

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: P956581

Luminaire Tested: **GALN-SB9A-940-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956581
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-SB9A-940-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29501 lumens
Efficiency: N/A
Efficacy: 115.5 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

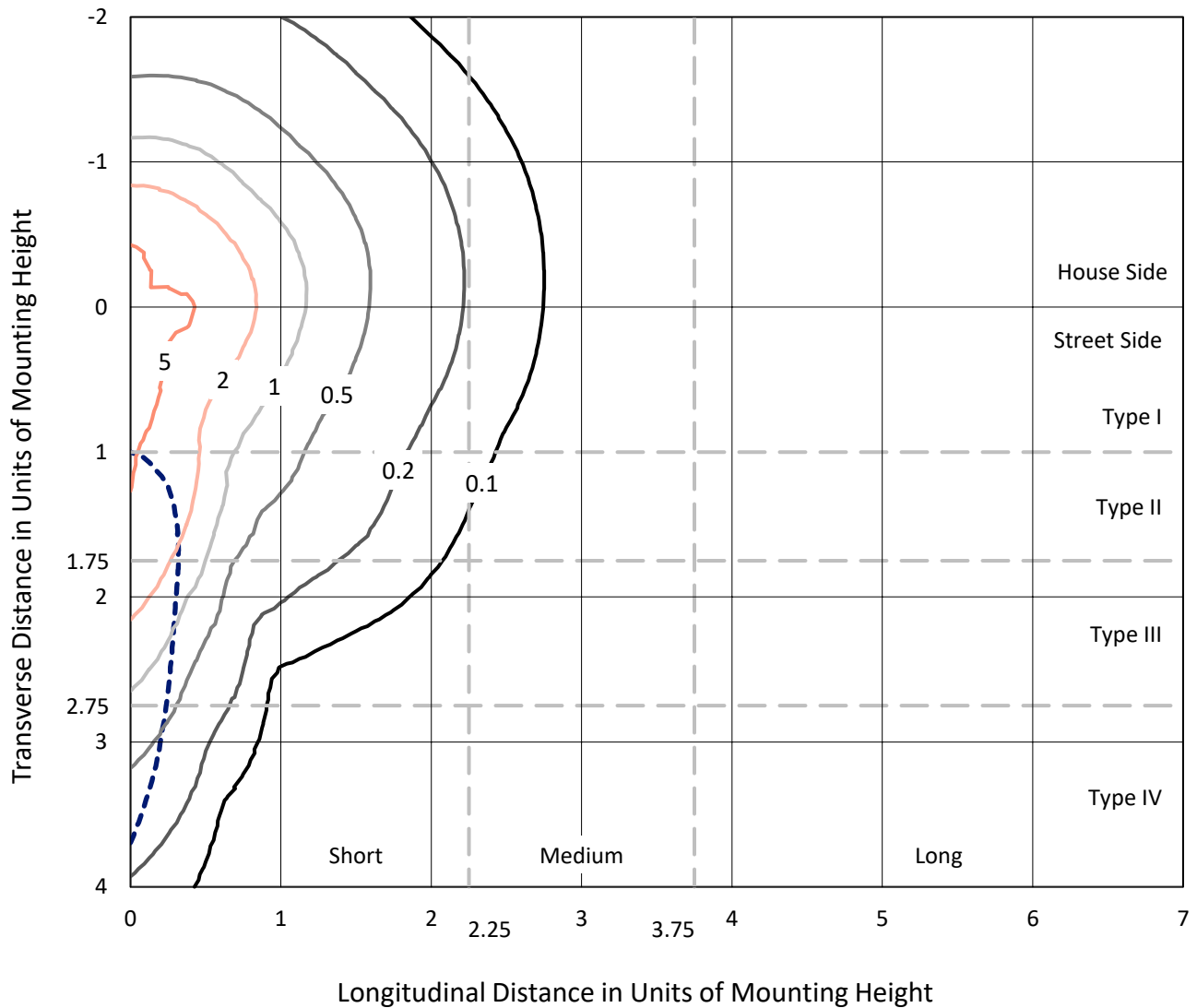
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

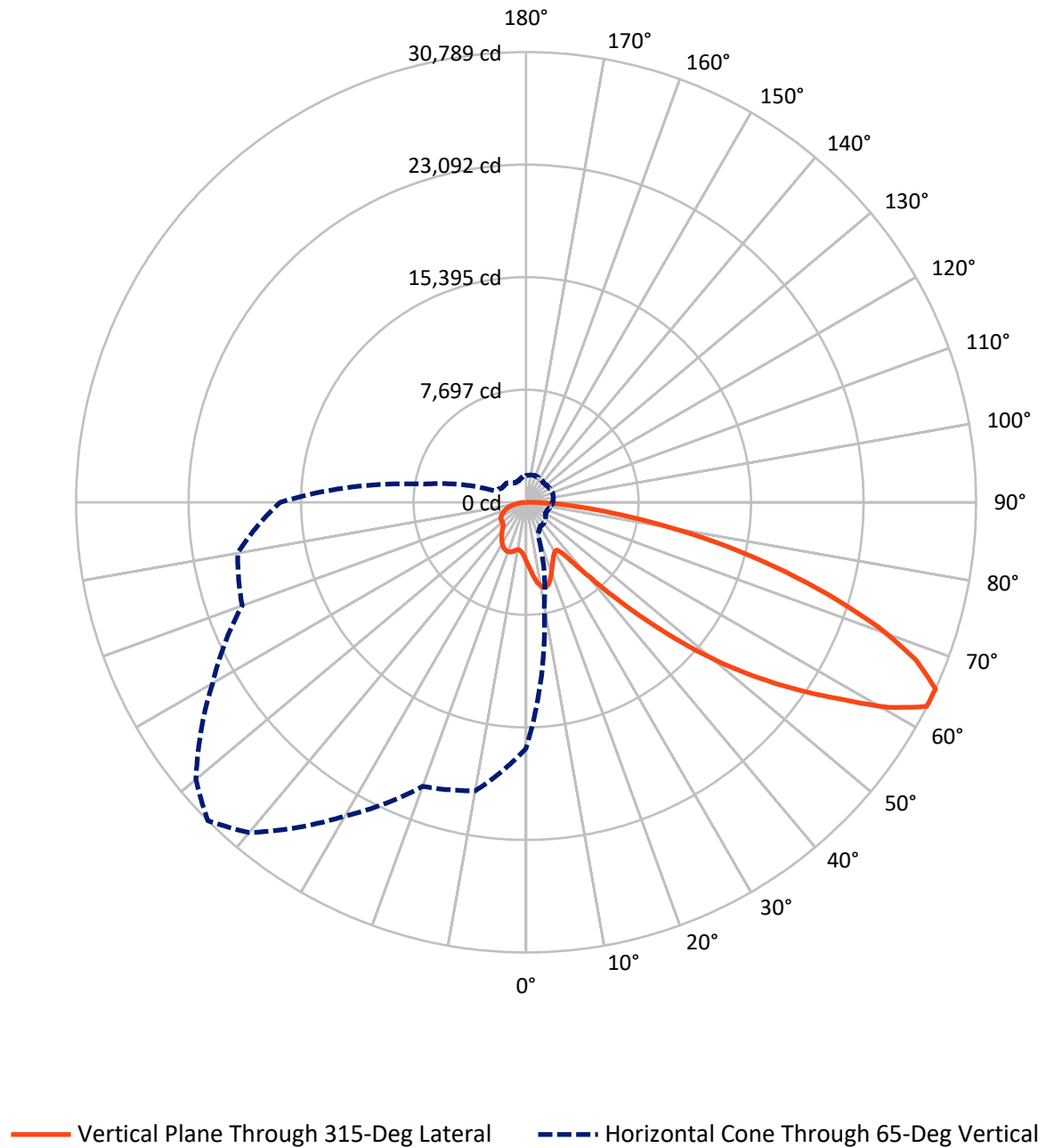
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	7497.7	0.0	7497.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	22003.3	0.0	22003.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	29501.0	0.0	29501.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.4	1.4
10°-20°	1263.3	4.3
20°-30°	1951.3	6.6
30°-40°	2472.8	8.4
40°-50°	3729.6	12.6
50°-60°	6025.7	20.4
60°-70°	7512.0	25.5
70°-80°	4926.0	16.7
80°-90°	1217.8	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°	29501.0	100.0
0°-180°	29501.0	100.0



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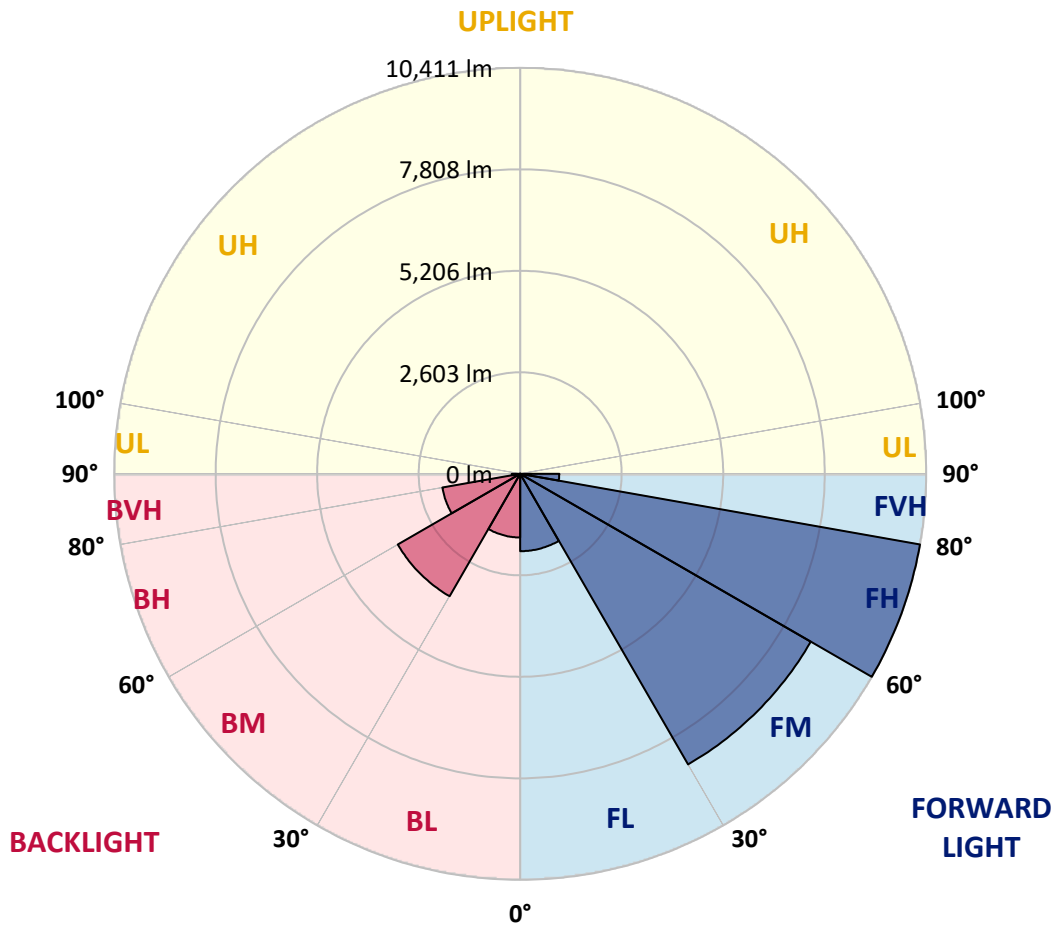
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1984.3	6.7			
FM (30°-60°)	8604.8	29.2			
FH (60°-80°)	10411.0	35.3			G4/12000
FVH (80°-90°)	1003.2	3.4			G5
BL (0°-30°)	1632.7	5.5	B3/2500		
BM (30°-60°)	3623.3	12.3	B3/5000		
BH (60°-80°)	2027.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	214.6	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°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
2.5°	4362.5	4329.1	4295.6	4259.9	4224.4	4188.6	4152.8	4118.6	4084.4	4051.2
5°	4691.0	4617.0	4543.1	4469.3	4395.7	4321.4	4247.3	4178.1	4108.8	4043.4
7.5°	5021.0	4898.9	4777.1	4664.4	4551.7	4441.9	4332.2	4235.5	4138.8	4049.6
10°	5273.9	5119.7	4965.4	4816.4	4667.6	4534.4	4401.0	4286.7	4172.1	4062.1
12.5°	5428.8	5259.3	5089.9	4921.2	4752.5	4595.2	4438.0	4308.7	4179.3	4063.6
15°	5523.0	5346.3	5169.6	4986.6	4803.5	4622.5	4441.4	4291.7	4141.9	4013.8
17.5°	5575.9	5396.8	5217.6	5017.9	4818.2	4608.0	4397.9	4217.8	4037.7	3887.0
20°	5634.3	5448.1	5261.8	5042.3	4822.8	4568.2	4313.5	4090.3	3867.0	3691.6
22.5°	5702.0	5511.8	5321.4	5075.3	4829.1	4519.3	4209.5	3940.7	3671.8	3472.1
25°	5789.2	5602.7	5416.4	5135.1	4853.6	4471.0	4088.6	3773.6	3458.9	3254.2
27.5°	5907.5	5729.7	5551.8	5228.5	4905.0	4438.8	3972.6	3620.9	3269.3	3083.0
30°	6067.1	5895.2	5723.5	5349.4	4975.4	4423.7	3871.7	3493.3	3114.9	2958.4
32.5°	6255.4	6085.3	5915.3	5475.7	5036.1	4405.0	3773.6	3383.2	2992.7	2866.6
35°	6484.2	6321.4	6158.4	5619.5	5080.6	4369.8	3659.4	3275.0	2890.7	2785.6
37.5°	6869.5	6661.9	6454.2	5780.6	5107.1	4309.6	3512.1	3147.7	2783.3	2691.5
40°	7451.7	7149.1	6846.5	5985.2	5123.7	4226.6	3329.7	2995.8	2661.9	2578.6
42.5°	8223.8	7787.0	7350.2	6252.8	5155.3	4141.0	3127.0	2828.1	2529.3	2452.5
45°	9177.3	8588.1	7998.9	6604.9	5210.9	4061.5	2912.2	2650.0	2387.9	2310.1
47.5°	10369.7	9540.4	8711.0	6980.0	5249.0	3995.8	2742.5	2509.2	2275.8	2175.4
50°	11932.5	10682.4	9432.1	7328.1	5224.1	3924.2	2624.2	2415.6	2207.0	2075.0
52.5°	13726.6	11881.9	10037.3	7554.1	5070.8	3803.2	2535.8	2354.0	2172.3	2020.5
55°	15636.6	12945.4	10254.5	7504.3	4754.0	3602.7	2451.4	2309.3	2167.2	2026.0
57.5°	17373.8	13699.2	10024.5	7153.8	4283.1	3320.0	2356.8	2256.4	2156.0	2031.4
60°	18423.8	13887.5	9351.1	6501.4	3651.6	2953.0	2254.3	2175.4	2096.5	2014.3
62.5°	17890.6	13094.4	8298.2	5619.2	2940.2	2513.7	2087.2	2034.7	1982.4	1972.3
65°	16823.5	11972.2	7120.9	4719.2	2317.5	2118.5	1919.4	1894.6	1869.9	1871.1
67.5°	15393.8	10636.8	5879.8	3837.5	1795.1	1738.6	1682.0	1695.8	1709.5	1706.1
70°	13676.0	9179.6	4683.2	3021.5	1359.7	1375.9	1392.0	1456.1	1520.1	1520.1
72.5°	11629.0	7599.9	3571.0	2309.9	1048.9	1097.6	1146.5	1237.4	1328.1	1343.4
75°	9039.5	5789.0	2538.6	1676.5	814.4	858.7	902.9	1004.7	1106.5	1176.8
77.5°	6458.6	4051.8	1645.1	1136.0	627.0	657.1	687.3	786.1	885.0	1000.9
80°	4227.1	2610.5	993.9	731.9	470.1	482.6	495.0	578.8	662.4	800.9
82.5°	2457.2	1510.9	564.8	450.2	335.9	338.1	340.6	402.2	463.9	582.2
85°	1081.1	679.6	278.3	240.7	203.1	202.1	200.8	246.0	291.1	379.0
87.5°	334.7	222.6	110.5	99.8	89.0	88.0	86.9	105.2	123.8	160.3
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°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
4014.3	2.5°	3984.4	3954.7	3927.8	3901.0	3877.5	3854.0	3830.3	3806.8	3788.6	3770.2
3978.8	5°	3922.5	3866.0	3818.6	3771.5	3729.7	3688.0	3650.2	3612.2	3583.1	3553.8
3966.0	7.5°	3891.0	3816.1	3753.9	3691.6	3639.1	3586.5	3540.1	3493.9	3459.2	3424.6
3972.3	10°	3893.2	3814.1	3751.8	3689.6	3633.1	3576.4	3524.3	3472.1	3430.7	3389.1
3980.1	12.5°	3915.3	3850.9	3809.4	3768.3	3723.8	3679.6	3625.6	3571.7	3518.8	3465.9
3946.9	15°	3915.9	3885.1	3890.7	3896.3	3884.8	3873.3	3826.4	3779.6	3704.2	3628.9
3845.7	17.5°	3857.1	3868.3	3936.2	4004.0	4040.1	4076.1	4038.3	4000.6	3900.8	3801.0
3680.7	20°	3733.6	3786.6	3904.4	4022.4	4097.9	4173.4	4156.0	4138.4	4024.3	3910.3
3493.4	22.5°	3571.7	3650.0	3784.5	3919.3	4017.6	4115.8	4126.4	4136.8	4027.8	3918.9
3311.8	25°	3402.1	3492.4	3613.3	3734.4	3831.1	3927.8	3963.9	3999.8	3910.5	3821.3
3153.0	27.5°	3240.2	3327.3	3426.8	3526.1	3603.7	3681.2	3721.3	3761.7	3698.0	3634.5
3013.4	30°	3082.5	3151.9	3234.4	3316.9	3381.2	3445.7	3478.3	3511.0	3462.6	3414.1
2891.0	32.5°	2932.0	2972.9	3038.7	3104.7	3166.4	3228.2	3264.5	3300.9	3256.4	3211.7
2775.5	35°	2786.7	2798.1	2848.4	2898.5	2959.5	3020.7	3064.3	3107.9	3076.1	3044.5
2654.4	37.5°	2642.0	2629.5	2665.6	2701.6	2762.4	2823.5	2877.3	2931.2	2916.5	2901.9
2521.8	40°	2493.6	2465.4	2491.4	2517.4	2576.3	2635.1	2697.1	2759.2	2762.8	2766.2
2380.9	42.5°	2343.5	2306.2	2327.4	2348.7	2404.4	2460.3	2527.2	2594.2	2612.1	2630.0
2240.8	45°	2204.4	2168.1	2185.9	2203.9	2256.8	2309.8	2379.2	2448.6	2474.3	2500.0
2115.8	47.5°	2085.3	2054.8	2071.6	2088.3	2140.1	2191.8	2260.3	2328.8	2358.3	2387.9
2005.7	50°	1978.7	1951.7	1977.9	2004.2	2053.1	2101.8	2163.1	2224.5	2262.4	2300.4
1923.7	52.5°	1896.9	1870.3	1909.7	1948.9	1993.8	2038.4	2095.6	2152.9	2197.8	2242.8
1880.1	55°	1837.8	1795.6	1851.5	1907.2	1955.5	2003.7	2053.8	2103.8	2151.5	2199.2
1854.0	57.5°	1792.3	1730.7	1790.8	1850.9	1907.5	1964.2	2013.7	2063.3	2111.4	2159.4
1829.4	60°	1749.5	1669.5	1722.3	1774.9	1840.0	1905.0	1955.3	2005.7	2054.0	2102.3
1800.7	62.5°	1700.8	1601.0	1634.5	1668.0	1743.8	1819.7	1873.4	1927.1	1971.3	2015.6
1740.3	65°	1634.2	1527.9	1540.8	1553.5	1634.8	1716.2	1767.6	1819.0	1857.9	1896.8
1632.6	67.5°	1544.2	1455.8	1451.7	1447.7	1522.7	1597.9	1646.6	1695.2	1728.8	1762.4
1495.9	70°	1433.1	1370.2	1356.2	1342.1	1408.1	1474.2	1516.2	1558.2	1588.6	1618.9
1343.7	72.5°	1300.6	1257.5	1236.9	1216.5	1268.5	1320.4	1358.3	1396.3	1426.1	1455.8
1170.9	75°	1137.8	1104.4	1084.8	1065.1	1103.7	1142.3	1176.7	1211.1	1238.2	1265.2
997.8	77.5°	971.2	944.6	924.7	904.7	936.2	967.5	997.0	1026.6	1055.1	1083.4
800.4	80°	778.2	755.8	739.1	722.3	748.4	774.4	799.3	824.2	845.9	867.4
588.7	82.5°	577.8	566.9	555.1	543.3	541.1	538.9	530.2	521.5	567.6	613.6
387.6	85°	375.9	364.3	351.0	337.8	326.6	315.2	291.1	267.0	310.1	353.4
171.2	87.5°	166.6	161.9	159.4	156.9	156.4	156.0	137.6	119.1	137.1	155.4
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
3755.4	2.5°	3740.6	3729.1	3717.6	3707.0	3696.3	3683.0	3696.3	3707.0	3717.6	3729.1
3533.5	5°	3513.1	3498.6	3484.1	3473.1	3462.0	3451.1	3462.0	3473.1	3484.1	3498.6
3400.4	7.5°	3376.1	3359.4	3342.9	3333.0	3323.1	3315.7	3323.1	3333.0	3342.9	3359.4
3362.1	10°	3334.7	3318.9	3303.2	3294.8	3286.4	3283.0	3286.4	3294.8	3303.2	3318.9
3430.9	12.5°	3395.8	3378.3	3360.8	3353.7	3346.5	3345.3	3346.5	3353.7	3360.8	3378.3
3575.6	15°	3522.4	3498.0	3473.7	3464.3	3455.0	3454.2	3455.0	3464.3	3473.7	3498.0
3722.6	17.5°	3644.1	3608.0	3571.7	3559.9	3547.9	3546.1	3547.9	3559.9	3571.7	3608.0
3814.1	20°	3718.1	3671.8	3625.4	3610.7	3595.9	3591.2	3595.9	3610.7	3625.4	3671.8
3819.9	22.5°	3720.7	3672.0	3623.1	3606.8	3590.4	3583.4	3590.4	3606.8	3623.1	3672.0
3733.2	25°	3645.4	3603.0	3560.8	3545.4	3530.2	3521.2	3530.2	3545.4	3560.8	3603.0
3566.1	27.5°	3497.8	3469.5	3441.0	3434.0	3427.0	3424.6	3427.0	3434.0	3441.0	3469.5
3365.2	30°	3316.0	3301.5	3286.9	3286.9	3286.9	3289.2	3286.9	3286.9	3286.9	3301.5
3172.6	32.5°	3133.5	3124.0	3114.6	3115.8	3117.2	3119.5	3117.2	3115.8	3114.6	3124.0
3008.4	35°	2972.4	2958.0	2943.6	2940.5	2937.4	2935.9	2937.4	2940.5	2943.6	2958.0
2868.8	37.5°	2835.4	2809.1	2783.0	2769.1	2755.3	2747.5	2755.3	2769.1	2783.0	2809.1
2738.0	40°	2709.8	2671.5	2633.5	2607.7	2582.2	2566.9	2582.2	2607.7	2633.5	2671.5
2606.2	42.5°	2582.5	2535.0	2487.5	2450.0	2412.5	2387.9	2412.5	2450.0	2487.5	2535.0
2478.5	45°	2457.2	2402.9	2348.7	2304.6	2260.6	2232.2	2260.6	2304.6	2348.7	2402.9
2373.0	47.5°	2358.0	2309.8	2261.5	2220.7	2180.1	2152.9	2180.1	2220.7	2261.5	2309.8
2299.5	50°	2298.9	2260.3	2221.7	2184.0	2146.3	2120.2	2146.3	2184.0	2221.7	2260.3
2250.9	52.5°	2259.0	2227.6	2196.1	2162.3	2128.7	2104.6	2128.7	2162.3	2196.1	2227.6
2210.4	55°	2221.7	2194.3	2166.9	2137.3	2107.7	2085.9	2107.7	2137.3	2166.9	2194.3
2170.8	57.5°	2182.1	2154.4	2126.7	2097.4	2068.0	2045.4	2068.0	2097.4	2126.7	2154.4
2114.7	60°	2127.2	2100.1	2073.2	2043.0	2012.8	1989.4	2012.8	2043.0	2073.2	2100.1
2027.5	62.5°	2039.5	2015.1	1990.6	1958.9	1927.1	1899.1	1927.1	1958.9	1990.6	2015.1
1909.1	65°	1921.2	1897.7	1874.2	1843.4	1812.7	1788.6	1812.7	1843.4	1874.2	1897.7
1774.4	67.5°	1786.3	1764.6	1743.1	1714.5	1685.9	1664.1	1685.9	1714.5	1743.1	1764.6
1630.4	70°	1642.0	1624.4	1606.8	1579.4	1552.0	1527.1	1552.0	1579.4	1606.8	1624.4
1469.5	72.5°	1483.2	1468.5	1453.9	1427.8	1401.8	1377.6	1401.8	1427.8	1453.9	1468.5
1279.6	75°	1293.9	1286.7	1279.6	1257.6	1235.7	1212.6	1235.7	1257.6	1279.6	1286.7
1096.8	77.5°	1110.2	1100.2	1090.0	1067.9	1045.8	1027.4	1045.8	1067.9	1090.0	1100.2
885.1	80°	902.9	898.5	894.3	864.6	834.7	800.1	834.7	864.6	894.3	898.5
643.8	82.5°	674.0	672.2	670.1	645.1	619.9	597.8	619.9	645.1	670.1	672.2
390.7	85°	428.1	425.0	421.9	402.2	382.6	362.7	382.6	402.2	421.9	425.0
170.5	87.5°	185.6	181.8	177.8	167.8	157.5	147.9	157.5	167.8	177.8	181.8
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°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
3740.6	2.5°	3755.4	3770.2	3788.6	3806.8	3830.3	3854.0	3877.5	3901.0	3927.8	3954.7
3513.1	5°	3533.5	3553.8	3583.1	3612.2	3650.2	3688.0	3729.7	3771.5	3818.6	3866.0
3376.1	7.5°	3400.4	3424.6	3459.2	3493.9	3540.1	3586.5	3639.1	3691.6	3753.9	3816.1
3334.7	10°	3362.1	3389.1	3430.7	3472.1	3524.3	3576.4	3633.1	3689.6	3751.8	3814.1
3395.8	12.5°	3430.9	3465.9	3518.8	3571.7	3625.6	3679.6	3723.8	3768.3	3809.4	3850.9
3522.4	15°	3575.6	3628.9	3704.2	3779.6	3826.4	3873.3	3884.8	3896.3	3890.7	3885.1
3644.1	17.5°	3722.6	3801.0	3900.8	4000.6	4038.3	4076.1	4040.1	4004.0	3936.2	3868.3
3718.1	20°	3814.1	3910.3	4024.3	4138.4	4156.0	4173.4	4097.9	4022.4	3904.4	3786.6
3720.7	22.5°	3819.9	3918.9	4027.8	4136.8	4126.4	4115.8	4017.6	3919.3	3784.5	3650.0
3645.4	25°	3733.2	3821.3	3910.5	3999.8	3963.9	3927.8	3831.1	3734.4	3613.3	3492.4
3497.8	27.5°	3566.1	3634.5	3698.0	3761.7	3721.3	3681.2	3603.7	3526.1	3426.8	3327.3
3316.0	30°	3365.2	3414.1	3462.6	3511.0	3478.3	3445.7	3381.2	3316.9	3234.4	3151.9
3133.5	32.5°	3172.6	3211.7	3256.4	3300.9	3264.5	3228.2	3166.4	3104.7	3038.7	2972.9
2972.4	35°	3008.4	3044.5	3076.1	3107.9	3064.3	3020.7	2959.5	2898.5	2848.4	2798.1
2835.4	37.5°	2868.8	2901.9	2916.5	2931.2	2877.3	2823.5	2762.4	2701.6	2665.6	2629.5
2709.8	40°	2738.0	2766.2	2762.8	2759.2	2697.1	2635.1	2576.3	2517.4	2491.4	2465.4
2582.5	42.5°	2606.2	2630.0	2612.1	2594.2	2527.2	2460.3	2404.4	2348.7	2327.4	2306.2
2457.2	45°	2478.5	2500.0	2474.3	2448.6	2379.2	2309.8	2256.8	2203.9	2185.9	2168.1
2358.0	47.5°	2373.0	2387.9	2358.3	2328.8	2260.3	2191.8	2140.1	2088.3	2071.6	2054.8
2298.9	50°	2299.5	2300.4	2262.4	2224.5	2163.1	2101.8	2053.1	2004.2	1977.9	1951.7
2259.0	52.5°	2250.9	2242.8	2197.8	2152.9	2095.6	2038.4	1993.8	1948.9	1909.7	1870.3
2221.7	55°	2210.4	2199.2	2151.5	2103.8	2053.8	2003.7	1955.5	1907.2	1851.5	1795.6
2182.1	57.5°	2170.8	2159.4	2111.4	2063.3	2013.7	1964.2	1907.5	1850.9	1790.8	1730.7
2127.2	60°	2114.7	2102.3	2054.0	2005.7	1955.3	1905.0	1840.0	1774.9	1722.3	1669.5
2039.5	62.5°	2027.5	2015.6	1971.3	1927.1	1873.4	1819.7	1743.8	1668.0	1634.5	1601.0
1921.2	65°	1909.1	1896.8	1857.9	1819.0	1767.6	1716.2	1634.8	1553.5	1540.8	1527.9
1786.3	67.5°	1774.4	1762.4	1728.8	1695.2	1646.6	1597.9	1522.7	1447.7	1451.7	1455.8
1642.0	70°	1630.4	1618.9	1588.6	1558.2	1516.2	1474.2	1408.1	1342.1	1356.2	1370.2
1483.2	72.5°	1469.5	1455.8	1426.1	1396.3	1358.3	1320.4	1268.5	1216.5	1236.9	1257.5
1293.9	75°	1279.6	1265.2	1238.2	1211.1	1176.7	1142.3	1103.7	1065.1	1084.8	1104.4
1110.2	77.5°	1096.8	1083.4	1055.1	1026.6	997.0	967.5	936.2	904.7	924.7	944.6
902.9	80°	885.1	867.4	845.9	824.2	799.3	774.4	748.4	722.3	739.1	755.8
674.0	82.5°	643.8	613.6	567.6	521.5	530.2	538.9	541.1	543.3	555.1	566.9
428.1	85°	390.7	353.4	310.1	267.0	291.1	315.2	326.6	337.8	351.0	364.3
185.6	87.5°	170.5	155.4	137.1	119.1	137.6	156.0	156.4	156.9	159.4	161.9
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°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
3984.4	2.5°	4014.3	4051.2	4084.4	4118.6	4152.8	4188.6	4224.4	4259.9	4295.6	4329.1
3922.5	5°	3978.8	4043.4	4108.8	4178.1	4247.3	4321.4	4395.7	4469.3	4543.1	4617.0
3891.0	7.5°	3966.0	4049.6	4138.8	4235.5	4332.2	4441.9	4551.7	4664.4	4777.1	4898.9
3893.2	10°	3972.3	4062.1	4172.1	4286.7	4401.0	4534.4	4667.6	4816.4	4965.4	5119.7
3915.3	12.5°	3980.1	4063.6	4179.3	4308.7	4438.0	4595.2	4752.5	4921.2	5089.9	5259.3
3915.9	15°	3946.9	4013.8	4141.9	4291.7	4441.4	4622.5	4803.5	4986.6	5169.6	5346.3
3857.1	17.5°	3845.7	3887.0	4037.7	4217.8	4397.9	4608.0	4818.2	5017.9	5217.6	5396.8
3733.6	20°	3680.7	3691.6	3867.0	4090.3	4313.5	4568.2	4822.8	5042.3	5261.8	5448.1
3571.7	22.5°	3493.4	3472.1	3671.8	3940.7	4209.5	4519.3	4829.1	5075.3	5321.4	5511.8
3402.1	25°	3311.8	3254.2	3458.9	3773.6	4088.6	4471.0	4853.6	5135.1	5416.4	5602.7
3240.2	27.5°	3153.0	3083.0	3269.3	3620.9	3972.6	4438.8	4905.0	5228.5	5551.8	5729.7
3082.5	30°	3013.4	2958.4	3114.9	3493.3	3871.7	4423.7	4975.4	5349.4	5723.5	5895.2
2932.0	32.5°	2891.0	2866.6	2992.7	3383.2	3773.6	4405.0	5036.1	5475.7	5915.3	6085.3
2786.7	35°	2775.5	2785.6	2890.7	3275.0	3659.4	4369.8	5080.6	5619.5	6158.4	6321.4
2642.0	37.5°	2654.4	2691.5	2783.3	3147.7	3512.1	4309.6	5107.1	5780.6	6454.2	6661.9
2493.6	40°	2521.8	2578.6	2661.9	2995.8	3329.7	4226.6	5123.7	5985.2	6846.5	7149.1
2343.5	42.5°	2380.9	2452.5	2529.3	2828.1	3127.0	4141.0	5155.3	6252.8	7350.2	7787.0
2204.4	45°	2240.8	2310.1	2387.9	2650.0	2912.2	4061.5	5210.9	6604.9	7998.9	8588.1
2085.3	47.5°	2115.8	2175.4	2275.8	2509.2	2742.5	3995.8	5249.0	6980.0	8711.0	9540.4
1978.7	50°	2005.7	2075.0	2207.0	2415.6	2624.2	3924.2	5224.1	7328.1	9432.1	10682.4
1896.9	52.5°	1923.7	2020.5	2172.3	2354.0	2535.8	3803.2	5070.8	7554.1	10037.3	11881.9
1837.8	55°	1880.1	2026.0	2167.2	2309.3	2451.4	3602.7	4754.0	7504.3	10254.5	12945.4
1792.3	57.5°	1854.0	2031.4	2156.0	2256.4	2356.8	3320.0	4283.1	7153.8	10024.5	13699.2
1749.5	60°	1829.4	2014.3	2096.5	2175.4	2254.3	2953.0	3651.6	6501.4	9351.1	13887.5
1700.8	62.5°	1800.7	1972.3	1982.4	2034.7	2087.2	2513.7	2940.2	5619.2	8298.2	13094.4
1634.2	65°	1740.3	1871.1	1869.9	1894.6	1919.4	2118.5	2317.5	4719.2	7120.9	11972.2
1544.2	67.5°	1632.6	1706.1	1709.5	1695.8	1682.0	1738.6	1795.1	3837.5	5879.8	10636.8
1433.1	70°	1495.9	1520.1	1520.1	1456.1	1392.0	1375.9	1359.7	3021.5	4683.2	9179.6
1300.6	72.5°	1343.7	1343.4	1328.1	1237.4	1146.5	1097.6	1048.9	2309.9	3571.0	7599.9
1137.8	75°	1170.9	1176.8	1106.5	1004.7	902.9	858.7	814.4	1676.5	2538.6	5789.0
971.2	77.5°	997.8	1000.9	885.0	786.1	687.3	657.1	627.0	1136.0	1645.1	4051.8
778.2	80°	800.4	800.9	662.4	578.8	495.0	482.6	470.1	731.9	993.9	2610.5
577.8	82.5°	588.7	582.2	463.9	402.2	340.6	338.1	335.9	450.2	564.8	1510.9
375.9	85°	387.6	379.0	291.1	246.0	200.8	202.1	203.1	240.7	278.3	679.6
166.6	87.5°	171.2	160.3	123.8	105.2	86.9	88.0	89.0	99.8	110.5	222.6
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
4362.5	2.5°	4379.0	4395.7	4419.2	4442.7	4456.7	4470.7	4477.7	4484.7	4481.6	4484.7
4691.0	5°	4748.7	4806.6	4863.9	4921.4	4952.5	4983.6	5002.5	5021.5	5035.8	5021.5
5021.0	7.5°	5115.0	5208.9	5293.4	5377.9	5428.8	5479.7	5507.3	5534.7	5547.9	5534.7
5273.9	10°	5385.1	5496.2	5595.4	5694.6	5754.6	5814.4	5841.2	5867.8	5877.9	5867.8
5428.8	12.5°	5549.3	5669.6	5759.3	5848.7	5892.2	5935.8	5950.5	5965.1	5966.7	5965.1
5523.0	15°	5627.0	5730.8	5787.0	5843.4	5844.9	5846.5	5830.9	5815.3	5797.0	5815.3
5575.9	17.5°	5646.1	5716.3	5717.4	5718.4	5655.3	5592.3	5534.5	5476.6	5435.8	5476.6
5634.3	20°	5658.8	5683.3	5609.4	5535.5	5396.3	5257.1	5155.8	5054.5	4992.2	5054.5
5702.0	22.5°	5670.0	5637.9	5484.7	5331.5	5126.8	4922.1	4795.4	4668.7	4599.9	4668.7
5789.2	25°	5688.0	5586.8	5354.3	5121.7	4873.1	4624.5	4491.3	4358.3	4293.3	4358.3
5907.5	27.5°	5726.6	5545.6	5237.5	4929.6	4654.1	4378.6	4247.5	4116.6	4055.1	4116.6
6067.1	30°	5797.3	5527.7	5148.5	4769.3	4482.2	4195.2	4073.6	3952.0	3894.7	3952.0
6255.4	32.5°	5886.0	5516.8	5087.8	4658.8	4389.0	4119.2	4023.8	3928.2	3887.0	3928.2
6484.2	35°	6032.2	5580.3	5133.2	4686.3	4498.9	4311.6	4289.4	4267.1	4263.7	4267.1
6869.5	37.5°	6337.8	5806.0	5399.7	4993.4	4981.3	4969.2	5071.0	5172.8	5225.7	5172.8
7451.7	40°	6873.4	6295.1	5993.0	5690.8	5904.1	6117.3	6364.8	6612.4	6735.6	6612.4
8223.8	42.5°	7650.0	7076.2	6902.2	6728.2	7193.3	7658.4	8108.6	8558.8	8823.1	8558.8
9177.3	45°	8661.8	8146.3	8069.5	7992.6	8737.8	9483.1	10222.9	10962.7	11411.8	10962.7
10369.7	47.5°	9868.3	9366.7	9351.1	9335.6	10410.6	11485.3	12568.3	13651.1	14287.0	13651.1
11932.5	50°	11313.1	10693.9	10696.6	10699.2	12084.6	13470.0	14899.5	16329.0	17193.2	16329.0
13726.6	52.5°	12976.6	12226.7	12150.9	12075.0	13729.8	15384.7	17153.4	18921.9	19957.9	18921.9
15636.6	55°	14895.6	14154.7	13859.1	13563.4	15405.3	17247.0	19355.4	21463.9	22696.0	21463.9
17373.8	57.5°	16970.3	16566.7	15973.8	15381.0	17240.7	19100.5	21488.7	23876.7	25404.6	23876.7
18423.8	60°	19050.5	19677.4	18941.1	18204.8	19964.7	21724.7	24281.6	26838.6	28489.9	26838.6
17890.6	62.5°	19603.1	21315.6	21232.6	21149.5	22761.7	24374.1	26806.8	29239.4	30765.7	29239.4
16823.5	65°	18430.8	20038.0	20356.1	20673.9	22722.8	24771.8	27130.8	29489.6	30789.1	29489.6
15393.8	67.5°	16922.4	18451.0	18600.2	18749.1	20883.9	23018.6	25387.6	27756.7	28774.8	27756.7
13676.0	70°	15338.7	17001.5	17068.1	17134.9	19044.0	20952.9	22991.6	25030.2	25596.1	25030.2
11629.0	72.5°	13537.0	15445.1	15493.1	15540.9	17034.5	18528.1	20055.0	21581.8	21639.1	21581.8
9039.5	75°	11014.3	12989.0	13166.3	13343.6	14505.7	15667.7	16742.6	17817.5	17529.5	17817.5
6458.6	77.5°	8301.9	10145.5	10399.2	10653.0	11536.4	12419.8	13182.1	13944.5	13449.5	13944.5
4227.1	80°	5778.0	7328.7	7644.1	7959.5	8626.7	9293.5	9693.9	10094.1	9297.9	10094.1
2457.2	82.5°	3517.4	4577.8	4930.1	5282.5	5741.7	6200.9	6368.0	6534.8	5909.1	6534.8
1081.1	85°	1643.8	2206.6	2506.2	2805.9	3183.2	3560.4	3655.2	3750.0	3248.7	3750.0
334.7	87.5°	523.8	712.9	880.1	1047.3	1236.0	1424.7	1432.7	1440.7	1209.5	1440.7
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):

325°		330°	335°	340°	345°	350°	355°	360°
4056.6	0°	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6	4056.6
4477.7	2.5°	4470.7	4456.7	4442.7	4419.2	4395.7	4379.0	4362.5
5002.5	5°	4983.6	4952.5	4921.4	4863.9	4806.6	4748.7	4691.0
5507.3	7.5°	5479.7	5428.8	5377.9	5293.4	5208.9	5115.0	5021.0
5841.2	10°	5814.4	5754.6	5694.6	5595.4	5496.2	5385.1	5273.9
5950.5	12.5°	5935.8	5892.2	5848.7	5759.3	5669.6	5549.3	5428.8
5830.9	15°	5846.5	5844.9	5843.4	5787.0	5730.8	5627.0	5523.0
5534.5	17.5°	5592.3	5655.3	5718.4	5717.4	5716.3	5646.1	5575.9
5155.8	20°	5257.1	5396.3	5535.5	5609.4	5683.3	5658.8	5634.3
4795.4	22.5°	4922.1	5126.8	5331.5	5484.7	5637.9	5670.0	5702.0
4491.3	25°	4624.5	4873.1	5121.7	5354.3	5586.8	5688.0	5789.2
4247.5	27.5°	4378.6	4654.1	4929.6	5237.5	5545.6	5726.6	5907.5
4073.6	30°	4195.2	4482.2	4769.3	5148.5	5527.7	5797.3	6067.1
4023.8	32.5°	4119.2	4389.0	4658.8	5087.8	5516.8	5886.0	6255.4
4289.4	35°	4311.6	4498.9	4686.3	5133.2	5580.3	6032.2	6484.2
5071.0	37.5°	4969.2	4981.3	4993.4	5399.7	5806.0	6337.8	6869.5
6364.8	40°	6117.3	5904.1	5690.8	5993.0	6295.1	6873.4	7451.7
8108.6	42.5°	7658.4	7193.3	6728.2	6902.2	7076.2	7650.0	8223.8
10222.9	45°	9483.1	8737.8	7992.6	8069.5	8146.3	8661.8	9177.3
12568.3	47.5°	11485.3	10410.6	9335.6	9351.1	9366.7	9868.3	10369.7
14899.5	50°	13470.0	12084.6	10699.2	10696.6	10693.9	11313.1	11932.5
17153.4	52.5°	15384.7	13729.8	12075.0	12150.9	12226.7	12976.6	13726.6
19355.4	55°	17247.0	15405.3	13563.4	13859.1	14154.7	14895.6	15636.6
21488.7	57.5°	19100.5	17240.7	15381.0	15973.8	16566.7	16970.3	17373.8
24281.6	60°	21724.7	19964.7	18204.8	18941.1	19677.4	19050.5	18423.8
26806.8	62.5°	24374.1	22761.7	21149.5	21232.6	21315.6	19603.1	17890.6
27130.8	65°	24771.8	22722.8	20673.9	20356.1	20038.0	18430.8	16823.5
25387.6	67.5°	23018.6	20883.9	18749.1	18600.2	18451.0	16922.4	15393.8
22991.6	70°	20952.9	19044.0	17134.9	17068.1	17001.5	15338.7	13676.0
20055.0	72.5°	18528.1	17034.5	15540.9	15493.1	15445.1	13537.0	11629.0
16742.6	75°	15667.7	14505.7	13343.6	13166.3	12989.0	11014.3	9039.5
13182.1	77.5°	12419.8	11536.4	10653.0	10399.2	10145.5	8301.9	6458.6
9693.9	80°	9293.5	8626.7	7959.5	7644.1	7328.7	5778.0	4227.1
6368.0	82.5°	6200.9	5741.7	5282.5	4930.1	4577.8	3517.4	2457.2
3655.2	85°	3560.4	3183.2	2805.9	2506.2	2206.6	1643.8	1081.1
1432.7	87.5°	1424.7	1236.0	1047.3	880.1	712.9	523.8	334.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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