

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: P332175-830

Luminaire Tested: **S123DIW-S775D1535U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332175-830  
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-S775D1535U830-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8092.2 lumens  
Efficiency: N/A  
Efficacy: 118.8 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: Semi-Indirect

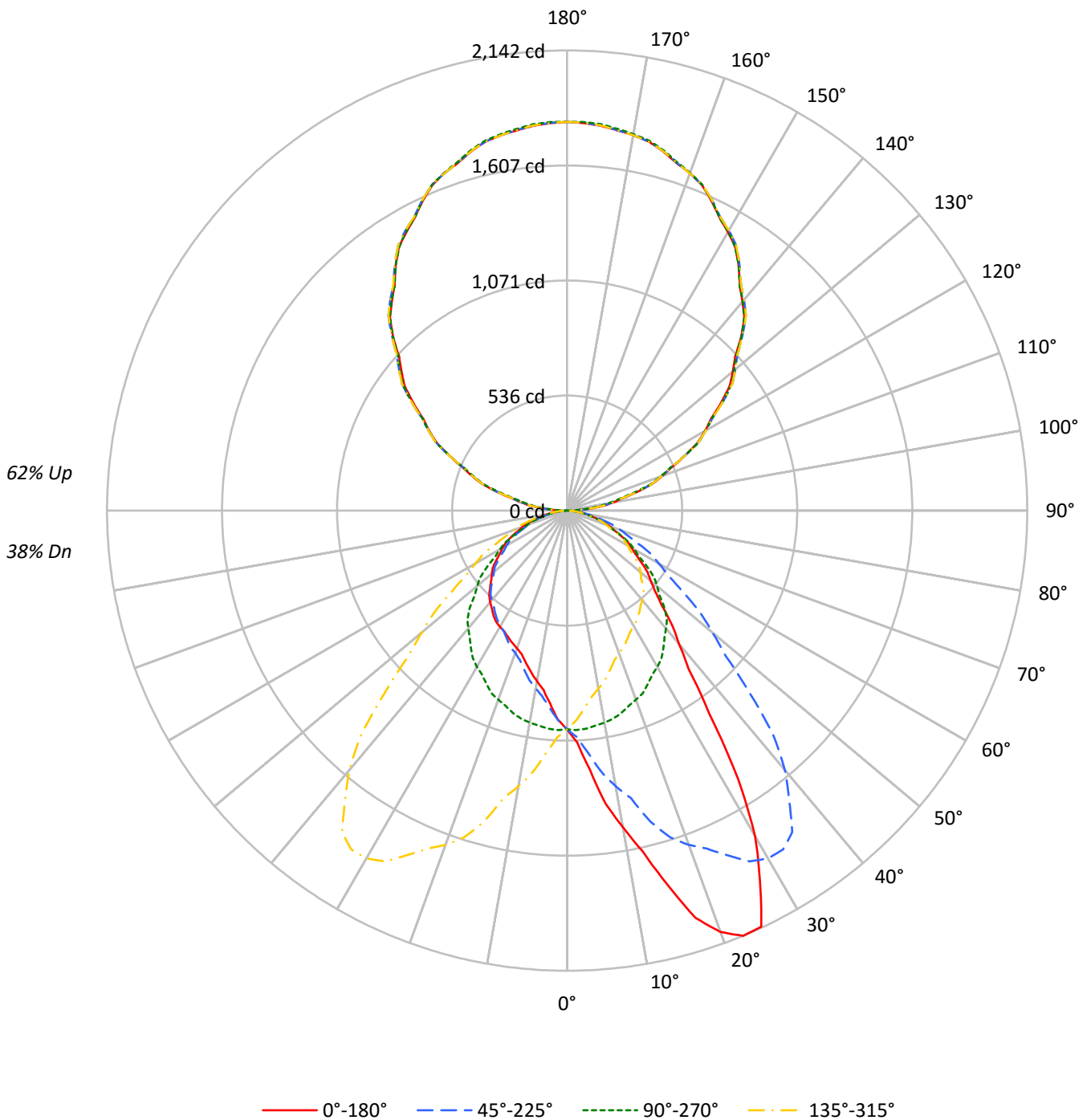
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	36	34	33	27
3	79	70	63	58	72	64	58	53	52	48	44	42	39	36	32	30	28	23
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	90°	180°	270°
0°	10962	10962	10962	10962
5°	13073	11010	9757	11010
10°	16363	10954	8813	10954
15°	20070	10866	8204	10866
20°	23909	10727	7811	10727
25°	25388	10561	7725	10561
30°	21760	10438	7764	10438
35°	15134	10264	7846	10264
40°	11398	10061	7821	10061
45°	9464	9758	7722	9758
50°	8477	9138	7651	9138
55°	7927	8473	7557	8473
60°	7436	7776	7479	7776
65°	6989	7088	7238	7088
70°	6552	6304	6892	6304
75°	5868	5519	6317	5519
80°	5139	4525	5442	4525
85°	4026	3298	3656	3298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.2
10°-20°	321.7	4.0
20°-30°	539.9	6.7
30°-40°	611.3	7.6
40°-50°	548.2	6.8
50°-60°	442.4	5.5
60°-70°	308.3	3.8
70°-80°	162.0	2.0
80°-90°	45.0	0.6
90°-100°	117.9	1.5
100°-110°	352.8	4.4
110°-120°	600.0	7.4
120°-130°	789.3	9.8
130°-140°	887.1	11.0
140°-150°	872.0	10.8
150°-160°	734.1	9.1
160°-170°	488.7	6.0
170°-180°	171.1	2.1
0°-30°	961.9	11.9
0°-40°	1573.3	19.4
0°-60°	2563.9	31.7
0°-90°	3079.2	38.1
90°-120°	1070.7	13.2
90°-150°	3619.1	44.7
90°-180°	5013.0	61.9
0°-180°	8092.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1018	1018	1018	1018	1018	
5°	1210	1019	903	1019	1210	125
15°	1801	975	736	975	1801	520
25°	2138	889	650	889	2138	937
35°	1152	781	597	781	1152	748
45°	622	641	507	641	622	492
55°	422	452	403	452	422	379
65°	274	278	284	278	274	273
75°	141	133	152	133	141	151
85°	33	27	30	27	33	40
90°	43	1	43	1	43	22
95°	111	84	111	84	111	114
105°	338	320	338	320	338	359
115°	606	604	606	604	606	599
125°	874	884	874	884	874	781
135°	1146	1147	1146	1147	1146	881
145°	1392	1392	1392	1392	1392	869
155°	1590	1593	1590	1593	1590	732
165°	1730	1735	1730	1735	1730	488
175°	1798	1805	1798	1805	1798	171
180°	1809	1809	1809	1809	1809	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1080.8	1080.1	1078.1	1079.7	1076.5	1072.1	1071.8	1067.8	1056.3	1055.6	1052.4
5°	1209.9	1206.0	1205.5	1204.9	1198.1	1188.7	1170.9	1169.4	1145.8	1133.9	1119.6
7.5°	1377.1	1379.1	1372.0	1365.6	1344.5	1330.6	1311.5	1287.1	1258.1	1228.6	1208.9
10°	1497.1	1513.3	1493.2	1479.3	1466.5	1442.3	1414.2	1379.1	1344.2	1303.2	1272.1
12.5°	1625.8	1633.8	1629.8	1616.7	1596.8	1560.0	1510.1	1471.5	1439.3	1371.0	1343.5
15°	1801.0	1831.2	1811.9	1767.5	1768.5	1733.4	1668.3	1596.8	1558.8	1499.0	1417.7
17.5°	1987.7	1991.5	1983.3	1946.4	1921.7	1873.5	1813.4	1744.8	1667.8	1595.5	1509.2
20°	2087.3	2084.2	2067.0	2047.8	2005.4	1967.8	1902.2	1825.7	1727.0	1656.0	1561.7
22.5°	2142.5	2137.6	2129.4	2113.3	2077.9	2037.7	1978.8	1895.2	1801.3	1703.4	1594.5
25°	2137.6	2144.0	2144.9	2140.5	2128.2	2104.0	2057.7	1991.0	1897.2	1771.4	1657.9
27.5°	1944.2	1953.2	1979.6	2003.0	2029.1	2055.8	2052.2	2019.1	1949.7	1841.2	1702.3
30°	1750.7	1731.0	1779.8	1841.5	1883.5	1957.5	1998.9	2001.4	1962.4	1869.2	1733.9
32.5°	1482.2	1504.0	1525.6	1601.5	1693.2	1776.3	1858.8	1925.2	1932.8	1870.8	1752.5
35°	1151.7	1178.8	1218.3	1257.7	1356.5	1441.3	1586.4	1712.7	1813.4	1826.7	1754.2
37.5°	928.0	941.5	966.5	1006.0	1070.5	1171.2	1283.5	1443.1	1588.9	1697.4	1702.1
40°	811.2	815.2	843.3	873.4	925.7	1008.6	1109.7	1250.8	1425.5	1577.1	1640.2
42.5°	723.6	732.3	744.2	773.1	814.7	877.1	971.2	1087.8	1247.9	1422.3	1545.9
45°	621.7	631.6	639.0	658.3	687.9	729.8	795.4	902.0	1023.9	1204.0	1370.3
47.5°	554.4	555.3	560.7	575.2	595.4	626.9	673.3	741.8	853.7	999.7	1170.4
50°	506.2	514.2	516.1	527.4	543.3	566.5	604.9	663.2	755.0	883.3	1040.2
52.5°	472.3	474.7	480.2	488.4	502.2	520.3	553.6	599.3	671.3	780.6	924.9
55°	422.4	422.4	427.8	434.2	442.1	458.4	480.6	514.2	568.9	653.8	773.3
57.5°	376.2	378.6	382.5	384.5	391.2	402.0	420.5	446.0	486.8	552.1	647.1
60°	345.4	349.9	349.4	353.3	359.2	367.6	383.4	404.2	440.6	492.9	572.9
62.5°	318.6	318.3	318.2	322.9	328.9	336.9	347.0	365.0	396.1	442.4	510.5
65°	274.4	273.3	276.8	279.7	281.7	287.7	295.6	311.3	332.1	366.6	419.4
67.5°	235.1	232.2	234.1	235.1	238.5	243.1	250.4	260.2	276.7	304.4	344.2
70°	208.2	205.8	205.3	206.2	209.2	212.6	218.1	227.4	242.8	264.9	294.1
72.5°	180.6	178.9	178.8	181.0	182.4	184.6	188.5	197.1	209.2	225.9	253.1
75°	141.1	141.1	141.1	141.6	143.1	145.1	148.1	152.5	161.8	173.7	191.9
77.5°	105.8	105.7	105.1	105.0	107.2	108.1	108.8	112.9	118.1	126.1	139.4
80°	82.9	80.4	81.4	82.9	83.9	84.4	85.9	86.8	91.3	95.8	105.1
82.5°	61.5	59.5	59.7	62.0	62.2	62.7	64.2	65.5	67.2	71.3	76.3
85°	32.6	32.6	33.1	33.1	33.6	33.1	34.5	35.1	35.1	37.5	40.4
87.5°	20.4	19.4	19.7	20.0	19.5	19.7	19.8	20.0	20.1	20.3	19.8
90°	42.6	42.0	41.4	40.7	40.2	39.2	37.9	36.7	35.3	34.1	30.0
92.5°	57.4	57.8	58.2	58.5	58.9	58.6	57.6	56.6	55.6	54.6	52.2
95°	110.8	110.8	110.8	110.8	110.8	110.2	109.0	107.7	106.4	105.2	102.6
97.5°	170.6	170.7	170.8	171.0	171.1	170.4	168.9	167.5	166.1	164.6	162.8
100°	216.0	215.4	214.8	214.1	213.5	212.7	211.8	210.8	209.9	209.0	207.4
102.5°	262.7	262.8	262.9	263.1	263.2	262.8	261.8	260.9	260.0	258.9	256.8
105°	338.3	337.6	337.1	336.4	335.7	335.5	335.5	335.5	335.5	335.5	332.6
107.5°	417.0	417.4	417.7	418.1	418.5	418.2	417.2	416.2	415.2	414.2	413.0
110°	470.4	471.1	471.7	472.3	473.0	472.7	471.4	470.1	468.9	467.6	466.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	527.3	527.4	527.5	527.7	527.8	527.1	525.6	524.1	522.5	521.0	520.9
115°	605.5	605.8	606.1	606.4	606.7	606.7	606.4	606.1	605.8	605.5	606.1
117.5°	684.8	685.7	686.5	687.4	688.3	688.8	688.9	688.9	689.0	689.1	689.8
120°	740.5	741.1	741.8	742.4	743.0	743.5	743.9	744.1	744.4	744.8	746.3
122.5°	793.9	794.8	795.7	796.6	797.5	798.3	799.2	799.9	800.8	801.6	802.5
125°	874.1	875.3	876.7	877.9	879.1	880.4	881.7	883.0	884.2	885.5	886.1
127.5°	953.9	955.5	956.9	958.4	959.8	961.4	963.2	965.0	966.7	968.5	969.2
130°	1006.3	1008.5	1010.7	1013.0	1015.1	1016.9	1018.1	1019.4	1020.7	1021.9	1022.8
132.5°	1060.8	1062.5	1064.3	1066.0	1067.7	1069.3	1070.8	1072.3	1073.8	1075.3	1076.0
135°	1145.6	1146.2	1146.8	1147.5	1148.1	1149.1	1150.3	1151.6	1152.8	1154.1	1154.4
137.5°	1220.3	1221.5	1222.8	1223.9	1225.1	1226.4	1227.8	1229.1	1230.4	1231.7	1230.9
140°	1269.2	1271.4	1273.7	1275.8	1278.1	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3
142.5°	1319.3	1321.0	1322.7	1324.4	1326.1	1327.1	1327.4	1327.8	1328.0	1328.3	1327.8
145°	1391.5	1392.7	1394.0	1395.2	1396.5	1397.3	1397.6	1397.9	1398.3	1398.5	1397.6
147.5°	1455.7	1457.5	1459.5	1461.4	1463.3	1464.2	1464.2	1464.2	1464.2	1464.2	1463.3
150°	1496.7	1498.5	1500.4	1502.3	1504.2	1505.1	1505.1	1505.1	1505.1	1505.1	1504.5
152.5°	1536.4	1538.0	1539.7	1541.3	1543.0	1543.6	1543.0	1542.6	1542.1	1541.5	1541.2
155°	1590.4	1592.6	1594.9	1597.0	1599.3	1599.8	1598.5	1597.2	1596.0	1594.7	1594.4
157.5°	1639.6	1641.3	1643.1	1644.9	1646.7	1646.9	1645.6	1644.3	1642.9	1641.6	1641.3
160°	1671.4	1672.7	1674.0	1675.3	1676.5	1676.3	1674.8	1673.2	1671.6	1670.0	1670.0
162.5°	1695.4	1697.3	1699.4	1701.4	1703.5	1703.6	1702.0	1700.4	1698.9	1697.3	1697.0
165°	1729.8	1731.9	1734.2	1736.4	1738.6	1738.7	1736.8	1734.9	1733.1	1731.2	1731.2
167.5°	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8	1764.9	1762.9	1761.0	1759.0	1758.8
170°	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6	1780.5	1778.2	1776.0	1773.8	1773.8
172.5°	1785.2	1787.3	1789.6	1791.8	1794.0	1794.1	1792.2	1790.2	1788.3	1786.3	1786.3
175°	1798.0	1800.2	1802.3	1804.6	1806.8	1806.9	1805.1	1803.2	1801.3	1799.4	1799.4
177.5°	1804.8	1806.6	1808.3	1810.1	1811.8	1811.9	1810.4	1808.9	1807.4	1805.9	1805.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1050.0	1046.9	1043.7	1038.2	1033.5	1026.7	1024.7	1022.4	1015.3	1009.0	1004.3
5°	1114.2	1102.3	1085.1	1069.3	1056.5	1039.2	1029.4	1019.0	1004.2	990.8	980.0
7.5°	1181.3	1158.0	1131.1	1102.1	1075.1	1049.0	1028.0	1009.3	988.5	968.9	953.7
10°	1234.5	1201.0	1163.6	1123.0	1088.5	1055.0	1026.8	1002.2	975.5	952.3	933.1
12.5°	1295.3	1245.7	1193.9	1144.8	1103.9	1057.3	1023.3	991.9	961.7	933.8	912.2
15°	1367.3	1304.2	1242.9	1175.4	1113.2	1055.0	1014.6	975.1	940.0	911.3	883.7
17.5°	1432.9	1361.3	1280.6	1198.4	1123.4	1054.4	997.8	953.1	909.3	874.3	846.8
20°	1470.0	1388.6	1297.2	1211.9	1129.0	1052.0	989.9	936.5	889.2	852.2	821.0
22.5°	1501.9	1406.7	1312.2	1221.0	1128.6	1045.7	975.2	920.4	869.0	832.8	799.7
25°	1535.1	1421.1	1326.3	1219.3	1116.2	1030.3	951.3	889.2	837.8	795.4	761.4
27.5°	1563.5	1420.1	1307.7	1192.5	1096.6	1010.6	926.2	859.6	805.1	759.0	724.4
30°	1582.4	1422.1	1288.4	1174.4	1077.7	988.8	906.9	839.8	782.6	735.7	703.1
32.5°	1594.3	1420.9	1270.6	1149.1	1047.6	969.1	886.0	816.5	757.7	711.6	680.2
35°	1601.2	1412.2	1240.0	1096.9	999.2	922.7	853.2	781.1	719.4	676.5	641.0
37.5°	1587.4	1393.9	1204.5	1046.6	939.6	864.3	805.8	744.4	685.4	638.1	607.6
40°	1565.7	1382.1	1176.9	1011.1	898.5	826.0	776.2	716.0	657.7	612.8	584.2
42.5°	1524.2	1358.0	1146.4	971.6	855.9	783.3	737.5	687.2	632.1	589.9	561.4
45°	1423.1	1305.6	1100.9	912.4	793.0	717.9	677.5	641.0	591.2	550.2	525.5
47.5°	1282.7	1226.8	1034.9	849.9	727.3	655.1	613.0	583.6	547.2	514.2	490.5
50°	1185.2	1162.1	990.3	807.3	683.4	612.8	572.4	545.7	519.6	486.5	464.9
52.5°	1072.7	1087.0	938.2	763.1	638.8	569.4	531.3	510.2	486.4	459.3	440.4
55°	914.4	966.1	848.2	688.8	572.4	506.2	470.2	451.5	437.7	417.5	401.1
57.5°	766.0	832.0	750.9	612.4	507.2	450.2	415.6	395.1	386.3	375.7	362.9
60°	678.0	743.1	681.5	561.0	463.4	409.1	378.4	361.2	352.3	344.9	334.0
62.5°	599.5	665.3	613.5	509.0	420.3	369.9	343.4	326.5	319.5	315.7	306.4
65°	491.4	548.2	513.7	427.8	358.7	314.3	290.1	278.3	271.9	270.4	264.5
67.5°	400.0	443.2	418.0	354.9	300.5	262.1	241.6	231.5	226.6	226.1	221.7
70°	340.0	380.4	361.2	304.0	257.1	227.0	209.2	200.3	197.4	196.9	194.4
72.5°	293.4	321.6	306.3	258.5	222.3	195.0	182.0	172.7	169.4	170.0	168.3
75°	217.1	238.4	229.4	196.4	167.3	149.5	138.6	132.7	129.8	131.3	129.3
77.5°	156.2	169.7	161.6	138.7	120.8	107.9	100.0	96.3	93.7	93.6	92.7
80°	117.9	125.8	121.4	107.5	92.7	81.9	75.5	73.0	71.5	71.1	70.6
82.5°	84.0	90.7	85.5	76.0	65.9	59.4	55.8	52.5	51.5	51.7	51.2
85°	42.4	44.9	42.9	37.0	33.1	30.1	28.1	26.7	25.6	26.1	25.2
87.5°	19.8	19.3	17.3	15.1	13.7	11.8	11.2	9.8	9.6	10.3	10.5
90°	25.9	21.8	17.7	14.0	10.9	7.7	4.6	1.4	4.6	7.7	10.9
92.5°	49.9	47.6	45.2	43.0	40.8	38.6	36.6	34.4	36.6	38.6	40.8
95°	100.1	97.6	95.1	92.7	90.5	88.3	86.1	83.9	86.1	88.3	90.5
97.5°	160.9	159.1	157.2	155.5	153.9	152.2	150.6	148.9	150.6	152.2	153.9
100°	205.8	204.2	202.6	200.9	199.0	197.1	195.2	193.3	195.2	197.1	199.0
102.5°	254.8	252.7	250.6	249.0	247.9	246.8	245.6	244.5	245.6	246.8	247.9
105°	329.7	326.9	324.0	322.3	321.7	321.0	320.5	319.8	320.5	321.0	321.7
107.5°	411.9	410.8	409.6	408.9	408.5	408.1	407.7	407.4	407.7	408.1	408.5
110°	466.4	465.7	465.1	464.5	463.8	463.2	462.6	461.9	462.6	463.2	463.8





TEST NUMBER: P332175-830

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	520.8	520.7	520.6	520.3	519.9	519.5	519.2	518.8	519.2	519.5	519.9
115°	606.7	607.4	608.0	607.8	606.9	606.0	605.0	604.1	605.0	606.0	606.9
117.5°	690.7	691.5	692.3	692.4	691.8	691.2	690.5	689.9	690.5	691.2	691.8
120°	747.9	749.5	751.1	750.9	749.0	747.2	745.3	743.4	745.3	747.2	749.0
122.5°	803.2	804.1	804.9	804.6	803.2	801.8	800.4	799.1	800.4	801.8	803.2
125°	886.7	887.4	888.0	887.9	886.9	886.0	885.0	884.0	885.0	886.0	886.9
127.5°	969.9	970.5	971.3	970.6	968.6	966.6	964.5	962.5	964.5	966.6	968.6
130°	1023.8	1024.7	1025.7	1024.9	1022.4	1019.8	1017.4	1014.8	1017.4	1019.8	1022.4
132.5°	1076.8	1077.4	1078.2	1077.2	1074.7	1072.1	1069.6	1067.1	1069.6	1072.1	1074.7
135°	1154.7	1155.1	1155.4	1154.6	1152.6	1150.8	1148.9	1147.0	1148.9	1150.8	1152.6
137.5°	1230.0	1229.3	1228.4	1227.2	1225.7	1224.1	1222.5	1220.9	1222.5	1224.1	1225.7
140°	1280.0	1279.7	1279.3	1278.4	1276.8	1275.3	1273.7	1272.1	1273.7	1275.3	1276.8
142.5°	1327.2	1326.6	1326.1	1325.0	1323.4	1321.8	1320.2	1318.7	1320.2	1321.8	1323.4
145°	1396.7	1395.7	1394.8	1394.0	1393.4	1392.7	1392.1	1391.5	1392.1	1392.7	1393.4
147.5°	1462.4	1461.6	1460.7	1459.7	1458.6	1457.4	1456.2	1455.1	1456.2	1457.4	1458.6
150°	1503.9	1503.3	1502.6	1502.0	1501.4	1500.7	1500.2	1499.5	1500.2	1500.7	1501.4
152.5°	1540.8	1540.4	1540.0	1539.4	1538.5	1537.7	1536.7	1535.9	1536.7	1537.7	1538.5
155°	1594.0	1593.7	1593.5	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3
157.5°	1641.1	1640.9	1640.6	1640.7	1641.1	1641.4	1641.8	1642.2	1641.8	1641.4	1641.1
160°	1670.0	1670.0	1670.0	1670.4	1670.9	1671.6	1672.3	1672.9	1672.3	1671.6	1670.9
162.5°	1696.9	1696.6	1696.3	1696.7	1697.5	1698.4	1699.3	1700.2	1699.3	1698.4	1697.5
165°	1731.2	1731.2	1731.2	1731.6	1732.6	1733.5	1734.5	1735.4	1734.5	1733.5	1732.6
167.5°	1758.5	1758.2	1758.0	1758.5	1759.7	1761.0	1762.3	1763.6	1762.3	1761.0	1759.7
170°	1773.8	1773.8	1773.8	1774.4	1775.7	1777.0	1778.2	1779.4	1778.2	1777.0	1775.7
172.5°	1786.3	1786.3	1786.3	1787.0	1788.2	1789.4	1790.7	1792.0	1790.7	1789.4	1788.2
175°	1799.4	1799.4	1799.4	1800.0	1801.3	1802.5	1803.8	1805.1	1803.8	1802.5	1801.3
177.5°	1805.9	1805.9	1805.9	1806.4	1807.4	1808.5	1809.5	1810.4	1809.5	1808.5	1807.4
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1001.5	998.7	994.8	988.8	984.1	976.6	976.6	977.8	977.8	977.4	976.6
5°	971.1	963.7	954.8	944.4	933.6	922.7	920.8	916.8	913.9	911.9	909.4
7.5°	939.1	925.9	912.9	898.4	885.2	874.3	866.7	860.4	856.3	852.0	848.9
10°	917.3	901.0	885.7	870.4	853.7	840.4	832.0	826.0	821.6	817.7	815.7
12.5°	891.6	873.0	856.1	841.6	823.2	809.5	801.5	798.8	793.5	785.2	780.9
15°	854.1	836.9	816.6	794.5	785.5	768.7	759.4	755.0	752.0	745.6	743.6
17.5°	822.1	799.5	776.7	760.2	743.7	730.1	724.8	719.3	715.4	710.1	708.6
20°	796.4	776.2	755.4	737.7	720.4	705.6	701.2	697.2	693.2	690.8	688.8
22.5°	770.3	750.2	732.9	716.3	698.0	688.2	683.4	679.1	676.3	674.7	672.7
25°	733.8	716.0	696.7	681.9	667.1	660.7	657.7	655.3	653.3	650.8	650.4
27.5°	701.0	681.6	666.0	652.2	641.6	636.2	633.4	632.2	632.6	633.5	634.0
30°	676.5	658.7	645.9	634.0	624.2	619.3	618.8	618.8	620.8	621.2	622.3
32.5°	654.0	639.4	626.6	615.1	607.7	604.3	606.1	606.1	607.8	609.0	610.8
35°	621.2	608.4	598.5	588.7	582.3	583.7	584.8	585.7	588.1	591.2	593.1
37.5°	589.9	578.8	568.5	560.8	557.9	560.5	562.9	565.0	567.9	570.1	572.1
40°	567.4	559.0	549.2	542.2	543.3	544.8	546.8	549.2	551.7	553.2	555.2
42.5°	546.5	537.7	530.3	524.5	525.9	527.8	529.0	530.3	533.1	535.7	537.0
45°	514.6	507.7	500.9	497.4	498.4	499.4	500.3	501.8	504.3	506.2	506.8
47.5°	478.8	474.0	469.4	466.0	467.6	467.2	468.4	471.6	472.4	473.6	476.4
50°	455.9	451.5	446.1	445.1	445.1	445.1	445.5	449.5	449.5	451.5	453.5
52.5°	430.6	427.8	424.3	422.5	421.8	421.8	423.9	425.8	426.6	429.4	431.4
55°	393.2	390.3	387.4	385.9	384.8	385.9	389.8	390.8	393.2	394.7	396.2
57.5°	354.3	352.0	349.7	348.8	348.6	350.0	352.1	355.1	355.7	360.2	362.5
60°	328.7	325.2	323.2	323.2	322.3	326.7	325.6	330.6	331.6	334.5	338.0
62.5°	302.2	297.6	296.7	296.7	298.1	299.4	300.8	302.9	305.6	309.2	312.0
65°	259.6	257.1	260.5	260.0	259.0	262.0	262.0	264.5	267.4	270.9	276.4
67.5°	219.1	217.9	218.2	218.2	219.7	221.4	222.7	224.9	228.5	232.1	235.6
70°	191.9	193.4	191.0	192.9	194.4	194.9	195.9	198.9	202.8	205.3	209.2
72.5°	165.5	165.4	165.7	166.5	168.0	168.8	169.8	173.2	177.6	179.6	182.8
75°	127.3	126.8	128.3	128.3	130.7	131.8	132.7	134.2	138.2	141.1	143.5
77.5°	92.9	93.6	93.2	94.9	94.3	94.4	97.5	99.0	99.3	105.2	106.5
80°	70.0	71.1	71.5	72.0	72.6	71.5	75.0	76.4	76.4	79.9	82.4
82.5°	50.3	50.9	52.2	52.7	52.8	53.8	54.1	55.1	56.4	57.9	61.1
85°	25.2	26.7	27.1	26.7	27.1	26.1	27.6	28.1	28.7	28.7	28.7
87.5°	10.7	11.8	12.3	13.5	13.9	15.1	15.4	14.8	15.1	16.5	15.2
90°	14.0	17.7	21.8	25.9	30.0	34.1	35.3	36.7	37.9	39.2	40.2
92.5°	43.0	45.2	47.6	49.9	52.2	54.6	55.6	56.6	57.6	58.6	58.9
95°	92.7	95.1	97.6	100.1	102.6	105.2	106.4	107.7	109.0	110.2	110.8
97.5°	155.5	157.2	159.1	160.9	162.8	164.6	166.1	167.5	168.9	170.4	171.1
100°	200.9	202.6	204.2	205.8	207.4	209.0	209.9	210.8	211.8	212.7	213.5
102.5°	249.0	250.6	252.7	254.8	256.8	258.9	260.0	260.9	261.8	262.8	263.2
105°	322.3	324.0	326.9	329.7	332.6	335.5	335.5	335.5	335.5	335.5	335.7
107.5°	408.9	409.6	410.8	411.9	413.0	414.2	415.2	416.2	417.2	418.2	418.5
110°	464.5	465.1	465.7	466.4	466.9	467.6	468.9	470.1	471.4	472.7	473.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	520.3	520.6	520.7	520.8	520.9	521.0	522.5	524.1	525.6	527.1	527.8
115°	607.8	608.0	607.4	606.7	606.1	605.5	605.8	606.1	606.4	606.7	606.7
117.5°	692.4	692.3	691.5	690.7	689.8	689.1	689.0	688.9	688.9	688.8	688.3
120°	750.9	751.1	749.5	747.9	746.3	744.8	744.4	744.1	743.9	743.5	743.0
122.5°	804.6	804.9	804.1	803.2	802.5	801.6	800.8	799.9	799.2	798.3	797.5
125°	887.9	888.0	887.4	886.7	886.1	885.5	884.2	883.0	881.7	880.4	879.1
127.5°	970.6	971.3	970.5	969.9	969.2	968.5	966.7	965.0	963.2	961.4	959.8
130°	1024.9	1025.7	1024.7	1023.8	1022.8	1021.9	1020.7	1019.4	1018.1	1016.9	1015.1
132.5°	1077.2	1078.2	1077.4	1076.8	1076.0	1075.3	1073.8	1072.3	1070.8	1069.3	1067.7
135°	1154.6	1155.4	1155.1	1154.7	1154.4	1154.1	1152.8	1151.6	1150.3	1149.1	1148.1
137.5°	1227.2	1228.4	1229.3	1230.0	1230.9	1231.7	1230.4	1229.1	1227.8	1226.4	1225.1
140°	1278.4	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3	1280.0	1279.7	1279.3	1278.1
142.5°	1325.0	1326.1	1326.6	1327.2	1327.8	1328.3	1328.0	1327.8	1327.4	1327.1	1326.1
145°	1394.0	1394.8	1395.7	1396.7	1397.6	1398.5	1398.3	1397.9	1397.6	1397.3	1396.5
147.5°	1459.7	1460.7	1461.6	1462.4	1463.3	1464.2	1464.2	1464.2	1464.2	1464.2	1463.3
150°	1502.0	1502.6	1503.3	1503.9	1504.5	1505.1	1505.1	1505.1	1505.1	1505.1	1504.2
152.5°	1539.4	1540.0	1540.4	1540.8	1541.2	1541.5	1542.1	1542.6	1543.0	1543.6	1543.0
155°	1593.3	1593.5	1593.7	1594.0	1594.4	1594.7	1596.0	1597.2	1598.5	1599.8	1599.3
157.5°	1640.7	1640.6	1640.9	1641.1	1641.3	1641.6	1642.9	1644.3	1645.6	1646.9	1646.7
160°	1670.4	1670.0	1670.0	1670.0	1670.0	1670.0	1671.6	1673.2	1674.8	1676.3	1676.5
162.5°	1696.7	1696.3	1696.6	1696.9	1697.0	1697.3	1698.9	1700.4	1702.0	1703.6	1703.5
165°	1731.6	1731.2	1731.2	1731.2	1731.2	1731.2	1733.1	1734.9	1736.8	1738.7	1738.6
167.5°	1758.5	1758.0	1758.2	1758.5	1758.8	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8
170°	1774.4	1773.8	1773.8	1773.8	1773.8	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6
172.5°	1787.0	1786.3	1786.3	1786.3	1786.3	1786.3	1788.3	1790.2	1792.2	1794.1	1794.0
175°	1800.0	1799.4	1799.4	1799.4	1799.4	1799.4	1801.3	1803.2	1805.1	1806.9	1806.8
177.5°	1806.4	1805.9	1805.9	1805.9	1805.9	1805.9	1807.4	1808.9	1810.4	1811.9	1811.8
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



TEST NUMBER: P332175-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	973.8	973.5	976.2	974.2	976.2	973.5	973.8	976.6	977.4	977.8	977.8
5°	906.4	908.0	903.0	903.0	903.0	908.0	906.4	909.4	911.9	913.9	916.8
7.5°	846.4	844.2	844.4	841.8	844.4	844.2	846.4	848.9	852.0	856.3	860.4
10°	809.7	806.8	805.8	806.3	805.8	806.8	809.7	815.7	817.7	821.6	826.0
12.5°	779.3	778.7	772.2	772.3	772.2	778.7	779.3	780.9	785.2	793.5	798.8
15°	743.6	734.2	733.2	736.2	733.2	734.2	743.6	743.6	745.6	752.0	755.0
17.5°	707.8	702.9	703.1	701.6	703.1	702.9	707.8	708.6	710.1	715.4	719.3
20°	688.8	685.9	685.4	681.9	685.4	685.9	688.8	688.8	690.8	693.2	697.2
22.5°	671.5	670.5	670.8	666.9	670.8	670.5	671.5	672.7	674.7	676.3	679.1
25°	649.9	652.3	650.4	650.4	650.4	652.3	649.9	650.4	650.8	653.3	655.3
27.5°	635.3	635.2	634.1	634.1	634.1	635.2	635.3	634.0	633.5	632.6	632.2
30°	624.2	623.7	624.7	624.7	624.7	623.7	624.2	622.3	621.2	620.8	618.8
32.5°	613.1	613.9	614.1	614.4	614.1	613.9	613.1	610.8	609.0	607.8	606.1
35°	596.1	596.5	598.0	597.1	598.0	596.5	596.1	593.1	591.2	588.1	585.7
37.5°	573.0	575.2	574.8	575.5	574.8	575.2	573.0	572.1	570.1	567.9	565.0
40°	555.6	557.1	556.6	556.6	556.6	557.1	555.6	555.2	553.2	551.7	549.2
42.5°	537.8	538.9	537.6	536.9	537.6	538.9	537.8	537.0	535.7	533.1	530.3
45°	508.7	507.7	509.3	507.3	509.3	507.7	508.7	506.8	506.2	504.3	501.8
47.5°	476.2	477.1	477.6	479.0	477.6	477.1	476.2	476.4	473.6	472.4	471.6
50°	454.5	457.4	457.4	456.9	457.4	457.4	454.5	453.5	451.5	449.5	449.5
52.5°	433.1	434.5	436.5	436.4	436.5	434.5	433.1	431.4	429.4	426.6	425.8
55°	400.2	401.1	402.2	402.7	402.2	401.1	400.2	396.2	394.7	393.2	390.8
57.5°	366.0	365.6	368.0	368.7	368.0	365.6	366.0	362.5	360.2	355.7	355.1
60°	342.0	342.0	345.9	347.4	345.9	342.0	342.0	338.0	334.5	331.6	330.6
62.5°	316.3	317.9	321.8	319.7	321.8	317.9	316.3	312.0	309.2	305.6	302.9
65°	278.8	282.8	282.3	284.2	282.3	282.8	278.8	276.4	270.9	267.4	264.5
67.5°	239.6	242.0	245.6	245.9	245.6	242.0	239.6	235.6	232.1	228.5	224.9
70°	213.2	215.7	217.6	219.0	217.6	215.7	213.2	209.2	205.3	202.8	198.9
72.5°	187.5	188.8	193.5	191.4	193.5	188.8	187.5	182.8	179.6	177.6	173.2
75°	147.0	150.5	153.4	151.9	153.4	150.5	147.0	143.5	141.1	138.2	134.2
77.5°	108.8	112.2	113.6	112.4	113.6	112.2	108.8	106.5	105.2	99.3	99.0
80°	85.9	85.4	88.3	87.8	88.3	85.4	85.9	82.4	79.9	76.4	76.4
82.5°	63.0	62.5	63.8	64.2	63.8	62.5	63.0	61.1	57.9	56.4	55.1
85°	30.6	32.0	30.1	29.6	30.1	32.0	30.6	28.7	28.7	28.7	28.1
87.5°	15.3	15.4	15.1	14.8	15.1	15.4	15.3	15.2	16.5	15.1	14.8
90°	40.7	41.4	42.0	42.6	42.0	41.4	40.7	40.2	39.2	37.9	36.7
92.5°	58.5	58.2	57.8	57.4	57.8	58.2	58.5	58.9	58.6	57.6	56.6
95°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.2	109.0	107.7
97.5°	171.0	170.8	170.7	170.6	170.7	170.8	171.0	171.1	170.4	168.9	167.5
100°	214.1	214.8	215.4	216.0	215.4	214.8	214.1	213.5	212.7	211.8	210.8
102.5°	263.1	262.9	262.8	262.7	262.8	262.9	263.1	263.2	262.8	261.8	260.9
105°	336.4	337.1	337.6	338.3	337.6	337.1	336.4	335.7	335.5	335.5	335.5
107.5°	418.1	417.7	417.4	417.0	417.4	417.7	418.1	418.5	418.2	417.2	416.2
110°	472.3	471.7	471.1	470.4	471.1	471.7	472.3	473.0	472.7	471.4	470.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.7	527.5	527.4	527.3	527.4	527.5	527.7	527.8	527.1	525.6	524.1
115°	606.4	606.1	605.8	605.5	605.8	606.1	606.4	606.7	606.7	606.4	606.1
117.5°	687.4	686.5	685.7	684.8	685.7	686.5	687.4	688.3	688.8	688.9	688.9
120°	742.4	741.8	741.1	740.5	741.1	741.8	742.4	743.0	743.5	743.9	744.1
122.5°	796.6	795.7	794.8	793.9	794.8	795.7	796.6	797.5	798.3	799.2	799.9
125°	877.9	876.7	875.3	874.1	875.3	876.7	877.9	879.1	880.4	881.7	883.0
127.5°	958.4	956.9	955.5	953.9	955.5	956.9	958.4	959.8	961.4	963.2	965.0
130°	1013.0	1010.7	1008.5	1006.3	1008.5	1010.7	1013.0	1015.1	1016.9	1018.1	1019.4
132.5°	1066.0	1064.3	1062.5	1060.8	1062.5	1064.3	1066.0	1067.7	1069.3	1070.8	1072.3
135°	1147.5	1146.8	1146.2	1145.6	1146.2	1146.8	1147.5	1148.1	1149.1	1150.3	1151.6
137.5°	1223.9	1222.8	1221.5	1220.3	1221.5	1222.8	1223.9	1225.1	1226.4	1227.8	1229.1
140°	1275.8	1273.7	1271.4	1269.2	1271.4	1273.7	1275.8	1278.1	1279.3	1279.7	1280.0
142.5°	1324.4	1322.7	1321.0	1319.3	1321.0	1322.7	1324.4	1326.1	1327.1	1327.4	1327.8
145°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.5	1397.3	1397.6	1397.9
147.5°	1461.4	1459.5	1457.5	1455.7	1457.5	1459.5	1461.4	1463.3	1464.2	1464.2	1464.2
150°	1502.3	1500.4	1498.5	1496.7	1498.5	1500.4	1502.3	1504.2	1505.1	1505.1	1505.1
152.5°	1541.3	1539.7	1538.0	1536.4	1538.0	1539.7	1541.3	1543.0	1543.6	1543.0	1542.6
155°	1597.0	1594.9	1592.6	1590.4	1592.6	1594.9	1597.0	1599.3	1599.8	1598.5	1597.2
157.5°	1644.9	1643.1	1641.3	1639.6	1641.3	1643.1	1644.9	1646.7	1646.9	1645.6	1644.3
160°	1675.3	1674.0	1672.7	1671.4	1672.7	1674.0	1675.3	1676.5	1676.3	1674.8	1673.2
162.5°	1701.4	1699.4	1697.3	1695.4	1697.3	1699.4	1701.4	1703.5	1703.6	1702.0	1700.4
165°	1736.4	1734.2	1731.9	1729.8	1731.9	1734.2	1736.4	1738.6	1738.7	1736.8	1734.9
167.5°	1764.9	1762.9	1761.0	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8	1764.9	1762.9
170°	1780.5	1778.2	1776.0	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6	1780.5	1778.2
172.5°	1791.8	1789.6	1787.3	1785.2	1787.3	1789.6	1791.8	1794.0	1794.1	1792.2	1790.2
175°	1804.6	1802.3	1800.2	1798.0	1800.2	1802.3	1804.6	1806.8	1806.9	1805.1	1803.2
177.5°	1810.1	1808.3	1806.6	1804.8	1806.6	1808.3	1810.1	1811.8	1811.9	1810.4	1808.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	976.6	976.6	984.1	988.8	994.8	998.7	1001.5	1004.3	1009.0	1015.3	1022.4
5°	920.8	922.7	933.6	944.4	954.8	963.7	971.1	980.0	990.8	1004.2	1019.0
7.5°	866.7	874.3	885.2	898.4	912.9	925.9	939.1	953.7	968.9	988.5	1009.3
10°	832.0	840.4	853.7	870.4	885.7	901.0	917.3	933.1	952.3	975.5	1002.2
12.5°	801.5	809.5	823.2	841.6	856.1	873.0	891.6	912.2	933.8	961.7	991.9
15°	759.4	768.7	785.5	794.5	816.6	836.9	854.1	883.7	911.3	940.0	975.1
17.5°	724.8	730.1	743.7	760.2	776.7	799.5	822.1	846.8	874.3	909.3	953.1
20°	701.2	705.6	720.4	737.7	755.4	776.2	796.4	821.0	852.2	889.2	936.5
22.5°	683.4	688.2	698.0	716.3	732.9	750.2	770.3	799.7	832.8	869.0	920.4
25°	657.7	660.7	667.1	681.9	696.7	716.0	733.8	761.4	795.4	837.8	889.2
27.5°	633.4	636.2	641.6	652.2	666.0	681.6	701.0	724.4	759.0	805.1	859.6
30°	618.8	619.3	624.2	634.0	645.9	658.7	676.5	703.1	735.7	782.6	839.8
32.5°	606.1	604.3	607.7	615.1	626.6	639.4	654.0	680.2	711.6	757.7	816.5
35°	584.8	583.7	582.3	588.7	598.5	608.4	621.2	641.0	676.5	719.4	781.1
37.5°	562.9	560.5	557.9	560.8	568.5	578.8	589.9	607.6	638.1	685.4	744.4
40°	546.8	544.8	543.3	542.2	549.2	559.0	567.4	584.2	612.8	657.7	716.0
42.5°	529.0	527.8	525.9	524.5	530.3	537.7	546.5	561.4	589.9	632.1	687.2
45°	500.3	499.4	498.4	497.4	500.9	507.7	514.6	525.5	550.2	591.2	641.0
47.5°	468.4	467.2	467.6	466.0	469.4	474.0	478.8	490.5	514.2	547.2	583.6
50°	445.5	445.1	445.1	445.1	446.1	451.5	455.9	464.9	486.5	519.6	545.7
52.5°	423.9	421.8	421.8	422.5	424.3	427.8	430.6	440.4	459.3	486.4	510.2
55°	389.8	385.9	384.8	385.9	387.4	390.3	393.2	401.1	417.5	437.7	451.5
57.5°	352.1	350.0	348.6	348.8	349.7	352.0	354.3	362.9	375.7	386.3	395.1
60°	325.6	326.7	322.3	323.2	323.2	325.2	328.7	334.0	344.9	352.3	361.2
62.5°	300.8	299.4	298.1	296.7	296.7	297.6	302.2	306.4	315.7	319.5	326.5
65°	262.0	262.0	259.0	260.0	260.5	257.1	259.6	264.5	270.4	271.9	278.3
67.5°	222.7	221.4	219.7	218.2	218.2	217.9	219.1	221.7	226.1	226.6	231.5
70°	195.9	194.9	194.4	192.9	191.0	193.4	191.9	194.4	196.9	197.4	200.3
72.5°	169.8	168.8	168.0	166.5	165.7	165.4	165.5	168.3	170.0	169.4	172.7
75°	132.7	131.8	130.7	128.3	128.3	126.8	127.3	129.3	131.3	129.8	132.7
77.5°	97.5	94.4	94.3	94.9	93.2	93.6	92.9	92.7	93.6	93.7	96.3
80°	75.0	71.5	72.6	72.0	71.5	71.1	70.0	70.6	71.1	71.5	73.0
82.5°	54.1	53.8	52.8	52.7	52.2	50.9	50.3	51.2	51.7	51.5	52.5
85°	27.6	26.1	27.1	26.7	27.1	26.7	25.2	25.2	26.1	25.6	26.7
87.5°	15.4	15.1	13.9	13.5	12.3	11.8	10.7	10.5	10.3	9.6	9.8
90°	35.3	34.1	30.0	25.9	21.8	17.7	14.0	10.9	7.7	4.6	1.4
92.5°	55.6	54.6	52.2	49.9	47.6	45.2	43.0	40.8	38.6	36.6	34.4
95°	106.4	105.2	102.6	100.1	97.6	95.1	92.7	90.5	88.3	86.1	83.9
97.5°	166.1	164.6	162.8	160.9	159.1	157.2	155.5	153.9	152.2	150.6	148.9
100°	209.9	209.0	207.4	205.8	204.2	202.6	200.9	199.0	197.1	195.2	193.3
102.5°	260.0	258.9	256.8	254.8	252.7	250.6	249.0	247.9	246.8	245.6	244.5
105°	335.5	335.5	332.6	329.7	326.9	324.0	322.3	321.7	321.0	320.5	319.8
107.5°	415.2	414.2	413.0	411.9	410.8	409.6	408.9	408.5	408.1	407.7	407.4
110°	468.9	467.6	466.9	466.4	465.7	465.1	464.5	463.8	463.2	462.6	461.9



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	522.5	521.0	520.9	520.8	520.7	520.6	520.3	519.9	519.5	519.2	518.8
115°	605.8	605.5	606.1	606.7	607.4	608.0	607.8	606.9	606.0	605.0	604.1
117.5°	689.0	689.1	689.8	690.7	691.5	692.3	692.4	691.8	691.2	690.5	689.9
120°	744.4	744.8	746.3	747.9	749.5	751.1	750.9	749.0	747.2	745.3	743.4
122.5°	800.8	801.6	802.5	803.2	804.1	804.9	804.6	803.2	801.8	800.4	799.1
125°	884.2	885.5	886.1	886.7	887.4	888.0	887.9	886.9	886.0	885.0	884.0
127.5°	966.7	968.5	969.2	969.9	970.5	971.3	970.6	968.6	966.6	964.5	962.5
130°	1020.7	1021.9	1022.8	1023.8	1024.7	1025.7	1024.9	1022.4	1019.8	1017.4	1014.8
132.5°	1073.8	1075.3	1076.0	1076.8	1077.4	1078.2	1077.2	1074.7	1072.1	1069.6	1067.1
135°	1152.8	1154.1	1154.4	1154.7	1155.1	1155.4	1154.6	1152.6	1150.8	1148.9	1147.0
137.5°	1230.4	1231.7	1230.9	1230.0	1229.3	1228.4	1227.2	1225.7	1224.1	1222.5	1220.9
140°	1280.3	1280.6	1280.3	1280.0	1279.7	1279.3	1278.4	1276.8	1275.3	1273.7	1272.1
142.5°	1328.0	1328.3	1327.8	1327.2	1326.6	1326.1	1325.0	1323.4	1321.8	1320.2	1318.7
145°	1398.3	1398.5	1397.6	1396.7	1395.7	1394.8	1394.0	1393.4	1392.7	1392.1	1391.5
147.5°	1464.2	1464.2	1463.3	1462.4	1461.6	1460.7	1459.7	1458.6	1457.4	1456.2	1455.1
150°	1505.1	1505.1	1504.5	1503.9	1503.3	1502.6	1502.0	1501.4	1500.7	1500.2	1499.5
152.5°	1542.1	1541.5	1541.2	1540.8	1540.4	1540.0	1539.4	1538.5	1537.7	1536.7	1535.9
155°	1596.0	1594.7	1594.4	1594.0	1593.7	1593.5	1593.3	1593.3	1593.3	1593.3	1593.3
157.5°	1642.9	1641.6	1641.3	1641.1	1640.9	1640.6	1640.7	1641.1	1641.4	1641.8	1642.2
160°	1671.6	1670.0	1670.0	1670.0	1670.0	1670.0	1670.4	1670.9	1671.6	1672.3	1672.9
162.5°	1698.9	1697.3	1697.0	1696.9	1696.6	1696.3	1696.7	1697.5	1698.4	1699.3	1700.2
165°	1733.1	1731.2	1731.2	1731.2	1731.2	1731.2	1731.6	1732.6	1733.5	1734.5	1735.4
167.5°	1761.0	1759.0	1758.8	1758.5	1758.2	1758.0	1758.5	1759.7	1761.0	1762.3	1763.6
170°	1776.0	1773.8	1773.8	1773.8	1773.8	1773.8	1774.4	1775.7	1777.0	1778.2	1779.4
172.5°	1788.3	1786.3	1786.3	1786.3	1786.3	1786.3	1787.0	1788.2	1789.4	1790.7	1792.0
175°	1801.3	1799.4	1799.4	1799.4	1799.4	1799.4	1800.0	1801.3	1802.5	1803.8	1805.1
177.5°	1807.4	1805.9	1805.9	1805.9	1805.9	1805.9	1806.4	1807.4	1808.5	1809.5	1810.4
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1026.7	1033.5	1038.2	1043.7	1046.9	1050.0	1052.4	1055.6	1056.3	1067.8
5°	1029.4	1039.2	1056.5	1069.3	1085.1	1102.3	1114.2	1119.6	1133.9	1145.8	1169.4
7.5°	1028.0	1049.0	1075.1	1102.1	1131.1	1158.0	1181.3	1208.9	1228.6	1258.1	1287.1
10°	1026.8	1055.0	1088.5	1123.0	1163.6	1201.0	1234.5	1272.1	1303.2	1344.2	1379.1
12.5°	1023.3	1057.3	1103.9	1144.8	1193.9	1245.7	1295.3	1343.5	1371.0	1439.3	1471.5
15°	1014.6	1055.0	1113.2	1175.4	1242.9	1304.2	1367.3	1417.7	1499.0	1558.8	1596.8
17.5°	997.8	1054.4	1123.4	1198.4	1280.6	1361.3	1432.9	1509.2	1595.5	1667.8	1744.8
20°	989.9	1052.0	1129.0	1211.9	1297.2	1388.6	1470.0	1561.7	1656.0	1727.0	1825.7
22.5°	975.2	1045.7	1128.6	1221.0	1312.2	1406.7	1501.9	1594.5	1703.4	1801.3	1895.2
25°	951.3	1030.3	1116.2	1219.3	1326.3	1421.1	1535.1	1657.9	1771.4	1897.2	1991.0
27.5°	926.2	1010.6	1096.6	1192.5	1307.7	1420.1	1563.5	1702.3	1841.2	1949.7	2019.1
30°	906.9	988.8	1077.7	1174.4	1288.4	1422.1	1582.4	1733.9	1869.2	1962.4	2001.4
32.5°	886.0	969.1	1047.6	1149.1	1270.6	1420.9	1594.3	1752.5	1870.8	1932.8	1925.2
35°	853.2	922.7	999.2	1096.9	1240.0	1412.2	1601.2	1754.2	1826.7	1813.4	1712.7
37.5°	805.8	864.3	939.6	1046.6	1204.5	1393.9	1587.4	1702.1	1697.4	1588.9	1443.1
40°	776.2	826.0	898.5	1011.1	1176.9	1382.1	1565.7	1640.2	1577.1	1425.5	1250.8
42.5°	737.5	783.3	855.9	971.6	1146.4	1358.0	1524.2	1545.9	1422.3	1247.9	1087.8
45°	677.5	717.9	793.0	912.4	1100.9	1305.6	1423.1	1370.3	1204.0	1023.9	902.0
47.5°	613.0	655.1	727.3	849.9	1034.9	1226.8	1282.7	1170.4	999.7	853.7	741.8
50°	572.4	612.8	683.4	807.3	990.3	1162.1	1185.2	1040.2	883.3	755.0	663.2
52.5°	531.3	569.4	638.8	763.1	938.2	1087.0	1072.7	924.9	780.6	671.3	599.3
55°	470.2	506.2	572.4	688.8	848.2	966.1	914.4	773.3	653.8	568.9	514.2
57.5°	415.6	450.2	507.2	612.4	750.9	832.0	766.0	647.1	552.1	486.8	446.0
60°	378.4	409.1	463.4	561.0	681.5	743.1	678.0	572.9	492.9	440.6	404.2
62.5°	343.4	369.9	420.3	509.0	613.5	665.3	599.5	510.5	442.4	396.1	365.0
65°	290.1	314.3	358.7	427.8	513.7	548.2	491.4	419.4	366.6	332.1	311.3
67.5°	241.6	262.1	300.5	354.9	418.0	443.2	400.0	344.2	304.4	276.7	260.2
70°	209.2	227.0	257.1	304.0	361.2	380.4	340.0	294.1	264.9	242.8	227.4
72.5°	182.0	195.0	222.3	258.5	306.3	321.6	293.4	253.1	225.9	209.2	197.1
75°	138.6	149.5	167.3	196.4	229.4	238.4	217.1	191.9	173.7	161.8	152.5
77.5°	100.0	107.9	120.8	138.7	161.6	169.7	156.2	139.4	126.1	118.1	112.9
80°	75.5	81.9	92.7	107.5	121.4	125.8	117.9	105.1	95.8	91.3	86.8
82.5°	55.8	59.4	65.9	76.0	85.5	90.7	84.0	76.3	71.3	67.2	65.5
85°	28.1	30.1	33.1	37.0	42.9	44.9	42.4	40.4	37.5	35.1	35.1
87.5°	11.2	11.8	13.7	15.1	17.3	19.3	19.8	19.8	20.3	20.1	20.0
90°	4.6	7.7	10.9	14.0	17.7	21.8	25.9	30.0	34.1	35.3	36.7
92.5°	36.6	38.6	40.8	43.0	45.2	47.6	49.9	52.2	54.6	55.6	56.6
95°	86.1	88.3	90.5	92.7	95.1	97.6	100.1	102.6	105.2	106.4	107.7
97.5°	150.6	152.2	153.9	155.5	157.2	159.1	160.9	162.8	164.6	166.1	167.5
100°	195.2	197.1	199.0	200.9	202.6	204.2	205.8	207.4	209.0	209.9	210.8
102.5°	245.6	246.8	247.9	249.0	250.6	252.7	254.8	256.8	258.9	260.0	260.9
105°	320.5	321.0	321.7	322.3	324.0	326.9	329.7	332.6	335.5	335.5	335.5
107.5°	407.7	408.1	408.5	408.9	409.6	410.8	411.9	413.0	414.2	415.2	416.2
110°	462.6	463.2	463.8	464.5	465.1	465.7	466.4	466.9	467.6	468.9	470.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	519.2	519.5	519.9	520.3	520.6	520.7	520.8	520.9	521.0	522.5	524.1
115°	605.0	606.0	606.9	607.8	608.0	607.4	606.7	606.1	605.5	605.8	606.1
117.5°	690.5	691.2	691.8	692.4	692.3	691.5	690.7	689.8	689.1	689.0	688.9
120°	745.3	747.2	749.0	750.9	751.1	749.5	747.9	746.3	744.8	744.4	744.1
122.5°	800.4	801.8	803.2	804.6	804.9	804.1	803.2	802.5	801.6	800.8	799.9
125°	885.0	886.0	886.9	887.9	888.0	887.4	886.7	886.1	885.5	884.2	883.0
127.5°	964.5	966.6	968.6	970.6	971.3	970.5	969.9	969.2	968.5	966.7	965.0
130°	1017.4	1019.8	1022.4	1024.9	1025.7	1024.7	1023.8	1022.8	1021.9	1020.7	1019.4
132.5°	1069.6	1072.1	1074.7	1077.2	1078.2	1077.4	1076.8	1076.0	1075.3	1073.8	1072.3
135°	1148.9	1150.8	1152.6	1154.6	1155.4	1155.1	1154.7	1154.4	1154.1	1152.8	1151.6
137.5°	1222.5	1224.1	1225.7	1227.2	1228.4	1229.3	1230.0	1230.9	1231.7	1230.4	1229.1
140°	1273.7	1275.3	1276.8	1278.4	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3	1280.0
142.5°	1320.2	1321.8	1323.4	1325.0	1326.1	1326.6	1327.2	1327.8	1328.3	1328.0	1327.8
145°	1392.1	1392.7	1393.4	1394.0	1394.8	1395.7	1396.7	1397.6	1398.5	1398.3	1397.9
147.5°	1456.2	1457.4	1458.6	1459.7	1460.7	1461.6	1462.4	1463.3	1464.2	1464.2	1464.2
150°	1500.2	1500.7	1501.4	1502.0	1502.6	1503.3	1503.9	1504.5	1505.1	1505.1	1505.1
152.5°	1536.7	1537.7	1538.5	1539.4	1540.0	1540.4	1540.8	1541.2	1541.5	1542.1	1542.6
155°	1593.3	1593.3	1593.3	1593.3	1593.5	1593.7	1594.0	1594.4	1594.7	1596.0	1597.2
157.5°	1641.8	1641.4	1641.1	1640.7	1640.6	1640.9	1641.1	1641.3	1641.6	1642.9	1644.3
160°	1672.3	1671.6	1670.9	1670.4	1670.0	1670.0	1670.0	1670.0	1670.0	1671.6	1673.2
162.5°	1699.3	1698.4	1697.5	1696.7	1696.3	1696.6	1696.9	1697.0	1697.3	1698.9	1700.4
165°	1734.5	1733.5	1732.6	1731.6	1731.2	1731.2	1731.2	1731.2	1731.2	1733.1	1734.9
167.5°	1762.3	1761.0	1759.7	1758.5	1758.0	1758.2	1758.5	1758.8	1759.0	1761.0	1762.9
170°	1778.2	1777.0	1775.7	1774.4	1773.8	1773.8	1773.8	1773.8	1773.8	1776.0	1778.2
172.5°	1790.7	1789.4	1788.2	1787.0	1786.3	1786.3	1786.3	1786.3	1786.3	1788.3	1790.2
175°	1803.8	1802.5	1801.3	1800.0	1799.4	1799.4	1799.4	1799.4	1799.4	1801.3	1803.2
177.5°	1809.5	1808.5	1807.4	1806.4	1805.9	1805.9	1805.9	1805.9	1805.9	1807.4	1808.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1071.8	1072.1	1076.5	1079.7	1078.1	1080.1	1080.8
5°	1170.9	1188.7	1198.1	1204.9	1205.5	1206.0	1209.9
7.5°	1311.5	1330.6	1344.5	1365.6	1372.0	1379.1	1377.1
10°	1414.2	1442.3	1466.5	1479.3	1493.2	1513.3	1497.1
12.5°	1510.1	1560.0	1596.8	1616.7	1629.8	1633.8	1625.8
15°	1668.3	1733.4	1768.5	1767.5	1811.9	1831.2	1801.0
17.5°	1813.4	1873.5	1921.7	1946.4	1983.3	1991.5	1987.7
20°	1902.2	1967.8	2005.4	2047.8	2067.0	2084.2	2087.3
22.5°	1978.8	2037.7	2077.9	2113.3	2129.4	2137.6	2142.5
25°	2057.7	2104.0	2128.2	2140.5	2144.9	2144.0	2137.6
27.5°	2052.2	2055.8	2029.1	2003.0	1979.6	1953.2	1944.2
30°	1998.9	1957.5	1883.5	1841.5	1779.8	1731.0	1750.7
32.5°	1858.8	1776.3	1693.2	1601.5	1525.6	1504.0	1482.2
35°	1586.4	1441.3	1356.5	1257.7	1218.3	1178.8	1151.7
37.5°	1283.5	1171.2	1070.5	1006.0	966.5	941.5	928.0
40°	1109.7	1008.6	925.7	873.4	843.3	815.2	811.2
42.5°	971.2	877.1	814.7	773.1	744.2	732.3	723.6
45°	795.4	729.8	687.9	658.3	639.0	631.6	621.7
47.5°	673.3	626.9	595.4	575.2	560.7	555.3	554.4
50°	604.9	566.5	543.3	527.4	516.1	514.2	506.2
52.5°	553.6	520.3	502.2	488.4	480.2	474.7	472.3
55°	480.6	458.4	442.1	434.2	427.8	422.4	422.4
57.5°	420.5	402.0	391.2	384.5	382.5	378.6	376.2
60°	383.4	367.6	359.2	353.3	349.4	349.9	345.4
62.5°	347.0	336.9	328.9	322.9	318.2	318.3	318.6
65°	295.6	287.7	281.7	279.7	276.8	273.3	274.4
67.5°	250.4	243.1	238.5	235.1	234.1	232.2	235.1
70°	218.1	212.6	209.2	206.2	205.3	205.8	208.2
72.5°	188.5	184.6	182.4	181.0	178.8	178.9	180.6
75°	148.1	145.1	143.1	141.6	141.1	141.1	141.1
77.5°	108.8	108.1	107.2	105.0	105.1	105.7	105.8
80°	85.9	84.4	83.9	82.9	81.4	80.4	82.9
82.5°	64.2	62.7	62.2	62.0	59.7	59.5	61.5
85°	34.5	33.1	33.6	33.1	33.1	32.6	32.6
87.5°	19.8	19.7	19.5	20.0	19.7	19.4	20.4
90°	37.9	39.2	40.2	40.7	41.4	42.0	42.6
92.5°	57.6	58.6	58.9	58.5	58.2	57.8	57.4
95°	109.0	110.2	110.8	110.8	110.8	110.8	110.8
97.5°	168.9	170.4	171.1	171.0	170.8	170.7	170.6
100°	211.8	212.7	213.5	214.1	214.8	215.4	216.0
102.5°	261.8	262.8	263.2	263.1	262.9	262.8	262.7
105°	335.5	335.5	335.7	336.4	337.1	337.6	338.3
107.5°	417.2	418.2	418.5	418.1	417.7	417.4	417.0
110°	471.4	472.7	473.0	472.3	471.7	471.1	470.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	525.6	527.1	527.8	527.7	527.5	527.4	527.3
115°	606.4	606.7	606.7	606.4	606.1	605.8	605.5
117.5°	688.9	688.8	688.3	687.4	686.5	685.7	684.8
120°	743.9	743.5	743.0	742.4	741.8	741.1	740.5
122.5°	799.2	798.3	797.5	796.6	795.7	794.8	793.9
125°	881.7	880.4	879.1	877.9	876.7	875.3	874.1
127.5°	963.2	961.4	959.8	958.4	956.9	955.5	953.9
130°	1018.1	1016.9	1015.1	1013.0	1010.7	1008.5	1006.3
132.5°	1070.8	1069.3	1067.7	1066.0	1064.3	1062.5	1060.8
135°	1150.3	1149.1	1148.1	1147.5	1146.8	1146.2	1145.6
137.5°	1227.8	1226.4	1225.1	1223.9	1222.8	1221.5	1220.3
140°	1279.7	1279.3	1278.1	1275.8	1273.7	1271.4	1269.2
142.5°	1327.4	1327.1	1326.1	1324.4	1322.7	1321.0	1319.3
145°	1397.6	1397.3	1396.5	1395.2	1394.0	1392.7	1391.5
147.5°	1464.2	1464.2	1463.3	1461.4	1459.5	1457.5	1455.7
150°	1505.1	1505.1	1504.2	1502.3	1500.4	1498.5	1496.7
152.5°	1543.0	1543.6	1543.0	1541.3	1539.7	1538.0	1536.4
155°	1598.5	1599.8	1599.3	1597.0	1594.9	1592.6	1590.4
157.5°	1645.6	1646.9	1646.7	1644.9	1643.1	1641.3	1639.6
160°	1674.8	1676.3	1676.5	1675.3	1674.0	1672.7	1671.4
162.5°	1702.0	1703.6	1703.5	1701.4	1699.4	1697.3	1695.4
165°	1736.8	1738.7	1738.6	1736.4	1734.2	1731.9	1729.8
167.5°	1764.9	1766.8	1766.8	1764.9	1762.9	1761.0	1759.0
170°	1780.5	1782.6	1782.6	1780.5	1778.2	1776.0	1773.8
172.5°	1792.2	1794.1	1794.0	1791.8	1789.6	1787.3	1785.2
175°	1805.1	1806.9	1806.8	1804.6	1802.3	1800.2	1798.0
177.5°	1810.4	1811.9	1811.8	1810.1	1808.3	1806.6	1804.8
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3

(END OF REPORT)