

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: P955111

Luminaire Tested: **GALN-SB8A-930-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955111
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-SB8A-930-U-SLR
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 25143 lumens
Efficiency: N/A
Efficacy: 110.7 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

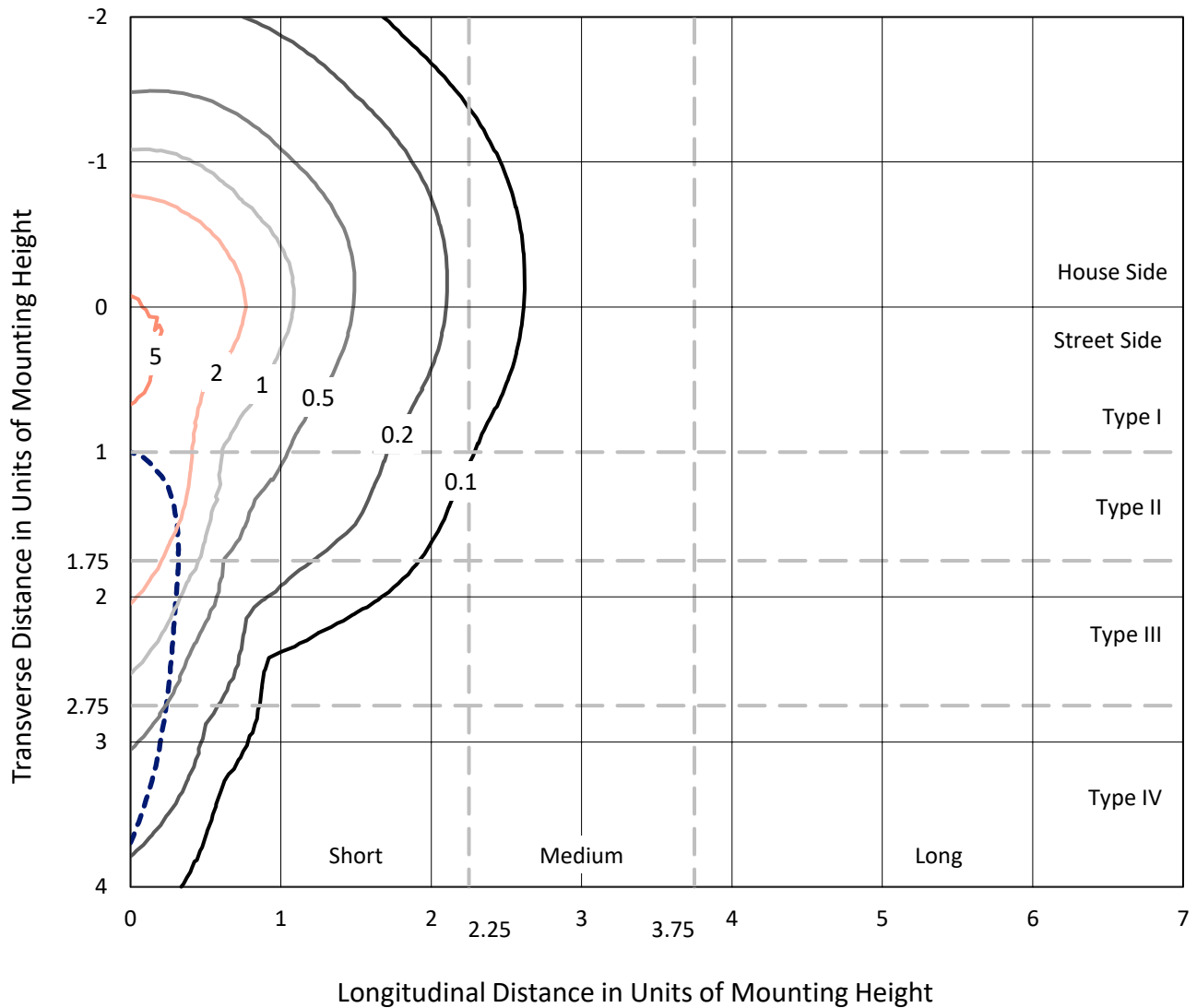
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

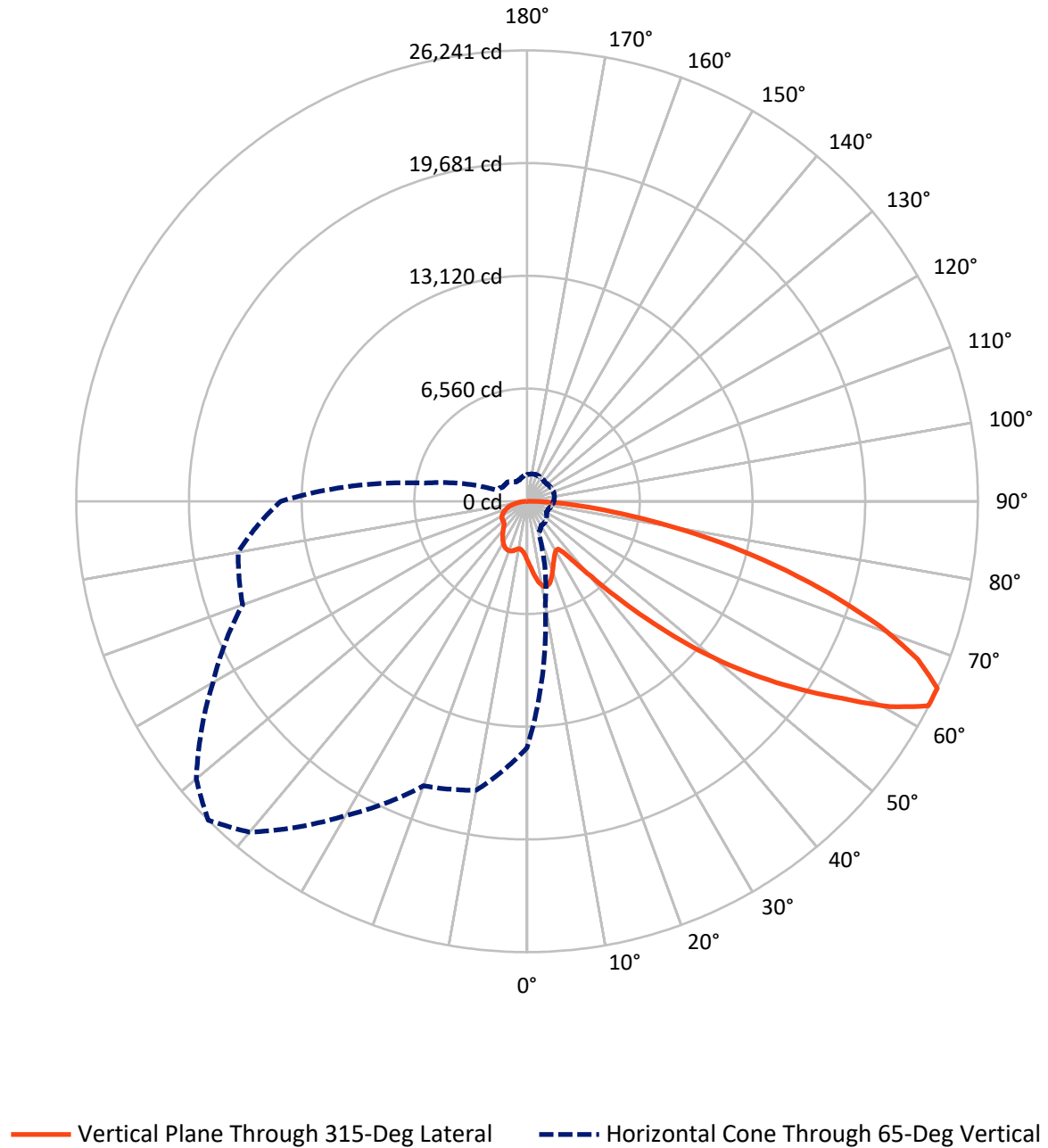
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	6390.1	0.0	6390.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	18752.9	0.0	18752.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	25143.0	0.0	25143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	1.4
10°-20°	1076.7	4.3
20°-30°	1663.1	6.6
30°-40°	2107.5	8.4
40°-50°	3178.7	12.6
50°-60°	5135.6	20.4
60°-70°	6402.3	25.5
70°-80°	4198.3	16.7
80°-90°	1037.9	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°	25143.0	100.0
0°-180°	25143.0	100.0



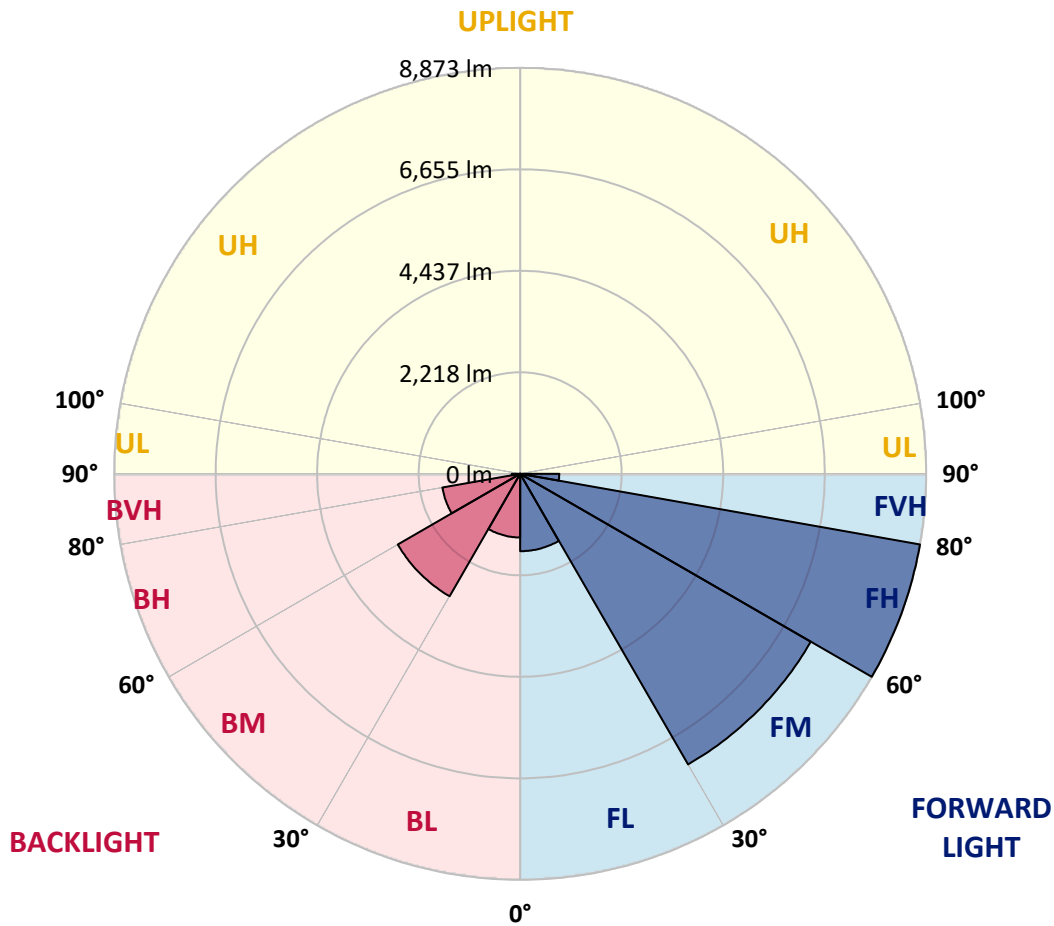
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1691.2	6.7			
FM (30°-60°)	7333.7	29.2			
FH (60°-80°)	8873.1	35.3			G4/12000
FVH (80°-90°)	855.0	3.4			G5
BL (0°-30°)	1391.5	5.5	B3/2500		
BM (30°-60°)	3088.1	12.3	B3/5000		
BH (60°-80°)	1727.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	182.9	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°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
2.5°	3718.1	3689.6	3661.0	3630.6	3600.4	3569.9	3539.4	3510.2	3481.0	3452.7
5°	3998.0	3935.0	3872.0	3809.1	3746.3	3683.1	3619.9	3560.9	3501.8	3446.1
7.5°	4279.3	4175.3	4071.4	3975.3	3879.3	3785.7	3692.2	3609.8	3527.4	3451.4
10°	4494.9	4363.4	4231.9	4104.9	3978.1	3864.5	3750.8	3653.5	3555.8	3462.0
12.5°	4626.9	4482.4	4338.0	4194.2	4050.4	3916.4	3782.4	3672.2	3561.9	3463.3
15°	4707.1	4556.5	4406.0	4249.9	4093.9	3939.6	3785.3	3657.7	3530.1	3420.9
17.5°	4752.2	4599.5	4446.8	4276.6	4106.4	3927.3	3748.2	3594.7	3441.2	3312.8
20°	4802.0	4643.3	4484.5	4297.4	4110.4	3893.3	3676.3	3486.0	3295.8	3146.3
22.5°	4859.7	4697.6	4535.3	4325.6	4115.7	3851.7	3587.7	3358.5	3129.4	2959.2
25°	4934.0	4775.1	4616.3	4376.5	4136.6	3810.5	3484.6	3216.2	2947.9	2773.5
27.5°	5034.8	4883.3	4731.7	4456.1	4180.4	3783.1	3385.7	3086.0	2786.3	2627.5
30°	5170.8	5024.3	4878.0	4559.2	4240.4	3770.2	3299.8	2977.2	2654.7	2521.4
32.5°	5331.3	5186.3	5041.5	4666.8	4292.1	3754.3	3216.2	2883.4	2550.6	2443.1
35°	5526.4	5387.6	5248.7	4789.4	4330.1	3724.3	3118.8	2791.2	2463.7	2374.1
37.5°	5854.7	5677.7	5500.8	4926.7	4352.6	3673.0	2993.3	2682.7	2372.1	2293.9
40°	6350.9	6093.0	5835.1	5101.0	4366.8	3602.3	2837.8	2553.2	2268.7	2197.7
42.5°	7009.0	6636.7	6264.4	5329.1	4393.8	3529.3	2665.1	2410.3	2155.6	2090.2
45°	7821.6	7319.4	6817.2	5629.2	4441.1	3461.5	2482.0	2258.6	2035.2	1968.8
47.5°	8837.8	8131.1	7424.2	5948.9	4473.6	3405.5	2337.4	2138.5	1939.6	1854.1
50°	10169.8	9104.3	8038.7	6245.6	4452.4	3344.5	2236.6	2058.8	1881.0	1768.5
52.5°	11698.8	10126.7	8554.6	6438.2	4321.7	3241.4	2161.2	2006.2	1851.4	1722.1
55°	13326.7	11033.1	8739.6	6395.8	4051.7	3070.5	2089.3	1968.2	1847.0	1726.7
57.5°	14807.3	11675.5	8543.7	6097.0	3650.4	2829.6	2008.6	1923.1	1837.5	1731.3
60°	15702.2	11836.0	7969.7	5541.0	3112.2	2516.7	1921.3	1854.1	1786.8	1716.7
62.5°	15247.8	11160.1	7072.4	4789.1	2505.9	2142.4	1778.8	1734.1	1689.6	1680.9
65°	14338.3	10203.6	6069.0	4022.0	1975.2	1805.5	1635.8	1614.7	1593.6	1594.7
67.5°	13119.7	9065.5	5011.2	3270.6	1529.9	1481.8	1433.5	1445.3	1457.0	1454.1
70°	11655.7	7823.5	3991.4	2575.1	1158.9	1172.7	1186.3	1241.0	1295.5	1295.5
72.5°	9911.1	6477.2	3043.4	1968.7	893.9	935.5	977.1	1054.6	1131.9	1144.9
75°	7704.1	4933.9	2163.6	1428.9	694.1	731.8	769.5	856.3	943.0	1003.0
77.5°	5504.5	3453.3	1402.1	968.2	534.4	560.0	585.7	670.0	754.2	853.1
80°	3602.7	2224.9	847.1	623.8	400.7	411.3	421.9	493.3	564.5	682.6
82.5°	2094.2	1287.7	481.3	383.7	286.3	288.2	290.3	342.8	395.4	496.2
85°	921.4	579.2	237.2	205.1	173.1	172.2	171.1	209.6	248.1	323.1
87.5°	285.2	189.7	94.2	85.0	75.9	75.0	74.0	89.7	105.5	136.7
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°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3421.3	2.5°	3395.8	3370.5	3347.5	3324.7	3304.7	3284.6	3264.5	3244.4	3228.9	3213.3
3391.0	5°	3343.0	3294.9	3254.5	3214.3	3178.8	3143.2	3111.0	3078.6	3053.8	3028.9
3380.2	7.5°	3316.2	3252.4	3199.3	3146.3	3101.6	3056.7	3017.2	2977.8	2948.2	2918.7
3385.5	10°	3318.1	3250.7	3197.6	3144.5	3096.4	3048.1	3003.6	2959.2	2923.9	2888.5
3392.1	12.5°	3336.9	3282.0	3246.7	3211.7	3173.7	3136.1	3090.0	3044.1	2999.0	2953.9
3363.8	15°	3337.4	3311.2	3316.0	3320.7	3310.9	3301.1	3261.2	3221.2	3157.0	3092.8
3277.6	17.5°	3287.3	3296.8	3354.7	3412.5	3443.3	3474.0	3441.7	3409.6	3324.6	3239.5
3137.0	20°	3182.1	3227.2	3327.6	3428.2	3492.5	3556.9	3542.0	3527.0	3429.8	3332.7
2977.4	22.5°	3044.1	3110.8	3225.5	3340.4	3424.1	3507.8	3516.8	3525.7	3432.8	3340.0
2822.6	25°	2899.5	2976.5	3079.5	3182.8	3265.1	3347.5	3378.3	3409.0	3332.8	3256.8
2687.2	27.5°	2761.5	2835.8	2920.6	3005.2	3071.3	3137.4	3171.6	3206.0	3151.7	3097.6
2568.2	30°	2627.1	2686.3	2756.6	2826.9	2881.7	2936.6	2964.5	2992.4	2951.1	2909.7
2463.9	32.5°	2498.8	2533.7	2589.9	2646.1	2698.6	2751.3	2782.2	2813.3	2775.3	2737.2
2365.5	35°	2375.1	2384.7	2427.6	2470.3	2522.3	2574.5	2611.6	2648.8	2621.7	2594.8
2262.3	37.5°	2251.7	2241.1	2271.8	2302.5	2354.4	2406.4	2452.3	2498.2	2485.7	2473.2
2149.3	40°	2125.2	2101.2	2123.4	2145.5	2195.7	2245.8	2298.6	2351.6	2354.6	2357.5
2029.2	42.5°	1997.3	1965.5	1983.5	2001.7	2049.2	2096.8	2153.9	2210.9	2226.2	2241.5
1909.8	45°	1878.7	1847.8	1863.0	1878.3	1923.4	1968.6	2027.7	2086.9	2108.8	2130.7
1803.3	47.5°	1777.2	1751.2	1765.6	1779.8	1823.9	1868.0	1926.4	1984.7	2009.9	2035.2
1709.5	50°	1686.4	1663.4	1685.7	1708.1	1749.8	1791.3	1843.6	1895.9	1928.2	1960.6
1639.5	52.5°	1616.7	1594.0	1627.6	1661.0	1699.2	1737.3	1786.0	1834.8	1873.2	1911.5
1602.4	55°	1566.3	1530.3	1578.0	1625.5	1666.6	1707.7	1750.4	1793.0	1833.6	1874.4
1580.1	57.5°	1527.6	1475.0	1526.2	1577.4	1625.7	1674.0	1716.2	1758.5	1799.5	1840.4
1559.1	60°	1491.1	1422.9	1467.9	1512.7	1568.2	1623.6	1666.5	1709.5	1750.6	1791.7
1534.7	62.5°	1449.6	1364.5	1393.0	1421.6	1486.2	1550.9	1596.7	1642.5	1680.1	1717.8
1483.3	65°	1392.8	1302.2	1313.2	1324.0	1393.3	1462.7	1506.5	1550.2	1583.4	1616.6
1391.4	67.5°	1316.1	1240.7	1237.3	1233.8	1297.8	1361.9	1403.4	1444.8	1473.4	1502.1
1275.0	70°	1221.4	1167.8	1155.8	1143.9	1200.1	1256.4	1292.2	1328.0	1353.9	1379.8
1145.2	72.5°	1108.5	1071.7	1054.2	1036.8	1081.1	1125.3	1157.7	1190.0	1215.4	1240.7
997.9	75°	969.7	941.3	924.6	907.7	940.6	973.5	1002.9	1032.2	1055.3	1078.3
850.4	77.5°	827.7	805.0	788.1	771.1	797.9	824.5	849.8	875.0	899.2	923.4
682.2	80°	663.2	644.1	629.9	615.6	637.9	660.0	681.3	702.5	720.9	739.2
501.8	82.5°	492.5	483.2	473.1	463.0	461.2	459.3	451.9	444.4	483.7	523.0
330.3	85°	320.4	310.4	299.2	287.9	278.3	268.7	248.1	227.5	264.3	301.2
145.9	87.5°	142.0	138.0	135.9	133.7	133.3	132.9	117.3	101.5	116.9	132.4
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°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3200.7	2.5°	3188.1	3178.2	3168.4	3159.4	3150.2	3139.0	3150.2	3159.4	3168.4	3178.2
3011.5	5°	2994.1	2981.8	2969.4	2960.0	2950.6	2941.3	2950.6	2960.0	2969.4	2981.8
2898.0	7.5°	2877.3	2863.2	2849.1	2840.6	2832.2	2825.9	2832.2	2840.6	2849.1	2863.2
2865.4	10°	2842.1	2828.7	2815.3	2808.1	2800.9	2798.0	2800.9	2808.1	2815.3	2828.7
2924.0	12.5°	2894.2	2879.2	2864.3	2858.2	2852.1	2851.1	2852.1	2858.2	2864.3	2879.2
3047.4	15°	3002.1	2981.2	2960.5	2952.6	2944.6	2943.9	2944.6	2952.6	2960.5	2981.2
3172.7	17.5°	3105.8	3075.0	3044.1	3034.0	3023.8	3022.2	3023.8	3034.0	3044.1	3075.0
3250.7	20°	3168.8	3129.4	3089.9	3077.3	3064.7	3060.7	3064.7	3077.3	3089.9	3129.4
3255.6	22.5°	3171.1	3129.6	3087.9	3074.0	3060.0	3054.1	3060.0	3074.0	3087.9	3129.6
3181.7	25°	3106.9	3070.8	3034.8	3021.7	3008.7	3001.0	3008.7	3021.7	3034.8	3070.8
3039.3	27.5°	2981.1	2956.9	2932.7	2926.7	2920.7	2918.7	2920.7	2926.7	2932.7	2956.9
2868.1	30°	2826.1	2813.8	2801.3	2801.3	2801.3	2803.3	2801.3	2801.3	2801.3	2813.8
2703.9	32.5°	2670.6	2662.6	2654.5	2655.5	2656.7	2658.7	2656.7	2655.5	2654.5	2662.6
2564.0	35°	2533.3	2521.0	2508.8	2506.1	2503.5	2502.2	2503.5	2506.1	2508.8	2521.0
2445.0	37.5°	2416.6	2394.2	2371.9	2360.1	2348.3	2341.6	2348.3	2360.1	2371.9	2394.2
2333.5	40°	2309.5	2276.9	2244.5	2222.5	2200.7	2187.7	2200.7	2222.5	2244.5	2276.9
2221.2	42.5°	2201.0	2160.5	2120.1	2088.1	2056.1	2035.2	2056.1	2088.1	2120.1	2160.5
2112.4	45°	2094.2	2047.9	2001.7	1964.2	1926.6	1902.5	1926.6	1964.2	2001.7	2047.9
2022.4	47.5°	2009.7	1968.6	1927.4	1892.7	1858.0	1834.8	1858.0	1892.7	1927.4	1968.6
1959.8	50°	1959.3	1926.4	1893.5	1861.4	1829.3	1807.0	1829.3	1861.4	1893.5	1926.4
1918.4	52.5°	1925.3	1898.5	1871.7	1842.9	1814.3	1793.7	1814.3	1842.9	1871.7	1898.5
1883.9	55°	1893.5	1870.1	1846.8	1821.6	1796.4	1777.8	1796.4	1821.6	1846.8	1870.1
1850.1	57.5°	1859.8	1836.2	1812.5	1787.6	1762.5	1743.3	1762.5	1787.6	1812.5	1836.2
1802.3	60°	1812.9	1789.9	1766.9	1741.2	1715.4	1695.5	1715.4	1741.2	1766.9	1789.9
1728.0	62.5°	1738.2	1717.4	1696.6	1669.5	1642.5	1618.6	1642.5	1669.5	1696.6	1717.4
1627.1	65°	1637.4	1617.4	1597.3	1571.1	1544.9	1524.4	1544.9	1571.1	1597.3	1617.4
1512.3	67.5°	1522.4	1503.9	1485.6	1461.2	1436.8	1418.2	1436.8	1461.2	1485.6	1503.9
1389.6	70°	1399.4	1384.4	1369.4	1346.1	1322.7	1301.5	1322.7	1346.1	1369.4	1384.4
1252.4	72.5°	1264.1	1251.6	1239.1	1216.8	1194.7	1174.1	1194.7	1216.8	1239.1	1251.6
1090.5	75°	1102.8	1096.6	1090.5	1071.8	1053.1	1033.5	1053.1	1071.8	1090.5	1096.6
934.8	77.5°	946.2	937.7	929.0	910.1	891.3	875.6	891.3	910.1	929.0	937.7
754.4	80°	769.5	765.8	762.2	736.8	711.4	681.9	711.4	736.8	762.2	765.8
548.7	82.5°	574.5	572.9	571.1	549.8	528.3	509.5	528.3	549.8	571.1	572.9
333.0	85°	364.8	362.2	359.5	342.8	326.1	309.1	326.1	342.8	359.5	362.2
145.3	87.5°	158.1	155.0	151.5	143.0	134.3	126.0	134.3	143.0	151.5	155.0
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°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3188.1	2.5°	3200.7	3213.3	3228.9	3244.4	3264.5	3284.6	3304.7	3324.7	3347.5	3370.5
2994.1	5°	3011.5	3028.9	3053.8	3078.6	3111.0	3143.2	3178.8	3214.3	3254.5	3294.9
2877.3	7.5°	2898.0	2918.7	2948.2	2977.8	3017.2	3056.7	3101.6	3146.3	3199.3	3252.4
2842.1	10°	2865.4	2888.5	2923.9	2959.2	3003.6	3048.1	3096.4	3144.5	3197.6	3250.7
2894.2	12.5°	2924.0	2953.9	2999.0	3044.1	3090.0	3136.1	3173.7	3211.7	3246.7	3282.0
3002.1	15°	3047.4	3092.8	3157.0	3221.2	3261.2	3301.1	3310.9	3320.7	3316.0	3311.2
3105.8	17.5°	3172.7	3239.5	3324.6	3409.6	3441.7	3474.0	3443.3	3412.5	3354.7	3296.8
3168.8	20°	3250.7	3332.7	3429.8	3527.0	3542.0	3556.9	3492.5	3428.2	3327.6	3227.2
3171.1	22.5°	3255.6	3340.0	3432.8	3525.7	3516.8	3507.8	3424.1	3340.4	3225.5	3110.8
3106.9	25°	3181.7	3256.8	3332.8	3409.0	3378.3	3347.5	3265.1	3182.8	3079.5	2976.5
2981.1	27.5°	3039.3	3097.6	3151.7	3206.0	3171.6	3137.4	3071.3	3005.2	2920.6	2835.8
2826.1	30°	2868.1	2909.7	2951.1	2992.4	2964.5	2936.6	2881.7	2826.9	2756.6	2686.3
2670.6	32.5°	2703.9	2737.2	2775.3	2813.3	2782.2	2751.3	2698.6	2646.1	2589.9	2533.7
2533.3	35°	2564.0	2594.8	2621.7	2648.8	2611.6	2574.5	2522.3	2470.3	2427.6	2384.7
2416.6	37.5°	2445.0	2473.2	2485.7	2498.2	2452.3	2406.4	2354.4	2302.5	2271.8	2241.1
2309.5	40°	2333.5	2357.5	2354.6	2351.6	2298.6	2245.8	2195.7	2145.5	2123.4	2101.2
2201.0	42.5°	2221.2	2241.5	2226.2	2210.9	2153.9	2096.8	2049.2	2001.7	1983.5	1965.5
2094.2	45°	2112.4	2130.7	2108.8	2086.9	2027.7	1968.6	1923.4	1878.3	1863.0	1847.8
2009.7	47.5°	2022.4	2035.2	2009.9	1984.7	1926.4	1868.0	1823.9	1779.8	1765.6	1751.2
1959.3	50°	1959.8	1960.6	1928.2	1895.9	1843.6	1791.3	1749.8	1708.1	1685.7	1663.4
1925.3	52.5°	1918.4	1911.5	1873.2	1834.8	1786.0	1737.3	1699.2	1661.0	1627.6	1594.0
1893.5	55°	1883.9	1874.4	1833.6	1793.0	1750.4	1707.7	1666.6	1625.5	1578.0	1530.3
1859.8	57.5°	1850.1	1840.4	1799.5	1758.5	1716.2	1674.0	1625.7	1577.4	1526.2	1475.0
1812.9	60°	1802.3	1791.7	1750.6	1709.5	1666.5	1623.6	1568.2	1512.7	1467.9	1422.9
1738.2	62.5°	1728.0	1717.8	1680.1	1642.5	1596.7	1550.9	1486.2	1421.6	1393.0	1364.5
1637.4	65°	1627.1	1616.6	1583.4	1550.2	1506.5	1462.7	1393.3	1324.0	1313.2	1302.2
1522.4	67.5°	1512.3	1502.1	1473.4	1444.8	1403.4	1361.9	1297.8	1233.8	1237.3	1240.7
1399.4	70°	1389.6	1379.8	1353.9	1328.0	1292.2	1256.4	1200.1	1143.9	1155.8	1167.8
1264.1	72.5°	1252.4	1240.7	1215.4	1190.0	1157.7	1125.3	1081.1	1036.8	1054.2	1071.7
1102.8	75°	1090.5	1078.3	1055.3	1032.2	1002.9	973.5	940.6	907.7	924.6	941.3
946.2	77.5°	934.8	923.4	899.2	875.0	849.8	824.5	797.9	771.1	788.1	805.0
769.5	80°	754.4	739.2	720.9	702.5	681.3	660.0	637.9	615.6	629.9	644.1
574.5	82.5°	548.7	523.0	483.7	444.4	451.9	459.3	461.2	463.0	473.1	483.2
364.8	85°	333.0	301.2	264.3	227.5	248.1	268.7	278.3	287.9	299.2	310.4
158.1	87.5°	145.3	132.4	116.9	101.5	117.3	132.9	133.3	133.7	135.9	138.0
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°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3395.8	2.5°	3421.3	3452.7	3481.0	3510.2	3539.4	3569.9	3600.4	3630.6	3661.0	3689.6
3343.0	5°	3391.0	3446.1	3501.8	3560.9	3619.9	3683.1	3746.3	3809.1	3872.0	3935.0
3316.2	7.5°	3380.2	3451.4	3527.4	3609.8	3692.2	3785.7	3879.3	3975.3	4071.4	4175.3
3318.1	10°	3385.5	3462.0	3555.8	3653.5	3750.8	3864.5	3978.1	4104.9	4231.9	4363.4
3336.9	12.5°	3392.1	3463.3	3561.9	3672.2	3782.4	3916.4	4050.4	4194.2	4338.0	4482.4
3337.4	15°	3363.8	3420.9	3530.1	3657.7	3785.3	3939.6	4093.9	4249.9	4406.0	4556.5
3287.3	17.5°	3277.6	3312.8	3441.2	3594.7	3748.2	3927.3	4106.4	4276.6	4446.8	4599.5
3182.1	20°	3137.0	3146.3	3295.8	3486.0	3676.3	3893.3	4110.4	4297.4	4484.5	4643.3
3044.1	22.5°	2977.4	2959.2	3129.4	3358.5	3587.7	3851.7	4115.7	4325.6	4535.3	4697.6
2899.5	25°	2822.6	2773.5	2947.9	3216.2	3484.6	3810.5	4136.6	4376.5	4616.3	4775.1
2761.5	27.5°	2687.2	2627.5	2786.3	3086.0	3385.7	3783.1	4180.4	4456.1	4731.7	4883.3
2627.1	30°	2568.2	2521.4	2654.7	2977.2	3299.8	3770.2	4240.4	4559.2	4878.0	5024.3
2498.8	32.5°	2463.9	2443.1	2550.6	2883.4	3216.2	3754.3	4292.1	4666.8	5041.5	5186.3
2375.1	35°	2365.5	2374.1	2463.7	2791.2	3118.8	3724.3	4330.1	4789.4	5248.7	5387.6
2251.7	37.5°	2262.3	2293.9	2372.1	2682.7	2993.3	3673.0	4352.6	4926.7	5500.8	5677.7
2125.2	40°	2149.3	2197.7	2268.7	2553.2	2837.8	3602.3	4366.8	5101.0	5835.1	6093.0
1997.3	42.5°	2029.2	2090.2	2155.6	2410.3	2665.1	3529.3	4393.8	5329.1	6264.4	6636.7
1878.7	45°	1909.8	1968.8	2035.2	2258.6	2482.0	3461.5	4441.1	5629.2	6817.2	7319.4
1777.2	47.5°	1803.3	1854.1	1939.6	2138.5	2337.4	3405.5	4473.6	5948.9	7424.2	8131.1
1686.4	50°	1709.5	1768.5	1881.0	2058.8	2236.6	3344.5	4452.4	6245.6	8038.7	9104.3
1616.7	52.5°	1639.5	1722.1	1851.4	2006.2	2161.2	3241.4	4321.7	6438.2	8554.6	10126.7
1566.3	55°	1602.4	1726.7	1847.0	1968.2	2089.3	3070.5	4051.7	6395.8	8739.6	11033.1
1527.6	57.5°	1580.1	1731.3	1837.5	1923.1	2008.6	2829.6	3650.4	6097.0	8543.7	11675.5
1491.1	60°	1559.1	1716.7	1786.8	1854.1	1921.3	2516.7	3112.2	5541.0	7969.7	11836.0
1449.6	62.5°	1534.7	1680.9	1689.6	1734.1	1778.8	2142.4	2505.9	4789.1	7072.4	11160.1
1392.8	65°	1483.3	1594.7	1593.6	1614.7	1635.8	1805.5	1975.2	4022.0	6069.0	10203.6
1316.1	67.5°	1391.4	1454.1	1457.0	1445.3	1433.5	1481.8	1529.9	3270.6	5011.2	9065.5
1221.4	70°	1275.0	1295.5	1295.5	1241.0	1186.3	1172.7	1158.9	2575.1	3991.4	7823.5
1108.5	72.5°	1145.2	1144.9	1131.9	1054.6	977.1	935.5	893.9	1968.7	3043.4	6477.2
969.7	75°	997.9	1003.0	943.0	856.3	769.5	731.8	694.1	1428.9	2163.6	4933.9
827.7	77.5°	850.4	853.1	754.2	670.0	585.7	560.0	534.4	968.2	1402.1	3453.3
663.2	80°	682.2	682.6	564.5	493.3	421.9	411.3	400.7	623.8	847.1	2224.9
492.5	82.5°	501.8	496.2	395.4	342.8	290.3	288.2	286.3	383.7	481.3	1287.7
320.4	85°	330.3	323.1	248.1	209.6	171.1	172.2	173.1	205.1	237.2	579.2
142.0	87.5°	145.9	136.7	105.5	89.7	74.0	75.0	75.9	85.0	94.2	189.7
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):

270°		275°	280°	285°	290°	295°	300°	305°	310°	315°	320°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3718.1	2.5°	3732.1	3746.3	3766.4	3786.4	3798.3	3810.3	3816.3	3822.2	3819.6	3822.2
3998.0	5°	4047.2	4096.6	4145.4	4194.4	4220.9	4247.4	4263.5	4279.7	4291.9	4279.7
4279.3	7.5°	4359.4	4439.4	4511.4	4583.5	4626.9	4670.2	4693.7	4717.1	4728.4	4717.1
4494.9	10°	4589.6	4684.3	4768.8	4853.3	4904.5	4955.5	4978.3	5001.0	5009.6	5001.0
4626.9	12.5°	4729.6	4832.1	4908.5	4984.7	5021.8	5059.0	5071.4	5083.9	5085.2	5083.9
4707.1	15°	4795.8	4884.2	4932.1	4980.2	4981.5	4982.8	4969.6	4956.3	4940.6	4956.3
4752.2	17.5°	4812.1	4871.9	4872.8	4873.6	4819.9	4766.2	4716.9	4667.6	4632.8	4667.6
4802.0	20°	4822.8	4843.8	4780.8	4717.7	4599.1	4480.5	4394.2	4307.8	4254.7	4307.8
4859.7	22.5°	4832.4	4805.0	4674.5	4543.9	4369.5	4195.0	4087.0	3979.0	3920.4	3979.0
4934.0	25°	4847.8	4761.5	4563.3	4365.1	4153.2	3941.4	3827.8	3714.5	3659.0	3714.5
5034.8	27.5°	4880.7	4726.4	4463.8	4201.4	3966.6	3731.7	3620.0	3508.5	3456.1	3508.5
5170.8	30°	4940.9	4711.1	4387.9	4064.7	3820.1	3575.5	3471.8	3368.2	3319.4	3368.2
5331.3	32.5°	5016.5	4701.8	4336.2	3970.5	3740.6	3510.7	3429.4	3347.9	3312.8	3347.9
5526.4	35°	5141.1	4756.0	4374.9	3994.0	3834.3	3674.7	3655.7	3636.7	3633.8	3636.7
5854.7	37.5°	5401.5	4948.3	4602.1	4255.8	4245.4	4235.1	4321.9	4408.6	4453.7	4408.6
6350.9	40°	5858.0	5365.2	5107.7	4850.1	5031.9	5213.7	5424.6	5635.6	5740.6	5635.6
7009.0	42.5°	6519.9	6030.9	5882.6	5734.3	6130.7	6527.1	6910.8	7294.5	7519.7	7294.5
7821.6	45°	7382.3	6942.9	6877.5	6811.9	7447.0	8082.3	8712.7	9343.3	9726.0	9343.3
8837.8	47.5°	8410.5	7983.0	7969.7	7956.5	8872.7	9788.7	10711.6	11634.5	12176.4	11634.5
10169.8	50°	9641.9	9114.2	9116.4	9118.7	10299.4	11480.2	12698.5	13916.8	14653.4	13916.8
11698.8	52.5°	11059.6	10420.6	10356.0	10291.2	11701.6	13112.0	14619.4	16126.7	17009.6	16126.7
13326.7	55°	12695.2	12063.7	11811.7	11559.8	13129.5	14699.2	16496.2	18293.2	19343.3	18293.2
14807.3	57.5°	14463.4	14119.4	13614.1	13108.9	14693.9	16278.9	18314.3	20349.6	21651.7	20349.6
15702.2	60°	16236.3	16770.5	16143.0	15515.5	17015.5	18515.4	20694.7	22873.9	24281.3	22873.9
15247.8	62.5°	16707.3	18166.8	18096.0	18025.2	19399.3	20773.5	22846.8	24920.1	26220.9	24920.1
14338.3	65°	15708.1	17077.9	17349.0	17619.9	19366.1	21112.4	23122.9	25133.3	26240.8	25133.3
13119.7	67.5°	14422.6	15725.4	15852.5	15979.4	17798.9	19618.2	21637.3	23656.4	24524.0	23656.4
11655.7	70°	13072.8	14489.9	14546.7	14603.6	16230.7	17857.6	19595.2	21332.7	21814.9	21332.7
9911.1	72.5°	11537.2	13163.5	13204.4	13245.1	14518.1	15791.0	17092.4	18393.6	18442.5	18393.6
7704.1	75°	9387.2	11070.2	11221.4	11372.5	12362.8	13353.2	14269.3	15185.4	14940.0	15185.4
5504.5	77.5°	7075.6	8646.8	8863.0	9079.3	9832.2	10585.1	11234.8	11884.6	11462.7	11884.6
3602.7	80°	4924.4	6246.1	6514.9	6783.7	7352.3	7920.7	8261.9	8603.0	7924.4	8603.0
2094.2	82.5°	2997.8	3901.6	4201.8	4502.2	4893.5	5284.9	5427.3	5569.5	5036.2	5569.5
921.4	85°	1401.0	1880.6	2136.0	2391.4	2713.0	3034.4	3115.2	3196.0	2768.8	3196.0
285.2	87.5°	446.4	607.6	750.1	892.6	1053.4	1214.2	1221.1	1227.9	1030.8	1227.9
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°
3457.4	0°	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4	3457.4
3816.3	2.5°	3810.3	3798.3	3786.4	3766.4	3746.3	3732.1	3718.1
4263.5	5°	4247.4	4220.9	4194.4	4145.4	4096.6	4047.2	3998.0
4693.7	7.5°	4670.2	4626.9	4583.5	4511.4	4439.4	4359.4	4279.3
4978.3	10°	4955.5	4904.5	4853.3	4768.8	4684.3	4589.6	4494.9
5071.4	12.5°	5059.0	5021.8	4984.7	4908.5	4832.1	4729.6	4626.9
4969.6	15°	4982.8	4981.5	4980.2	4932.1	4884.2	4795.8	4707.1
4716.9	17.5°	4766.2	4819.9	4873.6	4872.8	4871.9	4812.1	4752.2
4394.2	20°	4480.5	4599.1	4717.7	4780.8	4843.8	4822.8	4802.0
4087.0	22.5°	4195.0	4369.5	4543.9	4674.5	4805.0	4832.4	4859.7
3827.8	25°	3941.4	4153.2	4365.1	4563.3	4761.5	4847.8	4934.0
3620.0	27.5°	3731.7	3966.6	4201.4	4463.8	4726.4	4880.7	5034.8
3471.8	30°	3575.5	3820.1	4064.7	4387.9	4711.1	4940.9	5170.8
3429.4	32.5°	3510.7	3740.6	3970.5	4336.2	4701.8	5016.5	5331.3
3655.7	35°	3674.7	3834.3	3994.0	4374.9	4756.0	5141.1	5526.4
4321.9	37.5°	4235.1	4245.4	4255.8	4602.1	4948.3	5401.5	5854.7
5424.6	40°	5213.7	5031.9	4850.1	5107.7	5365.2	5858.0	6350.9
6910.8	42.5°	6527.1	6130.7	5734.3	5882.6	6030.9	6519.9	7009.0
8712.7	45°	8082.3	7447.0	6811.9	6877.5	6942.9	7382.3	7821.6
10711.6	47.5°	9788.7	8872.7	7956.5	7969.7	7983.0	8410.5	8837.8
12698.5	50°	11480.2	10299.4	9118.7	9116.4	9114.2	9641.9	10169.8
14619.4	52.5°	13112.0	11701.6	10291.2	10356.0	10420.6	11059.6	11698.8
16496.2	55°	14699.2	13129.5	11559.8	11811.7	12063.7	12695.2	13326.7
18314.3	57.5°	16278.9	14693.9	13108.9	13614.1	14119.4	14463.4	14807.3
20694.7	60°	18515.4	17015.5	15515.5	16143.0	16770.5	16236.3	15702.2
22846.8	62.5°	20773.5	19399.3	18025.2	18096.0	18166.8	16707.3	15247.8
23122.9	65°	21112.4	19366.1	17619.9	17349.0	17077.9	15708.1	14338.3
21637.3	67.5°	19618.2	17798.9	15979.4	15852.5	15725.4	14422.6	13119.7
19595.2	70°	17857.6	16230.7	14603.6	14546.7	14489.9	13072.8	11655.7
17092.4	72.5°	15791.0	14518.1	13245.1	13204.4	13163.5	11537.2	9911.1
14269.3	75°	13353.2	12362.8	11372.5	11221.4	11070.2	9387.2	7704.1
11234.8	77.5°	10585.1	9832.2	9079.3	8863.0	8646.8	7075.6	5504.5
8261.9	80°	7920.7	7352.3	6783.7	6514.9	6246.1	4924.4	3602.7
5427.3	82.5°	5284.9	4893.5	4502.2	4201.8	3901.6	2997.8	2094.2
3115.2	85°	3034.4	2713.0	2391.4	2136.0	1880.6	1401.0	921.4
1221.1	87.5°	1214.2	1053.4	892.6	750.1	607.6	446.4	285.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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