

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: P950071

Luminaire Tested: **GALN-SB4C-850-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950071
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-SB4C-850-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28607 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

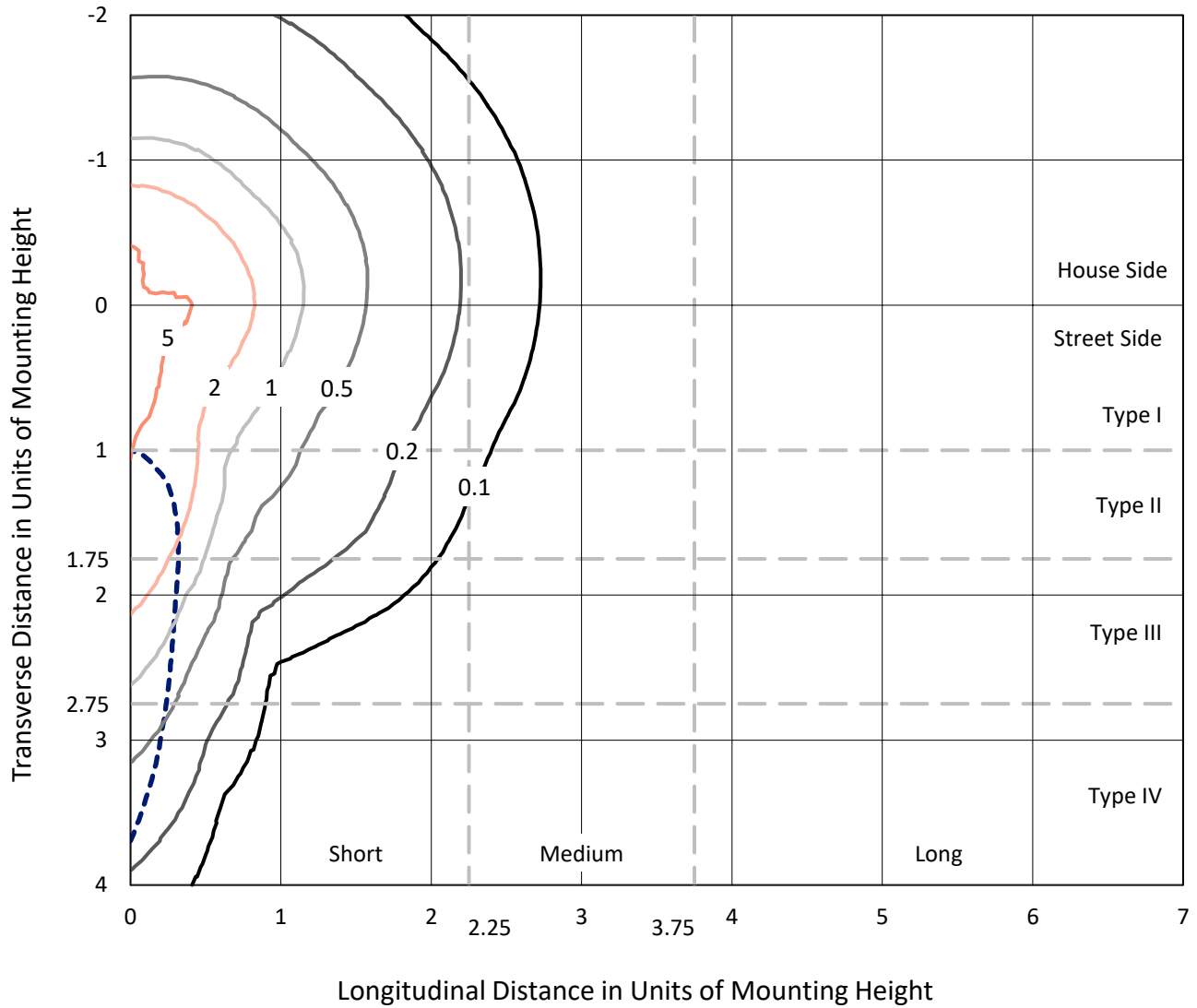
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

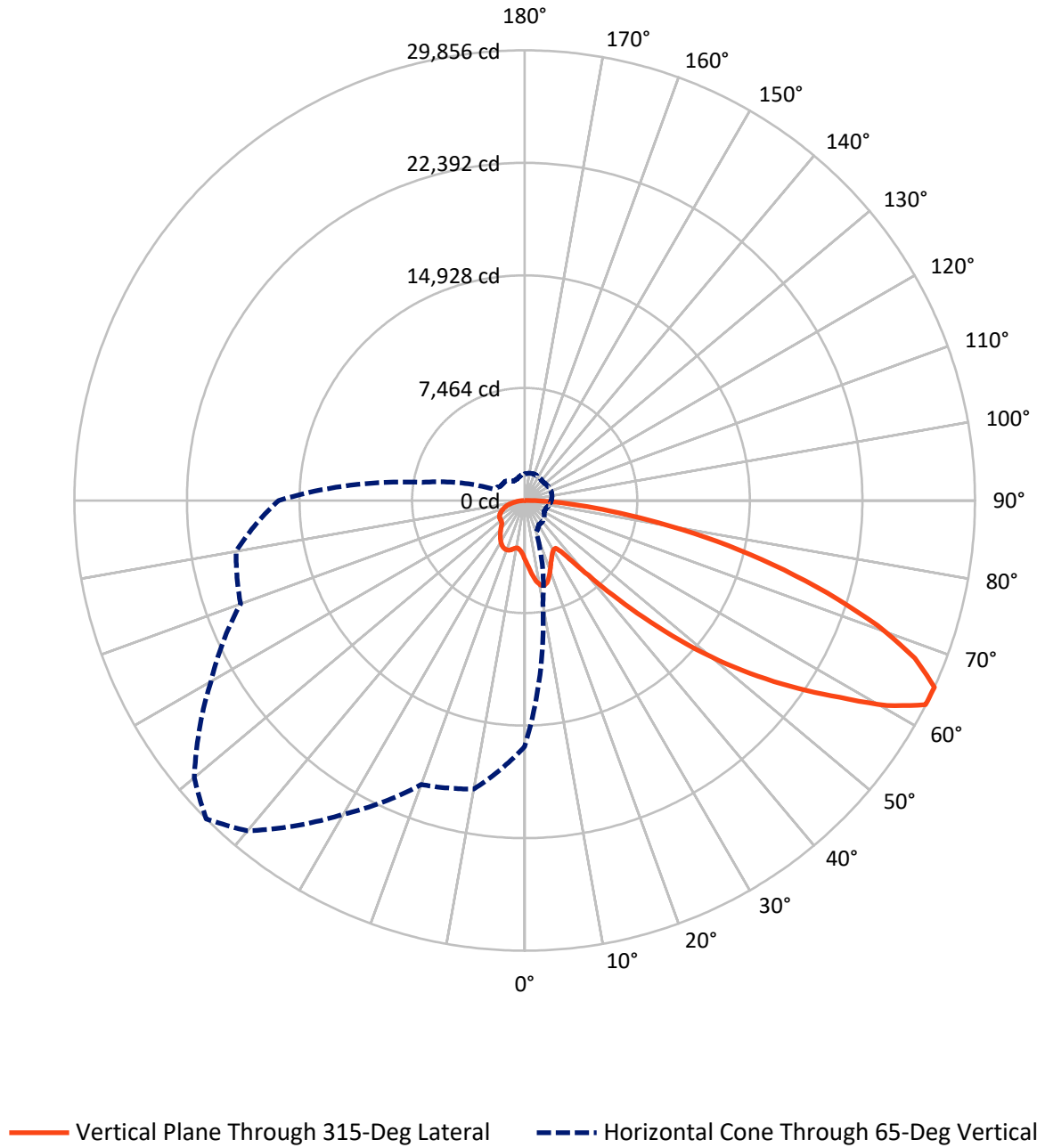
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	7270.5	0.0	7270.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21336.5	0.0	21336.5
	% Fixture	74.6	0.0	74.6
Total	Lumens	28607.0	0.0	28607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	1.4
10°-20°	1225.0	4.3
20°-30°	1892.2	6.6
30°-40°	2397.9	8.4
40°-50°	3616.6	12.6
50°-60°	5843.1	20.4
60°-70°	7284.4	25.5
70°-80°	4776.7	16.7
80°-90°	1180.9	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°	28607.0	100.0
0°-180°	28607.0	100.0



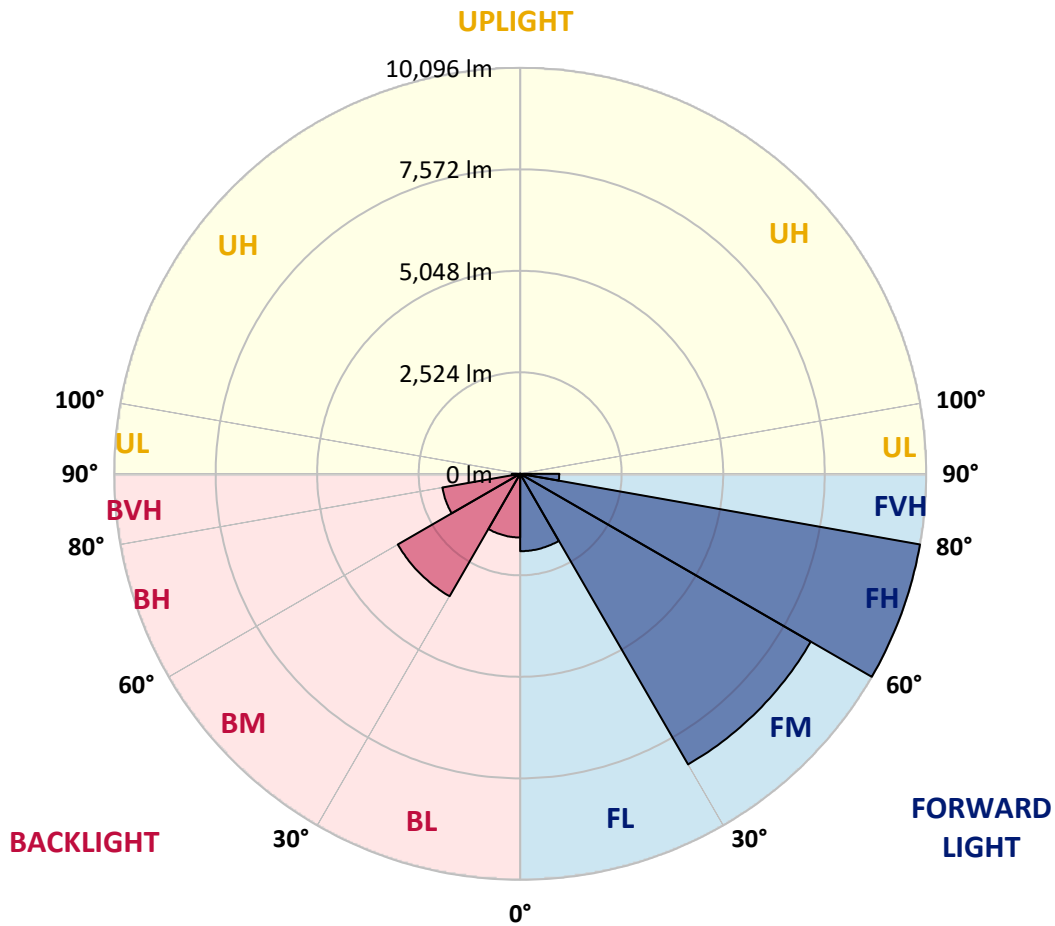
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1924.1	6.7			
FM (30°-60°)	8344.0	29.2			
FH (60°-80°)	10095.5	35.3			G4/12000
FVH (80°-90°)	972.8	3.4			G5
BL (0°-30°)	1583.2	5.5	B3/2500		
BM (30°-60°)	3513.5	12.3	B3/5000		
BH (60°-80°)	1965.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	208.1	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°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
2.5°	4230.3	4197.9	4165.4	4130.8	4096.4	4061.7	4027.0	3993.8	3960.6	3928.4
5°	4548.8	4477.1	4405.4	4333.9	4262.5	4190.5	4118.6	4051.4	3984.3	3920.9
7.5°	4868.8	4750.5	4632.3	4523.0	4413.7	4307.3	4200.9	4107.1	4013.4	3926.9
10°	5114.1	4964.5	4814.9	4670.5	4526.2	4397.0	4267.6	4156.8	4045.7	3939.0
12.5°	5264.3	5099.9	4935.7	4772.1	4608.4	4456.0	4303.5	4178.1	4052.7	3940.5
15°	5355.6	5184.3	5013.0	4835.5	4658.0	4482.4	4306.9	4161.6	4016.4	3892.2
17.5°	5407.0	5233.2	5059.5	4865.8	4672.1	4468.4	4264.6	4089.9	3915.3	3769.2
20°	5463.6	5283.0	5102.3	4889.5	4676.7	4429.7	4182.8	3966.3	3749.9	3579.7
22.5°	5529.2	5344.8	5160.2	4921.5	4682.7	4382.3	4081.9	3821.3	3560.6	3366.9
25°	5613.8	5432.9	5252.2	4979.5	4706.6	4335.5	3964.7	3659.3	3354.1	3155.6
27.5°	5728.5	5556.1	5383.6	5070.0	4756.4	4304.3	3852.2	3511.2	3170.2	2989.5
30°	5883.2	5716.6	5550.1	5187.3	4824.6	4289.6	3754.4	3387.4	3020.5	2868.8
32.5°	6065.9	5900.9	5736.0	5309.8	4883.5	4271.5	3659.3	3280.7	2902.0	2779.7
35°	6287.7	6129.9	5971.8	5449.2	4926.6	4237.4	3548.5	3175.8	2803.1	2701.2
37.5°	6661.3	6460.0	6258.6	5605.5	4952.3	4179.0	3405.7	3052.3	2699.0	2609.9
40°	7225.9	6932.4	6639.0	5803.8	4968.5	4098.5	3228.8	2905.0	2581.2	2500.5
42.5°	7974.6	7551.0	7127.5	6063.3	4999.1	4015.5	3032.2	2742.4	2452.6	2378.2
45°	8899.1	8327.8	7756.5	6404.7	5053.0	3938.4	2823.9	2569.7	2315.5	2240.1
47.5°	10055.4	9251.3	8447.1	6768.5	5090.0	3874.7	2659.4	2433.1	2206.9	2109.5
50°	11570.9	10358.7	9146.3	7106.0	5065.8	3805.3	2544.7	2342.4	2140.1	2012.1
52.5°	13310.6	11521.9	9733.1	7325.2	4917.1	3688.0	2458.9	2282.6	2106.5	1959.3
55°	15162.7	12553.2	9943.7	7276.9	4610.0	3493.5	2377.1	2239.3	2101.5	1964.6
57.5°	16847.3	13284.0	9720.8	6937.0	4153.3	3219.4	2285.4	2188.0	2090.6	1969.9
60°	17865.5	13466.7	9067.8	6304.3	3540.9	2863.5	2186.0	2109.5	2033.0	1953.3
62.5°	17348.5	12697.6	8046.7	5448.9	2851.1	2437.5	2023.9	1973.0	1922.3	1912.5
65°	16313.7	11609.4	6905.1	4576.1	2247.3	2054.3	1861.2	1837.2	1813.2	1814.4
67.5°	14927.3	10314.4	5701.6	3721.2	1740.7	1685.9	1631.0	1644.4	1657.7	1654.4
70°	13261.6	8901.4	4541.3	2929.9	1318.5	1334.2	1349.8	1412.0	1474.0	1474.0
72.5°	11276.6	7369.6	3462.8	2239.9	1017.1	1064.3	1111.7	1199.9	1287.9	1302.7
75°	8765.6	5613.6	2461.7	1625.7	789.8	832.6	875.5	974.2	1072.9	1141.2
77.5°	6262.8	3929.0	1595.2	1101.6	608.0	637.2	666.4	762.3	858.1	970.6
80°	4099.0	2531.4	963.8	709.8	455.9	467.9	480.0	561.2	642.3	776.6
82.5°	2382.7	1465.1	547.6	436.5	325.7	327.9	330.3	390.1	449.8	564.5
85°	1048.3	659.0	269.9	233.4	197.0	195.9	194.7	238.5	282.3	367.6
87.5°	324.5	215.9	107.2	96.8	86.3	85.3	84.2	102.0	120.0	155.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

50°		55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
3892.7	2.5°	3863.7	3834.8	3808.7	3782.8	3760.0	3737.2	3714.2	3691.4	3673.8	3656.0
3858.2	5°	3803.6	3748.8	3702.9	3657.2	3616.7	3576.3	3539.6	3502.8	3474.5	3446.1
3845.9	7.5°	3773.1	3700.5	3640.1	3579.7	3528.9	3477.8	3432.9	3388.0	3354.4	3320.9
3851.9	10°	3775.2	3698.5	3638.2	3577.8	3523.0	3468.0	3417.5	3366.9	3326.7	3286.4
3859.4	12.5°	3796.6	3734.2	3694.0	3654.2	3611.0	3568.1	3515.7	3463.5	3412.2	3360.9
3827.3	15°	3797.3	3767.4	3772.8	3778.2	3767.1	3755.9	3710.5	3665.0	3592.0	3518.9
3729.2	17.5°	3740.2	3751.1	3816.9	3882.7	3917.7	3952.6	3915.9	3879.4	3782.6	3685.9
3569.2	20°	3620.5	3671.8	3786.1	3900.5	3973.7	4046.9	4030.0	4013.0	3902.3	3791.8
3387.6	22.5°	3463.5	3539.4	3669.9	3800.6	3895.8	3991.1	4001.3	4011.4	3905.8	3800.1
3211.4	25°	3299.0	3386.5	3503.8	3621.2	3715.0	3808.7	3843.7	3878.6	3792.0	3705.5
3057.5	27.5°	3142.0	3226.5	3323.0	3419.3	3494.4	3569.6	3608.6	3647.7	3585.9	3524.3
2922.1	30°	2989.1	3056.4	3136.4	3216.4	3278.7	3341.2	3372.9	3404.6	3357.7	3310.6
2803.4	32.5°	2843.1	2882.8	2946.7	3010.7	3070.4	3130.4	3165.5	3200.9	3157.7	3114.4
2691.4	35°	2702.3	2713.3	2762.0	2810.7	2869.8	2929.1	2971.4	3013.7	2982.9	2952.2
2574.0	37.5°	2561.9	2549.8	2584.8	2619.7	2678.7	2737.9	2790.1	2842.4	2828.2	2814.0
2445.4	40°	2418.0	2390.7	2415.9	2441.1	2498.2	2555.3	2615.3	2675.6	2679.0	2682.3
2308.8	42.5°	2272.5	2236.3	2256.8	2277.5	2331.5	2385.7	2450.6	2515.6	2532.9	2550.3
2172.9	45°	2137.6	2102.4	2119.6	2137.1	2188.4	2239.8	2307.1	2374.4	2399.3	2424.2
2051.7	47.5°	2022.1	1992.5	2008.8	2025.0	2075.2	2125.3	2191.8	2258.2	2286.9	2315.5
1945.0	50°	1918.7	1892.6	1917.9	1943.5	1990.9	2038.1	2097.6	2157.0	2193.9	2230.7
1865.4	52.5°	1839.5	1813.6	1851.8	1889.9	1933.3	1976.7	2032.1	2087.6	2131.2	2174.9
1823.2	55°	1782.1	1741.2	1795.4	1849.4	1896.2	1943.0	1991.6	2040.1	2086.3	2132.6
1797.8	57.5°	1738.0	1678.2	1736.5	1794.8	1849.7	1904.7	1952.7	2000.8	2047.5	2094.0
1773.9	60°	1696.5	1618.9	1670.1	1721.1	1784.2	1847.3	1896.1	1945.0	1991.8	2038.6
1746.2	62.5°	1649.3	1552.5	1585.0	1617.4	1690.9	1764.6	1816.7	1868.7	1911.6	1954.5
1687.6	65°	1584.7	1481.6	1494.1	1506.5	1585.3	1664.2	1714.0	1763.8	1801.6	1839.3
1583.1	67.5°	1497.4	1411.7	1407.7	1403.8	1476.6	1549.5	1596.7	1643.8	1676.4	1709.0
1450.6	70°	1389.6	1328.6	1315.1	1301.5	1365.5	1429.5	1470.2	1511.0	1540.4	1569.9
1303.0	72.5°	1261.2	1219.4	1199.4	1179.7	1230.1	1280.3	1317.2	1354.0	1382.8	1411.7
1135.4	75°	1103.3	1071.0	1052.0	1032.8	1070.2	1107.7	1141.0	1174.4	1200.6	1226.9
967.6	77.5°	941.8	916.0	896.6	877.3	907.8	938.1	966.8	995.5	1023.1	1050.6
776.2	80°	754.6	732.9	716.7	700.4	725.8	751.0	775.1	799.3	820.3	841.1
570.9	82.5°	560.3	549.8	538.3	526.8	524.7	522.6	514.1	505.7	550.4	595.0
375.9	85°	364.5	353.2	340.4	327.6	316.7	305.7	282.3	258.9	300.7	342.7
166.0	87.5°	161.5	157.0	154.6	152.2	151.7	151.3	133.4	115.5	133.0	150.6
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):

105°		110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
3641.6	2.5°	3627.3	3616.1	3604.9	3594.7	3584.3	3571.4	3584.3	3594.7	3604.9	3616.1
3426.4	5°	3406.6	3392.6	3378.5	3367.8	3357.1	3346.5	3357.1	3367.8	3378.5	3392.6
3297.3	7.5°	3273.8	3257.6	3241.6	3232.0	3222.4	3215.2	3222.4	3232.0	3241.6	3257.6
3260.2	10°	3233.6	3218.4	3203.1	3195.0	3186.8	3183.5	3186.8	3195.0	3203.1	3218.4
3326.9	12.5°	3292.9	3275.9	3259.0	3252.0	3245.1	3243.9	3245.1	3252.0	3259.0	3275.9
3467.3	15°	3415.7	3392.0	3368.4	3359.4	3350.3	3349.5	3350.3	3359.4	3368.4	3392.0
3609.8	17.5°	3533.7	3498.7	3463.5	3452.0	3440.4	3438.6	3440.4	3452.0	3463.5	3498.7
3698.5	20°	3605.4	3560.6	3515.6	3501.2	3486.9	3482.4	3486.9	3501.2	3515.6	3560.6
3704.1	22.5°	3608.0	3560.7	3513.3	3497.5	3481.6	3474.8	3481.6	3497.5	3513.3	3560.7
3620.0	25°	3534.9	3493.8	3452.9	3438.0	3423.2	3414.4	3423.2	3438.0	3452.9	3493.8
3458.1	27.5°	3391.8	3364.3	3336.7	3329.9	3323.1	3320.9	3323.1	3329.9	3336.7	3364.3
3263.2	30°	3215.5	3201.5	3187.3	3187.3	3187.3	3189.5	3187.3	3187.3	3187.3	3201.5
3076.5	32.5°	3038.6	3029.4	3020.2	3021.4	3022.7	3025.0	3022.7	3021.4	3020.2	3029.4
2917.2	35°	2882.4	2868.3	2854.4	2851.4	2848.4	2846.9	2848.4	2851.4	2854.4	2868.3
2781.8	37.5°	2749.5	2724.0	2698.7	2685.2	2671.8	2664.2	2671.8	2685.2	2698.7	2724.0
2655.0	40°	2627.7	2590.6	2553.7	2528.7	2503.9	2489.1	2503.9	2528.7	2553.7	2590.6
2527.2	42.5°	2504.2	2458.2	2412.2	2375.8	2339.4	2315.5	2339.4	2375.8	2412.2	2458.2
2403.4	45°	2382.7	2330.0	2277.5	2234.8	2192.1	2164.6	2192.1	2234.8	2277.5	2330.0
2301.1	47.5°	2286.6	2239.8	2193.0	2153.4	2114.0	2087.6	2114.0	2153.4	2193.0	2239.8
2229.8	50°	2229.2	2191.8	2154.3	2117.8	2081.3	2055.9	2081.3	2117.8	2154.3	2191.8
2182.7	52.5°	2190.6	2160.1	2129.6	2096.8	2064.2	2040.8	2064.2	2096.8	2129.6	2160.1
2143.5	55°	2154.3	2127.8	2101.2	2072.5	2043.8	2022.7	2043.8	2072.5	2101.2	2127.8
2105.0	57.5°	2116.0	2089.1	2062.3	2033.9	2005.3	1983.5	2005.3	2033.9	2062.3	2089.1
2050.6	60°	2062.7	2036.4	2010.3	1981.0	1951.8	1929.1	1951.8	1981.0	2010.3	2036.4
1966.1	62.5°	1977.7	1954.0	1930.3	1899.5	1868.7	1841.6	1868.7	1899.5	1930.3	1954.0
1851.2	65°	1863.0	1840.2	1817.4	1787.5	1757.8	1734.4	1757.8	1787.5	1817.4	1840.2
1720.7	67.5°	1732.1	1711.1	1690.3	1662.5	1634.8	1613.6	1634.8	1662.5	1690.3	1711.1
1581.0	70°	1592.2	1575.1	1558.1	1531.5	1505.0	1480.8	1505.0	1531.5	1558.1	1575.1
1425.0	72.5°	1438.2	1424.0	1409.9	1384.5	1359.3	1335.9	1359.3	1384.5	1409.9	1424.0
1240.8	75°	1254.7	1247.7	1240.8	1219.5	1198.2	1175.9	1198.2	1219.5	1240.8	1247.7
1063.6	77.5°	1076.6	1066.9	1056.9	1035.5	1014.1	996.3	1014.1	1035.5	1056.9	1066.9
858.3	80°	875.5	871.3	867.2	838.4	809.4	775.9	809.4	838.4	867.2	871.3
624.3	82.5°	653.6	651.8	649.8	625.5	601.1	579.6	601.1	625.5	649.8	651.8
378.9	85°	415.1	412.1	409.1	390.1	371.0	351.7	371.0	390.1	409.1	412.1
165.3	87.5°	179.9	176.3	172.4	162.7	152.8	143.4	152.8	162.7	172.4	176.3
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
3627.3	2.5°	3641.6	3656.0	3673.8	3691.4	3714.2	3737.2	3760.0	3782.8	3808.7	3834.8
3406.6	5°	3426.4	3446.1	3474.5	3502.8	3539.6	3576.3	3616.7	3657.2	3702.9	3748.8
3273.8	7.5°	3297.3	3320.9	3354.4	3388.0	3432.9	3477.8	3528.9	3579.7	3640.1	3700.5
3233.6	10°	3260.2	3286.4	3326.7	3366.9	3417.5	3468.0	3523.0	3577.8	3638.2	3698.5
3292.9	12.5°	3326.9	3360.9	3412.2	3463.5	3515.7	3568.1	3611.0	3654.2	3694.0	3734.2
3415.7	15°	3467.3	3518.9	3592.0	3665.0	3710.5	3755.9	3767.1	3778.2	3772.8	3767.4
3533.7	17.5°	3609.8	3685.9	3782.6	3879.4	3915.9	3952.6	3917.7	3882.7	3816.9	3751.1
3605.4	20°	3698.5	3791.8	3902.3	4013.0	4030.0	4046.9	3973.7	3900.5	3786.1	3671.8
3608.0	22.5°	3704.1	3800.1	3905.8	4011.4	4001.3	3991.1	3895.8	3800.6	3669.9	3539.4
3534.9	25°	3620.0	3705.5	3792.0	3878.6	3843.7	3808.7	3715.0	3621.2	3503.8	3386.5
3391.8	27.5°	3458.1	3524.3	3585.9	3647.7	3608.6	3569.6	3494.4	3419.3	3323.0	3226.5
3215.5	30°	3263.2	3310.6	3357.7	3404.6	3372.9	3341.2	3278.7	3216.4	3136.4	3056.4
3038.6	32.5°	3076.5	3114.4	3157.7	3200.9	3165.5	3130.4	3070.4	3010.7	2946.7	2882.8
2882.4	35°	2917.2	2952.2	2982.9	3013.7	2971.4	2929.1	2869.8	2810.7	2762.0	2713.3
2749.5	37.5°	2781.8	2814.0	2828.2	2842.4	2790.1	2737.9	2678.7	2619.7	2584.8	2549.8
2627.7	40°	2655.0	2682.3	2679.0	2675.6	2615.3	2555.3	2498.2	2441.1	2415.9	2390.7
2504.2	42.5°	2527.2	2550.3	2532.9	2515.6	2450.6	2385.7	2331.5	2277.5	2256.8	2236.3
2382.7	45°	2403.4	2424.2	2399.3	2374.4	2307.1	2239.8	2188.4	2137.1	2119.6	2102.4
2286.6	47.5°	2301.1	2315.5	2286.9	2258.2	2191.8	2125.3	2075.2	2025.0	2008.8	1992.5
2229.2	50°	2229.8	2230.7	2193.9	2157.0	2097.6	2038.1	1990.9	1943.5	1917.9	1892.6
2190.6	52.5°	2182.7	2174.9	2131.2	2087.6	2032.1	1976.7	1933.3	1889.9	1851.8	1813.6
2154.3	55°	2143.5	2132.6	2086.3	2040.1	1991.6	1943.0	1896.2	1849.4	1795.4	1741.2
2116.0	57.5°	2105.0	2094.0	2047.5	2000.8	1952.7	1904.7	1849.7	1794.8	1736.5	1678.2
2062.7	60°	2050.6	2038.6	1991.8	1945.0	1896.1	1847.3	1784.2	1721.1	1670.1	1618.9
1977.7	62.5°	1966.1	1954.5	1911.6	1868.7	1816.7	1764.6	1690.9	1617.4	1585.0	1552.5
1863.0	65°	1851.2	1839.3	1801.6	1763.8	1714.0	1664.2	1585.3	1506.5	1494.1	1481.6
1732.1	67.5°	1720.7	1709.0	1676.4	1643.8	1596.7	1549.5	1476.6	1403.8	1407.7	1411.7
1592.2	70°	1581.0	1569.9	1540.4	1511.0	1470.2	1429.5	1365.5	1301.5	1315.1	1328.6
1438.2	72.5°	1425.0	1411.7	1382.8	1354.0	1317.2	1280.3	1230.1	1179.7	1199.4	1219.4
1254.7	75°	1240.8	1226.9	1200.6	1174.4	1141.0	1107.7	1070.2	1032.8	1052.0	1071.0
1076.6	77.5°	1063.6	1050.6	1023.1	995.5	966.8	938.1	907.8	877.3	896.6	916.0
875.5	80°	858.3	841.1	820.3	799.3	775.1	751.0	725.8	700.4	716.7	732.9
653.6	82.5°	624.3	595.0	550.4	505.7	514.1	522.6	524.7	526.8	538.3	549.8
415.1	85°	378.9	342.7	300.7	258.9	282.3	305.7	316.7	327.6	340.4	353.2
179.9	87.5°	165.3	150.6	133.0	115.5	133.4	151.3	151.7	152.2	154.6	157.0
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
3863.7	2.5°	3892.7	3928.4	3960.6	3993.8	4027.0	4061.7	4096.4	4130.8	4165.4	4197.9
3803.6	5°	3858.2	3920.9	3984.3	4051.4	4118.6	4190.5	4262.5	4333.9	4405.4	4477.1
3773.1	7.5°	3845.9	3926.9	4013.4	4107.1	4200.9	4307.3	4413.7	4523.0	4632.3	4750.5
3775.2	10°	3851.9	3939.0	4045.7	4156.8	4267.6	4397.0	4526.2	4670.5	4814.9	4964.5
3796.6	12.5°	3859.4	3940.5	4052.7	4178.1	4303.5	4456.0	4608.4	4772.1	4935.7	5099.9
3797.3	15°	3827.3	3892.2	4016.4	4161.6	4306.9	4482.4	4658.0	4835.5	5013.0	5184.3
3740.2	17.5°	3729.2	3769.2	3915.3	4089.9	4264.6	4468.4	4672.1	4865.8	5059.5	5233.2
3620.5	20°	3569.2	3579.7	3749.9	3966.3	4182.8	4429.7	4676.7	4889.5	5102.3	5283.0
3463.5	22.5°	3387.6	3366.9	3560.6	3821.3	4081.9	4382.3	4682.7	4921.5	5160.2	5344.8
3299.0	25°	3211.4	3155.6	3354.1	3659.3	3964.7	4335.5	4706.6	4979.5	5252.2	5432.9
3142.0	27.5°	3057.5	2989.5	3170.2	3511.2	3852.2	4304.3	4756.4	5070.0	5383.6	5556.1
2989.1	30°	2922.1	2868.8	3020.5	3387.4	3754.4	4289.6	4824.6	5187.3	5550.1	5716.6
2843.1	32.5°	2803.4	2779.7	2902.0	3280.7	3659.3	4271.5	4883.5	5309.8	5736.0	5900.9
2702.3	35°	2691.4	2701.2	2803.1	3175.8	3548.5	4237.4	4926.6	5449.2	5971.8	6129.9
2561.9	37.5°	2574.0	2609.9	2699.0	3052.3	3405.7	4179.0	4952.3	5605.5	6258.6	6460.0
2418.0	40°	2445.4	2500.5	2581.2	2905.0	3228.8	4098.5	4968.5	5803.8	6639.0	6932.4
2272.5	42.5°	2308.8	2378.2	2452.6	2742.4	3032.2	4015.5	4999.1	6063.3	7127.5	7551.0
2137.6	45°	2172.9	2240.1	2315.5	2569.7	2823.9	3938.4	5053.0	6404.7	7756.5	8327.8
2022.1	47.5°	2051.7	2109.5	2206.9	2433.1	2659.4	3874.7	5090.0	6768.5	8447.1	9251.3
1918.7	50°	1945.0	2012.1	2140.1	2342.4	2544.7	3805.3	5065.8	7106.0	9146.3	10358.7
1839.5	52.5°	1865.4	1959.3	2106.5	2282.6	2458.9	3688.0	4917.1	7325.2	9733.1	11521.9
1782.1	55°	1823.2	1964.6	2101.5	2239.3	2377.1	3493.5	4610.0	7276.9	9943.7	12553.2
1738.0	57.5°	1797.8	1969.9	2090.6	2188.0	2285.4	3219.4	4153.3	6937.0	9720.8	13284.0
1696.5	60°	1773.9	1953.3	2033.0	2109.5	2186.0	2863.5	3540.9	6304.3	9067.8	13466.7
1649.3	62.5°	1746.2	1912.5	1922.3	1973.0	2023.9	2437.5	2851.1	5448.9	8046.7	12697.6
1584.7	65°	1687.6	1814.4	1813.2	1837.2	1861.2	2054.3	2247.3	4576.1	6905.1	11609.4
1497.4	67.5°	1583.1	1654.4	1657.7	1644.4	1631.0	1685.9	1740.7	3721.2	5701.6	10314.4
1389.6	70°	1450.6	1474.0	1474.0	1412.0	1349.8	1334.2	1318.5	2929.9	4541.3	8901.4
1261.2	72.5°	1303.0	1302.7	1287.9	1199.9	1111.7	1064.3	1017.1	2239.9	3462.8	7369.6
1103.3	75°	1135.4	1141.2	1072.9	974.2	875.5	832.6	789.8	1625.7	2461.7	5613.6
941.8	77.5°	967.6	970.6	858.1	762.3	666.4	637.2	608.0	1101.6	1595.2	3929.0
754.6	80°	776.2	776.6	642.3	561.2	480.0	467.9	455.9	709.8	963.8	2531.4
560.3	82.5°	570.9	564.5	449.8	390.1	330.3	327.9	325.7	436.5	547.6	1465.1
364.5	85°	375.9	367.6	282.3	238.5	194.7	195.9	197.0	233.4	269.9	659.0
161.5	87.5°	166.0	155.5	120.0	102.0	84.2	85.3	86.3	96.8	107.2	215.9
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
4230.3	2.5°	4246.3	4262.5	4285.3	4308.1	4321.6	4335.2	4342.0	4348.8	4345.8	4348.8
4548.8	5°	4604.8	4661.0	4716.5	4772.2	4802.4	4832.6	4850.9	4869.3	4883.2	4869.3
4868.8	7.5°	4960.0	5051.0	5133.0	5215.0	5264.3	5313.7	5340.4	5367.0	5379.8	5367.0
5114.1	10°	5221.9	5329.7	5425.8	5522.0	5580.3	5638.2	5664.2	5690.0	5699.8	5690.0
5264.3	12.5°	5381.2	5497.8	5584.8	5671.4	5713.7	5756.0	5770.1	5784.3	5785.8	5784.3
5355.6	15°	5456.5	5557.2	5611.6	5666.3	5667.8	5669.3	5654.2	5639.1	5621.3	5639.1
5407.0	17.5°	5475.0	5543.1	5544.2	5545.1	5483.9	5422.8	5366.8	5310.7	5271.1	5310.7
5463.6	20°	5487.3	5511.1	5439.4	5367.7	5232.8	5097.8	4999.6	4901.3	4840.9	4901.3
5529.2	22.5°	5498.1	5467.0	5318.5	5170.0	4971.5	4773.0	4650.1	4527.2	4460.5	4527.2
5613.8	25°	5515.6	5417.5	5192.0	4966.5	4725.4	4484.4	4355.2	4226.2	4163.2	4226.2
5728.5	27.5°	5553.1	5377.5	5078.8	4780.2	4513.0	4245.9	4118.8	3991.8	3932.2	3991.8
5883.2	30°	5621.6	5360.2	4992.5	4624.7	4346.4	4068.1	3950.2	3832.3	3776.7	3832.3
6065.9	32.5°	5707.7	5349.6	4933.6	4517.6	4256.0	3994.4	3901.9	3809.2	3769.2	3809.2
6287.7	35°	5849.4	5411.2	4977.7	4544.3	4362.6	4181.0	4159.4	4137.8	4134.5	4137.8
6661.3	37.5°	6145.7	5630.1	5236.1	4842.1	4830.3	4818.6	4917.3	5016.0	5067.3	5016.0
7225.9	40°	6665.1	6104.3	5811.4	5518.4	5725.2	5932.0	6172.0	6412.0	6531.5	6412.0
7974.6	42.5°	7418.2	6861.8	6693.0	6524.3	6975.3	7426.3	7862.9	8299.4	8555.7	8299.4
8899.1	45°	8399.4	7899.4	7825.0	7750.4	8473.0	9195.8	9913.1	10630.5	11066.0	10630.5
10055.4	47.5°	9569.2	9082.9	9067.8	9052.7	10095.1	11137.3	12187.4	13237.4	13854.0	13237.4
11570.9	50°	10970.3	10369.8	10372.4	10375.0	11718.4	13061.8	14448.0	15834.2	16672.2	15834.2
13310.6	52.5°	12583.3	11856.2	11782.7	11709.0	13313.8	14918.5	16633.6	18348.5	19353.1	18348.5
15162.7	55°	14444.2	13725.7	13439.1	13152.4	14938.4	16724.3	18768.9	20813.5	22008.2	20813.5
16847.3	57.5°	16456.1	16064.7	15489.7	14914.9	16718.3	18521.6	20837.5	23153.2	24634.7	23153.2
17865.5	60°	18473.2	19081.1	18367.1	17653.1	19359.7	21066.3	23545.8	26025.3	27626.5	26025.3
17348.5	62.5°	19009.1	20669.6	20589.2	20508.6	22071.9	23635.5	25994.5	28353.3	29833.4	28353.3
16313.7	65°	17872.3	19430.8	19739.2	20047.4	22034.2	24021.1	26308.6	28595.9	29856.0	28595.9
14927.3	67.5°	16409.6	17891.9	18036.5	18181.0	20251.1	22321.0	24618.3	26915.6	27902.8	26915.6
13261.6	70°	14873.8	16486.3	16550.9	16615.6	18466.8	20317.9	22294.9	24271.7	24820.4	24271.7
11276.6	72.5°	13126.8	14977.1	15023.6	15069.9	16518.3	17966.6	19447.3	20927.8	20983.3	20927.8
8765.6	75°	10680.5	12595.4	12767.3	12939.3	14066.1	15192.9	16235.2	17277.5	16998.3	17277.5
6262.8	77.5°	8050.4	9838.0	10084.1	10330.1	11186.8	12043.4	12782.6	13521.9	13041.9	13521.9
4099.0	80°	5602.9	7106.6	7412.5	7718.3	8365.2	9011.9	9400.1	9788.2	9016.1	9788.2
2382.7	82.5°	3410.8	4439.1	4780.7	5122.4	5567.7	6013.0	6175.0	6336.8	5730.0	6336.8
1048.3	85°	1594.0	2139.7	2430.3	2720.8	3086.7	3452.5	3544.4	3636.3	3150.3	3636.3
324.5	87.5°	507.9	691.3	853.5	1015.6	1198.5	1381.5	1389.3	1397.0	1172.9	1397.0
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):

325°		330°	335°	340°	345°	350°	355°	360°
3933.7	0°	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7	3933.7
4342.0	2.5°	4335.2	4321.6	4308.1	4285.3	4262.5	4246.3	4230.3
4850.9	5°	4832.6	4802.4	4772.2	4716.5	4661.0	4604.8	4548.8
5340.4	7.5°	5313.7	5264.3	5215.0	5133.0	5051.0	4960.0	4868.8
5664.2	10°	5638.2	5580.3	5522.0	5425.8	5329.7	5221.9	5114.1
5770.1	12.5°	5756.0	5713.7	5671.4	5584.8	5497.8	5381.2	5264.3
5654.2	15°	5669.3	5667.8	5666.3	5611.6	5557.2	5456.5	5355.6
5366.8	17.5°	5422.8	5483.9	5545.1	5544.2	5543.1	5475.0	5407.0
4999.6	20°	5097.8	5232.8	5367.7	5439.4	5511.1	5487.3	5463.6
4650.1	22.5°	4773.0	4971.5	5170.0	5318.5	5467.0	5498.1	5529.2
4355.2	25°	4484.4	4725.4	4966.5	5192.0	5417.5	5515.6	5613.8
4118.8	27.5°	4245.9	4513.0	4780.2	5078.8	5377.5	5553.1	5728.5
3950.2	30°	4068.1	4346.4	4624.7	4992.5	5360.2	5621.6	5883.2
3901.9	32.5°	3994.4	4256.0	4517.6	4933.6	5349.6	5707.7	6065.9
4159.4	35°	4181.0	4362.6	4544.3	4977.7	5411.2	5849.4	6287.7
4917.3	37.5°	4818.6	4830.3	4842.1	5236.1	5630.1	6145.7	6661.3
6172.0	40°	5932.0	5725.2	5518.4	5811.4	6104.3	6665.1	7225.9
7862.9	42.5°	7426.3	6975.3	6524.3	6693.0	6861.8	7418.2	7974.6
9913.1	45°	9195.8	8473.0	7750.4	7825.0	7899.4	8399.4	8899.1
12187.4	47.5°	11137.3	10095.1	9052.7	9067.8	9082.9	9569.2	10055.4
14448.0	50°	13061.8	11718.4	10375.0	10372.4	10369.8	10970.3	11570.9
16633.6	52.5°	14918.5	13313.8	11709.0	11782.7	11856.2	12583.3	13310.6
18768.9	55°	16724.3	14938.4	13152.4	13439.1	13725.7	14444.2	15162.7
20837.5	57.5°	18521.6	16718.3	14914.9	15489.7	16064.7	16456.1	16847.3
23545.8	60°	21066.3	19359.7	17653.1	18367.1	19081.1	18473.2	17865.5
25994.5	62.5°	23635.5	22071.9	20508.6	20589.2	20669.6	19009.1	17348.5
26308.6	65°	24021.1	22034.2	20047.4	19739.2	19430.8	17872.3	16313.7
24618.3	67.5°	22321.0	20251.1	18181.0	18036.5	17891.9	16409.6	14927.3
22294.9	70°	20317.9	18466.8	16615.6	16550.9	16486.3	14873.8	13261.6
19447.3	72.5°	17966.6	16518.3	15069.9	15023.6	14977.1	13126.8	11276.6
16235.2	75°	15192.9	14066.1	12939.3	12767.3	12595.4	10680.5	8765.6
12782.6	77.5°	12043.4	11186.8	10330.1	10084.1	9838.0	8050.4	6262.8
9400.1	80°	9011.9	8365.2	7718.3	7412.5	7106.6	5602.9	4099.0
6175.0	82.5°	6013.0	5567.7	5122.4	4780.7	4439.1	3410.8	2382.7
3544.4	85°	3452.5	3086.7	2720.8	2430.3	2139.7	1594.0	1048.3
1389.3	87.5°	1381.5	1198.5	1015.6	853.5	691.3	507.9	324.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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