

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: P947926

Luminaire Tested: **GALN-SB3A-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947926
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-SB3A-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA 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: 9825 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

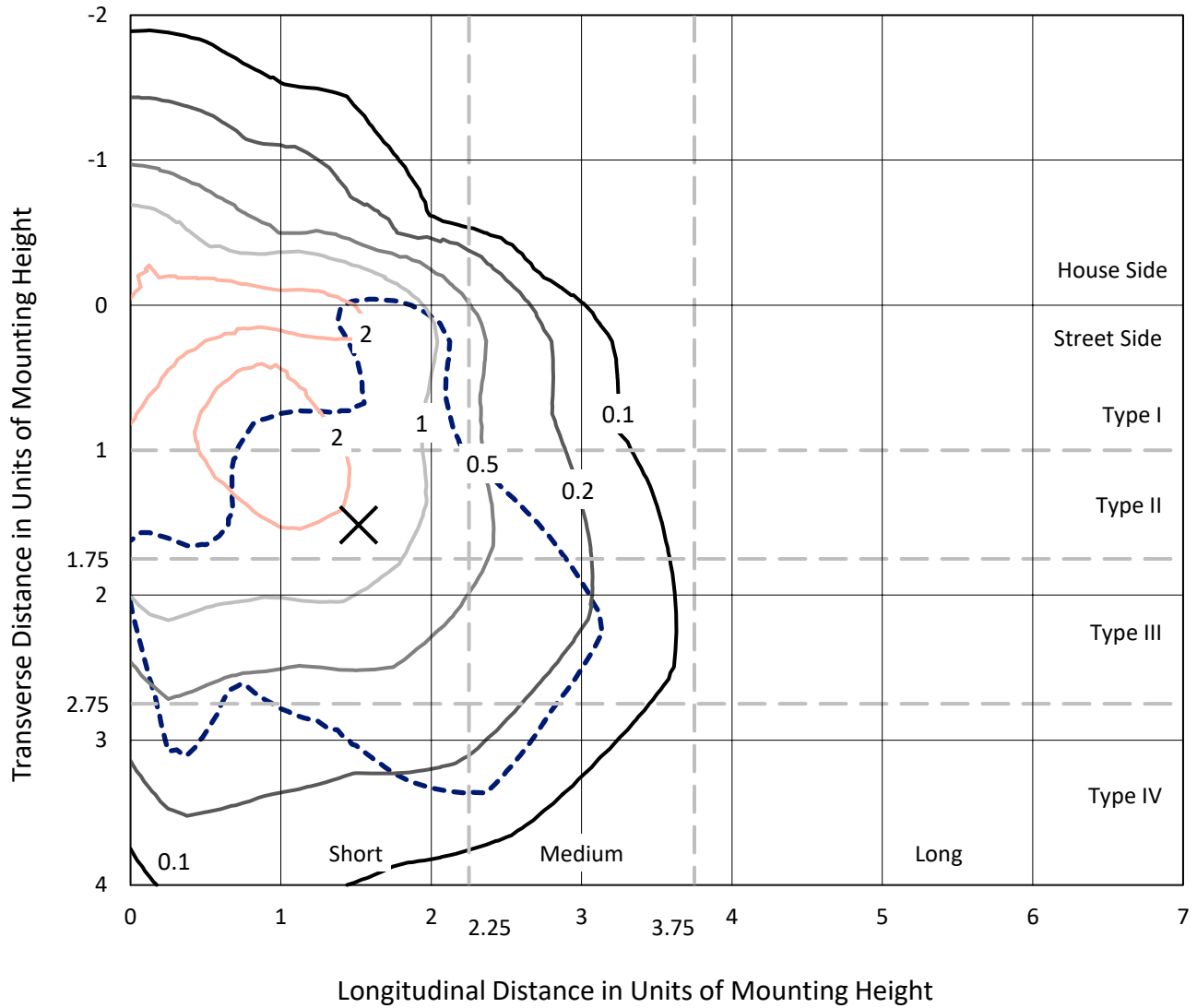
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

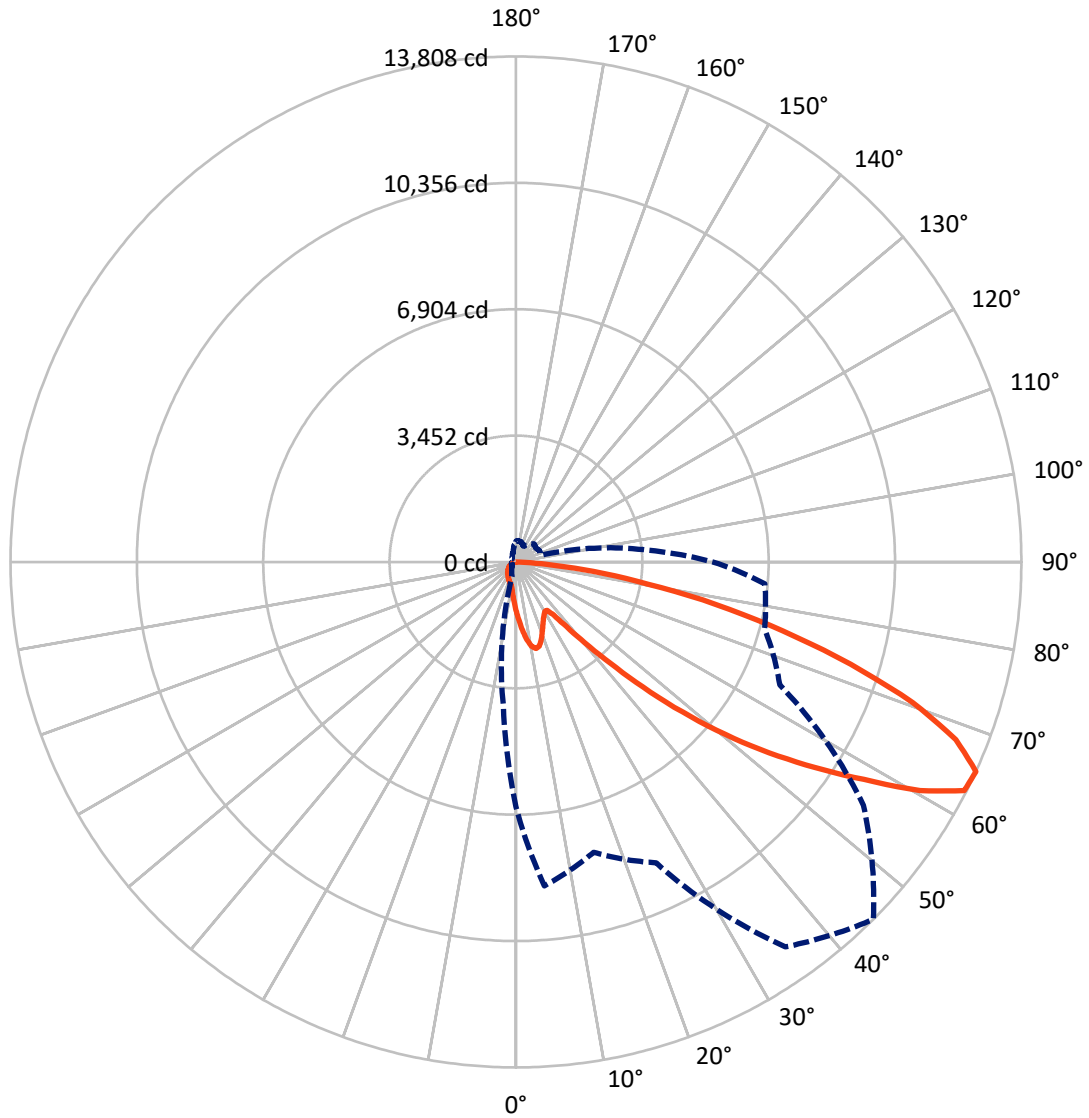
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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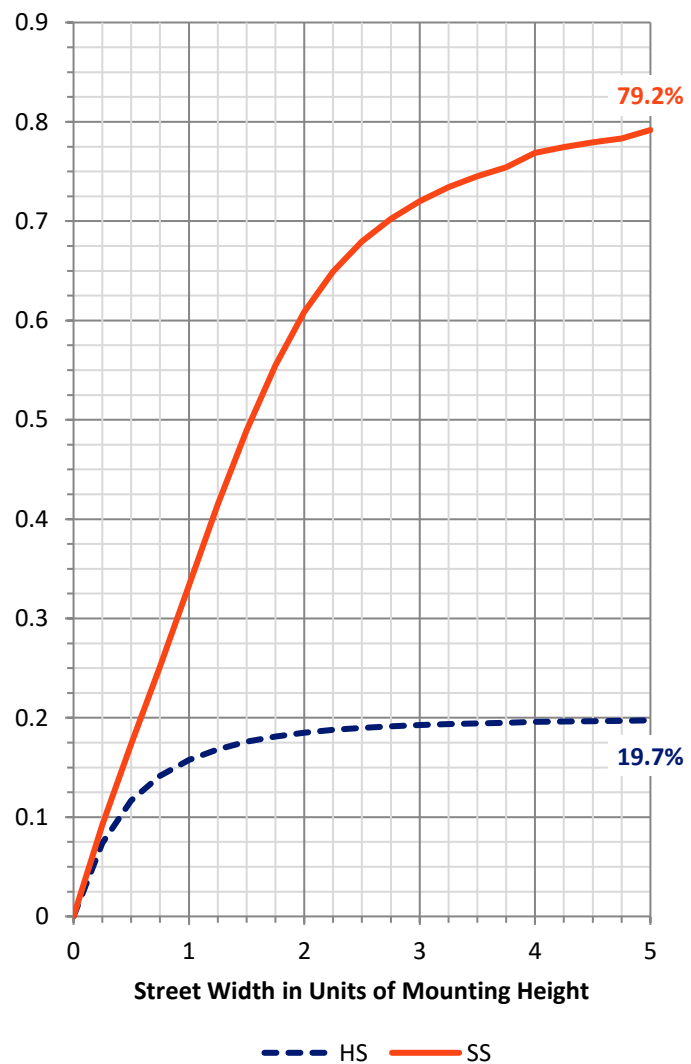
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1952.9	0.0	1952.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	7872.1	0.0	7872.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	9825.0	0.0	9825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	1.4
10°-20°	401.5	4.1
20°-30°	591.5	6.0
30°-40°	759.9	7.7
40°-50°	1229.0	12.5
50°-60°	2155.2	21.9
60°-70°	2696.8	27.4
70°-80°	1575.9	16.0
80°-90°	281.2	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°	9825.0	100.0
0°-180°	9825.0	100.0

Coefficient of Utilization



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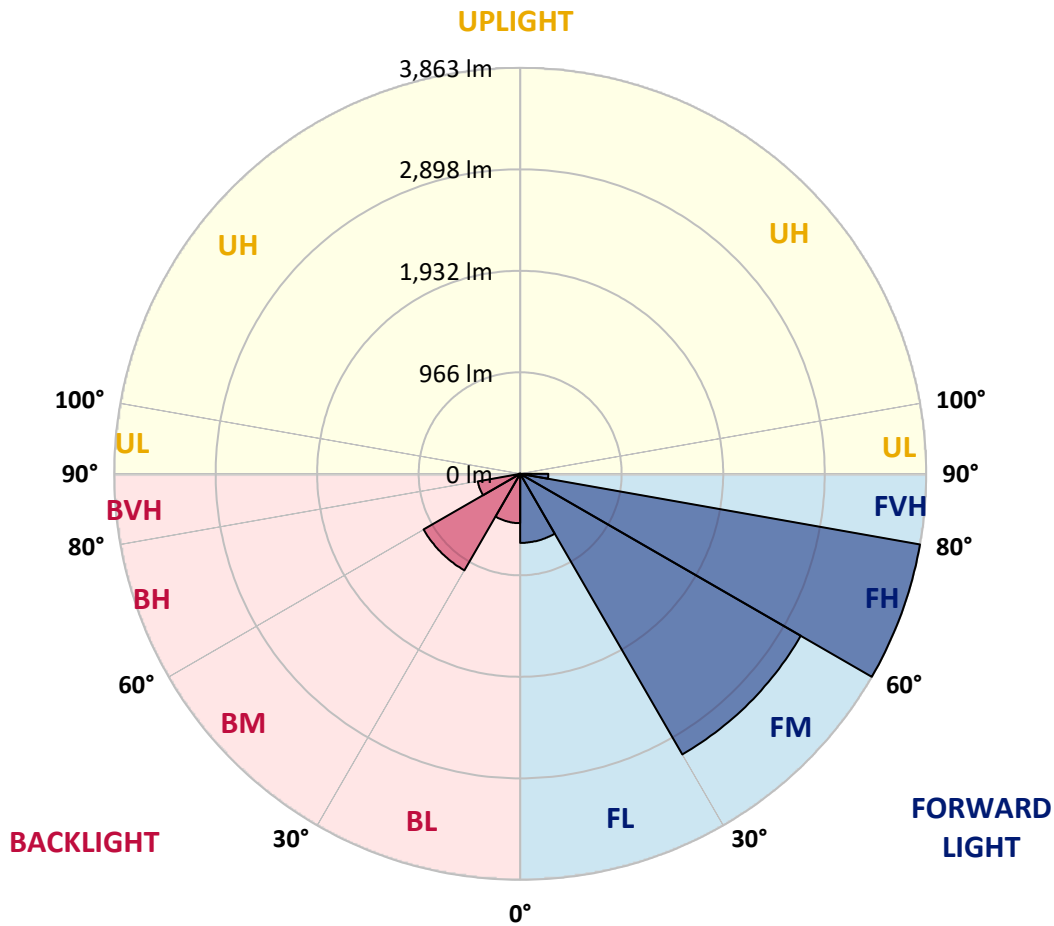
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.4	6.7			
FM (30°-60°)	3083.2	31.4			
FH (60°-80°)	3863.5	39.3			G2/5000
FVH (80°-90°)	268.0	2.7			G3/500
BL (0°-30°)	469.6	4.8	B1/500		
BM (30°-60°)	1061.0	10.8	B2/2500		
BH (60°-80°)	409.2	4.2	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: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
2.5°	1524.2	1535.7	1561.5	1575.0	1596.0	1597.3	1597.3	1579.1	1578.4	1541.2
5°	1703.6	1730.7	1791.6	1854.5	1868.1	1871.5	1864.7	1828.1	1801.1	1728.6
7.5°	1881.6	1933.7	2026.5	2110.4	2137.5	2137.5	2121.2	2061.7	2006.2	1901.2
10°	2029.2	2094.8	2220.7	2314.8	2345.9	2339.2	2306.0	2230.9	2154.4	2027.1
12.5°	2126.6	2200.4	2338.5	2414.3	2446.1	2428.5	2390.6	2317.5	2237.0	2102.9
15°	2175.4	2252.5	2372.3	2412.3	2403.5	2385.2	2380.4	2345.3	2284.3	2159.1
17.5°	2196.3	2268.1	2351.3	2326.3	2251.8	2237.6	2285.0	2329.7	2314.8	2207.9
20°	2216.0	2276.2	2301.3	2190.3	2060.3	2047.4	2138.1	2265.4	2330.4	2253.2
22.5°	2243.0	2280.3	2228.8	2046.8	1906.7	1876.9	1977.0	2168.6	2335.1	2310.7
25°	2280.3	2290.4	2149.0	1910.7	1769.9	1740.2	1833.6	2061.0	2327.0	2373.0
27.5°	2324.9	2304.0	2072.5	1797.0	1661.0	1633.2	1726.6	1957.4	2304.0	2435.3
30°	2383.2	2321.6	1996.7	1709.0	1583.1	1562.8	1652.8	1868.1	2275.5	2514.5
32.5°	2442.0	2329.0	1926.3	1657.6	1565.5	1573.0	1646.8	1820.0	2244.4	2590.3
35°	2505.7	2352.7	1891.8	1708.3	1712.4	1777.4	1807.8	1864.7	2239.7	2693.1
37.5°	2592.3	2405.5	1933.1	1960.8	2101.6	2236.3	2211.2	2083.3	2294.5	2846.8
40°	2716.8	2498.2	2113.1	2390.6	2679.6	2898.2	2802.8	2480.6	2462.3	3068.1
42.5°	2898.2	2645.8	2432.6	2915.8	3405.9	3765.9	3510.1	2993.0	2756.1	3384.2
45°	3166.3	2884.7	2819.0	3470.2	4301.3	4868.5	4336.5	3539.2	3167.6	3862.7
47.5°	3537.8	3236.0	3181.1	4054.3	5389.7	6123.4	5253.0	4045.5	3636.0	4515.2
50°	4031.3	3709.1	3524.3	4693.2	6582.9	7402.6	6168.7	4534.2	4172.7	5312.5
52.5°	4682.4	4369.0	3924.3	5301.7	7810.1	8654.8	7088.5	4963.3	4838.7	6237.8
55°	5570.4	5361.9	4471.2	5882.4	9036.5	9914.4	7972.5	5368.0	5718.6	7336.9
57.5°	6672.3	6821.2	5259.7	6555.9	10139.1	11212.5	8860.5	5933.9	6861.1	8566.1
60°	7383.0	8761.7	6769.8	7551.5	11391.9	12680.6	10077.5	7010.0	8061.8	9006.7
62.5°	7211.1	9379.0	8578.3	8822.6	12543.9	13748.0	11270.1	8090.9	8287.9	8357.6
65°	6683.8	8880.8	8209.4	9069.7	12835.6	13808.2	11588.9	7951.5	7030.3	6823.2
67.5°	5958.2	8289.9	7332.9	8414.5	12308.3	12966.2	10995.3	7033.7	5433.0	5120.3
70°	5175.1	7636.1	6757.6	7679.4	11303.2	11498.8	9986.1	6186.3	3996.1	3458.0
72.5°	4431.9	6955.2	6363.6	6926.1	9962.4	9557.7	8672.3	5437.1	2909.7	2494.2
75°	3671.9	5950.8	5802.5	6031.3	8199.2	7528.5	7205.6	4501.7	2283.7	1804.5
77.5°	2833.3	4649.9	4991.0	4829.9	5771.4	5592.1	5585.3	3382.8	1668.4	1204.1
80°	1939.1	3240.7	3899.3	3407.2	3745.6	3654.3	4206.6	2269.4	1210.2	724.9
82.5°	1139.8	1973.0	2714.1	1649.5	2071.1	2126.0	2505.0	1103.9	712.0	167.2
85°	462.3	779.0	1061.3	645.7	999.0	842.7	951.0	310.0	198.3	4.1
87.5°	116.4	249.1	174.6	72.4	115.7	106.3	83.9	37.9	8.1	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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1537.1	2.5°	1510.7	1495.1	1456.6	1418.0	1386.8	1344.9	1317.1	1284.0	1252.2	1223.7
1713.1	5°	1670.4	1619.0	1548.6	1484.3	1418.7	1355.0	1292.1	1225.8	1164.8	1127.6
1862.0	7.5°	1800.4	1709.7	1616.3	1534.4	1455.2	1380.8	1297.5	1217.0	1121.5	1070.8
1975.7	10°	1897.2	1778.1	1655.6	1561.5	1481.6	1409.2	1338.8	1257.6	1142.5	1078.9
2044.7	12.5°	1960.8	1819.3	1675.9	1568.2	1478.9	1422.7	1391.6	1359.8	1245.4	1170.9
2095.5	15°	2004.8	1848.4	1690.1	1552.7	1443.0	1401.7	1432.9	1469.4	1396.3	1310.4
2148.3	17.5°	2052.9	1886.4	1696.2	1510.7	1373.3	1355.7	1436.3	1520.9	1517.5	1432.2
2198.4	20°	2103.6	1919.5	1692.1	1443.0	1288.7	1304.3	1407.2	1505.3	1546.6	1500.6
2255.9	22.5°	2155.7	1951.3	1676.5	1355.0	1209.5	1258.2	1361.1	1447.1	1495.8	1481.6
2326.3	25°	2221.4	1996.0	1653.5	1260.3	1143.9	1211.5	1307.7	1377.4	1411.2	1410.5
2402.1	27.5°	2299.9	2055.6	1641.3	1183.8	1097.2	1158.7	1244.0	1306.3	1330.0	1330.0
2496.2	30°	2391.3	2126.0	1627.8	1133.7	1070.1	1103.9	1170.3	1231.2	1254.9	1254.9
2599.1	32.5°	2492.8	2193.6	1595.3	1103.2	1049.8	1050.5	1092.4	1147.9	1176.3	1180.4
2727.7	35°	2614.6	2266.1	1524.2	1078.9	1026.1	998.3	1018.6	1064.7	1098.5	1107.3
2911.1	37.5°	2774.4	2354.7	1422.7	1043.0	989.5	943.5	948.3	983.4	1020.7	1034.2
3164.2	40°	2988.9	2459.0	1317.1	991.6	938.1	883.3	881.2	907.0	943.5	958.4
3506.7	42.5°	3272.5	2584.2	1216.3	942.2	875.8	819.7	816.3	836.6	868.4	884.0
3958.8	45°	3635.3	2737.8	1129.6	903.6	814.9	759.4	758.1	775.0	802.7	819.0
4537.5	47.5°	4139.6	2891.5	1070.8	883.3	766.9	710.0	712.7	727.6	752.6	764.2
5286.8	50°	4796.8	2938.2	1041.0	883.3	741.1	666.0	679.5	691.7	710.7	717.5
6185.0	52.5°	5427.6	2783.8	1013.9	888.7	744.5	628.8	657.9	666.7	682.9	685.6
7017.5	55°	5736.9	2393.3	976.7	890.0	765.5	597.0	640.3	656.5	662.6	661.9
7500.7	57.5°	5630.6	1935.1	913.7	884.6	779.7	576.7	618.6	649.8	653.8	647.7
7408.7	60°	5257.7	1424.7	865.7	844.7	774.3	570.6	585.5	634.9	641.0	632.8
6699.4	62.5°	4632.3	988.9	828.5	756.7	750.6	568.5	533.3	602.4	617.3	605.8
5384.9	65°	3646.8	698.5	713.4	663.3	699.2	557.7	479.2	563.1	583.4	565.8
3906.7	67.5°	2467.8	504.2	578.0	601.0	615.9	533.3	439.9	518.5	545.5	522.5
2507.0	70°	1332.7	354.0	381.7	506.3	523.2	491.4	404.8	473.1	504.2	479.2
1782.1	72.5°	787.2	254.5	267.4	406.8	435.9	432.5	365.5	420.3	458.2	428.4
1229.8	75°	433.9	171.9	190.9	295.1	354.0	333.7	314.1	356.0	394.6	365.5
770.9	77.5°	194.3	102.9	132.7	193.6	278.2	228.8	243.0	277.5	313.4	282.9
429.1	80°	75.1	57.5	88.0	105.6	202.4	126.6	156.4	204.4	230.1	205.8
93.4	82.5°	9.5	25.7	37.9	41.3	117.8	67.0	90.7	128.6	126.6	109.6
0.0	85°	0.0	4.7	5.4	2.7	50.8	24.4	29.8	42.0	39.3	29.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1218.3	2.5°	1185.1	1160.8	1148.6	1138.4	1147.9	1153.3	1153.3	1176.3	1189.9	1195.3
1103.9	5°	1044.4	999.0	968.6	950.3	956.4	963.1	970.6	999.7	1019.3	1032.2
1024.7	7.5°	933.4	864.3	821.7	799.3	802.7	807.5	813.6	842.0	861.6	878.5
1009.8	10°	878.5	781.1	724.9	697.8	693.1	690.4	688.3	705.3	720.2	733.7
1070.8	12.5°	881.2	745.2	676.8	643.7	629.5	613.2	600.4	603.1	612.5	629.5
1179.7	15°	915.8	733.7	651.8	610.5	586.8	567.9	552.3	548.9	552.3	555.0
1304.3	17.5°	962.5	732.3	630.1	578.7	554.3	538.8	524.6	519.8	520.5	523.9
1386.8	20°	999.7	728.3	605.8	548.2	526.6	513.0	498.8	494.1	495.4	496.1
1395.0	22.5°	1019.3	722.2	578.7	517.8	499.5	486.0	473.1	472.4	472.4	476.5
1351.0	25°	1019.3	709.3	554.3	488.7	472.4	460.3	444.7	447.4	448.7	454.2
1282.6	27.5°	995.0	685.0	534.7	463.6	446.7	434.5	420.3	423.7	425.7	431.8
1214.9	30°	963.8	655.9	512.4	439.9	420.3	411.5	399.3	400.7	403.4	410.2
1152.0	32.5°	930.7	621.3	494.1	416.3	396.6	389.9	376.3	378.4	381.1	388.5
1089.7	35°	894.1	580.7	472.4	394.6	375.0	369.6	354.0	355.3	359.4	367.5
1022.7	37.5°	855.5	547.6	450.8	373.6	353.3	347.9	331.7	333.0	337.7	347.2
952.3	40°	817.6	515.1	427.8	351.3	331.0	326.2	308.6	310.0	315.4	325.6
881.2	42.5°	776.3	490.0	398.0	328.3	306.6	301.9	285.6	287.7	293.7	303.9
815.6	45°	726.9	473.8	364.8	306.6	282.2	277.5	262.6	266.7	273.4	283.6
759.4	47.5°	676.2	467.0	337.1	283.6	257.2	253.1	241.0	247.7	255.2	263.3
711.4	50°	627.4	458.2	308.6	261.9	235.5	231.5	223.4	232.2	239.6	247.0
676.8	52.5°	571.9	439.3	282.9	243.0	217.3	215.9	211.9	220.0	226.7	233.5
647.1	55°	514.4	408.8	260.6	226.1	201.7	203.1	201.0	207.8	213.2	219.3
620.0	57.5°	464.3	370.2	243.0	207.8	188.2	192.2	189.5	192.9	196.3	203.7
587.5	60°	413.5	324.2	223.4	186.1	174.6	179.4	171.9	171.2	172.6	174.6
539.4	62.5°	345.2	276.2	199.0	167.2	159.7	161.8	147.6	136.7	136.7	138.8
472.4	65°	277.5	231.5	171.9	145.5	139.4	138.1	117.8	102.9	101.5	107.6
394.6	67.5°	228.1	192.2	144.8	121.2	117.1	118.4	103.6	88.7	87.3	94.1
321.5	70°	188.8	155.0	115.7	93.4	97.5	103.6	88.7	74.5	72.4	78.5
261.3	72.5°	150.3	121.2	88.7	69.0	80.5	88.0	72.4	58.9	57.5	62.9
201.7	75°	110.3	86.6	60.2	50.1	62.3	69.0	52.8	42.0	39.9	44.7
134.7	77.5°	68.4	48.7	37.9	29.8	42.6	46.0	27.8	24.4	23.7	27.1
81.9	80°	31.8	21.0	18.3	10.2	15.6	18.3	11.5	12.9	13.5	16.2
41.3	82.5°	8.8	3.4	0.7	0.0	0.0	5.4	2.7	5.4	6.8	10.2
3.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4	6.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°
1360.4	0°	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4	1360.4
1233.2	2.5°	1261.6	1288.7	1332.0	1376.7	1420.7	1465.4	1508.7	1524.2
1091.1	5°	1144.5	1206.8	1292.8	1384.8	1479.6	1575.7	1663.7	1703.6
944.2	7.5°	1013.9	1103.2	1232.5	1376.7	1527.6	1678.6	1817.3	1881.6
798.7	10°	874.5	987.5	1135.1	1330.0	1546.6	1755.0	1945.9	2029.2
670.7	12.5°	741.8	860.3	1023.4	1256.9	1531.7	1799.0	2028.5	2126.6
580.7	15°	630.8	735.7	911.7	1170.3	1483.6	1801.7	2067.7	2175.4
530.6	17.5°	547.6	615.9	798.0	1074.1	1420.7	1776.7	2081.3	2196.3
503.6	20°	506.3	525.2	650.4	951.0	1361.8	1753.0	2094.8	2216.0
481.9	22.5°	481.9	486.6	532.0	791.9	1291.4	1745.6	2118.5	2243.0
462.3	25°	462.3	463.6	475.8	627.4	1183.8	1740.8	2155.1	2280.3
442.0	27.5°	442.7	442.7	449.4	505.6	1037.6	1720.5	2202.4	2324.9
421.7	30°	423.0	423.0	427.8	447.4	866.4	1680.6	2259.3	2383.2
401.4	32.5°	402.7	402.7	406.8	421.0	691.7	1630.5	2311.4	2442.0
380.4	35°	382.4	381.1	386.5	401.4	550.3	1566.9	2363.5	2505.7
359.4	37.5°	360.8	360.1	365.5	382.4	475.1	1493.1	2402.8	2592.3
338.4	40°	337.7	337.7	343.8	362.1	453.5	1400.4	2465.1	2716.8
316.8	42.5°	316.8	315.4	322.2	344.5	437.2	1311.7	2576.7	2898.2
297.1	45°	296.5	293.7	299.8	327.6	408.8	1280.6	2785.2	3166.3
278.2	47.5°	277.5	270.7	276.2	307.3	383.1	1397.0	3126.3	3537.8
261.3	50°	261.9	249.1	253.8	287.0	363.5	1649.5	3569.0	4031.3
245.7	52.5°	245.7	228.8	231.5	261.9	345.9	1889.7	4048.9	4682.4
230.1	55°	228.8	209.8	211.2	236.9	320.8	1925.6	4517.2	5570.4
212.5	57.5°	209.8	192.2	192.2	213.9	302.5	1669.1	4877.3	6672.3
190.9	60°	188.8	177.3	173.9	195.6	318.8	1177.7	4919.3	7383.0
163.1	62.5°	165.8	159.7	155.0	178.0	331.0	697.8	4581.5	7211.1
128.6	65°	139.4	138.1	134.7	195.6	278.9	412.2	3933.1	6683.8
109.6	67.5°	117.1	115.1	115.1	205.1	211.9	259.2	3072.9	5958.2
93.4	70°	100.8	93.4	93.4	155.0	128.6	179.4	2145.6	5175.1
77.2	72.5°	84.6	76.5	71.1	123.9	96.1	131.3	1340.8	4431.9
58.9	75°	67.7	61.6	54.8	81.9	71.7	99.5	779.0	3671.9
37.2	77.5°	48.7	46.0	38.6	60.2	52.1	71.7	463.6	2833.3
23.0	80°	25.0	25.7	24.4	34.5	35.2	48.7	264.0	1939.1
14.9	82.5°	14.9	11.5	12.9	16.9	20.3	27.8	99.5	1139.8
10.8	85°	9.5	6.1	6.1	8.1	10.2	10.8	30.5	462.3
5.4	87.5°	4.7	2.0	2.7	4.1	3.4	2.7	1.4	116.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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