

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: P949945

Luminaire Tested: **GALN-SB4C-750-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949945
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-750-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31641 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

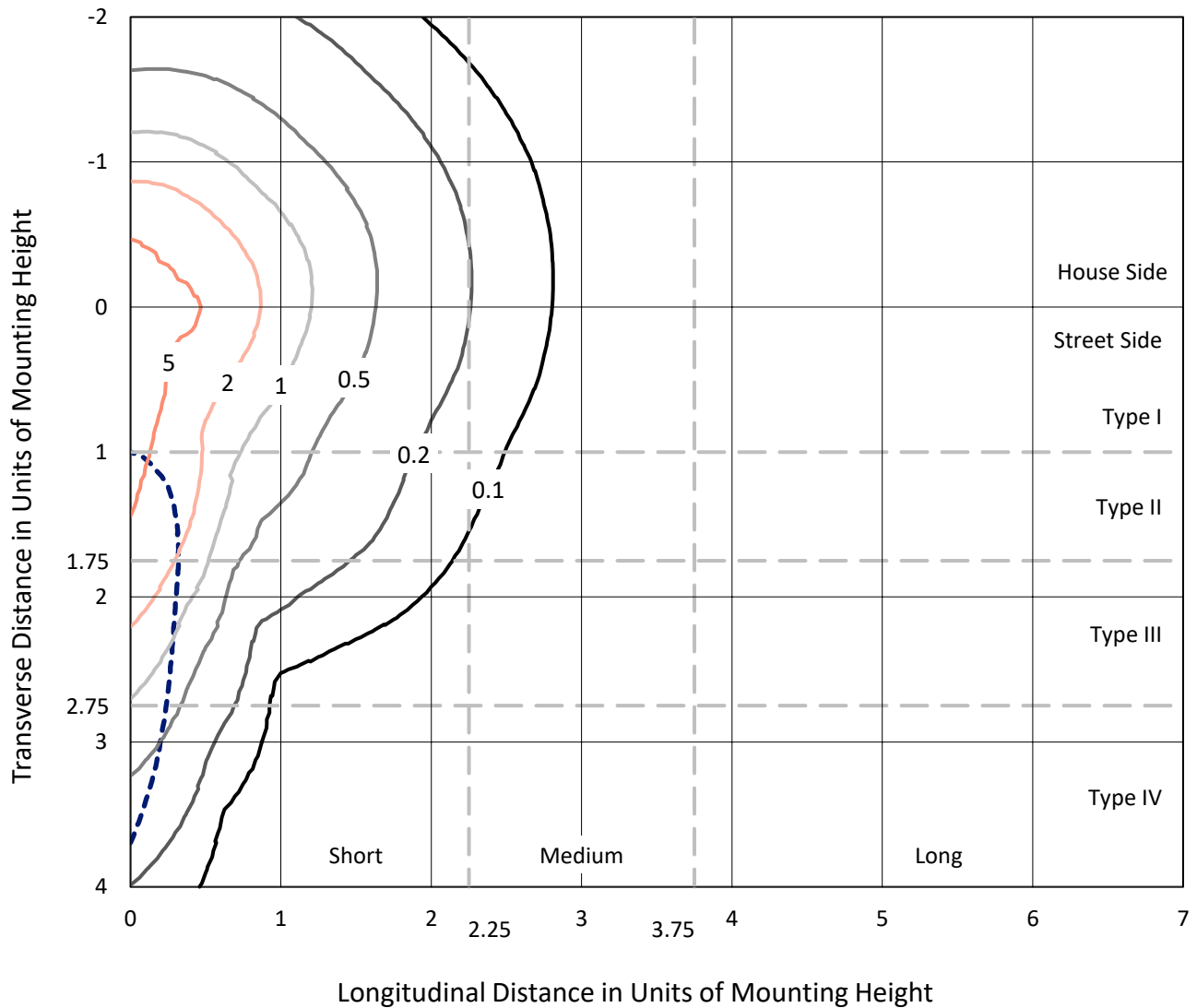
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

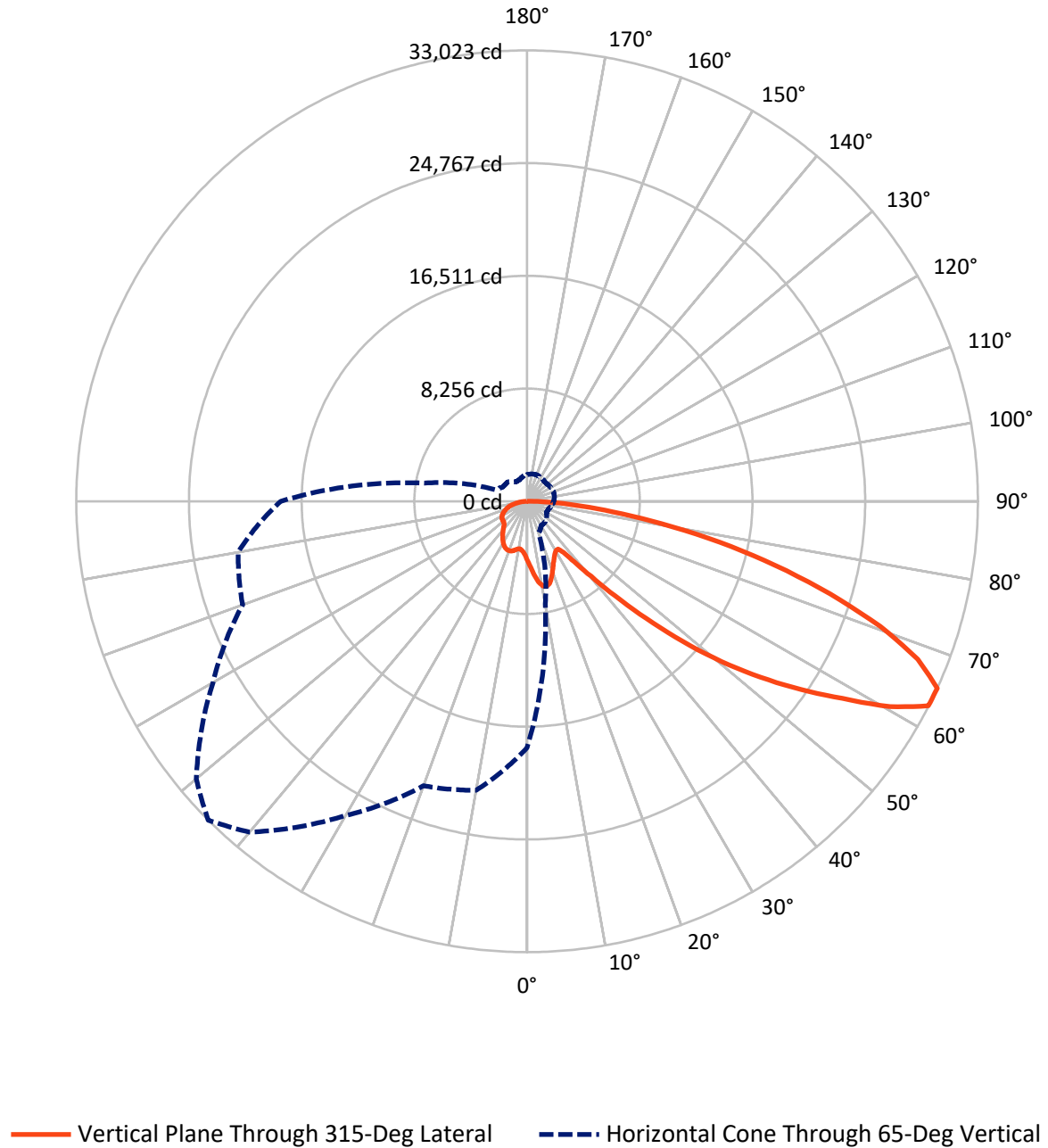
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	8041.5	0.0	8041.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	23599.4	0.0	23599.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	31641.0	0.0	31641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	1.4
10°-20°	1354.9	4.3
20°-30°	2092.9	6.6
30°-40°	2652.2	8.4
40°-50°	4000.2	12.6
50°-60°	6462.8	20.4
60°-70°	8056.9	25.5
70°-80°	5283.3	16.7
80°-90°	1306.2	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°	31641.0	100.0
0°-180°	31641.0	100.0



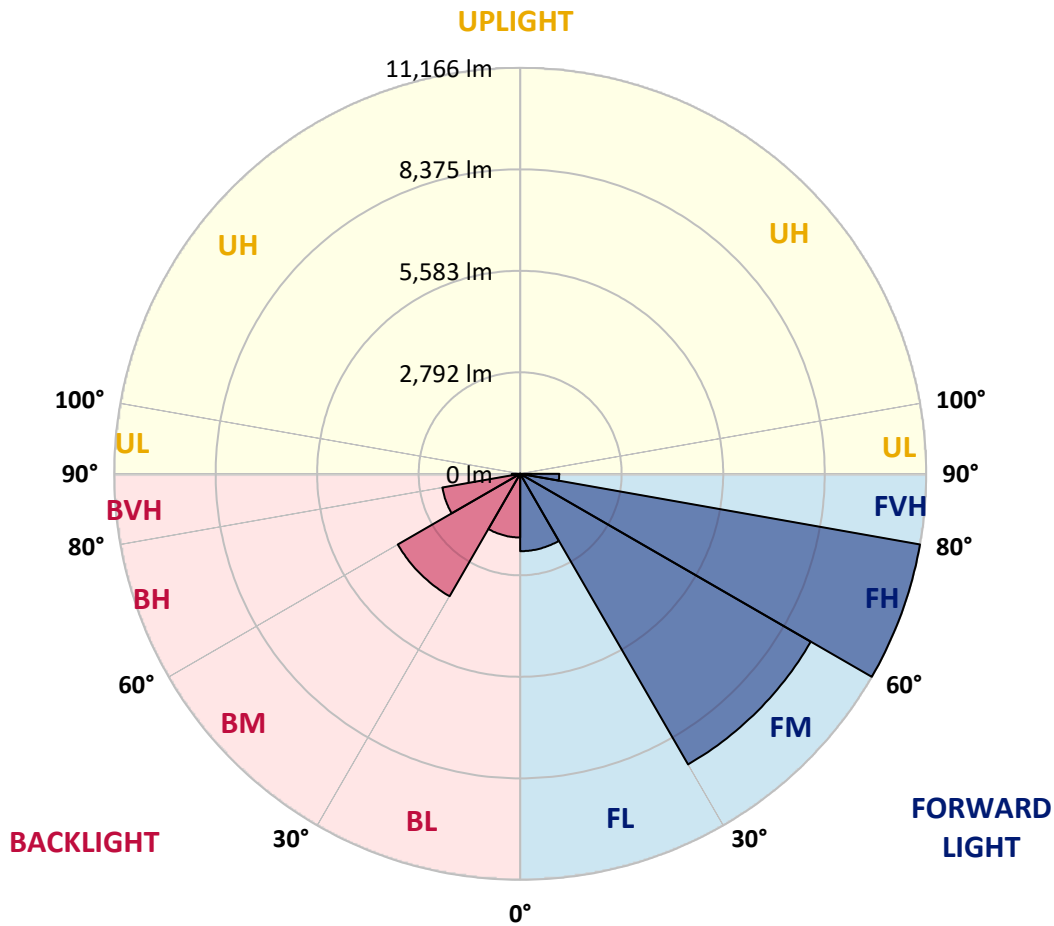
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.2	6.7			
FM (30°-60°)	9229.0	29.2			
FH (60°-80°)	11166.2	35.3			G4/12000
FVH (80°-90°)	1076.0	3.4			G5
BL (0°-30°)	1751.1	5.5	B3/2500		
BM (30°-60°)	3886.2	12.3	B3/5000		
BH (60°-80°)	2174.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	230.2	0.7			G3/500
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°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
2.5°	4679.0	4643.1	4607.2	4569.0	4530.9	4492.5	4454.1	4417.4	4380.6	4345.1
5°	5031.3	4952.0	4872.7	4793.5	4714.5	4634.9	4555.4	4481.1	4406.8	4336.7
7.5°	5385.2	5254.3	5123.6	5002.7	4881.8	4764.1	4646.4	4542.7	4439.1	4343.4
10°	5656.5	5491.1	5325.6	5165.8	5006.2	4863.3	4720.2	4597.7	4474.8	4356.8
12.5°	5822.6	5640.8	5459.2	5278.2	5097.2	4928.6	4760.0	4621.2	4482.5	4358.4
15°	5923.6	5734.2	5544.7	5348.3	5152.0	4957.8	4763.6	4603.0	4442.4	4305.0
17.5°	5980.4	5788.2	5596.1	5381.9	5167.7	4942.3	4716.9	4523.7	4330.5	4168.9
20°	6043.0	5843.3	5643.5	5408.1	5172.7	4899.5	4626.4	4387.0	4147.6	3959.4
22.5°	6115.6	5911.6	5707.4	5443.5	5179.4	4847.1	4514.9	4226.5	3938.2	3724.0
25°	6209.1	6009.1	5809.3	5507.6	5205.7	4795.4	4385.1	4047.4	3709.8	3490.2
27.5°	6336.0	6145.4	5954.5	5607.8	5260.8	4760.8	4260.8	3883.6	3506.4	3306.6
30°	6507.2	6322.8	6138.7	5737.5	5336.3	4744.6	4152.6	3746.7	3340.8	3173.0
32.5°	6709.2	6526.7	6344.4	5872.9	5401.4	4724.6	4047.4	3628.7	3209.8	3074.5
35°	6954.6	6780.0	6605.2	6027.2	5449.2	4686.8	3924.8	3512.6	3100.4	2987.7
37.5°	7367.8	7145.1	6922.4	6200.0	5477.5	4622.2	3766.9	3376.0	2985.2	2886.7
40°	7992.3	7667.7	7343.1	6419.3	5495.4	4533.2	3571.2	3213.1	2855.0	2765.6
42.5°	8820.4	8351.9	7883.4	6706.3	5529.3	4441.4	3353.8	3033.3	2712.7	2630.4
45°	9843.0	9211.0	8579.1	7084.0	5588.9	4356.1	3123.4	2842.3	2561.1	2477.6
47.5°	11121.9	10232.5	9342.9	7486.4	5629.8	4285.6	2941.5	2691.2	2440.9	2333.2
50°	12798.1	11457.3	10116.3	7859.7	5603.1	4208.8	2814.6	2590.8	2367.1	2225.5
52.5°	14722.3	12743.9	10765.4	8102.1	5438.6	4079.1	2719.7	2524.7	2329.9	2167.1
55°	16770.9	13884.5	10998.3	8048.7	5098.9	3864.1	2629.2	2476.8	2324.4	2173.0
57.5°	18634.1	14692.9	10751.7	7672.7	4593.8	3560.9	2527.7	2420.0	2312.4	2178.8
60°	19760.2	14894.9	10029.5	6973.0	3916.5	3167.2	2417.9	2333.2	2248.6	2160.4
62.5°	19188.4	14044.3	8900.2	6026.8	3153.5	2696.0	2238.6	2182.3	2126.2	2115.4
65°	18043.9	12840.7	7637.5	5061.5	2485.7	2272.1	2058.6	2032.0	2005.5	2006.8
67.5°	16510.4	11408.4	6306.3	4115.8	1925.4	1864.7	1804.0	1818.8	1833.5	1829.9
70°	14668.0	9845.5	5022.9	3240.6	1458.4	1475.7	1492.9	1561.7	1630.3	1630.3
72.5°	12472.6	8151.2	3830.0	2477.5	1125.0	1177.2	1229.6	1327.1	1424.5	1440.8
75°	9695.2	6209.0	2722.7	1798.1	873.5	920.9	968.4	1077.5	1186.7	1262.2
77.5°	6927.1	4345.7	1764.4	1218.5	672.5	704.7	737.1	843.1	949.2	1073.5
80°	4533.7	2799.9	1066.0	785.0	504.2	517.6	530.9	620.7	710.4	859.0
82.5°	2635.4	1620.5	605.7	482.8	360.3	362.6	365.3	431.4	497.5	624.4
85°	1159.5	728.9	298.5	258.1	217.9	216.7	215.4	263.8	312.2	406.5
87.5°	359.0	238.7	118.5	107.0	95.5	94.3	93.2	112.9	132.7	172.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4305.5	2.5°	4273.4	4241.6	4212.7	4184.0	4158.7	4133.5	4108.2	4082.9	4063.4	4043.7
4267.4	5°	4207.0	4146.4	4095.6	4045.0	4000.3	3955.6	3915.0	3874.2	3843.0	3811.6
4253.7	7.5°	4173.3	4093.0	4026.2	3959.4	3903.1	3846.7	3796.9	3747.4	3710.1	3673.1
4260.4	10°	4175.6	4090.8	4024.0	3957.2	3896.6	3835.8	3779.9	3724.0	3679.6	3635.0
4268.8	12.5°	4199.3	4130.2	4085.8	4041.7	3994.0	3946.5	3888.6	3830.8	3774.1	3717.3
4233.2	15°	4200.0	4166.9	4172.9	4178.9	4166.6	4154.2	4104.0	4053.7	3972.9	3892.1
4124.7	17.5°	4136.9	4148.9	4221.7	4294.5	4333.2	4371.8	4331.2	4290.8	4183.8	4076.8
3947.7	20°	4004.5	4061.2	4187.6	4314.2	4395.2	4476.1	4457.4	4438.6	4316.2	4194.0
3746.9	22.5°	3830.8	3914.8	4059.1	4203.7	4309.0	4414.4	4425.7	4436.9	4320.0	4203.2
3552.0	25°	3648.9	3745.7	3875.4	4005.3	4109.0	4212.7	4251.4	4290.0	4194.1	4098.5
3381.7	27.5°	3475.2	3568.7	3675.4	3781.9	3865.1	3948.2	3991.3	4034.5	3966.2	3898.1
3232.0	30°	3306.1	3380.6	3469.0	3557.5	3626.5	3695.6	3730.7	3765.7	3713.8	3661.7
3100.7	32.5°	3144.6	3188.6	3259.2	3330.0	3396.1	3462.4	3501.3	3540.3	3492.6	3444.7
2976.9	35°	2988.9	3001.1	3055.0	3108.7	3174.2	3239.8	3286.6	3333.3	3299.2	3265.4
2847.0	37.5°	2833.6	2820.2	2859.0	2897.5	2962.8	3028.3	3086.0	3143.8	3128.1	3112.4
2704.7	40°	2674.5	2644.3	2672.2	2700.0	2763.1	2826.3	2892.7	2959.3	2963.2	2966.8
2553.6	42.5°	2513.5	2473.5	2496.2	2519.1	2578.8	2638.8	2710.6	2782.3	2801.5	2820.7
2403.4	45°	2364.3	2325.4	2344.4	2363.8	2420.5	2477.3	2551.8	2626.2	2653.8	2681.3
2269.3	47.5°	2236.6	2203.8	2221.9	2239.7	2295.3	2350.8	2424.2	2497.7	2529.4	2561.1
2151.2	50°	2122.2	2093.3	2121.4	2149.6	2202.0	2254.3	2320.0	2385.8	2426.6	2467.3
2063.3	52.5°	2034.5	2006.0	2048.2	2090.3	2138.4	2186.3	2247.6	2309.0	2357.3	2405.5
2016.5	55°	1971.1	1925.9	1985.8	2045.6	2097.3	2149.1	2202.8	2256.4	2307.5	2358.8
1988.5	57.5°	1922.3	1856.2	1920.7	1985.1	2045.9	2106.7	2159.8	2213.0	2264.6	2316.0
1962.1	60°	1876.4	1790.6	1847.2	1903.6	1973.4	2043.2	2097.2	2151.2	2203.0	2254.8
1931.4	62.5°	1824.2	1717.2	1753.1	1788.9	1870.3	1951.7	2009.3	2066.9	2114.3	2161.8
1866.6	65°	1752.7	1638.7	1652.5	1666.2	1753.4	1840.7	1895.8	1950.9	1992.6	2034.4
1751.0	67.5°	1656.2	1561.4	1557.0	1552.7	1633.2	1713.8	1766.1	1818.2	1854.2	1890.3
1604.5	70°	1537.0	1469.6	1454.5	1439.5	1510.3	1581.1	1626.2	1671.2	1703.8	1736.4
1441.2	72.5°	1394.9	1348.7	1326.6	1304.8	1360.5	1416.1	1456.9	1497.6	1529.5	1561.4
1255.9	75°	1220.3	1184.6	1163.5	1142.3	1183.7	1225.1	1262.0	1298.9	1328.0	1357.0
1070.2	77.5°	1041.6	1013.1	991.7	970.4	1004.1	1037.6	1069.4	1101.1	1131.6	1162.0
858.5	80°	834.6	810.6	792.7	774.7	802.7	830.6	857.3	884.0	907.2	930.3
631.4	82.5°	619.7	608.1	595.4	582.7	580.3	578.0	568.7	559.3	608.7	658.1
415.7	85°	403.2	390.7	376.5	362.3	350.3	338.1	312.2	286.3	332.6	379.0
183.7	87.5°	178.6	173.6	171.0	168.3	167.8	167.3	147.6	127.7	147.1	166.6
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°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4027.8	2.5°	4012.0	3999.6	3987.3	3975.9	3964.4	3950.2	3964.4	3975.9	3987.3	3999.6
3789.8	5°	3767.9	3752.4	3736.8	3725.0	3713.1	3701.4	3713.1	3725.0	3736.8	3752.4
3647.0	7.5°	3621.0	3603.1	3585.4	3574.7	3564.2	3556.2	3564.2	3574.7	3585.4	3603.1
3605.9	10°	3576.6	3559.7	3542.8	3533.8	3524.8	3521.1	3524.8	3533.8	3542.8	3559.7
3679.7	12.5°	3642.2	3623.3	3604.6	3596.9	3589.3	3587.9	3589.3	3596.9	3604.6	3623.3
3835.0	15°	3777.9	3751.7	3725.7	3715.6	3705.6	3704.8	3705.6	3715.6	3725.7	3751.7
3992.6	17.5°	3908.5	3869.7	3830.8	3818.1	3805.3	3803.3	3805.3	3818.1	3830.8	3869.7
4090.8	20°	3987.8	3938.2	3888.4	3872.6	3856.7	3851.7	3856.7	3872.6	3888.4	3938.2
4097.0	22.5°	3990.6	3938.4	3885.9	3868.4	3850.9	3843.4	3850.9	3868.4	3885.9	3938.4
4004.0	25°	3909.8	3864.4	3819.2	3802.6	3786.3	3776.6	3786.3	3802.6	3819.2	3864.4
3824.8	27.5°	3751.5	3721.1	3690.6	3683.1	3675.6	3673.1	3675.6	3683.1	3690.6	3721.1
3609.3	30°	3556.5	3541.0	3525.3	3525.3	3525.3	3527.8	3525.3	3525.3	3525.3	3541.0
3402.8	32.5°	3360.9	3350.7	3340.5	3341.8	3343.3	3345.8	3343.3	3341.8	3340.5	3350.7
3226.6	35°	3188.1	3172.5	3157.2	3153.8	3150.5	3148.8	3150.5	3153.8	3157.2	3172.5
3076.9	37.5°	3041.1	3012.9	2984.9	2970.0	2955.1	2946.8	2955.1	2970.0	2984.9	3012.9
2936.6	40°	2906.4	2865.3	2824.6	2796.9	2769.5	2753.1	2769.5	2796.9	2824.6	2865.3
2795.2	42.5°	2769.8	2718.9	2668.0	2627.7	2587.5	2561.1	2587.5	2627.7	2668.0	2718.9
2658.3	45°	2635.4	2577.2	2519.1	2471.8	2424.6	2394.2	2424.6	2471.8	2519.1	2577.2
2545.1	47.5°	2529.1	2477.3	2425.6	2381.8	2338.2	2309.0	2338.2	2381.8	2425.6	2477.3
2466.3	50°	2465.6	2424.2	2382.8	2342.4	2302.0	2274.0	2302.0	2342.4	2382.8	2424.2
2414.2	52.5°	2422.9	2389.2	2355.4	2319.2	2283.1	2257.3	2283.1	2319.2	2355.4	2389.2
2370.8	55°	2382.8	2353.4	2324.0	2292.3	2260.6	2237.2	2260.6	2292.3	2324.0	2353.4
2328.2	57.5°	2340.4	2310.7	2281.0	2249.6	2218.0	2193.8	2218.0	2249.6	2281.0	2310.7
2268.1	60°	2281.5	2252.4	2223.5	2191.1	2158.8	2133.7	2158.8	2191.1	2223.5	2252.4
2174.6	62.5°	2187.5	2161.3	2135.1	2101.0	2066.9	2036.9	2066.9	2101.0	2135.1	2161.3
2047.6	65°	2060.6	2035.4	2010.2	1977.1	1944.2	1918.3	1944.2	1977.1	2010.2	2035.4
1903.1	67.5°	1915.8	1892.6	1869.6	1838.9	1808.1	1784.8	1808.1	1838.9	1869.6	1892.6
1748.7	70°	1761.1	1742.2	1723.3	1693.9	1664.6	1637.9	1664.6	1693.9	1723.3	1742.2
1576.1	72.5°	1590.8	1575.1	1559.4	1531.3	1503.5	1477.6	1503.5	1531.3	1559.4	1575.1
1372.4	75°	1387.7	1380.1	1372.4	1348.8	1325.3	1300.6	1325.3	1348.8	1372.4	1380.1
1176.4	77.5°	1190.7	1180.1	1169.0	1145.3	1121.6	1101.9	1121.6	1145.3	1169.0	1180.1
949.3	80°	968.4	963.7	959.2	927.3	895.2	858.2	895.2	927.3	959.2	963.7
690.5	82.5°	722.9	720.9	718.8	691.9	664.8	641.1	664.8	691.9	718.8	720.9
419.1	85°	459.1	455.8	452.5	431.4	410.4	389.0	410.4	431.4	452.5	455.8
182.8	87.5°	199.0	195.0	190.7	180.0	169.0	158.6	169.0	180.0	190.7	195.0
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°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4012.0	2.5°	4027.8	4043.7	4063.4	4082.9	4108.2	4133.5	4158.7	4184.0	4212.7	4241.6
3767.9	5°	3789.8	3811.6	3843.0	3874.2	3915.0	3955.6	4000.3	4045.0	4095.6	4146.4
3621.0	7.5°	3647.0	3673.1	3710.1	3747.4	3796.9	3846.7	3903.1	3959.4	4026.2	4093.0
3576.6	10°	3605.9	3635.0	3679.6	3724.0	3779.9	3835.8	3896.6	3957.2	4024.0	4090.8
3642.2	12.5°	3679.7	3717.3	3774.1	3830.8	3888.6	3946.5	3994.0	4041.7	4085.8	4130.2
3777.9	15°	3835.0	3892.1	3972.9	4053.7	4104.0	4154.2	4166.6	4178.9	4172.9	4166.9
3908.5	17.5°	3992.6	4076.8	4183.8	4290.8	4331.2	4371.8	4333.2	4294.5	4221.7	4148.9
3987.8	20°	4090.8	4194.0	4316.2	4438.6	4457.4	4476.1	4395.2	4314.2	4187.6	4061.2
3990.6	22.5°	4097.0	4203.2	4320.0	4436.9	4425.7	4414.4	4309.0	4203.7	4059.1	3914.8
3909.8	25°	4004.0	4098.5	4194.1	4290.0	4251.4	4212.7	4109.0	4005.3	3875.4	3745.7
3751.5	27.5°	3824.8	3898.1	3966.2	4034.5	3991.3	3948.2	3865.1	3781.9	3675.4	3568.7
3556.5	30°	3609.3	3661.7	3713.8	3765.7	3730.7	3695.6	3626.5	3557.5	3469.0	3380.6
3360.9	32.5°	3402.8	3444.7	3492.6	3540.3	3501.3	3462.4	3396.1	3330.0	3259.2	3188.6
3188.1	35°	3226.6	3265.4	3299.2	3333.3	3286.6	3239.8	3174.2	3108.7	3055.0	3001.1
3041.1	37.5°	3076.9	3112.4	3128.1	3143.8	3086.0	3028.3	2962.8	2897.5	2859.0	2820.2
2906.4	40°	2936.6	2966.8	2963.2	2959.3	2892.7	2826.3	2763.1	2700.0	2672.2	2644.3
2769.8	42.5°	2795.2	2820.7	2801.5	2782.3	2710.6	2638.8	2578.8	2519.1	2496.2	2473.5
2635.4	45°	2658.3	2681.3	2653.8	2626.2	2551.8	2477.3	2420.5	2363.8	2344.4	2325.4
2529.1	47.5°	2545.1	2561.1	2529.4	2497.7	2424.2	2350.8	2295.3	2239.7	2221.9	2203.8
2465.6	50°	2466.3	2467.3	2426.6	2385.8	2320.0	2254.3	2202.0	2149.6	2121.4	2093.3
2422.9	52.5°	2414.2	2405.5	2357.3	2309.0	2247.6	2186.3	2138.4	2090.3	2048.2	2006.0
2382.8	55°	2370.8	2358.8	2307.5	2256.4	2202.8	2149.1	2097.3	2045.6	1985.8	1925.9
2340.4	57.5°	2328.2	2316.0	2264.6	2213.0	2159.8	2106.7	2045.9	1985.1	1920.7	1856.2
2281.5	60°	2268.1	2254.8	2203.0	2151.2	2097.2	2043.2	1973.4	1903.6	1847.2	1790.6
2187.5	62.5°	2174.6	2161.8	2114.3	2066.9	2009.3	1951.7	1870.3	1788.9	1753.1	1717.2
2060.6	65°	2047.6	2034.4	1992.6	1950.9	1895.8	1840.7	1753.4	1666.2	1652.5	1638.7
1915.8	67.5°	1903.1	1890.3	1854.2	1818.2	1766.1	1713.8	1633.2	1552.7	1557.0	1561.4
1761.1	70°	1748.7	1736.4	1703.8	1671.2	1626.2	1581.1	1510.3	1439.5	1454.5	1469.6
1590.8	72.5°	1576.1	1561.4	1529.5	1497.6	1456.9	1416.1	1360.5	1304.8	1326.6	1348.7
1387.7	75°	1372.4	1357.0	1328.0	1298.9	1262.0	1225.1	1183.7	1142.3	1163.5	1184.6
1190.7	77.5°	1176.4	1162.0	1131.6	1101.1	1069.4	1037.6	1004.1	970.4	991.7	1013.1
968.4	80°	949.3	930.3	907.2	884.0	857.3	830.6	802.7	774.7	792.7	810.6
722.9	82.5°	690.5	658.1	608.7	559.3	568.7	578.0	580.3	582.7	595.4	608.1
459.1	85°	419.1	379.0	332.6	286.3	312.2	338.1	350.3	362.3	376.5	390.7
199.0	87.5°	182.8	166.6	147.1	127.7	147.6	167.3	167.8	168.3	171.0	173.6
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°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4273.4	2.5°	4305.5	4345.1	4380.6	4417.4	4454.1	4492.5	4530.9	4569.0	4607.2	4643.1
4207.0	5°	4267.4	4336.7	4406.8	4481.1	4555.4	4634.9	4714.5	4793.5	4872.7	4952.0
4173.3	7.5°	4253.7	4343.4	4439.1	4542.7	4646.4	4764.1	4881.8	5002.7	5123.6	5254.3
4175.6	10°	4260.4	4356.8	4474.8	4597.7	4720.2	4863.3	5006.2	5165.8	5325.6	5491.1
4199.3	12.5°	4268.8	4358.4	4482.5	4621.2	4760.0	4928.6	5097.2	5278.2	5459.2	5640.8
4200.0	15°	4233.2	4305.0	4442.4	4603.0	4763.6	4957.8	5152.0	5348.3	5544.7	5734.2
4136.9	17.5°	4124.7	4168.9	4330.5	4523.7	4716.9	4942.3	5167.7	5381.9	5596.1	5788.2
4004.5	20°	3947.7	3959.4	4147.6	4387.0	4626.4	4899.5	5172.7	5408.1	5643.5	5843.3
3830.8	22.5°	3746.9	3724.0	3938.2	4226.5	4514.9	4847.1	5179.4	5443.5	5707.4	5911.6
3648.9	25°	3552.0	3490.2	3709.8	4047.4	4385.1	4795.4	5205.7	5507.6	5809.3	6009.1
3475.2	27.5°	3381.7	3306.6	3506.4	3883.6	4260.8	4760.8	5260.8	5607.8	5954.5	6145.4
3306.1	30°	3232.0	3173.0	3340.8	3746.7	4152.6	4744.6	5336.3	5737.5	6138.7	6322.8
3144.6	32.5°	3100.7	3074.5	3209.8	3628.7	4047.4	4724.6	5401.4	5872.9	6344.4	6526.7
2988.9	35°	2976.9	2987.7	3100.4	3512.6	3924.8	4686.8	5449.2	6027.2	6605.2	6780.0
2833.6	37.5°	2847.0	2886.7	2985.2	3376.0	3766.9	4622.2	5477.5	6200.0	6922.4	7145.1
2674.5	40°	2704.7	2765.6	2855.0	3213.1	3571.2	4533.2	5495.4	6419.3	7343.1	7667.7
2513.5	42.5°	2553.6	2630.4	2712.7	3033.3	3353.8	4441.4	5529.3	6706.3	7883.4	8351.9
2364.3	45°	2403.4	2477.6	2561.1	2842.3	3123.4	4356.1	5588.9	7084.0	8579.1	9211.0
2236.6	47.5°	2269.3	2333.2	2440.9	2691.2	2941.5	4285.6	5629.8	7486.4	9342.9	10232.5
2122.2	50°	2151.2	2225.5	2367.1	2590.8	2814.6	4208.8	5603.1	7859.7	10116.3	11457.3
2034.5	52.5°	2063.3	2167.1	2329.9	2524.7	2719.7	4079.1	5438.6	8102.1	10765.4	12743.9
1971.1	55°	2016.5	2173.0	2324.4	2476.8	2629.2	3864.1	5098.9	8048.7	10998.3	13884.5
1922.3	57.5°	1988.5	2178.8	2312.4	2420.0	2527.7	3560.9	4593.8	7672.7	10751.7	14692.9
1876.4	60°	1962.1	2160.4	2248.6	2333.2	2417.9	3167.2	3916.5	6973.0	10029.5	14894.9
1824.2	62.5°	1931.4	2115.4	2126.2	2182.3	2238.6	2696.0	3153.5	6026.8	8900.2	14044.3
1752.7	65°	1866.6	2006.8	2005.5	2032.0	2058.6	2272.1	2485.7	5061.5	7637.5	12840.7
1656.2	67.5°	1751.0	1829.9	1833.5	1818.8	1804.0	1864.7	1925.4	4115.8	6306.3	11408.4
1537.0	70°	1604.5	1630.3	1630.3	1561.7	1492.9	1475.7	1458.4	3240.6	5022.9	9845.5
1394.9	72.5°	1441.2	1440.8	1424.5	1327.1	1229.6	1177.2	1125.0	2477.5	3830.0	8151.2
1220.3	75°	1255.9	1262.2	1186.7	1077.5	968.4	920.9	873.5	1798.1	2722.7	6209.0
1041.6	77.5°	1070.2	1073.5	949.2	843.1	737.1	704.7	672.5	1218.5	1764.4	4345.7
834.6	80°	858.5	859.0	710.4	620.7	530.9	517.6	504.2	785.0	1066.0	2799.9
619.7	82.5°	631.4	624.4	497.5	431.4	365.3	362.6	360.3	482.8	605.7	1620.5
403.2	85°	415.7	406.5	312.2	263.8	215.4	216.7	217.9	258.1	298.5	728.9
178.6	87.5°	183.7	172.0	132.7	112.9	93.2	94.3	95.5	107.0	118.5	238.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4679.0	2.5°	4696.7	4714.5	4739.8	4765.0	4780.0	4795.0	4802.5	4810.0	4806.7	4810.0
5031.3	5°	5093.2	5155.3	5216.8	5278.4	5311.7	5345.1	5365.3	5385.7	5401.1	5385.7
5385.2	7.5°	5486.1	5586.7	5677.4	5768.0	5822.6	5877.2	5906.8	5936.2	5950.4	5936.2
5656.5	10°	5775.7	5894.9	6001.3	6107.6	6172.1	6236.2	6264.9	6293.5	6304.3	6293.5
5822.6	12.5°	5951.9	6080.9	6177.1	6272.9	6319.7	6366.4	6382.1	6397.8	6399.5	6397.8
5923.6	15°	6035.2	6146.5	6206.8	6267.2	6268.9	6270.6	6253.9	6237.2	6217.5	6237.2
5980.4	17.5°	6055.7	6131.0	6132.2	6133.2	6065.6	5997.9	5936.0	5873.9	5830.2	5873.9
6043.0	20°	6069.2	6095.6	6016.3	5937.0	5787.7	5638.5	5529.8	5421.1	5354.3	5421.1
6115.6	22.5°	6081.3	6046.9	5882.6	5718.3	5498.7	5279.2	5143.3	5007.4	4933.6	5007.4
6209.1	25°	6100.6	5992.1	5742.7	5493.2	5226.6	4960.0	4817.1	4674.5	4604.7	4674.5
6336.0	27.5°	6142.0	5947.9	5617.4	5287.2	4991.7	4696.2	4555.6	4415.2	4349.2	4415.2
6507.2	30°	6217.8	5928.7	5521.9	5115.2	4807.4	4499.5	4369.1	4238.7	4177.3	4238.7
6709.2	32.5°	6313.0	5917.0	5456.8	4996.7	4707.4	4418.0	4315.7	4213.2	4168.9	4213.2
6954.6	35°	6469.8	5985.1	5505.6	5026.3	4825.2	4624.4	4600.5	4576.6	4573.0	4576.6
7367.8	37.5°	6797.5	6227.2	5791.4	5355.7	5342.6	5329.6	5438.8	5548.0	5604.8	5548.0
7992.3	40°	7372.0	6751.8	6427.7	6103.6	6332.4	6561.1	6826.6	7092.0	7224.2	7092.0
8820.4	42.5°	8205.0	7589.5	7402.9	7216.2	7715.1	8214.0	8696.8	9179.7	9463.1	9179.7
9843.0	45°	9290.2	8737.2	8654.9	8572.4	9371.7	10171.0	10964.4	11758.0	12239.6	11758.0
11121.9	47.5°	10584.1	10046.2	10029.5	10012.8	11165.8	12318.5	13480.0	14641.3	15323.4	14641.3
12798.1	50°	12133.8	11469.6	11472.5	11475.3	12961.2	14447.2	15980.3	17513.5	18440.4	17513.5
14722.3	52.5°	13917.9	13113.7	13032.4	12950.9	14725.8	16500.7	18397.7	20294.5	21405.6	20294.5
16770.9	55°	15976.2	15181.4	14864.4	14547.3	16522.8	18498.0	20759.5	23020.9	24342.4	23020.9
18634.1	57.5°	18201.4	17768.4	17132.5	16496.7	18491.4	20486.0	23047.5	25608.8	27247.4	25608.8
19760.2	60°	20432.4	21104.8	20315.0	19525.3	21413.0	23300.6	26043.0	28785.5	30556.5	28785.5
19188.4	62.5°	21025.1	22861.8	22772.8	22683.7	24412.8	26142.2	28751.4	31360.4	32997.5	31360.4
18043.9	65°	19767.8	21491.6	21832.7	22173.6	24371.1	26568.8	29098.8	31628.7	33022.5	31628.7
16510.4	67.5°	18149.9	19789.5	19949.4	20109.2	22398.8	24688.3	27229.3	29770.2	30862.1	29770.2
14668.0	70°	16451.3	18234.8	18306.2	18377.8	20425.4	22472.8	24659.4	26845.9	27452.8	26845.9
12472.6	72.5°	14518.9	16565.5	16616.9	16668.2	18270.1	19872.1	21509.8	23147.3	23208.7	23147.3
9695.2	75°	11813.2	13931.3	14121.4	14311.6	15557.9	16804.3	17957.1	19109.9	18801.1	19109.9
6927.1	77.5°	8904.2	10881.4	11153.6	11425.7	12373.2	13320.7	14138.3	14956.0	14425.1	14956.0
4533.7	80°	6197.1	7860.4	8198.6	8536.9	9252.4	9967.7	10397.1	10826.4	9972.4	10826.4
2635.4	82.5°	3772.6	4909.9	5287.7	5665.7	6158.2	6650.7	6829.9	7008.9	6337.7	7008.9
1159.5	85°	1763.1	2366.6	2688.0	3009.4	3414.1	3818.6	3920.3	4022.0	3484.4	4022.0
359.0	87.5°	561.8	764.7	944.0	1123.3	1325.6	1528.0	1536.7	1545.2	1297.3	1545.2
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):

325°		330°	335°	340°	345°	350°	355°	360°
4350.9	0°	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9	4350.9
4802.5	2.5°	4795.0	4780.0	4765.0	4739.8	4714.5	4696.7	4679.0
5365.3	5°	5345.1	5311.7	5278.4	5216.8	5155.3	5093.2	5031.3
5906.8	7.5°	5877.2	5822.6	5768.0	5677.4	5586.7	5486.1	5385.2
6264.9	10°	6236.2	6172.1	6107.6	6001.3	5894.9	5775.7	5656.5
6382.1	12.5°	6366.4	6319.7	6272.9	6177.1	6080.9	5951.9	5822.6
6253.9	15°	6270.6	6268.9	6267.2	6206.8	6146.5	6035.2	5923.6
5936.0	17.5°	5997.9	6065.6	6133.2	6132.2	6131.0	6055.7	5980.4
5529.8	20°	5638.5	5787.7	5937.0	6016.3	6095.6	6069.2	6043.0
5143.3	22.5°	5279.2	5498.7	5718.3	5882.6	6046.9	6081.3	6115.6
4817.1	25°	4960.0	5226.6	5493.2	5742.7	5992.1	6100.6	6209.1
4555.6	27.5°	4696.2	4991.7	5287.2	5617.4	5947.9	6142.0	6336.0
4369.1	30°	4499.5	4807.4	5115.2	5521.9	5928.7	6217.8	6507.2
4315.7	32.5°	4418.0	4707.4	4996.7	5456.8	5917.0	6313.0	6709.2
4600.5	35°	4624.4	4825.2	5026.3	5505.6	5985.1	6469.8	6954.6
5438.8	37.5°	5329.6	5342.6	5355.7	5791.4	6227.2	6797.5	7367.8
6826.6	40°	6561.1	6332.4	6103.6	6427.7	6751.8	7372.0	7992.3
8696.8	42.5°	8214.0	7715.1	7216.2	7402.9	7589.5	8205.0	8820.4
10964.4	45°	10171.0	9371.7	8572.4	8654.9	8737.2	9290.2	9843.0
13480.0	47.5°	12318.5	11165.8	10012.8	10029.5	10046.2	10584.1	11121.9
15980.3	50°	14447.2	12961.2	11475.3	11472.5	11469.6	12133.8	12798.1
18397.7	52.5°	16500.7	14725.8	12950.9	13032.4	13113.7	13917.9	14722.3
20759.5	55°	18498.0	16522.8	14547.3	14864.4	15181.4	15976.2	16770.9
23047.5	57.5°	20486.0	18491.4	16496.7	17132.5	17768.4	18201.4	18634.1
26043.0	60°	23300.6	21413.0	19525.3	20315.0	21104.8	20432.4	19760.2
28751.4	62.5°	26142.2	24412.8	22683.7	22772.8	22861.8	21025.1	19188.4
29098.8	65°	26568.8	24371.1	22173.6	21832.7	21491.6	19767.8	18043.9
27229.3	67.5°	24688.3	22398.8	20109.2	19949.4	19789.5	18149.9	16510.4
24659.4	70°	22472.8	20425.4	18377.8	18306.2	18234.8	16451.3	14668.0
21509.8	72.5°	19872.1	18270.1	16668.2	16616.9	16565.5	14518.9	12472.6
17957.1	75°	16804.3	15557.9	14311.6	14121.4	13931.3	11813.2	9695.2
14138.3	77.5°	13320.7	12373.2	11425.7	11153.6	10881.4	8904.2	6927.1
10397.1	80°	9967.7	9252.4	8536.9	8198.6	7860.4	6197.1	4533.7
6829.9	82.5°	6650.7	6158.2	5665.7	5287.7	4909.9	3772.6	2635.4
3920.3	85°	3818.6	3414.1	3009.4	2688.0	2366.6	1763.1	1159.5
1536.7	87.5°	1528.0	1325.6	1123.3	944.0	764.7	561.8	359.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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