

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: P949797

Luminaire Tested: **GALN-SB4B-940-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949797
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-SB4B-940-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA 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: 12481 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

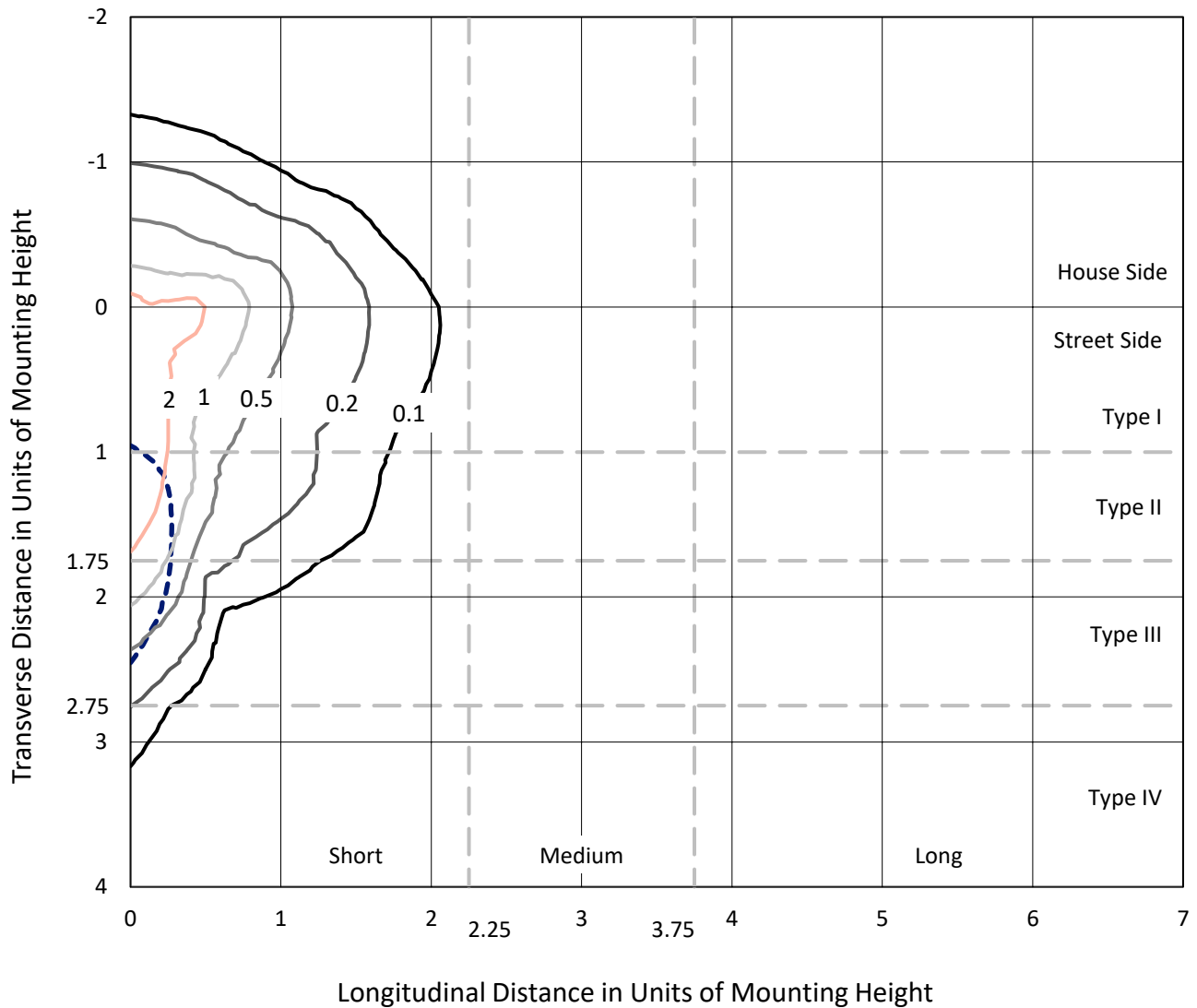
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

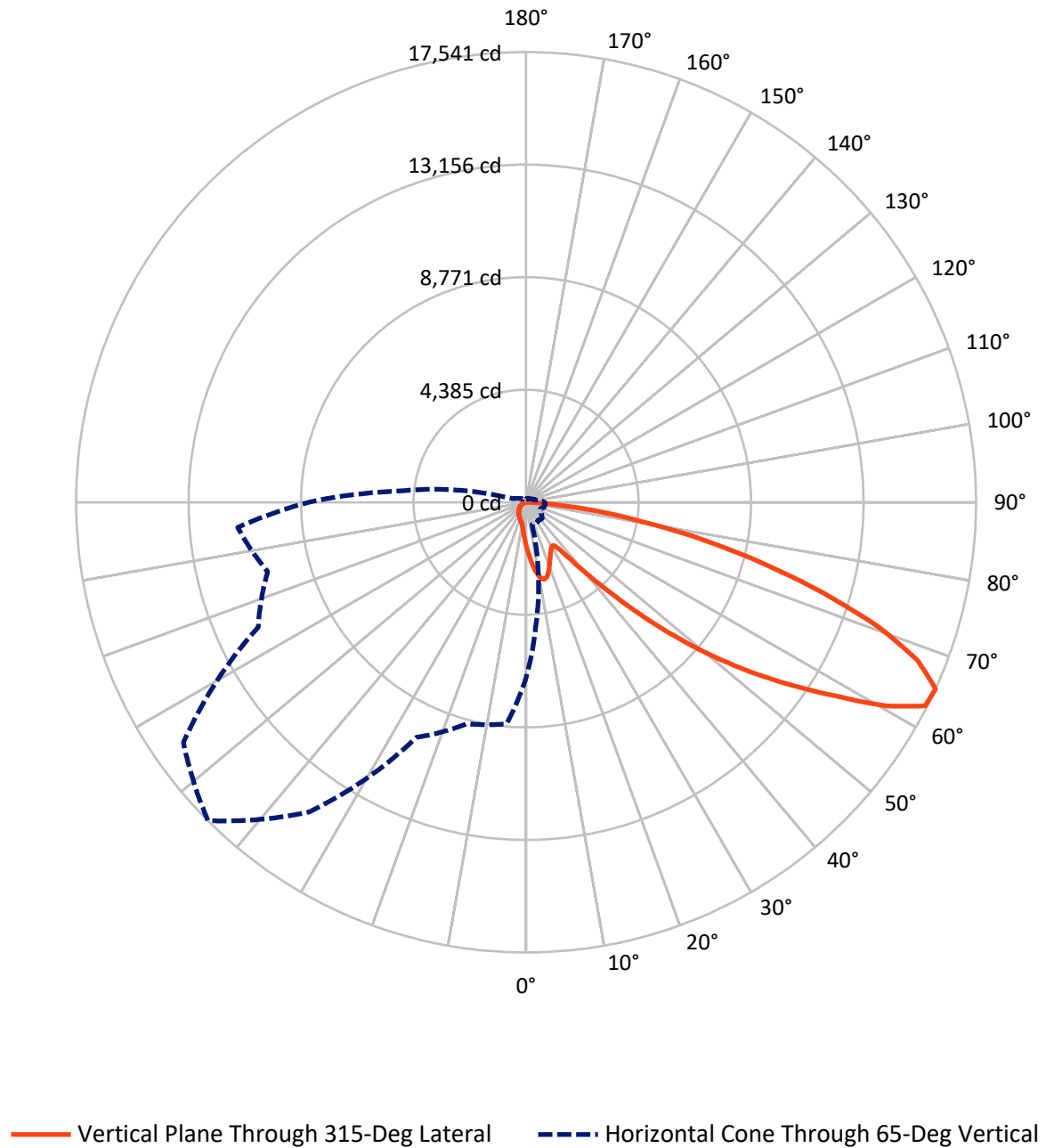
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1747.9	0.0	1747.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10733.1	0.0	10733.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	12481.0	0.0	12481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	1.4
10°-20°	510.1	4.1
20°-30°	751.4	6.0
30°-40°	965.4	7.7
40°-50°	1561.3	12.5
50°-60°	2737.9	21.9
60°-70°	3425.8	27.4
70°-80°	2001.9	16.0
80°-90°	357.2	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°	12481.0	100.0
0°-180°	12481.0	100.0

Coefficient of Utilization



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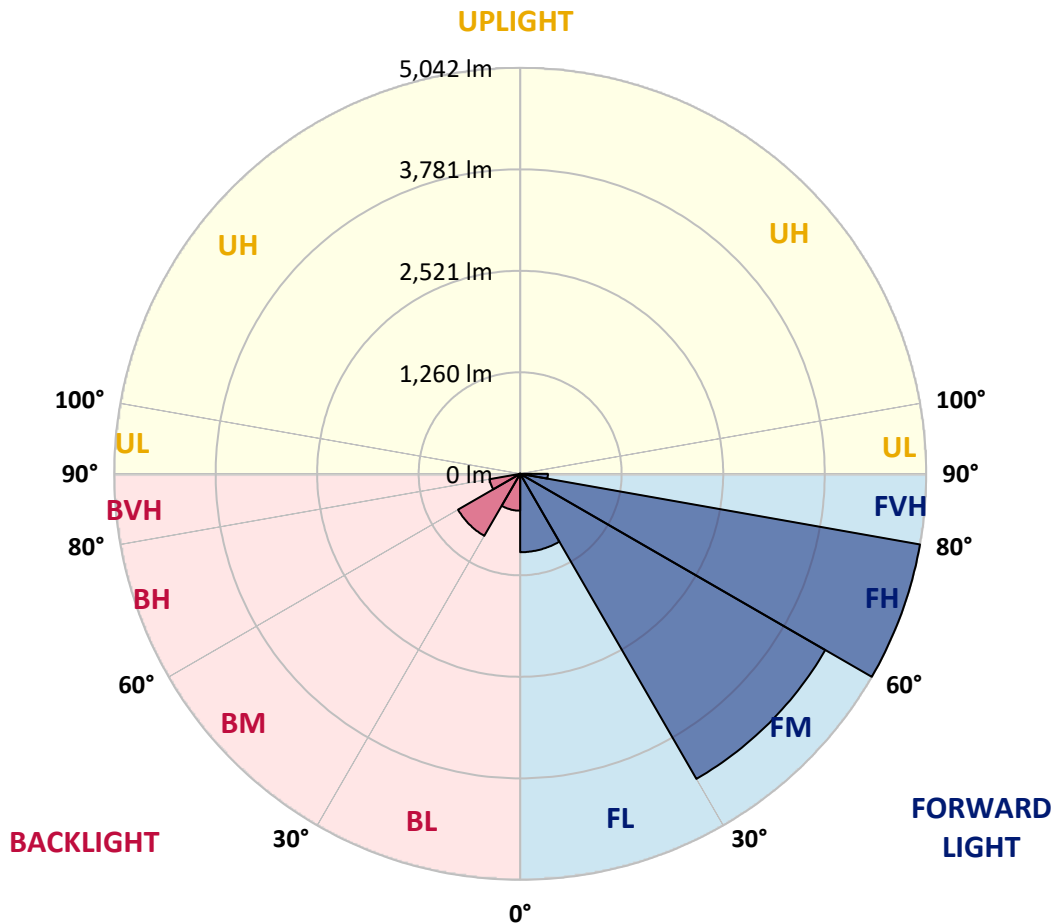
CATALOG NUMBER: GALN-SB4B-940-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.5	7.8			
FM (30°-60°)	4374.5	35.0			
FH (60°-80°)	5041.8	40.4			G3/7500
FVH (80°-90°)	343.4	2.8			G3/500
BL (0°-30°)	458.1	3.7	B1/500		
BM (30°-60°)	890.1	7.1	B1/1000		
BH (60°-80°)	385.9	3.1	B1/500		G1/500
BVH (80°-90°)	13.7	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°
0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1952.6	1919.1	1899.3	1850.3	1801.3	1761.8	1708.4	1673.2	1631.1	1590.6
5°	2176.2	2122.0	2056.7	1967.2	1885.6	1802.2	1721.3	1641.4	1557.1	1479.7
7.5°	2365.3	2287.1	2171.9	2053.2	1949.2	1848.6	1754.0	1648.3	1545.9	1424.7
10°	2509.8	2410.0	2258.7	2103.1	1983.6	1882.1	1790.1	1700.7	1597.5	1451.4
12.5°	2597.5	2490.9	2311.2	2128.9	1992.2	1878.7	1807.3	1767.8	1727.4	1582.1
15°	2662.0	2546.8	2348.1	2146.9	1972.4	1833.1	1780.7	1820.2	1866.6	1773.8
17.5°	2729.0	2607.8	2396.3	2154.7	1919.1	1744.6	1722.2	1824.5	1932.0	1927.7
20°	2792.7	2672.3	2438.4	2149.5	1833.1	1637.1	1656.9	1787.5	1912.2	1964.7
22.5°	2865.7	2738.5	2478.8	2129.8	1721.3	1536.5	1598.4	1729.1	1838.3	1900.2
25°	2955.2	2821.9	2535.6	2100.5	1601.0	1453.1	1539.1	1661.2	1749.7	1792.7
27.5°	3051.5	2921.6	2611.2	2085.0	1503.8	1393.8	1472.0	1580.3	1659.4	1689.5
30°	3171.0	3037.7	2700.7	2067.8	1440.2	1359.4	1402.4	1486.6	1564.0	1594.1
32.5°	3301.7	3166.7	2786.6	2026.6	1401.5	1333.6	1334.4	1387.7	1458.2	1494.4
35°	3465.0	3321.4	2878.6	1936.3	1370.5	1303.5	1268.2	1294.0	1352.5	1395.5
37.5°	3698.0	3524.4	2991.3	1807.3	1325.0	1257.0	1198.6	1204.6	1249.3	1296.6
40°	4019.6	3796.9	3123.7	1673.2	1259.6	1191.7	1122.1	1119.5	1152.1	1198.6
42.5°	4454.7	4157.2	3282.8	1545.1	1196.9	1112.6	1041.2	1036.9	1062.7	1103.1
45°	5029.0	4618.0	3477.9	1435.0	1147.8	1035.2	964.7	963.0	984.5	1019.7
47.5°	5764.2	5258.6	3673.1	1360.2	1122.1	974.2	901.9	905.4	924.3	956.1
50°	6716.0	6093.5	3732.4	1322.4	1122.1	941.5	846.1	863.2	878.7	902.8
52.5°	7856.9	6894.8	3536.4	1288.0	1128.9	945.8	798.8	835.7	846.9	867.5
55°	8914.5	7287.8	3040.3	1240.7	1130.7	972.4	758.4	813.4	834.0	841.8
57.5°	9528.4	7152.8	2458.2	1160.7	1123.8	990.5	732.6	785.9	825.4	830.6
60°	9411.5	6679.0	1809.9	1099.7	1073.0	983.6	724.8	743.7	806.5	814.2
62.5°	8510.4	5884.5	1256.2	1052.4	961.3	953.5	722.2	677.5	765.2	784.1
65°	6840.7	4632.7	887.3	906.2	842.6	888.2	708.5	608.7	715.4	741.2
67.5°	4962.8	3134.9	640.6	734.3	763.5	782.4	677.5	558.9	658.6	693.0
70°	3184.7	1693.0	449.7	484.9	643.1	664.6	624.2	514.2	601.0	640.6
72.5°	2263.9	1000.0	323.3	339.6	516.7	553.7	549.4	464.3	533.9	582.1
75°	1562.3	551.1	218.4	242.5	374.9	449.7	423.9	399.0	452.3	501.3
77.5°	979.3	246.8	130.7	168.5	245.9	353.4	290.6	308.7	352.5	398.1
80°	545.1	95.4	73.1	111.8	134.1	257.1	160.8	198.6	259.7	292.3
82.5°	118.7	12.0	32.7	48.1	52.4	149.6	85.1	115.2	163.4	160.8
85°	0.0	0.0	6.0	6.9	3.4	64.5	31.0	37.8	53.3	49.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1554.5	2.5°	1547.7	1505.5	1474.6	1459.1	1446.2	1458.2	1465.1	1465.1	1494.4	1511.5
1432.4	5°	1402.4	1326.7	1269.1	1230.4	1207.2	1214.9	1223.5	1233.0	1269.9	1294.9
1360.2	7.5°	1301.8	1185.7	1098.0	1043.8	1015.4	1019.7	1025.8	1033.5	1069.6	1094.5
1370.5	10°	1282.8	1116.0	992.2	920.9	886.5	880.4	877.0	874.4	895.9	914.8
1487.5	12.5°	1360.2	1119.5	946.7	859.8	817.7	799.6	779.0	762.7	766.1	778.1
1664.6	15°	1498.6	1163.3	932.0	828.0	775.5	745.5	721.4	701.6	697.3	701.6
1819.4	17.5°	1656.9	1222.7	930.3	800.5	735.1	704.2	684.4	666.4	660.3	661.2
1906.2	20°	1761.8	1269.9	925.2	769.5	696.4	668.9	651.7	633.7	627.7	629.4
1882.1	22.5°	1772.1	1294.9	917.4	735.1	657.8	634.5	617.3	601.0	600.1	600.1
1791.8	25°	1716.2	1294.9	901.1	704.2	620.8	600.1	584.7	564.9	568.3	570.1
1689.5	27.5°	1629.3	1263.9	870.1	679.3	589.0	567.5	552.0	533.9	538.2	540.8
1594.1	30°	1543.4	1224.4	833.2	650.9	558.9	533.9	522.8	507.3	509.0	512.4
1499.5	32.5°	1463.4	1182.2	789.3	627.7	528.8	503.8	495.3	478.1	480.6	484.1
1406.7	35°	1384.3	1135.8	737.7	600.1	501.3	476.3	469.5	449.7	451.4	456.6
1313.8	37.5°	1299.2	1086.8	695.6	572.6	474.6	448.8	441.9	421.3	423.0	429.0
1217.5	40°	1209.8	1038.7	654.3	543.4	446.2	420.4	414.4	392.1	393.8	400.7
1122.9	42.5°	1119.5	986.2	622.5	505.6	417.0	389.5	383.5	362.8	365.4	373.2
1040.4	45°	1036.1	923.4	601.9	463.4	389.5	358.5	352.5	333.6	338.8	347.4
970.7	47.5°	964.7	859.0	593.3	428.2	360.3	326.7	321.6	306.1	314.7	324.1
911.4	50°	903.7	797.0	582.1	392.1	332.7	299.2	294.1	283.7	294.9	304.4
871.0	52.5°	859.8	726.5	558.0	359.4	308.7	276.0	274.3	269.1	279.4	288.0
840.9	55°	822.0	653.5	519.3	331.0	287.2	256.2	257.9	255.4	264.0	270.8
822.8	57.5°	787.6	589.8	470.3	308.7	264.0	239.0	244.2	240.7	245.0	249.3
803.9	60°	746.3	525.3	411.8	283.7	236.4	221.8	227.8	218.4	217.5	219.3
769.5	62.5°	685.3	438.5	350.8	252.8	212.4	202.9	205.5	187.4	173.7	173.7
718.8	65°	600.1	352.5	294.1	218.4	184.9	177.1	175.4	149.6	130.7	129.0
663.8	67.5°	501.3	289.8	244.2	184.0	153.9	148.7	150.5	131.6	112.6	110.9
608.7	70°	408.4	239.9	196.9	147.0	118.7	123.8	131.6	112.6	94.6	92.0
544.3	72.5°	331.9	190.9	153.9	112.6	87.7	102.3	111.8	92.0	74.8	73.1
464.3	75°	256.2	140.1	110.1	76.5	63.6	79.1	87.7	67.1	53.3	50.7
359.4	77.5°	171.1	86.8	61.9	48.1	37.8	54.2	58.5	35.3	31.0	30.1
261.4	80°	104.0	40.4	26.7	23.2	12.9	19.8	23.2	14.6	16.3	17.2
139.3	82.5°	52.4	11.2	4.3	0.9	0.0	0.0	6.9	3.4	6.9	8.6
37.8	85°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3
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°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1518.4	2.5°	1566.6	1602.7	1637.1	1692.1	1748.9	1804.7	1861.5	1916.5	1936.3	1950.9
1311.2	5°	1386.0	1453.9	1533.0	1642.2	1759.2	1879.5	2001.6	2113.4	2164.1	2198.5
1116.0	7.5°	1199.4	1288.0	1401.5	1565.7	1748.9	1940.6	2132.3	2308.6	2390.3	2456.5
932.0	10°	1014.6	1110.9	1254.5	1441.9	1689.5	1964.7	2229.5	2472.0	2577.7	2661.1
799.6	12.5°	852.1	942.4	1092.8	1300.0	1596.7	1945.8	2285.4	2576.9	2701.5	2795.2
705.0	15°	737.7	801.3	934.6	1158.2	1486.6	1884.7	2288.8	2626.7	2763.4	2861.4
665.5	17.5°	674.1	695.6	782.4	1013.7	1364.5	1804.7	2257.0	2643.9	2790.1	2881.2
630.2	20°	639.7	643.1	667.2	826.3	1208.0	1729.9	2226.9	2661.1	2815.0	2891.5
605.3	22.5°	612.2	612.2	618.2	675.8	1006.0	1640.5	2217.5	2691.2	2849.4	2896.7
576.9	25°	587.3	587.3	589.0	604.4	797.0	1503.8	2211.4	2737.6	2896.7	2909.6
548.6	27.5°	561.5	562.3	562.3	570.9	642.3	1318.1	2185.6	2797.8	2953.4	2926.8
521.0	30°	535.7	537.4	537.4	543.4	568.3	1100.6	2134.9	2870.0	3027.4	2949.2
493.5	32.5°	509.9	511.6	511.6	516.7	534.8	878.7	2071.3	2936.3	3102.2	2958.6
466.9	35°	483.2	485.8	484.1	491.0	509.9	699.0	1990.5	3002.5	3183.0	2988.7
441.1	37.5°	456.6	458.3	457.4	464.3	485.8	603.6	1896.7	3052.3	3293.1	3055.8
413.6	40°	429.9	429.0	429.0	436.8	460.0	576.1	1778.9	3131.4	3451.3	3173.6
386.1	42.5°	402.4	402.4	400.7	409.3	437.6	555.4	1666.3	3273.3	3681.7	3361.0
360.3	45°	377.5	376.6	373.2	380.9	416.1	519.3	1626.8	3538.1	4022.2	3664.5
334.5	47.5°	353.4	352.5	343.9	350.8	390.4	486.7	1774.6	3971.5	4494.2	4110.8
313.8	50°	331.9	332.7	316.4	322.4	364.6	461.7	2095.4	4533.8	5121.0	4711.8
296.6	52.5°	312.1	312.1	290.6	294.1	332.7	439.4	2400.6	5143.4	5948.2	5550.1
278.6	55°	292.3	290.6	266.5	268.3	300.9	407.6	2446.2	5738.4	7076.2	6811.4
258.8	57.5°	270.0	266.5	244.2	244.2	271.7	384.3	2120.3	6195.8	8476.0	8665.2
221.8	60°	242.5	239.9	225.3	221.0	248.5	405.0	1496.1	6249.1	9378.8	11130.2
176.3	62.5°	207.2	210.7	202.9	196.9	226.1	420.4	886.5	5820.1	9160.4	11914.4
136.7	65°	163.4	177.1	175.4	171.1	248.5	354.2	523.6	4996.4	8490.6	11281.6
119.5	67.5°	139.3	148.7	146.2	146.2	260.5	269.1	329.3	3903.5	7568.9	10531.0
99.7	70°	118.7	128.1	118.7	118.7	196.9	163.4	227.8	2725.6	6574.1	9700.4
80.0	72.5°	98.0	107.5	97.2	90.3	157.3	122.1	166.8	1703.3	5630.0	8835.4
56.7	75°	74.8	86.0	78.2	69.6	104.0	91.1	126.4	989.6	4664.5	7559.5
34.4	77.5°	47.3	61.9	58.5	49.0	76.5	66.2	91.1	589.0	3599.2	5906.9
20.6	80°	29.2	31.8	32.7	31.0	43.9	44.7	61.9	335.3	2463.4	4116.8
12.9	82.5°	18.9	18.9	14.6	16.3	21.5	25.8	35.3	126.4	1447.9	2506.3
7.7	85°	13.8	12.0	7.7	7.7	10.3	12.9	13.8	38.7	587.3	989.6
3.4	87.5°	6.9	6.0	2.6	3.4	5.2	4.3	3.4	1.7	147.9	316.4
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°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1983.6	2.5°	2000.8	2027.4	2029.2	2029.2	2005.9	2005.1	1957.8	1952.6
2275.9	5°	2355.9	2373.1	2377.4	2368.8	2322.3	2288.0	2196.0	2176.2
2574.3	7.5°	2680.9	2715.3	2715.3	2694.6	2619.0	2548.5	2415.2	2365.3
2821.0	10°	2940.6	2980.1	2971.5	2929.4	2833.9	2736.8	2575.1	2509.8
2970.6	12.5°	3066.9	3107.4	3085.0	3036.9	2944.0	2841.7	2671.4	2597.5
3013.6	15°	3064.4	3053.2	3030.0	3024.0	2979.2	2901.9	2742.8	2662.0
2987.0	17.5°	2955.2	2860.6	2842.5	2902.7	2959.5	2940.6	2804.7	2729.0
2923.4	20°	2782.3	2617.3	2600.9	2716.1	2877.8	2960.3	2862.3	2792.7
2831.4	22.5°	2600.1	2422.1	2384.3	2511.5	2754.8	2966.3	2935.4	2865.7
2729.9	25°	2427.2	2248.4	2210.6	2329.2	2618.1	2956.0	3014.5	2955.2
2632.7	27.5°	2282.8	2110.0	2074.7	2193.4	2486.6	2926.8	3093.6	3051.5
2536.4	30°	2171.0	2011.1	1985.3	2099.7	2373.1	2890.7	3194.2	3171.0
2447.0	32.5°	2105.7	1988.7	1998.2	2091.9	2312.0	2851.1	3290.5	3301.7
2403.2	35°	2170.2	2175.3	2257.9	2296.6	2368.8	2845.1	3421.2	3465.0
2455.6	37.5°	2490.9	2669.7	2840.8	2809.0	2646.5	2914.8	3616.4	3698.0
2684.3	40°	3036.9	3404.0	3681.7	3560.5	3151.2	3128.0	3897.5	4019.6
3090.2	42.5°	3704.1	4326.6	4784.0	4459.0	3802.1	3501.1	4299.1	4454.7
3581.1	45°	4408.2	5464.1	6184.6	5508.8	4495.9	4023.9	4906.9	5029.0
4041.1	47.5°	5150.3	6846.7	7778.7	6673.0	5139.1	4618.9	5735.8	5764.2
4477.0	50°	5961.9	8362.5	9403.7	7836.3	5759.9	5300.7	6748.7	6716.0
4985.2	52.5°	6734.9	9921.4	10994.4	9004.8	6305.0	6146.8	7924.0	7856.9
5679.9	55°	7472.6	11479.3	12594.5	10127.7	6819.2	7264.5	9320.3	8914.5
6681.6	57.5°	8328.1	12880.0	14243.6	11255.8	7538.0	8715.9	10881.8	9528.4
8599.8	60°	9592.9	14471.5	16108.6	12801.7	8905.1	10241.2	11441.5	9411.5
10897.2	62.5°	11207.6	15934.9	17464.5	14316.7	10278.2	10528.4	10616.9	8510.4
10428.6	65°	11521.5	16305.4	17541.0	14721.7	10101.1	8930.9	8667.7	6840.7
9315.2	67.5°	10689.2	15635.7	16471.4	13967.6	8935.2	6901.7	6504.5	4962.8
8584.3	70°	9755.4	14358.8	14607.3	12685.6	7858.7	5076.3	4392.8	3184.7
8083.9	72.5°	8798.4	12655.6	12141.4	11016.8	6906.9	3696.3	3168.4	2263.9
7371.2	75°	7661.8	10415.7	9563.7	9153.5	5718.6	2901.0	2292.3	1562.3
6340.2	77.5°	6135.6	7331.6	7103.8	7095.2	4297.3	2119.4	1529.6	979.3
4953.4	80°	4328.3	4758.2	4642.1	5343.7	2882.9	1537.3	920.9	545.1
3447.8	82.5°	2095.4	2631.0	2700.7	3182.2	1402.4	904.5	212.4	118.7
1348.2	85°	820.3	1269.1	1070.5	1208.0	393.8	251.9	5.2	0.0
221.8	87.5°	92.0	147.0	135.0	106.6	48.1	10.3	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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