

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: P332463-935

Luminaire Tested: **S123RDIW-S1000D1320U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332463-935  
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: S123RDIW-S1000D1320U935-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

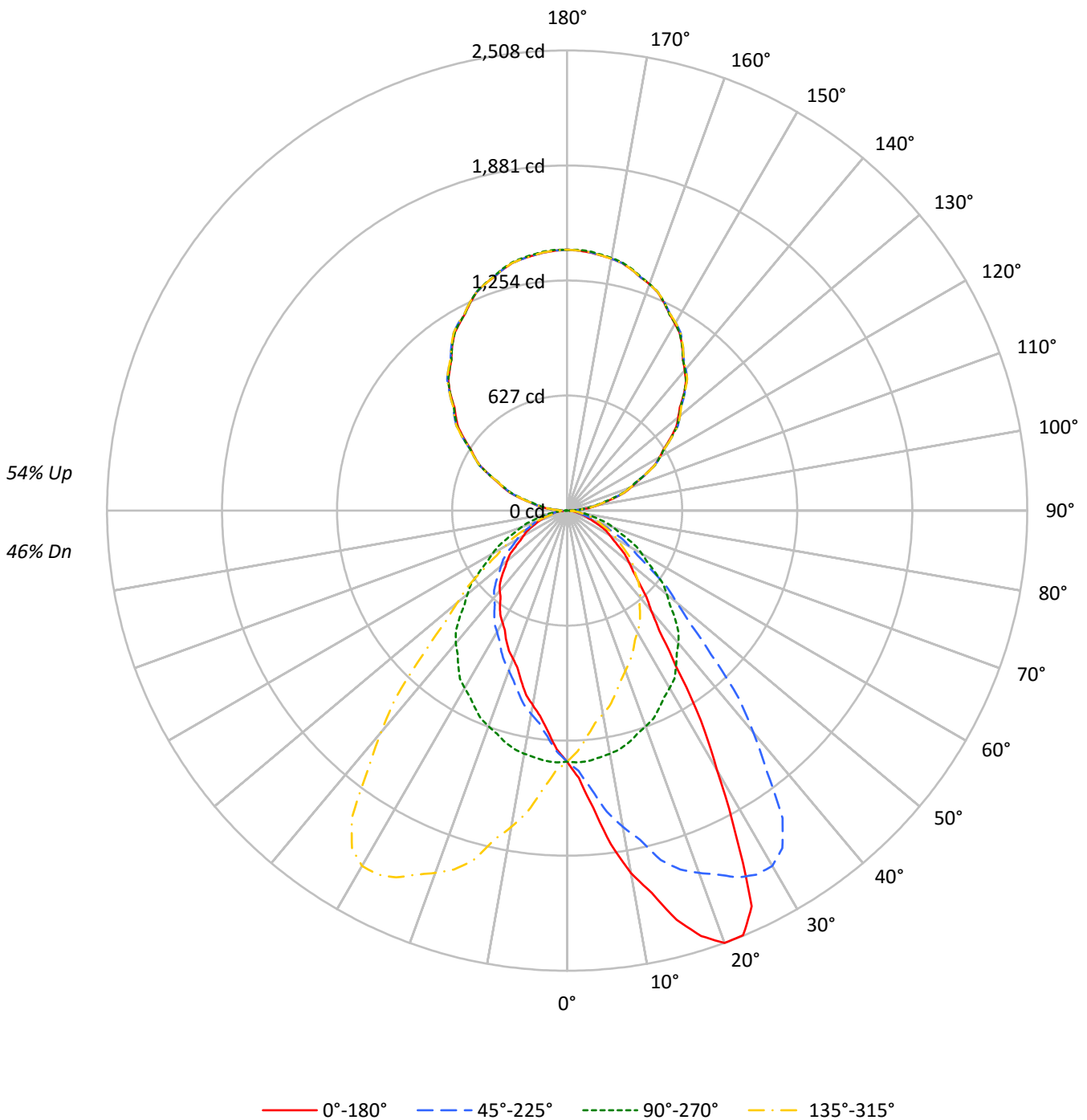
Lumens per Lamp: N/A  
Luminaire Lumens: 7350.8 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 69.8  
Input Voltage (V): 120  
Input Current (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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	29	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

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

	0°	90°	180°	270°
0°	14733	14733	14733	14733
5°	17562	14795	13029	14795
10°	21928	14711	11770	14711
15°	25740	14561	10735	14561
20°	28726	14336	9852	14336
25°	28268	14099	9311	14099
30°	20319	13881	8754	13881
35°	13566	13596	8393	13596
40°	9996	13256	8019	13256
45°	8385	12657	7652	12657
50°	7398	11871	7142	11871
55°	6488	10975	6444	10975
60°	5778	10116	5903	10116
65°	5074	9192	5491	9192
70°	3984	8371	5017	8371
75°	3510	7311	4579	7311
80°	3050	6211	4506	6211
85°	2458	5002	4780	5002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	1.8
10°-20°	420.5	5.7
20°-30°	660.6	9.0
30°-40°	689.3	9.4
40°-50°	589.9	8.0
50°-60°	449.6	6.1
60°-70°	288.2	3.9
70°-80°	138.6	1.9
80°-90°	40.9	0.6
90°-100°	92.6	1.3
100°-110°	277.2	3.8
110°-120°	471.4	6.4
120°-130°	620.1	8.4
130°-140°	697.0	9.5
140°-150°	685.1	9.3
150°-160°	576.8	7.8
160°-170°	383.9	5.2
170°-180°	134.4	1.8
0°-30°	1215.8	16.5
0°-40°	1905.0	25.9
0°-60°	2944.5	40.1
0°-90°	3412.2	46.4
90°-120°	841.3	11.4
90°-150°	2843.5	38.7
90°-180°	3939.0	53.6
0°-180°	7350.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1625	1369	1206	1369	1625	168
15°	2310	1307	963	1307	2310	655
25°	2380	1187	784	1187	2380	1023
35°	1032	1035	639	1035	1032	677
45°	551	832	503	832	551	433
55°	346	585	343	585	346	313
65°	199	361	216	361	199	196
75°	84	176	110	176	84	90
85°	20	40	39	40	20	24
90°	34	1	34	1	34	17
95°	87	66	87	66	87	89
105°	266	251	266	251	266	282
115°	476	475	476	475	476	471
125°	687	695	687	695	687	614
135°	900	901	900	901	900	692
145°	1093	1093	1093	1093	1093	682
155°	1250	1252	1250	1252	1250	575
165°	1359	1364	1359	1364	1359	383
175°	1413	1418	1413	1418	1413	134
180°	1422	1422	1422	1422	1422	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1457.8	1459.7	1453.6	1452.7	1445.6	1443.7	1443.7	1433.9	1427.8	1419.9	1415.1
5°	1625.4	1634.8	1630.0	1619.5	1602.0	1597.8	1586.7	1569.2	1549.2	1524.6	1512.9
7.5°	1834.7	1847.4	1842.5	1826.3	1807.8	1792.9	1761.6	1732.4	1691.5	1655.6	1625.0
10°	2006.2	1992.8	1982.2	1966.4	1949.4	1921.8	1889.0	1843.9	1791.8	1750.8	1705.1
12.5°	2134.7	2132.4	2119.1	2102.8	2078.8	2052.6	2012.3	1957.4	1896.8	1837.5	1785.2
15°	2309.8	2313.2	2304.5	2287.5	2253.5	2207.3	2146.3	2123.5	2036.7	1972.3	1907.8
17.5°	2430.9	2430.3	2429.1	2405.5	2370.8	2337.9	2281.4	2221.3	2142.8	2051.9	1965.1
20°	2507.8	2502.0	2503.1	2476.8	2451.0	2412.9	2357.8	2270.5	2206.1	2101.2	2011.6
22.5°	2505.9	2504.7	2509.2	2500.2	2481.5	2452.3	2408.9	2335.2	2252.9	2147.1	2046.3
25°	2380.1	2375.4	2403.0	2410.5	2440.4	2445.7	2432.8	2392.4	2314.5	2205.5	2080.7
27.5°	1991.9	1989.3	2040.5	2104.5	2185.6	2248.6	2309.5	2339.0	2314.5	2236.4	2111.3
30°	1634.8	1689.9	1715.6	1808.2	1911.3	2034.4	2142.2	2244.7	2269.9	2235.9	2133.4
32.5°	1357.3	1405.3	1426.8	1506.3	1602.4	1746.5	1908.3	2053.5	2156.0	2182.0	2120.3
35°	1032.4	1033.0	1082.2	1117.4	1206.4	1354.7	1511.7	1706.2	1899.6	2046.1	2061.3
37.5°	823.8	826.7	856.5	891.6	958.4	1036.7	1175.0	1336.8	1560.1	1785.0	1916.8
40°	711.4	716.6	738.9	773.4	821.5	880.6	988.5	1140.8	1327.1	1577.4	1781.8
42.5°	639.1	647.7	659.2	685.8	715.6	770.9	858.2	975.9	1145.3	1381.9	1617.8
45°	550.8	555.4	564.3	576.5	603.5	642.2	700.8	779.9	920.5	1110.9	1347.0
47.5°	485.9	483.4	492.7	502.7	520.6	546.9	586.2	650.7	751.1	903.9	1104.1
50°	441.8	441.2	447.6	455.3	472.3	491.6	523.8	572.5	652.1	778.7	962.1
52.5°	400.5	402.8	407.3	416.8	429.1	444.7	473.6	508.7	577.1	686.4	839.3
55°	345.7	347.5	353.9	359.2	368.0	383.7	401.9	431.3	478.1	554.3	680.3
57.5°	299.3	298.5	304.7	306.0	315.9	328.8	342.9	365.7	399.6	456.2	541.1
60°	268.4	266.6	271.9	276.0	281.3	291.8	303.5	325.8	352.8	394.3	467.0
62.5°	240.2	239.4	243.3	247.4	251.8	261.3	271.2	288.3	309.6	344.7	402.3
65°	199.2	201.0	202.8	204.5	206.8	212.7	222.1	233.8	248.4	273.0	314.6
67.5°	156.5	158.3	158.9	162.6	167.6	171.3	176.9	187.4	197.6	218.3	242.0
70°	126.6	126.0	126.6	128.3	134.7	141.2	148.9	156.4	162.9	177.5	197.4
72.5°	108.7	107.7	109.3	109.6	112.7	114.5	119.3	126.5	134.7	144.7	159.0
75°	84.4	84.4	84.4	84.4	86.7	87.9	89.6	91.4	94.4	99.0	109.6
77.5°	62.3	62.4	63.3	63.9	64.3	65.0	66.1	67.8	68.9	71.4	75.9
80°	49.2	49.8	49.2	49.8	49.8	51.0	51.6	53.3	53.9	56.8	58.6
82.5°	37.0	36.7	37.0	37.6	37.6	38.8	38.9	40.2	40.3	41.8	43.6
85°	19.9	18.8	19.9	19.4	20.5	19.4	19.9	21.1	21.1	21.7	24.0
87.5°	11.4	12.2	11.2	11.5	11.5	11.8	11.6	11.4	12.1	11.5	11.3
90°	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8	27.8	26.8	23.6
92.5°	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4	43.7	42.9	41.1
95°	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6	83.6	82.7	80.7
97.5°	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6	130.4	129.3	127.9
100°	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7	164.9	164.2	162.9
102.5°	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9	204.2	203.5	201.8
105°	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6	263.6	263.6	261.3
107.5°	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0	326.2	325.4	324.5
110°	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4	368.4	367.4	366.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7	410.6	409.4	409.3
115°	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2	476.0	475.7	476.2
117.5°	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3	541.3	541.4	542.0
120°	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6	584.9	585.1	586.4
122.5°	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5	629.1	629.8	630.4
125°	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7	694.7	695.7	696.2
127.5°	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1	759.5	761.0	761.5
130°	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9	801.9	802.9	803.7
132.5°	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5	843.7	844.9	845.4
135°	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7	905.8	906.7	907.0
137.5°	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6	966.6	967.8	967.1
140°	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9
142.5°	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2	1043.4	1043.7	1043.2
145°	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3	1098.5	1098.8	1098.1
147.5°	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6	1182.6	1182.6	1182.1
152.5°	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9	1211.6	1211.2	1210.9
155°	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9	1254.0	1252.9	1252.7
157.5°	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8	1290.8	1289.8	1289.6
160°	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6	1313.4	1312.1	1312.1
162.5°	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0	1334.8	1333.5	1333.3
165°	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1	1361.6	1360.1	1360.1
167.5°	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0	1381.8
170°	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6	1393.6
172.5°	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5	1405.0	1403.4	1403.4
175°	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7	1415.2	1413.8	1413.8
177.5°	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3	1420.0	1418.8	1418.8
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1413.2	1411.9	1405.3	1397.8	1387.9	1381.4	1376.2	1373.5	1365.0	1354.7	1347.6
5°	1500.6	1483.0	1464.3	1441.4	1420.3	1398.6	1385.2	1369.3	1350.0	1328.4	1313.1
7.5°	1594.1	1559.6	1522.5	1484.2	1446.3	1412.4	1382.3	1356.7	1325.9	1294.8	1273.0
10°	1665.9	1615.4	1563.3	1509.9	1461.3	1415.7	1380.4	1345.9	1309.0	1273.2	1246.3
12.5°	1731.0	1664.7	1604.6	1539.0	1476.8	1422.2	1371.6	1330.9	1286.5	1248.4	1217.7
15°	1813.4	1745.5	1672.8	1573.2	1490.6	1421.5	1359.9	1306.7	1252.8	1205.8	1176.0
17.5°	1890.6	1788.3	1690.7	1607.6	1500.2	1413.8	1338.8	1275.0	1215.8	1166.1	1129.4
20°	1922.4	1823.4	1717.4	1611.4	1505.9	1409.2	1321.9	1251.5	1190.1	1133.8	1099.8
22.5°	1941.6	1829.5	1717.9	1603.9	1491.8	1391.4	1305.0	1227.7	1161.0	1107.5	1065.6
25°	1964.0	1830.5	1707.4	1594.9	1480.7	1371.7	1269.1	1187.1	1115.1	1058.2	1013.7
27.5°	1978.8	1821.7	1676.3	1551.2	1435.3	1326.8	1232.8	1145.8	1072.7	1012.6	964.8
30°	1981.7	1814.6	1652.3	1517.0	1399.2	1299.6	1200.0	1116.8	1039.5	975.6	931.1
32.5°	1985.4	1797.3	1620.0	1476.2	1355.6	1257.0	1166.7	1087.3	1008.1	945.1	899.7
35°	1970.0	1787.7	1570.9	1405.7	1285.0	1189.5	1108.0	1034.7	956.8	895.9	849.6
37.5°	1903.3	1749.6	1520.0	1326.2	1200.0	1111.6	1045.2	981.4	909.8	844.1	800.5
40°	1836.3	1712.1	1480.7	1277.9	1146.1	1055.2	995.5	943.4	874.3	812.7	765.9
42.5°	1736.5	1661.0	1443.2	1227.3	1085.1	997.6	947.2	898.4	837.7	775.2	731.2
45°	1553.3	1563.3	1366.4	1146.7	1000.7	912.9	865.4	831.5	777.6	726.0	680.9
47.5°	1323.6	1416.8	1276.3	1060.8	911.8	829.3	787.8	758.2	721.9	671.2	630.1
50°	1173.6	1306.7	1204.1	1003.2	856.1	774.0	733.0	708.9	677.3	637.5	598.2
52.5°	1035.4	1178.2	1116.9	938.9	795.6	720.6	680.5	660.7	635.6	598.1	562.6
55°	844.3	989.0	975.0	842.0	704.9	637.5	607.0	584.8	567.7	539.7	511.5
57.5°	682.9	820.2	827.4	734.2	625.0	558.4	532.2	515.4	504.3	483.0	457.0
60°	581.3	707.2	731.8	661.5	567.7	509.2	483.4	469.9	461.2	444.1	424.2
62.5°	496.9	604.1	632.0	581.3	512.9	458.1	437.9	424.9	419.0	404.3	386.8
65°	380.3	469.3	496.3	468.1	432.4	388.5	372.0	360.9	355.7	347.5	334.6
67.5°	285.9	350.9	380.4	360.6	347.7	319.9	309.5	303.5	298.9	293.2	282.4
70°	229.7	277.8	308.2	302.9	292.4	277.8	270.1	266.0	261.3	256.7	247.3
72.5°	184.7	217.7	246.3	249.0	240.4	237.5	230.7	229.0	226.2	220.6	215.4
75°	122.4	145.3	165.2	172.9	176.3	179.3	176.3	175.8	175.2	170.5	167.6
77.5°	80.2	92.6	105.1	118.1	123.6	127.6	128.5	130.7	129.2	126.7	125.3
80°	61.6	64.5	73.3	84.4	93.2	96.7	99.0	100.2	99.6	99.0	96.7
82.5°	44.7	47.1	51.2	59.1	66.5	72.3	73.7	73.4	74.7	75.1	73.3
85°	24.0	24.6	25.7	26.9	31.1	37.5	39.3	40.5	41.6	41.6	38.1
87.5°	11.5	10.4	10.8	10.2	11.1	11.0	13.3	15.2	16.2	14.8	15.3
90°	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1	3.6	6.1	8.5
92.5°	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0	28.7	30.4	32.1
95°	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9	67.6	69.4	71.1
97.5°	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0	118.3	119.6	120.9
100°	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9	153.3	154.8	156.4
102.5°	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1	193.0	193.9	194.8
105°	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2	251.8	252.3	252.7
107.5°	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0	320.4	320.6	321.0
110°	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9	363.4	363.9	364.4





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6	407.9	408.2	408.5
115°	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6	475.4	476.0	476.8
117.5°	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1	542.5	543.0	543.5
120°	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0	585.5	587.0	588.5
122.5°	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8	628.9	630.0	631.1
125°	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6	695.3	696.0	696.8
127.5°	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2	757.9	759.4	761.0
130°	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3	799.3	801.3	803.3
132.5°	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4	840.4	842.4	844.4
135°	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2	902.7	904.1	905.6
137.5°	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2	960.4	961.7	962.9
140°	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4	1000.7	1001.9	1003.2
142.5°	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0	1037.3	1038.5	1039.8
145°	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2	1093.7	1094.2	1094.8
147.5°	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2	1144.2	1145.0	1146.0
150°	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1	1178.6	1179.1	1179.6
152.5°	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7	1207.4	1208.1	1208.8
155°	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2	1290.0	1289.6	1289.3
160°	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3	1313.9	1313.4	1312.9
162.5°	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8	1335.1	1334.4	1333.7
165°	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5	1362.7	1362.0	1361.2
167.5°	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6	1384.6	1383.6	1382.6
170°	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1	1397.1	1396.1	1395.2
172.5°	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9	1407.0	1405.9	1405.0
175°	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2	1417.2	1416.3	1415.2
177.5°	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5	1421.7	1420.8	1420.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1345.3	1339.2	1335.0	1325.6	1319.6	1312.9	1306.4	1310.6	1310.2	1309.7	1309.7
5°	1300.2	1286.7	1274.5	1258.6	1248.6	1236.3	1226.9	1225.8	1228.1	1220.0	1215.2
7.5°	1255.4	1237.0	1219.6	1202.1	1183.6	1168.8	1159.6	1155.2	1149.3	1144.2	1138.9
10°	1224.0	1202.4	1185.3	1163.6	1143.8	1126.2	1115.1	1107.4	1103.3	1099.2	1091.6
12.5°	1191.7	1170.4	1148.8	1124.3	1105.4	1084.9	1076.6	1068.1	1060.2	1055.6	1045.2
15°	1144.4	1116.8	1094.0	1068.2	1047.1	1027.2	1015.5	998.4	996.1	990.2	979.7
17.5°	1096.9	1067.0	1035.4	1016.4	992.6	971.8	954.0	948.3	931.5	925.2	916.0
20°	1059.4	1031.8	1007.8	982.7	948.0	928.7	914.6	907.1	893.5	885.4	879.5
22.5°	1027.0	999.0	971.3	941.8	913.3	891.7	881.4	869.5	862.1	850.7	844.3
25°	980.9	950.4	917.0	885.4	864.9	848.4	832.1	821.5	811.0	805.6	793.9
27.5°	927.2	895.4	864.1	840.1	814.9	798.7	783.9	774.5	761.8	752.9	746.5
30°	897.7	860.1	833.2	811.5	779.3	764.1	752.9	741.2	731.8	722.5	716.0
32.5°	863.4	829.2	803.7	776.9	752.1	735.5	721.1	710.8	702.7	693.9	687.4
35°	809.8	781.1	754.7	727.7	709.6	692.6	675.6	666.8	659.2	651.0	645.1
37.5°	761.2	734.4	709.4	683.8	661.2	647.5	633.8	627.1	616.7	611.2	605.3
40°	731.2	704.9	678.0	653.3	629.9	619.3	607.0	597.1	587.7	583.6	577.1
42.5°	698.4	672.1	649.4	622.8	603.6	589.4	578.0	567.1	560.1	554.1	550.4
45°	649.8	626.4	604.1	577.7	559.6	547.3	534.3	524.4	518.0	513.8	507.4
47.5°	602.6	579.1	556.6	533.6	516.0	501.9	489.0	482.1	473.6	468.6	464.2
50°	568.3	547.3	523.2	502.1	484.6	470.5	459.9	451.2	443.6	437.1	434.2
52.5°	536.9	514.4	493.7	474.1	455.5	439.5	430.0	420.7	415.0	407.6	404.2
55°	485.2	463.5	445.9	426.5	408.4	394.9	383.2	375.0	369.1	360.9	356.3
57.5°	436.5	417.1	396.1	379.4	360.6	349.2	339.5	328.4	321.2	314.8	310.2
60°	403.7	381.4	363.3	347.5	331.1	316.4	307.6	298.9	291.2	284.7	280.7
62.5°	369.5	350.1	332.8	315.6	300.6	287.8	277.6	270.3	263.6	259.4	255.4
65°	317.0	301.8	284.2	270.1	256.1	246.7	238.5	232.0	227.3	224.4	220.9
67.5°	268.7	253.9	238.6	224.8	215.4	208.3	202.9	197.3	195.0	191.2	188.9
70°	237.3	222.1	208.6	198.0	188.6	183.4	179.9	175.8	173.4	168.8	166.4
72.5°	203.1	192.1	182.4	173.7	166.2	161.4	156.9	151.9	148.1	142.9	140.6
75°	160.0	150.0	142.4	136.6	131.8	125.4	118.9	113.7	111.9	110.1	109.6
77.5°	118.5	112.2	106.7	101.7	95.8	91.2	89.8	88.6	88.3	87.3	87.3
80°	93.2	87.3	83.2	77.3	73.8	73.8	73.8	72.7	73.3	73.3	73.3
82.5°	69.2	63.9	61.6	59.5	58.8	59.3	59.3	59.5	59.2	60.1	59.7
85°	35.7	36.3	37.5	36.9	37.5	37.5	38.7	38.1	38.7	37.5	38.7
87.5°	15.3	17.3	18.4	19.5	20.7	20.8	21.5	21.7	22.4	22.6	22.7
90°	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8	29.8	30.7	31.5
92.5°	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4	45.3	46.1	46.3
95°	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6	85.6	86.6	87.1
97.5°	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6	132.8	133.9	134.4
100°	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7	166.3	167.1	167.7
102.5°	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9	205.7	206.5	206.7
105°	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6	263.6	263.6	263.8
107.5°	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0	327.8	328.6	328.8
110°	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4	370.4	371.3	371.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7	412.9	414.1	414.7
115°	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2	476.5	476.7	476.7
117.5°	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3	541.2	541.1	540.8
120°	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6	584.4	584.2	583.8
122.5°	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5	627.8	627.2	626.5
125°	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7	692.8	691.7	690.8
127.5°	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1	756.7	755.4	754.1
130°	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9	800.0	798.9	797.5
132.5°	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5	841.3	840.2	838.9
135°	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7	903.8	902.8	902.1
137.5°	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6	964.6	963.5	962.6
140°	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.2
142.5°	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2	1042.9	1042.7	1041.9
145°	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3	1098.1	1097.9	1097.3
147.5°	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4	1150.4	1150.4	1149.7
150°	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6	1182.6	1182.6	1181.8
152.5°	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9	1212.4	1212.7	1212.3
155°	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9	1255.9	1256.9	1256.5
157.5°	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8	1292.9	1294.0	1293.7
160°	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6	1315.9	1317.1	1317.2
162.5°	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0	1337.3	1338.5	1338.3
165°	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1	1364.6	1366.1	1366.0
167.5°	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2
170°	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6
172.5°	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5	1408.1	1409.6	1409.5
175°	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7	1418.2	1419.7	1419.5
177.5°	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3	1422.5	1423.7	1423.6
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1304.1	1303.6	1304.1	1302.2	1304.1	1303.6	1304.1	1309.7	1309.7	1310.2	1310.6
5°	1213.5	1212.9	1211.2	1205.8	1211.2	1212.9	1213.5	1215.2	1220.0	1228.1	1225.8
7.5°	1134.4	1133.6	1128.4	1128.5	1128.4	1133.6	1134.4	1138.9	1144.2	1149.3	1155.2
10°	1087.5	1088.0	1081.1	1076.9	1081.1	1088.0	1087.5	1091.6	1099.2	1103.3	1107.4
12.5°	1042.1	1039.3	1033.7	1029.2	1033.7	1039.3	1042.1	1045.2	1055.6	1060.2	1068.1
15°	982.1	976.2	962.1	963.3	962.1	976.2	982.1	979.7	990.2	996.1	998.4
17.5°	911.4	907.1	906.8	898.6	906.8	907.1	911.4	916.0	925.2	931.5	948.3
20°	870.1	867.2	868.3	860.1	868.3	867.2	870.1	879.5	885.4	893.5	907.1
22.5°	837.8	834.8	829.9	827.3	829.9	834.8	837.8	844.3	850.7	862.1	869.5
25°	790.4	785.7	781.1	784.0	781.1	785.7	790.4	793.9	805.6	811.0	821.5
27.5°	743.1	739.6	734.9	734.3	734.9	739.6	743.1	746.5	752.9	761.8	774.5
30°	713.1	709.6	707.2	704.3	707.2	709.6	713.1	716.0	722.5	731.8	741.2
32.5°	682.6	681.9	677.7	677.1	677.7	681.9	682.6	687.4	693.9	702.7	710.8
35°	642.7	639.3	638.1	638.7	638.1	639.3	642.7	645.1	651.0	659.2	666.8
37.5°	604.9	600.2	598.1	596.0	598.1	600.2	604.9	605.3	611.2	616.7	627.1
40°	577.7	573.1	571.9	570.7	571.9	573.1	577.7	577.1	583.6	587.7	597.1
42.5°	547.3	545.4	544.7	542.6	544.7	545.4	547.3	550.4	554.1	560.1	567.1
45°	505.7	505.1	501.5	502.7	501.5	505.1	505.7	507.4	513.8	518.0	524.4
47.5°	461.8	459.3	456.8	458.4	456.8	459.3	461.8	464.2	468.6	473.6	482.1
50°	431.9	430.7	425.4	426.5	425.4	430.7	431.9	434.2	437.1	443.6	451.2
52.5°	401.8	397.4	395.4	394.7	395.4	397.4	401.8	404.2	407.6	415.0	420.7
55°	352.1	346.9	344.6	343.4	344.6	346.9	352.1	356.3	360.9	369.1	375.0
57.5°	303.4	302.0	300.1	301.4	300.1	302.0	303.4	310.2	314.8	321.2	328.4
60°	274.8	274.8	274.8	274.2	274.8	274.8	274.8	280.7	284.7	291.2	298.9
62.5°	252.8	251.3	250.9	251.8	250.9	251.3	252.8	255.4	259.4	263.6	270.3
65°	219.1	218.5	216.2	215.6	216.2	218.5	219.1	220.9	224.4	227.3	232.0
67.5°	187.4	185.3	184.6	183.7	184.6	185.3	187.4	188.9	191.2	195.0	197.3
70°	163.5	162.3	158.8	159.4	158.8	162.3	163.5	166.4	168.8	173.4	175.8
72.5°	137.7	136.6	135.8	135.0	135.8	136.6	137.7	140.6	142.9	148.1	151.9
75°	109.0	108.4	107.8	110.1	107.8	108.4	109.0	109.6	110.1	111.9	113.7
77.5°	87.3	87.3	87.6	86.7	87.6	87.3	87.3	87.3	87.3	88.3	88.6
80°	73.3	73.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	72.7
82.5°	58.7	59.2	59.5	58.6	59.5	59.2	58.7	59.7	60.1	59.2	59.5
85°	38.7	38.1	39.3	38.7	39.3	38.1	38.7	38.7	37.5	38.7	38.1
87.5°	23.8	22.9	23.0	23.6	23.0	22.9	23.8	22.7	22.6	22.4	21.7
90°	32.0	32.5	33.0	33.5	33.0	32.5	32.0	31.5	30.7	29.8	28.8
92.5°	46.0	45.7	45.4	45.1	45.4	45.7	46.0	46.3	46.1	45.3	44.4
95°	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	86.6	85.6	84.6
97.5°	134.3	134.2	134.1	134.0	134.1	134.2	134.3	134.4	133.9	132.8	131.6
100°	168.2	168.8	169.3	169.7	169.3	168.8	168.2	167.7	167.1	166.3	165.7
102.5°	206.6	206.6	206.5	206.4	206.5	206.6	206.6	206.7	206.5	205.7	204.9
105°	264.3	264.8	265.3	265.8	265.3	264.8	264.3	263.8	263.6	263.6	263.6
107.5°	328.6	328.2	328.0	327.6	328.0	328.2	328.6	328.8	328.6	327.8	327.0
110°	371.1	370.7	370.1	369.6	370.1	370.7	371.1	371.6	371.3	370.4	369.4



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	414.6	414.5	414.4	414.3	414.4	414.5	414.6	414.7	414.1	412.9	411.7
115°	476.5	476.2	476.0	475.7	476.0	476.2	476.5	476.7	476.7	476.5	476.2
117.5°	540.1	539.4	538.7	538.0	538.7	539.4	540.1	540.8	541.1	541.2	541.3
120°	583.3	582.8	582.3	581.8	582.3	582.8	583.3	583.8	584.2	584.4	584.6
122.5°	625.9	625.2	624.5	623.8	624.5	625.2	625.9	626.5	627.2	627.8	628.5
125°	689.7	688.7	687.8	686.7	687.8	688.7	689.7	690.8	691.7	692.8	693.7
127.5°	752.9	751.8	750.7	749.5	750.7	751.8	752.9	754.1	755.4	756.7	758.1
130°	795.8	794.1	792.4	790.7	792.4	794.1	795.8	797.5	798.9	800.0	800.9
132.5°	837.5	836.2	834.8	833.5	834.8	836.2	837.5	838.9	840.2	841.3	842.5
135°	901.6	901.0	900.5	900.1	900.5	901.0	901.6	902.1	902.8	903.8	904.7
137.5°	961.7	960.7	959.8	958.8	959.8	960.7	961.7	962.6	963.5	964.6	965.6
140°	1002.5	1000.7	998.9	997.2	998.9	1000.7	1002.5	1004.2	1005.1	1005.4	1005.6
142.5°	1040.5	1039.2	1037.8	1036.6	1037.8	1039.2	1040.5	1041.9	1042.7	1042.9	1043.2
145°	1096.2	1095.2	1094.2	1093.2	1094.2	1095.2	1096.2	1097.3	1097.9	1098.1	1098.3
147.5°	1148.2	1146.7	1145.2	1143.8	1145.2	1146.7	1148.2	1149.7	1150.4	1150.4	1150.4
150°	1180.3	1178.9	1177.3	1175.9	1177.3	1178.9	1180.3	1181.8	1182.6	1182.6	1182.6
152.5°	1211.0	1209.7	1208.4	1207.1	1208.4	1209.7	1211.0	1212.3	1212.7	1212.4	1211.9
155°	1254.8	1253.1	1251.3	1249.6	1251.3	1253.1	1254.8	1256.5	1256.9	1255.9	1254.9
157.5°	1292.4	1291.0	1289.6	1288.2	1289.6	1291.0	1292.4	1293.7	1294.0	1292.9	1291.8
160°	1316.2	1315.3	1314.2	1313.2	1314.2	1315.3	1316.2	1317.2	1317.1	1315.9	1314.6
162.5°	1336.8	1335.2	1333.6	1332.0	1333.6	1335.2	1336.8	1338.3	1338.5	1337.3	1336.0
165°	1364.3	1362.5	1360.7	1359.0	1360.7	1362.5	1364.3	1366.0	1366.1	1364.6	1363.1
167.5°	1386.6	1385.1	1383.5	1382.0	1383.5	1385.1	1386.6	1388.2	1388.2	1386.6	1385.1
170°	1398.9	1397.1	1395.3	1393.6	1395.3	1397.1	1398.9	1400.6	1400.6	1398.9	1397.1
172.5°	1407.8	1406.0	1404.3	1402.6	1404.3	1406.0	1407.8	1409.5	1409.6	1408.1	1406.5
175°	1417.8	1416.1	1414.4	1412.6	1414.4	1416.1	1417.8	1419.5	1419.7	1418.2	1416.7
177.5°	1422.1	1420.7	1419.4	1418.0	1419.4	1420.7	1422.1	1423.6	1423.7	1422.5	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1306.4	1312.9	1319.6	1325.6	1335.0	1339.2	1345.3	1347.6	1354.7	1365.0	1373.5
5°	1226.9	1236.3	1248.6	1258.6	1274.5	1286.7	1300.2	1313.1	1328.4	1350.0	1369.3
7.5°	1159.6	1168.8	1183.6	1202.1	1219.6	1237.0	1255.4	1273.0	1294.8	1325.9	1356.7
10°	1115.1	1126.2	1143.8	1163.6	1185.3	1202.4	1224.0	1246.3	1273.2	1309.0	1345.9
12.5°	1076.6	1084.9	1105.4	1124.3	1148.8	1170.4	1191.7	1217.7	1248.4	1286.5	1330.9
15°	1015.5	1027.2	1047.1	1068.2	1094.0	1116.8	1144.4	1176.0	1205.8	1252.8	1306.7
17.5°	954.0	971.8	992.6	1016.4	1035.4	1067.0	1096.9	1129.4	1166.1	1215.8	1275.0
20°	914.6	928.7	948.0	982.7	1007.8	1031.8	1059.4	1099.8	1133.8	1190.1	1251.5
22.5°	881.4	891.7	913.3	941.8	971.3	999.0	1027.0	1065.6	1107.5	1161.0	1227.7
25°	832.1	848.4	864.9	885.4	917.0	950.4	980.9	1013.7	1058.2	1115.1	1187.1
27.5°	783.9	798.7	814.9	840.1	864.1	895.4	927.2	964.8	1012.6	1072.7	1145.8
30°	752.9	764.1	779.3	811.5	833.2	860.1	897.7	931.1	975.6	1039.5	1116.8
32.5°	721.1	735.5	752.1	776.9	803.7	829.2	863.4	899.7	945.1	1008.1	1087.3
35°	675.6	692.6	709.6	727.7	754.7	781.1	809.8	849.6	895.9	956.8	1034.7
37.5°	633.8	647.5	661.2	683.8	709.4	734.4	761.2	800.5	844.1	909.8	981.4
40°	607.0	619.3	629.9	653.3	678.0	704.9	731.2	765.9	812.7	874.3	943.4
42.5°	578.0	589.4	603.6	622.8	649.4	672.1	698.4	731.2	775.2	837.7	898.4
45°	534.3	547.3	559.6	577.7	604.1	626.4	649.8	680.9	726.0	777.6	831.5
47.5°	489.0	501.9	516.0	533.6	556.6	579.1	602.6	630.1	671.2	721.9	758.2
50°	459.9	470.5	484.6	502.1	523.2	547.3	568.3	598.2	637.5	677.3	708.9
52.5°	430.0	439.5	455.5	474.1	493.7	514.4	536.9	562.6	598.1	635.6	660.7
55°	383.2	394.9	408.4	426.5	445.9	463.5	485.2	511.5	539.7	567.7	584.8
57.5°	339.5	349.2	360.6	379.4	396.1	417.1	436.5	457.0	483.0	504.3	515.4
60°	307.6	316.4	331.1	347.5	363.3	381.4	403.7	424.2	444.1	461.2	469.9
62.5°	277.6	287.8	300.6	315.6	332.8	350.1	369.5	386.8	404.3	419.0	424.9
65°	238.5	246.7	256.1	270.1	284.2	301.8	317.0	334.6	347.5	355.7	360.9
67.5°	202.9	208.3	215.4	224.8	238.6	253.9	268.7	282.4	293.2	298.9	303.5
70°	179.9	183.4	188.6	198.0	208.6	222.1	237.3	247.3	256.7	261.3	266.0
72.5°	156.9	161.4	166.2	173.7	182.4	192.1	203.1	215.4	220.6	226.2	229.0
75°	118.9	125.4	131.8	136.6	142.4	150.0	160.0	167.6	170.5	175.2	175.8
77.5°	89.8	91.2	95.8	101.7	106.7	112.2	118.5	125.3	126.7	129.2	130.7
80°	73.8	73.8	73.8	77.3	83.2	87.3	93.2	96.7	99.0	99.6	100.2
82.5°	59.3	59.3	58.8	59.5	61.6	63.9	69.2	73.3	75.1	74.7	73.4
85°	38.7	37.5	37.5	36.9	37.5	36.3	35.7	38.1	41.6	41.6	40.5
87.5°	21.5	20.8	20.7	19.5	18.4	17.3	15.3	15.3	14.8	16.2	15.2
90°	27.8	26.8	23.6	20.3	17.1	13.9	11.0	8.5	6.1	3.6	1.1
92.5°	43.7	42.9	41.1	39.2	37.4	35.6	33.8	32.1	30.4	28.7	27.0
95°	83.6	82.7	80.7	78.7	76.7	74.7	72.8	71.1	69.4	67.6	65.9
97.5°	130.4	129.3	127.9	126.4	125.0	123.6	122.2	120.9	119.6	118.3	117.0
100°	164.9	164.2	162.9	161.7	160.4	159.2	157.8	156.4	154.8	153.3	151.9
102.5°	204.2	203.5	201.8	200.2	198.5	196.9	195.6	194.8	193.9	193.0	192.1
105°	263.6	263.6	261.3	259.1	256.8	254.6	253.2	252.7	252.3	251.8	251.2
107.5°	326.2	325.4	324.5	323.6	322.7	321.8	321.2	321.0	320.6	320.4	320.0
110°	368.4	367.4	366.9	366.4	365.9	365.4	364.9	364.4	363.9	363.4	362.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	410.6	409.4	409.3	409.1	409.1	409.0	408.8	408.5	408.2	407.9	407.6
115°	476.0	475.7	476.2	476.7	477.2	477.7	477.6	476.8	476.0	475.4	474.6
117.5°	541.3	541.4	542.0	542.7	543.3	544.0	544.1	543.5	543.0	542.5	542.1
120°	584.9	585.1	586.4	587.6	588.8	590.1	590.0	588.5	587.0	585.5	584.0
122.5°	629.1	629.8	630.4	631.1	631.7	632.4	632.1	631.1	630.0	628.9	627.8
125°	694.7	695.7	696.2	696.7	697.2	697.7	697.6	696.8	696.0	695.3	694.6
127.5°	759.5	761.0	761.5	762.0	762.6	763.1	762.6	761.0	759.4	757.9	756.2
130°	801.9	802.9	803.7	804.4	805.1	805.9	805.3	803.3	801.3	799.3	797.3
132.5°	843.7	844.9	845.4	846.0	846.5	847.1	846.4	844.4	842.4	840.4	838.4
135°	905.8	906.7	907.0	907.2	907.5	907.8	907.1	905.6	904.1	902.7	901.2
137.5°	966.6	967.8	967.1	966.5	965.8	965.2	964.2	962.9	961.7	960.4	959.2
140°	1005.9	1006.2	1005.9	1005.6	1005.4	1005.1	1004.4	1003.2	1001.9	1000.7	999.4
142.5°	1043.4	1043.7	1043.2	1042.8	1042.3	1041.9	1041.0	1039.8	1038.5	1037.3	1036.0
145°	1098.5	1098.8	1098.1	1097.3	1096.6	1095.9	1095.2	1094.8	1094.2	1093.7	1093.2
147.5°	1150.4	1150.4	1149.7	1149.0	1148.3	1147.6	1146.9	1146.0	1145.0	1144.2	1143.2
150°	1182.6	1182.6	1182.1	1181.6	1181.1	1180.6	1180.1	1179.6	1179.1	1178.6	1178.1
152.5°	1211.6	1211.2	1210.9	1210.6	1210.3	1210.0	1209.4	1208.8	1208.1	1207.4	1206.7
155°	1254.0	1252.9	1252.7	1252.4	1252.2	1252.0	1251.8	1251.8	1251.8	1251.8	1251.8
157.5°	1290.8	1289.8	1289.6	1289.3	1289.2	1289.0	1289.0	1289.3	1289.6	1290.0	1290.2
160°	1313.4	1312.1	1312.1	1312.1	1312.1	1312.1	1312.3	1312.9	1313.4	1313.9	1314.3
162.5°	1334.8	1333.5	1333.3	1333.2	1333.0	1332.7	1333.0	1333.7	1334.4	1335.1	1335.8
165°	1361.6	1360.1	1360.1	1360.1	1360.1	1360.1	1360.6	1361.2	1362.0	1362.7	1363.5
167.5°	1383.5	1382.0	1381.8	1381.6	1381.4	1381.2	1381.6	1382.6	1383.6	1384.6	1385.6
170°	1395.3	1393.6	1393.6	1393.6	1393.6	1393.6	1394.1	1395.2	1396.1	1397.1	1398.1
172.5°	1405.0	1403.4	1403.4	1403.4	1403.4	1403.4	1403.9	1405.0	1405.9	1407.0	1407.9
175°	1415.2	1413.8	1413.8	1413.8	1413.8	1413.8	1414.2	1415.2	1416.3	1417.2	1418.2
177.5°	1420.0	1418.8	1418.8	1418.8	1418.8	1418.8	1419.3	1420.0	1420.8	1421.7	1422.5
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1376.2	1381.4	1387.9	1397.8	1405.3	1411.9	1413.2	1415.1	1419.9	1427.8	1433.9
5°	1385.2	1398.6	1420.3	1441.4	1464.3	1483.0	1500.6	1512.9	1524.6	1549.2	1569.2
7.5°	1382.3	1412.4	1446.3	1484.2	1522.5	1559.6	1594.1	1625.0	1655.6	1691.5	1732.4
10°	1380.4	1415.7	1461.3	1509.9	1563.3	1615.4	1665.9	1705.1	1750.8	1791.8	1843.9
12.5°	1371.6	1422.2	1476.8	1539.0	1604.6	1664.7	1731.0	1785.2	1837.5	1896.8	1957.4
15°	1359.9	1421.5	1490.6	1573.2	1672.8	1745.5	1813.4	1907.8	1972.3	2036.7	2123.5
17.5°	1338.8	1413.8	1500.2	1607.6	1690.7	1788.3	1890.6	1965.1	2051.9	2142.8	2221.3
20°	1321.9	1409.2	1505.9	1611.4	1717.4	1823.4	1922.4	2011.6	2101.2	2206.1	2270.5
22.5°	1305.0	1391.4	1491.8	1603.9	1717.9	1829.5	1941.6	2046.3	2147.1	2252.9	2335.2
25°	1269.1	1371.7	1480.7	1594.9	1707.4	1830.5	1964.0	2080.7	2205.5	2314.5	2392.4
27.5°	1232.8	1326.8	1435.3	1551.2	1676.3	1821.7	1978.8	2111.3	2236.4	2314.5	2339.0
30°	1200.0	1299.6	1399.2	1517.0	1652.3	1814.6	1981.7	2133.4	2235.9	2269.9	2244.7
32.5°	1166.7	1257.0	1355.6	1476.2	1620.0	1797.3	1985.4	2120.3	2182.0	2156.0	2053.5
35°	1108.0	1189.5	1285.0	1405.7	1570.9	1787.7	1970.0	2061.3	2046.1	1899.6	1706.2
37.5°	1045.2	1111.6	1200.0	1326.2	1520.0	1749.6	1903.3	1916.8	1785.0	1560.1	1336.8
40°	995.5	1055.2	1146.1	1277.9	1480.7	1712.1	1836.3	1781.8	1577.4	1327.1	1140.8
42.5°	947.2	997.6	1085.1	1227.3	1443.2	1661.0	1736.5	1617.8	1381.9	1145.3	975.9
45°	865.4	912.9	1000.7	1146.7	1366.4	1563.3	1553.3	1347.0	1110.9	920.5	779.9
47.5°	787.8	829.3	911.8	1060.8	1276.3	1416.8	1323.6	1104.1	903.9	751.1	650.7
50°	733.0	774.0	856.1	1003.2	1204.1	1306.7	1173.6	962.1	778.7	652.1	572.5
52.5°	680.5	720.6	795.6	938.9	1116.9	1178.2	1035.4	839.3	686.4	577.1	508.7
55°	607.0	637.5	704.9	842.0	975.0	989.0	844.3	680.3	554.3	478.1	431.3
57.5°	532.2	558.4	625.0	734.2	827.4	820.2	682.9	541.1	456.2	399.6	365.7
60°	483.4	509.2	567.7	661.5	731.8	707.2	581.3	467.0	394.3	352.8	325.8
62.5°	437.9	458.1	512.9	581.3	632.0	604.1	496.9	402.3	344.7	309.6	288.3
65°	372.0	388.5	432.4	468.1	496.3	469.3	380.3	314.6	273.0	248.4	233.8
67.5°	309.5	319.9	347.7	360.6	380.4	350.9	285.9	242.0	218.3	197.6	187.4
70°	270.1	277.8	292.4	302.9	308.2	277.8	229.7	197.4	177.5	162.9	156.4
72.5°	230.7	237.5	240.4	249.0	246.3	217.7	184.7	159.0	144.7	134.7	126.5
75°	176.3	179.3	176.3	172.9	165.2	145.3	122.4	109.6	99.0	94.4	91.4
77.5°	128.5	127.6	123.6	118.1	105.1	92.6	80.2	75.9	71.4	68.9	67.8
80°	99.0	96.7	93.2	84.4	73.3	64.5	61.6	58.6	56.8	53.9	53.3
82.5°	73.7	72.3	66.5	59.1	51.2	47.1	44.7	43.6	41.8	40.3	40.2
85°	39.3	37.5	31.1	26.9	25.7	24.6	24.0	24.0	21.7	21.1	21.1
87.5°	13.3	11.0	11.1	10.2	10.8	10.4	11.5	11.3	11.5	12.1	11.4
90°	3.6	6.1	8.5	11.0	13.9	17.1	20.3	23.6	26.8	27.8	28.8
92.5°	28.7	30.4	32.1	33.8	35.6	37.4	39.2	41.1	42.9	43.7	44.4
95°	67.6	69.4	71.1	72.8	74.7	76.7	78.7	80.7	82.7	83.6	84.6
97.5°	118.3	119.6	120.9	122.2	123.6	125.0	126.4	127.9	129.3	130.4	131.6
100°	153.3	154.8	156.4	157.8	159.2	160.4	161.7	162.9	164.2	164.9	165.7
102.5°	193.0	193.9	194.8	195.6	196.9	198.5	200.2	201.8	203.5	204.2	204.9
105°	251.8	252.3	252.7	253.2	254.6	256.8	259.1	261.3	263.6	263.6	263.6
107.5°	320.4	320.6	321.0	321.2	321.8	322.7	323.6	324.5	325.4	326.2	327.0
110°	363.4	363.9	364.4	364.9	365.4	365.9	366.4	366.9	367.4	368.4	369.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	407.9	408.2	408.5	408.8	409.0	409.1	409.1	409.3	409.4	410.6	411.7
115°	475.4	476.0	476.8	477.6	477.7	477.2	476.7	476.2	475.7	476.0	476.2
117.5°	542.5	543.0	543.5	544.1	544.0	543.3	542.7	542.0	541.4	541.3	541.3
120°	585.5	587.0	588.5	590.0	590.1	588.8	587.6	586.4	585.1	584.9	584.6
122.5°	628.9	630.0	631.1	632.1	632.4	631.7	631.1	630.4	629.8	629.1	628.5
125°	695.3	696.0	696.8	697.6	697.7	697.2	696.7	696.2	695.7	694.7	693.7
127.5°	757.9	759.4	761.0	762.6	763.1	762.6	762.0	761.5	761.0	759.5	758.1
130°	799.3	801.3	803.3	805.3	805.9	805.1	804.4	803.7	802.9	801.9	800.9
132.5°	840.4	842.4	844.4	846.4	847.1	846.5	846.0	845.4	844.9	843.7	842.5
135°	902.7	904.1	905.6	907.1	907.8	907.5	907.2	907.0	906.7	905.8	904.7
137.5°	960.4	961.7	962.9	964.2	965.2	965.8	966.5	967.1	967.8	966.6	965.6
140°	1000.7	1001.9	1003.2	1004.4	1005.1	1005.4	1005.6	1005.9	1006.2	1005.9	1005.6
142.5°	1037.3	1038.5	1039.8	1041.0	1041.9	1042.3	1042.8	1043.2	1043.7	1043.4	1043.2
145°	1093.7	1094.2	1094.8	1095.2	1095.9	1096.6	1097.3	1098.1	1098.8	1098.5	1098.3
147.5°	1144.2	1145.0	1146.0	1146.9	1147.6	1148.3	1149.0	1149.7	1150.4	1150.4	1150.4
150°	1178.6	1179.1	1179.6	1180.1	1180.6	1181.1	1181.6	1182.1	1182.6	1182.6	1182.6
152.5°	1207.4	1208.1	1208.8	1209.4	1210.0	1210.3	1210.6	1210.9	1211.2	1211.6	1211.9
155°	1251.8	1251.8	1251.8	1251.8	1252.0	1252.2	1252.4	1252.7	1252.9	1254.0	1254.9
157.5°	1290.0	1289.6	1289.3	1289.0	1289.0	1289.2	1289.3	1289.6	1289.8	1290.8	1291.8
160°	1313.9	1313.4	1312.9	1312.3	1312.1	1312.1	1312.1	1312.1	1312.1	1313.4	1314.6
162.5°	1335.1	1334.4	1333.7	1333.0	1332.7	1333.0	1333.2	1333.3	1333.5	1334.8	1336.0
165°	1362.7	1362.0	1361.2	1360.6	1360.1	1360.1	1360.1	1360.1	1360.1	1361.6	1363.1
167.5°	1384.6	1383.6	1382.6	1381.6	1381.2	1381.4	1381.6	1381.8	1382.0	1383.5	1385.1
170°	1397.1	1396.1	1395.2	1394.1	1393.6	1393.6	1393.6	1393.6	1393.6	1395.3	1397.1
172.5°	1407.0	1405.9	1405.0	1403.9	1403.4	1403.4	1403.4	1403.4	1403.4	1405.0	1406.5
175°	1417.2	1416.3	1415.2	1414.2	1413.8	1413.8	1413.8	1413.8	1413.8	1415.2	1416.7
177.5°	1421.7	1420.8	1420.0	1419.3	1418.8	1418.8	1418.8	1418.8	1418.8	1420.0	1421.3
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1443.7	1443.7	1445.6	1452.7	1453.6	1459.7	1457.8
5°	1586.7	1597.8	1602.0	1619.5	1630.0	1634.8	1625.4
7.5°	1761.6	1792.9	1807.8	1826.3	1842.5	1847.4	1834.7
10°	1889.0	1921.8	1949.4	1966.4	1982.2	1992.8	2006.2
12.5°	2012.3	2052.6	2078.8	2102.8	2119.1	2132.4	2134.7
15°	2146.3	2207.3	2253.5	2287.5	2304.5	2313.2	2309.8
17.5°	2281.4	2337.9	2370.8	2405.5	2429.1	2430.3	2430.9
20°	2357.8	2412.9	2451.0	2476.8	2503.1	2502.0	2507.8
22.5°	2408.9	2452.3	2481.5	2500.2	2509.2	2504.7	2505.9
25°	2432.8	2445.7	2440.4	2410.5	2403.0	2375.4	2380.1
27.5°	2309.5	2248.6	2185.6	2104.5	2040.5	1989.3	1991.9
30°	2142.2	2034.4	1911.3	1808.2	1715.6	1689.9	1634.8
32.5°	1908.3	1746.5	1602.4	1506.3	1426.8	1405.3	1357.3
35°	1511.7	1354.7	1206.4	1117.4	1082.2	1033.0	1032.4
37.5°	1175.0	1036.7	958.4	891.6	856.5	826.7	823.8
40°	988.5	880.6	821.5	773.4	738.9	716.6	711.4
42.5°	858.2	770.9	715.6	685.8	659.2	647.7	639.1
45°	700.8	642.2	603.5	576.5	564.3	555.4	550.8
47.5°	586.2	546.9	520.6	502.7	492.7	483.4	485.9
50°	523.8	491.6	472.3	455.3	447.6	441.2	441.8
52.5°	473.6	444.7	429.1	416.8	407.3	402.8	400.5
55°	401.9	383.7	368.0	359.2	353.9	347.5	345.7
57.5°	342.9	328.8	315.9	306.0	304.7	298.5	299.3
60°	303.5	291.8	281.3	276.0	271.9	266.6	268.4
62.5°	271.2	261.3	251.8	247.4	243.3	239.4	240.2
65°	222.1	212.7	206.8	204.5	202.8	201.0	199.2
67.5°	176.9	171.3	167.6	162.6	158.9	158.3	156.5
70°	148.9	141.2	134.7	128.3	126.6	126.0	126.6
72.5°	119.3	114.5	112.7	109.6	109.3	107.7	108.7
75°	89.6	87.9	86.7	84.4	84.4	84.4	84.4
77.5°	66.1	65.0	64.3	63.9	63.3	62.4	62.3
80°	51.6	51.0	49.8	49.8	49.2	49.8	49.2
82.5°	38.9	38.8	37.6	37.6	37.0	36.7	37.0
85°	19.9	19.4	20.5	19.4	19.9	18.8	19.9
87.5°	11.6	11.8	11.5	11.5	11.2	12.2	11.4
90°	29.8	30.7	31.5	32.0	32.5	33.0	33.5
92.5°	45.3	46.1	46.3	46.0	45.7	45.4	45.1
95°	85.6	86.6	87.1	87.1	87.1	87.1	87.1
97.5°	132.8	133.9	134.4	134.3	134.2	134.1	134.0
100°	166.3	167.1	167.7	168.2	168.8	169.3	169.7
102.5°	205.7	206.5	206.7	206.6	206.6	206.5	206.4
105°	263.6	263.6	263.8	264.3	264.8	265.3	265.8
107.5°	327.8	328.6	328.8	328.6	328.2	328.0	327.6
110°	370.4	371.3	371.6	371.1	370.7	370.1	369.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	412.9	414.1	414.7	414.6	414.5	414.4	414.3
115°	476.5	476.7	476.7	476.5	476.2	476.0	475.7
117.5°	541.2	541.1	540.8	540.1	539.4	538.7	538.0
120°	584.4	584.2	583.8	583.3	582.8	582.3	581.8
122.5°	627.8	627.2	626.5	625.9	625.2	624.5	623.8
125°	692.8	691.7	690.8	689.7	688.7	687.8	686.7
127.5°	756.7	755.4	754.1	752.9	751.8	750.7	749.5
130°	800.0	798.9	797.5	795.8	794.1	792.4	790.7
132.5°	841.3	840.2	838.9	837.5	836.2	834.8	833.5
135°	903.8	902.8	902.1	901.6	901.0	900.5	900.1
137.5°	964.6	963.5	962.6	961.7	960.7	959.8	958.8
140°	1005.4	1005.1	1004.2	1002.5	1000.7	998.9	997.2
142.5°	1042.9	1042.7	1041.9	1040.5	1039.2	1037.8	1036.6
145°	1098.1	1097.9	1097.3	1096.2	1095.2	1094.2	1093.2
147.5°	1150.4	1150.4	1149.7	1148.2	1146.7	1145.2	1143.8
150°	1182.6	1182.6	1181.8	1180.3	1178.9	1177.3	1175.9
152.5°	1212.4	1212.7	1212.3	1211.0	1209.7	1208.4	1207.1
155°	1255.9	1256.9	1256.5	1254.8	1253.1	1251.3	1249.6
157.5°	1292.9	1294.0	1293.7	1292.4	1291.0	1289.6	1288.2
160°	1315.9	1317.1	1317.2	1316.2	1315.3	1314.2	1313.2
162.5°	1337.3	1338.5	1338.3	1336.8	1335.2	1333.6	1332.0
165°	1364.6	1366.1	1366.0	1364.3	1362.5	1360.7	1359.0
167.5°	1386.6	1388.2	1388.2	1386.6	1385.1	1383.5	1382.0
170°	1398.9	1400.6	1400.6	1398.9	1397.1	1395.3	1393.6
172.5°	1408.1	1409.6	1409.5	1407.8	1406.0	1404.3	1402.6
175°	1418.2	1419.7	1419.5	1417.8	1416.1	1414.4	1412.6
177.5°	1422.5	1423.7	1423.6	1422.1	1420.7	1419.4	1418.0
180°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6

(END OF REPORT)