

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: P945931

Luminaire Tested: **GALN-SB1D-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945931
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 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: 7206 lumens
Efficiency: N/A
Efficacy: 90.5 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

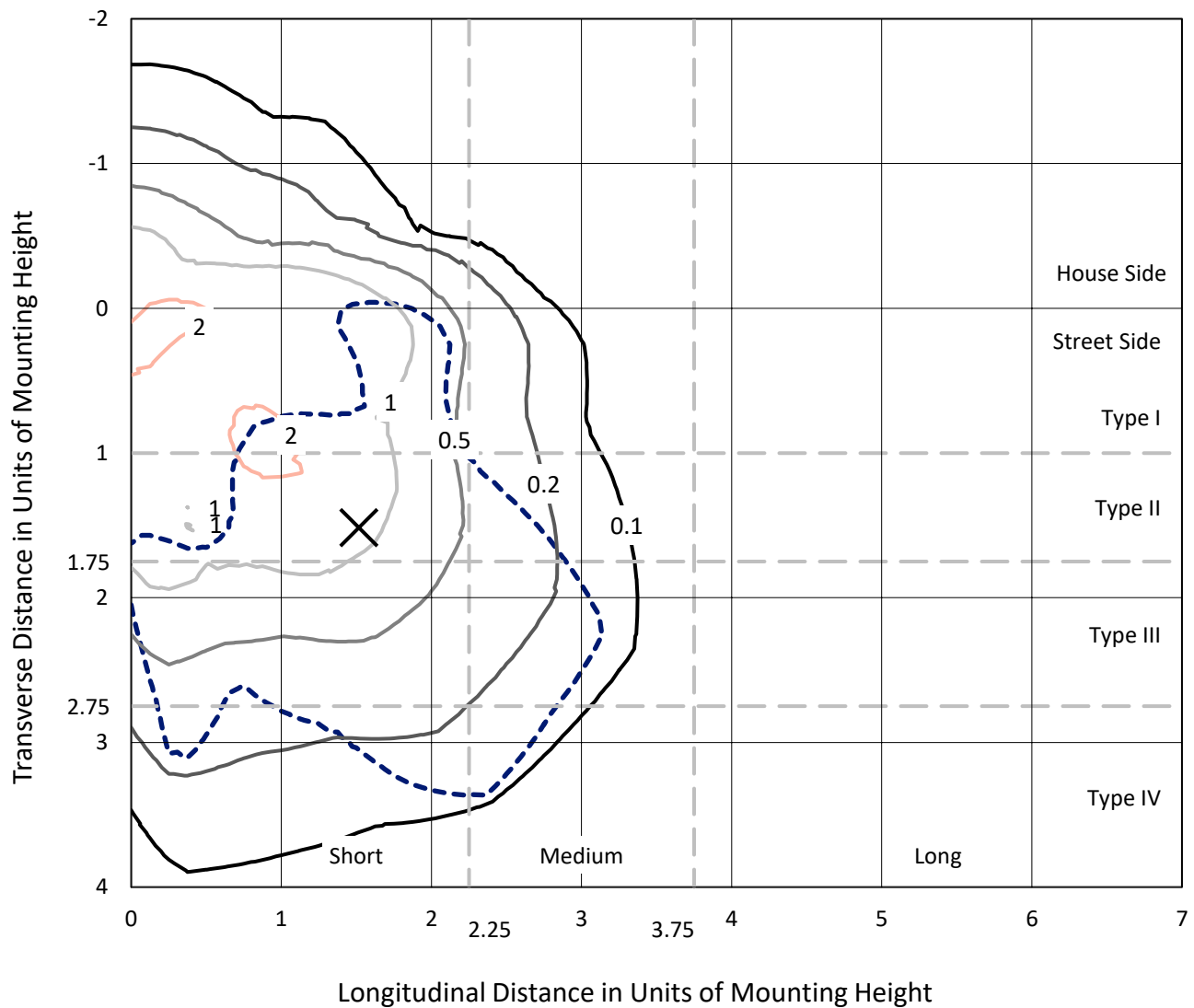


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Iso-Footcandle Lines of Horizontal Illumination

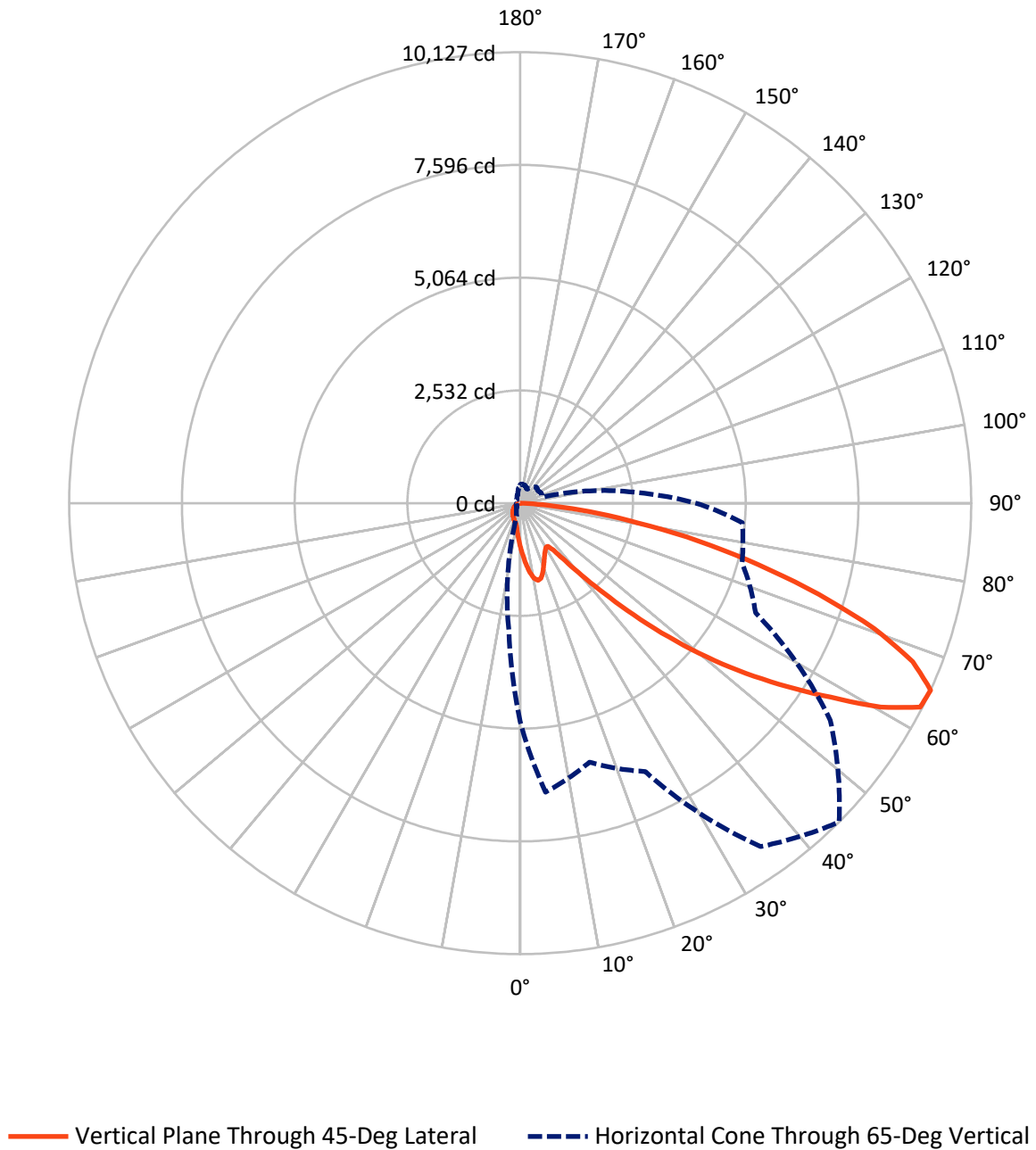
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1432.3	0.0	1432.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5773.7	0.0	5773.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	7206.0	0.0	7206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	1.4
10°-20°	294.5	4.1
20°-30°	433.8	6.0
30°-40°	557.4	7.7
40°-50°	901.4	12.5
50°-60°	1580.7	21.9
60°-70°	1977.9	27.4
70°-80°	1155.8	16.0
80°-90°	206.2	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°	7206.0	100.0
0°-180°	7206.0	100.0

Coefficient of Utilization



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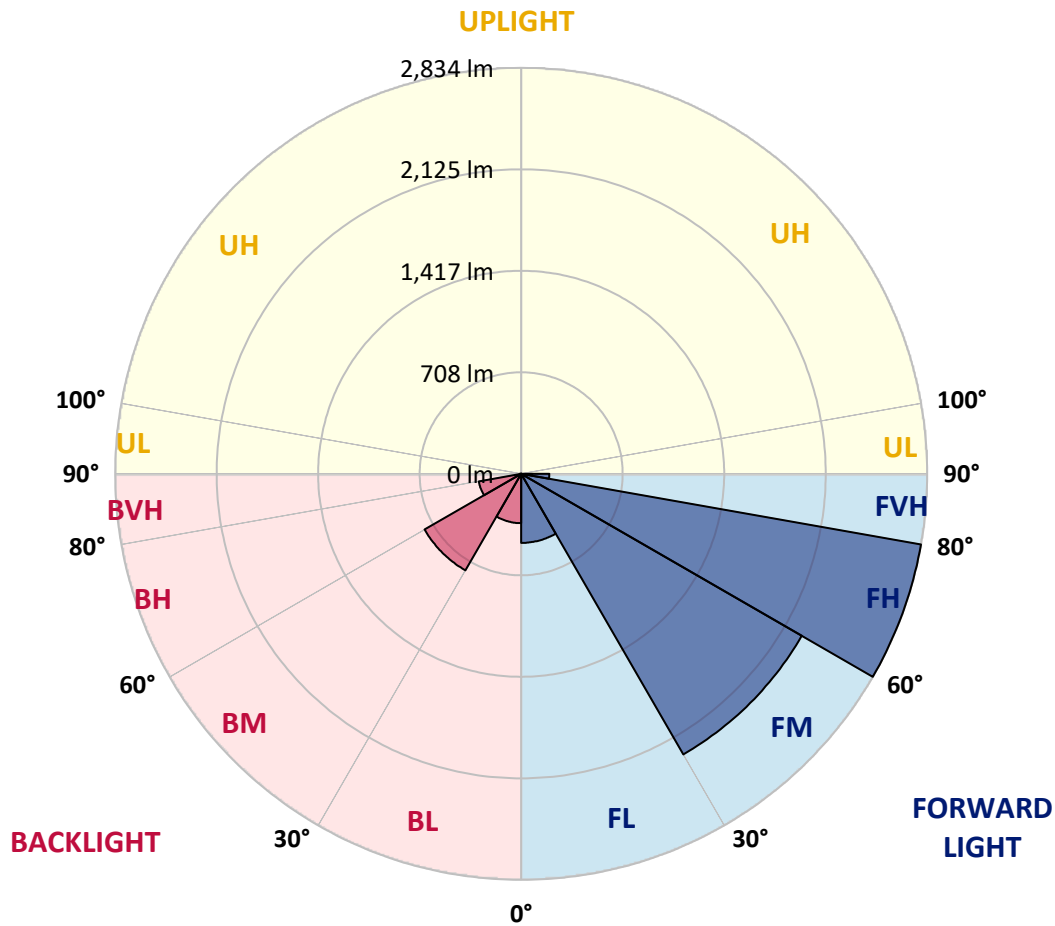
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.2	6.7			
FM	(30°-60°)	2261.3	31.4			
FH	(60°-80°)	2833.6	39.3			G2/5000
FVH	(80°-90°)	196.6	2.7			G2/225
BL	(0°-30°)	344.4	4.8	B1/500		
BM	(30°-60°)	778.2	10.8	B1/1000		
BH	(60°-80°)	300.1	4.2	B1/500		G1/500
BVH	(80°-90°)	9.7	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°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	1117.9	1126.4	1145.2	1155.2	1170.6	1171.5	1171.5	1158.1	1157.6	1130.3	1127.4
5°	1249.5	1269.3	1314.0	1360.2	1370.1	1372.6	1367.6	1340.8	1321.0	1267.9	1256.4
7.5°	1380.0	1418.3	1486.3	1547.8	1567.7	1567.7	1555.8	1512.1	1471.4	1394.4	1365.6
10°	1488.3	1536.4	1628.7	1697.7	1720.6	1715.6	1691.3	1636.2	1580.1	1486.8	1449.0
12.5°	1559.7	1613.9	1715.1	1770.7	1794.1	1781.1	1753.3	1699.7	1640.7	1542.4	1499.7
15°	1595.5	1652.1	1739.9	1769.2	1762.8	1749.4	1745.9	1720.1	1675.4	1583.6	1536.9
17.5°	1610.9	1663.5	1724.6	1706.2	1651.6	1641.2	1675.9	1708.7	1697.7	1619.3	1575.6
20°	1625.3	1669.5	1687.8	1606.4	1511.1	1501.7	1568.2	1661.5	1709.2	1652.6	1612.4
22.5°	1645.1	1672.4	1634.7	1501.2	1398.4	1376.6	1450.0	1590.5	1712.6	1694.8	1654.6
25°	1672.4	1679.9	1576.1	1401.4	1298.1	1276.3	1344.8	1511.6	1706.7	1740.4	1706.2
27.5°	1705.2	1689.8	1520.0	1318.0	1218.2	1197.9	1266.4	1435.6	1689.8	1786.1	1761.8
30°	1747.9	1702.7	1464.4	1253.5	1161.1	1146.2	1212.3	1370.1	1669.0	1844.2	1830.8
32.5°	1791.1	1708.2	1412.8	1215.7	1148.2	1153.7	1207.8	1334.9	1646.1	1899.8	1906.2
35°	1837.7	1725.5	1387.5	1253.0	1255.9	1303.6	1325.9	1367.6	1642.6	1975.2	2000.6
37.5°	1901.3	1764.3	1417.8	1438.1	1541.4	1640.2	1621.8	1528.0	1682.9	2087.9	2135.1
40°	1992.6	1832.3	1549.8	1753.3	1965.3	2125.7	2055.7	1819.4	1806.0	2250.3	2320.8
42.5°	2125.7	1940.5	1784.1	2138.6	2498.0	2762.1	2574.4	2195.2	2021.4	2482.1	2571.9
45°	2322.2	2115.7	2067.6	2545.1	3154.7	3570.7	3180.6	2595.8	2323.2	2833.1	2903.5
47.5°	2594.8	2373.4	2333.2	2973.5	3953.0	4491.1	3852.7	2967.1	2666.8	3311.6	3328.0
50°	2956.7	2720.4	2584.8	3442.2	4828.2	5429.3	4524.4	3325.5	3060.4	3896.4	3877.5
52.5°	3434.2	3204.4	2878.2	3888.4	5728.2	6347.7	5199.0	3640.2	3548.9	4575.0	4536.3
55°	4085.5	3932.6	3279.3	4314.4	6627.7	7271.5	5847.3	3937.1	4194.2	5381.2	5146.9
57.5°	4893.7	5002.9	3857.7	4808.3	7436.3	8223.7	6498.6	4352.1	5032.2	6282.7	5501.3
60°	5414.9	6426.1	4965.2	5538.5	8355.2	9300.4	7391.2	5141.4	5912.8	6605.8	5433.8
62.5°	5288.8	6878.9	6291.6	6470.8	9200.1	10083.2	8265.9	5934.2	6078.6	6129.8	4913.5
65°	4902.1	6513.5	6021.1	6652.0	9414.1	10127.4	8499.7	5831.9	5156.3	5004.4	3949.5
67.5°	4370.0	6080.1	5378.2	6171.5	9027.4	9509.9	8064.3	5158.8	3984.7	3755.4	2865.3
70°	3795.6	5600.6	4956.2	5632.4	8290.2	8433.6	7324.2	4537.3	2930.9	2536.2	1838.7
72.5°	3250.5	5101.2	4667.3	5079.8	7306.8	7009.9	6360.6	3987.7	2134.1	1829.3	1307.1
75°	2693.1	4364.5	4255.8	4423.6	6013.6	5521.7	5284.9	3301.7	1674.9	1323.5	902.0
77.5°	2078.0	3410.4	3660.6	3542.4	4233.0	4101.4	4096.4	2481.1	1223.7	883.1	565.4
80°	1422.2	2376.8	2859.9	2499.0	2747.2	2680.2	3085.2	1664.5	887.6	531.7	314.7
82.5°	836.0	1447.1	1990.6	1209.8	1519.0	1559.2	1837.2	809.7	522.2	122.6	68.5
85°	339.1	571.4	778.4	473.6	732.7	618.0	697.5	227.4	145.5	3.0	0.0
87.5°	85.4	182.7	128.1	53.1	84.9	77.9	61.6	27.8	6.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	1108.0	1096.6	1068.3	1040.0	1017.2	986.4	966.0	941.7	918.4	897.5	893.6
5°	1225.2	1187.4	1135.8	1088.6	1040.5	993.8	947.7	899.0	854.3	827.0	809.7
7.5°	1320.5	1254.0	1185.4	1125.4	1067.3	1012.7	951.6	892.6	822.6	785.3	751.6
10°	1391.5	1304.1	1214.2	1145.2	1086.7	1033.5	981.9	922.3	838.0	791.3	740.7
12.5°	1438.1	1334.4	1229.1	1150.2	1084.7	1043.5	1020.6	997.3	913.4	858.8	785.3
15°	1470.4	1355.7	1239.6	1138.8	1058.4	1028.1	1050.9	1077.7	1024.1	961.1	865.3
17.5°	1505.6	1383.5	1244.0	1108.0	1007.2	994.3	1053.4	1115.5	1113.0	1050.4	956.6
20°	1542.9	1407.8	1241.0	1058.4	945.2	956.6	1032.1	1104.0	1134.3	1100.6	1017.2
22.5°	1581.1	1431.2	1229.6	993.8	887.1	922.8	998.3	1061.3	1097.1	1086.7	1023.1
25°	1629.2	1463.9	1212.7	924.3	838.9	888.6	959.1	1010.2	1035.0	1034.5	990.9
27.5°	1686.8	1507.6	1203.8	868.2	804.7	849.9	912.4	958.1	975.5	975.5	940.7
30°	1753.8	1559.2	1193.9	831.5	784.8	809.7	858.3	903.0	920.4	920.4	891.1
32.5°	1828.3	1608.9	1170.1	809.2	769.9	770.4	801.2	841.9	862.8	865.8	844.9
35°	1917.7	1662.0	1117.9	791.3	752.6	732.2	747.1	780.9	805.7	812.1	799.2
37.5°	2034.8	1727.0	1043.5	765.0	725.8	692.0	695.5	721.3	748.6	758.5	750.1
40°	2192.2	1803.5	966.0	727.3	688.0	647.8	646.3	665.2	692.0	702.9	698.5
42.5°	2400.2	1895.3	892.1	691.0	642.4	601.2	598.7	613.6	636.9	648.3	646.3
45°	2666.3	2008.0	828.5	662.7	597.7	557.0	556.0	568.4	588.8	600.7	598.2
47.5°	3036.1	2120.7	785.3	647.8	562.4	520.7	522.7	533.6	552.0	560.5	557.0
50°	3518.1	2155.0	763.5	647.8	543.6	488.5	498.4	507.3	521.2	526.2	521.7
52.5°	3980.8	2041.8	743.6	651.8	546.1	461.2	482.5	489.0	500.9	502.9	496.4
55°	4207.6	1755.3	716.3	652.8	561.4	437.8	469.6	481.5	486.0	485.5	474.6
57.5°	4129.7	1419.3	670.2	648.8	571.9	422.9	453.7	476.6	479.5	475.1	454.7
60°	3856.2	1045.0	634.9	619.5	567.9	418.5	429.4	465.6	470.1	464.2	430.9
62.5°	3397.5	725.3	607.6	555.0	550.5	417.0	391.2	441.8	452.7	444.3	395.6
65°	2674.7	512.3	523.2	486.5	512.8	409.0	351.5	413.0	427.9	415.0	346.5
67.5°	1809.9	369.8	423.9	440.8	451.7	391.2	322.7	380.3	400.1	383.2	289.4
70°	977.4	259.6	280.0	371.3	383.7	360.4	296.9	347.0	369.8	351.5	235.8
72.5°	577.3	186.7	196.1	298.3	319.7	317.2	268.1	308.3	336.1	314.2	191.6
75°	318.2	126.1	140.0	216.4	259.6	244.7	230.3	261.1	289.4	268.1	147.9
77.5°	142.5	75.5	97.3	142.0	204.0	167.8	178.2	203.5	229.8	207.5	98.8
80°	55.1	42.2	64.5	77.4	148.4	92.8	114.7	149.9	168.8	150.9	60.1
82.5°	6.9	18.9	27.8	30.3	86.4	49.1	66.5	94.3	92.8	80.4	30.3
85°	0.0	3.5	4.0	2.0	37.2	17.9	21.8	30.8	28.8	21.8	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	869.2	851.4	842.4	835.0	841.9	845.9	845.9	862.8	872.7	876.7	904.5
5°	766.0	732.7	710.4	697.0	701.4	706.4	711.9	733.2	747.6	757.0	800.2
7.5°	684.6	633.9	602.7	586.3	588.8	592.2	596.7	617.5	631.9	644.4	692.5
10°	644.4	572.9	531.7	511.8	508.3	506.3	504.9	517.3	528.2	538.1	585.8
12.5°	646.3	546.6	496.4	472.1	461.7	449.8	440.3	442.3	449.3	461.7	492.0
15°	671.7	538.1	478.1	447.8	430.4	416.5	405.1	402.6	405.1	407.1	425.9
17.5°	705.9	537.1	462.2	424.4	406.6	395.1	384.7	381.2	381.7	384.2	389.2
20°	733.2	534.1	444.3	402.1	386.2	376.3	365.9	362.4	363.4	363.9	369.3
22.5°	747.6	529.7	424.4	379.8	366.4	356.4	347.0	346.5	346.5	349.5	353.4
25°	747.6	520.2	406.6	358.4	346.5	337.6	326.1	328.1	329.1	333.1	339.1
27.5°	729.7	502.4	392.2	340.0	327.6	318.7	308.3	310.8	312.2	316.7	324.2
30°	706.9	481.0	375.8	322.7	308.3	301.8	292.9	293.9	295.9	300.8	309.3
32.5°	682.6	455.7	362.4	305.3	290.9	285.9	276.0	277.5	279.5	284.9	294.4
35°	655.8	425.9	346.5	289.4	275.0	271.0	259.6	260.6	263.6	269.6	279.0
37.5°	627.5	401.6	330.6	274.0	259.1	255.2	243.2	244.2	247.7	254.7	263.6
40°	599.7	377.8	313.7	257.6	242.7	239.3	226.4	227.4	231.3	238.8	248.2
42.5°	569.4	359.4	291.9	240.8	224.9	221.4	209.5	211.0	215.4	222.9	232.3
45°	533.2	347.5	267.6	224.9	207.0	203.5	192.6	195.6	200.6	208.0	217.9
47.5°	495.9	342.5	247.2	208.0	188.6	185.7	176.7	181.7	187.1	193.1	204.0
50°	460.2	336.1	226.4	192.1	172.8	169.8	163.8	170.3	175.7	181.2	191.6
52.5°	419.5	322.2	207.5	178.2	159.4	158.4	155.4	161.3	166.3	171.3	180.2
55°	377.3	299.8	191.1	165.8	147.9	148.9	147.4	152.4	156.4	160.8	168.8
57.5°	340.5	271.5	178.2	152.4	138.0	141.0	139.0	141.5	144.0	149.4	155.9
60°	303.3	237.8	163.8	136.5	128.1	131.6	126.1	125.6	126.6	128.1	140.0
62.5°	253.2	202.5	145.9	122.6	117.2	118.6	108.2	100.3	100.3	101.8	119.6
65°	203.5	169.8	126.1	106.7	102.3	101.3	86.4	75.5	74.5	78.9	94.3
67.5°	167.3	141.0	106.2	88.9	85.9	86.9	76.0	65.0	64.0	69.0	80.4
70°	138.5	113.7	84.9	68.5	71.5	76.0	65.0	54.6	53.1	57.6	68.5
72.5°	110.2	88.9	65.0	50.6	59.1	64.5	53.1	43.2	42.2	46.2	56.6
75°	80.9	63.5	44.2	36.7	45.7	50.6	38.7	30.8	29.3	32.8	43.2
77.5°	50.1	35.7	27.8	21.8	31.3	33.8	20.4	17.9	17.4	19.9	27.3
80°	23.3	15.4	13.4	7.4	11.4	13.4	8.4	9.4	9.9	11.9	16.9
82.5°	6.5	2.5	0.5	0.0	0.0	4.0	2.0	4.0	5.0	7.4	10.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	4.5	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	997.8	997.8	997.8	997.8	997.8	997.8	997.8	997.8
2.5°	925.3	945.2	977.0	1009.7	1042.0	1074.7	1106.5	1117.9
5°	839.4	885.1	948.2	1015.7	1085.2	1155.7	1220.2	1249.5
7.5°	743.6	809.2	904.0	1009.7	1120.4	1231.1	1332.9	1380.0
10°	641.4	724.3	832.5	975.5	1134.3	1287.2	1427.2	1488.3
12.5°	544.1	630.9	750.6	921.8	1123.4	1319.5	1487.8	1559.7
15°	462.7	539.6	668.7	858.3	1088.1	1321.5	1516.6	1595.5
17.5°	401.6	451.7	585.3	787.8	1042.0	1303.1	1526.5	1610.9
20°	371.3	385.2	477.1	697.5	998.8	1285.7	1536.4	1625.3
22.5°	353.4	356.9	390.2	580.8	947.2	1280.3	1553.8	1645.1
25°	339.1	340.0	349.0	460.2	868.2	1276.8	1580.6	1672.4
27.5°	324.7	324.7	329.6	370.8	761.0	1261.9	1615.3	1705.2
30°	310.3	310.3	313.7	328.1	635.4	1232.6	1657.0	1747.9
32.5°	295.4	295.4	298.3	308.8	507.3	1195.9	1695.3	1791.1
35°	280.5	279.5	283.5	294.4	403.6	1149.2	1733.5	1837.7
37.5°	264.6	264.1	268.1	280.5	348.5	1095.1	1762.3	1901.3
40°	247.7	247.7	252.2	265.6	332.6	1027.1	1808.0	1992.6
42.5°	232.3	231.3	236.3	252.7	320.7	962.1	1889.9	2125.7
45°	217.4	215.4	219.9	240.3	299.8	939.2	2042.8	2322.2
47.5°	203.5	198.6	202.5	225.4	281.0	1024.6	2293.0	2594.8
50°	192.1	182.7	186.2	210.5	266.6	1209.8	2617.6	2956.7
52.5°	180.2	167.8	169.8	192.1	253.7	1386.0	2969.6	3434.2
55°	167.8	153.9	154.9	173.7	235.3	1412.3	3313.1	4085.5
57.5°	153.9	141.0	141.0	156.9	221.9	1224.2	3577.2	4893.7
60°	138.5	130.1	127.6	143.5	233.8	863.8	3608.0	5414.9
62.5°	121.6	117.2	113.7	130.6	242.7	511.8	3360.3	5288.8
65°	102.3	101.3	98.8	143.5	204.5	302.3	2884.7	4902.1
67.5°	85.9	84.4	84.4	150.4	155.4	190.1	2253.7	4370.0
70°	74.0	68.5	68.5	113.7	94.3	131.6	1573.6	3795.6
72.5°	62.1	56.1	52.1	90.8	70.5	96.3	983.4	3250.5
75°	49.6	45.2	40.2	60.1	52.6	73.0	571.4	2693.1
77.5°	35.7	33.8	28.3	44.2	38.2	52.6	340.0	2078.0
80°	18.4	18.9	17.9	25.3	25.8	35.7	193.6	1422.2
82.5°	10.9	8.4	9.4	12.4	14.9	20.4	73.0	836.0
85°	6.9	4.5	4.5	6.0	7.4	7.9	22.3	339.1
87.5°	3.5	1.5	2.0	3.0	2.5	2.0	1.0	85.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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