

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: P332446-830

Luminaire Tested: **S123RDIW-S775D1535U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332446-830  
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-S775D1535U830-4F0-1E-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: 8659.3 lumens  
Efficiency: N/A  
Efficacy: 127.2 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

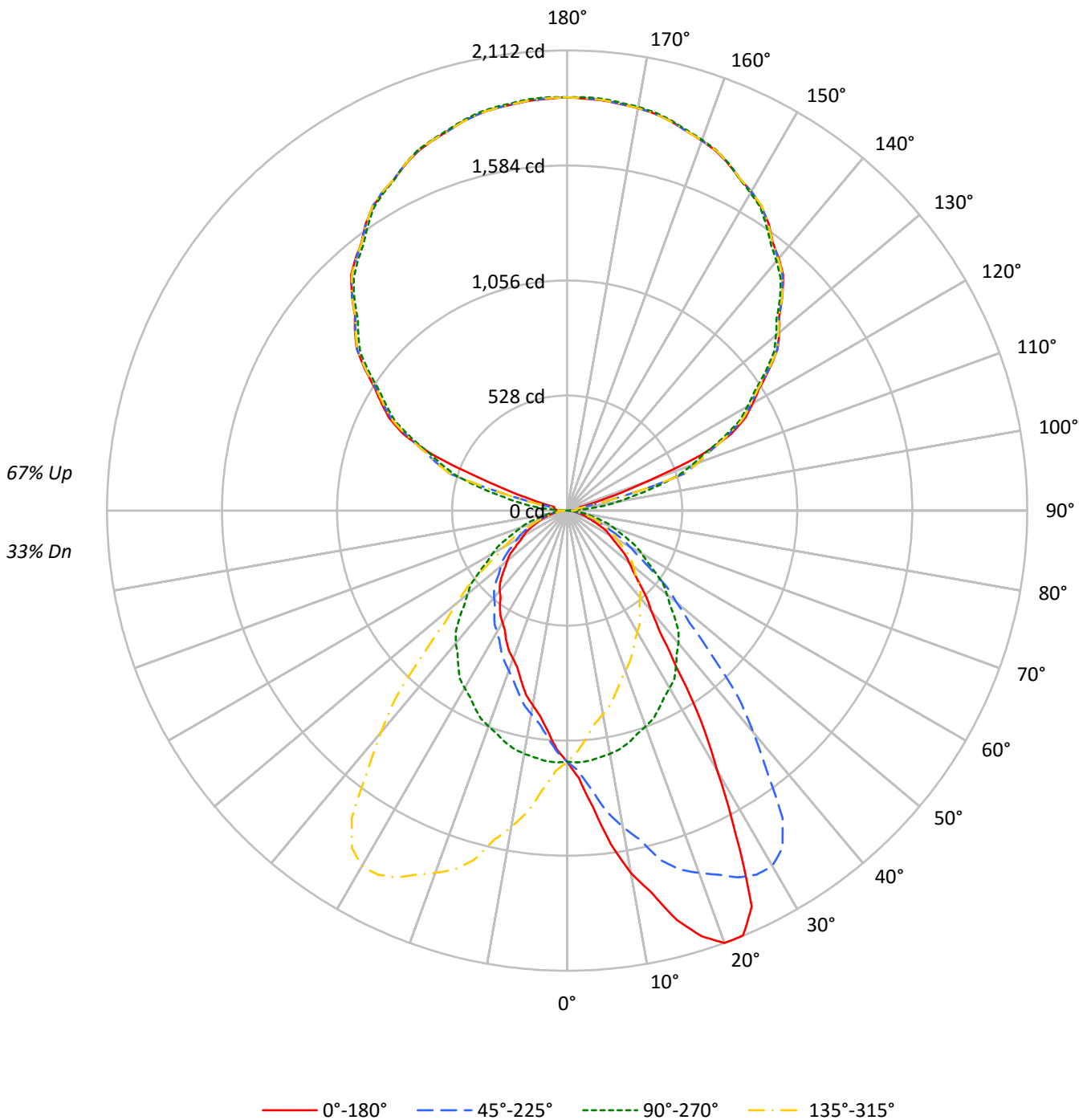
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	12408	12408	12408	12408
5°	14791	12460	10974	12460
10°	18467	12389	9913	12389
15°	21677	12262	9040	12262
20°	24192	12073	8298	12073
25°	23807	11874	7842	11874
30°	17112	11691	7372	11691
35°	11426	11452	7068	11452
40°	8418	11164	6753	11164
45°	7060	10659	6445	10659
50°	6231	9999	6015	9999
55°	5465	9242	5427	9242
60°	4865	8521	4971	8521
65°	4274	7743	4625	7743
70°	3355	7050	4223	7050
75°	2957	6159	3855	6159
80°	2572	5232	3794	5232
85°	2075	4199	4026	4199



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	1.3
10°-20°	354.2	4.1
20°-30°	556.4	6.4
30°-40°	580.5	6.7
40°-50°	496.8	5.7
50°-60°	378.6	4.4
60°-70°	242.7	2.8
70°-80°	116.7	1.3
80°-90°	36.2	0.4
90°-100°	69.0	0.8
100°-110°	328.6	3.8
110°-120°	789.4	9.1
120°-130°	1005.2	11.6
130°-140°	1074.1	12.4
140°-150°	1004.4	11.6
150°-160°	810.1	9.4
160°-170°	522.9	6.0
170°-180°	180.2	2.1
0°-30°	1023.9	11.8
0°-40°	1604.4	18.5
0°-60°	2479.8	28.6
0°-90°	2875.4	33.2
90°-120°	1187.0	13.7
90°-150°	4270.6	49.3
90°-180°	5784.0	66.8
0°-180°	8659.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1369	1153	1016	1153	1369	141
15°	1945	1100	811	1100	1945	552
25°	2004	1000	660	1000	2004	862
35°	870	872	538	872	870	570
45°	464	700	423	700	464	365
55°	291	492	289	492	291	263
65°	168	304	182	304	168	165
75°	71	148	93	148	71	76
85°	17	34	33	34	17	20
90°	42	1	42	1	42	20
95°	54	86	54	86	54	45
105°	62	420	62	420	62	142
115°	829	788	829	788	829	766
125°	1133	1110	1133	1110	1133	1012
135°	1396	1382	1396	1382	1396	1077
145°	1611	1595	1611	1595	1611	1005
155°	1754	1757	1754	1757	1754	809
165°	1849	1853	1849	1853	1849	522
175°	1890	1897	1890	1897	1890	180
180°	1897	1897	1897	1897	1897	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1227.8	1229.4	1224.2	1223.4	1217.5	1215.9	1215.9	1207.6	1202.5	1195.8	1191.8
5°	1368.9	1376.8	1372.8	1364.0	1349.2	1345.7	1336.3	1321.5	1304.8	1284.0	1274.1
7.5°	1545.1	1555.9	1551.8	1538.0	1522.6	1510.0	1483.6	1459.0	1424.6	1394.3	1368.5
10°	1689.6	1678.3	1669.4	1656.0	1641.8	1618.5	1590.9	1552.9	1509.0	1474.5	1436.0
12.5°	1797.8	1795.9	1784.7	1770.9	1750.8	1728.7	1694.8	1648.5	1597.4	1547.6	1503.5
15°	1945.2	1948.2	1940.8	1926.5	1897.9	1858.9	1807.6	1788.3	1715.3	1661.0	1606.8
17.5°	2047.3	2046.7	2045.7	2025.9	1996.7	1969.0	1921.4	1870.8	1804.6	1728.2	1655.0
20°	2112.0	2107.1	2108.1	2085.8	2064.2	2032.1	1985.7	1912.2	1857.9	1769.6	1694.0
22.5°	2110.4	2109.5	2113.3	2105.6	2089.8	2065.3	2028.7	1966.7	1897.4	1808.3	1723.3
25°	2004.5	2000.5	2023.7	2030.1	2055.3	2059.7	2048.9	2014.9	1949.2	1857.4	1752.3
27.5°	1677.6	1675.5	1718.4	1772.4	1840.6	1893.8	1945.0	1969.8	1949.2	1883.5	1778.2
30°	1376.8	1423.1	1444.9	1522.9	1609.7	1713.4	1804.1	1890.5	1911.7	1883.1	1796.7
32.5°	1143.1	1183.6	1201.6	1268.6	1349.5	1470.9	1607.1	1729.4	1815.8	1837.7	1785.6
35°	869.5	870.0	911.4	941.0	1016.1	1140.9	1273.2	1437.0	1599.8	1723.2	1736.0
37.5°	693.8	696.3	721.3	750.8	807.1	873.2	989.6	1125.8	1313.9	1503.3	1614.3
40°	599.1	603.5	622.3	651.4	691.8	741.7	832.5	960.8	1117.7	1328.4	1500.6
42.5°	538.3	545.4	555.2	577.6	602.7	649.3	722.7	821.8	964.5	1163.8	1362.4
45°	463.8	467.8	475.2	485.6	508.3	540.8	590.2	656.8	775.2	935.7	1134.4
47.5°	409.2	407.1	414.9	423.3	438.4	460.6	493.7	548.1	632.5	761.2	929.9
50°	372.1	371.6	377.0	383.4	397.8	414.1	441.2	482.1	549.2	655.8	810.3
52.5°	337.3	339.2	343.1	351.1	361.4	374.6	398.9	428.4	486.1	578.1	706.8
55°	291.2	292.7	298.0	302.5	309.9	323.2	338.6	363.2	402.7	466.8	572.9
57.5°	252.0	251.4	256.6	257.7	266.1	276.9	288.8	307.9	336.6	384.2	455.6
60°	226.0	224.5	228.9	232.4	236.9	245.7	255.6	274.4	297.1	332.1	393.3
62.5°	202.4	201.6	204.9	208.3	212.0	220.1	228.4	242.8	260.7	290.3	338.8
65°	167.8	169.3	170.7	172.2	174.2	179.1	187.0	196.9	209.2	230.0	264.9
67.5°	131.9	133.4	133.8	136.9	141.1	144.2	149.0	157.8	166.4	183.9	203.8
70°	106.6	106.1	106.6	108.1	113.5	118.9	125.4	131.8	137.1	149.5	166.3
72.5°	91.6	90.7	92.0	92.3	94.9	96.4	100.5	106.5	113.5	121.9	133.9
75°	71.1	71.1	71.1	71.1	73.0	74.0	75.5	77.0	79.5	83.4	92.3
77.5°	52.5	52.6	53.3	53.8	54.2	54.8	55.7	57.1	58.1	60.1	64.0
80°	41.5	41.9	41.5	41.9	41.9	42.9	43.5	44.9	45.4	47.9	49.4
82.5°	31.2	30.9	31.2	31.7	31.7	32.7	32.8	33.8	33.9	35.3	36.8
85°	16.8	15.8	16.8	16.3	17.2	16.3	16.8	17.7	17.7	18.3	20.3
87.5°	12.4	13.1	12.2	12.4	12.3	12.5	12.3	12.0	12.5	11.9	11.5
90°	42.2	41.7	41.0	40.4	39.8	38.8	37.6	36.3	35.1	33.8	29.8
92.5°	46.8	46.4	46.0	45.6	45.2	44.1	42.1	40.1	38.1	36.1	33.0
95°	53.5	53.5	53.5	53.5	53.5	52.4	50.2	48.1	45.9	43.6	40.2
97.5°	58.1	57.8	57.4	57.1	56.8	55.4	52.9	50.4	47.9	45.3	68.0
100°	59.2	58.9	58.5	58.2	58.0	56.6	54.0	51.5	49.0	46.5	95.4
102.5°	60.3	59.8	59.2	58.6	58.1	61.6	69.5	77.2	84.9	92.7	146.1
105°	62.0	61.4	60.8	60.1	59.5	86.9	142.3	197.7	253.2	308.6	336.8
107.5°	194.7	236.5	278.2	320.1	361.8	403.0	443.7	484.3	525.0	565.6	561.2
110°	387.5	432.3	477.0	521.8	566.6	594.2	604.5	614.8	625.2	635.5	632.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	664.8	674.3	683.7	693.1	702.7	707.3	707.1	706.9	706.7	706.5	703.0
115°	828.6	827.3	826.0	824.8	823.5	821.3	818.2	815.1	811.9	808.8	806.0
117.5°	920.4	920.2	919.9	919.6	919.5	918.0	915.5	913.0	910.5	908.0	906.5
120°	983.5	983.5	983.5	983.5	983.5	982.3	979.8	977.3	974.8	972.2	971.3
122.5°	1045.6	1045.3	1045.0	1044.8	1044.5	1043.6	1041.8	1040.0	1038.3	1036.5	1035.3
125°	1132.9	1132.3	1131.6	1131.1	1130.4	1129.7	1129.2	1128.5	1127.9	1127.3	1126.1
127.5°	1216.9	1217.5	1218.1	1218.8	1219.4	1219.2	1218.2	1217.2	1216.2	1215.2	1213.7
130°	1271.0	1271.6	1272.2	1272.9	1273.5	1273.2	1272.0	1270.6	1269.4	1268.2	1267.0
132.5°	1320.6	1321.4	1322.4	1323.2	1324.1	1323.9	1322.7	1321.4	1320.1	1318.9	1317.9
135°	1396.4	1397.3	1398.3	1399.2	1400.1	1400.1	1399.2	1398.3	1397.3	1396.4	1395.2
137.5°	1467.7	1468.3	1469.0	1469.6	1470.2	1469.8	1468.3	1466.8	1465.3	1463.8	1463.1
140°	1510.5	1511.2	1511.8	1512.4	1513.1	1512.7	1511.5	1510.2	1509.0	1507.7	1506.7
142.5°	1550.0	1550.9	1551.7	1552.7	1553.5	1553.4	1552.5	1551.4	1550.4	1549.4	1548.5
145°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.2	1609.7	1609.0	1608.4	1607.8	1607.1
147.5°	1655.7	1657.1	1658.6	1660.0	1661.4	1661.9	1661.2	1660.6	1660.0	1659.3	1658.7
150°	1689.5	1690.5	1691.4	1692.3	1693.3	1693.4	1692.8	1692.1	1691.5	1690.9	1690.3
152.5°	1716.6	1718.0	1719.4	1720.9	1722.3	1722.5	1721.4	1720.2	1719.1	1718.0	1717.6
155°	1754.4	1756.1	1758.0	1759.9	1761.8	1762.0	1760.4	1758.9	1757.3	1755.7	1755.4
157.5°	1786.1	1788.6	1791.0	1793.5	1795.9	1796.2	1794.3	1792.4	1790.5	1788.7	1789.0
160°	1806.5	1808.6	1810.8	1813.0	1815.2	1815.3	1813.5	1811.7	1809.8	1807.9	1808.2
162.5°	1825.6	1827.6	1829.5	1831.5	1833.3	1833.2	1831.2	1829.0	1826.9	1824.8	1825.0
165°	1848.7	1850.9	1853.1	1855.3	1857.5	1857.4	1854.8	1852.3	1849.8	1847.3	1847.7
167.5°	1865.4	1867.8	1870.4	1872.8	1875.4	1875.4	1872.8	1870.4	1867.8	1865.4	1865.4
170°	1875.5	1878.0	1880.5	1883.0	1885.6	1885.6	1883.0	1880.5	1878.0	1875.5	1875.5
172.5°	1881.1	1883.9	1886.7	1889.4	1892.2	1892.2	1889.8	1887.3	1884.8	1882.3	1882.0
175°	1889.6	1892.1	1894.6	1897.1	1899.6	1899.8	1897.5	1895.4	1893.2	1891.0	1890.6
177.5°	1892.2	1894.6	1897.1	1899.6	1902.1	1902.4	1900.4	1898.4	1896.4	1894.4	1894.1
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1190.2	1189.0	1183.6	1177.2	1168.9	1163.4	1159.0	1156.7	1149.6	1140.9	1135.0
5°	1263.8	1249.0	1233.2	1213.9	1196.2	1177.9	1166.6	1153.2	1137.0	1118.7	1105.9
7.5°	1342.6	1313.5	1282.2	1250.0	1218.0	1189.5	1164.2	1142.6	1116.6	1090.4	1072.1
10°	1403.0	1360.5	1316.5	1271.7	1230.7	1192.2	1162.6	1133.5	1102.4	1072.3	1049.6
12.5°	1457.8	1401.9	1351.3	1296.2	1243.8	1197.8	1155.1	1120.9	1083.5	1051.4	1025.5
15°	1527.3	1470.1	1408.8	1324.9	1255.4	1197.1	1145.4	1100.4	1055.1	1015.6	990.4
17.5°	1592.2	1506.1	1423.9	1353.9	1263.5	1190.7	1127.5	1073.7	1024.0	982.1	951.1
20°	1619.1	1535.7	1446.3	1357.1	1268.2	1186.8	1113.2	1054.0	1002.2	954.9	926.2
22.5°	1635.2	1540.8	1446.7	1350.8	1256.4	1171.8	1099.1	1033.9	977.8	932.7	897.4
25°	1654.1	1541.6	1437.9	1343.2	1247.0	1155.2	1068.8	999.8	939.1	891.2	853.7
27.5°	1666.5	1534.2	1411.7	1306.4	1208.8	1117.4	1038.2	965.1	903.4	852.8	812.6
30°	1668.9	1528.2	1391.6	1277.6	1178.4	1094.5	1010.6	940.6	875.4	821.6	784.1
32.5°	1672.1	1513.6	1364.3	1243.2	1141.7	1058.6	982.6	915.7	848.9	796.0	757.7
35°	1659.1	1505.6	1323.0	1183.8	1082.1	1001.7	933.1	871.5	805.9	754.5	715.5
37.5°	1603.0	1473.5	1280.2	1116.9	1010.6	936.1	880.2	826.4	766.3	710.9	674.2
40°	1546.5	1441.9	1247.0	1076.3	965.3	888.7	838.4	794.5	736.2	684.5	645.0
42.5°	1462.4	1398.9	1215.4	1033.6	913.9	840.2	797.8	756.6	705.5	652.9	615.8
45°	1308.2	1316.5	1150.8	965.7	842.8	768.8	728.9	700.2	654.9	611.4	573.4
47.5°	1114.7	1193.2	1074.9	893.3	767.9	698.4	663.5	638.6	607.9	565.3	530.7
50°	988.4	1100.4	1014.1	844.8	721.0	651.9	617.4	597.1	570.4	536.9	503.8
52.5°	871.9	992.3	940.7	790.7	670.1	606.9	573.2	556.5	535.3	503.7	473.8
55°	711.1	833.0	821.1	709.1	593.6	536.9	511.2	492.5	478.2	454.5	430.8
57.5°	575.2	690.8	696.9	618.3	526.3	470.2	448.2	434.0	424.7	406.8	384.9
60°	489.6	595.6	616.3	557.1	478.2	428.9	407.1	395.8	388.3	374.1	357.3
62.5°	418.5	508.8	532.3	489.7	432.0	385.8	368.8	357.9	352.8	340.4	325.6
65°	320.3	395.3	417.9	394.3	364.2	327.2	313.4	304.0	299.5	292.7	281.7
67.5°	240.8	295.5	320.4	303.7	292.8	269.5	260.6	255.6	251.7	246.9	237.9
70°	193.4	233.9	259.6	255.1	246.3	233.9	227.5	224.0	220.1	216.1	208.2
72.5°	155.5	183.4	207.5	209.7	202.5	199.9	194.4	192.8	190.5	185.8	181.4
75°	103.1	122.3	139.1	145.5	148.5	151.0	148.5	148.1	147.5	143.6	141.1
77.5°	67.6	77.9	88.5	99.4	104.2	107.4	108.3	110.1	108.8	106.7	105.5
80°	51.8	54.3	61.6	71.1	78.4	81.4	83.4	84.4	83.9	83.4	81.4
82.5°	37.6	39.7	43.2	49.8	56.0	60.9	62.1	61.9	63.0	63.2	61.6
85°	20.3	20.7	21.7	22.7	26.1	31.6	33.1	34.0	35.1	35.1	32.0
87.5°	11.4	10.3	10.2	9.5	10.1	9.8	11.6	12.9	13.9	13.0	13.6
90°	25.6	21.6	17.5	13.9	10.8	7.6	4.5	1.4	4.5	7.6	10.8
92.5°	30.0	26.9	23.8	22.7	23.6	24.4	25.4	26.2	25.4	24.4	23.6
95°	36.8	33.4	29.9	34.6	47.4	60.3	73.1	86.0	73.1	60.3	47.4
97.5°	90.5	113.0	135.5	149.7	155.4	161.3	167.0	172.8	167.0	161.3	155.4
100°	144.2	193.0	241.9	263.2	256.9	250.6	244.4	238.2	244.4	250.6	256.9
102.5°	199.4	252.8	306.1	330.5	326.0	321.6	317.1	312.5	317.1	321.6	326.0
105°	365.0	393.1	421.3	433.7	430.3	426.8	423.4	419.9	423.4	426.8	430.3
107.5°	556.8	552.2	547.8	544.2	541.5	538.7	535.9	533.2	535.9	538.7	541.5
110°	628.6	625.2	621.7	618.8	616.2	613.7	611.2	608.7	611.2	613.7	616.2





TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	699.6	696.2	692.8	689.8	687.7	685.4	683.2	680.9	683.2	685.4	687.7
115°	803.1	800.4	797.6	795.2	793.3	791.5	789.6	787.7	789.6	791.5	793.3
117.5°	905.1	903.7	902.3	900.4	898.1	895.7	893.4	891.1	893.4	895.7	898.1
120°	970.3	969.4	968.6	966.7	963.8	961.0	958.2	955.4	958.2	961.0	963.8
122.5°	1034.2	1032.9	1031.8	1030.0	1027.7	1025.4	1023.0	1020.8	1023.0	1025.4	1027.7
125°	1124.7	1123.5	1122.3	1120.4	1117.9	1115.4	1112.9	1110.3	1112.9	1115.4	1117.9
127.5°	1212.2	1210.7	1209.2	1207.2	1204.7	1202.2	1199.7	1197.1	1199.7	1202.2	1204.7
130°	1265.6	1264.4	1263.2	1261.3	1258.8	1256.3	1253.8	1251.2	1253.8	1256.3	1258.8
132.5°	1316.9	1315.9	1314.9	1313.2	1310.6	1308.2	1305.6	1303.2	1305.6	1308.2	1310.6
135°	1393.9	1392.6	1391.4	1389.9	1388.0	1386.1	1384.2	1382.3	1384.2	1386.1	1388.0
137.5°	1462.4	1461.7	1461.0	1459.4	1457.1	1454.7	1452.4	1449.9	1452.4	1454.7	1457.1
140°	1505.8	1504.9	1503.9	1502.6	1500.7	1498.8	1496.9	1495.1	1496.9	1498.8	1500.7
142.5°	1547.6	1546.6	1545.7	1544.3	1542.4	1540.5	1538.6	1536.7	1538.6	1540.5	1542.4
145°	1606.5	1605.9	1605.2	1603.8	1601.7	1599.5	1597.2	1595.1	1597.2	1599.5	1601.7
147.5°	1658.1	1657.5	1656.8	1655.8	1654.4	1652.9	1651.5	1650.0	1651.5	1652.9	1654.4
150°	1689.7	1689.0	1688.4	1687.6	1686.7	1685.7	1684.8	1683.9	1684.8	1685.7	1686.7
152.5°	1717.2	1716.8	1716.5	1716.1	1715.6	1715.1	1714.8	1714.3	1714.8	1715.1	1715.6
155°	1755.1	1754.8	1754.4	1754.6	1755.3	1755.9	1756.5	1757.1	1756.5	1755.9	1755.3
157.5°	1789.3	1789.6	1790.0	1790.2	1790.2	1790.3	1790.4	1790.4	1790.4	1790.3	1790.2
160°	1808.5	1808.8	1809.1	1809.4	1809.8	1810.1	1810.3	1810.7	1810.3	1810.1	1809.8
162.5°	1825.4	1825.7	1826.0	1826.6	1827.4	1828.2	1829.0	1829.9	1829.0	1828.2	1827.4
165°	1847.9	1848.2	1848.6	1849.2	1850.1	1851.1	1852.0	1852.9	1852.0	1851.1	1850.1
167.5°	1865.4	1865.4	1865.4	1866.0	1867.3	1868.5	1869.7	1870.9	1869.7	1868.5	1867.3
170°	1875.5	1875.5	1875.5	1876.1	1877.4	1878.6	1879.9	1881.1	1879.9	1878.6	1877.4
172.5°	1881.8	1881.5	1881.2	1881.9	1883.4	1884.9	1886.4	1887.9	1886.4	1884.9	1883.4
175°	1890.4	1890.1	1889.7	1890.4	1892.0	1893.5	1895.1	1896.6	1895.1	1893.5	1892.0
177.5°	1893.9	1893.7	1893.4	1893.9	1895.2	1896.4	1897.6	1898.8	1897.6	1896.4	1895.2
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1133.0	1127.8	1124.4	1116.4	1111.3	1105.8	1100.2	1103.8	1103.4	1103.0	1103.0
5°	1095.0	1083.6	1073.3	1060.0	1051.6	1041.2	1033.3	1032.4	1034.3	1027.4	1023.4
7.5°	1057.3	1041.8	1027.1	1012.4	996.8	984.4	976.6	972.9	967.9	963.7	959.2
10°	1030.9	1012.6	998.2	980.1	963.3	948.5	939.1	932.6	929.2	925.8	919.4
12.5°	1003.6	985.7	967.5	946.9	930.9	913.7	906.7	899.5	892.9	889.0	880.2
15°	963.7	940.6	921.3	899.6	881.8	865.1	855.2	840.8	838.9	834.0	825.1
17.5°	923.8	898.6	872.0	856.0	835.9	818.5	803.4	798.6	784.5	779.2	771.5
20°	892.2	869.0	848.8	827.6	798.4	782.1	770.3	763.9	752.5	745.6	740.6
22.5°	865.0	841.4	817.9	793.2	769.2	750.9	742.3	732.3	726.1	716.4	711.1
25°	826.0	800.4	772.3	745.6	728.4	714.5	700.7	691.8	683.0	678.5	668.6
27.5°	780.9	754.0	727.7	707.6	686.4	672.7	660.2	652.2	641.6	634.1	628.7
30°	756.0	724.4	701.7	683.4	656.3	643.5	634.1	624.2	616.3	608.4	603.0
32.5°	727.2	698.3	676.8	654.2	633.4	619.4	607.3	598.6	591.8	584.4	578.9
35°	681.9	657.8	635.6	612.8	597.6	583.2	569.0	561.6	555.2	548.3	543.3
37.5°	641.1	618.5	597.4	575.9	556.9	545.3	533.8	528.1	519.4	514.8	509.7
40°	615.9	593.6	570.9	550.3	530.5	521.6	511.2	502.8	494.9	491.5	486.1
42.5°	588.2	566.0	546.9	524.5	508.4	496.3	486.7	477.6	471.6	466.7	463.5
45°	547.2	527.5	508.8	486.5	471.3	460.9	450.1	441.7	436.2	432.8	427.3
47.5°	507.5	487.8	468.7	449.3	434.5	422.7	411.9	406.0	398.8	394.5	391.0
50°	478.6	460.9	440.6	422.9	408.1	396.2	387.4	379.9	373.5	368.2	365.7
52.5°	452.2	433.3	415.8	399.3	383.6	370.2	362.1	354.3	349.5	343.3	340.4
55°	408.6	390.3	375.5	359.2	343.9	332.6	322.7	315.8	310.9	304.0	300.0
57.5°	367.6	351.3	333.6	319.4	303.7	294.1	285.9	276.5	270.5	265.1	261.3
60°	340.0	321.2	305.9	292.7	278.8	266.5	259.1	251.7	245.2	239.8	236.4
62.5°	311.2	294.8	280.3	265.8	253.2	242.4	233.8	227.6	222.0	218.5	215.1
65°	266.9	254.1	239.3	227.5	215.7	207.7	200.9	195.4	191.4	189.0	186.1
67.5°	226.3	213.9	201.0	189.3	181.4	175.4	170.9	166.2	164.2	161.1	159.1
70°	199.8	187.0	175.7	166.8	158.9	154.5	151.5	148.1	146.1	142.1	140.2
72.5°	171.1	161.7	153.5	146.3	140.0	135.9	132.1	127.9	124.8	120.4	118.5
75°	134.7	126.3	119.9	115.0	111.0	105.6	100.2	95.8	94.3	92.7	92.3
77.5°	99.8	94.4	89.8	85.7	80.8	76.8	75.6	74.6	74.3	73.5	73.5
80°	78.4	73.5	70.0	65.1	62.2	62.2	62.2	61.2	61.6	61.6	61.6
82.5°	58.3	53.8	51.9	50.1	49.6	50.0	50.0	50.1	49.9	50.6	50.2
85°	30.1	30.6	31.6	31.1	31.6	31.6	32.6	32.0	32.6	31.6	32.6
87.5°	13.9	15.7	17.0	18.2	19.4	19.8	20.5	20.6	21.3	21.6	21.8
90°	13.9	17.5	21.6	25.6	29.8	33.8	35.1	36.3	37.6	38.8	39.8
92.5°	22.7	23.8	26.9	30.0	33.0	36.1	38.1	40.1	42.1	44.1	45.2
95°	34.6	29.9	33.4	36.8	40.2	43.6	45.9	48.1	50.2	52.4	53.5
97.5°	149.7	135.5	113.0	90.5	68.0	45.3	47.9	50.4	52.9	55.4	56.8
100°	263.2	241.9	193.0	144.2	95.4	46.5	49.0	51.5	54.0	56.6	58.0
102.5°	330.5	306.1	252.8	199.4	146.1	92.7	84.9	77.2	69.5	61.6	58.1
105°	433.7	421.3	393.1	365.0	336.8	308.6	253.2	197.7	142.3	86.9	59.5
107.5°	544.2	547.8	552.2	556.8	561.2	565.6	525.0	484.3	443.7	403.0	361.8
110°	618.8	621.7	625.2	628.6	632.1	635.5	625.2	614.8	604.5	594.2	566.6



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	689.8	692.8	696.2	699.6	703.0	706.5	706.7	706.9	707.1	707.3	702.7
115°	795.2	797.6	800.4	803.1	806.0	808.8	811.9	815.1	818.2	821.3	823.5
117.5°	900.4	902.3	903.7	905.1	906.5	908.0	910.5	913.0	915.5	918.0	919.5
120°	966.7	968.6	969.4	970.3	971.3	972.2	974.8	977.3	979.8	982.3	983.5
122.5°	1030.0	1031.8	1032.9	1034.2	1035.3	1036.5	1038.3	1040.0	1041.8	1043.6	1044.5
125°	1120.4	1122.3	1123.5	1124.7	1126.1	1127.3	1127.9	1128.5	1129.2	1129.7	1130.4
127.5°	1207.2	1209.2	1210.7	1212.2	1213.7	1215.2	1216.2	1217.2	1218.2	1219.2	1219.4
130°	1261.3	1263.2	1264.4	1265.6	1267.0	1268.2	1269.4	1270.6	1272.0	1273.2	1273.5
132.5°	1313.2	1314.9	1315.9	1316.9	1317.9	1318.9	1320.1	1321.4	1322.7	1323.9	1324.1
135°	1389.9	1391.4	1392.6	1393.9	1395.2	1396.4	1397.3	1398.3	1399.2	1400.1	1400.1
137.5°	1459.4	1461.0	1461.7	1462.4	1463.1	1463.8	1465.3	1466.8	1468.3	1469.8	1470.2
140°	1502.6	1503.9	1504.9	1505.8	1506.7	1507.7	1509.0	1510.2	1511.5	1512.7	1513.1
142.5°	1544.3	1545.7	1546.6	1547.6	1548.5	1549.4	1550.4	1551.4	1552.5	1553.4	1553.5
145°	1603.8	1605.2	1605.9	1606.5	1607.1	1607.8	1608.4	1609.0	1609.7	1610.2	1610.6
147.5°	1655.8	1656.8	1657.5	1658.1	1658.7	1659.3	1660.0	1660.6	1661.2	1661.9	1661.4
150°	1687.6	1688.4	1689.0	1689.7	1690.3	1690.9	1691.5	1692.1	1692.8	1693.4	1693.3
152.5°	1716.1	1716.5	1716.8	1717.2	1717.6	1718.0	1719.1	1720.2	1721.4	1722.5	1722.3
155°	1754.6	1754.4	1754.8	1755.1	1755.4	1755.7	1757.3	1758.9	1760.4	1762.0	1761.8
157.5°	1790.2	1790.0	1789.6	1789.3	1789.0	1788.7	1790.5	1792.4	1794.3	1796.2	1795.9
160°	1809.4	1809.1	1808.8	1808.5	1808.2	1807.9	1809.8	1811.7	1813.5	1815.3	1815.2
162.5°	1826.6	1826.0	1825.7	1825.4	1825.0	1824.8	1826.9	1829.0	1831.2	1833.2	1833.3
165°	1849.2	1848.6	1848.2	1847.9	1847.7	1847.3	1849.8	1852.3	1854.8	1857.4	1857.5
167.5°	1866.0	1865.4	1865.4	1865.4	1865.4	1865.4	1867.8	1870.4	1872.8	1875.4	1875.4
170°	1876.1	1875.5	1875.5	1875.5	1875.5	1875.5	1878.0	1880.5	1883.0	1885.6	1885.6
172.5°	1881.9	1881.2	1881.5	1881.8	1882.0	1882.3	1884.8	1887.3	1889.8	1892.2	1892.2
175°	1890.4	1889.7	1890.1	1890.4	1890.6	1891.0	1893.2	1895.4	1897.5	1899.8	1899.6
177.5°	1893.9	1893.4	1893.7	1893.9	1894.1	1894.4	1896.4	1898.4	1900.4	1902.4	1902.1
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1098.3	1097.9	1098.3	1096.6	1098.3	1097.9	1098.3	1103.0	1103.0	1103.4	1103.8
5°	1022.0	1021.4	1020.0	1015.6	1020.0	1021.4	1022.0	1023.4	1027.4	1034.3	1032.4
7.5°	955.4	954.7	950.4	950.5	950.4	954.7	955.4	959.2	963.7	967.9	972.9
10°	915.9	916.3	910.5	907.0	910.5	916.3	915.9	919.4	925.8	929.2	932.6
12.5°	877.6	875.3	870.5	866.8	870.5	875.3	877.6	880.2	889.0	892.9	899.5
15°	827.1	822.1	810.3	811.2	810.3	822.1	827.1	825.1	834.0	838.9	840.8
17.5°	767.5	763.9	763.6	756.8	763.6	763.9	767.5	771.5	779.2	784.5	798.6
20°	732.8	730.4	731.3	724.4	731.3	730.4	732.8	740.6	745.6	752.5	763.9
22.5°	705.6	703.1	699.0	696.8	699.0	703.1	705.6	711.1	716.4	726.1	732.3
25°	665.7	661.8	657.8	660.3	657.8	661.8	665.7	668.6	678.5	683.0	691.8
27.5°	625.8	622.8	618.9	618.4	618.9	622.8	625.8	628.7	634.1	641.6	652.2
30°	600.6	597.6	595.6	593.1	595.6	597.6	600.6	603.0	608.4	616.3	624.2
32.5°	574.9	574.3	570.7	570.2	570.7	574.3	574.9	578.9	584.4	591.8	598.6
35°	541.3	538.4	537.3	537.9	537.3	538.4	541.3	543.3	548.3	555.2	561.6
37.5°	509.4	505.5	503.7	502.0	503.7	505.5	509.4	509.7	514.8	519.4	528.1
40°	486.5	482.6	481.6	480.6	481.6	482.6	486.5	486.1	491.5	494.9	502.8
42.5°	460.9	459.3	458.7	456.9	458.7	459.3	460.9	463.5	466.7	471.6	477.6
45°	425.8	425.4	422.4	423.4	422.4	425.4	425.8	427.3	432.8	436.2	441.7
47.5°	389.0	386.8	384.7	386.1	384.7	386.8	389.0	391.0	394.5	398.8	406.0
50°	363.7	362.7	358.3	359.2	358.3	362.7	363.7	365.7	368.2	373.5	379.9
52.5°	338.5	334.7	333.0	332.4	333.0	334.7	338.5	340.4	343.3	349.5	354.3
55°	296.6	292.1	290.1	289.2	290.1	292.1	296.6	300.0	304.0	310.9	315.8
57.5°	255.5	254.3	252.8	253.8	252.8	254.3	255.5	261.3	265.1	270.5	276.5
60°	231.4	231.4	231.4	230.9	231.4	231.4	231.4	236.4	239.8	245.2	251.7
62.5°	212.9	211.7	211.3	212.0	211.3	211.7	212.9	215.1	218.5	222.0	227.6
65°	184.5	184.1	182.1	181.6	182.1	184.1	184.5	186.1	189.0	191.4	195.4
67.5°	157.8	156.0	155.4	154.8	155.4	156.0	157.8	159.1	161.1	164.2	166.2
70°	137.7	136.7	133.7	134.2	133.7	136.7	137.7	140.2	142.1	146.1	148.1
72.5°	115.9	115.0	114.4	113.7	114.4	115.0	115.9	118.5	120.4	124.8	127.9
75°	91.8	91.3	90.8	92.7	90.8	91.3	91.8	92.3	92.7	94.3	95.8
77.5°	73.5	73.5	73.8	73.0	73.8	73.5	73.5	73.5	73.5	74.3	74.6
80°	61.6	61.6	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.2
82.5°	49.5	49.9	50.1	49.4	50.1	49.9	49.5	50.2	50.6	49.9	50.1
85°	32.6	32.0	33.1	32.6	33.1	32.0	32.6	32.6	31.6	32.6	32.0
87.5°	22.7	22.1	22.1	22.6	22.1	22.1	22.7	21.8	21.6	21.3	20.6
90°	40.4	41.0	41.7	42.2	41.7	41.0	40.4	39.8	38.8	37.6	36.3
92.5°	45.6	46.0	46.4	46.8	46.4	46.0	45.6	45.2	44.1	42.1	40.1
95°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	52.4	50.2	48.1
97.5°	57.1	57.4	57.8	58.1	57.8	57.4	57.1	56.8	55.4	52.9	50.4
100°	58.2	58.5	58.9	59.2	58.9	58.5	58.2	58.0	56.6	54.0	51.5
102.5°	58.6	59.2	59.8	60.3	59.8	59.2	58.6	58.1	61.6	69.5	77.2
105°	60.1	60.8	61.4	62.0	61.4	60.8	60.1	59.5	86.9	142.3	197.7
107.5°	320.1	278.2	236.5	194.7	236.5	278.2	320.1	361.8	403.0	443.7	484.3
110°	521.8	477.0	432.3	387.5	432.3	477.0	521.8	566.6	594.2	604.5	614.8



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	693.1	683.7	674.3	664.8	674.3	683.7	693.1	702.7	707.3	707.1	706.9
115°	824.8	826.0	827.3	828.6	827.3	826.0	824.8	823.5	821.3	818.2	815.1
117.5°	919.6	919.9	920.2	920.4	920.2	919.9	919.6	919.5	918.0	915.5	913.0
120°	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	982.3	979.8	977.3
122.5°	1044.8	1045.0	1045.3	1045.6	1045.3	1045.0	1044.8	1044.5	1043.6	1041.8	1040.0
125°	1131.1	1131.6	1132.3	1132.9	1132.3	1131.6	1131.1	1130.4	1129.7	1129.2	1128.5
127.5°	1218.8	1218.1	1217.5	1216.9	1217.5	1218.1	1218.8	1219.4	1219.2	1218.2	1217.2
130°	1272.9	1272.2	1271.6	1271.0	1271.6	1272.2	1272.9	1273.5	1273.2	1272.0	1270.6
132.5°	1323.2	1322.4	1321.4	1320.6	1321.4	1322.4	1323.2	1324.1	1323.9	1322.7	1321.4
135°	1399.2	1398.3	1397.3	1396.4	1397.3	1398.3	1399.2	1400.1	1400.1	1399.2	1398.3
137.5°	1469.6	1469.0	1468.3	1467.7	1468.3	1469.0	1469.6	1470.2	1469.8	1468.3	1466.8
140°	1512.4	1511.8	1511.2	1510.5	1511.2	1511.8	1512.4	1513.1	1512.7	1511.5	1510.2
142.5°	1552.7	1551.7	1550.9	1550.0	1550.9	1551.7	1552.7	1553.5	1553.4	1552.5	1551.4
145°	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.6	1610.2	1609.7	1609.0
147.5°	1660.0	1658.6	1657.1	1655.7	1657.1	1658.6	1660.0	1661.4	1661.9	1661.2	1660.6
150°	1692.3	1691.4	1690.5	1689.5	1690.5	1691.4	1692.3	1693.3	1693.4	1692.8	1692.1
152.5°	1720.9	1719.4	1718.0	1716.6	1718.0	1719.4	1720.9	1722.3	1722.5	1721.4	1720.2
155°	1759.9	1758.0	1756.1	1754.4	1756.1	1758.0	1759.9	1761.8	1762.0	1760.4	1758.9
157.5°	1793.5	1791.0	1788.6	1786.1	1788.6	1791.0	1793.5	1795.9	1796.2	1794.3	1792.4
160°	1813.0	1810.8	1808.6	1806.5	1808.6	1810.8	1813.0	1815.2	1815.3	1813.5	1811.7
162.5°	1831.5	1829.5	1827.6	1825.6	1827.6	1829.5	1831.5	1833.3	1833.2	1831.2	1829.0
165°	1855.3	1853.1	1850.9	1848.7	1850.9	1853.1	1855.3	1857.5	1857.4	1854.8	1852.3
167.5°	1872.8	1870.4	1867.8	1865.4	1867.8	1870.4	1872.8	1875.4	1875.4	1872.8	1870.4
170°	1883.0	1880.5	1878.0	1875.5	1878.0	1880.5	1883.0	1885.6	1885.6	1883.0	1880.5
172.5°	1889.4	1886.7	1883.9	1881.1	1883.9	1886.7	1889.4	1892.2	1892.2	1889.8	1887.3
175°	1897.1	1894.6	1892.1	1889.6	1892.1	1894.6	1897.1	1899.6	1899.8	1897.5	1895.4
177.5°	1899.6	1897.1	1894.6	1892.2	1894.6	1897.1	1899.6	1902.1	1902.4	1900.4	1898.4
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1100.2	1105.8	1111.3	1116.4	1124.4	1127.8	1133.0	1135.0	1140.9	1149.6	1156.7
5°	1033.3	1041.2	1051.6	1060.0	1073.3	1083.6	1095.0	1105.9	1118.7	1137.0	1153.2
7.5°	976.6	984.4	996.8	1012.4	1027.1	1041.8	1057.3	1072.1	1090.4	1116.6	1142.6
10°	939.1	948.5	963.3	980.1	998.2	1012.6	1030.9	1049.6	1072.3	1102.4	1133.5
12.5°	906.7	913.7	930.9	946.9	967.5	985.7	1003.6	1025.5	1051.4	1083.5	1120.9
15°	855.2	865.1	881.8	899.6	921.3	940.6	963.7	990.4	1015.6	1055.1	1100.4
17.5°	803.4	818.5	835.9	856.0	872.0	898.6	923.8	951.1	982.1	1024.0	1073.7
20°	770.3	782.1	798.4	827.6	848.8	869.0	892.2	926.2	954.9	1002.2	1054.0
22.5°	742.3	750.9	769.2	793.2	817.9	841.4	865.0	897.4	932.7	977.8	1033.9
25°	700.7	714.5	728.4	745.6	772.3	800.4	826.0	853.7	891.2	939.1	999.8
27.5°	660.2	672.7	686.4	707.6	727.7	754.0	780.9	812.6	852.8	903.4	965.1
30°	634.1	643.5	656.3	683.4	701.7	724.4	756.0	784.1	821.6	875.4	940.6
32.5°	607.3	619.4	633.4	654.2	676.8	698.3	727.2	757.7	796.0	848.9	915.7
35°	569.0	583.2	597.6	612.8	635.6	657.8	681.9	715.5	754.5	805.9	871.5
37.5°	533.8	545.3	556.9	575.9	597.4	618.5	641.1	674.2	710.9	766.3	826.4
40°	511.2	521.6	530.5	550.3	570.9	593.6	615.9	645.0	684.5	736.2	794.5
42.5°	486.7	496.3	508.4	524.5	546.9	566.0	588.2	615.8	652.9	705.5	756.6
45°	450.1	460.9	471.3	486.5	508.8	527.5	547.2	573.4	611.4	654.9	700.2
47.5°	411.9	422.7	434.5	449.3	468.7	487.8	507.5	530.7	565.3	607.9	638.6
50°	387.4	396.2	408.1	422.9	440.6	460.9	478.6	503.8	536.9	570.4	597.1
52.5°	362.1	370.2	383.6	399.3	415.8	433.3	452.2	473.8	503.7	535.3	556.5
55°	322.7	332.6	343.9	359.2	375.5	390.3	408.6	430.8	454.5	478.2	492.5
57.5°	285.9	294.1	303.7	319.4	333.6	351.3	367.6	384.9	406.8	424.7	434.0
60°	259.1	266.5	278.8	292.7	305.9	321.2	340.0	357.3	374.1	388.3	395.8
62.5°	233.8	242.4	253.2	265.8	280.3	294.8	311.2	325.6	340.4	352.8	357.9
65°	200.9	207.7	215.7	227.5	239.3	254.1	266.9	281.7	292.7	299.5	304.0
67.5°	170.9	175.4	181.4	189.3	201.0	213.9	226.3	237.9	246.9	251.7	255.6
70°	151.5	154.5	158.9	166.8	175.7	187.0	199.8	208.2	216.1	220.1	224.0
72.5°	132.1	135.9	140.0	146.3	153.5	161.7	171.1	181.4	185.8	190.5	192.8
75°	100.2	105.6	111.0	115.0	119.9	126.3	134.7	141.1	143.6	147.5	148.1
77.5°	75.6	76.8	80.8	85.7	89.8	94.4	99.8	105.5	106.7	108.8	110.1
80°	62.2	62.2	62.2	65.1	70.0	73.5	78.4	81.4	83.4	83.9	84.4
82.5°	50.0	50.0	49.6	50.1	51.9	53.8	58.3	61.6	63.2	63.0	61.9
85°	32.6	31.6	31.6	31.1	31.6	30.6	30.1	32.0	35.1	35.1	34.0
87.5°	20.5	19.8	19.4	18.2	17.0	15.7	13.9	13.6	13.0	13.9	12.9
90°	35.1	33.8	29.8	25.6	21.6	17.5	13.9	10.8	7.6	4.5	1.4
92.5°	38.1	36.1	33.0	30.0	26.9	23.8	22.7	23.6	24.4	25.4	26.2
95°	45.9	43.6	40.2	36.8	33.4	29.9	34.6	47.4	60.3	73.1	86.0
97.5°	47.9	45.3	68.0	90.5	113.0	135.5	149.7	155.4	161.3	167.0	172.8
100°	49.0	46.5	95.4	144.2	193.0	241.9	263.2	256.9	250.6	244.4	238.2
102.5°	84.9	92.7	146.1	199.4	252.8	306.1	330.5	326.0	321.6	317.1	312.5
105°	253.2	308.6	336.8	365.0	393.1	421.3	433.7	430.3	426.8	423.4	419.9
107.5°	525.0	565.6	561.2	556.8	552.2	547.8	544.2	541.5	538.7	535.9	533.2
110°	625.2	635.5	632.1	628.6	625.2	621.7	618.8	616.2	613.7	611.2	608.7



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	706.7	706.5	703.0	699.6	696.2	692.8	689.8	687.7	685.4	683.2	680.9
115°	811.9	808.8	806.0	803.1	800.4	797.6	795.2	793.3	791.5	789.6	787.7
117.5°	910.5	908.0	906.5	905.1	903.7	902.3	900.4	898.1	895.7	893.4	891.1
120°	974.8	972.2	971.3	970.3	969.4	968.6	966.7	963.8	961.0	958.2	955.4
122.5°	1038.3	1036.5	1035.3	1034.2	1032.9	1031.8	1030.0	1027.7	1025.4	1023.0	1020.8
125°	1127.9	1127.3	1126.1	1124.7	1123.5	1122.3	1120.4	1117.9	1115.4	1112.9	1110.3
127.5°	1216.2	1215.2	1213.7	1212.2	1210.7	1209.2	1207.2	1204.7	1202.2	1199.7	1197.1
130°	1269.4	1268.2	1267.0	1265.6	1264.4	1263.2	1261.3	1258.8	1256.3	1253.8	1251.2
132.5°	1320.1	1318.9	1317.9	1316.9	1315.9	1314.9	1313.2	1310.6	1308.2	1305.6	1303.2
135°	1397.3	1396.4	1395.2	1393.9	1392.6	1391.4	1389.9	1388.0	1386.1	1384.2	1382.3
137.5°	1465.3	1463.8	1463.1	1462.4	1461.7	1461.0	1459.4	1457.1	1454.7	1452.4	1449.9
140°	1509.0	1507.7	1506.7	1505.8	1504.9	1503.9	1502.6	1500.7	1498.8	1496.9	1495.1
142.5°	1550.4	1549.4	1548.5	1547.6	1546.6	1545.7	1544.3	1542.4	1540.5	1538.6	1536.7
145°	1608.4	1607.8	1607.1	1606.5	1605.9	1605.2	1603.8	1601.7	1599.5	1597.2	1595.1
147.5°	1660.0	1659.3	1658.7	1658.1	1657.5	1656.8	1655.8	1654.4	1652.9	1651.5	1650.0
150°	1691.5	1690.9	1690.3	1689.7	1689.0	1688.4	1687.6	1686.7	1685.7	1684.8	1683.9
152.5°	1719.1	1718.0	1717.6	1717.2	1716.8	1716.5	1716.1	1715.6	1715.1	1714.8	1714.3
155°	1757.3	1755.7	1755.4	1755.1	1754.8	1754.4	1754.6	1755.3	1755.9	1756.5	1757.1
157.5°	1790.5	1788.7	1789.0	1789.3	1789.6	1790.0	1790.2	1790.2	1790.3	1790.4	1790.4
160°	1809.8	1807.9	1808.2	1808.5	1808.8	1809.1	1809.4	1809.8	1810.1	1810.3	1810.7
162.5°	1826.9	1824.8	1825.0	1825.4	1825.7	1826.0	1826.6	1827.4	1828.2	1829.0	1829.9
165°	1849.8	1847.3	1847.7	1847.9	1848.2	1848.6	1849.2	1850.1	1851.1	1852.0	1852.9
167.5°	1867.8	1865.4	1865.4	1865.4	1865.4	1865.4	1866.0	1867.3	1868.5	1869.7	1870.9
170°	1878.0	1875.5	1875.5	1875.5	1875.5	1875.5	1876.1	1877.4	1878.6	1879.9	1881.1
172.5°	1884.8	1882.3	1882.0	1881.8	1881.5	1881.2	1881.9	1883.4	1884.9	1886.4	1887.9
175°	1893.2	1891.0	1890.6	1890.4	1890.1	1889.7	1890.4	1892.0	1893.5	1895.1	1896.6
177.5°	1896.4	1894.4	1894.1	1893.9	1893.7	1893.4	1893.9	1895.2	1896.4	1897.6	1898.8
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



TEST NUMBER: P332446-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1159.0	1163.4	1168.9	1177.2	1183.6	1189.0	1190.2	1191.8	1195.8	1202.5	1207.6
5°	1166.6	1177.9	1196.2	1213.9	1233.2	1249.0	1263.8	1274.1	1284.0	1304.8	1321.5
7.5°	1164.2	1189.5	1218.0	1250.0	1282.2	1313.5	1342.6	1368.5	1394.3	1424.6	1459.0
10°	1162.6	1192.2	1230.7	1271.7	1316.5	1360.5	1403.0	1436.0	1474.5	1509.0	1552.9
12.5°	1155.1	1197.8	1243.8	1296.2	1351.3	1401.9	1457.8	1503.5	1547.6	1597.4	1648.5
15°	1145.4	1197.1	1255.4	1324.9	1408.8	1470.1	1527.3	1606.8	1661.0	1715.3	1788.3
17.5°	1127.5	1190.7	1263.5	1353.9	1423.9	1506.1	1592.2	1655.0	1728.2	1804.6	1870.8
20°	1113.2	1186.8	1268.2	1357.1	1446.3	1535.7	1619.1	1694.0	1769.6	1857.9	1912.2
22.5°	1099.1	1171.8	1256.4	1350.8	1446.7	1540.8	1635.2	1723.3	1808.3	1897.4	1966.7
25°	1068.8	1155.2	1247.0	1343.2	1437.9	1541.6	1654.1	1752.3	1857.4	1949.2	2014.9
27.5°	1038.2	1117.4	1208.8	1306.4	1411.7	1534.2	1666.5	1778.2	1883.5	1949.2	1969.8
30°	1010.6	1094.5	1178.4	1277.6	1391.6	1528.2	1668.9	1796.7	1883.1	1911.7	1890.5
32.5°	982.6	1058.6	1141.7	1243.2	1364.3	1513.6	1672.1	1785.6	1837.7	1815.8	1729.4
35°	933.1	1001.7	1082.1	1183.8	1323.0	1505.6	1659.1	1736.0	1723.2	1599.8	1437.0
37.5°	880.2	936.1	1010.6	1116.9	1280.2	1473.5	1603.0	1614.3	1503.3	1313.9	1125.8
40°	838.4	888.7	965.3	1076.3	1247.0	1441.9	1546.5	1500.6	1328.4	1117.7	960.8
42.5°	797.8	840.2	913.9	1033.6	1215.4	1398.9	1462.4	1362.4	1163.8	964.5	821.8
45°	728.9	768.8	842.8	965.7	1150.8	1316.5	1308.2	1134.4	935.7	775.2	656.8
47.5°	663.5	698.4	767.9	893.3	1074.9	1193.2	1114.7	929.9	761.2	632.5	548.1
50°	617.4	651.9	721.0	844.8	1014.1	1100.4	988.4	810.3	655.8	549.2	482.1
52.5°	573.2	606.9	670.1	790.7	940.7	992.3	871.9	706.8	578.1	486.1	428.4
55°	511.2	536.9	593.6	709.1	821.1	833.0	711.1	572.9	466.8	402.7	363.2
57.5°	448.2	470.2	526.3	618.3	696.9	690.8	575.2	455.6	384.2	336.6	307.9
60°	407.1	428.9	478.2	557.1	616.3	595.6	489.6	393.3	332.1	297.1	274.4
62.5°	368.8	385.8	432.0	489.7	532.3	508.8	418.5	338.8	290.3	260.7	242.8
65°	313.4	327.2	364.2	394.3	417.9	395.3	320.3	264.9	230.0	209.2	196.9
67.5°	260.6	269.5	292.8	303.7	320.4	295.5	240.8	203.8	183.9	166.4	157.8
70°	227.5	233.9	246.3	255.1	259.6	233.9	193.4	166.3	149.5	137.1	131.8
72.5°	194.4	199.9	202.5	209.7	207.5	183.4	155.5	133.9	121.9	113.5	106.5
75°	148.5	151.0	148.5	145.5	139.1	122.3	103.1	92.3	83.4	79.5	77.0
77.5°	108.3	107.4	104.2	99.4	88.5	77.9	67.6	64.0	60.1	58.1	57.1
80°	83.4	81.4	78.4	71.1	61.6	54.3	51.8	49.4	47.9	45.4	44.9
82.5°	62.1	60.9	56.0	49.8	43.2	39.7	37.6	36.8	35.3	33.9	33.8
85°	33.1	31.6	26.1	22.7	21.7	20.7	20.3	20.3	18.3	17.7	17.7
87.5°	11.6	9.8	10.1	9.5	10.2	10.3	11.4	11.5	11.9	12.5	12.0
90°	4.5	7.6	10.8	13.9	17.5	21.6	25.6	29.8	33.8	35.1	36.3
92.5°	25.4	24.4	23.6	22.7	23.8	26.9	30.0	33.0	36.1	38.1	40.1
95°	73.1	60.3	47.4	34.6	29.9	33.4	36.8	40.2	43.6	45.9	48.1
97.5°	167.0	161.3	155.4	149.7	135.5	113.0	90.5	68.0	45.3	47.9	50.4
100°	244.4	250.6	256.9	263.2	241.9	193.0	144.2	95.4	46.5	49.0	51.5
102.5°	317.1	321.6	326.0	330.5	306.1	252.8	199.4	146.1	92.7	84.9	77.2
105°	423.4	426.8	430.3	433.7	421.3	393.1	365.0	336.8	308.6	253.2	197.7
107.5°	535.9	538.7	541.5	544.2	547.8	552.2	556.8	561.2	565.6	525.0	484.3
110°	611.2	613.7	616.2	618.8	621.7	625.2	628.6	632.1	635.5	625.2	614.8





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	683.2	685.4	687.7	689.8	692.8	696.2	699.6	703.0	706.5	706.7	706.9
115°	789.6	791.5	793.3	795.2	797.6	800.4	803.1	806.0	808.8	811.9	815.1
117.5°	893.4	895.7	898.1	900.4	902.3	903.7	905.1	906.5	908.0	910.5	913.0
120°	958.2	961.0	963.8	966.7	968.6	969.4	970.3	971.3	972.2	974.8	977.3
122.5°	1023.0	1025.4	1027.7	1030.0	1031.8	1032.9	1034.2	1035.3	1036.5	1038.3	1040.0
125°	1112.9	1115.4	1117.9	1120.4	1122.3	1123.5	1124.7	1126.1	1127.3	1127.9	1128.5
127.5°	1199.7	1202.2	1204.7	1207.2	1209.2	1210.7	1212.2	1213.7	1215.2	1216.2	1217.2
130°	1253.8	1256.3	1258.8	1261.3	1263.2	1264.4	1265.6	1267.0	1268.2	1269.4	1270.6
132.5°	1305.6	1308.2	1310.6	1313.2	1314.9	1315.9	1316.9	1317.9	1318.9	1320.1	1321.4
135°	1384.2	1386.1	1388.0	1389.9	1391.4	1392.6	1393.9	1395.2	1396.4	1397.3	1398.3
137.5°	1452.4	1454.7	1457.1	1459.4	1461.0	1461.7	1462.4	1463.1	1463.8	1465.3	1466.8
140°	1496.9	1498.8	1500.7	1502.6	1503.9	1504.9	1505.8	1506.7	1507.7	1509.0	1510.2
142.5°	1538.6	1540.5	1542.4	1544.3	1545.7	1546.6	1547.6	1548.5	1549.4	1550.4	1551.4
145°	1597.2	1599.5	1601.7	1603.8	1605.2	1605.9	1606.5	1607.1	1607.8	1608.4	1609.0
147.5°	1651.5	1652.9	1654.4	1655.8	1656.8	1657.5	1658.1	1658.7	1659.3	1660.0	1660.6
150°	1684.8	1685.7	1686.7	1687.6	1688.4	1689.0	1689.7	1690.3	1690.9	1691.5	1692.1
152.5°	1714.8	1715.1	1715.6	1716.1	1716.5	1716.8	1717.2	1717.6	1718.0	1719.1	1720.2
155°	1756.5	1755.9	1755.3	1754.6	1754.4	1754.8	1755.1	1755.4	1755.7	1757.3	1758.9
157.5°	1790.4	1790.3	1790.2	1790.2	1790.0	1789.6	1789.3	1789.0	1788.7	1790.5	1792.4
160°	1810.3	1810.1	1809.8	1809.4	1809.1	1808.8	1808.5	1808.2	1807.9	1809.8	1811.7
162.5°	1829.0	1828.2	1827.4	1826.6	1826.0	1825.7	1825.4	1825.0	1824.8	1826.9	1829.0
165°	1852.0	1851.1	1850.1	1849.2	1848.6	1848.2	1847.9	1847.7	1847.3	1849.8	1852.3
167.5°	1869.7	1868.5	1867.3	1866.0	1865.4	1865.4	1865.4	1865.4	1865.4	1867.8	1870.4
170°	1879.9	1878.6	1877.4	1876.1	1875.5	1875.5	1875.5	1875.5	1875.5	1878.0	1880.5
172.5°	1886.4	1884.9	1883.4	1881.9	1881.2	1881.5	1881.8	1882.0	1882.3	1884.8	1887.3
175°	1895.1	1893.5	1892.0	1890.4	1889.7	1890.1	1890.4	1890.6	1891.0	1893.2	1895.4
177.5°	1897.6	1896.4	1895.2	1893.9	1893.4	1893.7	1893.9	1894.1	1894.4	1896.4	1898.4
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1215.9	1215.9	1217.5	1223.4	1224.2	1229.4	1227.8
5°	1336.3	1345.7	1349.2	1364.0	1372.8	1376.8	1368.9
7.5°	1483.6	1510.0	1522.6	1538.0	1551.8	1555.9	1545.1
10°	1590.9	1618.5	1641.8	1656.0	1669.4	1678.3	1689.6
12.5°	1694.8	1728.7	1750.8	1770.9	1784.7	1795.9	1797.8
15°	1807.6	1858.9	1897.9	1926.5	1940.8	1948.2	1945.2
17.5°	1921.4	1969.0	1996.7	2025.9	2045.7	2046.7	2047.3
20°	1985.7	2032.1	2064.2	2085.8	2108.1	2107.1	2112.0
22.5°	2028.7	2065.3	2089.8	2105.6	2113.3	2109.5	2110.4
25°	2048.9	2059.7	2055.3	2030.1	2023.7	2000.5	2004.5
27.5°	1945.0	1893.8	1840.6	1772.4	1718.4	1675.5	1677.6
30°	1804.1	1713.4	1609.7	1522.9	1444.9	1423.1	1376.8
32.5°	1607.1	1470.9	1349.5	1268.6	1201.6	1183.6	1143.1
35°	1273.2	1140.9	1016.1	941.0	911.4	870.0	869.5
37.5°	989.6	873.2	807.1	750.8	721.3	696.3	693.8
40°	832.5	741.7	691.8	651.4	622.3	603.5	599.1
42.5°	722.7	649.3	602.7	577.6	555.2	545.4	538.3
45°	590.2	540.8	508.3	485.6	475.2	467.8	463.8
47.5°	493.7	460.6	438.4	423.3	414.9	407.1	409.2
50°	441.2	414.1	397.8	383.4	377.0	371.6	372.1
52.5°	398.9	374.6	361.4	351.1	343.1	339.2	337.3
55°	338.6	323.2	309.9	302.5	298.0	292.7	291.2
57.5°	288.8	276.9	266.1	257.7	256.6	251.4	252.0
60°	255.6	245.7	236.9	232.4	228.9	224.5	226.0
62.5°	228.4	220.1	212.0	208.3	204.9	201.6	202.4
65°	187.0	179.1	174.2	172.2	170.7	169.3	167.8
67.5°	149.0	144.2	141.1	136.9	133.8	133.4	131.9
70°	125.4	118.9	113.5	108.1	106.6	106.1	106.6
72.5°	100.5	96.4	94.9	92.3	92.0	90.7	91.6
75°	75.5	74.0	73.0	71.1	71.1	71.1	71.1
77.5°	55.7	54.8	54.2	53.8	53.3	52.6	52.5
80°	43.5	42.9	41.9	41.9	41.5	41.9	41.5
82.5°	32.8	32.7	31.7	31.7	31.2	30.9	31.2
85°	16.8	16.3	17.2	16.3	16.8	15.8	16.8
87.5°	12.3	12.5	12.3	12.4	12.2	13.1	12.4
90°	37.6	38.8	39.8	40.4	41.0	41.7	42.2
92.5°	42.1	44.1	45.2	45.6	46.0	46.4	46.8
95°	50.2	52.4	53.5	53.5	53.5	53.5	53.5
97.5°	52.9	55.4	56.8	57.1	57.4	57.8	58.1
100°	54.0	56.6	58.0	58.2	58.5	58.9	59.2
102.5°	69.5	61.6	58.1	58.6	59.2	59.8	60.3
105°	142.3	86.9	59.5	60.1	60.8	61.4	62.0
107.5°	443.7	403.0	361.8	320.1	278.2	236.5	194.7
110°	604.5	594.2	566.6	521.8	477.0	432.3	387.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	707.1	707.3	702.7	693.1	683.7	674.3	664.8
115°	818.2	821.3	823.5	824.8	826.0	827.3	828.6
117.5°	915.5	918.0	919.5	919.6	919.9	920.2	920.4
120°	979.8	982.3	983.5	983.5	983.5	983.5	983.5
122.5°	1041.8	1043.6	1044.5	1044.8	1045.0	1045.3	1045.6
125°	1129.2	1129.7	1130.4	1131.1	1131.6	1132.3	1132.9
127.5°	1218.2	1219.2	1219.4	1218.8	1218.1	1217.5	1216.9
130°	1272.0	1273.2	1273.5	1272.9	1272.2	1271.6	1271.0
132.5°	1322.7	1323.9	1324.1	1323.2	1322.4	1321.4	1320.6
135°	1399.2	1400.1	1400.1	1399.2	1398.3	1397.3	1396.4
137.5°	1468.3	1469.8	1470.2	1469.6	1469.0	1468.3	1467.7
140°	1511.5	1512.7	1513.1	1512.4	1511.8	1511.2	1510.5
142.5°	1552.5	1553.4	1553.5	1552.7	1551.7	1550.9	1550.0
145°	1609.7	1610.2	1610.6	1610.6	1610.6	1610.6	1610.6
147.5°	1661.2	1661.9	1661.4	1660.0	1658.6	1657.1	1655.7
150°	1692.8	1693.4	1693.3	1692.3	1691.4	1690.5	1689.5
152.5°	1721.4	1722.5	1722.3	1720.9	1719.4	1718.0	1716.6
155°	1760.4	1762.0	1761.8	1759.9	1758.0	1756.1	1754.4
157.5°	1794.3	1796.2	1795.9	1793.5	1791.0	1788.6	1786.1
160°	1813.5	1815.3	1815.2	1813.0	1810.8	1808.6	1806.5
162.5°	1831.2	1833.2	1833.3	1831.5	1829.5	1827.6	1825.6
165°	1854.8	1857.4	1857.5	1855.3	1853.1	1850.9	1848.7
167.5°	1872.8	1875.4	1875.4	1872.8	1870.4	1867.8	1865.4
170°	1883.0	1885.6	1885.6	1883.0	1880.5	1878.0	1875.5
172.5°	1889.8	1892.2	1892.2	1889.4	1886.7	1883.9	1881.1
175°	1897.5	1899.8	1899.6	1897.1	1894.6	1892.1	1889.6
177.5°	1900.4	1902.4	1902.1	1899.6	1897.1	1894.6	1892.2
180°	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6	1896.6

(END OF REPORT)