

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: P947046

Luminaire Tested: **GALN-SB2C-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947046
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-SB2C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA 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: 11430 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

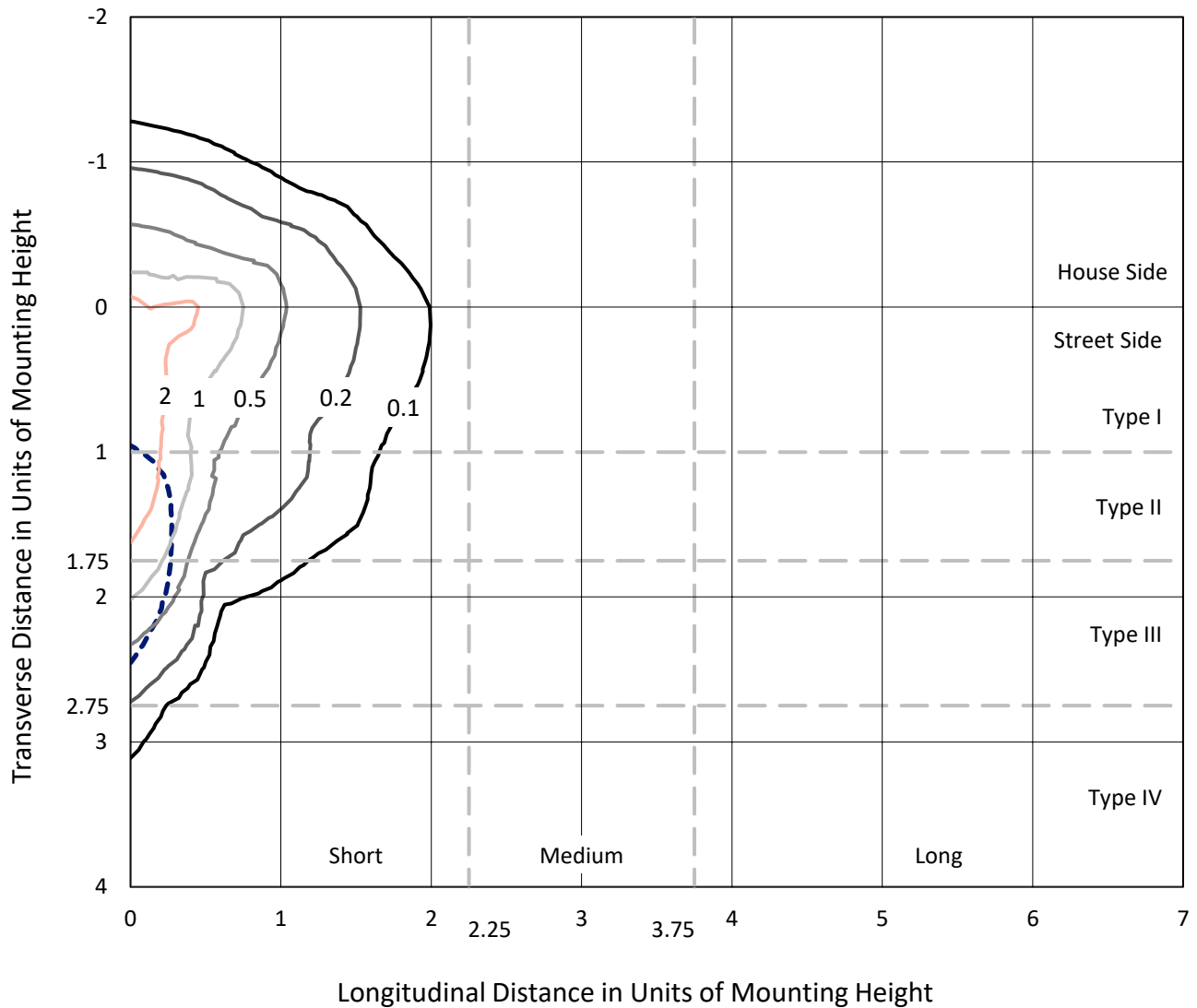
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

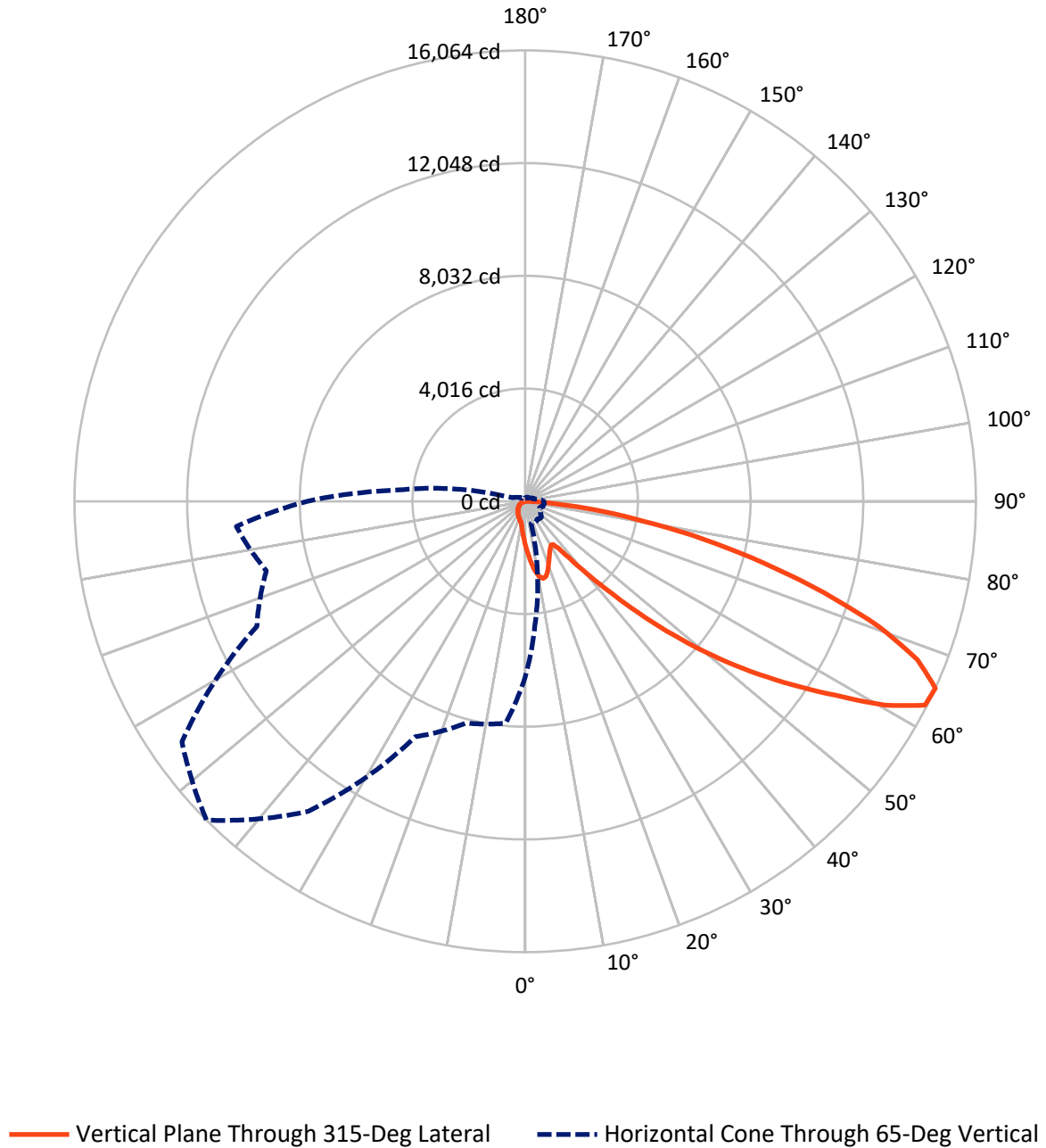
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1600.7	0.0	1600.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9829.3	0.0	9829.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	11430.0	0.0	11430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.4
10°-20°	467.1	4.1
20°-30°	688.1	6.0
30°-40°	884.1	7.7
40°-50°	1429.8	12.5
50°-60°	2507.3	21.9
60°-70°	3137.3	27.4
70°-80°	1833.3	16.0
80°-90°	327.1	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°	11430.0	100.0
0°-180°	11430.0	100.0

Coefficient of Utilization



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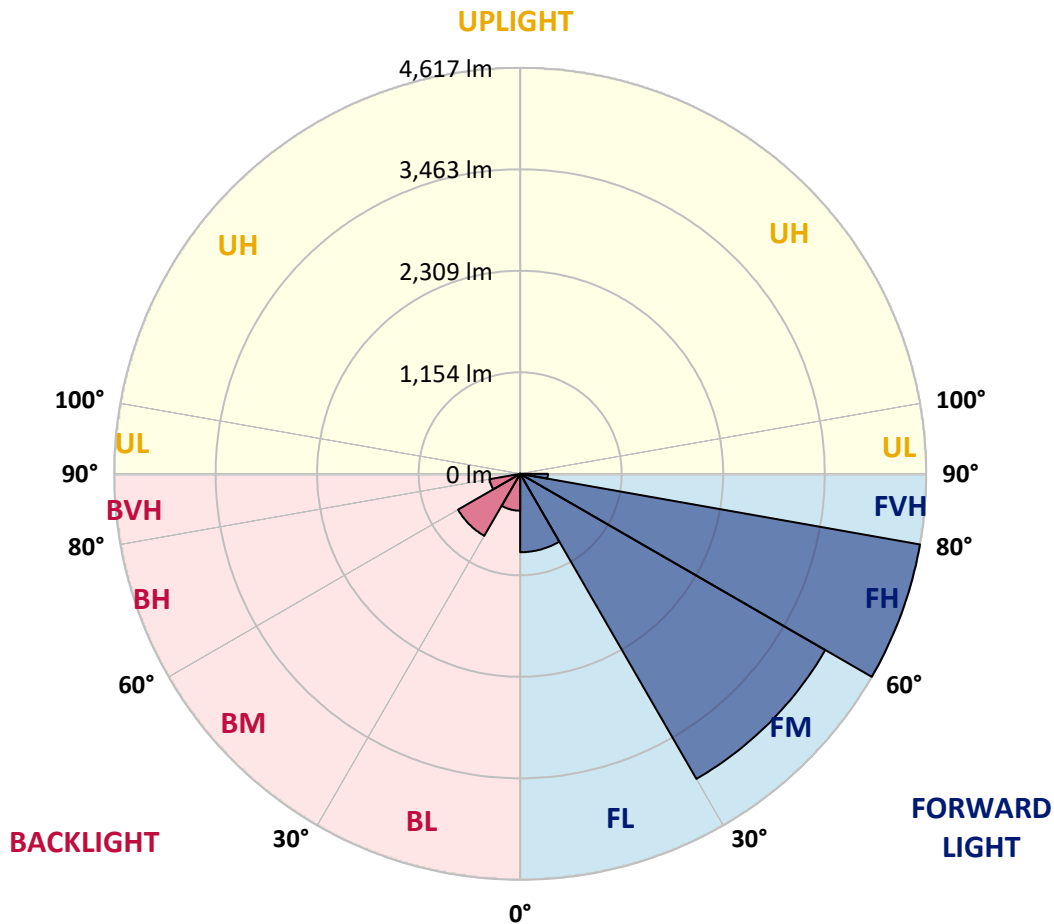
CATALOG NUMBER: GALN-SB2C-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.5	7.8			
FM (30°-60°)	4006.1	35.0			
FH (60°-80°)	4617.2	40.4			G2/5000
FVH (80°-90°)	314.5	2.8			G3/500
BL (0°-30°)	419.6	3.7	B1/500		
BM (30°-60°)	815.1	7.1	B1/1000		
BH (60°-80°)	353.4	3.1	B1/500		G1/500
BVH (80°-90°)	12.6	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°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
2.5°	1788.2	1757.5	1739.4	1694.5	1649.6	1613.4	1564.6	1532.3	1493.7	1456.7
5°	1992.9	1943.3	1883.5	1801.6	1726.8	1650.4	1576.4	1503.2	1426.0	1355.1
7.5°	2166.2	2094.5	1989.0	1880.3	1785.1	1692.9	1606.3	1509.5	1415.8	1304.7
10°	2298.4	2207.1	2068.5	1926.0	1816.5	1723.6	1639.4	1557.5	1463.0	1329.1
12.5°	2378.8	2281.1	2116.6	1949.6	1824.4	1720.5	1655.1	1618.9	1581.9	1448.8
15°	2437.8	2332.3	2150.4	1966.2	1806.3	1678.8	1630.7	1666.9	1709.5	1624.4
17.5°	2499.2	2388.2	2194.5	1973.2	1757.5	1597.7	1577.2	1670.9	1769.3	1765.4
20°	2557.5	2447.3	2233.1	1968.5	1678.8	1499.2	1517.3	1637.0	1751.2	1799.2
22.5°	2624.4	2507.9	2270.1	1950.4	1576.4	1407.1	1463.8	1583.5	1683.5	1740.2
25°	2706.3	2584.3	2322.1	1923.6	1466.2	1330.7	1409.5	1521.3	1602.4	1641.7
27.5°	2794.5	2675.6	2391.4	1909.5	1377.2	1276.4	1348.0	1447.3	1519.7	1547.3
30°	2904.0	2781.9	2473.2	1893.7	1318.9	1244.9	1284.3	1361.4	1432.3	1459.9
32.5°	3023.6	2900.0	2552.0	1855.9	1283.5	1221.3	1222.1	1270.9	1335.4	1368.5
35°	3173.3	3041.8	2636.2	1773.2	1255.1	1193.7	1161.4	1185.0	1238.6	1278.0
37.5°	3386.6	3227.6	2739.4	1655.1	1213.4	1151.2	1097.6	1103.2	1144.1	1187.4
40°	3681.1	3477.2	2860.7	1532.3	1153.6	1091.3	1027.6	1025.2	1055.1	1097.6
42.5°	4079.6	3807.1	3006.3	1415.0	1096.1	1018.9	953.6	949.6	973.2	1010.2
45°	4605.5	4229.2	3185.1	1314.2	1051.2	948.0	883.5	881.9	901.6	933.9
47.5°	5278.8	4815.8	3363.8	1245.7	1027.6	892.1	826.0	829.1	846.5	875.6
50°	6150.4	5580.4	3418.1	1211.0	1027.6	862.2	774.8	790.6	804.7	826.8
52.5°	7195.3	6314.2	3238.6	1179.5	1033.9	866.1	731.5	765.4	775.6	794.5
55°	8163.8	6674.1	2784.3	1136.2	1035.4	890.6	694.5	744.9	763.8	770.9
57.5°	8726.1	6550.4	2251.2	1063.0	1029.1	907.1	670.9	719.7	755.9	760.6
60°	8619.0	6116.6	1657.5	1007.1	982.7	900.8	663.8	681.1	738.6	745.7
62.5°	7793.8	5389.0	1150.4	963.8	880.3	873.2	661.4	620.5	700.8	718.1
65°	6264.6	4242.6	812.6	829.9	771.7	813.4	648.8	557.5	655.1	678.7
67.5°	4544.9	2870.9	586.6	672.4	699.2	716.5	620.5	511.8	603.2	634.7
70°	2916.6	1550.4	411.8	444.1	589.0	608.7	571.7	470.9	550.4	586.6
72.5°	2073.2	915.8	296.1	311.0	473.2	507.1	503.2	425.2	489.0	533.1
75°	1430.7	504.7	200.0	222.0	343.3	411.8	388.2	365.4	414.2	459.1
77.5°	896.9	226.0	119.7	154.3	225.2	323.6	266.1	282.7	322.8	364.6
80°	499.2	87.4	66.9	102.4	122.8	235.4	147.2	181.9	237.8	267.7
82.5°	108.7	11.0	29.9	44.1	48.0	137.0	78.0	105.5	149.6	147.2
85°	0.0	0.0	5.5	6.3	3.1	59.1	28.3	34.6	48.8	45.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1423.6	2.5°	1417.3	1378.8	1350.4	1336.2	1324.4	1335.4	1341.7	1341.7	1368.5	1384.3
1311.8	5°	1284.3	1215.0	1162.2	1126.8	1105.5	1112.6	1120.5	1129.1	1163.0	1185.8
1245.7	7.5°	1192.1	1085.8	1005.5	955.9	929.9	933.9	939.4	946.5	979.5	1002.4
1255.1	10°	1174.8	1022.1	908.7	843.3	811.8	806.3	803.2	800.8	820.5	837.8
1362.2	12.5°	1245.7	1025.2	866.9	787.4	748.8	732.3	713.4	698.4	701.6	712.6
1524.4	15°	1372.5	1065.4	853.5	758.3	710.2	682.7	660.6	642.5	638.6	642.5
1666.2	17.5°	1517.3	1119.7	852.0	733.1	673.2	644.9	626.8	610.2	604.7	605.5
1745.7	20°	1613.4	1163.0	847.3	704.7	637.8	612.6	596.9	580.3	574.8	576.4
1723.6	22.5°	1622.8	1185.8	840.2	673.2	602.4	581.1	565.4	550.4	549.6	549.6
1641.0	25°	1571.7	1185.8	825.2	644.9	568.5	549.6	535.4	517.3	520.5	522.1
1547.3	27.5°	1492.1	1157.5	796.9	622.1	539.4	519.7	505.5	489.0	492.9	495.3
1459.9	30°	1413.4	1121.3	763.0	596.1	511.8	489.0	478.7	464.6	466.1	469.3
1373.2	32.5°	1340.2	1082.7	722.8	574.8	484.3	461.4	453.5	437.8	440.2	443.3
1288.2	35°	1267.7	1040.2	675.6	549.6	459.1	436.2	429.9	411.8	413.4	418.1
1203.2	37.5°	1189.8	995.3	637.0	524.4	434.6	411.0	404.7	385.8	387.4	392.9
1115.0	40°	1107.9	951.2	599.2	497.6	408.7	385.0	379.5	359.1	360.6	366.9
1028.4	42.5°	1025.2	903.2	570.1	463.0	381.9	356.7	351.2	332.3	334.6	341.7
952.8	45°	948.8	845.7	551.2	424.4	356.7	328.3	322.8	305.5	310.2	318.1
889.0	47.5°	883.5	786.6	543.3	392.1	329.9	299.2	294.5	280.3	288.2	296.9
834.7	50°	827.6	729.9	533.1	359.1	304.7	274.0	269.3	259.8	270.1	278.7
797.6	52.5°	787.4	665.4	511.0	329.1	282.7	252.8	251.2	246.5	255.9	263.8
770.1	55°	752.8	598.4	475.6	303.2	263.0	234.6	236.2	233.9	241.7	248.0
753.5	57.5°	721.3	540.2	430.7	282.7	241.7	218.9	223.6	220.5	224.4	228.3
736.2	60°	683.5	481.1	377.2	259.8	216.5	203.2	208.7	200.0	199.2	200.8
704.7	62.5°	627.6	401.6	321.3	231.5	194.5	185.8	188.2	171.7	159.1	159.1
658.3	65°	549.6	322.8	269.3	200.0	169.3	162.2	160.6	137.0	119.7	118.1
607.9	67.5°	459.1	265.4	223.6	168.5	140.9	136.2	137.8	120.5	103.2	101.6
557.5	70°	374.0	219.7	180.3	134.6	108.7	113.4	120.5	103.2	86.6	84.3
498.4	72.5°	303.9	174.8	140.9	103.2	80.3	93.7	102.4	84.3	68.5	66.9
425.2	75°	234.6	128.3	100.8	70.1	58.3	72.4	80.3	61.4	48.8	46.5
329.1	77.5°	156.7	79.5	56.7	44.1	34.6	49.6	53.5	32.3	28.3	27.6
239.4	80°	95.3	37.0	24.4	21.3	11.8	18.1	21.3	13.4	15.0	15.7
127.6	82.5°	48.0	10.2	3.9	0.8	0.0	0.0	6.3	3.1	6.3	7.9
34.6	85°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9
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°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1390.6	2.5°	1434.7	1467.7	1499.2	1549.6	1601.6	1652.8	1704.7	1755.1	1773.2	1786.6
1200.8	5°	1269.3	1331.5	1403.9	1503.9	1611.0	1721.3	1833.1	1935.4	1981.9	2013.4
1022.1	7.5°	1098.4	1179.5	1283.5	1433.9	1601.6	1777.2	1952.8	2114.2	2189.0	2249.6
853.5	10°	929.1	1017.3	1148.8	1320.5	1547.3	1799.2	2041.7	2263.8	2360.6	2437.0
732.3	12.5°	780.3	863.0	1000.8	1190.6	1462.2	1781.9	2092.9	2359.9	2474.0	2559.9
645.7	15°	675.6	733.9	855.9	1060.6	1361.4	1726.0	2096.1	2405.5	2530.7	2620.5
609.5	17.5°	617.3	637.0	716.5	928.4	1249.6	1652.8	2066.9	2421.3	2555.1	2638.6
577.2	20°	585.8	589.0	611.0	756.7	1106.3	1584.3	2039.4	2437.0	2578.0	2648.1
554.3	22.5°	560.6	560.6	566.1	618.9	921.3	1502.4	2030.7	2464.6	2609.5	2652.8
528.4	25°	537.8	537.8	539.4	553.5	729.9	1377.2	2025.2	2507.1	2652.8	2664.6
502.4	27.5°	514.2	515.0	515.0	522.8	588.2	1207.1	2001.6	2562.2	2704.7	2680.3
477.2	30°	490.6	492.1	492.1	497.6	520.5	1007.9	1955.1	2628.4	2772.5	2700.8
452.0	32.5°	466.9	468.5	468.5	473.2	489.8	804.7	1896.9	2689.0	2841.0	2709.5
427.6	35°	442.5	444.9	443.3	449.6	466.9	640.2	1822.8	2749.6	2915.0	2737.0
403.9	37.5°	418.1	419.7	418.9	425.2	444.9	552.8	1737.0	2795.3	3015.8	2798.4
378.7	40°	393.7	392.9	392.9	400.0	421.3	527.6	1629.1	2867.7	3160.7	2906.3
353.5	42.5°	368.5	368.5	366.9	374.8	400.8	508.7	1526.0	2997.7	3371.7	3078.0
329.9	45°	345.7	344.9	341.7	348.8	381.1	475.6	1489.8	3240.2	3683.5	3355.9
306.3	47.5°	323.6	322.8	315.0	321.3	357.5	445.7	1625.2	3637.0	4115.8	3764.6
287.4	50°	303.9	304.7	289.8	295.3	333.9	422.8	1918.9	4152.0	4689.8	4315.0
271.7	52.5°	285.8	285.8	266.1	269.3	304.7	402.4	2198.4	4710.3	5447.3	5082.7
255.1	55°	267.7	266.1	244.1	245.7	275.6	373.2	2240.2	5255.2	6480.4	6237.8
237.0	57.5°	247.2	244.1	223.6	223.6	248.8	352.0	1941.7	5674.1	7762.3	7935.5
203.2	60°	222.0	219.7	206.3	202.4	227.6	370.9	1370.1	5722.9	8589.0	10193.0
161.4	62.5°	189.8	192.9	185.8	180.3	207.1	385.0	811.8	5330.0	8389.0	10911.1
125.2	65°	149.6	162.2	160.6	156.7	227.6	324.4	479.5	4575.6	7775.7	10331.6
109.4	67.5°	127.6	136.2	133.9	133.9	238.6	246.5	301.6	3574.8	6931.5	9644.2
91.3	70°	108.7	117.3	108.7	108.7	180.3	149.6	208.7	2496.1	6020.5	8883.5
73.2	72.5°	89.8	98.4	89.0	82.7	144.1	111.8	152.8	1559.9	5155.9	8091.4
52.0	75°	68.5	78.7	71.7	63.8	95.3	83.5	115.7	906.3	4271.7	6922.9
31.5	77.5°	43.3	56.7	53.5	44.9	70.1	60.6	83.5	539.4	3296.1	5409.5
18.9	80°	26.8	29.1	29.9	28.3	40.2	40.9	56.7	307.1	2255.9	3770.1
11.8	82.5°	17.3	17.3	13.4	15.0	19.7	23.6	32.3	115.7	1326.0	2295.3
7.1	85°	12.6	11.0	7.1	7.1	9.4	11.8	12.6	35.4	537.8	906.3
3.1	87.5°	6.3	5.5	2.4	3.1	4.7	3.9	3.1	1.6	135.4	289.8
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°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1816.5	2.5°	1832.3	1856.7	1858.3	1858.3	1837.0	1836.2	1792.9	1788.2
2084.3	5°	2157.5	2173.2	2177.2	2169.3	2126.8	2095.3	2011.0	1992.9
2357.5	7.5°	2455.1	2486.6	2486.6	2467.7	2398.4	2333.9	2211.8	2166.2
2583.5	10°	2692.9	2729.2	2721.3	2682.7	2595.3	2506.3	2358.3	2298.4
2720.5	12.5°	2808.7	2845.7	2825.2	2781.1	2696.1	2602.4	2446.5	2378.8
2759.9	15°	2806.3	2796.1	2774.8	2769.3	2728.4	2657.5	2511.8	2437.8
2735.5	17.5°	2706.3	2619.7	2603.2	2658.3	2710.3	2692.9	2568.5	2499.2
2677.2	20°	2548.1	2396.9	2381.9	2487.4	2635.5	2711.0	2621.3	2557.5
2592.9	22.5°	2381.1	2218.1	2183.5	2300.0	2522.9	2716.6	2688.2	2624.4
2500.0	25°	2222.9	2059.1	2024.4	2133.1	2397.7	2707.1	2760.7	2706.3
2411.0	27.5°	2090.6	1932.3	1900.0	2008.7	2277.2	2680.3	2833.1	2794.5
2322.9	30°	1988.2	1841.7	1818.1	1922.8	2173.2	2647.3	2925.2	2904.0
2241.0	32.5°	1928.4	1821.3	1829.9	1915.8	2117.3	2611.0	3013.4	3023.6
2200.8	35°	1987.4	1992.1	2067.7	2103.2	2169.3	2605.5	3133.1	3173.3
2248.8	37.5°	2281.1	2444.9	2601.6	2572.5	2423.6	2669.3	3311.8	3386.6
2458.3	40°	2781.1	3117.3	3371.7	3260.7	2885.8	2864.6	3569.3	3681.1
2829.9	42.5°	3392.2	3962.2	4381.1	4083.5	3481.9	3206.3	3937.0	4079.6
3279.6	45°	4037.0	5004.0	5663.8	5044.9	4117.4	3685.1	4493.7	4605.5
3700.8	47.5°	4716.6	6270.1	7123.7	6111.1	4706.3	4230.0	5252.8	5278.8
4100.0	50°	5459.9	7658.3	8611.9	7176.4	5274.8	4854.4	6180.4	6150.4
4565.4	52.5°	6167.8	9085.9	10068.6	8246.5	5774.1	5629.2	7256.7	7195.3
5201.6	55°	6843.4	10512.7	11533.9	9274.9	6244.9	6652.8	8535.5	8163.8
6118.9	57.5°	7626.8	11795.4	13044.2	10308.0	6903.2	7982.0	9965.4	8726.1
7875.7	60°	8785.1	13252.9	14752.1	11723.7	8155.2	9378.8	10478.0	8619.0
9979.6	62.5°	10263.9	14593.0	15993.8	13111.1	9412.7	9641.8	9722.9	7793.8
9550.5	65°	10551.3	14932.4	16063.9	13482.0	9250.5	8178.8	7937.9	6264.6
8530.8	67.5°	9789.1	14319.0	15084.4	12791.4	8182.7	6320.5	5956.7	4544.9
7861.5	70°	8933.9	13149.7	13377.3	11617.4	7196.9	4648.9	4022.9	2916.6
7403.2	72.5°	8057.5	11589.9	11119.0	10089.1	6325.2	3385.1	2901.6	2073.2
6750.4	75°	7016.6	9538.7	8758.3	8382.7	5237.0	2656.7	2099.2	1430.7
5806.3	77.5°	5618.9	6714.2	6505.6	6497.7	3935.5	1941.0	1400.8	896.9
4536.3	80°	3963.8	4357.5	4251.2	4893.7	2640.2	1407.9	843.3	499.2
3157.5	82.5°	1918.9	2409.5	2473.2	2914.2	1284.3	828.4	194.5	108.7
1234.7	85°	751.2	1162.2	980.3	1106.3	360.6	230.7	4.7	0.0
203.2	87.5°	84.3	134.6	123.6	97.6	44.1	9.4	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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