

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: P947212

Luminaire Tested: **GALN-SB2C-850-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947212
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-850-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 10933 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

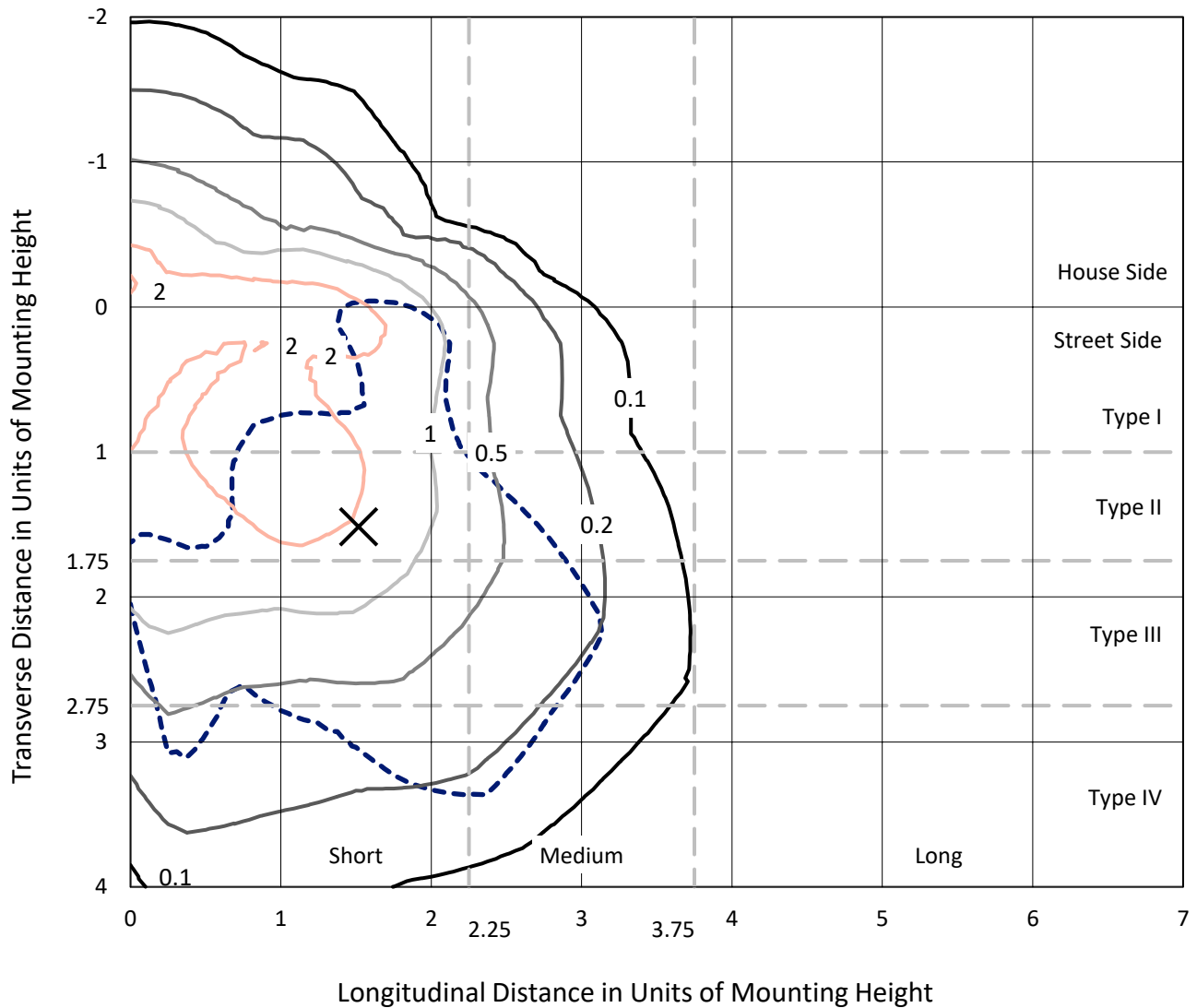
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

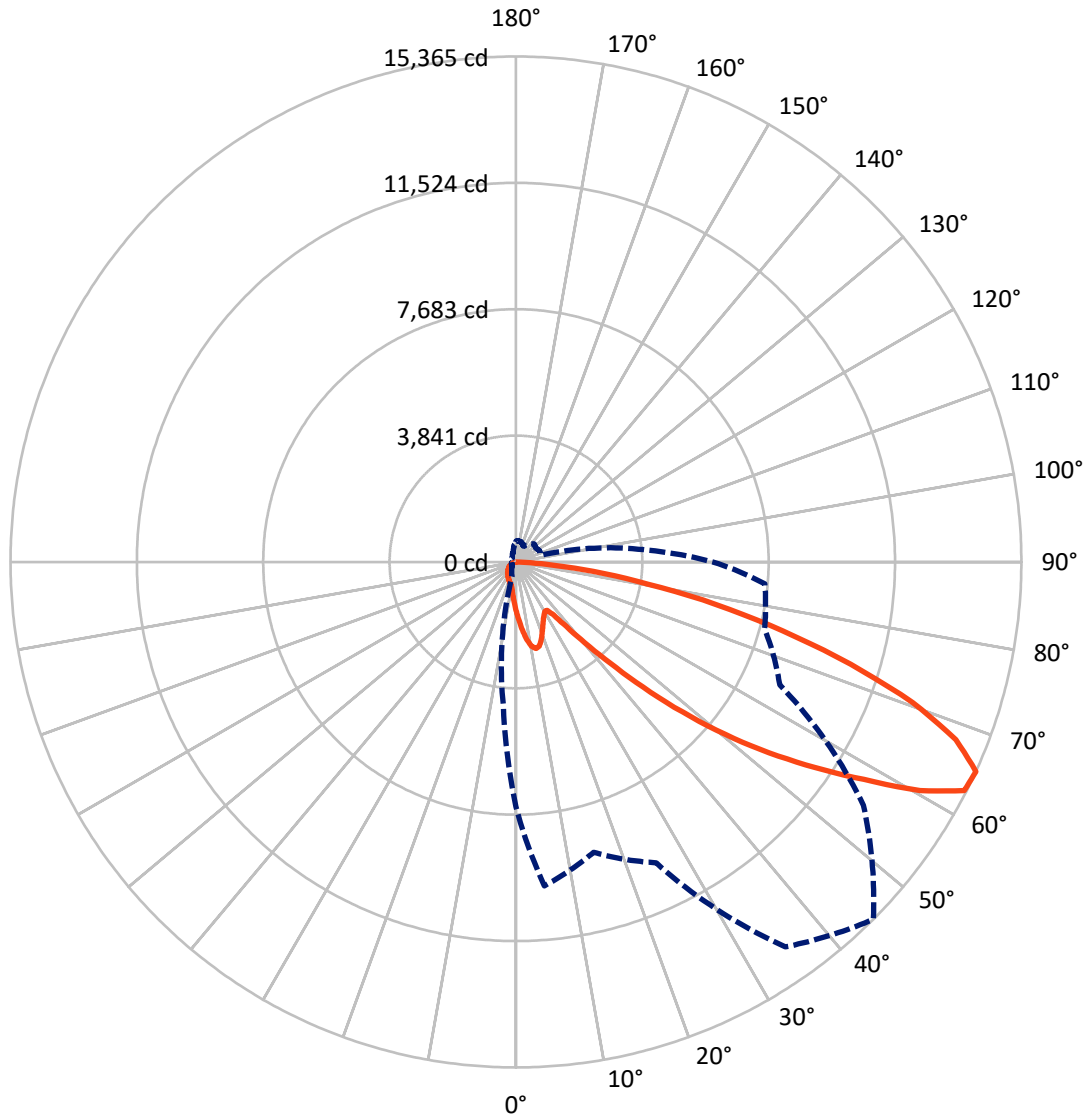
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	2173.1	0.0	2173.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	8759.9	0.0	8759.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	10933.0	0.0	10933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.4
10°-20°	446.8	4.1
20°-30°	658.2	6.0
30°-40°	845.6	7.7
40°-50°	1367.6	12.5
50°-60°	2398.3	21.9
60°-70°	3000.9	27.4
70°-80°	1753.6	16.0
80°-90°	312.9	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°	10933.0	100.0
0°-180°	10933.0	100.0

Coefficient of Utilization



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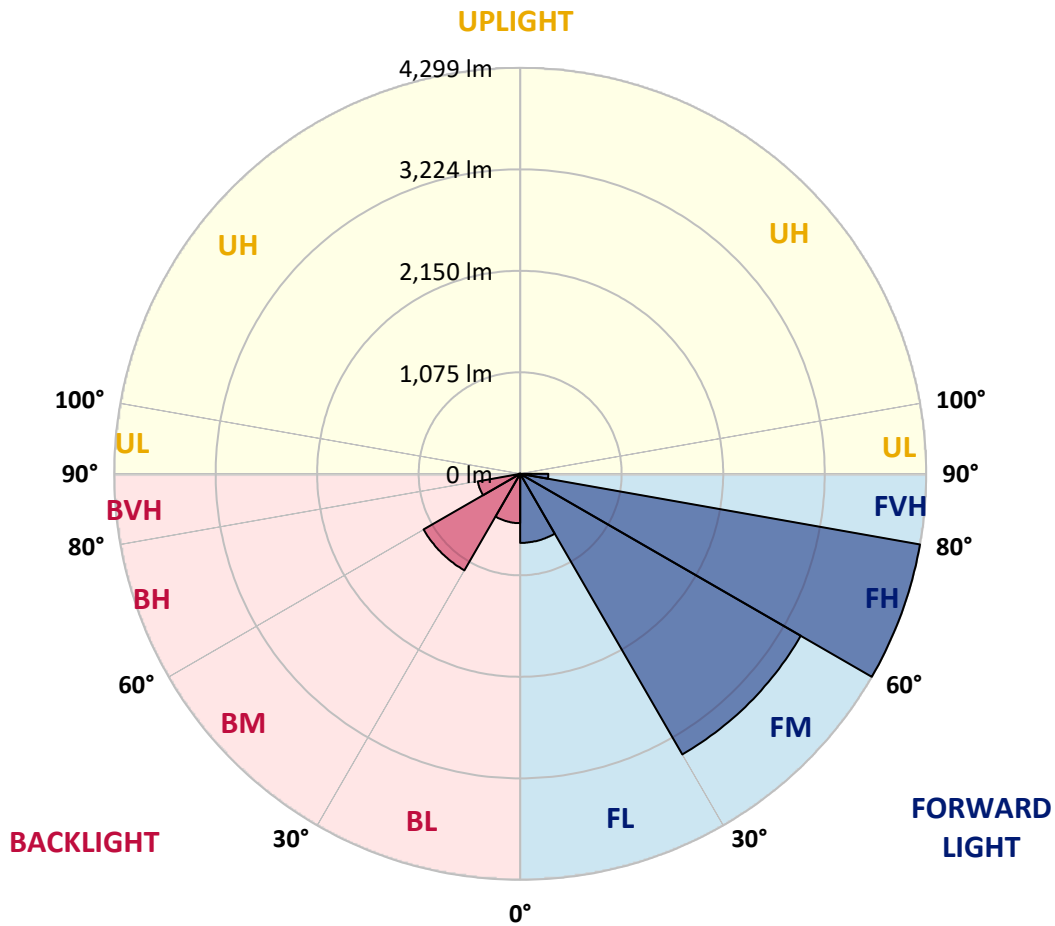
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.5	6.7			
FM (30°-60°)	3430.9	31.4			
FH (60°-80°)	4299.2	39.3			G2/5000
FVH (80°-90°)	298.2	2.7			G3/500
BL (0°-30°)	522.5	4.8	B2/1000		
BM (30°-60°)	1180.7	10.8	B2/2500		
BH (60°-80°)	455.3	4.2	B1/500		G1/500
BVH (80°-90°)	14.7	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°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
2.5°	1696.1	1708.9	1737.6	1752.6	1776.0	1777.5	1777.5	1757.1	1756.4	1715.0
5°	1895.7	1925.9	1993.6	2063.7	2078.7	2082.5	2075.0	2034.3	2004.2	1923.6
7.5°	2093.8	2151.8	2255.0	2348.4	2378.5	2378.5	2360.4	2294.2	2232.4	2115.7
10°	2258.0	2331.1	2471.1	2575.8	2610.5	2603.0	2566.0	2482.4	2397.3	2255.7
12.5°	2366.5	2448.6	2602.2	2686.6	2722.0	2702.4	2660.2	2578.9	2489.2	2340.1
15°	2420.7	2506.5	2639.9	2684.3	2674.5	2654.2	2648.9	2609.7	2541.9	2402.6
17.5°	2444.0	2523.9	2616.5	2588.6	2505.8	2490.0	2542.7	2592.4	2575.8	2456.8
20°	2465.9	2532.9	2560.8	2437.3	2292.6	2278.3	2379.3	2520.9	2593.2	2507.3
22.5°	2496.0	2537.4	2480.2	2277.6	2121.7	2088.5	2200.0	2413.2	2598.4	2571.3
25°	2537.4	2548.7	2391.3	2126.2	1969.5	1936.4	2040.3	2293.4	2589.4	2640.6
27.5°	2587.1	2563.8	2306.2	1999.7	1848.3	1817.4	1921.3	2178.2	2563.8	2709.9
30°	2651.9	2583.4	2221.8	1901.8	1761.7	1739.1	1839.2	2078.7	2532.2	2798.0
32.5°	2717.4	2591.7	2143.5	1844.5	1742.1	1750.4	1832.5	2025.3	2497.5	2882.4
35°	2788.2	2618.0	2105.1	1901.0	1905.5	1977.8	2011.7	2075.0	2492.2	2996.9
37.5°	2884.6	2676.8	2151.1	2181.9	2338.6	2488.5	2460.6	2318.3	2553.2	3167.8
40°	3023.2	2779.9	2351.4	2660.2	2981.8	3225.1	3118.9	2760.4	2740.0	3414.1
42.5°	3225.1	2944.1	2706.9	3244.7	3789.9	4190.6	3905.9	3330.5	3066.9	3765.8
45°	3523.3	3210.0	3137.0	3861.5	4786.4	5417.5	4825.6	3938.3	3524.8	4298.3
47.5°	3936.8	3600.9	3539.9	4511.5	5997.5	6813.9	5845.3	4501.7	4046.0	5024.4
50°	4485.9	4127.4	3921.8	5222.5	7325.3	8237.4	6864.4	5045.5	4643.3	5911.6
52.5°	5210.4	4861.7	4366.9	5899.6	8690.8	9630.8	7887.9	5523.0	5384.4	6941.2
55°	6198.6	5966.6	4975.4	6545.8	10055.6	11032.4	8871.6	5973.4	6363.5	8164.4
57.5°	7424.7	7590.4	5852.9	7295.2	11282.5	12477.0	9859.7	6603.0	7634.9	9532.1
60°	8215.6	9749.8	7533.2	8403.1	12676.6	14110.6	11213.9	7800.6	8971.0	10022.4
62.5°	8024.3	10436.7	9545.7	9817.6	13958.5	15298.4	12541.0	9003.4	9222.6	9300.1
65°	7437.5	9882.3	9135.2	10092.5	14283.1	15365.4	12895.8	8848.2	7823.2	7592.7
67.5°	6630.2	9224.8	8159.8	9363.4	13696.4	14428.5	12235.2	7826.9	6045.7	5697.7
70°	5758.7	8497.3	7519.6	8545.5	12577.9	12795.6	11112.3	6884.0	4446.7	3847.9
72.5°	4931.8	7739.6	7081.3	7707.2	11085.9	10635.5	9650.4	6050.2	3237.9	2775.4
75°	4085.9	6621.9	6456.9	6711.5	9123.9	8377.5	8018.2	5009.3	2541.2	2007.9
77.5°	3152.8	5174.3	5553.9	5374.6	6422.3	6222.7	6215.2	3764.3	1856.6	1339.9
80°	2157.8	3606.2	4339.0	3791.5	4168.0	4066.4	4680.9	2525.4	1346.7	806.6
82.5°	1268.3	2195.5	3020.2	1835.5	2304.7	2365.7	2787.5	1228.4	792.3	186.0
85°	514.4	866.9	1181.0	718.5	1111.7	937.7	1058.2	345.0	220.7	4.5
87.5°	129.5	277.2	194.3	80.6	128.8	118.2	93.4	42.2	9.0	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°
1513.9	0°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
1710.4	2.5°	1681.1	1663.8	1620.8	1577.9	1543.2	1496.5	1465.7	1428.8	1393.4	1361.7
1906.3	5°	1858.8	1801.6	1723.3	1651.7	1578.6	1507.8	1437.8	1364.0	1296.2	1254.8
2072.0	7.5°	2003.4	1902.5	1798.6	1707.4	1619.3	1536.5	1443.8	1354.2	1248.0	1191.5
2198.5	10°	2111.1	1978.6	1842.3	1737.6	1648.7	1568.1	1489.8	1399.4	1271.4	1200.6
2275.3	12.5°	2181.9	2024.5	1864.8	1745.1	1645.7	1583.2	1548.5	1513.1	1385.8	1303.0
2331.8	15°	2230.9	2056.9	1880.7	1727.8	1605.8	1559.8	1594.5	1635.1	1553.8	1458.1
2390.6	17.5°	2284.4	2099.1	1887.4	1681.1	1528.2	1508.6	1598.2	1692.4	1688.6	1593.7
2446.3	20°	2340.9	2136.0	1882.9	1605.8	1434.0	1451.4	1565.8	1675.0	1721.0	1669.8
2510.3	22.5°	2398.8	2171.4	1865.6	1507.8	1345.9	1400.1	1514.6	1610.3	1664.5	1648.7
2588.6	25°	2471.9	2221.1	1840.0	1402.4	1272.9	1348.2	1455.1	1532.7	1570.4	1569.6
2673.0	27.5°	2559.3	2287.4	1826.4	1317.3	1220.9	1289.4	1384.3	1453.6	1480.0	1480.0
2777.7	30°	2660.9	2365.7	1811.4	1261.6	1190.8	1228.4	1302.2	1370.0	1396.4	1396.4
2892.2	32.5°	2773.9	2441.0	1775.2	1227.7	1168.2	1168.9	1215.6	1277.4	1309.0	1313.5
3035.3	35°	2909.5	2521.6	1696.1	1200.6	1141.8	1110.9	1133.5	1184.7	1222.4	1232.2
3239.4	37.5°	3087.2	2620.3	1583.2	1160.6	1101.1	1049.9	1055.2	1094.4	1135.8	1150.8
3521.1	40°	3326.0	2736.3	1465.7	1103.4	1043.9	982.9	980.6	1009.2	1049.9	1066.5
3902.2	42.5°	3641.6	2875.6	1353.4	1048.4	974.6	912.1	908.3	930.9	966.3	983.6
4405.3	45°	4045.3	3046.6	1257.0	1005.5	906.8	845.1	843.5	862.4	893.3	911.3
5049.2	47.5°	4606.4	3217.5	1191.5	982.9	853.3	790.1	793.1	809.7	837.5	850.3
5883.0	50°	5337.7	3269.5	1158.4	982.9	824.7	741.1	756.2	769.7	790.8	798.4
6882.5	52.5°	6039.7	3097.8	1128.2	988.9	828.5	699.7	732.1	741.9	759.9	763.0
7808.9	55°	6383.9	2663.2	1086.8	990.4	851.8	664.3	712.5	730.6	737.4	736.6
8346.6	57.5°	6265.6	2153.3	1016.8	984.4	867.7	641.7	688.4	723.0	727.6	720.8
8244.2	60°	5850.6	1585.4	963.3	940.0	861.6	634.9	651.5	706.5	713.3	704.2
7454.9	62.5°	5154.7	1100.4	921.9	842.0	835.3	632.7	593.5	670.3	686.9	674.1
5992.2	65°	4058.1	777.3	793.8	738.1	778.0	620.6	533.2	626.6	649.2	629.6
4347.3	67.5°	2746.1	561.1	643.2	668.8	685.4	593.5	489.6	576.9	607.1	581.4
2789.7	70°	1483.0	393.9	424.8	563.4	582.2	546.8	450.4	526.5	561.1	533.2
1983.1	72.5°	875.9	283.2	297.5	452.7	485.0	481.3	406.7	467.7	509.9	476.8
1368.5	75°	482.8	191.3	212.4	328.4	393.9	371.3	349.5	396.2	439.1	406.7
857.9	77.5°	216.2	114.5	147.6	215.4	309.6	254.6	270.4	308.8	348.7	314.8
477.5	80°	83.6	64.0	97.9	117.5	225.2	140.8	174.0	227.5	256.1	229.0
103.9	82.5°	10.5	28.6	42.2	45.9	131.1	74.6	100.9	143.1	140.8	122.0
0.0	85°	0.0	5.3	6.0	3.0	56.5	27.1	33.1	46.7	43.7	33.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°
1513.9	0°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
1355.7	2.5°	1318.8	1291.7	1278.1	1266.8	1277.4	1283.4	1283.4	1309.0	1324.1	1330.1
1228.4	5°	1162.1	1111.7	1077.8	1057.4	1064.2	1071.8	1080.0	1112.4	1134.3	1148.6
1140.3	7.5°	1038.6	961.8	914.3	889.5	893.3	898.5	905.3	936.9	958.8	977.6
1123.7	10°	977.6	869.2	806.6	776.5	771.2	768.2	766.0	784.8	801.4	816.4
1191.5	12.5°	980.6	829.2	753.2	716.3	700.4	682.4	668.1	671.1	681.6	700.4
1312.8	15°	1019.0	816.4	725.3	679.4	653.0	631.9	614.6	610.8	614.6	617.6
1451.4	17.5°	1071.0	814.9	701.2	644.0	616.8	599.5	583.7	578.4	579.2	583.0
1543.2	20°	1112.4	810.4	674.1	610.1	586.0	570.9	555.1	549.8	551.3	552.1
1552.3	22.5°	1134.3	803.6	644.0	576.2	555.8	540.8	526.5	525.7	525.7	530.2
1503.3	25°	1134.3	789.3	616.8	543.8	525.7	512.2	494.8	497.8	499.4	505.4
1427.3	27.5°	1107.2	762.2	595.0	515.9	497.1	483.5	467.7	471.5	473.7	480.5
1351.9	30°	1072.5	729.8	570.1	489.6	467.7	457.9	444.4	445.9	448.9	456.4
1281.9	32.5°	1035.6	691.4	549.8	463.2	441.4	433.8	418.8	421.0	424.0	432.3
1212.6	35°	994.9	646.2	525.7	439.1	417.3	411.2	393.9	395.4	399.9	409.0
1138.0	37.5°	952.0	609.3	501.6	415.7	393.2	387.1	369.1	370.6	375.8	386.4
1059.7	40°	909.8	573.2	476.0	390.9	368.3	363.0	343.4	345.0	351.0	362.3
980.6	42.5°	863.9	545.3	442.9	365.3	341.2	335.9	317.8	320.1	326.9	338.2
907.6	45°	808.9	527.2	406.0	341.2	314.1	308.8	292.2	296.7	304.3	315.6
845.1	47.5°	752.4	519.7	375.1	315.6	286.2	281.7	268.1	275.7	283.9	293.0
791.6	50°	698.2	509.9	343.4	291.5	262.1	257.6	248.5	258.3	266.6	274.9
753.2	52.5°	636.4	488.8	314.8	270.4	241.8	240.3	235.7	244.8	252.3	259.8
720.0	55°	572.4	454.9	290.0	251.6	224.4	226.0	223.7	231.2	237.2	244.0
689.9	57.5°	516.7	412.0	270.4	231.2	209.4	213.9	210.9	214.7	218.4	226.7
653.8	60°	460.2	360.8	248.5	207.1	194.3	199.6	191.3	190.6	192.1	194.3
600.3	62.5°	384.1	307.3	221.4	186.0	177.7	180.0	164.2	152.1	152.1	154.4
525.7	65°	308.8	257.6	191.3	161.9	155.2	153.6	131.1	114.5	113.0	119.8
439.1	67.5°	253.8	213.9	161.2	134.8	130.3	131.8	115.2	98.7	97.2	104.7
357.8	70°	210.1	172.5	128.8	103.9	108.5	115.2	98.7	82.8	80.6	87.4
290.7	72.5°	167.2	134.8	98.7	76.8	89.6	97.9	80.6	65.5	64.0	70.0
224.4	75°	122.8	96.4	67.0	55.7	69.3	76.8	58.7	46.7	44.4	49.7
149.9	77.5°	76.1	54.2	42.2	33.1	47.4	51.2	30.9	27.1	26.4	30.1
91.1	80°	35.4	23.3	20.3	11.3	17.3	20.3	12.8	14.3	15.1	18.1
45.9	82.5°	9.8	3.8	0.8	0.0	0.0	6.0	3.0	6.0	7.5	11.3
3.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.8	6.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°
1513.9	0°	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9	1513.9
1372.3	2.5°	1403.9	1434.0	1482.2	1531.9	1580.9	1630.6	1678.8	1696.1
1214.1	5°	1273.6	1342.9	1438.6	1541.0	1646.4	1753.4	1851.3	1895.7
1050.7	7.5°	1128.2	1227.7	1371.5	1531.9	1699.9	1867.9	2022.3	2093.8
888.7	10°	973.1	1098.9	1263.1	1480.0	1721.0	1953.0	2165.4	2258.0
746.4	12.5°	825.5	957.3	1138.8	1398.6	1704.4	2001.9	2257.2	2366.5
646.2	15°	702.0	818.7	1014.5	1302.2	1650.9	2004.9	2300.9	2420.7
590.5	17.5°	609.3	685.4	888.0	1195.3	1580.9	1977.1	2316.0	2444.0
560.4	20°	563.4	584.5	723.8	1058.2	1515.4	1950.7	2331.1	2465.9
536.3	22.5°	536.3	541.5	592.0	881.2	1437.0	1942.4	2357.4	2496.0
514.4	25°	514.4	515.9	529.5	698.2	1317.3	1937.2	2398.1	2537.4
491.8	27.5°	492.6	492.6	500.1	562.6	1154.6	1914.6	2450.8	2587.1
469.2	30°	470.7	470.7	476.0	497.8	964.1	1870.1	2514.1	2651.9
446.6	32.5°	448.1	448.1	452.7	468.5	769.7	1814.4	2572.1	2717.4
423.3	35°	425.5	424.0	430.1	446.6	612.3	1743.6	2630.1	2788.2
399.9	37.5°	401.4	400.7	406.7	425.5	528.7	1661.5	2673.8	2884.6
376.6	40°	375.8	375.8	382.6	402.9	504.6	1558.3	2743.0	3023.2
352.5	42.5°	352.5	351.0	358.5	383.4	486.5	1459.6	2867.3	3225.1
330.6	45°	329.9	326.9	333.7	364.5	454.9	1425.0	3099.3	3523.3
309.6	47.5°	308.8	301.3	307.3	341.9	426.3	1554.5	3478.9	3936.8
290.7	50°	291.5	277.2	282.4	319.3	404.5	1835.5	3971.5	4485.9
273.4	52.5°	273.4	254.6	257.6	291.5	384.9	2102.8	4505.5	5210.4
256.1	55°	254.6	233.5	235.0	263.6	357.0	2142.8	5026.7	6198.6
236.5	57.5°	233.5	213.9	213.9	238.0	336.7	1857.3	5427.3	7424.7
212.4	60°	210.1	197.3	193.6	217.7	354.7	1310.5	5474.0	8215.6
181.5	62.5°	184.5	177.7	172.5	198.1	368.3	776.5	5098.2	8024.3
143.1	65°	155.2	153.6	149.9	217.7	310.3	458.7	4376.7	7437.5
122.0	67.5°	130.3	128.0	128.0	228.2	235.7	288.5	3419.4	6630.2
103.9	70°	112.2	103.9	103.9	172.5	143.1	199.6	2387.5	5758.7
85.9	72.5°	94.1	85.1	79.1	137.8	107.0	146.1	1492.0	4931.8
65.5	75°	75.3	68.5	61.0	91.1	79.8	110.7	866.9	4085.9
41.4	77.5°	54.2	51.2	42.9	67.0	58.0	79.8	515.9	3152.8
25.6	80°	27.9	28.6	27.1	38.4	39.2	54.2	293.7	2157.8
16.6	82.5°	16.6	12.8	14.3	18.8	22.6	30.9	110.7	1268.3
12.1	85°	10.5	6.8	6.8	9.0	11.3	12.1	33.9	514.4
6.0	87.5°	5.3	2.3	3.0	4.5	3.8	3.0	1.5	129.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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