

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: P949291

Luminaire Tested: **GALN-SB4A-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949291
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-SB4A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 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: 12329 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

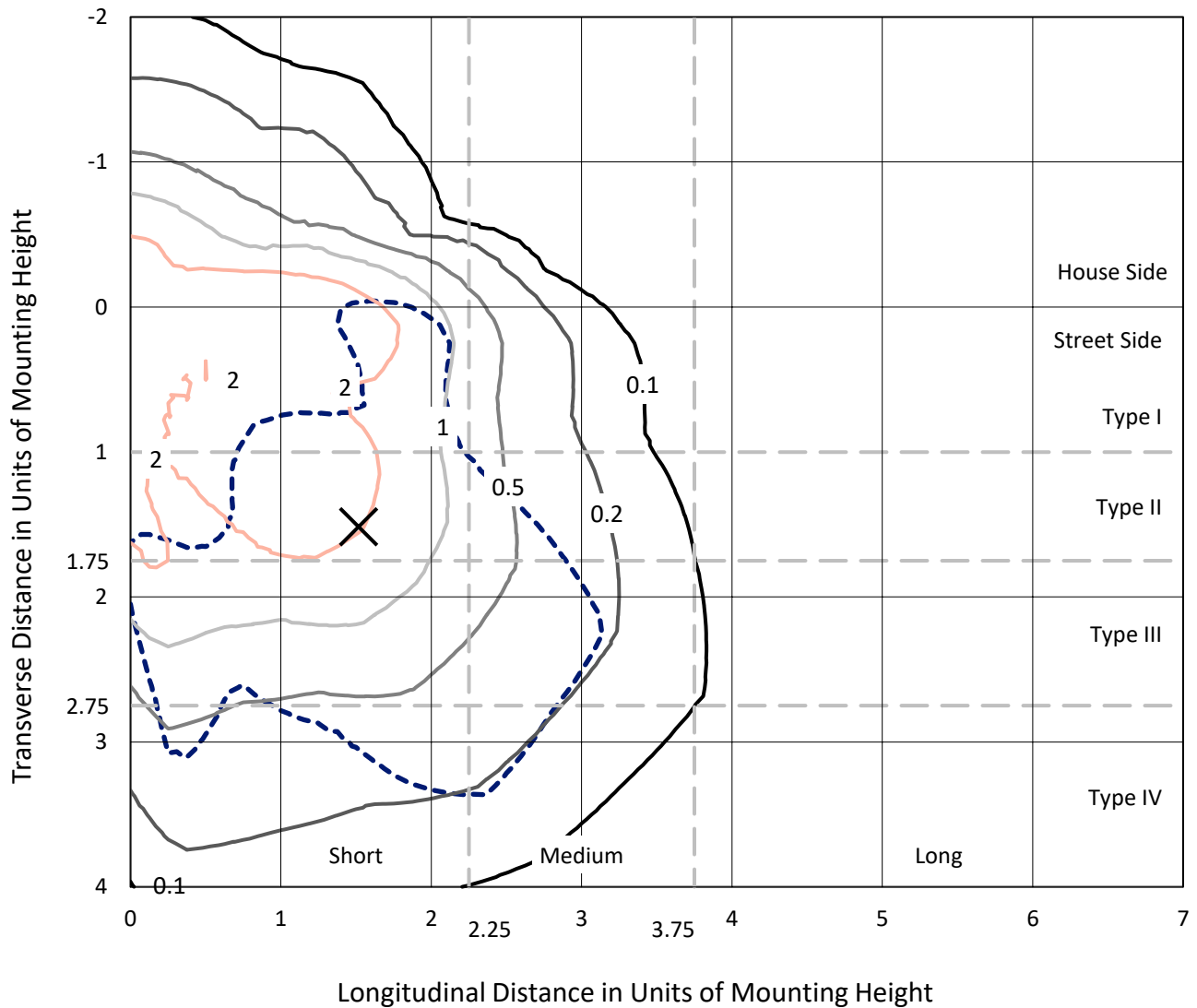
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

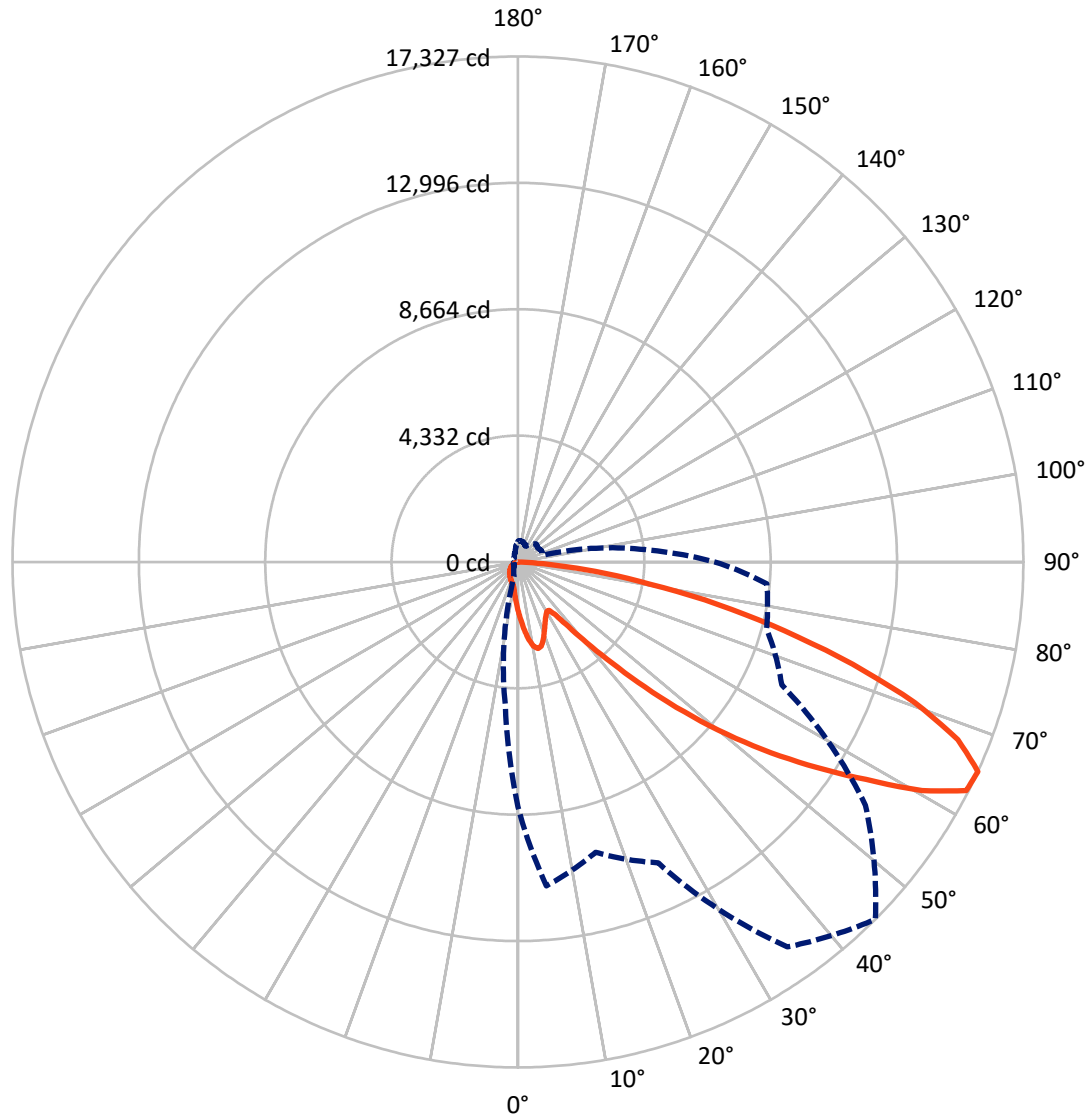
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2450.6	0.0	2450.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9878.4	0.0	9878.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	12329.0	0.0	12329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.4
10°-20°	503.8	4.1
20°-30°	742.3	6.0
30°-40°	953.6	7.7
40°-50°	1542.3	12.5
50°-60°	2704.5	21.9
60°-70°	3384.1	27.4
70°-80°	1977.5	16.0
80°-90°	352.8	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°	12329.0	100.0
0°-180°	12329.0	100.0

Coefficient of Utilization



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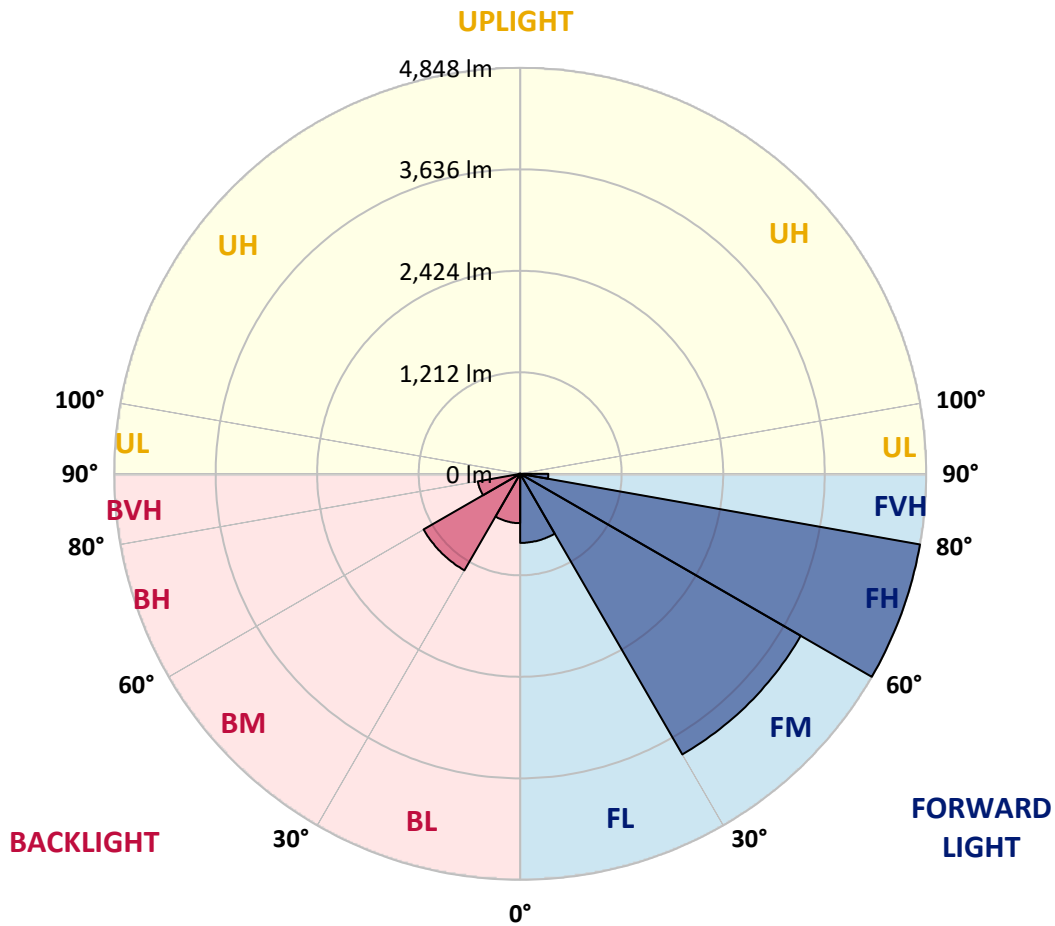
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.0	6.7			
FM (30°-60°)	3869.0	31.4			
FH (60°-80°)	4848.1	39.3			G2/5000
FVH (80°-90°)	336.3	2.7			G3/500
BL (0°-30°)	589.2	4.8	B2/1000		
BM (30°-60°)	1331.4	10.8	B2/2500		
BH (60°-80°)	513.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	16.5	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°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
2.5°	1912.7	1927.2	1959.4	1976.4	2002.7	2004.4	2004.4	1981.5	1980.7	1933.9
5°	2137.8	2171.8	2248.2	2327.2	2344.2	2348.4	2339.9	2294.1	2260.1	2169.2
7.5°	2361.2	2426.6	2542.9	2648.2	2682.2	2682.2	2661.8	2587.1	2517.4	2385.8
10°	2546.3	2628.7	2786.7	2904.7	2943.8	2935.3	2893.7	2799.4	2703.4	2543.8
12.5°	2668.6	2761.2	2934.5	3029.6	3069.5	3047.4	2999.9	2908.1	2807.1	2638.9
15°	2729.8	2826.6	2976.9	3027.0	3016.0	2993.1	2987.1	2943.0	2866.5	2709.4
17.5°	2756.1	2846.1	2950.6	2919.2	2825.8	2807.9	2867.4	2923.4	2904.7	2770.5
20°	2780.7	2856.3	2887.8	2748.5	2585.4	2569.3	2683.1	2842.7	2924.3	2827.5
22.5°	2814.7	2861.4	2796.9	2568.4	2392.6	2355.2	2480.9	2721.3	2930.2	2899.6
25°	2861.4	2874.2	2696.7	2397.7	2221.0	2183.7	2300.9	2586.2	2920.0	2977.8
27.5°	2917.5	2891.2	2600.7	2255.0	2084.3	2049.5	2166.7	2456.3	2891.2	3055.9
30°	2990.5	2913.2	2505.6	2144.6	1986.6	1961.1	2074.1	2344.2	2855.5	3155.3
32.5°	3064.4	2922.6	2417.2	2080.0	1964.5	1973.9	2066.4	2283.9	2816.4	3250.4
35°	3144.3	2952.3	2373.9	2143.7	2148.8	2230.4	2268.6	2339.9	2810.5	3379.5
37.5°	3253.0	3018.6	2425.7	2460.5	2637.2	2806.2	2774.8	2614.3	2879.3	3572.3
40°	3409.2	3134.9	2651.6	2999.9	3362.5	3636.9	3517.1	3112.8	3089.9	3850.1
42.5°	3636.9	3320.1	3052.5	3659.0	4273.9	4725.7	4404.7	3755.8	3458.5	4246.7
45°	3973.2	3619.9	3537.5	4354.6	5397.6	6109.3	5441.7	4441.2	3974.9	4847.2
47.5°	4439.5	4060.7	3991.9	5087.5	6763.3	7684.0	6591.7	5076.5	4562.7	5665.9
50°	5058.7	4654.4	4422.5	5889.3	8260.7	9289.2	7740.9	5689.7	5236.2	6666.5
52.5°	5875.7	5482.5	4924.5	6652.9	9800.5	10860.5	8895.1	6228.2	6071.9	7827.5
55°	6990.1	6728.5	5610.7	7381.6	11339.5	12441.1	10004.4	6736.1	7176.1	9206.8
57.5°	8372.8	8559.6	6600.2	8226.7	12723.1	14070.2	11118.7	7446.2	8609.8	10749.2
60°	9264.6	10994.7	8495.1	9476.1	14295.2	15912.4	12645.8	8796.6	10116.5	11302.2
62.5°	9048.9	11769.3	10764.5	11071.1	15740.8	17251.8	14142.3	10153.0	10400.2	10487.6
65°	8387.2	11144.2	10301.6	11381.1	16106.9	17327.4	14542.4	9978.0	8822.1	8562.2
67.5°	7476.7	10402.7	9201.7	10559.0	15445.2	16270.8	13797.5	8826.3	6817.6	6425.3
70°	6494.0	9582.2	8479.8	9636.6	14184.0	14429.4	12531.2	7763.0	5014.5	4339.3
72.5°	5561.5	8727.8	7985.5	8691.3	12501.4	11993.5	10882.6	6822.7	3651.3	3129.8
75°	4607.7	7467.4	7281.4	7568.5	10288.9	9447.2	9042.1	5649.0	2865.7	2264.3
77.5°	3555.3	5835.0	6263.0	6060.9	7242.3	7017.2	7008.7	4245.0	2093.6	1511.0
80°	2433.4	4066.6	4893.0	4275.6	4700.2	4585.6	5278.6	2847.8	1518.6	909.6
82.5°	1430.3	2475.8	3405.9	2069.8	2599.0	2667.8	3143.4	1385.3	893.5	209.8
85°	580.1	977.6	1331.8	810.3	1253.6	1057.4	1193.3	389.0	248.9	5.1
87.5°	146.1	312.6	219.1	90.9	145.2	133.3	105.3	47.6	10.2	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1707.2	0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
1928.8	2.5°	1895.7	1876.2	1827.8	1779.4	1740.3	1687.6	1652.8	1611.2	1571.3	1535.6
2149.7	5°	2096.2	2031.6	1943.3	1862.6	1780.2	1700.4	1621.4	1538.2	1461.7	1415.0
2336.5	7.5°	2259.2	2145.4	2028.2	1925.5	1826.1	1732.7	1628.2	1527.1	1407.4	1343.7
2479.2	10°	2380.7	2231.2	2077.5	1959.4	1859.2	1768.3	1680.0	1578.1	1433.7	1353.8
2565.9	12.5°	2460.5	2283.0	2103.0	1967.9	1855.8	1785.3	1746.2	1706.3	1562.8	1469.4
2629.6	15°	2515.7	2319.5	2120.8	1948.4	1810.8	1759.0	1798.1	1843.9	1752.2	1644.3
2695.8	17.5°	2576.0	2367.1	2128.4	1895.7	1723.3	1701.2	1802.3	1908.5	1904.2	1797.2
2758.7	20°	2639.7	2408.7	2123.3	1810.8	1617.1	1636.7	1765.8	1888.9	1940.7	1883.0
2830.8	22.5°	2705.1	2448.6	2103.8	1700.4	1517.8	1578.9	1708.0	1815.9	1877.0	1859.2
2919.2	25°	2787.5	2504.7	2074.9	1581.5	1435.4	1520.3	1640.9	1728.4	1770.9	1770.0
3014.3	27.5°	2886.1	2579.4	2059.6	1485.5	1376.8	1454.1	1561.1	1639.2	1669.0	1669.0
3132.4	30°	3000.7	2667.8	2042.7	1422.6	1342.8	1385.3	1468.5	1544.9	1574.7	1574.7
3261.5	32.5°	3128.1	2752.7	2001.9	1384.4	1317.3	1318.2	1370.8	1440.5	1476.2	1481.2
3422.8	35°	3281.0	2843.6	1912.7	1353.8	1287.6	1252.8	1278.3	1336.0	1378.5	1389.5
3653.0	37.5°	3481.4	2954.9	1785.3	1308.8	1241.7	1184.0	1189.9	1234.1	1280.8	1297.8
3970.7	40°	3750.7	3085.6	1652.8	1244.3	1177.2	1108.4	1105.8	1138.1	1184.0	1202.7
4400.4	42.5°	4106.6	3242.8	1526.3	1182.3	1099.0	1028.5	1024.3	1049.8	1089.7	1109.2
4967.8	45°	4561.8	3435.6	1417.5	1133.9	1022.6	953.0	951.3	972.5	1007.3	1027.7
5694.0	47.5°	5194.6	3628.4	1343.7	1108.4	962.3	891.0	894.4	913.0	944.5	958.9
6634.2	50°	6019.3	3687.0	1306.3	1108.4	930.0	835.7	852.7	868.0	891.8	900.3
7761.3	52.5°	6810.9	3493.3	1272.3	1115.2	934.3	789.0	825.6	836.6	857.0	860.4
8805.9	55°	7199.0	3003.3	1225.6	1116.9	960.6	749.1	803.5	823.9	831.5	830.7
9412.4	57.5°	7065.7	2428.3	1146.6	1110.1	978.4	723.6	776.3	815.4	820.5	812.8
9296.9	60°	6597.7	1787.9	1086.3	1060.0	971.6	716.0	734.7	796.7	804.3	794.1
8406.8	62.5°	5812.9	1240.9	1039.6	949.6	941.9	713.4	669.3	755.9	774.6	760.2
6757.3	65°	4576.2	876.5	895.2	832.4	877.4	699.9	601.3	706.7	732.1	710.0
4902.4	67.5°	3096.7	632.8	725.3	754.2	772.9	669.3	552.1	650.6	684.6	655.7
3146.0	70°	1672.3	444.2	479.0	635.3	656.5	616.6	507.9	593.7	632.8	601.3
2236.3	72.5°	987.8	319.4	335.5	510.5	547.0	542.7	458.6	527.4	575.0	537.6
1543.2	75°	544.4	215.7	239.5	370.3	444.2	418.7	394.1	446.8	495.2	458.6
967.4	77.5°	243.8	129.1	166.5	242.9	349.1	287.1	304.9	348.2	393.2	355.0
538.5	80°	94.3	72.2	110.4	132.5	254.0	158.8	196.2	256.5	288.8	258.2
117.2	82.5°	11.9	32.3	47.6	51.8	147.8	84.1	113.8	161.4	158.8	137.6
0.0	85°	0.0	5.9	6.8	3.4	63.7	30.6	37.4	52.7	49.3	37.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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°
1707.2	0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
1528.8	2.5°	1487.2	1456.6	1441.3	1428.6	1440.5	1447.3	1447.3	1476.2	1493.1	1499.9
1385.3	5°	1310.5	1253.6	1215.4	1192.5	1200.1	1208.6	1218.0	1254.5	1279.1	1295.2
1285.9	7.5°	1171.2	1084.6	1031.1	1003.1	1007.3	1013.3	1020.9	1056.6	1081.2	1102.4
1267.2	10°	1102.4	980.1	909.6	875.7	869.7	866.3	863.8	885.0	903.7	920.7
1343.7	12.5°	1105.8	935.1	849.3	807.7	789.9	769.5	753.4	756.8	768.7	789.9
1480.4	15°	1149.2	920.7	817.9	766.1	736.4	712.6	693.1	688.8	693.1	696.5
1636.7	17.5°	1207.8	919.0	790.7	726.2	695.6	676.1	658.2	652.3	653.1	657.4
1740.3	20°	1254.5	913.9	760.2	688.0	660.8	643.8	626.0	620.0	621.7	622.6
1750.5	22.5°	1279.1	906.2	726.2	649.7	626.8	609.8	593.7	592.8	592.8	597.9
1695.3	25°	1279.1	890.1	695.6	613.2	592.8	577.6	558.0	561.4	563.1	569.9
1609.5	27.5°	1248.5	859.5	671.0	581.8	560.6	545.3	527.4	531.7	534.2	541.9
1524.6	30°	1209.5	823.0	642.9	552.1	527.4	516.4	501.1	502.8	506.2	514.7
1445.6	32.5°	1167.8	779.7	620.0	522.3	497.7	489.2	472.2	474.8	478.2	487.5
1367.4	35°	1122.0	728.7	592.8	495.2	470.5	463.7	444.2	445.9	451.0	461.2
1283.4	37.5°	1073.6	687.1	565.7	468.8	443.4	436.6	416.2	417.9	423.8	435.7
1195.0	40°	1026.0	646.3	536.8	440.8	415.3	409.4	387.3	389.0	395.8	408.5
1105.8	42.5°	974.2	614.9	499.4	411.9	384.8	378.8	358.4	361.0	368.6	381.4
1023.5	45°	912.2	594.5	457.8	384.8	354.2	348.2	329.5	334.6	343.1	355.9
953.0	47.5°	848.5	586.0	423.0	355.9	322.7	317.7	302.4	310.9	320.2	330.4
892.7	50°	787.3	575.0	387.3	328.7	295.6	290.5	280.3	291.3	300.7	310.0
849.3	52.5°	717.7	551.2	355.0	304.9	272.6	270.9	265.8	276.0	284.5	293.0
812.0	55°	645.5	513.0	327.0	283.7	253.1	254.8	252.3	260.7	267.5	275.2
778.0	57.5°	582.6	464.6	304.9	260.7	236.1	241.2	237.8	242.1	246.3	255.7
737.2	60°	518.9	406.8	280.3	233.6	219.1	225.1	215.7	214.9	216.6	219.1
676.9	62.5°	433.2	346.5	249.7	209.8	200.4	203.0	185.2	171.6	171.6	174.1
592.8	65°	348.2	290.5	215.7	182.6	175.0	173.3	147.8	129.1	127.4	135.0
495.2	67.5°	286.2	241.2	181.8	152.0	146.9	148.6	129.9	111.3	109.6	118.1
403.4	70°	237.0	194.5	145.2	117.2	122.3	129.9	111.3	93.4	90.9	98.5
327.8	72.5°	188.6	152.0	111.3	86.6	101.1	110.4	90.9	73.9	72.2	79.0
253.1	75°	138.4	108.7	75.6	62.9	78.1	86.6	66.2	52.7	50.1	56.1
169.0	77.5°	85.8	61.2	47.6	37.4	53.5	57.8	34.8	30.6	29.7	34.0
102.8	80°	39.9	26.3	22.9	12.7	19.5	22.9	14.4	16.1	17.0	20.4
51.8	82.5°	11.0	4.2	0.8	0.0	0.0	6.8	3.4	6.8	8.5	12.7
4.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2	7.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1707.2	0°	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2	1707.2
1547.5	2.5°	1583.2	1617.1	1671.5	1727.6	1782.8	1838.8	1893.2	1912.7
1369.1	5°	1436.2	1514.4	1622.2	1737.7	1856.7	1977.3	2087.7	2137.8
1184.8	7.5°	1272.3	1384.4	1546.6	1727.6	1917.0	2106.4	2280.5	2361.2
1002.2	10°	1097.3	1239.2	1424.3	1669.0	1940.7	2202.3	2441.9	2546.3
841.7	12.5°	930.9	1079.5	1284.2	1577.2	1922.1	2257.5	2545.5	2668.6
728.7	15°	791.6	923.2	1144.1	1468.5	1861.8	2260.9	2594.7	2729.8
665.9	17.5°	687.1	772.9	1001.4	1347.9	1782.8	2229.5	2611.7	2756.1
631.9	20°	635.3	659.1	816.2	1193.3	1708.9	2199.8	2628.7	2780.7
604.7	22.5°	604.7	610.7	667.6	993.7	1620.5	2190.4	2658.4	2814.7
580.1	25°	580.1	581.8	597.1	787.3	1485.5	2184.5	2704.3	2861.4
554.6	27.5°	555.5	555.5	564.0	634.5	1302.0	2159.0	2763.8	2917.5
529.1	30°	530.8	530.8	536.8	561.4	1087.2	2108.9	2835.1	2990.5
503.7	32.5°	505.4	505.4	510.5	528.3	868.0	2046.1	2900.5	3064.4
477.3	35°	479.9	478.2	485.0	503.7	690.5	1966.2	2965.9	3144.3
451.0	37.5°	452.7	451.8	458.6	479.9	596.2	1873.6	3015.2	3253.0
424.7	40°	423.8	423.8	431.5	454.4	569.1	1757.3	3093.3	3409.2
397.5	42.5°	397.5	395.8	404.3	432.3	548.7	1646.0	3233.4	3636.9
372.9	45°	372.0	368.6	376.3	411.1	513.0	1606.9	3495.0	3973.2
349.1	47.5°	348.2	339.7	346.5	385.6	480.7	1753.0	3923.1	4439.5
327.8	50°	328.7	312.6	318.5	360.1	456.1	2069.8	4478.6	5058.7
308.3	52.5°	308.3	287.1	290.5	328.7	434.0	2371.4	5080.7	5875.7
288.8	55°	287.1	263.3	265.0	297.3	402.6	2416.4	5668.5	6990.1
266.7	57.5°	263.3	241.2	241.2	268.4	379.7	2094.5	6120.3	8372.8
239.5	60°	237.0	222.5	218.3	245.5	400.0	1477.9	6173.0	9264.6
204.7	62.5°	208.1	200.4	194.5	223.4	415.3	875.7	5749.2	9048.9
161.4	65°	175.0	173.3	169.0	245.5	349.9	517.2	4935.5	8387.2
137.6	67.5°	146.9	144.4	144.4	257.3	265.8	325.3	3856.0	7476.7
117.2	70°	126.6	117.2	117.2	194.5	161.4	225.1	2692.4	6494.0
96.8	72.5°	106.2	96.0	89.2	155.4	120.6	164.8	1682.5	5561.5
73.9	75°	84.9	77.3	68.8	102.8	90.0	124.9	977.6	4607.7
46.7	77.5°	61.2	57.8	48.4	75.6	65.4	90.0	581.8	3555.3
28.9	80°	31.4	32.3	30.6	43.3	44.2	61.2	331.2	2433.4
18.7	82.5°	18.7	14.4	16.1	21.2	25.5	34.8	124.9	1430.3
13.6	85°	11.9	7.6	7.6	10.2	12.7	13.6	38.2	580.1
6.8	87.5°	5.9	2.5	3.4	5.1	4.2	3.4	1.7	146.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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