

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: P953555

Luminaire Tested: **GALN-SB7A-827-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953555
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-SB7A-827-U-SLL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27641 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

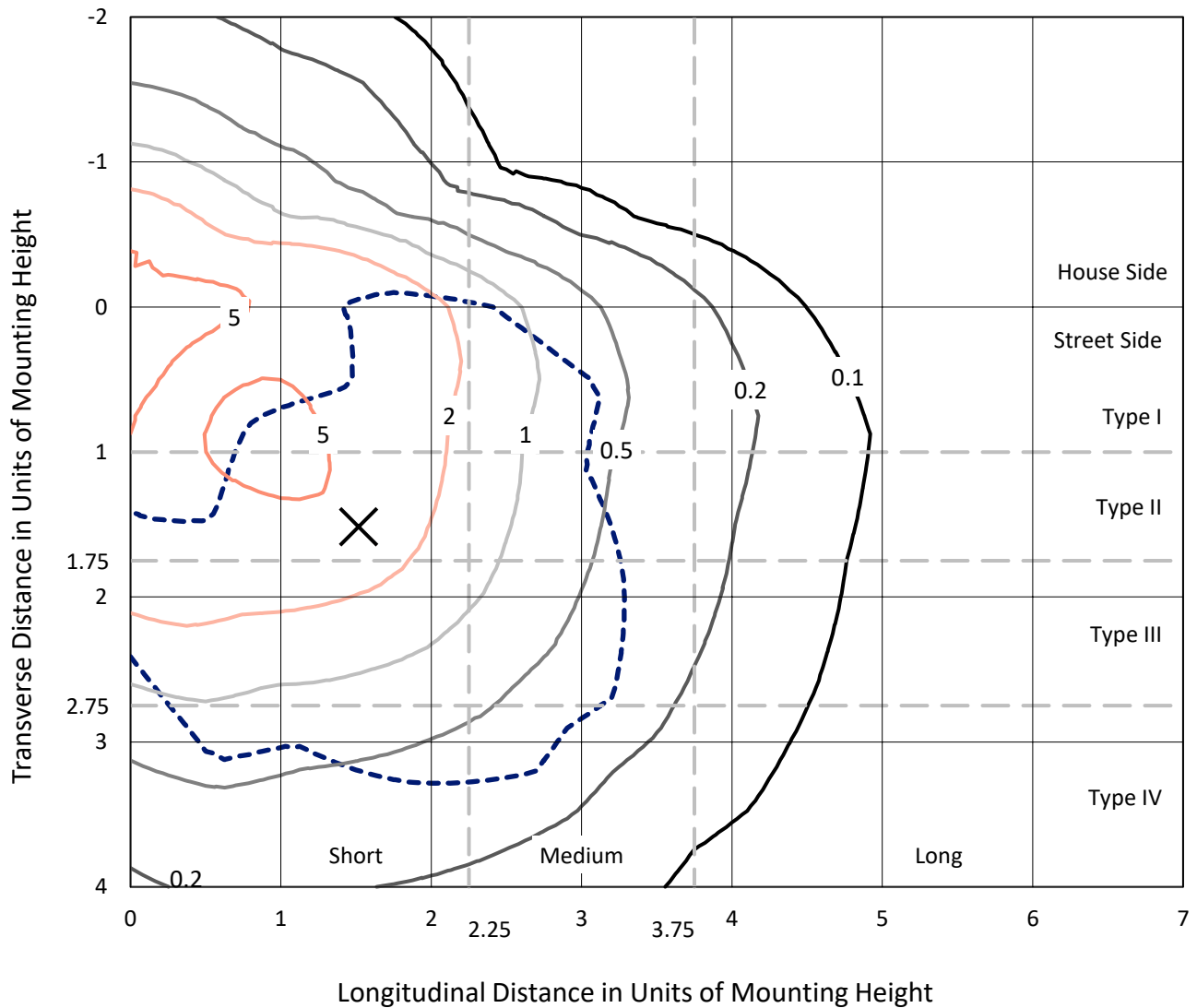
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

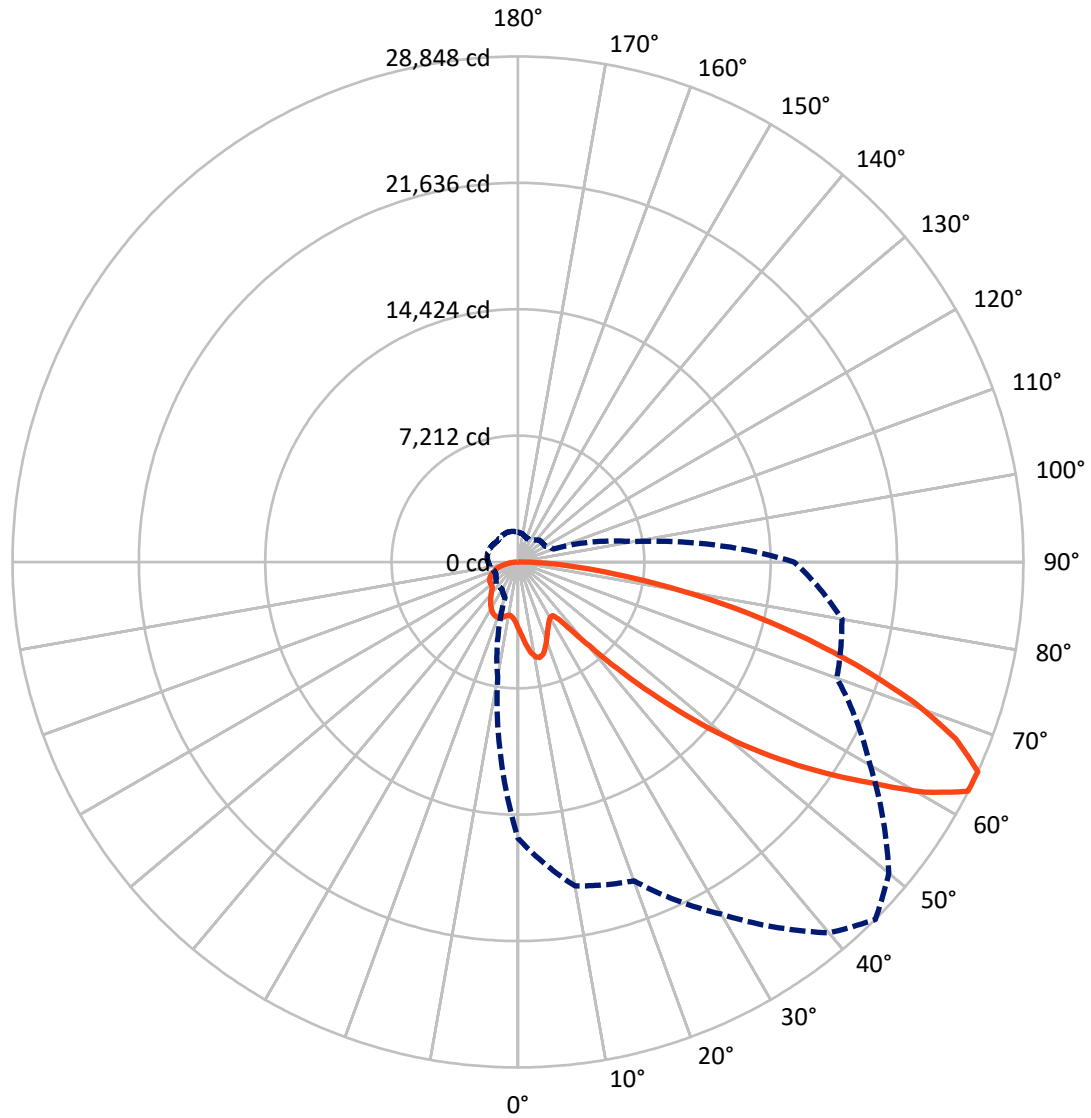
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7025.0	0.0	7025.0
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	20616.1	0.0	20616.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	27641.0	0.0	27641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	1.4
10°-20°	1183.6	4.3
20°-30°	1828.3	6.6
30°-40°	2316.9	8.4
40°-50°	3494.5	12.6
50°-60°	5645.8	20.4
60°-70°	7038.4	25.5
70°-80°	4615.4	16.7
80°-90°	1141.1	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27641.0	100.0
0°-180°	27641.0	100.0

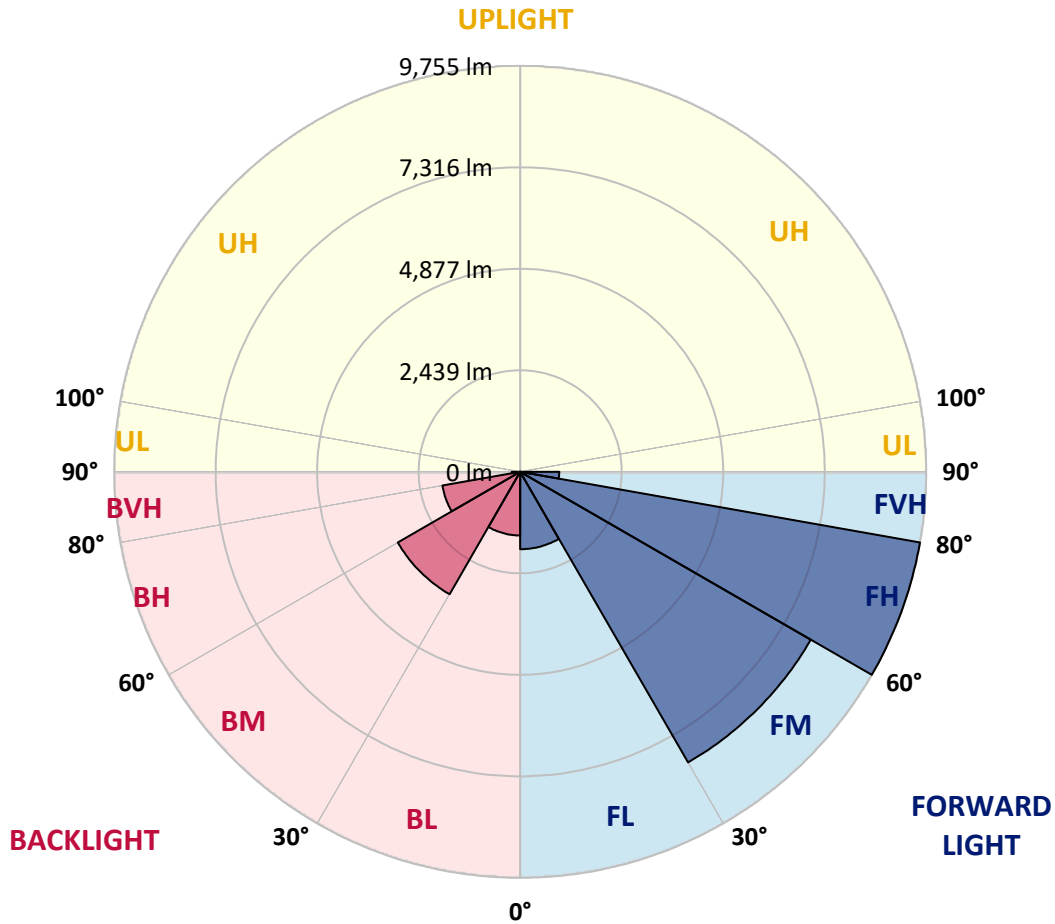


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1859.2	6.7			
FM (30°-60°)	8062.3	29.2			
FH (60°-80°)	9754.6	35.3			G4/12000
FVH (80°-90°)	940.0	3.4			G5
BL (0°-30°)	1529.8	5.5	B3/2500		
BM (30°-60°)	3394.9	12.3	B3/5000		
BH (60°-80°)	1899.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	201.1	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°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
2.5°	4087.5	4102.9	4118.5	4140.6	4162.6	4175.7	4188.8	4195.4	4202.0	4199.0
5°	4395.2	4449.3	4503.6	4557.3	4611.1	4640.2	4669.4	4687.1	4704.9	4718.3
7.5°	4704.4	4792.5	4880.5	4959.7	5038.9	5086.6	5134.2	5160.1	5185.7	5198.1
10°	4941.4	5045.6	5149.7	5242.6	5335.5	5391.8	5447.8	5472.9	5497.9	5507.3
12.5°	5086.6	5199.4	5312.2	5396.2	5479.9	5520.7	5561.6	5575.3	5589.0	5590.5
15°	5174.8	5272.2	5369.5	5422.2	5475.0	5476.4	5477.9	5463.3	5448.7	5431.5
17.5°	5224.4	5290.2	5355.9	5357.0	5357.8	5298.8	5239.7	5185.6	5131.3	5093.1
20°	5279.1	5302.0	5325.0	5255.7	5186.5	5056.1	4925.7	4830.7	4735.8	4677.4
22.5°	5342.5	5312.5	5282.4	5138.9	4995.4	4803.6	4611.8	4493.1	4374.4	4309.9
25°	5424.2	5329.4	5234.6	5016.7	4798.8	4565.9	4332.9	4208.1	4083.5	4022.6
27.5°	5535.0	5365.6	5195.9	4907.3	4618.8	4360.7	4102.5	3979.7	3857.0	3799.4
30°	5684.5	5431.8	5179.2	4823.9	4468.6	4199.6	3930.7	3816.8	3702.9	3649.2
32.5°	5861.0	5514.9	5169.0	4767.0	4365.0	4112.3	3859.5	3770.1	3680.5	3641.9
35°	6075.4	5651.9	5228.5	4809.6	4390.8	4215.2	4039.8	4018.9	3998.1	3994.9
37.5°	6436.4	5938.2	5439.9	5059.3	4678.6	4667.2	4655.9	4751.2	4846.6	4896.2
40°	6981.9	6440.0	5898.2	5615.1	5332.0	5531.8	5731.7	5963.6	6195.5	6311.0
42.5°	7705.3	7167.7	6630.1	6467.0	6304.0	6739.8	7175.6	7597.4	8019.2	8266.8
45°	8598.6	8115.7	7632.7	7560.8	7488.7	8186.9	8885.2	9578.3	10271.6	10692.3
47.5°	9715.9	9246.1	8776.1	8761.6	8747.0	9754.2	10761.2	11775.9	12790.4	13386.2
50°	11180.2	10599.9	10019.7	10022.1	10024.6	11322.7	12620.8	13960.1	15299.5	16109.2
52.5°	12861.1	12158.4	11455.9	11384.8	11313.7	12864.2	14414.7	16071.9	17728.9	18699.5
55°	14650.7	13956.5	13262.2	12985.3	12708.3	14434.0	16159.6	18135.1	20110.7	21265.1
57.5°	16278.4	15900.4	15522.2	14966.6	14411.2	16153.7	17896.2	20133.8	22371.3	23802.9
60°	17262.2	17849.4	18436.7	17746.9	17057.0	18706.0	20355.0	22750.7	25146.5	26693.6
62.5°	16762.6	18367.2	19971.7	19893.9	19816.0	21326.6	22837.3	25116.7	27395.9	28826.0
65°	15762.8	17268.8	18774.7	19072.6	19370.5	21290.2	23210.0	25420.2	27630.3	28847.9
67.5°	14423.2	15855.5	17287.7	17427.4	17567.0	19567.2	21567.3	23787.0	26006.7	26960.5
70°	12813.7	14371.6	15929.5	15992.0	16054.5	17843.3	19631.8	21542.0	23452.1	23982.3
72.5°	10895.8	12683.5	14471.3	14516.3	14561.0	15960.5	17359.9	18790.6	20221.1	20274.7
75°	8469.6	10319.8	12170.1	12336.2	12502.3	13591.1	14679.9	15687.0	16694.1	16424.3
77.5°	6051.4	7778.5	9505.8	9743.6	9981.3	10809.0	11636.7	12350.9	13065.3	12601.5
80°	3960.6	5413.7	6866.7	7162.2	7457.7	8082.8	8707.6	9082.7	9457.7	8711.7
82.5°	2302.3	3295.6	4289.2	4619.2	4949.5	5379.7	5810.0	5966.5	6122.8	5536.5
85°	1012.9	1540.2	2067.4	2348.2	2629.0	2982.5	3335.9	3424.7	3513.5	3043.9
87.5°	313.6	490.8	668.0	824.6	981.3	1158.1	1334.8	1342.4	1349.9	1133.3
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°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
4202.0	2.5°	4195.4	4188.8	4175.7	4162.6	4140.6	4118.5	4102.9	4087.5	4056.1	4024.8
4704.9	5°	4687.1	4669.4	4640.2	4611.1	4557.3	4503.6	4449.3	4395.2	4325.9	4256.7
5185.7	7.5°	5160.1	5134.2	5086.6	5038.9	4959.7	4880.5	4792.5	4704.4	4590.1	4475.9
5497.9	10°	5472.9	5447.8	5391.8	5335.5	5242.6	5149.7	5045.6	4941.4	4796.9	4652.4
5589.0	12.5°	5575.3	5561.6	5520.7	5479.9	5396.2	5312.2	5199.4	5086.6	4927.7	4769.0
5448.7	15°	5463.3	5477.9	5476.4	5475.0	5422.2	5369.5	5272.2	5174.8	5009.3	4843.7
5131.3	17.5°	5185.6	5239.7	5298.8	5357.8	5357.0	5355.9	5290.2	5224.4	5056.5	4888.6
4735.8	20°	4830.7	4925.7	5056.1	5186.5	5255.7	5325.0	5302.0	5279.1	5104.6	4930.1
4374.4	22.5°	4493.1	4611.8	4803.6	4995.4	5138.9	5282.4	5312.5	5342.5	5164.3	4985.9
4083.5	25°	4208.1	4332.9	4565.9	4798.8	5016.7	5234.6	5329.4	5424.2	5249.5	5074.9
3857.0	27.5°	3979.7	4102.5	4360.7	4618.8	4907.3	5195.9	5365.6	5535.0	5368.5	5201.8
3702.9	30°	3816.8	3930.7	4199.6	4468.6	4823.9	5179.2	5431.8	5684.5	5523.5	5362.6
3680.5	32.5°	3770.1	3859.5	4112.3	4365.0	4767.0	5169.0	5514.9	5861.0	5701.6	5542.3
3998.1	35°	4018.9	4039.8	4215.2	4390.8	4809.6	5228.5	5651.9	6075.4	5922.9	5770.2
4846.6	37.5°	4751.2	4655.9	4667.2	4678.6	5059.3	5439.9	5938.2	6436.4	6241.8	6047.3
6195.5	40°	5963.6	5731.7	5531.8	5332.0	5615.1	5898.2	6440.0	6981.9	6698.4	6414.8
8019.2	42.5°	7597.4	7175.6	6739.8	6304.0	6467.0	6630.1	7167.7	7705.3	7296.0	6886.8
10271.6	45°	9578.3	8885.2	8186.9	7488.7	7560.8	7632.7	8115.7	8598.6	8046.6	7494.6
12790.4	47.5°	11775.9	10761.2	9754.2	8747.0	8761.6	8776.1	9246.1	9715.9	8938.9	8161.8
15299.5	50°	13960.1	12620.8	11322.7	10024.6	10022.1	10019.7	10599.9	11180.2	10008.9	8837.4
17728.9	52.5°	16071.9	14414.7	12864.2	11313.7	11384.8	11455.9	12158.4	12861.1	11132.8	9404.5
20110.7	55°	18135.1	16159.6	14434.0	12708.3	12985.3	13262.2	13956.5	14650.7	12129.3	9607.9
22371.3	57.5°	20133.8	17896.2	16153.7	14411.2	14966.6	15522.2	15900.4	16278.4	12835.5	9392.5
25146.5	60°	22750.7	20355.0	18706.0	17057.0	17746.9	18436.7	17849.4	17262.2	13011.9	8761.6
27395.9	62.5°	25116.7	22837.3	21326.6	19816.0	19893.9	19971.7	18367.2	16762.6	12268.8	7775.0
27630.3	65°	25420.2	23210.0	21290.2	19370.5	19072.6	18774.7	17268.8	15762.8	11217.4	6672.0
26006.7	67.5°	23787.0	21567.3	19567.2	17567.0	17427.4	17287.7	15855.5	14423.2	9966.1	5509.1
23452.1	70°	21542.0	19631.8	17843.3	16054.5	15992.0	15929.5	14371.6	12813.7	8600.8	4387.9
20221.1	72.5°	18790.6	17359.9	15960.5	14561.0	14516.3	14471.3	12683.5	10895.8	7120.7	3345.8
16694.1	75°	15687.0	14679.9	13591.1	12502.3	12336.2	12170.1	10319.8	8469.6	5424.1	2378.5
13065.3	77.5°	12350.9	11636.7	10809.0	9981.3	9743.6	9505.8	7778.5	6051.4	3796.4	1541.4
9457.7	80°	9082.7	8707.6	8082.8	7457.7	7162.2	6866.7	5413.7	3960.6	2445.9	931.3
6122.8	82.5°	5966.5	5810.0	5379.7	4949.5	4619.2	4289.2	3295.6	2302.3	1415.6	529.1
3513.5	85°	3424.7	3335.9	2982.5	2629.0	2348.2	2067.4	1540.2	1012.9	636.8	260.8
1349.9	87.5°	1342.4	1334.8	1158.1	981.3	824.6	668.0	490.8	313.6	208.6	103.6
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°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3991.4	2.5°	3958.1	3924.6	3891.0	3858.9	3826.8	3795.8	3761.2	3733.2	3705.3	3680.1
4187.5	5°	4118.5	4049.0	3979.5	3914.6	3849.7	3788.5	3728.0	3675.2	3622.2	3577.9
4370.3	7.5°	4264.7	4161.9	4059.0	3968.5	3877.9	3794.3	3716.0	3645.7	3575.5	3517.2
4512.8	10°	4373.3	4248.5	4123.5	4016.4	3909.1	3806.0	3721.8	3647.7	3573.6	3515.3
4610.9	12.5°	4452.8	4305.5	4158.2	4037.0	3915.8	3807.4	3729.1	3668.4	3608.1	3569.3
4672.2	15°	4500.7	4331.0	4161.4	4021.1	3880.8	3760.8	3698.1	3669.0	3640.1	3645.4
4701.5	17.5°	4514.4	4317.5	4120.6	3951.8	3783.1	3641.9	3603.2	3613.9	3624.4	3688.0
4724.4	20°	4518.8	4280.1	4041.5	3832.4	3623.2	3458.9	3448.6	3498.2	3547.8	3658.2
4755.3	22.5°	4524.6	4234.3	3944.1	3692.2	3440.3	3253.2	3273.2	3346.5	3419.9	3545.9
4811.3	25°	4547.6	4189.1	3830.8	3535.7	3240.8	3049.0	3103.0	3187.6	3272.2	3385.5
4898.8	27.5°	4595.8	4158.9	3722.1	3392.6	3063.2	2888.6	2954.2	3035.9	3117.6	3210.8
5012.2	30°	4661.7	4144.8	3627.6	3273.0	2918.5	2771.9	2823.4	2888.1	2953.2	3030.5
5130.5	32.5°	4718.6	4127.3	3535.7	3169.9	2804.0	2685.8	2708.7	2747.1	2785.5	2847.2
5265.2	35°	4760.3	4094.3	3428.7	3068.6	2708.5	2610.0	2600.5	2611.0	2621.7	2668.8
5416.2	37.5°	4785.1	4037.9	3290.7	2949.3	2607.8	2521.8	2487.1	2475.4	2463.7	2497.6
5607.8	40°	4800.7	3960.1	3119.8	2806.9	2494.1	2416.0	2362.8	2336.4	2310.0	2334.3
5858.5	42.5°	4830.3	3879.9	2929.9	2649.8	2369.8	2297.9	2230.8	2195.8	2160.8	2180.6
6188.5	45°	4882.4	3805.4	2728.6	2483.0	2237.4	2164.4	2099.5	2065.4	2031.4	2048.0
6540.0	47.5°	4918.1	3743.8	2569.6	2351.0	2132.3	2038.3	1982.4	1953.8	1925.2	1941.0
6866.1	50°	4894.8	3676.8	2458.8	2263.3	2067.9	1944.2	1879.3	1853.9	1828.7	1853.2
7077.9	52.5°	4751.1	3563.4	2375.9	2205.6	2035.3	1893.1	1802.4	1777.3	1752.4	1789.3
7031.2	55°	4454.3	3375.6	2296.9	2163.7	2030.5	1898.3	1761.6	1721.9	1682.4	1734.8
6702.7	57.5°	4013.1	3110.7	2208.2	2114.1	2020.0	1903.4	1737.1	1679.3	1621.6	1677.9
6091.5	60°	3421.4	2766.8	2112.2	2038.3	1964.3	1887.3	1714.0	1639.2	1564.3	1613.7
5264.9	62.5°	2754.8	2355.2	1955.6	1906.4	1857.4	1847.9	1687.2	1593.6	1500.1	1531.4
4421.6	65°	2171.4	1984.9	1798.3	1775.2	1752.0	1753.1	1630.6	1531.1	1431.5	1443.6
3595.5	67.5°	1682.0	1629.0	1575.9	1588.9	1601.7	1598.5	1529.7	1446.8	1364.0	1360.2
2831.0	70°	1274.0	1289.2	1304.2	1364.3	1424.2	1424.2	1401.6	1342.7	1283.8	1270.7
2164.3	72.5°	982.7	1028.4	1074.2	1159.4	1244.4	1258.7	1259.0	1218.6	1178.2	1158.9
1570.8	75°	763.1	804.5	845.9	941.3	1036.7	1102.6	1097.1	1066.0	1034.8	1016.4
1064.4	77.5°	587.5	615.6	643.9	736.5	829.2	937.8	934.9	910.0	885.0	866.4
685.8	80°	440.5	452.1	463.8	542.3	620.6	750.4	750.0	729.1	708.1	692.5
421.8	82.5°	314.7	316.8	319.1	376.9	434.6	545.5	551.6	541.4	531.2	520.1
225.5	85°	190.3	189.3	188.1	230.4	272.7	355.1	363.2	352.2	341.3	328.9
93.5	87.5°	83.4	82.4	81.4	98.6	116.0	150.2	160.4	156.1	151.7	149.4
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3655.0	2.5°	3633.0	3611.0	3588.8	3566.8	3549.7	3532.5	3518.7	3504.8	3494.0	3483.2
3533.7	5°	3494.6	3455.5	3420.1	3384.5	3357.2	3329.8	3310.7	3291.6	3278.0	3264.4
3458.9	7.5°	3409.7	3360.4	3316.9	3273.6	3241.1	3208.7	3186.0	3163.2	3147.6	3132.1
3457.0	10°	3404.0	3350.9	3302.1	3253.2	3214.4	3175.5	3150.1	3124.4	3109.7	3095.0
3530.8	12.5°	3489.0	3447.6	3397.0	3346.5	3297.0	3247.4	3214.6	3181.7	3165.3	3148.9
3650.6	15°	3639.9	3629.1	3585.2	3541.3	3470.7	3400.1	3350.2	3300.3	3277.4	3254.7
3751.6	17.5°	3785.4	3819.1	3783.7	3748.4	3654.9	3561.4	3487.9	3414.4	3380.5	3346.5
3768.8	20°	3839.5	3910.3	3893.9	3877.4	3770.5	3663.8	3573.6	3483.6	3440.3	3396.9
3672.2	22.5°	3764.3	3856.3	3866.2	3876.0	3773.9	3671.8	3579.0	3486.1	3440.5	3394.7
3499.0	25°	3589.5	3680.1	3713.9	3747.6	3663.9	3580.3	3497.8	3415.5	3375.9	3336.3
3303.8	27.5°	3376.4	3449.1	3486.7	3524.5	3464.8	3405.3	3341.3	3277.3	3250.7	3224.0
3107.8	30°	3168.0	3228.4	3259.0	3289.7	3244.3	3198.8	3153.0	3106.9	3093.4	3079.6
2909.0	32.5°	2966.8	3024.7	3058.6	3092.8	3051.1	3009.2	2972.6	2936.0	2927.1	2918.2
2715.7	35°	2772.9	2830.2	2871.1	2911.9	2882.2	2852.6	2818.7	2785.0	2771.5	2758.0
2531.2	37.5°	2588.3	2645.4	2695.9	2746.4	2732.7	2719.0	2687.9	2656.7	2632.0	2607.5
2358.7	40°	2413.8	2469.0	2527.0	2585.2	2588.6	2591.8	2565.4	2539.0	2503.1	2467.5
2200.6	42.5°	2252.8	2305.2	2367.9	2430.6	2447.4	2464.2	2441.8	2419.7	2375.2	2330.7
2065.0	45°	2114.5	2164.1	2229.2	2294.2	2318.3	2342.4	2322.2	2302.3	2251.4	2200.6
1956.6	47.5°	2005.2	2053.6	2117.8	2181.9	2209.6	2237.4	2223.4	2209.4	2164.1	2118.9
1877.8	50°	1923.6	1969.3	2026.7	2084.2	2119.8	2155.4	2154.5	2153.9	2117.8	2081.6
1826.1	52.5°	1868.1	1909.9	1963.4	2017.1	2059.3	2101.4	2109.0	2116.6	2087.1	2057.7
1787.0	55°	1832.2	1877.4	1924.4	1971.2	2015.8	2060.6	2071.1	2081.6	2055.9	2030.2
1734.2	57.5°	1787.3	1840.3	1886.7	1933.3	1978.3	2023.2	2033.9	2044.5	2018.6	1992.6
1663.0	60°	1724.0	1784.9	1832.0	1879.3	1924.5	1969.7	1981.4	1993.1	1967.7	1942.4
1562.8	62.5°	1633.8	1705.0	1755.3	1805.6	1847.1	1888.5	1899.7	1910.9	1888.0	1865.1
1455.6	65°	1531.7	1608.0	1656.1	1704.3	1740.7	1777.2	1788.7	1800.1	1778.1	1756.0
1356.4	67.5°	1426.7	1497.2	1542.8	1588.3	1619.8	1651.3	1662.6	1673.6	1653.4	1633.2
1257.5	70°	1319.4	1381.2	1420.6	1460.0	1488.4	1516.8	1527.6	1538.4	1522.0	1505.5
1139.8	72.5°	1188.5	1237.1	1272.7	1308.3	1336.1	1364.0	1376.8	1389.7	1376.0	1362.2
997.9	75°	1034.1	1070.3	1102.5	1134.7	1160.1	1185.5	1198.9	1212.3	1205.6	1198.9
847.7	77.5°	877.1	906.5	934.2	961.9	988.6	1015.1	1027.7	1040.2	1030.9	1021.2
676.7	80°	701.3	725.6	748.9	772.3	792.6	812.7	829.3	845.9	841.9	837.9
509.0	82.5°	507.0	504.9	496.8	488.6	531.8	574.9	603.2	631.5	629.8	627.9
316.5	85°	306.0	295.3	272.7	250.1	290.5	331.1	366.1	401.1	398.2	395.3
147.0	87.5°	146.6	146.1	128.9	111.6	128.5	145.6	159.7	173.9	170.4	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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3473.3	2.5°	3463.2	3450.8	3463.2	3473.3	3483.2	3494.0	3504.8	3518.7	3532.5	3549.7
3254.1	5°	3243.7	3233.5	3243.7	3254.1	3264.4	3278.0	3291.6	3310.7	3329.8	3357.2
3122.8	7.5°	3113.6	3106.6	3113.6	3122.8	3132.1	3147.6	3163.2	3186.0	3208.7	3241.1
3087.1	10°	3079.2	3076.0	3079.2	3087.1	3095.0	3109.7	3124.4	3150.1	3175.5	3214.4
3142.2	12.5°	3135.5	3134.3	3135.5	3142.2	3148.9	3165.3	3181.7	3214.6	3247.4	3297.0
3245.9	15°	3237.2	3236.4	3237.2	3245.9	3254.7	3277.4	3300.3	3350.2	3400.1	3470.7
3335.5	17.5°	3324.2	3322.5	3324.2	3335.5	3346.5	3380.5	3414.4	3487.9	3561.4	3654.9
3383.0	20°	3369.2	3364.8	3369.2	3383.0	3396.9	3440.3	3483.6	3573.6	3663.8	3770.5
3379.4	22.5°	3364.1	3357.5	3364.1	3379.4	3394.7	3440.5	3486.1	3579.0	3671.8	3773.9
3321.9	25°	3307.6	3299.1	3307.6	3321.9	3336.3	3375.9	3415.5	3497.8	3580.3	3663.9
3217.5	27.5°	3210.9	3208.7	3210.9	3217.5	3224.0	3250.7	3277.3	3341.3	3405.3	3464.8
3079.6	30°	3079.6	3081.8	3079.6	3079.6	3079.6	3093.4	3106.9	3153.0	3198.8	3244.3
2919.4	32.5°	2920.7	2922.9	2920.7	2919.4	2918.2	2927.1	2936.0	2972.6	3009.2	3051.1
2755.1	35°	2752.2	2750.7	2752.2	2755.1	2758.0	2771.5	2785.0	2818.7	2852.6	2882.2
2594.5	37.5°	2581.6	2574.3	2581.6	2594.5	2607.5	2632.0	2656.7	2687.9	2719.0	2732.7
2443.3	40°	2419.4	2405.1	2419.4	2443.3	2467.5	2503.1	2539.0	2565.4	2591.8	2588.6
2295.5	42.5°	2260.4	2237.4	2260.4	2295.5	2330.7	2375.2	2419.7	2441.8	2464.2	2447.4
2159.3	45°	2118.0	2091.5	2118.0	2159.3	2200.6	2251.4	2302.3	2322.2	2342.4	2318.3
2080.7	47.5°	2042.6	2017.1	2042.6	2080.7	2118.9	2164.1	2209.4	2223.4	2237.4	2209.6
2046.3	50°	2011.0	1986.5	2011.0	2046.3	2081.6	2117.8	2153.9	2154.5	2155.4	2119.8
2026.0	52.5°	1994.5	1971.9	1994.5	2026.0	2057.7	2087.1	2116.6	2109.0	2101.4	2059.3
2002.5	55°	1974.8	1954.4	1974.8	2002.5	2030.2	2055.9	2081.6	2071.1	2060.6	2015.8
1965.2	57.5°	1937.6	1916.5	1937.6	1965.2	1992.6	2018.6	2044.5	2033.9	2023.2	1978.3
1914.1	60°	1885.9	1864.0	1885.9	1914.1	1942.4	1967.7	1993.1	1981.4	1969.7	1924.5
1835.4	62.5°	1805.6	1779.4	1805.6	1835.4	1865.1	1888.0	1910.9	1899.7	1888.5	1847.1
1727.2	65°	1698.4	1675.8	1698.4	1727.2	1756.0	1778.1	1800.1	1788.7	1777.2	1740.7
1606.4	67.5°	1579.6	1559.1	1579.6	1606.4	1633.2	1653.4	1673.6	1662.6	1651.3	1619.8
1479.8	70°	1454.1	1430.8	1454.1	1479.8	1505.5	1522.0	1538.4	1527.6	1516.8	1488.4
1337.7	72.5°	1313.4	1290.8	1313.4	1337.7	1362.2	1376.0	1389.7	1376.8	1364.0	1336.1
1178.3	75°	1157.8	1136.2	1157.8	1178.3	1198.9	1205.6	1212.3	1198.9	1185.5	1160.1
1000.5	77.5°	979.8	962.6	979.8	1000.5	1021.2	1030.9	1040.2	1027.7	1015.1	988.6
810.1	80°	782.1	749.7	782.1	810.1	837.9	841.9	845.9	829.3	812.7	792.6
604.4	82.5°	580.8	560.1	580.8	604.4	627.9	629.8	631.5	603.2	574.9	531.8
376.9	85°	358.5	339.8	358.5	376.9	395.3	398.2	401.1	366.1	331.1	290.5
157.2	87.5°	147.6	138.6	147.6	157.2	166.6	170.4	173.9	159.7	145.6	128.5
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°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3566.8	2.5°	3588.8	3611.0	3633.0	3655.0	3680.1	3705.3	3733.2	3761.2	3795.8	3826.8
3384.5	5°	3420.1	3455.5	3494.6	3533.7	3577.9	3622.2	3675.2	3728.0	3788.5	3849.7
3273.6	7.5°	3316.9	3360.4	3409.7	3458.9	3517.2	3575.5	3645.7	3716.0	3794.3	3877.9
3253.2	10°	3302.1	3350.9	3404.0	3457.0	3515.3	3573.6	3647.7	3721.8	3806.0	3909.1
3346.5	12.5°	3397.0	3447.6	3489.0	3530.8	3569.3	3608.1	3668.4	3729.1	3807.4	3915.8
3541.3	15°	3585.2	3629.1	3639.9	3650.6	3645.4	3640.1	3669.0	3698.1	3760.8	3880.8
3748.4	17.5°	3783.7	3819.1	3785.4	3751.6	3688.0	3624.4	3613.9	3603.2	3641.9	3783.1
3877.4	20°	3893.9	3910.3	3839.5	3768.8	3658.2	3547.8	3498.2	3448.6	3458.9	3623.2
3876.0	22.5°	3866.2	3856.3	3764.3	3672.2	3545.9	3419.9	3346.5	3273.2	3253.2	3440.3
3747.6	25°	3713.9	3680.1	3589.5	3499.0	3385.5	3272.2	3187.6	3103.0	3049.0	3240.8
3524.5	27.5°	3486.7	3449.1	3376.4	3303.8	3210.8	3117.6	3035.9	2954.2	2888.6	3063.2
3289.7	30°	3259.0	3228.4	3168.0	3107.8	3030.5	2953.2	2888.1	2823.4	2771.9	2918.5
3092.8	32.5°	3058.6	3024.7	2966.8	2909.0	2847.2	2785.5	2747.1	2708.7	2685.8	2804.0
2911.9	35°	2871.1	2830.2	2772.9	2715.7	2668.8	2621.7	2611.0	2600.5	2610.0	2708.5
2746.4	37.5°	2695.9	2645.4	2588.3	2531.2	2497.6	2463.7	2475.4	2487.1	2521.8	2607.8
2585.2	40°	2527.0	2469.0	2413.8	2358.7	2334.3	2310.0	2336.4	2362.8	2416.0	2494.1
2430.6	42.5°	2367.9	2305.2	2252.8	2200.6	2180.6	2160.8	2195.8	2230.8	2297.9	2369.8
2294.2	45°	2229.2	2164.1	2114.5	2065.0	2048.0	2031.4	2065.4	2099.5	2164.4	2237.4
2181.9	47.5°	2117.8	2053.6	2005.2	1956.6	1941.0	1925.2	1953.8	1982.4	2038.3	2132.3
2084.2	50°	2026.7	1969.3	1923.6	1877.8	1853.2	1828.7	1853.9	1879.3	1944.2	2067.9
2017.1	52.5°	1963.4	1909.9	1868.1	1826.1	1789.3	1752.4	1777.3	1802.4	1893.1	2035.3
1971.2	55°	1924.4	1877.4	1832.2	1787.0	1734.8	1682.4	1721.9	1761.6	1898.3	2030.5
1933.3	57.5°	1886.7	1840.3	1787.3	1734.2	1677.9	1621.6	1679.3	1737.1	1903.4	2020.0
1879.3	60°	1832.0	1784.9	1724.0	1663.0	1613.7	1564.3	1639.2	1714.0	1887.3	1964.3
1805.6	62.5°	1755.3	1705.0	1633.8	1562.8	1531.4	1500.1	1593.6	1687.2	1847.9	1857.4
1704.3	65°	1656.1	1608.0	1531.7	1455.6	1443.6	1431.5	1531.1	1630.6	1753.1	1752.0
1588.3	67.5°	1542.8	1497.2	1426.7	1356.4	1360.2	1364.0	1446.8	1529.7	1598.5	1601.7
1460.0	70°	1420.6	1381.2	1319.4	1257.5	1270.7	1283.8	1342.7	1401.6	1424.2	1424.2
1308.3	72.5°	1272.7	1237.1	1188.5	1139.8	1158.9	1178.2	1218.6	1259.0	1258.7	1244.4
1134.7	75°	1102.5	1070.3	1034.1	997.9	1016.4	1034.8	1066.0	1097.1	1102.6	1036.7
961.9	77.5°	934.2	906.5	877.1	847.7	866.4	885.0	910.0	934.9	937.8	829.2
772.3	80°	748.9	725.6	701.3	676.7	692.5	708.1	729.1	750.0	750.4	620.6
488.6	82.5°	496.8	504.9	507.0	509.0	520.1	531.2	541.4	551.6	545.5	434.6
250.1	85°	272.7	295.3	306.0	316.5	328.9	341.3	352.2	363.2	355.1	272.7
111.6	87.5°	128.9	146.1	146.6	147.0	149.4	151.7	156.1	160.4	150.2	116.0
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):

325°		330°	335°	340°	345°	350°	355°	360°
3800.9	0°	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9	3800.9
3858.9	2.5°	3891.0	3924.6	3958.1	3991.4	4024.8	4056.1	4087.5
3914.6	5°	3979.5	4049.0	4118.5	4187.5	4256.7	4325.9	4395.2
3968.5	7.5°	4059.0	4161.9	4264.7	4370.3	4475.9	4590.1	4704.4
4016.4	10°	4123.5	4248.5	4373.3	4512.8	4652.4	4796.9	4941.4
4037.0	12.5°	4158.2	4305.5	4452.8	4610.9	4769.0	4927.7	5086.6
4021.1	15°	4161.4	4331.0	4500.7	4672.2	4843.7	5009.3	5174.8
3951.8	17.5°	4120.6	4317.5	4514.4	4701.5	4888.6	5056.5	5224.4
3832.4	20°	4041.5	4280.1	4518.8	4724.4	4930.1	5104.6	5279.1
3692.2	22.5°	3944.1	4234.3	4524.6	4755.3	4985.9	5164.3	5342.5
3535.7	25°	3830.8	4189.1	4547.6	4811.3	5074.9	5249.5	5424.2
3392.6	27.5°	3722.1	4158.9	4595.8	4898.8	5201.8	5368.5	5535.0
3273.0	30°	3627.6	4144.8	4661.7	5012.2	5362.6	5523.5	5684.5
3169.9	32.5°	3535.7	4127.3	4718.6	5130.5	5542.3	5701.6	5861.0
3068.6	35°	3428.7	4094.3	4760.3	5265.2	5770.2	5922.9	6075.4
2949.3	37.5°	3290.7	4037.9	4785.1	5416.2	6047.3	6241.8	6436.4
2806.9	40°	3119.8	3960.1	4800.7	5607.8	6414.8	6698.4	6981.9
2649.8	42.5°	2929.9	3879.9	4830.3	5858.5	6886.8	7296.0	7705.3
2483.0	45°	2728.6	3805.4	4882.4	6188.5	7494.6	8046.6	8598.6
2351.0	47.5°	2569.6	3743.8	4918.1	6540.0	8161.8	8938.9	9715.9
2263.3	50°	2458.8	3676.8	4894.8	6866.1	8837.4	10008.9	11180.2
2205.6	52.5°	2375.9	3563.4	4751.1	7077.9	9404.5	11132.8	12861.1
2163.7	55°	2296.9	3375.6	4454.3	7031.2	9607.9	12129.3	14650.7
2114.1	57.5°	2208.2	3110.7	4013.1	6702.7	9392.5	12835.5	16278.4
2038.3	60°	2112.2	2766.8	3421.4	6091.5	8761.6	13011.9	17262.2
1906.4	62.5°	1955.6	2355.2	2754.8	5264.9	7775.0	12268.8	16762.6
1775.2	65°	1798.3	1984.9	2171.4	4421.6	6672.0	11217.4	15762.8
1588.9	67.5°	1575.9	1629.0	1682.0	3595.5	5509.1	9966.1	14423.2
1364.3	70°	1304.2	1289.2	1274.0	2831.0	4387.9	8600.8	12813.7
1159.4	72.5°	1074.2	1028.4	982.7	2164.3	3345.8	7120.7	10895.8
941.3	75°	845.9	804.5	763.1	1570.8	2378.5	5424.1	8469.6
736.5	77.5°	643.9	615.6	587.5	1064.4	1541.4	3796.4	6051.4
542.3	80°	463.8	452.1	440.5	685.8	931.3	2445.9	3960.6
376.9	82.5°	319.1	316.8	314.7	421.8	529.1	1415.6	2302.3
230.4	85°	188.1	189.3	190.3	225.5	260.8	636.8	1012.9
98.6	87.5°	81.4	82.4	83.4	93.5	103.6	208.6	313.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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