

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: P948220

Luminaire Tested: **GALN-SB3B-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948220
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-SB3B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA 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: 11586 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

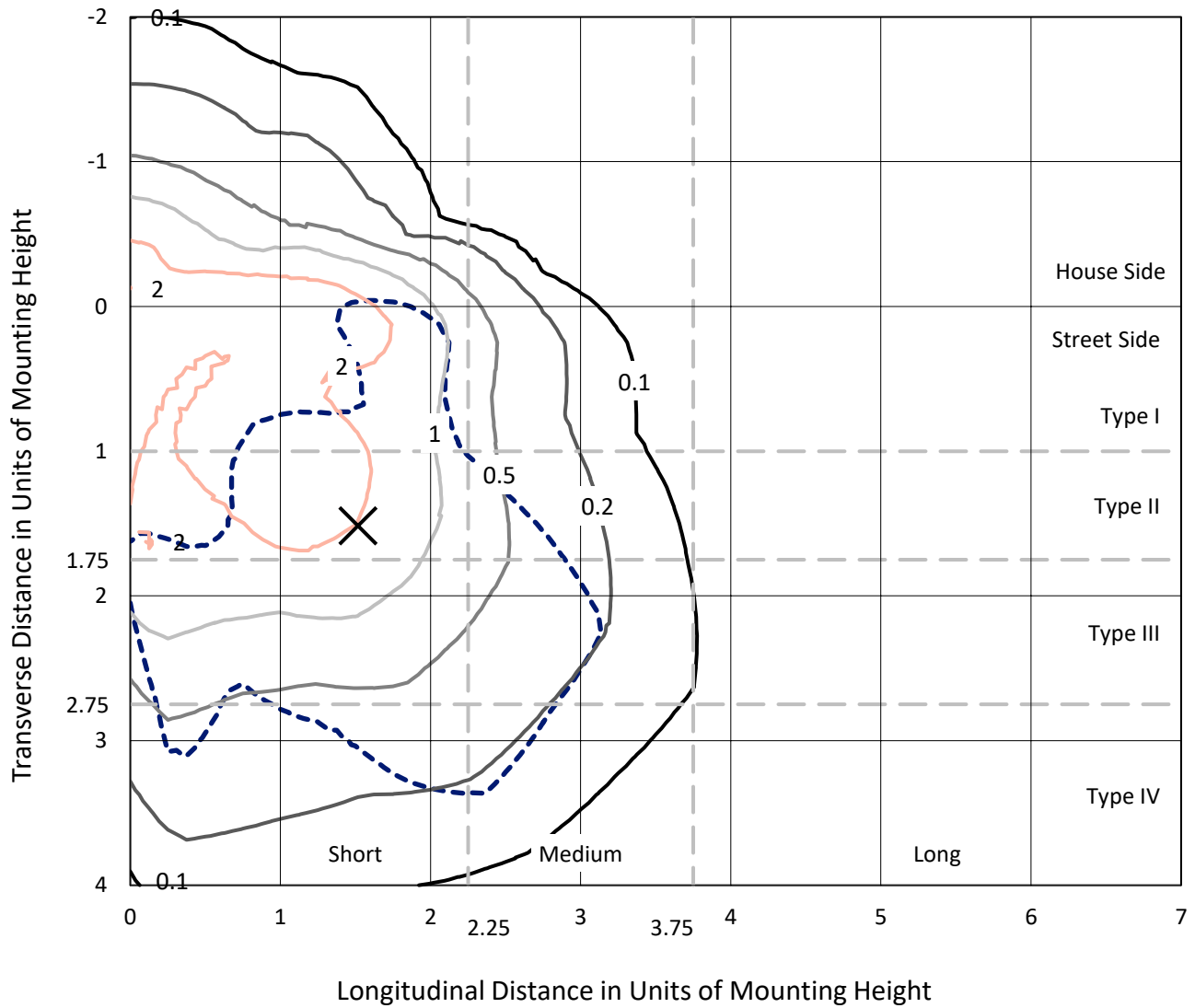
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

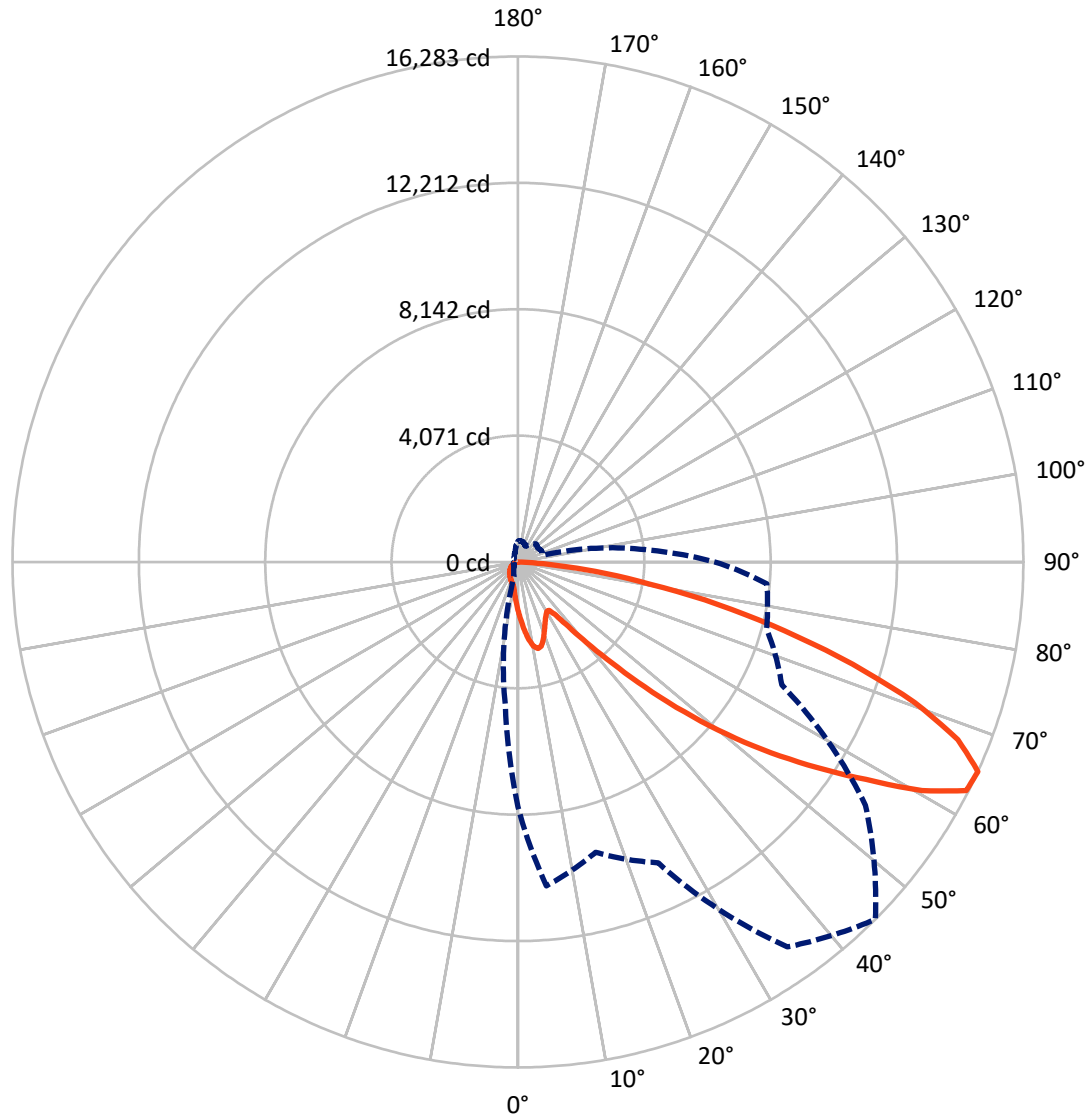
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2302.9	0.0	2302.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9283.1	0.0	9283.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	11586.0	0.0	11586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.4
10°-20°	473.5	4.1
20°-30°	697.5	6.0
30°-40°	896.1	7.7
40°-50°	1449.3	12.5
50°-60°	2541.5	21.9
60°-70°	3180.1	27.4
70°-80°	1858.3	16.0
80°-90°	331.6	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°	11586.0	100.0
0°-180°	11586.0	100.0

Coefficient of Utilization



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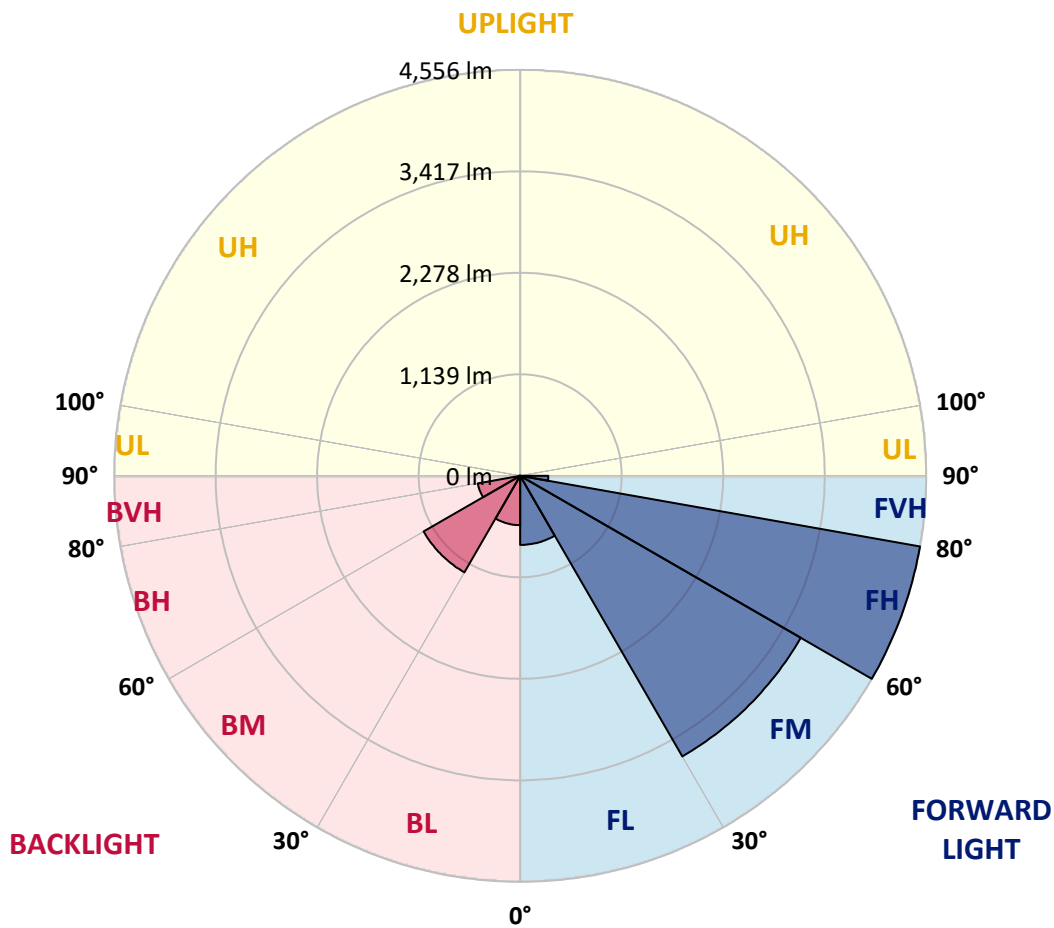
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.2	6.7			
FM (30°-60°)	3635.8	31.4			
FH (60°-80°)	4556.0	39.3			G2/5000
FVH (80°-90°)	316.0	2.7			G3/500
BL (0°-30°)	553.7	4.8	B2/1000		
BM (30°-60°)	1251.2	10.8	B2/2500		
BH (60°-80°)	482.5	4.2	B1/500		G1/500
BVH (80°-90°)	15.5	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°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
2.5°	1797.4	1811.0	1841.3	1857.3	1882.0	1883.6	1883.6	1862.1	1861.3	1817.4
5°	2009.0	2040.9	2112.7	2186.9	2202.9	2206.9	2198.9	2155.8	2123.9	2038.5
7.5°	2218.9	2280.3	2389.7	2488.6	2520.6	2520.6	2501.4	2431.2	2365.7	2242.0
10°	2392.9	2470.3	2618.7	2729.7	2766.4	2758.4	2719.3	2630.7	2540.5	2390.5
12.5°	2507.8	2594.8	2757.6	2847.0	2884.5	2863.8	2819.1	2732.9	2637.9	2479.9
15°	2565.3	2656.3	2797.5	2844.6	2834.2	2812.7	2807.1	2765.6	2693.8	2546.1
17.5°	2590.0	2674.6	2772.8	2743.3	2655.5	2638.7	2694.6	2747.2	2729.7	2603.6
20°	2613.2	2684.2	2713.7	2582.8	2429.6	2414.4	2521.4	2671.4	2748.0	2657.1
22.5°	2645.1	2689.0	2628.3	2413.6	2248.4	2213.3	2331.4	2557.3	2753.6	2724.9
25°	2689.0	2701.0	2534.1	2253.2	2087.2	2052.1	2162.2	2430.4	2744.1	2798.3
27.5°	2741.7	2716.9	2443.9	2119.1	1958.7	1925.9	2036.1	2308.3	2716.9	2871.8
30°	2810.3	2737.7	2354.6	2015.3	1866.9	1842.9	1949.1	2202.9	2683.4	2965.1
32.5°	2879.7	2746.4	2271.5	1954.7	1846.1	1854.9	1941.9	2146.2	2646.7	3054.5
35°	2954.8	2774.4	2230.8	2014.5	2019.3	2096.0	2131.9	2198.9	2641.1	3175.9
37.5°	3056.9	2836.6	2279.5	2312.3	2478.3	2637.1	2607.6	2456.7	2705.7	3357.0
40°	3203.8	2946.0	2491.8	2819.1	3159.9	3417.7	3305.2	2925.2	2903.7	3618.0
42.5°	3417.7	3120.0	2868.6	3438.4	4016.3	4440.9	4139.2	3529.4	3250.1	3990.8
45°	3733.8	3401.7	3324.3	4092.1	5072.3	5741.1	5113.8	4173.5	3735.4	4555.1
47.5°	4172.0	3816.0	3751.3	4780.9	6355.7	7220.9	6194.5	4770.6	4287.7	5324.5
50°	4753.8	4373.9	4156.0	5534.4	7762.8	8729.4	7274.4	5346.8	4920.6	6264.7
52.5°	5521.6	5152.1	4627.7	6251.9	9209.9	10206.0	8359.1	5852.9	5706.0	7355.8
55°	6568.8	6323.0	5272.6	6936.8	10656.2	11691.4	9401.5	6330.2	6743.6	8652.0
57.5°	7868.2	8043.8	6202.5	7730.9	11956.4	13222.2	10448.6	6997.4	8090.9	10101.4
60°	8706.3	10332.1	7983.1	8905.0	13433.7	14953.4	11883.7	8266.5	9506.8	10621.0
62.5°	8503.5	11060.0	10115.8	10403.9	14792.2	16212.1	13290.1	9541.1	9773.4	9855.6
65°	7881.8	10472.6	9680.8	10695.3	15136.2	16283.1	13666.0	9376.7	8290.4	8046.2
67.5°	7026.2	9775.8	8647.2	9922.7	14514.4	15290.2	12966.0	8294.4	6406.8	6038.0
70°	6102.7	9004.8	7968.8	9055.9	13329.2	13559.8	11776.0	7295.1	4712.3	4077.8
72.5°	5226.3	8201.8	7504.2	8167.5	11748.0	11270.7	10226.8	6411.6	3431.3	2941.2
75°	4330.0	7017.4	6842.6	7112.4	9668.8	8877.9	8497.2	5308.5	2693.0	2127.9
77.5°	3341.1	5483.3	5885.6	5695.6	6805.9	6594.4	6586.4	3989.2	1967.5	1419.9
80°	2286.7	3821.6	4598.2	4017.9	4417.0	4309.2	4960.5	2676.2	1427.1	854.8
82.5°	1344.1	2326.6	3200.6	1945.1	2442.4	2507.0	2954.0	1301.8	839.7	197.1
85°	545.1	918.7	1251.5	761.4	1178.1	993.7	1121.4	365.6	233.9	4.8
87.5°	137.3	293.7	205.9	85.4	136.5	125.3	99.0	44.7	9.6	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°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1812.6	2.5°	1781.5	1763.1	1717.6	1672.1	1635.4	1585.9	1553.2	1514.1	1476.6	1443.1
2020.1	5°	1969.8	1909.2	1826.2	1750.4	1672.9	1597.9	1523.7	1445.5	1373.6	1329.7
2195.7	7.5°	2123.1	2016.1	1906.0	1809.4	1716.0	1628.2	1530.1	1435.1	1322.5	1262.7
2329.8	10°	2237.2	2096.8	1952.3	1841.3	1747.2	1661.8	1578.7	1483.0	1347.3	1272.3
2411.2	12.5°	2312.3	2145.4	1976.2	1849.3	1744.0	1677.7	1641.0	1603.5	1468.6	1380.8
2471.1	15°	2364.1	2179.8	1993.0	1831.0	1701.7	1653.0	1689.7	1732.8	1646.6	1545.2
2533.3	17.5°	2420.8	2224.5	2000.2	1781.5	1619.5	1598.7	1693.7	1793.5	1789.5	1688.9
2592.4	20°	2480.7	2263.6	1995.4	1701.7	1519.7	1538.0	1659.4	1775.1	1823.8	1769.5
2660.2	22.5°	2542.1	2301.1	1977.0	1597.9	1426.3	1483.8	1605.1	1706.5	1763.9	1747.2
2743.3	25°	2619.5	2353.8	1949.9	1486.2	1348.9	1428.7	1542.0	1624.2	1664.2	1663.4
2832.6	27.5°	2712.1	2424.0	1935.5	1396.0	1293.8	1366.4	1467.0	1540.4	1568.4	1568.4
2943.6	30°	2819.9	2507.0	1919.6	1336.9	1261.9	1301.8	1380.0	1451.8	1479.8	1479.8
3064.9	32.5°	2939.6	2586.8	1881.2	1301.0	1237.9	1238.7	1288.2	1353.7	1387.2	1392.0
3216.6	35°	3083.3	2672.2	1797.4	1272.3	1210.0	1177.3	1201.2	1255.5	1295.4	1305.8
3432.9	37.5°	3271.6	2776.8	1677.7	1230.0	1166.9	1112.6	1118.2	1159.7	1203.6	1219.6
3731.4	40°	3524.6	2899.7	1553.2	1169.3	1106.2	1041.6	1039.2	1069.5	1112.6	1130.2
4135.2	42.5°	3859.1	3047.4	1434.3	1111.0	1032.8	966.6	962.6	986.5	1024.0	1042.4
4668.4	45°	4286.9	3228.5	1332.1	1065.5	961.0	895.5	893.9	913.9	946.6	965.8
5350.8	47.5°	4881.5	3409.7	1262.7	1041.6	904.3	837.3	840.5	858.0	887.5	901.1
6234.4	50°	5656.5	3464.8	1227.6	1041.6	874.0	785.4	801.3	815.7	838.1	846.0
7293.5	52.5°	6400.4	3282.8	1195.6	1048.0	878.0	741.5	775.8	786.2	805.3	808.5
8275.3	55°	6765.2	2822.3	1151.7	1049.6	902.7	704.0	755.1	774.2	781.4	780.6
8845.1	57.5°	6639.8	2281.9	1077.5	1043.2	919.5	680.0	729.5	766.2	771.0	763.8
8736.6	60°	6200.1	1680.1	1020.8	996.1	913.1	672.8	690.4	748.7	755.9	746.3
7900.1	62.5°	5462.6	1166.1	976.9	892.3	885.2	670.4	628.9	710.4	727.9	714.3
6350.1	65°	4300.5	823.7	841.3	782.2	824.5	657.7	565.1	664.1	688.0	667.3
4606.9	67.5°	2910.1	594.6	681.6	708.8	726.3	628.9	518.8	611.4	643.3	616.2
2956.4	70°	1571.6	417.4	450.2	597.0	617.0	579.5	477.3	557.9	594.6	565.1
2101.5	72.5°	928.3	300.1	315.3	479.7	514.0	510.0	431.0	495.7	540.4	505.2
1450.2	75°	511.6	202.7	225.1	348.0	417.4	393.5	370.3	419.8	465.3	431.0
909.1	77.5°	229.1	121.3	156.4	228.3	328.0	269.8	286.5	327.2	369.5	333.6
506.0	80°	88.6	67.8	103.8	124.5	238.6	149.3	184.4	241.0	271.4	242.6
110.1	82.5°	11.2	30.3	44.7	48.7	138.9	79.0	107.0	151.6	149.3	129.3
0.0	85°	0.0	5.6	6.4	3.2	59.9	28.7	35.1	49.5	46.3	35.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1436.7	2.5°	1397.6	1368.8	1354.5	1342.5	1353.7	1360.1	1360.1	1387.2	1403.2	1409.5
1301.8	5°	1231.6	1178.1	1142.2	1120.6	1127.8	1135.8	1144.6	1178.9	1202.0	1217.2
1208.4	7.5°	1100.7	1019.2	969.0	942.6	946.6	952.2	959.4	992.9	1016.1	1036.0
1190.8	10°	1036.0	921.1	854.8	822.9	817.3	814.1	811.7	831.7	849.2	865.2
1262.7	12.5°	1039.2	878.8	798.2	759.0	742.3	723.1	708.0	711.2	722.3	742.3
1391.2	15°	1079.9	865.2	768.6	719.9	692.0	669.7	651.3	647.3	651.3	654.5
1538.0	17.5°	1135.0	863.6	743.1	682.4	653.7	635.3	618.6	613.0	613.8	617.8
1635.4	20°	1178.9	858.8	714.3	646.5	621.0	605.0	588.2	582.7	584.2	585.0
1645.0	22.5°	1202.0	851.6	682.4	610.6	589.0	573.1	557.9	557.1	557.1	561.9
1593.1	25°	1202.0	836.5	653.7	576.3	557.1	542.7	524.4	527.6	529.2	535.6
1512.5	27.5°	1173.3	807.7	630.5	546.7	526.8	512.4	495.7	499.6	502.0	509.2
1432.7	30°	1136.6	773.4	604.2	518.8	495.7	485.3	470.9	472.5	475.7	483.7
1358.5	32.5°	1097.5	732.7	582.7	490.9	467.7	459.7	443.8	446.2	449.4	458.1
1285.0	35°	1054.4	684.8	557.1	465.3	442.2	435.8	417.4	419.0	423.8	433.4
1206.0	37.5°	1008.9	645.7	531.6	440.6	416.6	410.3	391.1	392.7	398.3	409.5
1123.0	40°	964.2	607.4	504.4	414.2	390.3	384.7	364.0	365.6	371.9	383.9
1039.2	42.5°	915.5	577.9	469.3	387.1	361.6	356.0	336.8	339.2	346.4	358.4
961.8	45°	857.2	558.7	430.2	361.6	332.8	327.2	309.7	314.5	322.5	334.4
895.5	47.5°	797.4	550.7	397.5	334.4	303.3	298.5	284.1	292.1	300.9	310.5
838.9	50°	739.9	540.4	364.0	308.9	277.8	273.0	263.4	273.8	282.5	291.3
798.2	52.5°	674.4	518.0	333.6	286.5	256.2	254.6	249.8	259.4	267.4	275.4
763.0	55°	606.6	482.1	307.3	266.6	237.9	239.4	237.1	245.0	251.4	258.6
731.1	57.5°	547.5	436.6	286.5	245.0	221.9	226.7	223.5	227.5	231.5	240.2
692.8	60°	487.7	382.3	263.4	219.5	205.9	211.5	202.7	201.9	203.5	205.9
636.1	62.5°	407.1	325.6	234.7	197.1	188.4	190.8	174.0	161.2	161.2	163.6
557.1	65°	327.2	273.0	202.7	171.6	164.4	162.8	138.9	121.3	119.7	126.9
465.3	67.5°	269.0	226.7	170.8	142.9	138.1	139.7	122.1	104.6	103.0	110.9
379.1	70°	222.7	182.8	136.5	110.1	114.9	122.1	104.6	87.8	85.4	92.6
308.1	72.5°	177.2	142.9	104.6	81.4	95.0	103.8	85.4	69.4	67.8	74.2
237.9	75°	130.1	102.2	71.0	59.1	73.4	81.4	62.3	49.5	47.1	52.7
158.8	77.5°	80.6	57.5	44.7	35.1	50.3	54.3	32.7	28.7	27.9	31.9
96.6	80°	37.5	24.7	21.6	12.0	18.4	21.6	13.6	15.2	16.0	19.2
48.7	82.5°	10.4	4.0	0.8	0.0	0.0	6.4	3.2	6.4	8.0	12.0
4.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	7.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1604.3	0°	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3	1604.3
1454.2	2.5°	1487.8	1519.7	1570.8	1623.4	1675.3	1728.0	1779.1	1797.4
1286.6	5°	1349.7	1423.1	1524.5	1633.0	1744.8	1858.1	1961.9	2009.0
1113.4	7.5°	1195.6	1301.0	1453.4	1623.4	1801.4	1979.4	2143.0	2218.9
941.8	10°	1031.2	1164.5	1338.5	1568.4	1823.8	2069.6	2294.7	2392.9
791.0	12.5°	874.8	1014.5	1206.8	1482.2	1806.2	2121.5	2392.1	2507.8
684.8	15°	743.9	867.6	1075.1	1380.0	1749.6	2124.7	2438.4	2565.3
625.8	17.5°	645.7	726.3	941.0	1266.7	1675.3	2095.2	2454.3	2590.0
593.8	20°	597.0	619.4	767.0	1121.4	1605.9	2067.2	2470.3	2613.2
568.3	22.5°	568.3	573.9	627.3	933.8	1522.9	2058.4	2498.2	2645.1
545.1	25°	545.1	546.7	561.1	739.9	1396.0	2052.9	2541.3	2689.0
521.2	27.5°	522.0	522.0	530.0	596.2	1223.6	2028.9	2597.2	2741.7
497.3	30°	498.8	498.8	504.4	527.6	1021.6	1981.8	2664.2	2810.3
473.3	32.5°	474.9	474.9	479.7	496.5	815.7	1922.8	2725.7	2879.7
448.6	35°	451.0	449.4	455.7	473.3	648.9	1847.7	2787.2	2954.8
423.8	37.5°	425.4	424.6	431.0	451.0	560.3	1760.7	2833.4	3056.9
399.1	40°	398.3	398.3	405.5	427.0	534.8	1651.4	2906.9	3203.8
373.5	42.5°	373.5	371.9	379.9	406.3	515.6	1546.8	3038.6	3417.7
350.4	45°	349.6	346.4	353.6	386.3	482.1	1510.1	3284.4	3733.8
328.0	47.5°	327.2	319.3	325.6	362.4	451.8	1647.4	3686.7	4172.0
308.1	50°	308.9	293.7	299.3	338.4	428.6	1945.1	4208.7	4753.8
289.7	52.5°	289.7	269.8	273.0	308.9	407.9	2228.4	4774.6	5521.6
271.4	55°	269.8	247.4	249.0	279.4	378.3	2270.7	5326.9	6568.8
250.6	57.5°	247.4	226.7	226.7	252.2	356.8	1968.2	5751.5	7868.2
225.1	60°	222.7	209.1	205.1	230.7	375.9	1388.8	5801.0	8706.3
192.4	62.5°	195.5	188.4	182.8	209.9	390.3	822.9	5402.7	8503.5
151.6	65°	164.4	162.8	158.8	230.7	328.8	486.1	4638.1	7881.8
129.3	67.5°	138.1	135.7	135.7	241.8	249.8	305.7	3623.6	7026.2
110.1	70°	118.9	110.1	110.1	182.8	151.6	211.5	2530.1	6102.7
91.0	72.5°	99.8	90.2	83.8	146.1	113.3	154.8	1581.1	5226.3
69.4	75°	79.8	72.6	64.7	96.6	84.6	117.3	918.7	4330.0
43.9	77.5°	57.5	54.3	45.5	71.0	61.5	84.6	546.7	3341.1
27.1	80°	29.5	30.3	28.7	40.7	41.5	57.5	311.3	2286.7
17.6	82.5°	17.6	13.6	15.2	20.0	23.9	32.7	117.3	1344.1
12.8	85°	11.2	7.2	7.2	9.6	12.0	12.8	35.9	545.1
6.4	87.5°	5.6	2.4	3.2	4.8	4.0	3.2	1.6	137.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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