

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: P947170

Luminaire Tested: **GALN-SB2C-835-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947170  
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-835-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

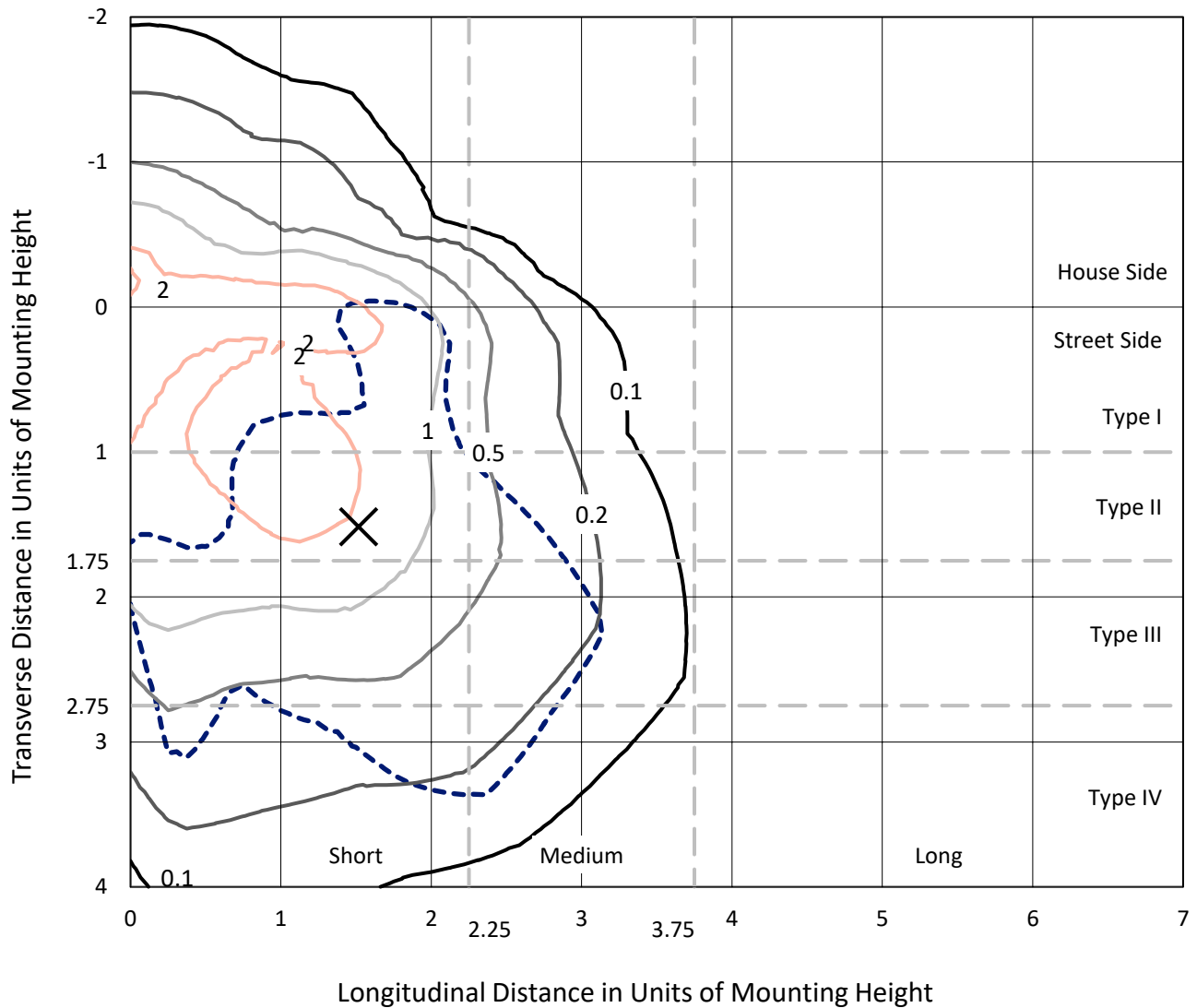
Lumens per Lamp: N/A  
Luminaire Lumens: 10602 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

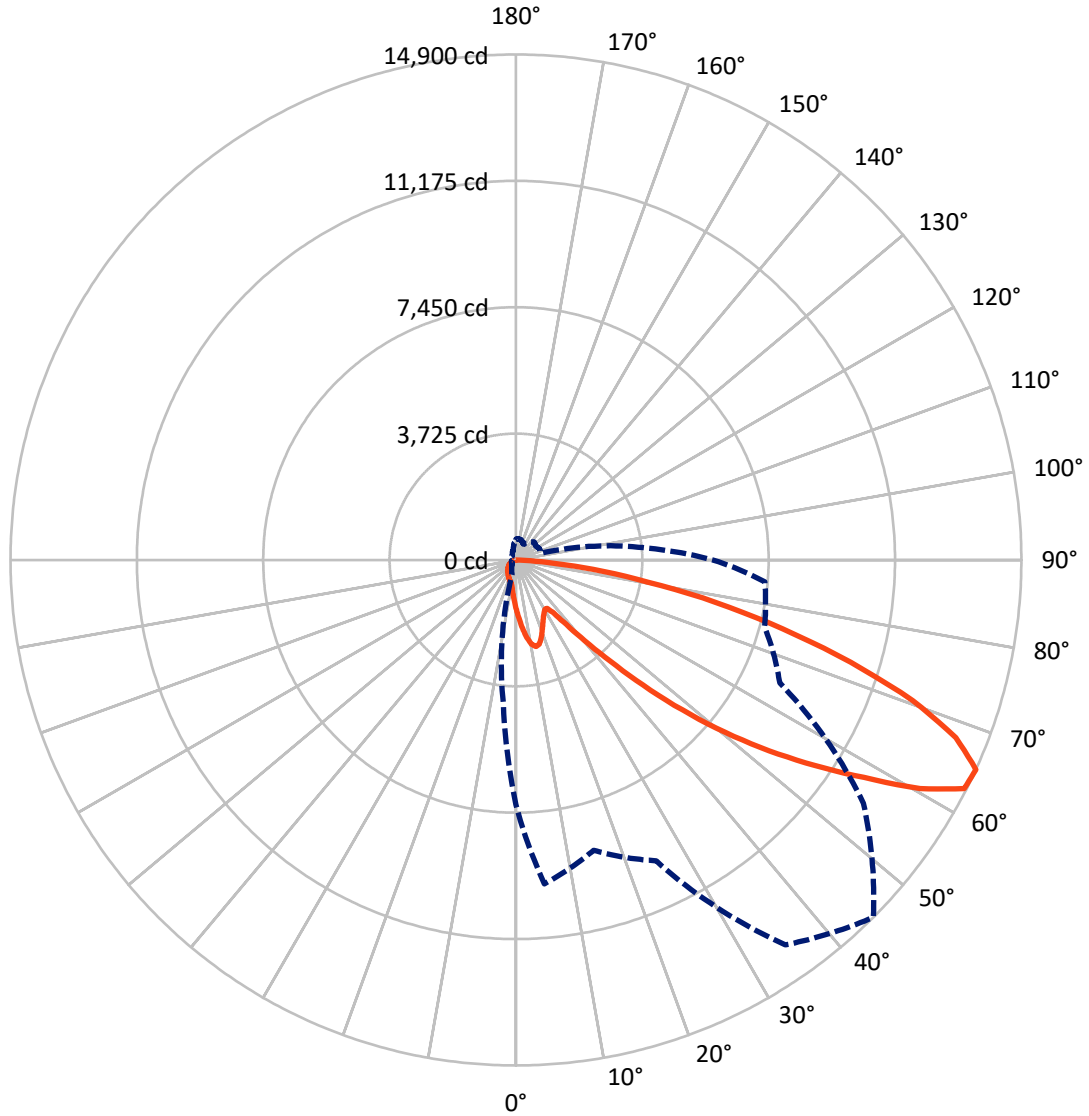
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2107.4	0.0	2107.4
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	8494.7	0.0	8494.7
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	10602.0	0.0	10602.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	1.4
10°-20°	433.3	4.1
20°-30°	638.3	6.0
30°-40°	820.0	7.7
40°-50°	1326.2	12.5
50°-60°	2325.7	21.9
60°-70°	2910.1	27.4
70°-80°	1700.5	16.0
80°-90°	303.4	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°	10602.0	100.0
0°-180°	10602.0	100.0



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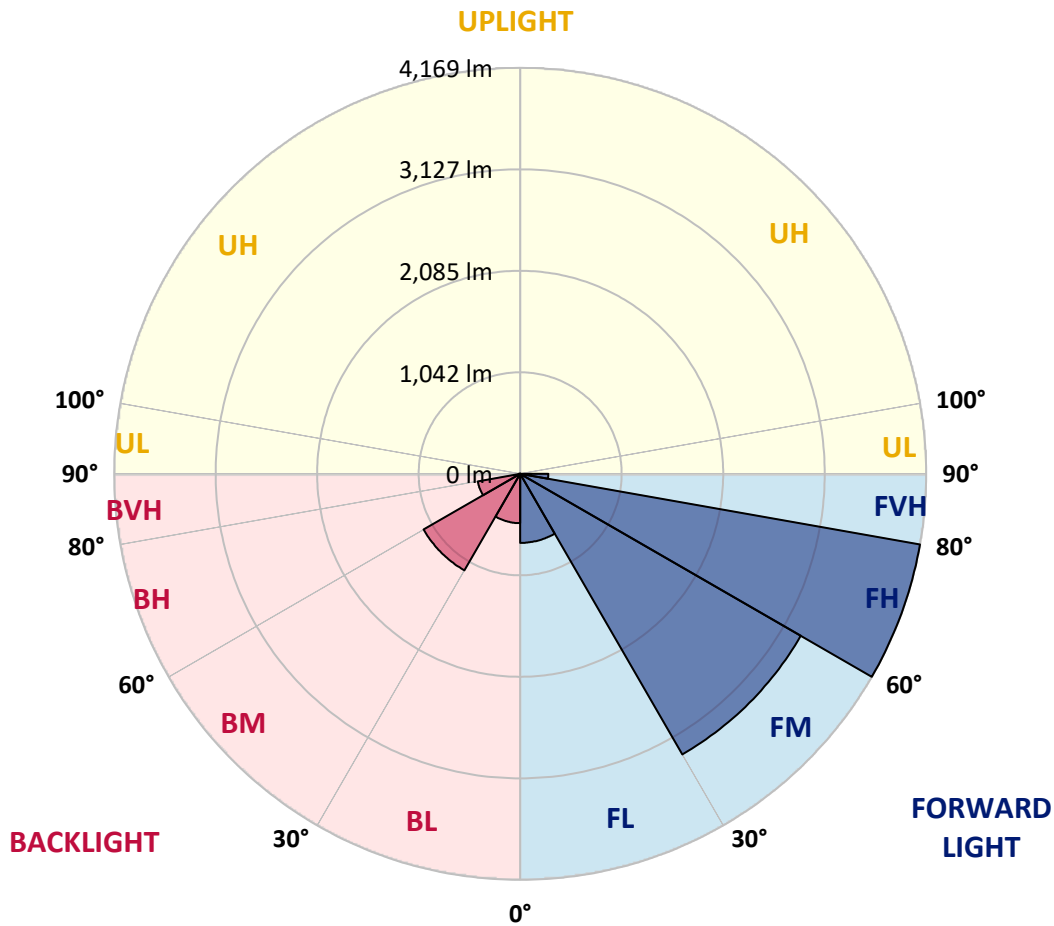
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.4	6.7			
FM (30°-60°)	3327.0	31.4			
FH (60°-80°)	4169.0	39.3			G2/5000
FVH (80°-90°)	289.2	2.7			G3/500
BL (0°-30°)	506.7	4.8	B2/1000		
BM (30°-60°)	1144.9	10.8	B2/2500		
BH (60°-80°)	441.5	4.2	B1/500		G1/500
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
2.5°	1644.8	1657.2	1685.0	1699.6	1722.2	1723.7	1723.7	1703.9	1703.2	1663.0
5°	1838.3	1867.5	1933.3	2001.2	2015.8	2019.5	2012.2	1972.7	1943.5	1865.4
7.5°	2030.4	2086.7	2186.7	2277.3	2306.5	2306.5	2289.0	2224.7	2164.8	2051.6
10°	2189.6	2260.5	2396.3	2497.9	2531.5	2524.1	2488.4	2407.3	2324.8	2187.4
12.5°	2294.8	2374.4	2523.4	2605.2	2639.5	2620.6	2579.7	2500.8	2413.9	2269.3
15°	2347.4	2430.7	2559.9	2603.0	2593.5	2573.8	2568.7	2530.7	2465.0	2329.9
17.5°	2370.0	2447.5	2537.3	2510.3	2429.9	2414.6	2465.7	2513.9	2497.9	2382.5
20°	2391.2	2456.2	2483.2	2363.5	2223.2	2209.4	2307.2	2444.5	2514.7	2431.4
22.5°	2420.4	2460.6	2405.1	2208.6	2057.4	2025.3	2133.4	2340.1	2519.8	2493.5
25°	2460.6	2471.6	2318.9	2061.8	1909.9	1877.8	1978.6	2224.0	2511.0	2560.7
27.5°	2508.8	2486.2	2236.4	1939.1	1792.3	1762.4	1863.2	2112.2	2486.2	2627.9
30°	2571.6	2505.2	2154.6	1844.2	1708.3	1686.4	1783.6	2015.8	2455.5	2713.3
32.5°	2635.2	2513.2	2078.6	1788.7	1689.3	1697.4	1777.0	1964.0	2421.9	2795.1
35°	2703.8	2538.8	2041.4	1843.4	1847.8	1917.9	1950.8	2012.2	2416.8	2906.1
37.5°	2797.3	2595.7	2085.9	2115.9	2267.8	2413.1	2386.1	2248.1	2475.9	3071.9
40°	2931.7	2695.8	2280.2	2579.7	2891.5	3127.4	3024.4	2676.8	2657.1	3310.8
42.5°	3127.4	2855.0	2624.9	3146.4	3675.2	4063.8	3787.7	3229.7	2974.1	3651.8
45°	3416.7	3112.8	3042.0	3744.6	4641.5	5253.5	4679.5	3819.1	3418.1	4168.2
47.5°	3817.6	3491.9	3432.7	4374.9	5815.9	6607.6	5668.4	4365.4	3923.5	4872.3
50°	4350.1	4002.4	3803.0	5064.4	7103.5	7988.0	6656.6	4892.7	4502.7	5732.7
52.5°	5052.7	4714.5	4234.7	5721.0	8427.7	9339.2	7649.1	5355.8	5221.4	6731.1
55°	6010.9	5786.0	4824.8	6347.6	9751.1	10698.4	8603.0	5792.5	6170.9	7917.2
57.5°	7200.0	7360.6	5675.7	7074.3	10940.9	12099.3	9561.2	6403.1	7403.7	9243.5
60°	7966.8	9454.6	7305.1	8148.7	12292.8	13683.4	10874.4	7564.4	8699.4	9719.0
62.5°	7781.3	10120.7	9256.7	9520.3	13535.9	14835.2	12161.3	8730.8	8943.3	9018.6
65°	7212.4	9583.1	8858.6	9786.9	13850.7	14900.2	12505.3	8580.4	7586.3	7362.8
67.5°	6429.4	8945.5	7912.8	9079.9	13281.7	13991.6	11864.8	7590.0	5862.7	5525.2
70°	5584.4	8240.0	7292.0	8286.7	12197.1	12408.2	10775.8	6675.6	4312.1	3731.4
72.5°	4782.4	7505.3	6866.9	7473.8	10750.3	10313.5	9358.2	5867.0	3139.8	2691.4
75°	3962.2	6421.4	6261.4	6508.3	8847.7	8123.9	7775.5	4857.7	2464.3	1947.2
77.5°	3057.3	5017.6	5385.7	5211.9	6227.8	6034.3	6027.0	3650.4	1800.4	1299.3
80°	2092.5	3497.0	4207.6	3676.7	4041.9	3943.3	4539.2	2448.9	1305.9	782.2
82.5°	1229.9	2129.0	2928.8	1779.9	2234.9	2294.1	2703.1	1191.2	768.3	180.4
85°	498.8	840.7	1145.2	696.8	1078.0	909.3	1026.2	334.5	214.0	4.4
87.5°	125.6	268.8	188.4	78.1	124.9	114.7	90.6	40.9	8.8	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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1468.0	0°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
1658.7	2.5°	1630.2	1613.4	1571.7	1530.1	1496.5	1451.2	1421.3	1385.5	1351.2	1320.5
1848.6	5°	1802.5	1747.0	1671.1	1601.7	1530.8	1462.2	1394.3	1322.7	1257.0	1216.8
2009.2	7.5°	1942.8	1844.9	1744.1	1655.7	1570.3	1489.9	1400.1	1313.2	1210.2	1155.4
2131.9	10°	2047.2	1918.7	1786.5	1685.0	1598.8	1520.6	1444.7	1357.0	1232.9	1164.2
2206.4	12.5°	2115.9	1963.2	1808.4	1692.3	1595.9	1535.2	1501.6	1467.3	1343.9	1263.5
2261.2	15°	2163.3	1994.6	1823.7	1675.5	1557.1	1512.6	1546.2	1585.6	1506.7	1414.0
2318.2	17.5°	2215.2	2035.5	1830.3	1630.2	1481.9	1462.9	1549.8	1641.1	1637.5	1545.5
2372.2	20°	2270.0	2071.3	1825.9	1557.1	1390.6	1407.4	1518.4	1624.3	1668.9	1619.2
2434.3	22.5°	2326.2	2105.6	1809.1	1462.2	1305.2	1357.8	1468.8	1561.5	1614.1	1598.8
2510.3	25°	2397.1	2153.9	1784.3	1359.9	1234.3	1307.4	1411.1	1486.3	1522.8	1522.1
2592.1	27.5°	2481.8	2218.1	1771.1	1277.4	1183.9	1250.4	1342.4	1409.6	1435.2	1435.2
2693.6	30°	2580.4	2294.1	1756.5	1223.4	1154.7	1191.2	1262.8	1328.5	1354.1	1354.1
2804.6	32.5°	2689.9	2367.1	1721.5	1190.5	1132.8	1133.5	1178.8	1238.7	1269.4	1273.8
2943.4	35°	2821.4	2445.3	1644.8	1164.2	1107.2	1077.3	1099.2	1148.9	1185.4	1194.9
3141.3	37.5°	2993.8	2540.9	1535.2	1125.5	1067.8	1018.1	1023.2	1061.2	1101.4	1116.0
3414.5	40°	3225.3	2653.4	1421.3	1070.0	1012.3	953.1	950.9	978.7	1018.1	1034.2
3784.0	42.5°	3531.3	2788.5	1312.5	1016.7	945.1	884.5	880.8	902.7	937.1	953.9
4271.9	45°	3922.8	2954.3	1219.0	975.0	879.4	819.5	818.0	836.3	866.2	883.7
4896.4	47.5°	4466.9	3120.1	1155.4	953.1	827.5	766.2	769.1	785.1	812.2	824.6
5704.9	50°	5176.1	3170.5	1123.3	953.1	799.8	718.7	733.3	746.4	766.9	774.2
6674.1	52.5°	5856.8	3004.0	1094.1	959.0	803.4	678.5	709.9	719.4	736.9	739.9
7572.4	55°	6190.6	2582.6	1053.9	960.4	826.0	644.2	690.9	708.5	715.0	714.3
8093.9	57.5°	6075.9	2088.1	986.0	954.6	841.4	622.3	667.6	701.2	705.5	699.0
7994.6	60°	5673.5	1537.4	934.1	911.5	835.5	615.7	631.8	685.1	691.7	682.9
7229.2	62.5°	4998.6	1067.1	894.0	816.6	810.0	613.5	575.5	650.0	666.1	653.7
5810.8	65°	3935.2	753.7	769.8	715.8	754.5	601.8	517.1	607.7	629.6	610.6
4215.7	67.5°	2662.9	544.1	623.7	648.6	664.6	575.5	474.7	559.5	588.7	563.8
2705.3	70°	1438.1	382.0	411.9	546.3	564.6	530.2	436.8	510.5	544.1	517.1
1923.1	72.5°	849.4	274.6	288.5	439.0	470.4	466.7	394.4	453.6	494.5	462.3
1327.1	75°	468.2	185.5	206.0	318.4	382.0	360.1	338.9	384.2	425.8	394.4
831.9	77.5°	209.6	111.0	143.2	208.9	300.2	246.9	262.2	299.5	338.2	305.3
463.1	80°	81.1	62.1	94.9	113.9	218.4	136.6	168.7	220.6	248.3	222.0
100.8	82.5°	10.2	27.8	40.9	44.6	127.1	72.3	97.9	138.8	136.6	118.3
0.0	85°	0.0	5.1	5.8	2.9	54.8	26.3	32.1	45.3	42.4	32.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°
1468.0	0°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
1314.7	2.5°	1278.9	1252.6	1239.4	1228.5	1238.7	1244.5	1244.5	1269.4	1284.0	1289.8
1191.2	5°	1127.0	1078.0	1045.2	1025.4	1032.0	1039.3	1047.3	1078.8	1099.9	1113.8
1105.8	7.5°	1007.2	932.7	886.7	862.6	866.2	871.3	877.9	908.6	929.8	948.0
1089.7	10°	948.0	842.8	782.2	753.0	747.9	745.0	742.8	761.0	777.1	791.7
1155.4	12.5°	950.9	804.1	730.4	694.6	679.2	661.7	647.8	650.8	661.0	679.2
1273.0	15°	988.2	791.7	703.3	658.8	633.2	612.8	596.0	592.3	596.0	598.9
1407.4	17.5°	1038.6	790.3	680.0	624.5	598.2	581.4	566.0	560.9	561.7	565.3
1496.5	20°	1078.8	785.9	653.7	591.6	568.2	553.6	538.3	533.2	534.6	535.4
1505.3	22.5°	1099.9	779.3	624.5	558.7	539.0	524.4	510.5	509.8	509.8	514.2
1457.8	25°	1099.9	765.4	598.2	527.3	509.8	496.6	479.9	482.8	484.2	490.1
1384.0	27.5°	1073.6	739.1	577.0	500.3	482.0	468.9	453.6	457.2	459.4	466.0
1311.0	30°	1040.0	707.7	552.9	474.7	453.6	444.1	430.9	432.4	435.3	442.6
1243.1	32.5°	1004.3	670.5	533.2	449.2	428.0	420.7	406.1	408.3	411.2	419.2
1175.9	35°	964.8	626.7	509.8	425.8	404.6	398.8	382.0	383.4	387.8	396.6
1103.6	37.5°	923.2	590.9	486.4	403.2	381.3	375.4	357.9	359.3	364.5	374.7
1027.6	40°	882.3	555.8	461.6	379.1	357.1	352.0	333.0	334.5	340.4	351.3
950.9	42.5°	837.7	528.8	429.5	354.2	330.9	325.7	308.2	310.4	317.0	327.9
880.1	45°	784.4	511.3	393.7	330.9	304.6	299.5	283.4	287.8	295.1	306.0
819.5	47.5°	729.6	504.0	363.7	306.0	277.5	273.2	260.0	267.3	275.3	284.1
767.6	50°	677.1	494.5	333.0	282.7	254.2	249.8	241.0	250.5	258.5	266.6
730.4	52.5°	617.2	474.0	305.3	262.2	234.4	233.0	228.6	237.4	244.7	252.0
698.2	55°	555.1	441.1	281.2	243.9	217.6	219.1	216.9	224.2	230.1	236.6
669.0	57.5°	501.0	399.5	262.2	224.2	203.0	207.4	204.5	208.2	211.8	219.8
634.0	60°	446.3	349.8	241.0	200.9	188.4	193.5	185.5	184.8	186.2	188.4
582.1	62.5°	372.5	298.0	214.7	180.4	172.4	174.6	159.2	147.5	147.5	149.7
509.8	65°	299.5	249.8	185.5	157.0	150.5	149.0	127.1	111.0	109.6	116.1
425.8	67.5°	246.1	207.4	156.3	130.7	126.4	127.8	111.7	95.7	94.2	101.5
346.9	70°	203.8	167.3	124.9	100.8	105.2	111.7	95.7	80.3	78.1	84.7
281.9	72.5°	162.1	130.7	95.7	74.5	86.9	94.9	78.1	63.5	62.1	67.9
217.6	75°	119.0	93.5	65.0	54.0	67.2	74.5	57.0	45.3	43.1	48.2
145.3	77.5°	73.8	52.6	40.9	32.1	46.0	49.7	29.9	26.3	25.6	29.2
88.4	80°	34.3	22.6	19.7	11.0	16.8	19.7	12.4	13.9	14.6	17.5
44.6	82.5°	9.5	3.7	0.7	0.0	0.0	5.8	2.9	5.8	7.3	11.0
3.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.7	6.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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°
1468.0	0°	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0	1468.0
1330.7	2.5°	1361.4	1390.6	1437.4	1485.6	1533.0	1581.2	1628.0	1644.8
1177.4	5°	1235.1	1302.2	1395.0	1494.3	1596.6	1700.3	1795.2	1838.3
1018.9	7.5°	1094.1	1190.5	1330.0	1485.6	1648.4	1811.3	1961.0	2030.4
861.8	10°	943.6	1065.6	1224.8	1435.2	1668.9	1893.8	2099.8	2189.6
723.8	12.5°	800.5	928.3	1104.3	1356.3	1652.8	1941.3	2188.9	2294.8
626.7	15°	680.7	793.9	983.8	1262.8	1601.0	1944.2	2231.3	2347.4
572.6	17.5°	590.9	664.6	861.1	1159.1	1533.0	1917.2	2245.9	2370.0
543.4	20°	546.3	566.8	701.9	1026.2	1469.5	1891.7	2260.5	2391.2
520.0	22.5°	520.0	525.1	574.1	854.5	1393.5	1883.6	2286.0	2420.4
498.8	25°	498.8	500.3	513.4	677.1	1277.4	1878.5	2325.5	2460.6
476.9	27.5°	477.7	477.7	485.0	545.6	1119.7	1856.6	2376.6	2508.8
455.0	30°	456.5	456.5	461.6	482.8	934.9	1813.5	2438.0	2571.6
433.1	32.5°	434.6	434.6	439.0	454.3	746.4	1759.5	2494.2	2635.2
410.5	35°	412.7	411.2	417.0	433.1	593.8	1690.8	2550.4	2703.8
387.8	37.5°	389.3	388.6	394.4	412.7	512.7	1611.2	2592.8	2797.3
365.2	40°	364.5	364.5	371.0	390.7	489.3	1511.1	2660.0	2931.7
341.8	42.5°	341.8	340.4	347.7	371.8	471.8	1415.5	2780.5	3127.4
320.6	45°	319.9	317.0	323.6	353.5	441.1	1381.9	3005.5	3416.7
300.2	47.5°	299.5	292.1	298.0	331.6	413.4	1507.5	3373.6	3817.6
281.9	50°	282.7	268.8	273.9	309.7	392.2	1779.9	3851.2	4350.1
265.1	52.5°	265.1	246.9	249.8	282.7	373.2	2039.2	4369.1	5052.7
248.3	55°	246.9	226.4	227.9	255.6	346.2	2077.9	4874.5	6010.9
229.3	57.5°	226.4	207.4	207.4	230.8	326.5	1801.1	5263.0	7200.0
206.0	60°	203.8	191.4	187.7	211.1	344.0	1270.8	5308.3	7966.8
176.0	62.5°	178.9	172.4	167.3	192.1	357.1	753.0	4943.9	7781.3
138.8	65°	150.5	149.0	145.3	211.1	300.9	444.8	4244.2	7212.4
118.3	67.5°	126.4	124.2	124.2	221.3	228.6	279.7	3315.9	6429.4
100.8	70°	108.8	100.8	100.8	167.3	138.8	193.5	2315.3	5584.4
83.3	72.5°	91.3	82.5	76.7	133.7	103.7	141.7	1446.9	4782.4
63.5	75°	73.0	66.5	59.2	88.4	77.4	107.4	840.7	3962.2
40.2	77.5°	52.6	49.7	41.6	65.0	56.2	77.4	500.3	3057.3
24.8	80°	27.0	27.8	26.3	37.2	38.0	52.6	284.8	2092.5
16.1	82.5°	16.1	12.4	13.9	18.3	21.9	29.9	107.4	1229.9
11.7	85°	10.2	6.6	6.6	8.8	11.0	11.7	32.9	498.8
5.8	87.5°	5.1	2.2	2.9	4.4	3.7	2.9	1.5	125.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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