

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: P332447-940

Luminaire Tested: **S123RDIW-S775D1535U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332447-940  
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-S775D1535U940-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

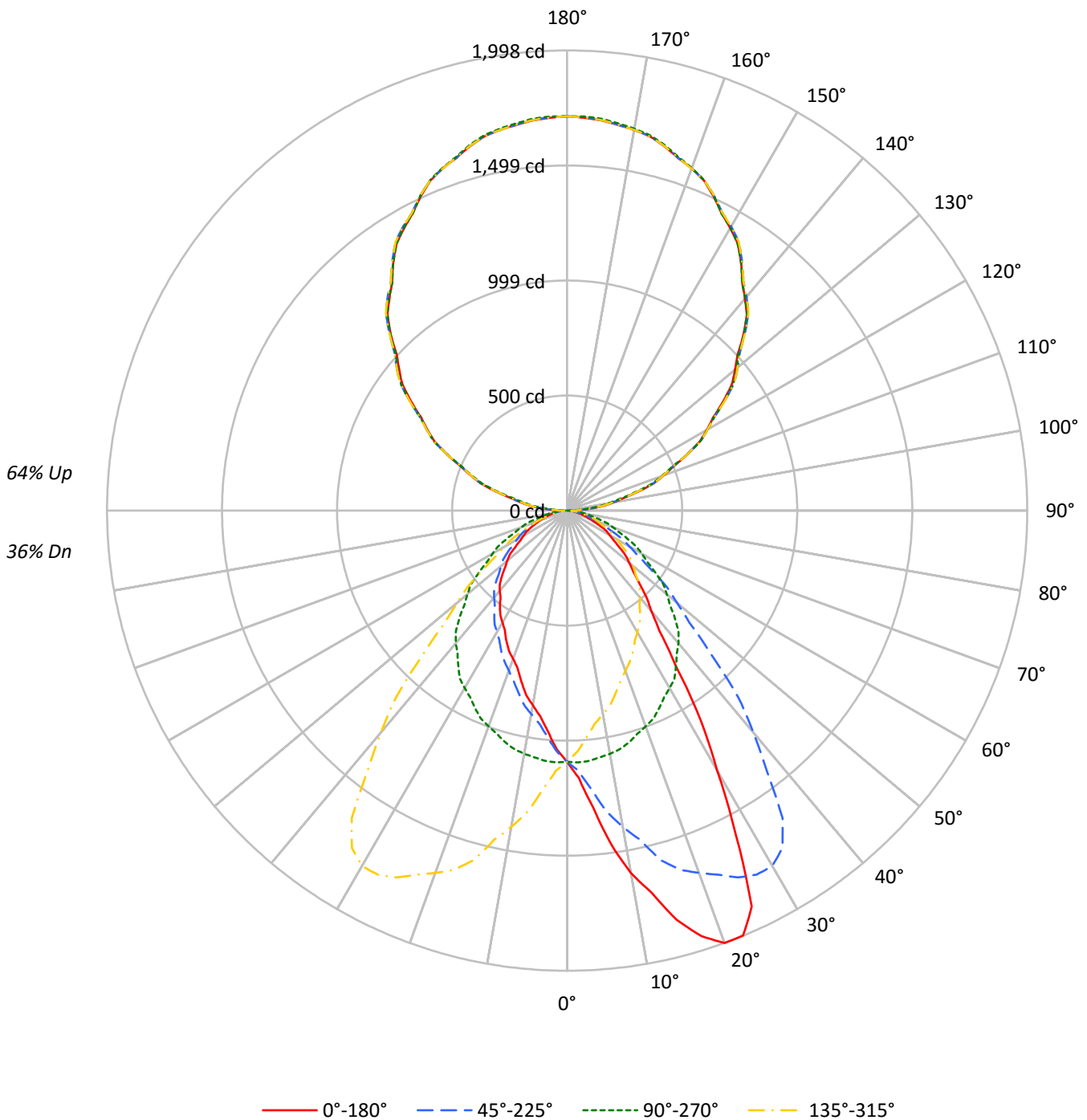
Lumens per Lamp: N/A  
Luminaire Lumens: 7463.1 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32				
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27				
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	31	30	28	23				
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	28	26	24	20				
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	23	22	18				
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16				
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13				
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12				
10	46	34	28	23	42	32	26	21	27	22	18	22	18	16	17	14	13	11				

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

	0°	90°	180°	270°
0°	11739	11739	11739	11739
5°	13993	11788	10381	11788
10°	17472	11721	9379	11721
15°	20508	11602	8553	11602
20°	22888	11423	7851	11423
25°	22523	11233	7418	11233
30°	16189	11059	6975	11059
35°	10809	10834	6687	10834
40°	7964	10561	6389	10561
45°	6680	10085	6098	10085
50°	5894	9460	5690	9460
55°	5168	8743	5134	8743
60°	4603	8060	4704	8060
65°	4042	7325	4376	7325
70°	3175	6672	3997	6672
75°	2795	5827	3647	5827
80°	2430	4947	3589	4947
85°	1964	3977	3816	3977



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	1.4
10°-20°	335.1	4.5
20°-30°	526.4	7.1
30°-40°	549.2	7.4
40°-50°	470.0	6.3
50°-60°	358.2	4.8
60°-70°	229.6	3.1
70°-80°	110.5	1.5
80°-90°	34.3	0.5
90°-100°	111.5	1.5
100°-110°	333.8	4.5
110°-120°	567.7	7.6
120°-130°	746.7	10.0
130°-140°	839.3	11.2
140°-150°	825.0	11.1
150°-160°	694.5	9.3
160°-170°	462.3	6.2
170°-180°	161.9	2.2
0°-30°	968.7	13.0
0°-40°	1517.9	20.3
0°-60°	2346.1	31.4
0°-90°	2720.4	36.5
90°-120°	1013.0	13.6
90°-150°	3423.9	45.9
90°-180°	4743.0	63.6
0°-180°	7463.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1091	1091	1091	1091	1091	
5°	1295	1091	961	1091	1295	134
15°	1840	1041	768	1041	1840	522
25°	1896	946	625	946	1896	815
35°	823	824	509	824	823	539
45°	439	662	401	662	439	345
55°	275	466	274	466	275	249
65°	159	288	172	288	159	156
75°	67	140	88	140	67	72
85°	16	32	31	32	16	19
90°	40	1	40	1	40	20
95°	105	79	105	79	105	108
105°	320	303	320	303	320	340
115°	573	572	573	572	573	567
125°	827	836	827	836	827	739
135°	1084	1085	1084	1085	1084	833
145°	1316	1316	1316	1316	1316	822
155°	1505	1507	1505	1507	1505	693
165°	1636	1642	1636	1642	1636	462
175°	1701	1708	1701	1708	1701	162
180°	1712	1712	1712	1712	1712	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1161.5	1163.1	1158.2	1157.4	1151.8	1150.3	1150.3	1142.5	1137.6	1131.3	1127.6
5°	1295.0	1302.5	1298.8	1290.4	1276.4	1273.1	1264.3	1250.3	1234.4	1214.8	1205.4
7.5°	1461.8	1472.0	1468.1	1455.1	1440.5	1428.6	1403.6	1380.3	1347.7	1319.1	1294.7
10°	1598.5	1587.8	1579.4	1566.7	1553.3	1531.2	1505.1	1469.2	1427.6	1395.0	1358.5
12.5°	1700.8	1699.1	1688.5	1675.4	1656.4	1635.5	1603.4	1559.6	1511.3	1464.1	1422.5
15°	1840.3	1843.2	1836.1	1822.6	1795.5	1758.6	1710.1	1691.8	1622.8	1571.5	1520.1
17.5°	1936.9	1936.4	1935.4	1916.6	1889.0	1862.8	1817.8	1769.9	1707.3	1635.0	1565.8
20°	1998.1	1993.5	1994.4	1973.4	1952.8	1922.5	1878.7	1809.1	1757.7	1674.2	1602.7
22.5°	1996.6	1995.7	1999.3	1992.1	1977.1	1953.9	1919.3	1860.6	1795.1	1710.7	1630.3
25°	1896.4	1892.7	1914.6	1920.7	1944.5	1948.7	1938.4	1906.2	1844.1	1757.2	1657.8
27.5°	1587.2	1585.1	1625.8	1676.8	1741.3	1791.6	1840.1	1863.6	1844.1	1781.9	1682.3
30°	1302.5	1346.4	1367.0	1440.7	1522.9	1621.0	1706.8	1788.5	1808.6	1781.5	1699.8
32.5°	1081.5	1119.7	1136.8	1200.2	1276.8	1391.6	1520.5	1636.1	1717.9	1738.6	1689.3
35°	822.6	823.0	862.3	890.3	961.3	1079.3	1204.5	1359.5	1513.5	1630.2	1642.4
37.5°	656.4	658.7	682.4	710.3	763.6	826.1	936.2	1065.1	1243.0	1422.2	1527.2
40°	566.8	571.0	588.7	616.3	654.5	701.7	787.6	909.0	1057.4	1256.8	1419.7
42.5°	509.3	516.0	525.2	546.4	570.2	614.3	683.8	777.5	912.5	1101.0	1289.0
45°	438.8	442.6	449.6	459.4	480.9	511.7	558.4	621.3	733.4	885.2	1073.3
47.5°	387.1	385.1	392.5	400.5	414.7	435.8	467.1	518.5	598.4	720.1	879.8
50°	352.0	351.5	356.7	362.7	376.3	391.7	417.4	456.1	519.6	620.5	766.6
52.5°	319.1	320.9	324.6	332.2	341.9	354.4	377.4	405.3	459.9	546.9	668.7
55°	275.4	276.9	282.0	286.1	293.2	305.8	320.3	343.6	380.9	441.7	542.0
57.5°	238.4	237.8	242.7	243.8	251.7	262.0	273.2	291.3	318.4	363.5	431.1
60°	213.8	212.4	216.6	219.9	224.1	232.5	241.8	259.6	281.1	314.1	372.1
62.5°	191.5	190.7	193.9	197.1	200.5	208.2	216.1	229.7	246.6	274.6	320.6
65°	158.7	160.2	161.5	162.9	164.8	169.4	176.9	186.3	198.0	217.6	250.7
67.5°	124.8	126.2	126.6	129.5	133.5	136.4	141.0	149.3	157.4	174.0	192.8
70°	100.9	100.4	100.9	102.3	107.4	112.5	118.6	124.7	129.7	141.4	157.3
72.5°	86.7	85.8	87.0	87.3	89.8	91.2	95.1	100.8	107.4	115.3	126.7
75°	67.2	67.2	67.2	67.2	69.1	70.0	71.4	72.9	75.2	78.9	87.3
77.5°	49.7	49.8	50.4	50.9	51.3	51.8	52.7	54.0	54.9	56.9	60.5
80°	39.2	39.7	39.2	39.7	39.7	40.6	41.1	42.4	43.0	45.3	46.7
82.5°	29.5	29.2	29.5	30.0	30.0	30.9	31.0	32.0	32.1	33.3	34.8
85°	15.9	15.0	15.9	15.4	16.3	15.4	15.9	16.8	16.8	17.3	19.2
87.5°	11.8	12.4	11.6	11.9	11.7	11.9	11.7	11.4	11.9	11.3	10.9
90°	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7	33.4	32.3	28.4
92.5°	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5	52.6	51.6	49.4
95°	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9	100.7	99.5	97.1
97.5°	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5	157.1	155.7	154.0
100°	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5	198.6	197.7	196.2
102.5°	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8	245.9	245.0	243.0
105°	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4	317.4	317.4	314.7
107.5°	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8	392.8	391.8	390.7
110°	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8	443.6	442.4	441.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8	494.4	492.9	492.8
115°	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5	573.1	572.8	573.5
117.5°	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8	651.8	651.9	652.6
120°	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0	704.3	704.6	706.1
122.5°	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8	757.6	758.4	759.2
125°	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4	836.5	837.8	838.3
127.5°	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9	914.5	916.2	916.9
130°	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4	965.6	966.8	967.7
132.5°	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5	1015.9	1017.4	1018.0
135°	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5	1090.7	1091.9	1092.2
137.5°	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8	1164.0	1165.3	1164.5
140°	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2
142.5°	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2	1256.4	1256.7	1256.2
145°	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5	1322.9	1323.1	1322.2
147.5°	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0	1424.0	1424.0	1423.3
152.5°	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4	1458.9	1458.4	1458.0
155°	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1	1509.9	1508.7	1508.4
157.5°	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6	1554.3	1553.1	1552.8
160°	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0	1581.4	1579.9	1579.9
162.5°	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7	1607.3	1605.8	1605.5
165°	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4	1639.6	1637.8	1637.8
167.5°	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1	1663.9
170°	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1	1678.1
172.5°	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6	1691.8	1690.0	1690.0
175°	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9	1704.1	1702.4	1702.4
177.5°	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4	1709.9	1708.5	1708.5
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1126.1	1124.9	1119.7	1113.7	1105.9	1100.6	1096.5	1094.3	1087.6	1079.3	1073.8
5°	1195.6	1181.6	1166.7	1148.4	1131.7	1114.4	1103.7	1091.0	1075.7	1058.4	1046.2
7.5°	1270.2	1242.7	1213.1	1182.6	1152.4	1125.3	1101.4	1080.9	1056.4	1031.6	1014.3
10°	1327.3	1287.1	1245.5	1203.1	1164.3	1127.9	1099.9	1072.4	1042.9	1014.5	993.0
12.5°	1379.2	1326.3	1278.4	1226.3	1176.7	1133.2	1092.8	1060.4	1025.0	994.7	970.2
15°	1444.9	1390.8	1332.8	1253.5	1187.7	1132.6	1083.6	1041.1	998.2	960.8	937.0
17.5°	1506.4	1424.9	1347.1	1280.9	1195.3	1126.5	1066.7	1015.8	968.8	929.2	899.8
20°	1531.8	1452.9	1368.3	1283.9	1199.8	1122.8	1053.2	997.2	948.2	903.4	876.3
22.5°	1547.0	1457.7	1368.7	1277.9	1188.7	1108.6	1039.8	978.1	925.1	882.4	849.0
25°	1564.9	1458.5	1360.4	1270.8	1179.7	1092.9	1011.2	945.8	888.4	843.1	807.6
27.5°	1576.6	1451.4	1335.6	1235.9	1143.6	1057.1	982.2	913.0	854.7	806.8	768.7
30°	1578.9	1445.8	1316.5	1208.7	1114.8	1035.5	956.1	889.8	828.2	777.3	741.8
32.5°	1581.9	1432.0	1290.8	1176.2	1080.1	1001.5	929.6	866.3	803.2	753.0	716.8
35°	1569.6	1424.4	1251.6	1120.0	1023.8	947.7	882.8	824.5	762.4	713.8	676.9
37.5°	1516.5	1394.0	1211.1	1056.7	956.1	885.6	832.8	781.9	725.0	672.5	637.8
40°	1463.1	1364.1	1179.7	1018.2	913.2	840.8	793.2	751.6	696.5	647.6	610.2
42.5°	1383.6	1323.5	1149.9	977.9	864.6	794.9	754.7	715.8	667.4	617.7	582.6
45°	1237.6	1245.5	1088.7	913.6	797.4	727.4	689.6	662.5	619.6	578.5	542.5
47.5°	1054.6	1128.8	1016.9	845.2	726.5	660.8	627.8	604.1	575.2	534.8	502.0
50°	935.1	1041.1	959.4	799.2	682.1	616.7	584.1	564.9	539.7	507.9	476.6
52.5°	824.9	938.8	889.9	748.1	633.9	574.2	542.2	526.5	506.4	476.5	448.3
55°	672.7	788.1	776.9	670.8	561.6	507.9	483.7	465.9	452.4	430.0	407.6
57.5°	544.2	653.5	659.3	585.0	497.9	444.9	424.0	410.6	401.8	384.9	364.2
60°	463.2	563.5	583.1	527.1	452.4	405.7	385.1	374.4	367.4	353.9	338.0
62.5°	395.9	481.3	503.5	463.2	408.7	365.0	348.9	338.6	333.8	322.1	308.1
65°	303.0	374.0	395.4	373.0	344.6	309.5	296.5	287.6	283.4	276.9	266.5
67.5°	227.8	279.6	303.1	287.3	277.1	254.9	246.6	241.8	238.1	233.6	225.1
70°	183.0	221.3	245.6	241.4	233.0	221.3	215.3	212.0	208.2	204.5	197.0
72.5°	147.1	173.5	196.3	198.4	191.5	189.1	183.9	182.4	180.2	175.8	171.7
75°	97.6	115.7	131.6	137.7	140.5	142.9	140.5	140.1	139.6	135.9	133.5
77.5°	63.9	73.7	83.7	94.1	98.5	101.7	102.5	104.2	102.9	100.9	99.8
80°	49.0	51.4	58.3	67.2	74.2	77.0	78.9	79.8	79.4	78.9	77.0
82.5°	35.6	37.5	40.8	47.1	53.0	57.6	58.8	58.6	59.6	59.8	58.3
85°	19.2	19.6	20.5	21.5	24.7	29.9	31.3	32.2	33.2	33.2	30.3
87.5°	10.9	9.7	9.7	9.0	9.5	9.3	11.0	12.2	13.2	12.3	12.9
90°	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3	4.4	7.3	10.3
92.5°	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5	34.6	36.6	38.6
95°	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4	81.4	83.6	85.6
97.5°	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9	142.5	144.0	145.6
100°	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9	184.7	186.5	188.2
102.5°	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3	232.4	233.4	234.5
105°	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6	303.2	303.7	304.3
107.5°	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4	385.8	386.1	386.5
110°	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0	437.7	438.2	438.8





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8	491.2	491.5	491.9
115°	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5	572.4	573.3	574.2
117.5°	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7	653.3	653.9	654.5
120°	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3	705.1	706.9	708.6
122.5°	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0	757.2	758.6	759.9
125°	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3	837.2	838.2	839.1
127.5°	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6	912.5	914.4	916.3
130°	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1	962.5	964.8	967.2
132.5°	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6	1011.9	1014.3	1016.7
135°	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1	1086.9	1088.7	1090.5
137.5°	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0	1156.5	1158.1	1159.6
140°	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5	1205.0	1206.5	1207.9
142.5°	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6	1249.0	1250.5	1252.1
145°	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4	1317.1	1317.6	1318.2
147.5°	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6	1377.7	1378.8	1379.9
150°	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6	1419.2	1419.8	1420.4
152.5°	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0	1453.8	1454.7	1455.5
155°	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6	1553.3	1552.9	1552.6
160°	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7	1582.1	1581.4	1580.8
162.5°	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5	1607.7	1606.8	1606.0
165°	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8	1640.9	1640.0	1639.1
167.5°	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5	1667.2	1666.1	1664.8
170°	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5	1682.3	1681.1	1679.9
172.5°	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3	1694.2	1692.9	1691.8
175°	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7	1706.6	1705.3	1704.1
177.5°	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8	1711.9	1710.9	1709.9
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1071.9	1067.0	1063.7	1056.2	1051.3	1046.2	1040.9	1044.3	1043.9	1043.5	1043.5
5°	1036.0	1025.2	1015.4	1002.8	994.9	985.1	977.6	976.7	978.6	972.0	968.2
7.5°	1000.3	985.6	971.7	957.8	943.1	931.3	923.9	920.4	915.7	911.7	907.5
10°	975.3	958.0	944.4	927.2	911.3	897.3	888.4	882.3	879.0	875.8	869.8
12.5°	949.5	932.6	915.3	895.8	880.7	864.4	857.8	851.0	844.7	841.1	832.8
15°	911.8	889.8	871.6	851.0	834.3	818.4	809.0	795.5	793.6	789.0	780.6
17.5°	874.0	850.2	825.0	809.9	790.9	774.4	760.1	755.5	742.2	737.2	729.9
20°	844.1	822.2	803.0	782.9	755.4	739.9	728.8	722.7	711.9	705.4	700.7
22.5°	818.3	796.0	773.8	750.5	727.7	710.4	702.2	692.8	687.0	677.8	672.7
25°	781.5	757.2	730.7	705.4	689.1	676.0	662.9	654.5	646.1	641.9	632.6
27.5°	738.8	713.4	688.5	669.4	649.3	636.4	624.6	617.1	607.0	599.9	594.8
30°	715.2	685.4	663.9	646.6	620.9	608.8	599.9	590.6	583.1	575.6	570.5
32.5°	688.0	660.7	640.3	618.9	599.2	586.0	574.5	566.3	559.9	552.9	547.7
35°	645.2	622.3	601.3	579.8	565.3	551.8	538.3	531.3	525.2	518.7	514.0
37.5°	606.5	585.1	565.2	544.8	526.9	515.9	505.0	499.6	491.4	487.1	482.2
40°	582.6	561.6	540.1	520.6	501.9	493.5	483.7	475.7	468.2	465.0	459.9
42.5°	556.5	535.5	517.4	496.2	481.0	469.6	460.5	451.8	446.2	441.5	438.5
45°	517.7	499.1	481.3	460.3	445.9	436.0	425.8	417.9	412.7	409.5	404.3
47.5°	480.1	461.5	443.4	425.1	411.1	399.9	389.7	384.1	377.3	373.3	369.9
50°	452.8	436.0	416.9	400.1	386.1	374.9	366.5	359.4	353.4	348.3	346.0
52.5°	427.8	409.9	393.3	377.7	362.9	350.3	342.6	335.2	330.6	324.8	322.0
55°	386.6	369.3	355.3	339.8	325.4	314.7	305.3	298.8	294.1	287.6	283.8
57.5°	347.8	332.3	315.6	302.2	287.3	278.2	270.5	261.6	255.9	250.8	247.2
60°	321.6	303.9	289.4	276.9	263.8	252.1	245.1	238.1	232.0	226.9	223.6
62.5°	294.4	278.9	265.2	251.5	239.5	229.3	221.2	215.3	210.0	206.7	203.5
65°	252.5	240.4	226.4	215.3	204.0	196.5	190.0	184.9	181.1	178.8	176.0
67.5°	214.1	202.3	190.1	179.1	171.7	165.9	161.7	157.2	155.3	152.4	150.5
70°	189.0	176.9	166.2	157.8	150.3	146.2	143.3	140.1	138.2	134.5	132.6
72.5°	161.8	153.0	145.3	138.4	132.4	128.6	125.0	121.0	118.1	113.9	112.1
75°	127.4	119.5	113.4	108.8	105.0	99.9	94.8	90.6	89.2	87.7	87.3
77.5°	94.4	89.3	85.0	81.1	76.4	72.7	71.5	70.6	70.3	69.6	69.6
80°	74.2	69.6	66.3	61.6	58.9	58.9	58.9	57.9	58.3	58.3	58.3
82.5°	55.2	50.9	49.1	47.4	46.9	47.3	47.3	47.4	47.2	47.9	47.5
85°	28.4	29.0	29.9	29.4	29.9	29.9	30.9	30.3	30.9	29.9	30.9
87.5°	13.1	14.9	16.1	17.2	18.4	18.8	19.4	19.6	20.2	20.5	20.7
90°	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7	35.8	37.1	38.0
92.5°	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5	54.5	55.5	55.7
95°	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9	103.1	104.2	104.9
97.5°	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5	159.8	161.2	161.8
100°	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5	200.4	201.3	202.0
102.5°	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8	247.7	248.6	249.0
105°	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4	317.4	317.4	317.6
107.5°	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8	394.7	395.7	395.9
110°	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8	445.9	447.2	447.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8	497.2	498.6	499.4
115°	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5	573.7	574.0	574.0
117.5°	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8	651.8	651.7	651.2
120°	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0	703.7	703.4	702.9
122.5°	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8	756.1	755.3	754.5
125°	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4	834.1	832.9	831.7
127.5°	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9	911.2	909.5	908.0
130°	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4	963.2	962.1	960.4
132.5°	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5	1013.1	1011.6	1010.1
135°	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5	1088.2	1087.1	1086.2
137.5°	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8	1161.5	1160.3	1159.0
140°	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.2
142.5°	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2	1255.8	1255.5	1254.5
145°	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5	1322.2	1322.0	1321.2
147.5°	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3	1385.3	1385.3	1384.4
150°	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0	1424.0	1424.0	1423.1
152.5°	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4	1459.8	1460.4	1459.8
155°	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1	1512.3	1513.5	1513.1
157.5°	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6	1556.8	1558.1	1557.9
160°	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0	1584.5	1585.9	1586.1
162.5°	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7	1610.3	1611.8	1611.6
165°	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4	1643.2	1644.9	1644.8
167.5°	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5
170°	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5
172.5°	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6	1695.5	1697.4	1697.3
175°	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9	1707.7	1709.5	1709.3
177.5°	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4	1712.8	1714.2	1714.1
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1039.0	1038.7	1039.0	1037.5	1039.0	1038.7	1039.0	1043.5	1043.5	1043.9	1044.3
5°	966.9	966.3	965.0	960.8	965.0	966.3	966.9	968.2	972.0	978.6	976.7
7.5°	903.8	903.2	899.1	899.2	899.1	903.2	903.8	907.5	911.7	915.7	920.4
10°	866.5	866.9	861.4	858.1	861.4	866.9	866.5	869.8	875.8	879.0	882.3
12.5°	830.3	828.1	823.6	820.0	823.6	828.1	830.3	832.8	841.1	844.7	851.0
15°	782.5	777.8	766.6	767.5	766.6	777.8	782.5	780.6	789.0	793.6	795.5
17.5°	726.1	722.7	722.5	716.0	722.5	722.7	726.1	729.9	737.2	742.2	755.5
20°	693.3	691.0	691.9	685.4	691.9	691.0	693.3	700.7	705.4	711.9	722.7
22.5°	667.5	665.2	661.3	659.2	661.3	665.2	667.5	672.7	677.8	687.0	692.8
25°	629.8	626.1	622.3	624.6	622.3	626.1	629.8	632.6	641.9	646.1	654.5
27.5°	592.1	589.2	585.5	585.1	585.5	589.2	592.1	594.8	599.9	607.0	617.1
30°	568.2	565.3	563.5	561.2	563.5	565.3	568.2	570.5	575.6	583.1	590.6
32.5°	543.9	543.3	539.9	539.5	539.9	543.3	543.9	547.7	552.9	559.9	566.3
35°	512.1	509.3	508.4	508.9	508.4	509.3	512.1	514.0	518.7	525.2	531.3
37.5°	482.0	478.2	476.5	474.9	476.5	478.2	482.0	482.2	487.1	491.4	499.6
40°	460.3	456.6	455.7	454.7	455.7	456.6	460.3	459.9	465.0	468.2	475.7
42.5°	436.0	434.5	434.0	432.3	434.0	434.5	436.0	438.5	441.5	446.2	451.8
45°	402.9	402.4	399.7	400.6	399.7	402.4	402.9	404.3	409.5	412.7	417.9
47.5°	368.0	366.0	364.0	365.2	364.0	366.0	368.0	369.9	373.3	377.3	384.1
50°	344.1	343.1	338.9	339.8	338.9	343.1	344.1	346.0	348.3	353.4	359.4
52.5°	320.2	316.6	315.0	314.5	315.0	316.6	320.2	322.0	324.8	330.6	335.2
55°	280.6	276.3	274.5	273.6	274.5	276.3	280.6	283.8	287.6	294.1	298.8
57.5°	241.7	240.6	239.2	240.1	239.2	240.6	241.7	247.2	250.8	255.9	261.6
60°	218.9	218.9	218.9	218.5	218.9	218.9	218.9	223.6	226.9	232.0	238.1
62.5°	201.4	200.3	199.9	200.5	199.9	200.3	201.4	203.5	206.7	210.0	215.3
65°	174.6	174.2	172.3	171.8	172.3	174.2	174.6	176.0	178.8	181.1	184.9
67.5°	149.3	147.6	147.0	146.4	147.0	147.6	149.3	150.5	152.4	155.3	157.2
70°	130.3	129.3	126.5	127.0	126.5	129.3	130.3	132.6	134.5	138.2	140.1
72.5°	109.7	108.8	108.3	107.5	108.3	108.8	109.7	112.1	113.9	118.1	121.0
75°	86.9	86.4	85.9	87.7	85.9	86.4	86.9	87.3	87.7	89.2	90.6
77.5°	69.6	69.6	69.8	69.1	69.8	69.6	69.6	69.6	69.6	70.3	70.6
80°	58.3	58.3	57.9	57.9	57.9	58.3	58.3	58.3	58.3	58.3	57.9
82.5°	46.8	47.2	47.4	46.7	47.4	47.2	46.8	47.5	47.9	47.2	47.4
85°	30.9	30.3	31.3	30.9	31.3	30.3	30.9	30.9	29.9	30.9	30.3
87.5°	21.5	20.9	21.0	21.5	21.0	20.9	21.5	20.7	20.5	20.2	19.6
90°	38.5	39.1	39.8	40.3	39.8	39.1	38.5	38.0	37.1	35.8	34.7
92.5°	55.4	55.0	54.7	54.3	54.7	55.0	55.4	55.7	55.5	54.5	53.5
95°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.2	103.1	101.9
97.5°	161.8	161.6	161.5	161.4	161.5	161.6	161.8	161.8	161.2	159.8	158.5
100°	202.6	203.2	203.8	204.4	203.8	203.2	202.6	202.0	201.3	200.4	199.5
102.5°	248.9	248.7	248.6	248.5	248.6	248.7	248.9	249.0	248.6	247.7	246.8
105°	318.3	318.9	319.4	320.0	319.4	318.9	318.3	317.6	317.4	317.4	317.4
107.5°	395.6	395.2	394.8	394.5	394.8	395.2	395.6	395.9	395.7	394.7	393.8
110°	446.8	446.3	445.7	445.1	445.7	446.3	446.8	447.5	447.2	445.9	444.8



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	499.3	499.1	499.0	498.8	499.0	499.1	499.3	499.4	498.6	497.2	495.8
115°	573.7	573.5	573.1	572.8	573.1	573.5	573.7	574.0	574.0	573.7	573.5
117.5°	650.3	649.5	648.7	647.8	648.7	649.5	650.3	651.2	651.7	651.8	651.8
120°	702.4	701.8	701.2	700.5	701.2	701.8	702.4	702.9	703.4	703.7	704.0
122.5°	753.7	752.8	752.0	751.1	752.0	752.8	753.7	754.5	755.3	756.1	756.8
125°	830.5	829.4	828.1	827.0	828.1	829.4	830.5	831.7	832.9	834.1	835.4
127.5°	906.7	905.3	903.9	902.5	903.9	905.3	906.7	908.0	909.5	911.2	912.9
130°	958.3	956.2	954.1	952.0	954.1	956.2	958.3	960.4	962.1	963.2	964.4
132.5°	1008.5	1006.9	1005.2	1003.6	1005.2	1006.9	1008.5	1010.1	1011.6	1013.1	1014.5
135°	1085.6	1084.9	1084.4	1083.8	1084.4	1084.9	1085.6	1086.2	1087.1	1088.2	1089.5
137.5°	1157.9	1156.8	1155.7	1154.5	1155.7	1156.8	1157.9	1159.0	1160.3	1161.5	1162.8
140°	1207.0	1205.0	1202.8	1200.8	1202.8	1205.0	1207.0	1209.2	1210.3	1210.7	1210.9
142.5°	1252.9	1251.3	1249.7	1248.1	1249.7	1251.3	1252.9	1254.5	1255.5	1255.8	1256.2
145°	1320.0	1318.8	1317.6	1316.4	1317.6	1318.8	1320.0	1321.2	1322.0	1322.2	1322.5
147.5°	1382.6	1380.8	1378.9	1377.2	1378.9	1380.8	1382.6	1384.4	1385.3	1385.3	1385.3
150°	1421.3	1419.5	1417.7	1415.9	1417.7	1419.5	1421.3	1423.1	1424.0	1424.0	1424.0
152.5°	1458.2	1456.7	1455.1	1453.6	1455.1	1456.7	1458.2	1459.8	1460.4	1459.8	1459.4
155°	1510.9	1508.9	1506.7	1504.7	1506.7	1508.9	1510.9	1513.1	1513.5	1512.3	1511.1
157.5°	1556.2	1554.5	1552.8	1551.2	1552.8	1554.5	1556.2	1557.9	1558.1	1556.8	1555.6
160°	1584.9	1583.7	1582.5	1581.3	1582.5	1583.7	1584.9	1586.1	1585.9	1584.5	1583.0
162.5°	1609.6	1607.8	1605.8	1603.9	1605.8	1607.8	1609.6	1611.6	1611.8	1610.3	1608.7
165°	1642.7	1640.7	1638.5	1636.5	1638.5	1640.7	1642.7	1644.8	1644.9	1643.2	1641.4
167.5°	1669.7	1667.9	1666.0	1664.1	1666.0	1667.9	1669.7	1671.5	1671.5	1669.7	1667.9
170°	1684.4	1682.3	1680.3	1678.1	1680.3	1682.3	1684.4	1686.5	1686.5	1684.4	1682.3
172.5°	1695.1	1693.1	1691.0	1688.9	1691.0	1693.1	1695.1	1697.3	1697.4	1695.5	1693.6
175°	1707.3	1705.1	1703.1	1701.0	1703.1	1705.1	1707.3	1709.3	1709.5	1707.7	1705.9
177.5°	1712.4	1710.7	1709.1	1707.4	1709.1	1710.7	1712.4	1714.1	1714.2	1712.8	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1040.9	1046.2	1051.3	1056.2	1063.7	1067.0	1071.9	1073.8	1079.3	1087.6	1094.3
5°	977.6	985.1	994.9	1002.8	1015.4	1025.2	1036.0	1046.2	1058.4	1075.7	1091.0
7.5°	923.9	931.3	943.1	957.8	971.7	985.6	1000.3	1014.3	1031.6	1056.4	1080.9
10°	888.4	897.3	911.3	927.2	944.4	958.0	975.3	993.0	1014.5	1042.9	1072.4
12.5°	857.8	864.4	880.7	895.8	915.3	932.6	949.5	970.2	994.7	1025.0	1060.4
15°	809.0	818.4	834.3	851.0	871.6	889.8	911.8	937.0	960.8	998.2	1041.1
17.5°	760.1	774.4	790.9	809.9	825.0	850.2	874.0	899.8	929.2	968.8	1015.8
20°	728.8	739.9	755.4	782.9	803.0	822.2	844.1	876.3	903.4	948.2	997.2
22.5°	702.2	710.4	727.7	750.5	773.8	796.0	818.3	849.0	882.4	925.1	978.1
25°	662.9	676.0	689.1	705.4	730.7	757.2	781.5	807.6	843.1	888.4	945.8
27.5°	624.6	636.4	649.3	669.4	688.5	713.4	738.8	768.7	806.8	854.7	913.0
30°	599.9	608.8	620.9	646.6	663.9	685.4	715.2	741.8	777.3	828.2	889.8
32.5°	574.5	586.0	599.2	618.9	640.3	660.7	688.0	716.8	753.0	803.2	866.3
35°	538.3	551.8	565.3	579.8	601.3	622.3	645.2	676.9	713.8	762.4	824.5
37.5°	505.0	515.9	526.9	544.8	565.2	585.1	606.5	637.8	672.5	725.0	781.9
40°	483.7	493.5	501.9	520.6	540.1	561.6	582.6	610.2	647.6	696.5	751.6
42.5°	460.5	469.6	481.0	496.2	517.4	535.5	556.5	582.6	617.7	667.4	715.8
45°	425.8	436.0	445.9	460.3	481.3	499.1	517.7	542.5	578.5	619.6	662.5
47.5°	389.7	399.9	411.1	425.1	443.4	461.5	480.1	502.0	534.8	575.2	604.1
50°	366.5	374.9	386.1	400.1	416.9	436.0	452.8	476.6	507.9	539.7	564.9
52.5°	342.6	350.3	362.9	377.7	393.3	409.9	427.8	448.3	476.5	506.4	526.5
55°	305.3	314.7	325.4	339.8	355.3	369.3	386.6	407.6	430.0	452.4	465.9
57.5°	270.5	278.2	287.3	302.2	315.6	332.3	347.8	364.2	384.9	401.8	410.6
60°	245.1	252.1	263.8	276.9	289.4	303.9	321.6	338.0	353.9	367.4	374.4
62.5°	221.2	229.3	239.5	251.5	265.2	278.9	294.4	308.1	322.1	333.8	338.6
65°	190.0	196.5	204.0	215.3	226.4	240.4	252.5	266.5	276.9	283.4	287.6
67.5°	161.7	165.9	171.7	179.1	190.1	202.3	214.1	225.1	233.6	238.1	241.8
70°	143.3	146.2	150.3	157.8	166.2	176.9	189.0	197.0	204.5	208.2	212.0
72.5°	125.0	128.6	132.4	138.4	145.3	153.0	161.8	171.7	175.8	180.2	182.4
75°	94.8	99.9	105.0	108.8	113.4	119.5	127.4	133.5	135.9	139.6	140.1
77.5°	71.5	72.7	76.4	81.1	85.0	89.3	94.4	99.8	100.9	102.9	104.2
80°	58.9	58.9	58.9	61.6	66.3	69.6	74.2	77.0	78.9	79.4	79.8
82.5°	47.3	47.3	46.9	47.4	49.1	50.9	55.2	58.3	59.8	59.6	58.6
85°	30.9	29.9	29.9	29.4	29.9	29.0	28.4	30.3	33.2	33.2	32.2
87.5°	19.4	18.8	18.4	17.2	16.1	14.9	13.1	12.9	12.3	13.2	12.2
90°	33.4	32.3	28.4	24.5	20.6	16.8	13.3	10.3	7.3	4.4	1.3
92.5°	52.6	51.6	49.4	47.2	45.0	42.8	40.7	38.6	36.6	34.6	32.5
95°	100.7	99.5	97.1	94.7	92.3	90.0	87.7	85.6	83.6	81.4	79.4
97.5°	157.1	155.7	154.0	152.2	150.5	148.7	147.1	145.6	144.0	142.5	140.9
100°	198.6	197.7	196.2	194.7	193.1	191.7	190.0	188.2	186.5	184.7	182.9
102.5°	245.9	245.0	243.0	241.0	239.1	237.1	235.6	234.5	233.4	232.4	231.3
105°	317.4	317.4	314.7	311.9	309.2	306.6	305.0	304.3	303.7	303.2	302.6
107.5°	392.8	391.8	390.7	389.7	388.6	387.5	386.8	386.5	386.1	385.8	385.4
110°	443.6	442.4	441.8	441.2	440.6	440.0	439.4	438.8	438.2	437.7	437.0



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	494.4	492.9	492.8	492.7	492.6	492.5	492.2	491.9	491.5	491.2	490.8
115°	573.1	572.8	573.5	574.0	574.6	575.2	575.1	574.2	573.3	572.4	571.5
117.5°	651.8	651.9	652.6	653.4	654.2	655.0	655.1	654.5	653.9	653.3	652.7
120°	704.3	704.6	706.1	707.6	709.1	710.6	710.4	708.6	706.9	705.1	703.3
122.5°	757.6	758.4	759.2	759.9	760.7	761.5	761.3	759.9	758.6	757.2	756.0
125°	836.5	837.8	838.3	838.9	839.5	840.1	840.0	839.1	838.2	837.2	836.3
127.5°	914.5	916.2	916.9	917.6	918.2	918.9	918.3	916.3	914.4	912.5	910.6
130°	965.6	966.8	967.7	968.6	969.5	970.4	969.6	967.2	964.8	962.5	960.1
132.5°	1015.9	1017.4	1018.0	1018.7	1019.3	1020.0	1019.1	1016.7	1014.3	1011.9	1009.6
135°	1090.7	1091.9	1092.2	1092.4	1092.8	1093.1	1092.3	1090.5	1088.7	1086.9	1085.1
137.5°	1164.0	1165.3	1164.5	1163.7	1163.0	1162.2	1161.0	1159.6	1158.1	1156.5	1155.0
140°	1211.2	1211.6	1211.2	1210.9	1210.7	1210.3	1209.4	1207.9	1206.5	1205.0	1203.5
142.5°	1256.4	1256.7	1256.2	1255.6	1255.1	1254.5	1253.6	1252.1	1250.5	1249.0	1247.6
145°	1322.9	1323.1	1322.2	1321.3	1320.4	1319.6	1318.8	1318.2	1317.6	1317.1	1316.4
147.5°	1385.3	1385.3	1384.4	1383.6	1382.8	1381.9	1381.0	1379.9	1378.8	1377.7	1376.6
150°	1424.0	1424.0	1423.3	1422.8	1422.2	1421.6	1421.0	1420.4	1419.8	1419.2	1418.6
152.5°	1458.9	1458.4	1458.0	1457.7	1457.3	1457.0	1456.3	1455.5	1454.7	1453.8	1453.0
155°	1509.9	1508.7	1508.4	1508.1	1507.8	1507.5	1507.3	1507.3	1507.3	1507.3	1507.3
157.5°	1554.3	1553.1	1552.8	1552.6	1552.4	1552.1	1552.2	1552.6	1552.9	1553.3	1553.6
160°	1581.4	1579.9	1579.9	1579.9	1579.9	1579.9	1580.3	1580.8	1581.4	1582.1	1582.7
162.5°	1607.3	1605.8	1605.5	1605.3	1605.1	1604.8	1605.2	1606.0	1606.8	1607.7	1608.5
165°	1639.6	1637.8	1637.8	1637.8	1637.8	1637.8	1638.3	1639.1	1640.0	1640.9	1641.8
167.5°	1666.0	1664.1	1663.9	1663.7	1663.4	1663.2	1663.7	1664.8	1666.1	1667.2	1668.5
170°	1680.3	1678.1	1678.1	1678.1	1678.1	1678.1	1678.7	1679.9	1681.1	1682.3	1683.5
172.5°	1691.8	1690.0	1690.0	1690.0	1690.0	1690.0	1690.6	1691.8	1692.9	1694.2	1695.3
175°	1704.1	1702.4	1702.4	1702.4	1702.4	1702.4	1702.9	1704.1	1705.3	1706.6	1707.7
177.5°	1709.9	1708.5	1708.5	1708.5	1708.5	1708.5	1709.0	1709.9	1710.9	1711.9	1712.8
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1096.5	1100.6	1105.9	1113.7	1119.7	1124.9	1126.1	1127.6	1131.3	1137.6	1142.5
5°	1103.7	1114.4	1131.7	1148.4	1166.7	1181.6	1195.6	1205.4	1214.8	1234.4	1250.3
7.5°	1101.4	1125.3	1152.4	1182.6	1213.1	1242.7	1270.2	1294.7	1319.1	1347.7	1380.3
10°	1099.9	1127.9	1164.3	1203.1	1245.5	1287.1	1327.3	1358.5	1395.0	1427.6	1469.2
12.5°	1092.8	1133.2	1176.7	1226.3	1278.4	1326.3	1379.2	1422.5	1464.1	1511.3	1559.6
15°	1083.6	1132.6	1187.7	1253.5	1332.8	1390.8	1444.9	1520.1	1571.5	1622.8	1691.8
17.5°	1066.7	1126.5	1195.3	1280.9	1347.1	1424.9	1506.4	1565.8	1635.0	1707.3	1769.9
20°	1053.2	1122.8	1199.8	1283.9	1368.3	1452.9	1531.8	1602.7	1674.2	1757.7	1809.1
22.5°	1039.8	1108.6	1188.7	1277.9	1368.7	1457.7	1547.0	1630.3	1710.7	1795.1	1860.6
25°	1011.2	1092.9	1179.7	1270.8	1360.4	1458.5	1564.9	1657.8	1757.2	1844.1	1906.2
27.5°	982.2	1057.1	1143.6	1235.9	1335.6	1451.4	1576.6	1682.3	1781.9	1844.1	1863.6
30°	956.1	1035.5	1114.8	1208.7	1316.5	1445.8	1578.9	1699.8	1781.5	1808.6	1788.5
32.5°	929.6	1001.5	1080.1	1176.2	1290.8	1432.0	1581.9	1689.3	1738.6	1717.9	1636.1
35°	882.8	947.7	1023.8	1120.0	1251.6	1424.4	1569.6	1642.4	1630.2	1513.5	1359.5
37.5°	832.8	885.6	956.1	1056.7	1211.1	1394.0	1516.5	1527.2	1422.2	1243.0	1065.1
40°	793.2	840.8	913.2	1018.2	1179.7	1364.1	1463.1	1419.7	1256.8	1057.4	909.0
42.5°	754.7	794.9	864.6	977.9	1149.9	1323.5	1383.6	1289.0	1101.0	912.5	777.5
45°	689.6	727.4	797.4	913.6	1088.7	1245.5	1237.6	1073.3	885.2	733.4	621.3
47.5°	627.8	660.8	726.5	845.2	1016.9	1128.8	1054.6	879.8	720.1	598.4	518.5
50°	584.1	616.7	682.1	799.2	959.4	1041.1	935.1	766.6	620.5	519.6	456.1
52.5°	542.2	574.2	633.9	748.1	889.9	938.8	824.9	668.7	546.9	459.9	405.3
55°	483.7	507.9	561.6	670.8	776.9	788.1	672.7	542.0	441.7	380.9	343.6
57.5°	424.0	444.9	497.9	585.0	659.3	653.5	544.2	431.1	363.5	318.4	291.3
60°	385.1	405.7	452.4	527.1	583.1	563.5	463.2	372.1	314.1	281.1	259.6
62.5°	348.9	365.0	408.7	463.2	503.5	481.3	395.9	320.6	274.6	246.6	229.7
65°	296.5	309.5	344.6	373.0	395.4	374.0	303.0	250.7	217.6	198.0	186.3
67.5°	246.6	254.9	277.1	287.3	303.1	279.6	227.8	192.8	174.0	157.4	149.3
70°	215.3	221.3	233.0	241.4	245.6	221.3	183.0	157.3	141.4	129.7	124.7
72.5°	183.9	189.1	191.5	198.4	196.3	173.5	147.1	126.7	115.3	107.4	100.8
75°	140.5	142.9	140.5	137.7	131.6	115.7	97.6	87.3	78.9	75.2	72.9
77.5°	102.5	101.7	98.5	94.1	83.7	73.7	63.9	60.5	56.9	54.9	54.0
80°	78.9	77.0	74.2	67.2	58.3	51.4	49.0	46.7	45.3	43.0	42.4
82.5°	58.8	57.6	53.0	47.1	40.8	37.5	35.6	34.8	33.3	32.1	32.0
85°	31.3	29.9	24.7	21.5	20.5	19.6	19.2	19.2	17.3	16.8	16.8
87.5°	11.0	9.3	9.5	9.0	9.7	9.7	10.9	10.9	11.3	11.9	11.4
90°	4.4	7.3	10.3	13.3	16.8	20.6	24.5	28.4	32.3	33.4	34.7
92.5°	34.6	36.6	38.6	40.7	42.8	45.0	47.2	49.4	51.6	52.6	53.5
95°	81.4	83.6	85.6	87.7	90.0	92.3	94.7	97.1	99.5	100.7	101.9
97.5°	142.5	144.0	145.6	147.1	148.7	150.5	152.2	154.0	155.7	157.1	158.5
100°	184.7	186.5	188.2	190.0	191.7	193.1	194.7	196.2	197.7	198.6	199.5
102.5°	232.4	233.4	234.5	235.6	237.1	239.1	241.0	243.0	245.0	245.9	246.8
105°	303.2	303.7	304.3	305.0	306.6	309.2	311.9	314.7	317.4	317.4	317.4
107.5°	385.8	386.1	386.5	386.8	387.5	388.6	389.7	390.7	391.8	392.8	393.8
110°	437.7	438.2	438.8	439.4	440.0	440.6	441.2	441.8	442.4	443.6	444.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	491.2	491.5	491.9	492.2	492.5	492.6	492.7	492.8	492.9	494.4	495.8
115°	572.4	573.3	574.2	575.1	575.2	574.6	574.0	573.5	572.8	573.1	573.5
117.5°	653.3	653.9	654.5	655.1	655.0	654.2	653.4	652.6	651.9	651.8	651.8
120°	705.1	706.9	708.6	710.4	710.6	709.1	707.6	706.1	704.6	704.3	704.0
122.5°	757.2	758.6	759.9	761.3	761.5	760.7	759.9	759.2	758.4	757.6	756.8
125°	837.2	838.2	839.1	840.0	840.1	839.5	838.9	838.3	837.8	836.5	835.4
127.5°	912.5	914.4	916.3	918.3	918.9	918.2	917.6	916.9	916.2	914.5	912.9
130°	962.5	964.8	967.2	969.6	970.4	969.5	968.6	967.7	966.8	965.6	964.4
132.5°	1011.9	1014.3	1016.7	1019.1	1020.0	1019.3	1018.7	1018.0	1017.4	1015.9	1014.5
135°	1086.9	1088.7	1090.5	1092.3	1093.1	1092.8	1092.4	1092.2	1091.9	1090.7	1089.5
137.5°	1156.5	1158.1	1159.6	1161.0	1162.2	1163.0	1163.7	1164.5	1165.3	1164.0	1162.8
140°	1205.0	1206.5	1207.9	1209.4	1210.3	1210.7	1210.9	1211.2	1211.6	1211.2	1210.9
142.5°	1249.0	1250.5	1252.1	1253.6	1254.5	1255.1	1255.6	1256.2	1256.7	1256.4	1256.2
145°	1317.1	1317.6	1318.2	1318.8	1319.6	1320.4	1321.3	1322.2	1323.1	1322.9	1322.5
147.5°	1377.7	1378.8	1379.9	1381.0	1381.9	1382.8	1383.6	1384.4	1385.3	1385.3	1385.3
150°	1419.2	1419.8	1420.4	1421.0	1421.6	1422.2	1422.8	1423.3	1424.0	1424.0	1424.0
152.5°	1453.8	1454.7	1455.5	1456.3	1457.0	1457.3	1457.7	1458.0	1458.4	1458.9	1459.4
155°	1507.3	1507.3	1507.3	1507.3	1507.5	1507.8	1508.1	1508.4	1508.7	1509.9	1511.1
157.5°	1553.3	1552.9	1552.6	1552.2	1552.1	1552.4	1552.6	1552.8	1553.1	1554.3	1555.6
160°	1582.1	1581.4	1580.8	1580.3	1579.9	1579.9	1579.9	1579.9	1579.9	1581.4	1583.0
162.5°	1607.7	1606.8	1606.0	1605.2	1604.8	1605.1	1605.3	1605.5	1605.8	1607.3	1608.7
165°	1640.9	1640.0	1639.1	1638.3	1637.8	1637.8	1637.8	1637.8	1637.8	1639.6	1641.4
167.5°	1667.2	1666.1	1664.8	1663.7	1663.2	1663.4	1663.7	1663.9	1664.1	1666.0	1667.9
170°	1682.3	1681.1	1679.9	1678.7	1678.1	1678.1	1678.1	1678.1	1678.1	1680.3	1682.3
172.5°	1694.2	1692.9	1691.8	1690.6	1690.0	1690.0	1690.0	1690.0	1690.0	1691.8	1693.6
175°	1706.6	1705.3	1704.1	1702.9	1702.4	1702.4	1702.4	1702.4	1702.4	1704.1	1705.9
177.5°	1711.9	1710.9	1709.9	1709.0	1708.5	1708.5	1708.5	1708.5	1708.5	1709.9	1711.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6	1090.6
2.5°	1150.3	1150.3	1151.8	1157.4	1158.2	1163.1	1161.5
5°	1264.3	1273.1	1276.4	1290.4	1298.8	1302.5	1295.0
7.5°	1403.6	1428.6	1440.5	1455.1	1468.1	1472.0	1461.8
10°	1505.1	1531.2	1553.3	1566.7	1579.4	1587.8	1598.5
12.5°	1603.4	1635.5	1656.4	1675.4	1688.5	1699.1	1700.8
15°	1710.1	1758.6	1795.5	1822.6	1836.1	1843.2	1840.3
17.5°	1817.8	1862.8	1889.0	1916.6	1935.4	1936.4	1936.9
20°	1878.7	1922.5	1952.8	1973.4	1994.4	1993.5	1998.1
22.5°	1919.3	1953.9	1977.1	1992.1	1999.3	1995.7	1996.6
25°	1938.4	1948.7	1944.5	1920.7	1914.6	1892.7	1896.4
27.5°	1840.1	1791.6	1741.3	1676.8	1625.8	1585.1	1587.2
30°	1706.8	1621.0	1522.9	1440.7	1367.0	1346.4	1302.5
32.5°	1520.5	1391.6	1276.8	1200.2	1136.8	1119.7	1081.5
35°	1204.5	1079.3	961.3	890.3	862.3	823.0	822.6
37.5°	936.2	826.1	763.6	710.3	682.4	658.7	656.4
40°	787.6	701.7	654.5	616.3	588.7	571.0	566.8
42.5°	683.8	614.3	570.2	546.4	525.2	516.0	509.3
45°	558.4	511.7	480.9	459.4	449.6	442.6	438.8
47.5°	467.1	435.8	414.7	400.5	392.5	385.1	387.1
50°	417.4	391.7	376.3	362.7	356.7	351.5	352.0
52.5°	377.4	354.4	341.9	332.2	324.6	320.9	319.1
55°	320.3	305.8	293.2	286.1	282.0	276.9	275.4
57.5°	273.2	262.0	251.7	243.8	242.7	237.8	238.4
60°	241.8	232.5	224.1	219.9	216.6	212.4	213.8
62.5°	216.1	208.2	200.5	197.1	193.9	190.7	191.5
65°	176.9	169.4	164.8	162.9	161.5	160.2	158.7
67.5°	141.0	136.4	133.5	129.5	126.6	126.2	124.8
70°	118.6	112.5	107.4	102.3	100.9	100.4	100.9
72.5°	95.1	91.2	89.8	87.3	87.0	85.8	86.7
75°	71.4	70.0	69.1	67.2	67.2	67.2	67.2
77.5°	52.7	51.8	51.3	50.9	50.4	49.8	49.7
80°	41.1	40.6	39.7	39.7	39.2	39.7	39.2
82.5°	31.0	30.9	30.0	30.0	29.5	29.2	29.5
85°	15.9	15.4	16.3	15.4	15.9	15.0	15.9
87.5°	11.7	11.9	11.7	11.9	11.6	12.4	11.8
90°	35.8	37.1	38.0	38.5	39.1	39.8	40.3
92.5°	54.5	55.5	55.7	55.4	55.0	54.7	54.3
95°	103.1	104.2	104.9	104.9	104.9	104.9	104.9
97.5°	159.8	161.2	161.8	161.8	161.6	161.5	161.4
100°	200.4	201.3	202.0	202.6	203.2	203.8	204.4
102.5°	247.7	248.6	249.0	248.9	248.7	248.6	248.5
105°	317.4	317.4	317.6	318.3	318.9	319.4	320.0
107.5°	394.7	395.7	395.9	395.6	395.2	394.8	394.5
110°	445.9	447.2	447.5	446.8	446.3	445.7	445.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	497.2	498.6	499.4	499.3	499.1	499.0	498.8
115°	573.7	574.0	574.0	573.7	573.5	573.1	572.8
117.5°	651.8	651.7	651.2	650.3	649.5	648.7	647.8
120°	703.7	703.4	702.9	702.4	701.8	701.2	700.5
122.5°	756.1	755.3	754.5	753.7	752.8	752.0	751.1
125°	834.1	832.9	831.7	830.5	829.4	828.1	827.0
127.5°	911.2	909.5	908.0	906.7	905.3	903.9	902.5
130°	963.2	962.1	960.4	958.3	956.2	954.1	952.0
132.5°	1013.1	1011.6	1010.1	1008.5	1006.9	1005.2	1003.6
135°	1088.2	1087.1	1086.2	1085.6	1084.9	1084.4	1083.8
137.5°	1161.5	1160.3	1159.0	1157.9	1156.8	1155.7	1154.5
140°	1210.7	1210.3	1209.2	1207.0	1205.0	1202.8	1200.8
142.5°	1255.8	1255.5	1254.5	1252.9	1251.3	1249.7	1248.1
145°	1322.2	1322.0	1321.2	1320.0	1318.8	1317.6	1316.4
147.5°	1385.3	1385.3	1384.4	1382.6	1380.8	1378.9	1377.2
150°	1424.0	1424.0	1423.1	1421.3	1419.5	1417.7	1415.9
152.5°	1459.8	1460.4	1459.8	1458.2	1456.7	1455.1	1453.6
155°	1512.3	1513.5	1513.1	1510.9	1508.9	1506.7	1504.7
157.5°	1556.8	1558.1	1557.9	1556.2	1554.5	1552.8	1551.2
160°	1584.5	1585.9	1586.1	1584.9	1583.7	1582.5	1581.3
162.5°	1610.3	1611.8	1611.6	1609.6	1607.8	1605.8	1603.9
165°	1643.2	1644.9	1644.8	1642.7	1640.7	1638.5	1636.5
167.5°	1669.7	1671.5	1671.5	1669.7	1667.9	1666.0	1664.1
170°	1684.4	1686.5	1686.5	1684.4	1682.3	1680.3	1678.1
172.5°	1695.5	1697.4	1697.3	1695.1	1693.1	1691.0	1688.9
175°	1707.7	1709.5	1709.3	1707.3	1705.1	1703.1	1701.0
177.5°	1712.8	1714.2	1714.1	1712.4	1710.7	1709.1	1707.4
180°	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7	1711.7

(END OF REPORT)