

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: P946563

Luminaire Tested: **GALN-SB2A-935-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946563
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-935-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4763 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

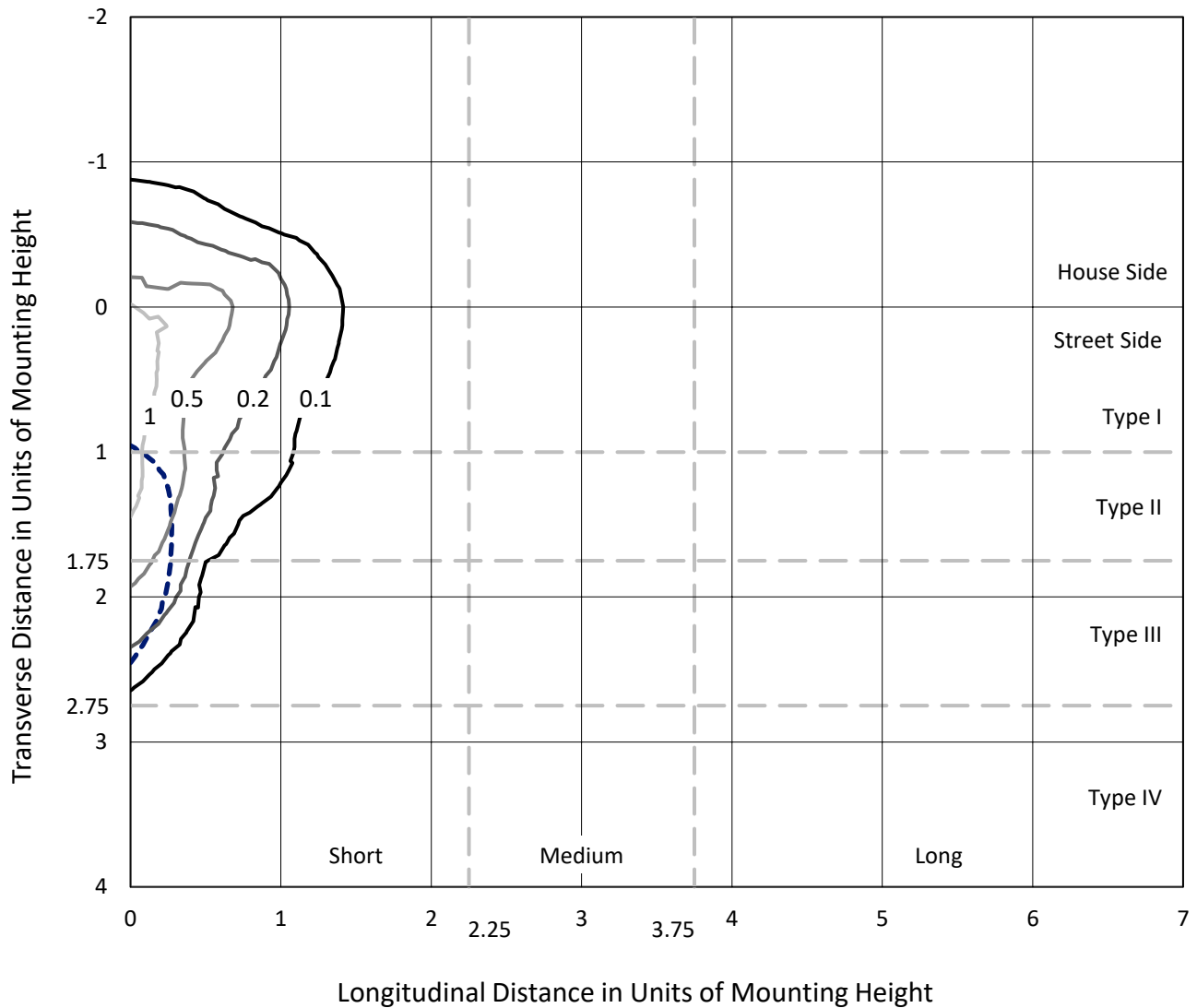
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

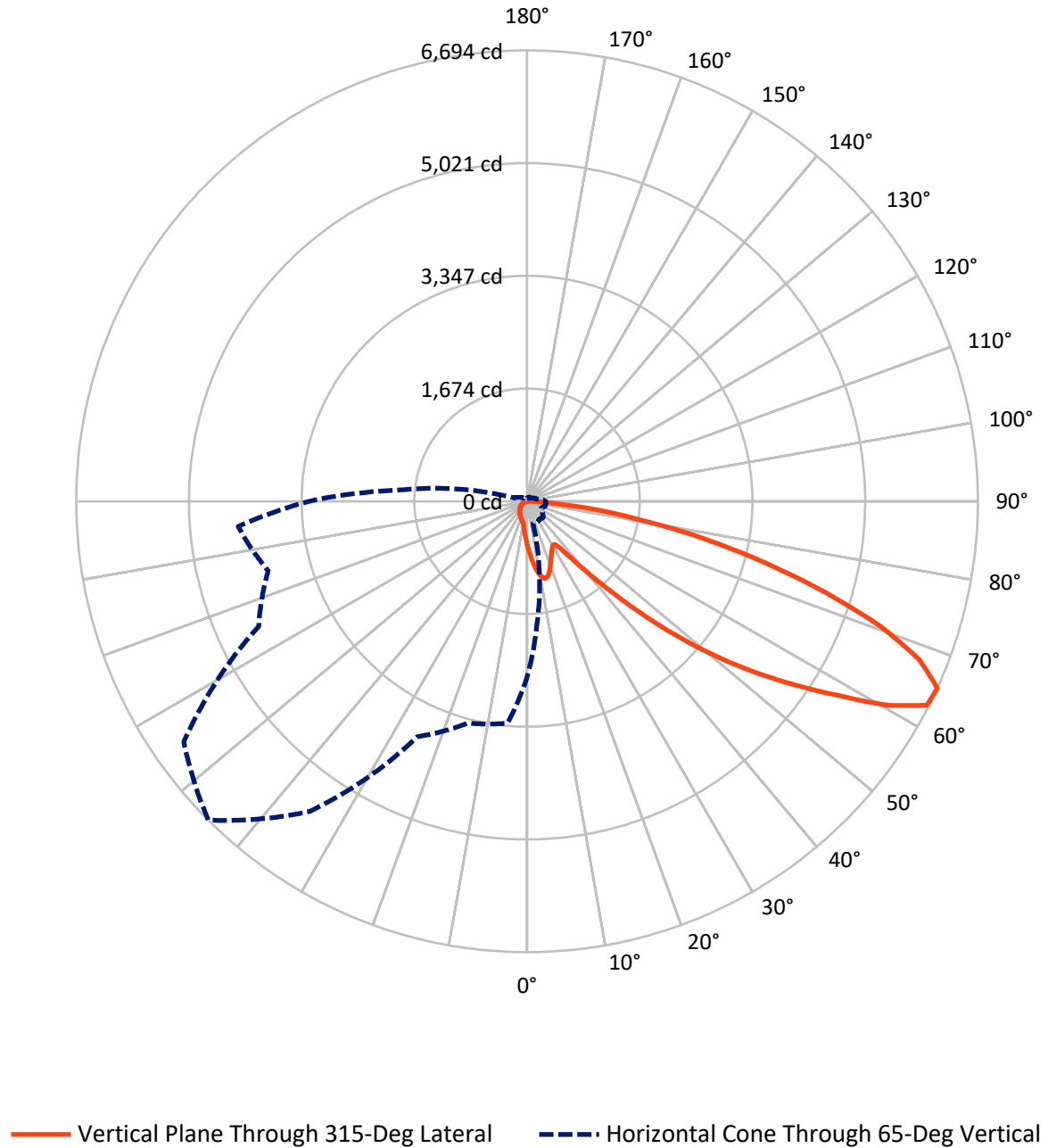
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	667.0	0.0	667.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4096.0	0.0	4096.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	4763.0	0.0	4763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.4
10°-20°	194.6	4.1
20°-30°	286.8	6.0
30°-40°	368.4	7.7
40°-50°	595.8	12.5
50°-60°	1044.8	21.9
60°-70°	1307.4	27.4
70°-80°	764.0	16.0
80°-90°	136.3	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°	4763.0	100.0
0°-180°	4763.0	100.0

Coefficient of Utilization



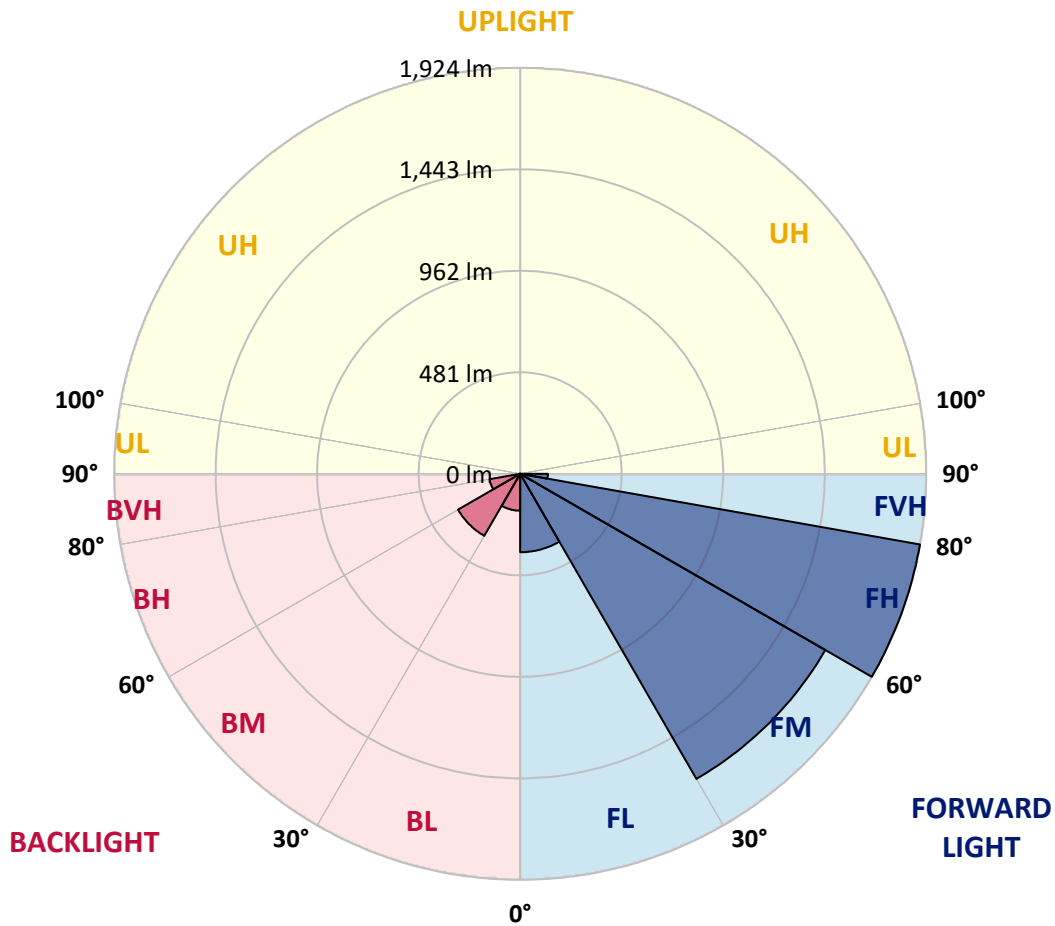
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.5	7.8			
FM (30°-60°)	1669.4	35.0			
FH (60°-80°)	1924.0	40.4			G2/5000
FVH (80°-90°)	131.1	2.8			G2/225
BL (0°-30°)	174.8	3.7	B1/500		
BM (30°-60°)	339.7	7.1	B1/1000		
BH (60°-80°)	147.3	3.1	B1/500		G1/500
BVH (80°-90°)	5.2	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°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
2.5°	745.2	732.4	724.8	706.1	687.4	672.3	652.0	638.5	622.4	607.0
5°	830.5	809.8	784.9	750.7	719.6	687.7	656.9	626.4	594.2	564.7
7.5°	902.7	872.8	828.8	783.6	743.9	705.5	669.4	629.0	590.0	543.7
10°	957.8	919.7	862.0	802.6	757.0	718.3	683.1	649.0	609.6	553.9
12.5°	991.3	950.6	882.0	812.4	760.3	716.9	689.7	674.6	659.2	603.7
15°	1015.9	971.9	896.1	819.3	752.7	699.6	679.5	694.6	712.4	676.9
17.5°	1041.5	995.2	914.5	822.3	732.4	665.8	657.2	696.3	737.3	735.6
20°	1065.7	1019.8	930.6	820.3	699.6	624.7	632.3	682.2	729.7	749.8
22.5°	1093.6	1045.1	946.0	812.8	656.9	586.4	610.0	659.9	701.5	725.1
25°	1127.8	1076.9	967.6	801.6	611.0	554.5	587.3	633.9	667.7	684.1
27.5°	1164.5	1115.0	996.5	795.7	573.9	531.9	561.7	603.1	633.3	644.8
30°	1210.1	1159.3	1030.6	789.1	549.6	518.8	535.2	567.3	596.9	608.3
32.5°	1260.0	1208.5	1063.4	773.4	534.8	508.9	509.2	529.6	556.5	570.3
35°	1322.3	1267.5	1098.5	738.9	523.0	497.4	484.0	493.8	516.1	532.5
37.5°	1411.2	1345.0	1141.5	689.7	505.6	479.7	457.4	459.7	476.8	494.8
40°	1534.0	1449.0	1192.1	638.5	480.7	454.8	428.2	427.2	439.7	457.4
42.5°	1700.0	1586.5	1252.8	589.6	456.7	424.6	397.4	395.7	405.6	421.0
45°	1919.2	1762.3	1327.2	547.6	438.0	395.1	368.2	367.5	375.7	389.2
47.5°	2199.7	2006.8	1401.7	519.1	428.2	371.8	344.2	345.5	352.7	364.9
50°	2563.0	2325.4	1424.4	504.7	428.2	359.3	322.9	329.4	335.3	344.5
52.5°	2998.4	2631.2	1349.6	491.5	430.8	360.9	304.8	318.9	323.2	331.1
55°	3402.0	2781.2	1160.2	473.5	431.5	371.1	289.4	310.4	318.3	321.2
57.5°	3636.2	2729.6	938.1	443.0	428.9	378.0	279.6	299.9	315.0	317.0
60°	3591.6	2548.8	690.7	419.7	409.5	375.4	276.6	283.8	307.8	310.7
62.5°	3247.7	2245.7	479.4	401.6	366.8	363.9	275.6	258.6	292.0	299.2
65°	2610.5	1767.9	338.6	345.8	321.6	338.9	270.4	232.3	273.0	282.8
67.5°	1893.9	1196.3	244.5	280.2	291.4	298.6	258.6	213.3	251.3	264.5
70°	1215.4	646.1	171.6	185.1	245.4	253.6	238.2	196.2	229.4	244.5
72.5°	863.9	381.6	123.4	129.6	197.2	211.3	209.7	177.2	203.8	222.1
75°	596.2	210.3	83.3	92.5	143.1	171.6	161.8	152.2	172.6	191.3
77.5°	373.7	94.2	49.9	64.3	93.8	134.9	110.9	117.8	134.5	151.9
80°	208.0	36.4	27.9	42.7	51.2	98.1	61.4	75.8	99.1	111.6
82.5°	45.3	4.6	12.5	18.4	20.0	57.1	32.5	44.0	62.3	61.4
85°	0.0	0.0	2.3	2.6	1.3	24.6	11.8	14.4	20.3	19.0
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°
659.5	0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
593.2	2.5°	590.6	574.5	562.7	556.8	551.9	556.5	559.1	559.1	570.3	576.8
546.6	5°	535.2	506.3	484.3	469.5	460.7	463.6	466.9	470.5	484.6	494.2
519.1	7.5°	496.8	452.5	419.0	398.3	387.5	389.2	391.4	394.4	408.2	417.7
523.0	10°	489.6	425.9	378.7	351.4	338.3	336.0	334.7	333.7	341.9	349.1
567.6	12.5°	519.1	427.2	361.3	328.1	312.0	305.2	297.3	291.0	292.4	296.9
635.2	15°	571.9	443.9	355.7	316.0	296.0	284.5	275.3	267.7	266.1	267.7
694.3	17.5°	632.3	466.6	355.0	305.5	280.5	268.7	261.2	254.3	252.0	252.3
727.4	20°	672.3	484.6	353.1	293.7	265.8	255.3	248.7	241.8	239.5	240.2
718.3	22.5°	676.3	494.2	350.1	280.5	251.0	242.2	235.6	229.4	229.0	229.0
683.8	25°	654.9	494.2	343.9	268.7	236.9	229.0	223.1	215.6	216.9	217.5
644.8	27.5°	621.8	482.3	332.1	259.2	224.8	216.6	210.7	203.8	205.4	206.4
608.3	30°	589.0	467.2	317.9	248.4	213.3	203.8	199.5	193.6	194.2	195.6
572.2	32.5°	558.5	451.2	301.2	239.5	201.8	192.3	189.0	182.4	183.4	184.7
536.8	35°	528.3	433.4	281.5	229.0	191.3	181.8	179.2	171.6	172.3	174.2
501.4	37.5°	495.8	414.7	265.4	218.5	181.1	171.3	168.7	160.8	161.4	163.7
464.6	40°	461.7	396.4	249.7	207.4	170.3	160.5	158.2	149.6	150.3	152.9
428.5	42.5°	427.2	376.4	237.6	192.9	159.1	148.6	146.3	138.5	139.5	142.4
397.0	45°	395.4	352.4	229.7	176.9	148.6	136.8	134.5	127.3	129.3	132.6
370.4	47.5°	368.2	327.8	226.4	163.4	137.5	124.7	122.7	116.8	120.1	123.7
347.8	50°	344.9	304.2	222.1	149.6	127.0	114.2	112.2	108.3	112.5	116.2
332.4	52.5°	328.1	277.3	213.0	137.2	117.8	105.3	104.7	102.7	106.6	109.9
320.9	55°	313.7	249.4	198.2	126.3	109.6	97.8	98.4	97.5	100.7	103.4
314.0	57.5°	300.6	225.1	179.5	117.8	100.7	91.2	93.2	91.9	93.5	95.2
306.8	60°	284.8	200.5	157.2	108.3	90.2	84.7	87.0	83.3	83.0	83.7
293.7	62.5°	261.5	167.3	133.9	96.5	81.0	77.4	78.4	71.5	66.3	66.3
274.3	65°	229.0	134.5	112.2	83.3	70.5	67.6	66.9	57.1	49.9	49.2
253.3	67.5°	191.3	110.6	93.2	70.2	58.7	56.8	57.4	50.2	43.0	42.3
232.3	70°	155.9	91.5	75.1	56.1	45.3	47.2	50.2	43.0	36.1	35.1
207.7	72.5°	126.7	72.8	58.7	43.0	33.5	39.0	42.7	35.1	28.5	27.9
177.2	75°	97.8	53.5	42.0	29.2	24.3	30.2	33.5	25.6	20.3	19.4
137.2	77.5°	65.3	33.1	23.6	18.4	14.4	20.7	22.3	13.5	11.8	11.5
99.7	80°	39.7	15.4	10.2	8.9	4.9	7.5	8.9	5.6	6.2	6.6
53.2	82.5°	20.0	4.3	1.6	0.3	0.0	0.0	2.6	1.3	2.6	3.3
14.4	85°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6
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°
659.5	0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
579.5	2.5°	597.8	611.6	624.7	645.7	667.4	688.7	710.4	731.4	738.9	744.5
500.4	5°	528.9	554.9	585.0	626.7	671.3	717.3	763.9	806.5	825.9	839.0
425.9	7.5°	457.7	491.5	534.8	597.5	667.4	740.6	813.7	881.0	912.2	937.4
355.7	10°	387.2	423.9	478.7	550.3	644.8	749.8	850.8	943.3	983.7	1015.5
305.2	12.5°	325.2	359.6	417.0	496.1	609.3	742.5	872.1	983.4	1031.0	1066.7
269.1	15°	281.5	305.8	356.7	442.0	567.3	719.2	873.5	1002.4	1054.6	1092.0
254.0	17.5°	257.2	265.4	298.6	386.9	520.7	688.7	861.3	1009.0	1064.8	1099.5
240.5	20°	244.1	245.4	254.6	315.3	461.0	660.2	849.8	1015.5	1074.3	1103.5
231.0	22.5°	233.6	233.6	235.9	257.9	383.9	626.1	846.2	1027.0	1087.4	1105.4
220.2	25°	224.1	224.1	224.8	230.7	304.2	573.9	843.9	1044.7	1105.4	1110.4
209.3	27.5°	214.3	214.6	214.6	217.9	245.1	503.0	834.1	1067.7	1127.1	1116.9
198.8	30°	204.4	205.1	205.1	207.4	216.9	420.0	814.7	1095.3	1155.3	1125.5
188.3	32.5°	194.6	195.2	195.2	197.2	204.1	335.3	790.4	1120.5	1183.9	1129.1
178.2	35°	184.4	185.4	184.7	187.4	194.6	266.8	759.6	1145.8	1214.7	1140.5
168.3	37.5°	174.2	174.9	174.6	177.2	185.4	230.3	723.8	1164.8	1256.7	1166.1
157.8	40°	164.1	163.7	163.7	166.7	175.5	219.8	678.9	1195.0	1317.1	1211.1
147.3	42.5°	153.6	153.6	152.9	156.2	167.0	212.0	635.9	1249.2	1405.0	1282.6
137.5	45°	144.0	143.7	142.4	145.4	158.8	198.2	620.8	1350.2	1534.9	1398.5
127.6	47.5°	134.9	134.5	131.2	133.9	149.0	185.7	677.2	1515.6	1715.1	1568.7
119.8	50°	126.7	127.0	120.7	123.0	139.1	176.2	799.6	1730.2	1954.3	1798.1
113.2	52.5°	119.1	119.1	110.9	112.2	127.0	167.7	916.1	1962.8	2269.9	2118.0
106.3	55°	111.6	110.9	101.7	102.4	114.8	155.5	933.5	2189.9	2700.4	2599.4
98.8	57.5°	103.0	101.7	93.2	93.2	103.7	146.7	809.1	2364.4	3234.6	3306.8
84.7	60°	92.5	91.5	86.0	84.3	94.8	154.5	570.9	2384.8	3579.1	4247.5
67.3	62.5°	79.1	80.4	77.4	75.1	86.3	160.5	338.3	2221.1	3495.8	4546.8
52.2	65°	62.3	67.6	66.9	65.3	94.8	135.2	199.8	1906.7	3240.2	4305.3
45.6	67.5°	53.2	56.8	55.8	55.8	99.4	102.7	125.7	1489.7	2888.4	4018.8
38.1	70°	45.3	48.9	45.3	45.3	75.1	62.3	87.0	1040.1	2508.8	3701.9
30.5	72.5°	37.4	41.0	37.1	34.5	60.0	46.6	63.7	650.0	2148.5	3371.8
21.7	75°	28.5	32.8	29.9	26.6	39.7	34.8	48.2	377.7	1780.1	2884.8
13.1	77.5°	18.0	23.6	22.3	18.7	29.2	25.3	34.8	224.8	1373.5	2254.2
7.9	80°	11.2	12.1	12.5	11.8	16.7	17.1	23.6	128.0	940.1	1571.0
4.9	82.5°	7.2	7.2	5.6	6.2	8.2	9.8	13.5	48.2	552.6	956.5
3.0	85°	5.2	4.6	3.0	3.0	3.9	4.9	5.2	14.8	224.1	377.7
1.3	87.5°	2.6	2.3	1.0	1.3	2.0	1.6	1.3	0.7	56.4	120.7
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°
659.5	0°	659.5	659.5	659.5	659.5	659.5	659.5	659.5	659.5
757.0	2.5°	763.5	773.7	774.4	774.4	765.5	765.2	747.1	745.2
868.5	5°	899.1	905.6	907.3	904.0	886.3	873.1	838.0	830.5
982.4	7.5°	1023.1	1036.2	1036.2	1028.3	999.5	972.6	921.7	902.7
1076.6	10°	1122.2	1137.3	1134.0	1117.9	1081.5	1044.4	982.7	957.8
1133.7	12.5°	1170.4	1185.8	1177.3	1158.9	1123.5	1084.4	1019.5	991.3
1150.1	15°	1169.4	1165.2	1156.3	1154.0	1136.9	1107.4	1046.7	1015.9
1139.9	17.5°	1127.8	1091.7	1084.8	1107.7	1129.4	1122.2	1070.3	1041.5
1115.6	20°	1061.8	998.8	992.6	1036.5	1098.2	1129.7	1092.3	1065.7
1080.5	22.5°	992.2	924.3	909.9	958.4	1051.3	1132.0	1120.2	1093.6
1041.8	25°	926.3	858.0	843.6	888.9	999.1	1128.1	1150.4	1127.8
1004.7	27.5°	871.2	805.2	791.8	837.0	948.9	1116.9	1180.6	1164.5
968.0	30°	828.5	767.5	757.6	801.3	905.6	1103.1	1219.0	1210.1
933.8	32.5°	803.6	758.9	762.6	798.3	882.3	1088.0	1255.7	1260.0
917.1	35°	828.2	830.1	861.6	876.4	904.0	1085.8	1305.6	1322.3
937.1	37.5°	950.6	1018.8	1084.1	1072.0	1010.0	1112.3	1380.1	1411.2
1024.4	40°	1158.9	1299.0	1405.0	1358.7	1202.6	1193.7	1487.4	1534.0
1179.3	42.5°	1413.5	1651.1	1825.7	1701.6	1451.0	1336.1	1640.6	1700.0
1366.6	45°	1682.3	2085.2	2360.2	2102.3	1715.7	1535.6	1872.6	1919.2
1542.2	47.5°	1965.4	2612.8	2968.5	2546.5	1961.2	1762.7	2188.9	2199.7
1708.5	50°	2275.2	3191.3	3588.7	2990.5	2198.1	2022.9	2575.4	2563.0
1902.4	52.5°	2570.2	3786.2	4195.7	3436.4	2406.1	2345.7	3024.0	2998.4
2167.6	55°	2851.7	4380.7	4806.3	3864.9	2602.3	2772.3	3556.8	3402.0
2549.8	57.5°	3178.2	4915.3	5435.7	4295.4	2876.6	3326.2	4152.7	3636.2
3281.9	60°	3660.8	5522.6	6147.3	4885.4	3398.3	3908.2	4366.3	3591.6
4158.6	62.5°	4277.1	6081.1	6664.8	5463.5	3922.4	4017.8	4051.6	3247.7
3979.8	65°	4396.8	6222.5	6694.0	5618.1	3854.8	3408.2	3307.8	2610.5
3554.9	67.5°	4079.2	5966.9	6285.8	5330.3	3409.8	2633.8	2482.2	1893.9
3276.0	70°	3722.9	5479.6	5574.4	4841.1	2999.0	1937.2	1676.4	1215.4
3085.0	72.5°	3357.7	4829.6	4633.4	4204.2	2635.8	1410.6	1209.1	863.9
2813.0	75°	2923.9	3974.9	3649.7	3493.2	2182.3	1107.1	874.8	596.2
2419.6	77.5°	2341.5	2797.9	2710.9	2707.7	1639.9	808.8	583.7	373.7
1890.3	80°	1651.8	1815.8	1771.5	2039.3	1100.2	586.7	351.4	208.0
1315.8	82.5°	799.6	1004.1	1030.6	1214.4	535.2	345.2	81.0	45.3
514.5	85°	313.0	484.3	408.5	461.0	150.3	96.1	2.0	0.0
84.7	87.5°	35.1	56.1	51.5	40.7	18.4	3.9	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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