

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: P946351

Luminaire Tested: **GALN-SB2A-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946351
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-SB2A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 7243 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

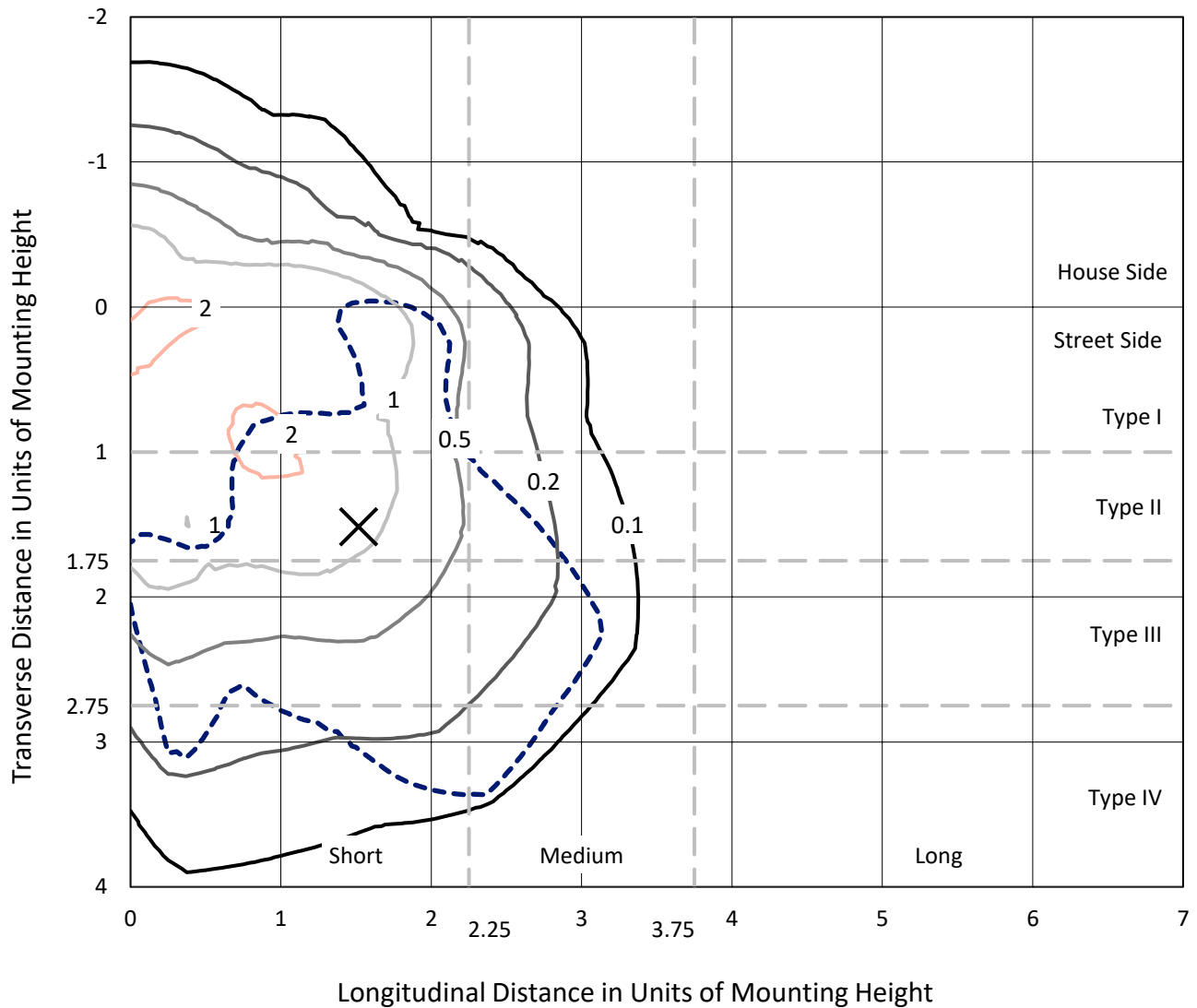
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

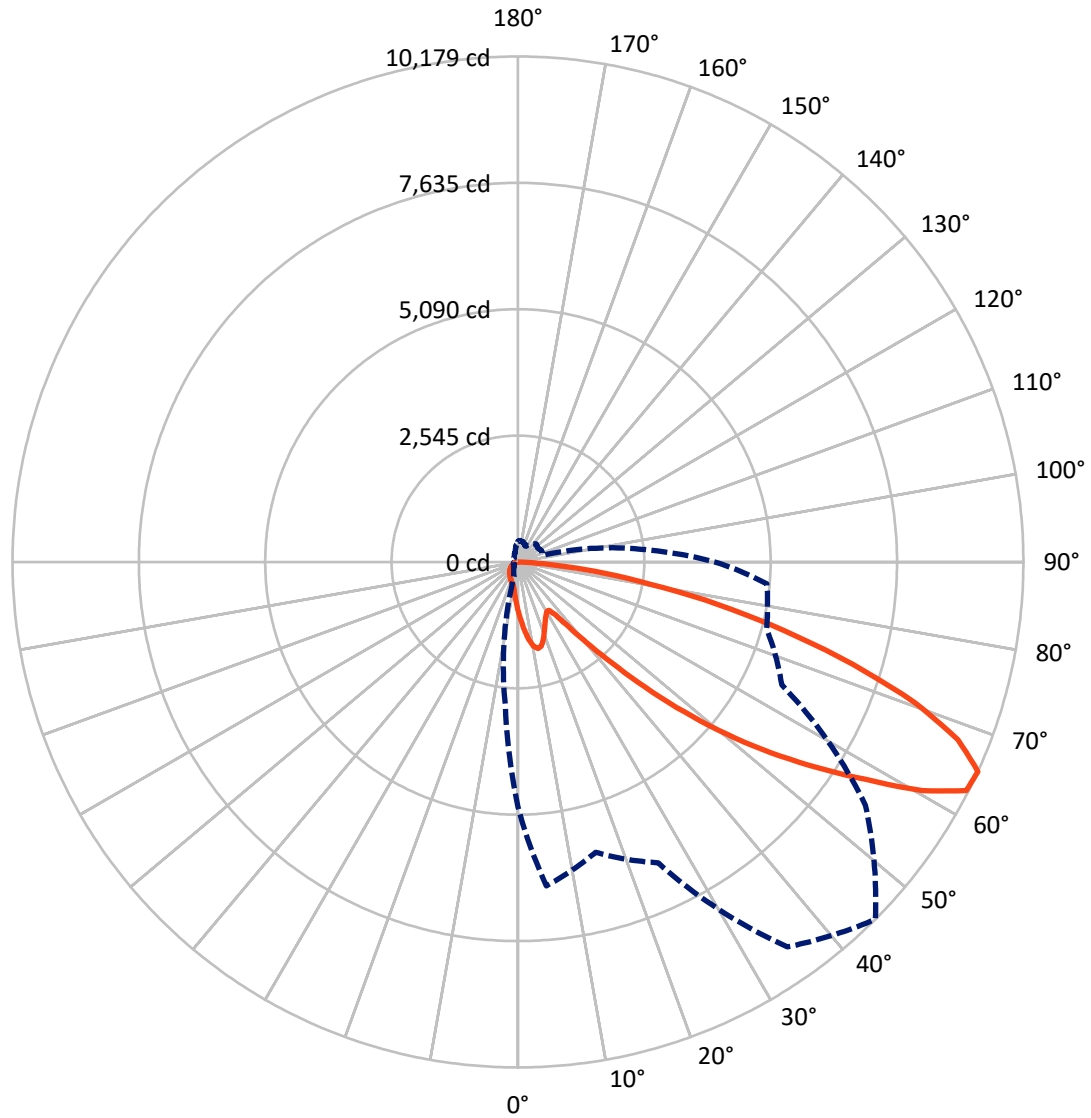
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1439.7	0.0	1439.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5803.3	0.0	5803.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	7243.0	0.0	7243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	1.4
10°-20°	296.0	4.1
20°-30°	436.1	6.0
30°-40°	560.2	7.7
40°-50°	906.0	12.5
50°-60°	1588.8	21.9
60°-70°	1988.1	27.4
70°-80°	1161.7	16.0
80°-90°	207.3	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°	7243.0	100.0
0°-180°	7243.0	100.0

Coefficient of Utilization



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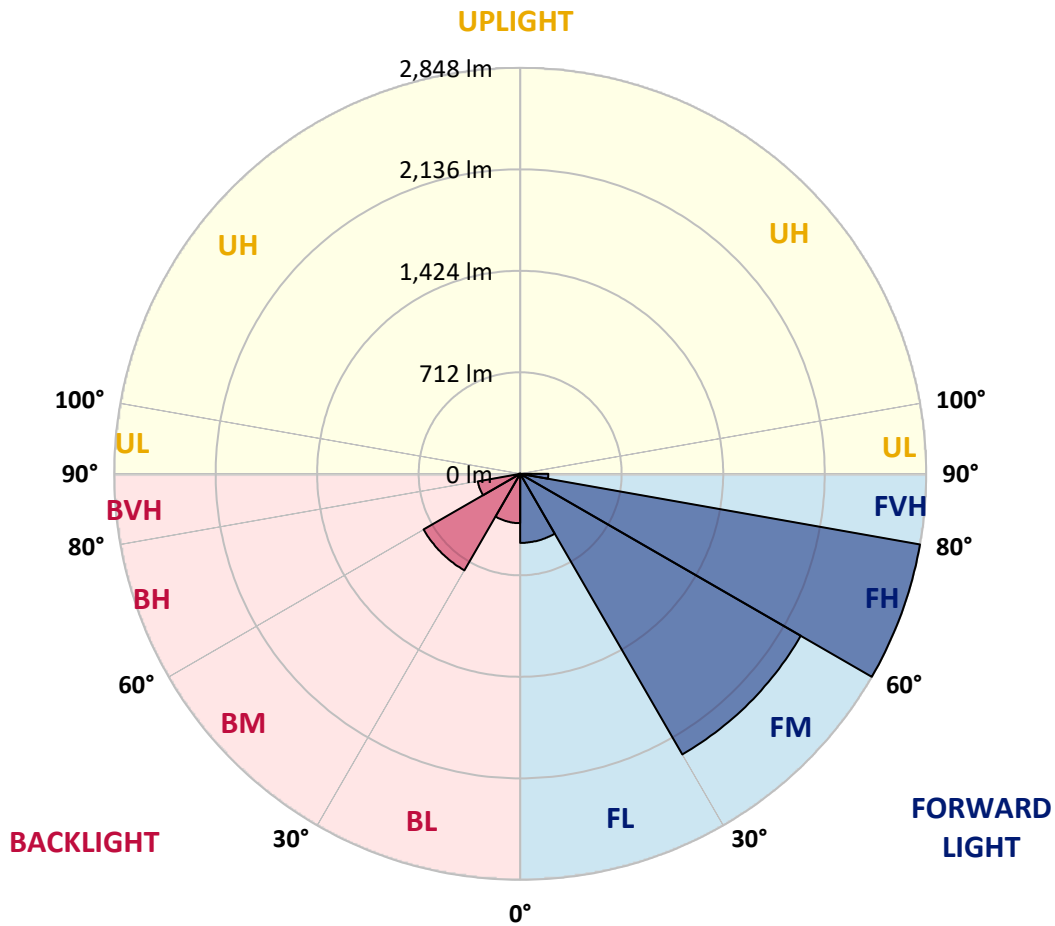
CATALOG NUMBER: GALN-SB2A-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.6	6.7			
FM (30°-60°)	2272.9	31.4			
FH (60°-80°)	2848.2	39.3			G2/5000
FVH (80°-90°)	197.6	2.7			G2/225
BL (0°-30°)	346.2	4.8	B1/500		
BM (30°-60°)	782.2	10.8	B1/1000		
BH (60°-80°)	301.6	4.2	B1/500		G1/500
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9
2.5°	1123.7	1132.2	1151.1	1161.1	1176.6	1177.6	1177.6	1164.1	1163.6	1136.1
5°	1255.9	1275.9	1320.8	1367.2	1377.1	1379.6	1374.7	1347.7	1327.8	1274.4
7.5°	1387.1	1425.5	1493.9	1555.8	1575.7	1575.7	1563.8	1519.9	1478.9	1401.6
10°	1495.9	1544.3	1637.1	1706.5	1729.4	1724.4	1700.0	1644.6	1588.2	1494.4
12.5°	1567.8	1622.1	1723.9	1779.8	1803.3	1790.3	1762.4	1708.5	1649.1	1550.3
15°	1603.7	1660.6	1748.9	1778.3	1771.8	1758.4	1754.9	1728.9	1684.0	1591.7
17.5°	1619.1	1672.0	1733.4	1714.9	1660.1	1649.6	1684.5	1717.4	1706.5	1627.6
20°	1633.6	1678.0	1696.5	1614.7	1518.9	1509.4	1576.2	1670.0	1717.9	1661.1
22.5°	1653.6	1681.0	1643.1	1508.9	1405.6	1383.6	1457.5	1598.7	1721.4	1703.5
25°	1681.0	1688.5	1584.2	1408.6	1304.8	1282.8	1351.7	1519.4	1715.4	1749.4
27.5°	1714.0	1698.5	1527.8	1324.8	1224.5	1204.0	1272.9	1443.0	1698.5	1795.3
30°	1756.9	1711.5	1472.0	1259.9	1167.1	1152.1	1218.5	1377.1	1677.5	1853.7
32.5°	1800.3	1716.9	1420.1	1222.0	1154.1	1159.6	1214.0	1341.7	1654.6	1909.5
35°	1847.2	1734.4	1394.6	1259.4	1262.4	1310.3	1332.7	1374.7	1651.1	1985.4
37.5°	1911.0	1773.3	1425.0	1445.5	1549.3	1648.6	1630.1	1535.8	1691.5	2098.7
40°	2002.9	1841.7	1557.8	1762.4	1975.4	2136.6	2066.2	1828.7	1815.2	2261.8
42.5°	2136.6	1950.5	1793.3	2149.5	2510.8	2776.3	2587.6	2206.4	2031.8	2494.8
45°	2334.2	2126.6	2078.2	2558.2	3170.9	3589.1	3196.9	2609.1	2335.2	2847.6
47.5°	2608.1	2385.6	2345.1	2988.8	3973.3	4514.2	3872.5	2982.3	2680.5	3328.6
50°	2971.8	2734.3	2598.1	3459.8	4853.0	5457.2	4547.6	3342.6	3076.1	3916.4
52.5°	3451.9	3220.8	2893.0	3908.4	5757.6	6380.3	5225.7	3658.9	3567.1	4598.5
55°	4106.5	3952.8	3296.2	4336.5	6661.7	7308.9	5877.3	3957.3	4215.8	5408.8
57.5°	4918.8	5028.6	3877.5	4833.0	7474.5	8265.9	6532.0	4374.4	5058.0	6314.9
60°	5442.7	6459.1	4990.7	5567.0	8398.1	9348.1	7429.1	5167.8	5943.2	6639.8
62.5°	5316.0	6914.2	6323.9	6504.0	9247.4	10135.0	8308.3	5964.7	6109.9	6161.2
65°	4927.3	6546.9	6052.0	6686.2	9462.4	10179.4	8543.3	5861.9	5182.8	5030.1
67.5°	4392.4	6111.3	5405.8	6203.2	9073.7	9558.7	8105.7	5185.3	4005.2	3774.7
70°	3815.1	5629.3	4981.7	5661.3	8332.7	8477.0	7361.8	4560.6	2945.9	2549.2
72.5°	3267.2	5127.4	4691.3	5105.9	7344.3	7045.9	6393.3	4008.2	2145.1	1838.7
75°	2706.9	4386.9	4277.6	4446.3	6044.5	5550.0	5312.0	3318.6	1683.5	1330.2
77.5°	2088.7	3427.9	3679.4	3560.6	4254.7	4122.5	4117.5	2493.8	1230.0	887.7
80°	1429.5	2389.1	2874.5	2511.8	2761.3	2693.9	3101.1	1673.0	892.2	534.4
82.5°	840.3	1454.5	2000.9	1216.0	1526.8	1567.3	1846.7	813.8	524.9	123.2
85°	340.8	574.3	782.4	476.0	736.5	621.2	701.0	228.5	146.2	3.0
87.5°	85.8	183.6	128.7	53.4	85.3	78.3	61.9	27.9	6.0	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1002.9	0°	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9
1133.2	2.5°	1113.7	1102.2	1073.8	1045.3	1022.4	991.4	971.0	946.5	923.1	902.1
1262.9	5°	1231.5	1193.5	1141.6	1094.2	1045.8	998.9	952.5	903.6	858.7	831.3
1372.7	7.5°	1327.3	1260.4	1191.5	1131.2	1072.8	1017.9	956.5	897.1	826.8	789.4
1456.5	10°	1398.6	1310.8	1220.5	1151.1	1092.2	1038.8	987.0	927.1	842.3	795.4
1507.4	12.5°	1445.5	1341.2	1235.4	1156.1	1090.2	1048.8	1025.9	1002.4	918.1	863.2
1544.8	15°	1477.9	1362.7	1245.9	1144.6	1063.8	1033.4	1056.3	1083.3	1029.4	966.0
1583.7	17.5°	1513.4	1390.6	1250.4	1113.7	1012.4	999.4	1058.8	1121.2	1118.7	1055.8
1620.6	20°	1550.8	1415.1	1247.4	1063.8	950.0	961.5	1037.4	1109.7	1140.1	1106.2
1663.1	22.5°	1589.2	1438.5	1235.9	998.9	891.7	927.6	1003.4	1066.8	1102.7	1092.2
1714.9	25°	1637.6	1471.5	1219.0	929.1	843.3	893.2	964.0	1015.4	1040.3	1039.8
1770.8	27.5°	1695.5	1515.4	1210.0	872.7	808.8	854.2	917.1	963.0	980.5	980.5
1840.2	30°	1762.9	1567.3	1200.0	835.8	788.9	813.8	862.7	907.6	925.1	925.1
1916.0	32.5°	1837.7	1617.2	1176.1	813.3	773.9	774.4	805.3	846.2	867.2	870.2
2010.8	35°	1927.5	1670.5	1123.7	795.4	756.4	736.0	750.9	784.9	809.8	816.3
2146.1	37.5°	2045.3	1735.9	1048.8	768.9	729.5	695.6	699.1	725.0	752.4	762.4
2332.7	40°	2203.4	1812.7	971.0	731.0	691.6	651.2	649.7	668.6	695.6	706.5
2585.1	42.5°	2412.5	1905.1	896.6	694.6	645.7	604.2	601.8	616.7	640.2	651.7
2918.5	45°	2680.0	2018.3	832.8	666.1	600.8	559.8	558.8	571.3	591.8	603.8
3345.1	47.5°	3051.7	2131.6	789.4	651.2	565.3	523.4	525.4	536.4	554.9	563.3
3897.4	50°	3536.2	2166.0	767.4	651.2	546.4	491.0	501.0	509.9	523.9	528.9
4559.6	52.5°	4001.2	2052.3	747.5	655.1	548.9	463.5	485.0	491.5	503.5	505.5
5173.3	55°	4229.2	1764.3	720.0	656.1	564.3	440.1	472.0	484.0	488.5	488.0
5529.6	57.5°	4150.9	1426.5	673.6	652.1	574.8	425.1	456.1	479.0	482.0	477.5
5461.7	60°	3876.0	1050.3	638.2	622.7	570.8	420.6	431.6	468.0	472.5	466.5
4938.8	62.5°	3414.9	729.0	610.7	557.8	553.4	419.1	393.2	444.1	455.1	446.6
3969.8	65°	2688.4	514.9	525.9	489.0	515.4	411.1	353.3	415.1	430.1	417.1
2880.0	67.5°	1819.2	371.7	426.1	443.1	454.1	393.2	324.3	382.2	402.2	385.2
1848.2	70°	982.5	261.0	281.4	373.2	385.7	362.3	298.4	348.8	371.7	353.3
1313.8	72.5°	580.3	187.6	197.1	299.9	321.3	318.8	269.4	309.9	337.8	315.8
906.6	75°	319.8	126.7	140.7	217.5	261.0	246.0	231.5	262.5	290.9	269.4
568.3	77.5°	143.2	75.8	97.8	142.7	205.1	168.7	179.1	204.6	231.0	208.6
316.3	80°	55.4	42.4	64.9	77.8	149.2	93.3	115.3	150.7	169.6	151.7
68.9	82.5°	7.0	19.0	27.9	30.4	86.8	49.4	66.9	94.8	93.3	80.8
0.0	85°	0.0	3.5	4.0	2.0	37.4	18.0	22.0	30.9	28.9	22.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°
1002.9	0°	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9
898.1	2.5°	873.7	855.7	846.7	839.3	846.2	850.2	850.2	867.2	877.2	881.2
813.8	5°	769.9	736.5	714.0	700.5	705.0	710.0	715.5	737.0	751.4	760.9
755.4	7.5°	688.1	637.2	605.7	589.3	591.8	595.3	599.8	620.7	635.2	647.7
744.5	10°	647.7	575.8	534.4	514.4	510.9	508.9	507.4	519.9	530.9	540.9
789.4	12.5°	649.7	549.4	499.0	474.5	464.0	452.1	442.6	444.6	451.6	464.0
869.7	15°	675.1	540.9	480.5	450.1	432.6	418.6	407.2	404.7	407.2	409.2
961.5	17.5°	709.5	539.9	464.5	426.6	408.7	397.2	386.7	383.2	383.7	386.2
1022.4	20°	737.0	536.9	446.6	404.2	388.2	378.2	367.7	364.2	365.2	365.7
1028.4	22.5°	751.4	532.4	426.6	381.7	368.2	358.3	348.8	348.3	348.3	351.3
995.9	25°	751.4	522.9	408.7	360.3	348.3	339.3	327.8	329.8	330.8	334.8
945.5	27.5°	733.5	505.0	394.2	341.8	329.3	320.3	309.9	312.4	313.9	318.3
895.6	30°	710.5	483.5	377.7	324.3	309.9	303.4	294.4	295.4	297.4	302.4
849.2	32.5°	686.1	458.1	364.2	306.9	292.4	287.4	277.4	278.9	280.9	286.4
803.3	35°	659.1	428.1	348.3	290.9	276.4	272.4	261.0	262.0	265.0	270.9
753.9	37.5°	630.7	403.7	332.3	275.4	260.5	256.5	244.5	245.5	249.0	256.0
702.0	40°	602.8	379.7	315.3	259.0	244.0	240.5	227.5	228.5	232.5	240.0
649.7	42.5°	572.3	361.3	293.4	242.0	226.0	222.5	210.6	212.1	216.6	224.0
601.3	45°	535.9	349.3	268.9	226.0	208.1	204.6	193.6	196.6	201.6	209.1
559.8	47.5°	498.5	344.3	248.5	209.1	189.6	186.6	177.6	182.6	188.1	194.1
524.4	50°	462.5	337.8	227.5	193.1	173.6	170.6	164.7	171.1	176.6	182.1
499.0	52.5°	421.6	323.8	208.6	179.1	160.2	159.2	156.2	162.2	167.2	172.1
477.0	55°	379.2	301.4	192.1	166.7	148.7	149.7	148.2	153.2	157.2	161.7
457.1	57.5°	342.3	272.9	179.1	153.2	138.7	141.7	139.7	142.2	144.7	150.2
433.1	60°	304.9	239.0	164.7	137.2	128.7	132.2	126.7	126.2	127.2	128.7
397.7	62.5°	254.5	203.6	146.7	123.2	117.8	119.3	108.8	100.8	100.8	102.3
348.3	65°	204.6	170.6	126.7	107.3	102.8	101.8	86.8	75.8	74.8	79.3
290.9	67.5°	168.2	141.7	106.8	89.3	86.3	87.3	76.3	65.4	64.4	69.4
237.0	70°	139.2	114.3	85.3	68.9	71.9	76.3	65.4	54.9	53.4	57.9
192.6	72.5°	110.8	89.3	65.4	50.9	59.4	64.9	53.4	43.4	42.4	46.4
148.7	75°	81.3	63.9	44.4	36.9	45.9	50.9	38.9	30.9	29.4	32.9
99.3	77.5°	50.4	35.9	27.9	22.0	31.4	33.9	20.5	18.0	17.5	20.0
60.4	80°	23.5	15.5	13.5	7.5	11.5	13.5	8.5	9.5	10.0	12.0
30.4	82.5°	6.5	2.5	0.5	0.0	0.0	4.0	2.0	4.0	5.0	7.5
2.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	4.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1002.9	0°	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9	1002.9
909.1	2.5°	930.1	950.0	982.0	1014.9	1047.3	1080.3	1112.2	1123.7
804.3	5°	843.8	889.7	953.0	1020.9	1090.7	1161.6	1226.5	1255.9
696.1	7.5°	747.5	813.3	908.6	1014.9	1126.2	1237.4	1339.7	1387.1
588.8	10°	644.7	728.0	836.8	980.5	1140.1	1293.8	1434.5	1495.9
494.5	12.5°	546.9	634.2	754.4	926.6	1129.2	1326.3	1495.4	1567.8
428.1	15°	465.0	542.4	672.1	862.7	1093.7	1328.3	1524.3	1603.7
391.2	17.5°	403.7	454.1	588.3	791.9	1047.3	1309.8	1534.3	1619.1
371.2	20°	373.2	387.2	479.5	701.0	1003.9	1292.3	1544.3	1633.6
355.3	22.5°	355.3	358.8	392.2	583.8	952.0	1286.8	1561.8	1653.6
340.8	25°	340.8	341.8	350.8	462.5	872.7	1283.3	1588.7	1681.0
325.8	27.5°	326.3	326.3	331.3	372.7	764.9	1268.4	1623.6	1714.0
310.9	30°	311.9	311.9	315.3	329.8	638.7	1238.9	1665.6	1756.9
295.9	32.5°	296.9	296.9	299.9	310.4	509.9	1202.0	1704.0	1800.3
280.4	35°	281.9	280.9	284.9	295.9	405.7	1155.1	1742.4	1847.2
265.0	37.5°	265.9	265.5	269.4	281.9	350.3	1100.7	1771.3	1911.0
249.5	40°	249.0	249.0	253.5	266.9	334.3	1032.4	1817.2	2002.9
233.5	42.5°	233.5	232.5	237.5	254.0	322.3	967.0	1899.6	2136.6
219.0	45°	218.5	216.6	221.0	241.5	301.4	944.0	2053.2	2334.2
205.1	47.5°	204.6	199.6	203.6	226.5	282.4	1029.9	2304.7	2608.1
192.6	50°	193.1	183.6	187.1	211.6	267.9	1216.0	2631.1	2971.8
181.1	52.5°	181.1	168.7	170.6	193.1	255.0	1393.1	2984.8	3451.9
169.6	55°	168.7	154.7	155.7	174.6	236.5	1419.6	3330.1	4106.5
156.7	57.5°	154.7	141.7	141.7	157.7	223.0	1230.5	3595.6	4918.8
140.7	60°	139.2	130.7	128.2	144.2	235.0	868.2	3626.5	5442.7
120.3	62.5°	122.2	117.8	114.3	131.2	244.0	514.4	3377.5	5316.0
94.8	65°	102.8	101.8	99.3	144.2	205.6	303.9	2899.5	4927.3
80.8	67.5°	86.3	84.8	84.8	151.2	156.2	191.1	2265.3	4392.4
68.9	70°	74.3	68.9	68.9	114.3	94.8	132.2	1581.7	3815.1
56.9	72.5°	62.4	56.4	52.4	91.3	70.9	96.8	988.5	3267.2
43.4	75°	49.9	45.4	40.4	60.4	52.9	73.3	574.3	2706.9
27.4	77.5°	35.9	33.9	28.4	44.4	38.4	52.9	341.8	2088.7
17.0	80°	18.5	19.0	18.0	25.4	25.9	35.9	194.6	1429.5
11.0	82.5°	11.0	8.5	9.5	12.5	15.0	20.5	73.3	840.3
8.0	85°	7.0	4.5	4.5	6.0	7.5	8.0	22.5	340.8
4.0	87.5°	3.5	1.5	2.0	3.0	2.5	2.0	1.0	85.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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