

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: P947128

Luminaire Tested: **GALN-SB2C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947128
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 9939 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

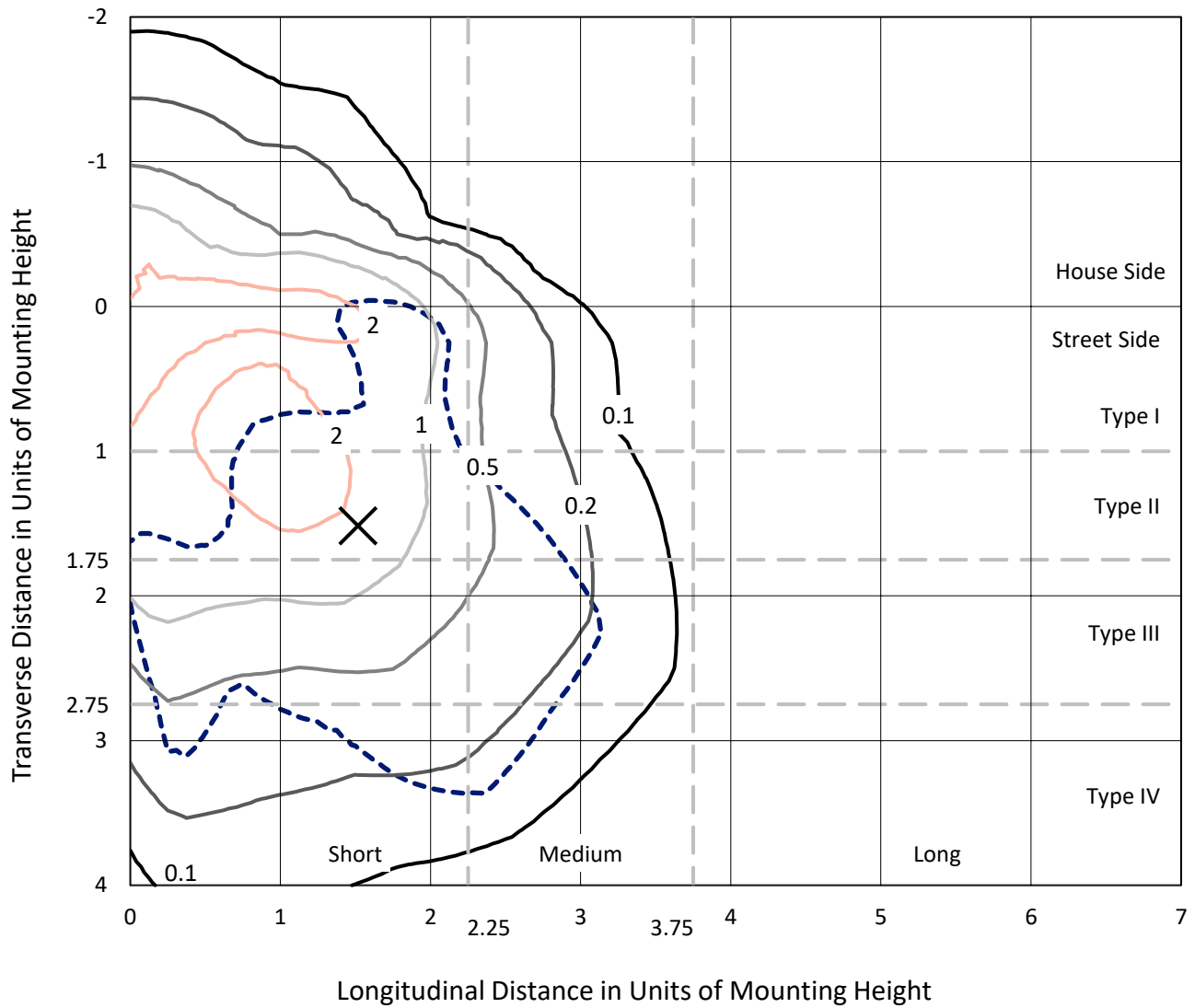
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

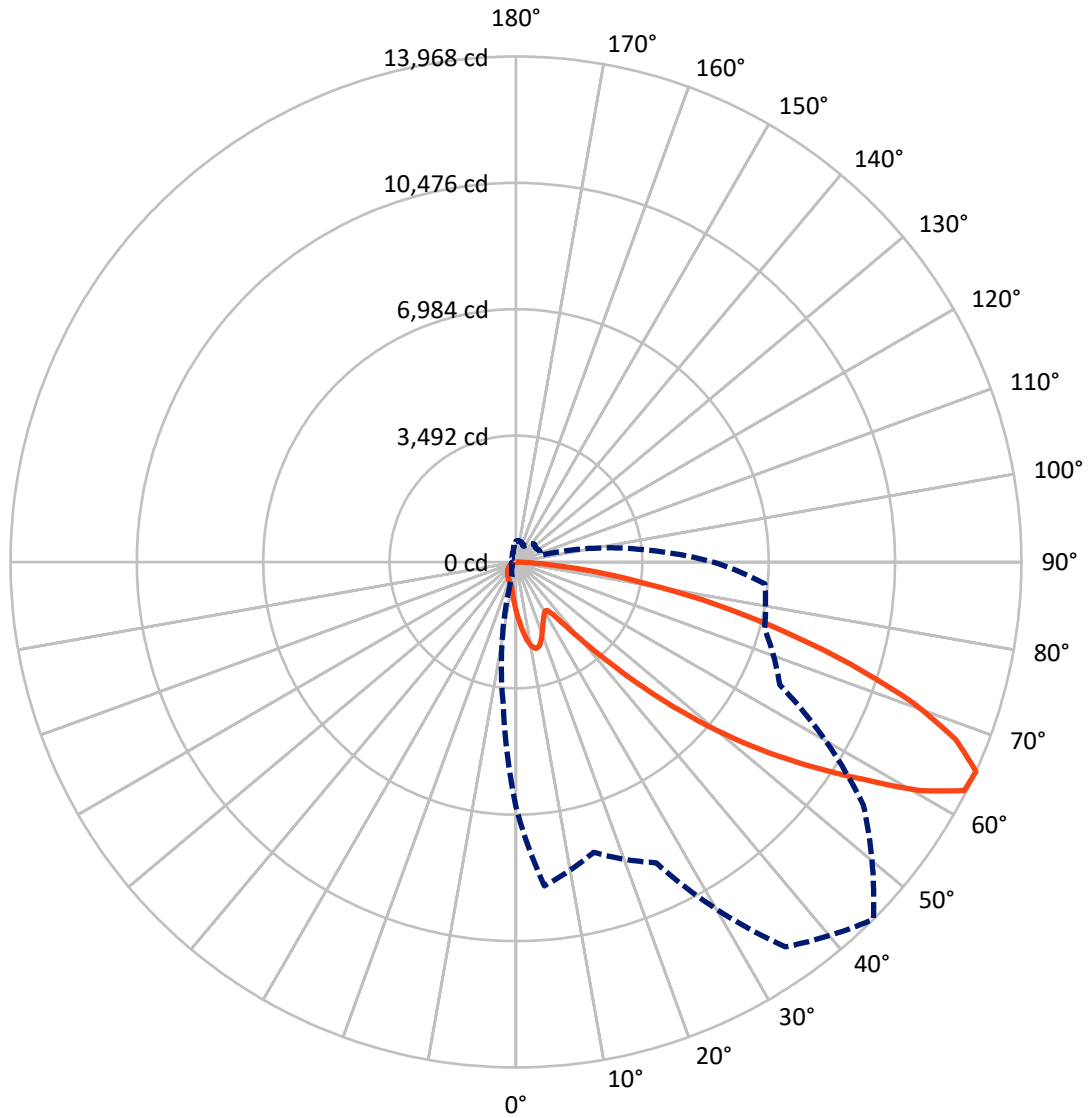
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1975.6	0.0	1975.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	7963.4	0.0	7963.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	9939.0	0.0	9939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.4
10°-20°	406.2	4.1
20°-30°	598.4	6.0
30°-40°	768.8	7.7
40°-50°	1243.3	12.5
50°-60°	2180.2	21.9
60°-70°	2728.1	27.4
70°-80°	1594.2	16.0
80°-90°	284.4	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°	9939.0	100.0
0°-180°	9939.0	100.0

Coefficient of Utilization



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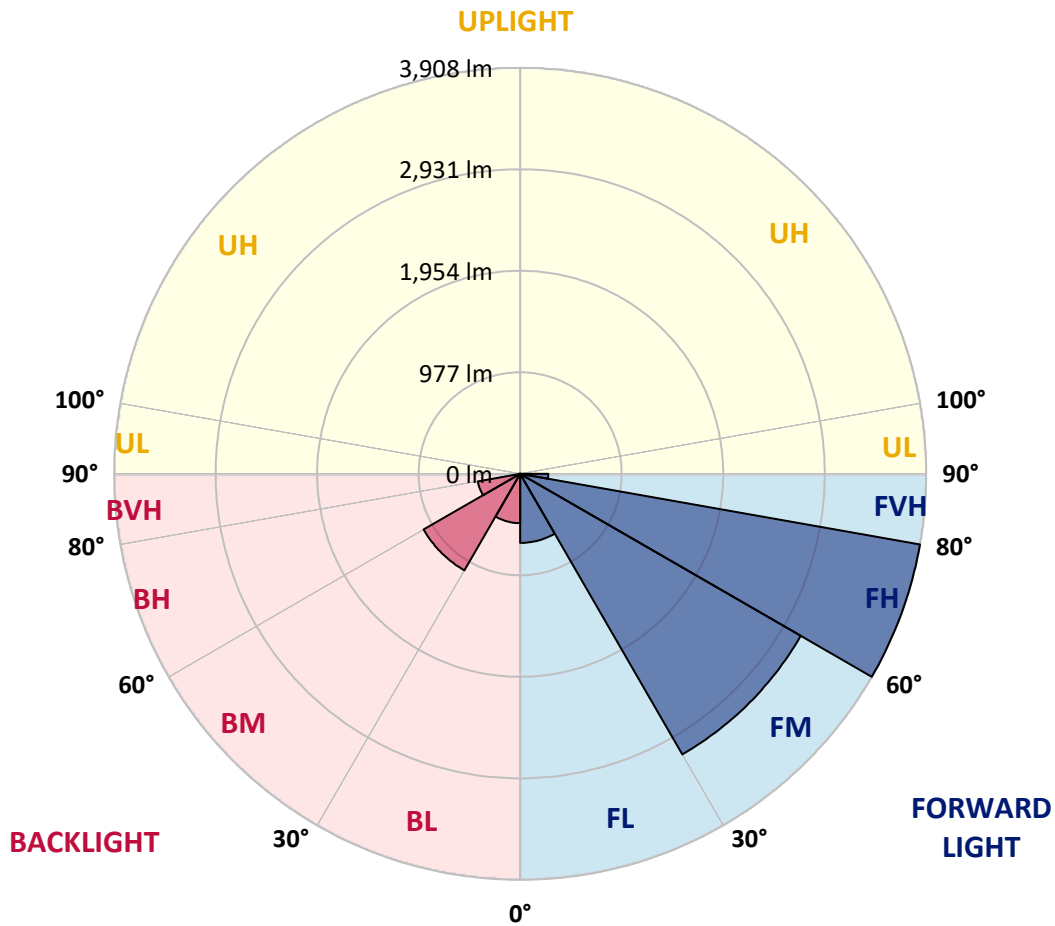
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.0	6.7			
FM (30°-60°)	3119.0	31.4			
FH (60°-80°)	3908.3	39.3			G2/5000
FVH (80°-90°)	271.1	2.7			G3/500
BL (0°-30°)	475.0	4.8	B1/500		
BM (30°-60°)	1073.3	10.8	B2/2500		
BH (60°-80°)	413.9	4.2	B1/500		G1/500
BVH (80°-90°)	13.3	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°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
2.5°	1541.9	1553.6	1579.6	1593.3	1614.5	1615.9	1615.9	1597.4	1596.7	1559.0
5°	1723.4	1750.8	1812.4	1876.1	1889.8	1893.2	1886.3	1849.4	1822.0	1748.7
7.5°	1903.4	1956.2	2050.0	2134.9	2162.3	2162.3	2145.8	2085.6	2029.4	1923.3
10°	2052.7	2119.1	2246.5	2341.7	2373.1	2366.3	2332.7	2256.7	2179.4	2050.7
12.5°	2151.3	2225.9	2365.6	2442.3	2474.5	2456.7	2418.3	2344.4	2262.9	2127.3
15°	2200.6	2278.7	2399.8	2440.2	2431.3	2412.9	2408.1	2372.5	2310.8	2184.2
17.5°	2221.8	2294.4	2378.6	2353.3	2278.0	2263.6	2311.5	2356.7	2341.7	2233.5
20°	2241.7	2302.6	2328.0	2215.7	2084.2	2071.2	2162.9	2291.7	2357.4	2279.3
22.5°	2269.1	2306.7	2254.7	2070.5	1928.8	1898.7	2000.0	2193.8	2362.2	2337.5
25°	2306.7	2317.0	2173.9	1932.9	1790.5	1760.3	1854.8	2084.9	2354.0	2400.5
27.5°	2351.9	2330.7	2096.5	1817.9	1680.2	1652.2	1746.7	1980.1	2330.7	2463.5
30°	2410.8	2348.5	2019.8	1728.9	1601.5	1581.0	1672.0	1889.8	2301.9	2543.6
32.5°	2470.4	2356.0	1948.6	1676.8	1583.7	1591.2	1665.9	1841.1	2270.4	2620.3
35°	2534.7	2380.0	1913.7	1728.2	1732.3	1798.0	1828.8	1886.3	2265.7	2724.4
37.5°	2622.4	2433.4	1955.5	1983.6	2126.0	2262.2	2236.9	2107.5	2321.1	2879.8
40°	2748.4	2527.2	2137.6	2418.3	2710.7	2931.9	2835.3	2509.4	2490.9	3103.7
42.5°	2931.9	2676.5	2460.8	2949.7	3445.4	3809.6	3550.8	3027.7	2788.1	3423.5
45°	3203.0	2918.2	2851.7	3510.4	4351.2	4925.0	4386.8	3580.3	3204.4	3907.5
47.5°	3578.9	3273.5	3218.1	4101.3	5452.2	6194.4	5313.9	4092.4	3678.2	4567.6
50°	4078.0	3752.1	3565.2	4747.7	6659.3	7488.5	6240.3	4586.8	4221.1	5374.2
52.5°	4736.7	4419.7	3969.9	5363.2	7900.7	8755.2	7170.8	5020.9	4894.9	6310.1
55°	5635.0	5424.1	4523.1	5950.7	9141.3	10029.4	8065.0	5430.3	5785.0	7422.1
57.5°	6749.7	6900.3	5320.8	6631.9	10256.7	11342.6	8963.3	6002.7	6940.7	8665.5
60°	7468.6	8863.4	6848.3	7639.1	11524.1	12827.7	10194.4	7091.4	8155.4	9111.2
62.5°	7294.7	9487.8	8677.8	8925.0	12689.4	13907.5	11400.8	8184.8	8384.1	8454.6
65°	6761.3	8983.9	8304.6	9174.9	12984.5	13968.4	11723.3	8043.8	7111.9	6902.4
67.5°	6027.4	8386.1	7418.0	8512.1	12451.1	13116.7	11122.8	7115.3	5496.0	5179.7
70°	5235.2	7724.7	6836.0	7768.5	11434.4	11632.3	10102.0	6258.1	4042.4	3498.1
72.5°	4483.4	7035.9	6437.5	7006.5	10078.0	9668.6	8773.0	5500.1	2943.5	2523.1
75°	3714.5	6019.8	5869.9	6101.3	8294.4	7615.8	7289.2	4553.9	2310.2	1825.4
77.5°	2866.1	4703.8	5048.9	4886.0	5838.4	5656.9	5650.1	3422.1	1687.8	1218.1
80°	1961.6	3278.3	3944.5	3446.7	3789.1	3696.7	4255.4	2295.8	1224.2	733.3
82.5°	1153.0	1995.9	2745.6	1668.6	2095.2	2150.6	2534.0	1116.7	720.3	169.1
85°	467.6	788.1	1073.6	653.2	1010.6	852.4	962.0	313.6	200.6	4.1
87.5°	117.8	252.0	176.7	73.3	117.1	107.5	84.9	38.3	8.2	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°
1376.2	0°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
1554.9	2.5°	1528.2	1512.5	1473.5	1434.4	1402.9	1360.5	1332.4	1298.9	1266.7	1237.9
1733.0	5°	1689.8	1637.8	1566.6	1501.5	1435.1	1370.8	1307.1	1240.0	1178.4	1140.7
1883.6	7.5°	1821.3	1729.5	1635.0	1552.2	1472.1	1396.8	1312.6	1231.1	1134.5	1083.2
1998.6	10°	1919.2	1798.7	1674.8	1579.6	1498.8	1425.5	1354.3	1272.2	1155.8	1091.4
2068.5	12.5°	1983.6	1840.5	1695.3	1586.4	1496.1	1439.2	1407.7	1375.5	1259.8	1184.5
2119.8	15°	2028.1	1869.9	1709.7	1570.7	1459.8	1418.0	1449.5	1486.5	1412.5	1325.6
2173.2	17.5°	2076.7	1908.2	1715.8	1528.2	1389.2	1371.4	1452.9	1538.5	1535.1	1448.8
2223.9	20°	2128.0	1941.8	1711.7	1459.8	1303.7	1319.4	1423.5	1522.8	1564.5	1518.0
2282.1	22.5°	2180.7	1974.0	1696.0	1370.8	1223.5	1272.8	1376.9	1463.9	1513.2	1498.8
2353.3	25°	2247.2	2019.2	1672.7	1274.9	1157.1	1225.6	1322.8	1393.4	1427.6	1426.9
2430.0	27.5°	2326.6	2079.4	1660.4	1197.5	1109.9	1172.2	1258.5	1321.5	1345.4	1345.4
2525.1	30°	2419.0	2150.6	1646.7	1146.9	1082.5	1116.7	1183.8	1245.5	1269.4	1269.4
2629.2	32.5°	2521.7	2219.1	1613.8	1116.1	1062.0	1062.6	1105.1	1161.2	1190.0	1194.1
2759.3	35°	2645.0	2292.4	1541.9	1091.4	1038.0	1009.9	1030.5	1077.0	1111.3	1120.2
2944.9	37.5°	2806.6	2382.0	1439.2	1055.1	1001.0	954.5	959.3	994.9	1032.5	1046.2
3200.9	40°	3023.6	2487.5	1332.4	1003.1	949.0	893.5	891.5	917.5	954.5	969.5
3547.4	42.5°	3310.5	2614.2	1230.4	953.1	886.0	829.2	825.7	846.3	878.5	894.2
4004.8	45°	3677.5	2769.6	1142.8	914.1	824.4	768.2	766.9	784.0	812.0	828.5
4590.2	47.5°	4187.6	2925.0	1083.2	893.5	775.8	718.2	721.0	736.0	761.4	773.0
5348.1	50°	4852.4	2972.3	1053.1	893.5	749.7	673.7	687.4	699.8	718.9	725.8
6256.7	52.5°	5490.6	2816.1	1025.7	899.0	753.2	636.1	665.5	674.4	690.9	693.6
7098.9	55°	5803.5	2421.1	988.0	900.4	774.4	603.9	647.7	664.2	670.3	669.6
7587.8	57.5°	5696.0	1957.5	924.3	894.9	788.8	583.4	625.8	657.3	661.4	655.3
7494.7	60°	5318.7	1441.3	875.7	854.5	783.3	577.2	592.3	642.2	648.4	640.2
6777.1	62.5°	4686.0	1000.3	838.1	765.5	759.3	575.1	539.5	609.4	624.4	612.8
5447.4	65°	3689.1	706.6	721.7	671.0	707.3	564.2	484.8	569.7	590.2	572.4
3952.0	67.5°	2496.4	510.1	584.7	608.0	623.1	539.5	445.1	524.5	551.9	528.6
2536.1	70°	1348.2	358.1	386.2	512.2	529.3	497.1	409.4	478.6	510.1	484.8
1802.8	72.5°	796.3	257.4	270.5	411.5	440.9	437.5	369.7	425.2	463.5	433.4
1244.1	75°	438.9	173.9	193.1	298.5	358.1	337.6	317.7	360.1	399.2	369.7
779.9	77.5°	196.5	104.1	134.2	195.8	281.4	231.4	245.8	280.7	317.0	286.2
434.1	80°	76.0	58.2	89.0	106.8	204.7	128.0	158.2	206.8	232.8	208.1
94.5	82.5°	9.6	26.0	38.3	41.8	119.1	67.8	91.7	130.1	128.0	110.9
0.0	85°	0.0	4.8	5.5	2.7	51.4	24.6	30.1	42.5	39.7	30.1
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°
1376.2	0°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
1232.4	2.5°	1198.9	1174.2	1161.9	1151.7	1161.2	1166.7	1166.7	1190.0	1203.7	1209.2
1116.7	5°	1056.5	1010.6	979.8	961.3	967.5	974.3	981.9	1011.3	1031.1	1044.2
1036.6	7.5°	944.2	874.4	831.2	808.6	812.0	816.8	823.0	851.8	871.6	888.7
1021.6	10°	888.7	790.1	733.3	705.9	701.1	698.4	696.3	713.5	728.5	742.2
1083.2	12.5°	891.5	753.8	684.7	651.1	636.8	620.3	607.3	610.1	619.6	636.8
1193.4	15°	926.4	742.2	659.4	617.6	593.6	574.5	558.7	555.3	558.7	561.4
1319.4	17.5°	973.6	740.8	637.4	585.4	560.8	545.0	530.6	525.8	526.5	530.0
1402.9	20°	1011.3	736.7	612.8	554.6	532.7	519.0	504.6	499.8	501.2	501.9
1411.2	22.5°	1031.1	730.6	585.4	523.8	505.3	491.6	478.6	477.9	477.9	482.0
1366.6	25°	1031.1	717.6	560.8	494.3	477.9	465.6	449.8	452.6	454.0	459.4
1297.5	27.5°	1006.5	692.9	540.9	469.0	451.9	439.6	425.2	428.6	430.7	436.8
1229.0	30°	975.0	663.5	518.3	445.1	425.2	416.3	404.0	405.3	408.1	414.9
1165.3	32.5°	941.5	628.5	499.8	421.1	401.2	394.4	380.7	382.7	385.5	393.0
1102.4	35°	904.5	587.5	477.9	399.2	379.3	373.8	358.1	359.5	363.6	371.8
1034.6	37.5°	865.5	553.9	456.0	378.0	357.4	351.9	335.5	336.9	341.7	351.2
963.4	40°	827.1	521.1	432.7	355.4	334.8	330.0	312.2	313.6	319.1	329.3
891.5	42.5°	785.3	495.7	402.6	332.1	310.2	305.4	288.9	291.0	297.2	307.4
825.1	45°	735.4	479.3	369.0	310.2	285.5	280.7	265.7	269.8	276.6	286.9
768.2	47.5°	684.0	472.4	341.0	286.9	260.2	256.1	243.8	250.6	258.1	266.3
719.6	50°	634.7	463.5	312.2	265.0	238.3	234.2	225.9	234.8	242.4	249.9
684.7	52.5°	578.6	444.4	286.2	245.8	219.8	218.4	214.3	222.5	229.4	236.2
654.6	55°	520.4	413.6	263.6	228.7	204.0	205.4	203.4	210.2	215.7	221.8
627.2	57.5°	469.7	374.5	245.8	210.2	190.3	194.5	191.7	195.1	198.6	206.1
594.3	60°	418.3	328.0	225.9	188.3	176.7	181.4	173.9	173.2	174.6	176.7
545.7	62.5°	349.2	279.4	201.3	169.1	161.6	163.6	149.3	138.3	138.3	140.4
477.9	65°	280.7	234.2	173.9	147.2	141.0	139.7	119.1	104.1	102.7	108.9
399.2	67.5°	230.7	194.5	146.5	122.6	118.5	119.8	104.8	89.7	88.3	95.2
325.2	70°	191.0	156.8	117.1	94.5	98.6	104.8	89.7	75.3	73.3	79.4
264.3	72.5°	152.0	122.6	89.7	69.8	81.5	89.0	73.3	59.6	58.2	63.7
204.0	75°	111.6	87.6	60.9	50.7	63.0	69.8	53.4	42.5	40.4	45.2
136.3	77.5°	69.2	49.3	38.3	30.1	43.1	46.6	28.1	24.6	24.0	27.4
82.8	80°	32.2	21.2	18.5	10.3	15.7	18.5	11.6	13.0	13.7	16.4
41.8	82.5°	8.9	3.4	0.7	0.0	0.0	5.5	2.7	5.5	6.8	10.3
3.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4	6.2
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°
1376.2	0°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
1247.5	2.5°	1276.3	1303.7	1347.5	1392.7	1437.2	1482.4	1526.2	1541.9
1103.7	5°	1157.8	1220.8	1307.8	1400.9	1496.7	1594.0	1683.0	1723.4
955.1	7.5°	1025.7	1116.1	1246.8	1392.7	1545.4	1698.0	1838.4	1903.4
807.9	10°	884.6	999.0	1148.2	1345.4	1564.5	1775.4	1968.5	2052.7
678.5	12.5°	750.4	870.2	1035.3	1271.5	1549.5	1819.9	2052.0	2151.3
587.5	15°	638.1	744.3	922.3	1183.8	1500.8	1822.7	2091.7	2200.6
536.8	17.5°	553.9	623.1	807.3	1086.6	1437.2	1797.3	2105.4	2221.8
509.4	20°	512.2	531.3	658.0	962.0	1377.6	1773.4	2119.1	2241.7
487.5	22.5°	487.5	492.3	538.2	801.1	1306.4	1765.8	2143.1	2269.1
467.6	25°	467.6	469.0	481.3	634.7	1197.5	1761.0	2180.1	2306.7
447.1	27.5°	447.8	447.8	454.6	511.5	1049.6	1740.5	2228.0	2351.9
426.6	30°	427.9	427.9	432.7	452.6	876.4	1700.1	2285.5	2410.8
406.0	32.5°	407.4	407.4	411.5	425.9	699.8	1649.4	2338.2	2470.4
384.8	35°	386.9	385.5	391.0	406.0	556.7	1585.1	2390.9	2534.7
363.6	37.5°	364.9	364.3	369.7	386.9	480.7	1510.4	2430.7	2622.4
342.3	40°	341.7	341.7	347.8	366.3	458.7	1416.6	2493.7	2748.4
320.4	42.5°	320.4	319.1	325.9	348.5	442.3	1326.9	2606.6	2931.9
300.6	45°	299.9	297.2	303.3	331.4	413.6	1295.4	2817.5	3203.0
281.4	47.5°	280.7	273.9	279.4	310.9	387.5	1413.2	3162.6	3578.9
264.3	50°	265.0	252.0	256.8	290.3	367.7	1668.6	3610.4	4078.0
248.5	52.5°	248.5	231.4	234.2	265.0	349.9	1911.7	4095.8	4736.7
232.8	55°	231.4	212.3	213.6	239.6	324.5	1948.0	4569.6	5635.0
215.0	57.5°	212.3	194.5	194.5	216.4	306.1	1688.5	4933.9	6749.7
193.1	60°	191.0	179.4	176.0	197.9	322.5	1191.4	4976.4	7468.6
165.0	62.5°	167.7	161.6	156.8	180.1	334.8	705.9	4634.7	7294.7
130.1	65°	141.0	139.7	136.3	197.9	282.1	417.0	3978.8	6761.3
110.9	67.5°	118.5	116.4	116.4	207.5	214.3	262.2	3108.5	6027.4
94.5	70°	102.0	94.5	94.5	156.8	130.1	181.4	2170.5	5235.2
78.1	72.5°	85.6	77.4	71.9	125.3	97.2	132.8	1356.4	4483.4
59.6	75°	68.5	62.3	55.5	82.8	72.6	100.6	788.1	3714.5
37.7	77.5°	49.3	46.6	39.0	60.9	52.7	72.6	469.0	2866.1
23.3	80°	25.3	26.0	24.6	34.9	35.6	49.3	267.0	1961.6
15.1	82.5°	15.1	11.6	13.0	17.1	20.5	28.1	100.6	1153.0
11.0	85°	9.6	6.2	6.2	8.2	10.3	11.0	30.8	467.6
5.5	87.5°	4.8	2.1	2.7	4.1	3.4	2.7	1.4	117.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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