

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: P947149

Luminaire Tested: **GALN-SB2C-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947149
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 10271 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

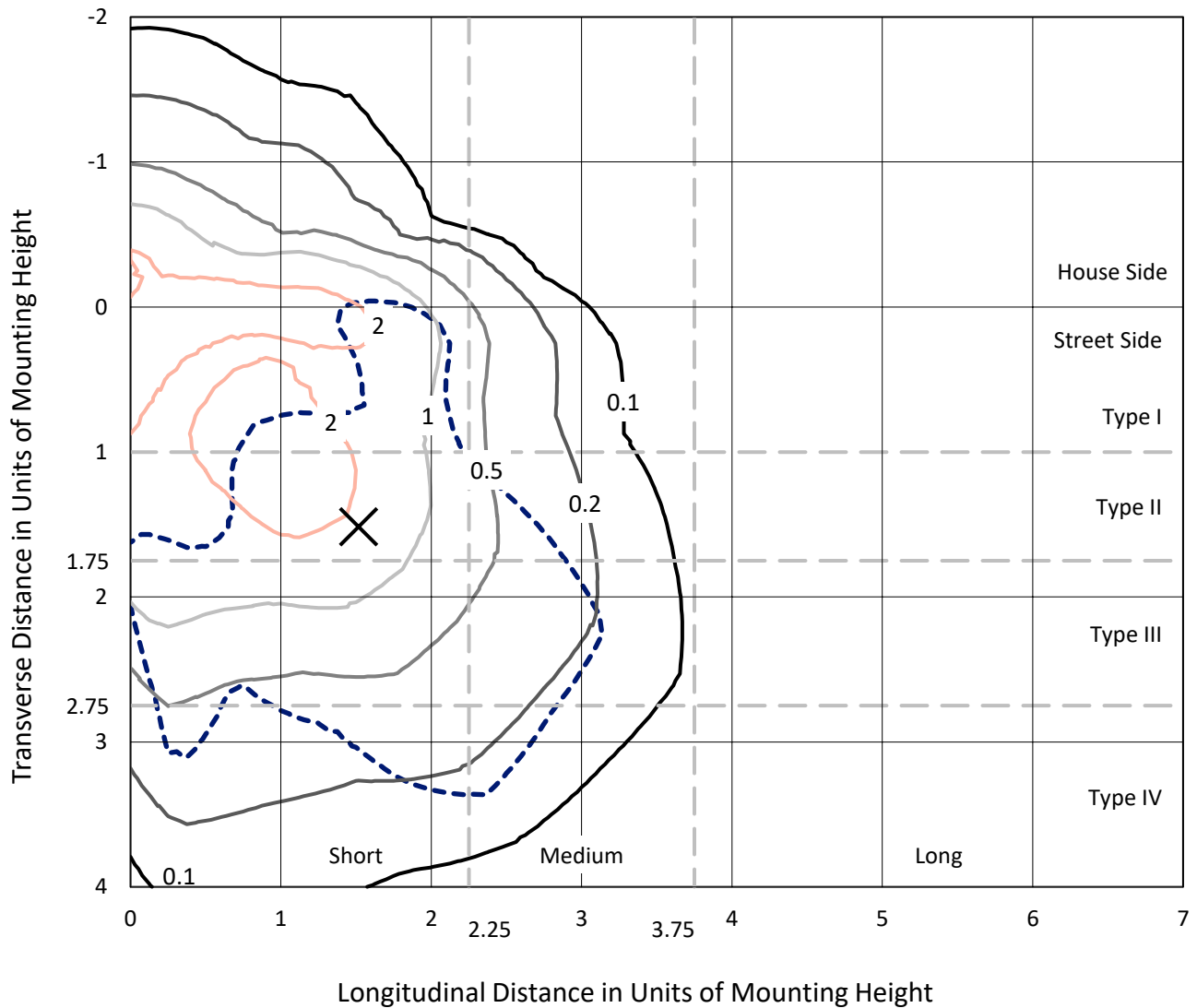
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

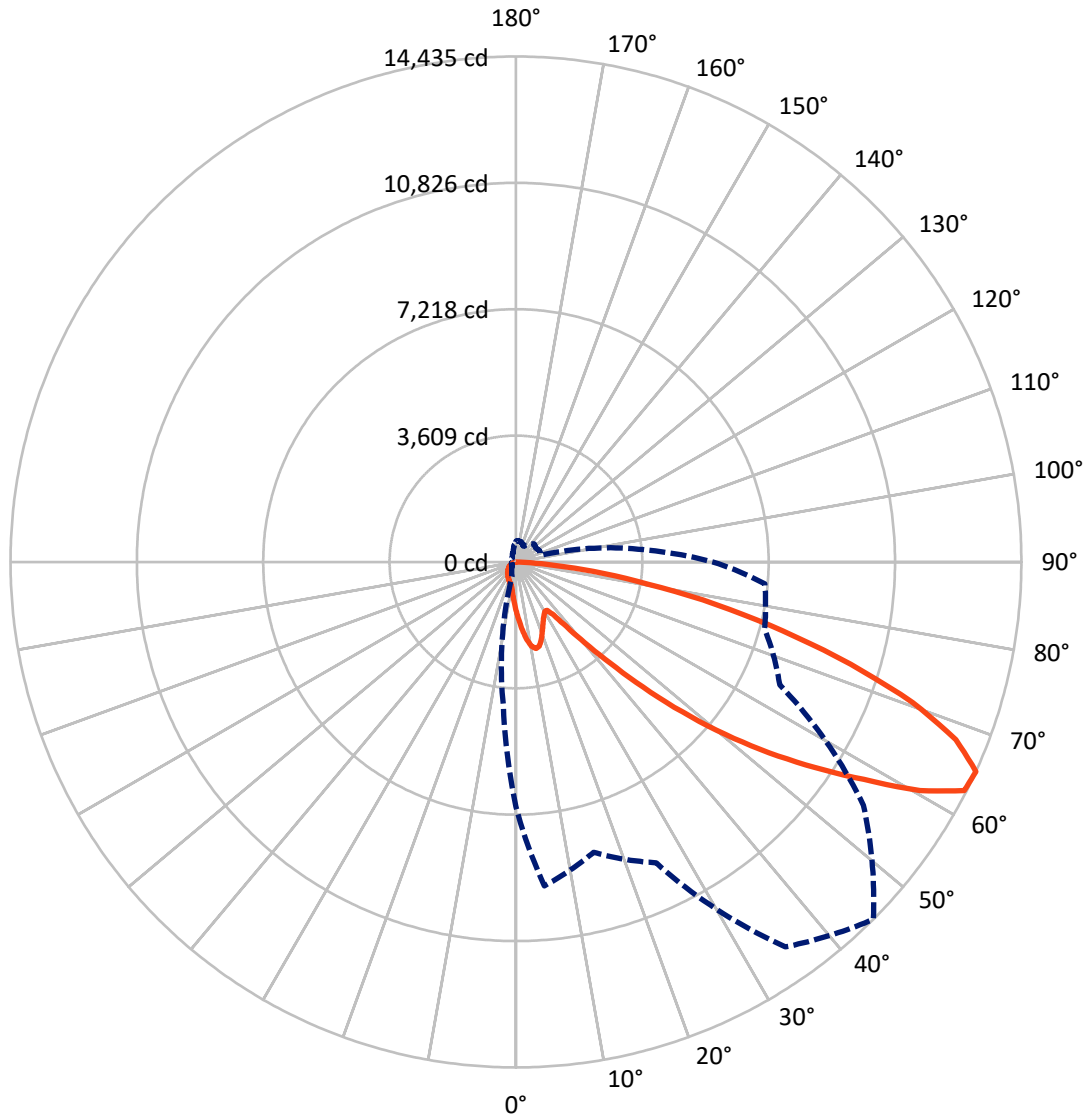
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	2041.6	0.0	2041.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	8229.4	0.0	8229.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	10271.0	0.0	10271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.4
10°-20°	419.7	4.1
20°-30°	618.4	6.0
30°-40°	794.4	7.7
40°-50°	1284.8	12.5
50°-60°	2253.1	21.9
60°-70°	2819.2	27.4
70°-80°	1647.4	16.0
80°-90°	293.9	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°	10271.0	100.0
0°-180°	10271.0	100.0

Coefficient of Utilization



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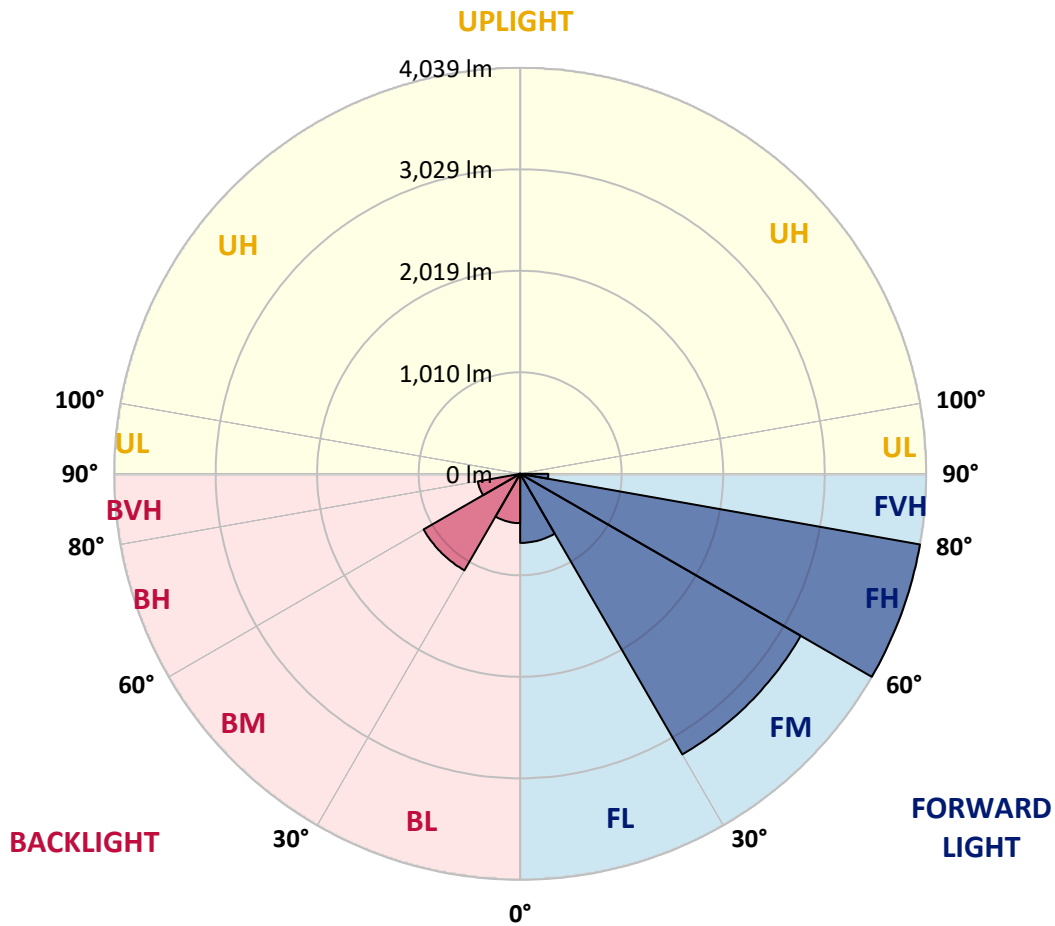
CATALOG NUMBER: GALN-SB2C-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.2	6.7			
FM (30°-60°)	3223.2	31.4			
FH (60°-80°)	4038.9	39.3			G2/5000
FVH (80°-90°)	280.2	2.7			G3/500
BL (0°-30°)	490.9	4.8	B1/500		
BM (30°-60°)	1109.2	10.8	B2/2500		
BH (60°-80°)	427.7	4.2	B1/500		G1/500
BVH (80°-90°)	13.8	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°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
2.5°	1593.4	1605.5	1632.4	1646.5	1668.4	1669.9	1669.9	1650.7	1650.0	1611.1
5°	1780.9	1809.2	1872.9	1938.7	1952.9	1956.4	1949.3	1911.1	1882.8	1807.1
7.5°	1967.0	2021.5	2118.4	2206.2	2234.5	2234.5	2217.5	2155.2	2097.2	1987.5
10°	2121.3	2189.9	2321.5	2419.9	2452.4	2445.3	2410.7	2332.1	2252.2	2119.2
12.5°	2223.2	2300.3	2444.6	2523.9	2557.1	2538.7	2499.1	2422.7	2338.5	2198.4
15°	2274.1	2354.8	2480.0	2521.8	2512.6	2493.5	2488.5	2451.7	2388.0	2257.1
17.5°	2296.0	2371.0	2458.1	2431.9	2354.1	2339.2	2388.7	2435.4	2419.9	2308.1
20°	2316.6	2379.5	2405.7	2289.7	2153.8	2140.4	2235.2	2368.2	2436.1	2355.5
22.5°	2344.9	2383.8	2330.0	2139.7	1993.2	1962.1	2066.8	2267.0	2441.1	2415.6
25°	2383.8	2394.4	2246.5	1997.5	1850.3	1819.1	1916.8	2154.5	2432.6	2480.7
27.5°	2430.5	2408.5	2166.6	1878.6	1736.4	1707.4	1805.0	2046.3	2408.5	2545.8
30°	2491.3	2426.9	2087.3	1786.6	1655.0	1633.8	1727.9	1952.9	2378.8	2628.6
32.5°	2552.9	2434.7	2013.7	1732.8	1636.6	1644.4	1721.5	1902.6	2346.3	2707.8
35°	2619.4	2459.5	1977.6	1785.9	1790.1	1858.1	1889.9	1949.3	2341.3	2815.4
37.5°	2710.0	2514.7	2020.8	2049.8	2197.0	2337.8	2311.6	2177.9	2398.6	2976.0
40°	2840.2	2611.6	2209.0	2499.1	2801.2	3029.8	2930.0	2593.2	2574.1	3207.4
42.5°	3029.8	2765.9	2543.0	3048.2	3560.5	3936.9	3669.4	3128.9	2881.2	3537.8
45°	3310.0	3015.6	2947.0	3627.7	4496.6	5089.5	4533.4	3699.9	3311.4	4038.1
47.5°	3698.4	3382.9	3325.6	4238.3	5634.3	6401.3	5491.4	4229.1	3801.0	4720.2
50°	4214.3	3877.5	3684.3	4906.3	6881.8	7738.6	6448.7	4740.0	4362.1	5553.7
52.5°	4894.9	4567.3	4102.5	5542.4	8164.6	9047.6	7410.3	5188.6	5058.4	6520.9
55°	5823.3	5605.3	4674.2	6149.4	9446.7	10364.4	8334.4	5611.7	5978.2	7670.0
57.5°	6975.2	7130.8	5498.5	6853.5	10599.3	11721.5	9262.7	6203.2	7172.6	8954.9
60°	7718.1	9159.4	7077.1	7894.3	11909.0	13256.2	10534.9	7328.2	8427.8	9415.6
62.5°	7538.4	9804.7	8967.7	9223.1	13113.3	14372.1	11781.7	8458.2	8664.1	8737.0
65°	6987.2	9284.0	8582.1	9481.4	13418.3	14435.0	12114.9	8312.5	7349.5	7133.0
67.5°	6228.7	8666.3	7665.8	8796.4	12867.1	13554.8	11494.4	7353.0	5679.6	5352.7
70°	5410.0	7982.7	7064.3	8028.0	11816.3	12020.8	10439.4	6467.1	4177.5	3614.9
72.5°	4633.1	7270.9	6652.5	7240.5	10414.6	9991.5	9066.0	5683.9	3041.8	2607.4
75°	3838.5	6220.9	6066.0	6305.1	8571.4	7870.2	7532.7	4706.0	2387.3	1886.4
77.5°	2961.9	4861.0	5217.6	5049.2	6033.4	5845.9	5838.8	3536.4	1744.1	1258.8
80°	2027.2	3387.8	4076.3	3561.9	3915.7	3820.1	4397.5	2372.5	1265.1	757.8
82.5°	1191.5	2062.6	2837.3	1724.3	2165.1	2222.5	2618.7	1154.0	744.4	174.8
85°	483.3	814.4	1109.5	675.0	1044.4	880.9	994.1	324.1	207.3	4.2
87.5°	121.7	260.4	182.6	75.7	121.0	111.1	87.7	39.6	8.5	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°
1422.2	0°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
1606.9	2.5°	1579.3	1563.0	1522.7	1482.3	1449.8	1405.9	1376.9	1342.3	1309.0	1279.3
1790.8	5°	1746.3	1692.5	1618.9	1551.7	1483.1	1416.5	1350.7	1281.4	1217.7	1178.8
1946.5	7.5°	1882.1	1787.3	1689.7	1604.0	1521.3	1443.4	1356.4	1272.2	1172.4	1119.4
2065.4	10°	1983.3	1858.8	1730.7	1632.4	1548.9	1473.1	1399.6	1314.7	1194.4	1127.9
2137.6	12.5°	2049.8	1901.9	1751.9	1639.4	1546.0	1487.3	1454.8	1421.5	1301.9	1224.1
2190.6	15°	2095.8	1932.4	1766.8	1623.2	1508.5	1465.4	1497.9	1536.1	1459.7	1369.8
2245.8	17.5°	2146.0	1972.0	1773.2	1579.3	1435.6	1417.3	1501.5	1589.9	1586.4	1497.2
2298.2	20°	2199.1	2006.7	1768.9	1508.5	1347.2	1363.5	1471.0	1573.6	1616.8	1568.7
2358.3	22.5°	2253.6	2039.9	1752.6	1416.5	1264.4	1315.4	1422.9	1512.8	1563.7	1548.9
2431.9	25°	2322.2	2086.6	1728.6	1317.5	1195.8	1266.5	1367.0	1439.9	1475.3	1474.6
2511.1	27.5°	2404.3	2148.9	1715.8	1237.5	1147.0	1211.4	1300.5	1365.6	1390.4	1390.4
2609.5	30°	2499.8	2222.5	1701.7	1185.2	1118.7	1154.0	1223.4	1287.1	1311.8	1311.8
2717.0	32.5°	2606.0	2293.2	1667.7	1153.3	1097.4	1098.1	1142.0	1200.0	1229.7	1234.0
2851.5	35°	2733.3	2368.9	1593.4	1127.9	1072.7	1043.7	1064.9	1113.0	1148.4	1157.6
3043.2	37.5°	2900.3	2461.6	1487.3	1090.4	1034.5	986.3	991.3	1028.1	1067.0	1081.2
3307.9	40°	3124.6	2570.6	1376.9	1036.6	980.7	923.4	921.2	948.1	986.3	1001.9
3665.9	42.5°	3421.1	2701.5	1271.5	984.9	915.6	856.9	853.3	874.5	907.8	924.1
4138.5	45°	3800.3	2862.1	1180.9	944.6	851.9	793.9	792.5	810.2	839.2	856.2
4743.5	47.5°	4327.5	3022.7	1119.4	923.4	801.7	742.2	745.1	760.6	786.8	798.8
5526.8	50°	5014.5	3071.5	1088.2	923.4	774.8	696.2	710.4	723.1	742.9	750.0
6465.7	52.5°	5674.0	2910.2	1059.9	929.0	778.3	657.3	687.8	697.0	713.9	716.8
7336.0	55°	5997.3	2501.9	1021.0	930.4	800.3	624.1	669.4	686.3	692.7	692.0
7841.2	57.5°	5886.2	2022.9	955.2	924.8	815.1	602.8	646.7	679.3	683.5	677.1
7745.0	60°	5496.4	1489.4	905.0	883.0	809.5	596.5	612.0	663.7	670.1	661.6
7003.5	62.5°	4842.6	1033.8	866.1	791.1	784.7	594.4	557.6	629.7	645.3	633.3
5629.4	65°	3812.4	730.2	745.8	693.4	730.9	583.0	501.0	588.7	609.9	591.5
4084.1	67.5°	2579.8	527.1	604.3	628.3	643.9	557.6	459.9	542.0	570.3	546.2
2620.8	70°	1393.2	370.1	399.1	529.3	546.9	513.7	423.1	494.6	527.1	501.0
1863.0	72.5°	822.9	266.0	279.5	425.2	455.7	452.1	382.1	439.4	479.0	447.9
1285.6	75°	453.5	179.7	199.5	308.5	370.1	348.8	328.3	372.2	412.5	382.1
805.9	77.5°	203.1	107.5	138.7	202.4	290.8	239.2	254.0	290.1	327.6	295.8
448.6	80°	78.5	60.1	92.0	110.4	211.6	132.3	163.4	213.7	240.6	215.1
97.6	82.5°	9.9	26.9	39.6	43.2	123.1	70.0	94.8	134.4	132.3	114.6
0.0	85°	0.0	5.0	5.7	2.8	53.1	25.5	31.1	43.9	41.0	31.1
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°
1422.2	0°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
1273.6	2.5°	1238.9	1213.5	1200.7	1190.1	1200.0	1205.7	1205.7	1229.7	1243.9	1249.6
1154.0	5°	1091.8	1044.4	1012.5	993.4	999.8	1006.9	1014.6	1045.1	1065.6	1079.0
1071.3	7.5°	975.7	903.6	859.0	835.6	839.2	844.1	850.5	880.2	900.7	918.4
1055.7	10°	918.4	816.5	757.8	729.5	724.5	721.7	719.6	737.3	752.8	767.0
1119.4	12.5°	921.2	779.0	707.6	672.9	658.0	641.1	627.6	630.4	640.3	658.0
1233.3	15°	957.3	767.0	681.4	638.2	613.5	593.6	577.4	573.8	577.4	580.2
1363.5	17.5°	1006.2	765.6	658.7	605.0	579.5	563.2	548.4	543.4	544.1	547.7
1449.8	20°	1045.1	761.3	633.3	573.1	550.5	536.3	521.5	516.5	517.9	518.6
1458.3	22.5°	1065.6	755.0	605.0	541.3	522.2	508.0	494.6	493.9	493.9	498.1
1412.3	25°	1065.6	741.5	579.5	510.9	493.9	481.1	464.9	467.7	469.1	474.8
1340.8	27.5°	1040.1	716.1	559.0	484.7	467.0	454.3	439.4	442.9	445.1	451.4
1270.1	30°	1007.6	685.6	535.6	459.9	439.4	430.2	417.5	418.9	421.7	428.8
1204.3	32.5°	972.9	649.5	516.5	435.2	414.6	407.6	393.4	395.5	398.4	406.1
1139.2	35°	934.7	607.1	493.9	412.5	392.0	386.3	370.1	371.5	375.7	384.2
1069.1	37.5°	894.4	572.4	471.2	390.6	369.3	363.7	346.7	348.1	353.1	363.0
995.5	40°	854.7	538.5	447.2	367.2	346.0	341.0	322.6	324.1	329.7	340.3
921.2	42.5°	811.6	512.3	416.0	343.2	320.5	315.6	298.6	300.7	307.1	317.7
852.6	45°	759.9	495.3	381.4	320.5	295.1	290.1	274.5	278.8	285.9	296.5
793.9	47.5°	706.9	488.2	352.4	296.5	268.9	264.6	251.9	259.0	266.8	275.2
743.7	50°	655.9	479.0	322.6	273.8	246.2	242.0	233.5	242.7	250.5	258.3
707.6	52.5°	597.9	459.2	295.8	254.0	227.1	225.7	221.5	230.0	237.0	244.1
676.4	55°	537.7	427.4	272.4	236.3	210.9	212.3	210.1	217.2	222.9	229.3
648.1	57.5°	485.4	387.0	254.0	217.2	196.7	200.9	198.1	201.7	205.2	213.0
614.2	60°	432.3	338.9	233.5	194.6	182.6	187.5	179.7	179.0	180.4	182.6
563.9	62.5°	360.9	288.7	208.0	174.8	167.0	169.1	154.2	142.9	142.9	145.1
493.9	65°	290.1	242.0	179.7	152.1	145.8	144.3	123.1	107.5	106.1	112.5
412.5	67.5°	238.4	200.9	151.4	126.7	122.4	123.8	108.3	92.7	91.3	98.4
336.1	70°	197.4	162.0	121.0	97.6	101.9	108.3	92.7	77.8	75.7	82.1
273.1	72.5°	157.1	126.7	92.7	72.2	84.2	92.0	75.7	61.6	60.1	65.8
210.9	75°	115.3	90.6	63.0	52.4	65.1	72.2	55.2	43.9	41.7	46.7
140.8	77.5°	71.5	50.9	39.6	31.1	44.6	48.1	29.0	25.5	24.8	28.3
85.6	80°	33.3	21.9	19.1	10.6	16.3	19.1	12.0	13.4	14.2	17.0
43.2	82.5°	9.2	3.5	0.7	0.0	0.0	5.7	2.8	5.7	7.1	10.6
3.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.5	6.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°
1422.2	0°	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2	1422.2
1289.2	2.5°	1318.9	1347.2	1392.5	1439.2	1485.2	1531.9	1577.2	1593.4
1140.6	5°	1196.5	1261.6	1351.4	1447.7	1546.7	1647.2	1739.2	1780.9
987.1	7.5°	1059.9	1153.3	1288.5	1439.2	1597.0	1754.8	1899.8	1967.0
834.9	10°	914.2	1032.3	1186.6	1390.4	1616.8	1834.7	2034.2	2121.3
701.2	12.5°	775.5	899.3	1069.8	1313.9	1601.2	1880.7	2120.6	2223.2
607.1	15°	659.5	769.1	953.1	1223.4	1551.0	1883.5	2161.6	2274.1
554.7	17.5°	572.4	643.9	834.2	1122.9	1485.2	1857.4	2175.8	2296.0
526.4	20°	529.3	549.1	680.0	994.1	1423.6	1832.6	2189.9	2316.6
503.8	22.5°	503.8	508.7	556.1	827.9	1350.0	1824.8	2214.7	2344.9
483.3	25°	483.3	484.7	497.4	655.9	1237.5	1819.9	2252.9	2383.8
462.0	27.5°	462.7	462.7	469.8	528.6	1084.7	1798.6	2302.4	2430.5
440.8	30°	442.2	442.2	447.2	467.7	905.7	1756.9	2361.9	2491.3
419.6	32.5°	421.0	421.0	425.2	440.1	723.1	1704.5	2416.3	2552.9
397.7	35°	399.8	398.4	404.0	419.6	575.3	1638.0	2470.8	2619.4
375.7	37.5°	377.1	376.4	382.1	399.8	496.7	1560.9	2511.9	2710.0
353.8	40°	353.1	353.1	359.4	378.5	474.1	1464.0	2577.0	2840.2
331.1	42.5°	331.1	329.7	336.8	360.2	457.1	1371.3	2693.7	3029.8
310.6	45°	309.9	307.1	313.5	342.5	427.4	1338.7	2911.6	3310.0
290.8	47.5°	290.1	283.0	288.7	321.2	400.5	1460.4	3268.2	3698.4
273.1	50°	273.8	260.4	265.3	300.0	380.0	1724.3	3731.0	4214.3
256.8	52.5°	256.8	239.2	242.0	273.8	361.6	1975.5	4232.7	4894.9
240.6	55°	239.2	219.3	220.8	247.6	335.4	2013.0	4722.3	5823.3
222.2	57.5°	219.3	200.9	200.9	223.6	316.3	1744.9	5098.7	6975.2
199.5	60°	197.4	185.4	181.8	204.5	333.3	1231.2	5142.6	7718.1
170.5	62.5°	173.4	167.0	162.0	186.1	346.0	729.5	4789.5	7538.4
134.4	65°	145.8	144.3	140.8	204.5	291.5	430.9	4111.7	6987.2
114.6	67.5°	122.4	120.3	120.3	214.4	221.5	271.0	3212.3	6228.7
97.6	70°	105.4	97.6	97.6	162.0	134.4	187.5	2243.0	5410.0
80.7	72.5°	88.4	80.0	74.3	129.5	100.5	137.3	1401.7	4633.1
61.6	75°	70.8	64.4	57.3	85.6	75.0	104.0	814.4	3838.5
38.9	77.5°	50.9	48.1	40.3	63.0	54.5	75.0	484.7	2961.9
24.1	80°	26.2	26.9	25.5	36.1	36.8	50.9	276.0	2027.2
15.6	82.5°	15.6	12.0	13.4	17.7	21.2	29.0	104.0	1191.5
11.3	85°	9.9	6.4	6.4	8.5	10.6	11.3	31.8	483.3
5.7	87.5°	5.0	2.1	2.8	4.2	3.5	2.8	1.4	121.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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