

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: P956791

Luminaire Tested: **GALN-SB9B-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956791
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-SB9B-830-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45921 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

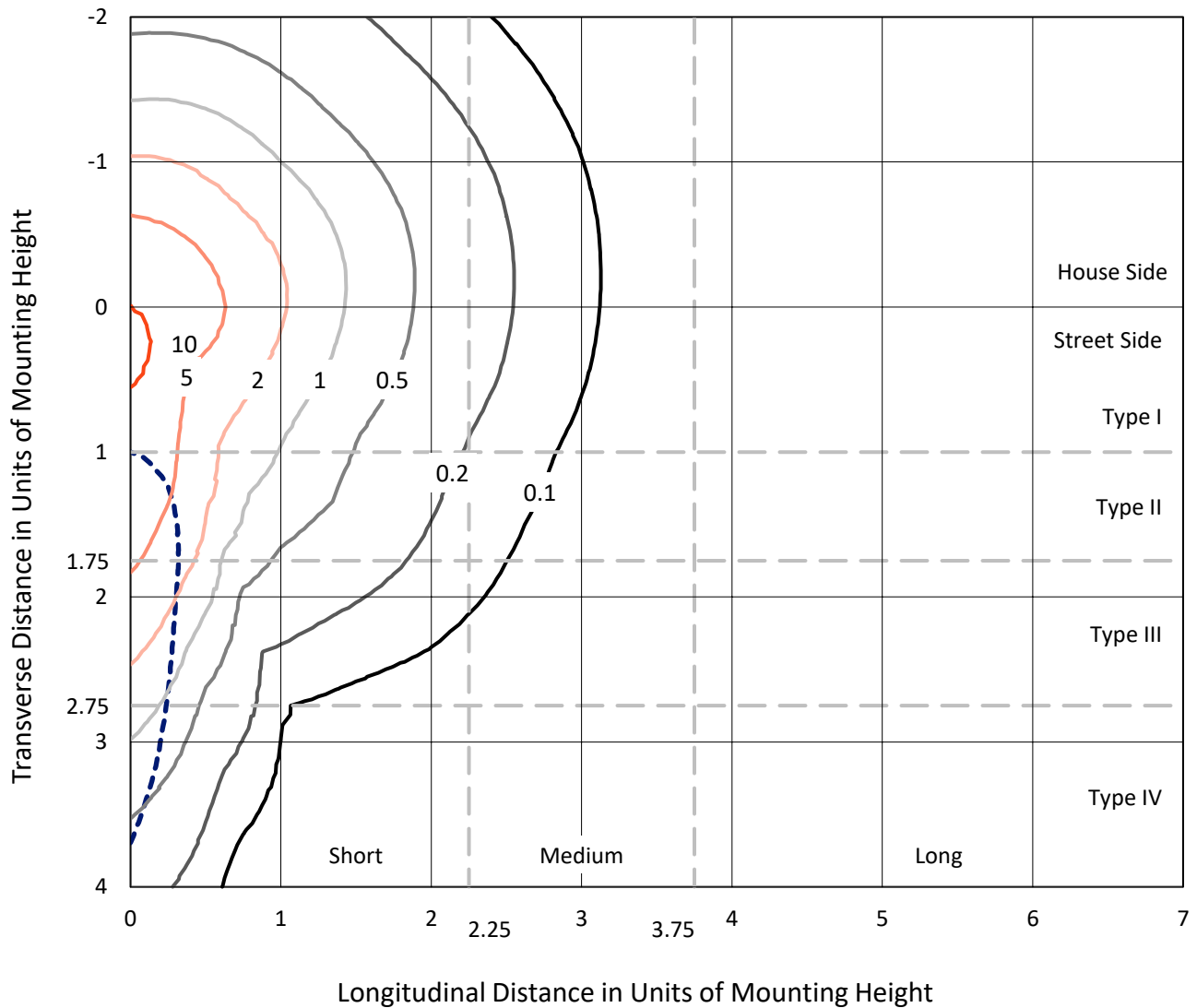
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

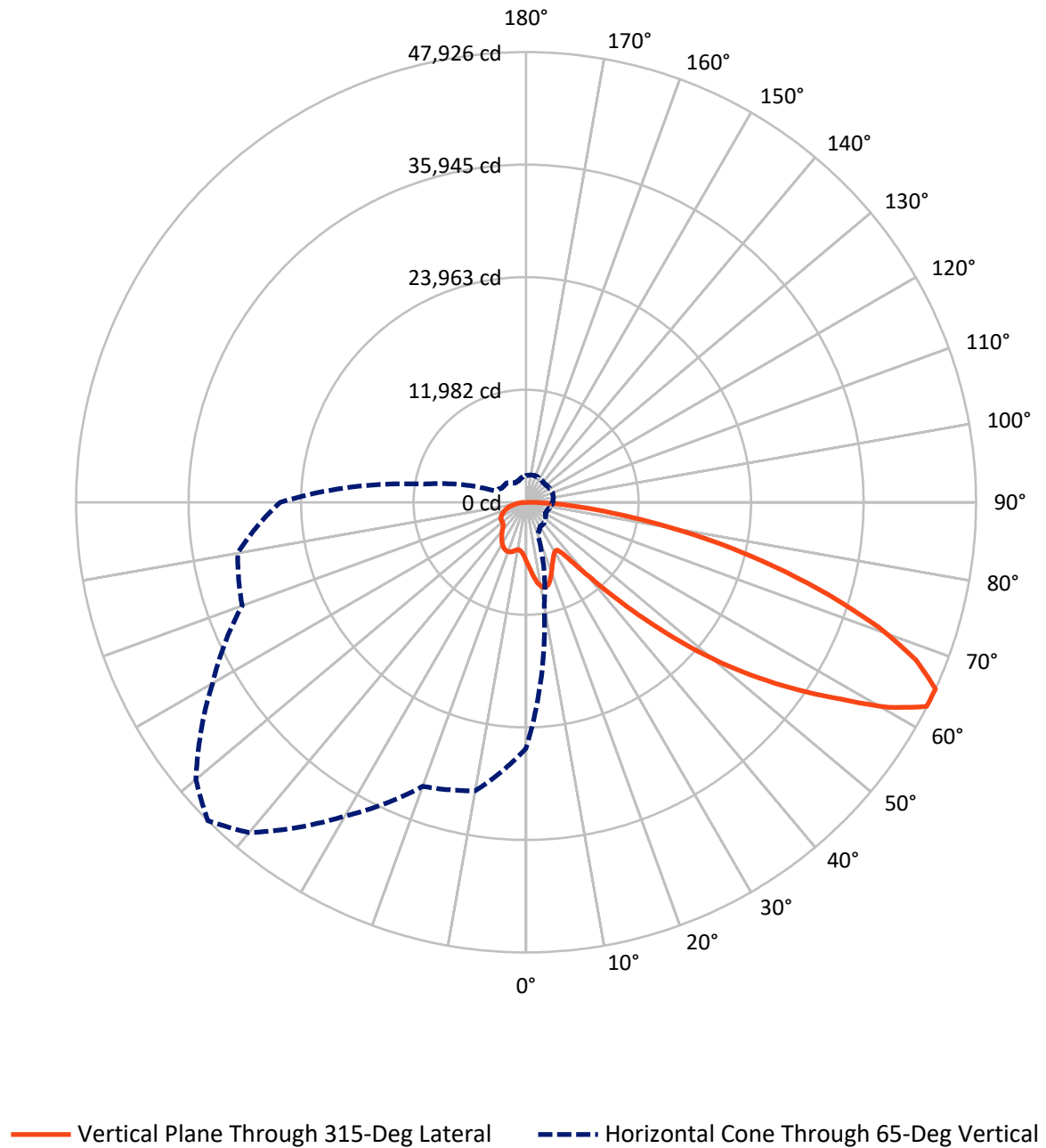
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	11670.8	0.0	11670.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	34250.2	0.0	34250.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	45921.0	0.0	45921.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.4	1.4
10°-20°	1966.4	4.3
20°-30°	3037.4	6.6
30°-40°	3849.1	8.4
40°-50°	5805.5	12.6
50°-60°	9379.6	20.4
60°-70°	11693.2	25.5
70°-80°	7667.8	16.7
80°-90°	1895.7	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°	45921.0	100.0
0°-180°	45921.0	100.0



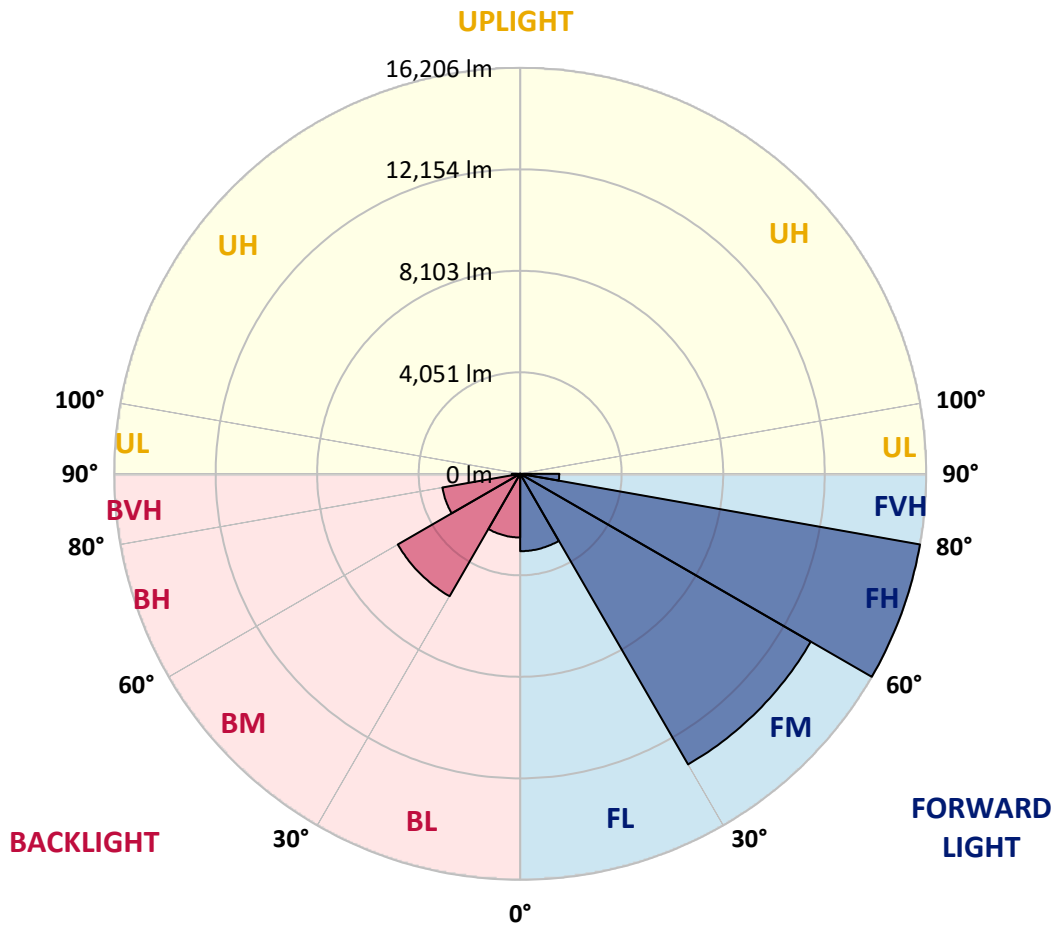
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.7	6.7			
FM (30°-60°)	13394.2	29.2			
FH (60°-80°)	16205.7	35.3			G5
FVH (80°-90°)	1561.6	3.4			G5
BL (0°-30°)	2541.5	5.5	B4/5000		
BM (30°-60°)	5640.0	12.3	B4/8500		
BH (60°-80°)	3155.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	334.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
2.5°	6790.7	6738.6	6686.5	6631.0	6575.7	6520.0	6464.3	6411.0	6357.7	6306.1
5°	7301.9	7186.8	7071.7	6956.9	6842.3	6726.7	6611.4	6503.5	6395.7	6293.9
7.5°	7815.6	7625.7	7435.9	7260.5	7085.1	6914.2	6743.4	6592.9	6442.5	6303.6
10°	8209.4	7969.3	7729.1	7497.2	7265.6	7058.2	6850.5	6672.7	6494.3	6323.0
12.5°	8450.5	8186.6	7923.0	7660.3	7397.6	7152.9	6908.2	6706.8	6505.5	6325.4
15°	8597.1	8322.1	8047.0	7762.1	7477.1	7195.3	6913.5	6680.4	6447.3	6247.9
17.5°	8679.5	8400.6	8121.7	7810.8	7499.9	7172.8	6845.7	6565.3	6285.0	6050.4
20°	8770.3	8480.5	8190.5	7848.8	7507.2	7110.8	6714.3	6366.9	6019.4	5746.3
22.5°	8875.7	8579.6	8283.3	7900.2	7516.9	7034.7	6552.5	6134.0	5715.5	5404.7
25°	9011.4	8721.1	8431.1	7993.2	7555.1	6959.6	6364.2	5874.0	5384.1	5065.4
27.5°	9195.6	8918.9	8641.9	8138.6	7635.1	6909.4	6183.7	5636.3	5088.9	4798.9
30°	9443.9	9176.4	8909.2	8326.9	7744.6	6885.9	6026.7	5437.6	4848.6	4605.1
32.5°	9737.1	9472.3	9207.7	8523.4	7839.1	6856.8	5874.0	5266.3	4658.4	4462.1
35°	10093.3	9839.9	9586.2	8747.3	7908.4	6802.1	5696.2	5097.9	4499.6	4336.1
37.5°	10693.0	10369.8	10046.6	8998.1	7949.6	6708.3	5466.9	4899.7	4332.5	4189.5
40°	11599.3	11128.2	10657.2	9316.5	7975.6	6579.1	5183.0	4663.2	4143.5	4013.8
42.5°	12801.1	12121.2	11441.3	9733.0	8024.7	6445.9	4867.5	4402.2	3937.0	3817.6
45°	14285.2	13368.1	12451.0	10281.1	8111.2	6322.0	4533.1	4125.0	3717.0	3595.8
47.5°	16141.3	14850.5	13559.5	10865.1	8170.6	6219.8	4269.0	3905.8	3542.5	3386.2
50°	18574.1	16628.1	14681.9	11406.9	8131.8	6108.3	4084.8	3760.1	3435.4	3230.0
52.5°	21366.7	18495.3	15624.0	11758.7	7893.2	5920.1	3947.2	3664.2	3381.4	3145.2
55°	24339.8	20150.8	15962.0	11681.2	7400.1	5608.0	3815.9	3594.6	3373.4	3153.6
57.5°	27043.9	21324.0	15604.1	11135.5	6667.1	5167.9	3668.5	3512.2	3356.0	3162.1
60°	28678.3	21617.2	14555.9	10120.0	5684.0	4596.6	3509.1	3386.2	3263.4	3135.5
62.5°	27848.4	20382.7	12916.9	8746.8	4576.7	3912.8	3248.9	3167.2	3085.8	3070.0
65°	26187.4	18635.9	11084.4	7345.8	3607.5	3297.6	2987.7	2949.1	2910.6	2912.5
67.5°	23961.8	16557.1	9152.4	5973.4	2794.3	2706.3	2618.1	2639.7	2661.0	2655.7
70°	21287.9	14288.9	7289.8	4703.2	2116.6	2141.8	2166.7	2266.5	2366.1	2366.1
72.5°	18101.6	11829.9	5558.5	3595.6	1632.7	1708.5	1784.6	1926.1	2067.4	2091.1
75°	14070.8	9011.2	3951.6	2609.7	1267.8	1336.6	1405.4	1563.9	1722.3	1831.8
77.5°	10053.3	6307.0	2560.7	1768.4	976.0	1022.8	1069.8	1223.7	1377.5	1558.0
80°	6579.9	4063.5	1547.1	1139.3	731.8	751.2	770.5	900.9	1031.0	1246.7
82.5°	3824.8	2351.8	879.1	700.8	522.9	526.3	530.2	626.1	722.1	906.2
85°	1682.8	1057.9	433.2	374.6	316.2	314.5	312.6	382.8	453.1	590.0
87.5°	521.0	346.5	172.0	155.3	138.6	136.9	135.2	163.8	192.6	249.6
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°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
6248.6	2.5°	6202.1	6155.8	6113.9	6072.2	6035.6	5999.0	5962.2	5925.6	5897.3	5868.7
6193.4	5°	6105.7	6017.7	5944.0	5870.6	5805.7	5740.7	5681.9	5622.7	5577.4	5531.9
6173.5	7.5°	6056.7	5940.2	5843.2	5746.3	5664.7	5582.8	5510.6	5438.6	5384.6	5330.8
6183.2	10°	6060.1	5937.0	5840.1	5743.2	5655.2	5567.0	5485.8	5404.7	5340.2	5275.5
6195.3	12.5°	6094.5	5994.2	5929.7	5865.8	5796.5	5727.7	5643.6	5559.7	5477.4	5395.0
6143.7	15°	6095.5	6047.5	6056.2	6065.0	6047.0	6029.1	5956.2	5883.2	5765.9	5648.7
5986.2	17.5°	6003.9	6021.3	6127.0	6232.6	6288.8	6344.8	6285.9	6227.3	6072.0	5916.7
5729.4	20°	5811.7	5894.1	6077.6	6261.2	6378.7	6496.3	6469.1	6441.7	6264.1	6086.8
5437.9	22.5°	5559.7	5681.6	5891.0	6100.8	6253.7	6406.6	6423.1	6439.3	6269.7	6100.1
5155.1	25°	5295.6	5436.2	5624.4	5813.0	5963.4	6113.9	6170.1	6226.1	6087.0	5948.2
4907.9	27.5°	5043.6	5179.3	5334.2	5488.7	5609.4	5730.1	5792.6	5855.4	5756.3	5657.4
4690.6	30°	4798.2	4906.2	5034.7	5163.1	5263.2	5363.5	5414.4	5465.2	5389.9	5314.3
4500.1	32.5°	4563.9	4627.6	4730.1	4832.8	4928.8	5025.0	5081.4	5138.1	5068.8	4999.3
4320.3	35°	4337.8	4355.5	4433.7	4511.8	4606.7	4702.0	4769.8	4837.7	4788.2	4739.0
4131.8	37.5°	4112.4	4093.1	4149.3	4205.2	4300.0	4395.0	4478.8	4562.6	4539.9	4517.1
3925.4	40°	3881.5	3837.7	3878.1	3918.6	4010.2	4101.8	4198.2	4294.9	4300.5	4305.8
3706.1	42.5°	3647.9	3589.8	3622.7	3655.9	3742.7	3829.7	3933.9	4038.1	4065.9	4093.8
3488.0	45°	3431.3	3374.9	3402.5	3430.6	3513.0	3595.4	3703.4	3811.5	3851.5	3891.5
3293.4	47.5°	3246.0	3198.5	3224.6	3250.6	3331.2	3411.7	3518.3	3624.9	3671.0	3717.0
3122.1	50°	3080.0	3038.1	3078.8	3119.7	3195.8	3271.6	3367.1	3462.6	3521.7	3580.8
2994.4	52.5°	2952.8	2911.3	2972.6	3033.7	3103.5	3173.0	3261.9	3351.1	3421.1	3491.2
2926.6	55°	2860.7	2795.0	2882.0	2968.8	3043.9	3119.0	3197.0	3274.8	3348.9	3423.3
2885.9	57.5°	2789.9	2694.0	2787.5	2881.0	2969.2	3057.4	3134.5	3211.8	3286.7	3361.3
2847.6	60°	2723.3	2598.7	2680.9	2762.8	2864.1	2965.4	3043.6	3122.1	3197.2	3272.4
2803.0	62.5°	2647.5	2492.1	2544.2	2596.3	2714.3	2832.6	2916.2	2999.8	3068.6	3137.4
2709.0	65°	2543.7	2378.2	2398.4	2418.2	2544.7	2671.4	2751.4	2831.4	2891.9	2952.5
2541.3	67.5°	2403.7	2266.1	2259.8	2253.5	2370.3	2487.3	2563.1	2638.7	2691.1	2743.4
2328.6	70°	2230.7	2132.8	2111.0	2089.2	2191.9	2294.7	2360.1	2425.5	2472.7	2520.0
2091.6	72.5°	2024.5	1957.4	1925.4	1893.6	1974.6	2055.3	2114.4	2173.5	2219.8	2266.1
1822.6	75°	1771.0	1719.2	1688.6	1657.9	1718.0	1778.1	1831.6	1885.2	1927.3	1969.5
1553.2	77.5°	1511.8	1470.3	1439.3	1408.3	1457.2	1505.9	1552.0	1598.0	1642.4	1686.5
1245.9	80°	1211.3	1176.4	1150.5	1124.3	1165.0	1205.5	1244.2	1283.0	1316.7	1350.1
916.4	82.5°	899.4	882.5	864.1	845.7	842.3	838.9	825.3	811.7	883.5	955.2
603.3	85°	585.2	567.0	546.4	525.8	508.4	490.7	453.1	415.6	482.7	550.0
266.5	87.5°	259.3	252.0	248.1	244.2	243.5	242.8	214.2	185.4	213.5	241.8
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
5845.7	2.5°	5822.6	5804.7	5786.8	5770.3	5753.6	5733.0	5753.6	5770.3	5786.8	5804.7
5500.1	5°	5468.4	5445.9	5423.3	5406.1	5388.9	5372.0	5388.9	5406.1	5423.3	5445.9
5293.0	7.5°	5255.2	5229.2	5203.6	5188.0	5172.8	5161.1	5172.8	5188.0	5203.6	5229.2
5233.4	10°	5190.7	5166.2	5141.8	5128.7	5115.6	5110.3	5115.6	5128.7	5141.8	5166.2
5340.5	12.5°	5285.9	5258.6	5231.4	5220.3	5209.1	5207.2	5209.1	5220.3	5231.4	5258.6
5565.8	15°	5482.9	5444.9	5407.1	5392.6	5378.0	5376.8	5378.0	5392.6	5407.1	5444.9
5794.5	17.5°	5672.4	5616.2	5559.7	5541.3	5522.7	5519.8	5522.7	5541.3	5559.7	5616.2
5937.0	20°	5787.5	5715.5	5643.3	5620.3	5597.3	5590.0	5597.3	5620.3	5643.3	5715.5
5946.0	22.5°	5791.6	5715.8	5639.7	5614.3	5588.8	5577.9	5588.8	5614.3	5639.7	5715.8
5811.0	25°	5674.4	5608.4	5542.8	5518.8	5495.0	5481.0	5495.0	5518.8	5542.8	5608.4
5551.0	27.5°	5444.6	5400.5	5356.2	5345.3	5334.4	5330.8	5334.4	5345.3	5356.2	5400.5
5238.2	30°	5161.6	5139.1	5116.3	5116.3	5116.3	5120.0	5116.3	5116.3	5116.3	5139.1
4938.5	32.5°	4877.6	4862.9	4848.1	4850.0	4852.2	4855.8	4852.2	4850.0	4848.1	4862.9
4682.8	35°	4626.9	4604.3	4582.0	4577.2	4572.3	4569.9	4572.3	4577.2	4582.0	4604.3
4465.5	37.5°	4413.6	4372.7	4332.0	4310.4	4288.8	4276.7	4288.8	4310.4	4332.0	4372.7
4261.9	40°	4218.1	4158.5	4099.4	4059.1	4019.4	3995.7	4019.4	4059.1	4099.4	4158.5
4056.7	42.5°	4019.9	3946.0	3872.1	3813.7	3755.3	3717.0	3755.3	3813.7	3872.1	3946.0
3858.0	45°	3824.8	3740.3	3655.9	3587.4	3518.8	3474.7	3518.8	3587.4	3655.9	3740.3
3693.7	47.5°	3670.5	3595.4	3520.2	3456.8	3393.5	3351.1	3393.5	3456.8	3520.2	3595.4
3579.4	50°	3578.4	3518.3	3458.2	3399.6	3340.9	3300.2	3340.9	3399.6	3458.2	3518.3
3503.8	52.5°	3516.4	3467.4	3418.5	3365.9	3313.6	3276.0	3313.6	3365.9	3418.5	3467.4
3440.8	55°	3458.2	3415.6	3372.9	3326.9	3280.8	3246.9	3280.8	3326.9	3372.9	3415.6
3379.0	57.5°	3396.7	3353.5	3310.4	3264.9	3219.1	3183.9	3219.1	3264.9	3310.4	3353.5
3291.7	60°	3311.1	3269.0	3227.1	3180.0	3133.0	3096.7	3133.0	3180.0	3227.1	3269.0
3156.1	62.5°	3174.7	3136.7	3098.6	3049.2	2999.8	2956.2	2999.8	3049.2	3098.6	3136.7
2971.7	65°	2990.6	2954.0	2917.4	2869.4	2821.7	2784.1	2821.7	2869.4	2917.4	2954.0
2762.1	67.5°	2780.5	2746.8	2713.4	2668.8	2624.2	2590.3	2624.2	2668.8	2713.4	2746.8
2537.9	70°	2555.9	2528.5	2501.1	2458.5	2415.8	2377.0	2415.8	2458.5	2501.1	2528.5
2287.4	72.5°	2308.7	2285.9	2263.2	2222.4	2182.0	2144.4	2182.0	2222.4	2263.2	2285.9
1991.8	75°	2014.1	2002.9	1991.8	1957.6	1923.4	1887.6	1923.4	1957.6	1991.8	2002.9
1707.3	77.5°	1728.1	1712.6	1696.6	1662.2	1627.8	1599.2	1627.8	1662.2	1696.6	1712.6
1377.8	80°	1405.4	1398.6	1392.1	1345.8	1299.3	1245.5	1299.3	1345.8	1392.1	1398.6
1002.2	82.5°	1049.2	1046.3	1043.1	1004.1	964.9	930.5	964.9	1004.1	1043.1	1046.3
608.2	85°	666.3	661.5	656.7	626.1	595.6	564.6	595.6	626.1	656.7	661.5
265.3	87.5°	288.8	283.0	276.7	261.2	245.2	230.2	245.2	261.2	276.7	283.0
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°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
5822.6	2.5°	5845.7	5868.7	5897.3	5925.6	5962.2	5999.0	6035.6	6072.2	6113.9	6155.8
5468.4	5°	5500.1	5531.9	5577.4	5622.7	5681.9	5740.7	5805.7	5870.6	5944.0	6017.7
5255.2	7.5°	5293.0	5330.8	5384.6	5438.6	5510.6	5582.8	5664.7	5746.3	5843.2	5940.2
5190.7	10°	5233.4	5275.5	5340.2	5404.7	5485.8	5567.0	5655.2	5743.2	5840.1	5937.0
5285.9	12.5°	5340.5	5395.0	5477.4	5559.7	5643.6	5727.7	5796.5	5865.8	5929.7	5994.2
5482.9	15°	5565.8	5648.7	5765.9	5883.2	5956.2	6029.1	6047.0	6065.0	6056.2	6047.5
5672.4	17.5°	5794.5	5916.7	6072.0	6227.3	6285.9	6344.8	6288.8	6232.6	6127.0	6021.3
5787.5	20°	5937.0	6086.8	6264.1	6441.7	6469.1	6496.3	6378.7	6261.2	6077.6	5894.1
5791.6	22.5°	5946.0	6100.1	6269.7	6439.3	6423.1	6406.6	6253.7	6100.8	5891.0	5681.6
5674.4	25°	5811.0	5948.2	6087.0	6226.1	6170.1	6113.9	5963.4	5813.0	5624.4	5436.2
5444.6	27.5°	5551.0	5657.4	5756.3	5855.4	5792.6	5730.1	5609.4	5488.7	5334.2	5179.3
5161.6	30°	5238.2	5314.3	5389.9	5465.2	5414.4	5363.5	5263.2	5163.1	5034.7	4906.2
4877.6	32.5°	4938.5	4999.3	5068.8	5138.1	5081.4	5025.0	4928.8	4832.8	4730.1	4627.6
4626.9	35°	4682.8	4739.0	4788.2	4837.7	4769.8	4702.0	4606.7	4511.8	4433.7	4355.5
4413.6	37.5°	4465.5	4517.1	4539.9	4562.6	4478.8	4395.0	4300.0	4205.2	4149.3	4093.1
4218.1	40°	4261.9	4305.8	4300.5	4294.9	4198.2	4101.8	4010.2	3918.6	3878.1	3837.7
4019.9	42.5°	4056.7	4093.8	4065.9	4038.1	3933.9	3829.7	3742.7	3655.9	3622.7	3589.8
3824.8	45°	3858.0	3891.5	3851.5	3811.5	3703.4	3595.4	3513.0	3430.6	3402.5	3374.9
3670.5	47.5°	3693.7	3717.0	3671.0	3624.9	3518.3	3411.7	3331.2	3250.6	3224.6	3198.5
3578.4	50°	3579.4	3580.8	3521.7	3462.6	3367.1	3271.6	3195.8	3119.7	3078.8	3038.1
3516.4	52.5°	3503.8	3491.2	3421.1	3351.1	3261.9	3173.0	3103.5	3033.7	2972.6	2911.3
3458.2	55°	3440.8	3423.3	3348.9	3274.8	3197.0	3119.0	3043.9	2968.8	2882.0	2795.0
3396.7	57.5°	3379.0	3361.3	3286.7	3211.8	3134.5	3057.4	2969.2	2881.0	2787.5	2694.0
3311.1	60°	3291.7	3272.4	3197.2	3122.1	3043.6	2965.4	2864.1	2762.8	2680.9	2598.7
3174.7	62.5°	3156.1	3137.4	3068.6	2999.8	2916.2	2832.6	2714.3	2596.3	2544.2	2492.1
2990.6	65°	2971.7	2952.5	2891.9	2831.4	2751.4	2671.4	2544.7	2418.2	2398.4	2378.2
2780.5	67.5°	2762.1	2743.4	2691.1	2638.7	2563.1	2487.3	2370.3	2253.5	2259.8	2266.1
2555.9	70°	2537.9	2520.0	2472.7	2425.5	2360.1	2294.7	2191.9	2089.2	2111.0	2132.8
2308.7	72.5°	2287.4	2266.1	2219.8	2173.5	2114.4	2055.3	1974.6	1893.6	1925.4	1957.4
2014.1	75°	1991.8	1969.5	1927.3	1885.2	1831.6	1778.1	1718.0	1657.9	1688.6	1719.2
1728.1	77.5°	1707.3	1686.5	1642.4	1598.0	1552.0	1505.9	1457.2	1408.3	1439.3	1470.3
1405.4	80°	1377.8	1350.1	1316.7	1283.0	1244.2	1205.5	1165.0	1124.3	1150.5	1176.4
1049.2	82.5°	1002.2	955.2	883.5	811.7	825.3	838.9	842.3	845.7	864.1	882.5
666.3	85°	608.2	550.0	482.7	415.6	453.1	490.7	508.4	525.8	546.4	567.0
288.8	87.5°	265.3	241.8	213.5	185.4	214.2	242.8	243.5	244.2	248.1	252.0
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
6202.1	2.5°	6248.6	6306.1	6357.7	6411.0	6464.3	6520.0	6575.7	6631.0	6686.5	6738.6
6105.7	5°	6193.4	6293.9	6395.7	6503.5	6611.4	6726.7	6842.3	6956.9	7071.7	7186.8
6056.7	7.5°	6173.5	6303.6	6442.5	6592.9	6743.4	6914.2	7085.1	7260.5	7435.9	7625.7
6060.1	10°	6183.2	6323.0	6494.3	6672.7	6850.5	7058.2	7265.6	7497.2	7729.1	7969.3
6094.5	12.5°	6195.3	6325.4	6505.5	6706.8	6908.2	7152.9	7397.6	7660.3	7923.0	8186.6
6095.5	15°	6143.7	6247.9	6447.3	6680.4	6913.5	7195.3	7477.1	7762.1	8047.0	8322.1
6003.9	17.5°	5986.2	6050.4	6285.0	6565.3	6845.7	7172.8	7499.9	7810.8	8121.7	8400.6
5811.7	20°	5729.4	5746.3	6019.4	6366.9	6714.3	7110.8	7507.2	7848.8	8190.5	8480.5
5559.7	22.5°	5437.9	5404.7	5715.5	6134.0	6552.5	7034.7	7516.9	7900.2	8283.3	8579.6
5295.6	25°	5155.1	5065.4	5384.1	5874.0	6364.2	6959.6	7555.1	7993.2	8431.1	8721.1
5043.6	27.5°	4907.9	4798.9	5088.9	5636.3	6183.7	6909.4	7635.1	8138.6	8641.9	8918.9
4798.2	30°	4690.6	4605.1	4848.6	5437.6	6026.7	6885.9	7744.6	8326.9	8909.2	9176.4
4563.9	32.5°	4500.1	4462.1	4658.4	5266.3	5874.0	6856.8	7839.1	8523.4	9207.7	9472.3
4337.8	35°	4320.3	4336.1	4499.6	5097.9	5696.2	6802.1	7908.4	8747.3	9586.2	9839.9
4112.4	37.5°	4131.8	4189.5	4332.5	4899.7	5466.9	6708.3	7949.6	8998.1	10046.6	10369.8
3881.5	40°	3925.4	4013.8	4143.5	4663.2	5183.0	6579.1	7975.6	9316.5	10657.2	11128.2
3647.9	42.5°	3706.1	3817.6	3937.0	4402.2	4867.5	6445.9	8024.7	9733.0	11441.3	12121.2
3431.3	45°	3488.0	3595.8	3717.0	4125.0	4533.1	6322.0	8111.2	10281.1	12451.0	13368.1
3246.0	47.5°	3293.4	3386.2	3542.5	3905.8	4269.0	6219.8	8170.6	10865.1	13559.5	14850.5
3080.0	50°	3122.1	3230.0	3435.4	3760.1	4084.8	6108.3	8131.8	11406.9	14681.9	16628.1
2952.8	52.5°	2994.4	3145.2	3381.4	3664.2	3947.2	5920.1	7893.2	11758.7	15624.0	18495.3
2860.7	55°	2926.6	3153.6	3373.4	3594.6	3815.9	5608.0	7400.1	11681.2	15962.0	20150.8
2789.9	57.5°	2885.9	3162.1	3356.0	3512.2	3668.5	5167.9	6667.1	11135.5	15604.1	21324.0
2723.3	60°	2847.6	3135.5	3263.4	3386.2	3509.1	4596.6	5684.0	10120.0	14555.9	21617.2
2647.5	62.5°	2803.0	3070.0	3085.8	3167.2	3248.9	3912.8	4576.7	8746.8	12916.9	20382.7
2543.7	65°	2709.0	2912.5	2910.6	2949.1	2987.7	3297.6	3607.5	7345.8	11084.4	18635.9
2403.7	67.5°	2541.3	2655.7	2661.0	2639.7	2618.1	2706.3	2794.3	5973.4	9152.4	16557.1
2230.7	70°	2328.6	2366.1	2366.1	2266.5	2166.7	2141.8	2116.6	4703.2	7289.8	14288.9
2024.5	72.5°	2091.6	2091.1	2067.4	1926.1	1784.6	1708.5	1632.7	3595.6	5558.5	11829.9
1771.0	75°	1822.6	1831.8	1722.3	1563.9	1405.4	1336.6	1267.8	2609.7	3951.6	9011.2
1511.8	77.5°	1553.2	1558.0	1377.5	1223.7	1069.8	1022.8	976.0	1768.4	2560.7	6307.0
1211.3	80°	1245.9	1246.7	1031.0	900.9	770.5	751.2	731.8	1139.3	1547.1	4063.5
899.4	82.5°	916.4	906.2	722.1	626.1	530.2	526.3	522.9	700.8	879.1	2351.8
585.2	85°	603.3	590.0	453.1	382.8	312.6	314.5	316.2	374.6	433.2	1057.9
259.3	87.5°	266.5	249.6	192.6	163.8	135.2	136.9	138.6	155.3	172.0	346.5
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°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
6790.7	2.5°	6816.4	6842.3	6878.9	6915.5	6937.3	6959.1	6970.0	6980.9	6976.0	6980.9
7301.9	5°	7391.8	7482.0	7571.1	7660.6	7709.0	7757.5	7786.8	7816.4	7838.6	7816.4
7815.6	7.5°	7962.0	8108.1	8239.7	8371.2	8450.5	8529.7	8572.6	8615.2	8635.8	8615.2
8209.4	10°	8382.4	8555.4	8709.7	8864.1	8957.6	9050.7	9092.3	9133.8	9149.5	9133.8
8450.5	12.5°	8638.0	8825.3	8964.9	9104.0	9171.8	9239.7	9262.4	9285.2	9287.6	9285.2
8597.1	15°	8758.9	8920.5	9008.0	9095.7	9098.2	9100.6	9076.4	9052.1	9023.5	9052.1
8679.5	17.5°	8788.7	8898.0	8899.7	8901.2	8803.0	8704.9	8615.0	8524.9	8461.4	8524.9
8770.3	20°	8808.4	8846.6	8731.6	8616.5	8399.8	8183.2	8025.5	7867.7	7770.8	7867.7
8875.7	22.5°	8825.8	8775.9	8537.5	8299.0	7980.4	7661.8	7464.5	7267.3	7160.2	7267.3
9011.4	25°	8853.9	8696.4	8334.4	7972.4	7585.4	7198.5	6991.1	6784.1	6682.8	6784.1
9195.6	27.5°	8914.0	8632.2	8152.7	7673.4	7244.5	6815.6	6611.6	6407.8	6312.1	6407.8
9443.9	30°	9024.0	8604.3	8014.1	7423.8	6977.0	6530.2	6340.9	6151.7	6062.5	6151.7
9737.1	32.5°	9162.1	8587.4	7919.6	7251.8	6831.9	6411.9	6263.4	6114.6	6050.4	6114.6
10093.3	35°	9389.7	8686.2	7990.3	7294.7	7002.9	6711.4	6676.8	6642.1	6636.8	6642.1
10693.0	37.5°	9865.3	9037.6	8405.2	7772.7	7753.8	7734.9	7893.4	8051.9	8134.3	8051.9
11599.3	40°	10699.1	9798.9	9328.6	8858.3	9190.2	9522.2	9907.5	10292.7	10484.6	10292.7
12801.1	42.5°	11908.0	11014.8	10743.9	10473.0	11197.0	11921.0	12621.8	13322.5	13734.0	13322.5
14285.2	45°	13483.0	12680.4	12561.0	12441.3	13601.2	14761.4	15912.8	17064.5	17763.6	17064.5
16141.3	47.5°	15360.8	14580.1	14555.9	14531.7	16205.0	17877.9	19563.7	21249.2	22239.0	21249.2
18574.1	50°	17609.9	16646.0	16650.2	16654.3	18810.8	20967.4	23192.5	25417.6	26762.9	25417.6
21366.7	52.5°	20199.2	19032.0	18914.0	18795.8	21371.8	23947.7	26700.8	29453.7	31066.2	29453.7
24339.8	55°	23186.4	22033.0	21572.9	21112.7	23979.7	26846.5	30128.5	33410.6	35328.4	33410.6
27043.9	57.5°	26415.9	25787.6	24864.6	23941.9	26836.8	29731.6	33449.1	37166.3	39544.6	37166.3
28678.3	60°	29653.8	30629.6	29483.5	28337.4	31076.9	33816.4	37796.6	41776.7	44347.1	41776.7
27848.4	62.5°	30514.0	33179.6	33050.5	32921.1	35430.7	37940.5	41727.3	45513.8	47889.7	45513.8
26187.4	65°	28689.2	31191.0	31686.1	32180.9	35370.1	38559.6	42231.5	45903.2	47926.0	45903.2
23961.8	67.5°	26341.2	28720.7	28952.8	29184.7	32507.7	35830.5	39518.2	43205.8	44790.5	43205.8
21287.9	70°	23876.0	26464.3	26568.0	26672.0	29643.7	32615.1	35788.6	38961.8	39842.6	38961.8
18101.6	72.5°	21071.5	24041.7	24116.4	24190.8	26515.7	28840.6	31217.4	33594.0	33683.2	33594.0
14070.8	75°	17144.7	20218.6	20494.6	20770.6	22579.4	24388.2	26061.4	27734.5	27286.2	27734.5
10053.3	77.5°	12922.7	15792.4	16187.4	16582.3	17957.4	19332.5	20519.1	21705.9	20935.4	21705.9
6579.9	80°	8994.0	11407.8	11898.8	12389.7	13428.2	14466.2	15089.5	15712.4	14473.0	15712.4
3824.8	82.5°	5475.2	7125.8	7674.1	8222.7	8937.5	9652.3	9912.3	10172.1	9198.0	10172.1
1682.8	85°	2558.8	3434.7	3901.2	4367.6	4954.9	5542.1	5689.6	5837.2	5057.0	5837.2
521.0	87.5°	815.4	1109.8	1370.0	1630.2	1923.9	2217.6	2230.2	2242.6	1882.7	2242.6
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):

325°		330°	335°	340°	345°	350°	355°	360°
6314.5	0°	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5	6314.5
6970.0	2.5°	6959.1	6937.3	6915.5	6878.9	6842.3	6816.4	6790.7
7786.8	5°	7757.5	7709.0	7660.6	7571.1	7482.0	7391.8	7301.9
8572.6	7.5°	8529.7	8450.5	8371.2	8239.7	8108.1	7962.0	7815.6
9092.3	10°	9050.7	8957.6	8864.1	8709.7	8555.4	8382.4	8209.4
9262.4	12.5°	9239.7	9171.8	9104.0	8964.9	8825.3	8638.0	8450.5
9076.4	15°	9100.6	9098.2	9095.7	9008.0	8920.5	8758.9	8597.1
8615.0	17.5°	8704.9	8803.0	8901.2	8899.7	8898.0	8788.7	8679.5
8025.5	20°	8183.2	8399.8	8616.5	8731.6	8846.6	8808.4	8770.3
7464.5	22.5°	7661.8	7980.4	8299.0	8537.5	8775.9	8825.8	8875.7
6991.1	25°	7198.5	7585.4	7972.4	8334.4	8696.4	8853.9	9011.4
6611.6	27.5°	6815.6	7244.5	7673.4	8152.7	8632.2	8914.0	9195.6
6340.9	30°	6530.2	6977.0	7423.8	8014.1	8604.3	9024.0	9443.9
6263.4	32.5°	6411.9	6831.9	7251.8	7919.6	8587.4	9162.1	9737.1
6676.8	35°	6711.4	7002.9	7294.7	7990.3	8686.2	9389.7	10093.3
7893.4	37.5°	7734.9	7753.8	7772.7	8405.2	9037.6	9865.3	10693.0
9907.5	40°	9522.2	9190.2	8858.3	9328.6	9798.9	10699.1	11599.3
12621.8	42.5°	11921.0	11197.0	10473.0	10743.9	11014.8	11908.0	12801.1
15912.8	45°	14761.4	13601.2	12441.3	12561.0	12680.4	13483.0	14285.2
19563.7	47.5°	17877.9	16205.0	14531.7	14555.9	14580.1	15360.8	16141.3
23192.5	50°	20967.4	18810.8	16654.3	16650.2	16646.0	17609.9	18574.1
26700.8	52.5°	23947.7	21371.8	18795.8	18914.0	19032.0	20199.2	21366.7
30128.5	55°	26846.5	23979.7	21112.7	21572.9	22033.0	23186.4	24339.8
33449.1	57.5°	29731.6	26836.8	23941.9	24864.6	25787.6	26415.9	27043.9
37796.6	60°	33816.4	31076.9	28337.4	29483.5	30629.6	29653.8	28678.3
41727.3	62.5°	37940.5	35430.7	32921.1	33050.5	33179.6	30514.0	27848.4
42231.5	65°	38559.6	35370.1	32180.9	31686.1	31191.0	28689.2	26187.4
39518.2	67.5°	35830.5	32507.7	29184.7	28952.8	28720.7	26341.2	23961.8
35788.6	70°	32615.1	29643.7	26672.0	26568.0	26464.3	23876.0	21287.9
31217.4	72.5°	28840.6	26515.7	24190.8	24116.4	24041.7	21071.5	18101.6
26061.4	75°	24388.2	22579.4	20770.6	20494.6	20218.6	17144.7	14070.8
20519.1	77.5°	19332.5	17957.4	16582.3	16187.4	15792.4	12922.7	10053.3
15089.5	80°	14466.2	13428.2	12389.7	11898.8	11407.8	8994.0	6579.9
9912.3	82.5°	9652.3	8937.5	8222.7	7674.1	7125.8	5475.2	3824.8
5689.6	85°	5542.1	4954.9	4367.6	3901.2	3434.7	2558.8	1682.8
2230.2	87.5°	2217.6	1923.9	1630.2	1370.0	1109.8	815.4	521.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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