

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: P951016

Luminaire Tested: **GALN-SB5B-750-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951016
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-SB5B-750-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29986 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

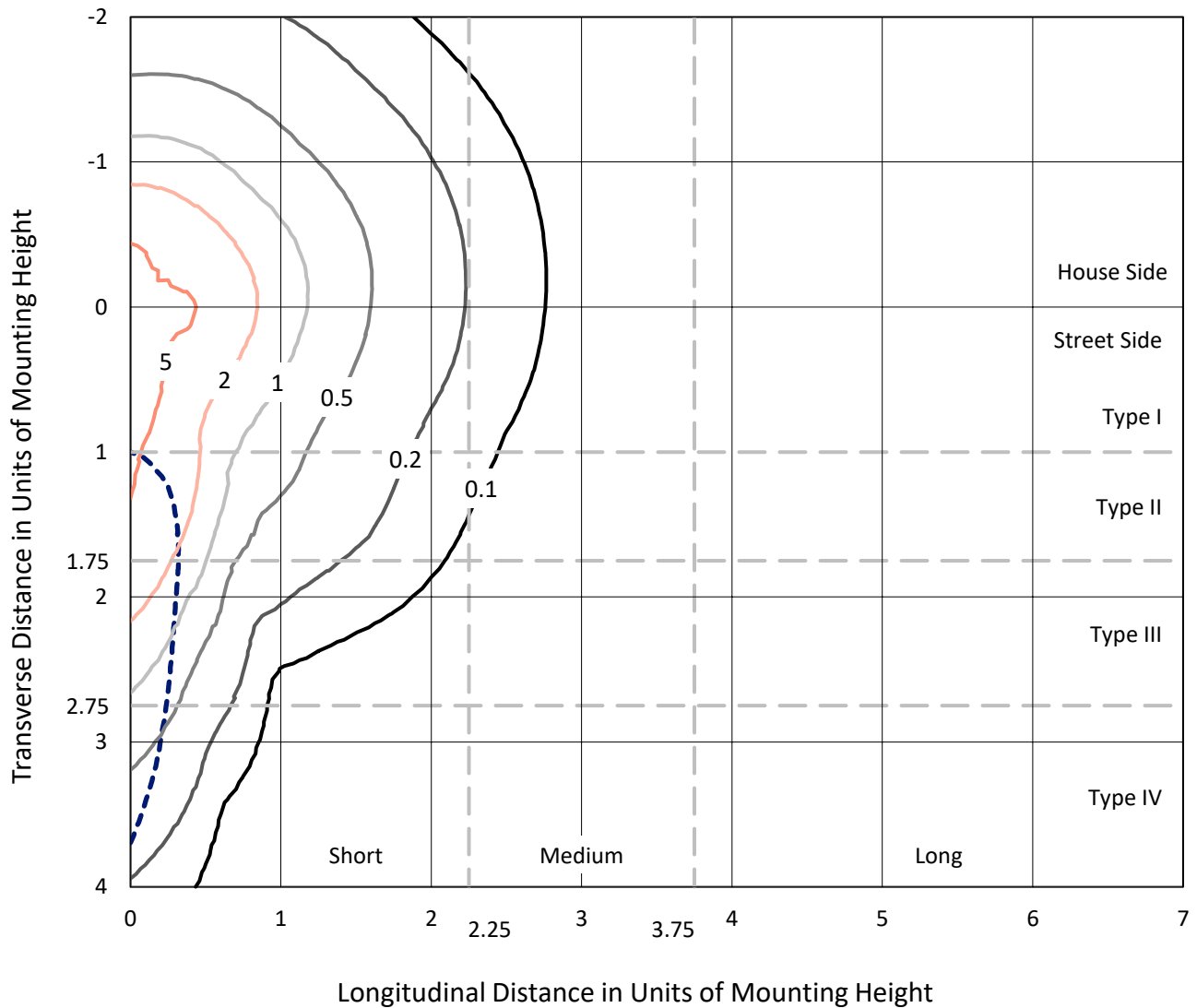
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

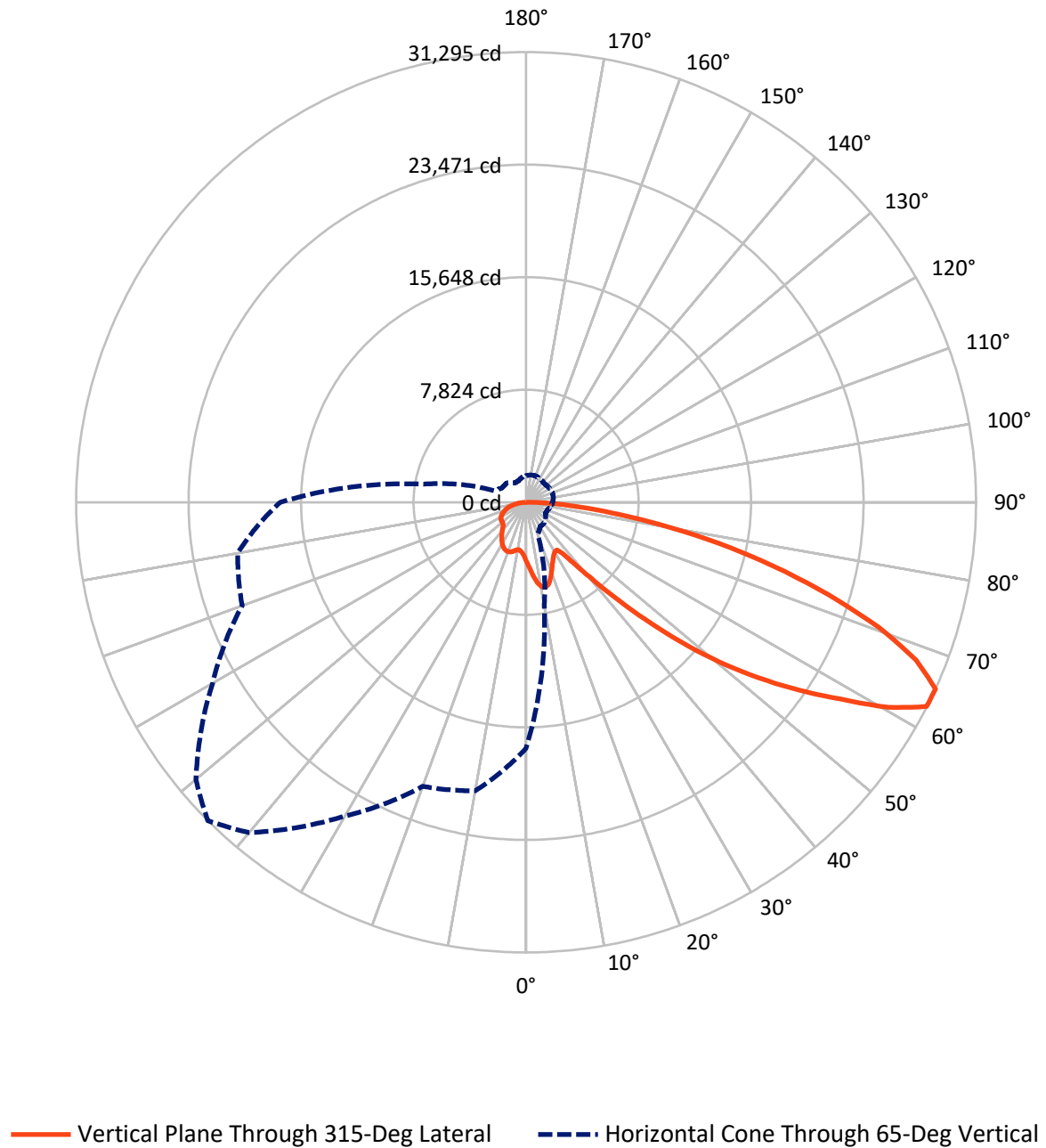
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	7620.9	0.0	7620.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	22365.1	0.0	22365.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	29986.0	0.0	29986.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.0	1.4
10°-20°	1284.0	4.3
20°-30°	1983.4	6.6
30°-40°	2513.4	8.4
40°-50°	3790.9	12.6
50°-60°	6124.8	20.4
60°-70°	7635.5	25.5
70°-80°	5007.0	16.7
80°-90°	1237.9	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°	29986.0	100.0
0°-180°	29986.0	100.0



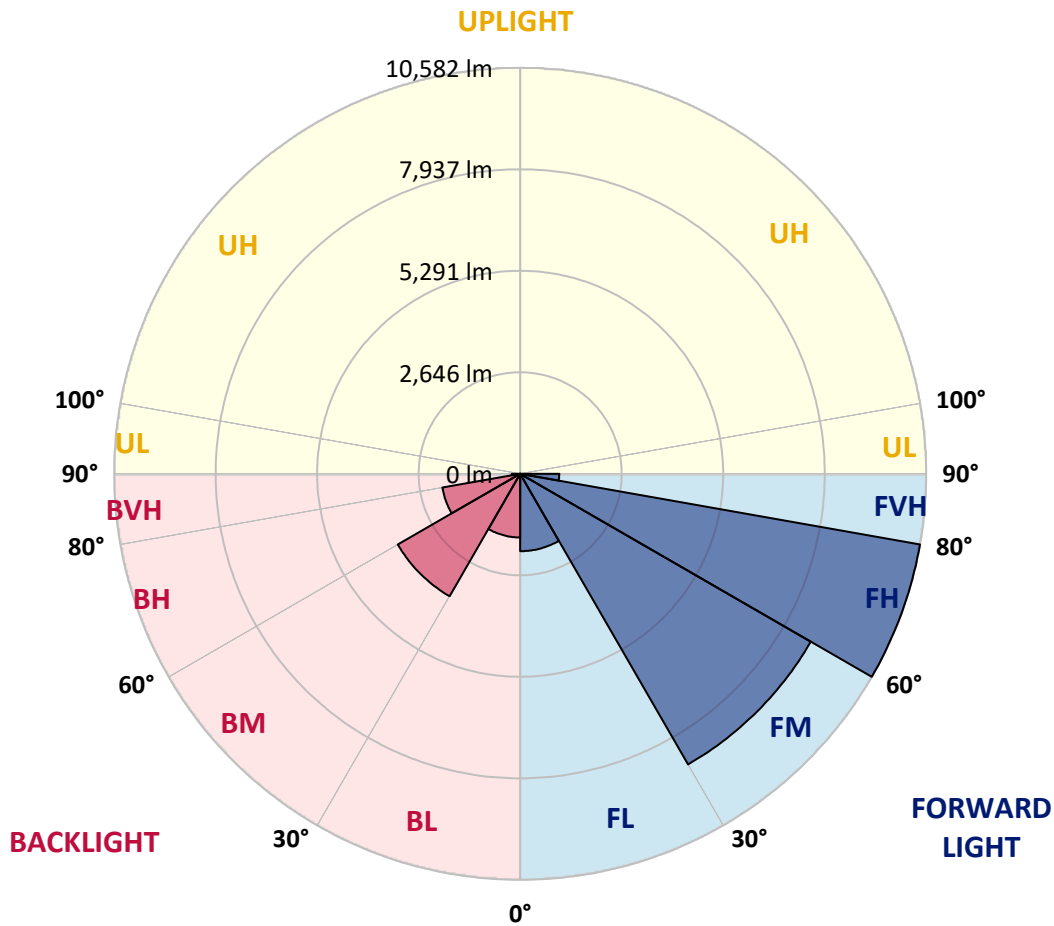
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.9	6.7			
FM (30°-60°)	8746.3	29.2			
FH (60°-80°)	10582.2	35.3			G4/12000
FVH (80°-90°)	1019.7	3.4			G5
BL (0°-30°)	1659.6	5.5	B3/2500		
BM (30°-60°)	3682.9	12.3	B3/5000		
BH (60°-80°)	2060.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	218.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4434.2	4400.2	4366.2	4330.0	4293.9	4257.5	4221.1	4186.3	4151.5	4117.8
5°	4768.1	4692.9	4617.8	4542.8	4467.9	4392.5	4317.2	4246.7	4176.3	4109.9
7.5°	5103.5	4979.5	4855.6	4741.0	4626.5	4514.9	4403.4	4305.1	4206.9	4116.2
10°	5360.6	5203.8	5047.0	4895.6	4744.4	4608.9	4473.3	4357.2	4240.7	4128.9
12.5°	5518.1	5345.8	5173.6	5002.1	4830.6	4670.8	4511.0	4379.5	4248.0	4130.5
15°	5613.8	5434.2	5254.6	5068.6	4882.5	4698.5	4514.5	4362.3	4210.0	4079.8
17.5°	5667.6	5485.5	5303.4	5100.4	4897.4	4683.8	4470.2	4287.1	4104.0	3950.9
20°	5726.9	5537.7	5348.3	5125.2	4902.1	4643.3	4384.4	4157.5	3930.6	3752.3
22.5°	5795.8	5602.4	5408.9	5158.8	4908.4	4593.6	4278.7	4005.5	3732.2	3529.2
25°	5884.4	5694.8	5505.4	5219.5	4933.4	4544.5	4155.8	3835.7	3515.8	3307.7
27.5°	6004.6	5823.9	5643.1	5314.4	4985.7	4511.8	4037.9	3680.5	3323.0	3133.6
30°	6166.8	5992.1	5817.6	5437.4	5057.2	4496.4	3935.4	3550.7	3166.1	3007.1
32.5°	6358.3	6185.3	6012.5	5565.7	5118.9	4477.4	3835.7	3438.9	3041.9	2913.7
35°	6590.8	6425.3	6259.7	5711.9	5164.1	4441.7	3719.5	3328.9	2938.2	2831.4
37.5°	6982.5	6771.4	6560.3	5875.7	5191.0	4380.4	3569.9	3199.5	2829.1	2735.7
40°	7574.2	7266.6	6959.0	6083.6	5208.0	4296.1	3384.4	3045.0	2705.6	2621.0
42.5°	8359.0	7915.0	7471.0	6355.6	5240.1	4209.1	3178.4	2874.6	2570.8	2492.8
45°	9328.1	8729.3	8130.4	6713.5	5296.6	4128.2	2960.1	2693.6	2427.2	2348.1
47.5°	10540.1	9697.3	8854.2	7094.8	5335.3	4061.5	2787.6	2550.4	2313.2	2211.2
50°	12128.7	10858.0	9587.1	7448.6	5310.0	3988.7	2667.4	2455.3	2243.3	2109.1
52.5°	13952.2	12077.3	10202.3	7678.3	5154.2	3865.7	2577.5	2392.7	2208.0	2053.8
55°	15893.7	13158.3	10423.0	7627.7	4832.2	3662.0	2491.7	2347.3	2202.8	2059.3
57.5°	17659.4	13924.4	10189.3	7271.4	4353.6	3374.6	2395.5	2293.5	2191.4	2064.8
60°	18726.7	14115.9	9504.9	6608.3	3711.6	3001.5	2291.4	2211.2	2131.0	2047.4
62.5°	18184.8	13309.7	8434.6	5711.6	2988.5	2555.0	2121.5	2068.2	2015.0	2004.7
65°	17100.1	12169.1	7238.0	4796.7	2355.6	2153.3	1950.9	1925.8	1900.6	1901.9
67.5°	15646.8	10811.6	5976.5	3900.6	1824.6	1767.2	1709.6	1723.7	1737.6	1734.1
70°	13900.8	9330.5	4760.2	3071.1	1382.1	1398.5	1414.8	1480.0	1545.1	1545.1
72.5°	11820.2	7724.8	3629.7	2347.9	1066.1	1115.6	1165.3	1257.7	1350.0	1365.5
75°	9188.1	5884.2	2580.3	1704.1	827.8	872.8	917.7	1021.2	1124.7	1196.2
77.5°	6564.7	4118.4	1672.1	1154.7	637.3	667.9	698.6	799.0	899.5	1017.4
80°	4296.6	2653.4	1010.3	744.0	477.8	490.5	503.2	588.3	673.2	814.1
82.5°	2497.6	1535.7	574.0	457.6	341.4	343.7	346.2	408.9	471.5	591.8
85°	1098.9	690.8	282.9	244.6	206.5	205.4	204.1	250.0	295.9	385.3
87.5°	340.2	226.3	112.3	101.4	90.5	89.4	88.3	107.0	125.8	163.0
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°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
4080.3	2.5°	4049.9	4019.7	3992.3	3965.1	3941.2	3917.3	3893.3	3869.4	3850.9	3832.2
4044.2	5°	3986.9	3929.5	3881.4	3833.5	3791.1	3748.7	3710.2	3671.6	3642.0	3612.3
4031.2	7.5°	3955.0	3878.9	3815.6	3752.3	3699.0	3645.5	3598.3	3551.4	3516.1	3480.9
4037.6	10°	3957.2	3876.8	3813.5	3750.2	3692.8	3635.2	3582.2	3529.2	3487.1	3444.9
4045.5	12.5°	3979.7	3914.2	3872.1	3830.3	3785.0	3740.1	3685.2	3630.5	3576.7	3522.9
4011.8	15°	3980.3	3949.0	3954.7	3960.4	3948.7	3936.9	3889.3	3841.7	3765.1	3688.5
3908.9	17.5°	3920.5	3931.9	4000.9	4069.9	4106.6	4143.1	4104.7	4066.4	3965.0	3863.5
3741.2	20°	3795.0	3848.8	3968.6	4088.5	4165.3	4242.0	4224.3	4206.4	4090.4	3974.6
3550.9	22.5°	3630.5	3710.1	3846.8	3983.8	4083.6	4183.5	4194.2	4204.8	4094.1	3983.3
3366.2	25°	3458.0	3549.8	3672.7	3795.8	3894.1	3992.3	4029.0	4065.6	3974.8	3884.1
3204.8	27.5°	3293.4	3382.1	3483.2	3584.1	3662.9	3741.7	3782.5	3823.5	3758.8	3694.2
3062.9	30°	3133.2	3203.7	3287.6	3371.4	3436.8	3502.3	3535.5	3568.8	3519.5	3470.2
2938.5	32.5°	2980.2	3021.8	3088.7	3155.8	3218.4	3281.3	3318.1	3355.2	3309.9	3264.5
2821.1	35°	2832.5	2844.1	2895.2	2946.1	3008.2	3070.3	3114.7	3159.0	3126.7	3094.6
2698.0	37.5°	2685.4	2672.7	2709.4	2746.0	2807.9	2869.9	2924.6	2979.4	2964.5	2949.6
2563.2	40°	2534.6	2506.0	2532.4	2558.8	2618.6	2678.4	2741.4	2804.5	2808.2	2811.7
2420.0	42.5°	2382.1	2344.1	2365.6	2387.3	2443.9	2500.7	2568.8	2636.8	2655.0	2673.2
2277.6	45°	2240.6	2203.8	2221.8	2240.1	2293.9	2347.7	2418.3	2488.9	2515.0	2541.1
2150.6	47.5°	2119.6	2088.6	2105.7	2122.6	2175.3	2227.8	2297.4	2367.0	2397.1	2427.2
2038.7	50°	2011.2	1983.8	2010.4	2037.1	2086.8	2136.3	2198.7	2261.0	2299.6	2338.2
1955.3	52.5°	1928.1	1901.1	1941.1	1981.0	2026.5	2072.0	2130.0	2188.2	2234.0	2279.7
1911.0	55°	1868.0	1825.1	1881.9	1938.6	1987.6	2036.7	2087.6	2138.4	2186.8	2235.4
1884.5	57.5°	1821.8	1759.1	1820.2	1881.3	1938.9	1996.5	2046.8	2097.3	2146.2	2194.9
1859.5	60°	1778.3	1697.0	1750.6	1804.1	1870.2	1936.4	1987.5	2038.7	2087.8	2136.8
1830.3	62.5°	1728.8	1627.3	1661.4	1695.4	1772.4	1849.6	1904.2	1958.8	2003.8	2048.7
1769.0	65°	1661.0	1553.0	1566.1	1579.1	1661.7	1744.4	1796.6	1848.9	1888.4	1928.0
1659.5	67.5°	1569.6	1479.7	1475.6	1471.5	1547.8	1624.2	1673.7	1723.1	1757.2	1791.4
1520.5	70°	1456.6	1392.7	1378.5	1364.2	1431.3	1498.4	1541.1	1583.8	1614.7	1645.5
1365.8	72.5°	1322.0	1278.1	1257.3	1236.5	1289.4	1342.1	1380.7	1419.3	1449.5	1479.7
1190.2	75°	1156.5	1122.6	1102.7	1082.6	1121.8	1161.1	1196.0	1231.0	1258.5	1286.0
1014.2	77.5°	987.2	960.1	939.9	919.6	951.6	983.4	1013.4	1043.5	1072.4	1101.2
813.6	80°	791.0	768.2	751.3	734.2	760.7	787.2	812.5	837.8	859.8	881.6
598.4	82.5°	587.3	576.3	564.2	552.2	550.0	547.8	538.9	530.1	576.9	623.7
394.0	85°	382.1	370.2	356.8	343.3	332.0	320.4	295.9	271.4	315.2	359.2
174.0	87.5°	169.3	164.6	162.0	159.5	159.0	158.5	139.9	121.0	139.4	157.9
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°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
3817.2	2.5°	3802.1	3790.4	3778.7	3768.0	3757.0	3743.6	3757.0	3768.0	3778.7	3790.4
3591.5	5°	3570.8	3556.1	3541.4	3530.1	3518.9	3507.8	3518.9	3530.1	3541.4	3556.1
3456.3	7.5°	3431.6	3414.6	3397.9	3387.7	3377.8	3370.2	3377.8	3387.7	3397.9	3414.6
3417.3	10°	3389.5	3373.5	3357.5	3349.0	3340.4	3337.0	3340.4	3349.0	3357.5	3373.5
3487.3	12.5°	3451.7	3433.8	3416.1	3408.8	3401.5	3400.2	3401.5	3408.8	3416.1	3433.8
3634.4	15°	3580.3	3555.5	3530.8	3521.3	3511.8	3511.0	3511.8	3521.3	3530.8	3555.5
3783.8	17.5°	3704.0	3667.3	3630.5	3618.4	3606.3	3604.4	3606.3	3618.4	3630.5	3667.3
3876.8	20°	3779.2	3732.2	3685.1	3670.0	3655.0	3650.2	3655.0	3670.0	3685.1	3732.2
3882.7	22.5°	3781.9	3732.4	3682.7	3666.1	3649.5	3642.3	3649.5	3666.1	3682.7	3732.4
3794.5	25°	3705.3	3662.3	3619.4	3603.7	3588.2	3579.0	3588.2	3603.7	3619.4	3662.3
3624.8	27.5°	3555.3	3526.5	3497.6	3490.4	3483.3	3480.9	3483.3	3490.4	3497.6	3526.5
3420.5	30°	3370.5	3355.8	3340.9	3340.9	3340.9	3343.3	3340.9	3340.9	3340.9	3355.8
3224.8	32.5°	3185.1	3175.4	3165.8	3167.0	3168.4	3170.8	3168.4	3167.0	3165.8	3175.4
3057.8	35°	3021.3	3006.6	2992.0	2988.9	2985.7	2984.1	2985.7	2988.9	2992.0	3006.6
2915.9	37.5°	2882.1	2855.3	2828.7	2814.7	2800.6	2792.7	2800.6	2814.7	2828.7	2855.3
2783.0	40°	2754.4	2715.5	2676.8	2650.6	2624.6	2609.1	2624.6	2650.6	2676.8	2715.5
2649.0	42.5°	2624.9	2576.7	2528.4	2490.3	2452.2	2427.2	2452.2	2490.3	2528.4	2576.7
2519.3	45°	2497.6	2442.4	2387.3	2342.5	2297.7	2268.9	2297.7	2342.5	2387.3	2442.4
2412.0	47.5°	2396.8	2347.7	2298.7	2257.2	2215.9	2188.2	2215.9	2257.2	2298.7	2347.7
2337.3	50°	2336.7	2297.4	2258.2	2219.9	2181.6	2155.0	2181.6	2219.9	2258.2	2297.4
2287.9	52.5°	2296.2	2264.2	2232.2	2197.9	2163.7	2139.2	2163.7	2197.9	2232.2	2264.2
2246.8	55°	2258.2	2230.3	2202.5	2172.4	2142.4	2120.2	2142.4	2172.4	2202.5	2230.3
2206.4	57.5°	2218.0	2189.8	2161.7	2131.9	2102.0	2079.1	2102.0	2131.9	2161.7	2189.8
2149.5	60°	2162.1	2134.6	2107.2	2076.5	2045.8	2022.1	2045.8	2076.5	2107.2	2134.6
2060.9	62.5°	2073.1	2048.2	2023.4	1991.1	1958.8	1930.3	1958.8	1991.1	2023.4	2048.2
1940.5	65°	1952.8	1928.9	1905.0	1873.7	1842.5	1818.0	1842.5	1873.7	1905.0	1928.9
1803.6	67.5°	1815.6	1793.6	1771.8	1742.7	1713.6	1691.4	1713.6	1742.7	1771.8	1793.6
1657.2	70°	1669.0	1651.1	1633.2	1605.3	1577.5	1552.2	1577.5	1605.3	1633.2	1651.1
1493.6	72.5°	1507.6	1492.7	1477.8	1451.2	1424.8	1400.3	1424.8	1451.2	1477.8	1492.7
1300.6	75°	1315.2	1307.9	1300.6	1278.3	1256.0	1232.6	1256.0	1278.3	1300.6	1307.9
1114.9	77.5°	1128.5	1118.3	1107.9	1085.4	1063.0	1044.3	1063.0	1085.4	1107.9	1118.3
899.7	80°	917.7	913.3	909.0	878.8	848.4	813.3	848.4	878.8	909.0	913.3
654.4	82.5°	685.1	683.2	681.2	655.7	630.1	607.6	630.1	655.7	681.2	683.2
397.1	85°	435.1	432.0	428.8	408.9	388.9	368.7	388.9	408.9	428.8	432.0
173.3	87.5°	188.6	184.8	180.7	170.6	160.1	150.3	160.1	170.6	180.7	184.8
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
3802.1	2.5°	3817.2	3832.2	3850.9	3869.4	3893.3	3917.3	3941.2	3965.1	3992.3	4019.7
3570.8	5°	3591.5	3612.3	3642.0	3671.6	3710.2	3748.7	3791.1	3833.5	3881.4	3929.5
3431.6	7.5°	3456.3	3480.9	3516.1	3551.4	3598.3	3645.5	3699.0	3752.3	3815.6	3878.9
3389.5	10°	3417.3	3444.9	3487.1	3529.2	3582.2	3635.2	3692.8	3750.2	3813.5	3876.8
3451.7	12.5°	3487.3	3522.9	3576.7	3630.5	3685.2	3740.1	3785.0	3830.3	3872.1	3914.2
3580.3	15°	3634.4	3688.5	3765.1	3841.7	3889.3	3936.9	3948.7	3960.4	3954.7	3949.0
3704.0	17.5°	3783.8	3863.5	3965.0	4066.4	4104.7	4143.1	4106.6	4069.9	4000.9	3931.9
3779.2	20°	3876.8	3974.6	4090.4	4206.4	4224.3	4242.0	4165.3	4088.5	3968.6	3848.8
3781.9	22.5°	3882.7	3983.3	4094.1	4204.8	4194.2	4183.5	4083.6	3983.8	3846.8	3710.1
3705.3	25°	3794.5	3884.1	3974.8	4065.6	4029.0	3992.3	3894.1	3795.8	3672.7	3549.8
3555.3	27.5°	3624.8	3694.2	3758.8	3823.5	3782.5	3741.7	3662.9	3584.1	3483.2	3382.1
3370.5	30°	3420.5	3470.2	3519.5	3568.8	3535.5	3502.3	3436.8	3371.4	3287.6	3203.7
3185.1	32.5°	3224.8	3264.5	3309.9	3355.2	3318.1	3281.3	3218.4	3155.8	3088.7	3021.8
3021.3	35°	3057.8	3094.6	3126.7	3159.0	3114.7	3070.3	3008.2	2946.1	2895.2	2844.1
2882.1	37.5°	2915.9	2949.6	2964.5	2979.4	2924.6	2869.9	2807.9	2746.0	2709.4	2672.7
2754.4	40°	2783.0	2811.7	2808.2	2804.5	2741.4	2678.4	2618.6	2558.8	2532.4	2506.0
2624.9	42.5°	2649.0	2673.2	2655.0	2636.8	2568.8	2500.7	2443.9	2387.3	2365.6	2344.1
2497.6	45°	2519.3	2541.1	2515.0	2488.9	2418.3	2347.7	2293.9	2240.1	2221.8	2203.8
2396.8	47.5°	2412.0	2427.2	2397.1	2367.0	2297.4	2227.8	2175.3	2122.6	2105.7	2088.6
2336.7	50°	2337.3	2338.2	2299.6	2261.0	2198.7	2136.3	2086.8	2037.1	2010.4	1983.8
2296.2	52.5°	2287.9	2279.7	2234.0	2188.2	2130.0	2072.0	2026.5	1981.0	1941.1	1901.1
2258.2	55°	2246.8	2235.4	2186.8	2138.4	2087.6	2036.7	1987.6	1938.6	1881.9	1825.1
2218.0	57.5°	2206.4	2194.9	2146.2	2097.3	2046.8	1996.5	1938.9	1881.3	1820.2	1759.1
2162.1	60°	2149.5	2136.8	2087.8	2038.7	1987.5	1936.4	1870.2	1804.1	1750.6	1697.0
2073.1	62.5°	2060.9	2048.7	2003.8	1958.8	1904.2	1849.6	1772.4	1695.4	1661.4	1627.3
1952.8	65°	1940.5	1928.0	1888.4	1848.9	1796.6	1744.4	1661.7	1579.1	1566.1	1553.0
1815.6	67.5°	1803.6	1791.4	1757.2	1723.1	1673.7	1624.2	1547.8	1471.5	1475.6	1479.7
1669.0	70°	1657.2	1645.5	1614.7	1583.8	1541.1	1498.4	1431.3	1364.2	1378.5	1392.7
1507.6	72.5°	1493.6	1479.7	1449.5	1419.3	1380.7	1342.1	1289.4	1236.5	1257.3	1278.1
1315.2	75°	1300.6	1286.0	1258.5	1231.0	1196.0	1161.1	1121.8	1082.6	1102.7	1122.6
1128.5	77.5°	1114.9	1101.2	1072.4	1043.5	1013.4	983.4	951.6	919.6	939.9	960.1
917.7	80°	899.7	881.6	859.8	837.8	812.5	787.2	760.7	734.2	751.3	768.2
685.1	82.5°	654.4	623.7	576.9	530.1	538.9	547.8	550.0	552.2	564.2	576.3
435.1	85°	397.1	359.2	315.2	271.4	295.9	320.4	332.0	343.3	356.8	370.2
188.6	87.5°	173.3	157.9	139.4	121.0	139.9	158.5	159.0	159.5	162.0	164.6
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°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
4049.9	2.5°	4080.3	4117.8	4151.5	4186.3	4221.1	4257.5	4293.9	4330.0	4366.2	4400.2
3986.9	5°	4044.2	4109.9	4176.3	4246.7	4317.2	4392.5	4467.9	4542.8	4617.8	4692.9
3955.0	7.5°	4031.2	4116.2	4206.9	4305.1	4403.4	4514.9	4626.5	4741.0	4855.6	4979.5
3957.2	10°	4037.6	4128.9	4240.7	4357.2	4473.3	4608.9	4744.4	4895.6	5047.0	5203.8
3979.7	12.5°	4045.5	4130.5	4248.0	4379.5	4511.0	4670.8	4830.6	5002.1	5173.6	5345.8
3980.3	15°	4011.8	4079.8	4210.0	4362.3	4514.5	4698.5	4882.5	5068.6	5254.6	5434.2
3920.5	17.5°	3908.9	3950.9	4104.0	4287.1	4470.2	4683.8	4897.4	5100.4	5303.4	5485.5
3795.0	20°	3741.2	3752.3	3930.6	4157.5	4384.4	4643.3	4902.1	5125.2	5348.3	5537.7
3630.5	22.5°	3550.9	3529.2	3732.2	4005.5	4278.7	4593.6	4908.4	5158.8	5408.9	5602.4
3458.0	25°	3366.2	3307.7	3515.8	3835.7	4155.8	4544.5	4933.4	5219.5	5505.4	5694.8
3293.4	27.5°	3204.8	3133.6	3323.0	3680.5	4037.9	4511.8	4985.7	5314.4	5643.1	5823.9
3133.2	30°	3062.9	3007.1	3166.1	3550.7	3935.4	4496.4	5057.2	5437.4	5817.6	5992.1
2980.2	32.5°	2938.5	2913.7	3041.9	3438.9	3835.7	4477.4	5118.9	5565.7	6012.5	6185.3
2832.5	35°	2821.1	2831.4	2938.2	3328.9	3719.5	4441.7	5164.1	5711.9	6259.7	6425.3
2685.4	37.5°	2698.0	2735.7	2829.1	3199.5	3569.9	4380.4	5191.0	5875.7	6560.3	6771.4
2534.6	40°	2563.2	2621.0	2705.6	3045.0	3384.4	4296.1	5208.0	6083.6	6959.0	7266.6
2382.1	42.5°	2420.0	2492.8	2570.8	2874.6	3178.4	4209.1	5240.1	6355.6	7471.0	7915.0
2240.6	45°	2277.6	2348.1	2427.2	2693.6	2960.1	4128.2	5296.6	6713.5	8130.4	8729.3
2119.6	47.5°	2150.6	2211.2	2313.2	2550.4	2787.6	4061.5	5335.3	7094.8	8854.2	9697.3
2011.2	50°	2038.7	2109.1	2243.3	2455.3	2667.4	3988.7	5310.0	7448.6	9587.1	10858.0
1928.1	52.5°	1955.3	2053.8	2208.0	2392.7	2577.5	3865.7	5154.2	7678.3	10202.3	12077.3
1868.0	55°	1911.0	2059.3	2202.8	2347.3	2491.7	3662.0	4832.2	7627.7	10423.0	13158.3
1821.8	57.5°	1884.5	2064.8	2191.4	2293.5	2395.5	3374.6	4353.6	7271.4	10189.3	13924.4
1778.3	60°	1859.5	2047.4	2131.0	2211.2	2291.4	3001.5	3711.6	6608.3	9504.9	14115.9
1728.8	62.5°	1830.3	2004.7	2015.0	2068.2	2121.5	2555.0	2988.5	5711.6	8434.6	13309.7
1661.0	65°	1769.0	1901.9	1900.6	1925.8	1950.9	2153.3	2355.6	4796.7	7238.0	12169.1
1569.6	67.5°	1659.5	1734.1	1737.6	1723.7	1709.6	1767.2	1824.6	3900.6	5976.5	10811.6
1456.6	70°	1520.5	1545.1	1545.1	1480.0	1414.8	1398.5	1382.1	3071.1	4760.2	9330.5
1322.0	72.5°	1365.8	1365.5	1350.0	1257.7	1165.3	1115.6	1066.1	2347.9	3629.7	7724.8
1156.5	75°	1190.2	1196.2	1124.7	1021.2	917.7	872.8	827.8	1704.1	2580.3	5884.2
987.2	77.5°	1014.2	1017.4	899.5	799.0	698.6	667.9	637.3	1154.7	1672.1	4118.4
791.0	80°	813.6	814.1	673.2	588.3	503.2	490.5	477.8	744.0	1010.3	2653.4
587.3	82.5°	598.4	591.8	471.5	408.9	346.2	343.7	341.4	457.6	574.0	1535.7
382.1	85°	394.0	385.3	295.9	250.0	204.1	205.4	206.5	244.6	282.9	690.8
169.3	87.5°	174.0	163.0	125.8	107.0	88.3	89.4	90.5	101.4	112.3	226.3
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°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
4434.2	2.5°	4451.0	4467.9	4491.8	4515.7	4530.0	4544.2	4551.3	4558.5	4555.3	4558.5
4768.1	5°	4826.8	4885.7	4943.9	5002.3	5033.9	5065.6	5084.7	5104.0	5118.6	5104.0
5103.5	7.5°	5199.1	5294.5	5380.4	5466.3	5518.1	5569.8	5597.8	5625.7	5639.1	5625.7
5360.6	10°	5473.6	5586.6	5687.4	5788.2	5849.2	5910.0	5937.2	5964.3	5974.6	5964.3
5518.1	12.5°	5640.5	5762.9	5854.0	5944.8	5989.1	6033.4	6048.3	6063.2	6064.7	6063.2
5613.8	15°	5719.5	5825.0	5882.2	5939.4	5941.0	5942.6	5926.8	5911.0	5892.3	5911.0
5667.6	17.5°	5739.0	5810.3	5811.4	5812.4	5748.3	5684.2	5625.5	5566.7	5525.2	5566.7
5726.9	20°	5751.8	5776.8	5701.6	5626.5	5485.0	5343.6	5240.6	5137.6	5074.3	5137.6
5795.8	22.5°	5763.2	5730.6	5574.9	5419.2	5211.1	5003.1	4874.3	4745.5	4675.5	4745.5
5884.4	25°	5781.5	5678.7	5442.3	5205.9	4953.2	4700.5	4565.1	4430.0	4363.8	4430.0
6004.6	27.5°	5820.8	5636.8	5323.6	5010.7	4730.6	4450.5	4317.3	4184.2	4121.8	4184.2
6166.8	30°	5892.6	5618.6	5233.1	4847.7	4555.9	4264.2	4140.6	4017.0	3958.8	4017.0
6358.3	32.5°	5982.8	5607.5	5171.4	4735.3	4461.1	4186.9	4089.9	3992.8	3950.9	3992.8
6590.8	35°	6131.4	5672.0	5217.6	4763.4	4572.8	4382.5	4359.9	4337.3	4333.8	4337.3
6982.5	37.5°	6442.0	5901.5	5488.5	5075.5	5063.2	5050.8	5154.3	5257.8	5311.6	5257.8
7574.2	40°	6986.4	6398.6	6091.5	5784.4	6001.1	6217.9	6469.5	6721.1	6846.4	6721.1
8359.0	42.5°	7775.8	7192.6	7015.7	6838.8	7311.6	7784.3	8241.9	8699.5	8968.2	8699.5
9328.1	45°	8804.3	8280.2	8202.2	8124.0	8881.5	9639.0	10390.9	11143.0	11599.4	11143.0
10540.1	47.5°	10030.5	9520.7	9504.9	9489.0	10581.7	11674.1	12774.9	13875.5	14521.9	13875.5
12128.7	50°	11499.1	10869.7	10872.4	10875.1	12283.3	13691.5	15144.5	16597.4	17475.9	16597.4
13952.2	52.5°	13189.9	12427.8	12350.7	12273.5	13955.6	15637.7	17435.4	19233.0	20286.0	19233.0
15893.7	55°	15140.5	14387.4	14086.9	13786.4	15658.5	17530.5	19673.6	21816.8	23069.1	21816.8
17659.4	57.5°	17249.3	16839.1	16236.4	15633.9	17524.2	19414.5	21842.0	24269.3	25822.3	24269.3
18726.7	60°	19363.7	20000.9	19252.5	18504.1	20292.9	22081.8	24680.8	27279.8	28958.3	27279.8
18184.8	62.5°	19925.4	21666.0	21581.7	21497.2	23135.9	24774.8	27247.5	29720.1	31271.5	29720.1
17100.1	65°	18733.8	20367.5	20690.7	21013.8	23096.4	25179.1	27576.8	29974.4	31295.2	29974.4
15646.8	67.5°	17200.6	18754.4	18905.9	19057.4	21227.3	23397.0	25805.0	28213.0	29247.8	28213.0
13900.8	70°	15590.8	17281.0	17348.7	17416.6	19357.0	21297.3	23369.6	25441.7	26016.9	25441.7
11820.2	72.5°	13759.5	15699.0	15747.8	15796.4	17314.5	18832.7	20384.7	21936.6	21994.8	21936.6
9188.1	75°	11195.3	13202.6	13382.8	13563.0	14744.2	15925.3	17017.8	18110.4	17817.7	18110.4
6564.7	77.5°	8438.4	10312.3	10570.2	10828.1	11726.0	12624.0	13398.8	14173.8	13670.6	14173.8
4296.6	80°	5873.0	7449.2	7769.8	8090.3	8768.5	9446.3	9853.3	10260.1	9450.8	10260.1
2497.6	82.5°	3575.2	4653.1	5011.1	5369.4	5836.1	6302.9	6472.7	6642.3	6006.2	6642.3
1098.9	85°	1670.9	2242.8	2547.4	2852.0	3235.5	3618.9	3715.3	3811.6	3302.1	3811.6
340.2	87.5°	532.4	724.7	894.6	1064.5	1256.3	1448.1	1456.3	1464.4	1229.4	1464.4
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):

325°		330°	335°	340°	345°	350°	355°	360°
4123.3	0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
4551.3	2.5°	4544.2	4530.0	4515.7	4491.8	4467.9	4451.0	4434.2
5084.7	5°	5065.6	5033.9	5002.3	4943.9	4885.7	4826.8	4768.1
5597.8	7.5°	5569.8	5518.1	5466.3	5380.4	5294.5	5199.1	5103.5
5937.2	10°	5910.0	5849.2	5788.2	5687.4	5586.6	5473.6	5360.6
6048.3	12.5°	6033.4	5989.1	5944.8	5854.0	5762.9	5640.5	5518.1
5926.8	15°	5942.6	5941.0	5939.4	5882.2	5825.0	5719.5	5613.8
5625.5	17.5°	5684.2	5748.3	5812.4	5811.4	5810.3	5739.0	5667.6
5240.6	20°	5343.6	5485.0	5626.5	5701.6	5776.8	5751.8	5726.9
4874.3	22.5°	5003.1	5211.1	5419.2	5574.9	5730.6	5763.2	5795.8
4565.1	25°	4700.5	4953.2	5205.9	5442.3	5678.7	5781.5	5884.4
4317.3	27.5°	4450.5	4730.6	5010.7	5323.6	5636.8	5820.8	6004.6
4140.6	30°	4264.2	4555.9	4847.7	5233.1	5618.6	5892.6	6166.8
4089.9	32.5°	4186.9	4461.1	4735.3	5171.4	5607.5	5982.8	6358.3
4359.9	35°	4382.5	4572.8	4763.4	5217.6	5672.0	6131.4	6590.8
5154.3	37.5°	5050.8	5063.2	5075.5	5488.5	5901.5	6442.0	6982.5
6469.5	40°	6217.9	6001.1	5784.4	6091.5	6398.6	6986.4	7574.2
8241.9	42.5°	7784.3	7311.6	6838.8	7015.7	7192.6	7775.8	8359.0
10390.9	45°	9639.0	8881.5	8124.0	8202.2	8280.2	8804.3	9328.1
12774.9	47.5°	11674.1	10581.7	9489.0	9504.9	9520.7	10030.5	10540.1
15144.5	50°	13691.5	12283.3	10875.1	10872.4	10869.7	11499.1	12128.7
17435.4	52.5°	15637.7	13955.6	12273.5	12350.7	12427.8	13189.9	13952.2
19673.6	55°	17530.5	15658.5	13786.4	14086.9	14387.4	15140.5	15893.7
21842.0	57.5°	19414.5	17524.2	15633.9	16236.4	16839.1	17249.3	17659.4
24680.8	60°	22081.8	20292.9	18504.1	19252.5	20000.9	19363.7	18726.7
27247.5	62.5°	24774.8	23135.9	21497.2	21581.7	21666.0	19925.4	18184.8
27576.8	65°	25179.1	23096.4	21013.8	20690.7	20367.5	18733.8	17100.1
25805.0	67.5°	23397.0	21227.3	19057.4	18905.9	18754.4	17200.6	15646.8
23369.6	70°	21297.3	19357.0	17416.6	17348.7	17281.0	15590.8	13900.8
20384.7	72.5°	18832.7	17314.5	15796.4	15747.8	15699.0	13759.5	11820.2
17017.8	75°	15925.3	14744.2	13563.0	13382.8	13202.6	11195.3	9188.1
13398.8	77.5°	12624.0	11726.0	10828.1	10570.2	10312.3	8438.4	6564.7
9853.3	80°	9446.3	8768.5	8090.3	7769.8	7449.2	5873.0	4296.6
6472.7	82.5°	6302.9	5836.1	5369.4	5011.1	4653.1	3575.2	2497.6
3715.3	85°	3618.9	3235.5	2852.0	2547.4	2242.8	1670.9	1098.9
1456.3	87.5°	1448.1	1256.3	1064.5	894.6	724.7	532.4	340.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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