

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: P955004

Luminaire Tested: **GALN-SB8A-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955004
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-SB8A-830-U-SLL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32476 lumens
Efficiency: N/A
Efficacy: 143.0 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

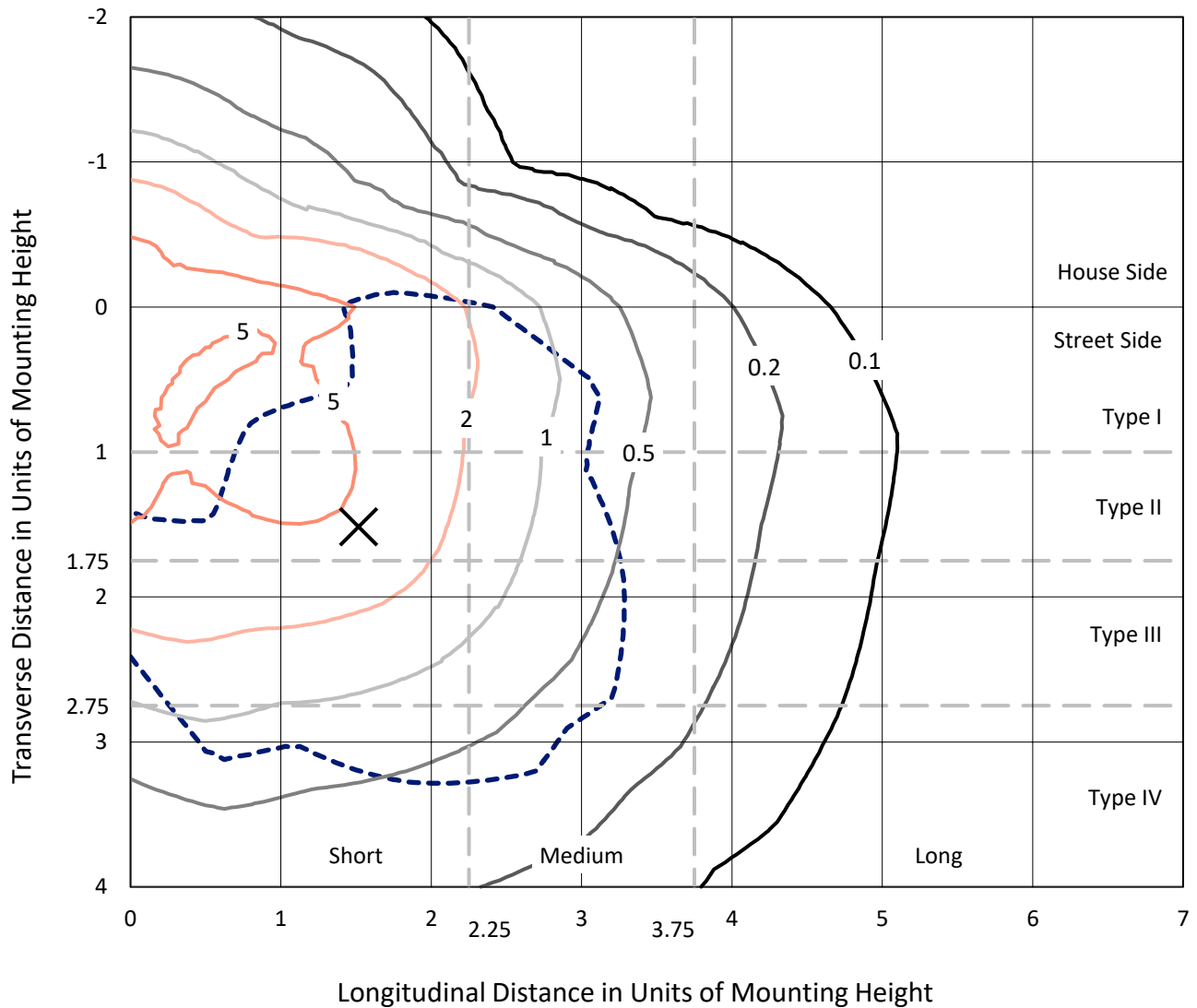
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

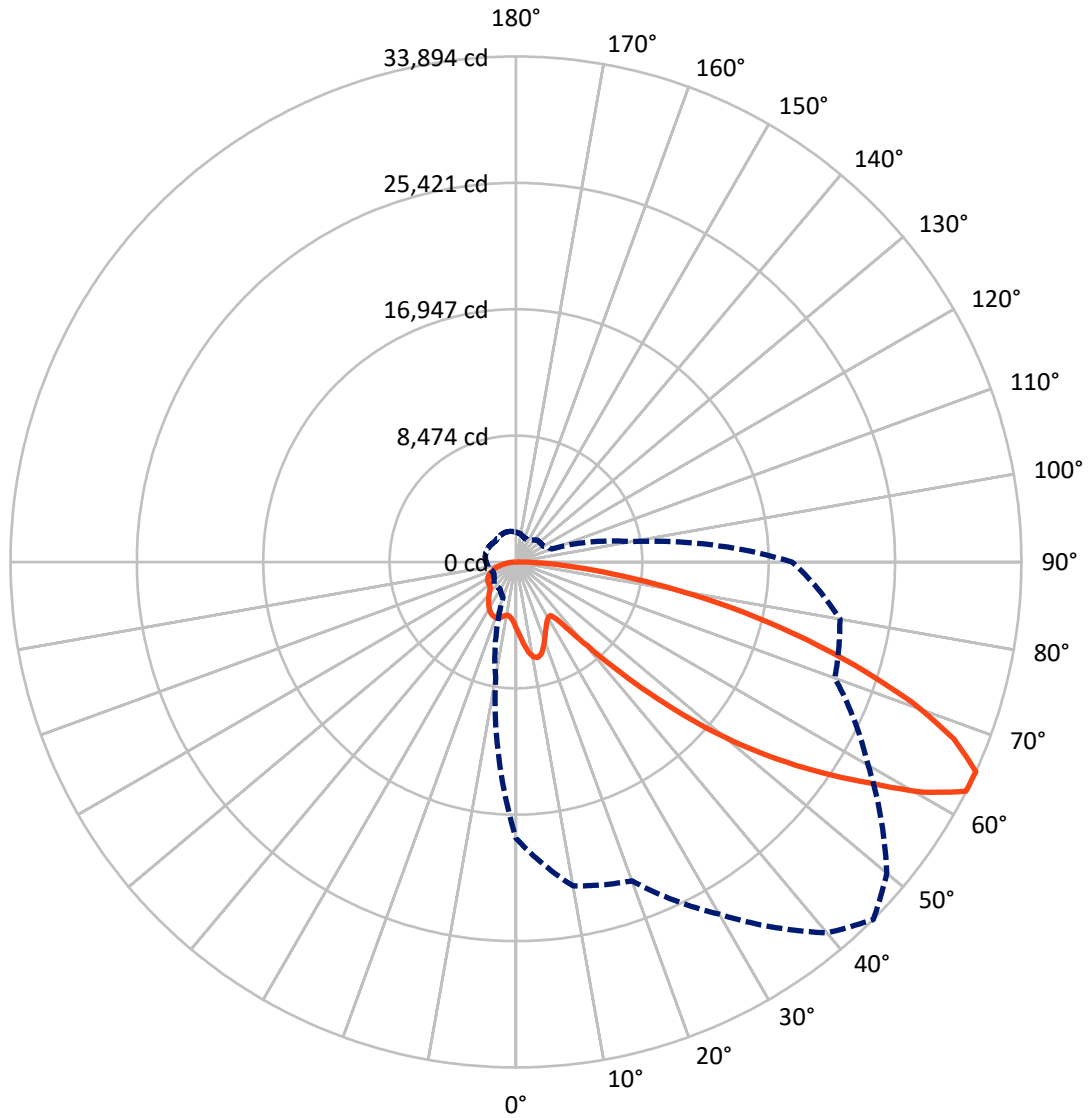
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	8253.8	0.0	8253.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	24222.2	0.0	24222.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	32476.0	0.0	32476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.0	1.4
10°-20°	1390.7	4.3
20°-30°	2148.1	6.6
30°-40°	2722.2	8.4
40°-50°	4105.7	12.6
50°-60°	6633.4	20.4
60°-70°	8269.6	25.5
70°-80°	5422.8	16.7
80°-90°	1340.6	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°	32476.0	100.0
0°-180°	32476.0	100.0

Coefficient of Utilization



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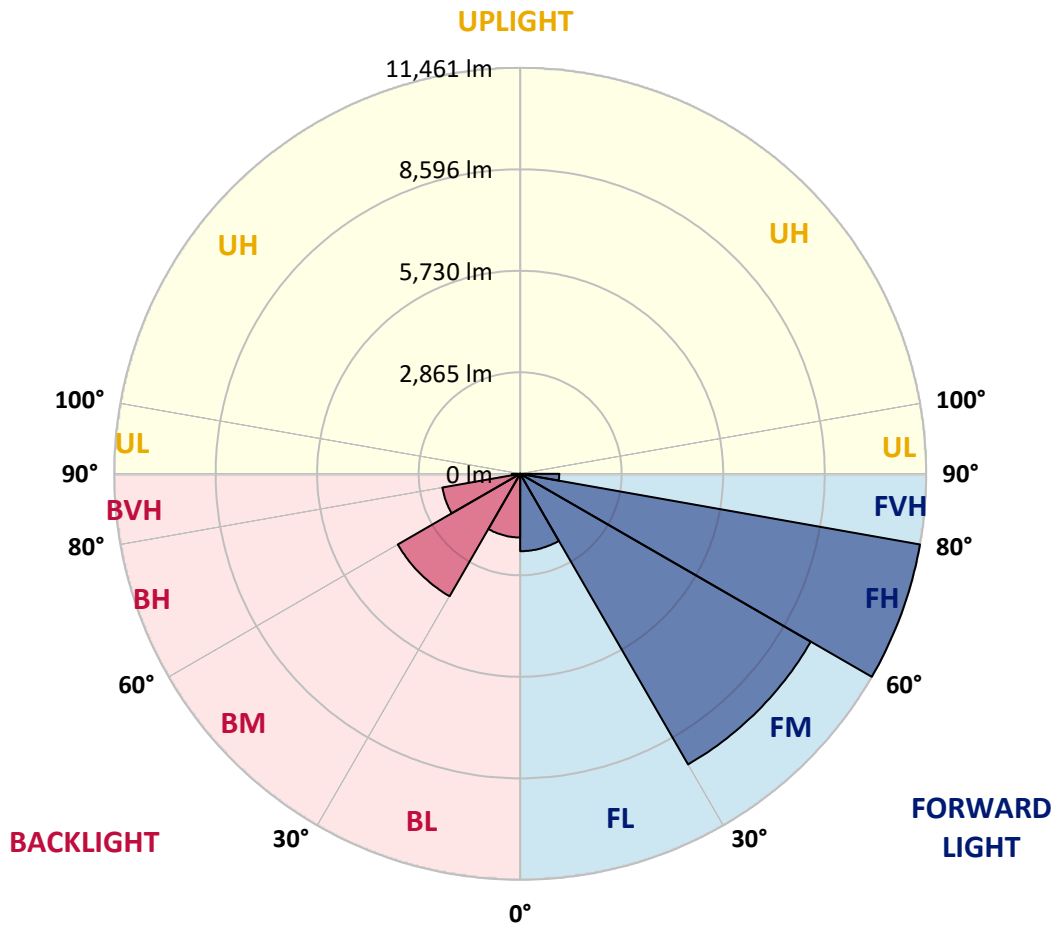
CATALOG NUMBER: GALN-SB8A-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2184.4	6.7			
FM (30°-60°)	9472.5	29.2			
FH (60°-80°)	11460.9	35.3			G4/12000
FVH (80°-90°)	1104.4	3.4			G5
BL (0°-30°)	1797.4	5.5	B3/2500		
BM (30°-60°)	3988.7	12.3	B3/5000		
BH (60°-80°)	2231.4	6.9	B3/2500		G3/2500
BVH (80°-90°)	236.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
2.5°	4802.5	4820.6	4839.0	4864.8	4890.7	4906.1	4921.6	4929.3	4937.0	4933.6
5°	5164.0	5227.6	5291.4	5354.4	5417.7	5451.9	5486.2	5506.9	5527.8	5543.6
7.5°	5527.3	5630.8	5734.2	5827.2	5920.3	5976.3	6032.3	6062.7	6092.8	6107.4
10°	5805.8	5928.1	6050.5	6159.7	6268.8	6335.0	6400.8	6430.2	6459.5	6470.7
12.5°	5976.3	6108.9	6241.4	6340.1	6438.5	6486.4	6534.4	6550.5	6566.6	6568.4
15°	6080.0	6194.4	6308.7	6370.6	6432.6	6434.4	6436.1	6418.9	6401.8	6381.6
17.5°	6138.2	6215.5	6292.8	6294.0	6295.0	6225.6	6156.2	6092.7	6028.9	5984.0
20°	6202.5	6229.4	6256.5	6175.1	6093.7	5940.5	5787.3	5675.7	5564.2	5495.6
22.5°	6277.0	6241.7	6206.4	6037.8	5869.2	5643.9	5418.5	5279.0	5139.5	5063.8
25°	6373.0	6261.6	6150.2	5894.2	5638.2	5364.5	5090.9	4944.2	4797.8	4726.2
27.5°	6503.2	6304.1	6104.8	5765.7	5426.7	5123.4	4820.1	4675.8	4531.7	4464.0
30°	6678.9	6381.9	6085.1	5667.7	5250.2	4934.2	4618.2	4484.4	4350.6	4287.5
32.5°	6886.2	6479.6	6073.1	5600.8	5128.6	4831.6	4534.6	4429.6	4324.4	4278.9
35°	7138.1	6640.5	6143.0	5650.9	5158.9	4952.6	4746.4	4721.9	4697.4	4693.6
37.5°	7562.3	6976.9	6391.5	5944.3	5497.0	5483.6	5470.3	5582.3	5694.4	5752.7
40°	8203.2	7566.6	6929.9	6597.3	6264.7	6499.5	6734.2	7006.7	7279.2	7414.9
42.5°	9053.1	8421.5	7789.8	7598.3	7406.7	7918.7	8430.7	8926.3	9421.9	9712.9
45°	10102.7	9535.3	8967.8	8883.3	8798.7	9619.0	10439.5	11253.8	12068.3	12562.6
47.5°	11415.4	10863.4	10311.3	10294.1	10277.0	11460.4	12643.5	13835.7	15027.7	15727.7
50°	13135.9	12454.0	11772.3	11775.2	11778.1	13303.3	14828.4	16402.0	17975.7	18927.1
52.5°	15110.8	14285.2	13459.7	13376.3	13292.7	15114.4	16936.2	18883.2	20830.1	21970.5
55°	17213.5	16397.8	15582.1	15256.7	14931.2	16958.8	18986.2	21307.3	23628.4	24984.8
57.5°	19125.9	18681.7	18237.3	17584.6	16932.1	18979.4	21026.6	23655.7	26284.6	27966.5
60°	20281.7	20971.6	21661.7	20851.2	20040.6	21978.0	23915.5	26730.3	29545.1	31362.9
62.5°	19694.8	21580.0	23465.1	23373.8	23282.3	25057.1	26832.1	29510.1	32188.0	33868.3
65°	18520.1	20289.4	22058.8	22408.8	22758.8	25014.3	27269.9	29866.8	32463.4	33894.0
67.5°	16946.1	18628.9	20311.7	20475.9	20639.9	22989.9	25339.8	27947.8	30555.8	31676.5
70°	15055.1	16885.5	18716.0	18789.3	18862.8	20964.4	23065.9	25310.2	27554.4	28177.3
72.5°	12801.7	14902.1	17002.7	17055.5	17108.1	18752.3	20396.5	22077.4	23758.2	23821.2
75°	9951.1	12125.0	14298.9	14494.1	14689.3	15968.5	17247.7	18431.0	19614.3	19297.2
77.5°	7109.9	9139.2	11168.6	11447.9	11727.3	12699.7	13672.2	14511.4	15350.7	14805.8
80°	4653.4	6360.7	8067.8	8415.0	8762.2	9496.6	10230.7	10671.5	11112.1	10235.5
82.5°	2705.0	3872.1	5039.5	5427.2	5815.2	6320.7	6826.3	7010.1	7193.8	6505.0
85°	1190.1	1809.6	2429.1	2759.0	3088.8	3504.2	3919.4	4023.8	4128.1	3576.4
87.5°	368.4	576.6	784.8	968.9	1152.9	1360.6	1568.3	1577.2	1586.0	1331.5
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°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4937.0	2.5°	4929.3	4921.6	4906.1	4890.7	4864.8	4839.0	4820.6	4802.5	4765.6	4728.8
5527.8	5°	5506.9	5486.2	5451.9	5417.7	5354.4	5291.4	5227.6	5164.0	5082.6	5001.2
6092.8	7.5°	6062.7	6032.3	5976.3	5920.3	5827.2	5734.2	5630.8	5527.3	5393.0	5258.8
6459.5	10°	6430.2	6400.8	6335.0	6268.8	6159.7	6050.5	5928.1	5805.8	5636.0	5466.1
6566.6	12.5°	6550.5	6534.4	6486.4	6438.5	6340.1	6241.4	6108.9	5976.3	5789.7	5603.2
6401.8	15°	6418.9	6436.1	6434.4	6432.6	6370.6	6308.7	6194.4	6080.0	5885.5	5691.0
6028.9	17.5°	6092.7	6156.2	6225.6	6295.0	6294.0	6292.8	6215.5	6138.2	5941.0	5743.8
5564.2	20°	5675.7	5787.3	5940.5	6093.7	6175.1	6256.5	6229.4	6202.5	5997.5	5792.4
5139.5	22.5°	5279.0	5418.5	5643.9	5869.2	6037.8	6206.4	6241.7	6277.0	6067.6	5858.1
4797.8	25°	4944.2	5090.9	5364.5	5638.2	5894.2	6150.2	6261.6	6373.0	6167.7	5962.6
4531.7	27.5°	4675.8	4820.1	5123.4	5426.7	5765.7	6104.8	6304.1	6503.2	6307.5	6111.7
4350.6	30°	4484.4	4618.2	4934.2	5250.2	5667.7	6085.1	6381.9	6678.9	6489.7	6300.7
4324.4	32.5°	4429.6	4534.6	4831.6	5128.6	5600.8	6073.1	6479.6	6886.2	6698.9	6511.8
4697.4	35°	4721.9	4746.4	4952.6	5158.9	5650.9	6143.0	6640.5	7138.1	6958.9	6779.5
5694.4	37.5°	5582.3	5470.3	5483.6	5497.0	5944.3	6391.5	6976.9	7562.3	7333.7	7105.1
7279.2	40°	7006.7	6734.2	6499.5	6264.7	6597.3	6929.9	7566.6	8203.2	7870.0	7536.9
9421.9	42.5°	8926.3	8430.7	7918.7	7406.7	7598.3	7789.8	8421.5	9053.1	8572.3	8091.4
12068.3	45°	11253.8	10439.5	9619.0	8798.7	8883.3	8967.8	9535.3	10102.7	9454.1	8805.5
15027.7	47.5°	13835.7	12643.5	11460.4	10277.0	10294.1	10311.3	10863.4	11415.4	10502.5	9589.5
17975.7	50°	16402.0	14828.4	13303.3	11778.1	11775.2	11772.3	12454.0	13135.9	11759.6	10383.2
20830.1	52.5°	18883.2	16936.2	15114.4	13292.7	13376.3	13459.7	14285.2	15110.8	13080.2	11049.5
23628.4	55°	21307.3	18986.2	16958.8	14931.2	15256.7	15582.1	16397.8	17213.5	14250.9	11288.6
26284.6	57.5°	23655.7	21026.6	18979.4	16932.1	17584.6	18237.3	18681.7	19125.9	15080.7	11035.5
29545.1	60°	26730.3	23915.5	21978.0	20040.6	20851.2	21661.7	20971.6	20281.7	15288.0	10294.1
32188.0	62.5°	29510.1	26832.1	25057.1	23282.3	23373.8	23465.1	21580.0	19694.8	14414.9	9135.0
32463.4	65°	29866.8	27269.9	25014.3	22758.8	22408.8	22058.8	20289.4	18520.1	13179.6	7839.0
30555.8	67.5°	27947.8	25339.8	22989.9	20639.9	20475.9	20311.7	18628.9	16946.1	11709.4	6472.7
27554.4	70°	25310.2	23065.9	20964.4	18862.8	18789.3	18716.0	16885.5	15055.1	10105.3	5155.5
23758.2	72.5°	22077.4	20396.5	18752.3	17108.1	17055.5	17002.7	14902.1	12801.7	8366.3	3931.1
19614.3	75°	18431.0	17247.7	15968.5	14689.3	14494.1	14298.9	12125.0	9951.1	6372.8	2794.6
15350.7	77.5°	14511.4	13672.2	12699.7	11727.3	11447.9	11168.6	9139.2	7109.9	4460.4	1811.0
11112.1	80°	10671.5	10230.7	9496.6	8762.2	8415.0	8067.8	6360.7	4653.4	2873.8	1094.2
7193.8	82.5°	7010.1	6826.3	6320.7	5815.2	5427.2	5039.5	3872.1	2705.0	1663.3	621.7
4128.1	85°	4023.8	3919.4	3504.2	3088.8	2759.0	2429.1	1809.6	1190.1	748.2	306.4
1586.0	87.5°	1577.2	1568.3	1360.6	1152.9	968.9	784.8	576.6	368.4	245.0	121.7
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°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4689.5	2.5°	4650.5	4611.0	4571.6	4533.9	4496.2	4459.7	4419.1	4386.2	4353.5	4323.8
4920.0	5°	4839.0	4757.2	4675.6	4599.4	4523.1	4451.2	4380.0	4318.0	4255.8	4203.7
5134.7	7.5°	5010.7	4889.9	4769.0	4662.6	4556.2	4458.0	4366.0	4283.4	4201.0	4132.4
5302.2	10°	5138.3	4991.6	4844.8	4719.0	4592.9	4471.7	4372.9	4285.8	4198.7	4130.2
5417.5	12.5°	5231.7	5058.6	4885.6	4743.2	4600.8	4473.4	4381.4	4310.1	4239.2	4193.6
5489.5	15°	5287.9	5088.6	4889.3	4724.5	4559.6	4418.6	4344.9	4310.8	4276.9	4283.1
5523.9	17.5°	5304.0	5072.7	4841.4	4643.1	4444.8	4278.9	4233.5	4246.0	4258.4	4333.1
5550.8	20°	5309.2	5028.8	4748.5	4502.7	4257.0	4063.9	4051.9	4110.2	4168.4	4298.1
5587.1	22.5°	5316.0	4975.0	4634.0	4338.1	4042.1	3822.3	3845.7	3931.9	4018.1	4166.2
5652.9	25°	5343.1	4921.9	4500.9	4154.2	3807.7	3582.4	3645.8	3745.1	3844.5	3977.7
5755.8	27.5°	5399.7	4886.4	4373.2	3986.1	3599.0	3393.9	3471.0	3566.9	3662.9	3772.4
5888.9	30°	5477.1	4869.8	4262.1	3845.6	3429.0	3256.8	3317.3	3393.3	3469.8	3560.6
6027.9	32.5°	5543.9	4849.2	4154.2	3724.4	3294.5	3155.7	3182.6	3227.6	3272.7	3345.2
6186.2	35°	5593.0	4810.5	4028.4	3605.3	3182.2	3066.5	3055.4	3067.7	3080.3	3135.6
6363.6	37.5°	5622.1	4744.2	3866.3	3465.1	3064.0	2962.9	2922.1	2908.4	2894.7	2934.4
6588.8	40°	5640.4	4652.9	3665.5	3297.9	2930.3	2838.6	2776.1	2745.1	2714.1	2742.7
6883.3	42.5°	5675.2	4558.6	3442.3	3113.3	2784.3	2699.8	2621.0	2579.9	2538.7	2562.1
7270.9	45°	5736.4	4471.0	3205.9	2917.3	2628.7	2543.0	2466.8	2426.7	2386.7	2406.3
7683.9	47.5°	5778.4	4398.7	3019.1	2762.2	2505.3	2394.8	2329.2	2295.6	2262.0	2280.5
8067.1	50°	5751.0	4319.9	2888.8	2659.2	2429.6	2284.3	2208.0	2178.2	2148.6	2177.3
8315.9	52.5°	5582.2	4186.8	2791.5	2591.4	2391.4	2224.3	2117.7	2088.2	2058.9	2102.3
8261.1	55°	5233.4	3966.0	2698.6	2542.2	2385.7	2230.3	2069.7	2023.1	1976.7	2038.2
7875.2	57.5°	4715.1	3654.8	2594.4	2483.9	2373.4	2236.3	2040.9	1973.1	1905.2	1971.4
7157.0	60°	4019.8	3250.8	2481.7	2394.8	2307.9	2217.4	2013.9	1926.0	1837.9	1896.0
6185.9	62.5°	3236.7	2767.2	2297.6	2239.9	2182.3	2171.2	1982.3	1872.3	1762.5	1799.3
5195.1	65°	2551.3	2332.1	2112.9	2085.7	2058.4	2059.8	1915.8	1799.0	1681.9	1696.2
4224.5	67.5°	1976.2	1914.0	1851.6	1866.8	1881.9	1878.1	1797.3	1699.9	1602.6	1598.1
3326.2	70°	1496.9	1514.7	1532.3	1602.9	1673.4	1673.4	1646.8	1577.6	1508.3	1492.9
2542.9	72.5°	1154.6	1208.3	1262.1	1362.2	1462.1	1478.9	1479.2	1431.7	1384.3	1361.7
1845.6	75°	896.6	945.2	993.9	1106.0	1218.1	1295.5	1289.0	1252.5	1215.8	1194.2
1250.6	77.5°	690.3	723.3	756.6	865.4	974.2	1101.9	1098.4	1069.1	1039.8	1017.9
805.8	80°	517.5	531.2	544.9	637.1	729.2	881.7	881.2	856.6	832.0	813.6
495.6	82.5°	369.8	372.2	374.9	442.8	510.7	640.9	648.1	636.1	624.1	611.1
264.9	85°	223.6	222.4	221.1	270.8	320.4	417.3	426.7	413.8	401.0	386.4
109.8	87.5°	98.0	96.8	95.6	115.8	136.2	176.5	188.5	183.4	178.2	175.5
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4294.4	2.5°	4268.5	4242.6	4216.6	4190.7	4170.6	4150.4	4134.1	4117.9	4105.2	4092.5
4151.8	5°	4105.9	4059.9	4018.3	3976.5	3944.4	3912.2	3889.8	3867.3	3851.4	3835.5
4063.9	7.5°	4006.1	3948.2	3897.1	3846.3	3808.0	3770.0	3743.3	3716.5	3698.2	3680.0
4061.7	10°	3999.4	3937.1	3879.7	3822.3	3776.7	3730.9	3701.1	3670.9	3653.6	3636.3
4148.4	12.5°	4099.4	4050.7	3991.2	3931.9	3873.7	3815.4	3776.8	3738.3	3718.9	3699.7
4289.2	15°	4276.5	4263.9	4212.3	4160.7	4077.8	3994.8	3936.2	3877.6	3850.7	3824.0
4407.8	17.5°	4447.6	4487.2	4445.5	4404.0	4294.2	4184.4	4098.0	4011.6	3971.9	3931.9
4428.0	20°	4511.1	4594.3	4575.1	4555.7	4430.1	4304.6	4198.7	4093.0	4042.1	3991.1
4314.6	22.5°	4422.7	4530.8	4542.5	4554.0	4434.0	4314.1	4205.1	4095.9	4042.3	3988.5
4111.0	25°	4217.4	4323.8	4363.6	4403.2	4304.8	4206.6	4109.6	4013.0	3966.4	3919.9
3881.7	27.5°	3967.1	4052.4	4096.6	4141.0	4070.9	4001.0	3925.8	3850.5	3819.3	3788.0
3651.4	30°	3722.2	3793.1	3829.1	3865.1	3811.8	3758.3	3704.5	3650.4	3634.4	3618.3
3417.8	32.5°	3485.7	3553.7	3593.7	3633.8	3584.8	3535.6	3492.6	3449.5	3439.1	3428.6
3190.8	35°	3258.0	3325.3	3373.3	3421.3	3386.3	3351.5	3311.8	3272.2	3256.2	3240.5
2974.0	37.5°	3041.0	3108.2	3167.5	3226.8	3210.7	3194.6	3158.1	3121.4	3092.4	3063.6
2771.3	40°	2836.1	2900.8	2969.0	3037.4	3041.4	3045.1	3014.1	2983.1	2940.9	2899.1
2585.5	42.5°	2646.9	2708.4	2782.1	2855.8	2875.5	2895.2	2869.0	2842.9	2790.7	2738.4
2426.2	45°	2484.4	2542.7	2619.1	2695.5	2723.8	2752.1	2728.4	2705.0	2645.2	2585.5
2298.8	47.5°	2355.9	2412.8	2488.2	2563.6	2596.2	2628.7	2612.3	2595.8	2542.7	2489.6
2206.3	50°	2260.1	2313.7	2381.3	2448.8	2490.6	2532.4	2531.4	2530.7	2488.2	2445.7
2145.5	52.5°	2194.8	2244.0	2306.9	2370.0	2419.5	2469.0	2477.9	2486.8	2452.2	2417.6
2099.5	55°	2152.7	2205.8	2261.0	2316.0	2368.4	2421.0	2433.4	2445.7	2415.5	2385.4
2037.5	57.5°	2099.9	2162.3	2216.8	2271.4	2324.4	2377.2	2389.7	2402.2	2371.7	2341.2
1953.9	60°	2025.5	2097.1	2152.5	2208.0	2261.1	2314.3	2328.0	2341.7	2311.9	2282.2
1836.2	62.5°	1919.6	2003.2	2062.4	2121.5	2170.1	2218.8	2232.0	2245.2	2218.3	2191.4
1710.2	65°	1799.7	1889.3	1945.8	2002.4	2045.2	2088.1	2101.6	2115.0	2089.1	2063.2
1593.7	67.5°	1676.3	1759.0	1812.7	1866.1	1903.2	1940.2	1953.4	1966.4	1942.6	1918.9
1477.5	70°	1550.2	1622.8	1669.1	1715.3	1748.8	1782.2	1794.9	1807.5	1788.2	1768.8
1339.2	72.5°	1396.4	1453.5	1495.3	1537.1	1569.9	1602.6	1617.7	1632.8	1616.6	1600.5
1172.5	75°	1215.0	1257.5	1295.3	1333.2	1363.0	1392.8	1408.6	1424.4	1416.5	1408.6
996.0	77.5°	1030.6	1065.0	1097.6	1130.1	1161.5	1192.7	1207.4	1222.2	1211.2	1199.9
795.1	80°	823.9	852.5	880.0	907.4	931.2	954.8	974.4	993.9	989.1	984.5
598.1	82.5°	595.7	593.3	583.7	574.1	624.8	675.5	708.8	742.0	739.9	737.7
371.9	85°	359.5	347.0	320.4	293.9	341.4	389.0	430.1	471.2	467.8	464.4
172.7	87.5°	172.2	171.7	151.5	131.1	151.0	171.0	187.6	204.3	200.2	195.7
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4080.8	2.5°	4069.0	4054.5	4069.0	4080.8	4092.5	4105.2	4117.9	4134.1	4150.4	4170.6
3823.3	5°	3811.1	3799.1	3811.1	3823.3	3835.5	3851.4	3867.3	3889.8	3912.2	3944.4
3669.1	7.5°	3658.3	3650.0	3658.3	3669.1	3680.0	3698.2	3716.5	3743.3	3770.0	3808.0
3627.1	10°	3617.8	3614.1	3617.8	3627.1	3636.3	3653.6	3670.9	3701.1	3730.9	3776.7
3691.9	12.5°	3684.0	3682.6	3684.0	3691.9	3699.7	3718.9	3738.3	3776.8	3815.4	3873.7
3813.7	15°	3803.4	3802.6	3803.4	3813.7	3824.0	3850.7	3877.6	3936.2	3994.8	4077.8
3918.9	17.5°	3905.7	3903.7	3905.7	3918.9	3931.9	3971.9	4011.6	4098.0	4184.4	4294.2
3974.8	20°	3958.5	3953.4	3958.5	3974.8	3991.1	4042.1	4093.0	4198.7	4304.6	4430.1
3970.5	22.5°	3952.5	3944.8	3952.5	3970.5	3988.5	4042.3	4095.9	4205.1	4314.1	4434.0
3903.0	25°	3886.2	3876.2	3886.2	3903.0	3919.9	3966.4	4013.0	4109.6	4206.6	4304.8
3780.3	27.5°	3772.6	3770.0	3772.6	3780.3	3788.0	3819.3	3850.5	3925.8	4001.0	4070.9
3618.3	30°	3618.3	3620.9	3618.3	3618.3	3618.3	3634.4	3650.4	3704.5	3758.3	3811.8
3430.0	32.5°	3431.6	3434.1	3431.6	3430.0	3428.6	3439.1	3449.5	3492.6	3535.6	3584.8
3237.1	35°	3233.6	3231.9	3233.6	3237.1	3240.5	3256.2	3272.2	3311.8	3351.5	3386.3
3048.4	37.5°	3033.1	3024.6	3033.1	3048.4	3063.6	3092.4	3121.4	3158.1	3194.6	3210.7
2870.7	40°	2842.6	2825.8	2842.6	2870.7	2899.1	2940.9	2983.1	3014.1	3045.1	3041.4
2697.1	42.5°	2655.8	2628.7	2655.8	2697.1	2738.4	2790.7	2842.9	2869.0	2895.2	2875.5
2537.0	45°	2488.5	2457.4	2488.5	2537.0	2585.5	2645.2	2705.0	2728.4	2752.1	2723.8
2444.7	47.5°	2399.9	2370.0	2399.9	2444.7	2489.6	2542.7	2595.8	2612.3	2628.7	2596.2
2404.2	50°	2362.8	2334.0	2362.8	2404.2	2445.7	2488.2	2530.7	2531.4	2532.4	2490.6
2380.4	52.5°	2343.4	2316.8	2343.4	2380.4	2417.6	2452.2	2486.8	2477.9	2469.0	2419.5
2352.8	55°	2320.3	2296.3	2320.3	2352.8	2385.4	2415.5	2445.7	2433.4	2421.0	2368.4
2309.0	57.5°	2276.6	2251.7	2276.6	2309.0	2341.2	2371.7	2402.2	2389.7	2377.2	2324.4
2249.0	60°	2215.7	2190.0	2215.7	2249.0	2282.2	2311.9	2341.7	2328.0	2314.3	2261.1
2156.4	62.5°	2121.5	2090.6	2121.5	2156.4	2191.4	2218.3	2245.2	2232.0	2218.8	2170.1
2029.3	65°	1995.5	1969.0	1995.5	2029.3	2063.2	2089.1	2115.0	2101.6	2088.1	2045.2
1887.4	67.5°	1855.9	1831.9	1855.9	1887.4	1918.9	1942.6	1966.4	1953.4	1940.2	1903.2
1738.7	70°	1708.5	1681.1	1708.5	1738.7	1768.8	1788.2	1807.5	1794.9	1782.2	1748.8
1571.7	72.5°	1543.1	1516.6	1543.1	1571.7	1600.5	1616.6	1632.8	1617.7	1602.6	1569.9
1384.4	75°	1360.3	1334.9	1360.3	1384.4	1408.6	1416.5	1424.4	1408.6	1392.8	1363.0
1175.6	77.5°	1151.2	1131.0	1151.2	1175.6	1199.9	1211.2	1222.2	1207.4	1192.7	1161.5
951.8	80°	918.9	880.8	918.9	951.8	984.5	989.1	993.9	974.4	954.8	931.2
710.1	82.5°	682.4	658.0	682.4	710.1	737.7	739.9	742.0	708.8	675.5	624.8
442.8	85°	421.2	399.3	421.2	442.8	464.4	467.8	471.2	430.1	389.0	341.4
184.7	87.5°	173.4	162.8	173.4	184.7	195.7	200.2	204.3	187.6	171.0	151.0
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4190.7	2.5°	4216.6	4242.6	4268.5	4294.4	4323.8	4353.5	4386.2	4419.1	4459.7	4496.2
3976.5	5°	4018.3	4059.9	4105.9	4151.8	4203.7	4255.8	4318.0	4380.0	4451.2	4523.1
3846.3	7.5°	3897.1	3948.2	4006.1	4063.9	4132.4	4201.0	4283.4	4366.0	4458.0	4556.2
3822.3	10°	3879.7	3937.1	3999.4	4061.7	4130.2	4198.7	4285.8	4372.9	4471.7	4592.9
3931.9	12.5°	3991.2	4050.7	4099.4	4148.4	4193.6	4239.2	4310.1	4381.4	4473.4	4600.8
4160.7	15°	4212.3	4263.9	4276.5	4289.2	4283.1	4276.9	4310.8	4344.9	4418.6	4559.6
4404.0	17.5°	4445.5	4487.2	4447.6	4407.8	4333.1	4258.4	4246.0	4233.5	4278.9	4444.8
4555.7	20°	4575.1	4594.3	4511.1	4428.0	4298.1	4168.4	4110.2	4051.9	4063.9	4257.0
4554.0	22.5°	4542.5	4530.8	4422.7	4314.6	4166.2	4018.1	3931.9	3845.7	3822.3	4042.1
4403.2	25°	4363.6	4323.8	4217.4	4111.0	3977.7	3844.5	3745.1	3645.8	3582.4	3807.7
4141.0	27.5°	4096.6	4052.4	3967.1	3881.7	3772.4	3662.9	3566.9	3471.0	3393.9	3599.0
3865.1	30°	3829.1	3793.1	3722.2	3651.4	3560.6	3469.8	3393.3	3317.3	3256.8	3429.0
3633.8	32.5°	3593.7	3553.7	3485.7	3417.8	3345.2	3272.7	3227.6	3182.6	3155.7	3294.5
3421.3	35°	3373.3	3325.3	3258.0	3190.8	3135.6	3080.3	3067.7	3055.4	3066.5	3182.2
3226.8	37.5°	3167.5	3108.2	3041.0	2974.0	2934.4	2894.7	2908.4	2922.1	2962.9	3064.0
3037.4	40°	2969.0	2900.8	2836.1	2771.3	2742.7	2714.1	2745.1	2776.1	2838.6	2930.3
2855.8	42.5°	2782.1	2708.4	2646.9	2585.5	2562.1	2538.7	2579.9	2621.0	2699.8	2784.3
2695.5	45°	2619.1	2542.7	2484.4	2426.2	2406.3	2386.7	2426.7	2466.8	2543.0	2628.7
2563.6	47.5°	2488.2	2412.8	2355.9	2298.8	2280.5	2262.0	2295.6	2329.2	2394.8	2505.3
2448.8	50°	2381.3	2313.7	2260.1	2206.3	2177.3	2148.6	2178.2	2208.0	2284.3	2429.6
2370.0	52.5°	2306.9	2244.0	2194.8	2145.5	2102.3	2058.9	2088.2	2117.7	2224.3	2391.4
2316.0	55°	2261.0	2205.8	2152.7	2099.5	2038.2	1976.7	2023.1	2069.7	2230.3	2385.7
2271.4	57.5°	2216.8	2162.3	2099.9	2037.5	1971.4	1905.2	1973.1	2040.9	2236.3	2373.4
2208.0	60°	2152.5	2097.1	2025.5	1953.9	1896.0	1837.9	1926.0	2013.9	2217.4	2307.9
2121.5	62.5°	2062.4	2003.2	1919.6	1836.2	1799.3	1762.5	1872.3	1982.3	2171.2	2182.3
2002.4	65°	1945.8	1889.3	1799.7	1710.2	1696.2	1681.9	1799.0	1915.8	2059.8	2058.4
1866.1	67.5°	1812.7	1759.0	1676.3	1593.7	1598.1	1602.6	1699.9	1797.3	1878.1	1881.9
1715.3	70°	1669.1	1622.8	1550.2	1477.5	1492.9	1508.3	1577.6	1646.8	1673.4	1673.4
1537.1	72.5°	1495.3	1453.5	1396.4	1339.2	1361.7	1384.3	1431.7	1479.2	1478.9	1462.1
1333.2	75°	1295.3	1257.5	1215.0	1172.5	1194.2	1215.8	1252.5	1289.0	1295.5	1218.1
1130.1	77.5°	1097.6	1065.0	1030.6	996.0	1017.9	1039.8	1069.1	1098.4	1101.9	974.2
907.4	80°	880.0	852.5	823.9	795.1	813.6	832.0	856.6	881.2	881.7	729.2
574.1	82.5°	583.7	593.3	595.7	598.1	611.1	624.1	636.1	648.1	640.9	510.7
293.9	85°	320.4	347.0	359.5	371.9	386.4	401.0	413.8	426.7	417.3	320.4
131.1	87.5°	151.5	171.7	172.2	172.7	175.5	178.2	183.4	188.5	176.5	136.2
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°
4465.7	0°	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7	4465.7
4533.9	2.5°	4571.6	4611.0	4650.5	4689.5	4728.8	4765.6	4802.5
4599.4	5°	4675.6	4757.2	4839.0	4920.0	5001.2	5082.6	5164.0
4662.6	7.5°	4769.0	4889.9	5010.7	5134.7	5258.8	5393.0	5527.3
4719.0	10°	4844.8	4991.6	5138.3	5302.2	5466.1	5636.0	5805.8
4743.2	12.5°	4885.6	5058.6	5231.7	5417.5	5603.2	5789.7	5976.3
4724.5	15°	4889.3	5088.6	5287.9	5489.5	5691.0	5885.5	6080.0
4643.1	17.5°	4841.4	5072.7	5304.0	5523.9	5743.8	5941.0	6138.2
4502.7	20°	4748.5	5028.8	5309.2	5550.8	5792.4	5997.5	6202.5
4338.1	22.5°	4634.0	4975.0	5316.0	5587.1	5858.1	6067.6	6277.0
4154.2	25°	4500.9	4921.9	5343.1	5652.9	5962.6	6167.7	6373.0
3986.1	27.5°	4373.2	4886.4	5399.7	5755.8	6111.7	6307.5	6503.2
3845.6	30°	4262.1	4869.8	5477.1	5888.9	6300.7	6489.7	6678.9
3724.4	32.5°	4154.2	4849.2	5543.9	6027.9	6511.8	6698.9	6886.2
3605.3	35°	4028.4	4810.5	5593.0	6186.2	6779.5	6958.9	7138.1
3465.1	37.5°	3866.3	4744.2	5622.1	6363.6	7105.1	7333.7	7562.3
3297.9	40°	3665.5	4652.9	5640.4	6588.8	7536.9	7870.0	8203.2
3113.3	42.5°	3442.3	4558.6	5675.2	6883.3	8091.4	8572.3	9053.1
2917.3	45°	3205.9	4471.0	5736.4	7270.9	8805.5	9454.1	10102.7
2762.2	47.5°	3019.1	4398.7	5778.4	7683.9	9589.5	10502.5	11415.4
2659.2	50°	2888.8	4319.9	5751.0	8067.1	10383.2	11759.6	13135.9
2591.4	52.5°	2791.5	4186.8	5582.2	8315.9	11049.5	13080.2	15110.8
2542.2	55°	2698.6	3966.0	5233.4	8261.1	11288.6	14250.9	17213.5
2483.9	57.5°	2594.4	3654.8	4715.1	7875.2	11035.5	15080.7	19125.9
2394.8	60°	2481.7	3250.8	4019.8	7157.0	10294.1	15288.0	20281.7
2239.9	62.5°	2297.6	2767.2	3236.7	6185.9	9135.0	14414.9	19694.8
2085.7	65°	2112.9	2332.1	2551.3	5195.1	7839.0	13179.6	18520.1
1866.8	67.5°	1851.6	1914.0	1976.2	4224.5	6472.7	11709.4	16946.1
1602.9	70°	1532.3	1514.7	1496.9	3326.2	5155.5	10105.3	15055.1
1362.2	72.5°	1262.1	1208.3	1154.6	2542.9	3931.1	8366.3	12801.7
1106.0	75°	993.9	945.2	896.6	1845.6	2794.6	6372.8	9951.1
865.4	77.5°	756.6	723.3	690.3	1250.6	1811.0	4460.4	7109.9
637.1	80°	544.9	531.2	517.5	805.8	1094.2	2873.8	4653.4
442.8	82.5°	374.9	372.2	369.8	495.6	621.7	1663.3	2705.0
270.8	85°	221.1	222.4	223.6	264.9	306.4	748.2	1190.1
115.8	87.5°	95.6	96.8	98.0	109.8	121.7	245.0	368.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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