

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: P332446-840

Luminaire Tested: **S123RDIW-S775D1535U840-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332446-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123RDIW-S775D1535U840-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1535 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9277.8 lumens  
Efficiency: N/A  
Efficacy: 136.2 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

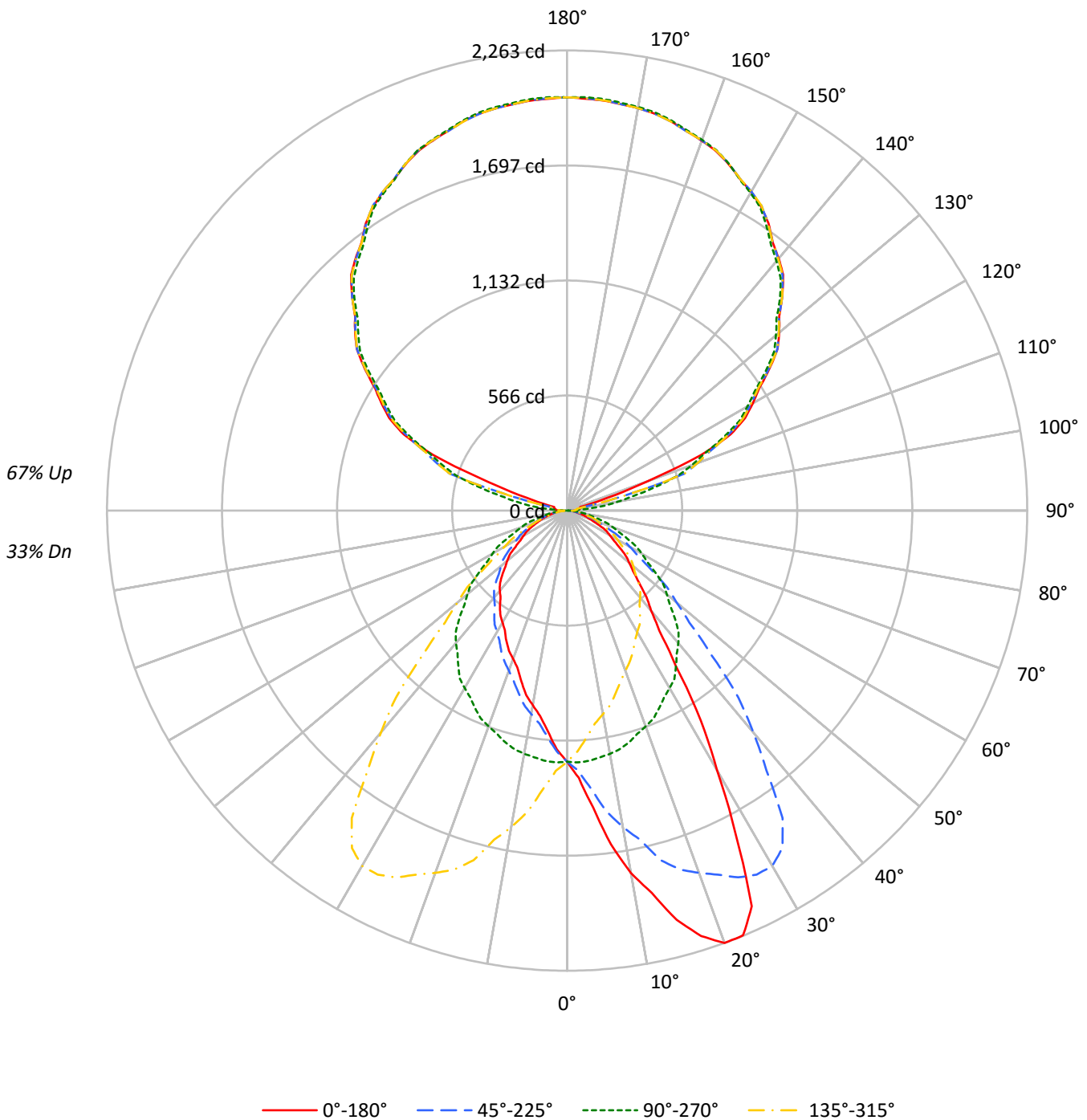
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	87	83	85	82	79	76	65	63	61	50	49	48	37	36	35	29
2	86	79	74	69	78	72	67	63	58	54	51	45	42	40	33	31	30	25
3	79	70	63	58	71	63	58	53	51	47	44	40	37	35	29	28	26	21
4	72	62	55	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18	15
7	57	45	37	32	51	41	34	30	33	29	25	26	23	20	20	18	16	13
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10

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

	0°	90°	180°	270°
0°	13295	13295	13295	13295
5°	15847	13351	11757	13351
10°	19787	13274	10622	13274
15°	23226	13138	9686	13138
20°	25921	12936	8891	12936
25°	25508	12722	8402	12722
30°	18334	12525	7899	12525
35°	12242	12269	7573	12269
40°	9020	11960	7235	11960
45°	7566	11420	6905	11420
50°	6677	10712	6445	10712
55°	5853	9903	5814	9903
60°	5214	9128	5326	9128
65°	4579	8295	4956	8295
70°	3594	7553	4526	7553
75°	3165	6596	4134	6596
80°	2752	5604	4060	5604
85°	2223	4508	4310	4508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.5	1.3
10°-20°	379.5	4.1
20°-30°	596.1	6.4
30°-40°	621.9	6.7
40°-50°	532.3	5.7
50°-60°	405.7	4.4
60°-70°	260.0	2.8
70°-80°	125.1	1.3
80°-90°	38.8	0.4
90°-100°	73.9	0.8
100°-110°	352.1	3.8
110°-120°	845.8	9.1
120°-130°	1077.0	11.6
130°-140°	1150.8	12.4
140°-150°	1076.1	11.6
150°-160°	868.0	9.4
160°-170°	560.2	6.0
170°-180°	193.1	2.1
0°-30°	1097.0	11.8
0°-40°	1719.0	18.5
0°-60°	2656.9	28.6
0°-90°	3080.8	33.2
90°-120°	1271.8	13.7
90°-150°	4575.6	49.3
90°-180°	6197.0	66.8
0°-180°	9277.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1235	1235	1235	1235	1235	
5°	1467	1236	1088	1236	1467	151
15°	2084	1179	869	1179	2084	591
25°	2148	1071	707	1071	2148	923
35°	932	934	576	934	932	611
45°	497	750	454	750	497	391
55°	312	528	310	528	312	282
65°	180	326	195	326	180	177
75°	76	159	99	159	76	82
85°	18	36	35	36	18	22
90°	45	2	45	2	45	21
95°	57	92	57	92	57	48
105°	66	450	66	450	66	152
115°	888	844	888	844	888	820
125°	1214	1190	1214	1190	1214	1084
135°	1496	1481	1496	1481	1496	1154
145°	1726	1709	1726	1709	1726	1077
155°	1880	1883	1880	1883	1880	867
165°	1981	1985	1981	1985	1981	559
175°	2025	2032	2025	2032	2025	193
180°	2032	2032	2032	2032	2032	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1315.5	1317.2	1311.6	1310.8	1304.4	1302.7	1302.7	1293.8	1288.4	1281.2	1277.0
5°	1466.6	1475.1	1470.9	1461.4	1445.5	1441.8	1431.8	1415.9	1398.0	1375.7	1365.1
7.5°	1655.5	1667.1	1662.6	1647.9	1631.3	1617.9	1589.5	1563.2	1526.3	1493.9	1466.2
10°	1810.3	1798.2	1788.7	1774.3	1759.1	1734.1	1704.6	1663.9	1616.8	1579.8	1538.5
12.5°	1926.2	1924.2	1912.2	1897.4	1875.8	1852.2	1815.8	1766.3	1711.5	1658.1	1610.9
15°	2084.2	2087.4	2079.4	2064.1	2033.5	1991.7	1936.7	1916.0	1837.9	1779.7	1721.5
17.5°	2193.5	2192.9	2191.8	2170.6	2139.3	2109.6	2058.6	2004.4	1933.5	1851.6	1773.2
20°	2262.9	2257.7	2258.7	2234.8	2211.6	2177.3	2127.6	2048.8	1990.6	1896.0	1815.0
22.5°	2261.2	2260.2	2264.2	2256.0	2239.1	2212.8	2173.6	2107.2	2033.0	1937.4	1846.3
25°	2147.7	2143.4	2168.3	2175.1	2202.1	2206.9	2195.2	2158.8	2088.4	1990.0	1877.4
27.5°	1797.5	1795.1	1841.2	1899.0	1972.1	2029.0	2084.0	2110.5	2088.4	2018.0	1905.2
30°	1475.1	1524.8	1548.1	1631.6	1724.6	1835.7	1933.0	2025.5	2048.2	2017.6	1925.0
32.5°	1224.8	1268.1	1287.5	1359.2	1445.9	1576.0	1721.9	1852.9	1945.5	1968.9	1913.2
35°	931.6	932.1	976.5	1008.2	1088.6	1222.3	1364.1	1539.6	1714.0	1846.2	1860.0
37.5°	743.4	746.0	772.8	804.5	864.7	935.5	1060.3	1206.2	1407.8	1610.6	1729.6
40°	641.9	646.6	666.7	697.9	741.2	794.7	891.9	1029.5	1197.5	1423.3	1607.8
42.5°	576.7	584.4	594.8	618.8	645.7	695.7	774.4	880.5	1033.4	1246.9	1459.8
45°	497.0	501.2	509.2	520.3	544.6	579.5	632.4	703.7	830.6	1002.5	1215.5
47.5°	438.4	436.2	444.5	453.5	469.7	493.5	529.0	587.2	677.7	815.6	996.3
50°	398.7	398.1	403.9	410.8	426.2	443.6	472.7	516.5	588.4	702.7	868.2
52.5°	361.4	363.5	367.6	376.2	387.2	401.3	427.4	459.0	520.8	619.4	757.3
55°	311.9	313.6	319.3	324.1	332.0	346.3	362.7	389.1	431.4	500.2	613.8
57.5°	270.0	269.3	274.9	276.1	285.1	296.7	309.4	329.9	360.6	411.6	488.2
60°	242.2	240.5	245.3	249.0	253.8	263.3	273.9	294.0	318.3	355.8	421.4
62.5°	216.8	216.0	219.5	223.2	227.1	235.8	244.7	260.1	279.3	311.0	363.0
65°	179.8	181.4	182.9	184.5	186.6	191.9	200.4	211.0	224.2	246.4	283.9
67.5°	141.3	142.9	143.4	146.6	151.2	154.5	159.7	169.1	178.2	197.0	218.3
70°	114.2	113.7	114.2	115.8	121.6	127.4	134.3	141.2	146.9	160.2	178.1
72.5°	98.2	97.1	98.6	98.9	101.7	103.3	107.7	114.1	121.6	130.6	143.5
75°	76.1	76.1	76.1	76.1	78.3	79.3	80.9	82.5	85.1	89.4	98.9
77.5°	56.2	56.4	57.1	57.7	58.1	58.7	59.7	61.2	62.2	64.4	68.6
80°	44.4	44.9	44.4	44.9	44.9	45.9	46.6	48.1	48.7	51.3	52.9
82.5°	33.4	33.1	33.4	33.9	33.9	35.0	35.1	36.3	36.4	37.8	39.4
85°	18.0	17.0	18.0	17.5	18.5	17.5	18.0	19.0	19.0	19.6	21.7
87.5°	13.3	14.0	13.0	13.3	13.1	13.4	13.1	12.8	13.4	12.7	12.3
90°	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9	37.6	36.3	31.9
92.5°	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9	40.8	38.7	35.3
95°	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5	49.2	46.8	43.1
97.5°	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0	51.3	48.6	42.8
100°	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1	52.5	49.8	42.2
102.5°	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7	91.0	99.4	156.5
105°	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9	271.2	330.6	360.8
107.5°	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9	562.5	606.0	601.3
110°	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7	669.8	680.9	677.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4	757.2	757.0	753.3
115°	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3	869.9	866.6	863.5
117.5°	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3	975.5	972.9	971.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1	1044.4	1041.7	1040.7
122.5°	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3	1112.5	1110.5	1109.2
125°	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1	1208.5	1207.8	1206.5
127.5°	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1	1303.0	1302.0	1300.4
130°	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4	1360.1	1358.8	1357.5
132.5°	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8	1414.4	1413.1	1412.0
135°	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1	1494.8
137.5°	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6	1569.9	1568.3	1567.6
140°	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1	1616.8	1615.4	1614.4
142.5°	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2	1661.1	1660.1	1659.1
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9	1723.2	1722.6	1721.9
147.5°	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2	1778.6	1777.9	1777.2
150°	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0	1812.3	1811.7	1811.0
152.5°	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1	1841.9	1840.7	1840.3
155°	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5	1882.8	1881.1	1880.8
157.5°	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5	1918.4	1916.4	1916.8
160°	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1	1939.0	1937.0	1937.3
162.5°	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6	1957.4	1955.1	1955.4
165°	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6	1982.0	1979.2	1979.6
167.5°	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6	1998.6
170°	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4	2009.4
172.5°	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1	2019.4	2016.7	2016.4
175°	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7	2028.4	2026.1	2025.7
177.5°	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0	2031.8	2029.7	2029.4
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1275.3	1273.9	1268.1	1261.3	1252.4	1246.5	1241.8	1239.3	1231.7	1222.3	1216.1
5°	1354.0	1338.2	1321.3	1300.6	1281.6	1262.0	1249.9	1235.6	1218.2	1198.6	1184.9
7.5°	1438.5	1407.3	1373.8	1339.3	1305.0	1274.4	1247.4	1224.2	1196.4	1168.3	1148.7
10°	1503.2	1457.6	1410.6	1362.5	1318.6	1277.4	1245.7	1214.5	1181.1	1148.9	1124.6
12.5°	1562.0	1502.1	1447.8	1388.8	1332.6	1283.3	1237.6	1200.9	1160.8	1126.5	1098.7
15°	1636.4	1575.1	1509.4	1419.6	1345.0	1282.6	1227.2	1179.0	1130.4	1088.1	1061.2
17.5°	1706.0	1613.7	1525.6	1450.6	1353.7	1275.8	1208.0	1150.4	1097.1	1052.3	1019.1
20°	1734.7	1645.4	1549.6	1454.0	1358.8	1271.5	1192.8	1129.3	1073.8	1023.1	992.4
22.5°	1752.0	1650.8	1550.0	1447.2	1346.2	1255.5	1177.6	1107.7	1047.6	999.4	961.5
25°	1772.2	1651.7	1540.7	1439.2	1336.1	1237.7	1145.2	1071.2	1006.1	954.8	914.6
27.5°	1785.5	1643.8	1512.6	1399.7	1295.2	1197.2	1112.4	1034.0	968.0	913.7	870.6
30°	1788.1	1637.4	1491.0	1368.9	1262.5	1172.7	1082.8	1007.7	938.0	880.3	840.1
32.5°	1791.5	1621.7	1461.8	1332.0	1223.2	1134.2	1052.8	981.1	909.6	852.8	811.8
35°	1777.6	1613.2	1417.4	1268.4	1159.4	1073.3	999.8	933.7	863.4	808.4	766.6
37.5°	1717.5	1578.7	1371.6	1196.7	1082.8	1003.0	943.1	885.4	821.0	761.6	722.4
40°	1657.0	1544.9	1336.1	1153.2	1034.2	952.2	898.3	851.2	788.8	733.4	691.1
42.5°	1566.9	1498.8	1302.2	1107.4	979.2	900.2	854.7	810.6	755.9	699.5	659.7
45°	1401.6	1410.6	1232.9	1034.7	903.0	823.7	780.9	750.2	701.7	655.1	614.4
47.5°	1194.4	1278.4	1151.7	957.2	822.7	748.3	710.9	684.2	651.4	605.7	568.6
50°	1059.0	1179.0	1086.5	905.1	772.4	698.4	661.5	639.7	611.2	575.2	539.8
52.5°	934.2	1063.2	1007.8	847.2	717.9	650.3	614.1	596.2	573.5	539.7	507.7
55°	761.8	892.5	879.8	759.7	636.0	575.2	547.8	527.7	512.3	487.0	461.6
57.5°	616.3	740.1	746.7	662.5	563.9	503.8	480.2	465.0	455.0	435.9	412.4
60°	524.5	638.1	660.4	596.9	512.3	459.5	436.2	424.0	416.1	400.8	382.8
62.5°	448.4	545.1	570.3	524.6	462.8	413.3	395.2	383.4	378.0	364.8	348.9
65°	343.2	423.5	447.8	422.4	390.2	350.5	335.8	325.7	320.9	313.6	301.8
67.5°	258.0	316.6	343.3	325.4	313.8	288.7	279.2	273.9	269.6	264.6	254.9
70°	207.2	250.6	278.1	273.4	263.9	250.6	243.8	240.0	235.8	231.6	223.1
72.5°	166.6	196.5	222.3	224.7	216.9	214.2	208.2	206.6	204.1	199.0	194.4
75°	110.5	131.1	149.1	155.9	159.2	161.8	159.2	158.6	158.0	153.9	151.2
77.5°	72.4	83.5	94.8	106.5	111.6	115.1	116.0	118.0	116.5	114.3	113.0
80°	55.5	58.2	66.0	76.1	84.0	87.3	89.4	90.4	89.9	89.4	87.3
82.5°	40.3	42.5	46.3	53.3	60.0	65.2	66.6	66.3	67.5	67.8	66.0
85°	21.7	22.2	23.2	24.3	28.0	33.8	35.4	36.5	37.6	37.6	34.3
87.5°	12.2	11.0	10.9	10.2	10.8	10.5	12.4	13.8	14.9	13.9	14.5
90°	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5	4.8	8.2	11.6
92.5°	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1	27.2	26.2	25.2
95°	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1	78.4	64.6	50.8
97.5°	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1	178.9	172.8	166.5
100°	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2	261.9	268.5	275.3
102.5°	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9	339.7	344.6	349.3
105°	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9	453.6	457.3	461.0
107.5°	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3	574.2	577.1	580.2
110°	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2	654.9	657.5	660.2





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5	732.0	734.4	736.8
115°	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9	846.0	848.0	850.0
117.5°	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7	957.3	959.7	962.2
120°	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6	1026.6	1029.7	1032.7
122.5°	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7	1096.1	1098.6	1101.1
125°	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6	1192.3	1195.1	1197.7
127.5°	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6	1285.4	1288.1	1290.7
130°	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6	1343.3	1346.0	1348.7
132.5°	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2	1398.9	1401.6	1404.2
135°	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1	1483.1	1485.1	1487.1
137.5°	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5	1556.1	1558.6	1561.2
140°	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8	1603.9	1605.9	1607.9
142.5°	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5	1648.5	1650.5	1652.5
145°	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0	1711.3	1713.7	1716.1
147.5°	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9	1769.5	1771.0	1772.5
150°	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1	1805.1	1806.1	1807.2
152.5°	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7	1837.2	1837.7	1838.2
155°	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6	1882.0	1881.3	1880.7
157.5°	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2	1918.2	1918.1	1918.0
160°	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1	1939.6	1939.3	1939.0
162.5°	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6	1959.6	1958.8	1957.9
165°	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3	1984.3	1983.3	1982.3
167.5°	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6	2003.3	2002.0	2000.6
170°	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5	2014.2	2012.8	2011.4
172.5°	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8	2021.1	2019.5	2017.9
175°	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1	2030.4	2028.7	2027.1
177.5°	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5	2033.2	2031.8	2030.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1214.0	1208.4	1204.7	1196.2	1190.6	1184.8	1178.8	1182.7	1182.2	1181.7	1181.7
5°	1173.3	1161.0	1149.9	1135.7	1126.7	1115.6	1107.1	1106.1	1108.2	1100.8	1096.5
7.5°	1132.9	1116.2	1100.4	1084.7	1068.0	1054.7	1046.3	1042.4	1037.0	1032.5	1027.7
10°	1104.5	1084.9	1069.5	1050.1	1032.1	1016.2	1006.1	999.3	995.5	991.9	985.0
12.5°	1075.3	1056.1	1036.6	1014.5	997.3	979.0	971.5	963.7	956.6	952.5	943.1
15°	1032.6	1007.7	987.1	963.8	944.8	926.9	916.3	900.9	898.8	893.5	884.0
17.5°	989.8	962.8	934.3	917.2	895.6	877.0	860.8	855.7	840.5	834.9	826.6
20°	955.9	931.1	909.4	886.7	855.5	838.0	825.4	818.5	806.3	798.9	793.6
22.5°	926.8	901.5	876.4	849.9	824.2	804.6	795.3	784.6	778.0	767.6	761.8
25°	885.0	857.6	827.5	798.9	780.4	765.6	750.7	741.2	731.7	727.0	716.4
27.5°	836.7	807.9	779.7	758.1	735.4	720.7	707.3	698.8	687.4	679.4	673.6
30°	810.0	776.2	751.8	732.3	703.2	689.4	679.4	668.8	660.4	651.9	646.1
32.5°	779.1	748.2	725.2	700.9	678.6	663.7	650.7	641.4	634.1	626.1	620.3
35°	730.6	704.8	681.0	656.6	640.3	624.9	609.7	601.7	594.8	587.4	582.1
37.5°	686.9	662.7	640.1	617.0	596.7	584.2	571.9	565.8	556.5	551.6	546.1
40°	659.8	636.0	611.7	589.6	568.4	558.9	547.8	538.8	530.3	526.6	520.8
42.5°	630.3	606.4	585.9	562.0	544.7	531.8	521.5	511.7	505.3	500.0	496.7
45°	586.3	565.2	545.1	521.3	504.9	493.8	482.2	473.2	467.4	463.7	457.9
47.5°	543.7	522.6	502.2	481.4	465.5	452.9	441.3	435.0	427.3	422.7	418.9
50°	512.8	493.8	472.1	453.1	437.3	424.5	415.1	407.1	400.2	394.5	391.8
52.5°	484.5	464.2	445.5	427.8	411.0	396.7	388.0	379.6	374.5	367.8	364.7
55°	437.8	418.2	402.3	384.9	368.5	356.4	345.8	338.4	333.1	325.7	321.4
57.5°	393.8	376.4	357.4	342.2	325.4	315.1	306.3	296.3	289.8	284.1	279.9
60°	364.3	344.2	327.8	313.6	298.7	285.5	277.6	269.6	262.8	256.9	253.3
62.5°	333.5	315.9	300.3	284.8	271.2	259.7	250.5	243.9	237.8	234.1	230.5
65°	286.0	272.3	256.4	243.8	231.1	222.6	215.2	209.3	205.1	202.5	199.3
67.5°	242.5	229.1	215.3	202.8	194.4	187.9	183.1	178.0	175.9	172.6	170.5
70°	214.1	200.4	188.2	178.7	170.3	165.5	162.3	158.6	156.5	152.3	150.2
72.5°	183.3	173.3	164.5	156.7	150.0	145.6	141.6	137.0	133.7	129.0	126.9
75°	144.3	135.3	128.5	123.2	119.0	113.1	107.3	102.6	101.0	99.4	98.9
77.5°	106.9	101.2	96.2	91.8	86.5	82.3	81.0	80.0	79.6	78.8	78.8
80°	84.0	78.8	75.0	69.8	66.7	66.7	66.7	65.5	66.0	66.0	66.0
82.5°	62.5	57.7	55.6	53.7	53.1	53.5	53.5	53.7	53.4	54.2	53.8
85°	32.2	32.8	33.8	33.3	33.8	33.8	34.9	34.3	34.9	33.8	34.9
87.5°	14.8	16.9	18.2	19.5	20.8	21.2	21.9	22.1	22.8	23.1	23.3
90°	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9	40.3	41.6	42.6
92.5°	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9	45.1	47.3	48.5
95°	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5	53.8	56.1	57.4
97.5°	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0	56.7	59.4	60.9
100°	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1	57.9	60.6	62.1
102.5°	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7	74.4	66.0	62.2
105°	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9	152.5	93.1	63.7
107.5°	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9	475.3	431.8	387.7
110°	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7	647.6	636.6	607.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4	757.6	757.8	752.9
115°	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3	876.7	880.0	882.3
117.5°	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3	980.9	983.6	985.1
120°	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1	1049.8	1052.5	1053.8
122.5°	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3	1116.2	1118.1	1119.1
125°	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1	1209.8	1210.4	1211.1
127.5°	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1	1305.3	1306.3	1306.5
130°	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4	1362.8	1364.1	1364.4
132.5°	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8	1417.1	1418.5	1418.7
135°	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2
137.5°	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6	1573.2	1574.8	1575.2
140°	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1	1619.4	1620.7	1621.1
142.5°	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2	1663.3	1664.4	1664.5
145°	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9	1724.6	1725.3	1725.7
147.5°	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2	1779.9	1780.6	1780.1
150°	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0	1813.7	1814.3	1814.2
152.5°	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1	1844.3	1845.5	1845.3
155°	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5	1886.1	1887.8	1887.6
157.5°	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5	1922.5	1924.5	1924.2
160°	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1	1943.0	1945.0	1944.9
162.5°	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6	1962.0	1964.2	1964.3
165°	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6	1987.3	1990.0	1990.1
167.5°	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3
170°	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2
172.5°	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1	2024.8	2027.4	2027.3
175°	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7	2033.1	2035.5	2035.3
177.5°	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0	2036.1	2038.3	2038.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1176.7	1176.3	1176.7	1175.0	1176.7	1176.3	1176.7	1181.7	1181.7	1182.2	1182.7
5°	1095.0	1094.4	1092.9	1088.1	1092.9	1094.4	1095.0	1096.5	1100.8	1108.2	1106.1
7.5°	1023.6	1022.9	1018.2	1018.3	1018.2	1022.9	1023.6	1027.7	1032.5	1037.0	1042.4
10°	981.3	981.8	975.5	971.8	975.5	981.8	981.3	985.0	991.9	995.5	999.3
12.5°	940.3	937.9	932.7	928.7	932.7	937.9	940.3	943.1	952.5	956.6	963.7
15°	886.2	880.8	868.2	869.2	868.2	880.8	886.2	884.0	893.5	898.8	900.9
17.5°	822.3	818.5	818.2	810.8	818.2	818.5	822.3	826.6	834.9	840.5	855.7
20°	785.2	782.5	783.6	776.2	783.6	782.5	785.2	793.6	798.9	806.3	818.5
22.5°	756.0	753.4	748.9	746.6	748.9	753.4	756.0	761.8	767.6	778.0	784.6
25°	713.3	709.0	704.8	707.4	704.8	709.0	713.3	716.4	727.0	731.7	741.2
27.5°	670.6	667.3	663.1	662.6	663.1	667.3	670.6	673.6	679.4	687.4	698.8
30°	643.5	640.3	638.1	635.5	638.1	640.3	643.5	646.1	651.9	660.4	668.8
32.5°	615.9	615.3	611.5	611.0	611.5	615.3	615.9	620.3	626.1	634.1	641.4
35°	580.0	576.8	575.7	576.3	575.7	576.8	580.0	582.1	587.4	594.8	601.7
37.5°	545.8	541.6	539.7	537.9	539.7	541.6	545.8	546.1	551.6	556.5	565.8
40°	521.3	517.1	516.0	514.9	516.0	517.1	521.3	520.8	526.6	530.3	538.8
42.5°	493.8	492.1	491.5	489.6	491.5	492.1	493.8	496.7	500.0	505.3	511.7
45°	456.3	455.8	452.6	453.6	452.6	455.8	456.3	457.9	463.7	467.4	473.2
47.5°	416.8	414.4	412.2	413.6	412.2	414.4	416.8	418.9	422.7	427.3	435.0
50°	389.7	388.6	383.8	384.9	383.8	388.6	389.7	391.8	394.5	400.2	407.1
52.5°	362.6	358.6	356.8	356.2	356.8	358.6	362.6	364.7	367.8	374.5	379.6
55°	317.8	313.0	310.8	309.8	310.8	313.0	317.8	321.4	325.7	333.1	338.4
57.5°	273.8	272.5	270.8	272.0	270.8	272.5	273.8	279.9	284.1	289.8	296.3
60°	247.9	247.9	247.9	247.4	247.9	247.9	247.9	253.3	256.9	262.8	269.6
62.5°	228.1	226.8	226.4	227.1	226.4	226.8	228.1	230.5	234.1	237.8	243.9
65°	197.7	197.2	195.1	194.6	195.1	197.2	197.7	199.3	202.5	205.1	209.3
67.5°	169.1	167.1	166.5	165.8	166.5	167.1	169.1	170.5	172.6	175.9	178.0
70°	147.5	146.4	143.3	143.8	143.3	146.4	147.5	150.2	152.3	156.5	158.6
72.5°	124.2	123.2	122.6	121.8	122.6	123.2	124.2	126.9	129.0	133.7	137.0
75°	98.4	97.9	97.3	99.4	97.3	97.9	98.4	98.9	99.4	101.0	102.6
77.5°	78.8	78.8	79.1	78.3	79.1	78.8	78.8	78.8	78.8	79.6	80.0
80°	66.0	66.0	65.5	65.5	65.5	66.0	66.0	66.0	66.0	66.0	65.5
82.5°	53.0	53.4	53.7	52.9	53.7	53.4	53.0	53.8	54.2	53.4	53.7
85°	34.9	34.3	35.4	34.9	35.4	34.3	34.9	34.9	33.8	34.9	34.3
87.5°	24.3	23.6	23.7	24.2	23.7	23.6	24.3	23.3	23.1	22.8	22.1
90°	43.3	43.9	44.6	45.2	44.6	43.9	43.3	42.6	41.6	40.3	38.9
92.5°	48.9	49.3	49.7	50.1	49.7	49.3	48.9	48.5	47.3	45.1	42.9
95°	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	56.1	53.8	51.5
97.5°	61.2	61.5	61.9	62.2	61.9	61.5	61.2	60.9	59.4	56.7	54.0
100°	62.4	62.7	63.1	63.4	63.1	62.7	62.4	62.1	60.6	57.9	55.1
102.5°	62.8	63.4	64.0	64.6	64.0	63.4	62.8	62.2	66.0	74.4	82.7
105°	64.4	65.1	65.7	66.4	65.7	65.1	64.4	63.7	93.1	152.5	211.9
107.5°	343.0	298.1	253.4	208.6	253.4	298.1	343.0	387.7	431.8	475.3	518.9
110°	559.1	511.1	463.1	415.2	463.1	511.1	559.1	607.0	636.6	647.6	658.7



TEST NUMBER: P332446-840

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	742.7	732.6	722.5	712.3	722.5	732.6	742.7	752.9	757.8	757.6	757.4
115°	883.7	885.0	886.4	887.8	886.4	885.0	883.7	882.3	880.0	876.7	873.3
117.5°	985.3	985.6	985.9	986.1	985.9	985.6	985.3	985.1	983.6	980.9	978.3
120°	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1053.8	1052.5	1049.8	1047.1
122.5°	1119.4	1119.6	1119.9	1120.2	1119.9	1119.6	1119.4	1119.1	1118.1	1116.2	1114.3
125°	1211.8	1212.4	1213.2	1213.9	1213.2	1212.4	1211.8	1211.1	1210.4	1209.8	1209.1
127.5°	1305.9	1305.1	1304.4	1303.8	1304.4	1305.1	1305.9	1306.5	1306.3	1305.3	1304.1
130°	1363.8	1363.1	1362.4	1361.8	1362.4	1363.1	1363.8	1364.4	1364.1	1362.8	1361.4
132.5°	1417.7	1416.8	1415.8	1414.9	1415.8	1416.8	1417.7	1418.7	1418.5	1417.1	1415.8
135°	1499.1	1498.1	1497.1	1496.1	1497.1	1498.1	1499.1	1500.2	1500.2	1499.1	1498.1
137.5°	1574.6	1573.9	1573.2	1572.6	1573.2	1573.9	1574.6	1575.2	1574.8	1573.2	1571.6
140°	1620.4	1619.8	1619.1	1618.4	1619.1	1619.8	1620.4	1621.1	1620.7	1619.4	1618.1
142.5°	1663.6	1662.5	1661.6	1660.7	1661.6	1662.5	1663.6	1664.5	1664.4	1663.3	1662.2
145°	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.7	1725.3	1724.6	1723.9
147.5°	1778.6	1777.1	1775.4	1773.9	1775.4	1777.1	1778.6	1780.1	1780.6	1779.9	1779.2
150°	1813.2	1812.2	1811.2	1810.2	1811.2	1812.2	1813.2	1814.2	1814.3	1813.7	1813.0
152.5°	1843.8	1842.2	1840.7	1839.2	1840.7	1842.2	1843.8	1845.3	1845.5	1844.3	1843.1
155°	1885.6	1883.6	1881.6	1879.7	1881.6	1883.6	1885.6	1887.6	1887.8	1886.1	1884.5
157.5°	1921.6	1918.9	1916.3	1913.7	1916.3	1918.9	1921.6	1924.2	1924.5	1922.5	1920.5
160°	1942.5	1940.2	1937.8	1935.5	1937.8	1940.2	1942.5	1944.9	1945.0	1943.0	1941.1
162.5°	1962.3	1960.1	1958.1	1956.0	1958.1	1960.1	1962.3	1964.3	1964.2	1962.0	1959.6
165°	1987.8	1985.5	1983.1	1980.7	1983.1	1985.5	1987.8	1990.1	1990.0	1987.3	1984.6
167.5°	2006.6	2004.0	2001.2	1998.6	2001.2	2004.0	2006.6	2009.3	2009.3	2006.6	2004.0
170°	2017.5	2014.8	2012.2	2009.4	2012.2	2014.8	2017.5	2020.2	2020.2	2017.5	2014.8
172.5°	2024.4	2021.4	2018.4	2015.5	2018.4	2021.4	2024.4	2027.3	2027.4	2024.8	2022.1
175°	2032.6	2029.9	2027.2	2024.6	2027.2	2029.9	2032.6	2035.3	2035.5	2033.1	2030.7
177.5°	2035.3	2032.7	2029.9	2027.3	2029.9	2032.7	2035.3	2038.0	2038.3	2036.1	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1178.8	1184.8	1190.6	1196.2	1204.7	1208.4	1214.0	1216.1	1222.3	1231.7	1239.3
5°	1107.1	1115.6	1126.7	1135.7	1149.9	1161.0	1173.3	1184.9	1198.6	1218.2	1235.6
7.5°	1046.3	1054.7	1068.0	1084.7	1100.4	1116.2	1132.9	1148.7	1168.3	1196.4	1224.2
10°	1006.1	1016.2	1032.1	1050.1	1069.5	1084.9	1104.5	1124.6	1148.9	1181.1	1214.5
12.5°	971.5	979.0	997.3	1014.5	1036.6	1056.1	1075.3	1098.7	1126.5	1160.8	1200.9
15°	916.3	926.9	944.8	963.8	987.1	1007.7	1032.6	1061.2	1088.1	1130.4	1179.0
17.5°	860.8	877.0	895.6	917.2	934.3	962.8	989.8	1019.1	1052.3	1097.1	1150.4
20°	825.4	838.0	855.5	886.7	909.4	931.1	955.9	992.4	1023.1	1073.8	1129.3
22.5°	795.3	804.6	824.2	849.9	876.4	901.5	926.8	961.5	999.4	1047.6	1107.7
25°	750.7	765.6	780.4	798.9	827.5	857.6	885.0	914.6	954.8	1006.1	1071.2
27.5°	707.3	720.7	735.4	758.1	779.7	807.9	836.7	870.6	913.7	968.0	1034.0
30°	679.4	689.4	703.2	732.3	751.8	776.2	810.0	840.1	880.3	938.0	1007.7
32.5°	650.7	663.7	678.6	700.9	725.2	748.2	779.1	811.8	852.8	909.6	981.1
35°	609.7	624.9	640.3	656.6	681.0	704.8	730.6	766.6	808.4	863.4	933.7
37.5°	571.9	584.2	596.7	617.0	640.1	662.7	686.9	722.4	761.6	821.0	885.4
40°	547.8	558.9	568.4	589.6	611.7	636.0	659.8	691.1	733.4	788.8	851.2
42.5°	521.5	531.8	544.7	562.0	585.9	606.4	630.3	659.7	699.5	755.9	810.6
45°	482.2	493.8	504.9	521.3	545.1	565.2	586.3	614.4	655.1	701.7	750.2
47.5°	441.3	452.9	465.5	481.4	502.2	522.6	543.7	568.6	605.7	651.4	684.2
50°	415.1	424.5	437.3	453.1	472.1	493.8	512.8	539.8	575.2	611.2	639.7
52.5°	388.0	396.7	411.0	427.8	445.5	464.2	484.5	507.7	539.7	573.5	596.2
55°	345.8	356.4	368.5	384.9	402.3	418.2	437.8	461.6	487.0	512.3	527.7
57.5°	306.3	315.1	325.4	342.2	357.4	376.4	393.8	412.4	435.9	455.0	465.0
60°	277.6	285.5	298.7	313.6	327.8	344.2	364.3	382.8	400.8	416.1	424.0
62.5°	250.5	259.7	271.2	284.8	300.3	315.9	333.5	348.9	364.8	378.0	383.4
65°	215.2	222.6	231.1	243.8	256.4	272.3	286.0	301.8	313.6	320.9	325.7
67.5°	183.1	187.9	194.4	202.8	215.3	229.1	242.5	254.9	264.6	269.6	273.9
70°	162.3	165.5	170.3	178.7	188.2	200.4	214.1	223.1	231.6	235.8	240.0
72.5°	141.6	145.6	150.0	156.7	164.5	173.3	183.3	194.4	199.0	204.1	206.6
75°	107.3	113.1	119.0	123.2	128.5	135.3	144.3	151.2	153.9	158.0	158.6
77.5°	81.0	82.3	86.5	91.8	96.2	101.2	106.9	113.0	114.3	116.5	118.0
80°	66.7	66.7	66.7	69.8	75.0	78.8	84.0	87.3	89.4	89.9	90.4
82.5°	53.5	53.5	53.1	53.7	55.6	57.7	62.5	66.0	67.8	67.5	66.3
85°	34.9	33.8	33.8	33.3	33.8	32.8	32.2	34.3	37.6	37.6	36.5
87.5°	21.9	21.2	20.8	19.5	18.2	16.9	14.8	14.5	13.9	14.9	13.8
90°	37.6	36.3	31.9	27.5	23.1	18.8	14.9	11.6	8.2	4.8	1.5
92.5°	40.8	38.7	35.3	32.1	28.8	25.4	24.3	25.2	26.2	27.2	28.1
95°	49.2	46.8	43.1	39.4	35.7	32.0	37.1	50.8	64.6	78.4	92.1
97.5°	51.3	48.6	72.8	96.9	121.1	145.2	160.4	166.5	172.8	178.9	185.1
100°	52.5	49.8	102.2	154.5	206.8	259.1	282.0	275.3	268.5	261.9	255.2
102.5°	91.0	99.4	156.5	213.7	270.8	328.0	354.2	349.3	344.6	339.7	334.9
105°	271.2	330.6	360.8	391.0	421.2	451.4	464.6	461.0	457.3	453.6	449.9
107.5°	562.5	606.0	601.3	596.5	591.7	586.9	583.1	580.2	577.1	574.2	571.3
110°	669.8	680.9	677.2	673.5	669.8	666.1	663.0	660.2	657.5	654.9	652.2



TEST NUMBER: P332446-840

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	757.2	757.0	753.3	749.6	745.9	742.3	739.1	736.8	734.4	732.0	729.5
115°	869.9	866.6	863.5	860.5	857.6	854.5	852.0	850.0	848.0	846.0	843.9
117.5°	975.5	972.9	971.3	969.8	968.3	966.7	964.7	962.2	959.7	957.3	954.7
120°	1044.4	1041.7	1040.7	1039.7	1038.6	1037.7	1035.7	1032.7	1029.7	1026.6	1023.6
122.5°	1112.5	1110.5	1109.2	1108.0	1106.7	1105.5	1103.6	1101.1	1098.6	1096.1	1093.7
125°	1208.5	1207.8	1206.5	1205.1	1203.8	1202.4	1200.4	1197.7	1195.1	1192.3	1189.6
127.5°	1303.0	1302.0	1300.4	1298.8	1297.2	1295.6	1293.4	1290.7	1288.1	1285.4	1282.6
130°	1360.1	1358.8	1357.5	1356.0	1354.7	1353.4	1351.4	1348.7	1346.0	1343.3	1340.6
132.5°	1414.4	1413.1	1412.0	1411.0	1409.9	1408.9	1406.9	1404.2	1401.6	1398.9	1396.2
135°	1497.1	1496.1	1494.8	1493.5	1492.1	1490.8	1489.1	1487.1	1485.1	1483.1	1481.1
137.5°	1569.9	1568.3	1567.6	1566.8	1566.1	1565.4	1563.7	1561.2	1558.6	1556.1	1553.5
140°	1616.8	1615.4	1614.4	1613.4	1612.4	1611.3	1609.9	1607.9	1605.9	1603.9	1601.8
142.5°	1661.1	1660.1	1659.1	1658.1	1657.1	1656.1	1654.6	1652.5	1650.5	1648.5	1646.5
145°	1723.2	1722.6	1721.9	1721.2	1720.6	1719.9	1718.4	1716.1	1713.7	1711.3	1709.0
147.5°	1778.6	1777.9	1777.2	1776.6	1775.8	1775.1	1774.0	1772.5	1771.0	1769.5	1767.9
150°	1812.3	1811.7	1811.0	1810.4	1809.7	1809.0	1808.2	1807.2	1806.1	1805.1	1804.1
152.5°	1841.9	1840.7	1840.3	1839.9	1839.5	1839.1	1838.7	1838.2	1837.7	1837.2	1836.7
155°	1882.8	1881.1	1880.8	1880.5	1880.2	1879.8	1880.0	1880.7	1881.3	1882.0	1882.6
157.5°	1918.4	1916.4	1916.8	1917.1	1917.4	1917.8	1918.0	1918.0	1918.1	1918.2	1918.2
160°	1939.0	1937.0	1937.3	1937.6	1938.0	1938.3	1938.6	1939.0	1939.3	1939.6	1940.1
162.5°	1957.4	1955.1	1955.4	1955.8	1956.1	1956.4	1957.0	1957.9	1958.8	1959.6	1960.6
165°	1982.0	1979.2	1979.6	1979.9	1980.2	1980.6	1981.3	1982.3	1983.3	1984.3	1985.3
167.5°	2001.2	1998.6	1998.6	1998.6	1998.6	1998.6	1999.2	2000.6	2002.0	2003.3	2004.6
170°	2012.2	2009.4	2009.4	2009.4	2009.4	2009.4	2010.1	2011.4	2012.8	2014.2	2015.5
172.5°	2019.4	2016.7	2016.4	2016.2	2015.9	2015.6	2016.3	2017.9	2019.5	2021.1	2022.8
175°	2028.4	2026.1	2025.7	2025.4	2025.1	2024.7	2025.4	2027.1	2028.7	2030.4	2032.1
177.5°	2031.8	2029.7	2029.4	2029.1	2028.9	2028.6	2029.1	2030.5	2031.8	2033.2	2034.5
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1241.8	1246.5	1252.4	1261.3	1268.1	1273.9	1275.3	1277.0	1281.2	1288.4	1293.8
5°	1249.9	1262.0	1281.6	1300.6	1321.3	1338.2	1354.0	1365.1	1375.7	1398.0	1415.9
7.5°	1247.4	1274.4	1305.0	1339.3	1373.8	1407.3	1438.5	1466.2	1493.9	1526.3	1563.2
10°	1245.7	1277.4	1318.6	1362.5	1410.6	1457.6	1503.2	1538.5	1579.8	1616.8	1663.9
12.5°	1237.6	1283.3	1332.6	1388.8	1447.8	1502.1	1562.0	1610.9	1658.1	1711.5	1766.3
15°	1227.2	1282.6	1345.0	1419.6	1509.4	1575.1	1636.4	1721.5	1779.7	1837.9	1916.0
17.5°	1208.0	1275.8	1353.7	1450.6	1525.6	1613.7	1706.0	1773.2	1851.6	1933.5	2004.4
20°	1192.8	1271.5	1358.8	1454.0	1549.6	1645.4	1734.7	1815.0	1896.0	1990.6	2048.8
22.5°	1177.6	1255.5	1346.2	1447.2	1550.0	1650.8	1752.0	1846.3	1937.4	2033.0	2107.2
25°	1145.2	1237.7	1336.1	1439.2	1540.7	1651.7	1772.2	1877.4	1990.0	2088.4	2158.8
27.5°	1112.4	1197.2	1295.2	1399.7	1512.6	1643.8	1785.5	1905.2	2018.0	2088.4	2110.5
30°	1082.8	1172.7	1262.5	1368.9	1491.0	1637.4	1788.1	1925.0	2017.6	2048.2	2025.5
32.5°	1052.8	1134.2	1223.2	1332.0	1461.8	1621.7	1791.5	1913.2	1968.9	1945.5	1852.9
35°	999.8	1073.3	1159.4	1268.4	1417.4	1613.2	1777.6	1860.0	1846.2	1714.0	1539.6
37.5°	943.1	1003.0	1082.8	1196.7	1371.6	1578.7	1717.5	1729.6	1610.6	1407.8	1206.2
40°	898.3	952.2	1034.2	1153.2	1336.1	1544.9	1657.0	1607.8	1423.3	1197.5	1029.5
42.5°	854.7	900.2	979.2	1107.4	1302.2	1498.8	1566.9	1459.8	1246.9	1033.4	880.5
45°	780.9	823.7	903.0	1034.7	1232.9	1410.6	1401.6	1215.5	1002.5	830.6	703.7
47.5°	710.9	748.3	822.7	957.2	1151.7	1278.4	1194.4	996.3	815.6	677.7	587.2
50°	661.5	698.4	772.4	905.1	1086.5	1179.0	1059.0	868.2	702.7	588.4	516.5
52.5°	614.1	650.3	717.9	847.2	1007.8	1063.2	934.2	757.3	619.4	520.8	459.0
55°	547.8	575.2	636.0	759.7	879.8	892.5	761.8	613.8	500.2	431.4	389.1
57.5°	480.2	503.8	563.9	662.5	746.7	740.1	616.3	488.2	411.6	360.6	329.9
60°	436.2	459.5	512.3	596.9	660.4	638.1	524.5	421.4	355.8	318.3	294.0
62.5°	395.2	413.3	462.8	524.6	570.3	545.1	448.4	363.0	311.0	279.3	260.1
65°	335.8	350.5	390.2	422.4	447.8	423.5	343.2	283.9	246.4	224.2	211.0
67.5°	279.2	288.7	313.8	325.4	343.3	316.6	258.0	218.3	197.0	178.2	169.1
70°	243.8	250.6	263.9	273.4	278.1	250.6	207.2	178.1	160.2	146.9	141.2
72.5°	208.2	214.2	216.9	224.7	222.3	196.5	166.6	143.5	130.6	121.6	114.1
75°	159.2	161.8	159.2	155.9	149.1	131.1	110.5	98.9	89.4	85.1	82.5
77.5°	116.0	115.1	111.6	106.5	94.8	83.5	72.4	68.6	64.4	62.2	61.2
80°	89.4	87.3	84.0	76.1	66.0	58.2	55.5	52.9	51.3	48.7	48.1
82.5°	66.6	65.2	60.0	53.3	46.3	42.5	40.3	39.4	37.8	36.4	36.3
85°	35.4	33.8	28.0	24.3	23.2	22.2	21.7	21.7	19.6	19.0	19.0
87.5°	12.4	10.5	10.8	10.2	10.9	11.0	12.2	12.3	12.7	13.4	12.8
90°	4.8	8.2	11.6	14.9	18.8	23.1	27.5	31.9	36.3	37.6	38.9
92.5°	27.2	26.2	25.2	24.3	25.4	28.8	32.1	35.3	38.7	40.8	42.9
95°	78.4	64.6	50.8	37.1	32.0	35.7	39.4	43.1	46.8	49.2	51.5
97.5°	178.9	172.8	166.5	160.4	145.2	121.1	96.9	72.8	48.6	51.3	54.0
100°	261.9	268.5	275.3	282.0	259.1	206.8	154.5	102.2	49.8	52.5	55.1
102.5°	339.7	344.6	349.3	354.2	328.0	270.8	213.7	156.5	99.4	91.0	82.7
105°	453.6	457.3	461.0	464.6	451.4	421.2	391.0	360.8	330.6	271.2	211.9
107.5°	574.2	577.1	580.2	583.1	586.9	591.7	596.5	601.3	606.0	562.5	518.9
110°	654.9	657.5	660.2	663.0	666.1	669.8	673.5	677.2	680.9	669.8	658.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	732.0	734.4	736.8	739.1	742.3	745.9	749.6	753.3	757.0	757.2	757.4
115°	846.0	848.0	850.0	852.0	854.5	857.6	860.5	863.5	866.6	869.9	873.3
117.5°	957.3	959.7	962.2	964.7	966.7	968.3	969.8	971.3	972.9	975.5	978.3
120°	1026.6	1029.7	1032.7	1035.7	1037.7	1038.6	1039.7	1040.7	1041.7	1044.4	1047.1
122.5°	1096.1	1098.6	1101.1	1103.6	1105.5	1106.7	1108.0	1109.2	1110.5	1112.5	1114.3
125°	1192.3	1195.1	1197.7	1200.4	1202.4	1203.8	1205.1	1206.5	1207.8	1208.5	1209.1
127.5°	1285.4	1288.1	1290.7	1293.4	1295.6	1297.2	1298.8	1300.4	1302.0	1303.0	1304.1
130°	1343.3	1346.0	1348.7	1351.4	1353.4	1354.7	1356.0	1357.5	1358.8	1360.1	1361.4
132.5°	1398.9	1401.6	1404.2	1406.9	1408.9	1409.9	1411.0	1412.0	1413.1	1414.4	1415.8
135°	1483.1	1485.1	1487.1	1489.1	1490.8	1492.1	1493.5	1494.8	1496.1	1497.1	1498.1
137.5°	1556.1	1558.6	1561.2	1563.7	1565.4	1566.1	1566.8	1567.6	1568.3	1569.9	1571.6
140°	1603.9	1605.9	1607.9	1609.9	1611.3	1612.4	1613.4	1614.4	1615.4	1616.8	1618.1
142.5°	1648.5	1650.5	1652.5	1654.6	1656.1	1657.1	1658.1	1659.1	1660.1	1661.1	1662.2
145°	1711.3	1713.7	1716.1	1718.4	1719.9	1720.6	1721.2	1721.9	1722.6	1723.2	1723.9
147.5°	1769.5	1771.0	1772.5	1774.0	1775.1	1775.8	1776.6	1777.2	1777.9	1778.6	1779.2
150°	1805.1	1806.1	1807.2	1808.2	1809.0	1809.7	1810.4	1811.0	1811.7	1812.3	1813.0
152.5°	1837.2	1837.7	1838.2	1838.7	1839.1	1839.5	1839.9	1840.3	1840.7	1841.9	1843.1
155°	1882.0	1881.3	1880.7	1880.0	1879.8	1880.2	1880.5	1880.8	1881.1	1882.8	1884.5
157.5°	1918.2	1918.1	1918.0	1918.0	1917.8	1917.4	1917.1	1916.8	1916.4	1918.4	1920.5
160°	1939.6	1939.3	1939.0	1938.6	1938.3	1938.0	1937.6	1937.3	1937.0	1939.0	1941.1
162.5°	1959.6	1958.8	1957.9	1957.0	1956.4	1956.1	1955.8	1955.4	1955.1	1957.4	1959.6
165°	1984.3	1983.3	1982.3	1981.3	1980.6	1980.2	1979.9	1979.6	1979.2	1982.0	1984.6
167.5°	2003.3	2002.0	2000.6	1999.2	1998.6	1998.6	1998.6	1998.6	1998.6	2001.2	2004.0
170°	2014.2	2012.8	2011.4	2010.1	2009.4	2009.4	2009.4	2009.4	2009.4	2012.2	2014.8
172.5°	2021.1	2019.5	2017.9	2016.3	2015.6	2015.9	2016.2	2016.4	2016.7	2019.4	2022.1
175°	2030.4	2028.7	2027.1	2025.4	2024.7	2025.1	2025.4	2025.7	2026.1	2028.4	2030.7
177.5°	2033.2	2031.8	2030.5	2029.1	2028.6	2028.9	2029.1	2029.4	2029.7	2031.8	2034.0
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1302.7	1302.7	1304.4	1310.8	1311.6	1317.2	1315.5
5°	1431.8	1441.8	1445.5	1461.4	1470.9	1475.1	1466.6
7.5°	1589.5	1617.9	1631.3	1647.9	1662.6	1667.1	1655.5
10°	1704.6	1734.1	1759.1	1774.3	1788.7	1798.2	1810.3
12.5°	1815.8	1852.2	1875.8	1897.4	1912.2	1924.2	1926.2
15°	1936.7	1991.7	2033.5	2064.1	2079.4	2087.4	2084.2
17.5°	2058.6	2109.6	2139.3	2170.6	2191.8	2192.9	2193.5
20°	2127.6	2177.3	2211.6	2234.8	2258.7	2257.7	2262.9
22.5°	2173.6	2212.8	2239.1	2256.0	2264.2	2260.2	2261.2
25°	2195.2	2206.9	2202.1	2175.1	2168.3	2143.4	2147.7
27.5°	2084.0	2029.0	1972.1	1899.0	1841.2	1795.1	1797.5
30°	1933.0	1835.7	1724.6	1631.6	1548.1	1524.8	1475.1
32.5°	1721.9	1576.0	1445.9	1359.2	1287.5	1268.1	1224.8
35°	1364.1	1222.3	1088.6	1008.2	976.5	932.1	931.6
37.5°	1060.3	935.5	864.7	804.5	772.8	746.0	743.4
40°	891.9	794.7	741.2	697.9	666.7	646.6	641.9
42.5°	774.4	695.7	645.7	618.8	594.8	584.4	576.7
45°	632.4	579.5	544.6	520.3	509.2	501.2	497.0
47.5°	529.0	493.5	469.7	453.5	444.5	436.2	438.4
50°	472.7	443.6	426.2	410.8	403.9	398.1	398.7
52.5°	427.4	401.3	387.2	376.2	367.6	363.5	361.4
55°	362.7	346.3	332.0	324.1	319.3	313.6	311.9
57.5°	309.4	296.7	285.1	276.1	274.9	269.3	270.0
60°	273.9	263.3	253.8	249.0	245.3	240.5	242.2
62.5°	244.7	235.8	227.1	223.2	219.5	216.0	216.8
65°	200.4	191.9	186.6	184.5	182.9	181.4	179.8
67.5°	159.7	154.5	151.2	146.6	143.4	142.9	141.3
70°	134.3	127.4	121.6	115.8	114.2	113.7	114.2
72.5°	107.7	103.3	101.7	98.9	98.6	97.1	98.2
75°	80.9	79.3	78.3	76.1	76.1	76.1	76.1
77.5°	59.7	58.7	58.1	57.7	57.1	56.4	56.2
80°	46.6	45.9	44.9	44.9	44.4	44.9	44.4
82.5°	35.1	35.0	33.9	33.9	33.4	33.1	33.4
85°	18.0	17.5	18.5	17.5	18.0	17.0	18.0
87.5°	13.1	13.4	13.1	13.3	13.0	14.0	13.3
90°	40.3	41.6	42.6	43.3	43.9	44.6	45.2
92.5°	45.1	47.3	48.5	48.9	49.3	49.7	50.1
95°	53.8	56.1	57.4	57.4	57.4	57.4	57.4
97.5°	56.7	59.4	60.9	61.2	61.5	61.9	62.2
100°	57.9	60.6	62.1	62.4	62.7	63.1	63.4
102.5°	74.4	66.0	62.2	62.8	63.4	64.0	64.6
105°	152.5	93.1	63.7	64.4	65.1	65.7	66.4
107.5°	475.3	431.8	387.7	343.0	298.1	253.4	208.6
110°	647.6	636.6	607.0	559.1	511.1	463.1	415.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	757.6	757.8	752.9	742.7	732.6	722.5	712.3
115°	876.7	880.0	882.3	883.7	885.0	886.4	887.8
117.5°	980.9	983.6	985.1	985.3	985.6	985.9	986.1
120°	1049.8	1052.5	1053.8	1053.8	1053.8	1053.8	1053.8
122.5°	1116.2	1118.1	1119.1	1119.4	1119.6	1119.9	1120.2
125°	1209.8	1210.4	1211.1	1211.8	1212.4	1213.2	1213.9
127.5°	1305.3	1306.3	1306.5	1305.9	1305.1	1304.4	1303.8
130°	1362.8	1364.1	1364.4	1363.8	1363.1	1362.4	1361.8
132.5°	1417.1	1418.5	1418.7	1417.7	1416.8	1415.8	1414.9
135°	1499.1	1500.2	1500.2	1499.1	1498.1	1497.1	1496.1
137.5°	1573.2	1574.8	1575.2	1574.6	1573.9	1573.2	1572.6
140°	1619.4	1620.7	1621.1	1620.4	1619.8	1619.1	1618.4
142.5°	1663.3	1664.4	1664.5	1663.6	1662.5	1661.6	1660.7
145°	1724.6	1725.3	1725.7	1725.7	1725.7	1725.7	1725.7
147.5°	1779.9	1780.6	1780.1	1778.6	1777.1	1775.4	1773.9
150°	1813.7	1814.3	1814.2	1813.2	1812.2	1811.2	1810.2
152.5°	1844.3	1845.5	1845.3	1843.8	1842.2	1840.7	1839.2
155°	1886.1	1887.8	1887.6	1885.6	1883.6	1881.6	1879.7
157.5°	1922.5	1924.5	1924.2	1921.6	1918.9	1916.3	1913.7
160°	1943.0	1945.0	1944.9	1942.5	1940.2	1937.8	1935.5
162.5°	1962.0	1964.2	1964.3	1962.3	1960.1	1958.1	1956.0
165°	1987.3	1990.0	1990.1	1987.8	1985.5	1983.1	1980.7
167.5°	2006.6	2009.3	2009.3	2006.6	2004.0	2001.2	1998.6
170°	2017.5	2020.2	2020.2	2017.5	2014.8	2012.2	2009.4
172.5°	2024.8	2027.4	2027.3	2024.4	2021.4	2018.4	2015.5
175°	2033.1	2035.5	2035.3	2032.6	2029.9	2027.2	2024.6
177.5°	2036.1	2038.3	2038.0	2035.3	2032.7	2029.9	2027.3
180°	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1	2032.1

(END OF REPORT)