

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: P949987

Luminaire Tested: **GALN-SB4C-827-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949987
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-SB4C-827-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26006 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

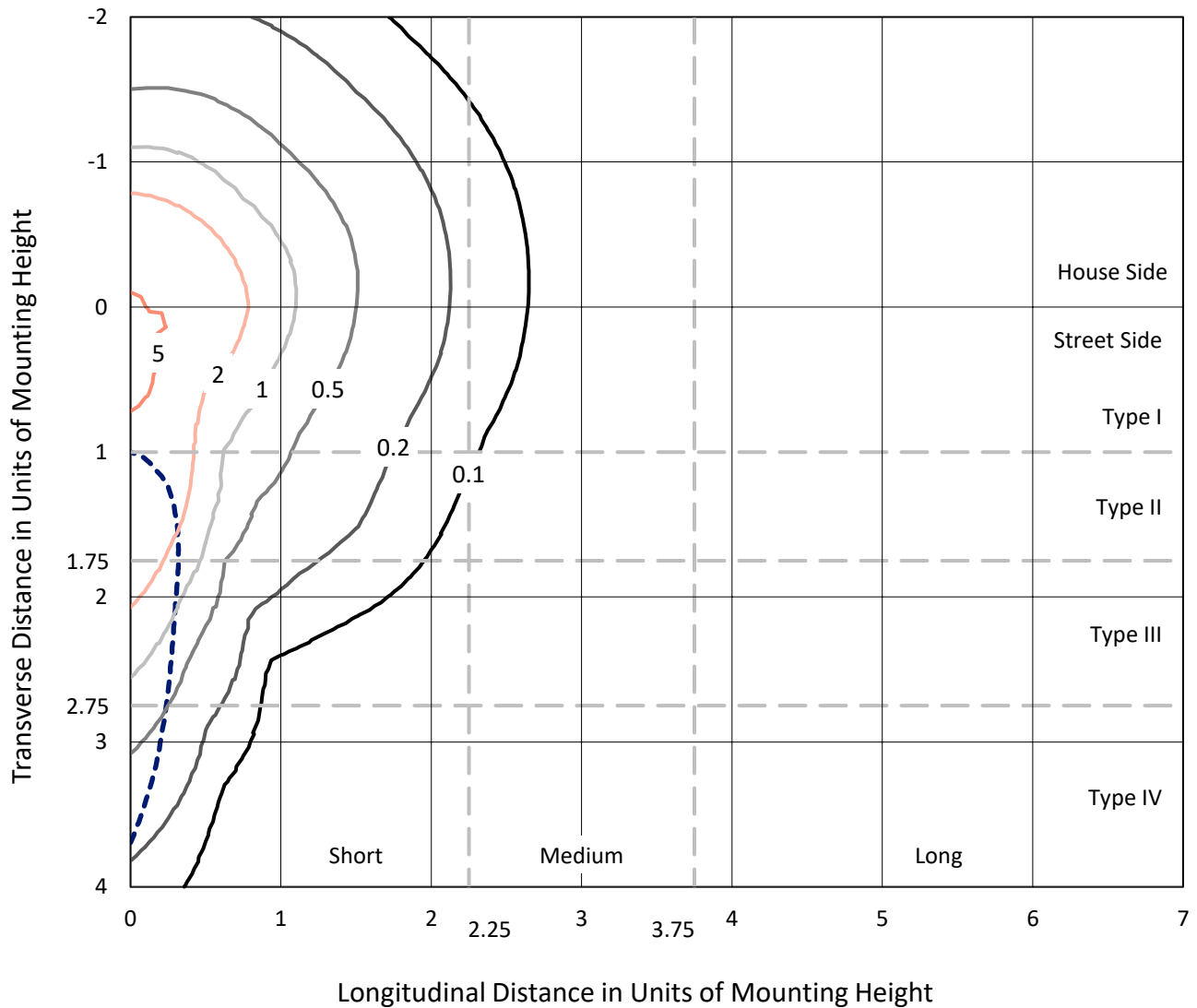
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

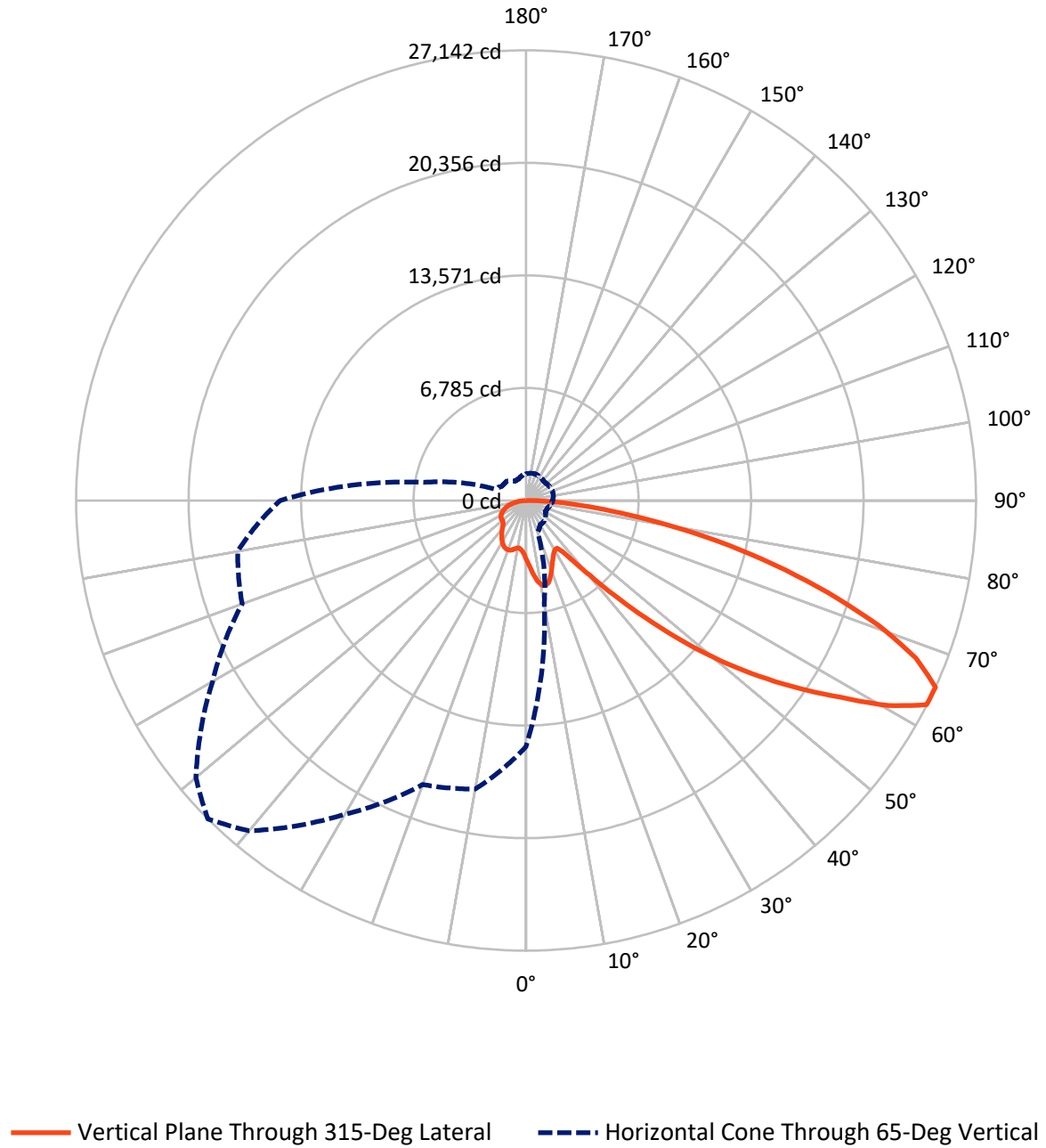
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6609.4	0.0	6609.4
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	19396.6	0.0	19396.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	26006.0	0.0	26006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	1.4
10°-20°	1113.6	4.3
20°-30°	1720.1	6.6
30°-40°	2179.8	8.4
40°-50°	3287.8	12.6
50°-60°	5311.9	20.4
60°-70°	6622.1	25.5
70°-80°	4342.4	16.7
80°-90°	1073.6	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°	26006.0	100.0
0°-180°	26006.0	100.0



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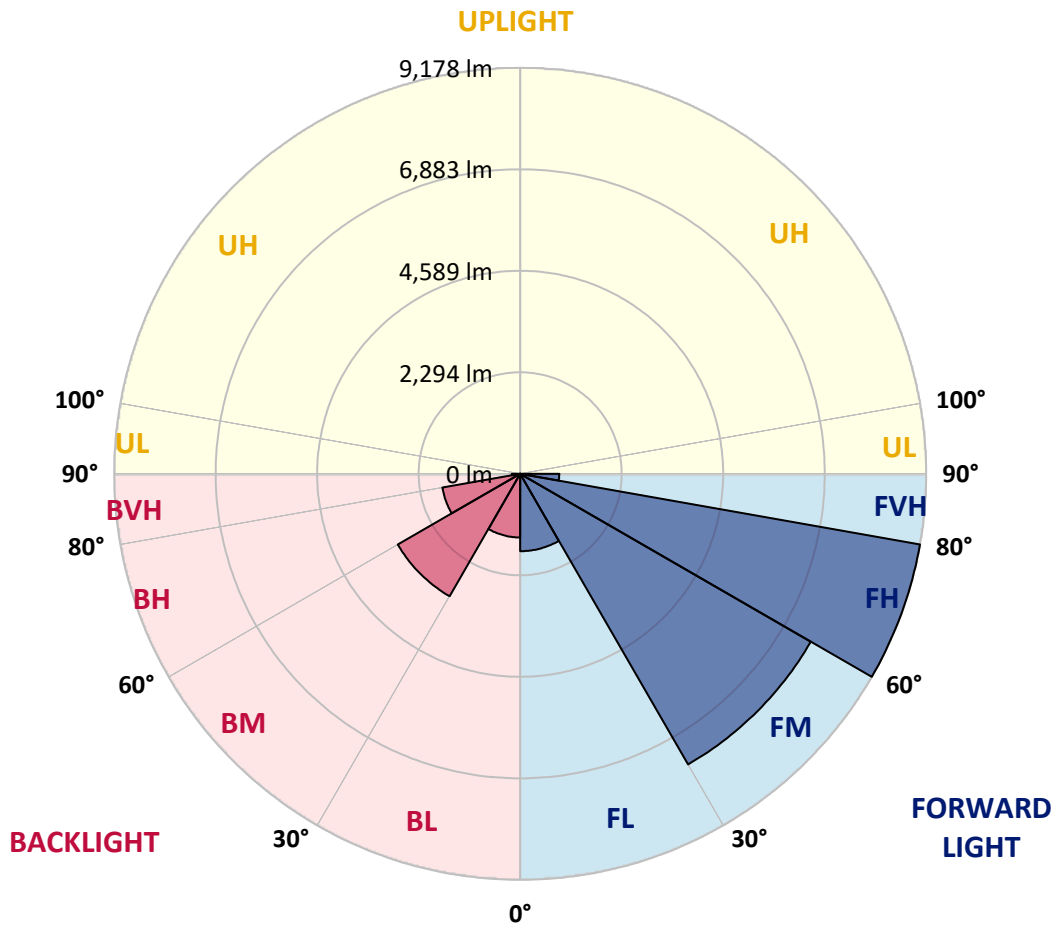
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.2	6.7			
FM (30°-60°)	7585.4	29.2			
FH (60°-80°)	9177.6	35.3			G4/12000
FVH (80°-90°)	884.4	3.4			G5
BL (0°-30°)	1439.3	5.5	B3/2500		
BM (30°-60°)	3194.1	12.3	B3/5000		
BH (60°-80°)	1786.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	189.2	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°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
2.5°	3845.7	3816.2	3786.7	3755.3	3724.0	3692.4	3660.9	3630.7	3600.5	3571.2
5°	4135.2	4070.1	4004.9	3939.8	3874.9	3809.5	3744.1	3683.1	3622.0	3564.4
7.5°	4426.1	4318.6	4211.1	4111.8	4012.4	3915.7	3818.9	3733.7	3648.5	3569.9
10°	4649.1	4513.1	4377.2	4245.8	4114.7	3997.2	3879.6	3778.9	3677.9	3580.9
12.5°	4785.7	4636.2	4486.9	4338.2	4189.4	4050.8	3912.2	3798.2	3684.2	3582.2
15°	4868.7	4712.9	4557.2	4395.8	4234.4	4074.9	3915.3	3783.3	3651.2	3538.3
17.5°	4915.4	4757.4	4599.5	4423.4	4247.3	4062.1	3876.8	3718.1	3559.3	3426.5
20°	4966.8	4802.7	4638.4	4444.9	4251.5	4027.0	3802.5	3605.7	3408.9	3254.3
22.5°	5026.5	4858.8	4691.0	4474.0	4257.0	3983.9	3710.8	3473.8	3236.8	3060.8
25°	5103.3	4939.0	4774.7	4526.7	4278.6	3941.3	3604.2	3326.6	3049.1	2868.7
27.5°	5207.6	5050.9	4894.1	4609.1	4323.9	3912.9	3501.9	3192.0	2882.0	2717.7
30°	5348.3	5196.8	5045.4	4715.7	4385.9	3899.6	3413.0	3079.4	2745.8	2607.9
32.5°	5514.3	5364.3	5214.5	4827.0	4439.5	3883.2	3326.6	2982.4	2638.1	2527.0
35°	5716.1	5572.5	5428.8	4953.8	4478.7	3852.1	3225.9	2887.0	2548.2	2455.6
37.5°	6055.7	5872.6	5689.6	5095.8	4502.0	3799.0	3096.0	2774.8	2453.6	2372.6
40°	6568.9	6302.1	6035.4	5276.1	4516.7	3725.9	2935.2	2640.9	2346.5	2273.1
42.5°	7249.5	6864.5	6479.4	5512.0	4544.6	3650.4	2756.5	2493.1	2229.6	2162.0
45°	8090.0	7570.6	7051.2	5822.4	4593.6	3580.3	2567.2	2336.1	2105.0	2036.4
47.5°	9141.2	8410.2	7679.0	6153.1	4627.2	3522.4	2417.6	2211.9	2006.2	1917.7
50°	10518.9	9416.8	8314.7	6459.9	4605.2	3459.3	2313.3	2129.4	1945.6	1829.2
52.5°	12100.4	10474.3	8848.2	6659.2	4470.1	3352.6	2235.4	2075.1	1915.0	1781.2
55°	13784.1	11411.8	9039.6	6615.3	4190.8	3175.9	2161.0	2035.7	1910.4	1786.0
57.5°	15315.5	12076.2	8836.9	6306.3	3775.7	2926.7	2077.6	1989.1	1900.5	1790.8
60°	16241.1	12242.3	8243.3	5731.1	3219.0	2603.1	1987.3	1917.7	1848.1	1775.7
62.5°	15771.1	11543.1	7315.1	4953.5	2591.9	2215.9	1839.9	1793.7	1747.5	1738.6
65°	14830.4	10553.9	6277.3	4160.1	2043.0	1867.5	1692.0	1670.1	1648.3	1649.4
67.5°	13570.0	9376.6	5183.2	3382.8	1582.5	1532.7	1482.7	1494.9	1507.0	1504.0
70°	12055.8	8092.1	4128.4	2663.5	1198.6	1212.9	1227.1	1283.6	1340.0	1340.0
72.5°	10251.3	6699.5	3147.9	2036.3	924.6	967.6	1010.7	1090.8	1170.8	1184.2
75°	7968.6	5103.2	2237.8	1477.9	718.0	756.9	795.9	885.6	975.4	1037.4
77.5°	5693.4	3571.8	1450.2	1001.5	552.7	579.2	605.8	693.0	780.1	882.3
80°	3726.3	2301.2	876.2	645.2	414.4	425.4	436.4	510.2	583.9	706.0
82.5°	2166.1	1331.9	497.8	396.9	296.1	298.0	300.2	354.6	408.9	513.2
85°	953.0	599.1	245.4	212.1	179.1	178.1	177.0	216.8	256.6	334.1
87.5°	295.0	196.2	97.4	88.0	78.5	77.5	76.6	92.8	109.1	141.3
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°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3538.7	2.5°	3512.4	3486.2	3462.4	3438.8	3418.1	3397.4	3376.5	3355.8	3339.7	3323.6
3507.4	5°	3457.8	3407.9	3366.2	3324.7	3287.9	3251.1	3217.8	3184.3	3158.6	3132.8
3496.2	7.5°	3430.0	3364.0	3309.1	3254.3	3208.0	3161.6	3120.7	3080.0	3049.4	3018.9
3501.7	10°	3432.0	3362.3	3307.4	3252.5	3202.7	3152.7	3106.7	3060.8	3024.3	2987.6
3508.5	12.5°	3451.4	3394.6	3358.1	3321.9	3282.7	3243.7	3196.1	3148.6	3101.9	3055.3
3479.3	15°	3452.0	3424.8	3429.8	3434.7	3424.6	3414.4	3373.1	3331.8	3265.4	3199.0
3390.1	17.5°	3400.1	3410.0	3469.8	3529.7	3561.5	3593.2	3559.9	3526.6	3438.7	3350.7
3244.7	20°	3291.3	3338.0	3441.8	3545.9	3612.4	3679.0	3663.6	3648.1	3547.5	3447.1
3079.6	22.5°	3148.6	3217.6	3336.2	3455.0	3541.6	3628.2	3637.5	3646.7	3550.7	3454.6
2919.4	25°	2999.0	3078.6	3185.2	3292.0	3377.2	3462.4	3494.3	3526.0	3447.2	3368.6
2779.5	27.5°	2856.3	2933.2	3020.8	3108.4	3176.7	3245.1	3280.5	3316.0	3259.9	3203.9
2656.4	30°	2717.3	2778.5	2851.2	2924.0	2980.6	3037.4	3066.3	3095.1	3052.4	3009.6
2548.5	32.5°	2584.6	2620.7	2678.7	2736.9	2791.3	2845.7	2877.7	2909.8	2870.6	2831.2
2446.7	35°	2456.6	2466.6	2510.9	2555.1	2608.9	2662.8	2701.2	2739.7	2711.7	2683.8
2339.9	37.5°	2329.0	2318.0	2349.8	2381.5	2435.2	2489.0	2536.4	2583.9	2571.0	2558.1
2223.0	40°	2198.2	2173.3	2196.3	2219.2	2271.1	2322.9	2377.5	2432.3	2435.4	2438.5
2098.8	42.5°	2065.9	2033.0	2051.6	2070.4	2119.6	2168.8	2227.8	2286.8	2302.6	2318.4
1975.3	45°	1943.2	1911.3	1926.9	1942.8	1989.5	2036.1	2097.3	2158.5	2181.2	2203.8
1865.1	47.5°	1838.2	1811.4	1826.2	1840.9	1886.6	1932.1	1992.5	2052.9	2078.9	2105.0
1768.1	50°	1744.3	1720.5	1743.6	1766.8	1809.8	1852.8	1906.9	1960.9	1994.4	2027.9
1695.8	52.5°	1672.2	1648.7	1683.5	1718.0	1757.6	1796.9	1847.3	1897.8	1937.5	1977.1
1657.4	55°	1620.1	1582.9	1632.1	1681.3	1723.8	1766.3	1810.5	1854.6	1896.6	1938.7
1634.3	57.5°	1580.0	1525.7	1578.6	1631.6	1681.5	1731.5	1775.1	1818.9	1861.3	1903.6
1612.7	60°	1542.3	1471.7	1518.2	1564.6	1622.0	1679.3	1723.7	1768.1	1810.7	1853.2
1587.4	62.5°	1499.3	1411.3	1440.8	1470.4	1537.2	1604.1	1651.5	1698.8	1737.8	1776.8
1534.2	65°	1440.6	1346.9	1358.2	1369.5	1441.1	1512.9	1558.2	1603.5	1637.8	1672.1
1439.2	67.5°	1361.3	1283.3	1279.7	1276.2	1342.3	1408.6	1451.6	1494.4	1524.0	1553.6
1318.7	70°	1263.3	1207.8	1195.5	1183.1	1241.3	1299.5	1336.6	1373.6	1400.4	1427.1
1184.5	72.5°	1146.5	1108.5	1090.4	1072.4	1118.2	1163.9	1197.4	1230.9	1257.1	1283.3
1032.2	75°	1003.0	973.6	956.3	938.9	972.9	1006.9	1037.3	1067.6	1091.5	1115.4
879.6	77.5°	856.1	832.7	815.1	797.5	825.3	852.8	878.9	905.0	930.1	955.1
705.6	80°	686.0	666.2	651.5	636.7	659.8	682.7	704.6	726.6	745.7	764.6
519.0	82.5°	509.4	499.8	489.3	478.9	477.0	475.1	467.4	459.7	500.3	540.9
341.7	85°	331.4	321.1	309.4	297.8	287.9	277.9	256.6	235.3	273.3	311.5
150.9	87.5°	146.8	142.7	140.5	138.3	137.9	137.5	121.3	105.0	120.9	136.9
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3310.5	2.5°	3297.5	3287.3	3277.2	3267.8	3258.4	3246.7	3258.4	3267.8	3277.2	3287.3
3114.8	5°	3096.9	3084.1	3071.3	3061.6	3051.9	3042.2	3051.9	3061.6	3071.3	3084.1
2997.5	7.5°	2976.1	2961.4	2946.9	2938.1	2929.5	2922.9	2929.5	2938.1	2946.9	2961.4
2963.8	10°	2939.6	2925.7	2911.9	2904.5	2897.1	2894.0	2897.1	2904.5	2911.9	2925.7
3024.4	12.5°	2993.5	2978.0	2962.7	2956.3	2950.0	2948.9	2950.0	2956.3	2962.7	2978.0
3152.0	15°	3105.1	3083.6	3062.1	3053.9	3045.7	3045.0	3045.7	3053.9	3062.1	3083.6
3281.6	17.5°	3212.4	3180.6	3148.6	3138.2	3127.6	3126.0	3127.6	3138.2	3148.6	3180.6
3362.3	20°	3277.6	3236.8	3195.9	3182.9	3169.9	3165.8	3169.9	3182.9	3195.9	3236.8
3367.3	22.5°	3279.9	3237.0	3193.9	3179.5	3165.1	3158.9	3165.1	3179.5	3193.9	3237.0
3290.9	25°	3213.5	3176.2	3139.0	3125.4	3112.0	3104.0	3112.0	3125.4	3139.0	3176.2
3143.7	27.5°	3083.4	3058.4	3033.3	3027.2	3021.0	3018.9	3021.0	3027.2	3033.3	3058.4
2966.5	30°	2923.1	2910.4	2897.5	2897.5	2897.5	2899.5	2897.5	2897.5	2897.5	2910.4
2796.8	32.5°	2762.3	2753.9	2745.6	2746.7	2747.9	2750.0	2747.9	2746.7	2745.6	2753.9
2652.0	35°	2620.3	2607.5	2594.9	2592.2	2589.4	2588.0	2589.4	2592.2	2594.9	2607.5
2528.9	37.5°	2499.5	2476.3	2453.3	2441.1	2428.9	2422.0	2428.9	2441.1	2453.3	2476.3
2413.6	40°	2388.8	2355.0	2321.6	2298.8	2276.3	2262.8	2276.3	2298.8	2321.6	2355.0
2297.4	42.5°	2276.5	2234.7	2192.8	2159.8	2126.7	2105.0	2126.7	2159.8	2192.8	2234.7
2184.9	45°	2166.1	2118.2	2070.4	2031.6	1992.8	1967.8	1992.8	2031.6	2070.4	2118.2
2091.8	47.5°	2078.7	2036.1	1993.6	1957.6	1921.8	1897.8	1921.8	1957.6	1993.6	2036.1
2027.1	50°	2026.5	1992.5	1958.5	1925.2	1892.0	1869.0	1892.0	1925.2	1958.5	1992.5
1984.3	52.5°	1991.4	1963.7	1936.0	1906.2	1876.5	1855.3	1876.5	1906.2	1936.0	1963.7
1948.6	55°	1958.5	1934.3	1910.2	1884.1	1858.0	1838.8	1858.0	1884.1	1910.2	1934.3
1913.6	57.5°	1923.6	1899.2	1874.7	1849.0	1823.0	1803.1	1823.0	1849.0	1874.7	1899.2
1864.2	60°	1875.2	1851.3	1827.5	1800.9	1774.3	1753.7	1774.3	1800.9	1827.5	1851.3
1787.3	62.5°	1797.9	1776.4	1754.8	1726.8	1698.8	1674.1	1698.8	1726.8	1754.8	1776.4
1682.9	65°	1693.6	1672.9	1652.2	1625.0	1598.0	1576.7	1598.0	1625.0	1652.2	1672.9
1564.2	67.5°	1574.6	1555.6	1536.6	1511.4	1486.1	1466.9	1486.1	1511.4	1536.6	1555.6
1437.3	70°	1447.4	1431.9	1416.4	1392.3	1368.1	1346.2	1368.1	1392.3	1416.4	1431.9
1295.4	72.5°	1307.5	1294.6	1281.7	1258.6	1235.7	1214.4	1235.7	1258.6	1281.7	1294.6
1128.0	75°	1140.6	1134.3	1128.0	1108.6	1089.3	1069.0	1089.3	1108.6	1128.0	1134.3
966.9	77.5°	978.7	969.9	960.8	941.4	921.9	905.7	921.9	941.4	960.8	969.9
780.3	80°	795.9	792.1	788.4	762.1	735.8	705.3	735.8	762.1	788.4	792.1
567.6	82.5°	594.2	592.5	590.7	568.7	546.4	526.9	546.4	568.7	590.7	592.5
344.4	85°	377.4	374.6	371.9	354.6	337.3	319.7	337.3	354.6	371.9	374.6
150.3	87.5°	163.6	160.3	156.7	147.9	138.9	130.4	138.9	147.9	156.7	160.3
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3297.5	2.5°	3310.5	3323.6	3339.7	3355.8	3376.5	3397.4	3418.1	3438.8	3462.4	3486.2
3096.9	5°	3114.8	3132.8	3158.6	3184.3	3217.8	3251.1	3287.9	3324.7	3366.2	3407.9
2976.1	7.5°	2997.5	3018.9	3049.4	3080.0	3120.7	3161.6	3208.0	3254.3	3309.1	3364.0
2939.6	10°	2963.8	2987.6	3024.3	3060.8	3106.7	3152.7	3202.7	3252.5	3307.4	3362.3
2993.5	12.5°	3024.4	3055.3	3101.9	3148.6	3196.1	3243.7	3282.7	3321.9	3358.1	3394.6
3105.1	15°	3152.0	3199.0	3265.4	3331.8	3373.1	3414.4	3424.6	3434.7	3429.8	3424.8
3212.4	17.5°	3281.6	3350.7	3438.7	3526.6	3559.9	3593.2	3561.5	3529.7	3469.8	3410.0
3277.6	20°	3362.3	3447.1	3547.5	3648.1	3663.6	3679.0	3612.4	3545.9	3441.8	3338.0
3279.9	22.5°	3367.3	3454.6	3550.7	3646.7	3637.5	3628.2	3541.6	3455.0	3336.2	3217.6
3213.5	25°	3290.9	3368.6	3447.2	3526.0	3494.3	3462.4	3377.2	3292.0	3185.2	3078.6
3083.4	27.5°	3143.7	3203.9	3259.9	3316.0	3280.5	3245.1	3176.7	3108.4	3020.8	2933.2
2923.1	30°	2966.5	3009.6	3052.4	3095.1	3066.3	3037.4	2980.6	2924.0	2851.2	2778.5
2762.3	32.5°	2796.8	2831.2	2870.6	2909.8	2877.7	2845.7	2791.3	2736.9	2678.7	2620.7
2620.3	35°	2652.0	2683.8	2711.7	2739.7	2701.2	2662.8	2608.9	2555.1	2510.9	2466.6
2499.5	37.5°	2528.9	2558.1	2571.0	2583.9	2536.4	2489.0	2435.2	2381.5	2349.8	2318.0
2388.8	40°	2413.6	2438.5	2435.4	2432.3	2377.5	2322.9	2271.1	2219.2	2196.3	2173.3
2276.5	42.5°	2297.4	2318.4	2302.6	2286.8	2227.8	2168.8	2119.6	2070.4	2051.6	2033.0
2166.1	45°	2184.9	2203.8	2181.2	2158.5	2097.3	2036.1	1989.5	1942.8	1926.9	1911.3
2078.7	47.5°	2091.8	2105.0	2078.9	2052.9	1992.5	1932.1	1886.6	1840.9	1826.2	1811.4
2026.5	50°	2027.1	2027.9	1994.4	1960.9	1906.9	1852.8	1809.8	1766.8	1743.6	1720.5
1991.4	52.5°	1984.3	1977.1	1937.5	1897.8	1847.3	1796.9	1757.6	1718.0	1683.5	1648.7
1958.5	55°	1948.6	1938.7	1896.6	1854.6	1810.5	1766.3	1723.8	1681.3	1632.1	1582.9
1923.6	57.5°	1913.6	1903.6	1861.3	1818.9	1775.1	1731.5	1681.5	1631.6	1578.6	1525.7
1875.2	60°	1864.2	1853.2	1810.7	1768.1	1723.7	1679.3	1622.0	1564.6	1518.2	1471.7
1797.9	62.5°	1787.3	1776.8	1737.8	1698.8	1651.5	1604.1	1537.2	1470.4	1440.8	1411.3
1693.6	65°	1682.9	1672.1	1637.8	1603.5	1558.2	1512.9	1441.1	1369.5	1358.2	1346.9
1574.6	67.5°	1564.2	1553.6	1524.0	1494.4	1451.6	1408.6	1342.3	1276.2	1279.7	1283.3
1447.4	70°	1437.3	1427.1	1400.4	1373.6	1336.6	1299.5	1241.3	1183.1	1195.5	1207.8
1307.5	72.5°	1295.4	1283.3	1257.1	1230.9	1197.4	1163.9	1118.2	1072.4	1090.4	1108.5
1140.6	75°	1128.0	1115.4	1091.5	1067.6	1037.3	1006.9	972.9	938.9	956.3	973.6
978.7	77.5°	966.9	955.1	930.1	905.0	878.9	852.8	825.3	797.5	815.1	832.7
795.9	80°	780.3	764.6	745.7	726.6	704.6	682.7	659.8	636.7	651.5	666.2
594.2	82.5°	567.6	540.9	500.3	459.7	467.4	475.1	477.0	478.9	489.3	499.8
377.4	85°	344.4	311.5	273.3	235.3	256.6	277.9	287.9	297.8	309.4	321.1
163.6	87.5°	150.3	136.9	120.9	105.0	121.3	137.5	137.9	138.3	140.5	142.7
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3512.4	2.5°	3538.7	3571.2	3600.5	3630.7	3660.9	3692.4	3724.0	3755.3	3786.7	3816.2
3457.8	5°	3507.4	3564.4	3622.0	3683.1	3744.1	3809.5	3874.9	3939.8	4004.9	4070.1
3430.0	7.5°	3496.2	3569.9	3648.5	3733.7	3818.9	3915.7	4012.4	4111.8	4211.1	4318.6
3432.0	10°	3501.7	3580.9	3677.9	3778.9	3879.6	3997.2	4114.7	4245.8	4377.2	4513.1
3451.4	12.5°	3508.5	3582.2	3684.2	3798.2	3912.2	4050.8	4189.4	4338.2	4486.9	4636.2
3452.0	15°	3479.3	3538.3	3651.2	3783.3	3915.3	4074.9	4234.4	4395.8	4557.2	4712.9
3400.1	17.5°	3390.1	3426.5	3559.3	3718.1	3876.8	4062.1	4247.3	4423.4	4599.5	4757.4
3291.3	20°	3244.7	3254.3	3408.9	3605.7	3802.5	4027.0	4251.5	4444.9	4638.4	4802.7
3148.6	22.5°	3079.6	3060.8	3236.8	3473.8	3710.8	3983.9	4257.0	4474.0	4691.0	4858.8
2999.0	25°	2919.4	2868.7	3049.1	3326.6	3604.2	3941.3	4278.6	4526.7	4774.7	4939.0
2856.3	27.5°	2779.5	2717.7	2882.0	3192.0	3501.9	3912.9	4323.9	4609.1	4894.1	5050.9
2717.3	30°	2656.4	2607.9	2745.8	3079.4	3413.0	3899.6	4385.9	4715.7	5045.4	5196.8
2584.6	32.5°	2548.5	2527.0	2638.1	2982.4	3326.6	3883.2	4439.5	4827.0	5214.5	5364.3
2456.6	35°	2446.7	2455.6	2548.2	2887.0	3225.9	3852.1	4478.7	4953.8	5428.8	5572.5
2329.0	37.5°	2339.9	2372.6	2453.6	2774.8	3096.0	3799.0	4502.0	5095.8	5689.6	5872.6
2198.2	40°	2223.0	2273.1	2346.5	2640.9	2935.2	3725.9	4516.7	5276.1	6035.4	6302.1
2065.9	42.5°	2098.8	2162.0	2229.6	2493.1	2756.5	3650.4	4544.6	5512.0	6479.4	6864.5
1943.2	45°	1975.3	2036.4	2105.0	2336.1	2567.2	3580.3	4593.6	5822.4	7051.2	7570.6
1838.2	47.5°	1865.1	1917.7	2006.2	2211.9	2417.6	3522.4	4627.2	6153.1	7679.0	8410.2
1744.3	50°	1768.1	1829.2	1945.6	2129.4	2313.3	3459.3	4605.2	6459.9	8314.7	9416.8
1672.2	52.5°	1695.8	1781.2	1915.0	2075.1	2235.4	3352.6	4470.1	6659.2	8848.2	10474.3
1620.1	55°	1657.4	1786.0	1910.4	2035.7	2161.0	3175.9	4190.8	6615.3	9039.6	11411.8
1580.0	57.5°	1634.3	1790.8	1900.5	1989.1	2077.6	2926.7	3775.7	6306.3	8836.9	12076.2
1542.3	60°	1612.7	1775.7	1848.1	1917.7	1987.3	2603.1	3219.0	5731.1	8243.3	12242.3
1499.3	62.5°	1587.4	1738.6	1747.5	1793.7	1839.9	2215.9	2591.9	4953.5	7315.1	11543.1
1440.6	65°	1534.2	1649.4	1648.3	1670.1	1692.0	1867.5	2043.0	4160.1	6277.3	10553.9
1361.3	67.5°	1439.2	1504.0	1507.0	1494.9	1482.7	1532.7	1582.5	3382.8	5183.2	9376.6
1263.3	70°	1318.7	1340.0	1340.0	1283.6	1227.1	1212.9	1198.6	2663.5	4128.4	8092.1
1146.5	72.5°	1184.5	1184.2	1170.8	1090.8	1010.7	967.6	924.6	2036.3	3147.9	6699.5
1003.0	75°	1032.2	1037.4	975.4	885.6	795.9	756.9	718.0	1477.9	2237.8	5103.2
856.1	77.5°	879.6	882.3	780.1	693.0	605.8	579.2	552.7	1001.5	1450.2	3571.8
686.0	80°	705.6	706.0	583.9	510.2	436.4	425.4	414.4	645.2	876.2	2301.2
509.4	82.5°	519.0	513.2	408.9	354.6	300.2	298.0	296.1	396.9	497.8	1331.9
331.4	85°	341.7	334.1	256.6	216.8	177.0	178.1	179.1	212.1	245.4	599.1
146.8	87.5°	150.9	141.3	109.1	92.8	76.6	77.5	78.5	88.0	97.4	196.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3845.7	2.5°	3860.2	3874.9	3895.6	3916.4	3928.7	3941.1	3947.2	3953.4	3950.7	3953.4
4135.2	5°	4186.1	4237.2	4287.7	4338.3	4365.8	4393.2	4409.8	4426.6	4439.2	4426.6
4426.1	7.5°	4509.0	4591.8	4666.3	4740.8	4785.7	4830.5	4854.8	4879.0	4890.7	4879.0
4649.1	10°	4747.1	4845.1	4932.5	5019.9	5072.9	5125.6	5149.2	5172.6	5181.6	5172.6
4785.7	12.5°	4891.9	4998.0	5077.0	5155.8	5194.2	5232.6	5245.5	5258.4	5259.8	5258.4
4868.7	15°	4960.4	5051.9	5101.4	5151.1	5152.5	5153.8	5140.1	5126.4	5110.2	5126.4
4915.4	17.5°	4977.2	5039.1	5040.1	5040.9	4985.3	4929.8	4878.9	4827.8	4791.9	4827.8
4966.8	20°	4988.4	5010.0	4944.9	4879.7	4757.0	4634.3	4545.0	4455.7	4400.8	4455.7
5026.5	22.5°	4998.2	4970.0	4834.9	4699.9	4519.5	4339.0	4227.3	4115.6	4055.0	4115.6
5103.3	25°	5014.2	4925.0	4719.9	4514.9	4295.8	4076.6	3959.2	3842.0	3784.6	3842.0
5207.6	27.5°	5048.2	4888.6	4617.0	4345.6	4102.7	3859.8	3744.3	3628.9	3574.7	3628.9
5348.3	30°	5110.5	4872.8	4538.5	4204.3	3951.2	3698.2	3591.0	3483.8	3433.3	3483.8
5514.3	32.5°	5188.7	4863.2	4485.0	4106.8	3869.0	3631.2	3547.1	3462.8	3426.5	3462.8
5716.1	35°	5317.6	4919.2	4525.1	4131.1	3965.9	3800.8	3781.2	3761.6	3758.6	3761.6
6055.7	37.5°	5586.9	5118.2	4760.0	4401.9	4391.2	4380.5	4470.2	4559.9	4606.6	4559.9
6568.9	40°	6059.1	5549.3	5283.0	5016.6	5204.6	5392.6	5610.8	5829.0	5937.7	5829.0
7249.5	42.5°	6743.7	6237.9	6084.5	5931.1	6341.1	6751.1	7148.0	7544.8	7777.8	7544.8
8090.0	45°	7635.7	7181.2	7113.5	7045.7	7702.6	8359.7	9011.8	9664.0	10059.9	9664.0
9141.2	47.5°	8699.2	8257.0	8243.3	8229.6	9177.2	10124.6	11079.3	12033.8	12594.4	12033.8
10518.9	50°	9972.9	9427.0	9429.3	9431.7	10652.9	11874.2	13134.4	14394.5	15156.4	14394.5
12100.4	52.5°	11439.2	10778.2	10711.4	10644.4	12103.3	13562.1	15121.2	16680.2	17593.4	16680.2
13784.1	55°	13130.9	12477.7	12217.2	11956.6	13580.2	15203.7	17062.4	18921.1	20007.2	18921.1
15315.5	57.5°	14959.9	14604.0	14081.3	13558.8	15198.2	16837.6	18942.9	21048.1	22394.9	21048.1
16241.1	60°	16793.6	17346.2	16697.1	16048.0	17599.5	19150.9	21405.0	23659.0	25114.7	23659.0
15771.1	62.5°	17280.7	18790.3	18717.2	18643.9	20065.1	21486.5	23631.0	25775.4	27120.9	25775.4
14830.4	65°	16247.3	17664.1	17944.5	18224.7	20030.8	21837.1	23916.6	25995.9	27141.5	25995.9
13570.0	67.5°	14917.6	16265.1	16396.6	16527.9	18409.8	20291.5	22379.9	24468.4	25365.8	24468.4
12055.8	70°	13521.5	14987.3	15046.0	15104.9	16787.8	18470.6	20267.8	22064.9	22563.7	22064.9
10251.3	72.5°	11933.2	13615.3	13657.6	13699.7	15016.4	16333.0	17679.1	19025.0	19075.5	19025.0
7968.6	75°	9709.4	11450.2	11606.5	11762.8	12787.2	13811.6	14759.1	15706.6	15452.8	15706.6
5693.4	77.5°	7318.4	8943.6	9167.2	9390.9	10169.6	10948.4	11620.4	12292.5	11856.1	12292.5
3726.3	80°	5093.5	6460.5	6738.5	7016.5	7604.7	8192.5	8545.5	8898.3	8196.4	8898.3
2166.1	82.5°	3100.7	4035.5	4346.0	4656.7	5061.5	5466.3	5613.5	5760.6	5209.0	5760.6
953.0	85°	1449.1	1945.1	2209.3	2473.5	2806.1	3138.6	3222.1	3305.7	2863.9	3305.7
295.0	87.5°	461.8	628.5	775.9	923.2	1089.6	1255.9	1263.0	1270.0	1066.2	1270.0
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):

325°		330°	335°	340°	345°	350°	355°	360°
3576.0	0°	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0	3576.0
3947.2	2.5°	3941.1	3928.7	3916.4	3895.6	3874.9	3860.2	3845.7
4409.8	5°	4393.2	4365.8	4338.3	4287.7	4237.2	4186.1	4135.2
4854.8	7.5°	4830.5	4785.7	4740.8	4666.3	4591.8	4509.0	4426.1
5149.2	10°	5125.6	5072.9	5019.9	4932.5	4845.1	4747.1	4649.1
5245.5	12.5°	5232.6	5194.2	5155.8	5077.0	4998.0	4891.9	4785.7
5140.1	15°	5153.8	5152.5	5151.1	5101.4	5051.9	4960.4	4868.7
4878.9	17.5°	4929.8	4985.3	5040.9	5040.1	5039.1	4977.2	4915.4
4545.0	20°	4634.3	4757.0	4879.7	4944.9	5010.0	4988.4	4966.8
4227.3	22.5°	4339.0	4519.5	4699.9	4834.9	4970.0	4998.2	5026.5
3959.2	25°	4076.6	4295.8	4514.9	4719.9	4925.0	5014.2	5103.3
3744.3	27.5°	3859.8	4102.7	4345.6	4617.0	4888.6	5048.2	5207.6
3591.0	30°	3698.2	3951.2	4204.3	4538.5	4872.8	5110.5	5348.3
3547.1	32.5°	3631.2	3869.0	4106.8	4485.0	4863.2	5188.7	5514.3
3781.2	35°	3800.8	3965.9	4131.1	4525.1	4919.2	5317.6	5716.1
4470.2	37.5°	4380.5	4391.2	4401.9	4760.0	5118.2	5586.9	6055.7
5610.8	40°	5392.6	5204.6	5016.6	5283.0	5549.3	6059.1	6568.9
7148.0	42.5°	6751.1	6341.1	5931.1	6084.5	6237.9	6743.7	7249.5
9011.8	45°	8359.7	7702.6	7045.7	7113.5	7181.2	7635.7	8090.0
11079.3	47.5°	10124.6	9177.2	8229.6	8243.3	8257.0	8699.2	9141.2
13134.4	50°	11874.2	10652.9	9431.7	9429.3	9427.0	9972.9	10518.9
15121.2	52.5°	13562.1	12103.3	10644.4	10711.4	10778.2	11439.2	12100.4
17062.4	55°	15203.7	13580.2	11956.6	12217.2	12477.7	13130.9	13784.1
18942.9	57.5°	16837.6	15198.2	13558.8	14081.3	14604.0	14959.9	15315.5
21405.0	60°	19150.9	17599.5	16048.0	16697.1	17346.2	16793.6	16241.1
23631.0	62.5°	21486.5	20065.1	18643.9	18717.2	18790.3	17280.7	15771.1
23916.6	65°	21837.1	20030.8	18224.7	17944.5	17664.1	16247.3	14830.4
22379.9	67.5°	20291.5	18409.8	16527.9	16396.6	16265.1	14917.6	13570.0
20267.8	70°	18470.6	16787.8	15104.9	15046.0	14987.3	13521.5	12055.8
17679.1	72.5°	16333.0	15016.4	13699.7	13657.6	13615.3	11933.2	10251.3
14759.1	75°	13811.6	12787.2	11762.8	11606.5	11450.2	9709.4	7968.6
11620.4	77.5°	10948.4	10169.6	9390.9	9167.2	8943.6	7318.4	5693.4
8545.5	80°	8192.5	7604.7	7016.5	6738.5	6460.5	5093.5	3726.3
5613.5	82.5°	5466.3	5061.5	4656.7	4346.0	4035.5	3100.7	2166.1
3222.1	85°	3138.6	2806.1	2473.5	2209.3	1945.1	1449.1	953.0
1263.0	87.5°	1255.9	1089.6	923.2	775.9	628.5	461.8	295.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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