

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: P946162

Luminaire Tested: **GALN-SB1D-927-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946162
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-SB1D-927-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 900mA 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: 4729 lumens
Efficiency: N/A
Efficacy: 59.4 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

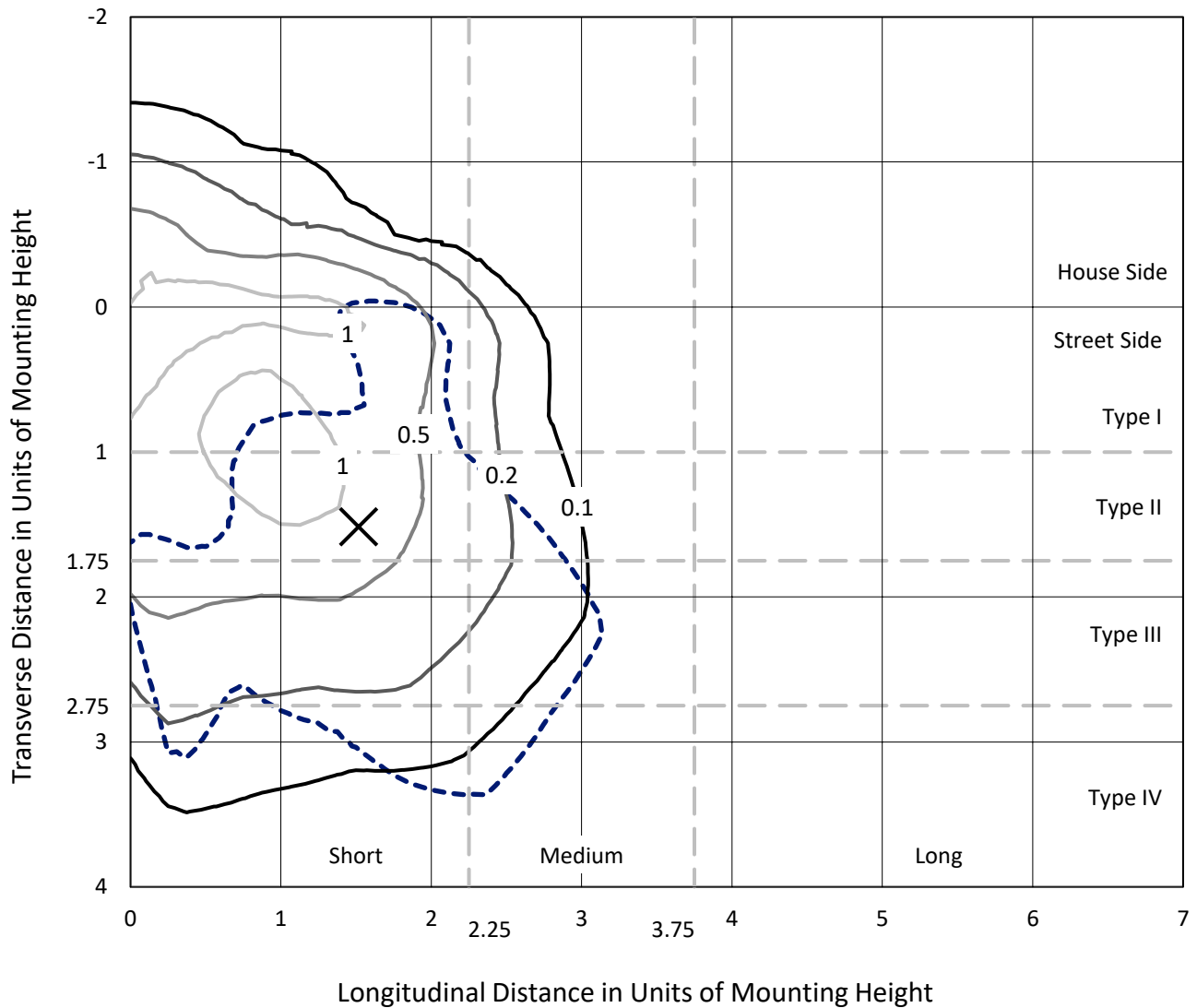
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

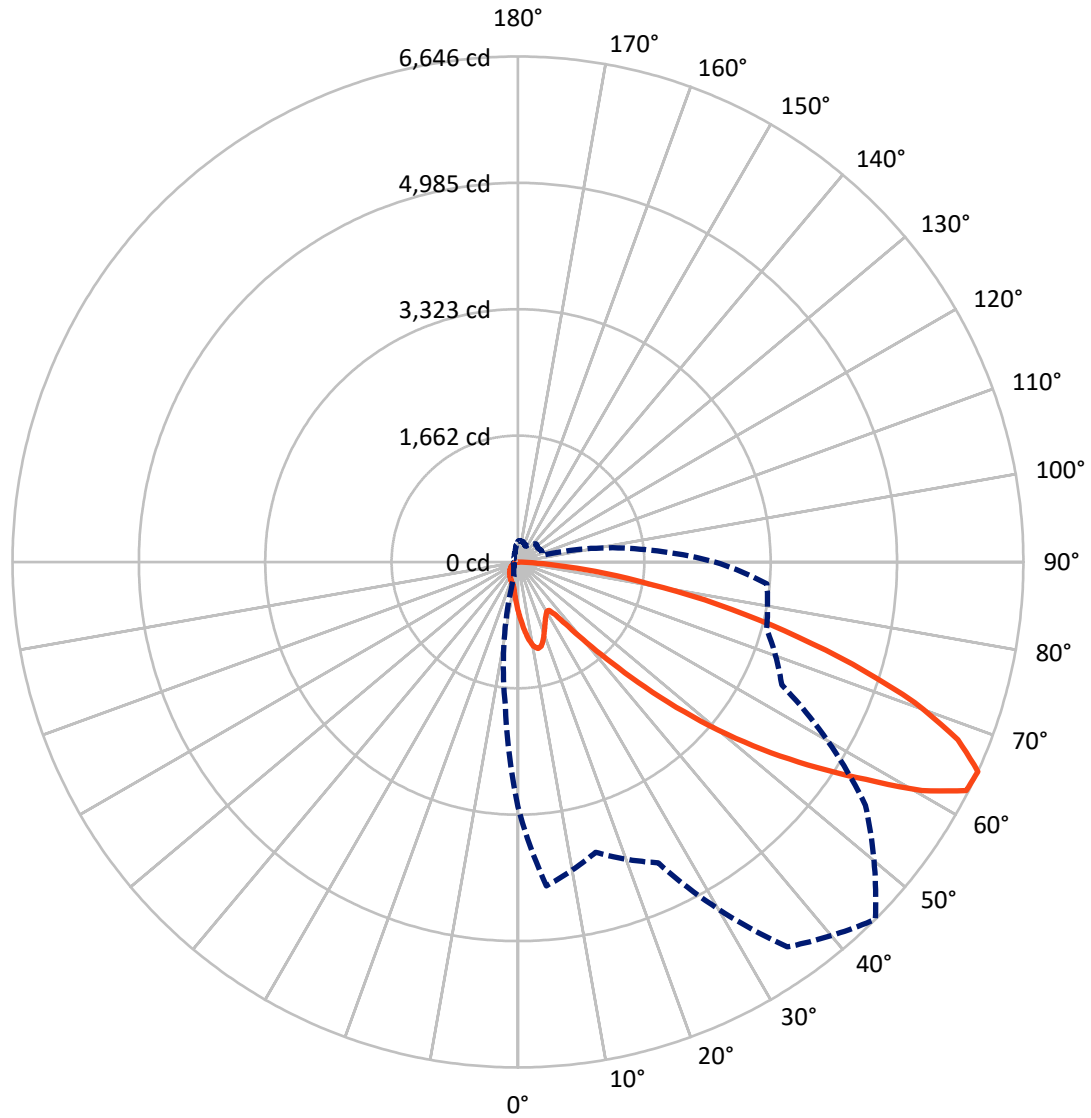
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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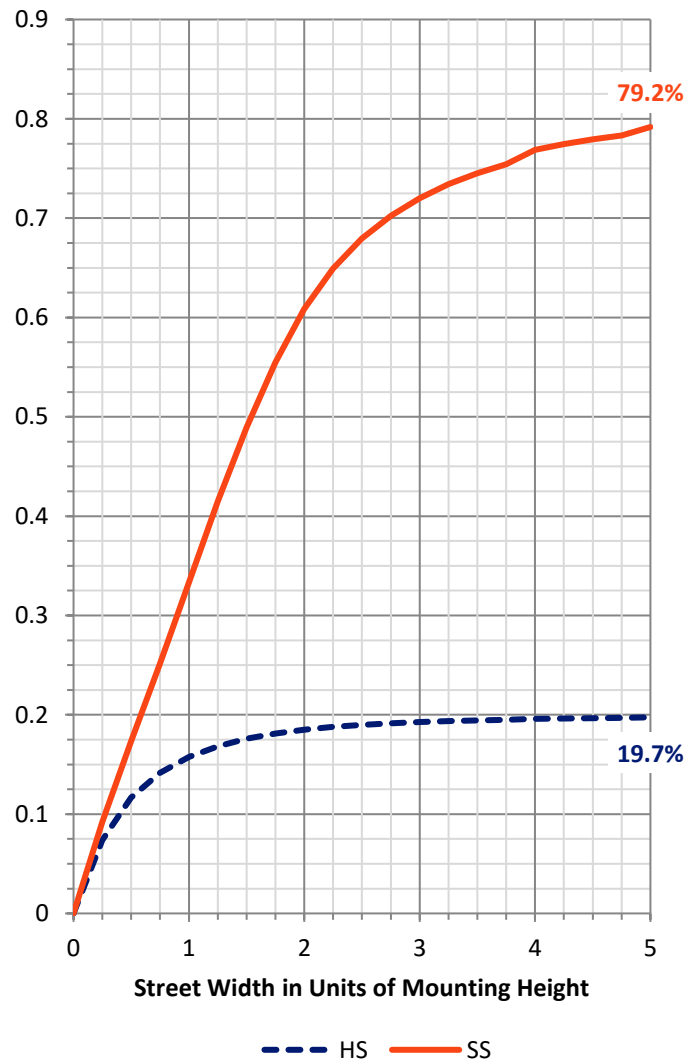
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	940.0	0.0	940.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	3789.0	0.0	3789.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	4729.0	0.0	4729.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.4
10°-20°	193.3	4.1
20°-30°	284.7	6.0
30°-40°	365.8	7.7
40°-50°	591.6	12.5
50°-60°	1037.4	21.9
60°-70°	1298.0	27.4
70°-80°	758.5	16.0
80°-90°	135.3	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°	4729.0	100.0
0°-180°	4729.0	100.0



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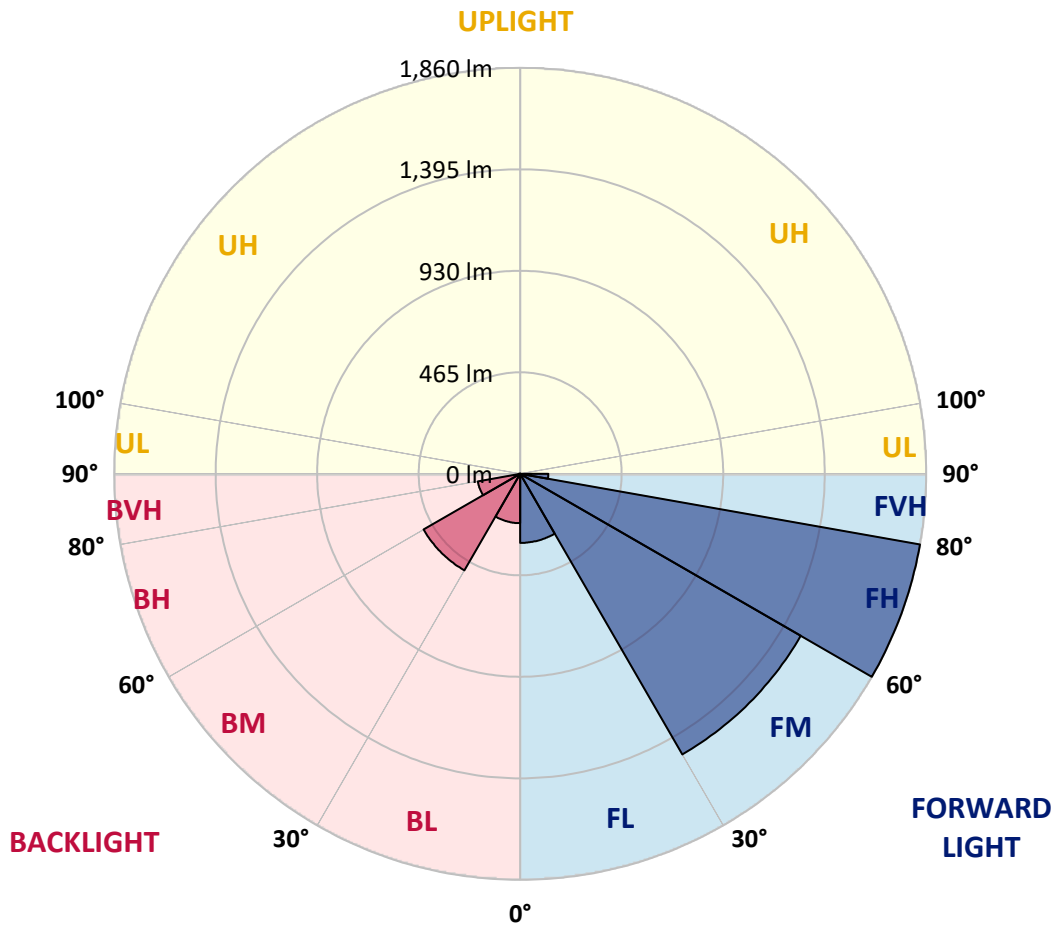
CATALOG NUMBER: GALN-SB1D-927-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.4	6.7			
FM (30°-60°)	1484.0	31.4			
FH (60°-80°)	1859.6	39.3			G2/5000
FVH (80°-90°)	129.0	2.7			G2/225
BL (0°-30°)	226.0	4.8	B1/500		
BM (30°-60°)	510.7	10.8	B1/1000		
BH (60°-80°)	196.9	4.2	B1/500		G1/500
BVH (80°-90°)	6.3	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°	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8
2.5°	733.7	739.2	751.6	758.1	768.2	768.8	768.8	760.0	759.7	741.8
5°	820.0	833.0	862.3	892.6	899.1	900.8	897.5	879.9	866.9	832.0
7.5°	905.7	930.7	975.4	1015.8	1028.8	1028.8	1021.0	992.3	965.6	915.1
10°	976.7	1008.3	1068.9	1114.2	1129.1	1125.9	1109.9	1073.8	1037.0	975.7
12.5°	1023.6	1059.1	1125.6	1162.1	1177.4	1168.9	1150.7	1115.5	1076.7	1012.2
15°	1047.1	1084.2	1141.9	1161.1	1156.8	1148.0	1145.8	1128.8	1099.5	1039.2
17.5°	1057.2	1091.7	1131.8	1119.7	1083.9	1077.0	1099.8	1121.3	1114.2	1062.7
20°	1066.6	1095.6	1107.6	1054.2	991.7	985.5	1029.1	1090.4	1121.7	1084.5
22.5°	1079.6	1097.5	1072.8	985.2	917.7	903.4	951.6	1043.8	1123.9	1112.2
25°	1097.5	1102.4	1034.3	919.7	851.9	837.6	882.5	992.0	1120.0	1142.2
27.5°	1119.0	1109.0	997.5	864.9	799.5	786.1	831.1	942.2	1109.0	1172.2
30°	1147.1	1117.4	961.0	822.6	762.0	752.2	795.6	899.1	1095.3	1210.3
32.5°	1175.4	1121.0	927.2	797.8	753.5	757.1	792.6	876.0	1080.3	1246.8
35°	1206.0	1132.4	910.6	822.3	824.2	855.5	870.2	897.5	1078.0	1296.3
37.5°	1247.7	1157.8	930.4	943.8	1011.5	1076.4	1064.3	1002.7	1104.4	1370.2
40°	1307.7	1202.4	1017.1	1150.7	1289.8	1395.0	1349.0	1194.0	1185.2	1476.8
42.5°	1395.0	1273.5	1170.8	1403.5	1639.3	1812.6	1689.5	1440.6	1326.6	1628.9
45°	1524.0	1388.5	1356.9	1670.3	2070.3	2343.3	2087.3	1703.5	1524.6	1859.2
47.5°	1702.8	1557.5	1531.2	1951.4	2594.2	2947.3	2528.4	1947.2	1750.1	2173.3
50°	1940.3	1785.3	1696.3	2258.9	3168.5	3563.0	2969.1	2182.4	2008.4	2557.0
52.5°	2253.7	2102.9	1888.9	2551.8	3759.2	4165.7	3411.9	2388.9	2329.0	3002.4
55°	2681.2	2580.8	2152.1	2831.3	4349.5	4772.0	3837.3	2583.8	2752.5	3531.4
57.5°	3211.5	3283.2	2531.6	3155.5	4880.2	5396.8	4264.8	2856.1	3302.4	4123.1
60°	3553.6	4217.2	3258.4	3634.7	5483.2	6103.5	4850.5	3374.1	3880.4	4335.1
62.5°	3470.8	4514.3	4128.9	4246.5	6037.7	6617.2	5424.5	3894.4	3989.2	4022.7
65°	3217.1	4274.5	3951.4	4365.4	6178.1	6646.2	5578.0	3827.2	3383.9	3284.2
67.5°	2867.8	3990.1	3529.5	4050.1	5924.3	6240.9	5292.3	3385.5	2615.0	2464.5
70°	2490.9	3675.4	3252.6	3696.3	5440.5	5534.7	4806.5	2977.6	1923.4	1664.4
72.5°	2133.2	3347.7	3063.0	3333.7	4795.1	4600.3	4174.2	2617.0	1400.5	1200.5
75°	1767.3	2864.2	2792.9	2903.0	3946.5	3623.6	3468.2	2166.8	1099.2	868.5
77.5°	1363.7	2238.1	2402.3	2324.8	2777.9	2691.6	2688.3	1628.2	803.0	579.6
80°	933.4	1559.8	1876.8	1640.0	1802.9	1758.9	2024.7	1092.3	582.5	348.9
82.5°	548.6	949.6	1306.4	793.9	996.9	1023.3	1205.7	531.3	342.7	80.5
85°	222.5	375.0	510.8	310.8	480.8	405.6	457.7	149.2	95.5	2.0
87.5°	56.0	119.9	84.1	34.9	55.7	51.1	40.4	18.2	3.9	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
654.8	0°	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8
739.8	2.5°	727.1	719.6	701.1	682.5	667.5	647.3	634.0	618.0	602.7	589.0
824.5	5°	804.0	779.3	745.4	714.4	682.8	652.2	621.9	590.0	560.7	542.7
896.2	7.5°	866.6	822.9	778.0	738.5	700.4	664.6	624.5	585.8	539.8	515.4
950.9	10°	913.2	855.8	796.9	751.6	713.1	678.3	644.4	605.3	549.9	519.3
984.2	12.5°	943.8	875.7	806.6	754.8	711.8	684.8	669.8	654.5	599.4	563.6
1008.6	15°	965.0	889.7	813.5	747.3	694.6	674.7	689.7	707.3	672.1	630.7
1034.0	17.5°	988.1	907.9	816.4	727.1	661.0	652.5	691.3	732.0	730.4	689.3
1058.1	20°	1012.5	923.9	814.4	694.6	620.3	627.8	677.3	724.5	744.4	722.3
1085.8	22.5°	1037.6	939.2	807.0	652.2	582.2	605.6	655.1	696.5	720.0	713.1
1119.7	25°	1069.2	960.7	795.9	606.6	550.6	583.1	629.4	663.0	679.2	678.9
1156.2	27.5°	1107.0	989.4	790.0	569.8	528.1	557.7	598.8	628.8	640.2	640.2
1201.5	30°	1151.0	1023.3	783.5	545.7	515.1	531.3	563.3	592.6	604.0	604.0
1251.0	32.5°	1199.8	1055.8	767.9	531.0	505.3	505.6	525.8	552.5	566.2	568.2
1312.9	35°	1258.5	1090.7	733.7	519.3	493.9	480.5	490.3	512.4	528.7	533.0
1401.2	37.5°	1335.4	1133.4	684.8	502.0	476.3	454.1	456.4	473.4	491.3	497.8
1523.0	40°	1438.6	1183.6	634.0	477.3	451.5	425.1	424.2	436.5	454.1	461.3
1687.9	42.5°	1575.1	1243.8	585.4	453.5	421.6	394.5	392.9	402.7	418.0	425.5
1905.5	45°	1749.8	1317.8	543.7	434.9	392.2	365.5	364.9	373.0	386.4	394.2
2184.0	47.5°	1992.5	1391.7	515.4	425.1	369.1	341.7	343.0	350.2	362.3	367.8
2544.7	50°	2308.8	1414.2	501.0	425.1	356.7	320.6	327.1	332.9	342.1	345.3
2977.0	52.5°	2612.4	1339.9	488.0	427.7	358.4	302.6	316.7	320.9	328.7	330.0
3377.7	55°	2761.3	1152.0	470.1	428.4	368.5	287.3	308.2	316.0	318.9	318.6
3610.3	57.5°	2710.2	931.4	439.8	425.8	375.3	277.6	297.8	312.7	314.7	311.8
3566.0	60°	2530.6	685.8	416.7	406.6	372.7	274.6	281.8	305.6	308.5	304.6
3224.6	62.5°	2229.6	476.0	398.8	364.2	361.3	273.7	256.7	289.9	297.1	291.6
2591.9	65°	1755.3	336.2	343.4	319.3	336.5	268.4	230.7	271.0	280.8	272.4
1880.4	67.5°	1187.8	242.7	278.2	289.3	296.5	256.7	211.8	249.5	262.6	251.5
1206.7	70°	641.5	170.4	183.7	243.7	251.8	236.5	194.8	227.7	242.7	230.7
857.8	72.5°	378.9	122.5	128.7	195.8	209.8	208.2	175.9	202.3	220.6	206.2
591.9	75°	208.8	82.7	91.9	142.0	170.4	160.6	151.2	171.4	189.9	175.9
371.1	77.5°	93.5	49.5	63.9	93.2	133.9	110.1	117.0	133.6	150.8	136.2
206.5	80°	36.2	27.7	42.4	50.8	97.4	60.9	75.3	98.4	110.8	99.0
45.0	82.5°	4.6	12.4	18.2	19.9	56.7	32.3	43.7	61.9	60.9	52.8
0.0	85°	0.0	2.3	2.6	1.3	24.4	11.7	14.3	20.2	18.9	14.3
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°
654.8	0°	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8
586.4	2.5°	570.4	558.7	552.8	548.0	552.5	555.1	555.1	566.2	572.7	575.3
531.3	5°	502.7	480.8	466.2	457.4	460.3	463.6	467.2	481.2	490.6	496.8
493.2	7.5°	449.2	416.0	395.5	384.7	386.4	388.7	391.6	405.3	414.7	422.9
486.1	10°	422.9	375.9	348.9	335.9	333.6	332.3	331.3	339.5	346.6	353.1
515.4	12.5°	424.2	358.7	325.8	309.8	303.0	295.2	289.0	290.3	294.8	303.0
567.8	15°	440.8	353.1	313.7	293.9	282.5	273.3	265.8	264.2	265.8	267.1
627.8	17.5°	463.3	352.5	303.3	278.5	266.8	259.3	252.5	250.2	250.5	252.2
667.5	20°	481.2	350.5	291.6	263.9	253.5	246.9	240.1	237.8	238.5	238.8
671.4	22.5°	490.6	347.6	278.5	249.2	240.4	233.9	227.7	227.4	227.4	229.3
650.3	25°	490.6	341.4	266.8	235.2	227.4	221.5	214.0	215.3	216.0	218.6
617.4	27.5°	478.9	329.7	257.4	223.2	215.0	209.1	202.3	203.9	204.9	207.8
584.8	30°	463.9	315.7	246.6	211.8	202.3	198.1	192.2	192.9	194.2	197.4
554.5	32.5°	447.9	299.1	237.8	200.4	190.9	187.6	181.1	182.1	183.4	187.0
524.5	35°	430.4	279.5	227.4	189.9	180.5	177.9	170.4	171.0	173.0	176.9
492.3	37.5°	411.8	263.6	217.0	179.8	170.1	167.5	159.6	160.3	162.6	167.1
458.4	40°	393.5	247.9	205.9	169.1	159.3	157.0	148.6	149.2	151.8	156.7
424.2	42.5°	373.7	235.9	191.6	158.0	147.6	145.3	137.5	138.5	141.4	146.3
392.6	45°	349.9	228.0	175.6	147.6	135.8	133.6	126.4	128.4	131.6	136.5
365.5	47.5°	325.5	224.8	162.2	136.5	123.8	121.8	116.0	119.2	122.8	126.7
342.4	50°	302.0	220.6	148.6	126.1	113.4	111.4	107.5	111.7	115.3	118.9
325.8	52.5°	275.3	211.4	136.2	117.0	104.6	103.9	102.0	105.9	109.1	112.4
311.4	55°	247.6	196.8	125.4	108.8	97.1	97.7	96.8	100.0	102.6	105.6
298.4	57.5°	223.5	178.2	117.0	100.0	90.6	92.5	91.2	92.8	94.5	98.1
282.8	60°	199.1	156.0	107.5	89.6	84.1	86.3	82.7	82.4	83.1	84.1
259.6	62.5°	166.1	132.9	95.8	80.5	76.9	77.9	71.0	65.8	65.8	66.8
227.4	65°	133.6	111.4	82.7	70.0	67.1	66.5	56.7	49.5	48.9	51.8
189.9	67.5°	109.8	92.5	69.7	58.3	56.4	57.0	49.8	42.7	42.0	45.3
154.7	70°	90.9	74.6	55.7	45.0	46.9	49.8	42.7	35.8	34.9	37.8
125.8	72.5°	72.3	58.3	42.7	33.2	38.8	42.4	34.9	28.3	27.7	30.3
97.1	75°	53.1	41.7	29.0	24.1	30.0	33.2	25.4	20.2	19.2	21.5
64.8	77.5°	32.9	23.5	18.2	14.3	20.5	22.2	13.4	11.7	11.4	13.0
39.4	80°	15.3	10.1	8.8	4.9	7.5	8.8	5.5	6.2	6.5	7.8
19.9	82.5°	4.2	1.6	0.3	0.0	0.0	2.6	1.3	2.6	3.3	4.9
1.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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°
654.8	0°	654.8	654.8	654.8	654.8	654.8	654.8	654.8	654.8
593.6	2.5°	607.3	620.3	641.1	662.6	683.8	705.3	726.2	733.7
525.2	5°	550.9	580.9	622.2	666.5	712.2	758.4	800.8	820.0
454.5	7.5°	488.0	531.0	593.2	662.6	735.3	807.9	874.7	905.7
384.4	10°	420.9	475.3	546.3	640.2	744.4	844.7	936.6	976.7
322.8	12.5°	357.1	414.1	492.6	605.0	737.2	865.9	976.4	1023.6
279.5	15°	303.6	354.1	438.8	563.3	714.1	867.2	995.3	1047.1
255.4	17.5°	263.6	296.5	384.1	517.0	683.8	855.2	1001.8	1057.2
242.4	20°	243.7	252.8	313.1	457.7	655.5	843.8	1008.3	1066.6
232.0	22.5°	232.0	234.2	256.1	381.2	621.6	840.2	1019.7	1079.6
222.5	25°	222.5	223.2	229.0	302.0	569.8	837.9	1037.3	1097.5
212.7	27.5°	213.1	213.1	216.3	243.4	499.4	828.1	1060.1	1119.0
203.0	30°	203.6	203.6	205.9	215.3	417.0	808.9	1087.4	1147.1
193.2	32.5°	193.8	193.8	195.8	202.6	332.9	784.8	1112.5	1175.4
183.1	35°	184.1	183.4	186.0	193.2	264.9	754.2	1137.6	1206.0
173.0	37.5°	173.6	173.3	175.9	184.1	228.7	718.7	1156.5	1247.7
162.9	40°	162.6	162.6	165.5	174.3	218.3	674.0	1186.5	1307.7
152.5	42.5°	152.5	151.8	155.1	165.8	210.5	631.4	1240.2	1395.0
143.0	45°	142.7	141.4	144.3	157.7	196.8	616.4	1340.6	1524.0
133.9	47.5°	133.6	130.3	132.9	147.9	184.4	672.4	1504.8	1702.8
125.8	50°	126.1	119.9	122.2	138.1	174.9	793.9	1717.8	1940.3
118.3	52.5°	118.3	110.1	111.4	126.1	166.5	909.6	1948.8	2253.7
110.8	55°	110.1	101.0	101.6	114.0	154.4	926.8	2174.2	2681.2
102.3	57.5°	101.0	92.5	92.5	102.9	145.6	803.4	2347.6	3211.5
91.9	60°	90.9	85.4	83.7	94.2	153.4	566.9	2367.8	3553.6
78.5	62.5°	79.8	76.9	74.6	85.7	159.3	335.9	2205.2	3470.8
61.9	65°	67.1	66.5	64.8	94.2	134.2	198.4	1893.1	3217.1
52.8	67.5°	56.4	55.4	55.4	98.7	102.0	124.8	1479.0	2867.8
45.0	70°	48.5	45.0	45.0	74.6	61.9	86.3	1032.7	2490.9
37.1	72.5°	40.7	36.8	34.2	59.6	46.3	63.2	645.4	2133.2
28.3	75°	32.6	29.6	26.4	39.4	34.5	47.9	375.0	1767.3
17.9	77.5°	23.5	22.2	18.6	29.0	25.1	34.5	223.2	1363.7
11.1	80°	12.1	12.4	11.7	16.6	16.9	23.5	127.1	933.4
7.2	82.5°	7.2	5.5	6.2	8.1	9.8	13.4	47.9	548.6
5.2	85°	4.6	2.9	2.9	3.9	4.9	5.2	14.7	222.5
2.6	87.5°	2.3	1.0	1.3	2.0	1.6	1.3	0.7	56.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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