

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: P949818

Luminaire Tested: **GALN-SB4B-950-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949818
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-950-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 11982 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

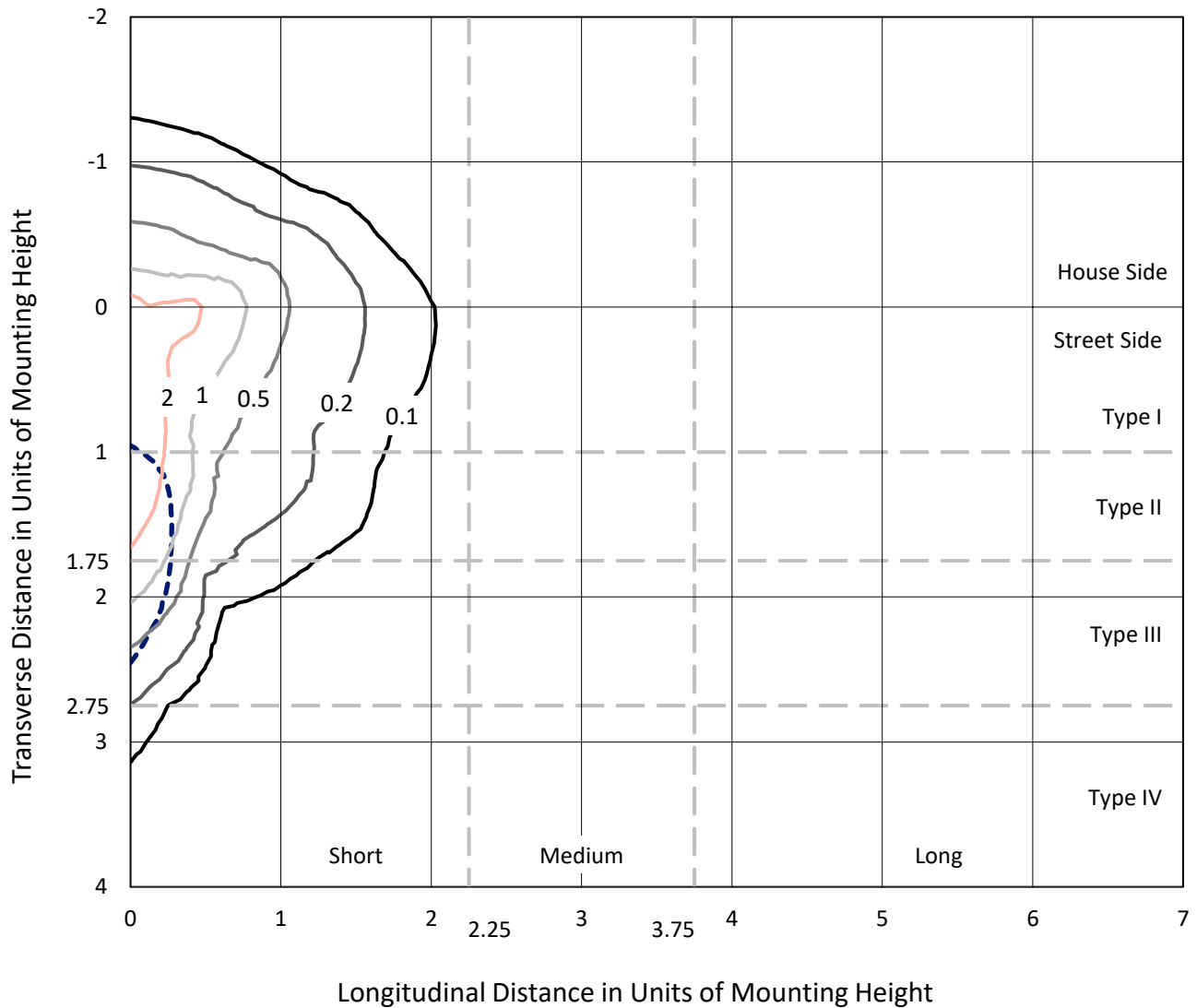
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

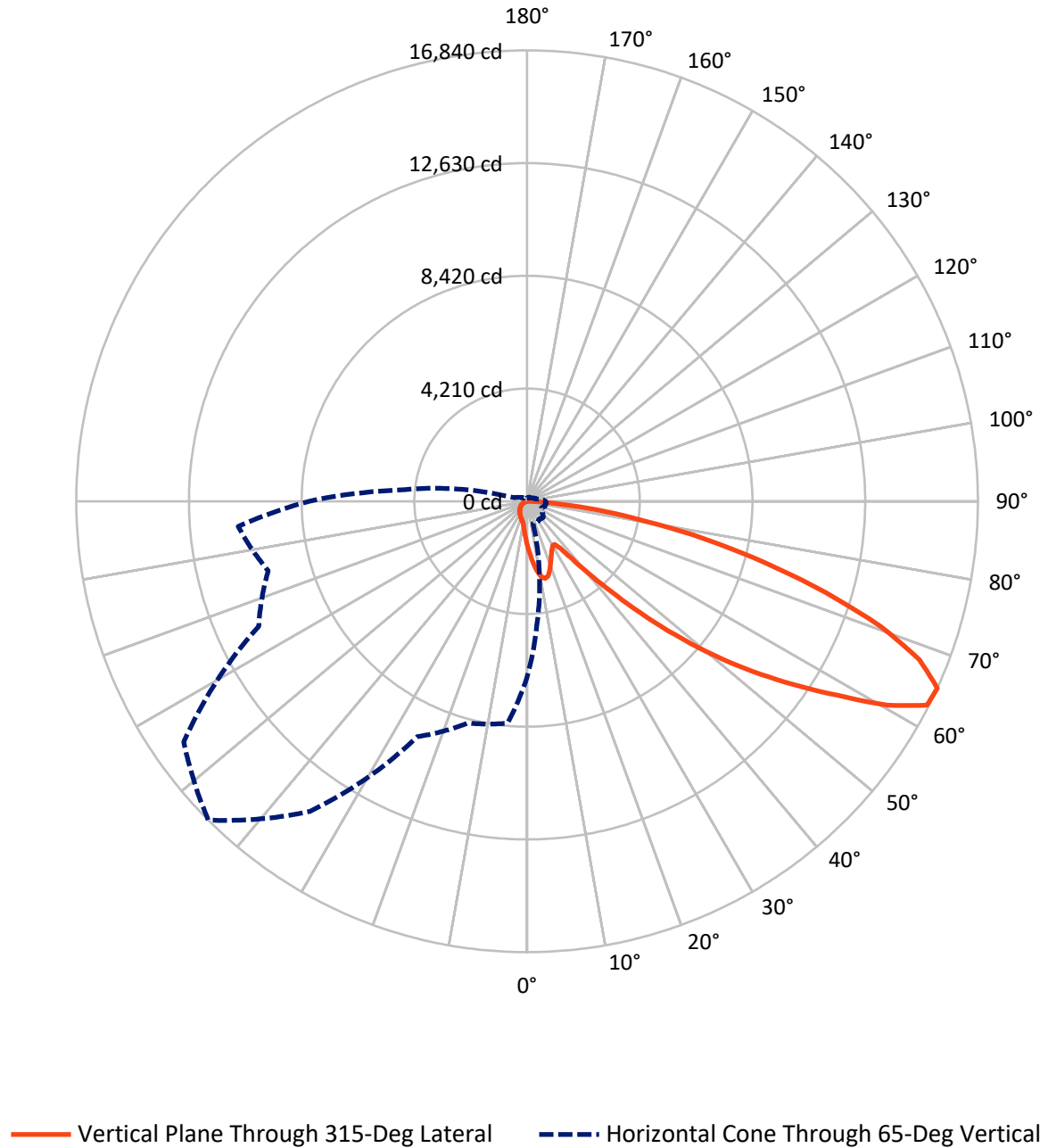
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1678.0	0.0	1678.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10304.0	0.0	10304.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	11982.0	0.0	11982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	1.4
10°-20°	489.7	4.1
20°-30°	721.4	6.0
30°-40°	926.8	7.7
40°-50°	1498.9	12.5
50°-60°	2628.4	21.9
60°-70°	3288.8	27.4
70°-80°	1921.8	16.0
80°-90°	342.9	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°	11982.0	100.0
0°-180°	11982.0	100.0

Coefficient of Utilization



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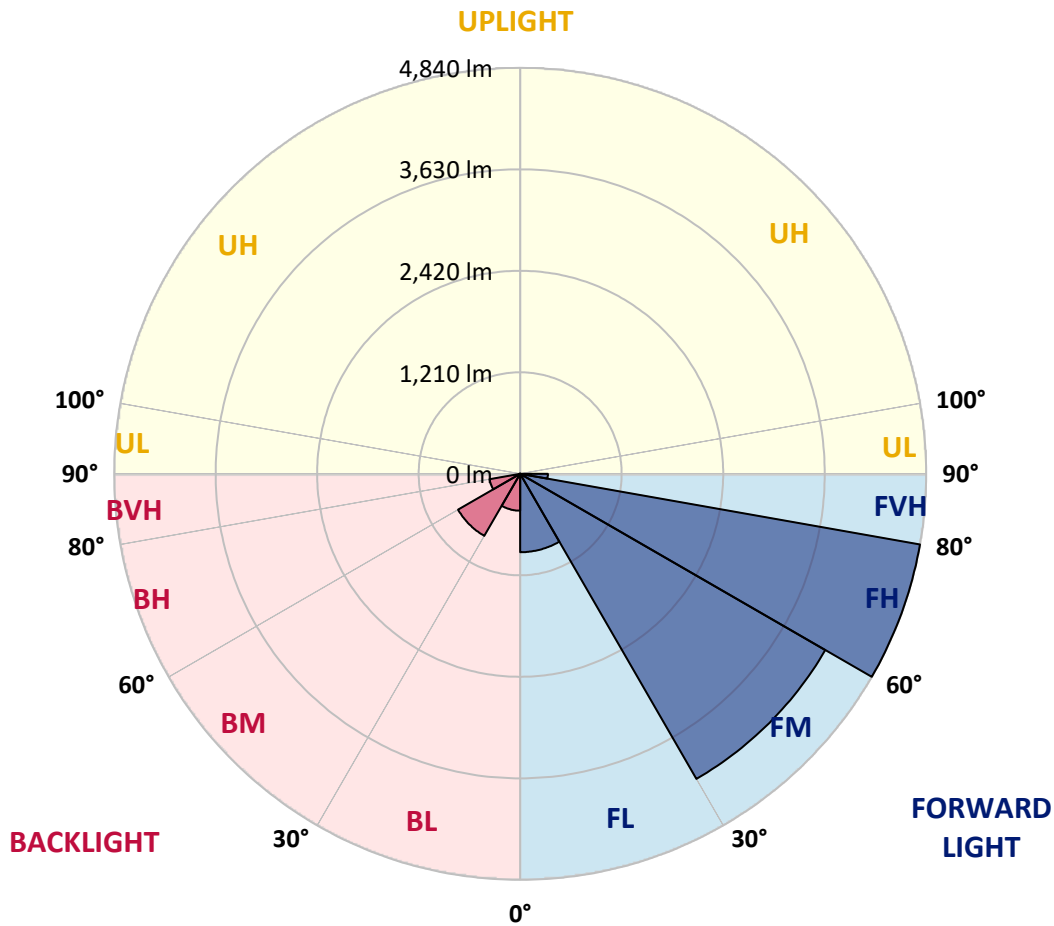
CATALOG NUMBER: GALN-SB4B-950-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.6	7.8			
FM (30°-60°)	4199.6	35.0			
FH (60°-80°)	4840.2	40.4			G2/5000
FVH (80°-90°)	329.7	2.8			G3/500
BL (0°-30°)	439.8	3.7	B1/500		
BM (30°-60°)	854.5	7.1	B1/1000		
BH (60°-80°)	370.5	3.1	B1/500		G1/500
BVH (80°-90°)	13.2	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°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
2.5°	1874.6	1842.4	1823.4	1776.3	1729.3	1691.3	1640.1	1606.3	1565.8	1527.1
5°	2089.2	2037.2	1974.4	1888.6	1810.2	1730.1	1652.5	1575.8	1494.9	1420.6
7.5°	2270.8	2195.7	2085.0	1971.1	1871.3	1774.7	1683.9	1582.4	1484.1	1367.7
10°	2409.4	2313.7	2168.4	2019.0	1904.3	1806.9	1718.6	1632.7	1533.7	1393.3
12.5°	2493.6	2391.3	2218.8	2043.8	1912.5	1803.6	1735.1	1697.1	1658.3	1518.8
15°	2555.5	2444.9	2254.3	2061.1	1893.5	1759.8	1709.5	1747.4	1792.0	1702.9
17.5°	2619.9	2503.5	2300.5	2068.5	1842.4	1674.8	1653.3	1751.6	1854.8	1850.6
20°	2681.0	2565.5	2340.9	2063.6	1759.8	1571.6	1590.6	1716.1	1835.8	1886.1
22.5°	2751.2	2629.0	2379.7	2044.6	1652.5	1475.1	1534.5	1659.9	1764.8	1824.2
25°	2837.0	2709.1	2434.2	2016.5	1537.0	1395.0	1477.5	1594.7	1679.8	1721.0
27.5°	2929.5	2804.8	2506.8	2001.7	1443.7	1338.0	1413.1	1517.1	1593.1	1622.0
30°	3044.2	2916.3	2592.7	1985.2	1382.6	1305.0	1346.3	1427.2	1501.5	1530.4
32.5°	3169.7	3040.1	2675.2	1945.5	1345.5	1280.2	1281.1	1332.3	1399.9	1434.6
35°	3326.5	3188.7	2763.6	1858.9	1315.7	1251.4	1217.5	1242.3	1298.4	1339.7
37.5°	3550.2	3383.5	2871.7	1735.1	1272.0	1206.8	1150.7	1156.4	1199.4	1244.8
40°	3858.9	3645.1	2998.8	1606.3	1209.3	1144.1	1077.2	1074.7	1106.1	1150.7
42.5°	4276.6	3991.0	3151.5	1483.3	1149.0	1068.1	999.6	995.5	1020.2	1059.0
45°	4828.0	4433.4	3338.9	1377.7	1102.0	993.8	926.1	924.5	945.1	979.0
47.5°	5533.7	5048.4	3526.3	1305.8	1077.2	935.2	865.9	869.2	887.3	917.9
50°	6447.5	5849.9	3583.2	1269.5	1077.2	903.9	812.2	828.7	843.6	866.7
52.5°	7542.8	6619.2	3395.0	1236.5	1083.8	908.0	766.8	802.3	813.1	832.9
55°	8558.1	6996.4	2918.7	1191.1	1085.4	933.6	728.0	780.9	800.7	808.1
57.5°	9147.5	6866.8	2359.9	1114.3	1078.8	950.9	703.3	754.4	792.4	797.4
60°	9035.2	6412.0	1737.5	1055.7	1030.1	944.3	695.8	714.0	774.3	781.7
62.5°	8170.2	5649.3	1206.0	1010.3	922.8	915.4	693.4	650.4	734.6	752.8
65°	6567.2	4447.4	851.8	870.0	808.9	852.7	680.2	584.4	686.8	711.5
67.5°	4764.4	3009.5	614.9	704.9	733.0	751.1	650.4	536.5	632.3	665.3
70°	3057.4	1625.3	431.7	465.5	617.4	638.1	599.3	493.6	577.0	614.9
72.5°	2173.4	960.0	310.4	326.0	496.1	531.6	527.5	445.7	512.6	558.8
75°	1499.8	529.1	209.7	232.8	359.9	431.7	406.9	383.0	434.2	481.2
77.5°	940.2	236.9	125.5	161.8	236.1	339.3	279.0	296.3	338.4	382.2
80°	523.3	91.6	70.2	107.3	128.8	246.8	154.4	190.7	249.3	280.6
82.5°	113.9	11.6	31.4	46.2	50.4	143.6	81.7	110.6	156.8	154.4
85°	0.0	0.0	5.8	6.6	3.3	61.9	29.7	36.3	51.2	47.9
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°
1659.1	0°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
1492.4	2.5°	1485.8	1445.3	1415.6	1400.8	1388.4	1399.9	1406.5	1406.5	1434.6	1451.1
1375.2	5°	1346.3	1273.6	1218.3	1181.2	1158.9	1166.3	1174.6	1183.7	1219.2	1243.1
1305.8	7.5°	1249.7	1138.3	1054.1	1002.1	974.8	979.0	984.7	992.2	1026.8	1050.8
1315.7	10°	1231.5	1071.4	952.6	884.0	851.0	845.2	841.9	839.5	860.1	878.3
1428.0	12.5°	1305.8	1074.7	908.8	825.4	785.0	767.7	747.8	732.2	735.5	747.0
1598.0	15°	1438.7	1116.8	894.8	794.9	744.5	715.7	692.5	673.6	669.4	673.6
1746.6	17.5°	1590.6	1173.8	893.1	768.5	705.7	676.0	657.0	639.7	633.9	634.8
1830.0	20°	1691.3	1219.2	888.2	738.8	668.6	642.2	625.7	608.3	602.6	604.2
1806.9	22.5°	1701.2	1243.1	880.7	705.7	631.5	609.2	592.7	577.0	576.2	576.2
1720.2	25°	1647.6	1243.1	865.1	676.0	596.0	576.2	561.3	542.3	545.6	547.3
1622.0	27.5°	1564.2	1213.4	835.3	652.1	565.4	544.8	529.9	512.6	516.7	519.2
1530.4	30°	1481.7	1175.4	799.8	624.9	536.5	512.6	501.9	487.0	488.7	492.0
1439.6	32.5°	1404.9	1135.0	757.7	602.6	507.6	483.7	475.5	458.9	461.4	464.7
1350.4	35°	1328.9	1090.4	708.2	576.2	481.2	457.3	450.7	431.7	433.4	438.3
1261.3	37.5°	1247.2	1043.3	667.8	549.7	455.6	430.9	424.3	404.5	406.1	411.9
1168.8	40°	1161.4	997.1	628.2	521.7	428.4	403.6	397.9	376.4	378.0	384.7
1078.0	42.5°	1074.7	946.8	597.6	485.4	400.3	373.9	368.1	348.3	350.8	358.2
998.8	45°	994.6	886.5	577.8	444.9	373.9	344.2	338.4	320.3	325.2	333.5
931.9	47.5°	926.1	824.6	569.5	411.1	345.9	313.7	308.7	293.9	302.1	311.2
875.0	50°	867.5	765.2	558.8	376.4	319.4	287.3	282.3	272.4	283.1	292.2
836.2	52.5°	825.4	697.5	535.7	345.0	296.3	265.0	263.3	258.4	268.3	276.5
807.3	55°	789.1	627.3	498.6	317.8	275.7	246.0	247.6	245.2	253.4	260.0
789.9	57.5°	756.1	566.2	451.5	296.3	253.4	229.5	234.4	231.1	235.2	239.4
771.8	60°	716.5	504.3	395.4	272.4	227.0	213.0	218.7	209.7	208.8	210.5
738.8	62.5°	657.9	421.0	336.8	242.7	203.9	194.8	197.3	179.9	166.7	166.7
690.1	65°	576.2	338.4	282.3	209.7	177.5	170.0	168.4	143.6	125.5	123.8
637.2	67.5°	481.2	278.2	234.4	176.6	147.8	142.8	144.5	126.3	108.1	106.5
584.4	70°	392.1	230.3	189.0	141.1	113.9	118.9	126.3	108.1	90.8	88.3
522.5	72.5°	318.6	183.2	147.8	108.1	84.2	98.2	107.3	88.3	71.8	70.2
445.7	75°	246.0	134.5	105.7	73.5	61.1	75.9	84.2	64.4	51.2	48.7
345.0	77.5°	164.3	83.4	59.4	46.2	36.3	52.0	56.1	33.8	29.7	28.9
250.9	80°	99.9	38.8	25.6	22.3	12.4	19.0	22.3	14.0	15.7	16.5
133.7	82.5°	50.4	10.7	4.1	0.8	0.0	0.0	6.6	3.3	6.6	8.3
36.3	85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.1
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°
1659.1	0°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
1457.7	2.5°	1503.9	1538.6	1571.6	1624.5	1678.9	1732.6	1787.1	1839.9	1858.9	1872.9
1258.8	5°	1330.6	1395.8	1471.7	1576.6	1688.8	1804.4	1921.6	2028.9	2077.6	2110.6
1071.4	7.5°	1151.5	1236.5	1345.5	1503.1	1678.9	1863.0	2047.1	2216.3	2294.7	2358.3
894.8	10°	974.0	1066.5	1204.3	1384.3	1622.0	1886.1	2140.4	2373.1	2474.7	2554.7
767.7	12.5°	818.0	904.7	1049.1	1248.1	1532.8	1868.0	2194.0	2473.8	2593.5	2683.5
676.9	15°	708.2	769.3	897.2	1111.9	1427.2	1809.4	2197.3	2521.7	2652.9	2747.0
638.9	17.5°	647.1	667.8	751.1	973.2	1310.0	1732.6	2166.8	2538.2	2678.5	2766.0
605.0	20°	614.1	617.4	640.5	793.2	1159.7	1660.8	2137.9	2554.7	2702.5	2775.9
581.1	22.5°	587.7	587.7	593.5	648.8	965.8	1574.9	2128.8	2583.6	2735.5	2780.9
553.9	25°	563.8	563.8	565.4	580.3	765.2	1443.7	2123.0	2628.2	2780.9	2793.3
526.6	27.5°	539.0	539.8	539.8	548.1	616.6	1265.4	2098.3	2686.0	2835.4	2809.8
500.2	30°	514.2	515.9	515.9	521.7	545.6	1056.6	2049.6	2755.3	2906.4	2831.2
473.8	32.5°	489.5	491.1	491.1	496.1	513.4	843.6	1988.5	2818.9	2978.2	2840.3
448.2	35°	463.9	466.4	464.7	471.3	489.5	671.1	1910.9	2882.4	3055.8	2869.2
423.4	37.5°	438.3	440.0	439.1	445.7	466.4	579.5	1820.9	2930.3	3161.4	2933.6
397.0	40°	412.7	411.9	411.9	419.3	441.6	553.0	1707.8	3006.2	3313.3	3046.7
370.6	42.5°	386.3	386.3	384.7	392.9	420.1	533.2	1599.7	3142.4	3534.5	3226.6
345.9	45°	362.4	361.5	358.2	365.7	399.5	498.6	1561.7	3396.7	3861.4	3518.0
321.1	47.5°	339.3	338.4	330.2	336.8	374.7	467.2	1703.7	3812.7	4314.5	3946.4
301.3	50°	318.6	319.4	303.8	309.5	350.0	443.3	2011.6	4352.5	4916.3	4523.4
284.8	52.5°	299.6	299.6	279.0	282.3	319.4	421.8	2304.6	4937.7	5710.4	5328.2
267.4	55°	280.6	279.0	255.9	257.5	288.9	391.3	2348.4	5509.0	6793.3	6539.1
248.5	57.5°	259.2	255.9	234.4	234.4	260.8	369.0	2035.5	5948.1	8137.1	8318.7
213.0	60°	232.8	230.3	216.3	212.1	238.6	388.8	1436.3	5999.3	9003.8	10685.3
169.2	62.5°	198.9	202.2	194.8	189.0	217.1	403.6	851.0	5587.4	8794.2	11438.0
131.2	65°	156.8	170.0	168.4	164.3	238.6	340.1	502.7	4796.6	8151.2	10830.5
114.7	67.5°	133.7	142.8	140.3	140.3	250.1	258.4	316.1	3747.5	7266.3	10109.9
95.8	70°	113.9	123.0	113.9	113.9	189.0	156.8	218.7	2616.6	6311.3	9312.6
76.8	72.5°	94.1	103.2	93.3	86.7	151.1	117.2	160.1	1635.2	5404.9	8482.2
54.5	75°	71.8	82.5	75.1	66.9	99.9	87.5	121.3	950.1	4478.0	7257.2
33.0	77.5°	45.4	59.4	56.1	47.0	73.5	63.6	87.5	565.4	3455.3	5670.7
19.8	80°	28.1	30.5	31.4	29.7	42.1	42.9	59.4	321.9	2364.9	3952.2
12.4	82.5°	18.2	18.2	14.0	15.7	20.6	24.8	33.8	121.3	1390.0	2406.1
7.4	85°	13.2	11.6	7.4	7.4	9.9	12.4	13.2	37.1	563.8	950.1
3.3	87.5°	6.6	5.8	2.5	3.3	5.0	4.1	3.3	1.7	142.0	303.8
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°
1659.1	0°	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1	1659.1
1904.3	2.5°	1920.8	1946.4	1948.0	1948.0	1925.7	1924.9	1879.5	1874.6
2184.9	5°	2261.7	2278.2	2282.3	2274.1	2229.5	2196.5	2108.2	2089.2
2471.4	7.5°	2573.7	2606.7	2606.7	2586.9	2514.3	2446.6	2318.6	2270.8
2708.3	10°	2823.0	2861.0	2852.7	2812.3	2720.6	2627.4	2472.2	2409.4
2851.9	12.5°	2944.3	2983.1	2961.7	2915.4	2826.3	2728.1	2564.6	2493.6
2893.1	15°	2941.8	2931.1	2908.8	2903.1	2860.1	2785.8	2633.1	2555.5
2867.6	17.5°	2837.0	2746.2	2728.9	2786.7	2841.1	2823.0	2692.6	2619.9
2806.5	20°	2671.1	2512.6	2496.9	2607.5	2762.7	2842.0	2747.9	2681.0
2718.2	22.5°	2496.1	2325.2	2288.9	2411.1	2644.7	2847.7	2818.0	2751.2
2620.8	25°	2330.2	2158.5	2122.2	2236.1	2513.4	2837.8	2894.0	2837.0
2527.5	27.5°	2191.5	2025.6	1991.8	2105.7	2387.2	2809.8	2969.9	2929.5
2435.0	30°	2084.2	1930.7	1905.9	2015.7	2278.2	2775.1	3066.5	3044.2
2349.2	32.5°	2021.5	1909.2	1918.3	2008.3	2219.6	2737.1	3158.9	3169.7
2307.1	35°	2083.4	2088.3	2167.6	2204.7	2274.1	2731.4	3284.4	3326.5
2357.4	37.5°	2391.3	2563.0	2727.2	2696.7	2540.7	2798.2	3471.8	3550.2
2577.0	40°	2915.4	3267.9	3534.5	3418.1	3025.2	3002.9	3741.7	3858.9
2966.6	42.5°	3556.0	4153.6	4592.7	4280.7	3650.1	3361.2	4127.2	4276.6
3437.9	45°	4232.0	5245.6	5937.4	5288.6	4316.2	3863.0	4710.8	4828.0
3879.5	47.5°	4944.4	6572.9	7467.7	6406.2	4933.6	4434.2	5506.5	5533.7
4298.0	50°	5723.6	8028.2	9027.8	7523.0	5529.6	5088.8	6478.8	6447.5
4785.9	52.5°	6465.6	9524.7	10554.8	8644.8	6052.9	5901.0	7607.2	7542.8
5452.8	55°	7173.9	11020.4	12091.0	9722.8	6546.5	6974.1	8947.7	8558.1
6414.5	57.5°	7995.2	12365.0	13674.2	10805.8	7236.6	8367.4	10446.7	9147.5
8256.0	60°	9209.4	13892.9	15464.5	12289.9	8549.0	9831.8	10984.1	9035.2
10461.6	62.5°	10759.5	15297.8	16766.2	13744.3	9867.2	10107.4	10192.5	8170.2
10011.7	65°	11060.8	15653.5	16839.7	14133.1	9697.2	8573.8	8321.2	6567.2
8942.8	67.5°	10261.8	15010.5	15812.9	13409.2	8577.9	6625.8	6244.4	4764.4
8241.1	70°	9365.4	13784.8	14023.3	12178.5	7544.5	4873.4	4217.1	3057.4
7760.7	72.5°	8446.7	12149.6	11656.0	10576.3	6630.7	3548.5	3041.7	2173.4
7076.5	75°	7355.4	9999.3	9181.3	8787.6	5490.0	2785.0	2200.6	1499.8
6086.8	77.5°	5890.3	7038.5	6819.7	6811.5	4125.5	2034.7	1468.4	940.2
4755.3	80°	4155.2	4568.0	4456.5	5130.1	2767.7	1475.9	884.0	523.3
3310.0	82.5°	2011.6	2525.8	2592.7	3054.9	1346.3	868.4	203.9	113.9
1294.3	85°	787.5	1218.3	1027.7	1159.7	378.0	241.9	5.0	0.0
213.0	87.5°	88.3	141.1	129.6	102.4	46.2	9.9	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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