

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: P947508

Luminaire Tested: **GALN-SB2D-830-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947508  
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-SB2D-830-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

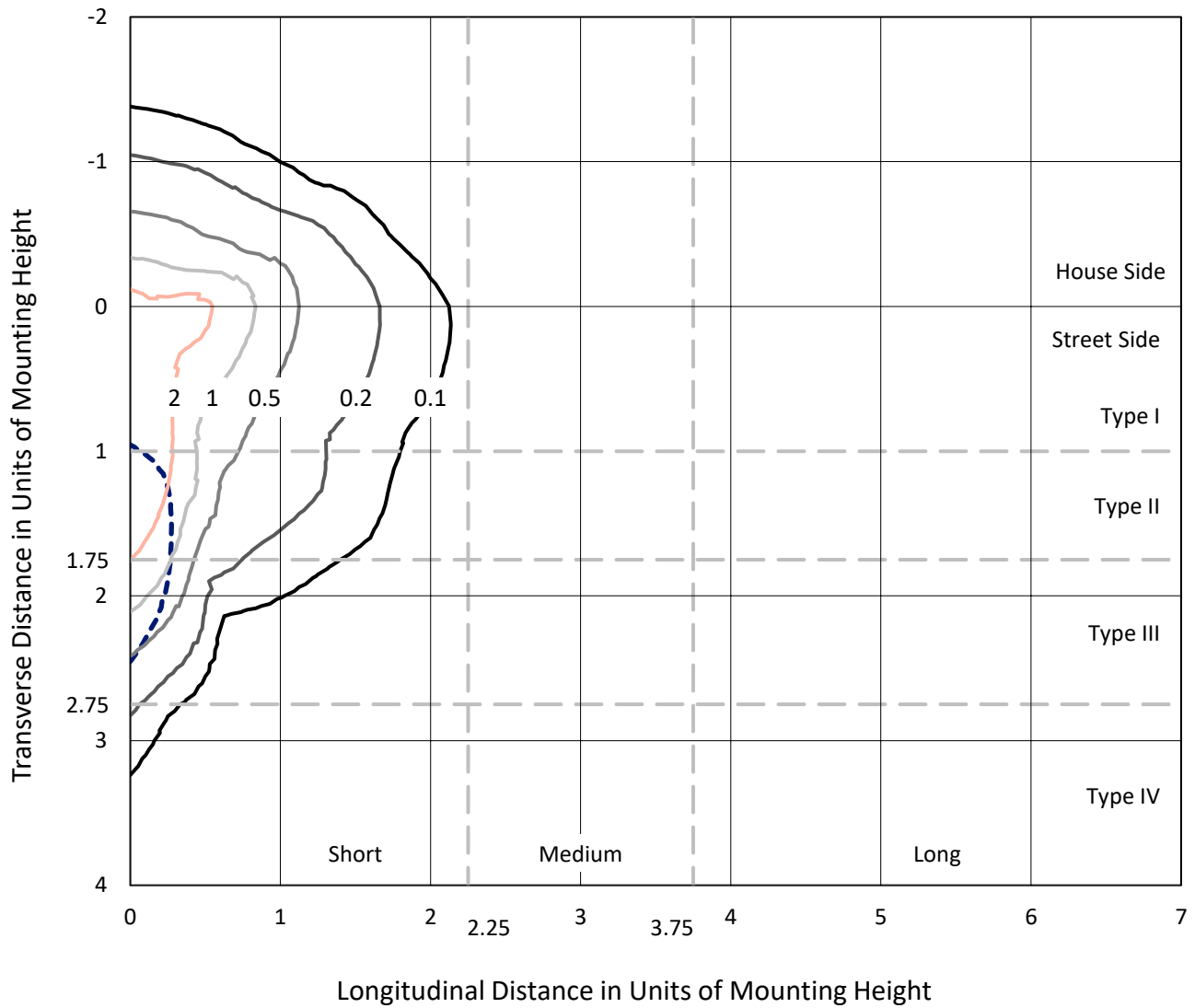
Lumens per Lamp: N/A  
Luminaire Lumens: 13956 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

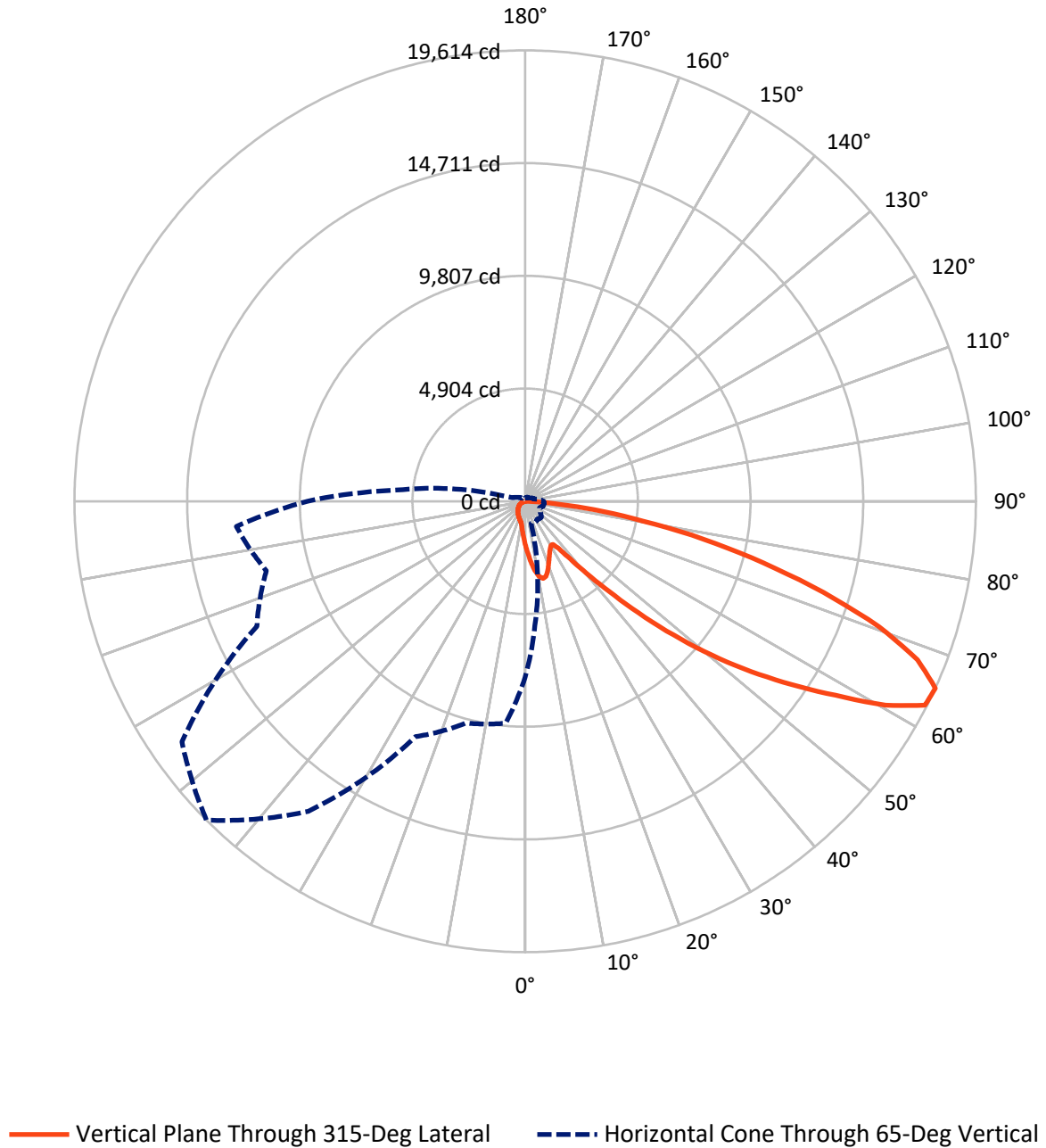
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1954.4	0.0	1954.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	12001.6	0.0	12001.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13956.0	0.0	13956.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.3	1.4
10°-20°	570.3	4.1
20°-30°	840.2	6.0
30°-40°	1079.5	7.7
40°-50°	1745.8	12.5
50°-60°	3061.4	21.9
60°-70°	3830.7	27.4
70°-80°	2238.5	16.0
80°-90°	399.4	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°	13956.0	100.0
0°-180°	13956.0	100.0

**Coefficient of Utilization**



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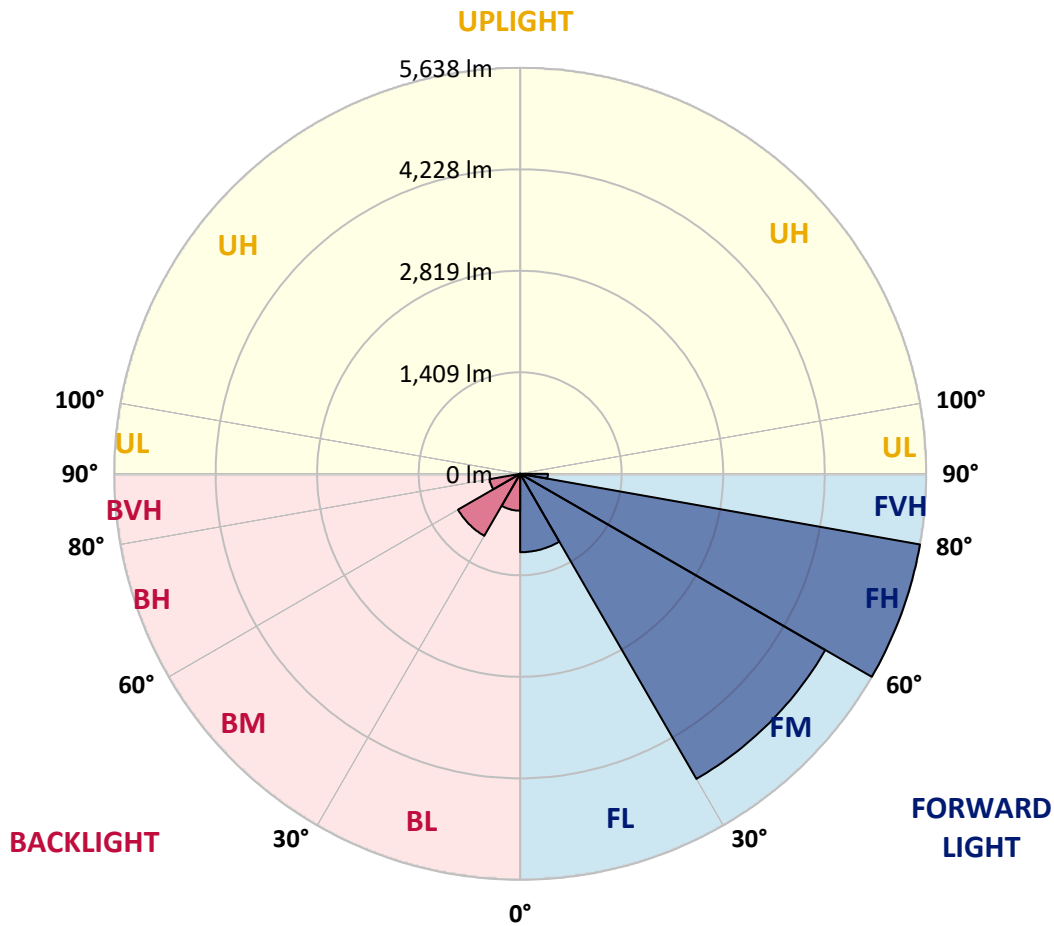
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.5	7.8			
FM (30°-60°)	4891.4	35.0			
FH (60°-80°)	5637.6	40.4			G3/7500
FVH (80°-90°)	384.0	2.8			G3/500
BL (0°-30°)	512.3	3.7	B2/1000		
BM (30°-60°)	995.2	7.1	B1/1000		
BH (60°-80°)	431.6	3.1	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
2.5°	2183.4	2145.9	2123.8	2069.0	2014.2	1970.0	1910.3	1870.9	1823.8	1778.6
5°	2433.4	2372.8	2299.7	2199.7	2108.4	2015.1	1924.8	1835.4	1741.1	1654.6
7.5°	2644.9	2557.4	2428.6	2295.9	2179.5	2067.1	1961.3	1843.0	1728.6	1593.1
10°	2806.4	2694.9	2525.7	2351.6	2218.0	2104.6	2001.7	1901.7	1786.3	1622.9
12.5°	2904.5	2785.2	2584.3	2380.5	2227.6	2100.7	2020.9	1976.7	1931.5	1769.0
15°	2976.6	2847.7	2625.6	2400.7	2205.5	2049.8	1991.1	2035.3	2087.2	1983.4
17.5°	3051.6	2916.0	2679.5	2409.3	2145.9	1950.7	1925.7	2040.1	2160.3	2155.5
20°	3122.7	2988.1	2726.6	2403.6	2049.8	1830.5	1852.7	1998.8	2138.2	2196.9
22.5°	3204.4	3062.1	2771.8	2381.4	1924.8	1718.1	1787.3	1933.4	2055.5	2124.7
25°	3304.4	3155.4	2835.2	2348.8	1790.2	1624.8	1720.9	1857.5	1956.5	2004.6
27.5°	3412.1	3266.9	2919.8	2331.4	1681.5	1558.5	1646.0	1767.1	1855.5	1889.2
30°	3545.7	3396.7	3019.8	2312.2	1610.4	1520.0	1568.1	1662.3	1748.8	1782.5
32.5°	3691.9	3540.9	3116.0	2266.1	1567.1	1491.2	1492.1	1551.7	1630.6	1671.0
35°	3874.5	3714.0	3218.8	2165.1	1532.5	1457.5	1418.1	1446.9	1512.3	1560.4
37.5°	4135.1	3940.9	3344.8	2020.9	1481.6	1405.6	1340.2	1347.0	1396.9	1449.8
40°	4494.7	4245.6	3492.8	1870.9	1408.5	1332.5	1254.7	1251.8	1288.3	1340.2
42.5°	4981.1	4648.5	3670.7	1727.7	1338.3	1244.1	1164.3	1159.5	1188.3	1233.5
45°	5623.4	5163.8	3889.0	1604.6	1283.5	1157.6	1078.7	1076.8	1100.8	1140.2
47.5°	6445.4	5880.1	4107.2	1521.0	1254.7	1089.3	1008.5	1012.4	1033.5	1069.1
50°	7509.7	6813.6	4173.5	1478.7	1254.7	1052.8	946.0	965.3	982.6	1009.5
52.5°	8785.5	7709.6	3954.3	1440.2	1262.3	1057.6	893.2	934.5	947.0	970.1
55°	9968.0	8149.0	3399.6	1387.3	1264.3	1087.4	848.0	909.5	932.6	941.2
57.5°	10654.5	7998.1	2748.7	1297.9	1256.6	1107.6	819.1	878.7	923.0	928.7
60°	10523.7	7468.3	2023.8	1229.7	1199.9	1099.9	810.5	831.6	901.8	910.5
62.5°	9516.2	6580.0	1404.6	1176.8	1074.9	1066.2	807.6	757.6	855.7	876.8
65°	7649.1	5180.1	992.2	1013.3	942.2	993.1	792.2	680.7	799.9	828.7
67.5°	5549.3	3505.3	716.3	821.1	853.7	874.9	757.6	624.9	736.4	774.9
70°	3561.1	1893.0	502.8	542.2	719.1	743.2	698.0	574.9	672.0	716.3
72.5°	2531.4	1118.1	361.5	379.8	577.8	619.2	614.3	519.2	597.0	650.9
75°	1746.9	616.3	244.2	271.1	419.2	502.8	474.0	446.1	505.7	560.5
77.5°	1095.1	275.9	146.1	188.4	275.0	395.1	325.0	345.2	394.2	445.1
80°	609.5	106.7	81.7	125.0	150.0	287.5	179.8	222.1	290.3	326.9
82.5°	132.7	13.5	36.5	53.8	58.6	167.3	95.2	128.8	182.7	179.8
85°	0.0	0.0	6.7	7.7	3.8	72.1	34.6	42.3	59.6	55.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
1738.3	2.5°	1730.6	1683.5	1648.8	1631.5	1617.1	1630.6	1638.3	1638.3	1671.0	1690.2
1601.7	5°	1568.1	1483.5	1419.1	1375.8	1349.8	1358.5	1368.1	1378.7	1420.0	1447.9
1521.0	7.5°	1455.6	1325.8	1227.7	1167.2	1135.4	1140.2	1147.0	1155.6	1196.0	1223.9
1532.5	10°	1434.4	1247.9	1109.5	1029.7	991.2	984.5	980.7	977.8	1001.8	1023.0
1663.3	12.5°	1521.0	1251.8	1058.5	961.4	914.3	894.1	871.0	852.8	856.6	870.1
1861.3	15°	1675.8	1300.8	1042.2	925.8	867.2	833.6	806.6	784.5	779.7	784.5
2034.4	17.5°	1852.7	1367.1	1040.3	895.1	822.0	787.4	765.3	745.1	738.4	739.3
2131.5	20°	1970.0	1420.0	1034.5	860.5	778.8	748.0	728.8	708.6	701.8	703.8
2104.6	22.5°	1981.5	1447.9	1025.8	822.0	735.5	709.5	690.3	672.0	671.1	671.1
2003.6	25°	1919.0	1447.9	1007.6	787.4	694.1	671.1	653.8	631.7	635.5	637.4
1889.2	27.5°	1821.9	1413.3	973.0	759.5	658.6	634.5	617.2	597.0	601.9	604.7
1782.5	30°	1725.8	1369.1	931.6	727.8	624.9	597.0	584.5	567.2	569.2	573.0
1676.7	32.5°	1636.3	1322.0	882.6	701.8	591.3	563.4	553.8	534.6	537.4	541.3
1572.9	35°	1547.9	1270.0	824.9	671.1	560.5	532.6	524.9	502.8	504.7	510.5
1469.1	37.5°	1452.7	1215.2	777.8	640.3	530.7	501.9	494.2	471.1	473.0	479.7
1361.4	40°	1352.7	1161.4	731.6	607.6	499.0	470.1	463.4	438.4	440.3	448.0
1255.6	42.5°	1251.8	1102.8	696.1	565.3	466.3	435.5	428.8	405.7	408.6	417.3
1163.3	45°	1158.5	1032.6	673.0	518.2	435.5	400.9	394.2	373.0	378.8	388.4
1085.4	47.5°	1078.7	960.5	663.4	478.8	402.8	365.3	359.6	342.3	351.9	362.5
1019.1	50°	1010.5	891.2	650.9	438.4	372.1	334.6	328.8	317.3	329.8	340.3
973.9	52.5°	961.4	812.4	624.0	401.9	345.2	308.6	306.7	300.9	312.5	322.1
940.3	55°	919.1	730.7	580.7	370.1	321.1	286.5	288.4	285.5	295.2	302.8
920.1	57.5°	880.7	659.5	525.9	345.2	295.2	267.3	273.0	269.2	274.0	278.8
898.9	60°	834.5	587.4	460.5	317.3	264.4	248.0	254.8	244.2	243.2	245.2
860.5	62.5°	766.3	490.3	392.3	282.7	237.5	226.9	229.8	209.6	194.2	194.2
803.7	65°	671.1	394.2	328.8	244.2	206.7	198.1	196.1	167.3	146.1	144.2
742.2	67.5°	560.5	324.0	273.0	205.7	172.1	166.3	168.2	147.1	125.9	124.0
680.7	70°	456.7	268.2	220.2	164.4	132.7	138.4	147.1	125.9	105.8	102.9
608.6	72.5°	371.1	213.4	172.1	125.9	98.1	114.4	125.0	102.9	83.6	81.7
519.2	75°	286.5	156.7	123.1	85.6	71.1	88.5	98.1	75.0	59.6	56.7
401.9	77.5°	191.3	97.1	69.2	53.8	42.3	60.6	65.4	39.4	34.6	33.6
292.3	80°	116.3	45.2	29.8	26.0	14.4	22.1	26.0	16.3	18.3	19.2
155.8	82.5°	58.6	12.5	4.8	1.0	0.0	0.0	7.7	3.8	7.7	9.6
42.3	85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.8
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°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
1697.9	2.5°	1751.7	1792.1	1830.5	1892.1	1955.5	2018.0	2081.5	2143.0	2165.1	2181.5
1466.2	5°	1549.8	1625.8	1714.2	1836.3	1967.1	2101.7	2238.2	2363.2	2419.9	2458.4
1247.9	7.5°	1341.2	1440.2	1567.1	1750.8	1955.5	2169.9	2384.3	2581.4	2672.8	2746.8
1042.2	10°	1134.5	1242.2	1402.7	1612.3	1889.2	2196.9	2493.0	2764.1	2882.3	2975.6
894.1	12.5°	952.8	1053.7	1222.0	1453.7	1785.4	2175.7	2555.5	2881.4	3020.8	3125.6
788.4	15°	824.9	896.0	1045.1	1295.0	1662.3	2107.4	2559.3	2937.1	3090.0	3199.6
744.1	17.5°	753.8	777.8	874.9	1133.5	1525.8	2018.0	2523.7	2956.4	3119.8	3221.7
704.7	20°	715.3	719.1	746.1	923.9	1350.8	1934.4	2490.1	2975.6	3147.7	3233.3
676.8	22.5°	684.5	684.5	691.3	755.7	1124.9	1834.4	2479.5	3009.3	3186.2	3239.0
645.1	25°	656.7	656.7	658.6	675.9	891.2	1681.5	2472.8	3061.2	3239.0	3253.5
613.4	27.5°	627.8	628.8	628.8	638.4	718.2	1473.9	2443.9	3128.5	3302.5	3272.7
582.6	30°	599.0	600.9	600.9	607.6	635.5	1230.6	2387.2	3209.2	3385.2	3297.7
551.9	32.5°	570.1	572.0	572.0	577.8	598.0	982.6	2316.1	3283.3	3468.8	3308.3
522.1	35°	540.3	543.2	541.3	549.0	570.1	781.6	2225.7	3357.3	3559.2	3341.9
493.2	37.5°	510.5	512.4	511.5	519.2	543.2	674.9	2120.9	3413.1	3682.2	3416.9
462.4	40°	480.7	479.7	479.7	488.4	514.4	644.2	1989.2	3501.5	3859.2	3548.6
431.7	42.5°	449.9	449.9	448.0	457.6	489.4	621.1	1863.2	3660.1	4116.8	3758.2
402.8	45°	422.1	421.1	417.3	425.9	465.3	580.7	1819.0	3956.3	4497.5	4097.6
374.0	47.5°	395.1	394.2	384.6	392.3	436.5	544.2	1984.4	4440.8	5025.4	4596.6
350.9	50°	371.1	372.1	353.8	360.5	407.6	516.3	2343.0	5069.6	5726.2	5268.6
331.7	52.5°	349.0	349.0	325.0	328.8	372.1	491.3	2684.3	5751.2	6651.1	6206.0
311.5	55°	326.9	325.0	298.0	300.0	336.5	455.7	2735.2	6416.5	7912.5	7616.4
289.4	57.5°	301.9	298.0	273.0	273.0	303.8	429.8	2370.9	6928.0	9477.7	9689.2
248.0	60°	271.1	268.2	251.9	247.1	277.9	452.8	1672.9	6987.6	10487.2	12445.6
197.1	62.5°	231.7	235.5	226.9	220.2	252.9	470.1	991.2	6507.9	10243.0	13322.4
152.9	65°	182.7	198.1	196.1	191.3	277.9	396.1	585.5	5586.8	9494.0	12614.8
133.6	67.5°	155.8	166.3	163.4	163.4	291.3	300.9	368.2	4364.9	8463.4	11775.5
111.5	70°	132.7	143.3	132.7	132.7	220.2	182.7	254.8	3047.7	7351.0	10846.8
89.4	72.5°	109.6	120.2	108.6	100.9	175.9	136.5	186.5	1904.6	6295.4	9879.6
63.5	75°	83.6	96.1	87.5	77.9	116.3	101.9	141.3	1106.6	5215.7	8452.8
38.5	77.5°	52.9	69.2	65.4	54.8	85.6	74.0	101.9	658.6	4024.5	6605.0
23.1	80°	32.7	35.6	36.5	34.6	49.0	50.0	69.2	375.0	2754.5	4603.3
14.4	82.5°	21.2	21.2	16.3	18.3	24.0	28.8	39.4	141.3	1619.0	2802.5
8.7	85°	15.4	13.5	8.7	8.7	11.5	14.4	15.4	43.3	656.7	1106.6
3.8	87.5°	7.7	6.7	2.9	3.8	5.8	4.8	3.8	1.9	165.4	353.8
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°
1932.5	0°	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5	1932.5
2218.0	2.5°	2237.2	2267.0	2269.0	2269.0	2243.0	2242.0	2189.2	2183.4
2544.9	5°	2634.3	2653.5	2658.3	2648.7	2596.8	2558.3	2455.5	2433.4
2878.5	7.5°	2997.7	3036.2	3036.2	3013.1	2928.5	2849.7	2700.6	2644.9
3154.4	10°	3288.1	3332.3	3322.7	3275.6	3168.8	3060.2	2879.5	2806.4
3321.7	12.5°	3429.4	3474.6	3449.6	3395.7	3291.9	3177.5	2987.1	2904.5
3369.8	15°	3426.5	3414.0	3388.1	3381.3	3331.3	3244.8	3066.9	2976.6
3340.0	17.5°	3304.4	3198.7	3178.5	3245.8	3309.2	3288.1	3136.2	3051.6
3268.8	20°	3111.2	2926.6	2908.3	3037.1	3217.9	3310.2	3200.6	3122.7
3166.0	22.5°	2907.3	2708.3	2666.0	2808.3	3080.4	3316.9	3282.3	3204.4
3052.5	25°	2714.1	2514.1	2471.8	2604.5	2927.5	3305.4	3370.7	3304.4
2943.9	27.5°	2552.6	2359.3	2319.9	2452.6	2780.4	3272.7	3459.2	3412.1
2836.2	30°	2427.6	2248.8	2219.9	2347.8	2653.5	3232.3	3571.7	3545.7
2736.2	32.5°	2354.5	2223.8	2234.3	2339.1	2585.3	3188.1	3679.4	3691.9
2687.2	35°	2426.6	2432.4	2524.7	2568.0	2648.7	3181.3	3825.5	3874.5
2745.8	37.5°	2785.2	2985.2	3176.5	3141.0	2959.3	3259.2	4043.7	4135.1
3001.6	40°	3395.7	3806.3	4116.8	3981.3	3523.6	3497.7	4358.1	4494.7
3455.4	42.5°	4141.8	4837.9	5349.4	4985.9	4251.4	3914.9	4807.1	4981.1
4004.3	45°	4929.2	6109.8	6915.5	6159.8	5027.3	4499.5	5486.8	5623.4
4518.7	47.5°	5758.9	7655.8	8698.0	7461.6	5746.4	5164.8	6413.7	6445.4
5006.1	50°	6666.5	9350.8	10515.1	8762.4	6440.6	5927.2	7546.2	7509.7
5574.3	52.5°	7530.8	11093.9	12293.7	10069.0	7050.1	6873.2	8860.5	8785.5
6351.2	55°	8355.7	12836.0	14082.9	11324.6	7625.0	8123.1	10421.8	9968.0
7471.2	57.5°	9312.3	14402.1	15926.9	12586.0	8428.8	9745.9	12167.8	10654.5
9616.1	60°	10726.6	16181.7	18012.3	14314.6	9957.5	11451.5	12793.7	10523.7
12185.1	62.5°	12532.1	17818.0	19528.4	16008.6	11492.8	11772.6	11871.6	9516.2
11661.1	65°	12883.1	18232.4	19614.0	16461.5	11294.8	9986.3	9692.1	7649.1
10416.1	67.5°	11952.4	17483.5	18418.0	15618.3	9991.1	7717.3	7273.2	5549.3
9598.8	70°	10908.3	16055.8	16333.6	14184.8	8787.4	5676.2	4911.9	3561.1
9039.3	72.5°	9838.2	14151.2	13576.2	12318.7	7723.1	4133.2	3542.8	2531.4
8242.3	75°	8567.2	11646.7	10693.9	10235.3	6394.4	3243.8	2563.2	1746.9
7089.5	77.5°	6860.7	8198.1	7943.3	7933.7	4805.2	2369.9	1710.4	1095.1
5538.8	80°	4839.8	5320.5	5190.7	5975.2	3223.7	1719.0	1029.7	609.5
3855.3	82.5°	2343.0	2942.0	3019.8	3558.2	1568.1	1011.4	237.5	132.7
1507.5	85°	917.2	1419.1	1197.0	1350.8	440.3	281.7	5.8	0.0
248.0	87.5°	102.9	164.4	150.9	119.2	53.8	11.5	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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