

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: P945595

Luminaire Tested: **GALN-SB1C-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945595
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-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 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: 5717 lumens
Efficiency: N/A
Efficacy: 105.1 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

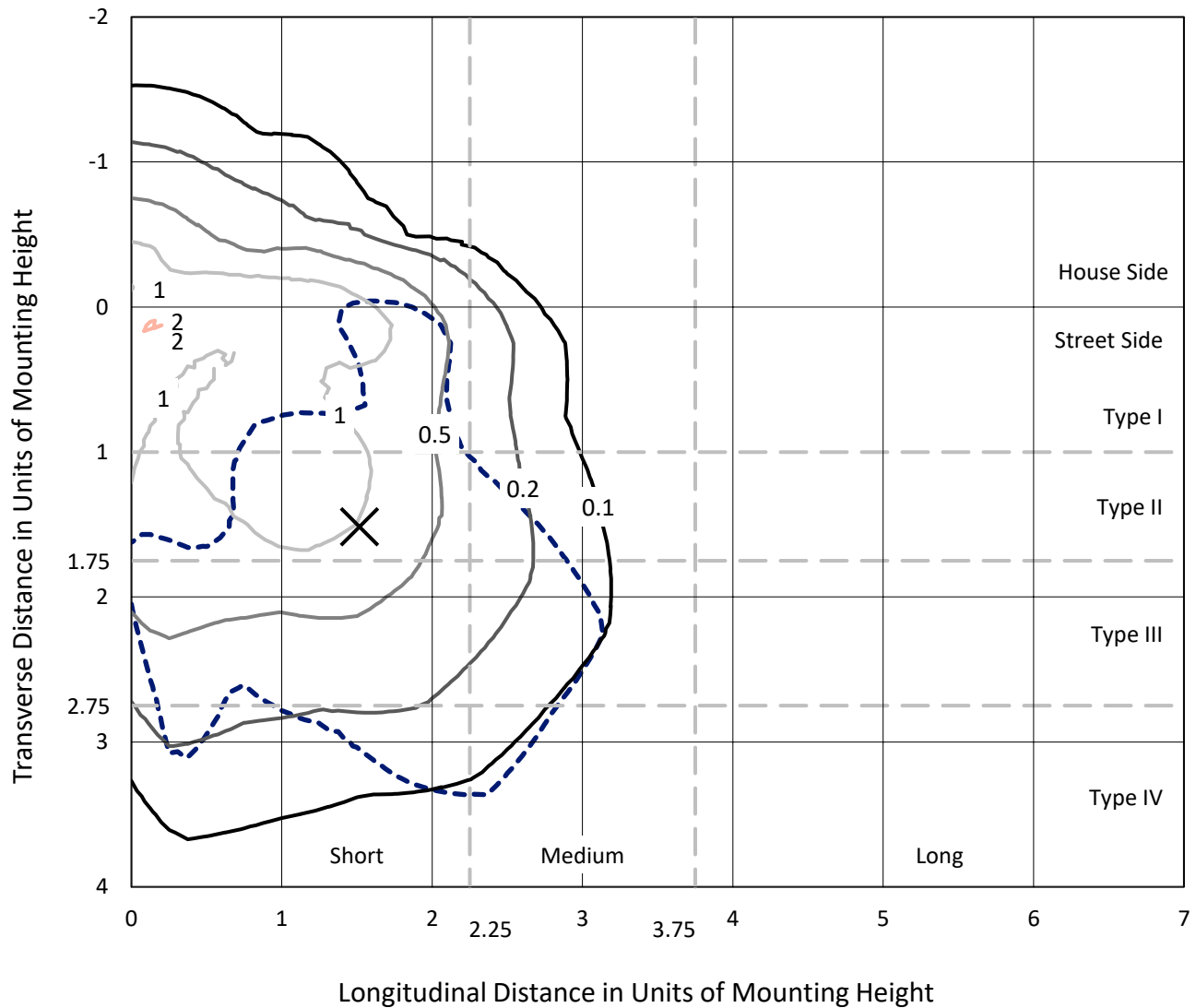


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Iso-Footcandle Lines of Horizontal Illumination

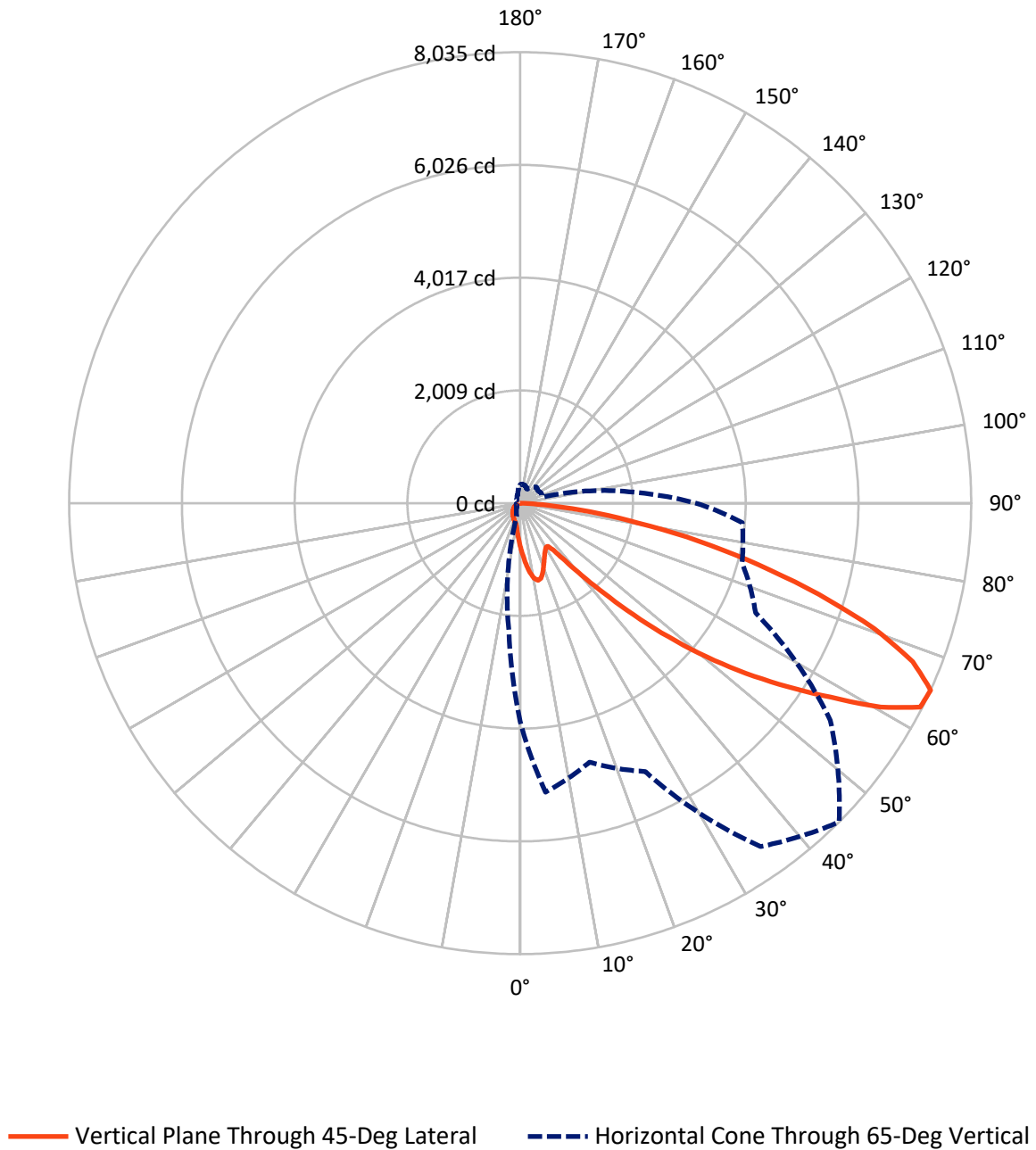
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1136.4	0.0	1136.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4580.6	0.0	4580.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	5717.0	0.0	5717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.4
10°-20°	233.6	4.1
20°-30°	344.2	6.0
30°-40°	442.2	7.7
40°-50°	715.2	12.5
50°-60°	1254.1	21.9
60°-70°	1569.2	27.4
70°-80°	917.0	16.0
80°-90°	163.6	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°	5717.0	100.0
0°-180°	5717.0	100.0

Coefficient of Utilization



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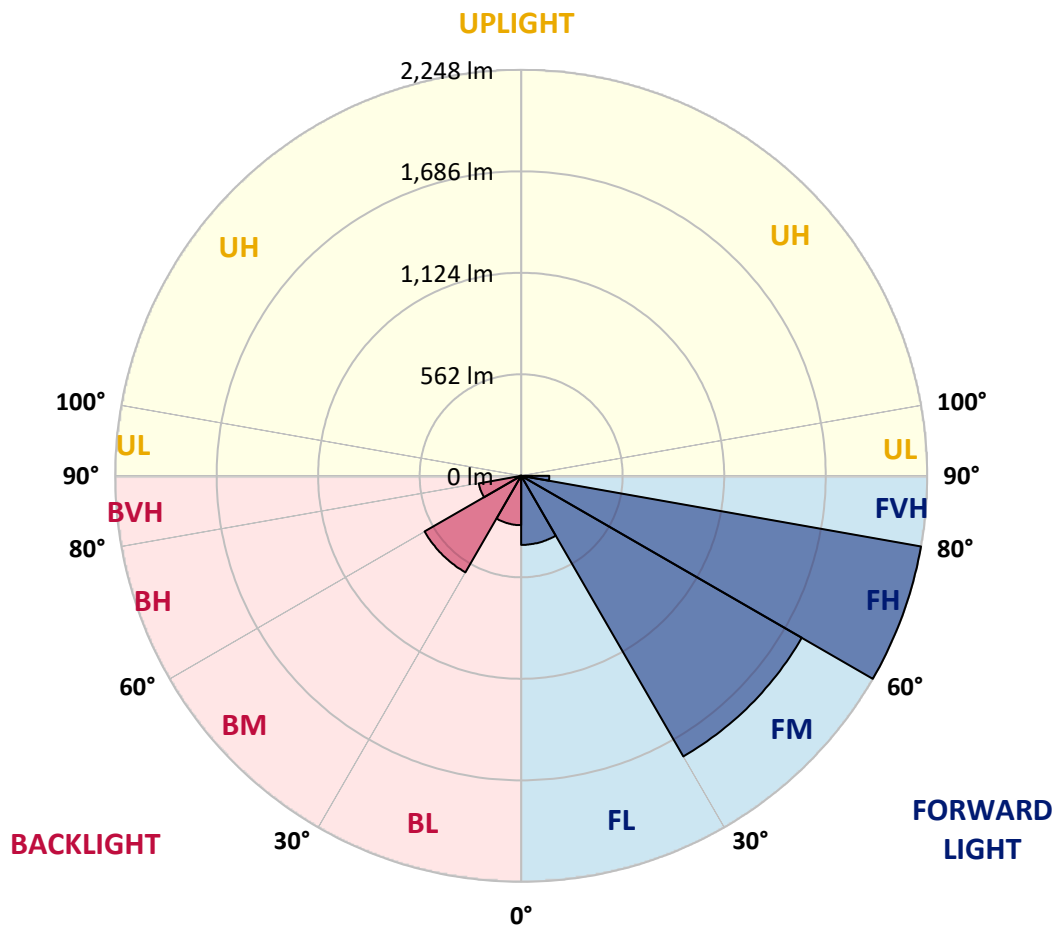
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.5	6.7			
FM	(30°-60°)	1794.1	31.4			
FH	(60°-80°)	2248.1	39.3			G2/5000
FVH	(80°-90°)	155.9	2.7			G2/225
BL	(0°-30°)	273.2	4.8	B1/500		
BM	(30°-60°)	617.4	10.8	B1/1000		
BH	(60°-80°)	238.1	4.2	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	90°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	886.9	893.6	908.6	916.5	928.7	929.5	929.5	918.8	918.4	896.8	894.4
5°	991.3	1007.1	1042.5	1079.1	1087.0	1089.0	1085.0	1063.8	1048.0	1005.9	996.8
7.5°	1094.9	1125.2	1179.2	1228.0	1243.8	1243.8	1234.3	1199.6	1167.3	1106.3	1083.5
10°	1180.7	1218.9	1292.2	1346.9	1365.1	1361.1	1341.8	1298.1	1253.6	1179.6	1149.6
12.5°	1237.5	1280.4	1360.7	1404.8	1423.3	1413.1	1391.0	1348.5	1301.6	1223.7	1189.8
15°	1265.8	1310.7	1380.4	1403.7	1398.5	1387.9	1385.1	1364.7	1329.2	1256.4	1219.3
17.5°	1278.0	1319.8	1368.2	1353.6	1310.3	1302.0	1329.6	1355.6	1346.9	1284.7	1250.1
20°	1289.4	1324.5	1339.1	1274.5	1198.9	1191.4	1244.1	1318.2	1356.0	1311.1	1279.2
22.5°	1305.2	1326.9	1296.9	1191.0	1109.5	1092.1	1150.4	1261.9	1358.8	1344.6	1312.7
25°	1326.9	1332.8	1250.4	1111.8	1029.9	1012.6	1066.9	1199.2	1354.0	1380.8	1353.6
27.5°	1352.8	1340.6	1205.9	1045.6	966.5	950.3	1004.7	1139.0	1340.6	1417.0	1397.7
30°	1386.7	1350.9	1161.8	994.4	921.2	909.4	961.8	1087.0	1324.1	1463.1	1452.5
32.5°	1421.0	1355.2	1120.9	964.5	911.0	915.3	958.2	1059.0	1306.0	1507.2	1512.4
35°	1458.0	1369.0	1100.8	994.1	996.4	1034.2	1052.0	1085.0	1303.2	1567.1	1587.2
37.5°	1508.4	1399.7	1124.8	1141.0	1222.9	1301.3	1286.7	1212.2	1335.1	1656.5	1693.9
40°	1580.9	1453.7	1229.6	1391.0	1559.2	1686.4	1630.9	1443.4	1432.8	1785.3	1841.2
42.5°	1686.4	1539.5	1415.5	1696.7	1981.8	2191.3	2042.5	1741.6	1603.7	1969.2	2040.5
45°	1842.4	1678.6	1640.4	2019.2	2502.9	2832.9	2523.3	2059.4	1843.2	2247.7	2303.6
47.5°	2058.6	1883.0	1851.1	2359.1	3136.2	3563.1	3056.6	2354.0	2115.7	2627.3	2640.3
50°	2345.7	2158.3	2050.7	2730.9	3830.5	4307.4	3589.5	2638.3	2428.0	3091.3	3076.3
52.5°	2724.6	2542.2	2283.5	3085.0	4544.5	5036.1	4124.7	2888.0	2815.6	3629.6	3598.9
55°	3241.3	3120.0	2601.7	3422.9	5258.2	5769.0	4639.1	3123.6	3327.6	4269.2	4083.3
57.5°	3882.5	3969.1	3060.5	3814.7	5899.7	6524.4	5155.8	3452.8	3992.4	4984.5	4364.6
60°	4296.0	5098.3	3939.2	4394.1	6628.7	7378.6	5863.9	4079.0	4691.0	5240.8	4311.0
62.5°	4196.0	5457.5	4991.5	5133.7	7299.1	7999.7	6557.9	4708.0	4822.6	4863.2	3898.2
65°	3889.2	5167.6	4776.9	5277.5	7468.8	8034.8	6743.4	4626.9	4090.8	3970.3	3133.4
67.5°	3467.0	4823.8	4266.9	4896.2	7162.0	7544.8	6398.0	4092.8	3161.4	2979.4	2273.3
70°	3011.3	4443.3	3932.1	4468.5	6577.2	6691.0	5810.7	3599.7	2325.2	2012.1	1458.8
72.5°	2578.9	4047.1	3702.9	4030.2	5797.0	5561.4	5046.3	3163.7	1693.1	1451.3	1037.0
75°	2136.6	3462.7	3376.4	3509.5	4771.0	4380.7	4192.8	2619.4	1328.8	1050.0	715.6
77.5°	1648.6	2705.7	2904.2	2810.5	3358.3	3253.9	3250.0	1968.4	970.8	700.6	448.6
80°	1128.4	1885.7	2268.9	1982.6	2179.5	2126.4	2447.7	1320.6	704.2	421.8	249.7
82.5°	663.2	1148.0	1579.3	959.8	1205.2	1237.1	1457.6	642.4	414.3	97.3	54.4
85°	269.0	453.3	617.5	375.7	581.3	490.3	553.3	180.4	115.4	2.4	0.0
87.5°	67.7	144.9	101.6	42.1	67.3	61.8	48.8	22.1	4.7	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	879.1	870.0	847.5	825.1	807.0	782.6	766.4	747.1	728.6	712.1	708.9
5°	972.0	942.1	901.1	863.7	825.5	788.5	751.8	713.2	677.8	656.1	642.4
7.5°	1047.6	994.8	940.5	892.8	846.8	803.4	755.0	708.1	652.6	623.1	596.3
10°	1103.9	1034.6	963.3	908.6	862.1	820.0	779.0	731.8	664.8	627.8	587.6
12.5°	1141.0	1058.6	975.2	912.5	860.5	827.9	809.7	791.2	724.7	681.3	623.1
15°	1166.6	1075.6	983.4	903.5	839.7	815.6	833.8	855.0	812.5	762.5	686.5
17.5°	1194.5	1097.6	987.0	879.1	799.1	788.9	835.7	885.0	883.0	833.4	758.9
20°	1224.1	1116.9	984.6	839.7	749.9	758.9	818.8	875.9	899.9	873.1	807.0
22.5°	1254.4	1135.4	975.5	788.5	703.8	732.2	792.0	842.0	870.4	862.1	811.7
25°	1292.6	1161.4	962.2	733.3	665.6	705.0	760.9	801.5	821.2	820.8	786.1
27.5°	1338.3	1196.1	955.1	688.8	638.4	674.3	723.9	760.1	773.9	773.9	746.3
30°	1391.4	1237.1	947.2	659.7	622.7	642.4	681.0	716.4	730.2	730.2	706.9
32.5°	1450.5	1276.4	928.3	642.0	610.8	611.2	635.7	668.0	684.5	686.9	670.3
35°	1521.4	1318.6	886.9	627.8	597.1	580.9	592.7	619.5	639.2	644.3	634.1
37.5°	1614.4	1370.2	827.9	606.9	575.8	549.0	551.8	572.3	593.9	601.8	595.1
40°	1739.2	1430.8	766.4	577.0	545.9	514.0	512.8	527.7	549.0	557.7	554.1
42.5°	1904.2	1503.7	707.7	548.2	509.6	476.9	475.0	486.8	505.3	514.4	512.8
45°	2115.3	1593.1	657.3	525.8	474.2	441.9	441.1	450.9	467.1	476.5	474.6
47.5°	2408.7	1682.5	623.1	514.0	446.2	413.1	414.7	423.4	438.0	444.6	441.9
50°	2791.2	1709.7	605.7	514.0	431.3	387.5	395.4	402.5	413.5	417.5	413.9
52.5°	3158.2	1619.9	590.0	517.1	433.2	365.9	382.8	387.9	397.4	399.0	393.8
55°	3338.2	1392.6	568.3	517.9	445.4	347.4	372.6	382.0	385.6	385.2	376.5
57.5°	3276.4	1126.0	531.7	514.8	453.7	335.6	360.0	378.1	380.5	376.9	360.8
60°	3059.4	829.0	503.7	491.5	450.6	332.0	340.7	369.4	373.0	368.2	341.9
62.5°	2695.5	575.4	482.1	440.3	436.8	330.8	310.3	350.5	359.2	352.5	313.9
65°	2122.0	406.4	415.1	386.0	406.8	324.5	278.8	327.7	339.5	329.3	274.9
67.5°	1435.9	293.4	336.3	349.7	358.4	310.3	256.0	301.7	317.4	304.0	229.6
70°	775.5	206.0	222.1	294.6	304.4	285.9	235.5	275.3	293.4	278.8	187.1
72.5°	458.0	148.1	155.6	236.7	253.6	251.7	212.7	244.6	266.6	249.3	152.0
75°	252.5	100.0	111.1	171.7	206.0	194.2	182.7	207.2	229.6	212.7	117.4
77.5°	113.0	59.9	77.2	112.6	161.9	133.1	141.4	161.5	182.3	164.6	78.4
80°	43.7	33.5	51.2	61.4	117.8	73.6	91.0	118.9	133.9	119.7	47.7
82.5°	5.5	15.0	22.1	24.0	68.5	39.0	52.8	74.8	73.6	63.8	24.0
85°	0.0	2.8	3.2	1.6	29.5	14.2	17.3	24.4	22.8	17.3	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	689.6	675.4	668.3	662.4	668.0	671.1	671.1	684.5	692.4	695.5	717.6
5°	607.7	581.3	563.6	553.0	556.5	560.4	564.8	581.7	593.1	600.6	634.9
7.5°	543.1	502.9	478.1	465.1	467.1	469.9	473.4	489.9	501.4	511.2	549.4
10°	511.2	454.5	421.8	406.1	403.3	401.7	400.5	410.4	419.0	426.9	464.7
12.5°	512.8	433.6	393.8	374.5	366.3	356.8	349.3	350.9	356.4	366.3	390.3
15°	532.9	426.9	379.3	355.2	341.5	330.4	321.4	319.4	321.4	323.0	337.9
17.5°	560.0	426.1	366.7	336.7	322.6	313.5	305.2	302.5	302.9	304.8	308.8
20°	581.7	423.8	352.5	319.0	306.4	298.5	290.3	287.5	288.3	288.7	293.0
22.5°	593.1	420.2	336.7	301.3	290.7	282.8	275.3	274.9	274.9	277.3	280.4
25°	593.1	412.7	322.6	284.4	274.9	267.8	258.8	260.3	261.1	264.3	269.0
27.5°	578.9	398.6	311.1	269.8	259.9	252.8	244.6	246.5	247.7	251.3	257.2
30°	560.8	381.6	298.1	256.0	244.6	239.5	232.4	233.2	234.7	238.7	245.4
32.5°	541.5	361.5	287.5	242.2	230.8	226.9	219.0	220.2	221.7	226.1	233.5
35°	520.3	337.9	274.9	229.6	218.2	215.0	206.0	206.8	209.1	213.9	221.3
37.5°	497.8	318.6	262.3	217.4	205.6	202.4	193.0	193.8	196.5	202.0	209.1
40°	475.8	299.7	248.9	204.4	192.6	189.8	179.6	180.4	183.5	189.4	196.9
42.5°	451.7	285.1	231.6	191.0	178.4	175.7	166.2	167.4	170.9	176.8	184.3
45°	423.0	275.7	212.3	178.4	164.2	161.5	152.8	155.2	159.1	165.0	172.9
47.5°	393.4	271.8	196.1	165.0	149.7	147.3	140.2	144.1	148.5	153.2	161.9
50°	365.1	266.6	179.6	152.4	137.1	134.7	130.0	135.1	139.4	143.8	152.0
52.5°	332.8	255.6	164.6	141.4	126.4	125.6	123.3	128.0	131.9	135.9	143.0
55°	299.3	237.9	151.6	131.5	117.4	118.2	117.0	120.9	124.1	127.6	133.9
57.5°	270.2	215.4	141.4	120.9	109.5	111.9	110.3	112.2	114.2	118.5	123.7
60°	240.6	188.7	130.0	108.3	101.6	104.4	100.0	99.6	100.4	101.6	111.1
62.5°	200.9	160.7	115.8	97.3	92.9	94.1	85.9	79.6	79.6	80.7	94.9
65°	161.5	134.7	100.0	84.7	81.1	80.3	68.5	59.9	59.1	62.6	74.8
67.5°	132.7	111.9	84.3	70.5	68.1	68.9	60.3	51.6	50.8	54.7	63.8
70°	109.9	90.2	67.3	54.4	56.7	60.3	51.6	43.3	42.1	45.7	54.4
72.5°	87.4	70.5	51.6	40.2	46.9	51.2	42.1	34.3	33.5	36.6	44.9
75°	64.2	50.4	35.1	29.1	36.2	40.2	30.7	24.4	23.2	26.0	34.3
77.5°	39.8	28.4	22.1	17.3	24.8	26.8	16.1	14.2	13.8	15.8	21.7
80°	18.5	12.2	10.6	5.9	9.1	10.6	6.7	7.5	7.9	9.5	13.4
82.5°	5.1	2.0	0.4	0.0	0.0	3.2	1.6	3.2	3.9	5.9	8.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.5	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	791.6	791.6	791.6	791.6	791.6	791.6	791.6	791.6
2.5°	734.1	749.9	775.1	801.1	826.7	852.7	877.9	886.9
5°	666.0	702.2	752.2	805.8	860.9	916.9	968.1	991.3
7.5°	590.0	642.0	717.2	801.1	888.9	976.7	1057.5	1094.9
10°	508.8	574.6	660.5	773.9	899.9	1021.2	1132.3	1180.7
12.5°	431.7	500.6	595.5	731.4	891.3	1046.8	1180.3	1237.5
15°	367.1	428.1	530.5	681.0	863.3	1048.4	1203.2	1265.8
17.5°	318.6	358.4	464.3	625.0	826.7	1033.8	1211.1	1278.0
20°	294.6	305.6	378.5	553.3	792.4	1020.0	1218.9	1289.4
22.5°	280.4	283.2	309.6	460.8	751.4	1015.7	1232.7	1305.2
25°	269.0	269.8	276.9	365.1	688.8	1013.0	1254.0	1326.9
27.5°	257.6	257.6	261.5	294.2	603.8	1001.1	1281.6	1352.8
30°	246.2	246.2	248.9	260.3	504.1	977.9	1314.6	1386.7
32.5°	234.3	234.3	236.7	245.0	402.5	948.8	1345.0	1421.0
35°	222.5	221.7	224.9	233.5	320.2	911.7	1375.3	1458.0
37.5°	209.9	209.5	212.7	222.5	276.5	868.8	1398.1	1508.4
40°	196.5	196.5	200.1	210.7	263.9	814.9	1434.4	1580.9
42.5°	184.3	183.5	187.5	200.5	254.4	763.3	1499.4	1686.4
45°	172.5	170.9	174.5	190.6	237.9	745.1	1620.7	1842.4
47.5°	161.5	157.5	160.7	178.8	222.9	812.9	1819.2	2058.6
50°	152.4	144.9	147.7	167.0	211.5	959.8	2076.7	2345.7
52.5°	143.0	133.1	134.7	152.4	201.3	1099.6	2356.0	2724.6
55°	133.1	122.1	122.9	137.8	186.7	1120.5	2628.5	3241.3
57.5°	122.1	111.9	111.9	124.5	176.0	971.2	2838.0	3882.5
60°	109.9	103.2	101.2	113.8	185.5	685.3	2862.4	4296.0
62.5°	96.5	92.9	90.2	103.6	192.6	406.1	2665.9	4196.0
65°	81.1	80.3	78.4	113.8	162.3	239.8	2288.6	3889.2
67.5°	68.1	67.0	67.0	119.3	123.3	150.8	1788.0	3467.0
70°	58.7	54.4	54.4	90.2	74.8	104.4	1248.5	3011.3
72.5°	49.2	44.5	41.4	72.1	55.9	76.4	780.2	2578.9
75°	39.4	35.8	31.9	47.7	41.7	57.9	453.3	2136.6
77.5°	28.4	26.8	22.4	35.1	30.3	41.7	269.8	1648.6
80°	14.6	15.0	14.2	20.1	20.5	28.4	153.6	1128.4
82.5°	8.7	6.7	7.5	9.8	11.8	16.1	57.9	663.2
85°	5.5	3.5	3.5	4.7	5.9	6.3	17.7	269.0
87.5°	2.8	1.2	1.6	2.4	2.0	1.6	0.8	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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