

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: P950428

Luminaire Tested: **GALN-SB4D-850-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950428
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-SB4D-850-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38870 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

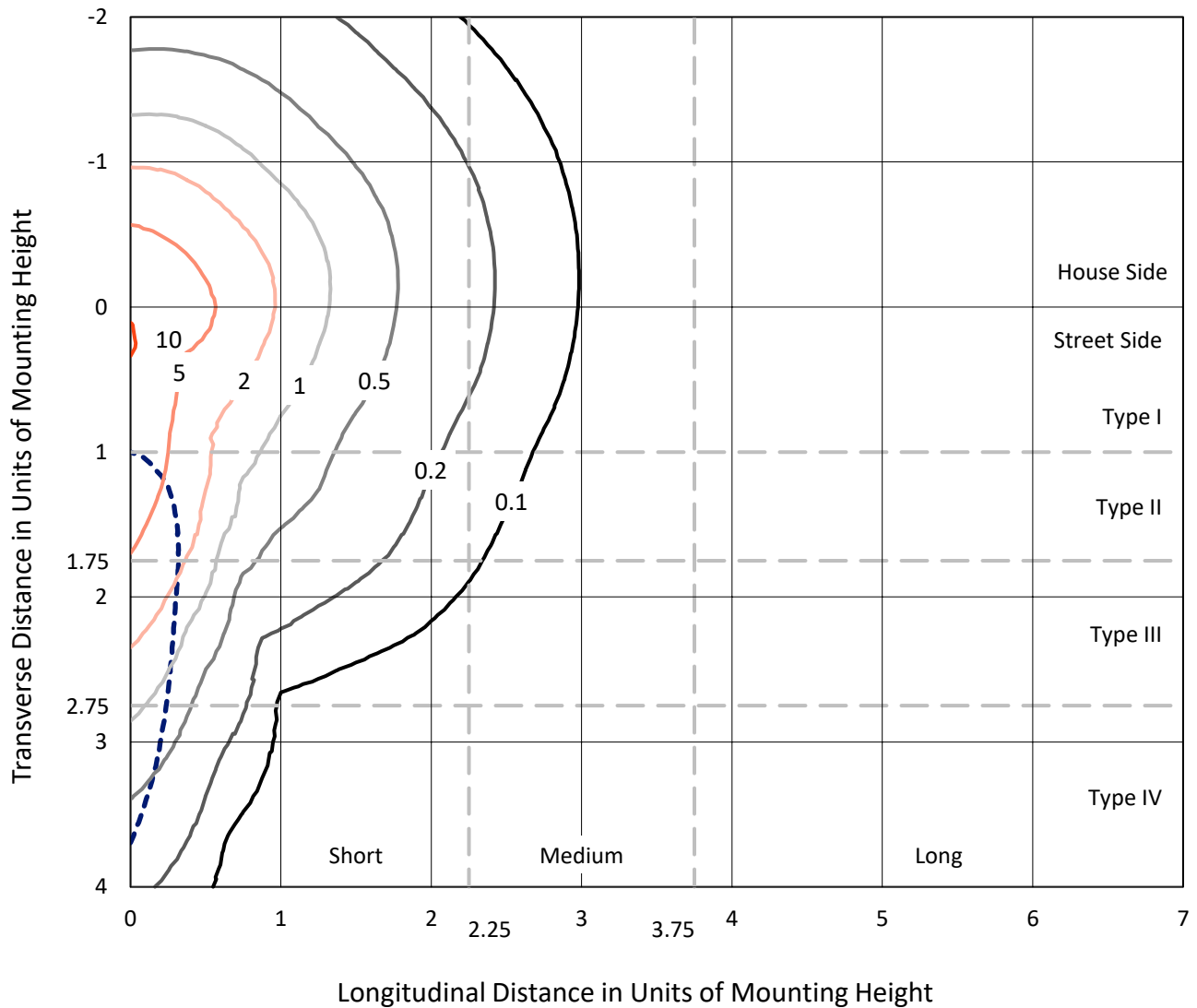
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

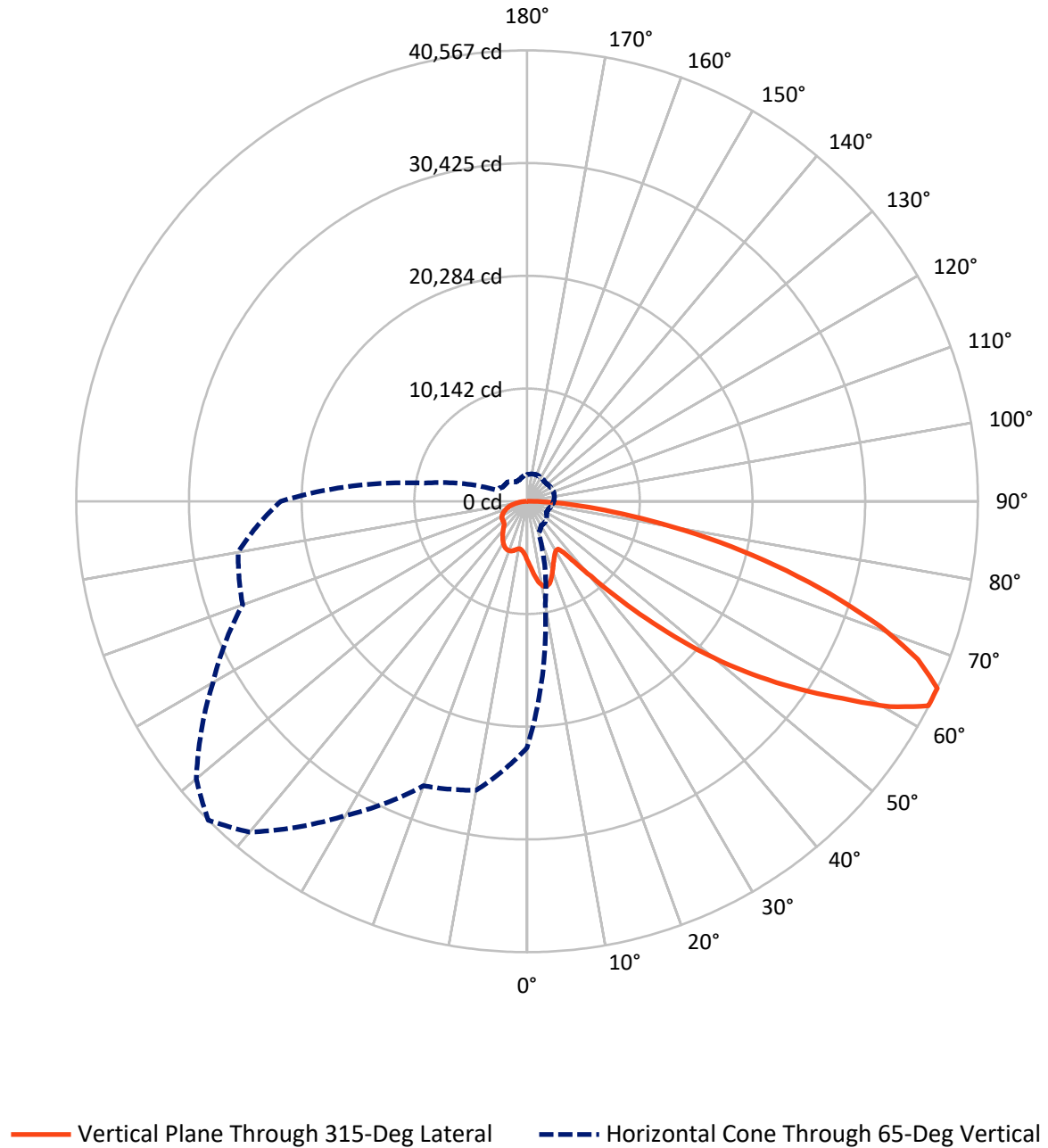
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	9878.8	0.0	9878.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	28991.2	0.0	28991.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	38870.0	0.0	38870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.2	1.4
10°-20°	1664.5	4.3
20°-30°	2571.0	6.6
30°-40°	3258.1	8.4
40°-50°	4914.1	12.6
50°-60°	7939.4	20.4
60°-70°	9897.7	25.5
70°-80°	6490.4	16.7
80°-90°	1604.6	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38870.0	100.0
0°-180°	38870.0	100.0



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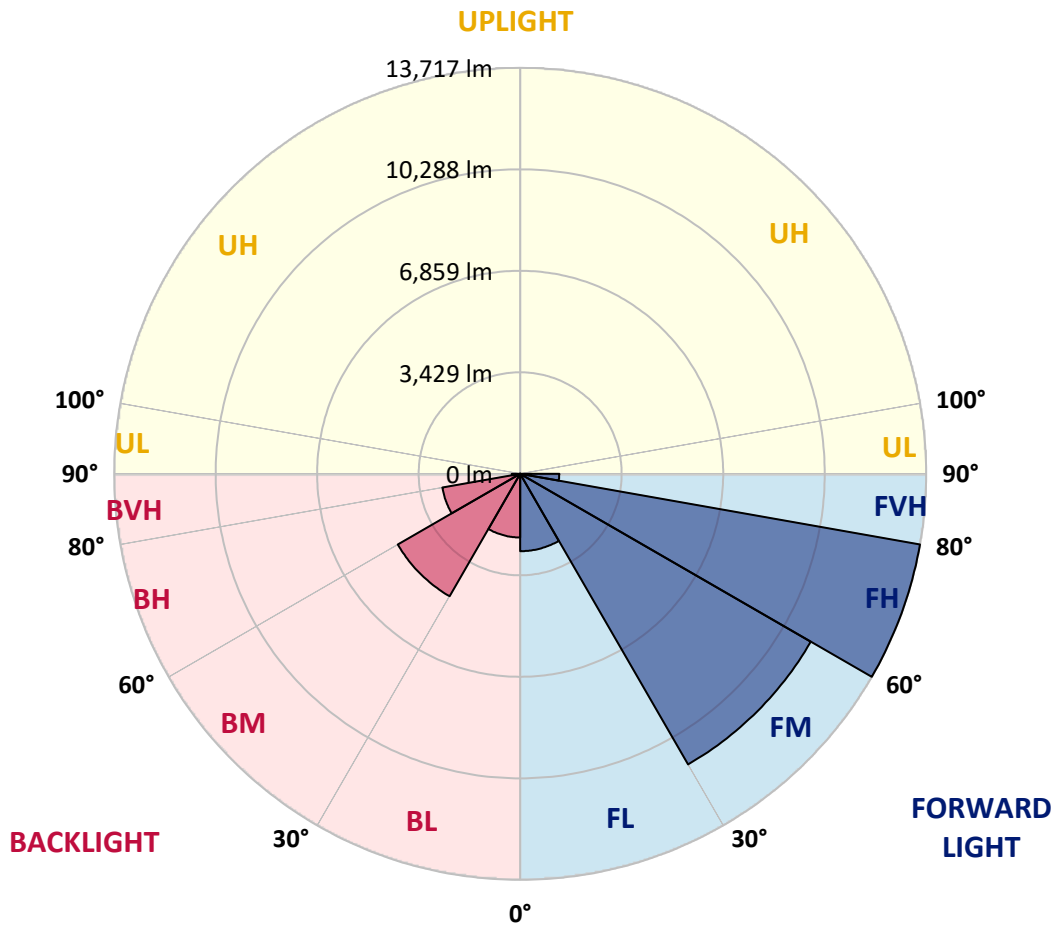
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.5	6.7			
FM (30°-60°)	11337.5	29.2			
FH (60°-80°)	13717.4	35.3			G5
FVH (80°-90°)	1321.8	3.4			G5
BL (0°-30°)	2151.2	5.5	B3/2500		
BM (30°-60°)	4774.0	12.3	B3/5000		
BH (60°-80°)	2670.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	282.8	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°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
2.5°	5748.0	5703.9	5659.8	5612.8	5566.1	5518.9	5471.7	5426.6	5381.5	5337.8
5°	6180.8	6083.3	5985.9	5888.7	5791.7	5693.8	5596.2	5504.9	5413.7	5327.5
7.5°	6615.6	6454.8	6294.2	6145.7	5997.2	5852.6	5708.0	5580.6	5453.3	5335.7
10°	6948.9	6745.6	6542.3	6346.1	6150.0	5974.4	5798.6	5648.1	5497.1	5352.1
12.5°	7152.9	6929.6	6706.4	6484.1	6261.8	6054.6	5847.5	5677.0	5506.6	5354.2
15°	7277.0	7044.2	6811.4	6570.2	6329.0	6090.5	5852.0	5654.7	5457.4	5288.6
17.5°	7346.8	7110.7	6874.6	6611.5	6348.3	6071.4	5794.5	5557.2	5319.9	5121.4
20°	7423.7	7178.4	6932.9	6643.7	6354.5	6018.9	5683.4	5389.3	5095.1	4864.0
22.5°	7512.9	7262.3	7011.4	6687.1	6362.7	5954.5	5546.4	5192.2	4837.9	4574.8
25°	7627.7	7382.0	7136.5	6765.9	6395.1	5890.9	5387.0	4972.1	4557.4	4287.7
27.5°	7783.6	7549.4	7315.0	6889.0	6462.8	5848.5	5234.2	4770.9	4307.6	4062.0
30°	7993.9	7767.4	7541.2	7048.3	6555.5	5828.6	5101.3	4602.7	4104.1	3898.0
32.5°	8242.0	8017.8	7793.9	7214.7	6635.5	5804.0	4972.1	4457.7	3943.1	3777.0
35°	8543.5	8329.0	8114.2	7404.2	6694.1	5757.6	4821.5	4315.1	3808.7	3670.3
37.5°	9051.2	8777.5	8503.9	7616.5	6729.0	5678.3	4627.5	4147.4	3667.2	3546.2
40°	9818.2	9419.5	9020.8	7886.0	6750.9	5568.9	4387.1	3947.2	3507.2	3397.5
42.5°	10835.5	10260.0	9684.5	8238.5	6792.6	5456.1	4120.1	3726.3	3332.5	3231.4
45°	12091.8	11315.5	10539.2	8702.5	6865.8	5351.3	3837.0	3491.7	3146.3	3043.7
47.5°	13662.9	12570.3	11477.5	9196.8	6916.0	5264.8	3613.5	3306.0	2998.6	2866.3
50°	15722.1	14074.9	12427.5	9655.4	6883.2	5170.4	3457.6	3182.8	2907.9	2734.0
52.5°	18085.9	15655.4	13225.0	9953.2	6681.2	5011.1	3341.1	3101.6	2862.2	2662.2
55°	20602.5	17056.7	13511.1	9887.6	6263.8	4746.9	3229.9	3042.7	2855.4	2669.4
57.5°	22891.4	18049.8	13208.2	9425.7	5643.4	4374.4	3105.2	2973.0	2840.7	2676.6
60°	24274.9	18298.0	12320.9	8566.1	4811.3	3890.8	2970.3	2866.3	2762.3	2654.0
62.5°	23572.4	17253.0	10933.6	7403.8	3874.0	3312.0	2750.0	2680.9	2612.0	2598.6
65°	22166.4	15774.4	9382.4	6217.9	3053.6	2791.2	2528.9	2496.3	2463.7	2465.3
67.5°	20282.5	14014.8	7747.1	5056.2	2365.2	2290.8	2216.1	2234.4	2252.4	2247.9
70°	18019.2	12094.9	6170.5	3981.0	1791.6	1812.9	1834.0	1918.5	2002.8	2002.8
72.5°	15322.1	10013.5	4705.0	3043.5	1382.0	1446.2	1510.6	1630.4	1749.9	1770.0
75°	11910.3	7627.5	3344.8	2208.9	1073.1	1131.3	1189.6	1323.7	1457.9	1550.6
77.5°	8509.7	5338.6	2167.5	1496.8	826.2	865.7	905.5	1035.8	1166.0	1318.8
80°	5569.5	3439.6	1309.6	964.4	619.4	635.8	652.2	762.6	872.7	1055.3
82.5°	3237.5	1990.7	744.1	593.2	442.6	445.5	448.8	530.0	611.2	767.1
85°	1424.4	895.5	366.7	317.1	267.7	266.2	264.6	324.1	383.5	499.4
87.5°	441.0	293.3	145.6	131.5	117.3	115.9	114.4	138.6	163.1	211.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
5289.2	2.5°	5249.8	5210.6	5175.1	5139.9	5108.9	5077.9	5046.7	5015.8	4991.8	4967.6
5242.4	5°	5168.2	5093.7	5031.4	4969.2	4914.2	4859.3	4809.4	4759.4	4721.0	4682.5
5225.6	7.5°	5126.7	5028.1	4946.0	4864.0	4794.9	4725.6	4664.4	4603.5	4557.8	4512.2
5233.8	10°	5129.6	5025.4	4943.4	4861.3	4786.9	4712.2	4643.5	4574.8	4520.2	4465.5
5244.0	12.5°	5158.7	5073.8	5019.3	4965.1	4906.5	4848.2	4777.0	4706.1	4636.3	4566.6
5200.4	15°	5159.5	5118.9	5126.3	5133.7	5118.5	5103.3	5041.6	4979.9	4880.6	4781.3
5067.0	17.5°	5082.0	5096.8	5186.2	5275.6	5323.2	5370.6	5320.8	5271.1	5139.7	5008.2
4849.6	20°	4919.4	4989.1	5144.4	5299.8	5399.3	5498.8	5475.8	5452.6	5302.3	5152.2
4602.9	22.5°	4706.1	4809.2	4986.4	5164.1	5293.5	5422.9	5436.8	5450.6	5307.0	5163.4
4363.5	25°	4482.5	4601.5	4760.8	4920.4	5047.8	5175.1	5222.7	5270.1	5152.4	5034.8
4154.3	27.5°	4269.2	4384.1	4515.1	4646.0	4748.1	4850.3	4903.2	4956.3	4872.4	4788.7
3970.4	30°	4061.4	4152.9	4261.6	4370.3	4455.0	4539.9	4583.0	4626.1	4562.3	4498.3
3809.2	32.5°	3863.1	3917.0	4003.8	4090.8	4172.0	4253.4	4301.2	4349.2	4290.5	4231.7
3657.0	35°	3671.7	3686.7	3753.0	3819.0	3899.4	3980.0	4037.4	4094.9	4053.0	4011.4
3497.4	37.5°	3481.0	3464.6	3512.2	3559.5	3639.7	3720.1	3791.1	3862.1	3842.8	3823.5
3322.7	40°	3285.5	3248.4	3282.7	3316.9	3394.4	3472.0	3553.6	3635.4	3640.2	3644.7
3137.0	42.5°	3087.8	3038.6	3066.5	3094.6	3168.0	3241.6	3329.8	3418.0	3441.6	3465.2
2952.4	45°	2904.5	2856.7	2880.0	2903.8	2973.6	3043.3	3134.8	3226.3	3260.1	3293.9
2787.7	47.5°	2747.5	2707.3	2729.5	2751.4	2819.7	2887.8	2978.1	3068.3	3107.3	3146.3
2642.7	50°	2607.1	2571.6	2606.0	2640.7	2705.1	2769.3	2850.1	2930.9	2981.0	3031.0
2534.7	52.5°	2499.4	2464.3	2516.2	2567.9	2626.9	2685.8	2761.1	2836.6	2895.8	2955.1
2477.2	55°	2421.4	2365.9	2439.5	2512.9	2576.5	2640.1	2706.1	2772.0	2834.7	2897.7
2442.8	57.5°	2361.5	2280.3	2359.5	2438.7	2513.3	2588.0	2653.2	2718.6	2782.0	2845.2
2410.4	60°	2305.1	2199.7	2269.2	2338.6	2424.3	2510.0	2576.3	2642.7	2706.3	2769.9
2372.6	62.5°	2240.9	2109.5	2153.6	2197.7	2297.6	2397.6	2468.4	2539.2	2597.4	2655.7
2293.0	65°	2153.2	2013.1	2030.1	2046.9	2154.0	2261.3	2328.9	2396.6	2447.9	2499.2
2151.1	67.5°	2034.6	1918.1	1912.8	1907.4	2006.3	2105.4	2169.6	2233.6	2277.9	2322.2
1971.0	70°	1888.2	1805.3	1786.8	1768.4	1855.4	1942.3	1997.7	2053.1	2093.1	2133.1
1770.4	72.5°	1713.6	1656.8	1629.7	1602.9	1671.4	1739.7	1789.7	1839.8	1878.9	1918.1
1542.8	75°	1499.1	1455.2	1429.4	1403.3	1454.2	1505.0	1550.4	1595.7	1631.4	1667.1
1314.7	77.5°	1279.6	1244.6	1218.3	1192.1	1233.5	1274.7	1313.7	1352.6	1390.2	1427.5
1054.6	80°	1025.3	995.8	973.8	951.7	986.1	1020.4	1053.2	1086.0	1114.5	1142.8
775.7	82.5°	761.3	747.0	731.4	715.8	712.9	710.1	698.6	687.1	747.8	808.5
510.7	85°	495.3	479.9	462.5	445.1	430.3	415.3	383.5	351.8	408.6	465.6
225.6	87.5°	219.5	213.3	210.0	206.7	206.1	205.5	181.3	156.9	180.7	204.7
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
4948.1	2.5°	4928.6	4913.4	4898.2	4884.3	4870.1	4852.7	4870.1	4884.3	4898.2	4913.4
4655.6	5°	4628.7	4609.7	4590.6	4576.0	4561.5	4547.1	4561.5	4576.0	4590.6	4609.7
4480.2	7.5°	4448.3	4426.3	4404.6	4391.4	4378.5	4368.7	4378.5	4391.4	4404.6	4426.3
4429.8	10°	4393.7	4373.0	4352.3	4341.2	4330.1	4325.6	4330.1	4341.2	4352.3	4373.0
4520.4	12.5°	4474.3	4451.1	4428.2	4418.7	4409.3	4407.6	4409.3	4418.7	4428.2	4451.1
4711.2	15°	4641.0	4608.8	4576.9	4564.5	4552.2	4551.2	4552.2	4564.5	4576.9	4608.8
4904.8	17.5°	4801.4	4753.9	4706.1	4690.5	4674.7	4672.2	4674.7	4690.5	4706.1	4753.9
5025.4	20°	4898.9	4837.9	4776.8	4757.3	4737.9	4731.7	4737.9	4757.3	4776.8	4837.9
5033.0	22.5°	4902.3	4838.2	4773.8	4752.2	4730.7	4721.4	4730.7	4752.2	4773.8	4838.2
4918.8	25°	4803.1	4747.3	4691.7	4671.4	4651.3	4639.4	4651.3	4671.4	4691.7	4747.3
4698.7	27.5°	4608.6	4571.3	4533.8	4524.6	4515.3	4512.2	4515.3	4524.6	4533.8	4571.3
4433.9	30°	4369.1	4350.0	4330.7	4330.7	4330.7	4333.8	4330.7	4330.7	4330.7	4350.0
4180.2	32.5°	4128.7	4116.2	4103.7	4105.3	4107.2	4110.2	4107.2	4105.3	4103.7	4116.2
3963.8	35°	3916.4	3897.3	3878.5	3874.4	3870.3	3868.2	3870.3	3874.4	3878.5	3897.3
3779.8	37.5°	3735.9	3701.3	3666.8	3648.6	3630.3	3620.1	3630.3	3648.6	3666.8	3701.3
3607.5	40°	3570.4	3520.0	3469.9	3435.9	3402.2	3382.1	3402.2	3435.9	3469.9	3520.0
3433.8	42.5°	3402.6	3340.1	3277.5	3228.1	3178.7	3146.3	3178.7	3228.1	3277.5	3340.1
3265.6	45°	3237.5	3166.0	3094.6	3036.5	2978.5	2941.2	2978.5	3036.5	3094.6	3166.0
3126.6	47.5°	3106.9	3043.3	2979.7	2926.0	2872.5	2836.6	2872.5	2926.0	2979.7	3043.3
3029.8	50°	3028.9	2978.1	2927.2	2877.6	2827.9	2793.5	2827.9	2877.6	2927.2	2978.1
2965.8	52.5°	2976.4	2935.0	2893.6	2849.1	2804.8	2773.0	2804.8	2849.1	2893.6	2935.0
2912.4	55°	2927.2	2891.1	2855.0	2816.1	2777.1	2748.4	2777.1	2816.1	2855.0	2891.1
2860.1	57.5°	2875.1	2838.6	2802.1	2763.5	2724.8	2695.0	2724.8	2763.5	2802.1	2838.6
2786.3	60°	2802.7	2767.0	2731.5	2691.8	2652.0	2621.2	2652.0	2691.8	2731.5	2767.0
2671.5	62.5°	2687.2	2655.0	2622.8	2581.0	2539.2	2502.2	2539.2	2581.0	2622.8	2655.0
2515.4	65°	2531.4	2500.4	2469.4	2428.8	2388.4	2356.6	2388.4	2428.8	2469.4	2500.4
2338.0	67.5°	2353.5	2325.0	2296.7	2259.0	2221.3	2192.5	2221.3	2259.0	2296.7	2325.0
2148.2	70°	2163.4	2140.2	2117.1	2081.0	2044.9	2012.1	2044.9	2081.0	2117.1	2140.2
1936.2	72.5°	1954.2	1934.9	1915.7	1881.2	1846.9	1815.2	1846.9	1881.2	1915.7	1934.9
1685.9	75°	1704.8	1695.4	1685.9	1657.0	1628.1	1597.7	1628.1	1657.0	1685.9	1695.4
1445.1	77.5°	1462.8	1449.7	1436.1	1407.0	1377.9	1353.7	1377.9	1407.0	1436.1	1449.7
1166.2	80°	1189.6	1183.8	1178.3	1139.1	1099.8	1054.2	1099.8	1139.1	1178.3	1183.8
848.3	82.5°	888.1	885.6	883.0	849.9	816.7	787.6	816.7	849.9	883.0	885.6
514.8	85°	564.0	559.9	555.8	530.0	504.1	477.9	504.1	530.0	555.8	559.9
224.6	87.5°	244.5	239.6	234.2	221.1	207.6	194.8	207.6	221.1	234.2	239.6
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
4928.6	2.5°	4948.1	4967.6	4991.8	5015.8	5046.7	5077.9	5108.9	5139.9	5175.1	5210.6
4628.7	5°	4655.6	4682.5	4721.0	4759.4	4809.4	4859.3	4914.2	4969.2	5031.4	5093.7
4448.3	7.5°	4480.2	4512.2	4557.8	4603.5	4664.4	4725.6	4794.9	4864.0	4946.0	5028.1
4393.7	10°	4429.8	4465.5	4520.2	4574.8	4643.5	4712.2	4786.9	4861.3	4943.4	5025.4
4474.3	12.5°	4520.4	4566.6	4636.3	4706.1	4777.0	4848.2	4906.5	4965.1	5019.3	5073.8
4641.0	15°	4711.2	4781.3	4880.6	4979.9	5041.6	5103.3	5118.5	5133.7	5126.3	5118.9
4801.4	17.5°	4904.8	5008.2	5139.7	5271.1	5320.8	5370.6	5323.2	5275.6	5186.2	5096.8
4898.9	20°	5025.4	5152.2	5302.3	5452.6	5475.8	5498.8	5399.3	5299.8	5144.4	4989.1
4902.3	22.5°	5033.0	5163.4	5307.0	5450.6	5436.8	5422.9	5293.5	5164.1	4986.4	4809.2
4803.1	25°	4918.8	5034.8	5152.4	5270.1	5222.7	5175.1	5047.8	4920.4	4760.8	4601.5
4608.6	27.5°	4698.7	4788.7	4872.4	4956.3	4903.2	4850.3	4748.1	4646.0	4515.1	4384.1
4369.1	30°	4433.9	4498.3	4562.3	4626.1	4583.0	4539.9	4455.0	4370.3	4261.6	4152.9
4128.7	32.5°	4180.2	4231.7	4290.5	4349.2	4301.2	4253.4	4172.0	4090.8	4003.8	3917.0
3916.4	35°	3963.8	4011.4	4053.0	4094.9	4037.4	3980.0	3899.4	3819.0	3753.0	3686.7
3735.9	37.5°	3779.8	3823.5	3842.8	3862.1	3791.1	3720.1	3639.7	3559.5	3512.2	3464.6
3570.4	40°	3607.5	3644.7	3640.2	3635.4	3553.6	3472.0	3394.4	3316.9	3282.7	3248.4
3402.6	42.5°	3433.8	3465.2	3441.6	3418.0	3329.8	3241.6	3168.0	3094.6	3066.5	3038.6
3237.5	45°	3265.6	3293.9	3260.1	3226.3	3134.8	3043.3	2973.6	2903.8	2880.0	2856.7
3106.9	47.5°	3126.6	3146.3	3107.3	3068.3	2978.1	2887.8	2819.7	2751.4	2729.5	2707.3
3028.9	50°	3029.8	3031.0	2981.0	2930.9	2850.1	2769.3	2705.1	2640.7	2606.0	2571.6
2976.4	52.5°	2965.8	2955.1	2895.8	2836.6	2761.1	2685.8	2626.9	2567.9	2516.2	2464.3
2927.2	55°	2912.4	2897.7	2834.7	2772.0	2706.1	2640.1	2576.5	2512.9	2439.5	2365.9
2875.1	57.5°	2860.1	2845.2	2782.0	2718.6	2653.2	2588.0	2513.3	2438.7	2359.5	2280.3
2802.7	60°	2786.3	2769.9	2706.3	2642.7	2576.3	2510.0	2424.3	2338.6	2269.2	2199.7
2687.2	62.5°	2671.5	2655.7	2597.4	2539.2	2468.4	2397.6	2297.6	2197.7	2153.6	2109.5
2531.4	65°	2515.4	2499.2	2447.9	2396.6	2328.9	2261.3	2154.0	2046.9	2030.1	2013.1
2353.5	67.5°	2338.0	2322.2	2277.9	2233.6	2169.6	2105.4	2006.3	1907.4	1912.8	1918.1
2163.4	70°	2148.2	2133.1	2093.1	2053.1	1997.7	1942.3	1855.4	1768.4	1786.8	1805.3
1954.2	72.5°	1936.2	1918.1	1878.9	1839.8	1789.7	1739.7	1671.4	1602.9	1629.7	1656.8
1704.8	75°	1685.9	1667.1	1631.4	1595.7	1550.4	1505.0	1454.2	1403.3	1429.4	1455.2
1462.8	77.5°	1445.1	1427.5	1390.2	1352.6	1313.7	1274.7	1233.5	1192.1	1218.3	1244.6
1189.6	80°	1166.2	1142.8	1114.5	1086.0	1053.2	1020.4	986.1	951.7	973.8	995.8
888.1	82.5°	848.3	808.5	747.8	687.1	698.6	710.1	712.9	715.8	731.4	747.0
564.0	85°	514.8	465.6	408.6	351.8	383.5	415.3	430.3	445.1	462.5	479.9
244.5	87.5°	224.6	204.7	180.7	156.9	181.3	205.5	206.1	206.7	210.0	213.3
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
5249.8	2.5°	5289.2	5337.8	5381.5	5426.6	5471.7	5518.9	5566.1	5612.8	5659.8	5703.9
5168.2	5°	5242.4	5327.5	5413.7	5504.9	5596.2	5693.8	5791.7	5888.7	5985.9	6083.3
5126.7	7.5°	5225.6	5335.7	5453.3	5580.6	5708.0	5852.6	5997.2	6145.7	6294.2	6454.8
5129.6	10°	5233.8	5352.1	5497.1	5648.1	5798.6	5974.4	6150.0	6346.1	6542.3	6745.6
5158.7	12.5°	5244.0	5354.2	5506.6	5677.0	5847.5	6054.6	6261.8	6484.1	6706.4	6929.6
5159.5	15°	5200.4	5288.6	5457.4	5654.7	5852.0	6090.5	6329.0	6570.2	6811.4	7044.2
5082.0	17.5°	5067.0	5121.4	5319.9	5557.2	5794.5	6071.4	6348.3	6611.5	6874.6	7110.7
4919.4	20°	4849.6	4864.0	5095.1	5389.3	5683.4	6018.9	6354.5	6643.7	6932.9	7178.4
4706.1	22.5°	4602.9	4574.8	4837.9	5192.2	5546.4	5954.5	6362.7	6687.1	7011.4	7262.3
4482.5	25°	4363.5	4287.7	4557.4	4972.1	5387.0	5890.9	6395.1	6765.9	7136.5	7382.0
4269.2	27.5°	4154.3	4062.0	4307.6	4770.9	5234.2	5848.5	6462.8	6889.0	7315.0	7549.4
4061.4	30°	3970.4	3898.0	4104.1	4602.7	5101.3	5828.6	6555.5	7048.3	7541.2	7767.4
3863.1	32.5°	3809.2	3777.0	3943.1	4457.7	4972.1	5804.0	6635.5	7214.7	7793.9	8017.8
3671.7	35°	3657.0	3670.3	3808.7	4315.1	4821.5	5757.6	6694.1	7404.2	8114.2	8329.0
3481.0	37.5°	3497.4	3546.2	3667.2	4147.4	4627.5	5678.3	6729.0	7616.5	8503.9	8777.5
3285.5	40°	3322.7	3397.5	3507.2	3947.2	4387.1	5568.9	6750.9	7886.0	9020.8	9419.5
3087.8	42.5°	3137.0	3231.4	3332.5	3726.3	4120.1	5456.1	6792.6	8238.5	9684.5	10260.0
2904.5	45°	2952.4	3043.7	3146.3	3491.7	3837.0	5351.3	6865.8	8702.5	10539.2	11315.5
2747.5	47.5°	2787.7	2866.3	2998.6	3306.0	3613.5	5264.8	6916.0	9196.8	11477.5	12570.3
2607.1	50°	2642.7	2734.0	2907.9	3182.8	3457.6	5170.4	6883.2	9655.4	12427.5	14074.9
2499.4	52.5°	2534.7	2662.2	2862.2	3101.6	3341.1	5011.1	6681.2	9953.2	13225.0	15655.4
2421.4	55°	2477.2	2669.4	2855.4	3042.7	3229.9	4746.9	6263.8	9887.6	13511.1	17056.7
2361.5	57.5°	2442.8	2676.6	2840.7	2973.0	3105.2	4374.4	5643.4	9425.7	13208.2	18049.8
2305.1	60°	2410.4	2654.0	2762.3	2866.3	2970.3	3890.8	4811.3	8566.1	12320.9	18298.0
2240.9	62.5°	2372.6	2598.6	2612.0	2680.9	2750.0	3312.0	3874.0	7403.8	10933.6	17253.0
2153.2	65°	2293.0	2465.3	2463.7	2496.3	2528.9	2791.2	3053.6	6217.9	9382.4	15774.4
2034.6	67.5°	2151.1	2247.9	2252.4	2234.4	2216.1	2290.8	2365.2	5056.2	7747.1	14014.8
1888.2	70°	1971.0	2002.8	2002.8	1918.5	1834.0	1812.9	1791.6	3981.0	6170.5	12094.9
1713.6	72.5°	1770.4	1770.0	1749.9	1630.4	1510.6	1446.2	1382.0	3043.5	4705.0	10013.5
1499.1	75°	1542.8	1550.6	1457.9	1323.7	1189.6	1131.3	1073.1	2208.9	3344.8	7627.5
1279.6	77.5°	1314.7	1318.8	1166.0	1035.8	905.5	865.7	826.2	1496.8	2167.5	5338.6
1025.3	80°	1054.6	1055.3	872.7	762.6	652.2	635.8	619.4	964.4	1309.6	3439.6
761.3	82.5°	775.7	767.1	611.2	530.0	448.8	445.5	442.6	593.2	744.1	1990.7
495.3	85°	510.7	499.4	383.5	324.1	264.6	266.2	267.7	317.1	366.7	895.5
219.5	87.5°	225.6	211.3	163.1	138.6	114.4	115.9	117.3	131.5	145.6	293.3
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°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
5748.0	2.5°	5769.7	5791.7	5822.6	5853.6	5872.1	5890.5	5899.8	5909.0	5904.9	5909.0
6180.8	5°	6256.8	6333.1	6408.6	6484.3	6525.3	6566.3	6591.2	6616.2	6635.1	6616.2
6615.6	7.5°	6739.4	6863.1	6974.5	7085.9	7152.9	7220.0	7256.3	7292.4	7309.8	7292.4
6948.9	10°	7095.3	7241.7	7372.4	7503.0	7582.2	7661.0	7696.2	7731.3	7744.7	7731.3
7152.9	12.5°	7311.7	7470.2	7588.4	7706.1	7763.5	7821.0	7840.2	7859.5	7861.6	7859.5
7277.0	15°	7414.0	7550.8	7624.9	7699.1	7701.2	7703.2	7682.7	7662.2	7638.0	7662.2
7346.8	17.5°	7439.3	7531.8	7533.2	7534.4	7451.4	7368.3	7292.2	7215.9	7162.2	7215.9
7423.7	20°	7455.9	7488.3	7390.9	7293.4	7110.1	6926.7	6793.2	6659.7	6577.6	6659.7
7512.9	22.5°	7470.6	7428.4	7226.6	7024.7	6755.0	6485.3	6318.4	6151.4	6060.8	6151.4
7627.7	25°	7494.4	7361.1	7054.7	6748.3	6420.7	6093.2	5917.6	5742.4	5656.7	5742.4
7783.6	27.5°	7545.3	7306.8	6900.9	6495.2	6132.1	5769.1	5596.4	5423.9	5342.9	5423.9
7993.9	30°	7638.4	7283.2	6783.5	6283.9	5905.7	5527.5	5367.3	5207.1	5131.7	5207.1
8242.0	32.5°	7755.3	7268.8	6703.6	6138.3	5782.9	5427.4	5301.7	5175.8	5121.4	5175.8
8543.5	35°	7947.9	7352.5	6763.4	6174.6	5927.7	5680.9	5651.6	5622.3	5617.7	5622.3
9051.2	37.5°	8350.5	7649.9	7114.6	6579.3	6563.3	6547.3	6681.4	6815.5	6885.3	6815.5
9818.2	40°	9056.3	8294.3	7896.2	7498.1	7779.1	8060.1	8386.2	8712.3	8874.8	8712.3
10835.5	42.5°	10079.5	9323.5	9094.2	8864.9	9477.8	10090.6	10683.8	11276.9	11625.2	11276.9
12091.8	45°	11412.7	10733.4	10632.3	10531.0	11512.8	12494.8	13469.5	14444.3	15036.0	14444.3
13662.9	47.5°	13002.2	12341.4	12320.9	12300.4	13716.8	15132.8	16559.7	17986.4	18824.3	17986.4
15722.1	50°	14906.0	14090.1	14093.6	14097.1	15922.5	17747.9	19631.3	21514.8	22653.5	21514.8
18085.9	52.5°	17097.7	16109.7	16009.9	15909.8	18090.2	20270.6	22601.0	24931.2	26296.1	24931.2
20602.5	55°	19626.2	18649.9	18260.4	17871.0	20297.7	22724.3	25502.4	28280.5	29903.9	28280.5
22891.4	57.5°	22359.8	21828.0	21046.8	20265.7	22716.1	25166.4	28313.1	31459.6	33472.7	31459.6
24274.9	60°	25100.6	25926.5	24956.4	23986.3	26305.2	28624.0	31993.1	35362.1	37537.8	35362.1
23572.4	62.5°	25828.7	28085.0	27975.7	27866.2	29990.4	32114.9	35320.2	38525.3	40536.4	38525.3
22166.4	65°	24284.1	26401.8	26820.8	27239.6	29939.2	32638.9	35747.0	38854.9	40567.1	38854.9
20282.5	67.5°	22296.6	24310.7	24507.2	24703.5	27516.3	30328.9	33450.3	36571.7	37913.1	36571.7
18019.2	70°	20209.9	22400.8	22488.6	22576.6	25092.0	27607.1	30293.4	32979.4	33724.9	32979.4
15322.1	72.5°	17836.1	20350.2	20413.4	20476.4	22444.3	24412.3	26424.1	28435.8	28511.2	28435.8
11910.3	75°	14512.2	17114.1	17347.7	17581.3	19112.4	20643.5	22059.8	23476.0	23096.5	23476.0
8509.7	77.5°	10938.5	13367.5	13701.8	14036.2	15200.1	16364.1	17368.5	18373.0	17720.8	18373.0
5569.5	80°	7613.0	9656.2	10071.7	10487.3	11366.3	12245.0	12772.5	13299.8	12250.7	13299.8
3237.5	82.5°	4634.5	6031.6	6495.8	6960.1	7565.2	8170.2	8390.3	8610.2	7785.7	8610.2
1424.4	85°	2165.9	2907.3	3302.1	3697.0	4194.1	4691.1	4816.0	4940.9	4280.5	4940.9
441.0	87.5°	690.2	939.4	1159.6	1379.9	1628.5	1877.1	1887.8	1898.2	1593.6	1898.2
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°
5345.0	0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
5899.8	2.5°	5890.5	5872.1	5853.6	5822.6	5791.7	5769.7	5748.0
6591.2	5°	6566.3	6525.3	6484.3	6408.6	6333.1	6256.8	6180.8
7256.3	7.5°	7220.0	7152.9	7085.9	6974.5	6863.1	6739.4	6615.6
7696.2	10°	7661.0	7582.2	7503.0	7372.4	7241.7	7095.3	6948.9
7840.2	12.5°	7821.0	7763.5	7706.1	7588.4	7470.2	7311.7	7152.9
7682.7	15°	7703.2	7701.2	7699.1	7624.9	7550.8	7414.0	7277.0
7292.2	17.5°	7368.3	7451.4	7534.4	7533.2	7531.8	7439.3	7346.8
6793.2	20°	6926.7	7110.1	7293.4	7390.9	7488.3	7455.9	7423.7
6318.4	22.5°	6485.3	6755.0	7024.7	7226.6	7428.4	7470.6	7512.9
5917.6	25°	6093.2	6420.7	6748.3	7054.7	7361.1	7494.4	7627.7
5596.4	27.5°	5769.1	6132.1	6495.2	6900.9	7306.8	7545.3	7783.6
5367.3	30°	5527.5	5905.7	6283.9	6783.5	7283.2	7638.4	7993.9
5301.7	32.5°	5427.4	5782.9	6138.3	6703.6	7268.8	7755.3	8242.0
5651.6	35°	5680.9	5927.7	6174.6	6763.4	7352.5	7947.9	8543.5
6681.4	37.5°	6547.3	6563.3	6579.3	7114.6	7649.9	8350.5	9051.2
8386.2	40°	8060.1	7779.1	7498.1	7896.2	8294.3	9056.3	9818.2
10683.8	42.5°	10090.6	9477.8	8864.9	9094.2	9323.5	10079.5	10835.5
13469.5	45°	12494.8	11512.8	10531.0	10632.3	10733.4	11412.7	12091.8
16559.7	47.5°	15132.8	13716.8	12300.4	12320.9	12341.4	13002.2	13662.9
19631.3	50°	17747.9	15922.5	14097.1	14093.6	14090.1	14906.0	15722.1
22601.0	52.5°	20270.6	18090.2	15909.8	16009.9	16109.7	17097.7	18085.9
25502.4	55°	22724.3	20297.7	17871.0	18260.4	18649.9	19626.2	20602.5
28313.1	57.5°	25166.4	22716.1	20265.7	21046.8	21828.0	22359.8	22891.4
31993.1	60°	28624.0	26305.2	23986.3	24956.4	25926.5	25100.6	24274.9
35320.2	62.5°	32114.9	29990.4	27866.2	27975.7	28085.0	25828.7	23572.4
35747.0	65°	32638.9	29939.2	27239.6	26820.8	26401.8	24284.1	22166.4
33450.3	67.5°	30328.9	27516.3	24703.5	24507.2	24310.7	22296.6	20282.5
30293.4	70°	27607.1	25092.0	22576.6	22488.6	22400.8	20209.9	18019.2
26424.1	72.5°	24412.3	22444.3	20476.4	20413.4	20350.2	17836.1	15322.1
22059.8	75°	20643.5	19112.4	17581.3	17347.7	17114.1	14512.2	11910.3
17368.5	77.5°	16364.1	15200.1	14036.2	13701.8	13367.5	10938.5	8509.7
12772.5	80°	12245.0	11366.3	10487.3	10071.7	9656.2	7613.0	5569.5
8390.3	82.5°	8170.2	7565.2	6960.1	6495.8	6031.6	4634.5	3237.5
4816.0	85°	4691.1	4194.1	3697.0	3302.1	2907.3	2165.9	1424.4
1887.8	87.5°	1877.1	1628.5	1379.9	1159.6	939.4	690.2	441.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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