

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: P957505

Luminaire Tested: **GALN-SB9D-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957505
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-SB9D-830-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82986 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

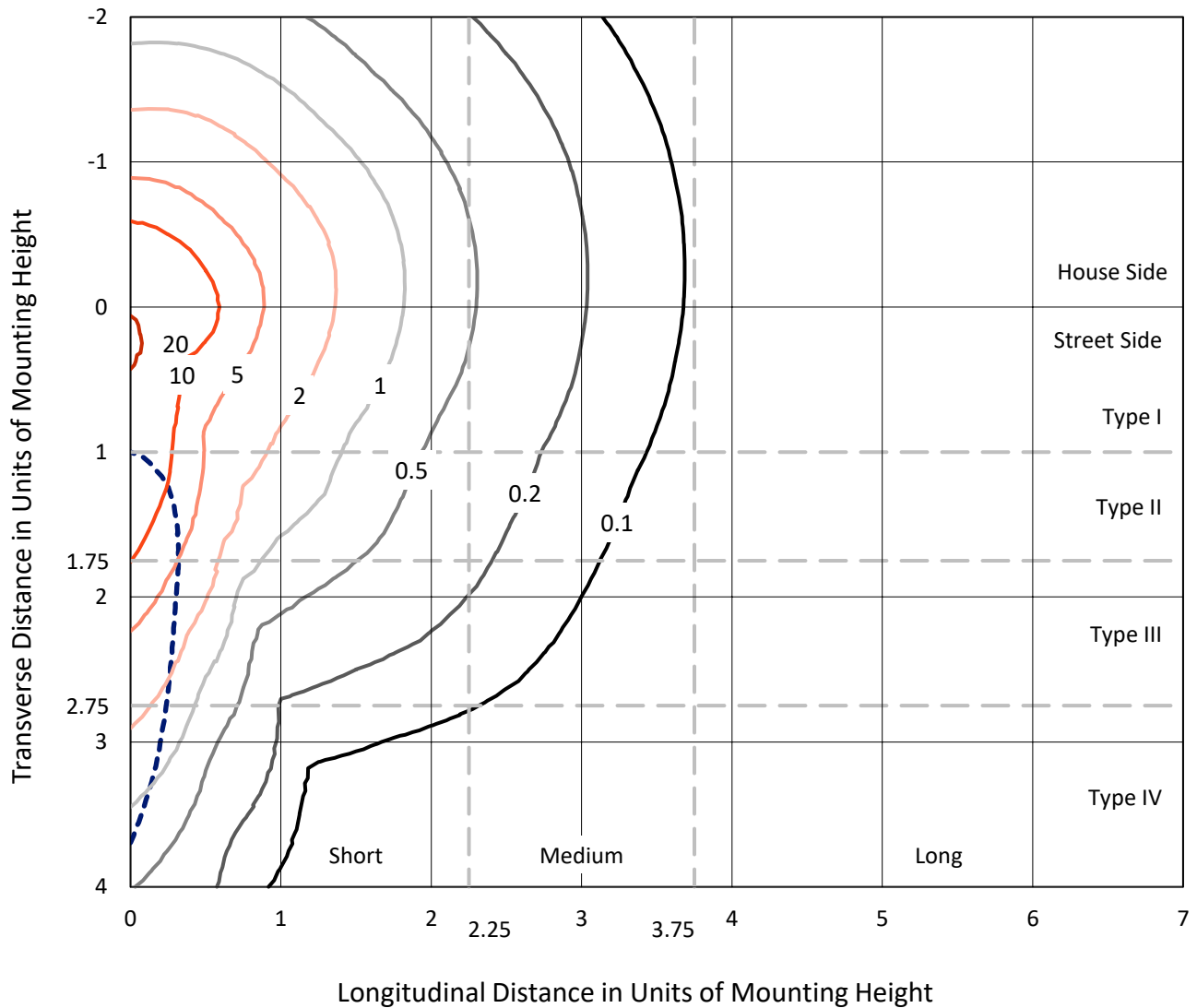
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

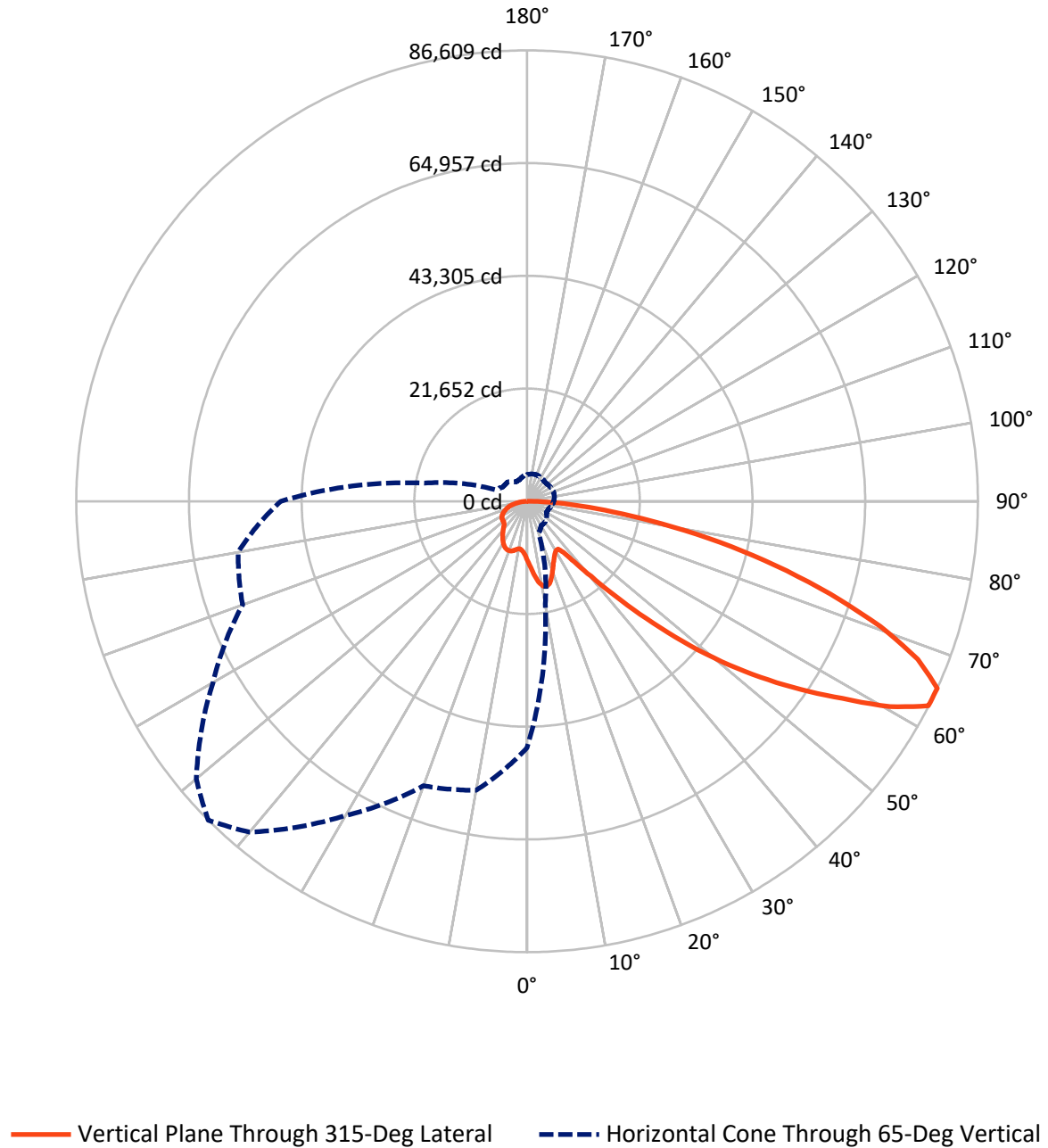
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 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	21090.9	0.0	21090.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	61895.1	0.0	61895.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	82986.0	0.0	82986.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.0	1.4
10°-20°	3553.6	4.3
20°-30°	5489.0	6.6
30°-40°	6956.0	8.4
40°-50°	10491.3	12.6
50°-60°	16950.3	20.4
60°-70°	21131.3	25.5
70°-80°	13856.8	16.7
80°-90°	3425.8	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°	82986.0	100.0
0°-180°	82986.0	100.0

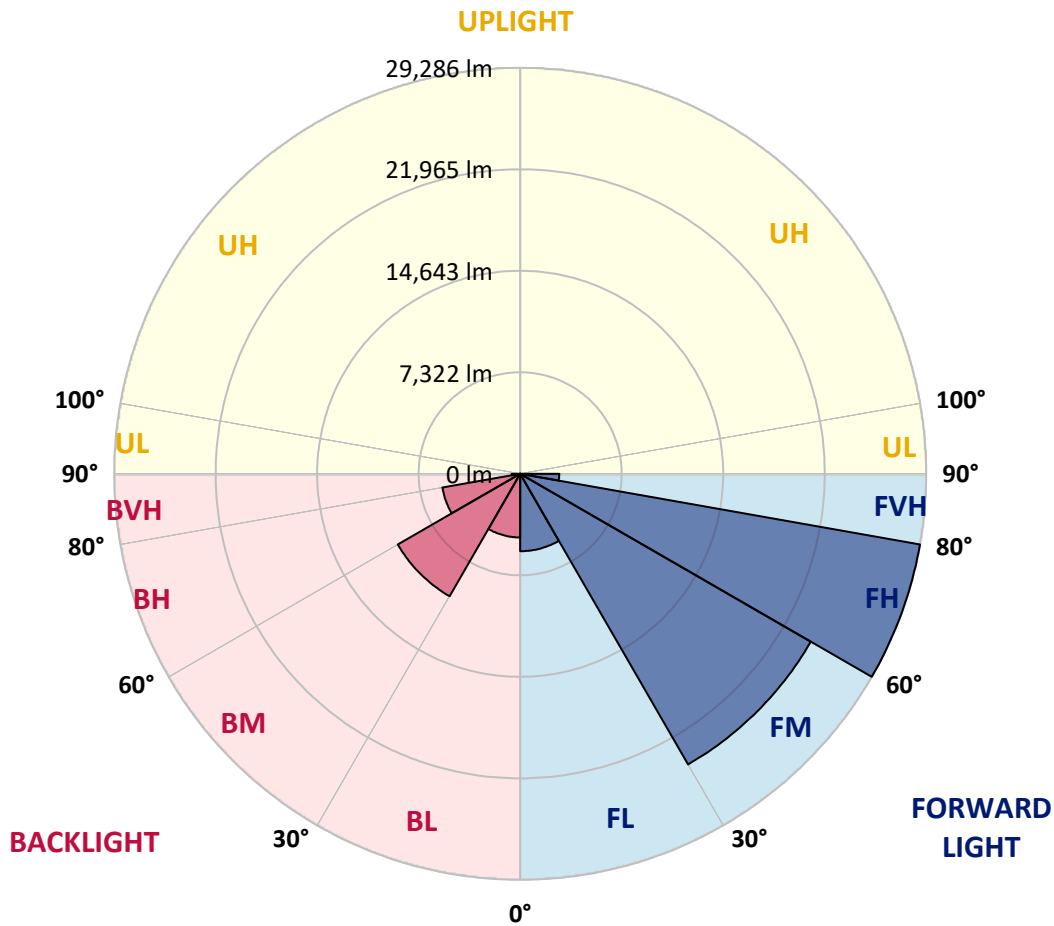


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5581.8	6.7			
FM (30°-60°)	24205.2	29.2			
FH (60°-80°)	29286.1	35.3			G5
FVH (80°-90°)	2822.1	3.4			G5
BL (0°-30°)	4592.8	5.5	B4/5000		
BM (30°-60°)	10192.4	12.3	B5		
BH (60°-80°)	5702.0	6.9	B5		G5
BVH (80°-90°)	603.7	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
2.5°	12271.7	12177.6	12083.4	11983.2	11883.3	11782.6	11681.9	11585.6	11489.2	11396.0
5°	13195.7	12987.7	12779.7	12572.1	12365.0	12156.1	11947.7	11752.8	11558.0	11374.1
7.5°	14124.0	13780.7	13437.8	13120.8	12803.8	12495.1	12186.3	11914.4	11642.5	11391.6
10°	14835.6	14401.6	13967.7	13548.6	13130.0	12755.2	12379.9	12058.5	11736.2	11426.6
12.5°	15271.2	14794.4	14318.0	13843.3	13368.6	12926.4	12484.1	12120.2	11756.3	11431.0
15°	15536.2	15039.2	14542.2	14027.2	13512.3	13003.0	12493.7	12072.5	11651.3	11290.9
17.5°	15685.0	15181.0	14677.0	14115.2	13553.4	12962.3	12371.1	11864.5	11357.9	10934.0
20°	15849.3	15325.5	14801.4	14184.0	13566.6	12850.2	12133.8	11505.9	10877.9	10384.4
22.5°	16039.7	15504.6	14969.1	14276.8	13584.1	12712.7	11841.3	11085.1	10328.8	9767.0
25°	16285.0	15760.4	15236.2	14445.0	13653.3	12576.9	11501.1	10615.2	9729.8	9154.0
27.5°	16617.7	16117.7	15617.2	14707.7	13797.8	12486.3	11174.8	10185.6	9196.5	8672.3
30°	17066.6	16583.2	16100.2	15047.9	13995.7	12443.8	10891.1	9826.6	8762.1	8322.0
32.5°	17596.4	17117.8	16639.6	15403.1	14166.5	12391.3	10615.2	9517.0	8418.3	8063.7
35°	18240.1	17782.1	17323.6	15807.7	14291.7	12292.3	10293.8	9212.7	8131.5	7836.0
37.5°	19323.9	18739.7	18155.6	16260.9	14366.1	12122.9	9879.6	8854.5	7829.4	7571.0
40°	20961.6	20110.3	19259.1	16836.3	14413.0	11889.5	9366.4	8427.1	7487.8	7253.6
42.5°	23133.5	21904.8	20676.1	17589.0	14501.9	11648.6	8796.2	7955.5	7114.8	6898.9
45°	25815.5	24158.1	22500.7	18579.5	14658.2	11424.9	8192.0	7454.6	6717.2	6498.2
47.5°	29169.7	26837.1	24504.1	19634.8	14765.5	11240.1	7714.7	7058.3	6401.9	6119.4
50°	33566.1	30049.4	26532.3	20613.9	14695.4	11038.6	7381.9	6795.1	6208.3	5837.0
52.5°	38612.7	33423.8	28234.8	21249.7	14264.1	10698.4	7133.2	6621.7	6110.7	5683.8
55°	43985.6	36415.4	28845.7	21109.6	13373.0	10134.4	6895.8	6496.0	6096.2	5699.1
57.5°	48872.4	38535.7	28198.9	20123.5	12048.4	9339.2	6629.6	6347.1	6064.7	5714.4
60°	51825.9	39065.5	26304.6	18288.3	10271.9	8306.7	6341.5	6119.4	5897.4	5666.2
62.5°	50326.2	36834.5	23342.8	15806.8	8270.8	7071.0	5871.2	5723.6	5576.5	5548.0
65°	47324.4	33677.8	20031.1	13274.9	6519.2	5959.2	5399.1	5329.5	5259.9	5263.4
67.5°	43302.5	29921.1	16539.8	10794.7	5049.7	4890.7	4731.4	4770.3	4808.9	4799.2
70°	38470.4	25822.1	13173.8	8499.4	3824.9	3870.5	3915.6	4096.0	4275.9	4275.9
72.5°	32712.2	21378.4	10045.1	6497.8	2950.5	3087.5	3225.0	3480.7	3736.0	3778.9
75°	25428.0	16284.5	7141.0	4716.0	2291.0	2415.4	2539.7	2826.1	3112.5	3310.4
77.5°	18167.9	11397.7	4627.6	3195.7	1763.8	1848.3	1933.3	2211.3	2489.4	2815.6
80°	11890.8	7343.3	2795.9	2058.9	1322.4	1357.4	1392.5	1628.1	1863.2	2252.9
82.5°	6912.0	4250.1	1588.6	1266.4	945.0	951.1	958.1	1131.5	1304.9	1637.7
85°	3041.1	1911.8	782.9	677.0	571.4	568.4	564.9	691.9	818.8	1066.3
87.5°	941.5	626.2	310.9	280.7	250.5	247.4	244.3	296.0	348.1	451.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
11292.2	2.5°	11208.1	11124.5	11048.7	10973.4	10907.3	10841.2	10774.6	10708.5	10657.3	10605.6
11192.3	5°	11033.8	10874.9	10741.8	10609.1	10491.7	10374.4	10268.0	10161.1	10079.2	9996.9
11156.4	7.5°	10945.4	10734.8	10559.6	10384.4	10236.9	10088.9	9958.4	9828.3	9730.7	9633.5
11174.0	10°	10951.5	10729.1	10553.9	10378.8	10219.8	10060.4	9913.7	9767.0	9650.6	9533.6
11195.9	12.5°	11013.7	10832.4	10715.9	10600.3	10475.1	10350.7	10198.8	10047.3	9898.4	9749.5
11102.6	15°	11015.4	10928.7	10944.5	10960.3	10927.9	10895.5	10763.7	10631.9	10419.9	10208.0
10818.0	17.5°	10849.9	10881.4	11072.4	11263.3	11364.9	11466.0	11359.6	11253.7	10973.0	10692.3
10353.8	20°	10502.7	10651.6	10983.0	11315.0	11527.3	11739.7	11690.7	11641.2	11320.2	10999.7
9827.0	22.5°	10047.3	10267.5	10645.9	11025.1	11301.4	11577.7	11607.5	11636.8	11330.3	11023.8
9316.0	25°	9570.0	9824.0	10164.2	10504.9	10776.8	11048.7	11150.3	11251.5	11000.1	10749.2
8869.4	27.5°	9114.6	9359.8	9639.6	9919.0	10137.0	10355.1	10468.1	10581.5	10402.4	10223.7
8476.6	30°	8671.0	8866.3	9098.4	9330.5	9511.3	9692.6	9784.5	9876.5	9740.3	9603.7
8132.4	32.5°	8247.6	8362.7	8548.0	8733.6	8907.0	9080.9	9182.9	9285.4	9160.1	9034.4
7807.5	35°	7839.0	7871.0	8012.4	8153.4	8325.1	8497.2	8619.8	8742.4	8653.1	8564.2
7466.8	37.5°	7431.8	7396.8	7498.3	7599.5	7770.7	7942.4	8093.9	8245.4	8204.2	8163.1
7093.7	40°	7014.5	6935.2	7008.4	7081.5	7247.0	7412.5	7586.8	7761.5	7771.6	7781.2
6697.5	42.5°	6592.4	6487.3	6546.8	6606.8	6763.6	6920.8	7109.1	7297.4	7347.7	7398.1
6303.4	45°	6200.9	6098.9	6148.8	6199.6	6348.5	6497.3	6692.6	6887.9	6960.2	7032.4
5951.7	47.5°	5865.9	5780.1	5827.4	5874.2	6020.0	6165.4	6358.1	6550.8	6634.0	6717.2
5642.2	50°	5566.0	5490.2	5563.8	5637.8	5775.3	5912.3	6084.9	6257.4	6364.2	6471.1
5411.4	52.5°	5336.1	5261.2	5372.0	5482.3	5608.4	5734.1	5894.8	6056.0	6182.5	6309.1
5288.8	55°	5169.7	5051.0	5208.2	5365.0	5500.7	5636.5	5777.5	5918.0	6052.0	6186.4
5215.2	57.5°	5041.8	4868.4	5037.4	5206.5	5365.8	5525.2	5664.5	5804.2	5939.5	6074.3
5146.0	60°	4921.4	4696.3	4844.8	4992.8	5175.8	5358.8	5500.3	5642.2	5777.9	5913.6
5065.5	62.5°	4784.3	4503.6	4597.8	4691.9	4905.2	5118.9	5269.9	5421.0	5545.4	5669.7
4895.6	65°	4596.9	4297.8	4334.2	4370.1	4598.7	4827.7	4972.2	5116.7	5226.2	5335.6
4592.5	67.5°	4343.8	4095.1	4083.7	4072.3	4283.4	4494.9	4632.0	4768.6	4863.2	4957.7
4208.1	70°	4031.2	3854.3	3814.9	3775.4	3961.1	4146.8	4265.0	4383.2	4468.6	4554.0
3779.8	72.5°	3658.5	3537.2	3479.4	3422.1	3568.3	3714.1	3821.0	3927.8	4011.5	4095.1
3293.8	75°	3200.5	3106.8	3051.6	2996.0	3104.6	3213.2	3310.0	3406.7	3482.9	3559.1
2806.8	77.5°	2732.0	2657.1	2601.0	2545.0	2633.4	2721.5	2804.7	2887.9	2968.0	3047.7
2251.6	80°	2189.0	2125.9	2079.1	2031.8	2105.4	2178.5	2248.5	2318.6	2379.5	2439.9
1656.1	82.5°	1625.4	1594.8	1561.5	1528.2	1522.1	1516.0	1491.4	1466.9	1596.5	1726.1
1090.3	85°	1057.5	1024.7	987.4	950.2	918.7	886.7	818.8	751.0	872.3	994.0
481.7	87.5°	468.5	455.4	448.4	441.4	440.1	438.8	387.1	335.0	385.8	437.0
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
10564.0	2.5°	10522.4	10490.0	10457.6	10427.8	10397.6	10360.4	10397.6	10427.8	10457.6	10490.0
9939.6	5°	9882.2	9841.5	9800.7	9769.7	9738.6	9707.9	9738.6	9769.7	9800.7	9841.5
9565.2	7.5°	9496.9	9450.0	9403.6	9375.6	9348.0	9327.0	9348.0	9375.6	9403.6	9450.0
9457.4	10°	9380.4	9336.2	9291.9	9268.3	9244.6	9235.0	9244.6	9268.3	9291.9	9336.2
9651.0	12.5°	9552.5	9503.0	9453.9	9433.8	9413.7	9410.2	9413.7	9433.8	9453.9	9503.0
10058.2	15°	9908.5	9839.7	9771.4	9745.1	9718.9	9716.7	9718.9	9745.1	9771.4	9839.7
10471.6	17.5°	10250.9	10149.3	10047.3	10014.0	9980.3	9975.0	9980.3	10014.0	10047.3	10149.3
10729.1	20°	10458.9	10328.8	10198.3	10156.7	10115.1	10102.0	10115.1	10156.7	10198.3	10328.8
10745.3	22.5°	10466.3	10329.3	10191.8	10145.8	10099.8	10080.1	10099.8	10145.8	10191.8	10329.3
10501.4	25°	10254.4	10135.3	10016.6	9973.3	9930.4	9905.0	9930.4	9973.3	10016.6	10135.3
10031.5	27.5°	9839.3	9759.6	9679.5	9659.7	9640.0	9633.5	9640.0	9659.7	9679.5	9759.6
9466.2	30°	9327.8	9287.1	9245.9	9245.9	9245.9	9252.5	9245.9	9245.9	9245.9	9287.1
8924.5	32.5°	8814.6	8787.9	8761.2	8764.7	8768.7	8775.2	8768.7	8764.7	8761.2	8787.9
8462.6	35°	8361.4	8320.7	8280.4	8271.7	8262.9	8258.5	8262.9	8271.7	8280.4	8320.7
8069.8	37.5°	7976.1	7902.1	7828.5	7789.5	7750.6	7728.7	7750.6	7789.5	7828.5	7902.1
7702.0	40°	7622.7	7515.0	7408.1	7335.5	7263.6	7220.7	7263.6	7335.5	7408.1	7515.0
7331.1	42.5°	7264.5	7131.0	6997.4	6891.9	6786.3	6717.2	6786.3	6891.9	6997.4	7131.0
6972.0	45°	6912.0	6759.2	6606.8	6482.9	6359.0	6279.3	6359.0	6482.9	6606.8	6759.2
6675.1	47.5°	6633.1	6497.3	6361.6	6246.9	6132.6	6056.0	6132.6	6246.9	6361.6	6497.3
6468.4	50°	6466.7	6358.1	6249.5	6143.5	6037.6	5964.0	6037.6	6143.5	6249.5	6358.1
6331.8	52.5°	6354.6	6266.1	6177.7	6082.7	5988.1	5920.2	5988.1	6082.7	6177.7	6266.1
6218.0	55°	6249.5	6172.4	6095.4	6012.2	5929.0	5867.7	5929.0	6012.2	6095.4	6172.4
6106.3	57.5°	6138.3	6060.3	5982.4	5900.1	5817.3	5753.8	5817.3	5900.1	5982.4	6060.3
5948.7	60°	5983.7	5907.5	5831.8	5746.8	5661.9	5596.2	5661.9	5746.8	5831.8	5907.5
5703.5	62.5°	5737.2	5668.4	5599.7	5510.3	5421.0	5342.2	5421.0	5510.3	5599.7	5668.4
5370.2	65°	5404.4	5338.3	5272.1	5185.4	5099.2	5031.3	5099.2	5185.4	5272.1	5338.3
4991.5	67.5°	5024.7	4963.9	4903.4	4822.9	4742.3	4681.0	4742.3	4822.9	4903.4	4963.9
4586.4	70°	4618.8	4569.3	4519.9	4442.8	4365.7	4295.7	4365.7	4442.8	4519.9	4569.3
4133.6	72.5°	4172.2	4131.0	4089.8	4016.3	3943.2	3875.3	3943.2	4016.3	4089.8	4131.0
3599.4	75°	3639.7	3619.6	3599.4	3537.7	3475.9	3411.1	3475.9	3537.7	3599.4	3619.6
3085.3	77.5°	3123.0	3095.0	3066.1	3003.9	2941.7	2890.0	2941.7	3003.9	3066.1	3095.0
2489.8	80°	2539.7	2527.5	2515.7	2432.0	2347.9	2250.7	2347.9	2432.0	2515.7	2527.5
1811.1	82.5°	1896.0	1890.8	1885.1	1814.6	1743.7	1681.5	1743.7	1814.6	1885.1	1890.8
1099.1	85°	1204.2	1195.4	1186.7	1131.5	1076.3	1020.3	1076.3	1131.5	1186.7	1195.4
479.5	87.5°	522.0	511.4	500.1	472.0	443.1	416.0	443.1	472.0	500.1	511.4
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°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
10522.4	2.5°	10564.0	10605.6	10657.3	10708.5	10774.6	10841.2	10907.3	10973.4	11048.7	11124.5
9882.2	5°	9939.6	9996.9	10079.2	10161.1	10268.0	10374.4	10491.7	10609.1	10741.8	10874.9
9496.9	7.5°	9565.2	9633.5	9730.7	9828.3	9958.4	10088.9	10236.9	10384.4	10559.6	10734.8
9380.4	10°	9457.4	9533.6	9650.6	9767.0	9913.7	10060.4	10219.8	10378.8	10553.9	10729.1
9552.5	12.5°	9651.0	9749.5	9898.4	10047.3	10198.8	10350.7	10475.1	10600.3	10715.9	10832.4
9908.5	15°	10058.2	10208.0	10419.9	10631.9	10763.7	10895.5	10927.9	10960.3	10944.5	10928.7
10250.9	17.5°	10471.6	10692.3	10973.0	11253.7	11359.6	11466.0	11364.9	11263.3	11072.4	10881.4
10458.9	20°	10729.1	10999.7	11320.2	11641.2	11690.7	11739.7	11527.3	11315.0	10983.0	10651.6
10466.3	22.5°	10745.3	11023.8	11330.3	11636.8	11607.5	11577.7	11301.4	11025.1	10645.9	10267.5
10254.4	25°	10501.4	10749.2	11000.1	11251.5	11150.3	11048.7	10776.8	10504.9	10164.2	9824.0
9839.3	27.5°	10031.5	10223.7	10402.4	10581.5	10468.1	10355.1	10137.0	9919.0	9639.6	9359.8
9327.8	30°	9466.2	9603.7	9740.3	9876.5	9784.5	9692.6	9511.3	9330.5	9098.4	8866.3
8814.6	32.5°	8924.5	9034.4	9160.1	9285.4	9182.9	9080.9	8907.0	8733.6	8548.0	8362.7
8361.4	35°	8462.6	8564.2	8653.1	8742.4	8619.8	8497.2	8325.1	8153.4	8012.4	7871.0
7976.1	37.5°	8069.8	8163.1	8204.2	8245.4	8093.9	7942.4	7770.7	7599.5	7498.3	7396.8
7622.7	40°	7702.0	7781.2	7771.6	7761.5	7586.8	7412.5	7247.0	7081.5	7008.4	6935.2
7264.5	42.5°	7331.1	7398.1	7347.7	7297.4	7109.1	6920.8	6763.6	6606.8	6546.8	6487.3
6912.0	45°	6972.0	7032.4	6960.2	6887.9	6692.6	6497.3	6348.5	6199.6	6148.8	6098.9
6633.1	47.5°	6675.1	6717.2	6634.0	6550.8	6358.1	6165.4	6020.0	5874.2	5827.4	5780.1
6466.7	50°	6468.4	6471.1	6364.2	6257.4	6084.9	5912.3	5775.3	5637.8	5563.8	5490.2
6354.6	52.5°	6331.8	6309.1	6182.5	6056.0	5894.8	5734.1	5608.4	5482.3	5372.0	5261.2
6249.5	55°	6218.0	6186.4	6052.0	5918.0	5777.5	5636.5	5500.7	5365.0	5208.2	5051.0
6138.3	57.5°	6106.3	6074.3	5939.5	5804.2	5664.5	5525.2	5365.8	5206.5	5037.4	4868.4
5983.7	60°	5948.7	5913.6	5777.9	5642.2	5500.3	5358.8	5175.8	4992.8	4844.8	4696.3
5737.2	62.5°	5703.5	5669.7	5545.4	5421.0	5269.9	5118.9	4905.2	4691.9	4597.8	4503.6
5404.4	65°	5370.2	5335.6	5226.2	5116.7	4972.2	4827.7	4598.7	4370.1	4334.2	4297.8
5024.7	67.5°	4991.5	4957.7	4863.2	4768.6	4632.0	4494.9	4283.4	4072.3	4083.7	4095.1
4618.8	70°	4586.4	4554.0	4468.6	4383.2	4265.0	4146.8	3961.1	3775.4	3814.9	3854.3
4172.2	72.5°	4133.6	4095.1	4011.5	3927.8	3821.0	3714.1	3568.3	3422.1	3479.4	3537.2
3639.7	75°	3599.4	3559.1	3482.9	3406.7	3310.0	3213.2	3104.6	2996.0	3051.6	3106.8
3123.0	77.5°	3085.3	3047.7	2968.0	2887.9	2804.7	2721.5	2633.4	2545.0	2601.0	2657.1
2539.7	80°	2489.8	2439.9	2379.5	2318.6	2248.5	2178.5	2105.4	2031.8	2079.1	2125.9
1896.0	82.5°	1811.1	1726.1	1596.5	1466.9	1491.4	1516.0	1522.1	1528.2	1561.5	1594.8
1204.2	85°	1099.1	994.0	872.3	751.0	818.8	886.7	918.7	950.2	987.4	1024.7
522.0	87.5°	479.5	437.0	385.8	335.0	387.1	438.8	440.1	441.4	448.4	455.4
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
11208.1	2.5°	11292.2	11396.0	11489.2	11585.6	11681.9	11782.6	11883.3	11983.2	12083.4	12177.6
11033.8	5°	11192.3	11374.1	11558.0	11752.8	11947.7	12156.1	12365.0	12572.1	12779.7	12987.7
10945.4	7.5°	11156.4	11391.6	11642.5	11914.4	12186.3	12495.1	12803.8	13120.8	13437.8	13780.7
10951.5	10°	11174.0	11426.6	11736.2	12058.5	12379.9	12755.2	13130.0	13548.6	13967.7	14401.6
11013.7	12.5°	11195.9	11431.0	11756.3	12120.2	12484.1	12926.4	13368.6	13843.3	14318.0	14794.4
11015.4	15°	11102.6	11290.9	11651.3	12072.5	12493.7	13003.0	13512.3	14027.2	14542.2	15039.2
10849.9	17.5°	10818.0	10934.0	11357.9	11864.5	12371.1	12962.3	13553.4	14115.2	14677.0	15181.0
10502.7	20°	10353.8	10384.4	10877.9	11505.9	12133.8	12850.2	13566.6	14184.0	14801.4	15325.5
10047.3	22.5°	9827.0	9767.0	10328.8	11085.1	11841.3	12712.7	13584.1	14276.8	14969.1	15504.6
9570.0	25°	9316.0	9154.0	9729.8	10615.2	11501.1	12576.9	13653.3	14445.0	15236.2	15760.4
9114.6	27.5°	8869.4	8672.3	9196.5	10185.6	11174.8	12486.3	13797.8	14707.7	15617.2	16117.7
8671.0	30°	8476.6	8322.0	8762.1	9826.6	10891.1	12443.8	13995.7	15047.9	16100.2	16583.2
8247.6	32.5°	8132.4	8063.7	8418.3	9517.0	10615.2	12391.3	14166.5	15403.1	16639.6	17117.8
7839.0	35°	7807.5	7836.0	8131.5	9212.7	10293.8	12292.3	14291.7	15807.7	17323.6	17782.1
7431.8	37.5°	7466.8	7571.0	7829.4	8854.5	9879.6	12122.9	14366.1	16260.9	18155.6	18739.7
7014.5	40°	7093.7	7253.6	7487.8	8427.1	9366.4	11889.5	14413.0	16836.3	19259.1	20110.3
6592.4	42.5°	6697.5	6898.9	7114.8	7955.5	8796.2	11648.6	14501.9	17589.0	20676.1	21904.8
6200.9	45°	6303.4	6498.2	6717.2	7454.6	8192.0	11424.9	14658.2	18579.5	22500.7	24158.1
5865.9	47.5°	5951.7	6119.4	6401.9	7058.3	7714.7	11240.1	14765.5	19634.8	24504.1	26837.1
5566.0	50°	5642.2	5837.0	6208.3	6795.1	7381.9	11038.6	14695.4	20613.9	26532.3	30049.4
5336.1	52.5°	5411.4	5683.8	6110.7	6621.7	7133.2	10698.4	14264.1	21249.7	28234.8	33423.8
5169.7	55°	5288.8	5699.1	6096.2	6496.0	6895.8	10134.4	13373.0	21109.6	28845.7	36415.4
5041.8	57.5°	5215.2	5714.4	6064.7	6347.1	6629.6	9339.2	12048.4	20123.5	28198.9	38535.7
4921.4	60°	5146.0	5666.2	5897.4	6119.4	6341.5	8306.7	10271.9	18288.3	26304.6	39065.5
4784.3	62.5°	5065.5	5548.0	5576.5	5723.6	5871.2	7071.0	8270.8	15806.8	23342.8	36834.5
4596.9	65°	4895.6	5263.4	5259.9	5329.5	5399.1	5959.2	6519.2	13274.9	20031.1	33677.8
4343.8	67.5°	4592.5	4799.2	4808.9	4770.3	4731.4	4890.7	5049.7	10794.7	16539.8	29921.1
4031.2	70°	4208.1	4275.9	4275.9	4096.0	3915.6	3870.5	3824.9	8499.4	13173.8	25822.1
3658.5	72.5°	3779.8	3778.9	3736.0	3480.7	3225.0	3087.5	2950.5	6497.8	10045.1	21378.4
3200.5	75°	3293.8	3310.4	3112.5	2826.1	2539.7	2415.4	2291.0	4716.0	7141.0	16284.5
2732.0	77.5°	2806.8	2815.6	2489.4	2211.3	1933.3	1848.3	1763.8	3195.7	4627.6	11397.7
2189.0	80°	2251.6	2252.9	1863.2	1628.1	1392.5	1357.4	1322.4	2058.9	2795.9	7343.3
1625.4	82.5°	1656.1	1637.7	1304.9	1131.5	958.1	951.1	945.0	1266.4	1588.6	4250.1
1057.5	85°	1090.3	1066.3	818.8	691.9	564.9	568.4	571.4	677.0	782.9	1911.8
468.5	87.5°	481.7	451.0	348.1	296.0	244.3	247.4	250.5	280.7	310.9	626.2
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
12271.7	2.5°	12318.2	12365.0	12431.1	12497.2	12536.7	12576.1	12595.8	12615.5	12606.7	12615.5
13195.7	5°	13358.1	13521.0	13682.2	13843.7	13931.3	14018.9	14071.9	14125.3	14165.6	14125.3
14124.0	7.5°	14388.5	14652.5	14890.3	15128.1	15271.2	15414.4	15491.9	15569.0	15606.2	15569.0
14835.6	10°	15148.2	15460.9	15739.8	16018.7	16187.7	16355.9	16431.2	16506.1	16534.5	16506.1
15271.2	12.5°	15610.2	15948.7	16200.9	16452.2	16574.8	16697.4	16738.6	16779.8	16784.1	16779.8
15536.2	15°	15828.7	16120.7	16278.8	16437.3	16441.7	16446.1	16402.3	16358.5	16306.8	16358.5
15685.0	17.5°	15882.5	16080.0	16083.1	16085.7	15908.4	15731.0	15568.6	15405.7	15291.0	15405.7
15849.3	20°	15918.0	15987.2	15779.2	15571.2	15179.7	14788.3	14503.2	14218.1	14043.0	14218.1
16039.7	22.5°	15949.5	15859.3	15428.4	14997.6	14421.8	13845.9	13489.5	13133.1	12939.5	13133.1
16285.0	25°	16000.3	15715.7	15061.5	14407.3	13708.0	13008.7	12633.9	12259.9	12076.9	12259.9
16617.7	27.5°	16108.9	15599.7	14733.1	13867.0	13091.9	12316.8	11948.1	11579.9	11406.9	11579.9
17066.6	30°	16307.7	15549.3	14482.6	13415.9	12608.5	11801.0	11459.0	11117.0	10955.9	11117.0
17596.4	32.5°	16557.3	15518.7	14311.8	13105.0	12346.2	11587.3	11318.9	11050.0	10934.0	11050.0
18240.1	35°	16968.5	15697.3	14439.7	13182.5	12655.3	12128.5	12065.9	12003.3	11993.7	12003.3
19323.9	37.5°	17828.1	16332.2	15189.4	14046.5	14012.3	13978.2	14264.6	14550.9	14699.8	14550.9
20961.6	40°	19334.8	17708.1	16858.1	16008.2	16608.1	17208.0	17904.3	18600.5	18947.3	18600.5
23133.5	42.5°	21519.4	19905.4	19415.8	18926.3	20234.7	21543.1	22809.4	24075.8	24819.3	24075.8
25815.5	45°	24365.7	22915.4	22699.5	22483.2	24579.4	26676.0	28756.8	30838.1	32101.4	30838.1
29169.7	47.5°	27759.3	26348.4	26304.6	26260.9	29284.9	32308.0	35354.4	38400.3	40189.1	38400.3
33566.1	50°	31823.7	30081.8	30089.3	30096.7	33993.9	37891.1	41912.2	45933.3	48364.4	45933.3
38612.7	52.5°	36503.0	34393.7	34180.4	33966.8	38621.9	43277.1	48252.3	53227.1	56141.3	53227.1
43985.6	55°	41901.2	39816.9	38985.4	38153.8	43334.9	48515.5	54446.7	60377.8	63843.7	60377.8
48872.4	57.5°	47737.4	46601.9	44934.0	43266.6	48498.0	53729.4	60447.4	67165.0	71462.9	67165.0
51825.9	60°	53588.8	55352.2	53281.0	51209.8	56160.5	61111.3	68304.0	75496.7	80141.8	75496.7
50326.2	62.5°	55143.3	59960.5	59727.1	59493.3	64028.5	68564.1	75407.3	82250.2	86543.6	82250.2
47324.4	65°	51845.6	56366.8	57261.4	58155.5	63919.0	69682.9	76318.6	82953.9	86609.3	82953.9
43302.5	67.5°	47602.5	51902.5	52322.0	52741.1	58746.2	64751.0	71415.1	78079.3	80943.1	78079.3
38470.4	70°	43147.5	47825.0	48012.4	48200.2	53570.4	58940.2	64675.2	70409.8	72001.5	70409.8
32712.2	72.5°	38079.4	43447.0	43581.8	43716.3	47917.8	52119.3	56414.5	60709.3	60870.4	60709.3
25428.0	75°	30983.0	36538.0	37036.8	37535.5	40804.3	44073.2	47096.7	50120.3	49310.3	50120.3
18167.9	77.5°	23353.3	28539.2	29252.9	29966.7	32451.7	34936.7	37081.0	39225.8	37833.3	39225.8
11890.8	80°	16253.4	20615.6	21502.8	22389.9	24266.7	26142.6	27268.9	28394.7	26154.9	28394.7
6912.0	82.5°	9894.5	12877.3	13868.3	14859.6	16151.4	17443.2	17913.0	18382.4	16622.1	18382.4
3041.1	85°	4624.1	6207.0	7050.0	7892.9	8954.3	10015.3	10282.0	10548.7	9138.7	10548.7
941.5	87.5°	1473.5	2005.5	2475.8	2946.1	3476.8	4007.5	4030.3	4052.6	3402.4	4052.6
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°
11411.3	0°	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3	11411.3
12595.8	2.5°	12576.1	12536.7	12497.2	12431.1	12365.0	12318.2	12271.7
14071.9	5°	14018.9	13931.3	13843.7	13682.2	13521.0	13358.1	13195.7
15491.9	7.5°	15414.4	15271.2	15128.1	14890.3	14652.5	14388.5	14124.0
16431.2	10°	16355.9	16187.7	16018.7	15739.8	15460.9	15148.2	14835.6
16738.6	12.5°	16697.4	16574.8	16452.2	16200.9	15948.7	15610.2	15271.2
16402.3	15°	16446.1	16441.7	16437.3	16278.8	16120.7	15828.7	15536.2
15568.6	17.5°	15731.0	15908.4	16085.7	16083.1	16080.0	15882.5	15685.0
14503.2	20°	14788.3	15179.7	15571.2	15779.2	15987.2	15918.0	15849.3
13489.5	22.5°	13845.9	14421.8	14997.6	15428.4	15859.3	15949.5	16039.7
12633.9	25°	13008.7	13708.0	14407.3	15061.5	15715.7	16000.3	16285.0
11948.1	27.5°	12316.8	13091.9	13867.0	14733.1	15599.7	16108.9	16617.7
11459.0	30°	11801.0	12608.5	13415.9	14482.6	15549.3	16307.7	17066.6
11318.9	32.5°	11587.3	12346.2	13105.0	14311.8	15518.7	16557.3	17596.4
12065.9	35°	12128.5	12655.3	13182.5	14439.7	15697.3	16968.5	18240.1
14264.6	37.5°	13978.2	14012.3	14046.5	15189.4	16332.2	17828.1	19323.9
17904.3	40°	17208.0	16608.1	16008.2	16858.1	17708.1	19334.8	20961.6
22809.4	42.5°	21543.1	20234.7	18926.3	19415.8	19905.4	21519.4	23133.5
28756.8	45°	26676.0	24579.4	22483.2	22699.5	22915.4	24365.7	25815.5
35354.4	47.5°	32308.0	29284.9	26260.9	26304.6	26348.4	27759.3	29169.7
41912.2	50°	37891.1	33993.9	30096.7	30089.3	30081.8	31823.7	33566.1
48252.3	52.5°	43277.1	38621.9	33966.8	34180.4	34393.7	36503.0	38612.7
54446.7	55°	48515.5	43334.9	38153.8	38985.4	39816.9	41901.2	43985.6
60447.4	57.5°	53729.4	48498.0	43266.6	44934.0	46601.9	47737.4	48872.4
68304.0	60°	61111.3	56160.5	51209.8	53281.0	55352.2	53588.8	51825.9
75407.3	62.5°	68564.1	64028.5	59493.3	59727.1	59960.5	55143.3	50326.2
76318.6	65°	69682.9	63919.0	58155.5	57261.4	56366.8	51845.6	47324.4
71415.1	67.5°	64751.0	58746.2	52741.1	52322.0	51902.5	47602.5	43302.5
64675.2	70°	58940.2	53570.4	48200.2	48012.4	47825.0	43147.5	38470.4
56414.5	72.5°	52119.3	47917.8	43716.3	43581.8	43447.0	38079.4	32712.2
47096.7	75°	44073.2	40804.3	37535.5	37036.8	36538.0	30983.0	25428.0
37081.0	77.5°	34936.7	32451.7	29966.7	29252.9	28539.2	23353.3	18167.9
27268.9	80°	26142.6	24266.7	22389.9	21502.8	20615.6	16253.4	11890.8
17913.0	82.5°	17443.2	16151.4	14859.6	13868.3	12877.3	9894.5	6912.0
10282.0	85°	10015.3	8954.3	7892.9	7050.0	6207.0	4624.1	3041.1
4030.3	87.5°	4007.5	3476.8	2946.1	2475.8	2005.5	1473.5	941.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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