

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: P945973

Luminaire Tested: **GALN-SB1D-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945973
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-SB1D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7769 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

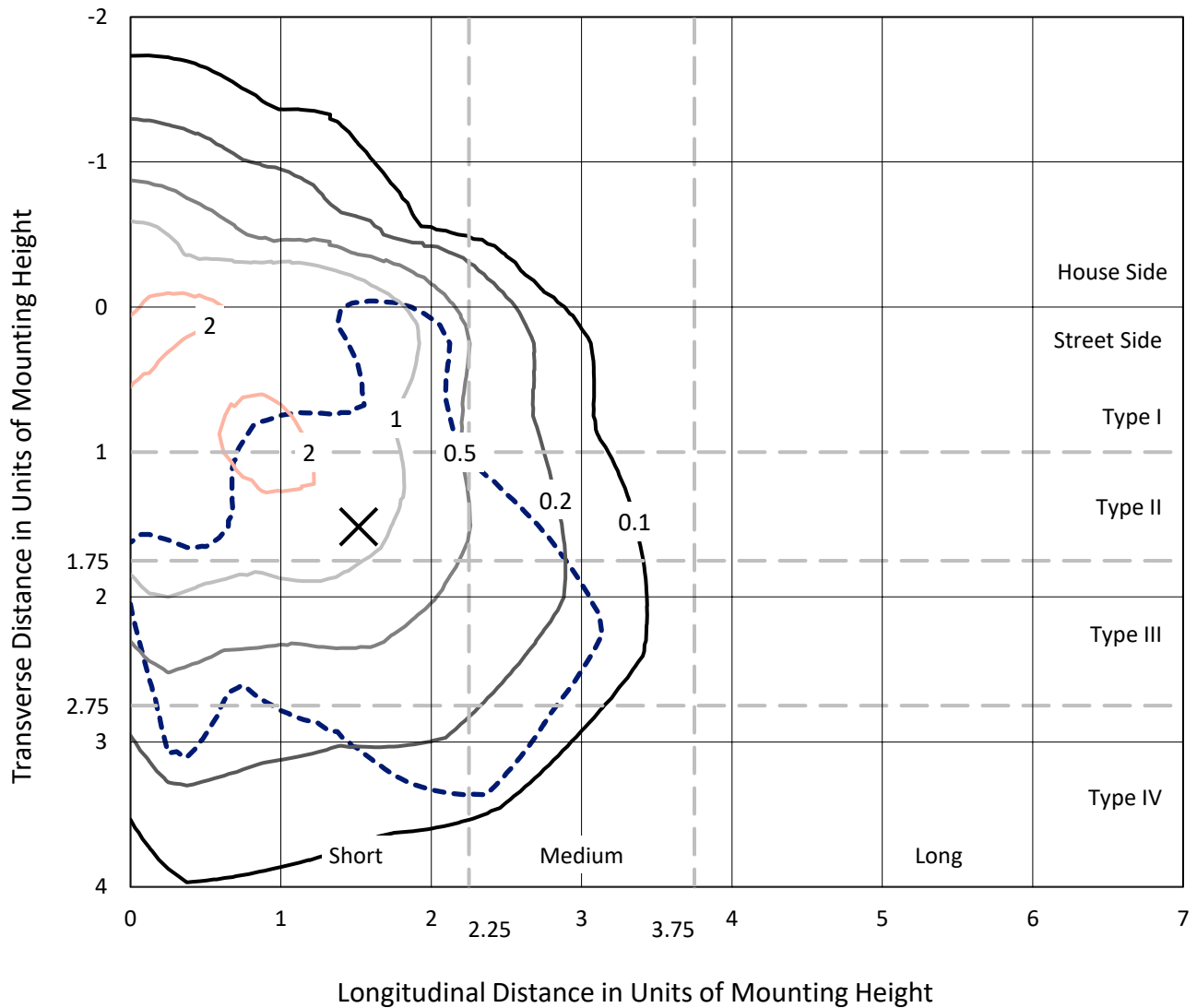
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

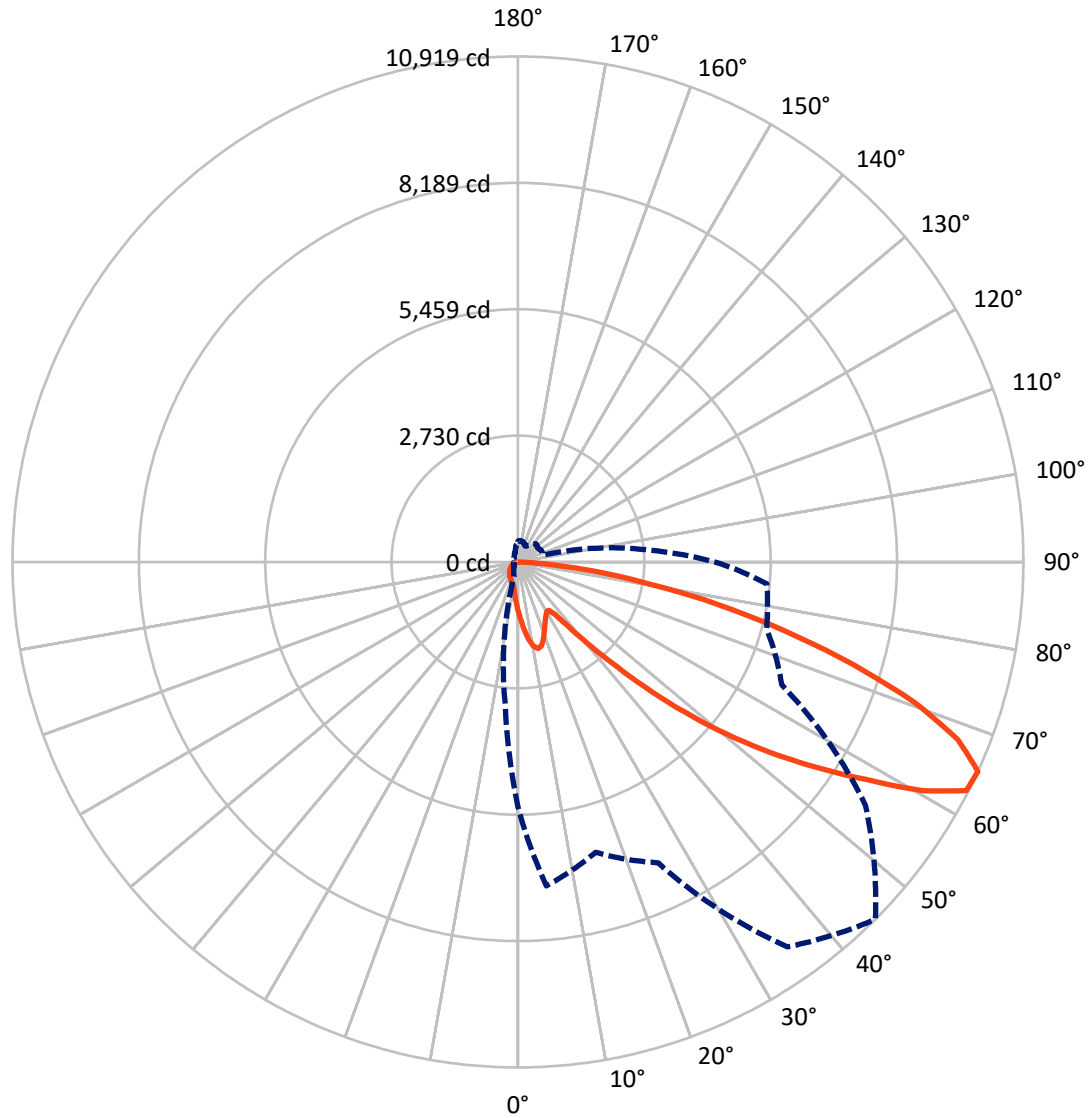
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1544.2	0.0	1544.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	6224.8	0.0	6224.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	7769.0	0.0	7769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.4
10°-20°	317.5	4.1
20°-30°	467.7	6.0
30°-40°	600.9	7.7
40°-50°	971.8	12.5
50°-60°	1704.2	21.9
60°-70°	2132.5	27.4
70°-80°	1246.1	16.0
80°-90°	222.3	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°	7769.0	100.0
0°-180°	7769.0	100.0

Coefficient of Utilization



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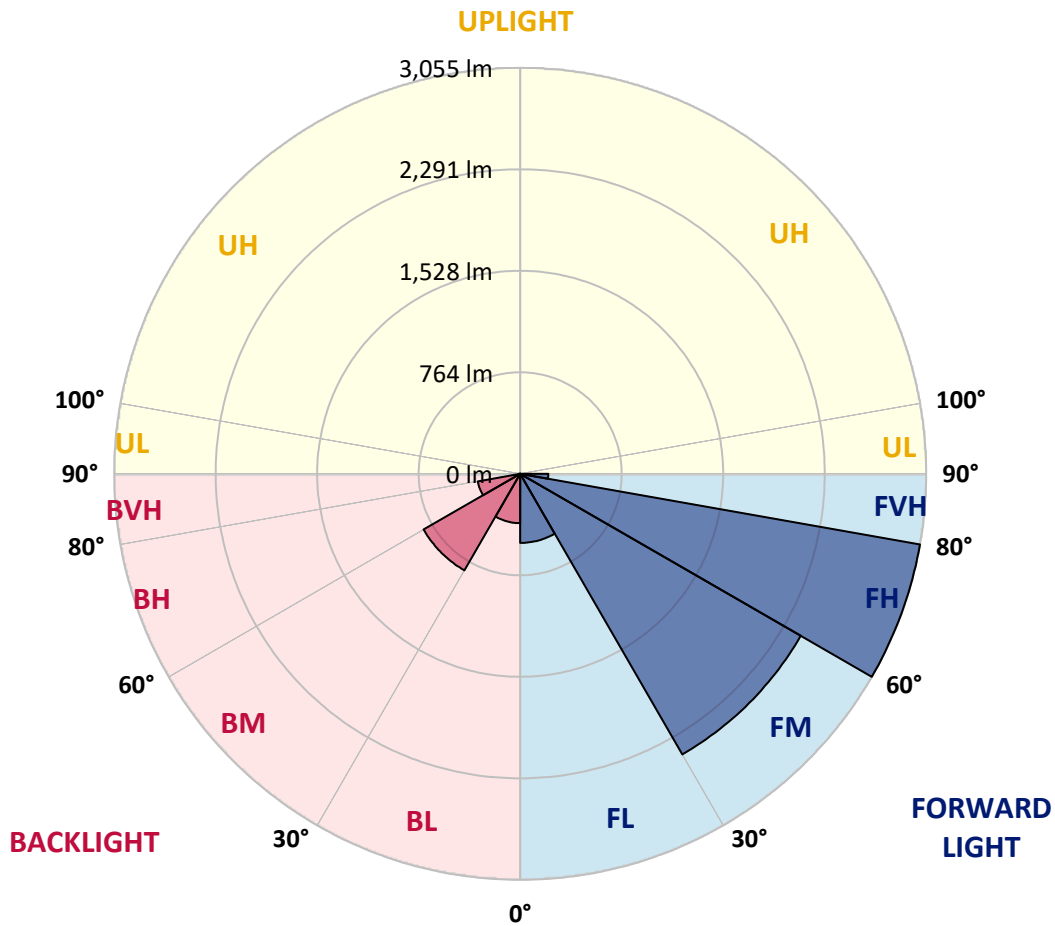
CATALOG NUMBER: GALN-SB1D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.8	6.7			
FM (30°-60°)	2438.0	31.4			
FH (60°-80°)	3055.0	39.3			G2/5000
FVH (80°-90°)	211.9	2.7			G2/225
BL (0°-30°)	371.3	4.8	B1/500		
BM (30°-60°)	839.0	10.8	B1/1000		
BH (60°-80°)	323.5	4.2	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
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°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	1205.3	1214.4	1234.7	1245.4	1262.0	1263.1	1263.1	1248.6	1248.1	1218.7
5°	1347.1	1368.5	1416.7	1466.5	1477.2	1479.8	1474.5	1445.6	1424.2	1366.9
7.5°	1487.9	1529.1	1602.4	1668.8	1690.2	1690.2	1677.3	1630.2	1586.3	1503.4
10°	1604.5	1656.5	1756.0	1830.4	1855.0	1849.7	1823.4	1764.0	1703.6	1602.9
12.5°	1681.6	1739.9	1849.1	1909.1	1934.2	1920.3	1890.3	1832.5	1768.8	1662.9
15°	1720.1	1781.2	1875.9	1907.5	1900.5	1886.1	1882.3	1854.5	1806.3	1707.3
17.5°	1736.7	1793.5	1859.3	1839.5	1780.6	1769.4	1806.8	1842.2	1830.4	1745.8
20°	1752.3	1799.9	1819.7	1731.9	1629.2	1619.0	1690.7	1791.3	1842.7	1781.7
22.5°	1773.7	1803.1	1762.4	1618.5	1507.7	1484.1	1563.3	1714.8	1846.5	1827.2
25°	1803.1	1811.1	1699.3	1510.9	1399.6	1376.0	1449.9	1629.7	1840.0	1876.4
27.5°	1838.4	1821.8	1638.8	1421.0	1313.4	1291.4	1365.3	1547.8	1821.8	1925.7
30°	1884.4	1835.7	1578.8	1351.4	1251.8	1235.8	1307.0	1477.2	1799.4	1988.3
32.5°	1931.0	1841.6	1523.2	1310.7	1237.9	1243.8	1302.1	1439.2	1774.7	2048.2
35°	1981.3	1860.4	1495.9	1350.9	1354.1	1405.4	1429.5	1474.5	1771.0	2129.6
37.5°	2049.8	1902.1	1528.5	1550.5	1661.8	1768.3	1748.5	1647.4	1814.3	2251.1
40°	2148.3	1975.4	1670.9	1890.3	2118.9	2291.7	2216.3	1961.5	1947.1	2426.1
42.5°	2291.7	2092.1	1923.5	2305.7	2693.1	2977.9	2775.6	2366.7	2179.3	2676.0
45°	2503.7	2281.0	2229.1	2744.0	3401.2	3849.7	3429.0	2798.6	2504.7	3054.4
47.5°	2797.5	2558.8	2515.5	3205.9	4261.8	4842.0	4153.7	3198.9	2875.1	3570.3
50°	3187.7	2932.9	2786.8	3711.1	5205.4	5853.5	4877.8	3585.3	3299.5	4200.8
52.5°	3702.5	3454.7	3103.1	4192.2	6175.7	6843.6	5605.2	3924.6	3826.2	4932.4
55°	4404.7	4239.9	3535.6	4651.4	7145.5	7839.7	6304.2	4244.7	4521.9	5801.6
57.5°	5276.0	5393.8	4159.1	5184.0	8017.3	8866.2	7006.3	4692.1	5425.4	6773.5
60°	5838.0	6928.2	5353.1	5971.3	9008.0	10027.0	7968.6	5543.1	6374.8	7121.9
62.5°	5702.1	7416.3	6783.2	6976.4	9918.9	10871.0	8911.7	6397.8	6553.6	6608.7
65°	5285.1	7022.4	6491.5	7171.7	10149.6	10918.7	9163.7	6287.6	5559.2	5395.4
67.5°	4711.4	6555.2	5798.4	6653.6	9732.7	10252.9	8694.4	5561.8	4296.1	4048.8
70°	4092.2	6038.2	5343.5	6072.4	8937.9	9092.6	7896.4	4891.8	3159.8	2734.4
72.5°	3504.5	5499.7	5032.0	5476.7	7877.7	7557.6	6857.6	4299.3	2300.8	1972.2
75°	2903.5	4705.5	4588.3	4769.2	6483.4	5953.1	5697.8	3559.6	1805.8	1426.9
77.5°	2240.4	3676.8	3946.6	3819.2	4563.7	4421.8	4416.5	2674.9	1319.3	952.1
80°	1533.4	2562.6	3083.3	2694.2	2961.8	2889.6	3326.3	1794.5	956.9	573.2
82.5°	901.3	1560.1	2146.2	1304.3	1637.7	1681.1	1980.8	872.9	563.0	132.2
85°	365.5	616.0	839.2	510.6	790.0	666.3	752.0	245.1	156.8	3.2
87.5°	92.1	197.0	138.1	57.3	91.5	84.0	66.4	30.0	6.4	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°
1075.8	0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
1215.4	2.5°	1194.6	1182.3	1151.8	1121.3	1096.6	1063.4	1041.5	1015.3	990.1	967.6
1354.6	5°	1320.9	1280.2	1224.5	1173.7	1121.8	1071.5	1021.7	969.3	921.1	891.6
1472.3	7.5°	1423.6	1351.9	1278.1	1213.3	1150.7	1091.8	1026.0	962.3	886.8	846.7
1562.3	10°	1500.2	1406.0	1309.1	1234.7	1171.6	1114.3	1058.6	994.4	903.4	853.1
1616.8	12.5°	1550.5	1438.6	1325.2	1240.1	1169.4	1125.0	1100.4	1075.2	984.8	925.9
1657.0	15°	1585.3	1461.6	1336.4	1227.8	1141.1	1108.4	1133.0	1161.9	1104.1	1036.2
1698.7	17.5°	1623.3	1491.6	1341.2	1194.6	1085.9	1072.0	1135.7	1202.6	1199.9	1132.5
1738.3	20°	1663.4	1517.8	1338.0	1141.1	1019.0	1031.3	1112.7	1190.3	1222.9	1186.5
1783.8	22.5°	1704.6	1543.0	1325.7	1071.5	956.4	994.9	1076.3	1144.3	1182.8	1171.6
1839.5	25°	1756.5	1578.3	1307.5	996.5	904.5	958.0	1034.0	1089.1	1115.9	1115.4
1899.4	27.5°	1818.6	1625.4	1297.9	936.1	867.6	916.3	983.7	1032.9	1051.7	1051.7
1973.8	30°	1890.9	1681.1	1287.2	896.5	846.2	872.9	925.4	973.5	992.3	992.3
2055.2	32.5°	1971.2	1734.6	1261.5	872.4	830.1	830.6	863.8	907.7	930.2	933.4
2156.9	35°	2067.5	1791.9	1205.3	853.1	811.4	789.4	805.5	841.9	868.6	875.6
2301.9	37.5°	2193.8	1862.0	1125.0	824.7	782.5	746.1	749.8	777.6	807.1	817.8
2502.1	40°	2363.5	1944.4	1041.5	784.1	741.8	698.4	696.8	717.2	746.1	757.8
2772.9	42.5°	2587.7	2043.4	961.8	745.0	692.6	648.1	645.5	661.5	686.7	699.0
3130.4	45°	2874.6	2164.9	893.3	714.5	644.4	600.5	599.4	612.8	634.8	647.6
3588.0	47.5°	3273.3	2286.4	846.7	698.4	606.4	561.4	563.6	575.3	595.1	604.2
4180.5	50°	3793.0	2323.3	823.1	698.4	586.0	526.6	537.3	547.0	562.0	567.3
4890.7	52.5°	4291.8	2201.3	801.7	702.7	588.7	497.2	520.2	527.2	540.0	542.2
5549.0	55°	4536.4	1892.5	772.3	703.8	605.3	472.0	506.3	519.1	524.0	523.4
5931.1	57.5°	4452.4	1530.1	722.5	699.5	616.6	456.0	489.2	513.8	517.0	512.2
5858.3	60°	4157.5	1126.6	684.5	667.9	612.3	451.2	463.0	502.0	506.8	500.4
5297.4	62.5°	3662.9	781.9	655.1	598.4	593.5	449.6	421.7	476.3	488.1	479.0
4258.1	65°	2883.7	552.3	564.1	524.5	552.9	441.0	378.9	445.3	461.3	447.4
3089.2	67.5°	1951.3	398.7	457.1	475.3	487.0	421.7	347.9	410.0	431.4	413.2
1982.4	70°	1053.8	279.9	301.9	400.3	413.7	388.6	320.1	374.1	398.7	378.9
1409.2	72.5°	622.4	201.2	211.4	321.7	344.7	342.0	289.0	332.4	362.3	338.8
972.5	75°	343.1	135.9	150.9	233.3	279.9	263.9	248.3	281.5	312.0	289.0
609.6	77.5°	153.6	81.4	104.9	153.1	220.0	180.9	192.1	219.4	247.8	223.7
339.3	80°	59.4	45.5	69.6	83.5	160.0	100.1	123.6	161.6	182.0	162.7
73.9	82.5°	7.5	20.3	30.0	32.6	93.1	53.0	71.7	101.7	100.1	86.7
0.0	85°	0.0	3.7	4.3	2.1	40.1	19.3	23.5	33.2	31.0	23.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°
1075.8	0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
963.4	2.5°	937.1	917.9	908.2	900.2	907.7	912.0	912.0	930.2	940.9	945.2
872.9	5°	825.8	790.0	765.9	751.4	756.2	761.6	767.5	790.5	806.0	816.2
810.3	7.5°	738.0	683.5	649.7	632.1	634.8	638.5	643.3	665.8	681.3	694.7
798.5	10°	694.7	617.6	573.2	551.8	548.0	545.9	544.3	557.7	569.5	580.2
846.7	12.5°	696.8	589.3	535.2	509.0	497.7	484.9	474.7	476.9	484.4	497.7
932.9	15°	724.1	580.2	515.4	482.8	464.0	449.0	436.7	434.0	436.7	438.9
1031.3	17.5°	761.1	579.1	498.3	457.6	438.3	426.0	414.8	411.0	411.6	414.2
1096.6	20°	790.5	575.9	479.0	433.5	416.4	405.7	394.4	390.7	391.8	392.3
1103.1	22.5°	806.0	571.1	457.6	409.4	395.0	384.3	374.1	373.6	373.6	376.8
1068.3	25°	806.0	560.9	438.3	386.4	373.6	363.9	351.6	353.8	354.8	359.1
1014.2	27.5°	786.7	541.6	422.8	366.6	353.2	343.6	332.4	335.0	336.6	341.5
960.7	30°	762.1	518.6	405.1	347.9	332.4	325.4	315.8	316.8	319.0	324.3
910.9	32.5°	735.9	491.3	390.7	329.1	313.6	308.3	297.6	299.2	301.3	307.2
861.7	35°	707.0	459.2	373.6	312.0	296.5	292.2	279.9	281.0	284.2	290.6
808.7	37.5°	676.5	433.0	356.4	295.4	279.4	275.1	262.2	263.3	267.1	274.6
753.0	40°	646.5	407.3	338.2	277.8	261.7	258.0	244.1	245.1	249.4	257.4
696.8	42.5°	613.9	387.5	314.7	259.6	242.4	238.7	225.9	227.5	232.3	240.3
644.9	45°	574.8	374.6	288.5	242.4	223.2	219.4	207.7	210.9	216.2	224.3
600.5	47.5°	534.7	369.3	266.5	224.3	203.4	200.2	190.5	195.9	201.8	208.2
562.5	50°	496.1	362.3	244.1	207.1	186.3	183.0	176.6	183.6	189.5	195.3
535.2	52.5°	452.2	347.3	223.7	192.1	171.8	170.7	167.5	173.9	179.3	184.6
511.7	55°	406.8	323.3	206.1	178.8	159.5	160.6	159.0	164.3	168.6	173.4
490.2	57.5°	367.1	292.8	192.1	164.3	148.8	152.0	149.9	152.5	155.2	161.1
464.6	60°	327.0	256.4	176.6	147.2	138.1	141.8	135.9	135.4	136.5	138.1
426.6	62.5°	273.0	218.4	157.3	132.2	126.3	127.9	116.7	108.1	108.1	109.7
373.6	65°	219.4	183.0	135.9	115.1	110.3	109.2	93.1	81.4	80.3	85.1
312.0	67.5°	180.4	152.0	114.5	95.8	92.6	93.7	81.9	70.1	69.0	74.4
254.2	70°	149.3	122.6	91.5	73.9	77.1	81.9	70.1	58.9	57.3	62.1
206.6	72.5°	118.8	95.8	70.1	54.6	63.7	69.6	57.3	46.6	45.5	49.8
159.5	75°	87.2	68.5	47.6	39.6	49.2	54.6	41.7	33.2	31.6	35.3
106.5	77.5°	54.1	38.5	30.0	23.5	33.7	36.4	21.9	19.3	18.7	21.4
64.8	80°	25.2	16.6	14.5	8.0	12.3	14.5	9.1	10.2	10.7	12.8
32.6	82.5°	7.0	2.7	0.5	0.0	0.0	4.3	2.1	4.3	5.4	8.0
2.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	4.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1075.8	0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
975.1	2.5°	997.6	1019.0	1053.3	1088.6	1123.4	1158.7	1193.0	1205.3
862.7	5°	905.0	954.3	1022.2	1095.0	1170.0	1246.0	1315.5	1347.1
746.6	7.5°	801.7	872.4	974.6	1088.6	1208.0	1327.3	1437.0	1487.9
631.5	10°	691.5	780.9	897.5	1051.7	1222.9	1387.8	1538.7	1604.5
530.4	12.5°	586.6	680.2	809.2	993.9	1211.2	1422.6	1604.0	1681.6
459.2	15°	498.8	581.8	720.9	925.4	1173.2	1424.7	1635.0	1720.1
419.6	17.5°	433.0	487.0	631.0	849.4	1123.4	1404.9	1645.7	1736.7
398.2	20°	400.3	415.3	514.3	752.0	1076.8	1386.2	1656.5	1752.3
381.1	22.5°	381.1	384.8	420.7	626.2	1021.2	1380.3	1675.2	1773.7
365.5	25°	365.5	366.6	376.2	496.1	936.1	1376.5	1704.1	1803.1
349.5	27.5°	350.0	350.0	355.4	399.8	820.5	1360.5	1741.6	1838.4
333.4	30°	334.5	334.5	338.2	353.8	685.1	1328.9	1786.5	1884.4
317.4	32.5°	318.4	318.4	321.7	332.9	547.0	1289.3	1827.7	1931.0
300.8	35°	302.4	301.3	305.6	317.4	435.1	1239.0	1868.9	1981.3
284.2	37.5°	285.3	284.7	289.0	302.4	375.7	1180.7	1900.0	2049.8
267.6	40°	267.1	267.1	271.9	286.3	358.6	1107.3	1949.2	2148.3
250.5	42.5°	250.5	249.4	254.8	272.4	345.7	1037.2	2037.5	2291.7
235.0	45°	234.4	232.3	237.1	259.0	323.3	1012.6	2202.4	2503.7
220.0	47.5°	219.4	214.1	218.4	243.0	302.9	1104.7	2472.1	2797.5
206.6	50°	207.1	197.0	200.7	226.9	287.4	1304.3	2822.1	3187.7
194.3	52.5°	194.3	180.9	183.0	207.1	273.5	1494.3	3201.6	3702.5
182.0	55°	180.9	165.9	167.0	187.3	253.7	1522.7	3571.9	4404.7
168.1	57.5°	165.9	152.0	152.0	169.1	239.2	1319.8	3856.7	5276.0
150.9	60°	149.3	140.2	137.5	154.7	252.1	931.3	3889.9	5838.0
129.0	62.5°	131.1	126.3	122.6	140.8	261.7	551.8	3622.8	5702.1
101.7	65°	110.3	109.2	106.5	154.7	220.5	325.9	3110.1	5285.1
86.7	67.5°	92.6	91.0	91.0	162.2	167.5	205.0	2429.8	4711.4
73.9	70°	79.7	73.9	73.9	122.6	101.7	141.8	1696.6	4092.2
61.0	72.5°	66.9	60.5	56.2	97.9	76.0	103.8	1060.2	3504.5
46.6	75°	53.5	48.7	43.4	64.8	56.7	78.7	616.0	2903.5
29.4	77.5°	38.5	36.4	30.5	47.6	41.2	56.7	366.6	2240.4
18.2	80°	19.8	20.3	19.3	27.3	27.8	38.5	208.7	1533.4
11.8	82.5°	11.8	9.1	10.2	13.4	16.1	21.9	78.7	901.3
8.6	85°	7.5	4.8	4.8	6.4	8.0	8.6	24.1	365.5
4.3	87.5°	3.7	1.6	2.1	3.2	2.7	2.1	1.1	92.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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