

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: P947718

Luminaire Tested: **GALN-SB3A-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947718
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-SB3A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

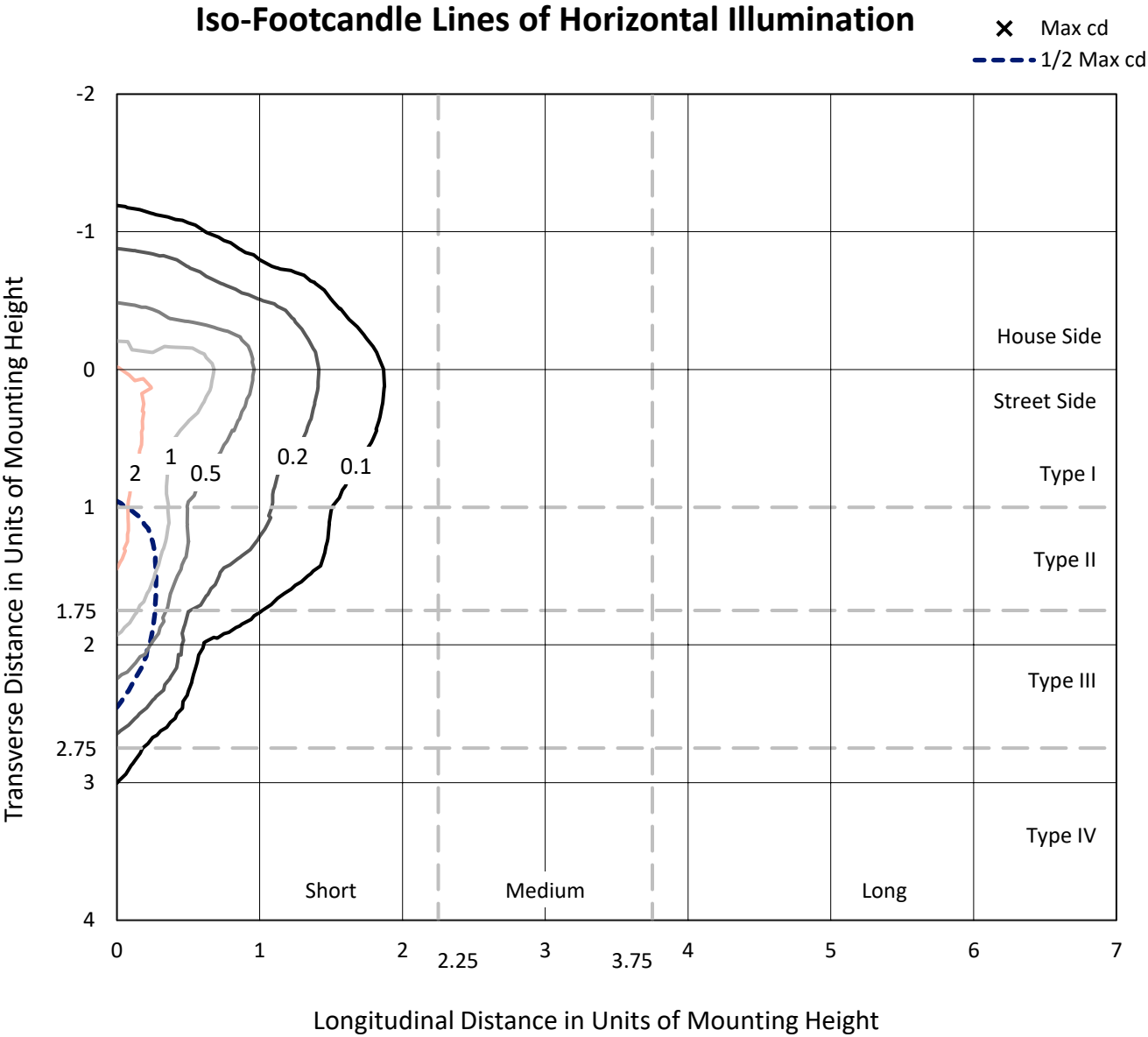
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9527 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 84.7
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



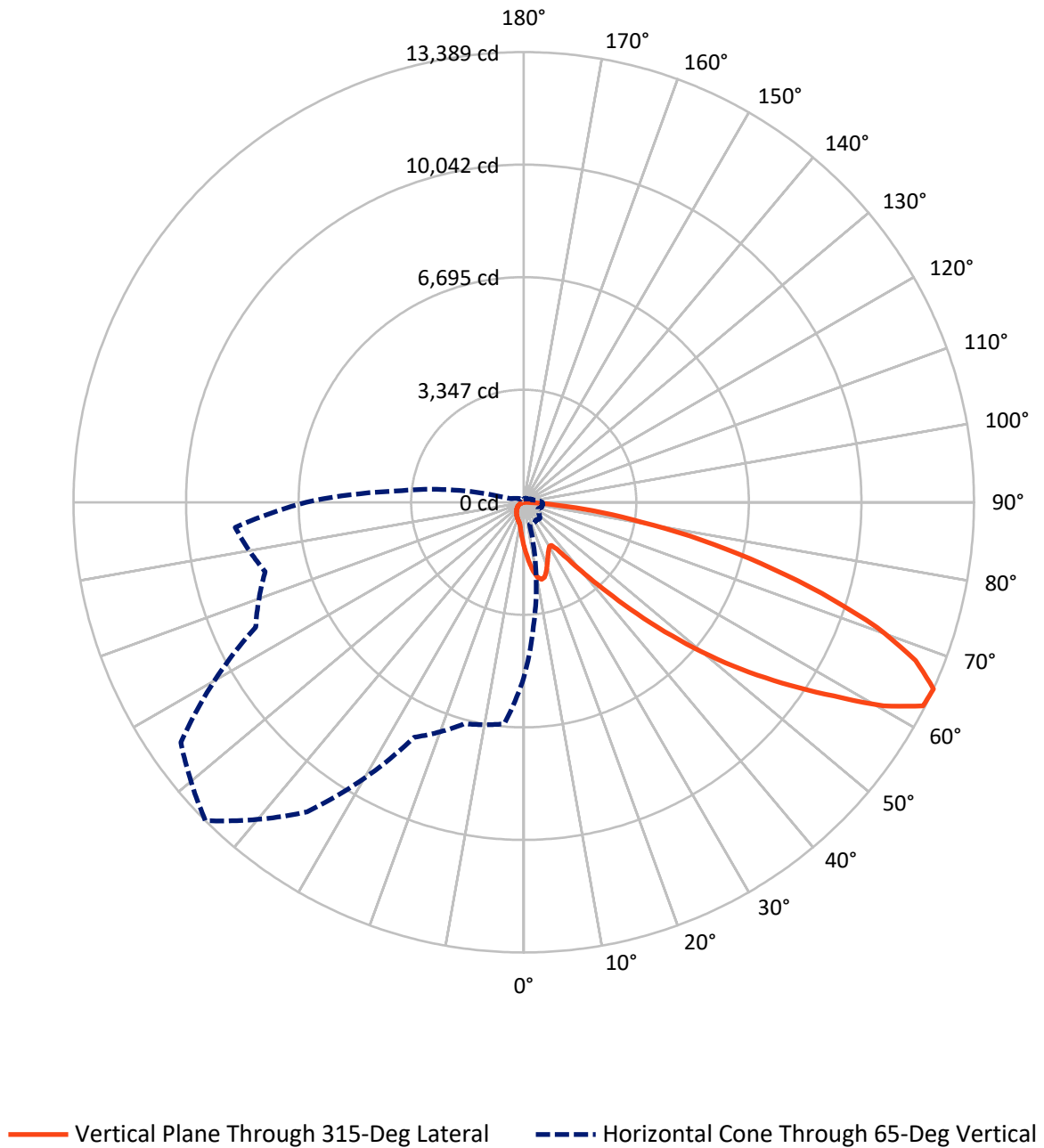
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Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.2	0.0	1334.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8192.8	0.0	8192.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	9527.0	0.0	9527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.4
10°-20°	389.3	4.1
20°-30°	573.6	6.0
30°-40°	736.9	7.7
40°-50°	1191.8	12.5
50°-60°	2089.9	21.9
60°-70°	2615.0	27.4
70°-80°	1528.1	16.0
80°-90°	272.6	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°	9527.0	100.0
0°-180°	9527.0	100.0

Coefficient of Utilization



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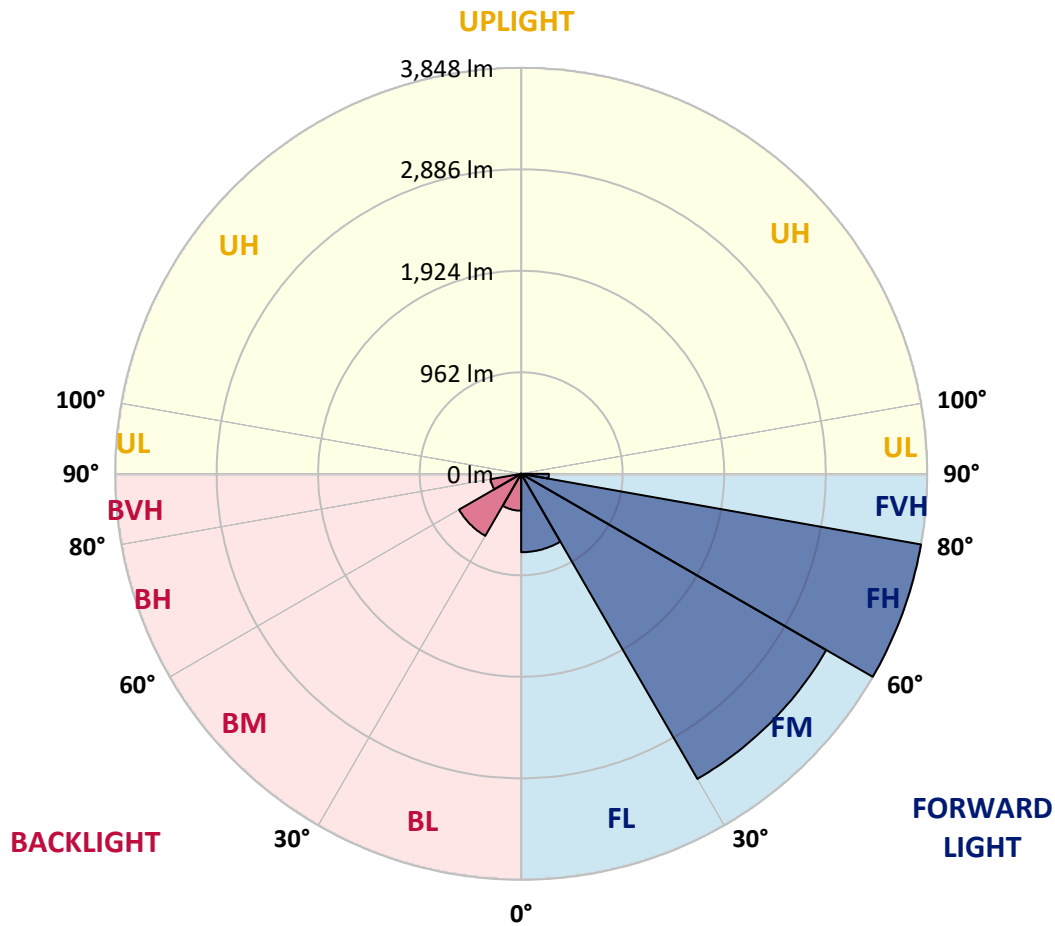
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	743.1	7.8			
FM	(30°-60°)	3339.1	35.0			
FH	(60°-80°)	3848.5	40.4			G2/5000
FVH	(80°-90°)	262.2	2.8			G3/500
BL	(0°-30°)	349.7	3.7	B1/500		
BM	(30°-60°)	679.4	7.1	B1/1000		
BH	(60°-80°)	294.6	3.1	B1/500		G1/500
BVH	(80°-90°)	10.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1490.5	1464.9	1449.8	1412.4	1375.0	1344.8	1304.1	1277.2	1245.0	1214.2	1186.6
5°	1661.1	1619.8	1569.9	1501.6	1439.3	1375.6	1313.9	1252.9	1188.6	1129.5	1093.4
7.5°	1805.5	1745.8	1657.8	1567.3	1487.9	1411.1	1338.9	1258.1	1180.0	1087.5	1038.3
10°	1915.8	1839.6	1724.1	1605.3	1514.1	1436.7	1366.4	1298.2	1219.4	1107.9	1046.2
12.5°	1982.7	1901.3	1764.2	1625.0	1520.7	1434.0	1379.6	1349.4	1318.5	1207.6	1135.4
15°	2031.9	1944.0	1792.4	1638.8	1505.6	1399.3	1359.2	1389.4	1424.9	1354.0	1270.6
17.5°	2083.1	1990.6	1829.1	1644.7	1464.9	1331.7	1314.6	1392.7	1474.7	1471.4	1388.8
20°	2131.7	2039.8	1861.3	1640.8	1399.3	1249.6	1264.7	1364.5	1459.6	1499.7	1455.0
22.5°	2187.5	2090.3	1892.1	1625.7	1313.9	1172.8	1220.1	1319.8	1403.2	1450.4	1436.7
25°	2255.7	2154.0	1935.5	1603.4	1222.1	1109.2	1174.8	1268.0	1335.6	1368.4	1367.8
27.5°	2329.2	2230.1	1993.2	1591.6	1147.9	1063.9	1123.6	1206.3	1266.7	1289.7	1289.7
30°	2420.5	2318.7	2061.5	1578.4	1099.3	1037.6	1070.4	1134.8	1193.8	1216.8	1216.8
32.5°	2520.2	2417.2	2127.1	1546.9	1069.8	1017.9	1018.6	1059.3	1113.1	1140.7	1144.6
35°	2644.9	2535.3	2197.3	1478.0	1046.2	995.0	968.1	987.7	1032.4	1065.2	1073.7
37.5°	2822.8	2690.2	2283.3	1379.6	1011.4	959.5	914.9	919.5	953.6	989.7	1002.8
40°	3068.3	2898.3	2384.4	1277.2	961.5	909.6	856.5	854.5	879.5	914.9	929.3
42.5°	3400.3	3173.3	2505.8	1179.4	913.6	849.3	794.8	791.5	811.2	842.0	857.1
45°	3838.8	3525.0	2654.8	1095.4	876.2	790.2	736.4	735.1	751.5	778.4	794.1
47.5°	4399.9	4014.0	2803.8	1038.3	856.5	743.6	688.5	691.1	705.5	729.8	741.0
50°	5126.4	4651.3	2849.0	1009.4	856.5	718.7	645.8	658.9	670.7	689.1	695.7
52.5°	5997.4	5263.0	2699.4	983.2	861.7	721.9	609.7	637.9	646.5	662.2	664.8
55°	6804.6	5562.9	2320.7	947.1	863.0	742.3	578.9	620.9	636.6	642.5	641.9
57.5°	7273.2	5459.8	1876.4	886.0	857.8	756.1	559.2	599.9	630.1	634.0	628.1
60°	7184.0	5098.2	1381.5	839.4	819.1	750.8	553.3	567.7	615.6	621.5	613.7
62.5°	6496.2	4491.8	958.9	803.3	733.8	727.8	551.3	517.2	584.1	598.6	587.4
65°	5221.6	3536.2	677.3	691.8	643.2	678.0	540.8	464.7	546.1	565.7	548.7
67.5°	3788.2	2392.9	489.0	560.5	582.8	597.2	517.2	426.6	502.7	529.0	506.7
70°	2431.0	1292.3	343.3	370.2	490.9	507.3	476.5	392.5	458.8	489.0	464.7
72.5°	1728.1	763.3	246.8	259.2	394.4	422.7	419.4	354.4	407.6	444.3	415.4
75°	1192.5	420.7	166.7	185.1	286.2	343.3	323.6	304.5	345.2	382.6	354.4
77.5°	747.5	188.4	99.8	128.6	187.7	269.7	221.8	235.6	269.1	303.9	274.3
80°	416.1	72.9	55.8	85.3	102.4	196.2	122.7	151.6	198.2	223.1	199.5
82.5°	90.6	9.2	24.9	36.8	40.0	114.2	65.0	87.9	124.7	122.7	106.3
85°	0.0	0.0	4.6	5.3	2.6	49.2	23.6	28.9	40.7	38.1	28.9
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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1181.4	1149.2	1125.6	1113.8	1103.9	1113.1	1118.4	1118.4	1140.7	1153.8	1159.0
5°	1070.4	1012.7	968.7	939.2	921.5	927.4	933.9	941.1	969.4	988.4	1000.9
7.5°	993.7	905.1	838.1	796.8	775.1	778.4	783.0	788.9	816.5	835.5	851.9
10°	979.2	851.9	757.4	702.9	676.7	672.1	669.4	667.5	683.9	698.3	711.4
12.5°	1038.3	854.5	722.6	656.3	624.2	610.4	594.6	582.1	584.8	594.0	610.4
15°	1143.9	888.0	711.4	632.0	592.0	569.0	550.6	535.5	532.3	535.5	538.2
17.5°	1264.7	933.3	710.1	611.0	561.1	537.5	522.4	508.6	504.0	504.7	508.0
20°	1344.8	969.4	706.2	587.4	531.6	510.6	497.5	483.7	479.1	480.4	481.1
22.5°	1352.7	988.4	700.3	561.1	502.1	484.4	471.2	458.8	458.1	458.1	462.0
25°	1310.0	988.4	687.8	537.5	473.9	458.1	446.3	431.2	433.8	435.1	440.4
27.5°	1243.7	964.8	664.2	518.5	449.6	433.2	421.4	407.6	410.9	412.8	418.7
30°	1178.1	934.6	636.0	496.8	426.6	407.6	399.0	387.2	388.5	391.2	397.7
32.5°	1117.0	902.4	602.5	479.1	403.6	384.6	378.0	364.9	366.9	369.5	376.7
35°	1056.7	867.0	563.1	458.1	382.6	363.6	358.3	343.3	344.6	348.5	356.4
37.5°	991.7	829.6	531.0	437.1	362.3	342.6	337.3	321.6	322.9	327.5	336.7
40°	923.4	792.8	499.5	414.8	340.6	320.9	316.3	299.3	300.6	305.8	315.7
42.5°	854.5	752.8	475.2	385.9	318.3	297.3	292.7	277.0	278.9	284.8	294.7
45°	790.9	704.9	459.4	353.8	297.3	273.7	269.1	254.6	258.6	265.1	275.0
47.5°	736.4	655.7	452.9	326.8	275.0	249.4	245.5	233.6	240.2	247.4	255.3
50°	689.8	608.4	444.3	299.3	254.0	228.4	224.5	216.6	225.1	232.3	239.6
52.5°	656.3	554.6	425.9	274.3	235.6	210.7	209.4	205.4	213.3	219.9	226.4
55°	627.4	498.8	396.4	252.7	219.2	195.6	196.9	194.9	201.5	206.7	212.6
57.5°	601.2	450.2	359.0	235.6	201.5	182.5	186.4	183.8	187.0	190.3	197.5
60°	569.7	401.0	314.4	216.6	180.5	169.3	173.9	166.7	166.0	167.4	169.3
62.5°	523.1	334.7	267.8	193.0	162.1	154.9	156.9	143.1	132.6	132.6	134.5
65°	458.1	269.1	224.5	166.7	141.1	135.2	133.9	114.2	99.8	98.4	104.4
67.5°	382.6	221.2	186.4	140.5	117.5	113.5	114.9	100.4	86.0	84.7	91.2
70°	311.7	183.1	150.3	112.2	90.6	94.5	100.4	86.0	72.2	70.2	76.1
72.5°	253.3	145.7	117.5	86.0	66.9	78.1	85.3	70.2	57.1	55.8	61.0
75°	195.6	107.0	84.0	58.4	48.6	60.4	66.9	51.2	40.7	38.7	43.3
77.5°	130.6	66.3	47.3	36.8	28.9	41.3	44.6	26.9	23.6	23.0	26.3
80°	79.4	30.8	20.3	17.7	9.8	15.1	17.7	11.2	12.5	13.1	15.8
82.5°	40.0	8.5	3.3	0.7	0.0	0.0	5.3	2.6	5.3	6.6	9.8
85°	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.3	5.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1195.8	1223.4	1249.6	1291.6	1334.9	1377.6	1420.9	1462.9	1478.0	1489.2	1514.1
5°	1058.0	1109.8	1170.2	1253.6	1342.8	1434.7	1527.9	1613.2	1651.9	1678.2	1737.3
7.5°	915.6	983.2	1069.8	1195.1	1334.9	1481.3	1627.7	1762.2	1824.5	1875.1	1965.0
10°	774.4	848.0	957.6	1100.6	1289.7	1499.7	1701.8	1886.9	1967.6	2031.3	2153.4
12.5°	650.4	719.3	834.2	992.3	1218.8	1485.2	1744.5	1967.0	2062.1	2133.7	2267.6
15°	563.1	611.7	713.4	884.1	1134.8	1438.6	1747.1	2005.0	2109.4	2184.2	2300.4
17.5°	514.5	531.0	597.2	773.8	1041.6	1377.6	1722.8	2018.2	2129.7	2199.3	2280.0
20°	488.3	490.9	509.3	630.7	922.1	1320.5	1699.8	2031.3	2148.8	2207.2	2231.5
22.5°	467.3	467.3	471.9	515.9	767.9	1252.2	1692.6	2054.3	2175.0	2211.1	2161.2
25°	448.3	448.3	449.6	461.4	608.4	1147.9	1688.0	2089.7	2211.1	2221.0	2083.8
27.5°	428.6	429.2	429.2	435.8	490.3	1006.1	1668.3	2135.6	2254.4	2234.1	2009.6
30°	408.9	410.2	410.2	414.8	433.8	840.1	1629.6	2190.8	2310.9	2251.1	1936.1
32.5°	389.2	390.5	390.5	394.4	408.2	670.7	1581.1	2241.3	2368.0	2258.4	1867.9
35°	368.8	370.8	369.5	374.8	389.2	533.6	1519.4	2291.8	2429.7	2281.3	1834.4
37.5°	348.5	349.8	349.2	354.4	370.8	460.7	1447.8	2329.9	2513.7	2332.5	1874.4
40°	328.2	327.5	327.5	333.4	351.1	439.7	1357.9	2390.3	2634.4	2422.4	2049.0
42.5°	307.2	307.2	305.8	312.4	334.1	424.0	1271.9	2498.6	2810.3	2565.5	2358.8
45°	288.1	287.5	284.8	290.7	317.7	396.4	1241.7	2700.7	3070.2	2797.2	2733.5
47.5°	269.7	269.1	262.5	267.8	298.0	371.5	1354.6	3031.5	3430.5	3137.8	3084.7
50°	253.3	254.0	241.5	246.1	278.3	352.4	1599.4	3460.7	3909.0	3596.6	3417.4
52.5°	238.2	238.2	221.8	224.5	254.0	335.4	1832.4	3926.1	4540.4	4236.5	3805.3
55°	223.1	221.8	203.5	204.8	229.7	311.1	1867.2	4380.2	5401.4	5199.3	4335.6
57.5°	206.1	203.5	186.4	186.4	207.4	293.4	1618.5	4729.4	6469.9	6614.3	5100.2
60°	185.1	183.1	172.0	168.7	189.7	309.1	1142.0	4770.1	7159.0	8495.9	6564.4
62.5°	158.2	160.8	154.9	150.3	172.6	320.9	676.7	4442.6	6992.3	9094.5	8318.1
65°	124.7	135.2	133.9	130.6	189.7	270.4	399.7	3813.8	6481.1	8611.5	7960.4
67.5°	106.3	113.5	111.6	111.6	198.9	205.4	251.4	2979.7	5777.5	8038.5	7110.5
70°	90.6	97.8	90.6	90.6	150.3	124.7	173.9	2080.5	5018.2	7404.5	6552.6
72.5°	74.8	82.0	74.2	68.9	120.1	93.2	127.3	1300.2	4297.5	6744.2	6170.6
75°	57.1	65.6	59.7	53.2	79.4	69.6	96.5	755.4	3560.5	5770.3	5626.6
77.5°	36.1	47.3	44.6	37.4	58.4	50.5	69.6	449.6	2747.3	4508.9	4839.6
80°	22.3	24.3	24.9	23.6	33.5	34.1	47.3	256.0	1880.3	3142.4	3781.0
82.5°	14.4	14.4	11.2	12.5	16.4	19.7	26.9	96.5	1105.2	1913.1	2631.8
85°	10.5	9.2	5.9	5.9	7.9	9.8	10.5	29.5	448.3	755.4	1029.1
87.5°	5.3	4.6	2.0	2.6	3.9	3.3	2.6	1.3	112.9	241.5	169.3
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°	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1527.2	1547.6	1548.9	1548.9	1531.2	1530.5	1494.4	1490.5
5°	1798.3	1811.4	1814.7	1808.1	1772.7	1746.4	1676.2	1661.1
7.5°	2046.4	2072.6	2072.6	2056.9	1999.1	1945.3	1843.6	1805.5
10°	2244.6	2274.8	2268.2	2236.1	2163.2	2089.0	1965.7	1915.8
12.5°	2341.1	2371.9	2354.8	2318.1	2247.2	2169.1	2039.2	1982.7
15°	2339.1	2330.6	2312.8	2308.2	2274.1	2215.0	2093.6	2031.9
17.5°	2255.7	2183.5	2169.8	2215.7	2259.0	2244.6	2140.9	2083.1
20°	2123.8	1997.8	1985.3	2073.3	2196.7	2259.7	2184.9	2131.7
22.5°	1984.7	1848.8	1819.9	1917.1	2102.8	2264.3	2240.6	2187.5
25°	1852.8	1716.3	1687.4	1777.9	1998.5	2256.4	2301.0	2255.7
27.5°	1742.5	1610.6	1583.7	1674.2	1898.1	2234.1	2361.4	2329.2
30°	1657.2	1535.1	1515.4	1602.7	1811.4	2206.5	2438.2	2420.5
32.5°	1607.3	1518.0	1525.3	1596.8	1764.8	2176.3	2511.7	2520.2
35°	1656.5	1660.5	1723.5	1753.0	1808.1	2171.7	2611.5	2644.9
37.5°	1901.3	2037.8	2168.5	2144.2	2020.1	2224.9	2760.4	2822.8
40°	2318.1	2598.3	2810.3	2717.8	2405.4	2387.7	2975.1	3068.3
42.5°	2827.4	3302.6	3651.7	3403.6	2902.2	2672.5	3281.6	3400.3
45°	3364.9	4170.9	4720.8	4205.0	3431.8	3071.5	3745.6	3838.8
47.5°	3931.3	5226.2	5937.6	5093.6	3922.8	3525.7	4378.2	4399.9
50°	4550.9	6383.3	7178.1	5981.6	4396.6	4046.2	5151.4	5126.4
52.5°	5140.9	7573.2	8392.2	6873.5	4812.7	4692.0	6048.6	5997.4
55°	5704.0	8762.4	9613.6	7730.7	5205.2	5545.2	7114.4	6804.6
57.5°	6357.0	9831.5	10872.4	8591.8	5753.9	6653.0	8306.3	7273.2
60°	7322.5	11046.4	12296.0	9771.8	6797.4	7817.3	8733.5	7184.0
62.5°	8555.0	12163.4	13331.0	10928.2	7845.5	8036.5	8104.1	6496.2
65°	8794.6	12446.3	13389.4	11237.4	7710.3	6817.1	6616.3	5221.6
67.5°	8159.3	11935.0	12572.9	10661.8	6820.4	5268.2	4965.0	3788.2
70°	7446.5	10960.4	11150.1	9683.2	5998.7	3874.9	3353.1	2431.0
72.5°	6716.0	9660.2	9267.8	8409.3	5272.1	2821.5	2418.5	1728.1
75°	5848.4	7950.5	7300.1	6987.1	4365.1	2214.4	1749.7	1192.5
77.5°	4683.4	5596.4	5422.4	5415.9	3280.2	1617.8	1167.6	747.5
80°	3303.9	3632.0	3543.4	4079.0	2200.6	1173.5	702.9	416.1
82.5°	1599.4	2008.3	2061.5	2429.0	1070.4	690.4	162.1	90.6
85°	626.1	968.7	817.1	922.1	300.6	192.3	3.9	0.0
87.5°	70.2	112.2	103.0	81.4	36.8	7.9	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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