

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: P949714

Luminaire Tested: **GALN-SB4B-850-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21509 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

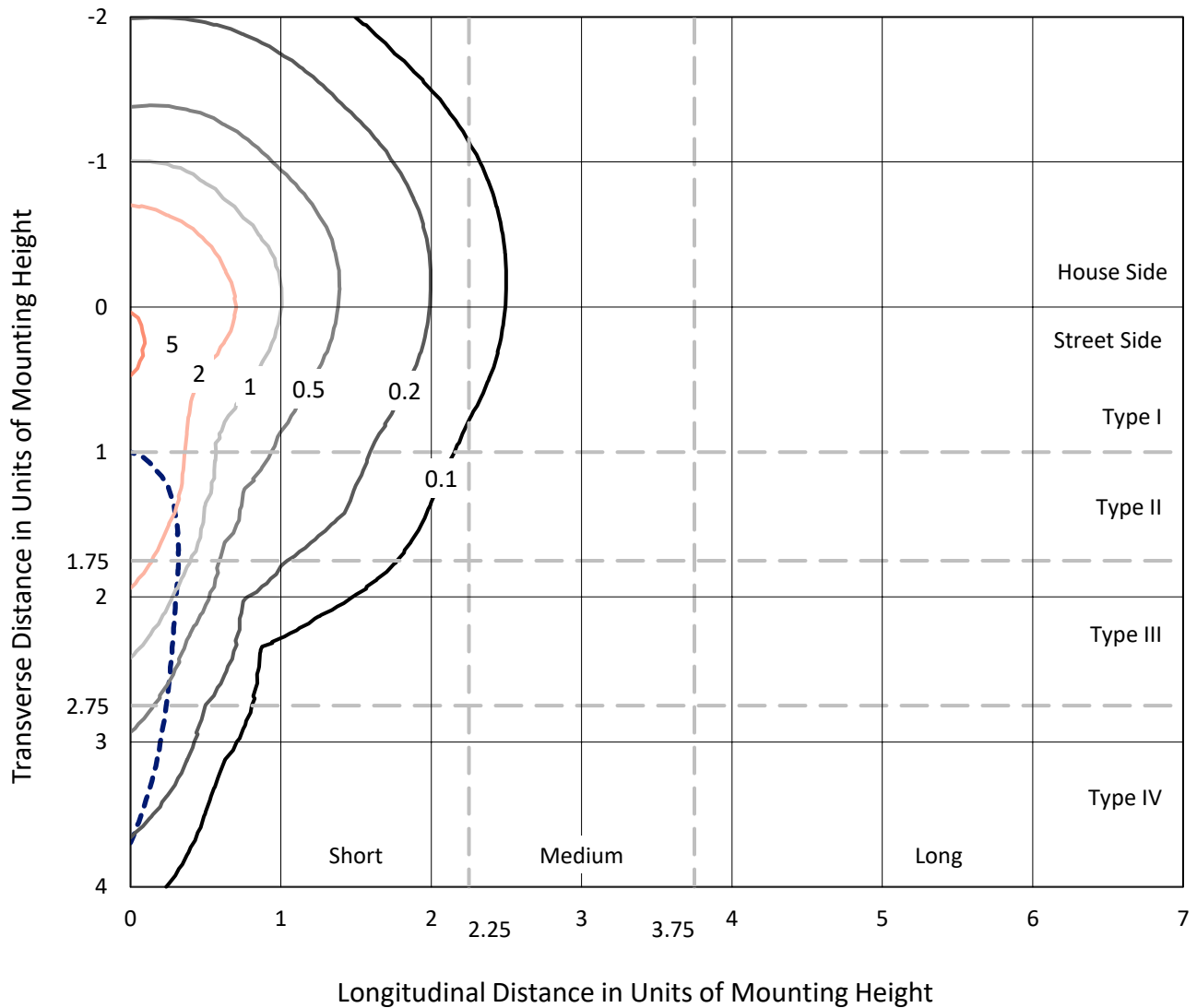
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

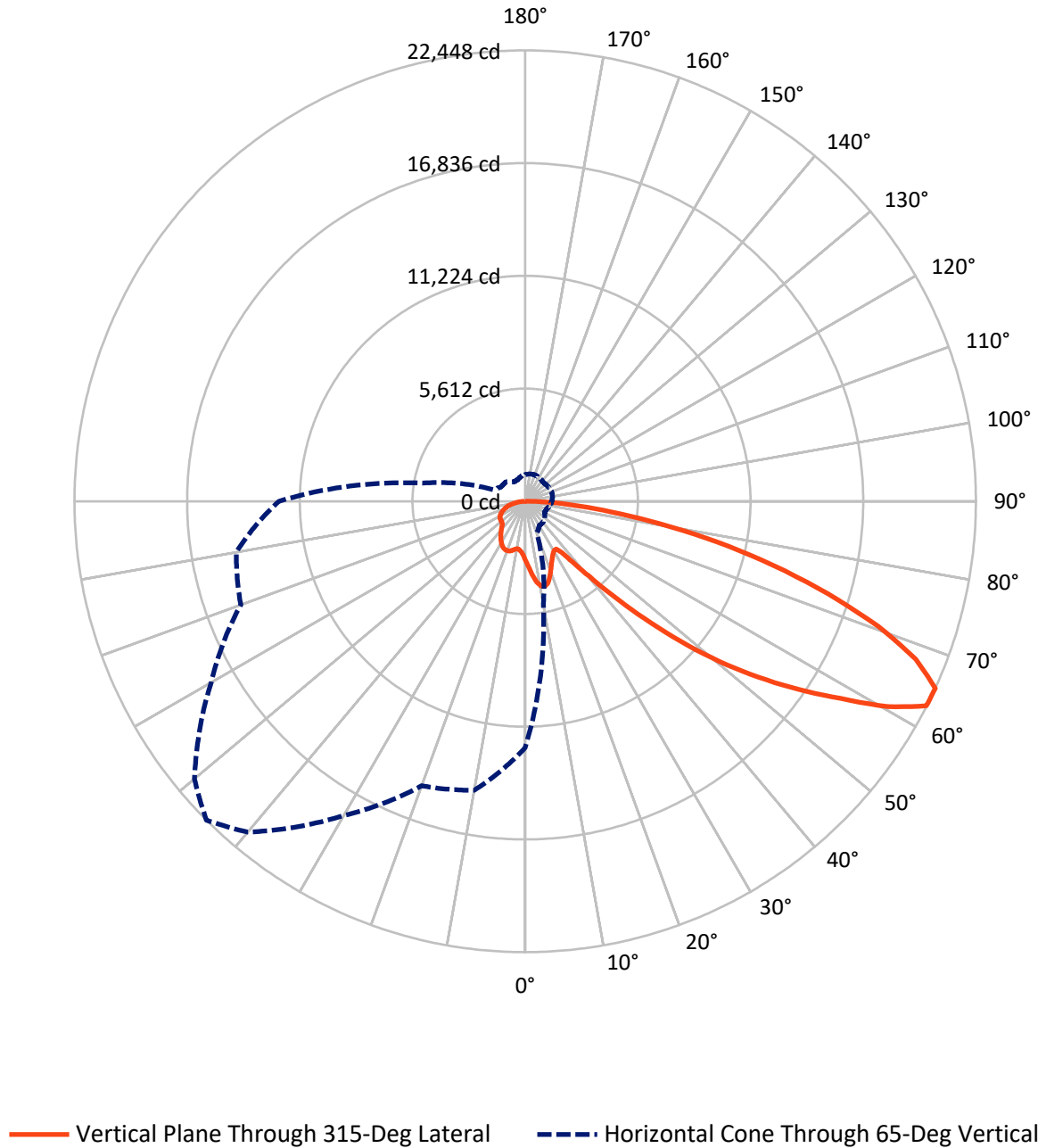
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5466.5	0.0	5466.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	16042.5	0.0	16042.5
	% Fixture	74.6	0.0	74.6
Total	Lumens	21509.0	0.0	21509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.4	1.4
10°-20°	921.0	4.3
20°-30°	1422.7	6.6
30°-40°	1802.9	8.4
40°-50°	2719.2	12.6
50°-60°	4393.3	20.4
60°-70°	5477.0	25.5
70°-80°	3591.5	16.7
80°-90°	887.9	4.1
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°	21509.0	100.0
0°-180°	21509.0	100.0



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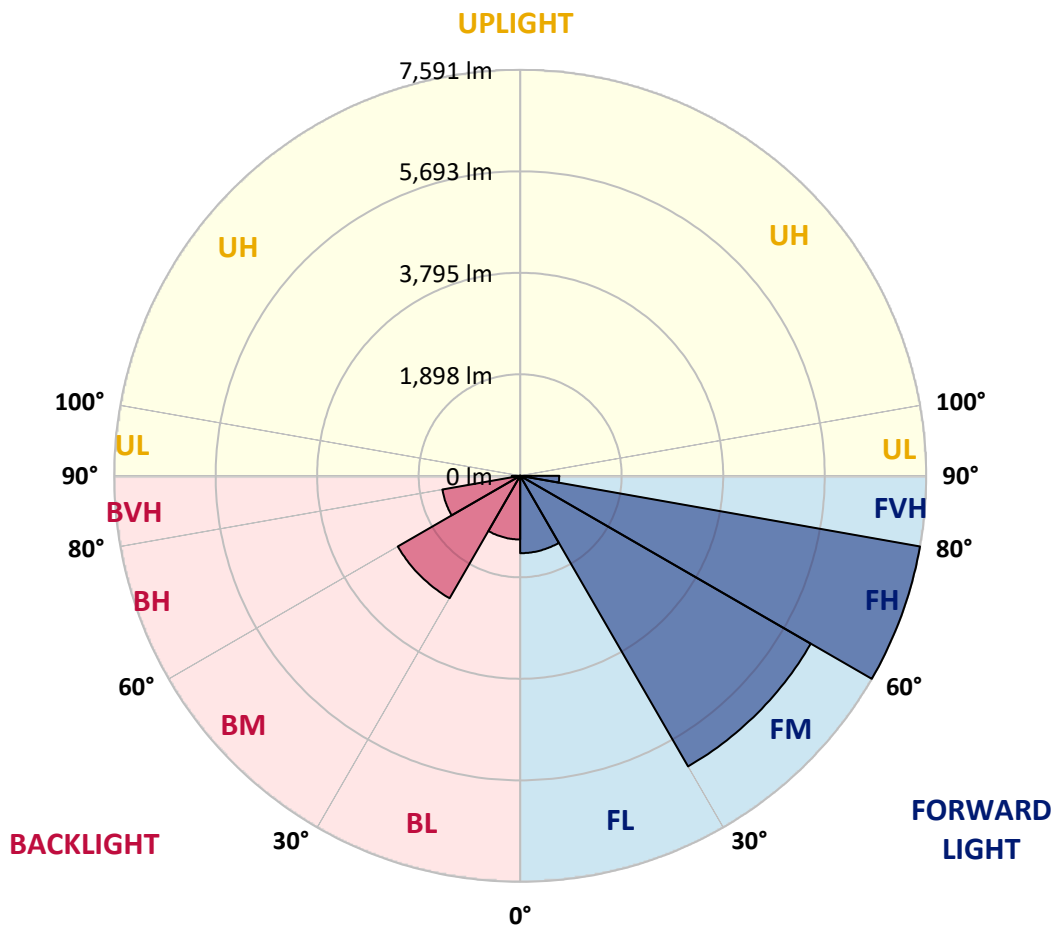
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.7	6.7			
FM (30°-60°)	6273.7	29.2			
FH (60°-80°)	7590.6	35.3			G4/12000
FVH (80°-90°)	731.4	3.4			G4/750
BL (0°-30°)	1190.4	5.5	B3/2500		
BM (30°-60°)	2641.7	12.3	B3/5000		
BH (60°-80°)	1477.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	156.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	3180.7	3156.3	3131.9	3105.9	3080.0	3053.9	3027.8	3002.8	2977.9	2953.7
5°	3420.2	3366.3	3312.3	3258.5	3204.9	3150.7	3096.7	3046.2	2995.7	2948.0
7.5°	3660.8	3571.8	3482.9	3400.8	3318.6	3238.6	3158.6	3088.1	3017.6	2952.6
10°	3845.2	3732.7	3620.3	3511.6	3403.1	3306.0	3208.7	3125.4	3041.9	2961.6
12.5°	3958.1	3834.5	3711.1	3588.0	3465.0	3350.4	3235.7	3141.4	3047.1	2962.8
15°	4026.8	3898.0	3769.2	3635.7	3502.2	3370.2	3238.2	3129.0	3019.9	2926.5
17.5°	4065.4	3934.7	3804.1	3658.5	3512.9	3359.7	3206.5	3075.1	2943.8	2834.0
20°	4107.9	3972.2	3836.3	3676.3	3516.3	3330.6	3144.9	2982.2	2819.4	2691.5
22.5°	4157.3	4018.6	3879.8	3700.4	3520.8	3295.0	3069.1	2873.1	2677.1	2531.5
25°	4220.9	4084.9	3949.0	3744.0	3538.8	3259.8	2980.9	2751.3	2521.9	2372.6
27.5°	4307.1	4177.5	4047.8	3812.1	3576.2	3236.3	2896.4	2640.0	2383.6	2247.8
30°	4423.5	4298.2	4173.0	3900.2	3627.5	3225.3	2822.8	2546.9	2271.0	2157.0
32.5°	4560.8	4436.7	4312.8	3992.3	3671.8	3211.7	2751.3	2466.7	2181.9	2090.0
35°	4727.6	4608.9	4490.1	4097.2	3704.2	3186.0	2668.0	2387.8	2107.6	2031.0
37.5°	5008.5	4857.1	4705.7	4214.6	3723.5	3142.1	2560.7	2295.0	2029.3	1962.3
40°	5433.0	5212.4	4991.7	4363.8	3735.7	3081.6	2427.7	2184.2	1940.8	1880.0
42.5°	5995.9	5677.5	5359.0	4558.9	3758.7	3019.2	2279.9	2062.0	1844.1	1788.1
45°	6691.1	6261.5	5831.9	4815.6	3799.2	2961.2	2123.3	1932.1	1741.0	1684.3
47.5°	7560.5	6955.9	6351.2	5089.1	3827.0	2913.3	1999.6	1829.4	1659.3	1586.1
50°	8699.9	7788.5	6876.9	5342.9	3808.9	2861.1	1913.3	1761.2	1609.1	1512.9
52.5°	10008.0	8663.1	7318.1	5507.7	3697.1	2772.9	1848.8	1716.3	1583.8	1473.2
55°	11400.5	9438.4	7476.5	5471.4	3466.1	2626.7	1787.3	1683.7	1580.1	1477.1
57.5°	12667.1	9988.0	7308.8	5215.8	3122.8	2420.6	1718.3	1645.1	1571.9	1481.1
60°	13432.7	10125.3	6817.9	4740.1	2662.4	2153.0	1643.6	1586.1	1528.5	1468.6
62.5°	13043.9	9547.1	6050.2	4096.9	2143.7	1832.7	1521.7	1483.5	1445.4	1438.0
65°	12265.9	8728.9	5191.8	3440.7	1689.7	1544.5	1399.4	1381.3	1363.3	1364.2
67.5°	11223.5	7755.2	4286.9	2797.9	1308.8	1267.6	1226.3	1236.4	1246.4	1243.9
70°	9971.1	6692.8	3414.5	2202.9	991.4	1003.2	1014.9	1061.6	1108.3	1108.3
72.5°	8478.6	5541.0	2603.6	1684.1	764.7	800.3	835.9	902.2	968.3	979.5
75°	6590.6	4220.8	1850.9	1222.3	593.8	626.0	658.3	732.5	806.7	858.0
77.5°	4708.9	2954.2	1199.4	828.3	457.2	479.1	501.1	573.1	645.2	729.8
80°	3081.9	1903.3	724.7	533.7	342.8	351.8	360.9	422.0	482.9	583.9
82.5°	1791.5	1101.6	411.8	328.2	244.9	246.5	248.3	293.3	338.2	424.5
85°	788.2	495.5	202.9	175.5	148.1	147.3	146.4	179.3	212.2	276.4
87.5°	244.0	162.3	80.6	72.8	64.9	64.1	63.3	76.7	90.2	116.9
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):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2926.8	2.5°	2905.0	2883.3	2863.7	2844.2	2827.0	2809.9	2792.7	2775.5	2762.2	2748.8
2900.9	5°	2859.8	2818.6	2784.1	2749.8	2719.3	2688.9	2661.3	2633.6	2612.4	2591.1
2891.6	7.5°	2836.9	2782.3	2736.9	2691.5	2653.3	2614.9	2581.1	2547.4	2522.1	2496.9
2896.2	10°	2838.5	2780.8	2735.5	2690.1	2648.9	2607.5	2569.5	2531.5	2501.3	2471.0
2901.8	12.5°	2854.6	2807.6	2777.4	2747.5	2715.0	2682.8	2643.4	2604.1	2565.5	2527.0
2877.7	15°	2855.1	2832.6	2836.7	2840.8	2832.4	2824.0	2789.8	2755.7	2700.7	2645.8
2803.9	17.5°	2812.2	2820.3	2869.8	2919.3	2945.6	2971.9	2944.3	2916.8	2844.1	2771.3
2683.6	20°	2722.2	2760.8	2846.7	2932.7	2987.7	3042.8	3030.1	3017.3	2934.1	2851.0
2547.0	22.5°	2604.1	2661.2	2759.3	2857.6	2929.2	3000.8	3008.5	3016.1	2936.7	2857.2
2414.6	25°	2480.4	2546.3	2634.4	2722.7	2793.2	2863.7	2890.0	2916.2	2851.1	2786.1
2298.8	27.5°	2362.4	2425.9	2498.5	2570.9	2627.4	2683.9	2713.2	2742.6	2696.2	2649.9
2197.0	30°	2247.4	2298.0	2358.2	2418.3	2465.2	2512.2	2536.0	2559.9	2524.6	2489.2
2107.8	32.5°	2137.7	2167.5	2215.5	2263.7	2308.6	2353.7	2380.1	2406.7	2374.2	2341.6
2023.6	35°	2031.8	2040.1	2076.7	2113.3	2157.8	2202.4	2234.1	2265.9	2242.8	2219.7
1935.3	37.5°	1926.2	1917.2	1943.5	1969.7	2014.1	2058.6	2097.8	2137.1	2126.4	2115.8
1838.6	40°	1818.1	1797.5	1816.5	1835.4	1878.3	1921.2	1966.4	2011.7	2014.3	2016.8
1735.9	42.5°	1708.7	1681.4	1696.9	1712.4	1753.0	1793.8	1842.6	1891.4	1904.4	1917.5
1633.8	45°	1607.2	1580.8	1593.7	1606.9	1645.4	1684.0	1734.7	1785.3	1804.0	1822.7
1542.6	47.5°	1520.4	1498.1	1510.4	1522.5	1560.3	1598.0	1647.9	1697.9	1719.4	1741.0
1462.4	50°	1442.6	1423.0	1442.1	1461.2	1496.9	1532.4	1577.1	1621.8	1649.5	1677.2
1402.6	52.5°	1383.0	1363.6	1392.4	1421.0	1453.6	1486.2	1527.9	1569.6	1602.4	1635.2
1370.8	55°	1339.9	1309.2	1349.9	1390.5	1425.7	1460.9	1497.4	1533.9	1568.6	1603.5
1351.7	57.5°	1306.8	1261.8	1305.6	1349.5	1390.8	1432.1	1468.2	1504.4	1539.4	1574.4
1333.8	60°	1275.6	1217.2	1255.7	1294.1	1341.5	1388.9	1425.6	1462.4	1497.6	1532.7
1312.9	62.5°	1240.0	1167.3	1191.7	1216.1	1271.4	1326.8	1365.9	1405.1	1437.3	1469.5
1268.9	65°	1191.5	1114.0	1123.4	1132.7	1191.9	1251.3	1288.7	1326.2	1354.6	1382.9
1190.3	67.5°	1125.9	1061.4	1058.5	1055.5	1110.2	1165.0	1200.5	1236.0	1260.5	1285.0
1090.7	70°	1044.8	999.0	988.8	978.6	1026.7	1074.8	1105.4	1136.1	1158.2	1180.3
979.7	72.5°	948.2	916.8	901.8	887.0	924.9	962.7	990.4	1018.0	1039.7	1061.4
853.7	75°	829.5	805.2	790.9	776.5	804.7	832.8	857.9	883.0	902.7	922.5
727.5	77.5°	708.1	688.7	674.2	659.6	682.6	705.4	726.9	748.5	769.3	789.9
583.6	80°	567.4	551.0	538.9	526.6	545.7	564.6	582.8	601.0	616.7	632.4
429.2	82.5°	421.3	413.3	404.7	396.1	394.5	392.9	386.6	380.2	413.8	447.4
282.6	85°	274.1	265.6	255.9	246.3	238.1	229.8	212.2	194.6	226.1	257.6
124.8	87.5°	121.4	118.0	116.2	114.4	114.1	113.7	100.3	86.8	100.0	113.3
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2738.1	2.5°	2727.3	2718.9	2710.5	2702.8	2694.9	2685.3	2694.9	2702.8	2710.5	2718.9
2576.2	5°	2561.3	2550.8	2540.2	2532.2	2524.1	2516.2	2524.1	2532.2	2540.2	2550.8
2479.2	7.5°	2461.5	2449.3	2437.3	2430.0	2422.9	2417.4	2422.9	2430.0	2437.3	2449.3
2451.3	10°	2431.3	2419.8	2408.4	2402.2	2396.1	2393.6	2396.1	2402.2	2408.4	2419.8
2501.4	12.5°	2475.9	2463.1	2450.4	2445.1	2439.9	2439.0	2439.9	2445.1	2450.4	2463.1
2607.0	15°	2568.2	2550.3	2532.6	2525.8	2519.0	2518.4	2519.0	2525.8	2532.6	2550.3
2714.1	17.5°	2656.9	2630.6	2604.1	2595.5	2586.8	2585.4	2586.8	2595.5	2604.1	2630.6
2780.8	20°	2710.8	2677.1	2643.3	2632.5	2621.7	2618.3	2621.7	2632.5	2643.3	2677.1
2785.0	22.5°	2712.8	2677.2	2641.6	2629.7	2617.8	2612.6	2617.8	2629.7	2641.6	2677.2
2721.8	25°	2657.8	2626.9	2596.2	2585.0	2573.8	2567.3	2573.8	2585.0	2596.2	2626.9
2600.1	27.5°	2550.2	2529.6	2508.8	2503.7	2498.6	2496.9	2498.6	2503.7	2508.8	2529.6
2453.5	30°	2417.7	2407.1	2396.4	2396.4	2396.4	2398.1	2396.4	2396.4	2396.4	2407.1
2313.1	32.5°	2284.6	2277.7	2270.8	2271.7	2272.7	2274.4	2272.7	2271.7	2270.8	2277.7
2193.4	35°	2167.2	2156.6	2146.2	2143.9	2141.6	2140.5	2141.6	2143.9	2146.2	2156.6
2091.6	37.5°	2067.3	2048.1	2029.1	2019.0	2008.9	2003.2	2008.9	2019.0	2029.1	2048.1
1996.3	40°	1975.7	1947.8	1920.1	1901.3	1882.7	1871.5	1882.7	1901.3	1920.1	1947.8
1900.1	42.5°	1882.9	1848.3	1813.6	1786.3	1758.9	1741.0	1758.9	1786.3	1813.6	1848.3
1807.1	45°	1791.5	1751.9	1712.4	1680.3	1648.2	1627.5	1648.2	1680.3	1712.4	1751.9
1730.1	47.5°	1719.2	1684.0	1648.9	1619.1	1589.5	1569.6	1589.5	1619.1	1648.9	1684.0
1676.5	50°	1676.1	1647.9	1619.8	1592.3	1564.9	1545.8	1564.9	1592.3	1619.8	1647.9
1641.1	52.5°	1647.0	1624.1	1601.2	1576.6	1552.0	1534.4	1552.0	1576.6	1601.2	1624.1
1611.6	55°	1619.8	1599.8	1579.8	1558.3	1536.7	1520.8	1536.7	1558.3	1579.8	1599.8
1582.7	57.5°	1591.0	1570.8	1550.6	1529.2	1507.8	1491.3	1507.8	1529.2	1550.6	1570.8
1541.8	60°	1550.9	1531.2	1511.5	1489.5	1467.5	1450.5	1467.5	1489.5	1511.5	1531.2
1478.3	62.5°	1487.0	1469.2	1451.4	1428.2	1405.1	1384.6	1405.1	1428.2	1451.4	1469.2
1391.9	65°	1400.8	1383.6	1366.5	1344.0	1321.6	1304.1	1321.6	1344.0	1366.5	1383.6
1293.7	67.5°	1302.4	1286.6	1270.9	1250.0	1229.1	1213.3	1229.1	1250.0	1270.9	1286.6
1188.7	70°	1197.1	1184.3	1171.5	1151.5	1131.5	1113.4	1131.5	1151.5	1171.5	1184.3
1071.4	72.5°	1081.4	1070.7	1060.0	1041.0	1022.0	1004.4	1022.0	1041.0	1060.0	1070.7
932.9	75°	943.4	938.1	932.9	916.9	900.9	884.1	900.9	916.9	932.9	938.1
799.7	77.5°	809.4	802.2	794.7	778.6	762.5	749.1	762.5	778.6	794.7	802.2
645.3	80°	658.3	655.1	652.0	630.3	608.6	583.4	608.6	630.3	652.0	655.1
469.4	82.5°	491.4	490.1	488.6	470.3	451.9	435.8	451.9	470.3	488.6	490.1
284.9	85°	312.1	309.8	307.6	293.3	279.0	264.4	279.0	293.3	307.6	309.8
124.3	87.5°	135.3	132.6	129.6	122.3	114.9	107.8	114.9	122.3	129.6	132.6
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2727.3	2.5°	2738.1	2748.8	2762.2	2775.5	2792.7	2809.9	2827.0	2844.2	2863.7	2883.3
2561.3	5°	2576.2	2591.1	2612.4	2633.6	2661.3	2688.9	2719.3	2749.8	2784.1	2818.6
2461.5	7.5°	2479.2	2496.9	2522.1	2547.4	2581.1	2614.9	2653.3	2691.5	2736.9	2782.3
2431.3	10°	2451.3	2471.0	2501.3	2531.5	2569.5	2607.5	2648.9	2690.1	2735.5	2780.8
2475.9	12.5°	2501.4	2527.0	2565.5	2604.1	2643.4	2682.8	2715.0	2747.5	2777.4	2807.6
2568.2	15°	2607.0	2645.8	2700.7	2755.7	2789.8	2824.0	2832.4	2840.8	2836.7	2832.6
2656.9	17.5°	2714.1	2771.3	2844.1	2916.8	2944.3	2971.9	2945.6	2919.3	2869.8	2820.3
2710.8	20°	2780.8	2851.0	2934.1	3017.3	3030.1	3042.8	2987.7	2932.7	2846.7	2760.8
2712.8	22.5°	2785.0	2857.2	2936.7	3016.1	3008.5	3000.8	2929.2	2857.6	2759.3	2661.2
2657.8	25°	2721.8	2786.1	2851.1	2916.2	2890.0	2863.7	2793.2	2722.7	2634.4	2546.3
2550.2	27.5°	2600.1	2649.9	2696.2	2742.6	2713.2	2683.9	2627.4	2570.9	2498.5	2425.9
2417.7	30°	2453.5	2489.2	2524.6	2559.9	2536.0	2512.2	2465.2	2418.3	2358.2	2298.0
2284.6	32.5°	2313.1	2341.6	2374.2	2406.7	2380.1	2353.7	2308.6	2263.7	2215.5	2167.5
2167.2	35°	2193.4	2219.7	2242.8	2265.9	2234.1	2202.4	2157.8	2113.3	2076.7	2040.1
2067.3	37.5°	2091.6	2115.8	2126.4	2137.1	2097.8	2058.6	2014.1	1969.7	1943.5	1917.2
1975.7	40°	1996.3	2016.8	2014.3	2011.7	1966.4	1921.2	1878.3	1835.4	1816.5	1797.5
1882.9	42.5°	1900.1	1917.5	1904.4	1891.4	1842.6	1793.8	1753.0	1712.4	1696.9	1681.4
1791.5	45°	1807.1	1822.7	1804.0	1785.3	1734.7	1684.0	1645.4	1606.9	1593.7	1580.8
1719.2	47.5°	1730.1	1741.0	1719.4	1697.9	1647.9	1598.0	1560.3	1522.5	1510.4	1498.1
1676.1	50°	1676.5	1677.2	1649.5	1621.8	1577.1	1532.4	1496.9	1461.2	1442.1	1423.0
1647.0	52.5°	1641.1	1635.2	1602.4	1569.6	1527.9	1486.2	1453.6	1421.0	1392.4	1363.6
1619.8	55°	1611.6	1603.5	1568.6	1533.9	1497.4	1460.9	1425.7	1390.5	1349.9	1309.2
1591.0	57.5°	1582.7	1574.4	1539.4	1504.4	1468.2	1432.1	1390.8	1349.5	1305.6	1261.8
1550.9	60°	1541.8	1532.7	1497.6	1462.4	1425.6	1388.9	1341.5	1294.1	1255.7	1217.2
1487.0	62.5°	1478.3	1469.5	1437.3	1405.1	1365.9	1326.8	1271.4	1216.1	1191.7	1167.3
1400.8	65°	1391.9	1382.9	1354.6	1326.2	1288.7	1251.3	1191.9	1132.7	1123.4	1114.0
1302.4	67.5°	1293.7	1285.0	1260.5	1236.0	1200.5	1165.0	1110.2	1055.5	1058.5	1061.4
1197.1	70°	1188.7	1180.3	1158.2	1136.1	1105.4	1074.8	1026.7	978.6	988.8	999.0
1081.4	72.5°	1071.4	1061.4	1039.7	1018.0	990.4	962.7	924.9	887.0	901.8	916.8
943.4	75°	932.9	922.5	902.7	883.0	857.9	832.8	804.7	776.5	790.9	805.2
809.4	77.5°	799.7	789.9	769.3	748.5	726.9	705.4	682.6	659.6	674.2	688.7
658.3	80°	645.3	632.4	616.7	601.0	582.8	564.6	545.7	526.6	538.9	551.0
491.4	82.5°	469.4	447.4	413.8	380.2	386.6	392.9	394.5	396.1	404.7	413.3
312.1	85°	284.9	257.6	226.1	194.6	212.2	229.8	238.1	246.3	255.9	265.6
135.3	87.5°	124.3	113.3	100.0	86.8	100.3	113.7	114.1	114.4	116.2	118.0
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
2905.0	2.5°	2926.8	2953.7	2977.9	3002.8	3027.8	3053.9	3080.0	3105.9	3131.9	3156.3
2859.8	5°	2900.9	2948.0	2995.7	3046.2	3096.7	3150.7	3204.9	3258.5	3312.3	3366.3
2836.9	7.5°	2891.6	2952.6	3017.6	3088.1	3158.6	3238.6	3318.6	3400.8	3482.9	3571.8
2838.5	10°	2896.2	2961.6	3041.9	3125.4	3208.7	3306.0	3403.1	3511.6	3620.3	3732.7
2854.6	12.5°	2901.8	2962.8	3047.1	3141.4	3235.7	3350.4	3465.0	3588.0	3711.1	3834.5
2855.1	15°	2877.7	2926.5	3019.9	3129.0	3238.2	3370.2	3502.2	3635.7	3769.2	3898.0
2812.2	17.5°	2803.9	2834.0	2943.8	3075.1	3206.5	3359.7	3512.9	3658.5	3804.1	3934.7
2722.2	20°	2683.6	2691.5	2819.4	2982.2	3144.9	3330.6	3516.3	3676.3	3836.3	3972.2
2604.1	22.5°	2547.0	2531.5	2677.1	2873.1	3069.1	3295.0	3520.8	3700.4	3879.8	4018.6
2480.4	25°	2414.6	2372.6	2521.9	2751.3	2980.9	3259.8	3538.8	3744.0	3949.0	4084.9
2362.4	27.5°	2298.8	2247.8	2383.6	2640.0	2896.4	3236.3	3576.2	3812.1	4047.8	4177.5
2247.4	30°	2197.0	2157.0	2271.0	2546.9	2822.8	3225.3	3627.5	3900.2	4173.0	4298.2
2137.7	32.5°	2107.8	2090.0	2181.9	2466.7	2751.3	3211.7	3671.8	3992.3	4312.8	4436.7
2031.8	35°	2023.6	2031.0	2107.6	2387.8	2668.0	3186.0	3704.2	4097.2	4490.1	4608.9
1926.2	37.5°	1935.3	1962.3	2029.3	2295.0	2560.7	3142.1	3723.5	4214.6	4705.7	4857.1
1818.1	40°	1838.6	1880.0	1940.8	2184.2	2427.7	3081.6	3735.7	4363.8	4991.7	5212.4
1708.7	42.5°	1735.9	1788.1	1844.1	2062.0	2279.9	3019.2	3758.7	4558.9	5359.0	5677.5
1607.2	45°	1633.8	1684.3	1741.0	1932.1	2123.3	2961.2	3799.2	4815.6	5831.9	6261.5
1520.4	47.5°	1542.6	1586.1	1659.3	1829.4	1999.6	2913.3	3827.0	5089.1	6351.2	6955.9
1442.6	50°	1462.4	1512.9	1609.1	1761.2	1913.3	2861.1	3808.9	5342.9	6876.9	7788.5
1383.0	52.5°	1402.6	1473.2	1583.8	1716.3	1848.8	2772.9	3697.1	5507.7	7318.1	8663.1
1339.9	55°	1370.8	1477.1	1580.1	1683.7	1787.3	2626.7	3466.1	5471.4	7476.5	9438.4
1306.8	57.5°	1351.7	1481.1	1571.9	1645.1	1718.3	2420.6	3122.8	5215.8	7308.8	9988.0
1275.6	60°	1333.8	1468.6	1528.5	1586.1	1643.6	2153.0	2662.4	4740.1	6817.9	10125.3
1240.0	62.5°	1312.9	1438.0	1445.4	1483.5	1521.7	1832.7	2143.7	4096.9	6050.2	9547.1
1191.5	65°	1268.9	1364.2	1363.3	1381.3	1399.4	1544.5	1689.7	3440.7	5191.8	8728.9
1125.9	67.5°	1190.3	1243.9	1246.4	1236.4	1226.3	1267.6	1308.8	2797.9	4286.9	7755.2
1044.8	70°	1090.7	1108.3	1108.3	1061.6	1014.9	1003.2	991.4	2202.9	3414.5	6692.8
948.2	72.5°	979.7	979.5	968.3	902.2	835.9	800.3	764.7	1684.1	2603.6	5541.0
829.5	75°	853.7	858.0	806.7	732.5	658.3	626.0	593.8	1222.3	1850.9	4220.8
708.1	77.5°	727.5	729.8	645.2	573.1	501.1	479.1	457.2	828.3	1199.4	2954.2
567.4	80°	583.6	583.9	482.9	422.0	360.9	351.8	342.8	533.7	724.7	1903.3
421.3	82.5°	429.2	424.5	338.2	293.3	248.3	246.5	244.9	328.2	411.8	1101.6
274.1	85°	282.6	276.4	212.2	179.3	146.4	147.3	148.1	175.5	202.9	495.5
121.4	87.5°	124.8	116.9	90.2	76.7	63.3	64.1	64.9	72.8	80.6	162.3
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
3180.7	2.5°	3192.7	3204.9	3222.0	3239.1	3249.4	3259.6	3264.7	3269.8	3267.5	3269.8
3420.2	5°	3462.3	3504.5	3546.3	3588.1	3610.8	3633.5	3647.3	3661.1	3671.6	3661.1
3660.8	7.5°	3729.3	3797.8	3859.4	3921.0	3958.1	3995.2	4015.3	4035.3	4045.0	4035.3
3845.2	10°	3926.2	4007.3	4079.6	4151.9	4195.7	4239.3	4258.8	4278.2	4285.6	4278.2
3958.1	12.5°	4046.0	4133.7	4199.1	4264.2	4296.0	4327.8	4338.4	4349.1	4350.3	4349.1
4026.8	15°	4102.6	4178.3	4219.3	4260.4	4261.5	4262.6	4251.3	4239.9	4226.5	4239.9
4065.4	17.5°	4116.6	4167.8	4168.5	4169.2	4123.3	4077.3	4035.2	3993.0	3963.2	3993.0
4107.9	20°	4125.8	4143.7	4089.8	4035.9	3934.4	3832.9	3759.1	3685.2	3639.8	3685.2
4157.3	22.5°	4133.9	4110.6	3998.9	3887.2	3737.9	3588.7	3496.3	3403.9	3353.8	3403.9
4220.9	25°	4147.1	4073.3	3903.8	3734.2	3553.0	3371.7	3274.6	3177.6	3130.2	3177.6
4307.1	27.5°	4175.2	4043.2	3818.6	3594.2	3393.3	3192.4	3096.8	3001.4	2956.5	3001.4
4423.5	30°	4226.8	4030.2	3753.7	3477.3	3268.0	3058.7	2970.0	2881.4	2839.6	2881.4
4560.8	32.5°	4291.5	4022.3	3709.5	3396.7	3200.0	3003.3	2933.7	2864.0	2834.0	2864.0
4727.6	35°	4398.0	4068.6	3742.6	3416.8	3280.1	3143.6	3127.3	3111.1	3108.6	3111.1
5008.5	37.5°	4620.8	4233.1	3936.9	3640.7	3631.8	3623.0	3697.2	3771.4	3810.0	3771.4
5433.0	40°	5011.4	4589.7	4369.4	4149.1	4304.6	4460.1	4640.6	4821.0	4910.9	4821.0
5995.9	42.5°	5577.6	5159.2	5032.4	4905.5	5244.6	5583.7	5911.9	6240.2	6432.9	6240.2
6691.1	45°	6315.3	5939.4	5883.5	5827.4	6370.7	6914.1	7453.4	7992.9	8320.3	7992.9
7560.5	47.5°	7194.9	6829.2	6817.9	6806.5	7590.3	8373.9	9163.5	9952.9	10416.5	9952.9
8699.9	50°	8248.3	7796.9	7798.8	7800.7	8810.8	9820.9	10863.1	11905.4	12535.5	11905.4
10008.0	52.5°	9461.1	8914.4	8859.2	8803.8	10010.3	11216.9	12506.4	13795.9	14551.2	13795.9
11400.5	55°	10860.3	10320.1	10104.5	9889.0	11231.9	12574.6	14111.9	15649.2	16547.5	15649.2
12667.1	57.5°	12373.0	12078.7	11646.4	11214.2	12570.1	13926.0	15667.3	17408.4	18522.3	17408.4
13432.7	60°	13889.6	14346.6	13809.8	13273.0	14556.2	15839.3	17703.6	19567.9	20771.8	19567.9
13043.9	62.5°	14292.5	15541.1	15480.6	15420.0	16595.4	17771.0	19544.7	21318.3	22431.1	21318.3
12265.9	65°	13437.8	14609.6	14841.5	15073.2	16567.1	18061.0	19780.9	21500.7	22448.1	21500.7
11223.5	67.5°	12338.0	13452.5	13561.3	13669.9	15226.3	16782.7	18510.0	20237.2	20979.5	20237.2
9971.1	70°	11183.3	12395.7	12444.2	12492.9	13884.8	15276.6	16763.1	18249.4	18661.9	18249.4
8478.6	72.5°	9869.7	11260.9	11295.9	11330.7	12419.7	13508.7	14622.0	15735.1	15776.9	15735.1
6590.6	75°	8030.4	9470.2	9599.5	9728.8	10576.0	11423.2	12206.9	12990.6	12780.6	12990.6
4708.9	77.5°	6052.9	7397.0	7582.0	7767.0	8411.1	9055.2	9611.0	10166.9	9805.9	10166.9
3081.9	80°	4212.7	5343.3	5573.3	5803.2	6289.7	6775.9	7067.8	7359.6	6779.0	7359.6
1791.5	82.5°	2564.5	3337.7	3594.5	3851.4	4186.3	4521.1	4642.8	4764.5	4308.3	4764.5
788.2	85°	1198.5	1608.8	1827.3	2045.7	2320.9	2595.9	2665.0	2734.1	2368.6	2734.1
244.0	87.5°	381.9	519.8	641.7	763.6	901.1	1038.7	1044.6	1050.4	881.9	1050.4
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):

325°		330°	335°	340°	345°	350°	355°	360°
2957.7	0°	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7	2957.7
3264.7	2.5°	3259.6	3249.4	3239.1	3222.0	3204.9	3192.7	3180.7
3647.3	5°	3633.5	3610.8	3588.1	3546.3	3504.5	3462.3	3420.2
4015.3	7.5°	3995.2	3958.1	3921.0	3859.4	3797.8	3729.3	3660.8
4258.8	10°	4239.3	4195.7	4151.9	4079.6	4007.3	3926.2	3845.2
4338.4	12.5°	4327.8	4296.0	4264.2	4199.1	4133.7	4046.0	3958.1
4251.3	15°	4262.6	4261.5	4260.4	4219.3	4178.3	4102.6	4026.8
4035.2	17.5°	4077.3	4123.3	4169.2	4168.5	4167.8	4116.6	4065.4
3759.1	20°	3832.9	3934.4	4035.9	4089.8	4143.7	4125.8	4107.9
3496.3	22.5°	3588.7	3737.9	3887.2	3998.9	4110.6	4133.9	4157.3
3274.6	25°	3371.7	3553.0	3734.2	3903.8	4073.3	4147.1	4220.9
3096.8	27.5°	3192.4	3393.3	3594.2	3818.6	4043.2	4175.2	4307.1
2970.0	30°	3058.7	3268.0	3477.3	3753.7	4030.2	4226.8	4423.5
2933.7	32.5°	3003.3	3200.0	3396.7	3709.5	4022.3	4291.5	4560.8
3127.3	35°	3143.6	3280.1	3416.8	3742.6	4068.6	4398.0	4727.6
3697.2	37.5°	3623.0	3631.8	3640.7	3936.9	4233.1	4620.8	5008.5
4640.6	40°	4460.1	4304.6	4149.1	4369.4	4589.7	5011.4	5433.0
5911.9	42.5°	5583.7	5244.6	4905.5	5032.4	5159.2	5577.6	5995.9
7453.4	45°	6914.1	6370.7	5827.4	5883.5	5939.4	6315.3	6691.1
9163.5	47.5°	8373.9	7590.3	6806.5	6817.9	6829.2	7194.9	7560.5
10863.1	50°	9820.9	8810.8	7800.7	7798.8	7796.9	8248.3	8699.9
12506.4	52.5°	11216.9	10010.3	8803.8	8859.2	8914.4	9461.1	10008.0
14111.9	55°	12574.6	11231.9	9889.0	10104.5	10320.1	10860.3	11400.5
15667.3	57.5°	13926.0	12570.1	11214.2	11646.4	12078.7	12373.0	12667.1
17703.6	60°	15839.3	14556.2	13273.0	13809.8	14346.6	13889.6	13432.7
19544.7	62.5°	17771.0	16595.4	15420.0	15480.6	15541.1	14292.5	13043.9
19780.9	65°	18061.0	16567.1	15073.2	14841.5	14609.6	13437.8	12265.9
18510.0	67.5°	16782.7	15226.3	13669.9	13561.3	13452.5	12338.0	11223.5
16763.1	70°	15276.6	13884.8	12492.9	12444.2	12395.7	11183.3	9971.1
14622.0	72.5°	13508.7	12419.7	11330.7	11295.9	11260.9	9869.7	8478.6
12206.9	75°	11423.2	10576.0	9728.8	9599.5	9470.2	8030.4	6590.6
9611.0	77.5°	9055.2	8411.1	7767.0	7582.0	7397.0	6052.9	4708.9
7067.8	80°	6775.9	6289.7	5803.2	5573.3	5343.3	4212.7	3081.9
4642.8	82.5°	4521.1	4186.3	3851.4	3594.5	3337.7	2564.5	1791.5
2665.0	85°	2595.9	2320.9	2045.7	1827.3	1608.8	1198.5	788.2
1044.6	87.5°	1038.7	901.1	763.6	641.7	519.8	381.9	244.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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