

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: NEO-RAY

Report Number: P333485-840

Luminaire Tested: **S125DIW-S1270D1560U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333485-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125DIW-S1270D1560U840-4F0-1E-UDD-A1  
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1270 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10699.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.52  
Luminous Opening: Rectangular (W 4' x L: 0.42' x H: 0')  
CIE Type: General Diffuse

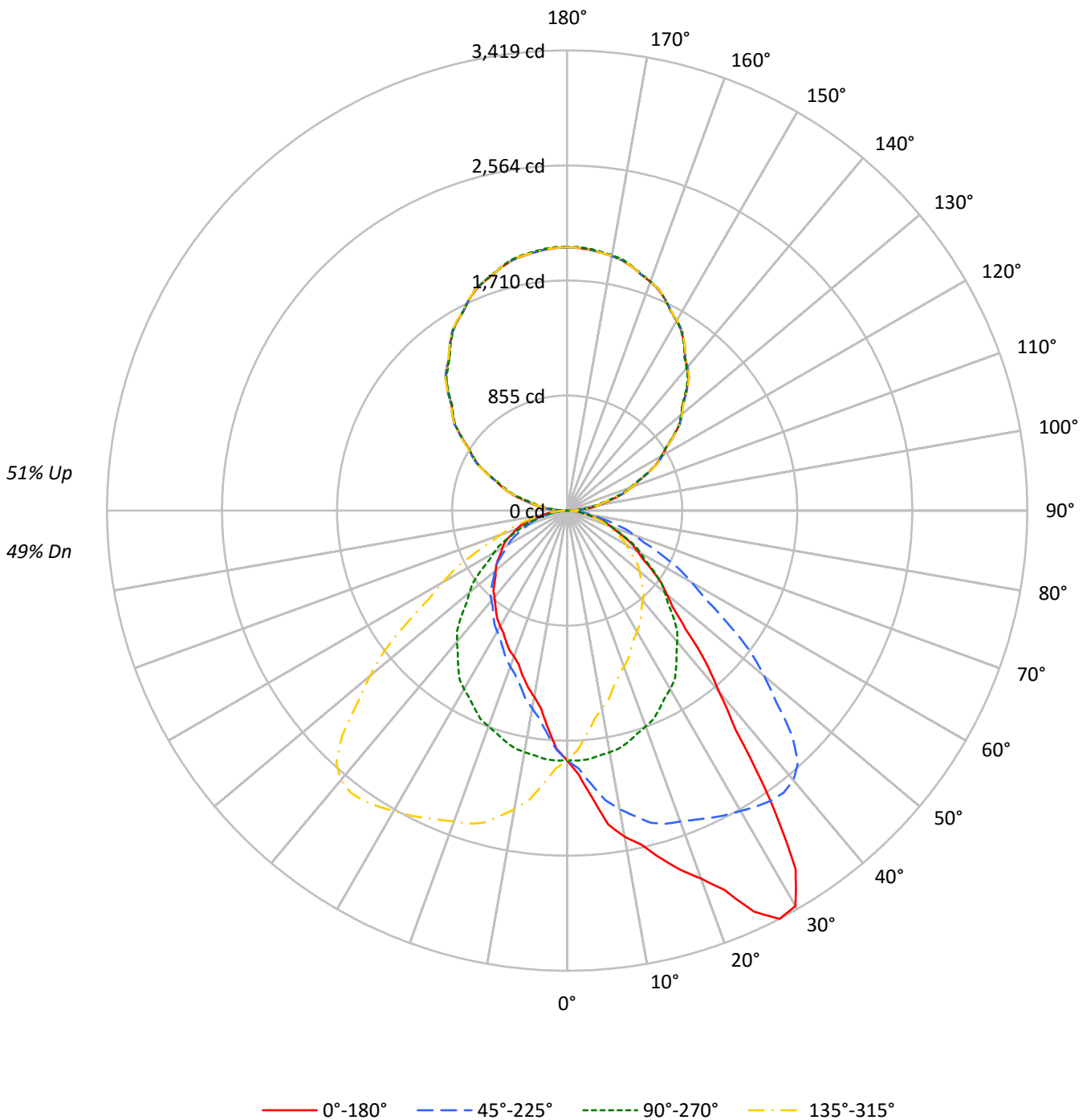
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11978	11978	11978	11978
5°	13871	12019	10524	12019
10°	16138	11956	9220	11956
15°	17864	11869	8505	11869
20°	19996	11730	7932	11730
25°	23426	11573	7652	11573
30°	25302	11419	7409	11419
35°	20805	11129	7250	11129
40°	14787	10725	7075	10725
45°	11359	10181	6974	10181
50°	9697	9507	6961	9507
55°	8634	8847	7020	8847
60°	7789	8123	7198	8123
65°	7195	7398	7386	7398
70°	6541	6643	7493	6643
75°	5777	5854	7426	5854
80°	4861	4775	6791	4775
85°	3846	3446	5483	3446



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	1.7
10°-20°	531.6	5.0
20°-30°	863.2	8.1
30°-40°	1053.0	9.8
40°-50°	957.9	9.0
50°-60°	763.0	7.1
60°-70°	531.4	5.0
70°-80°	283.4	2.6
80°-90°	75.8	0.7
90°-100°	131.1	1.2
100°-110°	387.1	3.6
110°-120°	655.6	6.1
120°-130°	862.9	8.1
130°-140°	966.8	9.0
140°-150°	947.6	8.9
150°-160°	795.9	7.4
160°-170°	529.1	4.9
170°-180°	185.2	1.7
0°-30°	1573.4	14.7
0°-40°	2626.3	24.5
0°-60°	4347.2	40.6
0°-90°	5237.8	49.0
90°-120°	1173.8	11.0
90°-150°	3951.1	36.9
90°-180°	5461.0	51.0
0°-180°	10699.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1855	1855	1855	1855	1855	
5°	2140	1854	1623	1854	2140	216
15°	2672	1775	1272	1775	2672	765
25°	3287	1624	1074	1624	3287	1502
35°	2639	1412	920	1412	2639	1615
45°	1244	1115	764	1115	1244	995
55°	767	786	624	786	767	691
65°	471	484	483	484	471	467
75°	232	235	298	235	232	249
85°	52	46	74	46	52	61
90°	37	2	37	2	37	23
95°	131	99	131	99	131	133
105°	378	347	378	347	378	400
115°	663	656	663	656	663	655
125°	964	958	964	958	964	861
135°	1250	1246	1250	1246	1250	965
145°	1515	1509	1515	1509	1515	946
155°	1727	1727	1727	1727	1727	795
165°	1873	1878	1873	1878	1873	528
175°	1945	1953	1945	1953	1945	185
180°	1957	1957	1957	1957	1957	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1961.8	1959.2	1956.7	1951.7	1955.4	1944.7	1939.6	1930.9	1920.2	1916.4	1912.0
5°	2139.6	2143.5	2147.5	2131.0	2132.5	2121.5	2096.4	2075.9	2059.3	2038.1	2023.2
7.5°	2353.8	2344.5	2343.7	2333.0	2314.6	2299.8	2273.3	2239.6	2207.1	2169.9	2139.2
10°	2460.8	2461.6	2454.6	2442.0	2422.3	2408.1	2373.5	2340.4	2300.3	2253.0	2219.2
12.5°	2541.4	2544.8	2535.8	2518.8	2509.1	2477.4	2450.2	2411.0	2363.2	2325.4	2273.9
15°	2671.8	2663.1	2656.9	2635.5	2619.1	2586.0	2542.7	2501.7	2449.8	2401.8	2353.8
17.5°	2797.4	2804.4	2792.6	2773.2	2721.9	2683.3	2625.2	2569.1	2504.5	2440.0	2382.8
20°	2909.5	2915.9	2897.7	2863.9	2802.5	2763.9	2687.6	2615.1	2540.3	2457.7	2394.7
22.5°	3049.4	3044.3	3019.9	2968.4	2915.2	2843.9	2761.3	2673.0	2579.4	2486.0	2402.3
25°	3287.4	3254.3	3239.3	3175.6	3105.5	3000.8	2887.5	2758.3	2641.9	2518.3	2411.3
27.5°	3419.3	3408.9	3392.2	3347.9	3274.2	3162.2	3028.6	2871.2	2706.9	2550.9	2410.7
30°	3392.8	3394.5	3396.1	3381.8	3334.7	3250.4	3117.4	2948.1	2752.9	2577.4	2415.2
32.5°	3158.7	3187.2	3214.7	3247.1	3260.3	3244.1	3160.8	3008.0	2807.0	2607.6	2412.7
35°	2638.8	2647.4	2736.3	2824.5	2944.2	3037.1	3099.3	3031.5	2862.3	2633.2	2409.6
37.5°	2057.5	2100.0	2161.5	2261.2	2433.9	2588.5	2787.3	2878.8	2824.2	2641.6	2404.2
40°	1753.9	1793.3	1833.4	1935.0	2080.6	2268.0	2493.9	2686.7	2731.6	2615.1	2385.3
42.5°	1519.6	1550.8	1595.4	1671.7	1793.4	1959.3	2175.2	2427.3	2582.3	2538.3	2345.6
45°	1243.7	1263.4	1298.1	1358.8	1446.9	1576.8	1767.3	2042.9	2282.9	2362.4	2251.4
47.5°	1064.6	1064.5	1091.4	1133.3	1196.9	1307.3	1448.1	1664.1	1920.5	2110.2	2101.4
50°	965.1	961.2	982.4	1018.7	1069.0	1142.3	1276.9	1449.3	1695.7	1910.6	1970.3
52.5°	879.5	879.9	893.0	919.8	962.0	1024.5	1125.1	1280.5	1491.0	1711.5	1824.3
55°	766.8	763.6	778.5	796.7	827.4	868.3	940.7	1059.6	1230.4	1447.6	1594.1
57.5°	663.5	672.2	678.1	690.7	716.2	743.6	804.7	891.9	1027.4	1213.9	1368.7
60°	603.0	611.7	616.4	628.9	649.4	673.1	720.3	791.1	905.3	1065.9	1219.4
62.5°	548.9	555.6	557.1	568.6	585.2	608.2	645.4	704.9	795.1	935.5	1085.9
65°	470.8	470.8	473.9	485.7	493.6	514.0	542.4	585.7	658.1	767.5	895.9
67.5°	395.5	399.3	398.5	403.6	410.9	426.9	447.2	482.9	536.5	616.4	719.0
70°	346.4	349.5	348.7	352.6	360.5	370.8	387.3	421.1	459.7	528.3	616.4
72.5°	302.3	303.6	301.5	306.7	311.4	320.4	338.8	356.9	392.9	450.8	523.2
75°	231.5	233.0	234.6	237.7	242.5	247.2	256.6	274.8	298.3	341.6	388.1
77.5°	173.5	170.5	174.3	173.8	176.5	180.2	188.4	198.0	217.4	244.8	280.7
80°	130.7	131.5	131.5	132.3	136.2	138.6	145.6	152.7	167.6	188.1	213.4
82.5°	95.4	97.5	96.2	97.7	100.9	102.6	106.5	112.4	121.1	137.1	155.4
85°	51.9	48.1	49.6	51.2	51.2	51.9	55.1	57.5	62.2	68.5	75.5
87.5°	22.4	23.5	23.9	23.7	24.1	23.8	26.1	25.8	27.3	28.8	30.8
90°	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8	26.1	24.3	22.0
92.5°	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9	60.7	58.5	55.5
95°	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0	119.7	117.2	113.9
97.5°	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2	188.9	186.7	182.1
100°	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1	236.1	233.0	228.6
102.5°	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4	285.1	281.8	279.5
105°	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1	366.1	364.1	361.9
107.5°	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0	453.0	452.0	450.5
110°	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8	512.7	511.7	510.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6	573.1	572.7	571.4
115°	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9	665.2	665.6	664.9
117.5°	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3	756.0	755.8	755.1
120°	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9	817.9	817.9	817.5
122.5°	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3	878.5	878.8	877.9
125°	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3	968.0	968.7	968.4
127.5°	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7	1056.0	1056.4	1056.0
130°	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2	1114.5	1114.9	1114.2
132.5°	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2	1170.5	1170.9	1171.0
135°	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5	1256.5	1256.5	1256.2
137.5°	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5	1340.1	1339.7	1338.9
140°	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4	1392.7	1392.1	1391.1
142.5°	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2	1444.8	1444.4	1443.2
145°	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9	1519.9	1519.9	1518.9
147.5°	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2	1588.4	1587.6	1586.8
150°	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7	1632.7	1632.7	1631.3
152.5°	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3	1672.5	1671.7	1671.1
155°	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3	1730.0	1728.7	1728.3
157.5°	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6	1780.3	1778.9	1778.6
160°	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1	1810.7	1809.4	1809.1
162.5°	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7	1839.1	1837.3	1837.3
165°	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1	1877.7	1876.4	1876.0
167.5°	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5	1905.5	1903.5	1903.5
170°	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6	1922.6	1920.6	1920.6
172.5°	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8	1934.8	1932.8	1932.8
175°	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6	1948.4	1946.4	1946.4
177.5°	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7	1955.1	1953.5	1953.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1908.2	1903.8	1898.7	1890.0	1879.3	1873.6	1864.7	1859.1	1847.8	1838.3	1828.3
5°	2005.0	1984.6	1965.7	1941.3	1914.5	1897.1	1876.7	1853.9	1830.3	1805.8	1779.1
7.5°	2105.4	2069.1	2029.7	1987.4	1946.0	1907.8	1871.5	1835.7	1802.4	1762.1	1728.0
10°	2172.7	2127.1	2078.2	2020.7	1964.9	1916.1	1866.4	1823.2	1779.1	1731.8	1690.1
12.5°	2240.1	2179.3	2110.3	2047.2	1980.0	1921.1	1862.7	1807.5	1752.0	1699.7	1651.1
15°	2287.6	2234.1	2170.3	2080.6	2005.0	1924.0	1846.8	1775.1	1708.3	1650.0	1588.6
17.5°	2319.0	2250.0	2181.5	2095.4	1996.4	1905.7	1818.3	1736.3	1660.8	1587.0	1527.8
20°	2324.6	2253.8	2182.1	2097.9	1996.4	1892.5	1805.0	1706.7	1625.6	1549.2	1476.8
22.5°	2322.8	2242.4	2164.5	2077.8	1978.7	1883.0	1777.4	1677.1	1589.0	1514.0	1438.4
25°	2304.9	2219.2	2121.5	2034.2	1936.5	1835.0	1728.0	1624.1	1534.3	1448.4	1373.7
27.5°	2290.2	2178.9	2068.3	1966.4	1872.2	1779.1	1676.6	1570.1	1470.7	1383.7	1313.2
30°	2271.9	2149.9	2025.5	1919.2	1822.4	1731.8	1635.1	1531.2	1427.2	1342.2	1266.7
32.5°	2255.5	2113.3	1982.1	1866.3	1763.8	1675.8	1586.5	1487.6	1385.6	1299.4	1223.8
35°	2223.9	2059.3	1908.9	1778.3	1668.9	1578.3	1503.6	1411.5	1317.8	1234.4	1162.0
37.5°	2183.7	1988.5	1827.1	1690.1	1570.1	1474.8	1405.1	1334.4	1244.6	1164.2	1098.6
40°	2152.2	1938.1	1767.3	1627.2	1502.8	1403.6	1339.1	1272.1	1197.4	1122.6	1053.3
42.5°	2112.5	1892.8	1706.9	1556.0	1432.9	1336.3	1268.5	1211.6	1145.7	1076.0	1011.7
45°	2039.6	1810.6	1609.0	1446.9	1322.5	1227.3	1157.2	1114.7	1065.1	999.0	944.6
47.5°	1932.5	1711.8	1503.4	1336.1	1207.7	1119.4	1053.8	1013.0	978.1	928.9	879.6
50°	1837.3	1638.2	1427.2	1261.1	1132.8	1043.8	983.2	946.2	916.4	878.5	836.8
52.5°	1730.9	1545.6	1352.3	1188.1	1061.0	973.3	913.9	881.4	856.5	829.4	788.3
55°	1561.9	1404.4	1224.9	1069.0	951.7	866.0	814.0	785.7	765.2	744.7	719.5
57.5°	1375.5	1252.4	1093.5	951.0	842.9	764.9	716.4	688.8	672.9	662.4	647.5
60°	1244.6	1139.1	1002.1	872.2	766.8	697.5	650.3	628.9	615.6	606.9	595.9
62.5°	1123.1	1036.4	909.6	791.0	698.7	633.2	591.1	570.4	557.6	553.4	544.3
65°	943.8	877.0	772.2	673.9	595.1	539.3	503.8	484.1	476.3	471.5	472.3
67.5°	767.4	726.6	642.5	558.6	495.7	448.9	420.5	405.5	401.5	395.2	395.1
70°	659.6	628.9	558.2	484.9	429.0	392.8	367.6	351.8	347.9	344.8	344.1
72.5°	564.6	537.7	476.3	417.6	367.3	335.5	314.8	305.3	298.8	296.9	296.8
75°	424.3	409.4	360.5	314.1	279.4	257.4	243.3	234.6	229.8	229.0	229.8
77.5°	301.6	288.6	257.6	224.7	202.8	186.1	174.1	171.2	165.8	165.9	165.1
80°	226.7	218.0	198.3	172.4	154.3	140.2	133.8	128.4	126.7	124.4	126.7
82.5°	164.4	155.1	141.7	125.1	110.2	101.7	95.4	93.7	92.7	91.6	92.1
85°	81.1	81.9	74.0	61.4	55.1	50.4	46.5	46.5	45.6	44.8	45.6
87.5°	31.6	29.9	26.9	24.5	20.8	18.4	17.3	17.3	16.0	15.9	17.1
90°	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5	4.2	7.0	9.7
92.5°	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9	38.8	40.7	42.5
95°	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0	99.7	100.4	101.0
97.5°	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5	164.7	165.0	165.3
100°	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2	213.2	213.2	213.2
102.5°	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6	267.0	268.3	269.6
105°	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3	348.9	350.6	352.3
107.5°	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4	439.1	440.8	442.5
110°	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6	501.3	502.9	504.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9	563.8	564.7	565.5
115°	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4	657.8	659.1	660.5
117.5°	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2	750.8	751.4	752.0
120°	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7	810.4	812.1	813.9
122.5°	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1	872.7	873.3	873.9
125°	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0	960.0	962.1	964.1
127.5°	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4	1050.6	1051.7	1052.8
130°	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2	1105.9	1107.6	1109.2
132.5°	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0	1161.8	1164.6	1167.4
135°	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9	1247.9	1249.9	1251.9
137.5°	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5	1329.5	1331.4	1333.3
140°	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9	1381.6	1383.2	1384.9
142.5°	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3	1433.7	1435.1	1436.5
145°	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3	1510.7	1512.1	1513.4
147.5°	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6	1581.3	1582.1	1582.9
150°	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1	1627.8	1627.5	1627.1
152.5°	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1	1667.6	1668.1	1668.5
155°	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7	1780.0	1779.3	1778.5
160°	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4	1811.4	1810.4	1809.4
162.5°	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5	1839.7	1839.0	1838.3
165°	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9	1877.2	1876.5	1875.9
167.5°	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6	1908.2	1906.9	1905.5
170°	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6	1925.3	1923.9	1922.6
172.5°	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8	1937.5	1936.1	1934.8
175°	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6	1951.2	1949.8	1948.4
177.5°	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5	1958.4	1957.4	1956.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1822.5	1815.6	1810.0	1797.4	1790.4	1781.0	1773.4	1781.6	1772.8	1776.6	1770.9
5°	1765.7	1743.6	1728.0	1705.1	1685.5	1667.3	1654.0	1651.5	1645.3	1642.1	1632.6
7.5°	1697.4	1669.8	1642.7	1612.9	1587.6	1562.0	1545.6	1532.1	1523.1	1511.3	1503.3
10°	1657.1	1620.1	1588.6	1552.4	1520.9	1493.4	1471.3	1460.3	1450.1	1435.1	1429.6
12.5°	1607.3	1569.0	1530.7	1492.0	1461.7	1431.0	1412.1	1395.4	1388.4	1371.5	1369.8
15°	1547.6	1490.2	1452.4	1413.0	1371.3	1346.2	1330.4	1312.3	1304.4	1292.6	1283.9
17.5°	1476.5	1425.1	1378.0	1337.2	1301.4	1280.2	1260.6	1248.2	1234.7	1227.0	1212.7
20°	1424.8	1376.0	1328.8	1285.6	1258.0	1233.6	1217.8	1206.0	1191.8	1187.9	1173.8
22.5°	1381.4	1327.6	1282.2	1245.9	1215.8	1188.2	1171.2	1163.2	1153.5	1141.3	1138.4
25°	1310.7	1254.9	1216.3	1180.0	1153.3	1128.1	1116.3	1106.0	1096.6	1087.9	1084.8
27.5°	1249.6	1199.7	1153.9	1121.2	1097.8	1074.9	1064.5	1052.1	1045.1	1038.1	1029.7
30°	1206.8	1155.6	1115.5	1084.0	1058.8	1038.3	1027.3	1018.7	1012.4	1006.0	1001.4
32.5°	1162.8	1115.3	1076.4	1045.6	1020.4	1004.9	995.2	989.1	982.1	974.5	968.6
35°	1104.5	1052.5	1014.7	988.0	968.3	956.4	945.4	939.9	932.1	932.1	925.7
37.5°	1038.8	993.9	960.6	936.1	918.5	908.0	896.1	892.2	887.2	883.8	881.7
40°	999.8	958.1	926.6	902.1	883.2	874.5	865.2	858.9	855.7	851.7	850.2
42.5°	959.5	919.6	889.4	866.9	850.5	843.1	834.2	829.9	823.5	818.4	817.5
45°	898.2	859.6	832.1	814.0	799.8	791.1	785.7	776.2	773.1	766.8	766.0
47.5°	840.1	803.1	776.1	761.2	748.8	741.7	733.1	723.6	720.0	716.8	716.5
50°	796.7	762.9	737.6	723.5	711.7	701.5	692.8	686.4	684.1	684.1	685.7
52.5°	752.6	723.8	702.4	685.0	673.9	663.0	655.0	651.2	647.5	651.4	654.2
55°	688.0	658.9	643.2	626.6	615.6	603.0	599.1	597.5	595.1	601.5	604.6
57.5°	619.7	599.3	580.8	564.4	554.5	547.2	541.9	541.0	545.4	548.4	558.6
60°	576.2	552.6	536.1	523.5	511.7	507.0	505.4	503.8	507.0	515.6	529.0
62.5°	528.4	509.2	491.4	481.9	473.2	465.4	465.0	466.1	472.3	482.2	495.6
65°	458.2	441.6	429.8	418.8	411.7	407.0	408.6	411.7	418.8	432.2	447.2
67.5°	386.9	375.5	365.0	356.0	349.2	349.2	350.8	355.5	363.9	379.3	392.9
70°	340.8	328.3	319.6	315.7	310.1	307.0	311.7	319.6	326.7	340.8	352.6
72.5°	294.9	284.2	277.4	274.8	272.4	269.8	271.5	279.9	289.5	303.7	317.4
75°	226.7	222.8	218.0	214.9	212.6	214.1	215.7	223.6	231.5	246.4	262.2
77.5°	165.5	161.4	158.5	157.7	156.5	157.2	161.7	167.5	175.2	186.1	198.0
80°	125.1	123.6	122.0	121.2	121.2	122.0	128.4	132.3	139.4	149.6	159.1
82.5°	91.2	90.2	89.9	89.8	90.4	90.5	94.3	99.5	105.3	113.0	121.2
85°	48.1	46.5	48.8	49.6	48.1	50.4	51.9	55.1	57.5	61.4	65.3
87.5°	18.2	20.0	19.8	20.9	21.4	23.1	22.8	25.8	27.3	28.9	28.6
90°	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8	29.5	31.1	32.5
92.5°	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9	65.1	67.5	68.9
95°	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0	124.4	126.7	128.3
97.5°	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2	193.4	195.6	197.0
100°	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1	242.2	245.2	247.1
102.5°	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4	291.8	295.0	297.2
105°	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1	370.1	372.1	373.7
107.5°	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0	455.0	456.1	456.6
110°	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8	514.8	515.8	516.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6	574.1	574.5	574.5
115°	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9	664.6	664.2	663.9
117.5°	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3	756.6	756.8	756.3
120°	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9	817.9	817.9	817.2
122.5°	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3	878.0	877.7	877.1
125°	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3	966.6	965.9	965.4
127.5°	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7	1055.4	1055.0	1054.5
130°	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2	1113.9	1113.5	1113.0
132.5°	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2	1169.9	1169.5	1168.9
135°	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5	1256.5	1256.5	1255.9
137.5°	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5	1340.9	1341.3	1340.7
140°	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4	1394.1	1394.7	1394.2
142.5°	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2	1445.6	1446.1	1445.4
145°	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.4
147.5°	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2	1590.0	1590.8	1590.1
150°	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7	1632.7	1632.7	1632.3
152.5°	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3	1674.2	1675.0	1674.8
155°	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3	1732.7	1734.0	1733.9
157.5°	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6	1783.0	1784.3	1783.9
160°	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1	1813.4	1814.8	1814.6
162.5°	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7	1842.3	1843.9	1843.7
165°	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1	1880.5	1881.8	1881.5
167.5°	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5	1909.6	1911.6	1911.6
170°	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6	1926.6	1928.6	1928.5
172.5°	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8	1938.8	1940.9	1940.9
175°	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6	1952.6	1954.6	1954.4
177.5°	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7	1958.3	1959.9	1959.8
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1767.2	1771.5	1767.8	1772.8	1767.8	1771.5	1767.2	1770.9	1776.6	1772.8	1781.6
5°	1628.7	1621.6	1626.4	1623.3	1626.4	1621.6	1628.7	1632.6	1642.1	1645.3	1651.5
7.5°	1500.9	1494.1	1486.4	1482.8	1486.4	1494.1	1500.9	1503.3	1511.3	1523.1	1532.1
10°	1420.9	1412.3	1411.5	1405.9	1411.5	1412.3	1420.9	1429.6	1435.1	1450.1	1460.3
12.5°	1362.3	1354.3	1345.3	1343.0	1345.3	1354.3	1362.3	1369.8	1371.5	1388.4	1395.4
15°	1279.2	1272.9	1267.4	1272.1	1267.4	1272.9	1279.2	1283.9	1292.6	1304.4	1312.3
17.5°	1210.1	1204.9	1204.0	1198.1	1204.0	1204.9	1210.1	1212.7	1227.0	1234.7	1248.2
20°	1166.7	1162.8	1164.3	1154.1	1164.3	1162.8	1166.7	1173.8	1187.9	1191.8	1206.0
22.5°	1132.1	1124.3	1123.4	1121.4	1123.4	1124.3	1132.1	1138.4	1141.3	1153.5	1163.2
25°	1077.7	1073.8	1069.9	1073.8	1069.9	1073.8	1077.7	1084.8	1087.9	1096.6	1106.0
27.5°	1030.3	1025.6	1024.5	1024.9	1024.5	1025.6	1030.3	1029.7	1038.1	1045.1	1052.1
30°	1001.4	993.5	994.2	993.5	994.2	993.5	1001.4	1001.4	1006.0	1012.4	1018.7
32.5°	969.9	964.5	963.4	962.0	963.4	964.5	969.9	968.6	974.5	982.1	989.1
35°	923.4	923.4	919.5	919.5	919.5	923.4	923.4	925.7	932.1	932.1	939.9
37.5°	879.8	879.0	876.7	877.0	876.7	879.0	879.8	881.7	883.8	887.2	892.2
40°	847.1	846.3	843.8	839.2	843.8	846.3	847.1	850.2	851.7	855.7	858.9
42.5°	815.6	812.8	811.7	810.2	811.7	812.8	815.6	817.5	818.4	823.5	829.9
45°	766.0	766.0	764.4	763.6	764.4	766.0	766.0	766.0	766.8	773.1	776.2
47.5°	717.8	719.2	722.2	721.8	722.2	719.2	717.8	716.5	716.8	720.0	723.6
50°	688.8	689.6	692.0	692.8	692.0	689.6	688.8	685.7	684.1	684.1	686.4
52.5°	656.7	661.3	664.3	663.8	664.3	661.3	656.7	654.2	651.4	647.5	651.2
55°	611.7	617.1	622.7	623.5	622.7	617.1	611.7	604.6	601.5	595.1	597.5
57.5°	567.1	574.8	580.7	582.5	580.7	574.8	567.1	558.6	548.4	545.4	541.0
60°	536.8	547.1	554.2	557.3	554.2	547.1	536.8	529.0	515.6	507.0	503.8
62.5°	507.9	519.4	526.4	527.1	526.4	519.4	507.9	495.6	482.2	472.3	466.1
65°	460.5	472.3	478.6	483.3	478.6	472.3	460.5	447.2	432.2	418.8	411.7
67.5°	409.5	421.3	428.3	432.0	428.3	421.3	409.5	392.9	379.3	363.9	355.5
70°	372.3	384.2	393.6	396.8	393.6	384.2	372.3	352.6	340.8	326.7	319.6
72.5°	335.8	346.4	354.0	357.7	354.0	346.4	335.8	317.4	303.7	289.5	279.9
75°	272.4	286.5	293.7	297.6	293.7	286.5	272.4	262.2	246.4	231.5	223.6
77.5°	210.1	223.0	227.2	229.2	227.2	223.0	210.1	198.0	186.1	175.2	167.5
80°	168.4	176.3	181.9	182.6	181.9	176.3	168.4	159.1	149.6	139.4	132.3
82.5°	129.5	136.0	137.7	139.8	137.7	136.0	129.5	121.2	113.0	105.3	99.5
85°	70.9	74.0	74.8	74.0	74.8	74.0	70.9	65.3	61.4	57.5	55.1
87.5°	30.0	29.6	29.8	31.2	29.8	29.6	30.0	28.6	28.9	27.3	25.8
90°	33.5	34.5	35.5	36.6	35.5	34.5	33.5	32.5	31.1	29.5	27.8
92.5°	69.7	70.4	71.1	71.9	71.1	70.4	69.7	68.9	67.5	65.1	62.9
95°	129.0	129.7	130.3	131.0	130.3	129.7	129.0	128.3	126.7	124.4	122.0
97.5°	197.4	197.8	198.2	198.6	198.2	197.8	197.4	197.0	195.6	193.4	191.2
100°	247.7	248.4	249.1	249.7	249.1	248.4	247.7	247.1	245.2	242.2	239.1
102.5°	298.1	299.0	300.0	300.9	300.0	299.0	298.1	297.2	295.0	291.8	288.4
105°	374.7	375.7	376.7	377.7	376.7	375.7	374.7	373.7	372.1	370.1	368.1
107.5°	456.5	456.5	456.4	456.3	456.4	456.5	456.5	456.6	456.1	455.0	454.0
110°	515.8	515.4	515.1	514.8	515.1	515.4	515.8	516.1	515.8	514.8	513.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	573.9	573.3	572.7	572.1	572.7	573.3	573.9	574.5	574.5	574.1	573.6
115°	663.6	663.2	662.9	662.6	662.9	663.2	663.6	663.9	664.2	664.6	664.9
117.5°	754.9	753.6	752.2	750.8	752.2	753.6	754.9	756.3	756.8	756.6	756.3
120°	815.9	814.5	813.1	811.8	813.1	814.5	815.9	817.2	817.9	817.9	817.9
122.5°	876.0	874.8	873.7	872.7	873.7	874.8	876.0	877.1	877.7	878.0	878.3
125°	965.1	964.7	964.4	964.1	964.4	964.7	965.1	965.4	965.9	966.6	967.3
127.5°	1053.8	1053.2	1052.5	1051.8	1052.5	1053.2	1053.8	1054.5	1055.0	1055.4	1055.7
130°	1112.4	1111.7	1111.0	1110.3	1111.0	1111.7	1112.4	1113.0	1113.5	1113.9	1114.2
132.5°	1168.0	1167.0	1166.1	1165.1	1166.1	1167.0	1168.0	1168.9	1169.5	1169.9	1170.2
135°	1254.5	1253.1	1251.7	1250.4	1251.7	1253.1	1254.5	1255.9	1256.5	1256.5	1256.5
137.5°	1339.0	1337.3	1335.5	1333.8	1335.5	1337.3	1339.0	1340.7	1341.3	1340.9	1340.5
140°	1392.6	1390.9	1389.2	1387.5	1389.2	1390.9	1392.6	1394.2	1394.7	1394.1	1393.4
142.5°	1443.7	1442.1	1440.4	1438.7	1440.4	1442.1	1443.7	1445.4	1446.1	1445.6	1445.2
145°	1518.4	1517.4	1516.4	1515.4	1516.4	1517.4	1518.4	1519.4	1519.9	1519.9	1519.9
147.5°	1587.8	1585.5	1583.3	1580.9	1583.3	1585.5	1587.8	1590.1	1590.8	1590.0	1589.2
150°	1631.6	1631.0	1630.3	1629.6	1630.3	1631.0	1631.6	1632.3	1632.7	1632.7	1632.7
152.5°	1673.5	1672.3	1671.1	1669.9	1671.1	1672.3	1673.5	1674.8	1675.0	1674.2	1673.3
155°	1732.2	1730.5	1728.8	1727.2	1728.8	1730.5	1732.2	1733.9	1734.0	1732.7	1731.3
157.5°	1781.6	1779.4	1777.2	1774.9	1777.2	1779.4	1781.6	1783.9	1784.3	1783.0	1781.6
160°	1812.9	1811.2	1809.6	1807.9	1809.6	1811.2	1812.9	1814.6	1814.8	1813.4	1812.1
162.5°	1841.8	1839.8	1837.9	1835.8	1837.9	1839.8	1841.8	1843.7	1843.9	1842.3	1840.7
165°	1879.5	1877.4	1875.4	1873.3	1875.4	1877.4	1879.5	1881.5	1881.8	1880.5	1879.1
167.5°	1909.5	1907.4	1905.3	1903.2	1905.3	1907.4	1909.5	1911.6	1911.6	1909.6	1907.5
170°	1926.1	1923.8	1921.4	1919.0	1921.4	1923.8	1926.1	1928.5	1928.6	1926.6	1924.6
172.5°	1938.7	1936.6	1934.5	1932.5	1934.5	1936.6	1938.7	1940.9	1940.9	1938.8	1936.8
175°	1952.1	1949.6	1947.3	1944.9	1947.3	1949.6	1952.1	1954.4	1954.6	1952.6	1950.6
177.5°	1957.9	1956.0	1954.1	1952.3	1954.1	1956.0	1957.9	1959.8	1959.9	1958.3	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1773.4	1781.0	1790.4	1797.4	1810.0	1815.6	1822.5	1828.3	1838.3	1847.8	1859.1
5°	1654.0	1667.3	1685.5	1705.1	1728.0	1743.6	1765.7	1779.1	1805.8	1830.3	1853.9
7.5°	1545.6	1562.0	1587.6	1612.9	1642.7	1669.8	1697.4	1728.0	1762.1	1802.4	1835.7
10°	1471.3	1493.4	1520.9	1552.4	1588.6	1620.1	1657.1	1690.1	1731.8	1779.1	1823.2
12.5°	1412.1	1431.0	1461.7	1492.0	1530.7	1569.0	1607.3	1651.1	1699.7	1752.0	1807.5
15°	1330.4	1346.2	1371.3	1413.0	1452.4	1490.2	1547.6	1588.6	1650.0	1708.3	1775.1
17.5°	1260.6	1280.2	1301.4	1337.2	1378.0	1425.1	1476.5	1527.8	1587.0	1660.8	1736.3
20°	1217.8	1233.6	1258.0	1285.6	1328.8	1376.0	1424.8	1476.8	1549.2	1625.6	1706.7
22.5°	1171.2	1188.2	1215.8	1245.9	1282.2	1327.6	1381.4	1438.4	1514.0	1589.0	1677.1
25°	1116.3	1128.1	1153.3	1180.0	1216.3	1254.9	1310.7	1373.7	1448.4	1534.3	1624.1
27.5°	1064.5	1074.9	1097.8	1121.2	1153.9	1199.7	1249.6	1313.2	1383.7	1470.7	1570.1
30°	1027.3	1038.3	1058.8	1084.0	1115.5	1155.6	1206.8	1266.7	1342.2	1427.2	1531.2
32.5°	995.2	1004.9	1020.4	1045.6	1076.4	1115.3	1162.8	1223.8	1299.4	1385.6	1487.6
35°	945.4	956.4	968.3	988.0	1014.7	1052.5	1104.5	1162.0	1234.4	1317.8	1411.5
37.5°	896.1	908.0	918.5	936.1	960.6	993.9	1038.8	1098.6	1164.2	1244.6	1334.4
40°	865.2	874.5	883.2	902.1	926.6	958.1	999.8	1053.3	1122.6	1197.4	1272.1
42.5°	834.2	843.1	850.5	866.9	889.4	919.6	959.5	1011.7	1076.0	1145.7	1211.6
45°	785.7	791.1	799.8	814.0	832.1	859.6	898.2	944.6	999.0	1065.1	1114.7
47.5°	733.1	741.7	748.8	761.2	776.1	803.1	840.1	879.6	928.9	978.1	1013.0
50°	692.8	701.5	711.7	723.5	737.6	762.9	796.7	836.8	878.5	916.4	946.2
52.5°	655.0	663.0	673.9	685.0	702.4	723.8	752.6	788.3	829.4	856.5	881.4
55°	599.1	603.0	615.6	626.6	643.2	658.9	688.0	719.5	744.7	765.2	785.7
57.5°	541.9	547.2	554.5	564.4	580.8	599.3	619.7	647.5	662.4	672.9	688.8
60°	505.4	507.0	511.7	523.5	536.1	552.6	576.2	595.9	606.9	615.6	628.9
62.5°	465.0	465.4	473.2	481.9	491.4	509.2	528.4	544.3	553.4	557.6	570.4
65°	408.6	407.0	411.7	418.8	429.8	441.6	458.2	472.3	471.5	476.3	484.1
67.5°	350.8	349.2	349.2	356.0	365.0	375.5	386.9	395.1	395.2	401.5	405.5
70°	311.7	307.0	310.1	315.7	319.6	328.3	340.8	344.1	344.8	347.9	351.8
72.5°	271.5	269.8	272.4	274.8	277.4	284.2	294.9	296.8	296.9	298.8	305.3
75°	215.7	214.1	212.6	214.9	218.0	222.8	226.7	229.8	229.0	229.8	234.6
77.5°	161.7	157.2	156.5	157.7	158.5	161.4	165.5	165.1	165.9	165.8	171.2
80°	128.4	122.0	121.2	121.2	122.0	123.6	125.1	126.7	124.4	126.7	128.4
82.5°	94.3	90.5	90.4	89.8	89.9	90.2	91.2	92.1	91.6	92.7	93.7
85°	51.9	50.4	48.1	49.6	48.8	46.5	48.1	45.6	44.8	45.6	46.5
87.5°	22.8	23.1	21.4	20.9	19.8	20.0	18.2	17.1	15.9	16.0	17.3
90°	26.1	24.3	22.0	19.6	17.3	14.8	12.3	9.7	7.0	4.2	1.5
92.5°	60.7	58.5	55.5	52.6	49.8	46.9	44.4	42.5	40.7	38.8	36.9
95°	119.7	117.2	113.9	110.5	107.1	103.7	101.7	101.0	100.4	99.7	99.0
97.5°	188.9	186.7	182.1	177.4	172.7	168.0	165.6	165.3	165.0	164.7	164.5
100°	236.1	233.0	228.6	224.2	219.8	215.4	213.2	213.2	213.2	213.2	213.2
102.5°	285.1	281.8	279.5	277.3	275.1	272.9	271.0	269.6	268.3	267.0	265.6
105°	366.1	364.1	361.9	359.9	357.9	355.9	354.1	352.3	350.6	348.9	347.3
107.5°	453.0	452.0	450.5	448.9	447.4	445.9	444.1	442.5	440.8	439.1	437.4
110°	512.7	511.7	510.7	509.7	508.7	507.7	506.3	504.6	502.9	501.3	499.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	573.1	572.7	571.4	570.1	568.8	567.5	566.4	565.5	564.7	563.8	562.9
115°	665.2	665.6	664.9	664.2	663.6	662.9	661.9	660.5	659.1	657.8	656.4
117.5°	756.0	755.8	755.1	754.5	753.9	753.3	752.7	752.0	751.4	750.8	750.2
120°	817.9	817.9	817.5	817.2	816.9	816.5	815.5	813.9	812.1	810.4	808.7
122.5°	878.5	878.8	877.9	877.1	876.2	875.3	874.5	873.9	873.3	872.7	872.1
125°	968.0	968.7	968.4	968.0	967.7	967.3	966.1	964.1	962.1	960.0	958.0
127.5°	1056.0	1056.4	1056.0	1055.6	1055.2	1054.8	1054.0	1052.8	1051.7	1050.6	1049.4
130°	1114.5	1114.9	1114.2	1113.5	1112.9	1112.2	1111.0	1109.2	1107.6	1105.9	1104.2
132.5°	1170.5	1170.9	1171.0	1171.1	1171.3	1171.4	1170.1	1167.4	1164.6	1161.8	1159.0
135°	1256.5	1256.5	1256.2	1255.9	1255.5	1255.2	1253.9	1251.9	1249.9	1247.9	1245.9
137.5°	1340.1	1339.7	1338.9	1338.2	1337.5	1336.7	1335.3	1333.3	1331.4	1329.5	1327.5
140°	1392.7	1392.1	1391.1	1390.1	1389.0	1388.0	1386.6	1384.9	1383.2	1381.6	1379.9
142.5°	1444.8	1444.4	1443.2	1441.9	1440.6	1439.3	1437.9	1436.5	1435.1	1433.7	1432.3
145°	1519.9	1519.9	1518.9	1517.9	1516.9	1515.9	1514.8	1513.4	1512.1	1510.7	1509.3
147.5°	1588.4	1587.6	1586.8	1586.0	1585.2	1584.4	1583.6	1582.9	1582.1	1581.3	1580.6
150°	1632.7	1632.7	1631.3	1630.0	1628.6	1627.3	1626.8	1627.1	1627.5	1627.8	1628.1
152.5°	1672.5	1671.7	1671.1	1670.6	1670.1	1669.5	1669.0	1668.5	1668.1	1667.6	1667.1
155°	1730.0	1728.7	1728.3	1728.0	1727.7	1727.3	1727.2	1727.2	1727.2	1727.2	1727.2
157.5°	1780.3	1778.9	1778.6	1778.3	1777.9	1777.6	1777.8	1778.5	1779.3	1780.0	1780.7
160°	1810.7	1809.4	1809.1	1808.7	1808.4	1808.1	1808.4	1809.4	1810.4	1811.4	1812.4
162.5°	1839.1	1837.3	1837.3	1837.2	1837.1	1837.1	1837.4	1838.3	1839.0	1839.7	1840.5
165°	1877.7	1876.4	1876.0	1875.7	1875.4	1875.0	1875.2	1875.9	1876.5	1877.2	1877.9
167.5°	1905.5	1903.5	1903.5	1903.5	1903.5	1903.5	1904.2	1905.5	1906.9	1908.2	1909.6
170°	1922.6	1920.6	1920.6	1920.6	1920.6	1920.6	1921.3	1922.6	1923.9	1925.3	1926.6
172.5°	1934.8	1932.8	1932.8	1932.8	1932.8	1932.8	1933.4	1934.8	1936.1	1937.5	1938.8
175°	1948.4	1946.4	1946.4	1946.4	1946.4	1946.4	1947.1	1948.4	1949.8	1951.2	1952.6
177.5°	1955.1	1953.5	1953.7	1954.0	1954.3	1954.5	1955.2	1956.3	1957.4	1958.4	1959.5
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1864.7	1873.6	1879.3	1890.0	1898.7	1903.8	1908.2	1912.0	1916.4	1920.2	1930.9
5°	1876.7	1897.1	1914.5	1941.3	1965.7	1984.6	2005.0	2023.2	2038.1	2059.3	2075.9
7.5°	1871.5	1907.8	1946.0	1987.4	2029.7	2069.1	2105.4	2139.2	2169.9	2207.1	2239.6
10°	1866.4	1916.1	1964.9	2020.7	2078.2	2127.1	2172.7	2219.2	2253.0	2300.3	2340.4
12.5°	1862.7	1921.1	1980.0	2047.2	2110.3	2179.3	2240.1	2273.9	2325.4	2363.2	2411.0
15°	1846.8	1924.0	2005.0	2080.6	2170.3	2234.1	2287.6	2353.8	2401.8	2449.8	2501.7
17.5°	1818.3	1905.7	1996.4	2095.4	2181.5	2250.0	2319.0	2382.8	2440.0	2504.5	2569.1
20°	1805.0	1892.5	1996.4	2097.9	2182.1	2253.8	2324.6	2394.7	2457.7	2540.3	2615.1
22.5°	1777.4	1883.0	1978.7	2077.8	2164.5	2242.4	2322.8	2402.3	2486.0	2579.4	2673.0
25°	1728.0	1835.0	1936.5	2034.2	2121.5	2219.2	2304.9	2411.3	2518.3	2641.9	2758.3
27.5°	1676.6	1779.1	1872.2	1966.4	2068.3	2178.9	2290.2	2410.7	2550.9	2706.9	2871.2
30°	1635.1	1731.8	1822.4	1919.2	2025.5	2149.9	2271.9	2415.2	2577.4	2752.9	2948.1
32.5°	1586.5	1675.8	1763.8	1866.3	1982.1	2113.3	2255.5	2412.7	2607.6	2807.0	3008.0
35°	1503.6	1578.3	1668.9	1778.3	1908.9	2059.3	2223.9	2409.6	2633.2	2862.3	3031.5
37.5°	1405.1	1474.8	1570.1	1690.1	1827.1	1988.5	2183.7	2404.2	2641.6	2824.2	2878.8
40°	1339.1	1403.6	1502.8	1627.2	1767.3	1938.1	2152.2	2385.3	2615.1	2731.6	2686.7
42.5°	1268.5	1336.3	1432.9	1556.0	1706.9	1892.8	2112.5	2345.6	2538.3	2582.3	2427.3
45°	1157.2	1227.3	1322.5	1446.9	1609.0	1810.6	2039.6	2251.4	2362.4	2282.9	2042.9
47.5°	1053.8	1119.4	1207.7	1336.1	1503.4	1711.8	1932.5	2101.4	2110.2	1920.5	1664.1
50°	983.2	1043.8	1132.8	1261.1	1427.2	1638.2	1837.3	1970.3	1910.6	1695.7	1449.3
52.5°	913.9	973.3	1061.0	1188.1	1352.3	1545.6	1730.9	1824.3	1711.5	1491.0	1280.5
55°	814.0	866.0	951.7	1069.0	1224.9	1404.4	1561.9	1594.1	1447.6	1230.4	1059.6
57.5°	716.4	764.9	842.9	951.0	1093.5	1252.4	1375.5	1368.7	1213.9	1027.4	891.9
60°	650.3	697.5	766.8	872.2	1002.1	1139.1	1244.6	1219.4	1065.9	905.3	791.1
62.5°	591.1	633.2	698.7	791.0	909.6	1036.4	1123.1	1085.9	935.5	795.1	704.9
65°	503.8	539.3	595.1	673.9	772.2	877.0	943.8	895.9	767.5	658.1	585.7
67.5°	420.5	448.9	495.7	558.6	642.5	726.6	767.4	719.0	616.4	536.5	482.9
70°	367.6	392.8	429.0	484.9	558.2	628.9	659.6	616.4	528.3	459.7	421.1
72.5°	314.8	335.5	367.3	417.6	476.3	537.7	564.6	523.2	450.8	392.9	356.9
75°	243.3	257.4	279.4	314.1	360.5	409.4	424.3	388.1	341.6	298.3	274.8
77.5°	174.1	186.1	202.8	224.7	257.6	288.6	301.6	280.7	244.8	217.4	198.0
80°	133.8	140.2	154.3	172.4	198.3	218.0	226.7	213.4	188.1	167.6	152.7
82.5°	95.4	101.7	110.2	125.1	141.7	155.1	164.4	155.4	137.1	121.1	112.4
85°	46.5	50.4	55.1	61.4	74.0	81.9	81.1	75.5	68.5	62.2	57.5
87.5°	17.3	18.4	20.8	24.5	26.9	29.9	31.6	30.8	28.8	27.3	25.8
90°	4.2	7.0	9.7	12.3	14.8	17.3	19.6	22.0	24.3	26.1	27.8
92.5°	38.8	40.7	42.5	44.4	46.9	49.8	52.6	55.5	58.5	60.7	62.9
95°	99.7	100.4	101.0	101.7	103.7	107.1	110.5	113.9	117.2	119.7	122.0
97.5°	164.7	165.0	165.3	165.6	168.0	172.7	177.4	182.1	186.7	188.9	191.2
100°	213.2	213.2	213.2	213.2	215.4	219.8	224.2	228.6	233.0	236.1	239.1
102.5°	267.0	268.3	269.6	271.0	272.9	275.1	277.3	279.5	281.8	285.1	288.4
105°	348.9	350.6	352.3	354.1	355.9	357.9	359.9	361.9	364.1	366.1	368.1
107.5°	439.1	440.8	442.5	444.1	445.9	447.4	448.9	450.5	452.0	453.0	454.0
110°	501.3	502.9	504.6	506.3	507.7	508.7	509.7	510.7	511.7	512.7	513.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.8	564.7	565.5	566.4	567.5	568.8	570.1	571.4	572.7	573.1	573.6
115°	657.8	659.1	660.5	661.9	662.9	663.6	664.2	664.9	665.6	665.2	664.9
117.5°	750.8	751.4	752.0	752.7	753.3	753.9	754.5	755.1	755.8	756.0	756.3
120°	810.4	812.1	813.9	815.5	816.5	816.9	817.2	817.5	817.9	817.9	817.9
122.5°	872.7	873.3	873.9	874.5	875.3	876.2	877.1	877.9	878.8	878.5	878.3
125°	960.0	962.1	964.1	966.1	967.3	967.7	968.0	968.4	968.7	968.0	967.3
127.5°	1050.6	1051.7	1052.8	1054.0	1054.8	1055.2	1055.6	1056.0	1056.4	1056.0	1055.7
130°	1105.9	1107.6	1109.2	1111.0	1112.2	1112.9	1113.5	1114.2	1114.9	1114.5	1114.2
132.5°	1161.8	1164.6	1167.4	1170.1	1171.4	1171.3	1171.1	1171.0	1170.9	1170.5	1170.2
135°	1247.9	1249.9	1251.9	1253.9	1255.2	1255.5	1255.9	1256.2	1256.5	1256.5	1256.5
137.5°	1329.5	1331.4	1333.3	1335.3	1336.7	1337.5	1338.2	1338.9	1339.7	1340.1	1340.5
140°	1381.6	1383.2	1384.9	1386.6	1388.0	1389.0	1390.1	1391.1	1392.1	1392.7	1393.4
142.5°	1433.7	1435.1	1436.5	1437.9	1439.3	1440.6	1441.9	1443.2	1444.4	1444.8	1445.2
145°	1510.7	1512.1	1513.4	1514.8	1515.9	1516.9	1517.9	1518.9	1519.9	1519.9	1519.9
147.5°	1581.3	1582.1	1582.9	1583.6	1584.4	1585.2	1586.0	1586.8	1587.6	1588.4	1589.2
150°	1627.8	1627.5	1627.1	1626.8	1627.3	1628.6	1630.0	1631.3	1632.7	1632.7	1632.7
152.5°	1667.6	1668.1	1668.5	1669.0	1669.5	1670.1	1670.6	1671.1	1671.7	1672.5	1673.3
155°	1727.2	1727.2	1727.2	1727.2	1727.3	1727.7	1728.0	1728.3	1728.7	1730.0	1731.3
157.5°	1780.0	1779.3	1778.5	1777.8	1777.6	1777.9	1778.3	1778.6	1778.9	1780.3	1781.6
160°	1811.4	1810.4	1809.4	1808.4	1808.1	1808.4	1808.7	1809.1	1809.4	1810.7	1812.1
162.5°	1839.7	1839.0	1838.3	1837.4	1837.1	1837.1	1837.2	1837.3	1837.3	1839.1	1840.7
165°	1877.2	1876.5	1875.9	1875.2	1875.0	1875.4	1875.7	1876.0	1876.4	1877.7	1879.1
167.5°	1908.2	1906.9	1905.5	1904.2	1903.5	1903.5	1903.5	1903.5	1903.5	1905.5	1907.5
170°	1925.3	1923.9	1922.6	1921.3	1920.6	1920.6	1920.6	1920.6	1920.6	1922.6	1924.6
172.5°	1937.5	1936.1	1934.8	1933.4	1932.8	1932.8	1932.8	1932.8	1932.8	1934.8	1936.8
175°	1951.2	1949.8	1948.4	1947.1	1946.4	1946.4	1946.4	1946.4	1946.4	1948.4	1950.6
177.5°	1958.4	1957.4	1956.3	1955.2	1954.5	1954.3	1954.0	1953.7	1953.5	1955.1	1956.7
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7	1854.7
2.5°	1939.6	1944.7	1955.4	1951.7	1956.7	1959.2	1961.8
5°	2096.4	2121.5	2132.5	2131.0	2147.5	2143.5	2139.6
7.5°	2273.3	2299.8	2314.6	2333.0	2343.7	2344.5	2353.8
10°	2373.5	2408.1	2422.3	2442.0	2454.6	2461.6	2460.8
12.5°	2450.2	2477.4	2509.1	2518.8	2535.8	2544.8	2541.4
15°	2542.7	2586.0	2619.1	2635.5	2656.9	2663.1	2671.8
17.5°	2625.2	2683.3	2721.9	2773.2	2792.6	2804.4	2797.4
20°	2687.6	2763.9	2802.5	2863.9	2897.7	2915.9	2909.5
22.5°	2761.3	2843.9	2915.2	2968.4	3019.9	3044.3	3049.4
25°	2887.5	3000.8	3105.5	3175.6	3239.3	3254.3	3287.4
27.5°	3028.6	3162.2	3274.2	3347.9	3392.2	3408.9	3419.3
30°	3117.4	3250.4	3334.7	3381.8	3396.1	3394.5	3392.8
32.5°	3160.8	3244.1	3260.3	3247.1	3214.7	3187.2	3158.7
35°	3099.3	3037.1	2944.2	2824.5	2736.3	2647.4	2638.8
37.5°	2787.3	2588.5	2433.9	2261.2	2161.5	2100.0	2057.5
40°	2493.9	2268.0	2080.6	1935.0	1833.4	1793.3	1753.9
42.5°	2175.2	1959.3	1793.4	1671.7	1595.4	1550.8	1519.6
45°	1767.3	1576.8	1446.9	1358.8	1298.1	1263.4	1243.7
47.5°	1448.1	1307.3	1196.9	1133.3	1091.4	1064.5	1064.6
50°	1276.9	1142.3	1069.0	1018.7	982.4	961.2	965.1
52.5°	1125.1	1024.5	962.0	919.8	893.0	879.9	879.5
55°	940.7	868.3	827.4	796.7	778.5	763.6	766.8
57.5°	804.7	743.6	716.2	690.7	678.1	672.2	663.5
60°	720.3	673.1	649.4	628.9	616.4	611.7	603.0
62.5°	645.4	608.2	585.2	568.6	557.1	555.6	548.9
65°	542.4	514.0	493.6	485.7	473.9	470.8	470.8
67.5°	447.2	426.9	410.9	403.6	398.5	399.3	395.5
70°	387.3	370.8	360.5	352.6	348.7	349.5	346.4
72.5°	338.8	320.4	311.4	306.7	301.5	303.6	302.3
75°	256.6	247.2	242.5	237.7	234.6	233.0	231.5
77.5°	188.4	180.2	176.5	173.8	174.3	170.5	173.5
80°	145.6	138.6	136.2	132.3	131.5	131.5	130.7
82.5°	106.5	102.6	100.9	97.7	96.2	97.5	95.4
85°	55.1	51.9	51.2	51.2	49.6	48.1	51.9
87.5°	26.1	23.8	24.1	23.7	23.9	23.5	22.4
90°	29.5	31.1	32.5	33.5	34.5	35.5	36.6
92.5°	65.1	67.5	68.9	69.7	70.4	71.1	71.9
95°	124.4	126.7	128.3	129.0	129.7	130.3	131.0
97.5°	193.4	195.6	197.0	197.4	197.8	198.2	198.6
100°	242.2	245.2	247.1	247.7	248.4	249.1	249.7
102.5°	291.8	295.0	297.2	298.1	299.0	300.0	300.9
105°	370.1	372.1	373.7	374.7	375.7	376.7	377.7
107.5°	455.0	456.1	456.6	456.5	456.5	456.4	456.3
110°	514.8	515.8	516.1	515.8	515.4	515.1	514.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	574.1	574.5	574.5	573.9	573.3	572.7	572.1
115°	664.6	664.2	663.9	663.6	663.2	662.9	662.6
117.5°	756.6	756.8	756.3	754.9	753.6	752.2	750.8
120°	817.9	817.9	817.2	815.9	814.5	813.1	811.8
122.5°	878.0	877.7	877.1	876.0	874.8	873.7	872.7
125°	966.6	965.9	965.4	965.1	964.7	964.4	964.1
127.5°	1055.4	1055.0	1054.5	1053.8	1053.2	1052.5	1051.8
130°	1113.9	1113.5	1113.0	1112.4	1111.7	1111.0	1110.3
132.5°	1169.9	1169.5	1168.9	1168.0	1167.0	1166.1	1165.1
135°	1256.5	1256.5	1255.9	1254.5	1253.1	1251.7	1250.4
137.5°	1340.9	1341.3	1340.7	1339.0	1337.3	1335.5	1333.8
140°	1394.1	1394.7	1394.2	1392.6	1390.9	1389.2	1387.5
142.5°	1445.6	1446.1	1445.4	1443.7	1442.1	1440.4	1438.7
145°	1519.9	1519.9	1519.4	1518.4	1517.4	1516.4	1515.4
147.5°	1590.0	1590.8	1590.1	1587.8	1585.5	1583.3	1580.9
150°	1632.7	1632.7	1632.3	1631.6	1631.0	1630.3	1629.6
152.5°	1674.2	1675.0	1674.8	1673.5	1672.3	1671.1	1669.9
155°	1732.7	1734.0	1733.9	1732.2	1730.5	1728.8	1727.2
157.5°	1783.0	1784.3	1783.9	1781.6	1779.4	1777.2	1774.9
160°	1813.4	1814.8	1814.6	1812.9	1811.2	1809.6	1807.9
162.5°	1842.3	1843.9	1843.7	1841.8	1839.8	1837.9	1835.8
165°	1880.5	1881.8	1881.5	1879.5	1877.4	1875.4	1873.3
167.5°	1909.6	1911.6	1911.6	1909.5	1907.4	1905.3	1903.2
170°	1926.6	1928.6	1928.5	1926.1	1923.8	1921.4	1919.0
172.5°	1938.8	1940.9	1940.9	1938.7	1936.6	1934.5	1932.5
175°	1952.6	1954.6	1954.4	1952.1	1949.6	1947.3	1944.9
177.5°	1958.3	1959.9	1959.8	1957.9	1956.0	1954.1	1952.3
180°	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1	1957.1

(END OF REPORT)