

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: P949042

Luminaire Tested: **GALN-SB3D-930-U-SLR**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949042  
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-SB3D-930-U-SLR  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

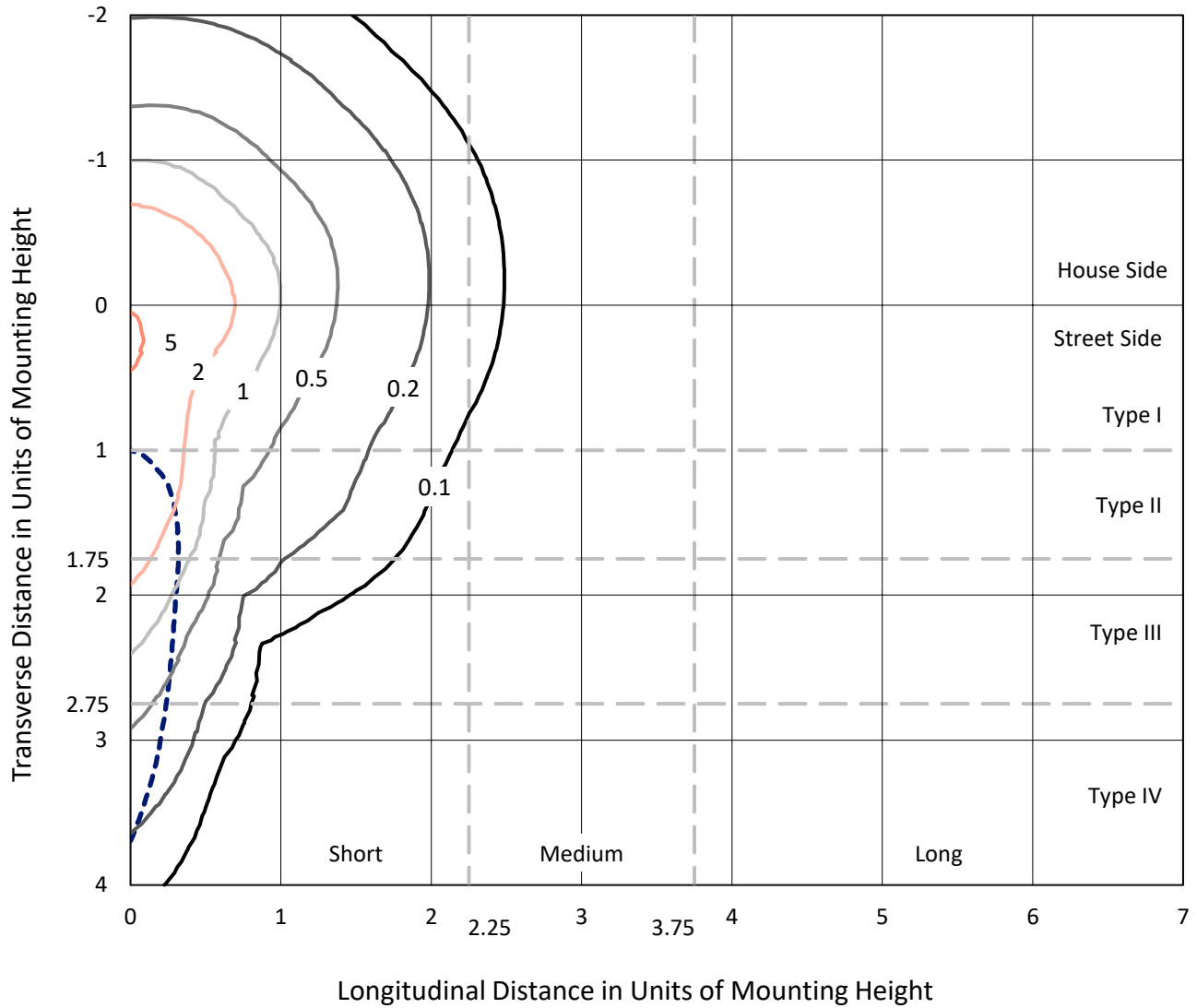
Lumens per Lamp: N/A  
Luminaire Lumens: 21163 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

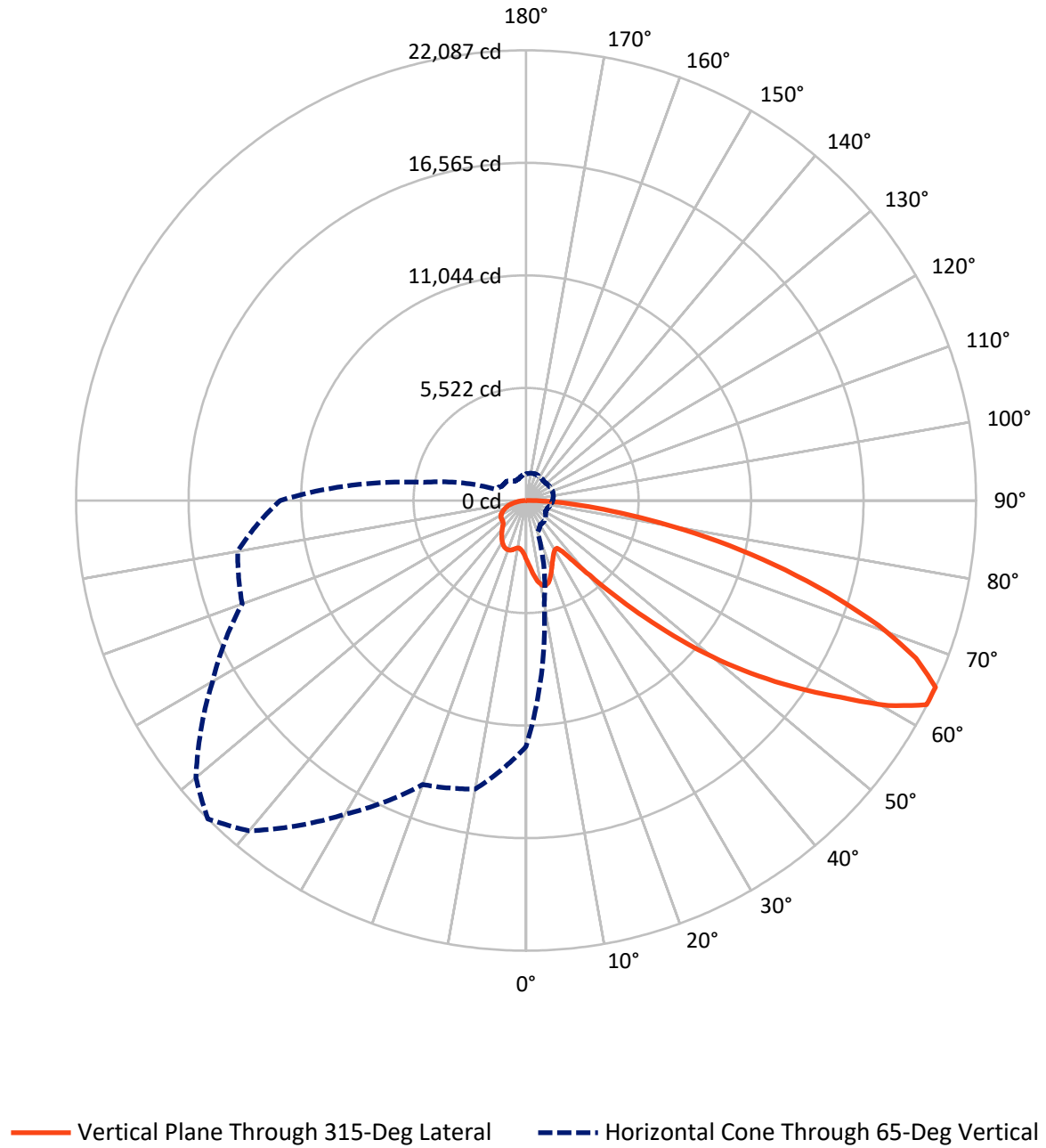
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	5378.6	0.0	5378.6
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	15784.4	0.0	15784.4
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	21163.0	0.0	21163.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.7	1.4
10°-20°	906.2	4.3
20°-30°	1399.8	6.6
30°-40°	1773.9	8.4
40°-50°	2675.5	12.6
50°-60°	4322.7	20.4
60°-70°	5388.9	25.5
70°-80°	3533.8	16.7
80°-90°	873.6	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°	21163.0	100.0
0°-180°	21163.0	100.0

**Coefficient of Utilization**



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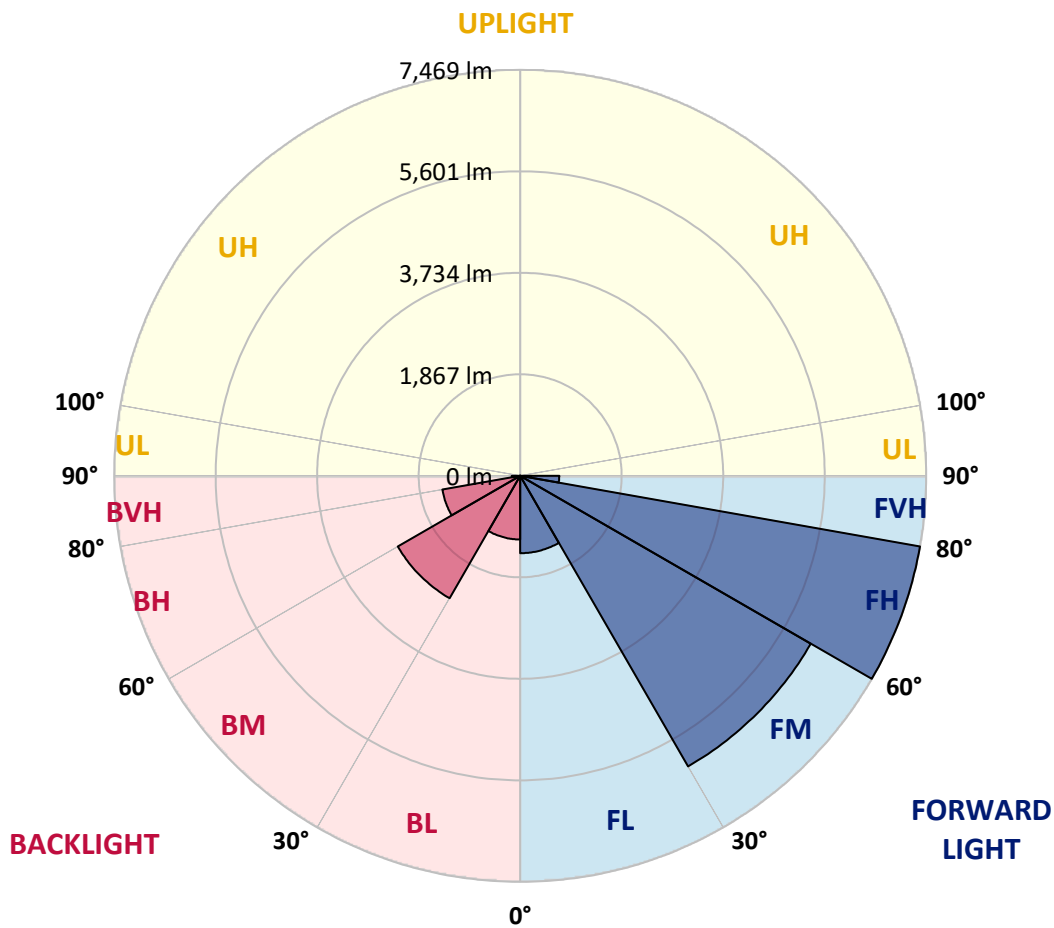
CATALOG NUMBER: GALN-SB3D-930-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.5	6.7			
FM (30°-60°)	6172.8	29.2			
FH (60°-80°)	7468.5	35.3			G3/7500
FVH (80°-90°)	719.7	3.4			G4/750
BL (0°-30°)	1171.2	5.5	B3/2500		
BM (30°-60°)	2599.3	12.3	B3/5000		
BH (60°-80°)	1454.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	154.0	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°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	3129.5	3105.5	3081.5	3055.9	3030.5	3004.8	2979.1	2954.5	2930.0	2906.2
5°	3365.1	3312.1	3259.1	3206.1	3153.3	3100.0	3046.9	2997.2	2947.5	2900.6
7.5°	3601.9	3514.3	3426.9	3346.1	3265.2	3186.5	3107.7	3038.4	2969.1	2905.1
10°	3783.3	3672.7	3562.0	3455.2	3348.4	3252.8	3157.1	3075.1	2993.0	2914.0
12.5°	3894.5	3772.8	3651.4	3530.3	3409.3	3296.5	3183.7	3090.9	2998.1	2915.1
15°	3962.0	3835.3	3708.5	3577.2	3445.9	3316.0	3186.1	3078.7	2971.3	2879.4
17.5°	4000.0	3871.5	3742.9	3599.7	3456.4	3305.6	3154.9	3025.7	2896.5	2788.4
20°	4041.9	3908.3	3774.6	3617.2	3459.7	3277.0	3094.3	2934.2	2774.1	2648.2
22.5°	4090.4	3954.0	3817.4	3640.9	3464.2	3242.0	3019.8	2826.9	2634.0	2490.8
25°	4153.0	4019.2	3885.5	3683.7	3481.8	3207.4	2933.0	2707.1	2481.3	2334.4
27.5°	4237.8	4110.3	3982.7	3750.7	3518.7	3184.2	2849.8	2597.5	2345.3	2211.6
30°	4352.3	4229.0	4105.8	3837.5	3569.2	3173.4	2777.4	2506.0	2234.5	2122.3
32.5°	4487.4	4365.4	4243.4	3928.1	3612.7	3160.0	2707.1	2427.0	2146.8	2056.4
35°	4651.6	4534.8	4417.8	4031.3	3644.7	3134.8	2625.1	2349.4	2073.7	1998.3
37.5°	4928.0	4779.0	4630.0	4146.8	3663.6	3091.6	2519.5	2258.1	1996.6	1930.8
40°	5345.6	5128.5	4911.4	4293.6	3675.6	3032.0	2388.6	2149.1	1909.5	1849.8
42.5°	5899.5	5586.1	5272.8	4485.5	3698.3	2970.6	2243.2	2028.8	1814.4	1759.3
45°	6583.4	6160.8	5738.1	4738.1	3738.1	2913.6	2089.1	1901.1	1713.0	1657.2
47.5°	7438.8	6844.0	6249.0	5007.2	3765.5	2866.4	1967.4	1800.0	1632.6	1560.6
50°	8560.0	7663.2	6766.2	5256.9	3747.6	2815.1	1882.5	1732.9	1583.2	1488.5
52.5°	9847.0	8523.7	7200.4	5419.1	3637.6	2728.3	1819.1	1688.7	1558.3	1449.5
55°	11217.2	9286.6	7356.2	5383.3	3410.4	2584.5	1758.6	1656.6	1554.7	1453.4
57.5°	12463.4	9827.3	7191.3	5131.9	3072.6	2381.7	1690.7	1618.6	1546.6	1457.3
60°	13216.6	9962.4	6708.2	4663.9	2619.5	2118.4	1617.2	1560.6	1504.0	1445.0
62.5°	12834.1	9393.5	5952.9	4031.0	2109.2	1803.2	1497.3	1459.6	1422.1	1414.8
65°	12068.6	8588.5	5108.3	3385.4	1662.5	1519.7	1376.9	1359.1	1341.4	1342.3
67.5°	11042.9	7630.5	4218.0	2752.9	1287.8	1247.2	1206.6	1216.5	1226.3	1223.9
70°	9810.7	6585.1	3359.6	2167.5	975.4	987.0	998.5	1044.6	1090.4	1090.4
72.5°	8342.2	5451.9	2561.7	1657.1	752.4	787.4	822.4	887.7	952.8	963.7
75°	6484.6	4152.9	1821.1	1202.7	584.3	616.0	647.7	720.7	793.7	844.2
77.5°	4633.1	2906.6	1180.1	815.0	449.8	471.4	493.0	563.9	634.8	718.0
80°	3032.4	1872.7	713.0	525.1	337.2	346.2	355.1	415.2	475.2	574.5
82.5°	1762.7	1083.9	405.1	322.9	241.0	242.5	244.3	288.6	332.8	417.6
85°	775.5	487.5	199.7	172.6	145.7	144.9	144.1	176.4	208.8	271.9
87.5°	240.1	159.7	79.3	71.6	63.9	63.1	62.3	75.5	88.8	115.0
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):**

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2879.7	2.5°	2858.3	2837.0	2817.6	2798.4	2781.6	2764.7	2747.7	2730.9	2717.8	2704.6
2854.3	5°	2813.8	2773.3	2739.4	2705.5	2675.6	2645.7	2618.5	2591.3	2570.4	2549.4
2845.1	7.5°	2791.3	2737.6	2692.9	2648.2	2610.6	2572.9	2539.6	2506.4	2481.5	2456.7
2849.6	10°	2792.8	2736.1	2691.4	2646.8	2606.2	2565.6	2528.2	2490.8	2461.1	2431.3
2855.2	12.5°	2808.7	2762.5	2732.8	2703.3	2671.3	2639.6	2600.9	2562.2	2524.3	2486.3
2831.4	15°	2809.1	2787.0	2791.1	2795.1	2786.8	2778.5	2744.9	2711.3	2657.3	2603.2
2758.8	17.5°	2766.9	2775.0	2823.7	2872.4	2898.3	2924.1	2896.9	2869.9	2798.3	2726.7
2640.4	20°	2678.4	2716.3	2800.9	2885.5	2939.7	2993.8	2981.3	2968.7	2886.9	2805.1
2506.1	22.5°	2562.2	2618.4	2714.9	2811.6	2882.1	2952.5	2960.1	2967.6	2889.4	2811.3
2375.8	25°	2440.5	2505.3	2592.1	2678.9	2748.3	2817.6	2843.5	2869.3	2805.2	2741.3
2261.9	27.5°	2324.4	2386.9	2458.3	2529.5	2585.1	2640.7	2669.6	2698.5	2652.8	2607.2
2161.7	30°	2211.3	2261.1	2320.3	2379.4	2425.6	2471.8	2495.2	2518.7	2484.0	2449.1
2073.9	32.5°	2103.3	2132.7	2179.9	2227.2	2271.5	2315.8	2341.8	2367.9	2336.0	2304.0
1991.1	35°	1999.1	2007.3	2043.3	2079.3	2123.1	2166.9	2198.2	2229.5	2206.7	2184.0
1904.2	37.5°	1895.2	1886.3	1912.2	1938.0	1981.7	2025.5	2064.1	2102.7	2092.2	2081.7
1809.0	40°	1788.8	1768.6	1787.3	1805.9	1848.1	1890.3	1934.8	1979.3	1981.9	1984.4
1708.0	42.5°	1681.2	1654.4	1669.6	1684.9	1724.8	1764.9	1812.9	1861.0	1873.8	1886.6
1607.5	45°	1581.3	1555.3	1568.1	1581.0	1619.0	1656.9	1706.7	1756.6	1775.0	1793.4
1517.8	47.5°	1495.9	1474.0	1486.1	1498.0	1535.2	1572.3	1621.4	1670.6	1691.8	1713.0
1438.9	50°	1419.4	1400.1	1418.9	1437.7	1472.8	1507.8	1551.8	1595.8	1623.0	1650.2
1380.0	52.5°	1360.8	1341.7	1370.0	1398.1	1430.3	1462.3	1503.3	1544.4	1576.7	1608.9
1348.7	55°	1318.4	1288.1	1328.2	1368.2	1402.8	1437.4	1473.4	1509.2	1543.4	1577.7
1330.0	57.5°	1285.8	1241.5	1284.6	1327.7	1368.4	1409.0	1444.6	1480.2	1514.7	1549.1
1312.3	60°	1255.0	1197.7	1235.5	1273.3	1319.9	1366.6	1402.7	1438.9	1473.5	1508.1
1291.8	62.5°	1220.1	1148.5	1172.5	1196.5	1250.9	1305.4	1343.9	1382.5	1414.2	1445.9
1248.5	65°	1172.3	1096.0	1105.3	1114.5	1172.7	1231.2	1268.0	1304.9	1332.8	1360.7
1171.2	67.5°	1107.8	1044.3	1041.4	1038.5	1092.3	1146.3	1181.2	1216.1	1240.2	1264.3
1073.1	70°	1028.0	982.9	972.9	962.8	1010.2	1057.5	1087.7	1117.8	1139.6	1161.4
963.9	72.5°	933.0	902.1	887.3	872.7	910.0	947.2	974.4	1001.7	1023.0	1044.3
840.0	75°	816.2	792.3	778.2	764.0	791.7	819.4	844.1	868.8	888.2	907.6
715.8	77.5°	696.7	677.6	663.3	649.0	671.6	694.0	715.2	736.5	756.9	777.2
574.2	80°	558.2	542.2	530.2	518.1	536.9	555.6	573.4	591.3	606.8	622.2
422.3	82.5°	414.5	406.7	398.2	389.7	388.2	386.6	380.3	374.1	407.1	440.2
278.1	85°	269.7	261.3	251.8	242.3	234.3	226.1	208.8	191.5	222.4	253.5
122.8	87.5°	119.5	116.1	114.3	112.6	112.2	111.9	98.7	85.4	98.4	111.4
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):**

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2694.0	2.5°	2683.4	2675.1	2666.9	2659.3	2651.6	2642.1	2651.6	2659.3	2666.9	2675.1
2534.8	5°	2520.1	2509.8	2499.4	2491.4	2483.5	2475.7	2483.5	2491.4	2499.4	2509.8
2439.3	7.5°	2421.9	2409.9	2398.1	2390.9	2383.9	2378.6	2383.9	2390.9	2398.1	2409.9
2411.8	10°	2392.2	2380.9	2369.6	2363.6	2357.6	2355.1	2357.6	2363.6	2369.6	2380.9
2461.2	12.5°	2436.1	2423.4	2410.9	2405.8	2400.7	2399.8	2400.7	2405.8	2410.9	2423.4
2565.0	15°	2526.8	2509.3	2491.9	2485.2	2478.5	2477.9	2478.5	2485.2	2491.9	2509.3
2670.5	17.5°	2614.2	2588.3	2562.2	2553.8	2545.2	2543.8	2545.2	2553.8	2562.2	2588.3
2736.1	20°	2667.2	2634.0	2600.8	2590.2	2579.6	2576.2	2579.6	2590.2	2600.8	2634.0
2740.2	22.5°	2669.1	2634.2	2599.1	2587.4	2575.6	2570.6	2575.6	2587.4	2599.1	2634.2
2678.0	25°	2615.1	2584.7	2554.4	2543.4	2532.4	2526.0	2532.4	2543.4	2554.4	2584.7
2558.2	27.5°	2509.2	2488.9	2468.4	2463.4	2458.4	2456.7	2458.4	2463.4	2468.4	2488.9
2414.1	30°	2378.8	2368.4	2357.9	2357.9	2357.9	2359.6	2357.9	2357.9	2357.9	2368.4
2275.9	32.5°	2247.9	2241.1	2234.3	2235.2	2236.2	2237.8	2236.2	2235.2	2234.3	2241.1
2158.1	35°	2132.3	2121.9	2111.7	2109.4	2107.2	2106.1	2107.2	2109.4	2111.7	2121.9
2057.9	37.5°	2034.1	2015.2	1996.4	1986.5	1976.5	1971.0	1976.5	1986.5	1996.4	2015.2
1964.1	40°	1943.9	1916.5	1889.2	1870.7	1852.4	1841.4	1852.4	1870.7	1889.2	1916.5
1869.6	42.5°	1852.6	1818.5	1784.5	1757.6	1730.6	1713.0	1730.6	1757.6	1784.5	1818.5
1778.0	45°	1762.7	1723.7	1684.9	1653.3	1621.7	1601.3	1621.7	1653.3	1684.9	1723.7
1702.3	47.5°	1691.6	1656.9	1622.3	1593.1	1563.9	1544.4	1563.9	1593.1	1622.3	1656.9
1649.6	50°	1649.1	1621.4	1593.7	1566.7	1539.7	1520.9	1539.7	1566.7	1593.7	1621.4
1614.7	52.5°	1620.5	1598.0	1575.4	1551.2	1527.1	1509.8	1527.1	1551.2	1575.4	1598.0
1585.7	55°	1593.7	1574.1	1554.4	1533.2	1512.0	1496.4	1512.0	1533.2	1554.4	1574.1
1557.2	57.5°	1565.4	1545.5	1525.6	1504.6	1483.5	1467.3	1483.5	1504.6	1525.6	1545.5
1517.0	60°	1526.0	1506.5	1487.2	1465.5	1443.9	1427.1	1443.9	1465.5	1487.2	1506.5
1454.5	62.5°	1463.1	1445.6	1428.0	1405.2	1382.5	1362.4	1382.5	1405.2	1428.0	1445.6
1369.5	65°	1378.2	1361.4	1344.5	1322.4	1300.4	1283.1	1300.4	1322.4	1344.5	1361.4
1272.9	67.5°	1281.4	1265.9	1250.5	1229.9	1209.4	1193.7	1209.4	1229.9	1250.5	1265.9
1169.6	70°	1177.9	1165.3	1152.6	1133.0	1113.3	1095.5	1113.3	1133.0	1152.6	1165.3
1054.2	72.5°	1064.0	1053.5	1043.0	1024.2	1005.6	988.3	1005.6	1024.2	1043.0	1053.5
917.9	75°	928.2	923.1	917.9	902.2	886.4	869.9	886.4	902.2	917.9	923.1
786.8	77.5°	796.4	789.3	781.9	766.0	750.2	737.0	750.2	766.0	781.9	789.3
635.0	80°	647.7	644.6	641.5	620.2	598.8	574.0	598.8	620.2	641.5	644.6
461.9	82.5°	483.5	482.2	480.7	462.8	444.7	428.8	444.7	462.8	480.7	482.2
280.3	85°	307.1	304.9	302.6	288.6	274.5	260.2	274.5	288.6	302.6	304.9
122.3	87.5°	133.1	130.4	127.5	120.4	113.0	106.1	113.0	120.4	127.5	130.4
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):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2683.4	2.5°	2694.0	2704.6	2717.8	2730.9	2747.7	2764.7	2781.6	2798.4	2817.6	2837.0
2520.1	5°	2534.8	2549.4	2570.4	2591.3	2618.5	2645.7	2675.6	2705.5	2739.4	2773.3
2421.9	7.5°	2439.3	2456.7	2481.5	2506.4	2539.6	2572.9	2610.6	2648.2	2692.9	2737.6
2392.2	10°	2411.8	2431.3	2461.1	2490.8	2528.2	2565.6	2606.2	2646.8	2691.4	2736.1
2436.1	12.5°	2461.2	2486.3	2524.3	2562.2	2600.9	2639.6	2671.3	2703.3	2732.8	2762.5
2526.8	15°	2565.0	2603.2	2657.3	2711.3	2744.9	2778.5	2786.8	2795.1	2791.1	2787.0
2614.2	17.5°	2670.5	2726.7	2798.3	2869.9	2896.9	2924.1	2898.3	2872.4	2823.7	2775.0
2667.2	20°	2736.1	2805.1	2886.9	2968.7	2981.3	2993.8	2939.7	2885.5	2800.9	2716.3
2669.1	22.5°	2740.2	2811.3	2889.4	2967.6	2960.1	2952.5	2882.1	2811.6	2714.9	2618.4
2615.1	25°	2678.0	2741.3	2805.2	2869.3	2843.5	2817.6	2748.3	2678.9	2592.1	2505.3
2509.2	27.5°	2558.2	2607.2	2652.8	2698.5	2669.6	2640.7	2585.1	2529.5	2458.3	2386.9
2378.8	30°	2414.1	2449.1	2484.0	2518.7	2495.2	2471.8	2425.6	2379.4	2320.3	2261.1
2247.9	32.5°	2275.9	2304.0	2336.0	2367.9	2341.8	2315.8	2271.5	2227.2	2179.9	2132.7
2132.3	35°	2158.1	2184.0	2206.7	2229.5	2198.2	2166.9	2123.1	2079.3	2043.3	2007.3
2034.1	37.5°	2057.9	2081.7	2092.2	2102.7	2064.1	2025.5	1981.7	1938.0	1912.2	1886.3
1943.9	40°	1964.1	1984.4	1981.9	1979.3	1934.8	1890.3	1848.1	1805.9	1787.3	1768.6
1852.6	42.5°	1869.6	1886.6	1873.8	1861.0	1812.9	1764.9	1724.8	1684.9	1669.6	1654.4
1762.7	45°	1778.0	1793.4	1775.0	1756.6	1706.7	1656.9	1619.0	1581.0	1568.1	1555.3
1691.6	47.5°	1702.3	1713.0	1691.8	1670.6	1621.4	1572.3	1535.2	1498.0	1486.1	1474.0
1649.1	50°	1649.6	1650.2	1623.0	1595.8	1551.8	1507.8	1472.8	1437.7	1418.9	1400.1
1620.5	52.5°	1614.7	1608.9	1576.7	1544.4	1503.3	1462.3	1430.3	1398.1	1370.0	1341.7
1593.7	55°	1585.7	1577.7	1543.4	1509.2	1473.4	1437.4	1402.8	1368.2	1328.2	1288.1
1565.4	57.5°	1557.2	1549.1	1514.7	1480.2	1444.6	1409.0	1368.4	1327.7	1284.6	1241.5
1526.0	60°	1517.0	1508.1	1473.5	1438.9	1402.7	1366.6	1319.9	1273.3	1235.5	1197.7
1463.1	62.5°	1454.5	1445.9	1414.2	1382.5	1343.9	1305.4	1250.9	1196.5	1172.5	1148.5
1378.2	65°	1369.5	1360.7	1332.8	1304.9	1268.0	1231.2	1172.7	1114.5	1105.3	1096.0
1281.4	67.5°	1272.9	1264.3	1240.2	1216.1	1181.2	1146.3	1092.3	1038.5	1041.4	1044.3
1177.9	70°	1169.6	1161.4	1139.6	1117.8	1087.7	1057.5	1010.2	962.8	972.9	982.9
1064.0	72.5°	1054.2	1044.3	1023.0	1001.7	974.4	947.2	910.0	872.7	887.3	902.1
928.2	75°	917.9	907.6	888.2	868.8	844.1	819.4	791.7	764.0	778.2	792.3
796.4	77.5°	786.8	777.2	756.9	736.5	715.2	694.0	671.6	649.0	663.3	677.6
647.7	80°	635.0	622.2	606.8	591.3	573.4	555.6	536.9	518.1	530.2	542.2
483.5	82.5°	461.9	440.2	407.1	374.1	380.3	386.6	388.2	389.7	398.2	406.7
307.1	85°	280.3	253.5	222.4	191.5	208.8	226.1	234.3	242.3	251.8	261.3
133.1	87.5°	122.3	111.4	98.4	85.4	98.7	111.9	112.2	112.6	114.3	116.1
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°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2858.3	2.5°	2879.7	2906.2	2930.0	2954.5	2979.1	3004.8	3030.5	3055.9	3081.5	3105.5
2813.8	5°	2854.3	2900.6	2947.5	2997.2	3046.9	3100.0	3153.3	3206.1	3259.1	3312.1
2791.3	7.5°	2845.1	2905.1	2969.1	3038.4	3107.7	3186.5	3265.2	3346.1	3426.9	3514.3
2792.8	10°	2849.6	2914.0	2993.0	3075.1	3157.1	3252.8	3348.4	3455.2	3562.0	3672.7
2808.7	12.5°	2855.2	2915.1	2998.1	3090.9	3183.7	3296.5	3409.3	3530.3	3651.4	3772.8
2809.1	15°	2831.4	2879.4	2971.3	3078.7	3186.1	3316.0	3445.9	3577.2	3708.5	3835.3
2766.9	17.5°	2758.8	2788.4	2896.5	3025.7	3154.9	3305.6	3456.4	3599.7	3742.9	3871.5
2678.4	20°	2640.4	2648.2	2774.1	2934.2	3094.3	3277.0	3459.7	3617.2	3774.6	3908.3
2562.2	22.5°	2506.1	2490.8	2634.0	2826.9	3019.8	3242.0	3464.2	3640.9	3817.4	3954.0
2440.5	25°	2375.8	2334.4	2481.3	2707.1	2933.0	3207.4	3481.8	3683.7	3885.5	4019.2
2324.4	27.5°	2261.9	2211.6	2345.3	2597.5	2849.8	3184.2	3518.7	3750.7	3982.7	4110.3
2211.3	30°	2161.7	2122.3	2234.5	2506.0	2777.4	3173.4	3569.2	3837.5	4105.8	4229.0
2103.3	32.5°	2073.9	2056.4	2146.8	2427.0	2707.1	3160.0	3612.7	3928.1	4243.4	4365.4
1999.1	35°	1991.1	1998.3	2073.7	2349.4	2625.1	3134.8	3644.7	4031.3	4417.8	4534.8
1895.2	37.5°	1904.2	1930.8	1996.6	2258.1	2519.5	3091.6	3663.6	4146.8	4630.0	4779.0
1788.8	40°	1809.0	1849.8	1909.5	2149.1	2388.6	3032.0	3675.6	4293.6	4911.4	5128.5
1681.2	42.5°	1708.0	1759.3	1814.4	2028.8	2243.2	2970.6	3698.3	4485.5	5272.8	5586.1
1581.3	45°	1607.5	1657.2	1713.0	1901.1	2089.1	2913.6	3738.1	4738.1	5738.1	6160.8
1495.9	47.5°	1517.8	1560.6	1632.6	1800.0	1967.4	2866.4	3765.5	5007.2	6249.0	6844.0
1419.4	50°	1438.9	1488.5	1583.2	1732.9	1882.5	2815.1	3747.6	5256.9	6766.2	7663.2
1360.8	52.5°	1380.0	1449.5	1558.3	1688.7	1819.1	2728.3	3637.6	5419.1	7200.4	8523.7
1318.4	55°	1348.7	1453.4	1554.7	1656.6	1758.6	2584.5	3410.4	5383.3	7356.2	9286.6
1285.8	57.5°	1330.0	1457.3	1546.6	1618.6	1690.7	2381.7	3072.6	5131.9	7191.3	9827.3
1255.0	60°	1312.3	1445.0	1504.0	1560.6	1617.2	2118.4	2619.5	4663.9	6708.2	9962.4
1220.1	62.5°	1291.8	1414.8	1422.1	1459.6	1497.3	1803.2	2109.2	4031.0	5952.9	9393.5
1172.3	65°	1248.5	1342.3	1341.4	1359.1	1376.9	1519.7	1662.5	3385.4	5108.3	8588.5
1107.8	67.5°	1171.2	1223.9	1226.3	1216.5	1206.6	1247.2	1287.8	2752.9	4218.0	7630.5
1028.0	70°	1073.1	1090.4	1090.4	1044.6	998.5	987.0	975.4	2167.5	3359.6	6585.1
933.0	72.5°	963.9	963.7	952.8	887.7	822.4	787.4	752.4	1657.1	2561.7	5451.9
816.2	75°	840.0	844.2	793.7	720.7	647.7	616.0	584.3	1202.7	1821.1	4152.9
696.7	77.5°	715.8	718.0	634.8	563.9	493.0	471.4	449.8	815.0	1180.1	2906.6
558.2	80°	574.2	574.5	475.2	415.2	355.1	346.2	337.2	525.1	713.0	1872.7
414.5	82.5°	422.3	417.6	332.8	288.6	244.3	242.5	241.0	322.9	405.1	1083.9
269.7	85°	278.1	271.9	208.8	176.4	144.1	144.9	145.7	172.6	199.7	487.5
119.5	87.5°	122.8	115.0	88.8	75.5	62.3	63.1	63.9	71.6	79.3	159.7
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°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
3129.5	2.5°	3141.4	3153.3	3170.2	3187.0	3197.1	3207.1	3212.2	3217.2	3215.0	3217.2
3365.1	5°	3406.6	3448.1	3489.2	3530.4	3552.7	3575.1	3588.6	3602.2	3612.5	3602.2
3601.9	7.5°	3669.3	3736.7	3797.3	3857.9	3894.5	3931.0	3950.7	3970.4	3979.9	3970.4
3783.3	10°	3863.1	3942.8	4013.9	4085.1	4128.2	4171.1	4190.3	4209.4	4216.6	4209.4
3894.5	12.5°	3980.9	4067.2	4131.5	4195.6	4226.9	4258.2	4268.7	4279.2	4280.3	4279.2
3962.0	15°	4036.6	4111.1	4151.4	4191.8	4192.9	4194.1	4182.9	4171.7	4158.6	4171.7
4000.0	17.5°	4050.3	4100.7	4101.5	4102.2	4056.9	4011.7	3970.3	3928.7	3899.5	3928.7
4041.9	20°	4059.4	4077.0	4024.0	3971.0	3871.1	3771.3	3698.6	3625.9	3581.2	3625.9
4090.4	22.5°	4067.4	4044.4	3934.5	3824.7	3677.8	3531.0	3440.1	3349.2	3299.8	3349.2
4153.0	25°	4080.4	4007.8	3841.0	3674.1	3495.8	3317.5	3221.9	3126.5	3079.8	3126.5
4237.8	27.5°	4108.1	3978.2	3757.2	3536.3	3338.7	3141.0	3047.0	2953.1	2909.0	2953.1
4352.3	30°	4158.8	3965.4	3693.3	3421.3	3215.4	3009.5	2922.3	2835.1	2794.0	2835.1
4487.4	32.5°	4222.4	3957.6	3649.8	3342.0	3148.5	2955.0	2886.5	2818.0	2788.4	2818.0
4651.6	35°	4327.3	4003.1	3682.4	3361.8	3227.3	3093.0	3077.0	3061.1	3058.6	3061.1
4928.0	37.5°	4546.5	4165.0	3873.6	3582.1	3573.4	3564.7	3637.7	3710.8	3748.7	3710.8
5345.6	40°	4930.7	4515.9	4299.1	4082.4	4235.4	4388.4	4565.9	4743.5	4831.9	4743.5
5899.5	42.5°	5487.9	5076.3	4951.4	4826.6	5160.2	5493.9	5816.8	6139.8	6329.4	6139.8
6583.4	45°	6213.7	5843.9	5788.8	5733.6	6268.2	6802.9	7333.5	7864.3	8186.5	7864.3
7438.8	47.5°	7079.1	6719.3	6708.2	6697.0	7468.2	8239.2	9016.0	9792.8	10249.0	9792.8
8560.0	50°	8115.7	7671.4	7673.3	7675.2	8669.1	9662.9	10688.4	11713.9	12333.8	11713.9
9847.0	52.5°	9309.0	8771.0	8716.7	8662.2	9849.3	11036.5	12305.3	13573.9	14317.1	13573.9
11217.2	55°	10685.6	10154.1	9942.0	9729.9	11051.2	12372.4	13884.9	15397.5	16281.3	15397.5
12463.4	57.5°	12173.9	11884.4	11459.0	11033.8	12367.9	13702.0	15415.2	17128.4	18224.4	17128.4
13216.6	60°	13666.2	14115.9	13587.7	13059.5	14322.0	15584.5	17418.8	19253.1	20437.7	19253.1
12834.1	62.5°	14062.6	15291.1	15231.5	15171.9	16328.5	17485.1	19230.3	20975.4	22070.3	20975.4
12068.6	65°	13221.6	14374.6	14602.7	14830.8	16300.6	17770.5	19462.7	21154.8	22087.0	21154.8
11042.9	67.5°	12139.5	13236.1	13343.1	13450.0	14981.4	16512.7	18212.2	19911.7	20642.0	19911.7
9810.7	70°	11003.4	12196.3	12244.1	12292.0	13661.5	15030.9	16493.4	17955.8	18361.7	17955.8
8342.2	72.5°	9711.0	11079.8	11114.2	11148.5	12219.9	13291.4	14386.8	15482.0	15523.1	15482.0
6484.6	75°	7901.3	9317.9	9445.1	9572.3	10405.9	11239.5	12010.6	12781.6	12575.0	12781.6
4633.1	77.5°	5955.5	7278.0	7460.0	7642.1	8275.8	8909.5	9456.4	10003.3	9648.2	10003.3
3032.4	80°	4144.9	5257.4	5483.6	5709.9	6188.5	6666.9	6954.1	7241.2	6670.0	7241.2
1762.7	82.5°	2523.3	3284.0	3536.7	3789.5	4118.9	4448.3	4568.2	4687.9	4239.0	4687.9
775.5	85°	1179.2	1582.9	1797.9	2012.8	2283.5	2554.1	2622.1	2690.1	2330.5	2690.1
240.1	87.5°	375.8	511.4	631.4	751.3	886.7	1022.0	1027.8	1033.5	867.7	1033.5
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):**

325°		330°	335°	340°	345°	350°	355°	360°
2910.1	0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
3212.2	2.5°	3207.1	3197.1	3187.0	3170.2	3153.3	3141.4	3129.5
3588.6	5°	3575.1	3552.7	3530.4	3489.2	3448.1	3406.6	3365.1
3950.7	7.5°	3931.0	3894.5	3857.9	3797.3	3736.7	3669.3	3601.9
4190.3	10°	4171.1	4128.2	4085.1	4013.9	3942.8	3863.1	3783.3
4268.7	12.5°	4258.2	4226.9	4195.6	4131.5	4067.2	3980.9	3894.5
4182.9	15°	4194.1	4192.9	4191.8	4151.4	4111.1	4036.6	3962.0
3970.3	17.5°	4011.7	4056.9	4102.2	4101.5	4100.7	4050.3	4000.0
3698.6	20°	3771.3	3871.1	3971.0	4024.0	4077.0	4059.4	4041.9
3440.1	22.5°	3531.0	3677.8	3824.7	3934.5	4044.4	4067.4	4090.4
3221.9	25°	3317.5	3495.8	3674.1	3841.0	4007.8	4080.4	4153.0
3047.0	27.5°	3141.0	3338.7	3536.3	3757.2	3978.2	4108.1	4237.8
2922.3	30°	3009.5	3215.4	3421.3	3693.3	3965.4	4158.8	4352.3
2886.5	32.5°	2955.0	3148.5	3342.0	3649.8	3957.6	4222.4	4487.4
3077.0	35°	3093.0	3227.3	3361.8	3682.4	4003.1	4327.3	4651.6
3637.7	37.5°	3564.7	3573.4	3582.1	3873.6	4165.0	4546.5	4928.0
4565.9	40°	4388.4	4235.4	4082.4	4299.1	4515.9	4930.7	5345.6
5816.8	42.5°	5493.9	5160.2	4826.6	4951.4	5076.3	5487.9	5899.5
7333.5	45°	6802.9	6268.2	5733.6	5788.8	5843.9	6213.7	6583.4
9016.0	47.5°	8239.2	7468.2	6697.0	6708.2	6719.3	7079.1	7438.8
10688.4	50°	9662.9	8669.1	7675.2	7673.3	7671.4	8115.7	8560.0
12305.3	52.5°	11036.5	9849.3	8662.2	8716.7	8771.0	9309.0	9847.0
13884.9	55°	12372.4	11051.2	9729.9	9942.0	10154.1	10685.6	11217.2
15415.2	57.5°	13702.0	12367.9	11033.8	11459.0	11884.4	12173.9	12463.4
17418.8	60°	15584.5	14322.0	13059.5	13587.7	14115.9	13666.2	13216.6
19230.3	62.5°	17485.1	16328.5	15171.9	15231.5	15291.1	14062.6	12834.1
19462.7	65°	17770.5	16300.6	14830.8	14602.7	14374.6	13221.6	12068.6
18212.2	67.5°	16512.7	14981.4	13450.0	13343.1	13236.1	12139.5	11042.9
16493.4	70°	15030.9	13661.5	12292.0	12244.1	12196.3	11003.4	9810.7
14386.8	72.5°	13291.4	12219.9	11148.5	11114.2	11079.8	9711.0	8342.2
12010.6	75°	11239.5	10405.9	9572.3	9445.1	9317.9	7901.3	6484.6
9456.4	77.5°	8909.5	8275.8	7642.1	7460.0	7278.0	5955.5	4633.1
6954.1	80°	6666.9	6188.5	5709.9	5483.6	5257.4	4144.9	3032.4
4568.2	82.5°	4448.3	4118.9	3789.5	3536.7	3284.0	2523.3	1762.7
2622.1	85°	2554.1	2283.5	2012.8	1797.9	1582.9	1179.2	775.5
1027.8	87.5°	1022.0	886.7	751.3	631.4	511.4	375.8	240.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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