

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: P956896

Luminaire Tested: **GALN-SB9B-930-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-930-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35552 lumens
Efficiency: N/A
Efficacy: 107.9 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

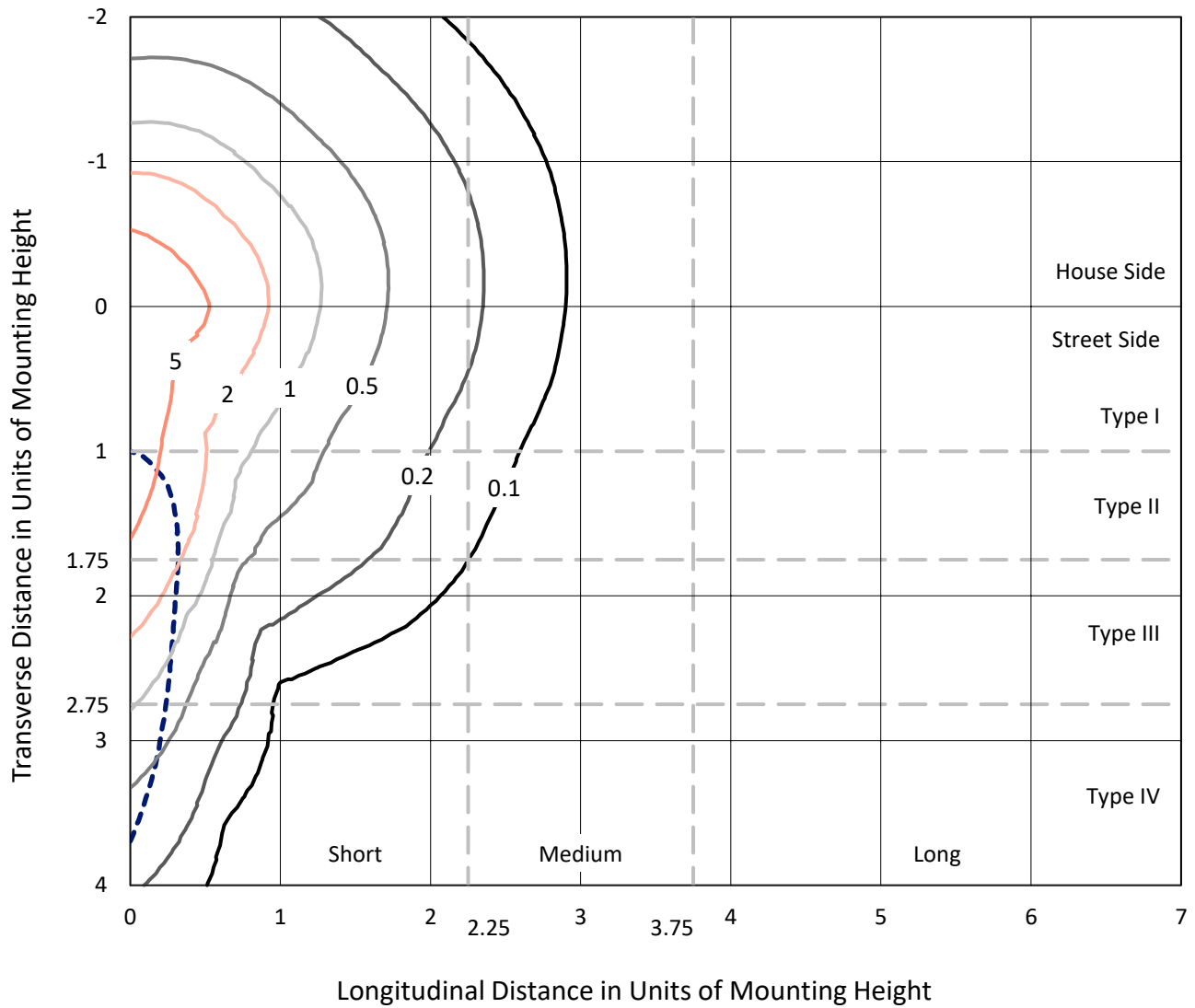
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

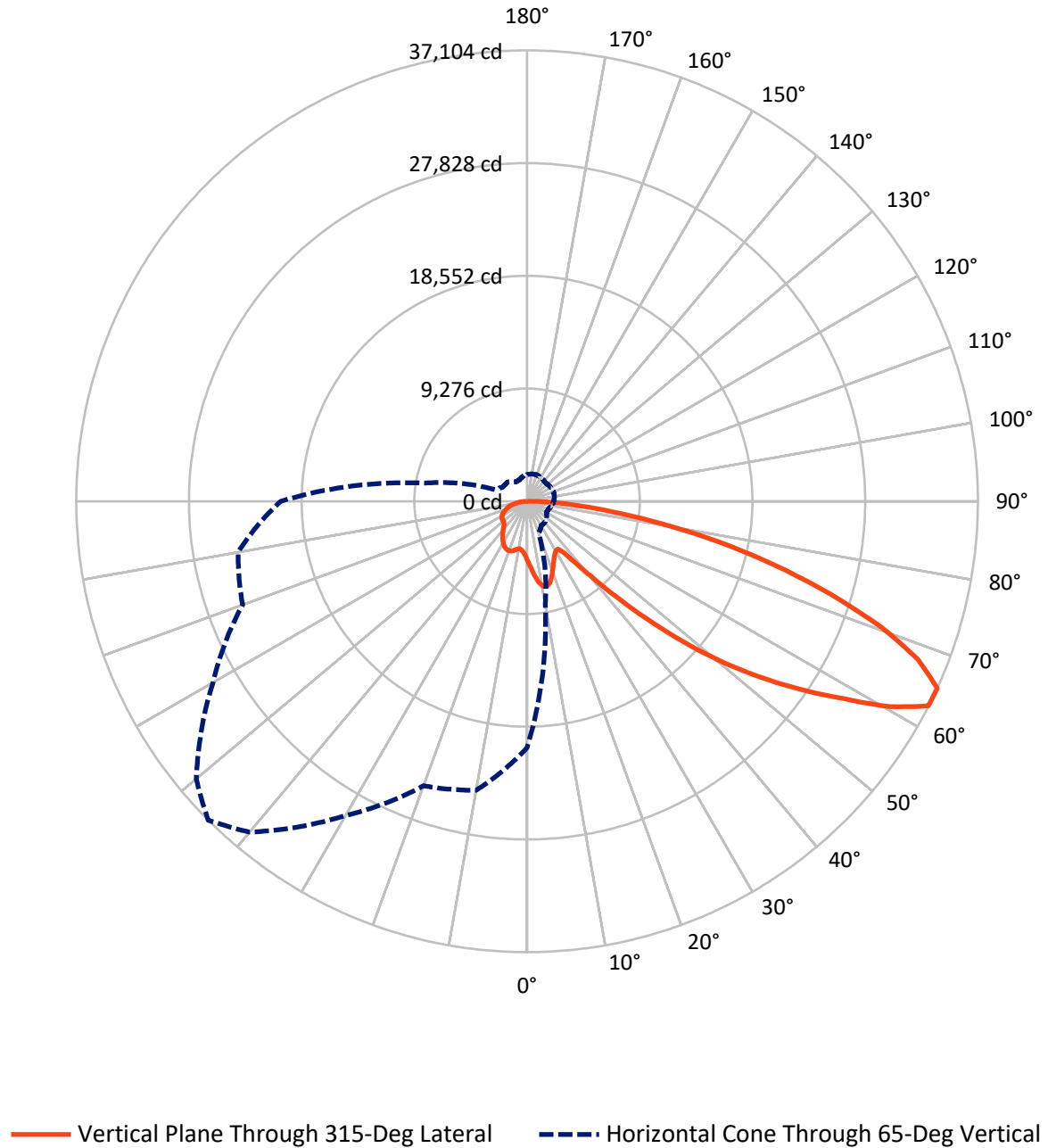
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	9035.5	0.0	9035.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	26516.5	0.0	26516.5
	% Fixture	74.6	0.0	74.6
Total	Lumens	35552.0	0.0	35552.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.0	1.4
10°-20°	1522.4	4.3
20°-30°	2351.5	6.6
30°-40°	2980.0	8.4
40°-50°	4494.6	12.6
50°-60°	7261.7	20.4
60°-70°	9052.8	25.5
70°-80°	5936.4	16.7
80°-90°	1467.6	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°	35552.0	100.0
0°-180°	35552.0	100.0



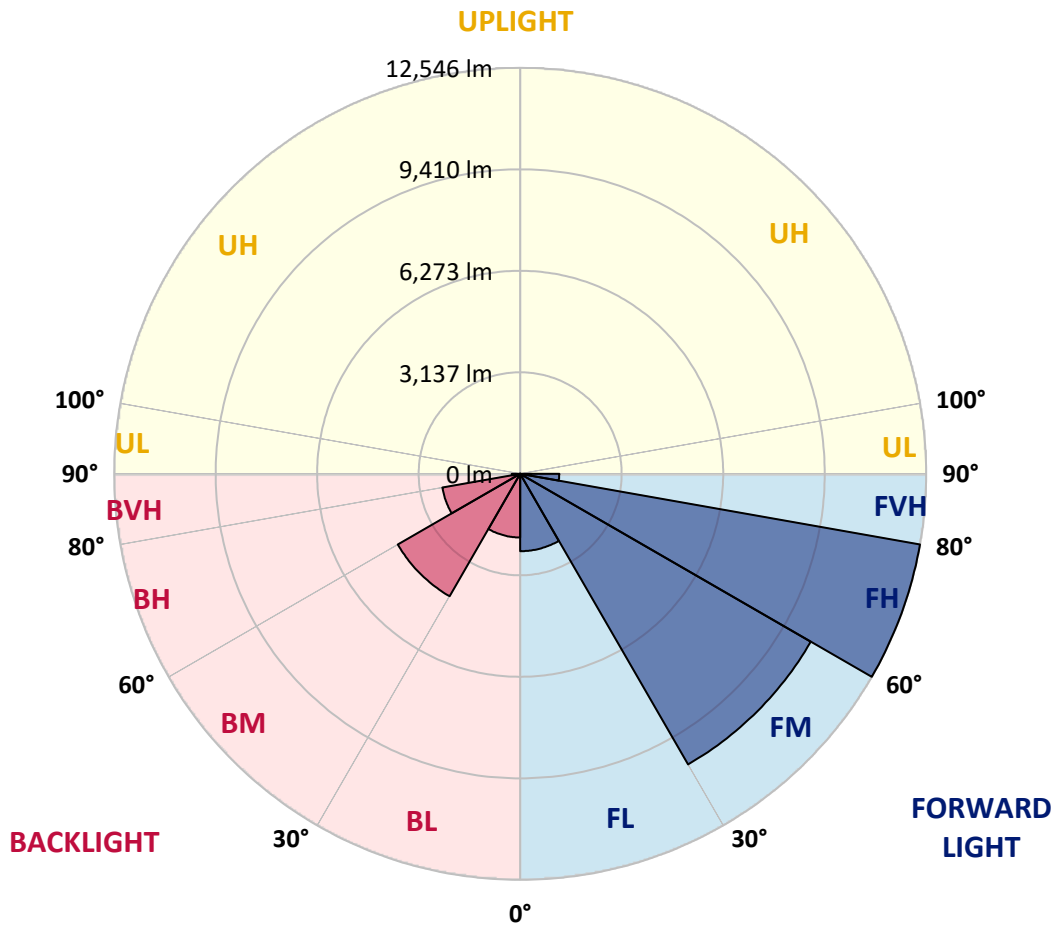
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.3	6.7			
FM (30°-60°)	10369.7	29.2			
FH (60°-80°)	12546.4	35.3			G5
FVH (80°-90°)	1209.0	3.4			G5
BL (0°-30°)	1967.6	5.5	B3/2500		
BM (30°-60°)	4366.5	12.3	B3/5000		
BH (60°-80°)	2442.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	258.6	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°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
2.5°	5257.3	5217.0	5176.7	5133.7	5090.9	5047.8	5004.6	4963.4	4922.1	4882.1
5°	5653.2	5564.0	5474.9	5386.0	5297.3	5207.8	5118.5	5035.0	4951.6	4872.8
7.5°	6050.9	5903.8	5756.9	5621.1	5485.3	5353.0	5220.7	5104.3	4987.8	4880.3
10°	6355.7	6169.8	5983.9	5804.4	5625.0	5464.4	5303.7	5166.0	5027.9	4895.3
12.5°	6542.3	6338.1	6134.0	5930.6	5727.3	5537.8	5348.3	5192.4	5036.5	4897.1
15°	6655.8	6442.9	6230.0	6009.4	5788.8	5570.6	5352.4	5172.0	4991.5	4837.1
17.5°	6719.6	6503.7	6287.8	6047.1	5806.4	5553.2	5299.9	5082.9	4865.8	4684.2
20°	6790.0	6565.6	6341.1	6076.6	5812.0	5505.1	5198.2	4929.2	4660.2	4448.8
22.5°	6871.6	6642.3	6412.9	6116.3	5819.5	5446.2	5072.9	4748.9	4425.0	4184.3
25°	6976.6	6751.9	6527.3	6188.4	5849.2	5388.1	4927.2	4547.7	4168.3	3921.7
27.5°	7119.2	6905.0	6690.5	6300.9	5911.1	5349.3	4787.4	4363.6	3939.9	3715.3
30°	7311.5	7104.4	6897.5	6446.7	5995.9	5331.1	4665.8	4209.8	3753.8	3565.2
32.5°	7538.5	7333.4	7128.6	6598.8	6069.0	5308.5	4547.7	4077.2	3606.5	3454.5
35°	7814.2	7618.0	7421.6	6772.2	6122.7	5266.1	4410.0	3946.8	3483.6	3357.0
37.5°	8278.5	8028.3	7778.0	6966.3	6154.6	5193.5	4232.5	3793.3	3354.2	3243.5
40°	8980.1	8615.5	8250.8	7212.8	6174.7	5093.6	4012.6	3610.3	3207.9	3107.5
42.5°	9910.6	9384.2	8857.8	7535.3	6212.7	4990.4	3768.4	3408.2	3048.0	2955.5
45°	11059.6	10349.6	9639.5	7959.6	6279.7	4894.5	3509.5	3193.6	2877.7	2783.9
47.5°	12496.6	11497.3	10497.8	8411.7	6325.7	4815.4	3305.0	3023.8	2742.6	2621.6
50°	14380.0	12873.5	11366.7	8831.2	6295.7	4729.1	3162.5	2911.1	2659.7	2500.6
52.5°	16542.1	14319.1	12096.1	9103.6	6110.9	4583.3	3055.9	2836.8	2617.9	2435.0
55°	18843.8	15600.7	12357.8	9043.5	5729.1	4341.7	2954.2	2783.0	2611.7	2441.5
57.5°	20937.4	16509.0	12080.7	8621.1	5161.7	4001.0	2840.2	2719.2	2598.2	2448.1
60°	22202.7	16736.0	11269.2	7834.9	4400.6	3558.7	2716.7	2621.6	2526.5	2427.5
62.5°	21560.2	15780.2	10000.3	6771.8	3543.3	3029.3	2515.3	2452.0	2389.0	2376.8
65°	20274.2	14427.9	8581.5	5687.1	2792.9	2553.0	2313.0	2283.2	2253.4	2254.9
67.5°	18551.2	12818.5	7085.8	4624.6	2163.3	2095.2	2027.0	2043.7	2060.2	2056.0
70°	16481.1	11062.4	5643.8	3641.2	1638.6	1658.1	1677.5	1754.8	1831.9	1831.9
72.5°	14014.2	9158.7	4303.4	2783.7	1264.0	1322.7	1381.6	1491.2	1600.6	1618.9
75°	10893.6	6976.4	3059.3	2020.4	981.5	1034.8	1088.0	1210.7	1333.4	1418.2
77.5°	7783.3	4882.9	1982.5	1369.1	755.6	791.8	828.2	947.4	1066.5	1206.2
80°	5094.1	3146.0	1197.8	882.1	566.5	581.5	596.5	697.5	798.2	965.2
82.5°	2961.2	1820.8	680.6	542.5	404.8	407.5	410.5	484.7	559.0	701.6
85°	1302.8	819.0	335.4	290.0	244.8	243.5	242.0	296.4	350.8	456.8
87.5°	403.3	268.3	133.2	120.2	107.3	106.0	104.7	126.8	149.1	193.2
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°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
4837.7	2.5°	4801.7	4765.8	4733.4	4701.1	4672.8	4644.5	4615.9	4587.6	4565.7	4543.5
4794.9	5°	4727.0	4658.9	4601.9	4545.0	4494.8	4444.5	4398.9	4353.1	4318.0	4282.8
4779.5	7.5°	4689.1	4598.9	4523.8	4448.8	4385.6	4322.2	4266.3	4210.6	4168.7	4127.1
4787.0	10°	4691.7	4596.4	4521.4	4446.4	4378.3	4310.0	4247.1	4184.3	4134.4	4084.3
4796.4	12.5°	4718.4	4640.7	4590.8	4541.3	4487.6	4434.4	4369.3	4304.4	4240.6	4176.8
4756.5	15°	4719.1	4682.0	4688.7	4695.5	4681.6	4667.7	4611.3	4554.8	4464.0	4373.2
4634.5	17.5°	4648.2	4661.7	4743.5	4825.3	4868.8	4912.2	4866.6	4821.2	4700.9	4580.7
4435.7	20°	4499.4	4563.2	4705.2	4847.4	4938.4	5029.4	5008.4	4987.2	4849.7	4712.4
4210.0	22.5°	4304.4	4398.7	4560.8	4723.2	4841.6	4960.0	4972.7	4985.3	4854.0	4722.7
3991.1	25°	4099.9	4208.7	4354.4	4500.4	4616.9	4733.4	4776.9	4820.2	4712.6	4605.1
3799.7	27.5°	3904.8	4009.8	4129.7	4249.4	4342.8	4436.2	4484.6	4533.2	4456.5	4380.0
3631.4	30°	3714.7	3798.4	3897.8	3997.3	4074.7	4152.4	4191.8	4231.2	4172.8	4114.3
3484.0	32.5°	3533.3	3582.7	3662.0	3741.6	3815.9	3890.3	3934.0	3977.9	3924.3	3870.4
3344.8	35°	3358.3	3372.0	3432.6	3493.0	3566.5	3640.3	3692.8	3745.3	3707.0	3669.0
3198.9	37.5°	3183.8	3168.8	3212.4	3255.7	3329.0	3402.6	3467.5	3532.4	3514.8	3497.1
3039.0	40°	3005.1	2971.1	3002.4	3033.8	3104.7	3175.6	3250.3	3325.1	3329.4	3333.5
2869.3	42.5°	2824.2	2779.2	2804.7	2830.4	2897.6	2964.9	3045.6	3126.3	3147.8	3169.4
2700.4	45°	2656.5	2612.8	2634.2	2656.0	2719.7	2783.5	2867.2	2950.9	2981.8	3012.8
2549.8	47.5°	2513.0	2476.2	2496.5	2516.6	2579.0	2641.3	2723.9	2806.4	2842.1	2877.7
2417.2	50°	2384.5	2352.1	2383.6	2415.3	2474.2	2532.9	2606.8	2680.7	2726.5	2772.3
2318.3	52.5°	2286.0	2253.9	2301.4	2348.7	2402.7	2456.5	2525.4	2594.4	2648.6	2702.9
2265.8	55°	2214.7	2163.9	2231.2	2298.4	2356.6	2414.7	2475.1	2535.3	2592.7	2650.3
2234.2	57.5°	2160.0	2085.7	2158.1	2230.5	2298.8	2367.1	2426.7	2486.6	2544.5	2602.3
2204.6	60°	2108.4	2011.9	2075.5	2138.9	2217.4	2295.8	2356.4	2417.2	2475.3	2533.5
2170.1	62.5°	2049.7	1929.4	1969.7	2010.1	2101.4	2193.0	2257.7	2322.4	2375.7	2429.0
2097.3	65°	1969.4	1841.2	1856.8	1872.2	1970.1	2068.2	2130.1	2192.0	2238.9	2285.8
1967.5	67.5°	1860.9	1754.4	1749.5	1744.6	1835.0	1925.7	1984.4	2042.9	2083.4	2123.9
1802.8	70°	1727.0	1651.2	1634.3	1617.4	1697.0	1776.5	1827.2	1877.8	1914.4	1951.0
1619.3	72.5°	1567.3	1515.4	1490.6	1466.0	1528.7	1591.2	1636.9	1682.7	1718.6	1754.4
1411.1	75°	1371.1	1331.0	1307.3	1283.5	1330.0	1376.6	1418.0	1459.5	1492.1	1524.8
1202.5	77.5°	1170.4	1138.3	1114.3	1090.3	1128.2	1165.9	1201.5	1237.2	1271.5	1305.7
964.6	80°	937.8	910.8	890.7	870.4	902.0	933.3	963.3	993.3	1019.4	1045.3
709.5	82.5°	696.3	683.2	669.0	654.7	652.1	649.5	638.9	628.4	684.0	739.5
467.1	85°	453.0	439.0	423.0	407.1	393.6	379.9	350.8	321.7	373.7	425.8
206.4	87.5°	200.7	195.1	192.1	189.1	188.5	188.0	165.8	143.5	165.3	187.2
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
4525.7	2.5°	4507.9	4494.0	4480.1	4467.4	4454.4	4438.5	4454.4	4467.4	4480.1	4494.0
4258.2	5°	4233.6	4216.2	4198.7	4185.4	4172.1	4159.0	4172.1	4185.4	4198.7	4216.2
4097.8	7.5°	4068.5	4048.5	4028.6	4016.6	4004.8	3995.8	4004.8	4016.6	4028.6	4048.5
4051.7	10°	4018.6	3999.7	3980.8	3970.6	3960.5	3956.4	3960.5	3970.6	3980.8	3999.7
4134.6	12.5°	4092.4	4071.2	4050.2	4041.5	4032.9	4031.4	4032.9	4041.5	4050.2	4071.2
4309.0	15°	4244.9	4215.4	4186.2	4174.9	4163.7	4162.7	4163.7	4174.9	4186.2	4215.4
4486.1	17.5°	4391.6	4348.1	4304.4	4290.1	4275.6	4273.4	4275.6	4290.1	4304.4	4348.1
4596.4	20°	4480.7	4425.0	4369.1	4351.2	4333.4	4327.8	4333.4	4351.2	4369.1	4425.0
4603.4	22.5°	4483.9	4425.2	4366.3	4346.6	4326.9	4318.4	4326.9	4346.6	4366.3	4425.2
4498.9	25°	4393.1	4342.1	4291.2	4272.6	4254.3	4243.4	4254.3	4272.6	4291.2	4342.1
4297.6	27.5°	4215.2	4181.1	4146.8	4138.3	4129.9	4127.1	4129.9	4138.3	4146.8	4181.1
4055.4	30°	3996.1	3978.7	3961.1	3961.1	3961.1	3963.9	3961.1	3961.1	3961.1	3978.7
3823.4	32.5°	3776.3	3764.8	3753.4	3754.9	3756.6	3759.4	3756.6	3754.9	3753.4	3764.8
3625.4	35°	3582.1	3564.7	3547.4	3543.7	3539.9	3538.0	3539.9	3543.7	3547.4	3564.7
3457.2	37.5°	3417.0	3385.3	3353.8	3337.1	3320.4	3311.0	3320.4	3337.1	3353.8	3385.3
3299.6	40°	3265.6	3219.5	3173.7	3142.6	3111.8	3093.4	3111.8	3142.6	3173.7	3219.5
3140.7	42.5°	3112.2	3055.0	2997.8	2952.5	2907.3	2877.7	2907.3	2952.5	2997.8	3055.0
2986.9	45°	2961.2	2895.7	2830.4	2777.3	2724.2	2690.1	2724.2	2777.3	2830.4	2895.7
2859.7	47.5°	2841.7	2783.5	2725.4	2676.2	2627.3	2594.4	2627.3	2676.2	2725.4	2783.5
2771.1	50°	2770.4	2723.9	2677.3	2631.9	2586.5	2555.0	2586.5	2631.9	2677.3	2723.9
2712.6	52.5°	2722.4	2684.5	2646.6	2605.9	2565.4	2536.3	2565.4	2605.9	2646.6	2684.5
2663.8	55°	2677.3	2644.3	2611.3	2575.7	2540.0	2513.8	2540.0	2575.7	2611.3	2644.3
2616.0	57.5°	2629.7	2596.3	2562.9	2527.6	2492.2	2465.0	2492.2	2527.6	2562.9	2596.3
2548.5	60°	2563.5	2530.8	2498.4	2462.0	2425.6	2397.5	2425.6	2462.0	2498.4	2530.8
2443.4	62.5°	2457.9	2428.4	2399.0	2360.7	2322.4	2288.6	2322.4	2360.7	2399.0	2428.4
2300.7	65°	2315.3	2287.0	2258.6	2221.5	2184.5	2155.5	2184.5	2221.5	2258.6	2287.0
2138.4	67.5°	2152.6	2126.6	2100.7	2066.2	2031.6	2005.4	2031.6	2066.2	2100.7	2126.6
1964.9	70°	1978.7	1957.5	1936.3	1903.3	1870.3	1840.3	1870.3	1903.3	1936.3	1957.5
1770.9	72.5°	1787.4	1769.8	1752.1	1720.6	1689.3	1660.2	1689.3	1720.6	1752.1	1769.8
1542.0	75°	1559.3	1550.7	1542.0	1515.6	1489.1	1461.4	1489.1	1515.6	1542.0	1550.7
1321.8	77.5°	1337.9	1325.9	1313.5	1286.9	1260.3	1238.1	1260.3	1286.9	1313.5	1325.9
1066.7	80°	1088.0	1082.8	1077.7	1041.9	1005.9	964.2	1005.9	1041.9	1077.7	1082.8
775.9	82.5°	812.3	810.0	807.6	777.4	747.0	720.4	747.0	777.4	807.6	810.0
470.9	85°	515.9	512.1	508.4	484.7	461.1	437.1	461.1	484.7	508.4	512.1
205.4	87.5°	223.6	219.1	214.2	202.2	189.8	178.2	189.8	202.2	214.2	219.1
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°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
4507.9	2.5°	4525.7	4543.5	4565.7	4587.6	4615.9	4644.5	4672.8	4701.1	4733.4	4765.8
4233.6	5°	4258.2	4282.8	4318.0	4353.1	4398.9	4444.5	4494.8	4545.0	4601.9	4658.9
4068.5	7.5°	4097.8	4127.1	4168.7	4210.6	4266.3	4322.2	4385.6	4448.8	4523.8	4598.9
4018.6	10°	4051.7	4084.3	4134.4	4184.3	4247.1	4310.0	4378.3	4446.4	4521.4	4596.4
4092.4	12.5°	4134.6	4176.8	4240.6	4304.4	4369.3	4434.4	4487.6	4541.3	4590.8	4640.7
4244.9	15°	4309.0	4373.2	4464.0	4554.8	4611.3	4667.7	4681.6	4695.5	4688.7	4682.0
4391.6	17.5°	4486.1	4580.7	4700.9	4821.2	4866.6	4912.2	4868.8	4825.3	4743.5	4661.7
4480.7	20°	4596.4	4712.4	4849.7	4987.2	5008.4	5029.4	4938.4	4847.4	4705.2	4563.2
4483.9	22.5°	4603.4	4722.7	4854.0	4985.3	4972.7	4960.0	4841.6	4723.2	4560.8	4398.7
4393.1	25°	4498.9	4605.1	4712.6	4820.2	4776.9	4733.4	4616.9	4500.4	4354.4	4208.7
4215.2	27.5°	4297.6	4380.0	4456.5	4533.2	4484.6	4436.2	4342.8	4249.4	4129.7	4009.8
3996.1	30°	4055.4	4114.3	4172.8	4231.2	4191.8	4152.4	4074.7	3997.3	3897.8	3798.4
3776.3	32.5°	3823.4	3870.4	3924.3	3977.9	3934.0	3890.3	3815.9	3741.6	3662.0	3582.7
3582.1	35°	3625.4	3669.0	3707.0	3745.3	3692.8	3640.3	3566.5	3493.0	3432.6	3372.0
3417.0	37.5°	3457.2	3497.1	3514.8	3532.4	3467.5	3402.6	3329.0	3255.7	3212.4	3168.8
3265.6	40°	3299.6	3333.5	3329.4	3325.1	3250.3	3175.6	3104.7	3033.8	3002.4	2971.1
3112.2	42.5°	3140.7	3169.4	3147.8	3126.3	3045.6	2964.9	2897.6	2830.4	2804.7	2779.2
2961.2	45°	2986.9	3012.8	2981.8	2950.9	2867.2	2783.5	2719.7	2656.0	2634.2	2612.8
2841.7	47.5°	2859.7	2877.7	2842.1	2806.4	2723.9	2641.3	2579.0	2516.6	2496.5	2476.2
2770.4	50°	2771.1	2772.3	2726.5	2680.7	2606.8	2532.9	2474.2	2415.3	2383.6	2352.1
2722.4	52.5°	2712.6	2702.9	2648.6	2594.4	2525.4	2456.5	2402.7	2348.7	2301.4	2253.9
2677.3	55°	2663.8	2650.3	2592.7	2535.3	2475.1	2414.7	2356.6	2298.4	2231.2	2163.9
2629.7	57.5°	2616.0	2602.3	2544.5	2486.6	2426.7	2367.1	2298.8	2230.5	2158.1	2085.7
2563.5	60°	2548.5	2533.5	2475.3	2417.2	2356.4	2295.8	2217.4	2138.9	2075.5	2011.9
2457.9	62.5°	2443.4	2429.0	2375.7	2322.4	2257.7	2193.0	2101.4	2010.1	1969.7	1929.4
2315.3	65°	2300.7	2285.8	2238.9	2192.0	2130.1	2068.2	1970.1	1872.2	1856.8	1841.2
2152.6	67.5°	2138.4	2123.9	2083.4	2042.9	1984.4	1925.7	1835.0	1744.6	1749.5	1754.4
1978.7	70°	1964.9	1951.0	1914.4	1877.8	1827.2	1776.5	1697.0	1617.4	1634.3	1651.2
1787.4	72.5°	1770.9	1754.4	1718.6	1682.7	1636.9	1591.2	1528.7	1466.0	1490.6	1515.4
1559.3	75°	1542.0	1524.8	1492.1	1459.5	1418.0	1376.6	1330.0	1283.5	1307.3	1331.0
1337.9	77.5°	1321.8	1305.7	1271.5	1237.2	1201.5	1165.9	1128.2	1090.3	1114.3	1138.3
1088.0	80°	1066.7	1045.3	1019.4	993.3	963.3	933.3	902.0	870.4	890.7	910.8
812.3	82.5°	775.9	739.5	684.0	628.4	638.9	649.5	652.1	654.7	669.0	683.2
515.9	85°	470.9	425.8	373.7	321.7	350.8	379.9	393.6	407.1	423.0	439.0
223.6	87.5°	205.4	187.2	165.3	143.5	165.8	188.0	188.5	189.1	192.1	195.1
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°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
4801.7	2.5°	4837.7	4882.1	4922.1	4963.4	5004.6	5047.8	5090.9	5133.7	5176.7	5217.0
4727.0	5°	4794.9	4872.8	4951.6	5035.0	5118.5	5207.8	5297.3	5386.0	5474.9	5564.0
4689.1	7.5°	4779.5	4880.3	4987.8	5104.3	5220.7	5353.0	5485.3	5621.1	5756.9	5903.8
4691.7	10°	4787.0	4895.3	5027.9	5166.0	5303.7	5464.4	5625.0	5804.4	5983.9	6169.8
4718.4	12.5°	4796.4	4897.1	5036.5	5192.4	5348.3	5537.8	5727.3	5930.6	6134.0	6338.1
4719.1	15°	4756.5	4837.1	4991.5	5172.0	5352.4	5570.6	5788.8	6009.4	6230.0	6442.9
4648.2	17.5°	4634.5	4684.2	4865.8	5082.9	5299.9	5553.2	5806.4	6047.1	6287.8	6503.7
4499.4	20°	4435.7	4448.8	4660.2	4929.2	5198.2	5505.1	5812.0	6076.6	6341.1	6565.6
4304.4	22.5°	4210.0	4184.3	4425.0	4748.9	5072.9	5446.2	5819.5	6116.3	6412.9	6642.3
4099.9	25°	3991.1	3921.7	4168.3	4547.7	4927.2	5388.1	5849.2	6188.4	6527.3	6751.9
3904.8	27.5°	3799.7	3715.3	3939.9	4363.6	4787.4	5349.3	5911.1	6300.9	6690.5	6905.0
3714.7	30°	3631.4	3565.2	3753.8	4209.8	4665.8	5331.1	5995.9	6446.7	6897.5	7104.4
3533.3	32.5°	3484.0	3454.5	3606.5	4077.2	4547.7	5308.5	6069.0	6598.8	7128.6	7333.4
3358.3	35°	3344.8	3357.0	3483.6	3946.8	4410.0	5266.1	6122.7	6772.2	7421.6	7618.0
3183.8	37.5°	3198.9	3243.5	3354.2	3793.3	4232.5	5193.5	6154.6	6966.3	7778.0	8028.3
3005.1	40°	3039.0	3107.5	3207.9	3610.3	4012.6	5093.6	6174.7	7212.8	8250.8	8615.5
2824.2	42.5°	2869.3	2955.5	3048.0	3408.2	3768.4	4990.4	6212.7	7535.3	8857.8	9384.2
2656.5	45°	2700.4	2783.9	2877.7	3193.6	3509.5	4894.5	6279.7	7959.6	9639.5	10349.6
2513.0	47.5°	2549.8	2621.6	2742.6	3023.8	3305.0	4815.4	6325.7	8411.7	10497.8	11497.3
2384.5	50°	2417.2	2500.6	2659.7	2911.1	3162.5	4729.1	6295.7	8831.2	11366.7	12873.5
2286.0	52.5°	2318.3	2435.0	2617.9	2836.8	3055.9	4583.3	6110.9	9103.6	12096.1	14319.1
2214.7	55°	2265.8	2441.5	2611.7	2783.0	2954.2	4341.7	5729.1	9043.5	12357.8	15600.7
2160.0	57.5°	2234.2	2448.1	2598.2	2719.2	2840.2	4001.0	5161.7	8621.1	12080.7	16509.0
2108.4	60°	2204.6	2427.5	2526.5	2621.6	2716.7	3558.7	4400.6	7834.9	11269.2	16736.0
2049.7	62.5°	2170.1	2376.8	2389.0	2452.0	2515.3	3029.3	3543.3	6771.8	10000.3	15780.2
1969.4	65°	2097.3	2254.9	2253.4	2283.2	2313.0	2553.0	2792.9	5687.1	8581.5	14427.9
1860.9	67.5°	1967.5	2056.0	2060.2	2043.7	2027.0	2095.2	2163.3	4624.6	7085.8	12818.5
1727.0	70°	1802.8	1831.9	1831.9	1754.8	1677.5	1658.1	1638.6	3641.2	5643.8	11062.4
1567.3	72.5°	1619.3	1618.9	1600.6	1491.2	1381.6	1322.7	1264.0	2783.7	4303.4	9158.7
1371.1	75°	1411.1	1418.2	1333.4	1210.7	1088.0	1034.8	981.5	2020.4	3059.3	6976.4
1170.4	77.5°	1202.5	1206.2	1066.5	947.4	828.2	791.8	755.6	1369.1	1982.5	4882.9
937.8	80°	964.6	965.2	798.2	697.5	596.5	581.5	566.5	882.1	1197.8	3146.0
696.3	82.5°	709.5	701.6	559.0	484.7	410.5	407.5	404.8	542.5	680.6	1820.8
453.0	85°	467.1	456.8	350.8	296.4	242.0	243.5	244.8	290.0	335.4	819.0
200.7	87.5°	206.4	193.2	149.1	126.8	104.7	106.0	107.3	120.2	133.2	268.3
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°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
5257.3	2.5°	5277.2	5297.3	5325.6	5353.9	5370.8	5387.7	5396.1	5404.6	5400.8	5404.6
5653.2	5°	5722.8	5792.5	5861.6	5930.8	5968.3	6005.8	6028.5	6051.4	6068.7	6051.4
6050.9	7.5°	6164.2	6277.3	6379.1	6481.0	6542.3	6603.7	6636.9	6669.9	6685.9	6669.9
6355.7	10°	6489.6	6623.6	6743.1	6862.6	6935.0	7007.0	7039.3	7071.4	7083.6	7071.4
6542.3	12.5°	6687.5	6832.6	6940.6	7048.3	7100.8	7153.3	7171.0	7188.6	7190.5	7188.6
6655.8	15°	6781.2	6906.3	6974.0	7041.9	7043.8	7045.7	7026.9	7008.1	6986.0	7008.1
6719.6	17.5°	6804.2	6888.8	6890.1	6891.3	6815.3	6739.3	6669.7	6599.9	6550.8	6599.9
6790.0	20°	6819.4	6849.1	6760.0	6670.9	6503.1	6335.4	6213.3	6091.2	6016.1	6091.2
6871.6	22.5°	6832.9	6794.3	6609.7	6425.1	6178.4	5931.7	5779.0	5626.3	5543.4	5626.3
6976.6	25°	6854.7	6732.8	6452.5	6172.2	5872.6	5573.1	5412.5	5252.3	5173.8	5252.3
7119.2	27.5°	6901.2	6683.0	6311.8	5940.7	5608.7	5276.7	5118.7	4960.9	4886.8	4960.9
7311.5	30°	6986.4	6661.5	6204.5	5747.5	5401.6	5055.7	4909.2	4762.6	4693.6	4762.6
7538.5	32.5°	7093.3	6648.3	6131.3	5614.3	5289.2	4964.1	4849.1	4733.9	4684.2	4733.9
7814.2	35°	7269.5	6724.9	6186.1	5647.5	5421.7	5196.0	5169.2	5142.3	5138.2	5142.3
8278.5	37.5°	7637.7	6996.9	6507.3	6017.6	6003.0	5988.4	6111.1	6233.8	6297.5	6233.8
8980.1	40°	8283.2	7586.3	7222.2	6858.1	7115.1	7372.1	7670.4	7968.6	8117.2	7968.6
9910.6	42.5°	9219.1	8527.7	8317.9	8108.2	8668.7	9229.3	9771.8	10314.3	10632.8	10314.3
11059.6	45°	10438.5	9817.2	9724.7	9632.0	10530.0	11428.2	12319.7	13211.3	13752.5	13211.3
12496.6	47.5°	11892.3	11287.9	11269.2	11250.4	12545.9	13841.1	15146.2	16451.1	17217.4	16451.1
14380.0	50°	13633.6	12887.3	12890.5	12893.7	14563.3	16232.9	17955.6	19678.3	20719.8	19678.3
16542.1	52.5°	15638.2	14734.6	14643.2	14551.7	16546.0	18540.3	20671.8	22803.0	24051.5	22803.0
18843.8	55°	17950.9	17057.9	16701.7	16345.5	18565.1	20784.5	23325.5	25866.4	27351.2	25866.4
20937.4	57.5°	20451.2	19964.7	19250.2	18535.8	20777.0	23018.2	25896.3	28774.1	30615.4	28774.1
22202.7	60°	22958.0	23713.4	22826.1	21938.8	24059.7	26180.7	29262.1	32343.5	34333.5	32343.5
21560.2	62.5°	23623.9	25687.7	25587.7	25487.5	27430.4	29373.5	32305.2	35236.8	37076.1	35236.8
20274.2	65°	22211.2	24148.1	24531.3	24914.4	27383.5	29852.8	32695.6	35538.2	37104.3	35538.2
18551.2	67.5°	20393.4	22235.5	22415.3	22594.8	25167.5	27739.9	30594.9	33449.9	34676.8	33449.9
16481.1	70°	18484.8	20488.7	20569.0	20649.4	22950.1	25250.6	27707.5	30164.2	30846.1	30164.2
14014.2	72.5°	16313.6	18613.1	18670.9	18728.5	20528.4	22328.4	24168.5	26008.4	26077.5	26008.4
10893.6	75°	13273.4	15653.2	15866.9	16080.6	17481.0	18881.4	20176.7	21472.0	21125.0	21472.0
7783.3	77.5°	10004.8	12226.5	12532.2	12838.0	13902.6	14967.2	15885.9	16804.7	16208.1	16804.7
5094.1	80°	6963.1	8831.9	9212.0	9592.1	10396.1	11199.8	11682.2	12164.5	11205.0	12164.5
2961.2	82.5°	4238.9	5516.8	5941.3	6366.0	6919.4	7472.8	7674.1	7875.2	7121.1	7875.2
1302.8	85°	1981.0	2659.1	3020.3	3381.4	3836.1	4290.7	4404.9	4519.1	3915.1	4519.1
403.3	87.5°	631.3	859.2	1060.7	1262.1	1489.5	1716.9	1726.6	1736.2	1457.6	1736.2
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°
4888.7	0°	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7	4888.7
5396.1	2.5°	5387.7	5370.8	5353.9	5325.6	5297.3	5277.2	5257.3
6028.5	5°	6005.8	5968.3	5930.8	5861.6	5792.5	5722.8	5653.2
6636.9	7.5°	6603.7	6542.3	6481.0	6379.1	6277.3	6164.2	6050.9
7039.3	10°	7007.0	6935.0	6862.6	6743.1	6623.6	6489.6	6355.7
7171.0	12.5°	7153.3	7100.8	7048.3	6940.6	6832.6	6687.5	6542.3
7026.9	15°	7045.7	7043.8	7041.9	6974.0	6906.3	6781.2	6655.8
6669.7	17.5°	6739.3	6815.3	6891.3	6890.1	6888.8	6804.2	6719.6
6213.3	20°	6335.4	6503.1	6670.9	6760.0	6849.1	6819.4	6790.0
5779.0	22.5°	5931.7	6178.4	6425.1	6609.7	6794.3	6832.9	6871.6
5412.5	25°	5573.1	5872.6	6172.2	6452.5	6732.8	6854.7	6976.6
5118.7	27.5°	5276.7	5608.7	5940.7	6311.8	6683.0	6901.2	7119.2
4909.2	30°	5055.7	5401.6	5747.5	6204.5	6661.5	6986.4	7311.5
4849.1	32.5°	4964.1	5289.2	5614.3	6131.3	6648.3	7093.3	7538.5
5169.2	35°	5196.0	5421.7	5647.5	6186.1	6724.9	7269.5	7814.2
6111.1	37.5°	5988.4	6003.0	6017.6	6507.3	6996.9	7637.7	8278.5
7670.4	40°	7372.1	7115.1	6858.1	7222.2	7586.3	8283.2	8980.1
9771.8	42.5°	9229.3	8668.7	8108.2	8317.9	8527.7	9219.1	9910.6
12319.7	45°	11428.2	10530.0	9632.0	9724.7	9817.2	10438.5	11059.6
15146.2	47.5°	13841.1	12545.9	11250.4	11269.2	11287.9	11892.3	12496.6
17955.6	50°	16232.9	14563.3	12893.7	12890.5	12887.3	13633.6	14380.0
20671.8	52.5°	18540.3	16546.0	14551.7	14643.2	14734.6	15638.2	16542.1
23325.5	55°	20784.5	18565.1	16345.5	16701.7	17057.9	17950.9	18843.8
25896.3	57.5°	23018.2	20777.0	18535.8	19250.2	19964.7	20451.2	20937.4
29262.1	60°	26180.7	24059.7	21938.8	22826.1	23713.4	22958.0	22202.7
32305.2	62.5°	29373.5	27430.4	25487.5	25587.7	25687.7	23623.9	21560.2
32695.6	65°	29852.8	27383.5	24914.4	24531.3	24148.1	22211.2	20274.2
30594.9	67.5°	27739.9	25167.5	22594.8	22415.3	22235.5	20393.4	18551.2
27707.5	70°	25250.6	22950.1	20649.4	20569.0	20488.7	18484.8	16481.1
24168.5	72.5°	22328.4	20528.4	18728.5	18670.9	18613.1	16313.6	14014.2
20176.7	75°	18881.4	17481.0	16080.6	15866.9	15653.2	13273.4	10893.6
15885.9	77.5°	14967.2	13902.6	12838.0	12532.2	12226.5	10004.8	7783.3
11682.2	80°	11199.8	10396.1	9592.1	9212.0	8831.9	6963.1	5094.1
7674.1	82.5°	7472.8	6919.4	6366.0	5941.3	5516.8	4238.9	2961.2
4404.9	85°	4290.7	3836.1	3381.4	3020.3	2659.1	1981.0	1302.8
1726.6	87.5°	1716.9	1489.5	1262.1	1060.7	859.2	631.3	403.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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