

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: P945700

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945700
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-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA 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: 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

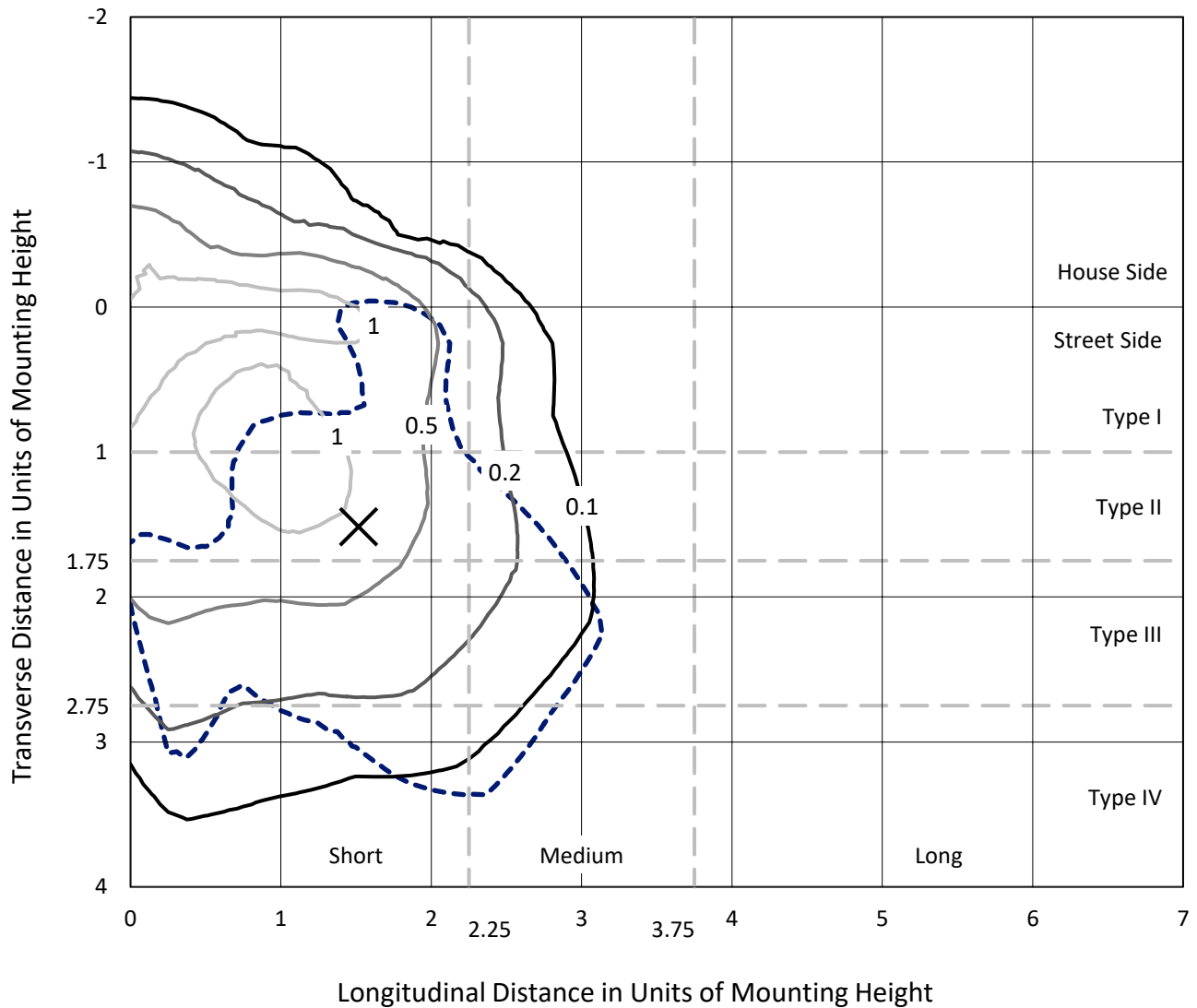
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

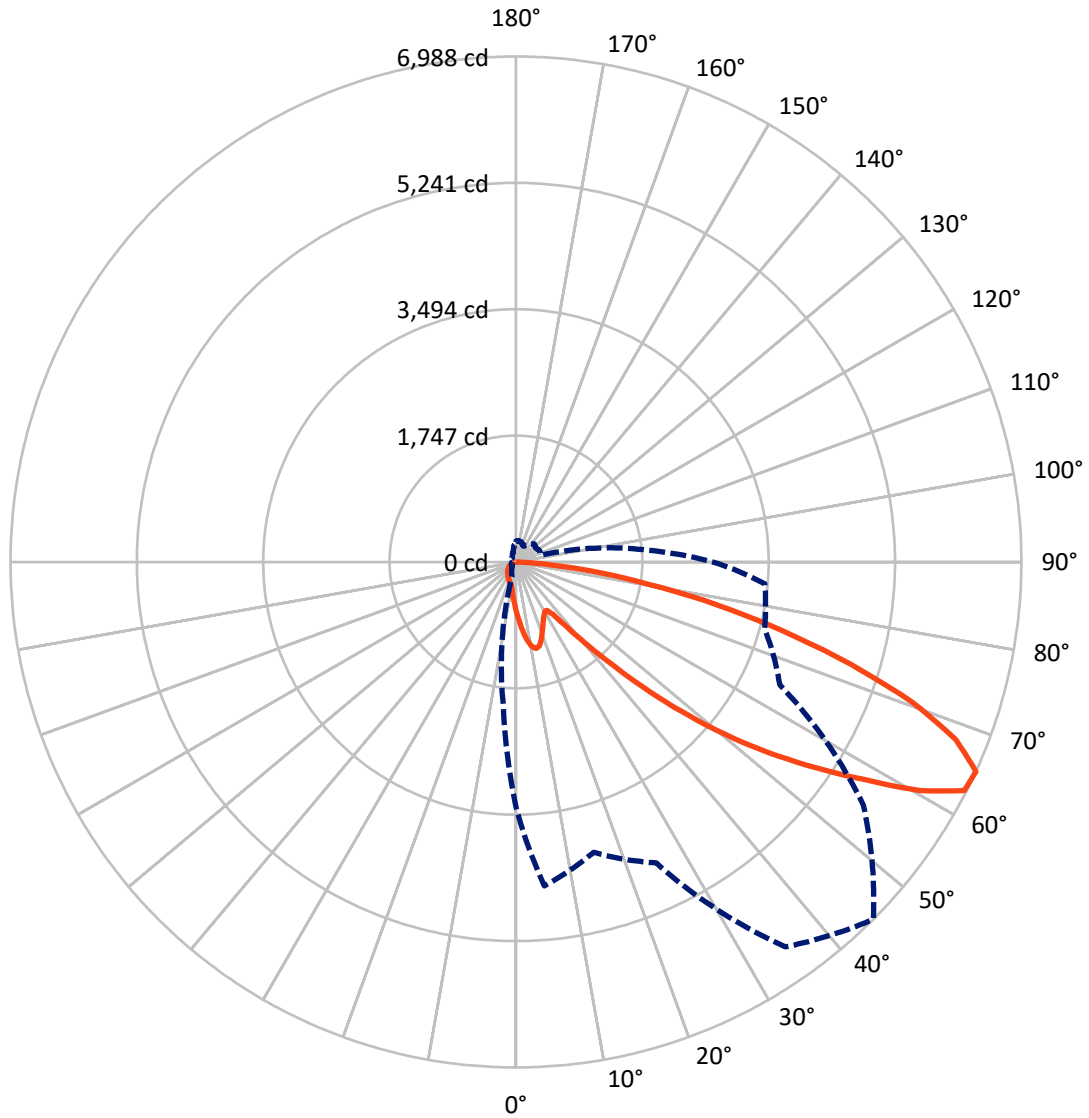
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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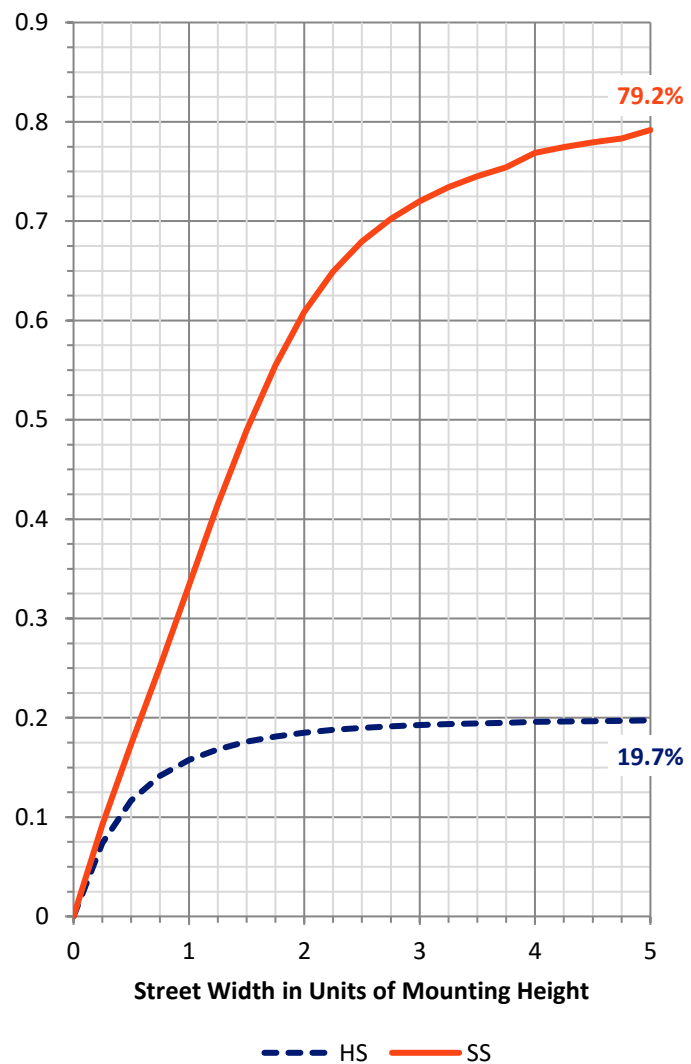
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.3	0.0	988.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3983.7	0.0	3983.7
	% Fixture	80.1	0.0	80.1
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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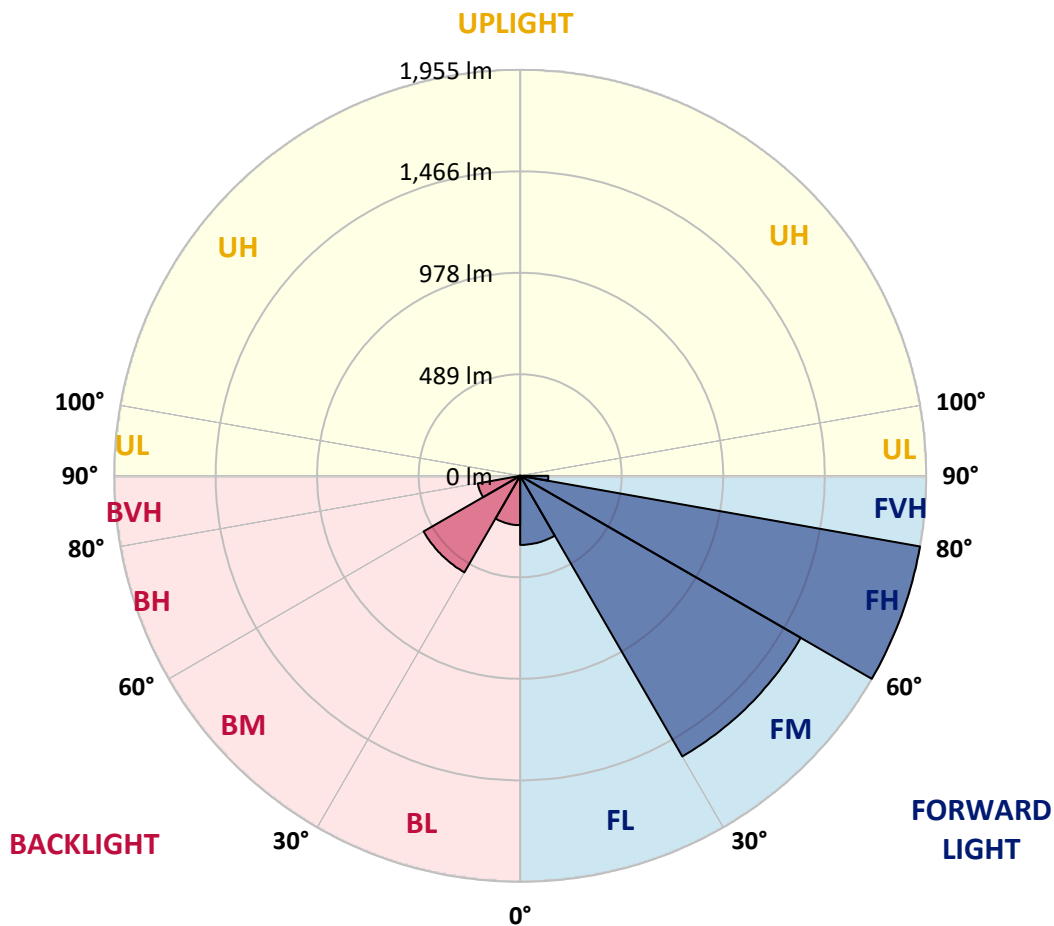
CATALOG NUMBER: GALN-SB1C-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.7	6.7			
FM (30°-60°)	1560.3	31.4			
FH (60°-80°)	1955.1	39.3			G2/5000
FVH (80°-90°)	135.6	2.7			G2/225
BL (0°-30°)	237.6	4.8	B1/500		
BM (30°-60°)	536.9	10.8	B1/1000		
BH (60°-80°)	207.1	4.2	B1/500		G1/500
BVH (80°-90°)	6.7	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°	771.4	777.2	790.2	797.0	807.7	808.3	808.3	799.1	798.8	779.9
5°	862.1	875.8	906.6	938.5	945.4	947.1	943.6	925.1	911.4	874.8
7.5°	952.2	978.6	1025.5	1068.0	1081.7	1081.7	1073.5	1043.3	1015.2	962.1
10°	1026.9	1060.1	1123.8	1171.4	1187.2	1183.7	1167.0	1128.9	1090.2	1025.8
12.5°	1076.2	1113.5	1183.4	1221.8	1237.9	1229.0	1209.8	1172.8	1132.0	1064.2
15°	1100.9	1139.9	1200.5	1220.7	1216.3	1207.0	1204.6	1186.8	1156.0	1092.6
17.5°	1111.5	1147.8	1189.9	1177.2	1139.6	1132.4	1156.3	1178.9	1171.4	1117.3
20°	1121.4	1151.9	1164.6	1108.4	1042.6	1036.1	1082.0	1146.4	1179.3	1140.2
22.5°	1135.1	1153.9	1127.9	1035.8	964.9	949.8	1000.5	1097.4	1181.7	1169.4
25°	1153.9	1159.1	1087.5	966.9	895.7	880.6	927.9	1043.0	1177.6	1200.9
27.5°	1176.6	1165.9	1048.8	909.4	840.5	826.5	873.8	990.6	1165.9	1232.4
30°	1206.0	1174.8	1010.4	864.9	801.2	790.9	836.4	945.4	1151.5	1272.5
32.5°	1235.8	1178.6	974.8	838.8	792.2	796.0	833.3	921.0	1135.8	1310.8
35°	1268.0	1190.6	957.3	864.5	866.6	899.5	914.9	943.6	1133.4	1362.9
37.5°	1311.8	1217.3	978.2	992.3	1063.5	1131.7	1119.0	1054.3	1161.1	1440.6
40°	1374.9	1264.2	1069.3	1209.8	1356.0	1466.7	1418.4	1255.3	1246.1	1552.6
42.5°	1466.7	1338.9	1231.0	1475.6	1723.6	1905.8	1776.3	1514.6	1394.7	1712.6
45°	1602.3	1459.8	1426.6	1756.1	2176.7	2463.7	2194.5	1791.0	1603.0	1954.8
47.5°	1790.3	1637.6	1609.8	2051.7	2727.5	3098.8	2658.3	2047.2	1840.0	2284.9
50°	2040.0	1877.0	1783.5	2375.0	3331.3	3746.1	3121.7	2294.5	2111.6	2688.4
52.5°	2369.5	2211.0	1985.9	2683.0	3952.3	4379.8	3587.2	2511.7	2448.7	3156.7
55°	2818.9	2713.4	2262.7	2976.8	4573.0	5017.2	4034.5	2716.5	2893.9	3712.9
57.5°	3376.6	3451.9	2661.7	3317.6	5130.9	5674.2	4483.9	3002.9	3472.1	4334.9
60°	3736.2	4433.9	3425.9	3821.5	5764.9	6417.1	5099.8	3547.5	4079.7	4557.9
62.5°	3649.2	4746.3	4341.1	4464.7	6347.9	6957.2	5703.3	4094.5	4194.1	4229.4
65°	3382.4	4494.2	4154.4	4589.8	6495.5	6987.7	5864.6	4023.9	3557.7	3452.9
67.5°	3015.2	4195.2	3710.8	4258.2	6228.7	6561.6	5564.2	3559.5	2749.4	2591.2
70°	2618.9	3864.3	3419.7	3886.2	5720.1	5819.1	5053.5	3130.6	2022.2	1749.9
72.5°	2242.8	3519.7	3220.4	3505.0	5041.5	4836.7	4388.7	2751.5	1472.5	1262.2
75°	1858.2	3011.4	2936.4	3052.2	4149.3	3809.8	3646.5	2278.1	1155.7	913.2
77.5°	1433.8	2353.1	2525.7	2444.2	2920.7	2829.9	2826.5	1711.9	844.3	609.3
80°	981.3	1640.0	1973.3	1724.2	1895.5	1849.3	2128.8	1148.5	612.4	366.8
82.5°	576.8	998.4	1373.5	834.7	1048.1	1075.9	1267.7	558.6	360.3	84.6
85°	233.9	394.2	537.1	326.8	505.6	426.4	481.2	156.9	100.4	2.1
87.5°	58.9	126.0	88.4	36.6	58.6	53.8	42.5	19.2	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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
777.9	2.5°	764.5	756.6	737.1	717.6	701.8	680.6	666.5	649.8	633.7	619.3
866.9	5°	845.3	819.3	783.7	751.1	717.9	685.7	653.9	620.3	589.5	570.6
942.3	7.5°	911.1	865.2	817.9	776.5	736.4	698.7	656.6	615.8	567.6	541.9
999.8	10°	960.1	899.8	837.8	790.2	749.8	713.1	677.5	636.4	578.2	546.0
1034.7	12.5°	992.3	920.7	848.1	793.6	748.4	720.0	704.2	688.1	630.2	592.6
1060.4	15°	1014.5	935.4	855.3	785.7	730.3	709.4	725.1	743.6	706.6	663.1
1087.2	17.5°	1038.9	954.6	858.4	764.5	695.0	686.1	726.8	769.6	767.9	724.8
1112.5	20°	1064.5	971.4	856.3	730.3	652.2	660.0	712.1	761.8	782.7	759.4
1141.6	22.5°	1090.9	987.5	848.4	685.7	612.1	636.7	688.8	732.3	757.0	749.8
1177.2	25°	1124.1	1010.1	836.8	637.8	578.9	613.1	661.7	697.0	714.2	713.8
1215.6	27.5°	1163.9	1040.2	830.6	599.1	555.2	586.4	629.5	661.1	673.0	673.0
1263.2	30°	1210.1	1075.9	823.8	573.7	541.5	558.6	592.2	623.0	635.0	635.0
1315.3	32.5°	1261.5	1110.1	807.3	558.3	531.2	531.6	552.8	580.9	595.3	597.4
1380.4	35°	1323.2	1146.8	771.4	546.0	519.3	505.2	515.5	538.8	555.9	560.4
1473.2	37.5°	1404.0	1191.6	720.0	527.8	500.8	477.5	479.9	497.7	516.5	523.4
1601.3	40°	1512.6	1244.4	666.5	501.8	474.7	447.0	446.0	459.0	477.5	485.0
1774.6	42.5°	1656.1	1307.7	615.5	476.8	443.2	414.8	413.1	423.4	439.5	447.3
2003.4	45°	1839.7	1385.5	571.7	457.3	412.4	384.3	383.6	392.2	406.2	414.4
2296.2	47.5°	2094.8	1463.2	541.9	447.0	388.1	359.3	360.7	368.2	380.9	386.7
2675.4	50°	2427.4	1486.9	526.8	447.0	375.1	337.0	343.9	350.1	359.6	363.1
3129.9	52.5°	2746.7	1408.8	513.1	449.7	376.8	318.2	332.9	337.4	345.6	347.0
3551.2	55°	2903.2	1211.1	494.3	450.4	387.4	302.1	324.0	332.2	335.3	335.0
3795.8	57.5°	2849.4	979.3	462.4	447.7	394.6	291.8	313.1	328.8	330.9	327.8
3749.2	60°	2660.7	721.0	438.1	427.5	391.8	288.7	296.3	321.3	324.4	320.3
3390.3	62.5°	2344.2	500.4	419.2	382.9	379.9	287.7	269.9	304.8	312.4	306.6
2725.1	65°	1845.5	353.5	361.0	335.7	353.8	282.2	242.5	285.0	295.3	286.3
1977.0	67.5°	1248.8	255.2	292.5	304.2	311.7	269.9	222.6	262.4	276.1	264.4
1268.7	70°	674.4	179.1	193.2	256.2	264.8	248.7	204.8	239.4	255.2	242.5
901.9	72.5°	398.3	128.8	135.3	205.9	220.6	218.9	185.0	212.7	231.9	216.8
622.4	75°	219.6	87.0	96.6	149.3	179.1	168.9	158.9	180.2	199.7	185.0
390.1	77.5°	98.3	52.1	67.1	98.0	140.8	115.8	123.0	140.4	158.6	143.2
217.2	80°	38.0	29.1	44.5	53.4	102.4	64.1	79.1	103.4	116.5	104.1
47.3	82.5°	4.8	13.0	19.2	20.9	59.6	33.9	45.9	65.1	64.1	55.5
0.0	85°	0.0	2.4	2.7	1.4	25.7	12.3	15.1	21.2	19.9	15.1
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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
616.5	2.5°	599.8	587.4	581.3	576.1	580.9	583.7	583.7	595.3	602.1	604.9
558.6	5°	528.5	505.6	490.1	480.9	484.0	487.4	491.2	505.9	515.8	522.3
518.6	7.5°	472.3	437.4	415.8	404.5	406.2	408.6	411.7	426.1	436.0	444.6
511.0	10°	444.6	395.3	366.8	353.1	350.7	349.4	348.3	356.9	364.4	371.3
541.9	12.5°	446.0	377.1	342.5	325.7	318.5	310.3	303.8	305.2	310.0	318.5
597.0	15°	463.4	371.3	329.8	309.0	297.0	287.4	279.5	277.8	279.5	280.9
660.0	17.5°	487.1	370.6	318.9	292.9	280.5	272.6	265.5	263.1	263.4	265.1
701.8	20°	505.9	368.6	306.6	277.4	266.5	259.6	252.4	250.0	250.7	251.1
705.9	22.5°	515.8	365.5	292.9	262.0	252.8	245.9	239.4	239.1	239.1	241.1
683.7	25°	515.8	359.0	280.5	247.3	239.1	232.9	225.0	226.4	227.1	229.8
649.1	27.5°	503.5	346.6	270.6	234.6	226.1	219.9	212.7	214.4	215.4	218.5
614.8	30°	487.7	331.9	259.3	222.6	212.7	208.3	202.1	202.8	204.1	207.6
583.0	32.5°	471.0	314.4	250.0	210.6	200.7	197.3	190.4	191.5	192.8	196.6
551.5	35°	452.5	293.9	239.1	199.7	189.8	187.0	179.1	179.8	181.9	186.0
517.5	37.5°	432.9	277.1	228.1	189.1	178.8	176.1	167.8	168.5	170.9	175.7
481.9	40°	413.8	260.7	216.5	177.8	167.5	165.1	156.2	156.9	159.6	164.8
446.0	42.5°	392.9	248.0	201.4	166.1	155.2	152.8	144.5	145.6	148.7	153.8
412.7	45°	367.9	239.8	184.6	155.2	142.8	140.4	132.9	135.0	138.4	143.5
384.3	47.5°	342.2	236.3	170.6	143.5	130.2	128.1	121.9	125.4	129.1	133.2
360.0	50°	317.5	231.9	156.2	132.6	119.2	117.1	113.0	117.5	121.3	125.0
342.5	52.5°	289.4	222.3	143.2	123.0	109.9	109.3	107.2	111.3	114.7	118.2
327.4	55°	260.3	206.9	131.9	114.4	102.1	102.8	101.7	105.2	107.9	111.0
313.7	57.5°	235.0	187.4	123.0	105.2	95.2	97.3	95.9	97.6	99.3	103.1
297.3	60°	209.3	164.1	113.0	94.2	88.4	90.8	87.0	86.7	87.3	88.4
273.0	62.5°	174.7	139.7	100.7	84.6	80.8	81.9	74.7	69.2	69.2	70.2
239.1	65°	140.4	117.1	87.0	73.6	70.6	69.9	59.6	52.1	51.4	54.5
199.7	67.5°	115.4	97.3	73.3	61.3	59.3	59.9	52.4	44.9	44.2	47.6
162.7	70°	95.6	78.4	58.6	47.3	49.3	52.4	44.9	37.7	36.6	39.7
132.2	72.5°	76.0	61.3	44.9	34.9	40.8	44.5	36.6	29.8	29.1	31.9
102.1	75°	55.8	43.8	30.5	25.3	31.5	34.9	26.7	21.2	20.2	22.6
68.2	77.5°	34.6	24.7	19.2	15.1	21.6	23.3	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	6.9	8.2
20.9	82.5°	4.5	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°
688.5	0°	688.5	688.5	688.5	688.5	688.5	688.5	688.5	688.5
624.1	2.5°	638.5	652.2	674.1	696.7	718.9	741.6	763.5	771.4
552.1	5°	579.2	610.7	654.2	700.8	748.7	797.4	841.9	862.1
477.8	7.5°	513.1	558.3	623.7	696.7	773.1	849.4	919.7	952.2
404.2	10°	442.5	499.7	574.4	673.0	782.7	888.2	984.7	1026.9
339.4	12.5°	375.4	435.3	517.9	636.1	775.1	910.4	1026.5	1076.2
293.9	15°	319.2	372.3	461.4	592.2	750.8	911.8	1046.4	1100.9
268.5	17.5°	277.1	311.7	403.8	543.6	718.9	899.1	1053.2	1111.5
254.8	20°	256.2	265.8	329.2	481.2	689.1	887.1	1060.1	1121.4
243.9	22.5°	243.9	246.3	269.2	400.7	653.5	883.4	1072.1	1135.1
233.9	25°	233.9	234.6	240.8	317.5	599.1	881.0	1090.6	1153.9
223.7	27.5°	224.0	224.0	227.4	255.9	525.1	870.7	1114.6	1176.6
213.4	30°	214.1	214.1	216.5	226.4	438.4	850.5	1143.3	1206.0
203.1	32.5°	203.8	203.8	205.9	213.0	350.1	825.1	1169.7	1235.8
192.5	35°	193.5	192.8	195.6	203.1	278.5	792.9	1196.1	1268.0
181.9	37.5°	182.6	182.2	185.0	193.5	240.4	755.6	1215.9	1311.8
171.3	40°	170.9	170.9	174.0	183.2	229.5	708.7	1247.5	1374.9
160.3	42.5°	160.3	159.6	163.0	174.3	221.3	663.8	1304.0	1466.7
150.4	45°	150.0	148.7	151.7	165.8	206.9	648.0	1409.5	1602.3
140.8	47.5°	140.4	137.0	139.7	155.5	193.9	707.0	1582.1	1790.3
132.2	50°	132.6	126.0	128.4	145.2	183.9	834.7	1806.1	2040.0
124.3	52.5°	124.3	115.8	117.1	132.6	175.0	956.3	2048.9	2369.5
116.5	55°	115.8	106.2	106.9	119.9	162.4	974.5	2286.0	2818.9
107.6	57.5°	106.2	97.3	97.3	108.2	153.1	844.7	2468.2	3376.6
96.6	60°	95.6	89.7	88.0	99.0	161.3	596.0	2489.4	3736.2
82.5	62.5°	83.9	80.8	78.4	90.1	167.5	353.1	2318.5	3649.2
65.1	65°	70.6	69.9	68.2	99.0	141.1	208.6	1990.4	3382.4
55.5	67.5°	59.3	58.2	58.2	103.8	107.2	131.2	1555.0	3015.2
47.3	70°	51.0	47.3	47.3	78.4	65.1	90.8	1085.8	2618.9
39.0	72.5°	42.8	38.7	36.0	62.7	48.6	66.4	678.5	2242.8
29.8	75°	34.3	31.2	27.7	41.4	36.3	50.4	394.2	1858.2
18.8	77.5°	24.7	23.3	19.5	30.5	26.4	36.3	234.6	1433.8
11.6	80°	12.7	13.0	12.3	17.5	17.8	24.7	133.6	981.3
7.5	82.5°	7.5	5.8	6.5	8.6	10.3	14.0	50.4	576.8
5.5	85°	4.8	3.1	3.1	4.1	5.1	5.5	15.4	233.9
2.7	87.5°	2.4	1.0	1.4	2.1	1.7	1.4	0.7	58.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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