

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: P332199-840

Luminaire Tested: **S123DIW-S1000D1320U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332199-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S1000D1320U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8905.5 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

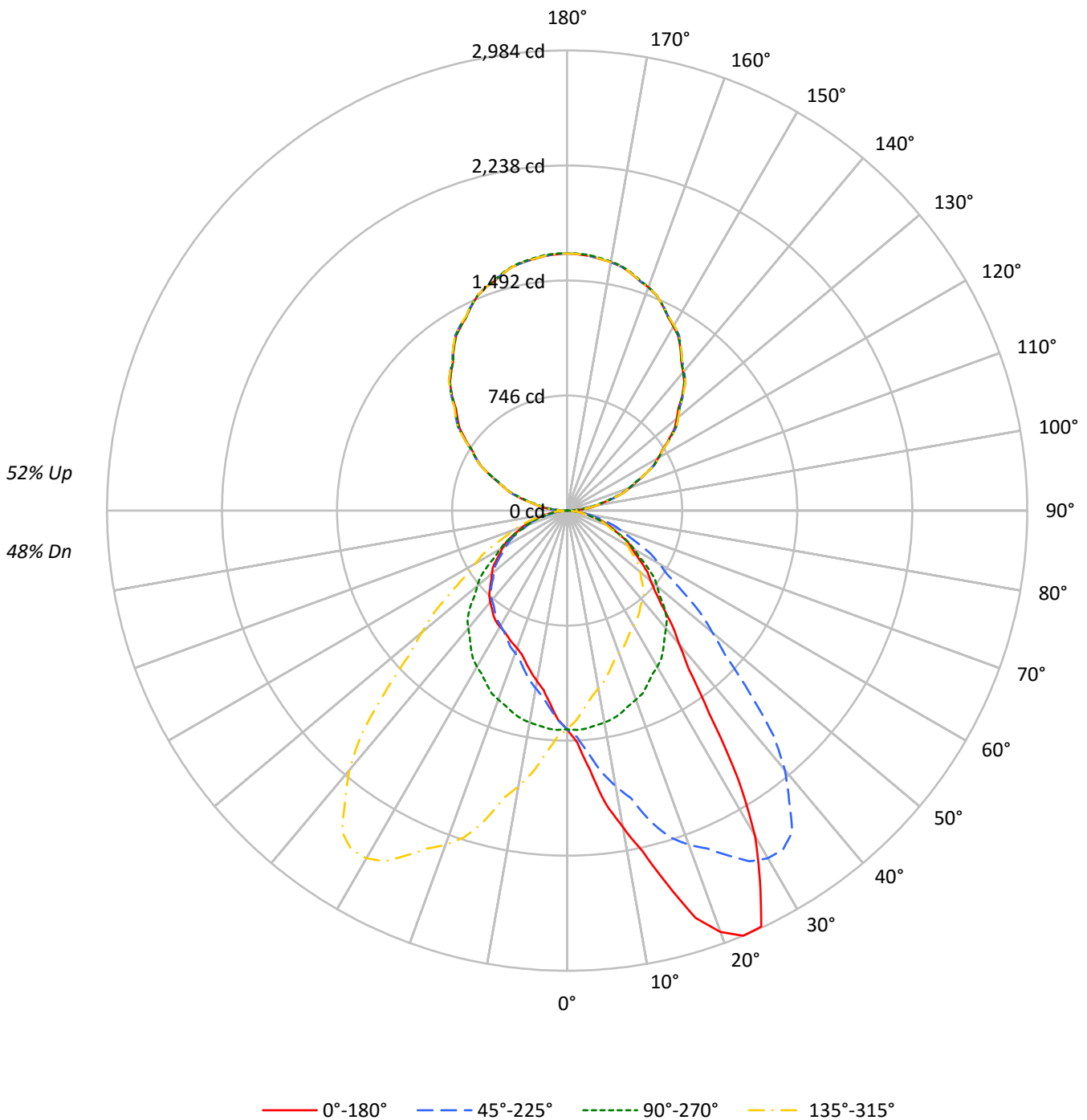
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	41	45	40	35	38	34	31	31	28	26	22
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	28	24	21	24	20	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°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.6
10°-20°	448.0	5.0
20°-30°	751.9	8.4
30°-40°	851.4	9.6
40°-50°	763.5	8.6
50°-60°	616.1	6.9
60°-70°	429.4	4.8
70°-80°	225.7	2.5
80°-90°	60.1	0.7
90°-100°	108.6	1.2
100°-110°	325.1	3.7
110°-120°	553.0	6.2
120°-130°	727.3	8.2
130°-140°	817.5	9.2
140°-150°	803.6	9.0
150°-160°	676.5	7.6
160°-170°	450.3	5.1
170°-180°	157.7	1.8
0°-30°	1339.7	15.0
0°-40°	2191.1	24.6
0°-60°	3570.7	40.1
0°-90°	4285.9	48.1
90°-120°	986.7	11.1
90°-150°	3335.1	37.4
90°-180°	4620.0	51.9
0°-180°	8905.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	55
90°	39	1	39	1	39	21
95°	102	77	102	77	102	105
105°	312	295	312	295	312	331
115°	558	557	558	557	558	552
125°	806	815	806	815	806	720
135°	1056	1057	1056	1057	1056	812
145°	1282	1282	1282	1282	1282	800
155°	1466	1468	1466	1468	1466	675
165°	1594	1599	1594	1599	1594	450
175°	1657	1663	1657	1663	1657	157
180°	1667	1667	1667	1667	1667	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	24.3	23.1	23.5	24.0	23.3	23.7	24.0	24.3	24.6	24.9	24.7
90°	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7	32.6	31.4	27.7
92.5°	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1	51.2	50.3	48.2
95°	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3	98.1	96.9	94.6
97.5°	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3	153.0	151.7	150.0
100°	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3	193.4	192.6	191.1
102.5°	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3	239.5	238.6	236.7
105°	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1	309.1	309.1	306.5
107.5°	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5	382.6	381.6	380.6
110°	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2	432.1	430.9	430.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9	481.6	480.2	480.1
115°	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6	558.3	558.0	558.6
117.5°	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9	634.9	635.0	635.7
120°	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7	686.0	686.3	687.8
122.5°	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2	737.9	738.7	739.4
125°	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6	814.9	816.0	816.6
127.5°	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2	890.8	892.5	893.1
130°	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4	940.6	941.7	942.6
132.5°	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2	989.6	991.0	991.6
135°	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2	1062.4	1063.5	1063.8
137.5°	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6	1133.8	1135.1	1134.3
140°	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8
142.5°	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6	1223.9	1224.2	1223.6
145°	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2	1288.5	1288.8	1288.0
147.5°	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0	1387.0	1387.0	1386.4
152.5°	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5	1421.1	1420.6	1420.3
155°	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9	1470.8	1469.6	1469.3
157.5°	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2	1514.0	1512.8	1512.6
160°	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9	1540.4	1538.9	1538.9
162.5°	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0	1565.6	1564.1	1563.9
165°	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8	1597.0	1595.3	1595.3
167.5°	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9	1620.7
170°	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6	1634.6
172.5°	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7	1647.9	1646.1	1646.1
175°	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6	1659.9	1658.2	1658.2
177.5°	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0	1665.6	1664.2	1664.2
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	25.1	24.9	22.5	19.6	18.0	15.8	15.1	13.4	12.9	13.5	13.5
90°	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3	4.2	7.2	10.0
92.5°	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7	33.6	35.6	37.7
95°	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3	79.3	81.4	83.4
97.5°	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2	138.8	140.3	141.8
100°	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1	179.9	181.6	183.4
102.5°	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3	226.3	227.4	228.4
105°	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7	295.3	295.9	296.4
107.5°	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4	375.8	376.1	376.5
110°	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7	426.3	426.9	427.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1	478.4	478.8	479.1
115°	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6	557.5	558.4	559.3
117.5°	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8	636.3	636.9	637.5
120°	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0	686.7	688.5	690.2
122.5°	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4	737.6	738.9	740.2
125°	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7	815.6	816.4	817.3
127.5°	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0	888.9	890.7	892.5
130°	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1	937.5	939.9	942.2
132.5°	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4	985.7	988.1	990.4
135°	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0	1058.7	1060.5	1062.2
137.5°	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1	1126.5	1128.0	1129.4
140°	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3	1173.7	1175.2	1176.6
142.5°	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2	1216.7	1218.1	1219.6
145°	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2	1282.8	1283.4	1284.0
147.5°	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9	1342.0	1343.0	1344.1
150°	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8	1382.4	1383.0	1383.5
152.5°	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3	1416.1	1416.9	1417.7
155°	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3	1513.0	1512.6	1512.3
160°	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6	1541.1	1540.4	1539.8
162.5°	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7	1565.9	1565.1	1564.3
165°	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2	1598.3	1597.5	1596.6
167.5°	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2	1624.0	1622.9	1621.6
170°	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8	1638.7	1637.5	1636.4
172.5°	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3	1650.2	1649.0	1647.9
175°	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4	1662.2	1661.1	1659.9
177.5°	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4	1667.5	1666.5	1665.6
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.6	14.8	15.0	16.4	16.6	17.9	18.1	17.2	17.5	19.3	17.3
90°	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7	34.9	36.1	37.0
92.5°	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1	53.1	54.0	54.3
95°	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3	100.4	101.6	102.2
97.5°	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3	155.7	157.0	157.6
100°	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3	195.1	196.0	196.7
102.5°	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3	241.3	242.2	242.5
105°	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1	309.1	309.1	309.4
107.5°	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5	384.5	385.4	385.7
110°	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2	434.4	435.6	435.9



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9	484.3	485.7	486.4
115°	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6	558.9	559.2	559.2
117.5°	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9	634.8	634.7	634.3
120°	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7	685.5	685.2	684.7
122.5°	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2	736.4	735.7	734.9
125°	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6	812.5	811.3	810.2
127.5°	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2	887.6	886.0	884.4
130°	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4	938.3	937.1	935.4
132.5°	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2	986.7	985.4	983.9
135°	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2	1060.1	1058.8	1058.0
137.5°	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6	1131.4	1130.1	1129.0
140°	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1177.8
142.5°	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6	1223.2	1222.9	1222.0
145°	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2	1288.0	1287.7	1287.0
147.5°	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3	1349.3	1349.3	1348.5
150°	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0	1387.0	1387.0	1386.1
152.5°	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5	1422.0	1422.4	1421.9
155°	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9	1473.1	1474.2	1473.8
157.5°	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2	1516.4	1517.7	1517.4
160°	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9	1543.4	1544.8	1545.0
162.5°	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0	1568.5	1569.9	1569.7
165°	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8	1600.5	1602.3	1602.2
167.5°	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2
170°	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7
172.5°	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7	1651.5	1653.4	1653.3
175°	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6	1663.4	1665.2	1665.0
177.5°	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0	1668.4	1669.8	1669.7
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	17.4	17.6	17.1	16.7	17.1	17.6	17.4	17.3	19.3	17.5	17.2
90°	37.6	38.2	38.7	39.3	38.7	38.2	37.6	37.0	36.1	34.9	33.7
92.5°	53.9	53.6	53.2	52.9	53.2	53.6	53.9	54.3	54.0	53.1	52.1
95°	102.2	102.2	102.2	102.2	102.2	102.2	102.2	102.2	101.6	100.4	99.3
97.5°	157.5	157.4	157.3	157.1	157.3	157.4	157.5	157.6	157.0	155.7	154.3
100°	197.3	197.9	198.5	199.0	198.5	197.9	197.3	196.7	196.0	195.1	194.3
102.5°	242.4	242.3	242.2	242.1	242.2	242.3	242.4	242.5	242.2	241.3	240.3
105°	310.0	310.5	311.1	311.7	311.1	310.5	310.0	309.4	309.1	309.1	309.1
107.5°	385.4	385.0	384.7	384.3	384.7	385.0	385.4	385.7	385.4	384.5	383.5
110°	435.3	434.7	434.1	433.5	434.1	434.7	435.3	435.9	435.6	434.4	433.2



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	486.3	486.1	486.0	485.9	486.0	486.1	486.3	486.4	485.7	484.3	482.9
115°	558.9	558.6	558.3	558.0	558.3	558.6	558.9	559.2	559.2	558.9	558.6
117.5°	633.5	632.7	631.9	631.1	631.9	632.7	633.5	634.3	634.7	634.8	634.9
120°	684.2	683.6	683.0	682.4	683.0	683.6	684.2	684.7	685.2	685.5	685.7
122.5°	734.1	733.3	732.5	731.6	732.5	733.3	734.1	734.9	735.7	736.4	737.2
125°	809.0	807.8	806.7	805.5	806.7	807.8	809.0	810.2	811.3	812.5	813.6
127.5°	883.1	881.8	880.5	879.1	880.5	881.8	883.1	884.4	886.0	887.6	889.2
130°	933.4	931.4	929.4	927.4	929.4	931.4	933.4	935.4	937.1	938.3	939.4
132.5°	982.3	980.8	979.2	977.7	979.2	980.8	982.3	983.9	985.4	986.7	988.2
135°	1057.4	1056.8	1056.2	1055.7	1056.2	1056.8	1057.4	1058.0	1058.8	1060.1	1061.2
137.5°	1127.9	1126.8	1125.7	1124.6	1125.7	1126.8	1127.9	1129.0	1130.1	1131.4	1132.6
140°	1175.8	1173.7	1171.6	1169.6	1171.6	1173.7	1175.8	1177.8	1178.9	1179.2	1179.5
142.5°	1220.4	1218.9	1217.3	1215.8	1217.3	1218.9	1220.4	1222.0	1222.9	1223.2	1223.6
145°	1285.8	1284.5	1283.4	1282.2	1283.4	1284.5	1285.8	1287.0	1287.7	1288.0	1288.2
147.5°	1346.8	1344.9	1343.2	1341.5	1343.2	1344.9	1346.8	1348.5	1349.3	1349.3	1349.3
150°	1384.4	1382.7	1380.9	1379.2	1380.9	1382.7	1384.4	1386.1	1387.0	1387.0	1387.0
152.5°	1420.4	1418.9	1417.3	1415.8	1417.3	1418.9	1420.4	1421.9	1422.4	1422.0	1421.5
155°	1471.8	1469.8	1467.6	1465.6	1467.6	1469.8	1471.8	1473.8	1474.2	1473.1	1471.9
157.5°	1515.8	1514.2	1512.6	1511.0	1512.6	1514.2	1515.8	1517.4	1517.7	1516.4	1515.2
160°	1543.8	1542.7	1541.5	1540.2	1541.5	1542.7	1543.8	1545.0	1544.8	1543.4	1541.9
162.5°	1567.9	1566.0	1564.2	1562.3	1564.2	1566.0	1567.9	1569.7	1569.9	1568.5	1567.0
165°	1600.1	1598.1	1596.0	1594.0	1596.0	1598.1	1600.1	1602.2	1602.3	1600.5	1598.8
167.5°	1626.4	1624.6	1622.8	1620.9	1622.8	1624.6	1626.4	1628.2	1628.2	1626.4	1624.6
170°	1640.7	1638.7	1636.6	1634.6	1636.6	1638.7	1640.7	1642.7	1642.7	1640.7	1638.7
172.5°	1651.2	1649.1	1647.1	1645.1	1647.1	1649.1	1651.2	1653.3	1653.4	1651.5	1649.7
175°	1662.9	1660.9	1658.9	1656.9	1658.9	1660.9	1662.9	1665.0	1665.2	1663.4	1661.6
177.5°	1668.0	1666.4	1664.8	1663.1	1664.8	1666.4	1668.0	1669.7	1669.8	1668.4	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	18.1	17.9	16.6	16.4	15.0	14.8	13.6	13.5	13.5	12.9	13.4
90°	32.6	31.4	27.7	23.8	20.1	16.3	12.9	10.0	7.2	4.2	1.3
92.5°	51.2	50.3	48.2	45.9	43.8	41.7	39.6	37.7	35.6	33.6	31.7
95°	98.1	96.9	94.6	92.3	90.0	87.7	85.4	83.4	81.4	79.3	77.3
97.5°	153.0	151.7	150.0	148.2	146.6	144.9	143.3	141.8	140.3	138.8	137.2
100°	193.4	192.6	191.1	189.7	188.1	186.7	185.1	183.4	181.6	179.9	178.1
102.5°	239.5	238.6	236.7	234.8	232.9	231.0	229.4	228.4	227.4	226.3	225.3
105°	309.1	309.1	306.5	303.9	301.2	298.6	297.0	296.4	295.9	295.3	294.7
107.5°	382.6	381.6	380.6	379.6	378.5	377.5	376.8	376.5	376.1	375.8	375.4
110°	432.1	430.9	430.3	429.8	429.2	428.6	428.0	427.4	426.9	426.3	425.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	481.6	480.2	480.1	479.9	479.8	479.7	479.5	479.1	478.8	478.4	478.1
115°	558.3	558.0	558.6	559.2	559.7	560.3	560.2	559.3	558.4	557.5	556.6
117.5°	634.9	635.0	635.7	636.5	637.2	638.0	638.1	637.5	636.9	636.3	635.8
120°	686.0	686.3	687.8	689.2	690.6	692.2	692.0	690.2	688.5	686.7	685.0
122.5°	737.9	738.7	739.4	740.2	740.9	741.7	741.4	740.2	738.9	737.6	736.4
125°	814.9	816.0	816.6	817.2	817.7	818.3	818.2	817.3	816.4	815.6	814.7
127.5°	890.8	892.5	893.1	893.7	894.4	895.0	894.4	892.5	890.7	888.9	887.0
130°	940.6	941.7	942.6	943.5	944.3	945.2	944.5	942.2	939.9	937.5	935.1
132.5°	989.6	991.0	991.6	992.3	992.9	993.5	992.7	990.4	988.1	985.7	983.4
135°	1062.4	1063.5	1063.8	1064.1	1064.4	1064.7	1064.0	1062.2	1060.5	1058.7	1057.0
137.5°	1133.8	1135.1	1134.3	1133.6	1132.8	1132.1	1130.9	1129.4	1128.0	1126.5	1125.1
140°	1179.8	1180.1	1179.8	1179.5	1179.2	1178.9	1178.1	1176.6	1175.2	1173.7	1172.3
142.5°	1223.9	1224.2	1223.6	1223.0	1222.5	1222.0	1221.0	1219.6	1218.1	1216.7	1215.2
145°	1288.5	1288.8	1288.0	1287.1	1286.2	1285.4	1284.5	1284.0	1283.4	1282.8	1282.2
147.5°	1349.3	1349.3	1348.5	1347.7	1346.9	1346.0	1345.1	1344.1	1343.0	1342.0	1340.9
150°	1387.0	1387.0	1386.4	1385.8	1385.3	1384.7	1384.1	1383.5	1383.0	1382.4	1381.8
152.5°	1421.1	1420.6	1420.3	1419.9	1419.6	1419.2	1418.6	1417.7	1416.9	1416.1	1415.3
155°	1470.8	1469.6	1469.3	1468.9	1468.6	1468.4	1468.2	1468.2	1468.2	1468.2	1468.2
157.5°	1514.0	1512.8	1512.6	1512.3	1512.1	1511.9	1511.9	1512.3	1512.6	1513.0	1513.3
160°	1540.4	1538.9	1538.9	1538.9	1538.9	1538.9	1539.2	1539.8	1540.4	1541.1	1541.6
162.5°	1565.6	1564.1	1563.9	1563.7	1563.5	1563.2	1563.5	1564.3	1565.1	1565.9	1566.7
165°	1597.0	1595.3	1595.3	1595.3	1595.3	1595.3	1595.8	1596.6	1597.5	1598.3	1599.2
167.5°	1622.8	1620.9	1620.7	1620.5	1620.2	1620.0	1620.5	1621.6	1622.9	1624.0	1625.2
170°	1636.6	1634.6	1634.6	1634.6	1634.6	1634.6	1635.2	1636.4	1637.5	1638.7	1639.8
172.5°	1647.9	1646.1	1646.1	1646.1	1646.1	1646.1	1646.7	1647.9	1649.0	1650.2	1651.3
175°	1659.9	1658.2	1658.2	1658.2	1658.2	1658.2	1658.7	1659.9	1661.1	1662.2	1663.4
177.5°	1665.6	1664.2	1664.2	1664.2	1664.2	1664.2	1664.7	1665.6	1666.5	1667.5	1668.4
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	15.1	15.8	18.0	19.6	22.5	24.9	25.1	24.7	24.9	24.6	24.3
90°	4.2	7.2	10.0	12.9	16.3	20.1	23.8	27.7	31.4	32.6	33.7
92.5°	33.6	35.6	37.7	39.6	41.7	43.8	45.9	48.2	50.3	51.2	52.1
95°	79.3	81.4	83.4	85.4	87.7	90.0	92.3	94.6	96.9	98.1	99.3
97.5°	138.8	140.3	141.8	143.3	144.9	146.6	148.2	150.0	151.7	153.0	154.3
100°	179.9	181.6	183.4	185.1	186.7	188.1	189.7	191.1	192.6	193.4	194.3
102.5°	226.3	227.4	228.4	229.4	231.0	232.9	234.8	236.7	238.6	239.5	240.3
105°	295.3	295.9	296.4	297.0	298.6	301.2	303.9	306.5	309.1	309.1	309.1
107.5°	375.8	376.1	376.5	376.8	377.5	378.5	379.6	380.6	381.6	382.6	383.5
110°	426.3	426.9	427.4	428.0	428.6	429.2	429.8	430.3	430.9	432.1	433.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	478.4	478.8	479.1	479.5	479.7	479.8	479.9	480.1	480.2	481.6	482.9
115°	557.5	558.4	559.3	560.2	560.3	559.7	559.2	558.6	558.0	558.3	558.6
117.5°	636.3	636.9	637.5	638.1	638.0	637.2	636.5	635.7	635.0	634.9	634.9
120°	686.7	688.5	690.2	692.0	692.2	690.6	689.2	687.8	686.3	686.0	685.7
122.5°	737.6	738.9	740.2	741.4	741.7	740.9	740.2	739.4	738.7	737.9	737.2
125°	815.6	816.4	817.3	818.2	818.3	817.7	817.2	816.6	816.0	814.9	813.6
127.5°	888.9	890.7	892.5	894.4	895.0	894.4	893.7	893.1	892.5	890.8	889.2
130°	937.5	939.9	942.2	944.5	945.2	944.3	943.5	942.6	941.7	940.6	939.4
132.5°	985.7	988.1	990.4	992.7	993.5	992.9	992.3	991.6	991.0	989.6	988.2
135°	1058.7	1060.5	1062.2	1064.0	1064.7	1064.4	1064.1	1063.8	1063.5	1062.4	1061.2
137.5°	1126.5	1128.0	1129.4	1130.9	1132.1	1132.8	1133.6	1134.3	1135.1	1133.8	1132.6
140°	1173.7	1175.2	1176.6	1178.1	1178.9	1179.2	1179.5	1179.8	1180.1	1179.8	1179.5
142.5°	1216.7	1218.1	1219.6	1221.0	1222.0	1222.5	1223.0	1223.6	1224.2	1223.9	1223.6
145°	1282.8	1283.4	1284.0	1284.5	1285.4	1286.2	1287.1	1288.0	1288.8	1288.5	1288.2
147.5°	1342.0	1343.0	1344.1	1345.1	1346.0	1346.9	1347.7	1348.5	1349.3	1349.3	1349.3
150°	1382.4	1383.0	1383.5	1384.1	1384.7	1385.3	1385.8	1386.4	1387.0	1387.0	1387.0
152.5°	1416.1	1416.9	1417.7	1418.6	1419.2	1419.6	1419.9	1420.3	1420.6	1421.1	1421.5
155°	1468.2	1468.2	1468.2	1468.2	1468.4	1468.6	1468.9	1469.3	1469.6	1470.8	1471.9
157.5°	1513.0	1512.6	1512.3	1511.9	1511.9	1512.1	1512.3	1512.6	1512.8	1514.0	1515.2
160°	1541.1	1540.4	1539.8	1539.2	1538.9	1538.9	1538.9	1538.9	1538.9	1540.4	1541.9
162.5°	1565.9	1565.1	1564.3	1563.5	1563.2	1563.5	1563.7	1563.9	1564.1	1565.6	1567.0
165°	1598.3	1597.5	1596.6	1595.8	1595.3	1595.3	1595.3	1595.3	1595.3	1597.0	1598.8
167.5°	1624.0	1622.9	1621.6	1620.5	1620.0	1620.2	1620.5	1620.7	1620.9	1622.8	1624.6
170°	1638.7	1637.5	1636.4	1635.2	1634.6	1634.6	1634.6	1634.6	1634.6	1636.6	1638.7
172.5°	1650.2	1649.0	1647.9	1646.7	1646.1	1646.1	1646.1	1646.1	1646.1	1647.9	1649.7
175°	1662.2	1661.1	1659.9	1658.7	1658.2	1658.2	1658.2	1658.2	1658.2	1659.9	1661.6
177.5°	1667.5	1666.5	1665.6	1664.7	1664.2	1664.2	1664.2	1664.2	1664.2	1665.6	1667.0
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	24.0	23.7	23.3	24.0	23.5	23.1	24.3
90°	34.9	36.1	37.0	37.6	38.2	38.7	39.3
92.5°	53.1	54.0	54.3	53.9	53.6	53.2	52.9
95°	100.4	101.6	102.2	102.2	102.2	102.2	102.2
97.5°	155.7	157.0	157.6	157.5	157.4	157.3	157.1
100°	195.1	196.0	196.7	197.3	197.9	198.5	199.0
102.5°	241.3	242.2	242.5	242.4	242.3	242.2	242.1
105°	309.1	309.1	309.4	310.0	310.5	311.1	311.7
107.5°	384.5	385.4	385.7	385.4	385.0	384.7	384.3
110°	434.4	435.6	435.9	435.3	434.7	434.1	433.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	484.3	485.7	486.4	486.3	486.1	486.0	485.9
115°	558.9	559.2	559.2	558.9	558.6	558.3	558.0
117.5°	634.8	634.7	634.3	633.5	632.7	631.9	631.1
120°	685.5	685.2	684.7	684.2	683.6	683.0	682.4
122.5°	736.4	735.7	734.9	734.1	733.3	732.5	731.6
125°	812.5	811.3	810.2	809.0	807.8	806.7	805.5
127.5°	887.6	886.0	884.4	883.1	881.8	880.5	879.1
130°	938.3	937.1	935.4	933.4	931.4	929.4	927.4
132.5°	986.7	985.4	983.9	982.3	980.8	979.2	977.7
135°	1060.1	1058.8	1058.0	1057.4	1056.8	1056.2	1055.7
137.5°	1131.4	1130.1	1129.0	1127.9	1126.8	1125.7	1124.6
140°	1179.2	1178.9	1177.8	1175.8	1173.7	1171.6	1169.6
142.5°	1223.2	1222.9	1222.0	1220.4	1218.9	1217.3	1215.8
145°	1288.0	1287.7	1287.0	1285.8	1284.5	1283.4	1282.2
147.5°	1349.3	1349.3	1348.5	1346.8	1344.9	1343.2	1341.5
150°	1387.0	1387.0	1386.1	1384.4	1382.7	1380.9	1379.2
152.5°	1422.0	1422.4	1421.9	1420.4	1418.9	1417.3	1415.8
155°	1473.1	1474.2	1473.8	1471.8	1469.8	1467.6	1465.6
157.5°	1516.4	1517.7	1517.4	1515.8	1514.2	1512.6	1511.0
160°	1543.4	1544.8	1545.0	1543.8	1542.7	1541.5	1540.2
162.5°	1568.5	1569.9	1569.7	1567.9	1566.0	1564.2	1562.3
165°	1600.5	1602.3	1602.2	1600.1	1598.1	1596.0	1594.0
167.5°	1626.4	1628.2	1628.2	1626.4	1624.6	1622.8	1620.9
170°	1640.7	1642.7	1642.7	1640.7	1638.7	1636.6	1634.6
172.5°	1651.5	1653.4	1653.3	1651.2	1649.1	1647.1	1645.1
175°	1663.4	1665.2	1665.0	1662.9	1660.9	1658.9	1656.9
177.5°	1668.4	1669.8	1669.7	1668.0	1666.4	1664.8	1663.1
180°	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4	1667.4

(END OF REPORT)