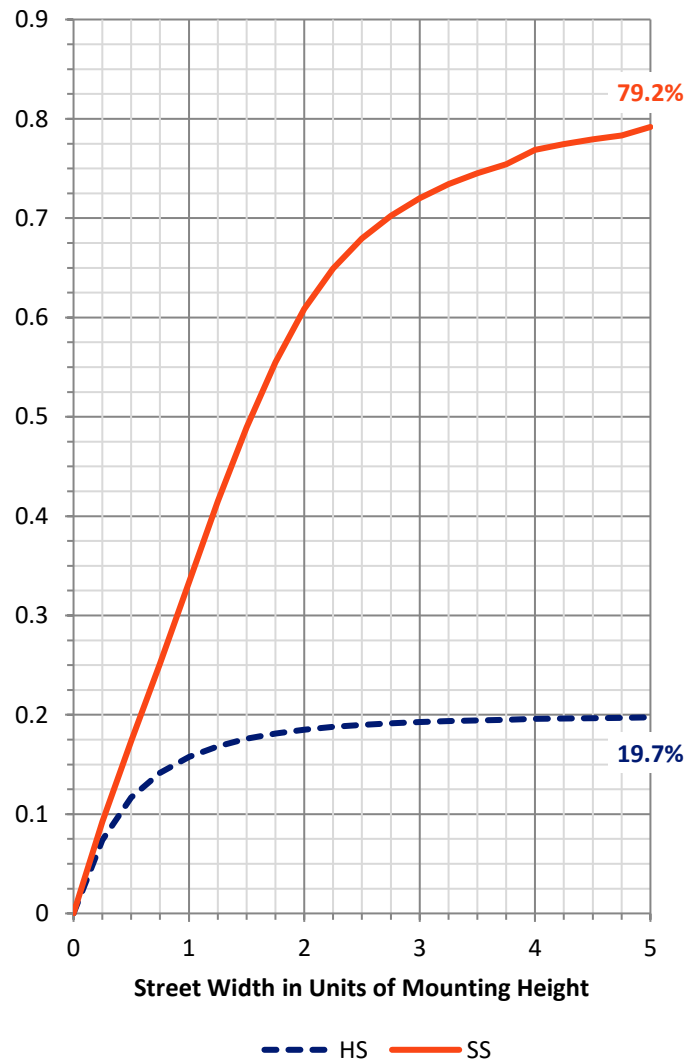
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	720.1	0.0	720.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2902.9	0.0	2902.9
	% Fixture	80.1	0.0	80.1
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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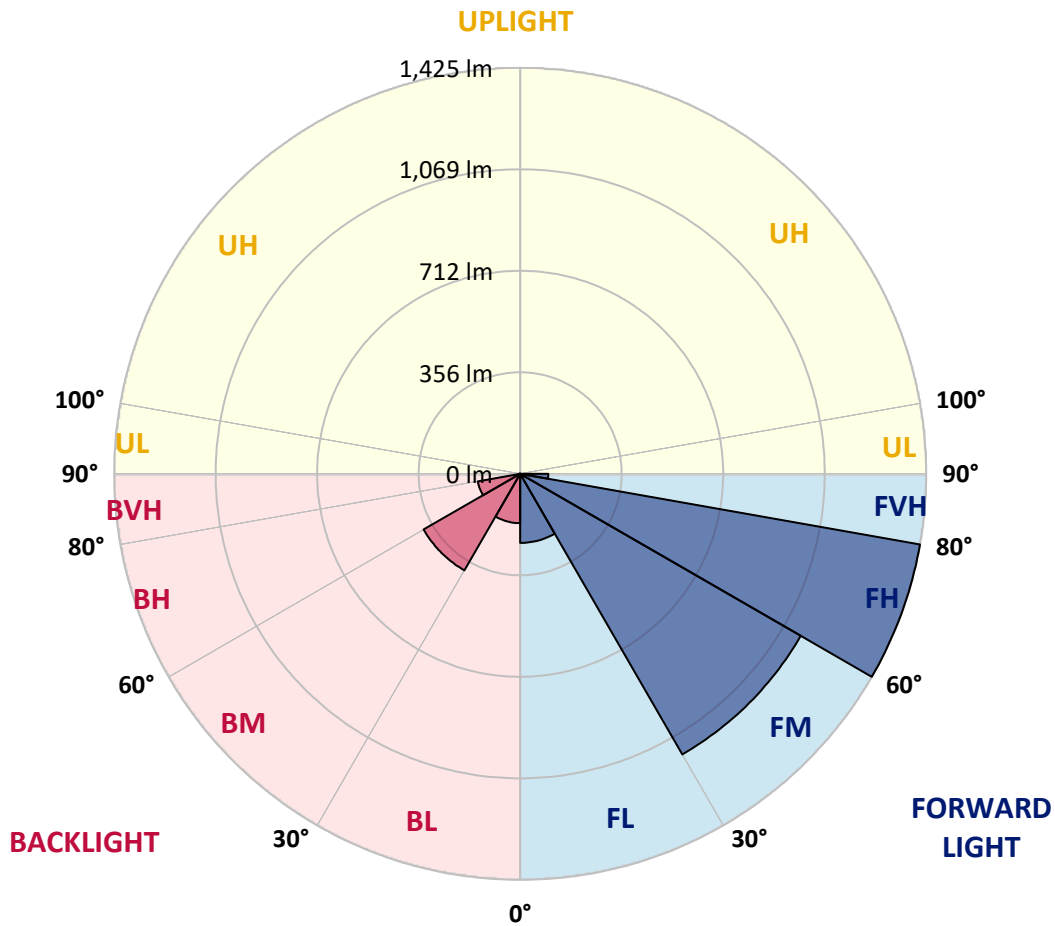
CATALOG NUMBER: GALN-SB1A-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.4	6.7			
FM (30°-60°)	1136.9	31.4			
FH (60°-80°)	1424.7	39.3			G1/1800
FVH (80°-90°)	98.8	2.7			G1/100
BL (0°-30°)	173.2	4.8	B1/500		
BM (30°-60°)	391.2	10.8	B1/1000		
BH (60°-80°)	150.9	4.2	B1/500		G1/500
BVH (80°-90°)	4.9	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°	562.1	566.3	575.8	580.8	588.5	589.0	589.0	582.3	582.0	568.3
5°	628.2	638.2	660.7	683.9	688.9	690.1	687.6	674.1	664.2	637.4
7.5°	693.9	713.1	747.3	778.2	788.2	788.2	782.2	760.2	739.8	701.1
10°	748.3	772.5	818.9	853.6	865.1	862.6	850.3	822.6	794.4	747.5
12.5°	784.2	811.4	862.3	890.3	902.0	895.5	881.5	854.6	824.9	775.5
15°	802.2	830.6	874.8	889.5	886.3	879.5	877.8	864.8	842.4	796.2
17.5°	809.9	836.4	867.1	857.8	830.4	825.1	842.6	859.1	853.6	814.2
20°	817.1	839.4	848.6	807.7	759.7	755.0	788.4	835.4	859.3	830.9
22.5°	827.1	840.9	821.9	754.8	703.1	692.1	729.0	799.7	861.1	852.1
25°	840.9	844.6	792.4	704.6	652.7	641.7	676.1	760.0	858.1	875.1
27.5°	857.3	849.6	764.2	662.7	612.5	602.3	636.7	721.8	849.6	898.0
30°	878.8	856.1	736.3	630.2	583.8	576.3	609.5	688.9	839.1	927.2
32.5°	900.5	858.8	710.3	611.2	577.3	580.0	607.2	671.1	827.6	955.2
35°	924.0	867.6	697.6	630.0	631.5	655.4	666.6	687.6	825.9	993.1
37.5°	955.9	887.0	712.8	723.1	775.0	824.6	815.4	768.2	846.1	1049.8
40°	1001.8	921.2	779.2	881.5	988.1	1068.7	1033.5	914.7	908.0	1131.4
42.5°	1068.7	975.6	897.0	1075.2	1255.9	1388.7	1294.4	1103.7	1016.3	1247.9
45°	1167.6	1063.7	1039.5	1279.6	1586.1	1795.3	1599.1	1305.1	1168.1	1424.4
47.5°	1304.6	1193.3	1173.1	1495.0	1987.5	2258.0	1937.0	1491.8	1340.8	1665.0
50°	1486.5	1367.7	1299.6	1730.6	2427.5	2729.7	2274.7	1672.0	1538.7	1959.0
52.5°	1726.6	1611.1	1447.1	1955.0	2880.0	3191.5	2613.9	1830.2	1784.3	2300.2
55°	2054.1	1977.2	1648.8	2169.2	3332.2	3655.9	2939.9	1979.5	2108.8	2705.5
57.5°	2460.4	2515.3	1939.5	2417.5	3738.8	4134.7	3267.3	2188.1	2530.1	3158.8
60°	2722.5	3230.9	2496.4	2784.6	4200.8	4676.0	3716.1	2585.0	2972.8	3321.3
62.5°	2659.1	3458.5	3163.3	3253.4	4625.6	5069.6	4155.9	2983.6	3056.2	3081.9
65°	2464.7	3274.8	3027.2	3344.5	4733.2	5091.8	4273.4	2932.1	2592.5	2516.1
67.5°	2197.1	3056.9	2704.0	3102.9	4538.7	4781.3	4054.5	2593.7	2003.4	1888.1
70°	1908.3	2815.8	2491.9	2831.8	4168.1	4240.2	3682.4	2281.2	1473.6	1275.1
72.5°	1634.3	2564.8	2346.6	2554.0	3673.7	3524.4	3198.0	2004.9	1073.0	919.7
75°	1354.0	2194.4	2139.7	2224.1	3023.5	2776.2	2657.1	1660.0	842.1	665.4
77.5°	1044.8	1714.7	1840.5	1781.1	2128.2	2062.1	2059.6	1247.4	615.2	444.0
80°	715.1	1195.0	1437.9	1256.4	1381.2	1347.5	1551.2	836.9	446.3	267.3
82.5°	420.3	727.5	1000.8	608.2	763.7	784.0	923.7	407.1	262.6	61.6
85°	170.5	287.3	391.4	238.1	368.4	310.7	350.7	114.3	73.1	1.5
87.5°	42.9	91.8	64.4	26.7	42.7	39.2	30.9	14.0	3.0	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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
566.8	2.5°	557.1	551.3	537.1	522.9	511.4	495.9	485.7	473.5	461.7	451.3
631.7	5°	616.0	597.0	571.1	547.3	523.1	499.7	476.5	452.0	429.5	415.8
686.6	7.5°	663.9	630.5	596.0	565.8	536.6	509.2	478.5	448.8	413.6	394.8
728.5	10°	699.6	655.7	610.5	575.8	546.3	519.6	493.7	463.7	421.3	397.8
754.0	12.5°	723.1	670.9	618.0	578.3	545.3	524.6	513.2	501.4	459.2	431.8
772.7	15°	739.3	681.6	623.2	572.6	532.1	516.9	528.4	541.9	514.9	483.2
792.2	17.5°	757.0	695.6	625.5	557.1	506.4	499.9	529.6	560.8	559.6	528.1
810.7	20°	775.7	707.8	624.0	532.1	475.2	481.0	518.9	555.1	570.3	553.3
831.9	22.5°	794.9	719.6	618.2	499.7	446.0	464.0	501.9	533.6	551.6	546.3
857.8	25°	819.1	736.0	609.7	464.7	421.8	446.8	482.2	507.9	520.4	520.1
885.8	27.5°	848.1	758.0	605.2	436.5	404.6	427.3	458.7	481.7	490.4	490.4
920.5	30°	881.8	784.0	600.3	418.1	394.6	407.1	431.5	454.0	462.7	462.7
958.4	32.5°	919.2	808.9	588.3	406.8	387.1	387.4	402.8	423.3	433.8	435.3
1005.8	35°	964.2	835.6	562.1	397.8	378.4	368.1	375.6	392.6	405.1	408.3
1073.5	37.5°	1023.1	868.3	524.6	384.6	364.9	347.9	349.7	362.6	376.4	381.4
1166.8	40°	1102.2	906.7	485.7	365.6	345.9	325.7	325.0	334.4	347.9	353.4
1293.1	42.5°	1206.8	952.9	448.5	347.4	323.0	302.2	301.0	308.5	320.2	326.0
1459.8	45°	1340.5	1009.6	416.6	333.2	300.5	280.0	279.5	285.8	296.0	302.0
1673.2	47.5°	1526.5	1066.2	394.8	325.7	282.8	261.8	262.8	268.3	277.5	281.8
1949.5	50°	1768.8	1083.5	383.9	325.7	273.3	245.6	250.6	255.1	262.1	264.6
2280.7	52.5°	2001.4	1026.6	373.9	327.7	274.5	231.9	242.6	245.8	251.8	252.8
2587.7	55°	2115.5	882.5	360.2	328.2	282.3	220.1	236.1	242.1	244.3	244.1
2765.9	57.5°	2076.3	713.6	336.9	326.2	287.5	212.6	228.1	239.6	241.1	238.9
2732.0	60°	1938.8	525.4	319.2	311.5	285.5	210.4	215.9	234.1	236.4	233.4
2470.4	62.5°	1708.2	364.6	305.5	279.0	276.8	209.7	196.7	222.1	227.6	223.4
1985.7	65°	1344.8	257.6	263.1	244.6	257.8	205.7	176.7	207.7	215.1	208.7
1440.6	67.5°	910.0	185.9	213.1	221.6	227.1	196.7	162.2	191.2	201.2	192.7
924.5	70°	491.4	130.5	140.8	186.7	192.9	181.2	149.3	174.5	185.9	176.7
657.2	72.5°	290.3	93.8	98.6	150.0	160.7	159.5	134.8	155.0	169.0	158.0
453.5	75°	160.0	63.4	70.4	108.8	130.5	123.0	115.8	131.3	145.5	134.8
284.3	77.5°	71.6	37.9	48.9	71.4	102.6	84.4	89.6	102.3	115.6	104.3
158.2	80°	27.7	21.2	32.4	38.9	74.6	46.7	57.7	75.4	84.9	75.9
34.4	82.5°	3.5	9.5	14.0	15.2	43.4	24.7	33.4	47.4	46.7	40.4
0.0	85°	0.0	1.7	2.0	1.0	18.7	9.0	11.0	15.5	14.5	11.0
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
449.3	2.5°	437.0	428.0	423.5	419.8	423.3	425.3	425.3	433.8	438.8	440.8
407.1	5°	385.1	368.4	357.2	350.4	352.7	355.2	357.9	368.6	375.9	380.6
377.9	7.5°	344.2	318.7	303.0	294.8	296.0	297.8	300.0	310.5	317.7	324.0
372.4	10°	324.0	288.0	267.3	257.3	255.6	254.6	253.8	260.1	265.6	270.6
394.8	12.5°	325.0	274.8	249.6	237.4	232.1	226.1	221.4	222.4	225.9	232.1
435.0	15°	337.7	270.6	240.4	225.1	216.4	209.4	203.7	202.4	203.7	204.7
481.0	17.5°	354.9	270.1	232.4	213.4	204.4	198.7	193.4	191.7	191.9	193.2
511.4	20°	368.6	268.6	223.4	202.2	194.2	189.2	183.9	182.2	182.7	182.9
514.4	22.5°	375.9	266.3	213.4	190.9	184.2	179.2	174.5	174.2	174.2	175.7
498.2	25°	375.9	261.6	204.4	180.2	174.2	169.7	164.0	165.0	165.5	167.5
473.0	27.5°	366.9	252.6	197.2	171.0	164.7	160.2	155.0	156.2	157.0	159.2
448.0	30°	355.4	241.8	188.9	162.2	155.0	151.7	147.3	147.8	148.8	151.2
424.8	32.5°	343.2	229.1	182.2	153.5	146.3	143.8	138.8	139.5	140.5	143.3
401.8	35°	329.7	214.1	174.2	145.5	138.3	136.3	130.5	131.0	132.5	135.5
377.1	37.5°	315.5	201.9	166.2	137.8	130.3	128.3	122.3	122.8	124.5	128.0
351.2	40°	301.5	189.9	157.7	129.5	122.0	120.3	113.8	114.3	116.3	120.1
325.0	42.5°	286.3	180.7	146.8	121.0	113.1	111.3	105.3	106.1	108.3	112.1
300.8	45°	268.1	174.7	134.5	113.1	104.1	102.3	96.8	98.3	100.8	104.6
280.0	47.5°	249.3	172.2	124.3	104.6	94.8	93.3	88.9	91.3	94.1	97.1
262.3	50°	231.4	169.0	113.8	96.6	86.9	85.4	82.4	85.6	88.4	91.1
249.6	52.5°	210.9	162.0	104.3	89.6	80.1	79.6	78.1	81.1	83.6	86.1
238.6	55°	189.7	150.8	96.1	83.4	74.4	74.9	74.1	76.6	78.6	80.9
228.6	57.5°	171.2	136.5	89.6	76.6	69.4	70.9	69.9	71.1	72.4	75.1
216.6	60°	152.5	119.6	82.4	68.6	64.4	66.1	63.4	63.1	63.6	64.4
198.9	62.5°	127.3	101.8	73.4	61.6	58.9	59.7	54.4	50.4	50.4	51.2
174.2	65°	102.3	85.4	63.4	53.7	51.4	50.9	43.4	37.9	37.4	39.7
145.5	67.5°	84.1	70.9	53.4	44.7	43.2	43.7	38.2	32.7	32.2	34.7
118.6	70°	69.6	57.2	42.7	34.4	35.9	38.2	32.7	27.5	26.7	29.0
96.3	72.5°	55.4	44.7	32.7	25.5	29.7	32.4	26.7	21.7	21.2	23.2
74.4	75°	40.7	31.9	22.2	18.5	23.0	25.5	19.5	15.5	14.7	16.5
49.7	77.5°	25.2	18.0	14.0	11.0	15.7	17.0	10.2	9.0	8.7	10.0
30.2	80°	11.7	7.7	6.7	3.7	5.7	6.7	4.2	4.7	5.0	6.0
15.2	82.5°	3.2	1.2	0.2	0.0	0.0	2.0	1.0	2.0	2.5	3.7
1.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.2	2.2
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°
501.7	0°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
454.7	2.5°	465.2	475.2	491.2	507.7	523.9	540.4	556.3	562.1
402.3	5°	422.1	445.0	476.7	510.7	545.6	581.0	613.5	628.2
348.2	7.5°	373.9	406.8	454.5	507.7	563.3	619.0	670.1	693.9
294.5	10°	322.5	364.1	418.6	490.4	570.3	647.2	717.6	748.3
247.3	12.5°	273.5	317.2	377.4	463.5	564.8	663.4	748.0	784.2
214.1	15°	232.6	271.3	336.2	431.5	547.1	664.4	762.5	802.2
195.7	17.5°	201.9	227.1	294.3	396.1	523.9	655.2	767.5	809.9
185.7	20°	186.7	193.7	239.9	350.7	502.2	646.4	772.5	817.1
177.7	22.5°	177.7	179.5	196.2	292.0	476.2	643.7	781.2	827.1
170.5	25°	170.5	171.0	175.5	231.4	436.5	641.9	794.7	840.9
163.0	27.5°	163.2	163.2	165.7	186.4	382.6	634.4	812.2	857.3
155.5	30°	156.0	156.0	157.7	165.0	319.5	619.7	833.1	878.8
148.0	32.5°	148.5	148.5	150.0	155.2	255.1	601.3	852.3	900.5
140.3	35°	141.0	140.5	142.5	148.0	202.9	577.8	871.6	924.0
132.5	37.5°	133.0	132.8	134.8	141.0	175.2	550.6	886.0	955.9
124.8	40°	124.5	124.5	126.8	133.5	167.2	516.4	909.0	1001.8
116.8	42.5°	116.8	116.3	118.8	127.0	161.2	483.7	950.2	1068.7
109.6	45°	109.3	108.3	110.6	120.8	150.8	472.2	1027.0	1167.6
102.6	47.5°	102.3	99.8	101.8	113.3	141.3	515.1	1152.8	1304.6
96.3	50°	96.6	91.8	93.6	105.8	134.0	608.2	1316.1	1486.5
90.6	52.5°	90.6	84.4	85.4	96.6	127.5	696.8	1493.0	1726.6
84.9	55°	84.4	77.4	77.9	87.4	118.3	710.1	1665.7	2054.1
78.4	57.5°	77.4	70.9	70.9	78.9	111.6	615.5	1798.5	2460.4
70.4	60°	69.6	65.4	64.1	72.1	117.6	434.3	1814.0	2722.5
60.2	62.5°	61.1	58.9	57.2	65.6	122.0	257.3	1689.5	2659.1
47.4	65°	51.4	50.9	49.7	72.1	102.8	152.0	1450.3	2464.7
40.4	67.5°	43.2	42.4	42.4	75.6	78.1	95.6	1133.1	2197.1
34.4	70°	37.2	34.4	34.4	57.2	47.4	66.1	791.2	1908.3
28.5	72.5°	31.2	28.2	26.2	45.7	35.4	48.4	494.4	1634.3
21.7	75°	25.0	22.7	20.2	30.2	26.5	36.7	287.3	1354.0
13.7	77.5°	18.0	17.0	14.2	22.2	19.2	26.5	171.0	1044.8
8.5	80°	9.2	9.5	9.0	12.7	13.0	18.0	97.3	715.1
5.5	82.5°	5.5	4.2	4.7	6.2	7.5	10.2	36.7	420.3
4.0	85°	3.5	2.2	2.2	3.0	3.7	4.0	11.2	170.5
2.0	87.5°	1.7	0.7	1.0	1.5	1.2	1.0	0.5	42.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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