

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: P946582

Luminaire Tested: **GALN-SB2A-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946582
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-SB2A-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4961 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

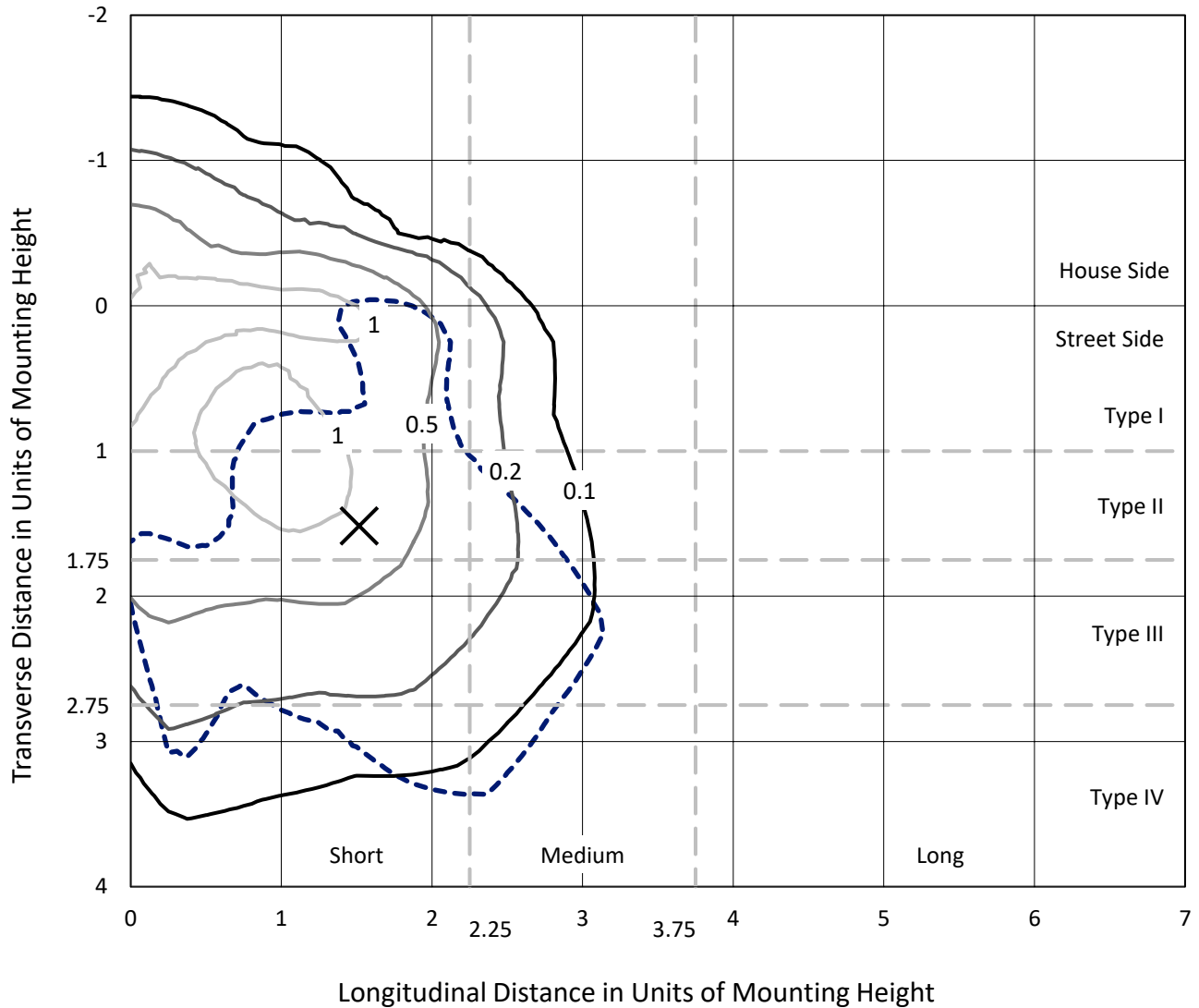
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

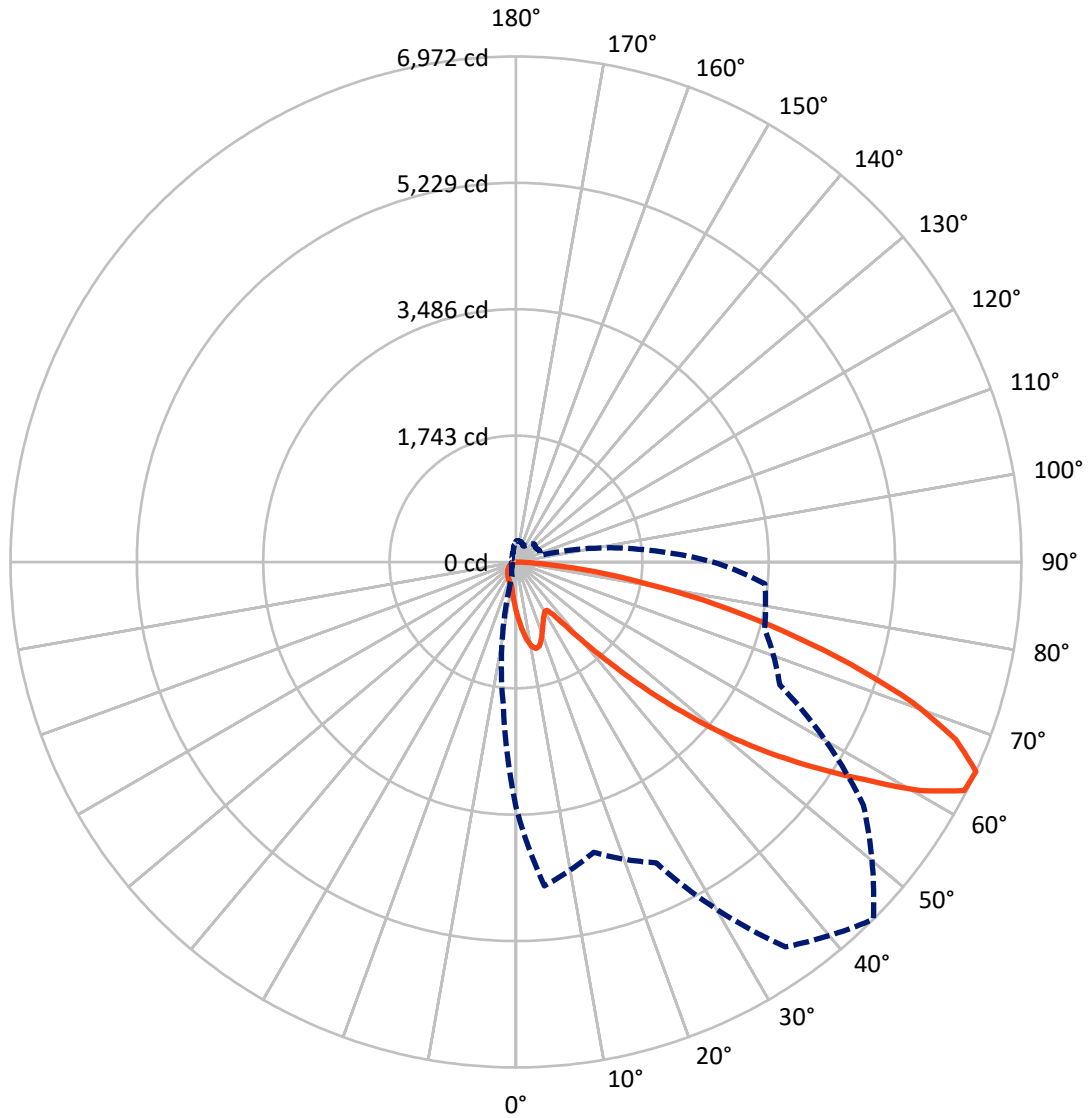
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	986.1	0.0	986.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3974.9	0.0	3974.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	4961.0	0.0	4961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.4
10°-20°	202.7	4.1
20°-30°	298.7	6.0
30°-40°	383.7	7.7
40°-50°	620.6	12.5
50°-60°	1088.3	21.9
60°-70°	1361.7	27.4
70°-80°	795.7	16.0
80°-90°	142.0	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°	4961.0	100.0
0°-180°	4961.0	100.0

Coefficient of Utilization



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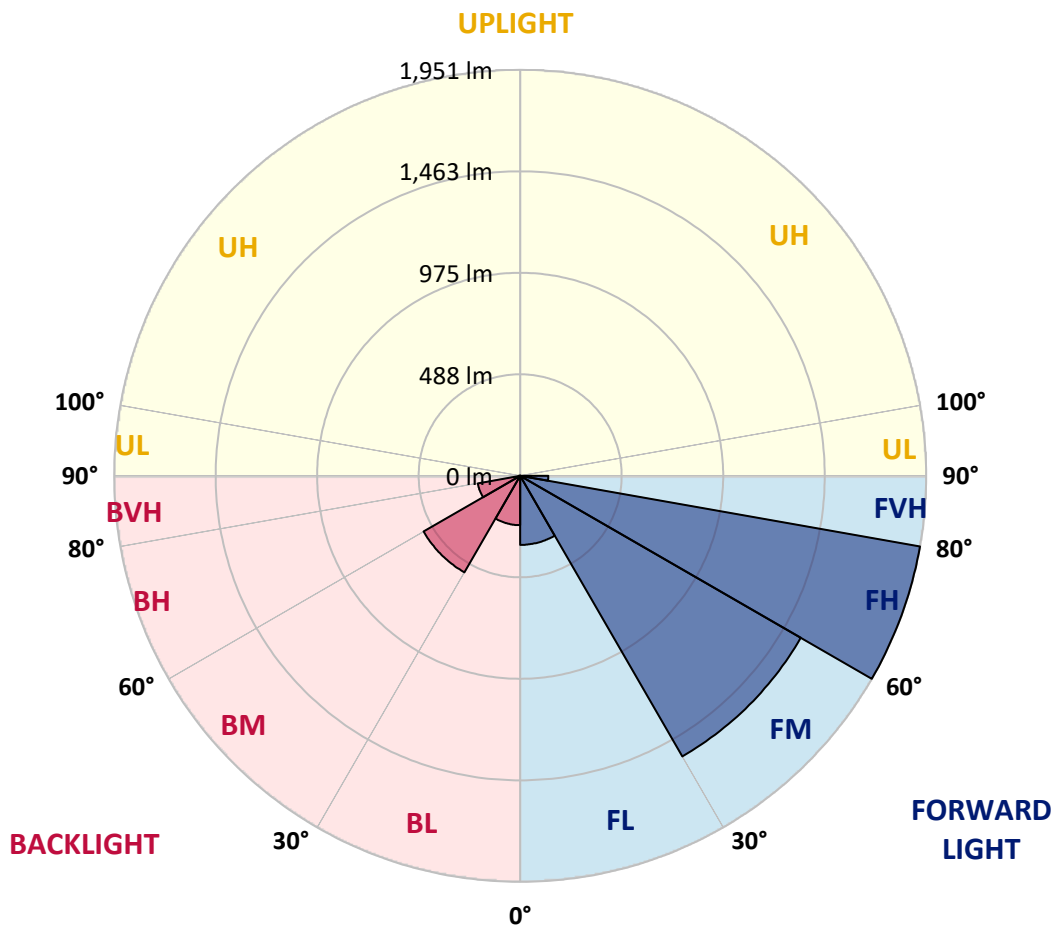
CATALOG NUMBER: GALN-SB2A-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.9	6.7			
FM (30°-60°)	1556.8	31.4			
FH (60°-80°)	1950.8	39.3			G2/5000
FVH (80°-90°)	135.3	2.7			G2/225
BL (0°-30°)	237.1	4.8	B1/500		
BM (30°-60°)	535.7	10.8	B1/1000		
BH (60°-80°)	206.6	4.2	B1/500		G1/500
BVH (80°-90°)	6.6	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°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	769.6	775.5	788.4	795.3	805.9	806.6	806.6	797.3	797.0	778.2
5°	860.2	873.9	904.6	936.4	943.3	945.0	941.6	923.1	909.4	872.9
7.5°	950.1	976.4	1023.2	1065.6	1079.3	1079.3	1071.1	1041.0	1013.0	960.0
10°	1024.6	1057.8	1121.3	1168.8	1184.5	1181.1	1164.4	1126.4	1087.8	1023.6
12.5°	1073.8	1111.1	1180.8	1219.1	1235.1	1226.2	1207.1	1170.2	1129.5	1061.9
15°	1098.4	1137.4	1197.9	1218.0	1213.6	1204.4	1202.0	1184.2	1153.4	1090.2
17.5°	1109.0	1145.2	1187.3	1174.6	1137.0	1129.9	1153.8	1176.3	1168.8	1114.8
20°	1118.9	1149.3	1162.0	1105.9	1040.3	1033.8	1079.6	1143.9	1176.7	1137.7
22.5°	1132.6	1151.4	1125.4	1033.5	962.7	947.7	998.3	1095.0	1179.1	1166.8
25°	1151.4	1156.5	1085.1	964.8	893.7	878.7	925.8	1040.7	1175.0	1198.2
27.5°	1173.9	1163.4	1046.5	907.4	838.7	824.7	871.8	988.4	1163.4	1229.7
30°	1203.3	1172.2	1008.2	862.9	799.4	789.1	834.6	943.3	1149.0	1269.6
32.5°	1233.1	1176.0	972.7	837.0	790.5	794.3	831.5	919.0	1133.3	1307.9
35°	1265.2	1188.0	955.2	862.6	864.7	897.5	912.8	941.6	1130.9	1359.9
37.5°	1308.9	1214.6	976.1	990.1	1061.2	1129.2	1116.5	1051.9	1158.6	1437.4
40°	1371.8	1261.4	1067.0	1207.1	1353.0	1463.4	1415.2	1252.6	1243.3	1549.2
42.5°	1463.4	1335.9	1228.3	1472.3	1719.7	1901.6	1772.4	1511.3	1391.7	1708.8
45°	1598.8	1456.6	1423.4	1752.2	2171.9	2458.3	2189.7	1787.1	1599.4	1950.4
47.5°	1786.4	1634.0	1606.3	2047.1	2721.4	3091.9	2652.4	2042.7	1835.9	2279.9
50°	2035.5	1872.9	1779.5	2369.8	3324.0	3737.8	3114.8	2289.5	2107.0	2682.5
52.5°	2364.3	2206.1	1981.5	2677.0	3943.6	4370.1	3579.3	2506.1	2443.2	3149.7
55°	2812.7	2707.4	2257.7	2970.2	4562.9	5006.1	4025.6	2710.5	2887.5	3704.7
57.5°	3369.1	3444.3	2655.8	3310.3	5119.6	5661.6	4474.0	2996.2	3464.4	4325.3
60°	3727.9	4424.1	3418.3	3813.0	5752.2	6402.9	5088.5	3539.6	4070.7	4547.8
62.5°	3641.1	4735.8	4331.5	4454.9	6333.9	6941.9	5690.7	4085.4	4184.9	4220.1
65°	3374.9	4484.2	4145.2	4579.6	6481.2	6972.3	5851.6	4015.0	3549.9	3445.3
67.5°	3008.5	4185.9	3702.6	4248.8	6214.9	6547.1	5551.9	3551.6	2743.3	2585.4
70°	2613.1	3855.7	3412.1	3877.6	5707.4	5806.2	5042.3	3123.7	2017.8	1746.1
72.5°	2237.9	3511.9	3213.2	3497.2	5030.4	4826.0	4379.0	2745.4	1469.2	1259.4
75°	1854.1	3004.8	2929.9	3045.4	4140.1	3801.4	3638.4	2273.1	1153.1	911.1
77.5°	1430.6	2347.9	2520.1	2438.8	2914.2	2823.6	2820.2	1708.1	842.4	608.0
80°	979.1	1636.4	1968.9	1720.4	1891.3	1845.2	2124.0	1145.9	611.1	366.0
82.5°	575.5	996.2	1370.5	832.9	1045.8	1073.5	1264.9	557.4	359.5	84.4
85°	233.4	393.4	535.9	326.0	504.4	425.5	480.2	156.5	100.1	2.1
87.5°	58.8	125.8	88.2	36.6	58.4	53.7	42.4	19.1	4.1	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°
686.9	0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
776.1	2.5°	762.8	755.0	735.5	716.0	700.3	679.1	665.1	648.3	632.3	617.9
865.0	5°	843.5	817.5	781.9	749.5	716.3	684.2	652.4	618.9	588.2	569.4
940.2	7.5°	909.1	863.3	816.1	774.8	734.8	697.2	655.2	614.5	566.3	540.7
997.6	10°	958.0	897.8	835.9	788.4	748.1	711.5	676.0	635.0	576.9	544.8
1032.5	12.5°	990.1	918.7	846.2	791.9	746.7	718.4	702.7	686.6	628.8	591.2
1058.1	15°	1012.3	933.3	853.4	784.0	728.6	707.8	723.5	742.0	705.1	661.6
1084.7	17.5°	1036.6	952.5	856.5	762.8	693.4	684.5	725.2	767.9	766.2	723.2
1110.0	20°	1062.2	969.2	854.4	728.6	650.7	658.6	710.5	760.1	780.9	757.7
1139.1	22.5°	1088.5	985.3	846.5	684.2	610.7	635.3	687.3	730.7	755.3	748.1
1174.6	25°	1121.7	1007.9	834.9	636.4	577.6	611.8	660.3	695.5	712.6	712.2
1212.9	27.5°	1161.3	1037.9	828.8	597.7	554.0	585.1	628.2	659.6	671.6	671.6
1260.4	30°	1207.4	1073.5	821.9	572.4	540.3	557.4	590.9	621.7	633.6	633.6
1312.4	32.5°	1258.7	1107.6	805.5	557.1	530.1	530.4	551.6	579.6	594.0	596.0
1377.3	35°	1320.2	1144.2	769.6	544.8	518.1	504.1	514.4	537.6	554.7	559.1
1469.9	37.5°	1400.9	1189.0	718.4	526.7	499.7	476.4	478.8	496.6	515.4	522.2
1597.7	40°	1509.2	1241.6	665.1	500.7	473.7	446.0	445.0	458.0	476.4	483.9
1770.7	42.5°	1652.4	1304.8	614.1	475.7	442.2	413.9	412.2	422.4	438.5	446.3
1999.0	45°	1835.6	1382.4	570.4	456.3	411.5	383.5	382.8	391.3	405.3	413.5
2291.2	47.5°	2090.2	1460.0	540.7	446.0	387.2	358.5	359.9	367.4	380.0	385.8
2669.5	50°	2422.1	1483.6	525.6	446.0	374.2	336.3	343.1	349.3	358.8	362.3
3123.0	52.5°	2740.6	1405.7	512.0	448.7	375.9	317.5	332.2	336.6	344.8	346.2
3543.4	55°	2896.8	1208.5	493.2	449.4	386.5	301.4	323.3	331.5	334.6	334.2
3787.4	57.5°	2843.1	977.1	461.4	446.7	393.7	291.2	312.4	328.1	330.1	327.1
3740.9	60°	2654.8	719.4	437.1	426.5	391.0	288.1	295.6	320.6	323.6	319.5
3382.8	62.5°	2339.0	499.3	418.3	382.1	379.0	287.1	269.3	304.2	311.7	305.9
2719.1	65°	1841.4	352.7	360.2	334.9	353.0	281.6	242.0	284.3	294.6	285.7
1972.6	67.5°	1246.1	254.6	291.9	303.5	311.0	269.3	222.1	261.8	275.5	263.8
1265.9	70°	672.9	178.7	192.8	255.6	264.2	248.1	204.4	238.9	254.6	242.0
899.9	72.5°	397.5	128.5	135.0	205.4	220.1	218.4	184.6	212.2	231.4	216.3
621.0	75°	219.1	86.8	96.4	149.0	178.7	168.5	158.6	179.8	199.2	184.6
389.3	77.5°	98.1	51.9	67.0	97.7	140.5	115.5	122.7	140.1	158.2	142.9
216.7	80°	37.9	29.0	44.4	53.3	102.2	63.9	78.9	103.2	116.2	103.9
47.2	82.5°	4.8	13.0	19.1	20.8	59.5	33.8	45.8	64.9	63.9	55.4
0.0	85°	0.0	2.4	2.7	1.4	25.6	12.3	15.0	21.2	19.8	15.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	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°
686.9	0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
615.2	2.5°	598.4	586.1	580.0	574.8	579.6	582.4	582.4	594.0	600.8	603.6
557.4	5°	527.3	504.4	489.1	479.8	482.9	486.3	490.1	504.8	514.7	521.2
517.4	7.5°	471.3	436.4	414.9	403.6	405.3	407.7	410.8	425.2	435.1	443.6
509.9	10°	443.6	394.4	366.0	352.4	350.0	348.6	347.6	356.1	363.6	370.5
540.7	12.5°	445.0	376.3	341.8	325.0	317.8	309.6	303.1	304.5	309.3	317.8
595.7	15°	462.4	370.5	329.1	308.3	296.3	286.7	278.9	277.2	278.9	280.2
658.6	17.5°	486.0	369.8	318.2	292.2	279.9	272.0	264.9	262.5	262.8	264.5
700.3	20°	504.8	367.7	305.9	276.8	265.9	259.1	251.9	249.5	250.2	250.5
704.4	22.5°	514.7	364.7	292.2	261.4	252.2	245.4	238.9	238.5	238.5	240.6
682.2	25°	514.7	358.2	279.9	246.8	238.5	232.4	224.5	225.9	226.6	229.3
647.6	27.5°	502.4	345.9	270.0	234.1	225.6	219.4	212.2	213.9	215.0	218.0
613.5	30°	486.7	331.2	258.7	222.1	212.2	207.8	201.6	202.3	203.7	207.1
581.7	32.5°	469.9	313.7	249.5	210.2	200.3	196.9	190.0	191.0	192.4	196.2
550.2	35°	451.5	293.2	238.5	199.2	189.3	186.6	178.7	179.4	181.5	185.6
516.4	37.5°	432.0	276.5	227.6	188.7	178.4	175.7	167.5	168.1	170.5	175.3
480.9	40°	412.8	260.1	216.0	177.4	167.1	164.7	155.8	156.5	159.3	164.4
445.0	42.5°	392.0	247.4	201.0	165.8	154.8	152.4	144.2	145.2	148.3	153.5
411.8	45°	367.1	239.2	184.2	154.8	142.5	140.1	132.6	134.7	138.1	143.2
383.5	47.5°	341.4	235.8	170.2	143.2	129.9	127.8	121.7	125.1	128.8	132.9
359.2	50°	316.8	231.4	155.8	132.3	118.9	116.9	112.8	117.2	121.0	124.7
341.8	52.5°	288.8	221.8	142.9	122.7	109.7	109.0	107.0	111.1	114.5	117.9
326.7	55°	259.7	206.4	131.6	114.1	101.8	102.5	101.5	104.9	107.7	110.7
313.1	57.5°	234.4	186.9	122.7	104.9	95.0	97.1	95.7	97.4	99.1	102.9
296.6	60°	208.8	163.7	112.8	94.0	88.2	90.6	86.8	86.5	87.1	88.2
272.4	62.5°	174.3	139.4	100.5	84.4	80.7	81.7	74.5	69.0	69.0	70.1
238.5	65°	140.1	116.9	86.8	73.5	70.4	69.7	59.5	51.9	51.3	54.3
199.2	67.5°	115.2	97.1	73.1	61.2	59.1	59.8	52.3	44.8	44.1	47.5
162.3	70°	95.4	78.3	58.4	47.2	49.2	52.3	44.8	37.6	36.6	39.6
131.9	72.5°	75.9	61.2	44.8	34.9	40.7	44.4	36.6	29.7	29.0	31.8
101.8	75°	55.7	43.7	30.4	25.3	31.4	34.9	26.7	21.2	20.2	22.6
68.0	77.5°	34.5	24.6	19.1	15.0	21.5	23.2	14.0	12.3	12.0	13.7
41.4	80°	16.1	10.6	9.2	5.1	7.9	9.2	5.8	6.5	6.8	8.2
20.8	82.5°	4.4	1.7	0.3	0.0	0.0	2.7	1.4	2.7	3.4	5.1
1.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.7	3.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°
686.9	0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
622.7	2.5°	637.0	650.7	672.6	695.1	717.4	739.9	761.8	769.6
550.9	5°	577.9	609.4	652.8	699.2	747.1	795.6	840.0	860.2
476.8	7.5°	512.0	557.1	622.3	695.1	771.4	847.6	917.6	950.1
403.3	10°	441.6	498.6	573.1	671.6	780.9	886.2	982.6	1024.6
338.7	12.5°	374.6	434.4	516.7	634.7	773.4	908.4	1024.3	1073.8
293.2	15°	318.5	371.5	460.4	590.9	749.1	909.8	1044.1	1098.4
267.9	17.5°	276.5	311.0	402.9	542.4	717.4	897.1	1050.9	1109.0
254.3	20°	255.6	265.2	328.4	480.2	687.6	885.2	1057.8	1118.9
243.3	22.5°	243.3	245.7	268.6	399.9	652.1	881.4	1069.7	1132.6
233.4	25°	233.4	234.1	240.3	316.8	597.7	879.0	1088.2	1151.4
223.2	27.5°	223.5	223.5	226.9	255.3	523.9	868.8	1112.1	1173.9
212.9	30°	213.6	213.6	216.0	225.9	437.5	848.6	1140.8	1203.3
202.7	32.5°	203.3	203.3	205.4	212.6	349.3	823.3	1167.1	1233.1
192.1	35°	193.1	192.4	195.1	202.7	277.9	791.2	1193.4	1265.2
181.5	37.5°	182.2	181.8	184.6	193.1	239.9	753.9	1213.3	1308.9
170.9	40°	170.5	170.5	173.6	182.8	229.0	707.1	1244.7	1371.8
159.9	42.5°	159.9	159.3	162.7	174.0	220.8	662.3	1301.1	1463.4
150.0	45°	149.7	148.3	151.4	165.4	206.4	646.6	1406.3	1598.8
140.5	47.5°	140.1	136.7	139.4	155.2	193.4	705.4	1578.6	1786.4
131.9	50°	132.3	125.8	128.2	144.9	183.5	832.9	1802.1	2035.5
124.1	52.5°	124.1	115.5	116.9	132.3	174.6	954.2	2044.4	2364.3
116.2	55°	115.5	105.9	106.6	119.6	162.0	972.3	2280.9	2812.7
107.3	57.5°	105.9	97.1	97.1	108.0	152.8	842.8	2462.7	3369.1
96.4	60°	95.4	89.5	87.8	98.8	161.0	594.7	2483.9	3727.9
82.4	62.5°	83.7	80.7	78.3	89.9	167.1	352.4	2313.4	3641.1
64.9	65°	70.4	69.7	68.0	98.8	140.8	208.1	1986.0	3374.9
55.4	67.5°	59.1	58.1	58.1	103.6	107.0	130.9	1551.6	3008.5
47.2	70°	50.9	47.2	47.2	78.3	64.9	90.6	1083.4	2613.1
39.0	72.5°	42.7	38.6	35.9	62.5	48.5	66.3	677.0	2237.9
29.7	75°	34.2	31.1	27.7	41.4	36.2	50.2	393.4	1854.1
18.8	77.5°	24.6	23.2	19.5	30.4	26.3	36.2	234.1	1430.6
11.6	80°	12.6	13.0	12.3	17.4	17.8	24.6	133.3	979.1
7.5	82.5°	7.5	5.8	6.5	8.5	10.3	14.0	50.2	575.5
5.5	85°	4.8	3.1	3.1	4.1	5.1	5.5	15.4	233.4
2.7	87.5°	2.4	1.0	1.4	2.1	1.7	1.4	0.7	58.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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