

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: P953578

Luminaire Tested: **GALN-SB7A-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953578
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-830-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28562 lumens
Efficiency: N/A
Efficacy: 143.5 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

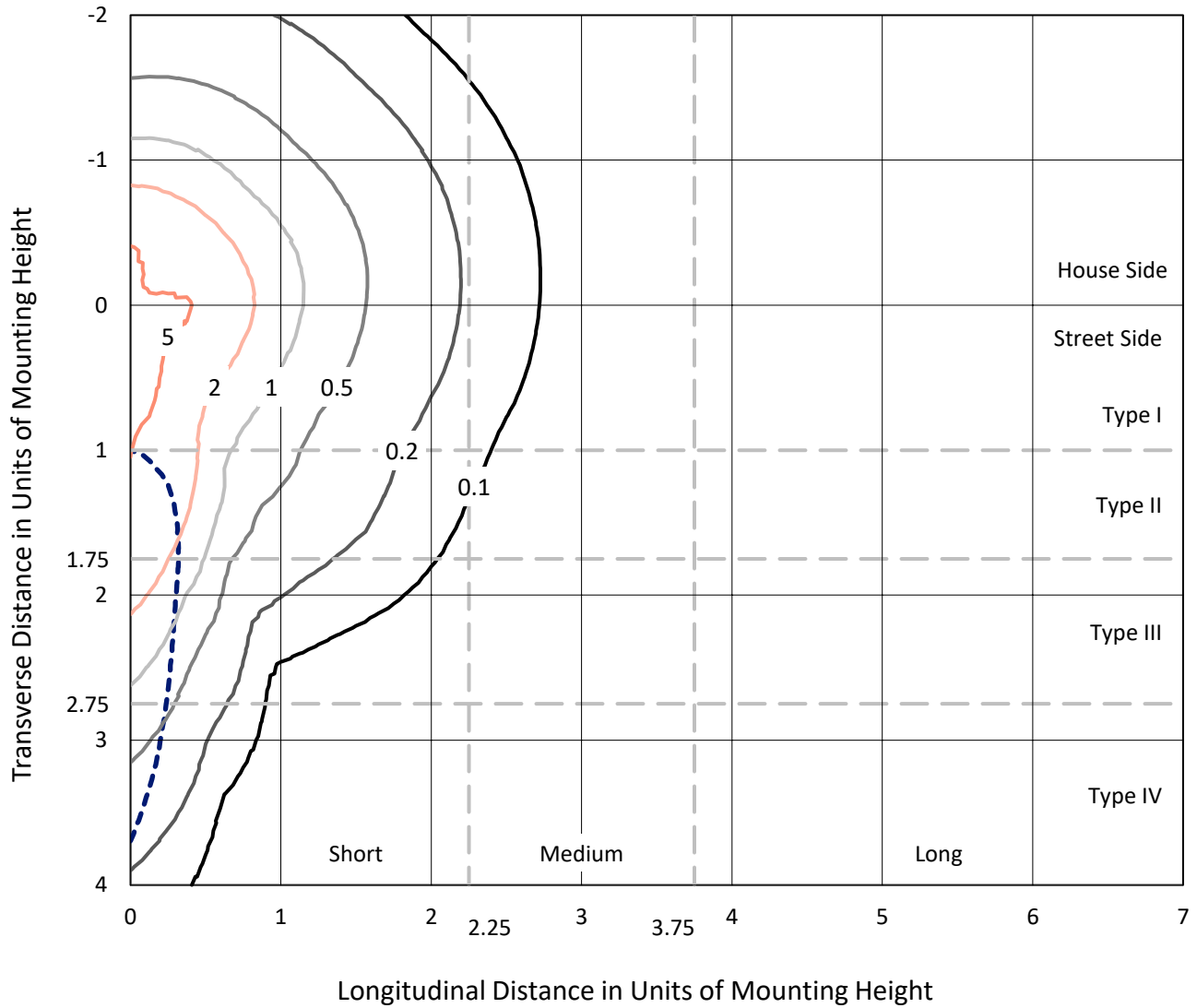
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

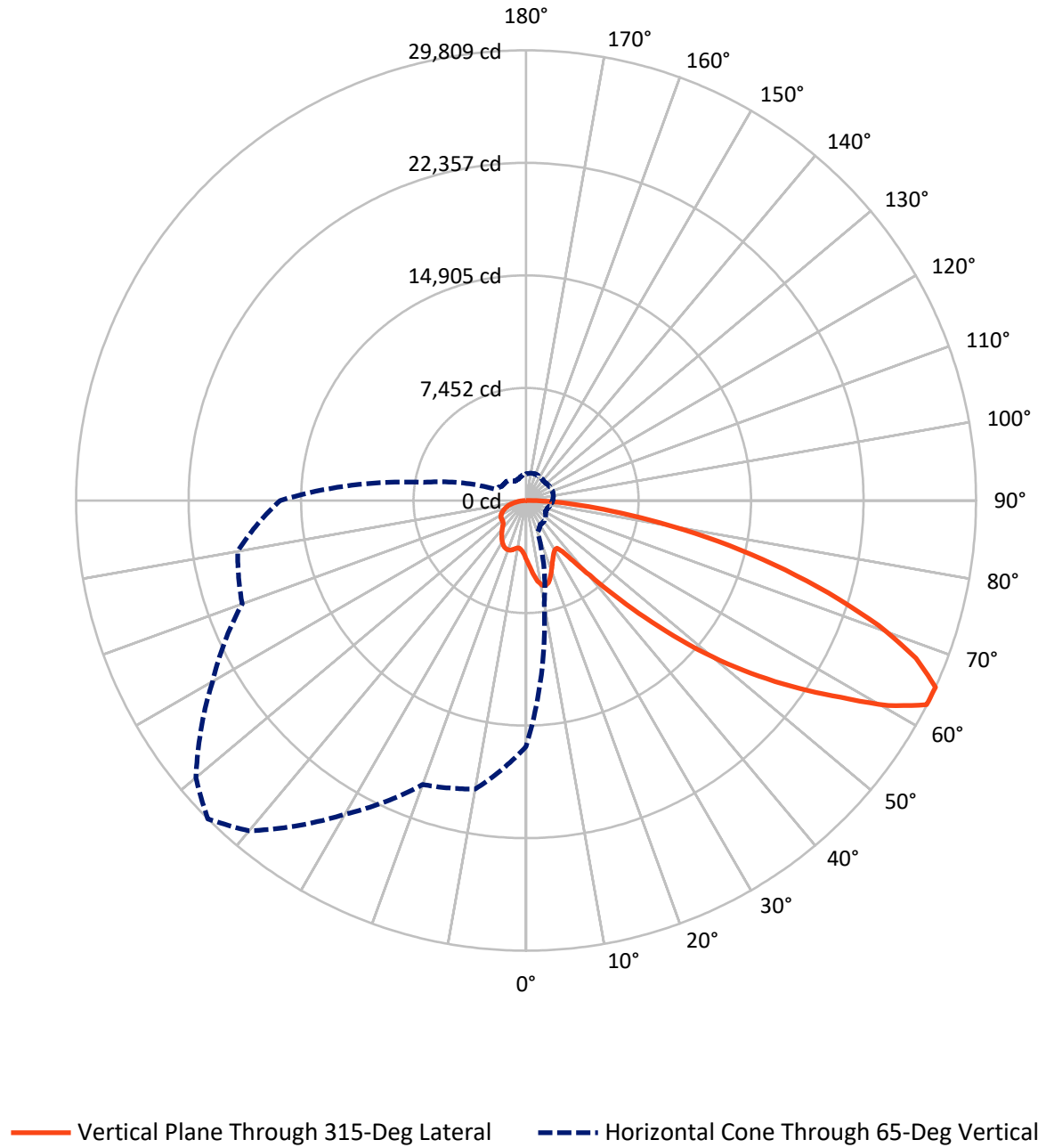
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	7259.0	0.0	7259.0
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21303.0	0.0	21303.0
	% Fixture	74.6	0.0	74.6
Total	Lumens	28562.0	0.0	28562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.6	1.4
10°-20°	1223.1	4.3
20°-30°	1889.2	6.6
30°-40°	2394.1	8.4
40°-50°	3610.9	12.6
50°-60°	5833.9	20.4
60°-70°	7272.9	25.5
70°-80°	4769.2	16.7
80°-90°	1179.1	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°	28562.0	100.0
0°-180°	28562.0	100.0



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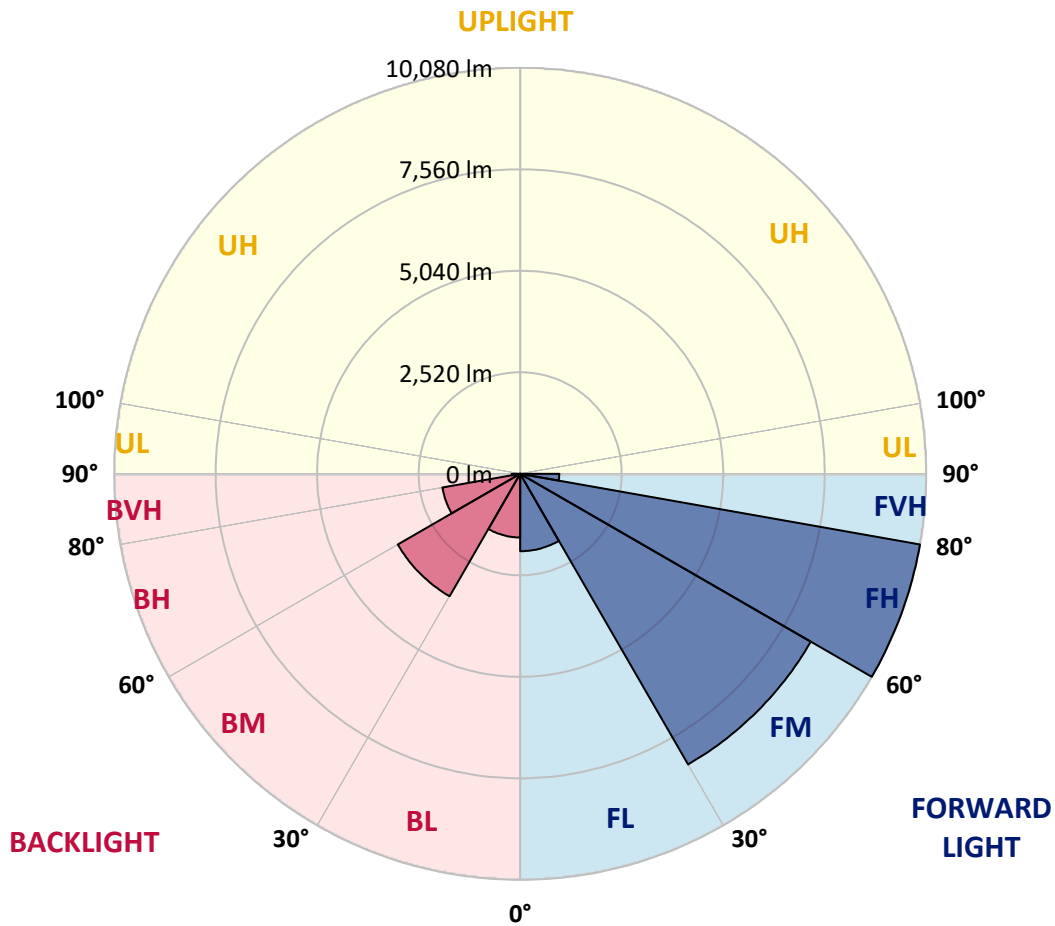
CATALOG NUMBER: GALN-SB7A-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1921.1	6.7			
FM (30°-60°)	8330.9	29.2			
FH (60°-80°)	10079.6	35.3			G4/12000
FVH (80°-90°)	971.3	3.4			G5
BL (0°-30°)	1580.7	5.5	B3/2500		
BM (30°-60°)	3508.0	12.3	B3/5000		
BH (60°-80°)	1962.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	207.8	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°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
2.5°	4223.7	4191.3	4158.9	4124.3	4090.0	4055.3	4020.7	3987.5	3954.3	3922.2
5°	4541.7	4470.1	4398.5	4327.1	4255.8	4183.9	4112.1	4045.1	3978.0	3914.7
7.5°	4861.2	4743.0	4625.0	4515.9	4406.8	4300.5	4194.3	4100.7	4007.1	3920.7
10°	5106.1	4956.7	4807.4	4663.1	4519.1	4390.1	4260.9	4150.3	4039.3	3932.8
12.5°	5256.0	5091.9	4927.9	4764.6	4601.2	4449.0	4296.8	4171.5	4046.3	3934.3
15°	5347.2	5176.2	5005.1	4827.9	4650.6	4475.4	4300.1	4155.1	4010.1	3886.1
17.5°	5398.5	5225.0	5051.5	4858.2	4664.8	4461.3	4257.9	4083.5	3909.1	3763.2
20°	5455.0	5274.7	5094.3	4881.8	4669.3	4422.8	4176.2	3960.1	3744.0	3574.1
22.5°	5520.5	5336.4	5152.0	4913.8	4675.3	4375.4	4075.5	3815.2	3555.0	3361.6
25°	5604.9	5424.4	5244.0	4971.6	4699.2	4328.7	3958.4	3653.5	3348.8	3150.6
27.5°	5719.5	5547.4	5375.1	5062.1	4748.9	4297.5	3846.1	3505.7	3165.2	2984.8
30°	5873.9	5707.6	5541.3	5179.2	4817.0	4282.9	3748.5	3382.1	3015.7	2864.3
32.5°	6056.3	5891.6	5727.0	5301.4	4875.8	4264.8	3653.5	3275.5	2897.4	2775.3
35°	6277.9	6120.2	5962.4	5440.7	4918.9	4230.8	3542.9	3170.8	2798.7	2697.0
37.5°	6650.9	6449.8	6248.8	5596.6	4944.5	4172.4	3400.3	3047.5	2694.7	2605.8
40°	7214.5	6921.5	6628.6	5794.7	4960.6	4092.1	3223.7	2900.4	2577.2	2496.5
42.5°	7962.0	7539.2	7116.3	6053.7	4991.2	4009.2	3027.5	2738.1	2448.7	2374.4
45°	8885.1	8314.7	7744.3	6394.7	5045.0	3932.2	2819.5	2565.7	2311.9	2236.5
47.5°	10039.6	9236.8	8433.8	6757.9	5082.0	3868.6	2655.2	2429.3	2203.4	2106.2
50°	11552.7	10342.4	9131.9	7094.9	5057.9	3799.3	2540.7	2338.7	2136.8	2009.0
52.5°	13289.7	11503.7	9717.8	7313.7	4909.4	3682.2	2455.1	2279.0	2103.2	1956.2
55°	15138.9	12533.4	9928.1	7265.5	4602.7	3488.0	2373.4	2235.8	2098.2	1961.5
57.5°	16820.8	13263.1	9705.5	6926.1	4146.8	3214.4	2281.8	2184.6	2087.3	1966.8
60°	17837.4	13445.5	9053.5	6294.4	3535.4	2859.0	2182.6	2106.2	2029.8	1950.2
62.5°	17321.2	12677.6	8034.1	5440.4	2846.6	2433.7	2020.7	1969.9	1919.3	1909.5
65°	16288.1	11591.2	6894.3	4568.9	2243.8	2051.0	1858.3	1834.3	1810.3	1811.5
67.5°	14903.8	10298.2	5692.6	3715.3	1738.0	1683.3	1628.4	1641.8	1655.1	1651.8
70°	13240.7	8887.4	4534.1	2925.3	1316.5	1332.1	1347.7	1409.7	1471.7	1471.7
72.5°	11258.8	7358.0	3457.3	2236.4	1015.5	1062.7	1110.0	1198.0	1285.9	1300.6
75°	8751.8	5604.8	2457.8	1623.2	788.5	831.3	874.1	972.7	1071.3	1139.4
77.5°	6253.0	3922.8	1592.7	1099.9	607.1	636.1	665.4	761.1	856.8	969.1
80°	4092.5	2527.4	962.3	708.6	455.1	467.2	479.3	560.3	641.3	775.4
82.5°	2379.0	1462.8	546.8	435.9	325.2	327.3	329.8	389.4	449.1	563.7
85°	1046.7	658.0	269.5	233.0	196.7	195.6	194.4	238.1	281.8	367.0
87.5°	324.0	215.5	107.0	96.6	86.2	85.2	84.1	101.9	119.8	155.2
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°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
3886.5	2.5°	3857.6	3828.8	3802.7	3776.8	3754.1	3731.3	3708.4	3685.6	3668.0	3650.2
3852.2	5°	3797.6	3742.9	3697.1	3651.4	3611.0	3570.6	3534.0	3497.2	3469.1	3440.7
3839.8	7.5°	3767.2	3694.7	3634.4	3574.1	3523.3	3472.4	3427.5	3382.7	3349.1	3315.6
3845.8	10°	3769.3	3692.7	3632.4	3572.1	3517.4	3462.6	3412.1	3361.6	3321.5	3281.3
3853.4	12.5°	3790.7	3728.3	3688.2	3648.4	3605.3	3562.5	3510.2	3458.1	3406.8	3355.6
3821.3	15°	3791.3	3761.4	3766.9	3772.3	3761.1	3750.0	3704.6	3659.3	3586.3	3513.4
3723.3	17.5°	3734.3	3745.2	3810.9	3876.6	3911.5	3946.4	3909.7	3873.3	3776.7	3680.1
3563.6	20°	3614.8	3666.0	3780.1	3894.4	3967.5	4040.6	4023.7	4006.6	3896.2	3785.9
3382.2	22.5°	3458.1	3533.9	3664.1	3794.6	3889.7	3984.8	3995.0	4005.1	3899.6	3794.1
3206.4	25°	3293.8	3381.2	3498.3	3615.5	3709.1	3802.7	3837.7	3872.5	3786.0	3699.6
3052.6	27.5°	3137.0	3221.4	3317.7	3413.9	3489.0	3564.0	3602.9	3641.9	3580.3	3518.8
2917.5	30°	2984.4	3051.6	3131.5	3211.3	3273.6	3336.0	3367.6	3399.3	3352.4	3305.4
2799.0	32.5°	2838.6	2878.3	2942.0	3005.9	3065.6	3125.4	3160.6	3195.8	3152.7	3109.5
2687.2	35°	2698.0	2709.0	2757.7	2806.2	2865.3	2924.5	2966.7	3008.9	2978.2	2947.6
2569.9	37.5°	2557.9	2545.8	2580.8	2615.6	2674.5	2733.6	2785.7	2837.9	2823.7	2809.5
2441.5	40°	2414.2	2387.0	2412.1	2437.3	2494.3	2551.2	2611.2	2671.3	2674.8	2678.1
2305.1	42.5°	2268.9	2232.8	2253.3	2273.9	2327.9	2382.0	2446.8	2511.6	2528.9	2546.3
2169.5	45°	2134.2	2099.1	2116.3	2133.8	2185.0	2236.2	2303.5	2370.7	2395.5	2420.4
2048.5	47.5°	2018.9	1989.4	2005.7	2021.8	2072.0	2122.0	2188.3	2254.6	2283.3	2311.9
1941.9	50°	1915.7	1889.6	1914.9	1940.4	1987.7	2034.9	2094.3	2153.7	2190.4	2227.2
1862.5	52.5°	1836.6	1810.8	1848.9	1886.9	1930.3	1973.6	2028.9	2084.3	2127.9	2171.4
1820.3	55°	1779.3	1738.4	1792.6	1846.5	1893.2	1939.9	1988.5	2036.9	2083.0	2129.2
1795.0	57.5°	1735.3	1675.6	1733.8	1792.0	1846.8	1901.7	1949.6	1997.7	2044.2	2090.7
1771.2	60°	1693.8	1616.4	1667.5	1718.4	1781.4	1844.4	1893.1	1941.9	1988.6	2035.3
1743.4	62.5°	1646.7	1550.1	1582.5	1614.9	1688.3	1761.8	1813.8	1865.8	1908.6	1951.4
1684.9	65°	1582.2	1479.2	1491.7	1504.1	1582.8	1661.6	1711.3	1761.1	1798.7	1836.4
1580.7	67.5°	1495.1	1409.4	1405.5	1401.6	1474.3	1547.0	1594.2	1641.2	1673.8	1706.3
1448.3	70°	1387.4	1326.6	1313.0	1299.4	1363.3	1427.2	1467.9	1508.6	1538.0	1567.4
1300.9	72.5°	1259.2	1217.4	1197.5	1177.8	1228.1	1278.3	1315.1	1351.9	1380.7	1409.4
1133.6	75°	1101.5	1069.3	1050.3	1031.2	1068.5	1105.9	1139.2	1172.5	1198.8	1225.0
966.1	77.5°	940.3	914.5	895.2	875.9	906.4	936.7	965.3	993.9	1021.5	1048.9
775.0	80°	753.4	731.7	715.6	699.3	724.6	749.8	773.9	798.0	819.0	839.8
570.0	82.5°	559.4	548.9	537.4	526.0	523.9	521.8	513.3	504.9	549.5	594.1
375.3	85°	364.0	352.7	339.9	327.0	316.2	305.2	281.8	258.5	300.2	342.1
165.8	87.5°	161.3	156.7	154.3	151.9	151.5	151.0	133.2	115.3	132.8	150.4
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°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
3635.9	2.5°	3621.6	3610.4	3599.3	3589.0	3578.6	3565.8	3578.6	3589.0	3599.3	3610.4
3421.0	5°	3401.2	3387.2	3373.2	3362.5	3351.8	3341.3	3351.8	3362.5	3373.2	3387.2
3292.1	7.5°	3268.6	3252.5	3236.5	3226.9	3217.4	3210.1	3217.4	3226.9	3236.5	3252.5
3255.0	10°	3228.5	3213.3	3198.1	3189.9	3181.8	3178.5	3181.8	3189.9	3198.1	3213.3
3321.7	12.5°	3287.8	3270.7	3253.8	3246.9	3240.0	3238.8	3240.0	3246.9	3253.8	3270.7
3461.8	15°	3410.3	3386.6	3363.1	3354.1	3345.0	3344.3	3345.0	3354.1	3363.1	3386.6
3604.1	17.5°	3528.1	3493.2	3458.1	3446.6	3435.0	3433.2	3435.0	3446.6	3458.1	3493.2
3692.7	20°	3599.7	3555.0	3510.1	3495.7	3481.4	3476.9	3481.4	3495.7	3510.1	3555.0
3698.3	22.5°	3602.3	3555.1	3507.8	3492.0	3476.1	3469.4	3476.1	3492.0	3507.8	3555.1
3614.3	25°	3529.3	3488.3	3447.5	3432.6	3417.8	3409.1	3417.8	3432.6	3447.5	3488.3
3452.6	27.5°	3386.5	3359.0	3331.5	3324.7	3317.9	3315.6	3317.9	3324.7	3331.5	3359.0
3258.1	30°	3210.4	3196.4	3182.3	3182.3	3182.3	3184.5	3182.3	3182.3	3182.3	3196.4
3071.6	32.5°	3033.8	3024.6	3015.4	3016.6	3018.0	3020.2	3018.0	3016.6	3015.4	3024.6
2912.6	35°	2877.8	2863.8	2849.9	2846.9	2843.9	2842.4	2843.9	2846.9	2849.9	2863.8
2777.4	37.5°	2745.2	2719.7	2694.4	2681.0	2667.6	2660.0	2667.6	2681.0	2694.4	2719.7
2650.9	40°	2623.6	2586.5	2549.7	2524.7	2500.0	2485.2	2500.0	2524.7	2549.7	2586.5
2523.2	42.5°	2500.3	2454.3	2408.4	2372.0	2335.7	2311.9	2335.7	2372.0	2408.4	2454.3
2399.6	45°	2379.0	2326.4	2273.9	2231.3	2188.6	2161.2	2188.6	2231.3	2273.9	2326.4
2297.4	47.5°	2283.0	2236.2	2189.5	2150.0	2110.7	2084.3	2110.7	2150.0	2189.5	2236.2
2226.3	50°	2225.7	2188.3	2150.9	2114.5	2078.0	2052.7	2078.0	2114.5	2150.9	2188.3
2179.3	52.5°	2187.1	2156.7	2126.2	2093.5	2061.0	2037.6	2061.0	2093.5	2126.2	2156.7
2140.1	55°	2150.9	2124.4	2097.9	2069.3	2040.6	2019.5	2040.6	2069.3	2097.9	2124.4
2101.7	57.5°	2112.7	2085.8	2059.0	2030.7	2002.2	1980.3	2002.2	2030.7	2059.0	2085.8
2047.4	60°	2059.5	2033.2	2007.2	1977.9	1948.7	1926.1	1948.7	1977.9	2007.2	2033.2
1963.0	62.5°	1974.6	1951.0	1927.3	1896.5	1865.8	1838.7	1865.8	1896.5	1927.3	1951.0
1848.3	65°	1860.1	1837.3	1814.6	1784.7	1755.0	1731.7	1755.0	1784.7	1814.6	1837.3
1718.0	67.5°	1729.4	1708.5	1687.7	1659.9	1632.2	1611.1	1632.2	1659.9	1687.7	1708.5
1578.5	70°	1589.7	1572.7	1555.6	1529.1	1502.6	1478.5	1502.6	1529.1	1555.6	1572.7
1422.7	72.5°	1436.0	1421.8	1407.6	1382.3	1357.1	1333.8	1357.1	1382.3	1407.6	1421.8
1238.8	75°	1252.7	1245.8	1238.8	1217.6	1196.3	1174.0	1196.3	1217.6	1238.8	1245.8
1061.9	77.5°	1074.9	1065.2	1055.3	1033.9	1012.5	994.7	1012.5	1033.9	1055.3	1065.2
856.9	80°	874.1	869.9	865.8	837.0	808.1	774.7	808.1	837.0	865.8	869.9
623.3	82.5°	652.6	650.8	648.8	624.5	600.1	578.7	600.1	624.5	648.8	650.8
378.3	85°	414.5	411.4	408.4	389.4	370.4	351.2	370.4	389.4	408.4	411.4
165.0	87.5°	179.6	176.0	172.1	162.5	152.5	143.2	152.5	162.5	172.1	176.0
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):

160°		165°	170°	175°	180°	185°	190°	195°	200°	205°	210°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
3621.6	2.5°	3635.9	3650.2	3668.0	3685.6	3708.4	3731.3	3754.1	3776.8	3802.7	3828.8
3401.2	5°	3421.0	3440.7	3469.1	3497.2	3534.0	3570.6	3611.0	3651.4	3697.1	3742.9
3268.6	7.5°	3292.1	3315.6	3349.1	3382.7	3427.5	3472.4	3523.3	3574.1	3634.4	3694.7
3228.5	10°	3255.0	3281.3	3321.5	3361.6	3412.1	3462.6	3517.4	3572.1	3632.4	3692.7
3287.8	12.5°	3321.7	3355.6	3406.8	3458.1	3510.2	3562.5	3605.3	3648.4	3688.2	3728.3
3410.3	15°	3461.8	3513.4	3586.3	3659.3	3704.6	3750.0	3761.1	3772.3	3766.9	3761.4
3528.1	17.5°	3604.1	3680.1	3776.7	3873.3	3909.7	3946.4	3911.5	3876.6	3810.9	3745.2
3599.7	20°	3692.7	3785.9	3896.2	4006.6	4023.7	4040.6	3967.5	3894.4	3780.1	3666.0
3602.3	22.5°	3698.3	3794.1	3899.6	4005.1	3995.0	3984.8	3889.7	3794.6	3664.1	3533.9
3529.3	25°	3614.3	3699.6	3786.0	3872.5	3837.7	3802.7	3709.1	3615.5	3498.3	3381.2
3386.5	27.5°	3452.6	3518.8	3580.3	3641.9	3602.9	3564.0	3489.0	3413.9	3317.7	3221.4
3210.4	30°	3258.1	3305.4	3352.4	3399.3	3367.6	3336.0	3273.6	3211.3	3131.5	3051.6
3033.8	32.5°	3071.6	3109.5	3152.7	3195.8	3160.6	3125.4	3065.6	3005.9	2942.0	2878.3
2877.8	35°	2912.6	2947.6	2978.2	3008.9	2966.7	2924.5	2865.3	2806.2	2757.7	2709.0
2745.2	37.5°	2777.4	2809.5	2823.7	2837.9	2785.7	2733.6	2674.5	2615.6	2580.8	2545.8
2623.6	40°	2650.9	2678.1	2674.8	2671.3	2611.2	2551.2	2494.3	2437.3	2412.1	2387.0
2500.3	42.5°	2523.2	2546.3	2528.9	2511.6	2446.8	2382.0	2327.9	2273.9	2253.3	2232.8
2379.0	45°	2399.6	2420.4	2395.5	2370.7	2303.5	2236.2	2185.0	2133.8	2116.3	2099.1
2283.0	47.5°	2297.4	2311.9	2283.3	2254.6	2188.3	2122.0	2072.0	2021.8	2005.7	1989.4
2225.7	50°	2226.3	2227.2	2190.4	2153.7	2094.3	2034.9	1987.7	1940.4	1914.9	1889.6
2187.1	52.5°	2179.3	2171.4	2127.9	2084.3	2028.9	1973.6	1930.3	1886.9	1848.9	1810.8
2150.9	55°	2140.1	2129.2	2083.0	2036.9	1988.5	1939.9	1893.2	1846.5	1792.6	1738.4
2112.7	57.5°	2101.7	2090.7	2044.2	1997.7	1949.6	1901.7	1846.8	1792.0	1733.8	1675.6
2059.5	60°	2047.4	2035.3	1988.6	1941.9	1893.1	1844.4	1781.4	1718.4	1667.5	1616.4
1974.6	62.5°	1963.0	1951.4	1908.6	1865.8	1813.8	1761.8	1688.3	1614.9	1582.5	1550.1
1860.1	65°	1848.3	1836.4	1798.7	1761.1	1711.3	1661.6	1582.8	1504.1	1491.7	1479.2
1729.4	67.5°	1718.0	1706.3	1673.8	1641.2	1594.2	1547.0	1474.3	1401.6	1405.5	1409.4
1589.7	70°	1578.5	1567.4	1538.0	1508.6	1467.9	1427.2	1363.3	1299.4	1313.0	1326.6
1436.0	72.5°	1422.7	1409.4	1380.7	1351.9	1315.1	1278.3	1228.1	1177.8	1197.5	1217.4
1252.7	75°	1238.8	1225.0	1198.8	1172.5	1139.2	1105.9	1068.5	1031.2	1050.3	1069.3
1074.9	77.5°	1061.9	1048.9	1021.5	993.9	965.3	936.7	906.4	875.9	895.2	914.5
874.1	80°	856.9	839.8	819.0	798.0	773.9	749.8	724.6	699.3	715.6	731.7
652.6	82.5°	623.3	594.1	549.5	504.9	513.3	521.8	523.9	526.0	537.4	548.9
414.5	85°	378.3	342.1	300.2	258.5	281.8	305.2	316.2	327.0	339.9	352.7
179.6	87.5°	165.0	150.4	132.8	115.3	133.2	151.0	151.5	151.9	154.3	156.7
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):

215°		220°	225°	230°	235°	240°	245°	250°	255°	260°	265°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
3857.6	2.5°	3886.5	3922.2	3954.3	3987.5	4020.7	4055.3	4090.0	4124.3	4158.9	4191.3
3797.6	5°	3852.2	3914.7	3978.0	4045.1	4112.1	4183.9	4255.8	4327.1	4398.5	4470.1
3767.2	7.5°	3839.8	3920.7	4007.1	4100.7	4194.3	4300.5	4406.8	4515.9	4625.0	4743.0
3769.3	10°	3845.8	3932.8	4039.3	4150.3	4260.9	4390.1	4519.1	4663.1	4807.4	4956.7
3790.7	12.5°	3853.4	3934.3	4046.3	4171.5	4296.8	4449.0	4601.2	4764.6	4927.9	5091.9
3791.3	15°	3821.3	3886.1	4010.1	4155.1	4300.1	4475.4	4650.6	4827.9	5005.1	5176.2
3734.3	17.5°	3723.3	3763.2	3909.1	4083.5	4257.9	4461.3	4664.8	4858.2	5051.5	5225.0
3614.8	20°	3563.6	3574.1	3744.0	3960.1	4176.2	4422.8	4669.3	4881.8	5094.3	5274.7
3458.1	22.5°	3382.2	3361.6	3555.0	3815.2	4075.5	4375.4	4675.3	4913.8	5152.0	5336.4
3293.8	25°	3206.4	3150.6	3348.8	3653.5	3958.4	4328.7	4699.2	4971.6	5244.0	5424.4
3137.0	27.5°	3052.6	2984.8	3165.2	3505.7	3846.1	4297.5	4748.9	5062.1	5375.1	5547.4
2984.4	30°	2917.5	2864.3	3015.7	3382.1	3748.5	4282.9	4817.0	5179.2	5541.3	5707.6
2838.6	32.5°	2799.0	2775.3	2897.4	3275.5	3653.5	4264.8	4875.8	5301.4	5727.0	5891.6
2698.0	35°	2687.2	2697.0	2798.7	3170.8	3542.9	4230.8	4918.9	5440.7	5962.4	6120.2
2557.9	37.5°	2569.9	2605.8	2694.7	3047.5	3400.3	4172.4	4944.5	5596.6	6248.8	6449.8
2414.2	40°	2441.5	2496.5	2577.2	2900.4	3223.7	4092.1	4960.6	5794.7	6628.6	6921.5
2268.9	42.5°	2305.1	2374.4	2448.7	2738.1	3027.5	4009.2	4991.2	6053.7	7116.3	7539.2
2134.2	45°	2169.5	2236.5	2311.9	2565.7	2819.5	3932.2	5045.0	6394.7	7744.3	8314.7
2018.9	47.5°	2048.5	2106.2	2203.4	2429.3	2655.2	3868.6	5082.0	6757.9	8433.8	9236.8
1915.7	50°	1941.9	2009.0	2136.8	2338.7	2540.7	3799.3	5057.9	7094.9	9131.9	10342.4
1836.6	52.5°	1862.5	1956.2	2103.2	2279.0	2455.1	3682.2	4909.4	7313.7	9717.8	11503.7
1779.3	55°	1820.3	1961.5	2098.2	2235.8	2373.4	3488.0	4602.7	7265.5	9928.1	12533.4
1735.3	57.5°	1795.0	1966.8	2087.3	2184.6	2281.8	3214.4	4146.8	6926.1	9705.5	13263.1
1693.8	60°	1771.2	1950.2	2029.8	2106.2	2182.6	2859.0	3535.4	6294.4	9053.5	13445.5
1646.7	62.5°	1743.4	1909.5	1919.3	1969.9	2020.7	2433.7	2846.6	5440.4	8034.1	12677.6
1582.2	65°	1684.9	1811.5	1810.3	1834.3	1858.3	2051.0	2243.8	4568.9	6894.3	11591.2
1495.1	67.5°	1580.7	1651.8	1655.1	1641.8	1628.4	1683.3	1738.0	3715.3	5692.6	10298.2
1387.4	70°	1448.3	1471.7	1471.7	1409.7	1347.7	1332.1	1316.5	2925.3	4534.1	8887.4
1259.2	72.5°	1300.9	1300.6	1285.9	1198.0	1110.0	1062.7	1015.5	2236.4	3457.3	7358.0
1101.5	75°	1133.6	1139.4	1071.3	972.7	874.1	831.3	788.5	1623.2	2457.8	5604.8
940.3	77.5°	966.1	969.1	856.8	761.1	665.4	636.1	607.1	1099.9	1592.7	3922.8
753.4	80°	775.0	775.4	641.3	560.3	479.3	467.2	455.1	708.6	962.3	2527.4
559.4	82.5°	570.0	563.7	449.1	389.4	329.8	327.3	325.2	435.9	546.8	1462.8
364.0	85°	375.3	367.0	281.8	238.1	194.4	195.6	196.7	233.0	269.5	658.0
161.3	87.5°	165.8	155.2	119.8	101.9	84.1	85.2	86.2	96.6	107.0	215.5
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°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
4223.7	2.5°	4239.6	4255.8	4278.5	4301.3	4314.8	4328.4	4335.2	4342.0	4339.0	4342.0
4541.7	5°	4597.6	4653.6	4709.1	4764.7	4794.9	4825.0	4843.2	4861.6	4875.5	4861.6
4861.2	7.5°	4952.2	5043.1	5124.9	5206.8	5256.0	5305.3	5332.0	5358.5	5371.3	5358.5
5106.1	10°	5213.7	5321.3	5417.3	5513.3	5571.5	5629.3	5655.3	5681.0	5690.8	5681.0
5256.0	12.5°	5372.7	5489.2	5576.0	5662.5	5704.7	5746.9	5761.1	5775.2	5776.7	5775.2
5347.2	15°	5447.9	5548.4	5602.8	5657.4	5658.9	5660.4	5645.3	5630.3	5612.5	5630.3
5398.5	17.5°	5466.4	5534.4	5535.5	5536.4	5475.3	5414.3	5358.4	5302.3	5262.8	5302.3
5455.0	20°	5478.6	5502.4	5430.9	5359.3	5224.5	5089.8	4991.7	4893.6	4833.3	4893.6
5520.5	22.5°	5489.5	5458.4	5310.1	5161.8	4963.7	4765.5	4642.8	4520.1	4453.5	4520.1
5604.9	25°	5507.0	5409.0	5183.8	4958.7	4718.0	4477.3	4348.3	4219.6	4156.6	4219.6
5719.5	27.5°	5544.3	5369.1	5070.8	4772.7	4505.9	4239.2	4112.3	3985.5	3926.0	3985.5
5873.9	30°	5612.8	5351.7	4984.6	4617.5	4339.6	4061.7	3943.9	3826.2	3770.8	3826.2
6056.3	32.5°	5698.7	5341.2	4925.8	4510.5	4249.3	3988.1	3895.7	3803.2	3763.2	3803.2
6277.9	35°	5840.2	5402.7	4969.8	4537.1	4355.7	4174.4	4152.8	4131.3	4128.0	4131.3
6650.9	37.5°	6136.0	5621.2	5227.9	4834.5	4822.7	4811.0	4909.6	5008.1	5059.4	5008.1
7214.5	40°	6654.6	6094.7	5802.2	5509.7	5716.2	5922.6	6162.3	6401.9	6521.3	6401.9
7962.0	42.5°	7406.5	6851.0	6682.5	6514.0	6964.3	7414.7	7850.5	8286.4	8542.3	8286.4
8885.1	45°	8386.1	7887.0	7812.7	7738.2	8459.7	9181.3	9897.5	10613.8	11048.6	10613.8
10039.6	47.5°	9554.2	9068.6	9053.5	9038.4	10079.2	11119.7	12168.2	13216.6	13832.2	13216.6
11552.7	50°	10953.1	10353.5	10356.1	10358.6	11700.0	13041.3	14425.3	15809.3	16646.0	15809.3
13289.7	52.5°	12563.5	11837.6	11764.2	11690.6	13292.8	14895.0	16607.4	18319.6	19322.6	18319.6
15138.9	55°	14421.5	13704.1	13417.9	13131.7	14914.9	16698.0	18739.4	20780.7	21973.6	20780.7
16820.8	57.5°	16430.2	16039.4	15465.3	14891.4	16692.0	18492.5	20804.7	23116.8	24596.0	23116.8
17837.4	60°	18444.1	19051.0	18338.2	17625.3	19329.3	21033.2	23508.8	25984.3	27583.1	25984.3
17321.2	62.5°	18979.1	20637.1	20556.8	20476.3	22037.2	23598.3	25953.6	28308.7	29786.5	28308.7
16288.1	65°	17844.1	19400.2	19708.1	20015.9	21999.5	23983.3	26267.2	28550.9	29809.1	28550.9
14903.8	67.5°	16383.8	17863.7	18008.1	18152.4	20219.2	22285.9	24579.6	26873.2	27858.9	26873.2
13240.7	70°	14850.4	16460.3	16524.8	16589.5	18437.8	20286.0	22259.8	24233.5	24781.4	24233.5
11258.8	72.5°	13106.1	14953.5	14999.9	15046.2	16492.3	17938.3	19416.7	20894.8	20950.3	20894.8
8751.8	75°	10663.7	12575.6	12747.3	12918.9	14044.0	15169.0	16209.7	17250.3	16971.5	17250.3
6253.0	77.5°	8037.7	9822.6	10068.2	10313.9	11169.2	12024.5	12762.5	13500.7	13021.4	13500.7
4092.5	80°	5594.1	7095.5	7400.8	7706.1	8352.1	8997.7	9385.4	9772.8	9002.0	9772.8
2379.0	82.5°	3405.5	4432.1	4773.2	5114.4	5559.0	6003.6	6165.3	6326.8	5721.0	6326.8
1046.7	85°	1591.5	2136.3	2426.4	2716.6	3081.9	3447.1	3538.8	3630.6	3145.3	3630.6
324.0	87.5°	507.1	690.3	852.1	1014.0	1196.6	1379.3	1387.1	1394.8	1171.0	1394.8
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):

325°		330°	335°	340°	345°	350°	355°	360°
3927.5	0°	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5	3927.5
4335.2	2.5°	4328.4	4314.8	4301.3	4278.5	4255.8	4239.6	4223.7
4843.2	5°	4825.0	4794.9	4764.7	4709.1	4653.6	4597.6	4541.7
5332.0	7.5°	5305.3	5256.0	5206.8	5124.9	5043.1	4952.2	4861.2
5655.3	10°	5629.3	5571.5	5513.3	5417.3	5321.3	5213.7	5106.1
5761.1	12.5°	5746.9	5704.7	5662.5	5576.0	5489.2	5372.7	5256.0
5645.3	15°	5660.4	5658.9	5657.4	5602.8	5548.4	5447.9	5347.2
5358.4	17.5°	5414.3	5475.3	5536.4	5535.5	5534.4	5466.4	5398.5
4991.7	20°	5089.8	5224.5	5359.3	5430.9	5502.4	5478.6	5455.0
4642.8	22.5°	4765.5	4963.7	5161.8	5310.1	5458.4	5489.5	5520.5
4348.3	25°	4477.3	4718.0	4958.7	5183.8	5409.0	5507.0	5604.9
4112.3	27.5°	4239.2	4505.9	4772.7	5070.8	5369.1	5544.3	5719.5
3943.9	30°	4061.7	4339.6	4617.5	4984.6	5351.7	5612.8	5873.9
3895.7	32.5°	3988.1	4249.3	4510.5	4925.8	5341.2	5698.7	6056.3
4152.8	35°	4174.4	4355.7	4537.1	4969.8	5402.7	5840.2	6277.9
4909.6	37.5°	4811.0	4822.7	4834.5	5227.9	5621.2	6136.0	6650.9
6162.3	40°	5922.6	5716.2	5509.7	5802.2	6094.7	6654.6	7214.5
7850.5	42.5°	7414.7	6964.3	6514.0	6682.5	6851.0	7406.5	7962.0
9897.5	45°	9181.3	8459.7	7738.2	7812.7	7887.0	8386.1	8885.1
12168.2	47.5°	11119.7	10079.2	9038.4	9053.5	9068.6	9554.2	10039.6
14425.3	50°	13041.3	11700.0	10358.6	10356.1	10353.5	10953.1	11552.7
16607.4	52.5°	14895.0	13292.8	11690.6	11764.2	11837.6	12563.5	13289.7
18739.4	55°	16698.0	14914.9	13131.7	13417.9	13704.1	14421.5	15138.9
20804.7	57.5°	18492.5	16692.0	14891.4	15465.3	16039.4	16430.2	16820.8
23508.8	60°	21033.2	19329.3	17625.3	18338.2	19051.0	18444.1	17837.4
25953.6	62.5°	23598.3	22037.2	20476.3	20556.8	20637.1	18979.1	17321.2
26267.2	65°	23983.3	21999.5	20015.9	19708.1	19400.2	17844.1	16288.1
24579.6	67.5°	22285.9	20219.2	18152.4	18008.1	17863.7	16383.8	14903.8
22259.8	70°	20286.0	18437.8	16589.5	16524.8	16460.3	14850.4	13240.7
19416.7	72.5°	17938.3	16492.3	15046.2	14999.9	14953.5	13106.1	11258.8
16209.7	75°	15169.0	14044.0	12918.9	12747.3	12575.6	10663.7	8751.8
12762.5	77.5°	12024.5	11169.2	10313.9	10068.2	9822.6	8037.7	6253.0
9385.4	80°	8997.7	8352.1	7706.1	7400.8	7095.5	5594.1	4092.5
6165.3	82.5°	6003.6	5559.0	5114.4	4773.2	4432.1	3405.5	2379.0
3538.8	85°	3447.1	3081.9	2716.6	2426.4	2136.3	1591.5	1046.7
1387.1	87.5°	1379.3	1196.6	1014.0	852.1	690.3	507.1	324.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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