

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: P953725

Luminaire Tested: **GALN-SB7A-940-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953725
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-SB7A-940-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 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: 23034 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

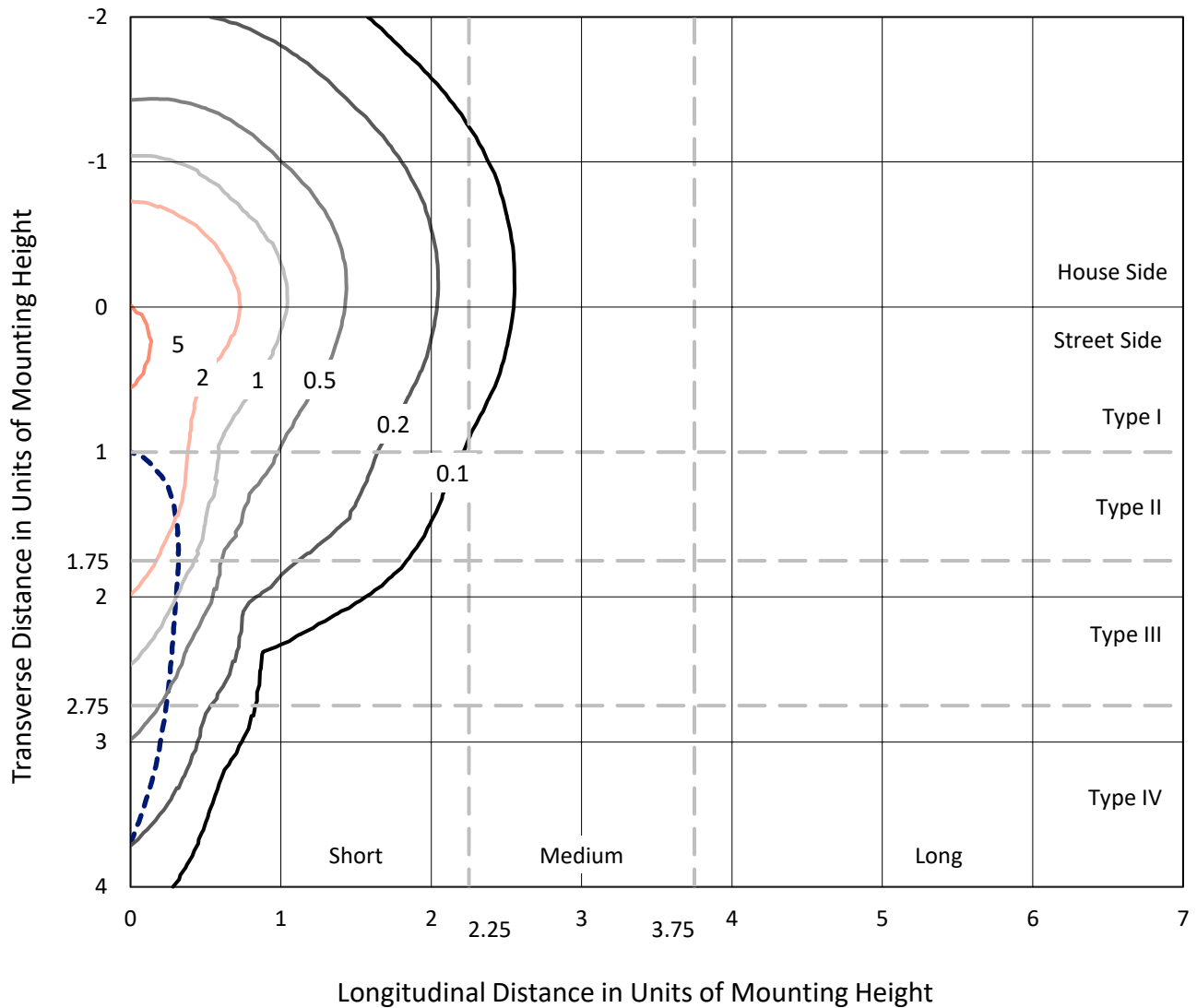
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

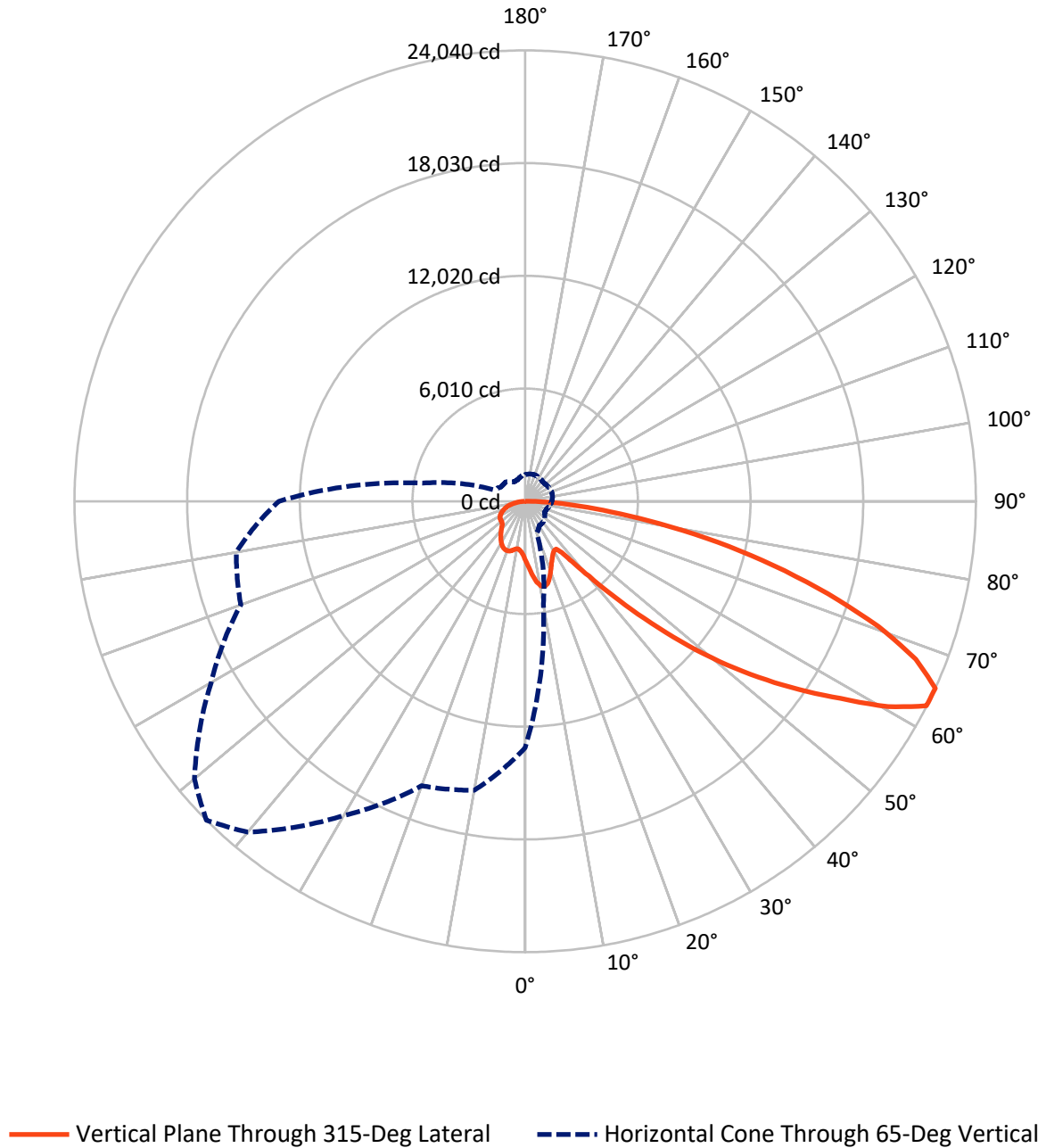
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	5854.1	0.0	5854.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	17179.9	0.0	17179.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	23034.0	0.0	23034.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	1.4
10°-20°	986.3	4.3
20°-30°	1523.6	6.6
30°-40°	1930.7	8.4
40°-50°	2912.0	12.6
50°-60°	4704.8	20.4
60°-70°	5865.3	25.5
70°-80°	3846.2	16.7
80°-90°	950.9	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°	23034.0	100.0
0°-180°	23034.0	100.0



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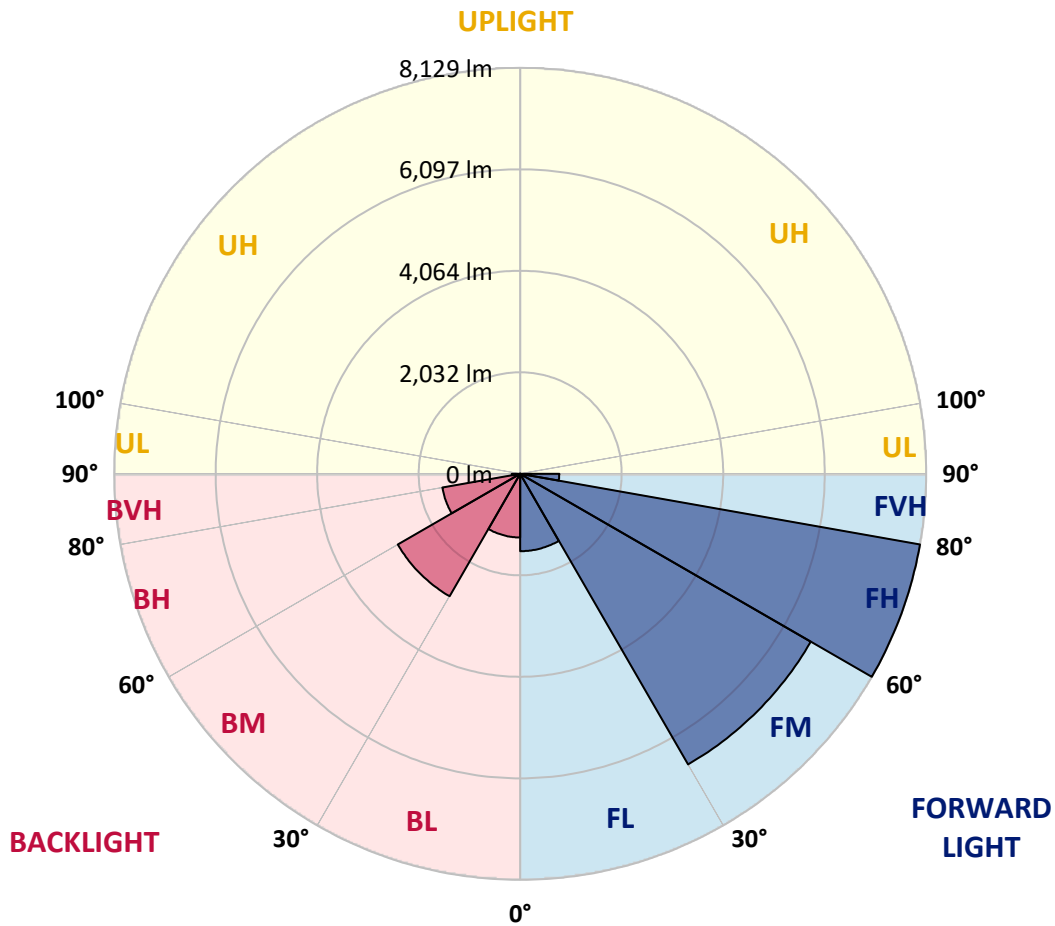
CATALOG NUMBER: GALN-SB7A-940-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.3	6.7			
FM (30°-60°)	6718.5	29.2			
FH (60°-80°)	8128.8	35.3			G4/12000
FVH (80°-90°)	783.3	3.4			G5
BL (0°-30°)	1274.8	5.5	B3/2500		
BM (30°-60°)	2829.0	12.3	B3/5000		
BH (60°-80°)	1582.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	167.6	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
2.5°	3406.2	3380.1	3353.9	3326.1	3298.4	3270.4	3242.5	3215.7	3189.0	3163.1
5°	3662.7	3604.9	3547.2	3489.6	3432.1	3374.1	3316.3	3262.2	3208.1	3157.0
7.5°	3920.3	3825.0	3729.9	3641.9	3553.9	3468.2	3382.5	3307.0	3231.5	3161.9
10°	4117.8	3997.4	3876.9	3760.6	3644.4	3540.4	3436.2	3347.0	3257.6	3171.6
12.5°	4238.8	4106.4	3974.2	3842.4	3710.7	3587.9	3465.2	3364.1	3263.1	3172.8
15°	4312.3	4174.3	4036.4	3893.5	3750.5	3609.2	3467.8	3350.9	3234.0	3133.9
17.5°	4353.6	4213.7	4073.8	3917.9	3762.0	3597.9	3433.8	3293.2	3152.5	3034.9
20°	4399.2	4253.8	4108.3	3937.0	3765.6	3566.8	3367.9	3193.6	3019.3	2882.4
22.5°	4452.1	4303.5	4154.9	3962.7	3770.5	3528.6	3286.7	3076.8	2866.9	2711.0
25°	4520.1	4374.5	4229.0	4009.4	3789.7	3490.9	3192.3	2946.4	2700.7	2540.8
27.5°	4612.5	4473.7	4334.8	4082.3	3829.8	3465.8	3101.7	2827.2	2552.6	2407.1
30°	4737.1	4602.9	4468.8	4176.8	3884.7	3454.0	3023.0	2727.5	2432.0	2309.9
32.5°	4884.1	4751.3	4618.6	4275.3	3932.1	3439.4	2946.4	2641.6	2336.6	2238.2
35°	5062.8	4935.7	4808.4	4387.7	3966.9	3411.9	2857.2	2557.1	2257.0	2175.0
37.5°	5363.6	5201.5	5039.4	4513.4	3987.5	3364.9	2742.2	2457.7	2173.2	2101.5
40°	5818.2	5581.9	5345.6	4673.2	4000.5	3300.1	2599.8	2339.1	2078.4	2013.3
42.5°	6421.0	6080.0	5738.9	4882.1	4025.2	3233.2	2441.5	2208.2	1974.8	1914.9
45°	7165.5	6705.4	6245.4	5157.0	4068.6	3171.1	2273.8	2069.1	1864.4	1803.7
47.5°	8096.5	7449.0	6801.5	5449.9	4098.4	3119.9	2141.3	1959.1	1776.9	1698.5
50°	9316.8	8340.7	7364.4	5721.7	4078.9	3063.9	2048.9	1886.1	1723.2	1620.1
52.5°	10717.5	9277.3	7837.0	5898.2	3959.2	2969.5	1979.9	1838.0	1696.1	1577.6
55°	12208.9	10107.6	8006.6	5859.3	3711.9	2813.0	1914.0	1803.1	1692.1	1581.9
57.5°	13565.3	10696.1	7827.0	5585.6	3344.2	2592.2	1840.1	1761.7	1683.4	1586.1
60°	14385.1	10843.2	7301.2	5076.2	2851.1	2305.6	1760.2	1698.5	1636.9	1572.7
62.5°	13968.8	10224.0	6479.1	4387.4	2295.7	1962.7	1629.6	1588.7	1547.8	1539.9
65°	13135.6	9347.8	5559.9	3684.7	1809.5	1654.1	1498.6	1479.3	1460.0	1460.9
67.5°	12019.2	8305.1	4590.9	2996.2	1401.6	1357.5	1313.3	1324.1	1334.8	1332.1
70°	10678.0	7167.3	3656.6	2359.1	1061.7	1074.3	1086.8	1136.9	1186.9	1186.9
72.5°	9079.8	5933.9	2788.2	1803.6	818.9	857.0	895.2	966.1	1037.0	1048.9
75°	7057.9	4520.0	1982.1	1309.0	635.9	670.4	704.9	784.4	863.9	918.9
77.5°	5042.8	3163.6	1284.5	887.0	489.6	513.0	536.6	613.8	691.0	781.5
80°	3300.5	2038.3	776.0	571.5	367.1	376.8	386.5	451.9	517.2	625.3
82.5°	1918.5	1179.7	441.0	351.5	262.3	264.0	265.9	314.1	362.2	454.6
85°	844.1	530.7	217.3	187.9	158.6	157.8	156.8	192.0	227.3	296.0
87.5°	261.3	173.8	86.3	77.9	69.5	68.7	67.8	82.2	96.6	125.2
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°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
3134.3	2.5°	3111.0	3087.8	3066.7	3045.8	3027.5	3009.1	2990.7	2972.3	2958.1	2943.7
3106.6	5°	3062.6	3018.5	2981.5	2944.7	2912.1	2879.6	2850.0	2820.4	2797.6	2774.8
3096.6	7.5°	3038.1	2979.6	2931.0	2882.4	2841.4	2800.3	2764.1	2728.0	2700.9	2673.9
3101.5	10°	3039.8	2978.0	2929.4	2880.8	2836.7	2792.4	2751.7	2711.0	2678.7	2646.2
3107.6	12.5°	3057.0	3006.7	2974.4	2942.3	2907.5	2873.0	2830.8	2788.8	2747.4	2706.1
3081.7	15°	3057.5	3033.4	3037.8	3042.2	3033.2	3024.2	2987.6	2951.0	2892.2	2833.4
3002.7	17.5°	3011.6	3020.3	3073.3	3126.3	3154.5	3182.6	3153.0	3123.6	3045.7	2967.8
2873.9	20°	2915.2	2956.5	3048.5	3140.6	3199.6	3258.5	3244.9	3231.2	3142.1	3053.1
2727.6	22.5°	2788.8	2849.9	2954.9	3060.2	3136.9	3213.6	3221.8	3230.0	3144.9	3059.8
2585.8	25°	2656.3	2726.8	2821.2	2915.8	2991.3	3066.7	3094.9	3123.0	3053.2	2983.6
2461.8	27.5°	2529.9	2598.0	2675.6	2753.2	2813.7	2874.2	2905.6	2937.1	2887.3	2837.8
2352.8	30°	2406.8	2461.0	2525.4	2589.8	2640.0	2690.3	2715.8	2741.4	2703.6	2665.6
2257.3	32.5°	2289.2	2321.2	2372.6	2424.1	2472.3	2520.5	2548.8	2577.3	2542.5	2507.6
2167.1	35°	2175.8	2184.7	2224.0	2263.1	2310.7	2358.5	2392.5	2426.6	2401.8	2377.1
2072.5	37.5°	2062.8	2053.1	2081.3	2109.4	2156.9	2204.5	2246.6	2288.6	2277.2	2265.8
1969.0	40°	1947.0	1925.0	1945.3	1965.6	2011.5	2057.5	2105.8	2154.3	2157.1	2159.8
1859.0	42.5°	1829.8	1800.6	1817.2	1833.8	1877.3	1921.0	1973.2	2025.5	2039.5	2053.4
1749.6	45°	1721.2	1692.8	1706.7	1720.8	1762.1	1803.4	1857.6	1911.8	1931.9	1952.0
1652.0	47.5°	1628.2	1604.3	1617.5	1630.5	1671.0	1711.3	1764.8	1818.3	1841.4	1864.4
1566.1	50°	1544.9	1523.9	1544.3	1564.8	1603.0	1641.1	1688.9	1736.8	1766.5	1796.1
1502.0	52.5°	1481.1	1460.3	1491.1	1521.7	1556.7	1591.6	1636.2	1680.9	1716.0	1751.2
1468.0	55°	1434.9	1402.0	1445.6	1489.1	1526.8	1564.5	1603.6	1642.6	1679.8	1717.1
1447.6	57.5°	1399.4	1351.3	1398.2	1445.1	1489.4	1533.6	1572.3	1611.0	1648.6	1686.0
1428.4	60°	1366.0	1303.5	1344.7	1385.8	1436.6	1487.4	1526.7	1566.1	1603.7	1641.4
1406.0	62.5°	1328.0	1250.1	1276.2	1302.3	1361.5	1420.8	1462.8	1504.7	1539.2	1573.7
1358.8	65°	1275.9	1192.9	1203.0	1213.0	1276.4	1340.0	1380.1	1420.2	1450.6	1481.0
1274.7	67.5°	1205.7	1136.7	1133.5	1130.3	1188.9	1247.6	1285.7	1323.6	1349.8	1376.1
1168.0	70°	1118.9	1069.8	1058.9	1047.9	1099.5	1151.0	1183.8	1216.6	1240.3	1264.0
1049.1	72.5°	1015.5	981.8	965.8	949.8	990.4	1030.9	1060.6	1090.2	1113.4	1136.7
914.2	75°	888.3	862.3	847.0	831.6	861.7	891.9	918.7	945.6	966.7	987.9
779.1	77.5°	758.3	737.5	722.0	706.4	731.0	755.4	778.5	801.6	823.8	845.9
625.0	80°	607.6	590.1	577.1	564.0	584.4	604.7	624.1	643.6	660.5	677.2
459.7	82.5°	451.2	442.7	433.4	424.2	422.5	420.8	414.0	407.2	443.1	479.1
302.6	85°	293.5	284.4	274.1	263.7	255.0	246.1	227.3	208.4	242.1	275.9
133.7	87.5°	130.0	126.4	124.5	122.5	122.1	121.8	107.4	93.0	107.1	121.3
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°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
2932.2	2.5°	2920.6	2911.6	2902.7	2894.4	2886.0	2875.7	2886.0	2894.4	2902.7	2911.6
2758.9	5°	2743.0	2731.6	2720.3	2711.7	2703.1	2694.6	2703.1	2711.7	2720.3	2731.6
2655.0	7.5°	2636.0	2623.0	2610.1	2602.3	2594.7	2588.8	2594.7	2602.3	2610.1	2623.0
2625.1	10°	2603.7	2591.4	2579.1	2572.5	2566.0	2563.3	2566.0	2572.5	2579.1	2591.4
2678.8	12.5°	2651.4	2637.7	2624.1	2618.5	2612.9	2611.9	2612.9	2618.5	2624.1	2637.7
2791.8	15°	2750.2	2731.2	2712.2	2704.9	2697.6	2697.0	2697.6	2704.9	2712.2	2731.2
2906.5	17.5°	2845.3	2817.1	2788.8	2779.5	2770.2	2768.7	2770.2	2779.5	2788.8	2817.1
2978.0	20°	2903.0	2866.9	2830.7	2819.2	2807.6	2804.0	2807.6	2819.2	2830.7	2866.9
2982.5	22.5°	2905.1	2867.0	2828.9	2816.1	2803.4	2797.9	2803.4	2816.1	2828.9	2867.0
2914.8	25°	2846.3	2813.2	2780.3	2768.2	2756.3	2749.3	2756.3	2768.2	2780.3	2813.2
2784.4	27.5°	2731.0	2708.9	2686.7	2681.2	2675.7	2673.9	2675.7	2681.2	2686.7	2708.9
2627.5	30°	2589.1	2577.8	2566.4	2566.4	2566.4	2568.2	2566.4	2566.4	2566.4	2577.8
2477.1	32.5°	2446.6	2439.2	2431.8	2432.8	2433.9	2435.7	2433.9	2432.8	2431.8	2439.2
2348.9	35°	2320.8	2309.5	2298.4	2295.9	2293.5	2292.3	2293.5	2295.9	2298.4	2309.5
2239.9	37.5°	2213.9	2193.3	2172.9	2162.1	2151.3	2145.2	2151.3	2162.1	2172.9	2193.3
2137.8	40°	2115.8	2085.9	2056.2	2036.1	2016.1	2004.2	2016.1	2036.1	2056.2	2085.9
2034.8	42.5°	2016.4	1979.3	1942.2	1912.9	1883.7	1864.4	1883.7	1912.9	1942.2	1979.3
1935.2	45°	1918.5	1876.1	1833.8	1799.4	1765.0	1742.9	1765.0	1799.4	1833.8	1876.1
1852.8	47.5°	1841.1	1803.4	1765.8	1733.9	1702.2	1680.9	1702.2	1733.9	1765.8	1803.4
1795.4	50°	1794.9	1764.8	1734.6	1705.2	1675.8	1655.4	1675.8	1705.2	1734.6	1764.8
1757.5	52.5°	1763.8	1739.3	1714.7	1688.3	1662.1	1643.2	1662.1	1688.3	1714.7	1739.3
1725.9	55°	1734.6	1713.3	1691.9	1668.8	1645.7	1628.7	1645.7	1668.8	1691.9	1713.3
1694.9	57.5°	1703.8	1682.1	1660.5	1637.7	1614.7	1597.1	1614.7	1637.7	1660.5	1682.1
1651.1	60°	1660.9	1639.7	1618.7	1595.1	1571.5	1553.3	1571.5	1595.1	1618.7	1639.7
1583.1	62.5°	1592.4	1573.4	1554.3	1529.5	1504.7	1482.8	1504.7	1529.5	1554.3	1573.4
1490.6	65°	1500.1	1481.7	1463.4	1439.3	1415.4	1396.5	1415.4	1439.3	1463.4	1481.7
1385.5	67.5°	1394.7	1377.8	1361.0	1338.7	1316.3	1299.3	1316.3	1338.7	1361.0	1377.8
1273.0	70°	1282.0	1268.3	1254.6	1233.2	1211.8	1192.3	1211.8	1233.2	1254.6	1268.3
1147.4	72.5°	1158.0	1146.6	1135.2	1114.8	1094.5	1075.6	1094.5	1114.8	1135.2	1146.6
999.1	75°	1010.3	1004.7	999.1	981.9	964.8	946.8	964.8	981.9	999.1	1004.7
856.4	77.5°	866.8	859.1	851.0	833.8	816.5	802.2	816.5	833.8	851.0	859.1
691.1	80°	704.9	701.5	698.3	675.0	651.7	624.7	651.7	675.0	698.3	701.5
502.7	82.5°	526.3	524.8	523.2	503.7	484.0	466.7	484.0	503.7	523.2	524.8
305.1	85°	334.2	331.8	329.4	314.1	298.7	283.2	298.7	314.1	329.4	331.8
133.1	87.5°	144.9	142.0	138.8	131.0	123.0	115.5	123.0	131.0	138.8	142.0
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
2920.6	2.5°	2932.2	2943.7	2958.1	2972.3	2990.7	3009.1	3027.5	3045.8	3066.7	3087.8
2743.0	5°	2758.9	2774.8	2797.6	2820.4	2850.0	2879.6	2912.1	2944.7	2981.5	3018.5
2636.0	7.5°	2655.0	2673.9	2700.9	2728.0	2764.1	2800.3	2841.4	2882.4	2931.0	2979.6
2603.7	10°	2625.1	2646.2	2678.7	2711.0	2751.7	2792.4	2836.7	2880.8	2929.4	2978.0
2651.4	12.5°	2678.8	2706.1	2747.4	2788.8	2830.8	2873.0	2907.5	2942.3	2974.4	3006.7
2750.2	15°	2791.8	2833.4	2892.2	2951.0	2987.6	3024.2	3033.2	3042.2	3037.8	3033.4
2845.3	17.5°	2906.5	2967.8	3045.7	3123.6	3153.0	3182.6	3154.5	3126.3	3073.3	3020.3
2903.0	20°	2978.0	3053.1	3142.1	3231.2	3244.9	3258.5	3199.6	3140.6	3048.5	2956.5
2905.1	22.5°	2982.5	3059.8	3144.9	3230.0	3221.8	3213.6	3136.9	3060.2	2954.9	2849.9
2846.3	25°	2914.8	2983.6	3053.2	3123.0	3094.9	3066.7	2991.3	2915.8	2821.2	2726.8
2731.0	27.5°	2784.4	2837.8	2887.3	2937.1	2905.6	2874.2	2813.7	2753.2	2675.6	2598.0
2589.1	30°	2627.5	2665.6	2703.6	2741.4	2715.8	2690.3	2640.0	2589.8	2525.4	2461.0
2446.6	32.5°	2477.1	2507.6	2542.5	2577.3	2548.8	2520.5	2472.3	2424.1	2372.6	2321.2
2320.8	35°	2348.9	2377.1	2401.8	2426.6	2392.5	2358.5	2310.7	2263.1	2224.0	2184.7
2213.9	37.5°	2239.9	2265.8	2277.2	2288.6	2246.6	2204.5	2156.9	2109.4	2081.3	2053.1
2115.8	40°	2137.8	2159.8	2157.1	2154.3	2105.8	2057.5	2011.5	1965.6	1945.3	1925.0
2016.4	42.5°	2034.8	2053.4	2039.5	2025.5	1973.2	1921.0	1877.3	1833.8	1817.2	1800.6
1918.5	45°	1935.2	1952.0	1931.9	1911.8	1857.6	1803.4	1762.1	1720.8	1706.7	1692.8
1841.1	47.5°	1852.8	1864.4	1841.4	1818.3	1764.8	1711.3	1671.0	1630.5	1617.5	1604.3
1794.9	50°	1795.4	1796.1	1766.5	1736.8	1688.9	1641.1	1603.0	1564.8	1544.3	1523.9
1763.8	52.5°	1757.5	1751.2	1716.0	1680.9	1636.2	1591.6	1556.7	1521.7	1491.1	1460.3
1734.6	55°	1725.9	1717.1	1679.8	1642.6	1603.6	1564.5	1526.8	1489.1	1445.6	1402.0
1703.8	57.5°	1694.9	1686.0	1648.6	1611.0	1572.3	1533.6	1489.4	1445.1	1398.2	1351.3
1660.9	60°	1651.1	1641.4	1603.7	1566.1	1526.7	1487.4	1436.6	1385.8	1344.7	1303.5
1592.4	62.5°	1583.1	1573.7	1539.2	1504.7	1462.8	1420.8	1361.5	1302.3	1276.2	1250.1
1500.1	65°	1490.6	1481.0	1450.6	1420.2	1380.1	1340.0	1276.4	1213.0	1203.0	1192.9
1394.7	67.5°	1385.5	1376.1	1349.8	1323.6	1285.7	1247.6	1188.9	1130.3	1133.5	1136.7
1282.0	70°	1273.0	1264.0	1240.3	1216.6	1183.8	1151.0	1099.5	1047.9	1058.9	1069.8
1158.0	72.5°	1147.4	1136.7	1113.4	1090.2	1060.6	1030.9	990.4	949.8	965.8	981.8
1010.3	75°	999.1	987.9	966.7	945.6	918.7	891.9	861.7	831.6	847.0	862.3
866.8	77.5°	856.4	845.9	823.8	801.6	778.5	755.4	731.0	706.4	722.0	737.5
704.9	80°	691.1	677.2	660.5	643.6	624.1	604.7	584.4	564.0	577.1	590.1
526.3	82.5°	502.7	479.1	443.1	407.2	414.0	420.8	422.5	424.2	433.4	442.7
334.2	85°	305.1	275.9	242.1	208.4	227.3	246.1	255.0	263.7	274.1	284.4
144.9	87.5°	133.1	121.3	107.1	93.0	107.4	121.8	122.1	122.5	124.5	126.4
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
3111.0	2.5°	3134.3	3163.1	3189.0	3215.7	3242.5	3270.4	3298.4	3326.1	3353.9	3380.1
3062.6	5°	3106.6	3157.0	3208.1	3262.2	3316.3	3374.1	3432.1	3489.6	3547.2	3604.9
3038.1	7.5°	3096.6	3161.9	3231.5	3307.0	3382.5	3468.2	3553.9	3641.9	3729.9	3825.0
3039.8	10°	3101.5	3171.6	3257.6	3347.0	3436.2	3540.4	3644.4	3760.6	3876.9	3997.4
3057.0	12.5°	3107.6	3172.8	3263.1	3364.1	3465.2	3587.9	3710.7	3842.4	3974.2	4106.4
3057.5	15°	3081.7	3133.9	3234.0	3350.9	3467.8	3609.2	3750.5	3893.5	4036.4	4174.3
3011.6	17.5°	3002.7	3034.9	3152.5	3293.2	3433.8	3597.9	3762.0	3917.9	4073.8	4213.7
2915.2	20°	2873.9	2882.4	3019.3	3193.6	3367.9	3566.8	3765.6	3937.0	4108.3	4253.8
2788.8	22.5°	2727.6	2711.0	2866.9	3076.8	3286.7	3528.6	3770.5	3962.7	4154.9	4303.5
2656.3	25°	2585.8	2540.8	2700.7	2946.4	3192.3	3490.9	3789.7	4009.4	4229.0	4374.5
2529.9	27.5°	2461.8	2407.1	2552.6	2827.2	3101.7	3465.8	3829.8	4082.3	4334.8	4473.7
2406.8	30°	2352.8	2309.9	2432.0	2727.5	3023.0	3454.0	3884.7	4176.8	4468.8	4602.9
2289.2	32.5°	2257.3	2238.2	2336.6	2641.6	2946.4	3439.4	3932.1	4275.3	4618.6	4751.3
2175.8	35°	2167.1	2175.0	2257.0	2557.1	2857.2	3411.9	3966.9	4387.7	4808.4	4935.7
2062.8	37.5°	2072.5	2101.5	2173.2	2457.7	2742.2	3364.9	3987.5	4513.4	5039.4	5201.5
1947.0	40°	1969.0	2013.3	2078.4	2339.1	2599.8	3300.1	4000.5	4673.2	5345.6	5581.9
1829.8	42.5°	1859.0	1914.9	1974.8	2208.2	2441.5	3233.2	4025.2	4882.1	5738.9	6080.0
1721.2	45°	1749.6	1803.7	1864.4	2069.1	2273.8	3171.1	4068.6	5157.0	6245.4	6705.4
1628.2	47.5°	1652.0	1698.5	1776.9	1959.1	2141.3	3119.9	4098.4	5449.9	6801.5	7449.0
1544.9	50°	1566.1	1620.1	1723.2	1886.1	2048.9	3063.9	4078.9	5721.7	7364.4	8340.7
1481.1	52.5°	1502.0	1577.6	1696.1	1838.0	1979.9	2969.5	3959.2	5898.2	7837.0	9277.3
1434.9	55°	1468.0	1581.9	1692.1	1803.1	1914.0	2813.0	3711.9	5859.3	8006.6	10107.6
1399.4	57.5°	1447.6	1586.1	1683.4	1761.7	1840.1	2592.2	3344.2	5585.6	7827.0	10696.1
1366.0	60°	1428.4	1572.7	1636.9	1698.5	1760.2	2305.6	2851.1	5076.2	7301.2	10843.2
1328.0	62.5°	1406.0	1539.9	1547.8	1588.7	1629.6	1962.7	2295.7	4387.4	6479.1	10224.0
1275.9	65°	1358.8	1460.9	1460.0	1479.3	1498.6	1654.1	1809.5	3684.7	5559.9	9347.8
1205.7	67.5°	1274.7	1332.1	1334.8	1324.1	1313.3	1357.5	1401.6	2996.2	4590.9	8305.1
1118.9	70°	1168.0	1186.9	1186.9	1136.9	1086.8	1074.3	1061.7	2359.1	3656.6	7167.3
1015.5	72.5°	1049.1	1048.9	1037.0	966.1	895.2	857.0	818.9	1803.6	2788.2	5933.9
888.3	75°	914.2	918.9	863.9	784.4	704.9	670.4	635.9	1309.0	1982.1	4520.0
758.3	77.5°	779.1	781.5	691.0	613.8	536.6	513.0	489.6	887.0	1284.5	3163.6
607.6	80°	625.0	625.3	517.2	451.9	386.5	376.8	367.1	571.5	776.0	2038.3
451.2	82.5°	459.7	454.6	362.2	314.1	265.9	264.0	262.3	351.5	441.0	1179.7
293.5	85°	302.6	296.0	227.3	192.0	156.8	157.8	158.6	187.9	217.3	530.7
130.0	87.5°	133.7	125.2	96.6	82.2	67.8	68.7	69.5	77.9	86.3	173.8
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°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
3406.2	2.5°	3419.1	3432.1	3450.4	3468.8	3479.7	3490.7	3496.1	3501.6	3499.2	3501.6
3662.7	5°	3707.7	3753.0	3797.7	3842.5	3866.8	3891.2	3905.9	3920.7	3931.9	3920.7
3920.3	7.5°	3993.7	4067.0	4133.0	4199.0	4238.8	4278.5	4300.0	4321.4	4331.7	4321.4
4117.8	10°	4204.6	4291.4	4368.8	4446.2	4493.1	4539.8	4560.7	4581.5	4589.4	4581.5
4238.8	12.5°	4332.8	4426.8	4496.8	4566.6	4600.6	4634.6	4646.0	4657.5	4658.7	4657.5
4312.3	15°	4393.5	4474.6	4518.4	4562.4	4563.6	4564.9	4552.7	4540.6	4526.2	4540.6
4353.6	17.5°	4408.4	4463.2	4464.1	4464.8	4415.6	4366.4	4321.3	4276.1	4244.2	4276.1
4399.2	20°	4418.3	4437.5	4379.8	4322.0	4213.4	4104.7	4025.6	3946.5	3897.8	3946.5
4452.1	22.5°	4427.0	4402.0	4282.4	4162.8	4003.0	3843.1	3744.2	3645.3	3591.6	3645.3
4520.1	25°	4441.1	4362.1	4180.5	3999.0	3804.9	3610.8	3506.7	3402.9	3352.1	3402.9
4612.5	27.5°	4471.3	4329.9	4089.4	3849.0	3633.8	3418.7	3316.4	3214.2	3166.2	3214.2
4737.1	30°	4526.5	4315.9	4019.9	3723.8	3499.7	3275.5	3180.6	3085.7	3041.0	3085.7
4884.1	32.5°	4595.7	4307.4	3972.5	3637.5	3426.9	3216.2	3141.7	3067.1	3034.9	3067.1
5062.8	35°	4709.9	4357.0	4008.0	3659.0	3512.7	3366.5	3349.1	3331.7	3329.0	3331.7
5363.6	37.5°	4948.4	4533.3	4216.0	3898.8	3889.3	3879.9	3959.3	4038.8	4080.2	4038.8
5818.2	40°	5366.7	4915.1	4679.2	4443.3	4609.8	4776.3	4969.6	5162.8	5259.1	5162.8
6421.0	42.5°	5973.0	5525.0	5389.2	5253.3	5616.4	5979.6	6331.1	6682.6	6889.0	6682.6
7165.5	45°	6763.1	6360.5	6300.6	6240.6	6822.4	7404.3	7981.9	8559.6	8910.2	8559.6
8096.5	47.5°	7705.0	7313.4	7301.2	7289.1	8128.5	8967.6	9813.1	10658.6	11155.1	10658.6
9316.8	50°	8833.2	8349.7	8351.7	8353.8	9435.5	10517.2	11633.4	12749.5	13424.3	12749.5
10717.5	52.5°	10131.9	9546.5	9487.3	9428.0	10720.1	12012.2	13393.2	14774.0	15582.8	14774.0
12208.9	55°	11630.3	11051.8	10821.0	10590.2	12028.2	13466.2	15112.5	16758.8	17720.8	16758.8
13565.3	57.5°	13250.2	12935.1	12472.1	12009.3	13461.3	14913.4	16778.1	18642.7	19835.6	18642.7
14385.1	60°	14874.4	15363.8	14788.9	14214.0	15588.2	16962.3	18958.8	20955.2	22244.5	20955.2
13968.8	62.5°	15305.9	16642.9	16578.1	16513.2	17772.1	19031.0	20930.4	22829.8	24021.5	22829.8
13135.6	65°	14390.5	15645.4	15893.7	16141.9	17741.7	19341.5	21183.4	23025.1	24039.7	23025.1
12019.2	67.5°	13212.8	14406.3	14522.8	14639.1	16305.9	17972.6	19822.3	21672.1	22467.0	21672.1
10678.0	70°	11976.2	13274.5	13326.5	13378.7	14869.3	16359.7	17951.6	19543.3	19985.1	19543.3
9079.8	72.5°	10569.5	12059.4	12096.8	12134.1	13300.3	14466.5	15658.7	16850.8	16895.5	16850.8
7057.9	75°	8599.8	10141.7	10280.1	10418.5	11325.9	12233.2	13072.4	13911.6	13686.8	13911.6
5042.8	77.5°	6482.1	7921.5	8119.6	8317.7	9007.4	9697.2	10292.4	10887.7	10501.2	10887.7
3300.5	80°	4511.4	5722.2	5968.4	6214.7	6735.6	7256.3	7568.9	7881.4	7259.7	7881.4
1918.5	82.5°	2746.4	3574.3	3849.3	4124.5	4483.1	4841.6	4972.0	5102.3	4613.7	5102.3
844.1	85°	1283.5	1722.9	1956.8	2190.8	2485.4	2779.9	2853.9	2927.9	2536.6	2927.9
261.3	87.5°	409.0	556.7	687.2	817.7	965.0	1112.3	1118.7	1124.9	944.4	1124.9
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°
3167.4	0°	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4	3167.4
3496.1	2.5°	3490.7	3479.7	3468.8	3450.4	3432.1	3419.1	3406.2
3905.9	5°	3891.2	3866.8	3842.5	3797.7	3753.0	3707.7	3662.7
4300.0	7.5°	4278.5	4238.8	4199.0	4133.0	4067.0	3993.7	3920.3
4560.7	10°	4539.8	4493.1	4446.2	4368.8	4291.4	4204.6	4117.8
4646.0	12.5°	4634.6	4600.6	4566.6	4496.8	4426.8	4332.8	4238.8
4552.7	15°	4564.9	4563.6	4562.4	4518.4	4474.6	4393.5	4312.3
4321.3	17.5°	4366.4	4415.6	4464.8	4464.1	4463.2	4408.4	4353.6
4025.6	20°	4104.7	4213.4	4322.0	4379.8	4437.5	4418.3	4399.2
3744.2	22.5°	3843.1	4003.0	4162.8	4282.4	4402.0	4427.0	4452.1
3506.7	25°	3610.8	3804.9	3999.0	4180.5	4362.1	4441.1	4520.1
3316.4	27.5°	3418.7	3633.8	3849.0	4089.4	4329.9	4471.3	4612.5
3180.6	30°	3275.5	3499.7	3723.8	4019.9	4315.9	4526.5	4737.1
3141.7	32.5°	3216.2	3426.9	3637.5	3972.5	4307.4	4595.7	4884.1
3349.1	35°	3366.5	3512.7	3659.0	4008.0	4357.0	4709.9	5062.8
3959.3	37.5°	3879.9	3889.3	3898.8	4216.0	4533.3	4948.4	5363.6
4969.6	40°	4776.3	4609.8	4443.3	4679.2	4915.1	5366.7	5818.2
6331.1	42.5°	5979.6	5616.4	5253.3	5389.2	5525.0	5973.0	6421.0
7981.9	45°	7404.3	6822.4	6240.6	6300.6	6360.5	6763.1	7165.5
9813.1	47.5°	8967.6	8128.5	7289.1	7301.2	7313.4	7705.0	8096.5
11633.4	50°	10517.2	9435.5	8353.8	8351.7	8349.7	8833.2	9316.8
13393.2	52.5°	12012.2	10720.1	9428.0	9487.3	9546.5	10131.9	10717.5
15112.5	55°	13466.2	12028.2	10590.2	10821.0	11051.8	11630.3	12208.9
16778.1	57.5°	14913.4	13461.3	12009.3	12472.1	12935.1	13250.2	13565.3
18958.8	60°	16962.3	15588.2	14214.0	14788.9	15363.8	14874.4	14385.1
20930.4	62.5°	19031.0	17772.1	16513.2	16578.1	16642.9	15305.9	13968.8
21183.4	65°	19341.5	17741.7	16141.9	15893.7	15645.4	14390.5	13135.6
19822.3	67.5°	17972.6	16305.9	14639.1	14522.8	14406.3	13212.8	12019.2
17951.6	70°	16359.7	14869.3	13378.7	13326.5	13274.5	11976.2	10678.0
15658.7	72.5°	14466.5	13300.3	12134.1	12096.8	12059.4	10569.5	9079.8
13072.4	75°	12233.2	11325.9	10418.5	10280.1	10141.7	8599.8	7057.9
10292.4	77.5°	9697.2	9007.4	8317.7	8119.6	7921.5	6482.1	5042.8
7568.9	80°	7256.3	6735.6	6214.7	5968.4	5722.2	4511.4	3300.5
4972.0	82.5°	4841.6	4483.1	4124.5	3849.3	3574.3	2746.4	1918.5
2853.9	85°	2779.9	2485.4	2190.8	1956.8	1722.9	1283.5	844.1
1118.7	87.5°	1112.3	965.0	817.7	687.2	556.7	409.0	261.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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