

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: P950029

Luminaire Tested: **GALN-SB4C-835-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950029
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-835-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27740 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

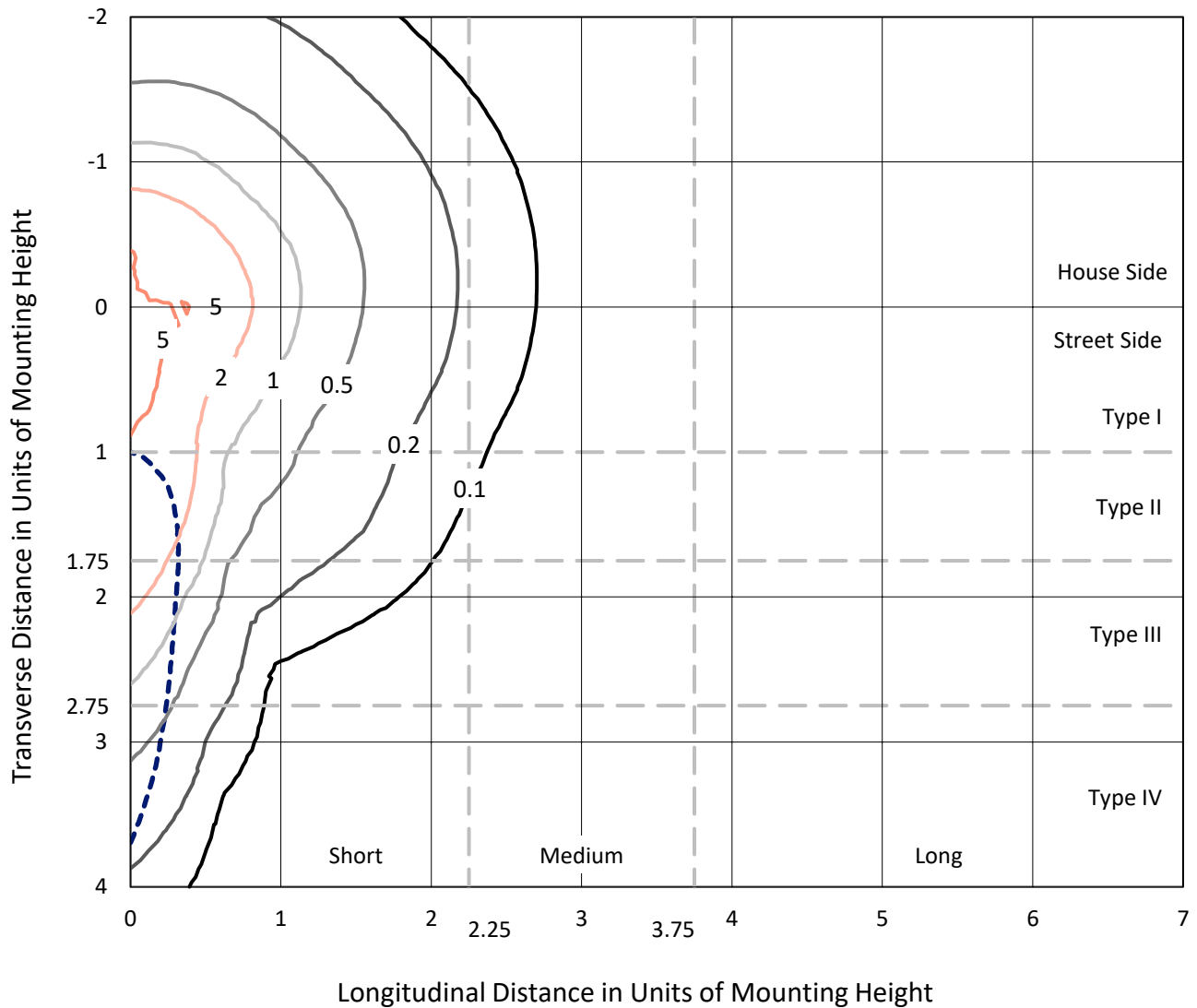
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

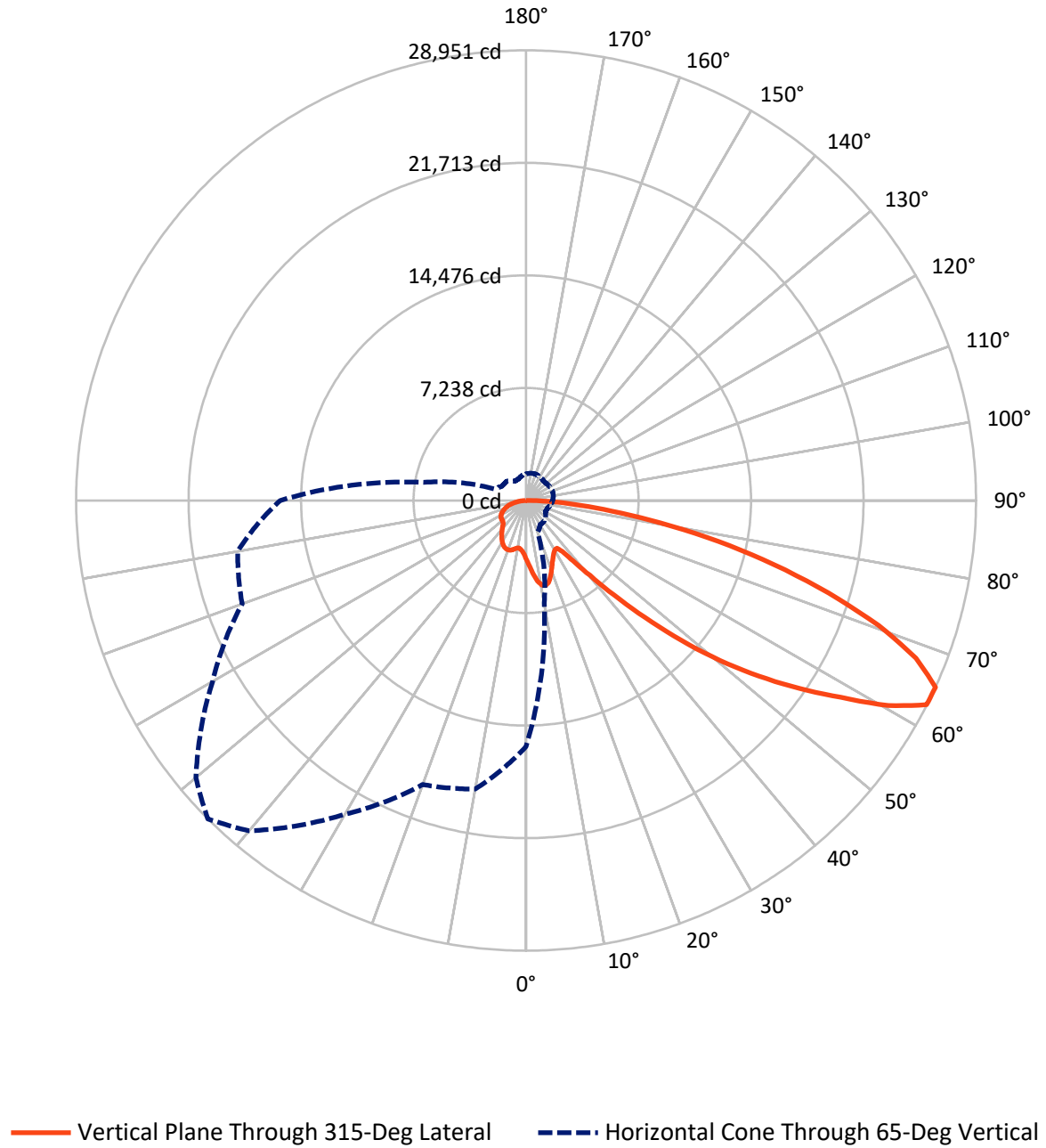
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	7050.1	0.0	7050.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	20689.9	0.0	20689.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	27740.0	0.0	27740.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.4
10°-20°	1187.9	4.3
20°-30°	1834.8	6.6
30°-40°	2325.2	8.4
40°-50°	3507.0	12.6
50°-60°	5666.0	20.4
60°-70°	7063.6	25.5
70°-80°	4632.0	16.7
80°-90°	1145.1	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°	27740.0	100.0
0°-180°	27740.0	100.0



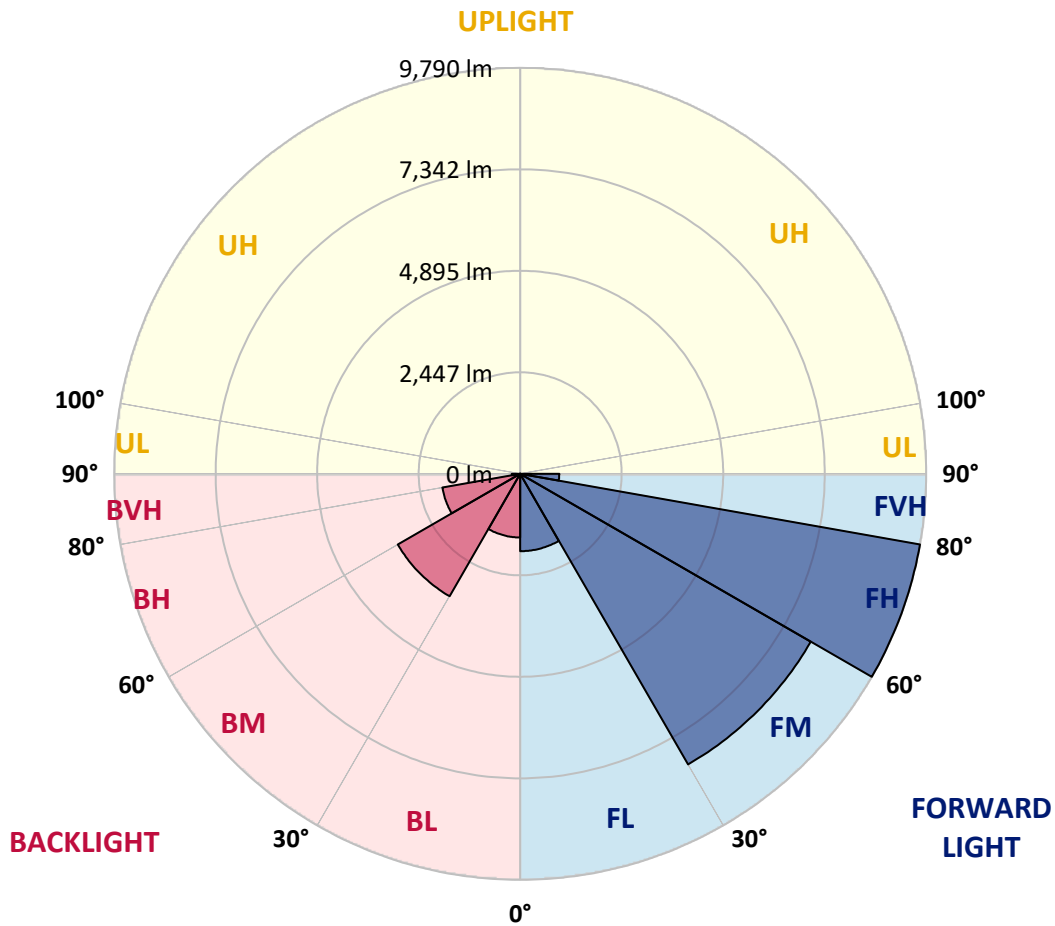
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.8	6.7			
FM (30°-60°)	8091.2	29.2			
FH (60°-80°)	9789.6	35.3			G4/12000
FVH (80°-90°)	943.3	3.4			G5
BL (0°-30°)	1535.2	5.5	B3/2500		
BM (30°-60°)	3407.0	12.3	B3/5000		
BH (60°-80°)	1906.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	201.8	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°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
2.5°	4102.1	4070.6	4039.2	4005.7	3972.3	3938.6	3904.9	3872.7	3840.5	3809.4
5°	4411.0	4341.4	4271.9	4202.5	4133.3	4063.5	3993.8	3928.7	3863.5	3802.0
7.5°	4721.3	4606.5	4491.9	4385.9	4280.0	4176.8	4073.6	3982.7	3891.8	3807.9
10°	4959.1	4814.1	4669.0	4528.9	4389.0	4263.7	4138.3	4030.8	3923.1	3819.6
12.5°	5104.8	4945.4	4786.1	4627.4	4468.8	4320.9	4173.1	4051.5	3929.8	3821.1
15°	5193.3	5027.2	4861.1	4688.9	4516.8	4346.6	4176.3	4035.5	3894.7	3774.2
17.5°	5243.1	5074.6	4906.1	4718.3	4530.5	4332.9	4135.3	3966.0	3796.6	3654.9
20°	5298.0	5122.9	4947.7	4741.3	4534.9	4295.5	4056.0	3846.1	3636.2	3471.2
22.5°	5361.7	5182.8	5003.8	4772.4	4540.8	4249.5	3958.2	3705.4	3452.7	3264.9
25°	5443.6	5268.3	5093.1	4828.6	4563.9	4204.1	3844.5	3548.4	3252.4	3059.9
27.5°	5554.9	5387.7	5220.4	4916.4	4612.2	4173.8	3735.4	3404.8	3074.1	2898.9
30°	5704.9	5543.3	5381.9	5030.1	4678.4	4159.6	3640.6	3284.8	2928.9	2781.8
32.5°	5882.0	5722.0	5562.2	5148.8	4735.5	4142.1	3548.4	3181.3	2814.0	2695.5
35°	6097.2	5944.1	5790.8	5284.1	4777.3	4109.0	3440.9	3079.5	2718.2	2619.4
37.5°	6459.5	6264.2	6068.9	5435.6	4802.2	4052.3	3302.5	2959.8	2617.2	2530.8
40°	7006.9	6722.3	6437.8	5627.9	4817.9	3974.3	3130.9	2817.0	2503.0	2424.7
42.5°	7732.9	7322.2	6911.5	5879.5	4847.6	3893.8	2940.3	2659.3	2378.3	2306.1
45°	8629.4	8075.4	7521.4	6210.6	4899.8	3819.0	2738.4	2491.9	2245.4	2172.2
47.5°	9750.7	8970.9	8191.1	6563.4	4935.7	3757.3	2578.8	2359.4	2140.0	2045.6
50°	11220.2	10044.7	8869.1	6890.7	4912.3	3689.9	2467.6	2271.4	2075.3	1951.2
52.5°	12907.2	11172.7	9438.2	7103.2	4768.1	3576.2	2384.4	2213.5	2042.6	1899.9
55°	14703.2	12172.7	9642.3	7056.4	4470.2	3387.7	2305.1	2171.4	2037.8	1905.0
57.5°	16336.7	12881.4	9426.1	6726.7	4027.5	3121.9	2216.1	2121.7	2027.3	1910.2
60°	17324.0	13058.6	8792.9	6113.3	3433.6	2776.7	2119.8	2045.6	1971.4	1894.1
62.5°	16822.7	12312.8	7802.9	5283.8	2764.7	2363.6	1962.6	1913.2	1864.1	1854.6
65°	15819.3	11257.6	6695.8	4437.5	2179.2	1992.0	1804.8	1781.5	1758.2	1759.4
67.5°	14474.9	10001.8	5528.8	3608.4	1688.0	1634.8	1581.6	1594.6	1607.5	1604.3
70°	12859.6	8631.6	4403.6	2841.1	1278.6	1293.8	1308.9	1369.2	1429.3	1429.3
72.5°	10934.8	7146.2	3357.8	2172.0	986.3	1032.1	1078.0	1163.5	1248.9	1263.2
75°	8499.9	5443.5	2387.1	1576.4	765.8	807.4	849.0	944.7	1040.4	1106.6
77.5°	6073.0	3810.0	1546.9	1068.2	589.6	617.8	646.2	739.2	832.1	941.2
80°	3974.8	2454.7	934.6	688.2	442.0	453.8	465.5	544.2	622.8	753.1
82.5°	2310.5	1420.7	531.0	423.3	315.9	317.9	320.3	378.2	436.2	547.4
85°	1016.6	639.1	261.7	226.3	191.0	190.0	188.8	231.3	273.7	356.4
87.5°	314.7	209.3	103.9	93.8	83.7	82.7	81.7	98.9	116.4	150.8
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°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
3774.7	2.5°	3746.6	3718.6	3693.3	3668.1	3646.0	3623.9	3601.7	3579.6	3562.4	3545.2
3741.3	5°	3688.3	3635.2	3590.7	3546.3	3507.1	3467.9	3432.3	3396.6	3369.2	3341.7
3729.3	7.5°	3658.7	3588.3	3529.8	3471.2	3421.9	3372.4	3328.8	3285.3	3252.7	3220.2
3735.2	10°	3660.8	3586.4	3527.9	3469.3	3416.2	3362.9	3313.9	3264.9	3225.9	3186.8
3742.5	12.5°	3681.6	3621.0	3582.0	3543.4	3501.5	3460.0	3409.2	3358.5	3308.8	3259.0
3711.3	15°	3682.2	3653.2	3658.5	3663.7	3652.9	3642.1	3598.0	3553.9	3483.1	3412.3
3616.2	17.5°	3626.8	3637.4	3701.2	3765.0	3799.0	3832.8	3797.2	3761.8	3668.0	3574.1
3461.0	20°	3510.8	3560.5	3671.3	3782.3	3853.3	3924.3	3907.9	3891.3	3784.0	3676.9
3284.9	22.5°	3358.5	3432.2	3558.6	3685.4	3777.7	3870.1	3880.1	3889.9	3787.4	3684.9
3114.1	25°	3199.0	3283.9	3397.6	3511.5	3602.4	3693.3	3727.3	3761.1	3677.0	3593.2
2964.8	27.5°	3046.8	3128.7	3222.3	3315.6	3388.5	3461.4	3499.2	3537.1	3477.2	3417.5
2833.5	30°	2898.5	2963.8	3041.3	3118.9	3179.4	3240.0	3270.7	3301.5	3255.9	3210.3
2718.4	32.5°	2756.9	2795.4	2857.4	2919.4	2977.4	3035.5	3069.6	3103.8	3062.0	3020.0
2609.8	35°	2620.4	2631.1	2678.3	2725.5	2782.8	2840.4	2881.4	2922.3	2892.5	2862.8
2496.0	37.5°	2484.2	2472.5	2506.5	2540.3	2597.5	2654.9	2705.6	2756.2	2742.5	2728.7
2371.2	40°	2344.8	2318.3	2342.7	2367.1	2422.5	2477.8	2536.1	2594.5	2597.8	2601.1
2238.8	42.5°	2203.7	2168.5	2188.4	2208.5	2260.9	2313.4	2376.4	2439.3	2456.1	2473.0
2107.0	45°	2072.8	2038.7	2055.4	2072.4	2122.1	2171.9	2237.2	2302.5	2326.6	2350.8
1989.5	47.5°	1960.8	1932.1	1947.9	1963.6	2012.3	2060.9	2125.3	2189.7	2217.6	2245.4
1886.0	50°	1860.6	1835.2	1859.8	1884.6	1930.5	1976.3	2034.0	2091.7	2127.4	2163.1
1808.9	52.5°	1783.7	1758.7	1795.7	1832.6	1874.7	1916.8	1970.5	2024.3	2066.6	2108.9
1767.9	55°	1728.1	1688.4	1741.0	1793.4	1838.7	1884.1	1931.2	1978.2	2023.0	2068.0
1743.3	57.5°	1685.3	1627.4	1683.9	1740.4	1793.7	1846.9	1893.5	1940.2	1985.4	2030.5
1720.2	60°	1645.1	1569.9	1619.5	1668.9	1730.1	1791.3	1838.6	1886.0	1931.4	1976.8
1693.2	62.5°	1599.3	1505.4	1536.9	1568.4	1639.7	1711.1	1761.6	1812.1	1853.7	1895.2
1636.5	65°	1536.6	1436.7	1448.8	1460.8	1537.2	1613.8	1662.1	1710.4	1747.0	1783.6
1535.2	67.5°	1452.0	1368.9	1365.1	1361.3	1431.8	1502.5	1548.3	1594.0	1625.6	1657.2
1406.6	70°	1347.5	1288.4	1275.2	1262.0	1324.1	1386.2	1425.7	1465.2	1493.7	1522.3
1263.5	72.5°	1222.9	1182.4	1163.1	1143.9	1192.8	1241.5	1277.3	1313.0	1340.9	1368.9
1101.0	75°	1069.8	1038.5	1020.1	1001.5	1037.8	1074.1	1106.4	1138.8	1164.3	1189.7
938.3	77.5°	913.2	888.2	869.5	850.7	880.3	909.7	937.5	965.3	992.1	1018.8
752.7	80°	731.7	710.6	695.0	679.2	703.8	728.2	751.6	775.0	795.4	815.6
553.6	82.5°	543.3	533.1	522.0	510.8	508.8	506.7	498.5	490.4	533.7	577.0
364.5	85°	353.5	342.5	330.1	317.6	307.1	296.4	273.7	251.0	291.6	332.3
161.0	87.5°	156.6	152.2	149.9	147.5	147.1	146.7	129.4	112.0	129.0	146.1
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
3531.3	2.5°	3517.4	3506.5	3495.7	3485.7	3475.6	3463.2	3475.6	3485.7	3495.7	3506.5
3322.5	5°	3303.4	3289.7	3276.1	3265.7	3255.3	3245.1	3255.3	3265.7	3276.1	3289.7
3197.4	7.5°	3174.5	3158.9	3143.4	3134.0	3124.8	3117.8	3124.8	3134.0	3143.4	3158.9
3161.4	10°	3135.6	3120.8	3106.0	3098.1	3090.2	3087.0	3090.2	3098.1	3106.0	3120.8
3226.1	12.5°	3193.1	3176.6	3160.2	3153.5	3146.7	3145.6	3146.7	3153.5	3160.2	3176.6
3362.2	15°	3312.1	3289.2	3266.3	3257.5	3248.8	3248.0	3248.8	3257.5	3266.3	3289.2
3500.4	17.5°	3426.6	3392.6	3358.5	3347.4	3336.1	3334.4	3336.1	3347.4	3358.5	3392.6
3586.4	20°	3496.1	3452.7	3409.0	3395.1	3381.2	3376.8	3381.2	3395.1	3409.0	3452.7
3591.9	22.5°	3498.6	3452.8	3406.8	3391.5	3376.1	3369.5	3376.1	3391.5	3406.8	3452.8
3510.3	25°	3427.8	3388.0	3348.3	3333.8	3319.5	3311.0	3319.5	3333.8	3348.3	3388.0
3353.3	27.5°	3289.0	3262.4	3235.6	3229.0	3222.4	3220.2	3222.4	3229.0	3235.6	3262.4
3164.3	30°	3118.0	3104.4	3090.7	3090.7	3090.7	3092.9	3090.7	3090.7	3090.7	3104.4
2983.2	32.5°	2946.5	2937.6	2928.6	2929.8	2931.1	2933.3	2931.1	2929.8	2928.6	2937.6
2828.8	35°	2795.0	2781.4	2767.9	2765.0	2762.1	2760.6	2762.1	2765.0	2767.9	2781.4
2697.5	37.5°	2666.2	2641.5	2616.9	2603.8	2590.8	2583.5	2590.8	2603.8	2616.9	2641.5
2574.6	40°	2548.1	2512.1	2476.3	2452.0	2428.0	2413.7	2428.0	2452.0	2476.3	2512.1
2450.6	42.5°	2428.3	2383.7	2339.0	2303.8	2268.5	2245.4	2268.5	2303.8	2339.0	2383.7
2330.6	45°	2310.5	2259.4	2208.5	2167.1	2125.6	2099.0	2125.6	2167.1	2208.5	2259.4
2231.3	47.5°	2217.3	2171.9	2126.5	2088.2	2050.0	2024.3	2050.0	2088.2	2126.5	2171.9
2162.2	50°	2161.6	2125.3	2089.0	2053.6	2018.2	1993.6	2018.2	2053.6	2089.0	2125.3
2116.6	52.5°	2124.2	2094.6	2065.0	2033.3	2001.7	1979.0	2001.7	2033.3	2065.0	2094.6
2078.5	55°	2089.0	2063.3	2037.5	2009.7	1981.9	1961.4	1981.9	2009.7	2037.5	2063.3
2041.2	57.5°	2051.9	2025.8	1999.8	1972.2	1944.6	1923.3	1944.6	1972.2	1999.8	2025.8
1988.5	60°	2000.2	1974.7	1949.4	1921.0	1892.6	1870.7	1892.6	1921.0	1949.4	1974.7
1906.5	62.5°	1917.8	1894.8	1871.8	1842.0	1812.1	1785.8	1812.1	1842.0	1871.8	1894.8
1795.1	65°	1806.5	1784.4	1762.3	1733.4	1704.5	1681.8	1704.5	1733.4	1762.3	1784.4
1668.5	67.5°	1679.6	1659.3	1639.1	1612.2	1585.2	1564.7	1585.2	1612.2	1639.1	1659.3
1533.1	70°	1543.9	1527.4	1510.9	1485.1	1459.3	1435.9	1459.3	1485.1	1510.9	1527.4
1381.8	72.5°	1394.6	1380.9	1367.1	1342.5	1318.1	1295.4	1318.1	1342.5	1367.1	1380.9
1203.2	75°	1216.7	1209.9	1203.2	1182.6	1161.9	1140.2	1161.9	1182.6	1203.2	1209.9
1031.3	77.5°	1043.9	1034.6	1024.9	1004.1	983.3	966.1	983.3	1004.1	1024.9	1034.6
832.3	80°	849.0	844.9	840.9	813.0	784.9	752.4	784.9	813.0	840.9	844.9
605.4	82.5°	633.8	632.0	630.1	606.6	582.9	562.1	582.9	606.6	630.1	632.0
367.4	85°	402.5	399.6	396.7	378.2	359.8	341.0	359.8	378.2	396.7	399.6
160.3	87.5°	174.5	171.0	167.2	157.8	148.1	139.1	148.1	157.8	167.2	171.0
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°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
3517.4	2.5°	3531.3	3545.2	3562.4	3579.6	3601.7	3623.9	3646.0	3668.1	3693.3	3718.6
3303.4	5°	3322.5	3341.7	3369.2	3396.6	3432.3	3467.9	3507.1	3546.3	3590.7	3635.2
3174.5	7.5°	3197.4	3220.2	3252.7	3285.3	3328.8	3372.4	3421.9	3471.2	3529.8	3588.3
3135.6	10°	3161.4	3186.8	3225.9	3264.9	3313.9	3362.9	3416.2	3469.3	3527.9	3586.4
3193.1	12.5°	3226.1	3259.0	3308.8	3358.5	3409.2	3460.0	3501.5	3543.4	3582.0	3621.0
3312.1	15°	3362.2	3412.3	3483.1	3553.9	3598.0	3642.1	3652.9	3663.7	3658.5	3653.2
3426.6	17.5°	3500.4	3574.1	3668.0	3761.8	3797.2	3832.8	3799.0	3765.0	3701.2	3637.4
3496.1	20°	3586.4	3676.9	3784.0	3891.3	3907.9	3924.3	3853.3	3782.3	3671.3	3560.5
3498.6	22.5°	3591.9	3684.9	3787.4	3889.9	3880.1	3870.1	3777.7	3685.4	3558.6	3432.2
3427.8	25°	3510.3	3593.2	3677.0	3761.1	3727.3	3693.3	3602.4	3511.5	3397.6	3283.9
3289.0	27.5°	3353.3	3417.5	3477.2	3537.1	3499.2	3461.4	3388.5	3315.6	3222.3	3128.7
3118.0	30°	3164.3	3210.3	3255.9	3301.5	3270.7	3240.0	3179.4	3118.9	3041.3	2963.8
2946.5	32.5°	2983.2	3020.0	3062.0	3103.8	3069.6	3035.5	2977.4	2919.4	2857.4	2795.4
2795.0	35°	2828.8	2862.8	2892.5	2922.3	2881.4	2840.4	2782.8	2725.5	2678.3	2631.1
2666.2	37.5°	2697.5	2728.7	2742.5	2756.2	2705.6	2654.9	2597.5	2540.3	2506.5	2472.5
2548.1	40°	2574.6	2601.1	2597.8	2594.5	2536.1	2477.8	2422.5	2367.1	2342.7	2318.3
2428.3	42.5°	2450.6	2473.0	2456.1	2439.3	2376.4	2313.4	2260.9	2208.5	2188.4	2168.5
2310.5	45°	2330.6	2350.8	2326.6	2302.5	2237.2	2171.9	2122.1	2072.4	2055.4	2038.7
2217.3	47.5°	2231.3	2245.4	2217.6	2189.7	2125.3	2060.9	2012.3	1963.6	1947.9	1932.1
2161.6	50°	2162.2	2163.1	2127.4	2091.7	2034.0	1976.3	1930.5	1884.6	1859.8	1835.2
2124.2	52.5°	2116.6	2108.9	2066.6	2024.3	1970.5	1916.8	1874.7	1832.6	1795.7	1758.7
2089.0	55°	2078.5	2068.0	2023.0	1978.2	1931.2	1884.1	1838.7	1793.4	1741.0	1688.4
2051.9	57.5°	2041.2	2030.5	1985.4	1940.2	1893.5	1846.9	1793.7	1740.4	1683.9	1627.4
2000.2	60°	1988.5	1976.8	1931.4	1886.0	1838.6	1791.3	1730.1	1668.9	1619.5	1569.9
1917.8	62.5°	1906.5	1895.2	1853.7	1812.1	1761.6	1711.1	1639.7	1568.4	1536.9	1505.4
1806.5	65°	1795.1	1783.6	1747.0	1710.4	1662.1	1613.8	1537.2	1460.8	1448.8	1436.7
1679.6	67.5°	1668.5	1657.2	1625.6	1594.0	1548.3	1502.5	1431.8	1361.3	1365.1	1368.9
1543.9	70°	1533.1	1522.3	1493.7	1465.2	1425.7	1386.2	1324.1	1262.0	1275.2	1288.4
1394.6	72.5°	1381.8	1368.9	1340.9	1313.0	1277.3	1241.5	1192.8	1143.9	1163.1	1182.4
1216.7	75°	1203.2	1189.7	1164.3	1138.8	1106.4	1074.1	1037.8	1001.5	1020.1	1038.5
1043.9	77.5°	1031.3	1018.8	992.1	965.3	937.5	909.7	880.3	850.7	869.5	888.2
849.0	80°	832.3	815.6	795.4	775.0	751.6	728.2	703.8	679.2	695.0	710.6
633.8	82.5°	605.4	577.0	533.7	490.4	498.5	506.7	508.8	510.8	522.0	533.1
402.5	85°	367.4	332.3	291.6	251.0	273.7	296.4	307.1	317.6	330.1	342.5
174.5	87.5°	160.3	146.1	129.0	112.0	129.4	146.7	147.1	147.5	149.9	152.2
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
3746.6	2.5°	3774.7	3809.4	3840.5	3872.7	3904.9	3938.6	3972.3	4005.7	4039.2	4070.6
3688.3	5°	3741.3	3802.0	3863.5	3928.7	3993.8	4063.5	4133.3	4202.5	4271.9	4341.4
3658.7	7.5°	3729.3	3807.9	3891.8	3982.7	4073.6	4176.8	4280.0	4385.9	4491.9	4606.5
3660.8	10°	3735.2	3819.6	3923.1	4030.8	4138.3	4263.7	4389.0	4528.9	4669.0	4814.1
3681.6	12.5°	3742.5	3821.1	3929.8	4051.5	4173.1	4320.9	4468.8	4627.4	4786.1	4945.4
3682.2	15°	3711.3	3774.2	3894.7	4035.5	4176.3	4346.6	4516.8	4688.9	4861.1	5027.2
3626.8	17.5°	3616.2	3654.9	3796.6	3966.0	4135.3	4332.9	4530.5	4718.3	4906.1	5074.6
3510.8	20°	3461.0	3471.2	3636.2	3846.1	4056.0	4295.5	4534.9	4741.3	4947.7	5122.9
3358.5	22.5°	3284.9	3264.9	3452.7	3705.4	3958.2	4249.5	4540.8	4772.4	5003.8	5182.8
3199.0	25°	3114.1	3059.9	3252.4	3548.4	3844.5	4204.1	4563.9	4828.6	5093.1	5268.3
3046.8	27.5°	2964.8	2898.9	3074.1	3404.8	3735.4	4173.8	4612.2	4916.4	5220.4	5387.7
2898.5	30°	2833.5	2781.8	2928.9	3284.8	3640.6	4159.6	4678.4	5030.1	5381.9	5543.3
2756.9	32.5°	2718.4	2695.5	2814.0	3181.3	3548.4	4142.1	4735.5	5148.8	5562.2	5722.0
2620.4	35°	2609.8	2619.4	2718.2	3079.5	3440.9	4109.0	4777.3	5284.1	5790.8	5944.1
2484.2	37.5°	2496.0	2530.8	2617.2	2959.8	3302.5	4052.3	4802.2	5435.6	6068.9	6264.2
2344.8	40°	2371.2	2424.7	2503.0	2817.0	3130.9	3974.3	4817.9	5627.9	6437.8	6722.3
2203.7	42.5°	2238.8	2306.1	2378.3	2659.3	2940.3	3893.8	4847.6	5879.5	6911.5	7322.2
2072.8	45°	2107.0	2172.2	2245.4	2491.9	2738.4	3819.0	4899.8	6210.6	7521.4	8075.4
1960.8	47.5°	1989.5	2045.6	2140.0	2359.4	2578.8	3757.3	4935.7	6563.4	8191.1	8970.9
1860.6	50°	1886.0	1951.2	2075.3	2271.4	2467.6	3689.9	4912.3	6890.7	8869.1	10044.7
1783.7	52.5°	1808.9	1899.9	2042.6	2213.5	2384.4	3576.2	4768.1	7103.2	9438.2	11172.7
1728.1	55°	1767.9	1905.0	2037.8	2171.4	2305.1	3387.7	4470.2	7056.4	9642.3	12172.7
1685.3	57.5°	1743.3	1910.2	2027.3	2121.7	2216.1	3121.9	4027.5	6726.7	9426.1	12881.4
1645.1	60°	1720.2	1894.1	1971.4	2045.6	2119.8	2776.7	3433.6	6113.3	8792.9	13058.6
1599.3	62.5°	1693.2	1854.6	1864.1	1913.2	1962.6	2363.6	2764.7	5283.8	7802.9	12312.8
1536.6	65°	1636.5	1759.4	1758.2	1781.5	1804.8	1992.0	2179.2	4437.5	6695.8	11257.6
1452.0	67.5°	1535.2	1604.3	1607.5	1594.6	1581.6	1634.8	1688.0	3608.4	5528.8	10001.8
1347.5	70°	1406.6	1429.3	1429.3	1369.2	1308.9	1293.8	1278.6	2841.1	4403.6	8631.6
1222.9	72.5°	1263.5	1263.2	1248.9	1163.5	1078.0	1032.1	986.3	2172.0	3357.8	7146.2
1069.8	75°	1101.0	1106.6	1040.4	944.7	849.0	807.4	765.8	1576.4	2387.1	5443.5
913.2	77.5°	938.3	941.2	832.1	739.2	646.2	617.8	589.6	1068.2	1546.9	3810.0
731.7	80°	752.7	753.1	622.8	544.2	465.5	453.8	442.0	688.2	934.6	2454.7
543.3	82.5°	553.6	547.4	436.2	378.2	320.3	317.9	315.9	423.3	531.0	1420.7
353.5	85°	364.5	356.4	273.7	231.3	188.8	190.0	191.0	226.3	261.7	639.1
156.6	87.5°	161.0	150.8	116.4	98.9	81.7	82.7	83.7	93.8	103.9	209.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
4102.1	2.5°	4117.6	4133.3	4155.4	4177.5	4190.7	4203.8	4210.4	4217.0	4214.1	4217.0
4411.0	5°	4465.3	4519.7	4573.6	4627.6	4656.9	4686.1	4703.9	4721.7	4735.2	4721.7
4721.3	7.5°	4809.7	4897.9	4977.4	5056.9	5104.8	5152.6	5178.5	5204.3	5216.7	5204.3
4959.1	10°	5063.6	5168.1	5261.4	5354.6	5411.1	5467.3	5492.5	5517.5	5527.1	5517.5
5104.8	12.5°	5218.1	5331.2	5415.5	5499.5	5540.5	5581.5	5595.3	5609.0	5610.5	5609.0
5193.3	15°	5291.1	5388.7	5441.6	5494.6	5496.0	5497.5	5482.9	5468.2	5450.9	5468.2
5243.1	17.5°	5309.1	5375.1	5376.1	5377.0	5317.7	5258.5	5204.2	5149.7	5111.4	5149.7
5298.0	20°	5321.0	5344.1	5274.6	5205.0	5074.2	4943.3	4848.0	4752.7	4694.2	4752.7
5361.7	22.5°	5331.5	5301.3	5157.3	5013.3	4820.8	4628.3	4509.2	4390.0	4325.3	4390.0
5443.6	25°	5348.5	5253.3	5034.7	4816.0	4582.2	4348.5	4223.2	4098.2	4037.0	4098.2
5554.9	27.5°	5384.8	5214.5	4924.9	4635.4	4376.3	4117.2	3993.9	3870.8	3813.0	3870.8
5704.9	30°	5451.2	5197.7	4841.2	4484.6	4214.7	3944.8	3830.4	3716.1	3662.3	3716.1
5882.0	32.5°	5534.7	5187.5	4784.1	4380.7	4127.0	3873.3	3783.6	3693.7	3654.9	3693.7
6097.2	35°	5672.1	5247.2	4826.8	4406.6	4230.3	4054.2	4033.3	4012.4	4009.2	4012.4
6459.5	37.5°	5959.4	5459.4	5077.4	4695.4	4683.9	4672.5	4768.3	4864.0	4913.8	4864.0
7006.9	40°	6463.1	5919.3	5635.2	5351.1	5551.6	5752.2	5984.9	6217.6	6333.6	6217.6
7732.9	42.5°	7193.4	6653.8	6490.2	6326.5	6763.9	7201.3	7624.6	8047.9	8296.4	8047.9
8629.4	45°	8144.8	7660.0	7587.8	7515.5	8216.2	8917.1	9612.6	10308.3	10730.6	10308.3
9750.7	47.5°	9279.2	8807.6	8792.9	8778.3	9789.2	10799.7	11818.0	12836.2	13434.1	12836.2
11220.2	50°	10637.8	10055.6	10058.0	10060.5	11363.3	12666.0	14010.1	15354.3	16166.9	15354.3
12907.2	52.5°	12202.0	11496.9	11425.6	11354.2	12910.3	14466.4	16129.5	17792.4	18766.5	17792.4
14703.2	55°	14006.5	13309.7	13031.8	12753.8	14485.7	16217.4	18200.1	20182.7	21341.2	20182.7
16336.7	57.5°	15957.3	15577.8	15020.2	14462.9	16211.6	17960.3	20206.0	22451.5	23888.1	22451.5
17324.0	60°	17913.3	18502.8	17810.4	17118.1	18773.0	20427.9	22832.2	25236.5	26789.2	25236.5
16822.7	62.5°	18432.9	20043.2	19965.2	19887.0	21403.0	22919.1	25206.7	27494.0	28929.2	27494.0
15819.3	65°	17330.6	18841.9	19140.9	19439.8	21366.4	23293.1	25511.3	27729.3	28951.2	27729.3
14474.9	67.5°	15912.2	17349.6	17489.9	17629.9	19637.3	21644.5	23872.2	26099.8	27057.1	26099.8
12859.6	70°	14423.0	15986.6	16049.2	16112.0	17907.2	19702.1	21619.2	23536.1	24068.2	23536.1
10934.8	72.5°	12728.9	14523.2	14568.2	14613.2	16017.6	17422.1	18857.9	20293.5	20347.4	20293.5
8499.9	75°	10356.8	12213.7	12380.4	12547.1	13639.8	14732.5	15743.2	16753.9	16483.1	16753.9
6073.0	77.5°	7806.4	9539.9	9778.5	10017.1	10847.7	11678.4	12395.2	13112.1	12646.7	13112.1
3974.8	80°	5433.1	6891.3	7187.8	7484.4	8111.7	8738.8	9115.3	9491.6	8742.9	9491.6
2310.5	82.5°	3307.5	4304.5	4635.8	4967.2	5399.0	5830.8	5987.8	6144.8	5556.3	6144.8
1016.6	85°	1545.7	2074.8	2356.6	2638.4	2993.2	3347.9	3437.0	3526.1	3054.8	3526.1
314.7	87.5°	492.5	670.4	827.6	984.8	1162.2	1339.6	1347.2	1354.7	1137.3	1354.7
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°
3814.5	0°	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5	3814.5
4210.4	2.5°	4203.8	4190.7	4177.5	4155.4	4133.3	4117.6	4102.1
4703.9	5°	4686.1	4656.9	4627.6	4573.6	4519.7	4465.3	4411.0
5178.5	7.5°	5152.6	5104.8	5056.9	4977.4	4897.9	4809.7	4721.3
5492.5	10°	5467.3	5411.1	5354.6	5261.4	5168.1	5063.6	4959.1
5595.3	12.5°	5581.5	5540.5	5499.5	5415.5	5331.2	5218.1	5104.8
5482.9	15°	5497.5	5496.0	5494.6	5441.6	5388.7	5291.1	5193.3
5204.2	17.5°	5258.5	5317.7	5377.0	5376.1	5375.1	5309.1	5243.1
4848.0	20°	4943.3	5074.2	5205.0	5274.6	5344.1	5321.0	5298.0
4509.2	22.5°	4628.3	4820.8	5013.3	5157.3	5301.3	5331.5	5361.7
4223.2	25°	4348.5	4582.2	4816.0	5034.7	5253.3	5348.5	5443.6
3993.9	27.5°	4117.2	4376.3	4635.4	4924.9	5214.5	5384.8	5554.9
3830.4	30°	3944.8	4214.7	4484.6	4841.2	5197.7	5451.2	5704.9
3783.6	32.5°	3873.3	4127.0	4380.7	4784.1	5187.5	5534.7	5882.0
4033.3	35°	4054.2	4230.3	4406.6	4826.8	5247.2	5672.1	6097.2
4768.3	37.5°	4672.5	4683.9	4695.4	5077.4	5459.4	5959.4	6459.5
5984.9	40°	5752.2	5551.6	5351.1	5635.2	5919.3	6463.1	7006.9
7624.6	42.5°	7201.3	6763.9	6326.5	6490.2	6653.8	7193.4	7732.9
9612.6	45°	8917.1	8216.2	7515.5	7587.8	7660.0	8144.8	8629.4
11818.0	47.5°	10799.7	9789.2	8778.3	8792.9	8807.6	9279.2	9750.7
14010.1	50°	12666.0	11363.3	10060.5	10058.0	10055.6	10637.8	11220.2
16129.5	52.5°	14466.4	12910.3	11354.2	11425.6	11496.9	12202.0	12907.2
18200.1	55°	16217.4	14485.7	12753.8	13031.8	13309.7	14006.5	14703.2
20206.0	57.5°	17960.3	16211.6	14462.9	15020.2	15577.8	15957.3	16336.7
22832.2	60°	20427.9	18773.0	17118.1	17810.4	18502.8	17913.3	17324.0
25206.7	62.5°	22919.1	21403.0	19887.0	19965.2	20043.2	18432.9	16822.7
25511.3	65°	23293.1	21366.4	19439.8	19140.9	18841.9	17330.6	15819.3
23872.2	67.5°	21644.5	19637.3	17629.9	17489.9	17349.6	15912.2	14474.9
21619.2	70°	19702.1	17907.2	16112.0	16049.2	15986.6	14423.0	12859.6
18857.9	72.5°	17422.1	16017.6	14613.2	14568.2	14523.2	12728.9	10934.8
15743.2	75°	14732.5	13639.8	12547.1	12380.4	12213.7	10356.8	8499.9
12395.2	77.5°	11678.4	10847.7	10017.1	9778.5	9539.9	7806.4	6073.0
9115.3	80°	8738.8	8111.7	7484.4	7187.8	6891.3	5433.1	3974.8
5987.8	82.5°	5830.8	5399.0	4967.2	4635.8	4304.5	3307.5	2310.5
3437.0	85°	3347.9	2993.2	2638.4	2356.6	2074.8	1545.7	1016.6
1347.2	87.5°	1339.6	1162.2	984.8	827.6	670.4	492.5	314.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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