

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: P945070

Luminaire Tested: **GALN-SB1A-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945070
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-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 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: 3276 lumens
Efficiency: N/A
Efficacy: 106.0 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

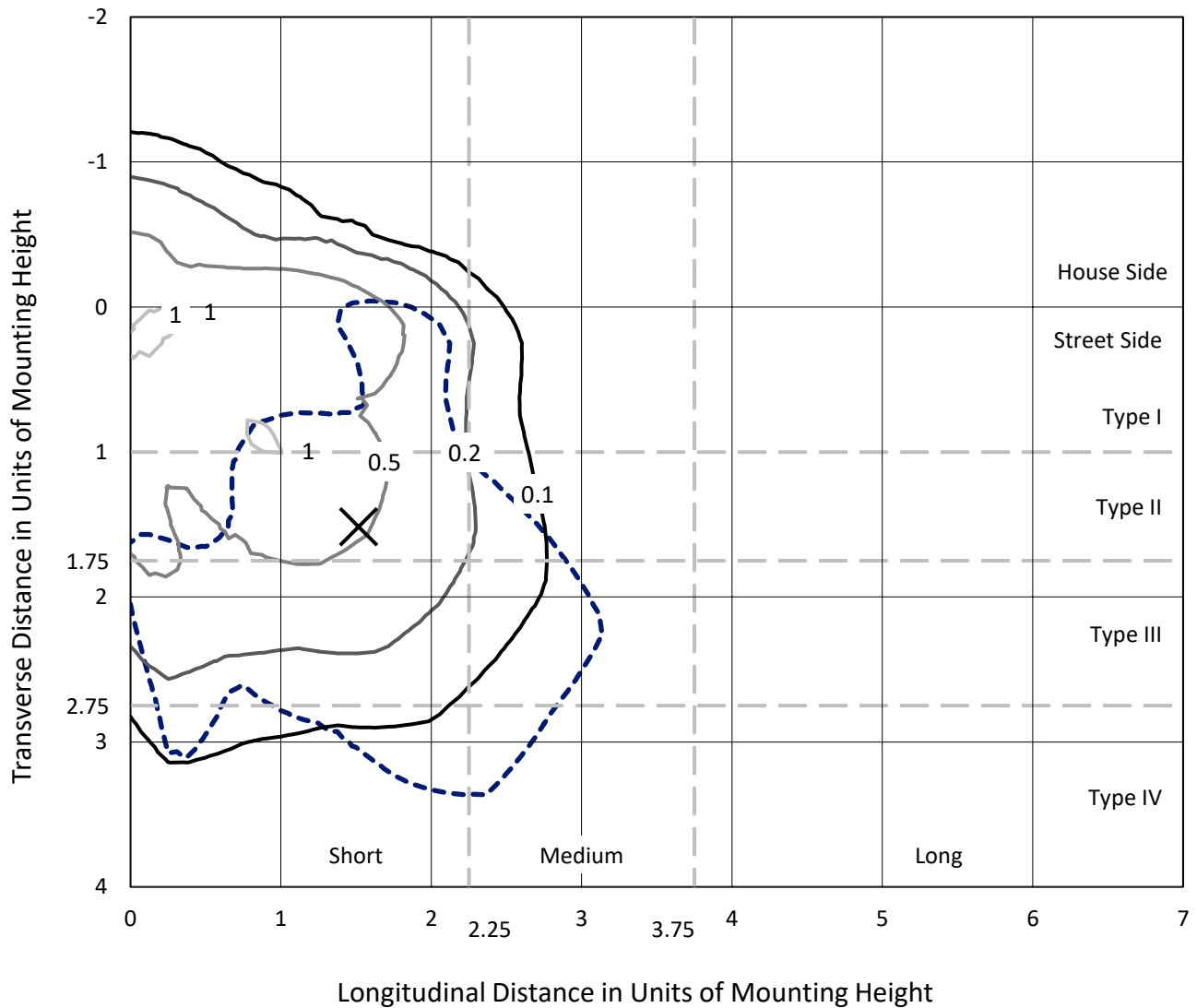
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

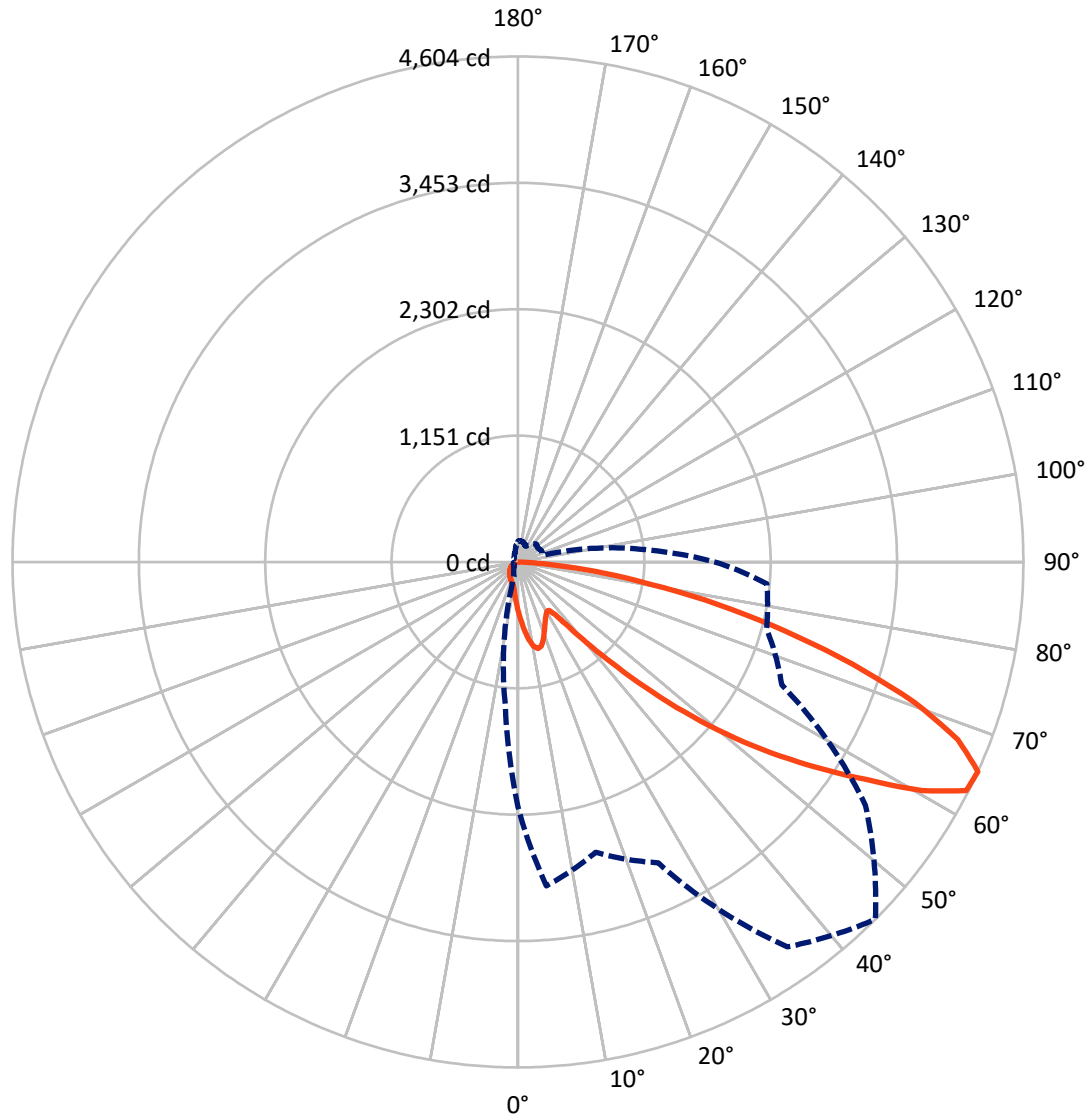
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	651.2	0.0	651.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	2624.8	0.0	2624.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	3276.0	0.0	3276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.4
10°-20°	133.9	4.1
20°-30°	197.2	6.0
30°-40°	253.4	7.7
40°-50°	409.8	12.5
50°-60°	718.6	21.9
60°-70°	899.2	27.4
70°-80°	525.5	16.0
80°-90°	93.7	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°	3276.0	100.0
0°-180°	3276.0	100.0

Coefficient of Utilization



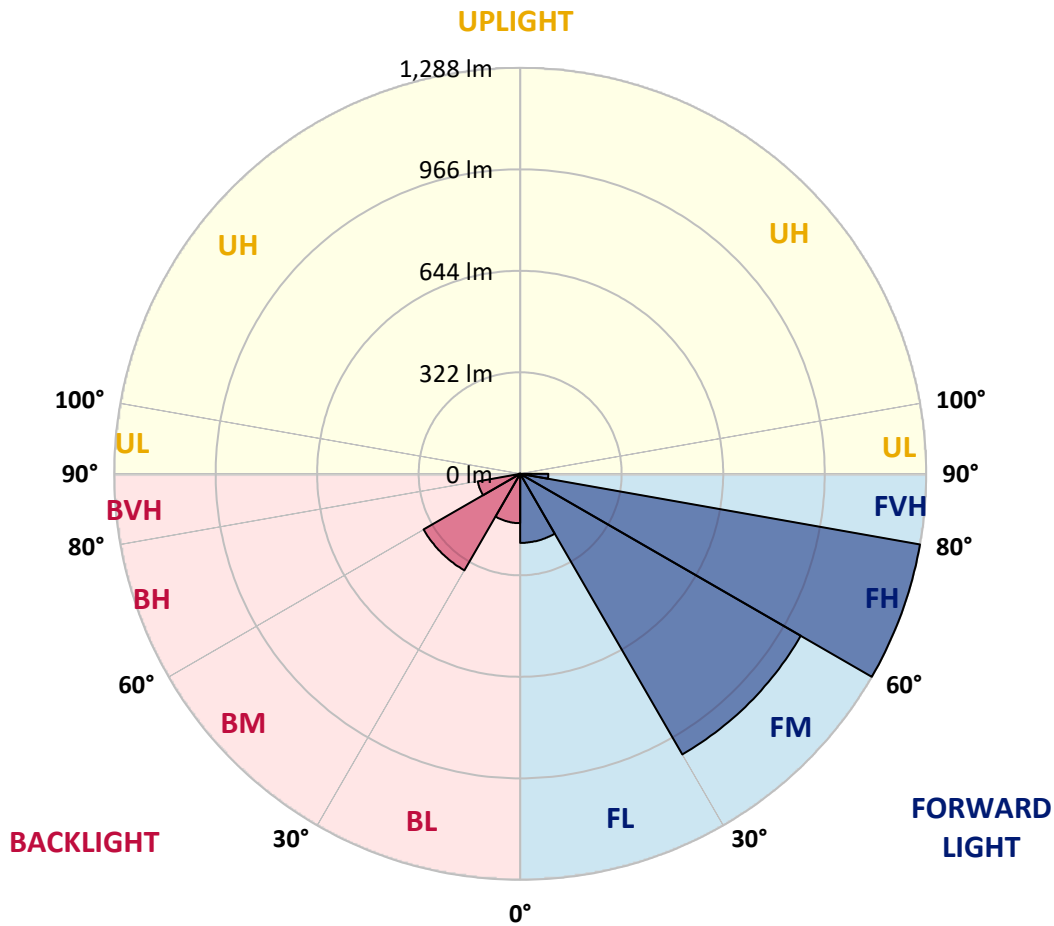
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.2	6.7			
FM (30°-60°)	1028.1	31.4			
FH (60°-80°)	1288.2	39.3			G1/1800
FVH (80°-90°)	89.4	2.7			G1/100
BL (0°-30°)	156.6	4.8	B1/500		
BM (30°-60°)	353.8	10.8	B1/1000		
BH (60°-80°)	136.4	4.2	B1/500		G1/500
BVH (80°-90°)	4.4	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°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	508.2	512.1	520.6	525.2	532.2	532.6	532.6	526.5	526.3	513.9
5°	568.0	577.1	597.4	618.4	622.9	624.0	621.8	609.6	600.5	576.4
7.5°	627.4	644.8	675.7	703.7	712.7	712.7	707.3	687.4	668.9	633.9
10°	676.6	698.5	740.5	771.8	782.2	780.0	768.9	743.8	718.3	675.9
12.5°	709.1	733.7	779.7	805.0	815.6	809.7	797.1	772.7	745.9	701.2
15°	725.3	751.1	791.0	804.3	801.4	795.3	793.7	782.0	761.7	719.9
17.5°	732.3	756.3	784.0	775.7	750.8	746.1	761.9	776.8	771.8	736.2
20°	738.9	759.0	767.3	730.3	687.0	682.7	712.9	755.4	777.0	751.3
22.5°	747.9	760.3	743.2	682.5	635.7	625.8	659.2	723.1	778.6	770.5
25°	760.3	763.7	716.5	637.1	590.2	580.2	611.4	687.2	775.9	791.2
27.5°	775.2	768.2	691.0	599.2	553.8	544.6	575.7	652.7	768.2	812.0
30°	794.6	774.1	665.8	569.8	527.9	521.1	551.1	622.9	758.7	838.4
32.5°	814.3	776.6	642.3	552.7	522.0	524.5	549.1	606.9	748.4	863.7
35°	835.5	784.5	630.8	569.6	571.0	592.6	602.8	621.8	746.8	898.0
37.5°	864.4	802.1	644.5	653.8	700.7	745.7	737.3	694.6	765.1	949.2
40°	905.9	833.0	704.6	797.1	893.5	966.4	934.5	827.1	821.0	1023.0
42.5°	966.4	882.2	811.1	972.2	1135.6	1255.7	1170.4	998.0	919.0	1128.4
45°	1055.7	961.9	940.0	1157.1	1434.2	1623.3	1445.9	1180.1	1056.2	1288.0
47.5°	1179.6	1079.0	1060.7	1351.8	1797.1	2041.7	1751.5	1348.9	1212.4	1505.5
50°	1344.2	1236.7	1175.1	1564.9	2195.0	2468.3	2056.9	1511.8	1391.3	1771.4
52.5°	1561.3	1456.8	1308.5	1767.8	2604.1	2885.8	2363.6	1654.9	1613.4	2079.9
55°	1857.4	1787.9	1490.9	1961.4	3013.1	3305.8	2658.3	1789.9	1906.8	2446.4
57.5°	2224.8	2274.4	1753.8	2186.0	3380.7	3738.7	2954.4	1978.6	2287.7	2856.2
60°	2461.7	2921.5	2257.3	2517.9	3798.5	4228.2	3360.2	2337.4	2688.1	3003.2
62.5°	2404.4	3127.3	2860.3	2941.8	4182.6	4584.1	3757.8	2697.8	2763.5	2786.7
65°	2228.6	2961.2	2737.3	3024.1	4279.8	4604.1	3864.1	2651.3	2344.2	2275.1
67.5°	1986.7	2764.2	2445.0	2805.7	4104.0	4323.4	3666.2	2345.3	1811.6	1707.3
70°	1725.6	2546.1	2253.2	2560.6	3768.9	3834.1	3329.7	2062.7	1332.4	1153.0
72.5°	1477.8	2319.1	2121.9	2309.4	3321.8	3186.9	2891.7	1812.9	970.2	831.6
75°	1224.3	1984.2	1934.8	2011.1	2733.9	2510.3	2402.6	1501.0	761.5	601.7
77.5°	944.7	1550.4	1664.2	1610.5	1924.4	1864.6	1862.3	1128.0	556.3	401.5
80°	646.6	1080.6	1300.2	1136.1	1248.9	1218.5	1402.6	756.7	403.5	241.7
82.5°	380.0	657.9	905.0	550.0	690.6	708.9	835.2	368.1	237.4	55.7
85°	154.1	259.8	353.9	215.3	333.1	281.0	317.1	103.4	66.1	1.4
87.5°	38.8	83.1	58.2	24.1	38.6	35.4	28.0	12.6	2.7	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
453.6	0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
512.5	2.5°	503.7	498.5	485.7	472.8	462.4	448.4	439.2	428.1	417.5	408.0
571.2	5°	557.0	539.8	516.4	494.9	473.0	451.8	430.8	408.7	388.4	376.0
620.9	7.5°	600.3	570.1	538.9	511.6	485.2	460.4	432.6	405.8	374.0	357.0
658.8	10°	632.6	592.9	552.0	520.6	494.0	469.9	446.4	419.3	381.0	359.7
681.8	12.5°	653.8	606.6	558.8	522.9	493.1	474.4	464.0	453.4	415.3	390.4
698.7	15°	668.5	616.3	563.5	517.7	481.2	467.4	477.8	490.0	465.6	436.9
716.3	17.5°	684.5	629.0	565.6	503.7	457.9	452.0	478.9	507.1	506.0	477.5
733.0	20°	701.4	640.0	564.2	481.2	429.7	434.9	469.2	501.9	515.7	500.3
752.2	22.5°	718.8	650.6	559.0	451.8	403.3	419.5	453.8	482.5	498.8	494.0
775.7	25°	740.7	665.5	551.3	420.2	381.4	404.0	436.0	459.3	470.5	470.3
800.9	27.5°	766.9	685.4	547.3	394.7	365.8	386.4	414.8	435.6	443.5	443.5
832.3	30°	797.3	708.9	542.8	378.0	356.8	368.1	390.2	410.5	418.4	418.4
866.6	32.5°	831.2	731.4	531.9	367.9	350.0	350.3	364.3	382.8	392.2	393.6
909.5	35°	871.8	755.6	508.2	359.7	342.1	332.9	339.7	355.0	366.3	369.2
970.7	37.5°	925.1	785.1	474.4	347.8	329.9	314.6	316.2	327.9	340.3	344.8
1055.1	40°	996.6	819.9	439.2	330.6	312.8	294.5	293.8	302.4	314.6	319.6
1169.3	42.5°	1091.2	861.7	405.6	314.1	292.0	273.3	272.2	278.9	289.6	294.7
1320.0	45°	1212.1	912.9	376.7	301.3	271.7	253.2	252.8	258.4	267.7	273.1
1513.0	47.5°	1380.3	964.1	357.0	294.5	255.7	236.7	237.6	242.6	251.0	254.8
1762.8	50°	1599.4	979.7	347.1	294.5	247.1	222.1	226.6	230.6	237.0	239.2
2062.3	52.5°	1809.7	928.2	338.1	296.3	248.3	209.7	219.4	222.3	227.7	228.6
2339.9	55°	1912.9	798.0	325.7	296.8	255.2	199.1	213.5	218.9	220.9	220.7
2501.0	57.5°	1877.5	645.2	304.7	295.0	260.0	192.3	206.3	216.7	218.0	216.0
2470.3	60°	1753.1	475.1	288.6	281.7	258.2	190.3	195.2	211.7	213.7	211.0
2233.8	62.5°	1544.6	329.7	276.2	252.3	250.3	189.6	177.8	200.9	205.8	202.0
1795.5	65°	1216.0	232.9	237.9	221.2	233.1	186.0	159.8	187.8	194.5	188.7
1302.6	67.5°	822.8	168.1	192.7	200.4	205.4	177.8	146.7	172.9	181.9	174.2
835.9	70°	444.4	118.0	127.3	168.8	174.5	163.8	135.0	157.8	168.1	159.8
594.2	72.5°	262.5	84.9	89.1	135.6	145.3	144.2	121.9	140.1	152.8	142.9
410.1	75°	144.7	57.3	63.6	98.4	118.0	111.3	104.7	118.7	131.6	121.9
257.1	77.5°	64.8	34.3	44.2	64.5	92.8	76.3	81.0	92.5	104.5	94.3
143.1	80°	25.1	19.2	29.3	35.2	67.5	42.2	52.1	68.2	76.7	68.6
31.1	82.5°	3.2	8.6	12.6	13.8	39.3	22.3	30.2	42.9	42.2	36.6
0.0	85°	0.0	1.6	1.8	0.9	16.9	8.1	9.9	14.0	13.1	9.9
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°
453.6	0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
406.2	2.5°	395.2	387.0	383.0	379.6	382.8	384.6	384.6	392.2	396.7	398.6
368.1	5°	348.2	333.1	323.0	316.9	318.9	321.1	323.6	333.3	339.9	344.2
341.7	7.5°	311.2	288.2	274.0	266.5	267.7	269.2	271.3	280.7	287.3	292.9
336.7	10°	292.9	260.4	241.7	232.7	231.1	230.2	229.5	235.2	240.1	244.6
357.0	12.5°	293.8	248.5	225.7	214.6	209.9	204.5	200.2	201.1	204.2	209.9
393.4	15°	305.3	244.6	217.3	203.6	195.7	189.3	184.2	183.0	184.2	185.1
434.9	17.5°	320.9	244.2	210.1	193.0	184.8	179.6	174.9	173.3	173.5	174.7
462.4	20°	333.3	242.8	202.0	182.8	175.6	171.1	166.3	164.7	165.2	165.4
465.1	22.5°	339.9	240.8	193.0	172.6	166.6	162.0	157.8	157.5	157.5	158.9
450.5	25°	339.9	236.5	184.8	162.9	157.5	153.5	148.3	149.2	149.6	151.4
427.7	27.5°	331.8	228.4	178.3	154.6	149.0	144.9	140.1	141.3	142.0	144.0
405.1	30°	321.4	218.7	170.8	146.7	140.1	137.2	133.2	133.6	134.5	136.8
384.1	32.5°	310.3	207.2	164.7	138.8	132.2	130.0	125.5	126.2	127.1	129.5
363.3	35°	298.1	193.6	157.5	131.6	125.0	123.2	118.0	118.5	119.8	122.5
341.0	37.5°	285.3	182.6	150.3	124.6	117.8	116.0	110.6	111.0	112.6	115.8
317.5	40°	272.6	171.7	142.6	117.1	110.4	108.8	102.9	103.4	105.2	108.6
293.8	42.5°	258.9	163.4	132.7	109.5	102.2	100.7	95.2	95.9	97.9	101.3
271.9	45°	242.4	158.0	121.6	102.2	94.1	92.5	87.6	88.9	91.2	94.6
253.2	47.5°	225.5	155.7	112.4	94.6	85.8	84.4	80.3	82.6	85.1	87.8
237.2	50°	209.2	152.8	102.9	87.3	78.5	77.2	74.5	77.4	79.9	82.4
225.7	52.5°	190.7	146.5	94.3	81.0	72.4	72.0	70.6	73.3	75.6	77.9
215.8	55°	171.5	136.3	86.9	75.4	67.3	67.7	67.0	69.3	71.1	73.1
206.7	57.5°	154.8	123.4	81.0	69.3	62.7	64.1	63.2	64.3	65.4	67.9
195.9	60°	137.9	108.1	74.5	62.1	58.2	59.8	57.3	57.1	57.5	58.2
179.9	62.5°	115.1	92.1	66.4	55.7	53.3	53.9	49.2	45.6	45.6	46.3
157.5	65°	92.5	77.2	57.3	48.5	46.5	46.0	39.3	34.3	33.9	35.9
131.6	67.5°	76.1	64.1	48.3	40.4	39.0	39.5	34.5	29.6	29.1	31.4
107.2	70°	63.0	51.7	38.6	31.1	32.5	34.5	29.6	24.8	24.1	26.2
87.1	72.5°	50.1	40.4	29.6	23.0	26.9	29.3	24.1	19.6	19.2	21.0
67.3	75°	36.8	28.9	20.1	16.7	20.8	23.0	17.6	14.0	13.3	14.9
44.9	77.5°	22.8	16.2	12.6	9.9	14.2	15.3	9.3	8.1	7.9	9.0
27.3	80°	10.6	7.0	6.1	3.4	5.2	6.1	3.8	4.3	4.5	5.4
13.8	82.5°	2.9	1.1	0.2	0.0	0.0	1.8	0.9	1.8	2.3	3.4
1.1	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.1	2.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°
453.6	0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
411.2	2.5°	420.7	429.7	444.1	459.0	473.7	488.6	503.0	508.2
363.8	5°	381.6	402.4	431.1	461.7	493.3	525.4	554.7	568.0
314.8	7.5°	338.1	367.9	411.0	459.0	509.4	559.7	606.0	627.4
266.3	10°	291.6	329.3	378.5	443.5	515.7	585.2	648.8	676.6
223.7	12.5°	247.3	286.8	341.2	419.1	510.7	599.9	676.4	709.1
193.6	15°	210.3	245.3	304.0	390.2	494.7	600.8	689.5	725.3
176.9	17.5°	182.6	205.4	266.1	358.2	473.7	592.4	694.0	732.3
167.9	20°	168.8	175.1	216.9	317.1	454.1	584.5	698.5	738.9
160.7	22.5°	160.7	162.3	177.4	264.0	430.6	582.0	706.4	747.9
154.1	25°	154.1	154.6	158.7	209.2	394.7	580.5	718.6	760.3
147.4	27.5°	147.6	147.6	149.9	168.6	346.0	573.7	734.4	775.2
140.6	30°	141.1	141.1	142.6	149.2	288.9	560.4	753.3	794.6
133.8	32.5°	134.3	134.3	135.6	140.4	230.6	543.7	770.7	814.3
126.8	35°	127.5	127.1	128.9	133.8	183.5	522.5	788.1	835.5
119.8	37.5°	120.3	120.1	121.9	127.5	158.4	497.9	801.2	864.4
112.8	40°	112.6	112.6	114.6	120.7	151.2	466.9	821.9	905.9
105.6	42.5°	105.6	105.2	107.4	114.9	145.8	437.4	859.2	966.4
99.1	45°	98.8	97.9	100.0	109.2	136.3	427.0	928.7	1055.7
92.8	47.5°	92.5	90.3	92.1	102.5	127.7	465.8	1042.4	1179.6
87.1	50°	87.3	83.1	84.6	95.7	121.2	550.0	1190.0	1344.2
81.9	52.5°	81.9	76.3	77.2	87.3	115.3	630.1	1350.0	1561.3
76.7	55°	76.3	70.0	70.4	79.0	107.0	642.1	1506.2	1857.4
70.9	57.5°	70.0	64.1	64.1	71.3	100.9	556.5	1626.3	2224.8
63.6	60°	63.0	59.1	58.0	65.2	106.3	392.7	1640.3	2461.7
54.4	62.5°	55.3	53.3	51.7	59.4	110.4	232.7	1527.6	2404.4
42.9	65°	46.5	46.0	44.9	65.2	93.0	137.4	1311.4	2228.6
36.6	67.5°	39.0	38.4	38.4	68.4	70.6	86.4	1024.6	1986.7
31.1	70°	33.6	31.1	31.1	51.7	42.9	59.8	715.4	1725.6
25.7	72.5°	28.2	25.5	23.7	41.3	32.0	43.8	447.1	1477.8
19.6	75°	22.6	20.5	18.3	27.3	23.9	33.2	259.8	1224.3
12.4	77.5°	16.2	15.3	12.9	20.1	17.4	23.9	154.6	944.7
7.7	80°	8.4	8.6	8.1	11.5	11.7	16.2	88.0	646.6
5.0	82.5°	5.0	3.8	4.3	5.6	6.8	9.3	33.2	380.0
3.6	85°	3.2	2.0	2.0	2.7	3.4	3.6	10.2	154.1
1.8	87.5°	1.6	0.7	0.9	1.4	1.1	0.9	0.5	38.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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