

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: P945702

Luminaire Tested: **GALN-SB1C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945702
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-SB1C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA 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: 4972 lumens
Efficiency: N/A
Efficacy: 91.4 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

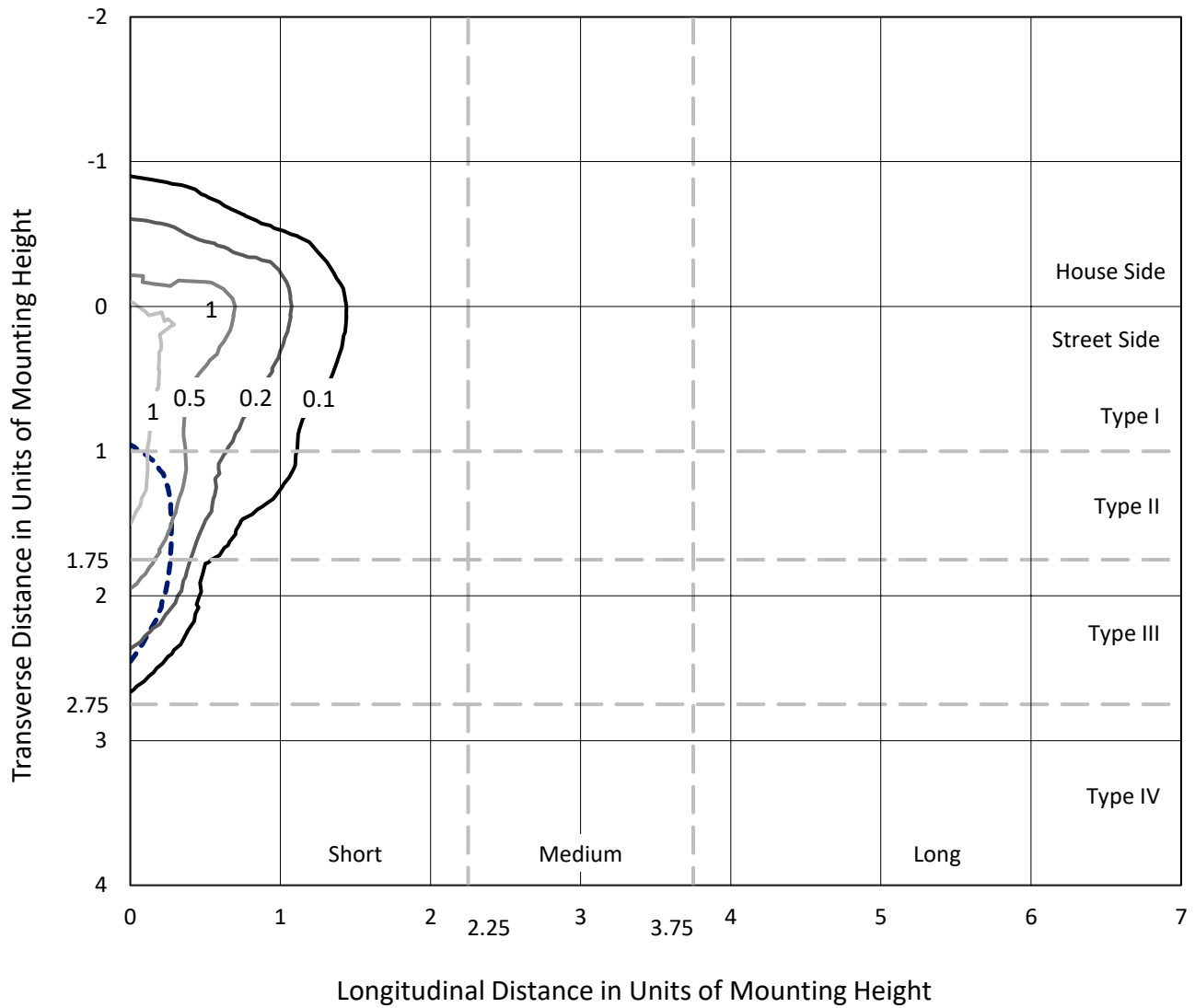
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

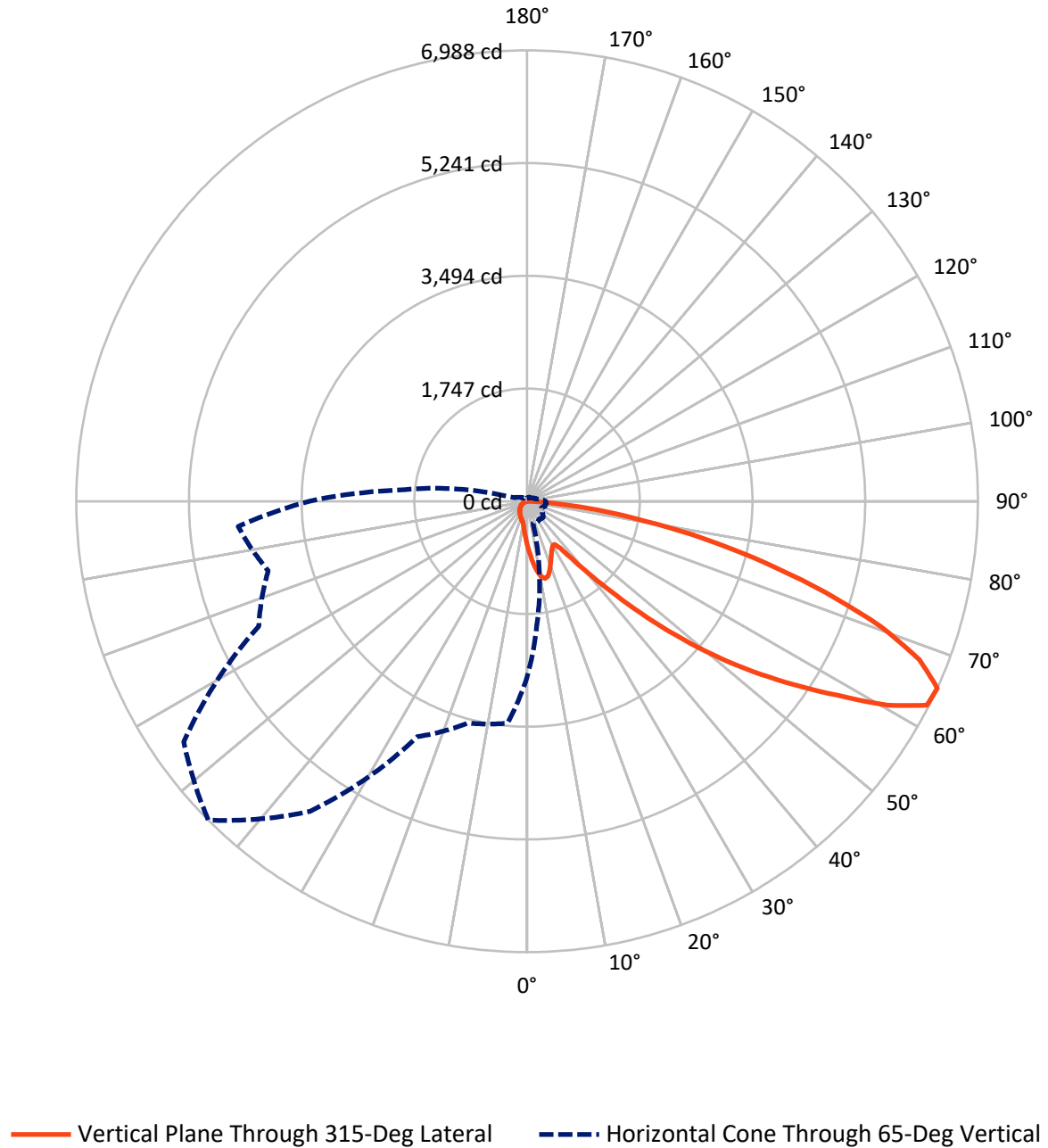
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	696.3	0.0	696.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4275.7	0.0	4275.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	4972.0	0.0	4972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.4
10°-20°	203.2	4.1
20°-30°	299.3	6.0
30°-40°	384.6	7.7
40°-50°	622.0	12.5
50°-60°	1090.7	21.9
60°-70°	1364.7	27.4
70°-80°	797.5	16.0
80°-90°	142.3	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°	4972.0	100.0
0°-180°	4972.0	100.0

Coefficient of Utilization



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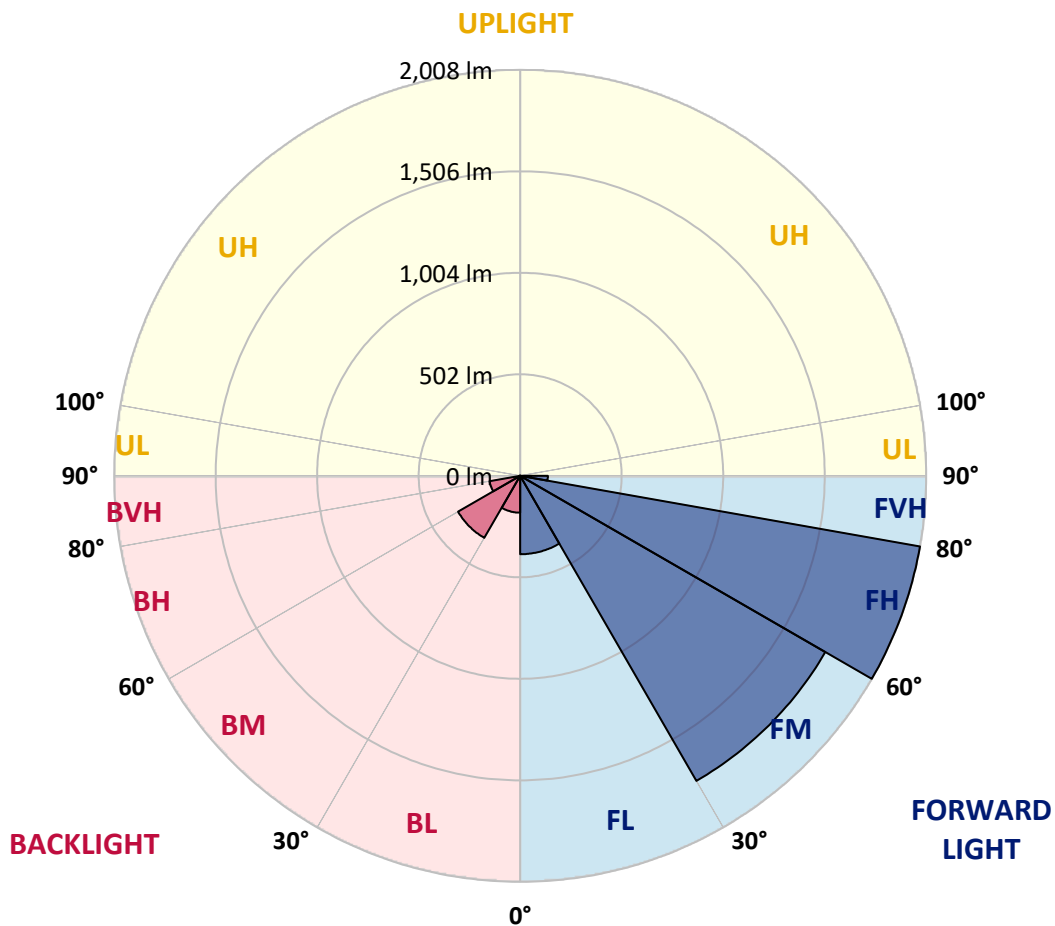
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	387.8	7.8			
FM (30°-60°)	1742.6	35.0			
FH (60°-80°)	2008.5	40.4			G2/5000
FVH (80°-90°)	136.8	2.8			G2/225
BL (0°-30°)	182.5	3.7	B1/500		
BM (30°-60°)	354.6	7.1	B1/1000		
BH (60°-80°)	153.7	3.1	B1/500		G1/500
BVH (80°-90°)	5.5	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°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
2.5°	777.9	764.5	756.6	737.1	717.6	701.8	680.6	666.5	649.8	633.7
5°	866.9	845.3	819.3	783.7	751.1	717.9	685.7	653.9	620.3	589.5
7.5°	942.3	911.1	865.2	817.9	776.5	736.4	698.7	656.6	615.8	567.6
10°	999.8	960.1	899.8	837.8	790.2	749.8	713.1	677.5	636.4	578.2
12.5°	1034.7	992.3	920.7	848.1	793.6	748.4	720.0	704.2	688.1	630.2
15°	1060.4	1014.5	935.4	855.3	785.7	730.3	709.4	725.1	743.6	706.6
17.5°	1087.2	1038.9	954.6	858.4	764.5	695.0	686.1	726.8	769.6	767.9
20°	1112.5	1064.5	971.4	856.3	730.3	652.2	660.0	712.1	761.8	782.7
22.5°	1141.6	1090.9	987.5	848.4	685.7	612.1	636.7	688.8	732.3	757.0
25°	1177.2	1124.1	1010.1	836.8	637.8	578.9	613.1	661.7	697.0	714.2
27.5°	1215.6	1163.9	1040.2	830.6	599.1	555.2	586.4	629.5	661.1	673.0
30°	1263.2	1210.1	1075.9	823.8	573.7	541.5	558.6	592.2	623.0	635.0
32.5°	1315.3	1261.5	1110.1	807.3	558.3	531.2	531.6	552.8	580.9	595.3
35°	1380.4	1323.2	1146.8	771.4	546.0	519.3	505.2	515.5	538.8	555.9
37.5°	1473.2	1404.0	1191.6	720.0	527.8	500.8	477.5	479.9	497.7	516.5
40°	1601.3	1512.6	1244.4	666.5	501.8	474.7	447.0	446.0	459.0	477.5
42.5°	1774.6	1656.1	1307.7	615.5	476.8	443.2	414.8	413.1	423.4	439.5
45°	2003.4	1839.7	1385.5	571.7	457.3	412.4	384.3	383.6	392.2	406.2
47.5°	2296.2	2094.8	1463.2	541.9	447.0	388.1	359.3	360.7	368.2	380.9
50°	2675.4	2427.4	1486.9	526.8	447.0	375.1	337.0	343.9	350.1	359.6
52.5°	3129.9	2746.7	1408.8	513.1	449.7	376.8	318.2	332.9	337.4	345.6
55°	3551.2	2903.2	1211.1	494.3	450.4	387.4	302.1	324.0	332.2	335.3
57.5°	3795.8	2849.4	979.3	462.4	447.7	394.6	291.8	313.1	328.8	330.9
60°	3749.2	2660.7	721.0	438.1	427.5	391.8	288.7	296.3	321.3	324.4
62.5°	3390.3	2344.2	500.4	419.2	382.9	379.9	287.7	269.9	304.8	312.4
65°	2725.1	1845.5	353.5	361.0	335.7	353.8	282.2	242.5	285.0	295.3
67.5°	1977.0	1248.8	255.2	292.5	304.2	311.7	269.9	222.6	262.4	276.1
70°	1268.7	674.4	179.1	193.2	256.2	264.8	248.7	204.8	239.4	255.2
72.5°	901.9	398.3	128.8	135.3	205.9	220.6	218.9	185.0	212.7	231.9
75°	622.4	219.6	87.0	96.6	149.3	179.1	168.9	158.9	180.2	199.7
77.5°	390.1	98.3	52.1	67.1	98.0	140.8	115.8	123.0	140.4	158.6
80°	217.2	38.0	29.1	44.5	53.4	102.4	64.1	79.1	103.4	116.5
82.5°	47.3	4.8	13.0	19.2	20.9	59.6	33.9	45.9	65.1	64.1
85°	0.0	0.0	2.4	2.7	1.4	25.7	12.3	15.1	21.2	19.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
619.3	2.5°	616.5	599.8	587.4	581.3	576.1	580.9	583.7	583.7	595.3	602.1
570.6	5°	558.6	528.5	505.6	490.1	480.9	484.0	487.4	491.2	505.9	515.8
541.9	7.5°	518.6	472.3	437.4	415.8	404.5	406.2	408.6	411.7	426.1	436.0
546.0	10°	511.0	444.6	395.3	366.8	353.1	350.7	349.4	348.3	356.9	364.4
592.6	12.5°	541.9	446.0	377.1	342.5	325.7	318.5	310.3	303.8	305.2	310.0
663.1	15°	597.0	463.4	371.3	329.8	309.0	297.0	287.4	279.5	277.8	279.5
724.8	17.5°	660.0	487.1	370.6	318.9	292.9	280.5	272.6	265.5	263.1	263.4
759.4	20°	701.8	505.9	368.6	306.6	277.4	266.5	259.6	252.4	250.0	250.7
749.8	22.5°	705.9	515.8	365.5	292.9	262.0	252.8	245.9	239.4	239.1	239.1
713.8	25°	683.7	515.8	359.0	280.5	247.3	239.1	232.9	225.0	226.4	227.1
673.0	27.5°	649.1	503.5	346.6	270.6	234.6	226.1	219.9	212.7	214.4	215.4
635.0	30°	614.8	487.7	331.9	259.3	222.6	212.7	208.3	202.1	202.8	204.1
597.4	32.5°	583.0	471.0	314.4	250.0	210.6	200.7	197.3	190.4	191.5	192.8
560.4	35°	551.5	452.5	293.9	239.1	199.7	189.8	187.0	179.1	179.8	181.9
523.4	37.5°	517.5	432.9	277.1	228.1	189.1	178.8	176.1	167.8	168.5	170.9
485.0	40°	481.9	413.8	260.7	216.5	177.8	167.5	165.1	156.2	156.9	159.6
447.3	42.5°	446.0	392.9	248.0	201.4	166.1	155.2	152.8	144.5	145.6	148.7
414.4	45°	412.7	367.9	239.8	184.6	155.2	142.8	140.4	132.9	135.0	138.4
386.7	47.5°	384.3	342.2	236.3	170.6	143.5	130.2	128.1	121.9	125.4	129.1
363.1	50°	360.0	317.5	231.9	156.2	132.6	119.2	117.1	113.0	117.5	121.3
347.0	52.5°	342.5	289.4	222.3	143.2	123.0	109.9	109.3	107.2	111.3	114.7
335.0	55°	327.4	260.3	206.9	131.9	114.4	102.1	102.8	101.7	105.2	107.9
327.8	57.5°	313.7	235.0	187.4	123.0	105.2	95.2	97.3	95.9	97.6	99.3
320.3	60°	297.3	209.3	164.1	113.0	94.2	88.4	90.8	87.0	86.7	87.3
306.6	62.5°	273.0	174.7	139.7	100.7	84.6	80.8	81.9	74.7	69.2	69.2
286.3	65°	239.1	140.4	117.1	87.0	73.6	70.6	69.9	59.6	52.1	51.4
264.4	67.5°	199.7	115.4	97.3	73.3	61.3	59.3	59.9	52.4	44.9	44.2
242.5	70°	162.7	95.6	78.4	58.6	47.3	49.3	52.4	44.9	37.7	36.6
216.8	72.5°	132.2	76.0	61.3	44.9	34.9	40.8	44.5	36.6	29.8	29.1
185.0	75°	102.1	55.8	43.8	30.5	25.3	31.5	34.9	26.7	21.2	20.2
143.2	77.5°	68.2	34.6	24.7	19.2	15.1	21.6	23.3	14.0	12.3	12.0
104.1	80°	41.4	16.1	10.6	9.2	5.1	7.9	9.2	5.8	6.5	6.9
55.5	82.5°	20.9	4.5	1.7	0.3	0.0	0.0	2.7	1.4	2.7	3.4
15.1	85°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7
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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
604.9	2.5°	624.1	638.5	652.2	674.1	696.7	718.9	741.6	763.5	771.4	777.2
522.3	5°	552.1	579.2	610.7	654.2	700.8	748.7	797.4	841.9	862.1	875.8
444.6	7.5°	477.8	513.1	558.3	623.7	696.7	773.1	849.4	919.7	952.2	978.6
371.3	10°	404.2	442.5	499.7	574.4	673.0	782.7	888.2	984.7	1026.9	1060.1
318.5	12.5°	339.4	375.4	435.3	517.9	636.1	775.1	910.4	1026.5	1076.2	1113.5
280.9	15°	293.9	319.2	372.3	461.4	592.2	750.8	911.8	1046.4	1100.9	1139.9
265.1	17.5°	268.5	277.1	311.7	403.8	543.6	718.9	899.1	1053.2	1111.5	1147.8
251.1	20°	254.8	256.2	265.8	329.2	481.2	689.1	887.1	1060.1	1121.4	1151.9
241.1	22.5°	243.9	243.9	246.3	269.2	400.7	653.5	883.4	1072.1	1135.1	1153.9
229.8	25°	233.9	233.9	234.6	240.8	317.5	599.1	881.0	1090.6	1153.9	1159.1
218.5	27.5°	223.7	224.0	224.0	227.4	255.9	525.1	870.7	1114.6	1176.6	1165.9
207.6	30°	213.4	214.1	214.1	216.5	226.4	438.4	850.5	1143.3	1206.0	1174.8
196.6	32.5°	203.1	203.8	203.8	205.9	213.0	350.1	825.1	1169.7	1235.8	1178.6
186.0	35°	192.5	193.5	192.8	195.6	203.1	278.5	792.9	1196.1	1268.0	1190.6
175.7	37.5°	181.9	182.6	182.2	185.0	193.5	240.4	755.6	1215.9	1311.8	1217.3
164.8	40°	171.3	170.9	170.9	174.0	183.2	229.5	708.7	1247.5	1374.9	1264.2
153.8	42.5°	160.3	160.3	159.6	163.0	174.3	221.3	663.8	1304.0	1466.7	1338.9
143.5	45°	150.4	150.0	148.7	151.7	165.8	206.9	648.0	1409.5	1602.3	1459.8
133.2	47.5°	140.8	140.4	137.0	139.7	155.5	193.9	707.0	1582.1	1790.3	1637.6
125.0	50°	132.2	132.6	126.0	128.4	145.2	183.9	834.7	1806.1	2040.0	1877.0
118.2	52.5°	124.3	124.3	115.8	117.1	132.6	175.0	956.3	2048.9	2369.5	2211.0
111.0	55°	116.5	115.8	106.2	106.9	119.9	162.4	974.5	2286.0	2818.9	2713.4
103.1	57.5°	107.6	106.2	97.3	97.3	108.2	153.1	844.7	2468.2	3376.6	3451.9
88.4	60°	96.6	95.6	89.7	88.0	99.0	161.3	596.0	2489.4	3736.2	4433.9
70.2	62.5°	82.5	83.9	80.8	78.4	90.1	167.5	353.1	2318.5	3649.2	4746.3
54.5	65°	65.1	70.6	69.9	68.2	99.0	141.1	208.6	1990.4	3382.4	4494.2
47.6	67.5°	55.5	59.3	58.2	58.2	103.8	107.2	131.2	1555.0	3015.2	4195.2
39.7	70°	47.3	51.0	47.3	47.3	78.4	65.1	90.8	1085.8	2618.9	3864.3
31.9	72.5°	39.0	42.8	38.7	36.0	62.7	48.6	66.4	678.5	2242.8	3519.7
22.6	75°	29.8	34.3	31.2	27.7	41.4	36.3	50.4	394.2	1858.2	3011.4
13.7	77.5°	18.8	24.7	23.3	19.5	30.5	26.4	36.3	234.6	1433.8	2353.1
8.2	80°	11.6	12.7	13.0	12.3	17.5	17.8	24.7	133.6	981.3	1640.0
5.1	82.5°	7.5	7.5	5.8	6.5	8.6	10.3	14.0	50.4	576.8	998.4
3.1	85°	5.5	4.8	3.1	3.1	4.1	5.1	5.5	15.4	233.9	394.2
1.4	87.5°	2.7	2.4	1.0	1.4	2.1	1.7	1.4	0.7	58.9	126.0
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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
790.2	2.5°	797.0	807.7	808.3	808.3	799.1	798.8	779.9	777.9
906.6	5°	938.5	945.4	947.1	943.6	925.1	911.4	874.8	866.9
1025.5	7.5°	1068.0	1081.7	1081.7	1073.5	1043.3	1015.2	962.1	942.3
1123.8	10°	1171.4	1187.2	1183.7	1167.0	1128.9	1090.2	1025.8	999.8
1183.4	12.5°	1221.8	1237.9	1229.0	1209.8	1172.8	1132.0	1064.2	1034.7
1200.5	15°	1220.7	1216.3	1207.0	1204.6	1186.8	1156.0	1092.6	1060.4
1189.9	17.5°	1177.2	1139.6	1132.4	1156.3	1178.9	1171.4	1117.3	1087.2
1164.6	20°	1108.4	1042.6	1036.1	1082.0	1146.4	1179.3	1140.2	1112.5
1127.9	22.5°	1035.8	964.9	949.8	1000.5	1097.4	1181.7	1169.4	1141.6
1087.5	25°	966.9	895.7	880.6	927.9	1043.0	1177.6	1200.9	1177.2
1048.8	27.5°	909.4	840.5	826.5	873.8	990.6	1165.9	1232.4	1215.6
1010.4	30°	864.9	801.2	790.9	836.4	945.4	1151.5	1272.5	1263.2
974.8	32.5°	838.8	792.2	796.0	833.3	921.0	1135.8	1310.8	1315.3
957.3	35°	864.5	866.6	899.5	914.9	943.6	1133.4	1362.9	1380.4
978.2	37.5°	992.3	1063.5	1131.7	1119.0	1054.3	1161.1	1440.6	1473.2
1069.3	40°	1209.8	1356.0	1466.7	1418.4	1255.3	1246.1	1552.6	1601.3
1231.0	42.5°	1475.6	1723.6	1905.8	1776.3	1514.6	1394.7	1712.6	1774.6
1426.6	45°	1756.1	2176.7	2463.7	2194.5	1791.0	1603.0	1954.8	2003.4
1609.8	47.5°	2051.7	2727.5	3098.8	2658.3	2047.2	1840.0	2284.9	2296.2
1783.5	50°	2375.0	3331.3	3746.1	3121.7	2294.5	2111.6	2688.4	2675.4
1985.9	52.5°	2683.0	3952.3	4379.8	3587.2	2511.7	2448.7	3156.7	3129.9
2262.7	55°	2976.8	4573.0	5017.2	4034.5	2716.5	2893.9	3712.9	3551.2
2661.7	57.5°	3317.6	5130.9	5674.2	4483.9	3002.9	3472.1	4334.9	3795.8
3425.9	60°	3821.5	5764.9	6417.1	5099.8	3547.5	4079.7	4557.9	3749.2
4341.1	62.5°	4464.7	6347.9	6957.2	5703.3	4094.5	4194.1	4229.4	3390.3
4154.4	65°	4589.8	6495.5	6987.7	5864.6	4023.9	3557.7	3452.9	2725.1
3710.8	67.5°	4258.2	6228.7	6561.6	5564.2	3559.5	2749.4	2591.2	1977.0
3419.7	70°	3886.2	5720.1	5819.1	5053.5	3130.6	2022.2	1749.9	1268.7
3220.4	72.5°	3505.0	5041.5	4836.7	4388.7	2751.5	1472.5	1262.2	901.9
2936.4	75°	3052.2	4149.3	3809.8	3646.5	2278.1	1155.7	913.2	622.4
2525.7	77.5°	2444.2	2920.7	2829.9	2826.5	1711.9	844.3	609.3	390.1
1973.3	80°	1724.2	1895.5	1849.3	2128.8	1148.5	612.4	366.8	217.2
1373.5	82.5°	834.7	1048.1	1075.9	1267.7	558.6	360.3	84.6	47.3
537.1	85°	326.8	505.6	426.4	481.2	156.9	100.4	2.1	0.0
88.4	87.5°	36.6	58.6	53.8	42.5	19.2	4.1	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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