

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: P945723

Luminaire Tested: **GALN-SB1C-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945723
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 5137 lumens
Efficiency: N/A
Efficacy: 94.4 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

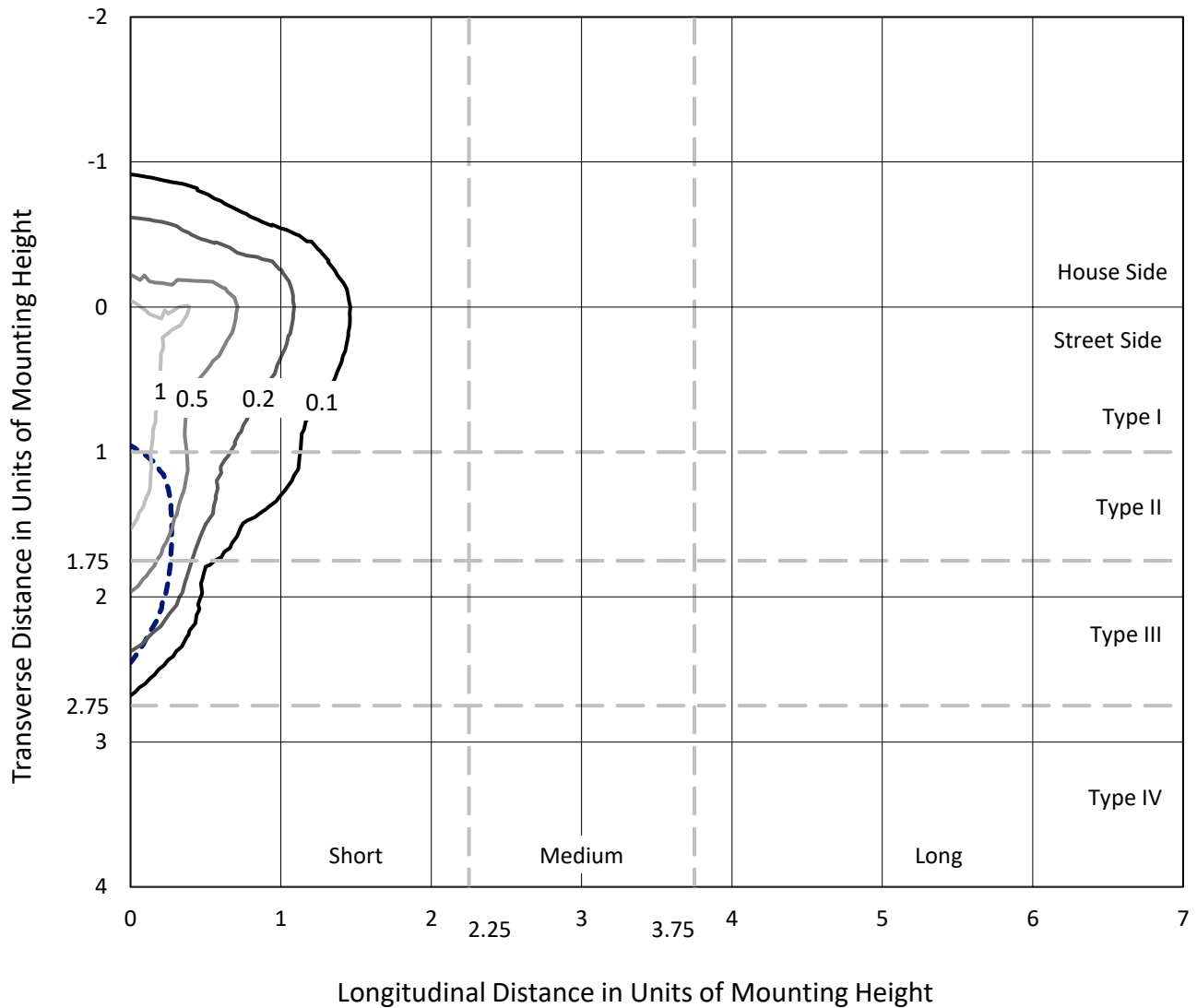
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

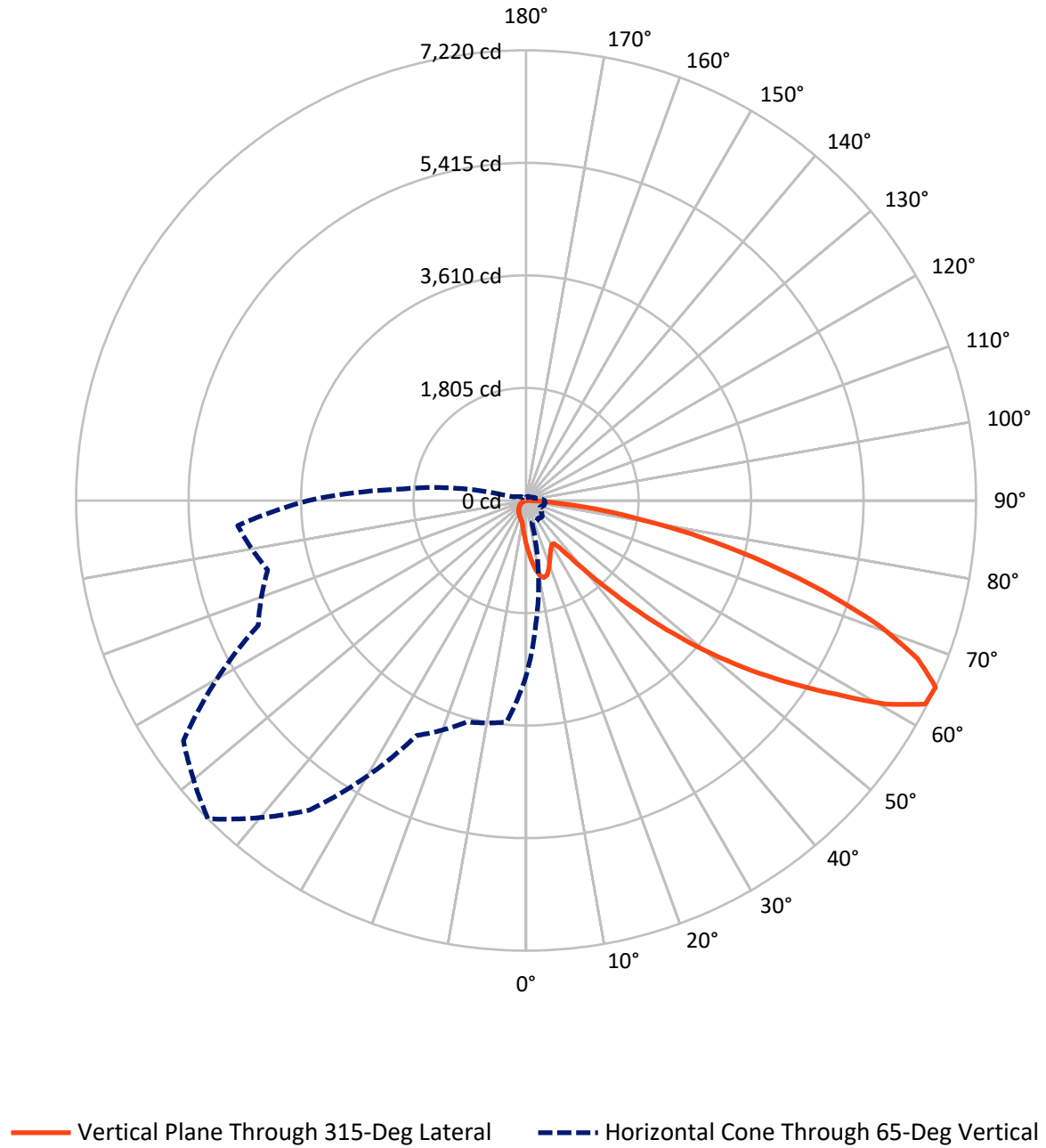
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	719.4	0.0	719.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4417.6	0.0	4417.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	5137.0	0.0	5137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.4
10°-20°	209.9	4.1
20°-30°	309.3	6.0
30°-40°	397.3	7.7
40°-50°	642.6	12.5
50°-60°	1126.9	21.9
60°-70°	1410.0	27.4
70°-80°	823.9	16.0
80°-90°	147.0	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°	5137.0	100.0
0°-180°	5137.0	100.0

Coefficient of Utilization



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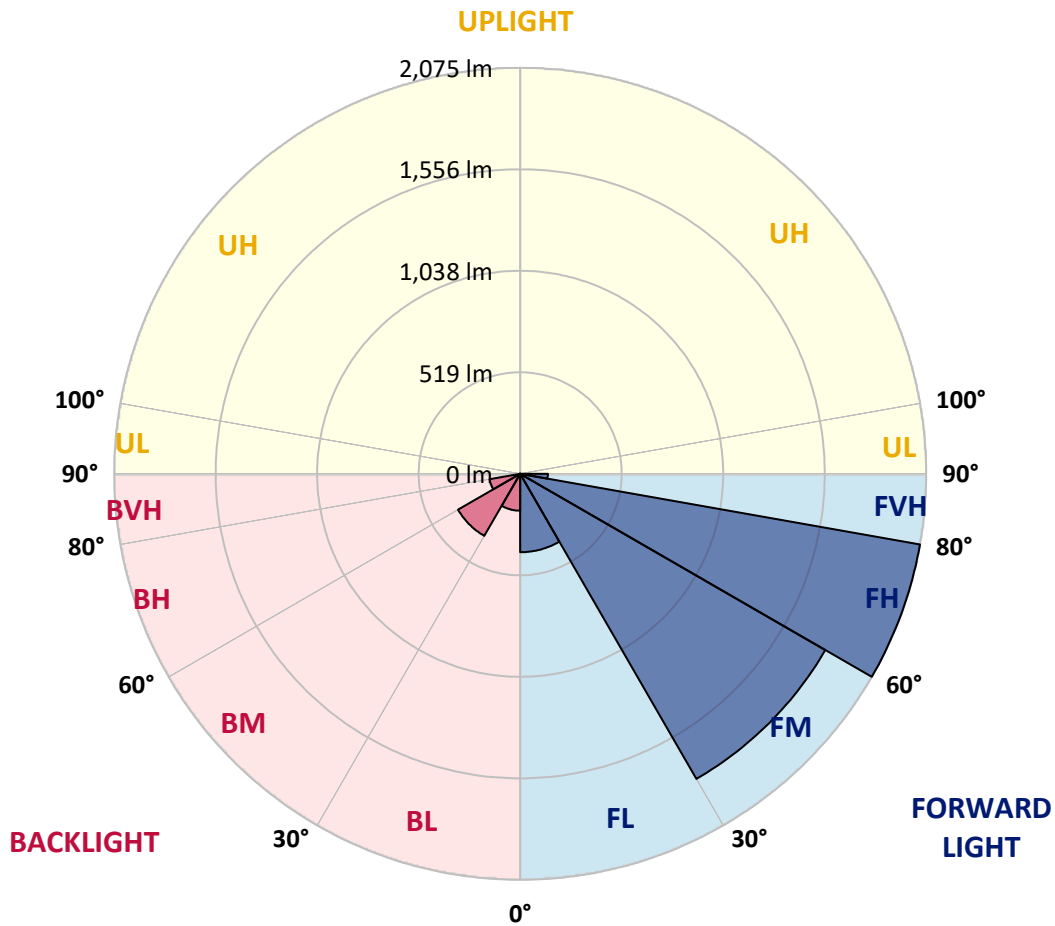
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.7	7.8			
FM (30°-60°)	1800.5	35.0			
FH (60°-80°)	2075.1	40.4			G2/5000
FVH (80°-90°)	141.4	2.8			G2/225
BL (0°-30°)	188.6	3.7	B1/500		
BM (30°-60°)	366.3	7.1	B1/1000		
BH (60°-80°)	158.8	3.1	B1/500		G1/500
BVH (80°-90°)	5.6	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°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	803.7	789.9	781.7	761.6	741.4	725.1	703.2	688.7	671.3	654.7
5°	895.7	873.4	846.5	809.7	776.1	741.7	708.5	675.6	640.9	609.0
7.5°	973.5	941.3	893.9	845.1	802.3	760.9	721.9	678.4	636.3	586.4
10°	1033.0	991.9	929.7	865.6	816.4	774.7	736.8	700.0	657.5	597.4
12.5°	1069.1	1025.2	951.2	876.2	820.0	773.2	743.9	727.6	711.0	651.1
15°	1095.6	1048.2	966.5	883.7	811.8	754.5	732.9	749.2	768.3	730.1
17.5°	1123.2	1073.3	986.3	886.8	789.9	718.0	708.8	750.9	795.2	793.4
20°	1149.4	1099.9	1003.6	884.7	754.5	673.8	681.9	735.7	787.0	808.6
22.5°	1179.5	1127.1	1020.3	876.6	708.5	632.4	657.9	711.7	756.6	782.1
25°	1216.3	1161.5	1043.6	864.5	658.9	598.1	633.5	683.7	720.2	737.9
27.5°	1255.9	1202.5	1074.8	858.2	618.9	573.6	605.9	650.4	683.0	695.4
30°	1305.1	1250.3	1111.6	851.1	592.8	559.5	577.2	611.9	643.7	656.1
32.5°	1358.9	1303.4	1146.9	834.1	576.8	548.9	549.2	571.2	600.2	615.1
35°	1426.2	1367.1	1184.8	797.0	564.1	536.5	522.0	532.6	556.7	574.4
37.5°	1522.1	1450.6	1231.2	743.9	545.3	517.4	493.3	495.8	514.2	533.7
40°	1654.4	1562.8	1285.7	688.7	518.4	490.5	461.8	460.8	474.2	493.3
42.5°	1833.5	1711.0	1351.1	635.9	492.6	457.9	428.6	426.8	437.4	454.0
45°	2069.9	1900.7	1431.5	590.6	472.4	426.1	397.1	396.4	405.2	419.7
47.5°	2372.4	2164.4	1511.8	559.8	461.8	401.0	371.2	372.6	380.4	393.5
50°	2764.2	2508.0	1536.2	544.3	461.8	387.5	348.2	355.3	361.7	371.6
52.5°	3233.8	2837.8	1455.5	530.1	464.7	389.3	328.8	344.0	348.6	357.1
55°	3669.1	2999.5	1251.3	510.7	465.4	400.2	312.1	334.8	343.3	346.5
57.5°	3921.8	2944.0	1011.8	477.7	462.5	407.7	301.5	323.5	339.7	341.9
60°	3873.6	2749.0	744.9	452.6	441.6	404.8	298.3	306.1	331.9	335.1
62.5°	3502.8	2422.0	517.0	433.2	395.6	392.5	297.3	278.9	315.0	322.7
65°	2815.5	1906.7	365.2	373.0	346.8	365.6	291.6	250.6	294.4	305.0
67.5°	2042.6	1290.3	263.6	302.2	314.3	322.0	278.9	230.0	271.1	285.2
70°	1310.8	696.8	185.1	199.6	264.7	273.6	256.9	211.6	247.4	263.6
72.5°	931.8	411.6	133.1	139.8	212.7	227.9	226.1	191.1	219.8	239.6
75°	643.0	226.8	89.9	99.8	154.3	185.1	174.5	164.2	186.1	206.3
77.5°	403.1	101.6	53.8	69.4	101.2	145.4	119.6	127.0	145.1	163.8
80°	224.4	39.3	30.1	46.0	55.2	105.8	66.2	81.7	106.9	120.3
82.5°	48.8	5.0	13.4	19.8	21.6	61.6	35.0	47.4	67.2	66.2
85°	0.0	0.0	2.5	2.8	1.4	26.5	12.7	15.6	21.9	20.5
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°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
639.8	2.5°	637.0	619.7	606.9	600.5	595.2	600.2	603.0	603.0	615.1	622.1
589.6	5°	577.2	546.0	522.3	506.4	496.9	500.0	503.6	507.5	522.7	533.0
559.8	7.5°	535.8	488.0	451.9	429.6	417.9	419.7	422.2	425.4	440.2	450.5
564.1	10°	528.0	459.3	408.4	379.0	364.9	362.4	361.0	359.9	368.7	376.5
612.2	12.5°	559.8	460.8	389.6	353.9	336.5	329.1	320.6	313.9	315.3	320.3
685.1	15°	616.8	478.8	383.6	340.8	319.2	306.8	296.9	288.8	287.0	288.8
748.8	17.5°	681.9	503.2	382.9	329.5	302.6	289.8	281.7	274.3	271.8	272.1
784.6	20°	725.1	522.7	380.8	316.7	286.6	275.3	268.2	260.8	258.3	259.0
774.7	22.5°	729.4	533.0	377.6	302.6	270.7	261.2	254.1	247.4	247.0	247.0
737.5	25°	706.4	533.0	370.9	289.8	255.5	247.0	240.6	232.5	233.9	234.6
695.4	27.5°	670.6	520.2	358.1	279.6	242.4	233.6	227.2	219.8	221.5	222.6
656.1	30°	635.2	503.9	342.9	267.9	230.0	219.8	215.2	208.8	209.5	210.9
617.2	32.5°	602.3	486.6	324.9	258.3	217.6	207.4	203.8	196.8	197.8	199.2
579.0	35°	569.8	467.5	303.6	247.0	206.3	196.1	193.2	185.1	185.8	187.9
540.7	37.5°	534.7	447.3	286.3	235.7	195.3	184.7	181.9	173.4	174.1	176.6
501.1	40°	497.9	427.5	269.3	223.7	183.7	173.1	170.6	161.4	162.1	164.9
462.2	42.5°	460.8	405.9	256.2	208.1	171.6	160.3	157.8	149.3	150.4	153.6
428.2	45°	426.4	380.1	247.7	190.7	160.3	147.6	145.1	137.3	139.4	143.0
399.5	47.5°	397.1	353.5	244.2	176.2	148.3	134.5	132.4	126.0	129.5	133.4
375.1	50°	371.9	328.1	239.6	161.4	137.0	123.2	121.0	116.8	121.4	125.3
358.5	52.5°	353.9	299.0	229.7	147.9	127.0	113.6	112.9	110.8	115.0	118.6
346.1	55°	338.3	269.0	213.7	136.2	118.2	105.5	106.2	105.1	108.6	111.5
338.7	57.5°	324.2	242.8	193.6	127.0	108.6	98.4	100.5	99.1	100.9	102.6
330.9	60°	307.2	216.2	169.5	116.8	97.3	91.3	93.8	89.9	89.5	90.2
316.7	62.5°	282.0	180.5	144.4	104.0	87.4	83.5	84.6	77.1	71.5	71.5
295.8	65°	247.0	145.1	121.0	89.9	76.1	72.9	72.2	61.6	53.8	53.1
273.2	67.5°	206.3	119.3	100.5	75.7	63.3	61.2	61.9	54.1	46.4	45.7
250.6	70°	168.1	98.7	81.0	60.5	48.8	51.0	54.1	46.4	38.9	37.9
224.0	72.5°	136.6	78.6	63.3	46.4	36.1	42.1	46.0	37.9	30.8	30.1
191.1	75°	105.5	57.7	45.3	31.5	26.2	32.6	36.1	27.6	21.9	20.9
147.9	77.5°	70.4	35.7	25.5	19.8	15.6	22.3	24.1	14.5	12.7	12.4
107.6	80°	42.8	16.6	11.0	9.6	5.3	8.1	9.6	6.0	6.7	7.1
57.3	82.5°	21.6	4.6	1.8	0.4	0.0	0.0	2.8	1.4	2.8	3.5
15.6	85°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.8
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°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
625.0	2.5°	644.8	659.6	673.8	696.4	719.8	742.8	766.2	788.8	797.0	803.0
539.7	5°	570.5	598.4	631.0	675.9	724.1	773.6	823.8	869.9	890.7	904.9
459.3	7.5°	493.7	530.1	576.8	644.4	719.8	798.7	877.6	950.2	983.8	1011.1
383.6	10°	417.6	457.2	516.3	593.5	695.4	808.6	917.6	1017.4	1060.9	1095.3
329.1	12.5°	350.7	387.9	449.8	535.1	657.2	800.8	940.6	1060.6	1111.9	1150.5
290.2	15°	303.6	329.8	384.7	476.7	611.9	775.7	942.0	1081.1	1137.4	1177.7
273.9	17.5°	277.4	286.3	322.0	417.2	561.6	742.8	928.9	1088.2	1148.4	1185.9
259.4	20°	263.3	264.7	274.6	340.1	497.2	712.0	916.6	1095.3	1158.6	1190.1
249.1	22.5°	252.0	252.0	254.4	278.2	414.0	675.2	912.7	1107.7	1172.8	1192.2
237.5	25°	241.7	241.7	242.4	248.8	328.1	618.9	910.2	1126.8	1192.2	1197.5
225.8	27.5°	231.1	231.4	231.4	235.0	264.4	542.5	899.6	1151.5	1215.6	1204.6
214.5	30°	220.5	221.2	221.2	223.7	233.9	453.0	878.7	1181.3	1246.0	1213.8
203.1	32.5°	209.9	210.6	210.6	212.7	220.1	361.7	852.5	1208.5	1276.8	1217.7
192.2	35°	198.9	199.9	199.2	202.1	209.9	287.7	819.2	1235.8	1310.1	1230.1
181.5	37.5°	187.9	188.6	188.3	191.1	199.9	248.4	780.7	1256.3	1355.4	1257.7
170.2	40°	176.9	176.6	176.6	179.8	189.3	237.1	732.2	1288.9	1420.5	1306.2
158.9	42.5°	165.6	165.6	164.9	168.4	180.1	228.6	685.8	1347.2	1515.3	1383.3
148.3	45°	155.4	155.0	153.6	156.8	171.3	213.7	669.6	1456.2	1655.5	1508.3
137.7	47.5°	145.4	145.1	141.6	144.4	160.7	200.3	730.4	1634.6	1849.8	1691.9
129.2	50°	136.6	137.0	130.2	132.7	150.0	190.0	862.4	1866.0	2107.7	1939.3
122.1	52.5°	128.5	128.5	119.6	121.0	137.0	180.8	988.0	2116.9	2448.2	2284.3
114.7	55°	120.3	119.6	109.7	110.4	123.9	167.7	1006.8	2361.8	2912.5	2803.5
106.5	57.5°	111.1	109.7	100.5	100.5	111.8	158.2	872.7	2550.1	3488.6	3566.5
91.3	60°	99.8	98.7	92.7	90.9	102.3	166.7	615.8	2572.0	3860.2	4581.0
72.5	62.5°	85.3	86.7	83.5	81.0	93.1	173.1	364.9	2395.5	3770.3	4903.8
56.3	65°	67.2	72.9	72.2	70.4	102.3	145.8	215.5	2056.4	3494.6	4643.3
49.2	67.5°	57.3	61.2	60.2	60.2	107.2	110.8	135.5	1606.6	3115.3	4334.4
41.1	70°	48.8	52.7	48.8	48.8	81.0	67.2	93.8	1121.8	2705.8	3992.5
32.9	72.5°	40.3	44.2	40.0	37.2	64.8	50.3	68.7	701.0	2317.2	3636.5
23.4	75°	30.8	35.4	32.2	28.7	42.8	37.5	52.0	407.3	1919.8	3111.4
14.2	77.5°	19.5	25.5	24.1	20.2	31.5	27.2	37.5	242.4	1481.4	2431.2
8.5	80°	12.0	13.1	13.4	12.7	18.0	18.4	25.5	138.0	1013.9	1694.4
5.3	82.5°	7.8	7.8	6.0	6.7	8.8	10.6	14.5	52.0	595.9	1031.6
3.2	85°	5.7	5.0	3.2	3.2	4.2	5.3	5.7	15.9	241.7	407.3
1.4	87.5°	2.8	2.5	1.1	1.4	2.1	1.8	1.4	0.7	60.9	130.2
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°
711.3	0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
816.4	2.5°	823.5	834.5	835.2	835.2	825.6	825.3	805.8	803.7
936.7	5°	969.6	976.7	978.5	975.0	955.8	941.7	903.8	895.7
1059.5	7.5°	1103.4	1117.6	1117.6	1109.1	1077.9	1048.9	994.1	973.5
1161.1	10°	1210.3	1226.6	1223.0	1205.7	1166.4	1126.4	1059.9	1033.0
1222.7	12.5°	1262.3	1278.9	1269.7	1249.9	1211.7	1169.6	1099.5	1069.1
1240.4	15°	1261.2	1256.6	1247.1	1244.6	1226.2	1194.4	1128.9	1095.6
1229.4	17.5°	1216.3	1177.4	1169.9	1194.7	1218.1	1210.3	1154.4	1123.2
1203.2	20°	1145.2	1077.2	1070.5	1117.9	1184.5	1218.4	1178.1	1149.4
1165.3	22.5°	1070.2	996.9	981.3	1033.7	1133.8	1220.9	1208.2	1179.5
1123.6	25°	999.0	925.4	909.8	958.7	1077.6	1216.7	1240.7	1216.3
1083.6	27.5°	939.6	868.4	853.9	902.8	1023.4	1204.6	1273.3	1255.9
1044.0	30°	893.6	827.7	817.1	864.2	976.7	1189.8	1314.7	1305.1
1007.2	32.5°	866.7	818.5	822.4	861.0	951.6	1173.5	1354.3	1358.9
989.1	35°	893.2	895.3	929.3	945.2	975.0	1171.0	1408.1	1426.2
1010.7	37.5°	1025.2	1098.8	1169.2	1156.1	1089.3	1199.7	1488.4	1522.1
1104.8	40°	1249.9	1401.0	1515.3	1465.4	1297.0	1287.4	1604.2	1654.4
1271.9	42.5°	1524.5	1780.8	1969.0	1835.3	1564.9	1441.0	1769.4	1833.5
1473.9	45°	1814.4	2248.9	2545.5	2267.3	1850.5	1656.2	2019.6	2069.9
1663.3	47.5°	2119.8	2818.0	3201.6	2746.5	2115.2	1901.1	2360.8	2372.4
1842.7	50°	2453.8	3441.9	3870.4	3225.3	2370.7	2181.7	2777.6	2764.2
2051.8	52.5°	2772.0	4083.5	4525.1	3706.2	2595.0	2529.9	3261.4	3233.8
2337.8	55°	3075.6	4724.7	5183.7	4168.4	2806.7	2990.0	3836.1	3669.1
2750.0	57.5°	3427.7	5301.2	5862.5	4632.7	3102.5	3587.3	4478.8	3921.8
3539.6	60°	3948.3	5956.2	6630.0	5269.0	3665.2	4215.1	4709.2	3873.6
4485.1	62.5°	4612.9	6558.6	7188.1	5892.5	4230.3	4333.3	4369.8	3502.8
4292.3	65°	4742.1	6711.1	7219.6	6059.2	4157.4	3675.8	3567.5	2815.5
3834.0	67.5°	4399.5	6435.4	6779.4	5748.9	3677.6	2840.6	2677.1	2042.6
3533.2	70°	4015.2	5909.9	6012.2	5221.2	3234.5	2089.3	1808.0	1310.8
3327.2	72.5°	3621.3	5208.8	4997.2	4534.3	2842.8	1521.4	1304.1	931.8
3033.9	75°	3153.5	4287.0	3936.3	3767.5	2353.7	1194.0	943.5	643.0
2609.6	77.5°	2525.3	3017.6	2923.8	2920.3	1768.7	872.3	629.6	403.1
2038.7	80°	1781.5	1958.4	1910.6	2199.4	1186.6	632.7	379.0	224.4
1419.1	82.5°	862.4	1082.9	1111.6	1309.7	577.2	372.3	87.4	48.8
554.9	85°	337.6	522.3	440.6	497.2	162.1	103.7	2.1	0.0
91.3	87.5°	37.9	60.5	55.6	43.9	19.8	4.2	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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