

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: P945345

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945345
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-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA 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: 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

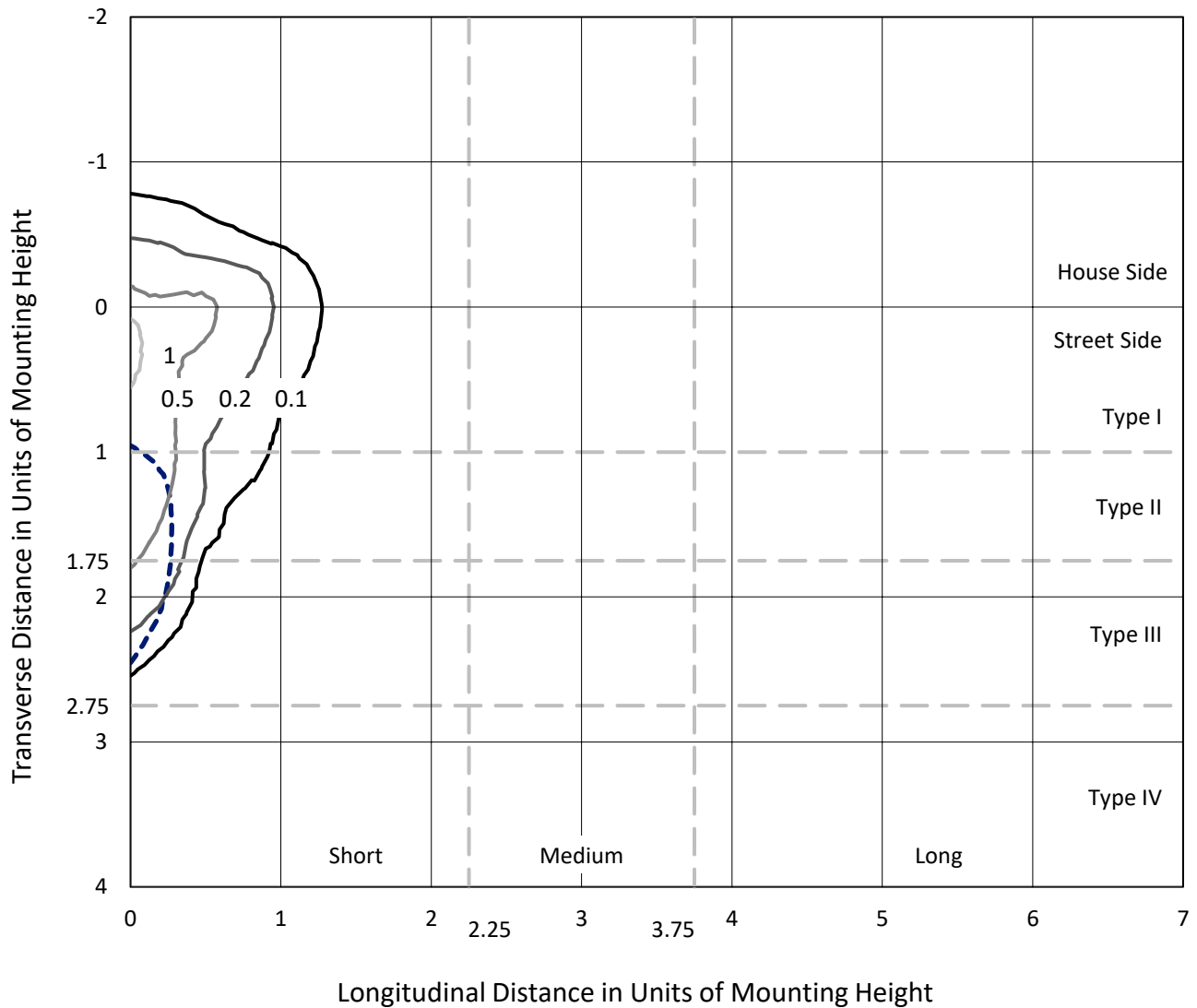
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

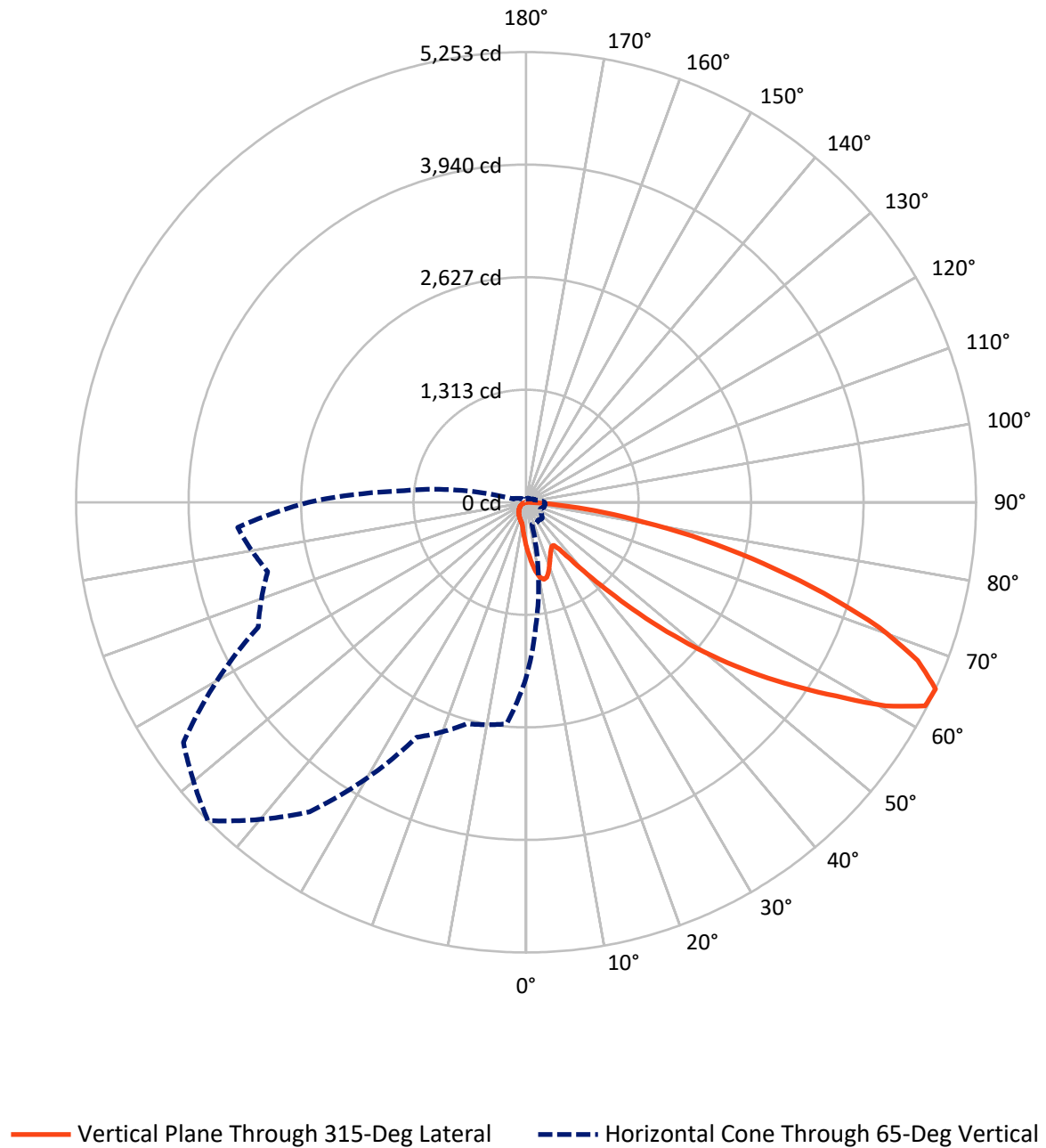
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	523.5	0.0	523.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3214.5	0.0	3214.5
	% Fixture	86.0	0.0	86.0
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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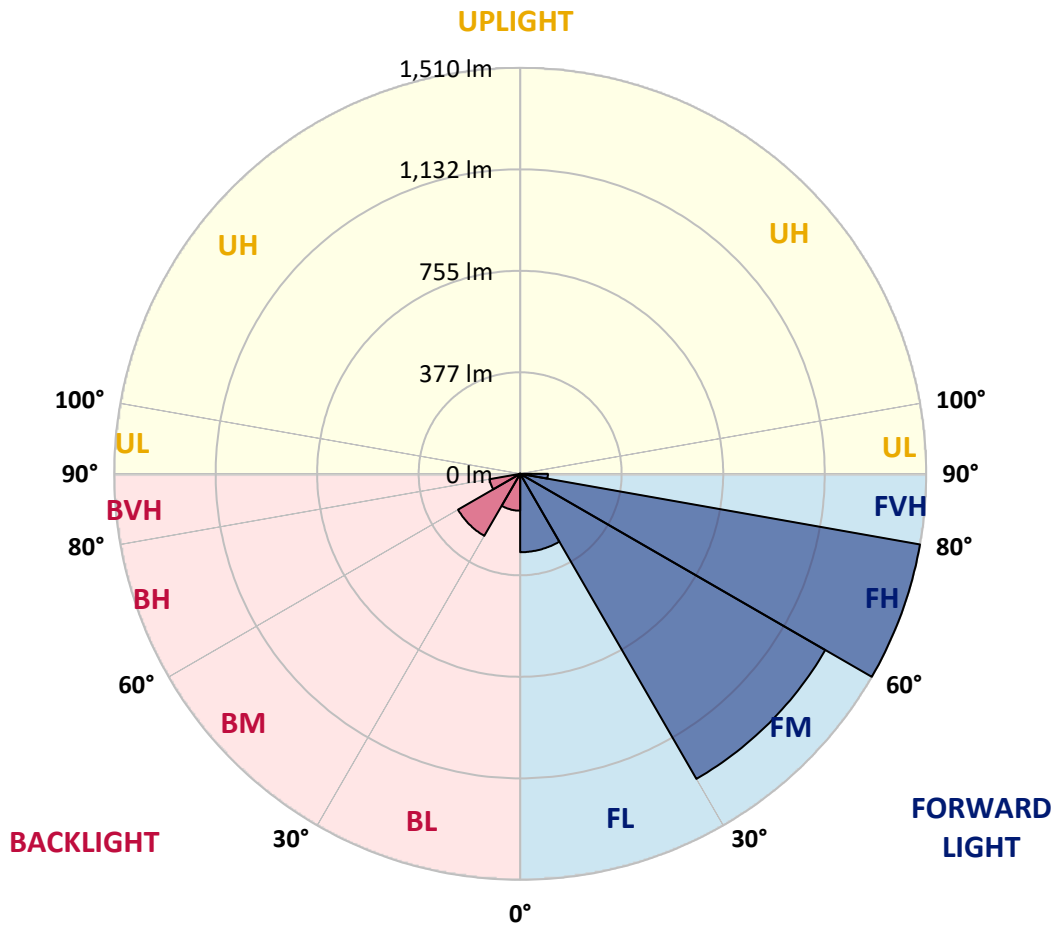
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.6	7.8			
FM (30°-60°)	1310.1	35.0			
FH (60°-80°)	1510.0	40.4			G1/1800
FVH (80°-90°)	102.9	2.8			G2/225
BL (0°-30°)	137.2	3.7	B1/500		
BM (30°-60°)	266.6	7.1	B1/1000		
BH (60°-80°)	115.6	3.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	584.8	574.8	568.8	554.2	539.5	527.6	511.7	501.1	488.5	476.4
5°	651.8	635.5	616.0	589.2	564.7	539.7	515.5	491.6	466.3	443.2
7.5°	708.4	685.0	650.5	614.9	583.8	553.6	525.3	493.6	463.0	426.7
10°	751.7	721.8	676.5	629.9	594.1	563.7	536.1	509.4	478.5	434.7
12.5°	777.9	746.0	692.2	637.6	596.6	562.7	541.3	529.4	517.3	473.8
15°	797.2	762.7	703.3	643.0	590.7	549.0	533.3	545.1	559.1	531.2
17.5°	817.3	781.0	717.7	645.3	574.8	522.5	515.8	546.4	578.6	577.3
20°	836.4	800.3	730.3	643.8	549.0	490.3	496.2	535.4	572.7	588.4
22.5°	858.3	820.2	742.4	637.9	515.5	460.2	478.7	517.9	550.6	569.1
25°	885.1	845.1	759.4	629.1	479.5	435.2	460.9	497.5	524.0	536.9
27.5°	913.9	875.0	782.1	624.5	450.4	417.4	440.9	473.3	497.0	506.0
30°	949.7	909.8	808.8	619.3	431.3	407.1	420.0	445.2	468.4	477.4
32.5°	988.8	948.4	834.6	606.9	419.7	399.4	399.7	415.6	436.7	447.6
35°	1037.8	994.8	862.1	579.9	410.5	390.4	379.8	387.6	405.1	417.9
37.5°	1107.5	1055.5	895.9	541.3	396.8	376.5	359.0	360.8	374.2	388.3
40°	1203.9	1137.2	935.5	501.1	377.3	356.9	336.0	335.3	345.1	359.0
42.5°	1334.2	1245.1	983.2	462.7	358.5	333.2	311.8	310.6	318.3	330.4
45°	1506.2	1383.1	1041.6	429.8	343.8	310.0	288.9	288.4	294.8	305.4
47.5°	1726.3	1574.9	1100.1	407.4	336.0	291.8	270.1	271.2	276.8	286.4
50°	2011.4	1825.0	1117.8	396.0	336.0	282.0	253.4	258.5	263.2	270.4
52.5°	2353.1	2065.0	1059.1	385.7	338.1	283.3	239.2	250.3	253.6	259.8
55°	2669.9	2182.6	910.6	371.6	338.6	291.2	227.1	243.6	249.8	252.1
57.5°	2853.7	2142.2	736.2	347.6	336.6	296.7	219.4	235.4	247.2	248.8
60°	2818.7	2000.3	542.1	329.4	321.4	294.6	217.1	222.7	241.5	243.9
62.5°	2548.8	1762.4	376.2	315.2	287.9	285.6	216.3	202.9	229.2	234.8
65°	2048.7	1387.5	265.7	271.4	252.4	266.0	212.2	182.3	214.2	222.0
67.5°	1486.3	938.9	191.8	219.9	228.7	234.3	202.9	167.4	197.3	207.6
70°	953.8	507.0	134.7	145.2	192.6	199.1	187.0	154.0	180.0	191.8
72.5°	678.0	299.5	96.8	101.7	154.8	165.8	164.5	139.1	159.9	174.3
75°	467.9	165.1	65.4	72.6	112.3	134.7	127.0	119.5	135.4	150.1
77.5°	293.3	73.9	39.1	50.5	73.6	105.8	87.0	92.4	105.6	119.2
80°	163.3	28.6	21.9	33.5	40.2	77.0	48.2	59.5	77.8	87.6
82.5°	35.5	3.6	9.8	14.4	15.7	44.8	25.5	34.5	48.9	48.2
85°	0.0	0.0	1.8	2.1	1.0	19.3	9.3	11.3	16.0	14.9
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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
465.6	2.5°	463.5	450.9	441.6	437.0	433.1	436.7	438.8	438.8	447.6	452.7
429.0	5°	420.0	397.3	380.1	368.5	361.5	363.9	366.4	369.3	380.3	387.8
407.4	7.5°	389.9	355.1	328.8	312.6	304.1	305.4	307.2	309.5	320.3	327.8
410.5	10°	384.2	334.2	297.2	275.8	265.5	263.7	262.7	261.9	268.3	274.0
445.5	12.5°	407.4	335.3	283.5	257.5	244.9	239.5	233.3	228.4	229.4	233.0
498.5	15°	448.8	348.4	279.1	248.0	232.3	223.3	216.1	210.1	208.8	210.1
544.9	17.5°	496.2	366.2	278.6	239.7	220.2	210.9	205.0	199.6	197.8	198.0
570.9	20°	527.6	380.3	277.1	230.5	208.6	200.3	195.2	189.8	188.0	188.5
563.7	22.5°	530.7	387.8	274.8	220.2	197.0	190.0	184.9	180.0	179.7	179.7
536.6	25°	514.0	387.8	269.9	210.9	185.9	179.7	175.1	169.2	170.2	170.7
506.0	27.5°	488.0	378.5	260.6	203.4	176.4	170.0	165.3	159.9	161.2	162.0
477.4	30°	462.2	366.7	249.5	194.9	167.4	159.9	156.6	151.9	152.4	153.5
449.1	32.5°	438.3	354.1	236.4	188.0	158.4	150.9	148.3	143.2	143.9	145.0
421.3	35°	414.6	340.2	220.9	179.7	150.1	142.7	140.6	134.7	135.2	136.7
393.5	37.5°	389.1	325.5	208.3	171.5	142.1	134.4	132.4	126.2	126.7	128.5
364.6	40°	362.3	311.1	196.0	162.7	133.6	125.9	124.1	117.4	117.9	120.0
336.3	42.5°	335.3	295.4	186.4	151.4	124.9	116.7	114.8	108.7	109.4	111.8
311.6	45°	310.3	276.6	180.3	138.8	116.7	107.4	105.6	99.9	101.5	104.0
290.7	47.5°	288.9	257.3	177.7	128.2	107.9	97.9	96.3	91.7	94.2	97.1
273.0	50°	270.6	238.7	174.3	117.4	99.7	89.6	88.1	85.0	88.3	91.2
260.9	52.5°	257.5	217.6	167.1	107.6	92.4	82.7	82.1	80.6	83.7	86.3
251.8	55°	246.2	195.7	155.5	99.1	86.0	76.7	77.3	76.5	79.1	81.1
246.4	57.5°	235.9	176.7	140.9	92.4	79.1	71.6	73.1	72.1	73.4	74.7
240.8	60°	223.5	157.3	123.3	85.0	70.8	66.4	68.2	65.4	65.1	65.7
230.5	62.5°	205.2	131.3	105.1	75.7	63.6	60.8	61.5	56.1	52.0	52.0
215.3	65°	179.7	105.6	88.1	65.4	55.4	53.0	52.5	44.8	39.1	38.6
198.8	67.5°	150.1	86.8	73.1	55.1	46.1	44.5	45.1	39.4	33.7	33.2
182.3	70°	122.3	71.8	59.0	44.0	35.5	37.1	39.4	33.7	28.3	27.6
163.0	72.5°	99.4	57.2	46.1	33.7	26.3	30.6	33.5	27.6	22.4	21.9
139.1	75°	76.7	42.0	33.0	22.9	19.1	23.7	26.3	20.1	16.0	15.2
107.6	77.5°	51.2	26.0	18.5	14.4	11.3	16.2	17.5	10.6	9.3	9.0
78.3	80°	31.2	12.1	8.0	7.0	3.9	5.9	7.0	4.4	4.9	5.2
41.7	82.5°	15.7	3.3	1.3	0.3	0.0	0.0	2.1	1.0	2.1	2.6
11.3	85°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3
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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
454.8	2.5°	469.2	480.0	490.3	506.8	523.8	540.5	557.5	574.0	579.9	584.3
392.7	5°	415.1	435.4	459.1	491.8	526.9	562.9	599.5	633.0	648.2	658.5
334.2	7.5°	359.2	385.7	419.7	468.9	523.8	581.2	638.6	691.4	715.9	735.7
279.1	10°	303.9	332.7	375.7	431.8	506.0	588.4	667.7	740.3	772.0	797.0
239.5	12.5°	255.2	282.2	327.3	389.4	478.2	582.7	684.5	771.8	809.1	837.2
211.2	15°	220.9	240.0	279.9	346.9	445.2	564.5	685.5	786.7	827.6	857.0
199.3	17.5°	201.9	208.3	234.3	303.6	408.7	540.5	676.0	791.8	835.6	862.9
188.8	20°	191.6	192.6	199.8	247.5	361.8	518.1	666.9	797.0	843.1	866.0
181.3	22.5°	183.3	183.3	185.1	202.4	301.3	491.3	664.1	806.0	853.4	867.5
172.8	25°	175.9	175.9	176.4	181.0	238.7	450.4	662.3	819.9	867.5	871.4
164.3	27.5°	168.2	168.4	168.4	171.0	192.4	394.8	654.6	837.9	884.5	876.6
156.1	30°	160.4	160.9	160.9	162.7	170.2	329.6	639.4	859.6	906.7	883.3
147.8	32.5°	152.7	153.2	153.2	154.8	160.2	263.2	620.3	879.4	929.1	886.1
139.8	35°	144.7	145.5	145.0	147.0	152.7	209.4	596.1	899.2	953.3	895.1
132.1	37.5°	136.7	137.3	137.0	139.1	145.5	180.8	568.1	914.2	986.3	915.2
123.9	40°	128.8	128.5	128.5	130.8	137.8	172.5	532.8	937.8	1033.6	950.5
115.6	42.5°	120.5	120.5	120.0	122.6	131.1	166.4	499.1	980.3	1102.7	1006.6
107.9	45°	113.0	112.8	111.8	114.1	124.6	155.5	487.2	1059.7	1204.6	1097.5
100.2	47.5°	105.8	105.6	103.0	105.1	116.9	145.8	531.5	1189.4	1346.0	1231.2
94.0	50°	99.4	99.7	94.8	96.6	109.2	138.3	627.5	1357.8	1533.7	1411.2
88.8	52.5°	93.5	93.5	87.0	88.1	99.7	131.6	719.0	1540.4	1781.4	1662.2
83.4	55°	87.6	87.0	79.8	80.3	90.1	122.1	732.6	1718.6	2119.3	2040.0
77.5	57.5°	80.9	79.8	73.1	73.1	81.4	115.1	635.0	1855.6	2538.5	2595.2
66.4	60°	72.6	71.8	67.5	66.2	74.4	121.3	448.1	1871.6	2808.9	3333.5
52.8	62.5°	62.1	63.1	60.8	59.0	67.7	125.9	265.5	1743.1	2743.5	3568.3
40.9	65°	48.9	53.0	52.5	51.2	74.4	106.1	156.8	1496.4	2542.9	3378.8
35.8	67.5°	41.7	44.5	43.8	43.8	78.0	80.6	98.6	1169.1	2266.9	3154.0
29.9	70°	35.5	38.4	35.5	35.5	59.0	48.9	68.2	816.3	1968.9	2905.2
23.9	72.5°	29.4	32.2	29.1	27.0	47.1	36.6	50.0	510.1	1686.2	2646.2
17.0	75°	22.4	25.8	23.4	20.9	31.2	27.3	37.9	296.4	1397.0	2264.0
10.3	77.5°	14.2	18.5	17.5	14.7	22.9	19.8	27.3	176.4	1077.9	1769.1
6.2	80°	8.8	9.5	9.8	9.3	13.1	13.4	18.5	100.4	737.8	1233.0
3.9	82.5°	5.7	5.7	4.4	4.9	6.4	7.7	10.6	37.9	433.6	750.6
2.3	85°	4.1	3.6	2.3	2.3	3.1	3.9	4.1	11.6	175.9	296.4
1.0	87.5°	2.1	1.8	0.8	1.0	1.5	1.3	1.0	0.5	44.3	94.8
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°
517.6	0°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	517.6
594.1	2.5°	599.2	607.2	607.7	607.7	600.8	600.5	586.3	584.8
681.6	5°	705.6	710.7	712.0	709.4	695.5	685.2	657.7	651.8
771.0	7.5°	802.9	813.2	813.2	807.0	784.4	763.3	723.3	708.4
844.9	10°	880.7	892.5	890.0	877.3	848.8	819.7	771.2	751.7
889.7	12.5°	918.5	930.6	923.9	909.5	881.7	851.1	800.1	777.9
902.6	15°	917.8	914.4	907.5	905.7	892.3	869.1	821.5	797.2
894.6	17.5°	885.1	856.7	851.3	869.4	886.3	880.7	840.0	817.3
875.5	20°	833.3	783.9	779.0	813.5	861.9	886.6	857.2	836.4
848.0	22.5°	778.7	725.4	714.1	752.2	825.1	888.4	879.1	858.3
817.6	25°	726.9	673.4	662.1	697.6	784.1	885.3	902.8	885.1
788.5	27.5°	683.7	631.9	621.4	656.9	744.7	876.6	926.5	913.9
759.7	30°	650.2	602.3	594.6	628.8	710.7	865.7	956.6	949.7
732.9	32.5°	630.6	595.6	598.5	626.5	692.4	853.9	985.5	988.8
719.7	35°	650.0	651.5	676.2	687.8	709.4	852.1	1024.6	1037.8
735.4	37.5°	746.0	799.6	850.8	841.3	792.6	873.0	1083.1	1107.5
803.9	40°	909.5	1019.5	1102.7	1066.3	943.8	936.8	1167.3	1203.9
925.5	42.5°	1109.3	1295.8	1432.8	1335.4	1138.7	1048.6	1287.5	1334.2
1072.5	45°	1320.2	1636.5	1852.3	1649.9	1346.5	1205.1	1469.6	1506.2
1210.3	47.5°	1542.5	2050.5	2329.7	1998.5	1539.1	1383.3	1717.8	1726.3
1340.9	50°	1785.6	2504.5	2816.4	2346.9	1725.1	1587.5	2021.2	2011.4
1493.0	52.5°	2017.1	2971.4	3292.8	2696.9	1888.3	1840.9	2373.2	2353.1
1701.1	55°	2238.0	3438.0	3772.0	3033.2	2042.3	2175.7	2791.4	2669.9
2001.1	57.5°	2494.2	3857.5	4265.9	3371.1	2257.6	2610.4	3259.0	2853.7
2575.6	60°	2873.0	4334.1	4824.4	3834.1	2667.0	3067.2	3426.7	2818.7
3263.7	62.5°	3356.6	4772.4	5230.5	4287.8	3078.3	3153.2	3179.7	2548.8
3123.3	65°	3450.6	4883.4	5253.4	4409.1	3025.2	2674.7	2595.9	2048.7
2789.9	67.5°	3201.4	4682.8	4933.1	4183.2	2676.0	2067.0	1948.1	1486.3
2571.0	70°	2921.7	4300.4	4374.8	3799.3	2353.6	1520.3	1315.6	953.8
2421.1	72.5°	2635.1	3790.3	3636.3	3299.5	2068.6	1107.0	948.9	678.0
2207.6	75°	2294.7	3119.5	2864.3	2741.4	1712.7	868.8	686.5	467.9
1898.9	77.5°	1837.6	2195.8	2127.5	2125.0	1287.0	634.8	458.1	293.3
1483.5	80°	1296.3	1425.1	1390.3	1600.4	863.4	460.4	275.8	163.3
1032.6	82.5°	627.5	788.0	808.8	953.0	420.0	270.9	63.6	35.5
403.8	85°	245.7	380.1	320.6	361.8	117.9	75.5	1.5	0.0
66.4	87.5°	27.6	44.0	40.4	31.9	14.4	3.1	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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