

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: P953599

Luminaire Tested: **GALN-SB7A-835-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-835-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29484 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

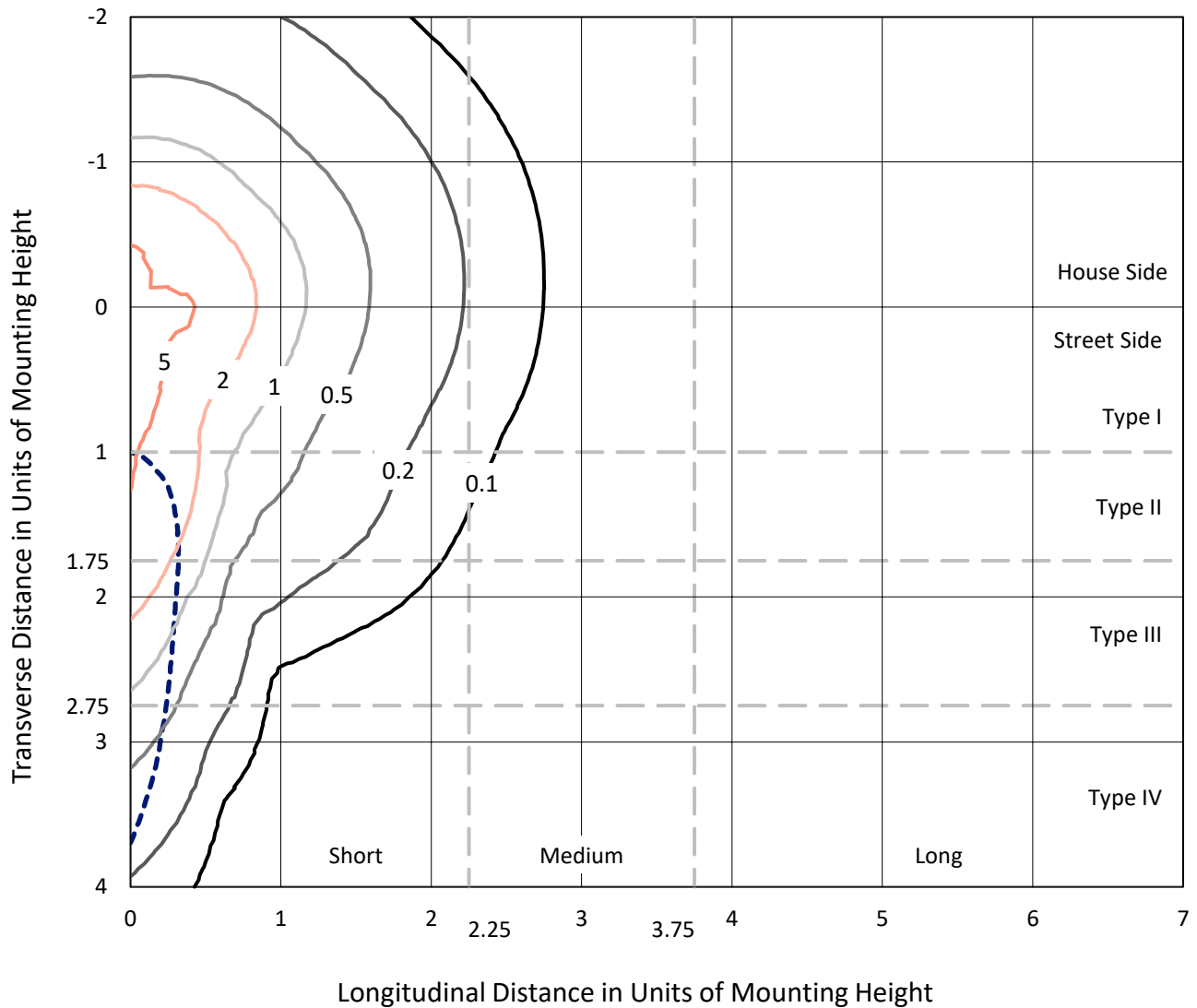
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

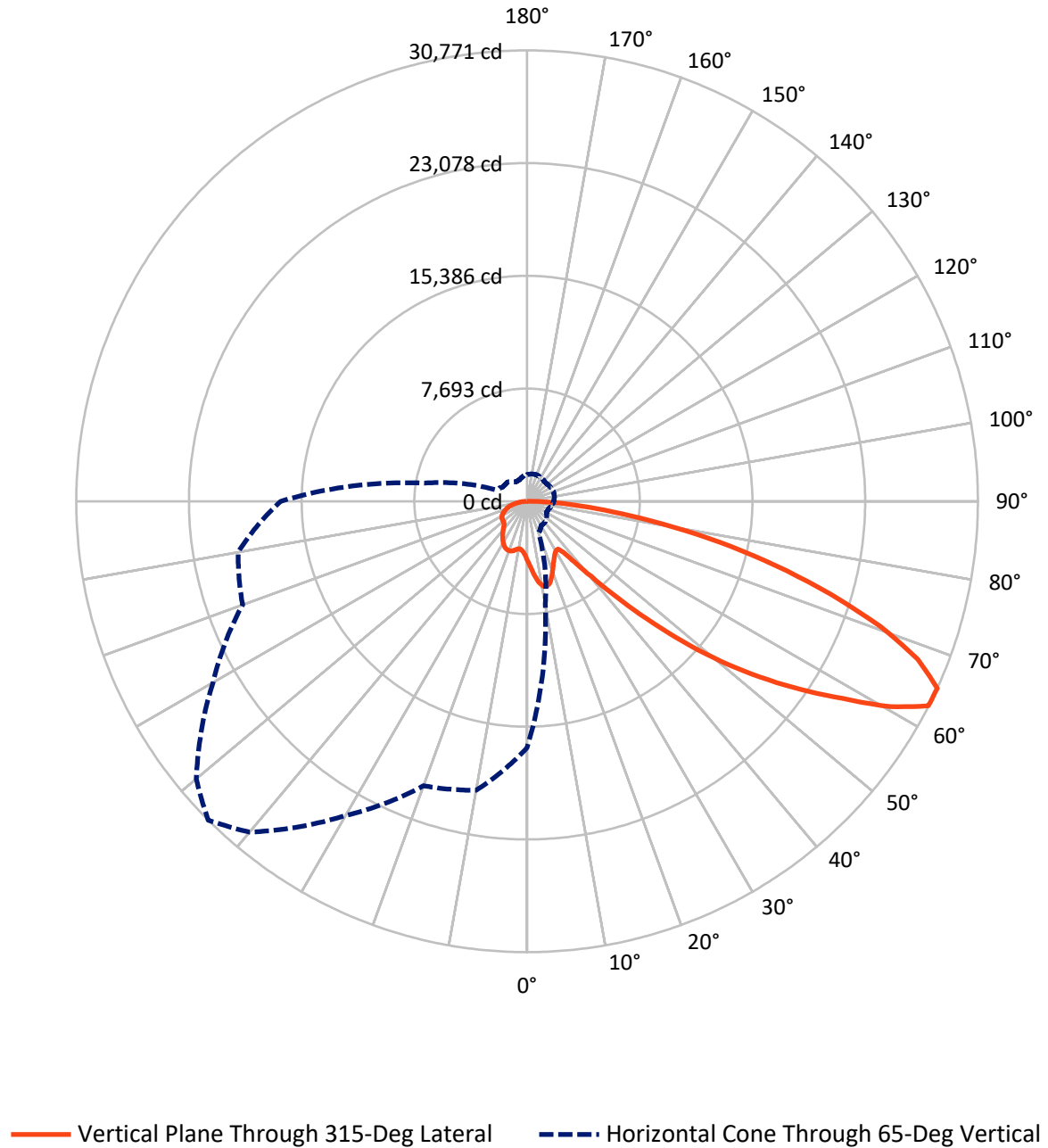
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	7493.3	0.0	7493.3
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21990.7	0.0	21990.7
	% Fixture	74.6	0.0	74.6
Total	Lumens	29484.0	0.0	29484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	1.4
10°-20°	1262.5	4.3
20°-30°	1950.2	6.6
30°-40°	2471.4	8.4
40°-50°	3727.5	12.6
50°-60°	6022.3	20.4
60°-70°	7507.7	25.5
70°-80°	4923.2	16.7
80°-90°	1217.1	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29484.0	100.0
0°-180°	29484.0	100.0



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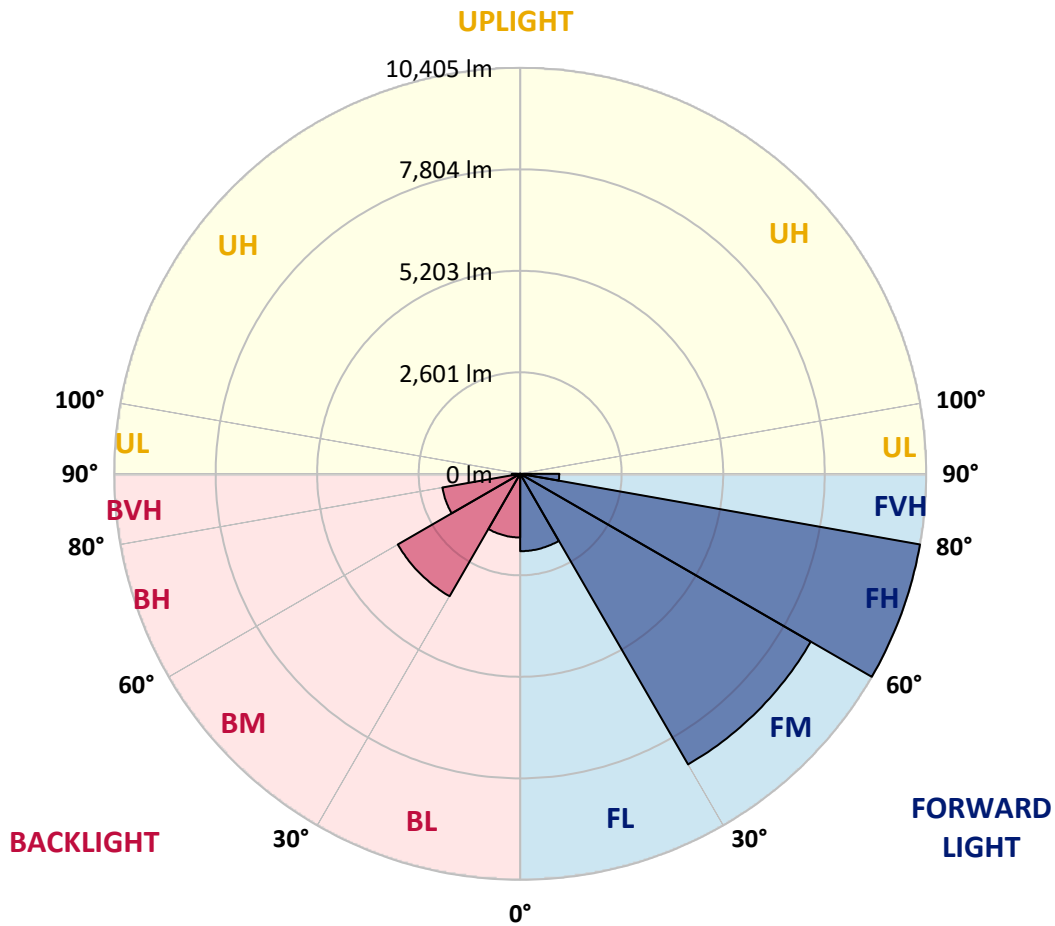
CATALOG NUMBER: GALN-SB7A-835-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.1	6.7			
FM (30°-60°)	8599.8	29.2			
FH (60°-80°)	10405.0	35.3			G4/12000
FVH (80°-90°)	1002.6	3.4			G5
BL (0°-30°)	1631.8	5.5	B3/2500		
BM (30°-60°)	3621.2	12.3	B3/5000		
BH (60°-80°)	2025.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	214.5	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°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
2.5°	4360.0	4326.6	4293.1	4257.5	4222.0	4186.2	4150.4	4116.2	4082.0	4048.9
5°	4688.3	4614.4	4540.5	4466.7	4393.1	4318.9	4244.9	4175.7	4106.4	4041.1
7.5°	5018.1	4896.1	4774.3	4661.7	4549.0	4439.4	4329.7	4233.1	4136.4	4047.3
10°	5270.9	5116.7	4962.6	4813.7	4664.9	4531.8	4398.4	4284.2	4169.7	4059.7
12.5°	5425.7	5256.3	5087.0	4918.4	4749.7	4592.6	4435.5	4306.2	4176.9	4061.3
15°	5519.8	5343.2	5166.7	4983.7	4800.8	4619.8	4438.9	4289.2	4139.6	4011.5
17.5°	5572.7	5393.7	5214.6	5015.0	4815.4	4605.4	4395.3	4215.3	4035.3	3884.7
20°	5631.1	5445.0	5258.8	5039.4	4820.0	4565.5	4311.0	4087.9	3864.8	3689.5
22.5°	5698.7	5508.6	5318.4	5072.4	4826.3	4516.7	4207.1	3938.4	3669.7	3470.1
25°	5785.9	5599.5	5413.3	5132.1	4850.9	4468.4	4086.2	3771.5	3456.9	3252.3
27.5°	5904.1	5726.4	5548.6	5225.5	4902.2	4436.2	3970.3	3618.8	3267.4	3081.2
30°	6063.6	5891.8	5720.2	5346.4	4972.5	4421.2	3869.5	3491.3	3113.1	2956.7
32.5°	6251.8	6081.8	5911.9	5472.5	5033.2	4402.5	3771.5	3381.3	2990.9	2864.9
35°	6480.5	6317.8	6154.9	5616.3	5077.7	4367.3	3657.3	3273.2	2889.0	2784.0
37.5°	6865.6	6658.0	6450.5	5777.3	5104.1	4307.1	3510.1	3145.9	2781.7	2689.9
40°	7447.4	7145.0	6842.5	5981.7	5120.8	4224.2	3327.8	2994.1	2660.3	2577.1
42.5°	8219.1	7782.5	7346.0	6249.2	5152.4	4138.6	3125.2	2826.5	2527.8	2451.1
45°	9172.0	8583.1	7994.3	6601.1	5207.9	4059.1	2910.5	2648.5	2386.5	2308.7
47.5°	10363.7	9534.9	8706.0	6976.0	5246.0	3993.5	2740.9	2507.7	2274.5	2174.2
50°	11925.7	10676.2	9426.6	7323.9	5221.1	3921.9	2622.7	2414.2	2205.8	2073.8
52.5°	13718.7	11875.1	10031.5	7549.8	5067.9	3801.0	2534.3	2352.6	2171.1	2019.4
55°	15627.6	12938.0	10248.6	7500.0	4751.3	3600.6	2450.0	2308.0	2165.9	2024.8
57.5°	17363.8	13691.3	10018.8	7149.6	4280.7	3318.1	2355.4	2255.1	2154.7	2030.3
60°	18413.2	13879.5	9345.7	6497.6	3649.5	2951.3	2253.0	2174.2	2095.3	2013.2
62.5°	17880.3	13086.9	8293.4	5616.0	2938.5	2512.2	2086.0	2033.5	1981.3	1971.1
65°	16813.8	11965.3	7116.8	4716.4	2316.2	2117.2	1918.2	1893.5	1868.8	1870.0
67.5°	15384.9	10630.6	5876.4	3835.3	1794.1	1737.6	1681.0	1694.8	1708.5	1705.1
70°	13668.1	9174.3	4680.5	3019.7	1359.0	1375.1	1391.2	1455.3	1519.2	1519.2
72.5°	11622.3	7595.5	3568.9	2308.6	1048.3	1097.0	1145.8	1236.7	1327.4	1342.6
75°	9034.3	5785.7	2537.1	1675.6	814.0	858.2	902.3	1004.1	1105.8	1176.2
77.5°	6454.8	4049.5	1644.1	1135.4	626.7	656.7	686.9	785.7	884.4	1000.4
80°	4224.7	2609.0	993.4	731.5	469.8	482.3	494.7	578.4	662.0	800.4
82.5°	2455.8	1510.0	564.4	449.9	335.7	337.9	340.4	402.0	463.6	581.9
85°	1080.5	679.2	278.2	240.5	203.0	201.9	200.7	245.8	290.9	378.8
87.5°	334.5	222.5	110.5	99.7	89.0	87.9	86.8	105.2	123.7	160.2
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°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
4012.0	2.5°	3982.1	3952.4	3925.5	3898.7	3875.2	3851.7	3828.1	3804.6	3786.4	3768.0
3976.5	5°	3920.2	3863.7	3816.4	3769.3	3727.6	3685.9	3648.1	3610.1	3581.0	3551.8
3963.8	7.5°	3888.8	3813.9	3751.7	3689.5	3637.0	3584.5	3538.1	3491.9	3457.2	3422.7
3970.0	10°	3890.9	3811.9	3749.7	3687.5	3631.0	3574.4	3522.2	3470.1	3428.7	3387.2
3977.8	12.5°	3913.0	3848.6	3807.2	3766.2	3721.7	3677.5	3623.5	3569.7	3516.8	3463.9
3944.6	15°	3913.7	3882.9	3888.5	3894.1	3882.5	3871.0	3824.2	3777.4	3702.1	3626.8
3843.5	17.5°	3854.9	3866.1	3933.9	4001.7	4037.8	4073.8	4035.9	3998.3	3898.6	3798.8
3678.6	20°	3731.5	3784.4	3902.2	4020.1	4095.5	4171.0	4153.6	4136.0	4021.9	3908.1
3491.4	22.5°	3569.7	3647.9	3782.4	3917.1	4015.3	4113.4	4124.0	4134.4	4025.5	3916.6
3309.9	25°	3400.1	3490.3	3611.2	3732.3	3828.9	3925.5	3961.6	3997.5	3908.2	3819.1
3151.2	27.5°	3238.3	3325.4	3424.8	3524.1	3601.6	3679.1	3719.2	3759.5	3695.9	3632.4
3011.6	30°	3080.7	3150.1	3232.6	3315.0	3379.3	3443.7	3476.3	3509.0	3460.6	3412.1
2889.4	32.5°	2930.3	2971.2	3037.0	3103.0	3164.6	3226.3	3262.6	3299.0	3254.5	3209.8
2773.9	35°	2785.1	2796.5	2846.7	2896.8	2957.8	3018.9	3062.5	3106.1	3074.3	3042.8
2652.9	37.5°	2640.4	2628.0	2664.1	2700.0	2760.8	2821.8	2875.7	2929.5	2914.9	2900.2
2520.3	40°	2492.2	2464.0	2490.0	2516.0	2574.8	2633.6	2695.5	2757.6	2761.2	2764.6
2379.5	42.5°	2342.2	2304.9	2326.0	2347.3	2403.0	2458.9	2525.8	2592.7	2610.6	2628.5
2239.5	45°	2203.1	2166.9	2184.6	2202.6	2255.5	2308.4	2377.8	2447.2	2472.9	2498.5
2114.6	47.5°	2084.1	2053.6	2070.4	2087.0	2138.9	2190.5	2259.0	2327.4	2357.0	2386.5
2004.6	50°	1977.5	1950.6	1976.7	2003.0	2051.9	2100.6	2161.9	2223.2	2261.1	2299.1
1922.6	52.5°	1895.8	1869.2	1908.6	1947.8	1992.6	2037.3	2094.4	2151.6	2196.6	2241.5
1879.0	55°	1836.7	1794.6	1850.4	1906.1	1954.3	2002.6	2052.7	2102.6	2150.2	2198.0
1852.9	57.5°	1791.3	1729.7	1789.7	1849.8	1906.4	1963.1	2012.5	2062.2	2110.2	2158.1
1828.3	60°	1748.5	1668.5	1721.3	1773.9	1838.9	1903.9	1954.2	2004.6	2052.8	2101.1
1799.7	62.5°	1699.8	1600.1	1633.5	1667.0	1742.8	1818.7	1872.4	1926.0	1970.2	2014.4
1739.3	65°	1633.2	1527.0	1539.9	1552.6	1633.9	1715.2	1766.6	1817.9	1856.8	1895.7
1631.7	67.5°	1543.3	1454.9	1450.9	1446.9	1521.8	1597.0	1645.7	1694.2	1727.8	1761.4
1495.1	70°	1432.2	1369.4	1355.4	1341.4	1407.3	1473.3	1515.3	1557.3	1587.7	1618.0
1342.9	72.5°	1299.8	1256.7	1236.2	1215.8	1267.8	1319.6	1357.6	1395.5	1425.2	1454.9
1170.2	75°	1137.1	1103.8	1084.2	1064.4	1103.0	1141.6	1176.0	1210.4	1237.4	1264.5
997.2	77.5°	970.6	944.0	924.1	904.2	935.6	966.9	996.5	1026.0	1054.5	1082.8
800.0	80°	777.7	755.3	738.7	721.9	748.0	774.0	798.9	823.8	845.4	866.9
588.4	82.5°	577.5	566.6	554.8	543.0	540.8	538.6	529.9	521.2	567.2	613.3
387.4	85°	375.7	364.0	350.8	337.6	326.4	315.0	290.9	266.8	309.9	353.2
171.1	87.5°	166.5	161.8	159.3	156.8	156.4	155.9	137.5	119.0	137.1	155.3
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
3753.3	2.5°	3738.5	3727.0	3715.5	3704.9	3694.1	3680.9	3694.1	3704.9	3715.5	3727.0
3531.4	5°	3511.0	3496.6	3482.1	3471.1	3460.0	3449.1	3460.0	3471.1	3482.1	3496.6
3398.4	7.5°	3374.1	3357.5	3341.0	3331.0	3321.2	3313.8	3321.2	3331.0	3341.0	3357.5
3360.1	10°	3332.7	3317.0	3301.3	3292.9	3284.5	3281.1	3284.5	3292.9	3301.3	3317.0
3428.9	12.5°	3393.9	3376.3	3358.9	3351.7	3344.6	3343.3	3344.6	3351.7	3358.9	3376.3
3573.6	15°	3520.4	3495.9	3471.7	3462.3	3453.0	3452.2	3453.0	3462.3	3471.7	3495.9
3720.4	17.5°	3642.0	3605.9	3569.7	3557.9	3545.9	3544.0	3545.9	3557.9	3569.7	3605.9
3811.9	20°	3715.9	3669.7	3623.4	3608.6	3593.8	3589.1	3593.8	3608.6	3623.4	3669.7
3817.7	22.5°	3718.6	3669.9	3621.0	3604.7	3588.4	3581.4	3588.4	3604.7	3621.0	3669.9
3731.0	25°	3643.3	3601.0	3558.8	3543.4	3528.1	3519.1	3528.1	3543.4	3558.8	3601.0
3564.1	27.5°	3495.8	3467.5	3439.0	3432.0	3425.0	3422.7	3425.0	3432.0	3439.0	3467.5
3363.2	30°	3314.1	3299.6	3285.0	3285.0	3285.0	3287.3	3285.0	3285.0	3285.0	3299.6
3170.8	32.5°	3131.7	3122.2	3112.8	3114.0	3115.4	3117.7	3115.4	3114.0	3112.8	3122.2
3006.7	35°	2970.7	2956.3	2941.9	2938.8	2935.7	2934.2	2935.7	2938.8	2941.9	2956.3
2867.1	37.5°	2833.8	2807.5	2781.4	2767.5	2753.7	2745.9	2753.7	2767.5	2781.4	2807.5
2736.4	40°	2708.3	2670.0	2632.0	2606.2	2580.7	2565.4	2580.7	2606.2	2632.0	2670.0
2604.6	42.5°	2581.0	2533.6	2486.1	2448.6	2411.1	2386.5	2411.1	2448.6	2486.1	2533.6
2477.1	45°	2455.8	2401.5	2347.3	2303.3	2259.3	2231.0	2259.3	2303.3	2347.3	2401.5
2371.6	47.5°	2356.7	2308.4	2260.2	2219.4	2178.8	2151.6	2178.8	2219.4	2260.2	2308.4
2298.2	50°	2297.5	2259.0	2220.4	2182.7	2145.1	2118.9	2145.1	2182.7	2220.4	2259.0
2249.6	52.5°	2257.7	2226.3	2194.9	2161.1	2127.5	2103.4	2127.5	2161.1	2194.9	2226.3
2209.2	55°	2220.4	2193.0	2165.6	2136.1	2106.5	2084.7	2106.5	2136.1	2165.6	2193.0
2169.5	57.5°	2180.9	2153.2	2125.5	2096.2	2066.8	2044.3	2066.8	2096.2	2125.5	2153.2
2113.5	60°	2125.9	2098.9	2072.0	2041.8	2011.6	1988.3	2011.6	2041.8	2072.0	2098.9
2026.4	62.5°	2038.4	2013.9	1989.5	1957.8	1926.0	1898.0	1926.0	1957.8	1989.5	2013.9
1908.0	65°	1920.1	1896.6	1873.1	1842.3	1811.7	1787.6	1811.7	1842.3	1873.1	1896.6
1773.4	67.5°	1785.2	1763.6	1742.1	1713.5	1684.9	1663.1	1684.9	1713.5	1742.1	1763.6
1629.5	70°	1641.0	1623.4	1605.9	1578.5	1551.1	1526.2	1551.1	1578.5	1605.9	1623.4
1468.6	72.5°	1482.3	1467.7	1453.1	1426.9	1401.0	1376.8	1401.0	1426.9	1453.1	1467.7
1278.8	75°	1293.1	1286.0	1278.8	1256.9	1235.0	1211.9	1235.0	1256.9	1278.8	1286.0
1096.2	77.5°	1109.6	1099.6	1089.3	1067.2	1045.2	1026.8	1045.2	1067.2	1089.3	1099.6
884.6	80°	902.3	898.0	893.8	864.1	834.2	799.7	834.2	864.1	893.8	898.0
643.5	82.5°	673.6	671.8	669.8	644.7	619.5	597.4	619.5	644.7	669.8	671.8
390.5	85°	427.8	424.7	421.6	402.0	382.4	362.5	382.4	402.0	421.6	424.7
170.4	87.5°	185.4	181.7	177.7	167.7	157.4	147.8	157.4	167.7	177.7	181.7
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
3738.5	2.5°	3753.3	3768.0	3786.4	3804.6	3828.1	3851.7	3875.2	3898.7	3925.5	3952.4
3511.0	5°	3531.4	3551.8	3581.0	3610.1	3648.1	3685.9	3727.6	3769.3	3816.4	3863.7
3374.1	7.5°	3398.4	3422.7	3457.2	3491.9	3538.1	3584.5	3637.0	3689.5	3751.7	3813.9
3332.7	10°	3360.1	3387.2	3428.7	3470.1	3522.2	3574.4	3631.0	3687.5	3749.7	3811.9
3393.9	12.5°	3428.9	3463.9	3516.8	3569.7	3623.5	3677.5	3721.7	3766.2	3807.2	3848.6
3520.4	15°	3573.6	3626.8	3702.1	3777.4	3824.2	3871.0	3882.5	3894.1	3888.5	3882.9
3642.0	17.5°	3720.4	3798.8	3898.6	3998.3	4035.9	4073.8	4037.8	4001.7	3933.9	3866.1
3715.9	20°	3811.9	3908.1	4021.9	4136.0	4153.6	4171.0	4095.5	4020.1	3902.2	3784.4
3718.6	22.5°	3817.7	3916.6	4025.5	4134.4	4124.0	4113.4	4015.3	3917.1	3782.4	3647.9
3643.3	25°	3731.0	3819.1	3908.2	3997.5	3961.6	3925.5	3828.9	3732.3	3611.2	3490.3
3495.8	27.5°	3564.1	3632.4	3695.9	3759.5	3719.2	3679.1	3601.6	3524.1	3424.8	3325.4
3314.1	30°	3363.2	3412.1	3460.6	3509.0	3476.3	3443.7	3379.3	3315.0	3232.6	3150.1
3131.7	32.5°	3170.8	3209.8	3254.5	3299.0	3262.6	3226.3	3164.6	3103.0	3037.0	2971.2
2970.7	35°	3006.7	3042.8	3074.3	3106.1	3062.5	3018.9	2957.8	2896.8	2846.7	2796.5
2833.8	37.5°	2867.1	2900.2	2914.9	2929.5	2875.7	2821.8	2760.8	2700.0	2664.1	2628.0
2708.3	40°	2736.4	2764.6	2761.2	2757.6	2695.5	2633.6	2574.8	2516.0	2490.0	2464.0
2581.0	42.5°	2604.6	2628.5	2610.6	2592.7	2525.8	2458.9	2403.0	2347.3	2326.0	2304.9
2455.8	45°	2477.1	2498.5	2472.9	2447.2	2377.8	2308.4	2255.5	2202.6	2184.6	2166.9
2356.7	47.5°	2371.6	2386.5	2357.0	2327.4	2259.0	2190.5	2138.9	2087.0	2070.4	2053.6
2297.5	50°	2298.2	2299.1	2261.1	2223.2	2161.9	2100.6	2051.9	2003.0	1976.7	1950.6
2257.7	52.5°	2249.6	2241.5	2196.6	2151.6	2094.4	2037.3	1992.6	1947.8	1908.6	1869.2
2220.4	55°	2209.2	2198.0	2150.2	2102.6	2052.7	2002.6	1954.3	1906.1	1850.4	1794.6
2180.9	57.5°	2169.5	2158.1	2110.2	2062.2	2012.5	1963.1	1906.4	1849.8	1789.7	1729.7
2125.9	60°	2113.5	2101.1	2052.8	2004.6	1954.2	1903.9	1838.9	1773.9	1721.3	1668.5
2038.4	62.5°	2026.4	2014.4	1970.2	1926.0	1872.4	1818.7	1742.8	1667.0	1633.5	1600.1
1920.1	65°	1908.0	1895.7	1856.8	1817.9	1766.6	1715.2	1633.9	1552.6	1539.9	1527.0
1785.2	67.5°	1773.4	1761.4	1727.8	1694.2	1645.7	1597.0	1521.8	1446.9	1450.9	1454.9
1641.0	70°	1629.5	1618.0	1587.7	1557.3	1515.3	1473.3	1407.3	1341.4	1355.4	1369.4
1482.3	72.5°	1468.6	1454.9	1425.2	1395.5	1357.6	1319.6	1267.8	1215.8	1236.2	1256.7
1293.1	75°	1278.8	1264.5	1237.4	1210.4	1176.0	1141.6	1103.0	1064.4	1084.2	1103.8
1109.6	77.5°	1096.2	1082.8	1054.5	1026.0	996.5	966.9	935.6	904.2	924.1	944.0
902.3	80°	884.6	866.9	845.4	823.8	798.9	774.0	748.0	721.9	738.7	755.3
673.6	82.5°	643.5	613.3	567.2	521.2	529.9	538.6	540.8	543.0	554.8	566.6
427.8	85°	390.5	353.2	309.9	266.8	290.9	315.0	326.4	337.6	350.8	364.0
185.4	87.5°	170.4	155.3	137.1	119.0	137.5	155.9	156.4	156.8	159.3	161.8
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
3982.1	2.5°	4012.0	4048.9	4082.0	4116.2	4150.4	4186.2	4222.0	4257.5	4293.1	4326.6
3920.2	5°	3976.5	4041.1	4106.4	4175.7	4244.9	4318.9	4393.1	4466.7	4540.5	4614.4
3888.8	7.5°	3963.8	4047.3	4136.4	4233.1	4329.7	4439.4	4549.0	4661.7	4774.3	4896.1
3890.9	10°	3970.0	4059.7	4169.7	4284.2	4398.4	4531.8	4664.9	4813.7	4962.6	5116.7
3913.0	12.5°	3977.8	4061.3	4176.9	4306.2	4435.5	4592.6	4749.7	4918.4	5087.0	5256.3
3913.7	15°	3944.6	4011.5	4139.6	4289.2	4438.9	4619.8	4800.8	4983.7	5166.7	5343.2
3854.9	17.5°	3843.5	3884.7	4035.3	4215.3	4395.3	4605.4	4815.4	5015.0	5214.6	5393.7
3731.5	20°	3678.6	3689.5	3864.8	4087.9	4311.0	4565.5	4820.0	5039.4	5258.8	5445.0
3569.7	22.5°	3491.4	3470.1	3669.7	3938.4	4207.1	4516.7	4826.3	5072.4	5318.4	5508.6
3400.1	25°	3309.9	3252.3	3456.9	3771.5	4086.2	4468.4	4850.9	5132.1	5413.3	5599.5
3238.3	27.5°	3151.2	3081.2	3267.4	3618.8	3970.3	4436.2	4902.2	5225.5	5548.6	5726.4
3080.7	30°	3011.6	2956.7	3113.1	3491.3	3869.5	4421.2	4972.5	5346.4	5720.2	5891.8
2930.3	32.5°	2889.4	2864.9	2990.9	3381.3	3771.5	4402.5	5033.2	5472.5	5911.9	6081.8
2785.1	35°	2773.9	2784.0	2889.0	3273.2	3657.3	4367.3	5077.7	5616.3	6154.9	6317.8
2640.4	37.5°	2652.9	2689.9	2781.7	3145.9	3510.1	4307.1	5104.1	5777.3	6450.5	6658.0
2492.2	40°	2520.3	2577.1	2660.3	2994.1	3327.8	4224.2	5120.8	5981.7	6842.5	7145.0
2342.2	42.5°	2379.5	2451.1	2527.8	2826.5	3125.2	4138.6	5152.4	6249.2	7346.0	7782.5
2203.1	45°	2239.5	2308.7	2386.5	2648.5	2910.5	4059.1	5207.9	6601.1	7994.3	8583.1
2084.1	47.5°	2114.6	2174.2	2274.5	2507.7	2740.9	3993.5	5246.0	6976.0	8706.0	9534.9
1977.5	50°	2004.6	2073.8	2205.8	2414.2	2622.7	3921.9	5221.1	7323.9	9426.6	10676.2
1895.8	52.5°	1922.6	2019.4	2171.1	2352.6	2534.3	3801.0	5067.9	7549.8	10031.5	11875.1
1836.7	55°	1879.0	2024.8	2165.9	2308.0	2450.0	3600.6	4751.3	7500.0	10248.6	12938.0
1791.3	57.5°	1852.9	2030.3	2154.7	2255.1	2355.4	3318.1	4280.7	7149.6	10018.8	13691.3
1748.5	60°	1828.3	2013.2	2095.3	2174.2	2253.0	2951.3	3649.5	6497.6	9345.7	13879.5
1699.8	62.5°	1799.7	1971.1	1981.3	2033.5	2086.0	2512.2	2938.5	5616.0	8293.4	13086.9
1633.2	65°	1739.3	1870.0	1868.8	1893.5	1918.2	2117.2	2316.2	4716.4	7116.8	11965.3
1543.3	67.5°	1631.7	1705.1	1708.5	1694.8	1681.0	1737.6	1794.1	3835.3	5876.4	10630.6
1432.2	70°	1495.1	1519.2	1519.2	1455.3	1391.2	1375.1	1359.0	3019.7	4680.5	9174.3
1299.8	72.5°	1342.9	1342.6	1327.4	1236.7	1145.8	1097.0	1048.3	2308.6	3568.9	7595.5
1137.1	75°	1170.2	1176.2	1105.8	1004.1	902.3	858.2	814.0	1675.6	2537.1	5785.7
970.6	77.5°	997.2	1000.4	884.4	785.7	686.9	656.7	626.7	1135.4	1644.1	4049.5
777.7	80°	800.0	800.4	662.0	578.4	494.7	482.3	469.8	731.5	993.4	2609.0
577.5	82.5°	588.4	581.9	463.6	402.0	340.4	337.9	335.7	449.9	564.4	1510.0
375.7	85°	387.4	378.8	290.9	245.8	200.7	201.9	203.0	240.5	278.2	679.2
166.5	87.5°	171.1	160.2	123.7	105.2	86.8	87.9	89.0	99.7	110.5	222.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
4360.0	2.5°	4376.5	4393.1	4416.6	4440.1	4454.1	4468.1	4475.1	4482.1	4479.0	4482.1
4688.3	5°	4746.0	4803.9	4861.1	4918.5	4949.6	4980.8	4999.6	5018.6	5032.9	5018.6
5018.1	7.5°	5112.1	5205.9	5290.4	5374.8	5425.7	5476.6	5504.1	5531.5	5544.7	5531.5
5270.9	10°	5382.0	5493.1	5592.2	5691.3	5751.3	5811.1	5837.8	5864.4	5874.5	5864.4
5425.7	12.5°	5546.1	5666.4	5756.0	5845.3	5888.9	5932.4	5947.0	5961.7	5963.2	5961.7
5519.8	15°	5623.8	5727.5	5783.7	5840.0	5841.6	5843.1	5827.6	5812.0	5793.6	5812.0
5572.7	17.5°	5642.9	5713.1	5714.1	5715.1	5652.1	5589.1	5531.3	5473.5	5432.7	5473.5
5631.1	20°	5655.5	5680.1	5606.2	5532.3	5393.2	5254.1	5152.8	5051.5	4989.3	5051.5
5698.7	22.5°	5666.7	5634.6	5481.6	5328.5	5123.9	4919.3	4792.7	4666.0	4597.3	4666.0
5785.9	25°	5684.7	5583.6	5351.2	5118.8	4870.3	4621.8	4488.7	4355.8	4290.8	4355.8
5904.1	27.5°	5723.3	5542.4	5234.5	4926.8	4651.4	4376.0	4245.0	4114.2	4052.7	4114.2
6063.6	30°	5794.0	5524.5	5145.5	4766.5	4479.6	4192.8	4071.3	3949.8	3892.5	3949.8
6251.8	32.5°	5882.6	5513.6	5084.8	4656.1	4386.5	4116.8	4021.5	3926.0	3884.7	3926.0
6480.5	35°	6028.7	5577.1	5130.3	4683.6	4496.3	4309.1	4286.9	4264.6	4261.2	4264.6
6865.6	37.5°	6334.1	5802.7	5396.6	4990.6	4978.4	4966.3	5068.0	5169.8	5222.7	5169.8
7447.4	40°	6869.4	6291.5	5989.5	5687.5	5900.7	6113.8	6361.2	6608.5	6731.8	6608.5
8219.1	42.5°	7645.6	7072.2	6898.2	6724.3	7189.2	7654.0	8103.9	8553.9	8818.0	8553.9
9172.0	45°	8656.9	8141.6	8064.9	7988.0	8732.8	9477.7	10217.0	10956.4	11405.3	10956.4
10363.7	47.5°	9862.6	9361.3	9345.7	9330.2	10404.6	11478.7	12561.0	13643.2	14278.7	13643.2
11925.7	50°	11306.6	10687.7	10690.4	10693.0	12077.7	13462.3	14890.9	16319.6	17183.3	16319.6
13718.7	52.5°	12969.1	12219.7	12143.9	12068.0	13721.9	15375.9	17143.5	18911.0	19946.4	18911.0
15627.6	55°	14887.0	14146.5	13851.1	13555.6	15396.4	17237.0	19344.3	21451.6	22682.9	21451.6
17363.8	57.5°	16960.6	16557.1	15964.6	15372.1	17230.8	19089.5	21476.3	23863.0	25390.0	23863.0
18413.2	60°	19039.5	19666.0	18930.1	18194.3	19953.2	21712.2	24267.6	26823.1	28473.5	26823.1
17880.3	62.5°	19591.8	21303.3	21220.4	21137.3	22748.6	24360.1	26791.4	29222.6	30748.0	29222.6
16813.8	65°	18420.2	20026.5	20344.3	20662.0	22709.7	24757.5	27115.1	29472.6	30771.3	29472.6
15384.9	67.5°	16912.6	18440.4	18589.4	18738.3	20871.9	23005.3	25373.0	27740.7	28758.2	27740.7
13668.1	70°	15329.8	16991.7	17058.3	17125.0	19033.0	20940.8	22978.4	25015.8	25581.3	25015.8
11622.3	72.5°	13529.2	15436.2	15484.1	15531.9	17024.7	18517.4	20043.4	21569.3	21626.6	21569.3
9034.3	75°	11007.9	12981.6	13158.8	13336.0	14497.3	15658.7	16732.9	17807.2	17519.4	17807.2
6454.8	77.5°	8297.2	10139.6	10393.2	10646.8	11529.7	12412.6	13174.5	13936.5	13441.7	13936.5
4224.7	80°	5774.7	7324.5	7639.7	7954.9	8621.7	9288.2	9688.3	10088.3	9292.5	10088.3
2455.8	82.5°	3515.4	4575.2	4927.2	5279.5	5738.4	6197.4	6364.3	6531.1	5905.7	6531.1
1080.5	85°	1642.9	2205.3	2504.8	2804.3	3181.4	3558.3	3653.1	3747.8	3246.9	3747.8
334.5	87.5°	523.5	712.5	879.6	1046.7	1235.3	1423.8	1431.9	1439.9	1208.8	1439.9
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):

325°		330°	335°	340°	345°	350°	355°	360°
4054.3	0°	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3	4054.3
4475.1	2.5°	4468.1	4454.1	4440.1	4416.6	4393.1	4376.5	4360.0
4999.6	5°	4980.8	4949.6	4918.5	4861.1	4803.9	4746.0	4688.3
5504.1	7.5°	5476.6	5425.7	5374.8	5290.4	5205.9	5112.1	5018.1
5837.8	10°	5811.1	5751.3	5691.3	5592.2	5493.1	5382.0	5270.9
5947.0	12.5°	5932.4	5888.9	5845.3	5756.0	5666.4	5546.1	5425.7
5827.6	15°	5843.1	5841.6	5840.0	5783.7	5727.5	5623.8	5519.8
5531.3	17.5°	5589.1	5652.1	5715.1	5714.1	5713.1	5642.9	5572.7
5152.8	20°	5254.1	5393.2	5532.3	5606.2	5680.1	5655.5	5631.1
4792.7	22.5°	4919.3	5123.9	5328.5	5481.6	5634.6	5666.7	5698.7
4488.7	25°	4621.8	4870.3	5118.8	5351.2	5583.6	5684.7	5785.9
4245.0	27.5°	4376.0	4651.4	4926.8	5234.5	5542.4	5723.3	5904.1
4071.3	30°	4192.8	4479.6	4766.5	5145.5	5524.5	5794.0	6063.6
4021.5	32.5°	4116.8	4386.5	4656.1	5084.8	5513.6	5882.6	6251.8
4286.9	35°	4309.1	4496.3	4683.6	5130.3	5577.1	6028.7	6480.5
5068.0	37.5°	4966.3	4978.4	4990.6	5396.6	5802.7	6334.1	6865.6
6361.2	40°	6113.8	5900.7	5687.5	5989.5	6291.5	6869.4	7447.4
8103.9	42.5°	7654.0	7189.2	6724.3	6898.2	7072.2	7645.6	8219.1
10217.0	45°	9477.7	8732.8	7988.0	8064.9	8141.6	8656.9	9172.0
12561.0	47.5°	11478.7	10404.6	9330.2	9345.7	9361.3	9862.6	10363.7
14890.9	50°	13462.3	12077.7	10693.0	10690.4	10687.7	11306.6	11925.7
17143.5	52.5°	15375.9	13721.9	12068.0	12143.9	12219.7	12969.1	13718.7
19344.3	55°	17237.0	15396.4	13555.6	13851.1	14146.5	14887.0	15627.6
21476.3	57.5°	19089.5	17230.8	15372.1	15964.6	16557.1	16960.6	17363.8
24267.6	60°	21712.2	19953.2	18194.3	18930.1	19666.0	19039.5	18413.2
26791.4	62.5°	24360.1	22748.6	21137.3	21220.4	21303.3	19591.8	17880.3
27115.1	65°	24757.5	22709.7	20662.0	20344.3	20026.5	18420.2	16813.8
25373.0	67.5°	23005.3	20871.9	18738.3	18589.4	18440.4	16912.6	15384.9
22978.4	70°	20940.8	19033.0	17125.0	17058.3	16991.7	15329.8	13668.1
20043.4	72.5°	18517.4	17024.7	15531.9	15484.1	15436.2	13529.2	11622.3
16732.9	75°	15658.7	14497.3	13336.0	13158.8	12981.6	11007.9	9034.3
13174.5	77.5°	12412.6	11529.7	10646.8	10393.2	10139.6	8297.2	6454.8
9688.3	80°	9288.2	8621.7	7954.9	7639.7	7324.5	5774.7	4224.7
6364.3	82.5°	6197.4	5738.4	5279.5	4927.2	4575.2	3515.4	2455.8
3653.1	85°	3558.3	3181.4	2804.3	2504.8	2205.3	1642.9	1080.5
1431.9	87.5°	1423.8	1235.3	1046.7	879.6	712.5	523.5	334.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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