

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: P947485

Luminaire Tested: **GALN-SB2D-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947485
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA 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: 13505 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

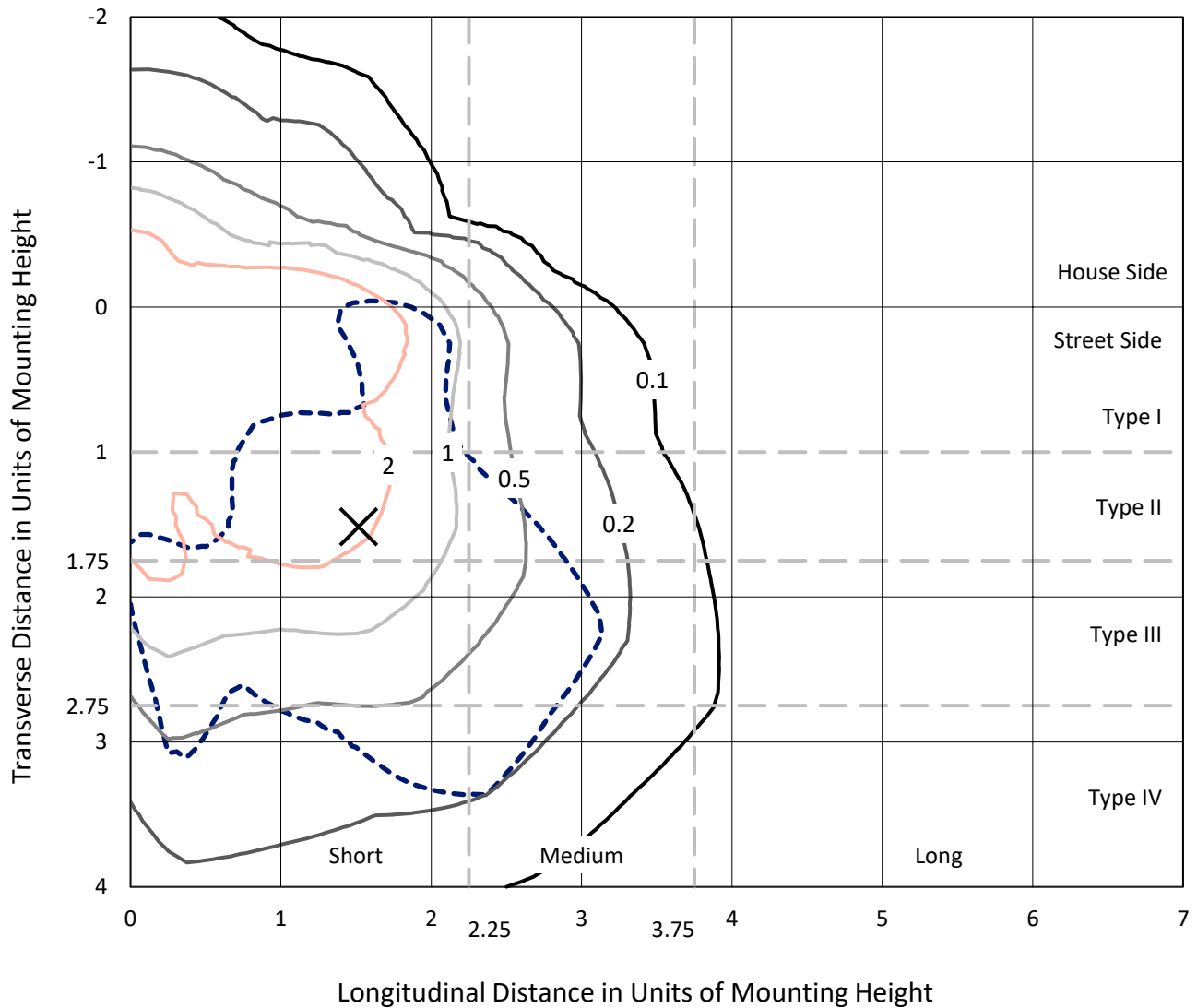
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

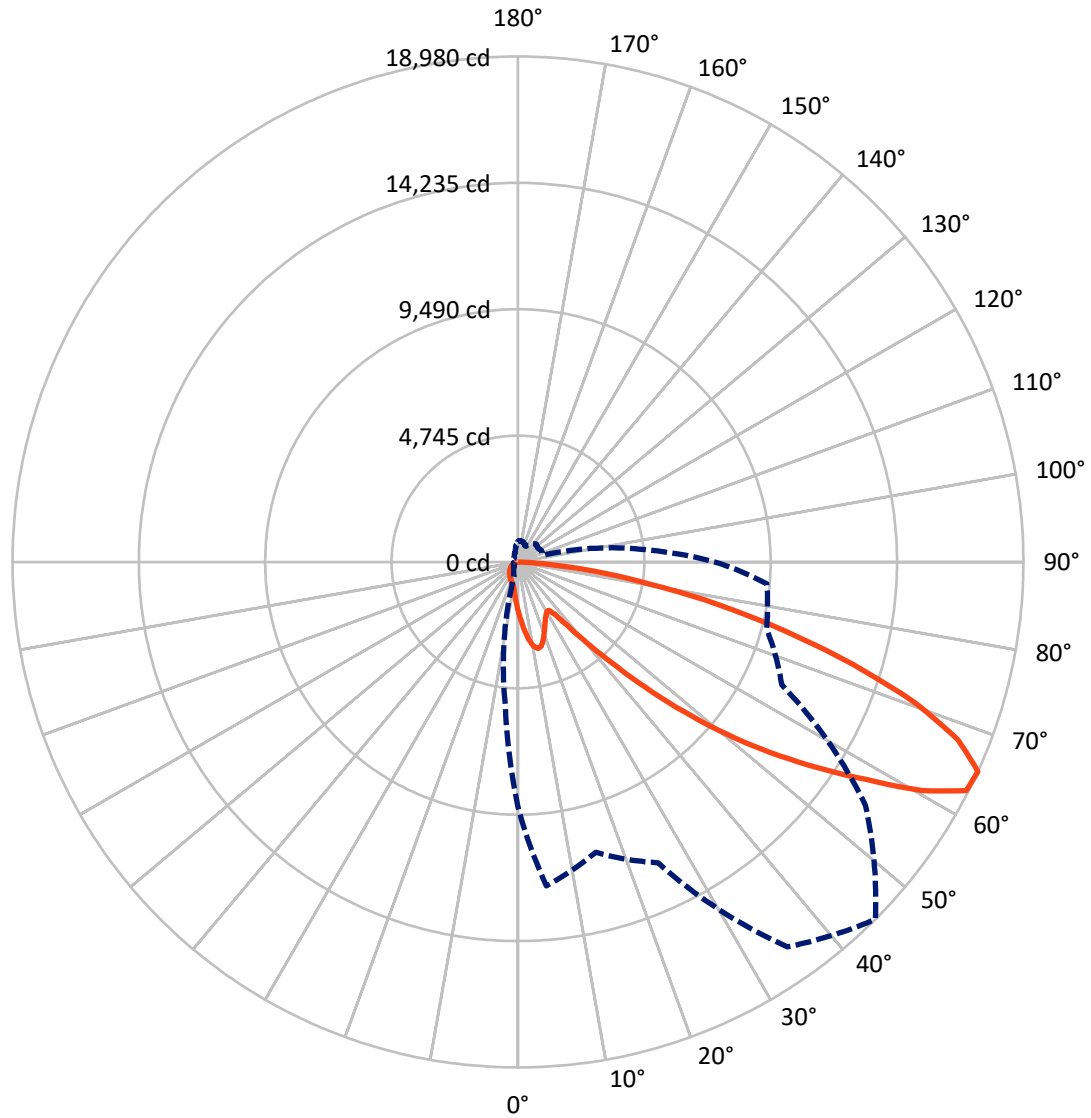
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	2684.4	0.0	2684.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	10820.6	0.0	10820.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	13505.0	0.0	13505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	1.4
10°-20°	551.9	4.1
20°-30°	813.1	6.0
30°-40°	1044.6	7.7
40°-50°	1689.4	12.5
50°-60°	2962.5	21.9
60°-70°	3706.9	27.4
70°-80°	2166.1	16.0
80°-90°	386.5	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°	13505.0	100.0
0°-180°	13505.0	100.0

Coefficient of Utilization



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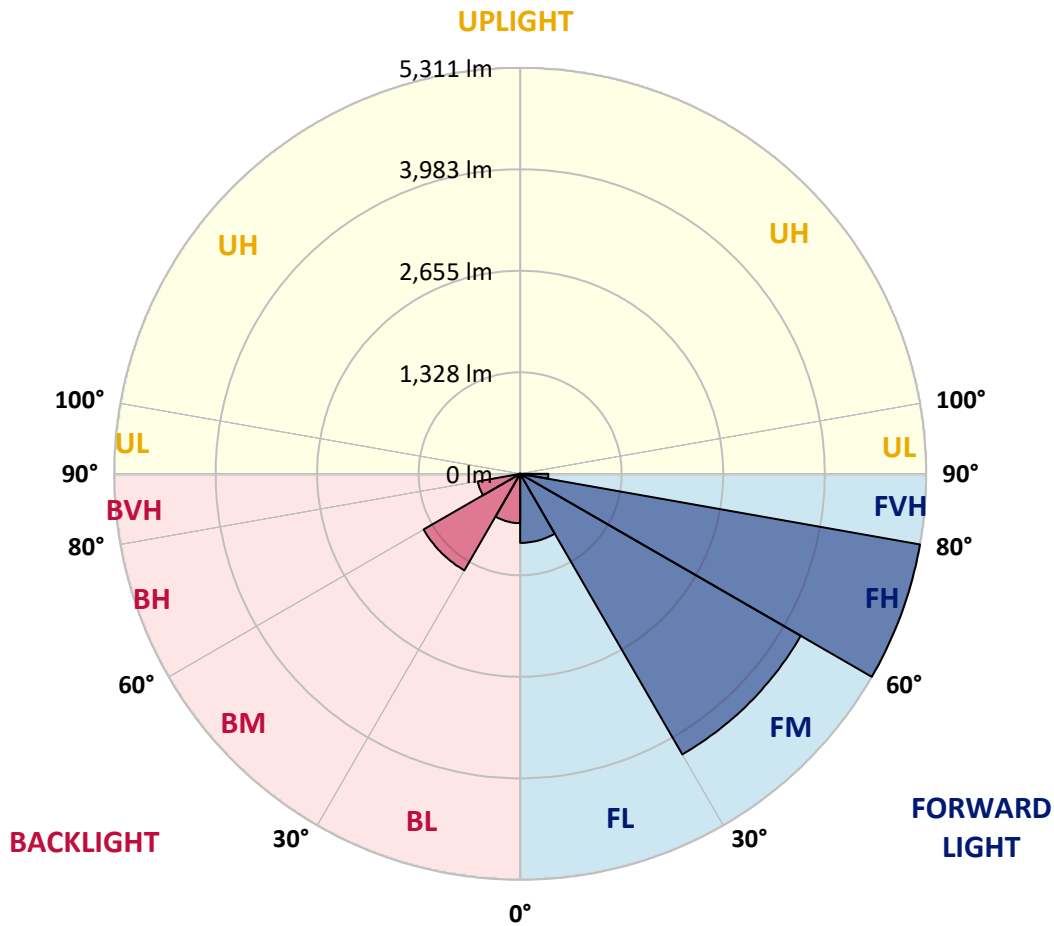
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.6	6.7			
FM (30°-60°)	4238.0	31.4			
FH (60°-80°)	5310.6	39.3			G3/7500
FVH (80°-90°)	368.4	2.7			G3/500
BL (0°-30°)	645.4	4.8	B2/1000		
BM (30°-60°)	1458.4	10.8	B2/2500		
BH (60°-80°)	562.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	18.1	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°	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0
2.5°	2095.2	2111.0	2146.3	2164.9	2193.8	2195.6	2195.6	2170.5	2169.6	2118.4
5°	2341.7	2378.9	2462.6	2549.2	2567.8	2572.4	2563.1	2512.9	2475.7	2376.1
7.5°	2586.4	2658.0	2785.5	2900.8	2938.1	2938.1	2915.7	2833.9	2757.6	2613.4
10°	2789.2	2879.4	3052.5	3181.8	3224.6	3215.3	3169.7	3066.4	2961.3	2786.4
12.5°	2923.2	3024.6	3214.4	3318.6	3362.3	3338.1	3286.0	3185.5	3074.8	2890.6
15°	2990.2	3096.2	3260.9	3315.8	3303.7	3278.6	3272.1	3223.7	3139.9	2967.8
17.5°	3019.0	3117.6	3232.0	3197.6	3095.3	3075.7	3140.9	3202.3	3181.8	3034.8
20°	3046.0	3128.8	3163.2	3010.6	2832.0	2814.3	2939.0	3113.9	3203.2	3097.1
22.5°	3083.2	3134.4	3063.7	2813.4	2620.8	2579.9	2717.6	2980.9	3209.7	3176.2
25°	3134.4	3148.3	2953.9	2626.4	2432.9	2391.9	2520.3	2832.9	3198.6	3261.8
27.5°	3195.8	3166.9	2848.7	2470.1	2283.1	2244.9	2373.3	2690.6	3166.9	3347.4
30°	3275.8	3191.1	2744.5	2349.1	2176.1	2148.2	2271.9	2567.8	3127.8	3456.3
32.5°	3356.7	3201.3	2647.8	2278.4	2151.9	2162.1	2263.5	2501.7	3085.1	3560.5
35°	3444.2	3233.9	2600.3	2348.2	2353.8	2443.1	2485.0	2563.1	3078.5	3701.9
37.5°	3563.3	3306.5	2657.1	2695.2	2888.7	3073.9	3039.5	2863.6	3153.9	3913.1
40°	3734.4	3433.9	2904.6	3286.0	3683.3	3983.8	3852.6	3409.7	3384.6	4217.3
42.5°	3983.8	3636.8	3343.7	4008.0	4681.5	5176.5	4824.8	4114.0	3788.4	4651.8
45°	4352.2	3965.2	3874.9	4769.9	5912.4	6692.0	5960.8	4864.8	4354.1	5309.5
47.5°	4863.0	4448.0	4372.7	5572.8	7408.4	8416.9	7220.5	5560.7	4997.9	6206.4
50°	5541.2	5098.3	4844.4	6451.1	9048.6	10175.3	8479.2	6232.4	5735.6	7302.3
52.5°	6436.2	6005.4	5394.2	7287.5	10735.3	11896.4	9743.6	6822.3	6651.1	8574.1
55°	7656.8	7370.3	6145.9	8085.7	12421.1	13627.8	10958.6	7378.6	7860.6	10085.0
57.5°	9171.4	9376.1	7229.8	9011.4	13936.7	15412.2	12179.3	8156.4	9431.0	11774.6
60°	10148.3	12043.4	9305.4	10380.0	15658.8	17430.2	13852.0	9635.7	11081.4	12380.2
62.5°	9912.0	12891.9	11791.3	12127.2	17242.2	18897.3	15491.3	11121.4	11392.2	11488.0
65°	9187.2	12207.2	11284.3	12466.7	17643.2	18980.1	15929.5	10929.8	9663.6	9378.9
67.5°	8189.9	11395.0	10079.4	11566.2	16918.5	17822.8	15113.6	9668.2	7467.9	7038.1
70°	7113.5	10496.2	9288.6	10555.8	15536.9	15805.8	13726.4	8503.4	5492.8	4753.2
72.5°	6092.0	9560.3	8747.2	9520.3	13693.9	13137.5	11920.6	7473.5	3999.6	3428.4
75°	5047.2	8179.7	7975.9	8290.4	11270.3	10348.3	9904.5	6187.8	3139.0	2480.3
77.5°	3894.5	6391.5	6860.4	6639.0	7933.1	7686.6	7677.3	4649.9	2293.3	1655.1
80°	2665.5	4454.5	5359.8	4683.4	5148.6	5023.0	5782.1	3119.5	1663.5	996.4
82.5°	1566.7	2712.0	3730.7	2267.3	2846.9	2922.2	3443.2	1517.4	978.7	229.8
85°	635.4	1070.8	1458.8	887.6	1373.2	1158.3	1307.1	426.1	272.6	5.6
87.5°	160.0	342.4	240.0	99.5	159.1	146.1	115.4	52.1	11.2	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°
1870.0	0°	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0
2112.8	2.5°	2076.5	2055.2	2002.1	1949.1	1906.3	1848.6	1810.5	1764.9	1721.2	1682.1
2354.7	5°	2296.1	2225.4	2128.6	2040.3	1950.0	1862.6	1776.0	1684.9	1601.1	1550.0
2559.4	7.5°	2474.7	2350.1	2221.7	2109.1	2000.3	1897.9	1783.5	1672.8	1541.6	1471.8
2715.7	10°	2607.8	2444.0	2275.6	2146.3	2036.5	1937.0	1840.2	1728.6	1570.4	1483.0
2810.6	12.5°	2695.2	2500.8	2303.6	2155.6	2032.8	1955.6	1912.8	1869.1	1711.9	1609.5
2880.4	15°	2755.7	2540.8	2323.1	2134.2	1983.5	1926.8	1969.6	2019.8	1919.3	1801.2
2952.9	17.5°	2821.8	2592.9	2331.5	2076.5	1887.7	1863.5	1974.2	2090.5	2085.9	1968.6
3021.8	20°	2891.5	2638.5	2325.9	1983.5	1771.4	1792.8	1934.2	2069.1	2125.9	2062.6
3100.9	22.5°	2963.2	2682.2	2304.5	1862.6	1662.5	1729.5	1870.9	1989.1	2056.1	2036.5
3197.6	25°	3053.4	2743.6	2272.9	1732.3	1572.3	1665.3	1797.4	1893.3	1939.8	1938.9
3301.8	27.5°	3161.3	2825.5	2256.1	1627.2	1508.1	1592.8	1710.0	1795.6	1828.1	1828.1
3431.1	30°	3286.9	2922.2	2237.5	1558.3	1470.9	1517.4	1608.6	1692.3	1724.9	1724.9
3572.6	32.5°	3426.5	3015.3	2192.8	1516.5	1443.0	1443.9	1501.6	1577.9	1617.0	1622.5
3749.3	35°	3594.0	3114.8	2095.2	1483.0	1410.4	1372.3	1400.2	1463.4	1510.0	1522.1
4001.5	37.5°	3813.5	3236.7	1955.6	1433.7	1360.2	1296.9	1303.4	1351.8	1403.0	1421.6
4349.4	40°	4108.4	3380.0	1810.5	1363.0	1289.5	1214.1	1211.3	1246.7	1296.9	1317.4
4820.2	42.5°	4498.3	3552.1	1671.8	1295.1	1203.9	1126.7	1122.0	1149.9	1193.6	1215.0
5441.6	45°	4996.9	3763.3	1552.8	1242.0	1120.1	1043.9	1042.0	1065.3	1103.4	1125.7
6237.1	47.5°	5690.0	3974.5	1471.8	1214.1	1054.1	975.9	979.7	1000.1	1034.6	1050.4
7267.0	50°	6593.4	4038.7	1430.9	1214.1	1018.7	915.5	934.1	950.8	976.9	986.2
8501.6	52.5°	7460.5	3826.5	1393.7	1221.6	1023.4	864.3	904.3	916.4	938.7	942.4
9645.9	55°	7885.7	3289.7	1342.5	1223.4	1052.2	820.6	880.1	902.4	910.8	909.9
10310.2	57.5°	7739.6	2659.9	1256.0	1216.0	1071.8	792.7	850.3	893.1	898.7	890.3
10183.6	60°	7227.0	1958.4	1189.9	1161.1	1064.3	784.3	804.8	872.7	881.0	869.9
9208.6	62.5°	6367.3	1359.2	1138.8	1040.1	1031.8	781.5	733.1	828.0	848.5	832.7
7401.9	65°	5012.7	960.1	980.6	911.7	961.1	766.6	658.7	774.1	802.0	777.8
5370.0	67.5°	3392.1	693.1	794.5	826.2	846.6	733.1	604.7	712.7	749.9	718.2
3446.0	70°	1831.9	486.6	524.7	695.9	719.2	675.4	556.4	650.3	693.1	658.7
2449.6	72.5°	1082.0	349.8	367.5	559.1	599.1	594.5	502.4	577.7	629.8	588.9
1690.5	75°	596.4	236.3	262.4	405.6	486.6	458.7	431.7	489.4	542.4	502.4
1059.7	77.5°	267.0	141.4	182.3	266.1	382.4	314.5	334.0	381.4	430.8	388.9
589.8	80°	103.3	79.1	120.9	145.1	278.2	174.0	214.9	281.0	316.3	282.8
128.4	82.5°	13.0	35.4	52.1	56.8	161.9	92.1	124.7	176.8	174.0	150.7
0.0	85°	0.0	6.5	7.4	3.7	69.8	33.5	40.9	57.7	54.0	40.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°
1870.0	0°	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0
1674.6	2.5°	1629.0	1595.6	1578.8	1564.9	1577.9	1585.3	1585.3	1617.0	1635.6	1643.0
1517.4	5°	1435.5	1373.2	1331.3	1306.2	1314.6	1323.9	1334.1	1374.1	1401.1	1418.8
1408.6	7.5°	1283.0	1188.1	1129.4	1098.7	1103.4	1109.9	1118.3	1157.4	1184.3	1207.6
1388.1	10°	1207.6	1073.6	996.4	959.2	952.7	949.0	946.2	969.4	989.9	1008.5
1471.8	12.5°	1211.3	1024.3	930.4	884.8	865.2	842.9	825.2	828.9	842.0	865.2
1621.6	15°	1258.8	1008.5	895.9	839.2	806.6	780.6	759.2	754.5	759.2	762.9
1792.8	17.5°	1323.0	1006.6	866.2	795.5	762.0	740.6	721.0	714.5	715.4	720.1
1906.3	20°	1374.1	1001.1	832.7	753.6	723.8	705.2	685.7	679.2	681.0	681.9
1917.5	22.5°	1401.1	992.7	795.5	711.7	686.6	668.0	650.3	649.4	649.4	655.0
1857.0	25°	1401.1	975.0	762.0	671.7	649.4	632.6	611.2	615.0	616.8	624.3
1763.0	27.5°	1367.6	941.5	735.0	637.3	614.0	597.3	577.7	582.4	585.2	593.6
1670.0	30°	1324.8	901.5	704.3	604.7	577.7	565.7	548.9	550.8	554.5	563.8
1583.5	32.5°	1279.2	854.1	679.2	572.2	545.2	535.9	517.3	520.1	523.8	534.0
1497.9	35°	1229.0	798.2	649.4	542.4	515.4	508.0	486.6	488.4	494.0	505.2
1405.8	37.5°	1176.0	752.7	619.6	513.6	485.6	478.2	455.9	457.7	464.2	477.3
1309.0	40°	1123.9	708.0	588.0	482.9	454.9	448.4	424.2	426.1	433.5	447.5
1211.3	42.5°	1067.1	673.6	547.0	451.2	421.5	414.9	392.6	395.4	403.8	417.7
1121.1	45°	999.2	651.2	501.5	421.5	388.0	381.4	361.0	366.6	375.9	389.8
1043.9	47.5°	929.4	641.9	463.3	389.8	353.5	348.0	331.2	340.5	350.7	361.9
977.8	50°	862.4	629.8	424.2	360.0	323.8	318.2	307.0	319.1	329.3	339.6
930.4	52.5°	786.1	603.8	388.9	334.0	298.6	296.8	291.2	302.4	311.7	321.0
889.4	55°	707.1	561.9	358.2	310.7	277.2	279.1	276.3	285.6	293.1	301.4
852.2	57.5°	638.2	508.9	334.0	285.6	258.6	264.2	260.5	265.2	269.8	280.0
807.5	60°	568.4	445.6	307.0	255.8	240.0	246.5	236.3	235.4	237.2	240.0
741.5	62.5°	474.5	379.6	273.5	229.8	219.6	222.4	202.8	187.9	187.9	190.7
649.4	65°	381.4	318.2	236.3	200.0	191.7	189.8	161.9	141.4	139.6	147.9
542.4	67.5°	313.5	264.2	199.1	166.5	161.0	162.8	142.3	121.9	120.0	129.3
441.9	70°	259.6	213.1	159.1	128.4	134.0	142.3	121.9	102.3	99.5	107.9
359.1	72.5°	206.5	166.5	121.9	94.9	110.7	120.9	99.5	80.9	79.1	86.5
277.2	75°	151.6	119.1	82.8	68.8	85.6	94.9	72.6	57.7	54.9	61.4
185.1	77.5°	94.0	67.0	52.1	40.9	58.6	63.3	38.1	33.5	32.6	37.2
112.6	80°	43.7	28.8	25.1	14.0	21.4	25.1	15.8	17.7	18.6	22.3
56.8	82.5°	12.1	4.7	0.9	0.0	0.0	7.4	3.7	7.4	9.3	14.0
4.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.7	8.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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°
1870.0	0°	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0	1870.0
1695.1	2.5°	1734.2	1771.4	1830.9	1892.3	1952.8	2014.2	2073.8	2095.2
1499.7	5°	1573.2	1658.8	1777.0	1903.5	2033.8	2165.9	2286.8	2341.7
1297.8	7.5°	1393.7	1516.5	1694.2	1892.3	2099.8	2307.3	2498.0	2586.4
1097.8	10°	1202.0	1357.4	1560.2	1828.1	2125.9	2412.4	2674.8	2789.2
922.0	12.5°	1019.7	1182.5	1406.7	1727.7	2105.4	2472.9	2788.3	2923.2
798.2	15°	867.1	1011.3	1253.2	1608.6	2039.3	2476.6	2842.2	2990.2
729.4	17.5°	752.7	846.6	1096.9	1476.5	1952.8	2442.2	2860.8	3019.0
692.2	20°	695.9	722.0	894.1	1307.1	1871.9	2409.6	2879.4	3046.0
662.4	22.5°	662.4	668.9	731.3	1088.5	1775.1	2399.4	2912.0	3083.2
635.4	25°	635.4	637.3	654.0	862.4	1627.2	2392.9	2962.2	3134.4
607.5	27.5°	608.5	608.5	617.8	695.0	1426.2	2365.0	3027.4	3195.8
579.6	30°	581.5	581.5	588.0	615.0	1190.9	2310.1	3105.5	3275.8
551.7	32.5°	553.6	553.6	559.1	578.7	950.8	2241.2	3177.2	3356.7
522.9	35°	525.6	523.8	531.2	551.7	756.4	2153.8	3248.8	3444.2
494.0	37.5°	495.9	494.9	502.4	525.6	653.1	2052.4	3302.8	3563.3
465.2	40°	464.2	464.2	472.6	497.7	623.3	1924.9	3388.3	3734.4
435.4	42.5°	435.4	433.5	442.8	473.5	601.0	1803.0	3541.9	3983.8
408.4	45°	407.5	403.8	412.1	450.3	561.9	1760.2	3828.4	4352.2
382.4	47.5°	381.4	372.1	379.6	422.4	526.6	1920.2	4297.3	4863.0
359.1	50°	360.0	342.4	348.9	394.5	499.6	2267.3	4905.8	5541.2
337.7	52.5°	337.7	314.5	318.2	360.0	475.4	2597.5	5565.4	6436.2
316.3	55°	314.5	288.4	290.3	325.6	441.0	2646.9	6209.2	7656.8
292.1	57.5°	288.4	264.2	264.2	294.0	415.9	2294.3	6704.1	9171.4
262.4	60°	259.6	243.8	239.1	268.9	438.2	1618.8	6761.8	10148.3
224.2	62.5°	227.9	219.6	213.1	244.7	454.9	959.2	6297.6	9912.0
176.8	65°	191.7	189.8	185.1	268.9	383.3	566.6	5406.3	9187.2
150.7	67.5°	161.0	158.2	158.2	281.9	291.2	356.3	4223.8	8189.9
128.4	70°	138.6	128.4	128.4	213.1	176.8	246.5	2949.2	7113.5
106.1	72.5°	116.3	105.1	97.7	170.3	132.1	180.5	1843.0	6092.0
80.9	75°	93.0	84.7	75.4	112.6	98.6	136.8	1070.8	5047.2
51.2	77.5°	67.0	63.3	53.0	82.8	71.6	98.6	637.3	3894.5
31.6	80°	34.4	35.4	33.5	47.4	48.4	67.0	362.8	2665.5
20.5	82.5°	20.5	15.8	17.7	23.3	27.9	38.1	136.8	1566.7
14.9	85°	13.0	8.4	8.4	11.2	14.0	14.9	41.9	635.4
7.4	87.5°	6.5	2.8	3.7	5.6	4.7	3.7	1.9	160.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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