

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: P950764

Luminaire Tested: **GALN-SB5A-840-U-SLR**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950764  
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-SB5A-840-U-SLR  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

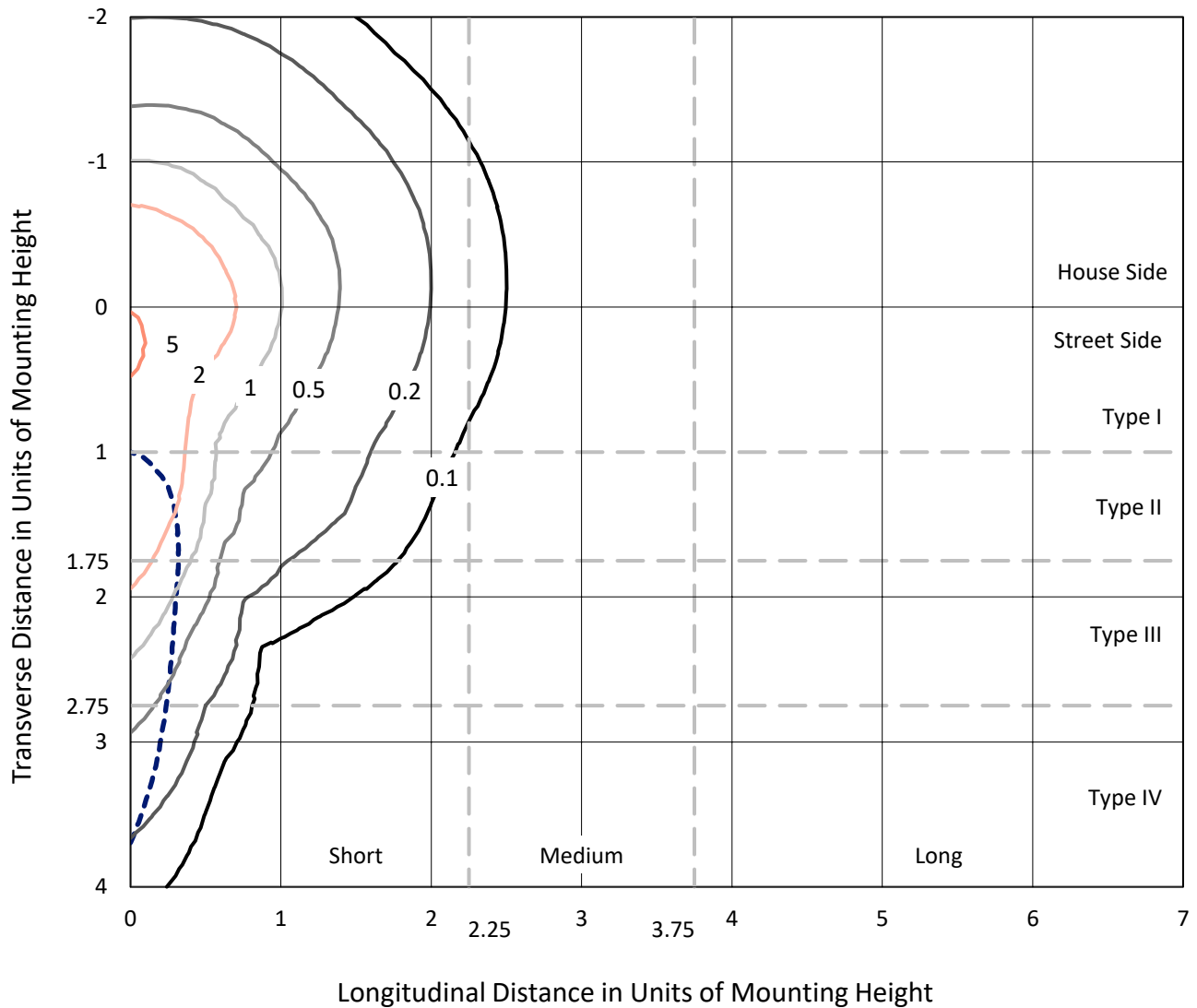
Lumens per Lamp: N/A  
Luminaire Lumens: 21597 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

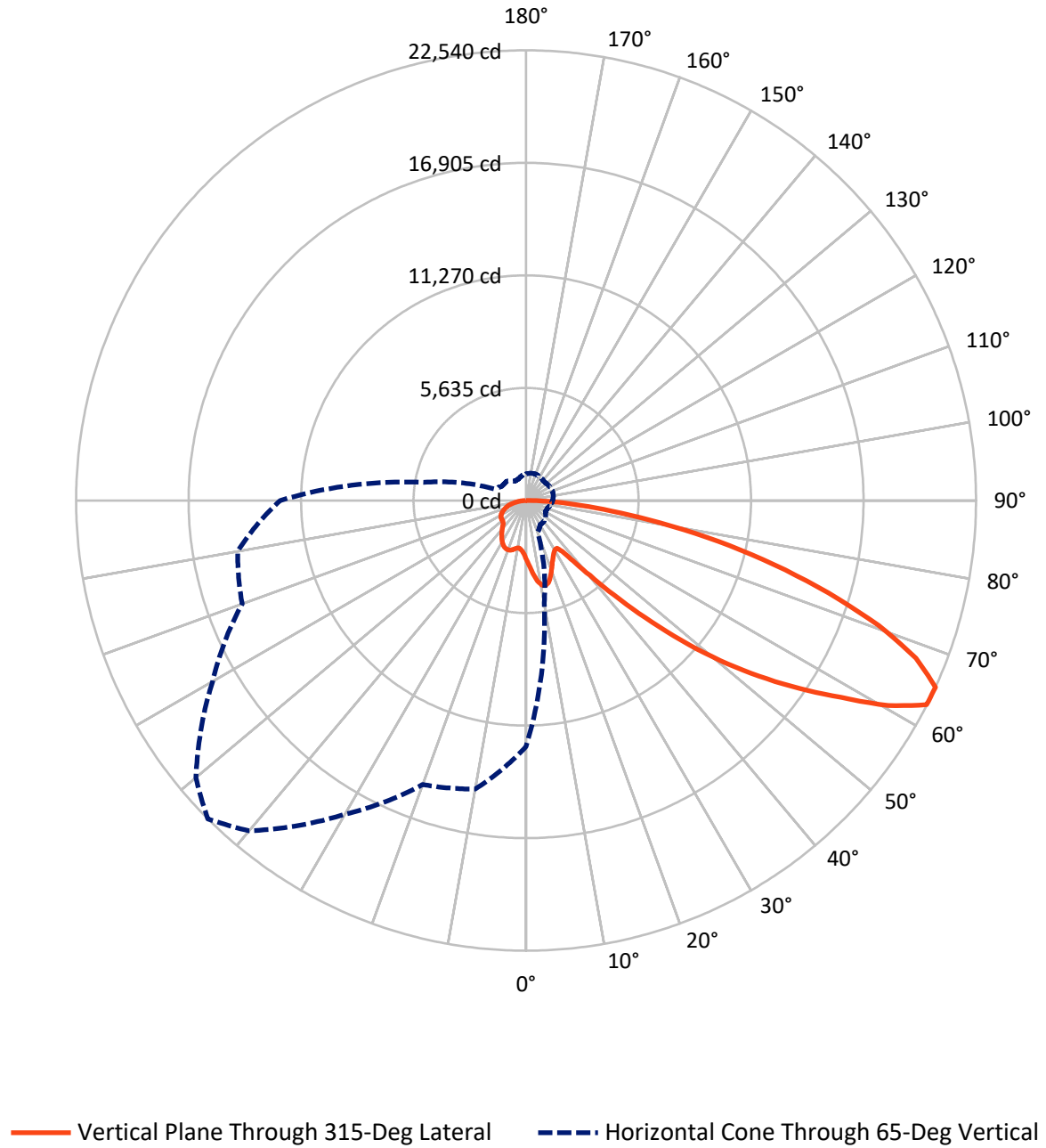
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	5488.9	0.0	5488.9
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	16108.1	0.0	16108.1
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	21597.0	0.0	21597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.6	1.4
10°-20°	924.8	4.3
20°-30°	1428.5	6.6
30°-40°	1810.3	8.4
40°-50°	2730.4	12.6
50°-60°	4411.3	20.4
60°-70°	5499.4	25.5
70°-80°	3606.2	16.7
80°-90°	891.5	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°	21597.0	100.0
0°-180°	21597.0	100.0

**Coefficient of Utilization**



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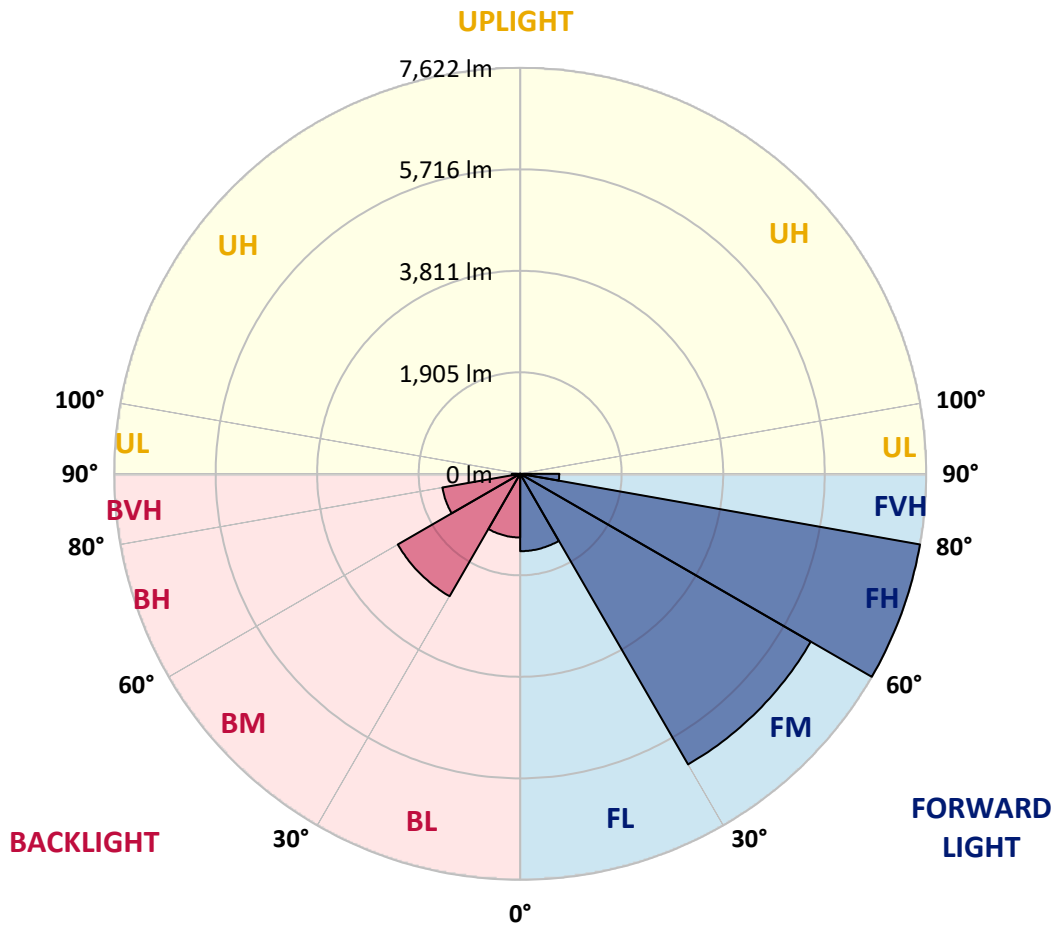
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.6	6.7			
FM (30°-60°)	6299.4	29.2			
FH (60°-80°)	7621.7	35.3			G4/12000
FVH (80°-90°)	734.4	3.4			G4/750
BL (0°-30°)	1195.3	5.5	B3/2500		
BM (30°-60°)	2652.6	12.3	B3/5000		
BH (60°-80°)	1483.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	157.1	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°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
2.5°	3193.7	3169.2	3144.7	3118.6	3092.6	3066.4	3040.2	3015.1	2990.1	2965.8
5°	3434.2	3380.0	3325.9	3271.9	3218.0	3163.6	3109.4	3058.7	3007.9	2960.1
7.5°	3675.7	3586.4	3497.2	3414.7	3332.2	3251.8	3171.5	3100.7	3029.9	2964.6
10°	3860.9	3748.0	3635.1	3526.0	3417.1	3319.5	3221.9	3138.2	3054.3	2973.8
12.5°	3974.3	3850.2	3726.2	3602.7	3479.2	3364.1	3249.0	3154.3	3059.6	2974.9
15°	4043.3	3913.9	3784.6	3650.6	3516.5	3384.0	3251.5	3141.9	3032.2	2938.4
17.5°	4082.0	3950.8	3819.7	3673.5	3527.3	3373.4	3219.6	3087.7	2955.9	2845.6
20°	4124.7	3988.5	3852.0	3691.4	3530.7	3344.2	3157.8	2994.4	2831.0	2702.5
22.5°	4174.3	4035.1	3895.7	3715.5	3535.2	3308.5	3081.7	2884.9	2688.1	2541.9
25°	4238.1	4101.6	3965.2	3759.3	3553.2	3273.1	2993.1	2762.6	2532.2	2382.3
27.5°	4324.7	4194.6	4064.4	3827.7	3590.9	3249.5	2908.2	2650.8	2393.4	2257.0
30°	4441.6	4315.7	4190.0	3916.2	3642.4	3238.5	2834.4	2557.4	2280.3	2165.8
32.5°	4579.4	4454.9	4330.4	4008.6	3686.8	3224.8	2762.6	2476.8	2190.9	2098.6
35°	4747.0	4627.8	4508.4	4113.9	3719.4	3199.1	2678.9	2397.6	2116.2	2039.3
37.5°	5029.0	4877.0	4725.0	4231.9	3738.8	3155.0	2571.1	2304.4	2037.6	1970.4
40°	5455.2	5233.7	5012.1	4381.6	3751.0	3094.2	2437.6	2193.1	1948.7	1887.7
42.5°	6020.5	5700.7	5380.9	4577.5	3774.1	3031.5	2289.2	2070.4	1851.6	1795.4
45°	6718.5	6287.1	5855.8	4835.3	3814.8	2973.3	2131.9	1940.0	1748.1	1691.2
47.5°	7591.4	6984.3	6377.1	5109.9	3842.7	2925.2	2007.7	1836.9	1666.1	1592.6
50°	8735.5	7820.3	6905.0	5364.7	3824.5	2872.8	1921.1	1768.4	1615.7	1519.1
52.5°	10048.9	8698.5	7348.1	5530.2	3712.2	2784.2	1856.4	1723.3	1590.3	1479.2
55°	11447.2	9477.1	7507.1	5493.7	3480.3	2637.5	1794.6	1690.6	1586.5	1483.2
57.5°	12719.0	10028.9	7338.7	5237.1	3135.6	2430.5	1725.3	1651.8	1578.3	1487.2
60°	13487.6	10166.7	6845.7	4759.5	2673.3	2161.8	1650.4	1592.6	1534.8	1474.6
62.5°	13097.3	9586.1	6074.9	4113.7	2152.5	1840.2	1528.0	1489.6	1451.3	1443.9
65°	12316.1	8764.6	5213.1	3454.8	1696.6	1550.9	1405.1	1387.0	1368.9	1369.8
67.5°	11269.4	7786.9	4304.5	2809.3	1314.2	1272.8	1231.3	1241.5	1251.5	1249.0
70°	10011.9	6720.2	3428.5	2211.9	995.4	1007.3	1019.0	1066.0	1112.8	1112.8
72.5°	8513.3	5563.7	2614.2	1691.0	767.9	803.5	839.3	905.9	972.3	983.5
75°	6617.6	4238.0	1858.4	1227.3	596.2	628.6	661.0	735.5	810.0	861.5
77.5°	4728.2	2966.2	1204.3	831.7	459.0	481.0	503.1	575.5	647.9	732.8
80°	3094.6	1911.1	727.6	535.8	344.2	353.3	362.4	423.7	484.9	586.3
82.5°	1798.8	1106.1	413.4	329.6	245.9	247.5	249.3	294.5	339.6	426.2
85°	791.4	497.5	203.8	176.2	148.7	147.9	147.0	180.1	213.1	277.5
87.5°	245.0	163.0	80.9	73.0	65.2	64.4	63.6	77.0	90.6	117.4
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°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
2938.8	2.5°	2916.9	2895.1	2875.4	2855.8	2838.6	2821.4	2804.1	2786.9	2773.5	2760.1
2912.8	5°	2871.5	2830.2	2795.5	2761.0	2730.5	2699.9	2672.2	2644.4	2623.1	2601.7
2903.4	7.5°	2848.5	2793.7	2748.1	2702.5	2664.1	2625.6	2591.7	2557.8	2532.4	2507.1
2908.0	10°	2850.1	2792.2	2746.6	2701.1	2659.7	2618.2	2580.0	2541.9	2511.5	2481.1
2913.7	12.5°	2866.3	2819.1	2788.8	2758.7	2726.1	2693.8	2654.2	2614.8	2576.0	2537.3
2889.4	15°	2866.8	2844.2	2848.3	2852.4	2844.0	2835.5	2801.2	2766.9	2711.8	2656.6
2815.4	17.5°	2823.7	2831.9	2881.6	2931.3	2957.7	2984.0	2956.3	2928.7	2855.7	2782.7
2694.6	20°	2733.3	2772.1	2858.3	2944.7	3000.0	3055.2	3042.5	3029.6	2946.1	2862.7
2557.5	22.5°	2614.8	2672.1	2770.6	2869.3	2941.2	3013.1	3020.8	3028.5	2948.7	2868.9
2424.5	25°	2490.6	2556.7	2645.2	2733.9	2804.6	2875.4	2901.9	2928.2	2862.8	2797.5
2308.2	27.5°	2372.1	2435.9	2508.7	2581.4	2638.2	2694.9	2724.3	2753.8	2707.2	2660.7
2206.0	30°	2256.6	2307.4	2367.8	2428.2	2475.3	2522.5	2546.4	2570.3	2534.9	2499.4
2116.4	32.5°	2146.4	2176.4	2224.6	2272.9	2318.0	2363.3	2389.8	2416.5	2383.9	2351.2
2031.9	35°	2040.1	2048.4	2085.2	2121.9	2166.6	2211.4	2243.3	2275.2	2251.9	2228.8
1943.2	37.5°	1934.1	1925.0	1951.4	1977.8	2022.3	2067.0	2106.4	2145.8	2135.1	2124.4
1846.1	40°	1825.5	1804.9	1823.9	1842.9	1886.0	1929.1	1974.5	2019.9	2022.5	2025.1
1743.0	42.5°	1715.7	1688.3	1703.8	1719.4	1760.2	1801.1	1850.1	1899.1	1912.2	1925.3
1640.4	45°	1613.8	1587.2	1600.2	1613.4	1652.2	1690.9	1741.8	1792.6	1811.4	1830.2
1548.9	47.5°	1526.6	1504.3	1516.6	1528.8	1566.7	1604.5	1654.7	1704.8	1726.5	1748.1
1468.4	50°	1448.5	1428.8	1448.0	1467.2	1503.0	1538.7	1583.6	1628.5	1656.3	1684.1
1408.3	52.5°	1388.7	1369.2	1398.0	1426.8	1459.6	1492.3	1534.1	1576.1	1609.0	1641.9
1376.4	55°	1345.4	1314.5	1355.4	1396.2	1431.6	1466.9	1503.6	1540.2	1575.0	1610.0
1357.3	57.5°	1312.1	1267.0	1311.0	1355.0	1396.5	1437.9	1474.2	1510.5	1545.7	1580.8
1339.2	60°	1280.8	1222.2	1260.8	1299.4	1347.0	1394.6	1431.4	1468.4	1503.7	1539.0
1318.3	62.5°	1245.1	1172.1	1196.6	1221.1	1276.6	1332.2	1371.5	1410.8	1443.2	1475.5
1274.1	65°	1196.3	1118.5	1128.0	1137.3	1196.8	1256.4	1294.0	1331.6	1360.1	1388.6
1195.2	67.5°	1130.5	1065.7	1062.8	1059.8	1114.7	1169.8	1205.5	1241.0	1265.6	1290.2
1095.1	70°	1049.1	1003.1	992.8	982.6	1030.9	1079.2	1110.0	1140.7	1163.0	1185.2
983.7	72.5°	952.1	920.6	905.5	890.6	928.7	966.6	994.4	1022.2	1044.0	1065.7
857.2	75°	832.9	808.5	794.2	779.7	808.0	836.2	861.4	886.6	906.4	926.3
730.5	77.5°	711.0	691.5	676.9	662.3	685.3	708.3	729.9	751.6	772.4	793.2
586.0	80°	569.7	553.3	541.1	528.8	547.9	566.9	585.2	603.4	619.3	635.0
431.0	82.5°	423.0	415.0	406.4	397.7	396.1	394.5	388.1	381.8	415.5	449.2
283.8	85°	275.2	266.7	257.0	247.3	239.1	230.8	213.1	195.4	227.0	258.7
125.4	87.5°	121.9	118.5	116.7	114.9	114.5	114.2	100.7	87.2	100.4	113.7
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):**

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
2749.3	2.5°	2738.4	2730.0	2721.6	2713.8	2706.0	2696.3	2706.0	2713.8	2721.6	2730.0
2586.8	5°	2571.8	2561.2	2550.6	2542.5	2534.4	2526.5	2534.4	2542.5	2550.6	2561.2
2489.3	7.5°	2471.5	2459.4	2447.3	2440.0	2432.8	2427.3	2432.8	2440.0	2447.3	2459.4
2461.3	10°	2441.2	2429.7	2418.2	2412.1	2405.9	2403.4	2405.9	2412.1	2418.2	2429.7
2511.7	12.5°	2486.0	2473.1	2460.4	2455.1	2449.9	2449.0	2449.9	2455.1	2460.4	2473.1
2617.6	15°	2578.7	2560.8	2543.0	2536.2	2529.3	2528.8	2529.3	2536.2	2543.0	2560.8
2725.2	17.5°	2667.8	2641.3	2614.8	2606.1	2597.4	2596.0	2597.4	2606.1	2614.8	2641.3
2792.2	20°	2721.9	2688.1	2654.1	2643.3	2632.5	2629.0	2632.5	2643.3	2654.1	2688.1
2796.4	22.5°	2723.8	2688.2	2652.4	2640.4	2628.5	2623.3	2628.5	2640.4	2652.4	2688.2
2733.0	25°	2668.7	2637.7	2606.8	2595.5	2584.4	2577.8	2584.4	2595.5	2606.8	2637.7
2610.7	27.5°	2560.7	2539.9	2519.1	2513.9	2508.8	2507.1	2508.8	2513.9	2519.1	2539.9
2463.6	30°	2427.6	2417.0	2406.2	2406.2	2406.2	2408.0	2406.2	2406.2	2406.2	2417.0
2322.6	32.5°	2294.0	2287.0	2280.1	2281.0	2282.0	2283.7	2282.0	2281.0	2280.1	2287.0
2202.4	35°	2176.0	2165.5	2155.0	2152.7	2150.4	2149.3	2150.4	2152.7	2155.0	2165.5
2100.2	37.5°	2075.8	2056.5	2037.4	2027.2	2017.1	2011.4	2017.1	2027.2	2037.4	2056.5
2004.4	40°	1983.8	1955.8	1928.0	1909.0	1890.4	1879.2	1890.4	1909.0	1928.0	1955.8
1907.9	42.5°	1890.6	1855.8	1821.1	1793.6	1766.1	1748.1	1766.1	1793.6	1821.1	1855.8
1814.5	45°	1798.8	1759.1	1719.4	1687.2	1654.9	1634.2	1654.9	1687.2	1719.4	1759.1
1737.2	47.5°	1726.3	1690.9	1655.6	1625.7	1596.0	1576.1	1596.0	1625.7	1655.6	1690.9
1683.4	50°	1682.9	1654.7	1626.4	1598.8	1571.3	1552.1	1571.3	1598.8	1626.4	1654.7
1647.8	52.5°	1653.8	1630.8	1607.7	1583.0	1558.4	1540.7	1558.4	1583.0	1607.7	1630.8
1618.2	55°	1626.4	1606.4	1586.3	1564.7	1543.0	1527.1	1543.0	1564.7	1586.3	1606.4
1589.2	57.5°	1597.5	1577.2	1556.9	1535.5	1513.9	1497.4	1513.9	1535.5	1556.9	1577.2
1548.1	60°	1557.3	1537.4	1517.7	1495.6	1473.5	1456.4	1473.5	1495.6	1517.7	1537.4
1484.3	62.5°	1493.1	1475.2	1457.3	1434.1	1410.8	1390.3	1410.8	1434.1	1457.3	1475.2
1397.6	65°	1406.5	1389.3	1372.1	1349.5	1327.1	1309.4	1327.1	1349.5	1372.1	1389.3
1299.0	67.5°	1307.7	1291.8	1276.1	1255.1	1234.2	1218.2	1234.2	1255.1	1276.1	1291.8
1193.6	70°	1202.0	1189.2	1176.3	1156.2	1136.2	1117.9	1136.2	1156.2	1176.3	1189.2
1075.8	72.5°	1085.8	1075.1	1064.4	1045.2	1026.2	1008.5	1026.2	1045.2	1064.4	1075.1
936.7	75°	947.2	942.0	936.7	920.7	904.6	887.7	904.6	920.7	936.7	942.0
803.0	77.5°	812.8	805.5	797.9	781.8	765.6	752.1	765.6	781.8	797.9	805.5
648.0	80°	661.0	657.8	654.7	632.9	611.0	585.7	611.0	632.9	654.7	657.8
471.3	82.5°	493.4	492.1	490.6	472.2	453.8	437.6	453.8	472.2	490.6	492.1
286.0	85°	313.4	311.1	308.8	294.5	280.1	265.5	280.1	294.5	308.8	311.1
124.8	87.5°	135.8	133.1	130.1	122.8	115.3	108.3	115.3	122.8	130.1	133.1
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):**

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
2738.4	2.5°	2749.3	2760.1	2773.5	2786.9	2804.1	2821.4	2838.6	2855.8	2875.4	2895.1
2571.8	5°	2586.8	2601.7	2623.1	2644.4	2672.2	2699.9	2730.5	2761.0	2795.5	2830.2
2471.5	7.5°	2489.3	2507.1	2532.4	2557.8	2591.7	2625.6	2664.1	2702.5	2748.1	2793.7
2441.2	10°	2461.3	2481.1	2511.5	2541.9	2580.0	2618.2	2659.7	2701.1	2746.6	2792.2
2486.0	12.5°	2511.7	2537.3	2576.0	2614.8	2654.2	2693.8	2726.1	2758.7	2788.8	2819.1
2578.7	15°	2617.6	2656.6	2711.8	2766.9	2801.2	2835.5	2844.0	2852.4	2848.3	2844.2
2667.8	17.5°	2725.2	2782.7	2855.7	2928.7	2956.3	2984.0	2957.7	2931.3	2881.6	2831.9
2721.9	20°	2792.2	2862.7	2946.1	3029.6	3042.5	3055.2	3000.0	2944.7	2858.3	2772.1
2723.8	22.5°	2796.4	2868.9	2948.7	3028.5	3020.8	3013.1	2941.2	2869.3	2770.6	2672.1
2668.7	25°	2733.0	2797.5	2862.8	2928.2	2901.9	2875.4	2804.6	2733.9	2645.2	2556.7
2560.7	27.5°	2610.7	2660.7	2707.2	2753.8	2724.3	2694.9	2638.2	2581.4	2508.7	2435.9
2427.6	30°	2463.6	2499.4	2534.9	2570.3	2546.4	2522.5	2475.3	2428.2	2367.8	2307.4
2294.0	32.5°	2322.6	2351.2	2383.9	2416.5	2389.8	2363.3	2318.0	2272.9	2224.6	2176.4
2176.0	35°	2202.4	2228.8	2251.9	2275.2	2243.3	2211.4	2166.6	2121.9	2085.2	2048.4
2075.8	37.5°	2100.2	2124.4	2135.1	2145.8	2106.4	2067.0	2022.3	1977.8	1951.4	1925.0
1983.8	40°	2004.4	2025.1	2022.5	2019.9	1974.5	1929.1	1886.0	1842.9	1823.9	1804.9
1890.6	42.5°	1907.9	1925.3	1912.2	1899.1	1850.1	1801.1	1760.2	1719.4	1703.8	1688.3
1798.8	45°	1814.5	1830.2	1811.4	1792.6	1741.8	1690.9	1652.2	1613.4	1600.2	1587.2
1726.3	47.5°	1737.2	1748.1	1726.5	1704.8	1654.7	1604.5	1566.7	1528.8	1516.6	1504.3
1682.9	50°	1683.4	1684.1	1656.3	1628.5	1583.6	1538.7	1503.0	1467.2	1448.0	1428.8
1653.8	52.5°	1647.8	1641.9	1609.0	1576.1	1534.1	1492.3	1459.6	1426.8	1398.0	1369.2
1626.4	55°	1618.2	1610.0	1575.0	1540.2	1503.6	1466.9	1431.6	1396.2	1355.4	1314.5
1597.5	57.5°	1589.2	1580.8	1545.7	1510.5	1474.2	1437.9	1396.5	1355.0	1311.0	1267.0
1557.3	60°	1548.1	1539.0	1503.7	1468.4	1431.4	1394.6	1347.0	1299.4	1260.8	1222.2
1493.1	62.5°	1484.3	1475.5	1443.2	1410.8	1371.5	1332.2	1276.6	1221.1	1196.6	1172.1
1406.5	65°	1397.6	1388.6	1360.1	1331.6	1294.0	1256.4	1196.8	1137.3	1128.0	1118.5
1307.7	67.5°	1299.0	1290.2	1265.6	1241.0	1205.5	1169.8	1114.7	1059.8	1062.8	1065.7
1202.0	70°	1193.6	1185.2	1163.0	1140.7	1110.0	1079.2	1030.9	982.6	992.8	1003.1
1085.8	72.5°	1075.8	1065.7	1044.0	1022.2	994.4	966.6	928.7	890.6	905.5	920.6
947.2	75°	936.7	926.3	906.4	886.6	861.4	836.2	808.0	779.7	794.2	808.5
812.8	77.5°	803.0	793.2	772.4	751.6	729.9	708.3	685.3	662.3	676.9	691.5
661.0	80°	648.0	635.0	619.3	603.4	585.2	566.9	547.9	528.8	541.1	553.3
493.4	82.5°	471.3	449.2	415.5	381.8	388.1	394.5	396.1	397.7	406.4	415.0
313.4	85°	286.0	258.7	227.0	195.4	213.1	230.8	239.1	247.3	257.0	266.7
135.8	87.5°	124.8	113.7	100.4	87.2	100.7	114.2	114.5	114.9	116.7	118.5
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):**

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
2916.9	2.5°	2938.8	2965.8	2990.1	3015.1	3040.2	3066.4	3092.6	3118.6	3144.7	3169.2
2871.5	5°	2912.8	2960.1	3007.9	3058.7	3109.4	3163.6	3218.0	3271.9	3325.9	3380.0
2848.5	7.5°	2903.4	2964.6	3029.9	3100.7	3171.5	3251.8	3332.2	3414.7	3497.2	3586.4
2850.1	10°	2908.0	2973.8	3054.3	3138.2	3221.9	3319.5	3417.1	3526.0	3635.1	3748.0
2866.3	12.5°	2913.7	2974.9	3059.6	3154.3	3249.0	3364.1	3479.2	3602.7	3726.2	3850.2
2866.8	15°	2889.4	2938.4	3032.2	3141.9	3251.5	3384.0	3516.5	3650.6	3784.6	3913.9
2823.7	17.5°	2815.4	2845.6	2955.9	3087.7	3219.6	3373.4	3527.3	3673.5	3819.7	3950.8
2733.3	20°	2694.6	2702.5	2831.0	2994.4	3157.8	3344.2	3530.7	3691.4	3852.0	3988.5
2614.8	22.5°	2557.5	2541.9	2688.1	2884.9	3081.7	3308.5	3535.2	3715.5	3895.7	4035.1
2490.6	25°	2424.5	2382.3	2532.2	2762.6	2993.1	3273.1	3553.2	3759.3	3965.2	4101.6
2372.1	27.5°	2308.2	2257.0	2393.4	2650.8	2908.2	3249.5	3590.9	3827.7	4064.4	4194.6
2256.6	30°	2206.0	2165.8	2280.3	2557.4	2834.4	3238.5	3642.4	3916.2	4190.0	4315.7
2146.4	32.5°	2116.4	2098.6	2190.9	2476.8	2762.6	3224.8	3686.8	4008.6	4330.4	4454.9
2040.1	35°	2031.9	2039.3	2116.2	2397.6	2678.9	3199.1	3719.4	4113.9	4508.4	4627.8
1934.1	37.5°	1943.2	1970.4	2037.6	2304.4	2571.1	3155.0	3738.8	4231.9	4725.0	4877.0
1825.5	40°	1846.1	1887.7	1948.7	2193.1	2437.6	3094.2	3751.0	4381.6	5012.1	5233.7
1715.7	42.5°	1743.0	1795.4	1851.6	2070.4	2289.2	3031.5	3774.1	4577.5	5380.9	5700.7
1613.8	45°	1640.4	1691.2	1748.1	1940.0	2131.9	2973.3	3814.8	4835.3	5855.8	6287.1
1526.6	47.5°	1548.9	1592.6	1666.1	1836.9	2007.7	2925.2	3842.7	5109.9	6377.1	6984.3
1448.5	50°	1468.4	1519.1	1615.7	1768.4	1921.1	2872.8	3824.5	5364.7	6905.0	7820.3
1388.7	52.5°	1408.3	1479.2	1590.3	1723.3	1856.4	2784.2	3712.2	5530.2	7348.1	8698.5
1345.4	55°	1376.4	1483.2	1586.5	1690.6	1794.6	2637.5	3480.3	5493.7	7507.1	9477.1
1312.1	57.5°	1357.3	1487.2	1578.3	1651.8	1725.3	2430.5	3135.6	5237.1	7338.7	10028.9
1280.8	60°	1339.2	1474.6	1534.8	1592.6	1650.4	2161.8	2673.3	4759.5	6845.7	10166.7
1245.1	62.5°	1318.3	1443.9	1451.3	1489.6	1528.0	1840.2	2152.5	4113.7	6074.9	9586.1
1196.3	65°	1274.1	1369.8	1368.9	1387.0	1405.1	1550.9	1696.6	3454.8	5213.1	8764.6
1130.5	67.5°	1195.2	1249.0	1251.5	1241.5	1231.3	1272.8	1314.2	2809.3	4304.5	7786.9
1049.1	70°	1095.1	1112.8	1112.8	1066.0	1019.0	1007.3	995.4	2211.9	3428.5	6720.2
952.1	72.5°	983.7	983.5	972.3	905.9	839.3	803.5	767.9	1691.0	2614.2	5563.7
832.9	75°	857.2	861.5	810.0	735.5	661.0	628.6	596.2	1227.3	1858.4	4238.0
711.0	77.5°	730.5	732.8	647.9	575.5	503.1	481.0	459.0	831.7	1204.3	2966.2
569.7	80°	586.0	586.3	484.9	423.7	362.4	353.3	344.2	535.8	727.6	1911.1
423.0	82.5°	431.0	426.2	339.6	294.5	249.3	247.5	245.9	329.6	413.4	1106.1
275.2	85°	283.8	277.5	213.1	180.1	147.0	147.9	148.7	176.2	203.8	497.5
121.9	87.5°	125.4	117.4	90.6	77.0	63.6	64.4	65.2	73.0	80.9	163.0
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):**

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
3193.7	2.5°	3205.8	3218.0	3235.2	3252.4	3262.6	3272.9	3278.0	3283.2	3280.9	3283.2
3434.2	5°	3476.4	3518.8	3560.8	3602.8	3625.6	3648.4	3662.2	3676.1	3686.6	3676.1
3675.7	7.5°	3744.6	3813.3	3875.2	3937.1	3974.3	4011.6	4031.8	4051.8	4061.5	4051.8
3860.9	10°	3942.3	4023.7	4096.3	4168.9	4212.8	4256.6	4276.2	4295.7	4303.1	4295.7
3974.3	12.5°	4062.5	4150.6	4216.3	4281.7	4313.6	4345.5	4356.2	4366.9	4368.1	4366.9
4043.3	15°	4119.4	4195.4	4236.5	4277.8	4278.9	4280.1	4268.7	4257.3	4243.8	4257.3
4082.0	17.5°	4133.4	4184.8	4185.6	4186.3	4140.1	4094.0	4051.7	4009.3	3979.5	4009.3
4124.7	20°	4142.6	4160.6	4106.5	4052.4	3950.5	3848.6	3774.4	3700.3	3654.7	3700.3
4174.3	22.5°	4150.8	4127.4	4015.2	3903.1	3753.2	3603.4	3510.6	3417.9	3367.5	3417.9
4238.1	25°	4164.1	4090.0	3919.7	3749.5	3567.5	3385.5	3287.9	3190.6	3143.0	3190.6
4324.7	27.5°	4192.3	4059.8	3834.3	3608.9	3407.1	3205.4	3109.5	3013.6	2968.6	3013.6
4441.6	30°	4244.1	4046.7	3769.1	3491.5	3281.3	3071.2	2982.2	2893.2	2851.3	2893.2
4579.4	32.5°	4309.0	4038.7	3724.6	3410.6	3213.1	3015.6	2945.7	2875.8	2845.6	2875.8
4747.0	35°	4416.0	4085.2	3757.9	3430.7	3293.5	3156.4	3140.1	3123.8	3121.3	3123.8
5029.0	37.5°	4639.7	4250.4	3953.0	3655.6	3646.7	3637.8	3712.3	3786.9	3825.6	3786.9
5455.2	40°	5031.9	4608.5	4387.3	4166.1	4322.2	4478.4	4659.6	4840.8	4931.0	4840.8
6020.5	42.5°	5600.4	5180.4	5052.9	4925.5	5266.0	5606.6	5936.1	6265.7	6459.2	6265.7
6718.5	45°	6341.1	5963.7	5907.5	5851.2	6396.8	6942.4	7483.9	8025.6	8354.3	8025.6
7591.4	47.5°	7224.3	6857.1	6845.7	6834.4	7621.4	8408.1	9200.9	9993.6	10459.2	9993.6
8735.5	50°	8282.1	7828.8	7830.7	7832.6	8846.9	9861.1	10907.6	11954.1	12586.8	11954.1
10048.9	52.5°	9499.9	8950.9	8895.4	8839.8	10051.3	11262.8	12557.6	13852.3	14610.7	13852.3
11447.2	55°	10904.7	10362.3	10145.9	9929.5	11277.8	12626.1	14169.7	15713.2	16615.2	15713.2
12719.0	57.5°	12423.6	12128.1	11694.0	11260.1	12621.5	13983.0	15731.4	17479.6	18598.1	17479.6
13487.6	60°	13946.4	14405.3	13866.3	13327.3	14615.7	15904.1	17776.0	19647.9	20856.8	19647.9
13097.3	62.5°	14351.0	15604.6	15543.9	15483.0	16663.3	17843.7	19624.7	21405.5	22522.9	21405.5
12316.1	65°	13492.8	14669.4	14902.2	15134.9	16634.8	18134.9	19861.8	21588.6	22540.0	21588.6
11269.4	67.5°	12388.5	13507.6	13616.7	13725.8	15288.6	16851.4	18585.7	20320.0	21065.3	20320.0
10011.9	70°	11229.1	12446.4	12495.2	12544.0	13941.6	15339.1	16831.6	18324.0	18738.3	18324.0
8513.3	72.5°	9910.1	11307.0	11342.1	11377.1	12470.5	13564.0	14681.8	15799.5	15841.5	15799.5
6617.6	75°	8063.3	9509.0	9638.8	9768.6	10619.3	11470.0	12256.9	13043.8	12832.9	13043.8
4728.2	77.5°	6077.7	7427.3	7613.0	7798.8	8445.5	9092.2	9650.3	10208.5	9846.1	10208.5
3094.6	80°	4229.9	5365.2	5596.1	5827.0	6315.4	6803.6	7096.7	7389.7	6806.8	7389.7
1798.8	82.5°	2575.0	3351.3	3609.2	3867.2	4203.4	4539.6	4661.8	4784.0	4325.9	4784.0
791.4	85°	1203.4	1615.4	1834.7	2054.1	2330.3	2606.5	2675.9	2745.3	2378.3	2745.3
245.0	87.5°	383.5	521.9	644.3	766.7	904.8	1043.0	1048.9	1054.7	885.5	1054.7
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):**

325°		330°	335°	340°	345°	350°	355°	360°
2969.8	0°	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8	2969.8
3278.0	2.5°	3272.9	3262.6	3252.4	3235.2	3218.0	3205.8	3193.7
3662.2	5°	3648.4	3625.6	3602.8	3560.8	3518.8	3476.4	3434.2
4031.8	7.5°	4011.6	3974.3	3937.1	3875.2	3813.3	3744.6	3675.7
4276.2	10°	4256.6	4212.8	4168.9	4096.3	4023.7	3942.3	3860.9
4356.2	12.5°	4345.5	4313.6	4281.7	4216.3	4150.6	4062.5	3974.3
4268.7	15°	4280.1	4278.9	4277.8	4236.5	4195.4	4119.4	4043.3
4051.7	17.5°	4094.0	4140.1	4186.3	4185.6	4184.8	4133.4	4082.0
3774.4	20°	3848.6	3950.5	4052.4	4106.5	4160.6	4142.6	4124.7
3510.6	22.5°	3603.4	3753.2	3903.1	4015.2	4127.4	4150.8	4174.3
3287.9	25°	3385.5	3567.5	3749.5	3919.7	4090.0	4164.1	4238.1
3109.5	27.5°	3205.4	3407.1	3608.9	3834.3	4059.8	4192.3	4324.7
2982.2	30°	3071.2	3281.3	3491.5	3769.1	4046.7	4244.1	4441.6
2945.7	32.5°	3015.6	3213.1	3410.6	3724.6	4038.7	4309.0	4579.4
3140.1	35°	3156.4	3293.5	3430.7	3757.9	4085.2	4416.0	4747.0
3712.3	37.5°	3637.8	3646.7	3655.6	3953.0	4250.4	4639.7	5029.0
4659.6	40°	4478.4	4322.2	4166.1	4387.3	4608.5	5031.9	5455.2
5936.1	42.5°	5606.6	5266.0	4925.5	5052.9	5180.4	5600.4	6020.5
7483.9	45°	6942.4	6396.8	5851.2	5907.5	5963.7	6341.1	6718.5
9200.9	47.5°	8408.1	7621.4	6834.4	6845.7	6857.1	7224.3	7591.4
10907.6	50°	9861.1	8846.9	7832.6	7830.7	7828.8	8282.1	8735.5
12557.6	52.5°	11262.8	10051.3	8839.8	8895.4	8950.9	9499.9	10048.9
14169.7	55°	12626.1	11277.8	9929.5	10145.9	10362.3	10904.7	11447.2
15731.4	57.5°	13983.0	12621.5	11260.1	11694.0	12128.1	12423.6	12719.0
17776.0	60°	15904.1	14615.7	13327.3	13866.3	14405.3	13946.4	13487.6
19624.7	62.5°	17843.7	16663.3	15483.0	15543.9	15604.6	14351.0	13097.3
19861.8	65°	18134.9	16634.8	15134.9	14902.2	14669.4	13492.8	12316.1
18585.7	67.5°	16851.4	15288.6	13725.8	13616.7	13507.6	12388.5	11269.4
16831.6	70°	15339.1	13941.6	12544.0	12495.2	12446.4	11229.1	10011.9
14681.8	72.5°	13564.0	12470.5	11377.1	11342.1	11307.0	9910.1	8513.3
12256.9	75°	11470.0	10619.3	9768.6	9638.8	9509.0	8063.3	6617.6
9650.3	77.5°	9092.2	8445.5	7798.8	7613.0	7427.3	6077.7	4728.2
7096.7	80°	6803.6	6315.4	5827.0	5596.1	5365.2	4229.9	3094.6
4661.8	82.5°	4539.6	4203.4	3867.2	3609.2	3351.3	2575.0	1798.8
2675.9	85°	2606.5	2330.3	2054.1	1834.7	1615.4	1203.4	791.4
1048.9	87.5°	1043.0	904.8	766.7	644.3	521.9	383.5	245.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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