

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: P331801

Luminaire Tested: **S122RDIW-S485D1440U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331801  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S485D1440U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

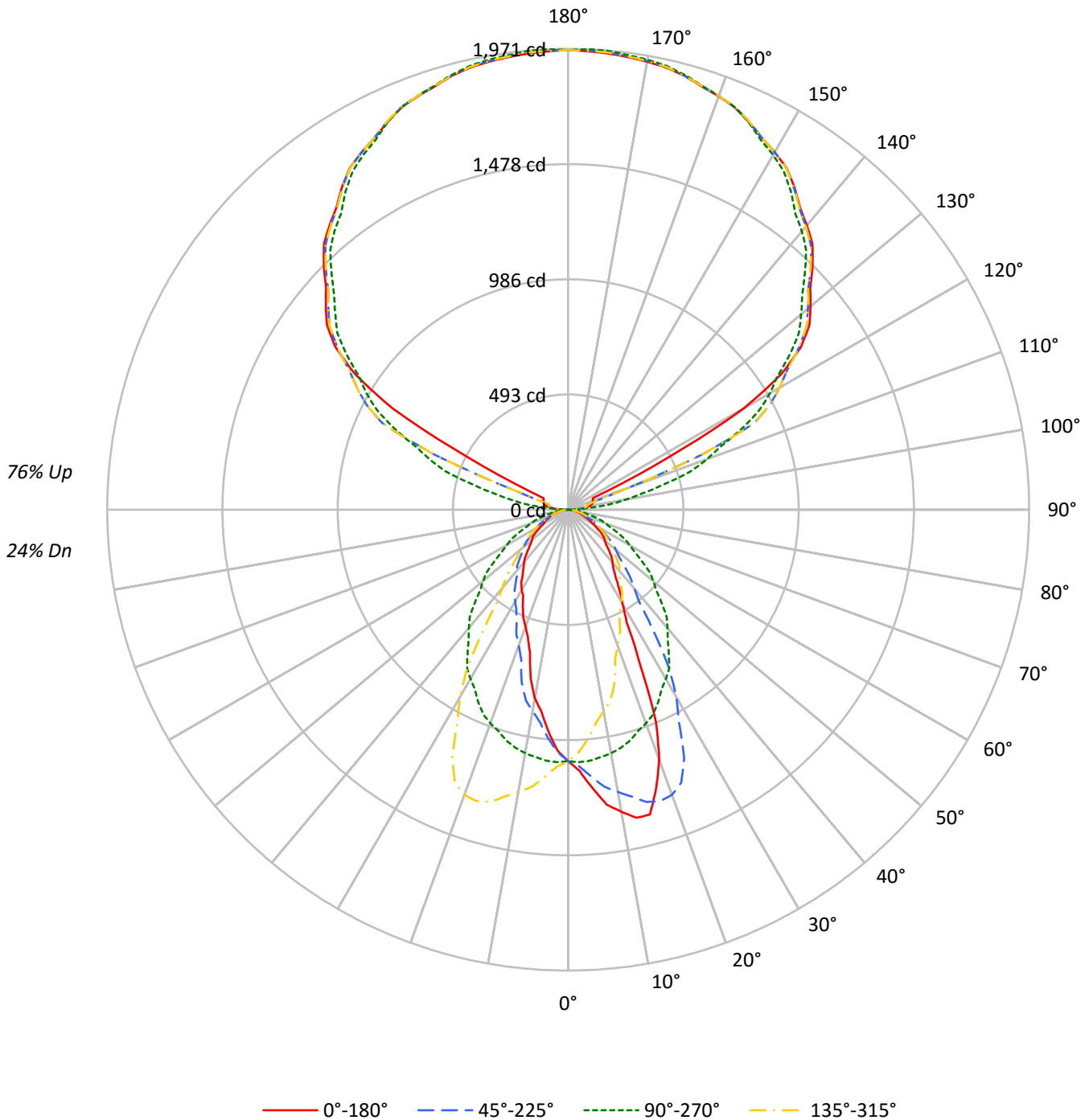
Lumens per Lamp: N/A  
Luminaire Lumens: 7622.3 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	85	82	82	79	76	73	61	59	57	44	43	42	29	29	28	21
2	84	78	72	67	75	69	65	61	54	51	48	40	38	36	26	25	24	18
3	77	68	62	56	69	61	56	51	48	44	41	35	33	31	24	22	21	16
4	71	61	53	48	63	55	48	44	43	38	35	32	29	27	21	20	19	14
5	65	54	47	41	58	49	42	37	38	34	30	29	26	23	19	18	16	13
6	60	49	41	36	53	44	37	33	35	30	27	26	23	21	18	16	15	11
7	55	44	37	31	49	40	33	29	31	27	23	24	21	18	16	15	13	10
8	51	40	33	28	46	36	30	25	29	24	21	22	19	16	15	13	12	9
9	48	36	29	25	43	33	27	23	26	22	19	20	17	15	14	12	11	9
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

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

	0°	90°	180°	270°
0°	17354	17354	17354	17354
5°	19379	17462	15483	17462
10°	21502	17339	13421	17339
15°	22559	17085	10574	17085
20°	19557	16708	9149	16708
25°	12827	16192	8170	16192
30°	8634	15567	7394	15567
35°	6993	14781	6668	14781
40°	6218	13923	6171	13923
45°	5628	12919	5507	12919
50°	5122	11921	5102	11921
55°	4814	10818	4752	10818
60°	4027	9804	3978	9804
65°	3396	8902	3851	8902
70°	3139	7950	3630	7950
75°	2938	6918	3356	6918
80°	2706	5690	2985	5690
85°	2482	4502	2631	4502



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	1.3
10°-20°	283.9	3.7
20°-30°	365.8	4.8
30°-40°	347.6	4.6
40°-50°	297.8	3.9
50°-60°	226.8	3.0
60°-70°	143.4	1.9
70°-80°	71.6	0.9
80°-90°	23.5	0.3
90°-100°	65.6	0.9
100°-110°	240.4	3.2
110°-120°	642.7	8.4
120°-130°	1060.9	13.9
130°-140°	1128.3	14.8
140°-150°	1048.7	13.8
150°-160°	843.1	11.1
160°-170°	543.3	7.1
170°-180°	187.0	2.5
0°-30°	751.6	9.9
0°-40°	1099.2	14.4
0°-60°	1623.8	21.3
0°-90°	1862.3	24.4
90°-120°	948.7	12.4
90°-150°	4186.6	54.9
90°-180°	5760.0	75.6
0°-180°	7622.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1075	1075	1075	1075	1075	
5°	1196	1077	955	1077	1196	118
15°	1350	1022	633	1022	1350	364
25°	720	909	459	909	720	342
35°	355	750	338	750	355	227
45°	246	566	241	566	246	191
55°	171	384	169	384	171	150
65°	89	233	101	233	89	90
75°	47	111	54	111	47	50
85°	13	24	14	24	13	15
90°	38	1	38	1	38	17
95°	61	92	61	92	61	57
105°	108	432	108	432	108	112
115°	117	818	117	818	117	292
125°	1216	1156	1216	1156	1216	1052
135°	1478	1431	1478	1431	1478	1139
145°	1685	1660	1685	1660	1685	1054
155°	1829	1828	1829	1828	1829	844
165°	1921	1926	1921	1926	1921	542
175°	1958	1970	1958	1970	1958	187
180°	1966	1966	1966	1966	1966	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1118.4	1119.3	1120.2	1118.1	1118.1	1116.3	1112.4	1109.4	1101.0	1099.8	1099.8
5°	1195.7	1195.0	1196.5	1191.6	1184.9	1183.4	1176.3	1167.0	1157.3	1146.4	1144.2
7.5°	1272.7	1271.6	1268.6	1267.7	1262.6	1251.3	1239.9	1227.7	1211.6	1195.8	1187.9
10°	1311.5	1323.8	1316.4	1303.3	1305.9	1288.4	1279.0	1263.0	1249.5	1226.0	1220.8
12.5°	1349.7	1354.6	1352.2	1344.8	1341.5	1329.3	1316.7	1302.7	1277.9	1256.8	1238.4
15°	1349.6	1356.7	1358.6	1356.3	1358.2	1357.4	1350.7	1339.1	1317.5	1294.3	1274.2
17.5°	1250.0	1254.9	1267.1	1275.4	1285.9	1308.0	1318.9	1323.2	1319.9	1306.7	1292.5
20°	1138.2	1130.0	1164.4	1181.9	1196.9	1234.2	1266.3	1278.6	1298.4	1298.1	1294.3
22.5°	979.9	981.8	1014.4	1035.2	1078.9	1116.2	1152.8	1199.2	1237.5	1262.8	1277.6
25°	720.0	734.2	766.7	795.0	843.6	913.1	976.2	1049.4	1118.4	1173.0	1224.9
27.5°	540.7	541.8	567.5	593.8	622.6	679.5	759.0	846.4	944.9	1026.1	1119.6
30°	463.1	460.8	471.7	487.7	512.4	556.4	616.2	702.1	800.3	922.8	1031.8
32.5°	408.1	408.2	416.4	428.3	448.7	478.4	519.4	589.1	682.0	802.4	930.2
35°	354.8	354.4	360.4	369.0	377.5	396.6	424.6	461.2	525.1	637.5	768.2
37.5°	316.5	318.2	321.1	326.5	335.9	346.5	363.4	387.9	433.4	499.9	609.7
40°	295.0	295.8	299.9	304.4	310.0	318.2	332.0	351.8	385.0	438.0	518.3
42.5°	275.3	276.0	279.0	283.1	287.5	295.8	307.2	324.3	351.3	392.6	458.9
45°	246.5	246.5	249.1	250.9	255.8	263.3	272.6	286.8	305.5	336.1	380.2
47.5°	219.4	219.5	221.2	224.4	227.5	233.3	242.5	254.1	267.7	291.4	329.0
50°	203.9	204.3	205.4	208.0	209.9	215.1	222.2	232.3	246.5	264.8	296.1
52.5°	191.3	191.1	192.5	193.7	194.9	198.7	204.0	212.9	225.6	241.5	267.5
55°	171.0	169.5	171.8	173.6	174.8	176.3	179.2	184.9	195.7	209.1	228.5
57.5°	145.6	145.0	146.6	148.3	151.8	155.9	158.4	162.0	167.6	177.2	196.5
60°	124.7	124.7	128.1	129.2	133.3	138.5	143.8	146.8	152.4	158.7	172.9
62.5°	106.2	106.5	108.1	109.2	111.5	117.9	125.3	131.8	137.1	143.2	152.6
65°	88.9	89.6	89.6	90.4	91.9	93.4	96.3	101.6	110.9	119.5	126.6
67.5°	75.4	75.7	75.9	76.6	77.0	78.6	79.8	82.2	84.3	92.5	101.3
70°	66.5	67.6	67.2	68.0	68.3	69.1	70.6	71.7	75.1	76.9	82.2
72.5°	58.1	58.9	58.9	59.3	60.3	60.4	61.6	62.7	64.9	66.5	69.3
75°	47.1	46.7	47.1	47.8	48.2	48.5	48.5	50.0	51.2	52.7	54.5
77.5°	36.3	36.7	36.6	36.7	36.7	37.4	37.3	38.0	39.1	39.9	40.8
80°	29.1	29.5	29.1	29.5	29.9	30.2	29.9	30.2	31.4	32.1	32.1
82.5°	22.6	22.6	22.9	22.9	23.0	23.1	23.6	23.7	24.5	24.3	24.6
85°	13.4	13.1	13.1	13.1	13.4	13.8	13.4	13.4	13.8	13.8	13.8
87.5°	12.5	12.6	12.5	12.4	12.3	12.0	11.7	11.7	11.1	11.1	10.3
90°	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6	30.0	28.4	25.9
92.5°	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6	33.8	33.0	31.7
95°	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6	57.0	55.5	53.3
97.5°	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8	75.5	74.2	69.1
100°	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1	83.6	81.1	75.7
102.5°	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9	86.6	83.3	128.3
105°	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7	90.2	86.8	173.0
107.5°	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4	117.9	121.5	224.9
110°	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7	217.3	248.9	340.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2	512.5	627.8	650.3
115°	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9	731.2	877.5	869.6
117.5°	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2	936.6	972.0	966.5
120°	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1	1046.3	1042.5	1036.8
122.5°	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2	1111.9	1109.6	1103.4
125°	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2	1204.0	1201.8	1195.8
127.5°	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3	1288.1	1284.9	1280.4
130°	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3	1341.8	1338.3	1334.8
132.5°	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7	1394.8	1391.8	1388.3
135°	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6	1469.5	1466.3	1463.5
137.5°	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2	1539.1	1536.0	1532.8
140°	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2	1584.4	1581.5	1578.1
142.5°	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8	1626.2	1623.6	1619.6
145°	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9	1684.7	1682.5	1677.1
147.5°	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6	1735.9	1734.3	1729.0
150°	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8	1766.9	1765.0	1759.9
152.5°	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2	1795.3	1793.4	1788.6
155°	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6	1833.7	1831.8	1828.1
157.5°	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0	1865.9	1863.7	1861.0
160°	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8	1884.9	1883.0	1881.1
162.5°	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4	1902.3	1900.1	1898.5
165°	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4	1920.5
167.5°	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8	1941.6	1939.4	1938.5
170°	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9	1950.7	1948.5	1947.8
172.5°	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7	1957.5	1955.3	1954.7
175°	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1	1964.9	1962.7	1962.1
177.5°	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9	1966.2	1964.4	1964.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1100.4	1098.1	1096.0	1090.6	1087.9	1081.9	1081.0	1080.7	1073.0	1065.5	1063.4
5°	1138.2	1132.3	1123.3	1112.8	1102.0	1090.8	1083.3	1077.4	1062.4	1048.2	1040.0
7.5°	1176.3	1163.5	1148.0	1128.2	1111.7	1093.2	1079.5	1067.1	1045.9	1025.6	1011.9
10°	1204.7	1183.8	1163.3	1136.0	1114.7	1093.8	1074.4	1057.6	1033.7	1006.8	987.7
12.5°	1222.3	1199.3	1171.0	1144.4	1116.8	1090.2	1064.2	1042.6	1014.6	986.8	964.1
15°	1246.2	1221.5	1187.2	1149.1	1113.6	1078.9	1049.0	1022.1	985.5	952.3	924.6
17.5°	1265.7	1231.7	1194.8	1150.8	1109.7	1065.6	1027.1	992.7	952.0	911.9	879.4
20°	1271.9	1238.3	1195.7	1151.7	1103.1	1051.2	1009.8	972.4	928.7	885.0	847.7
22.5°	1268.0	1241.9	1194.5	1141.8	1092.1	1037.8	991.0	947.6	899.2	854.6	811.3
25°	1241.7	1232.7	1187.9	1130.4	1073.6	1010.5	956.4	908.9	853.7	805.9	758.8
27.5°	1180.2	1199.6	1171.8	1110.5	1047.4	979.7	918.9	864.9	807.5	753.7	706.8
30°	1121.1	1165.5	1153.5	1096.8	1026.2	959.7	891.4	835.0	773.8	718.5	672.2
32.5°	1040.1	1113.5	1125.2	1077.7	1004.7	931.6	860.0	803.9	740.0	681.7	636.6
35°	911.2	1021.0	1071.4	1041.1	967.9	889.2	815.2	749.9	685.6	628.1	583.3
37.5°	757.4	906.9	991.0	993.1	925.9	844.0	763.5	698.6	632.8	576.4	527.9
40°	657.6	819.7	929.1	953.4	896.6	808.1	726.7	660.6	596.4	541.1	485.5
42.5°	568.0	729.5	864.0	906.2	861.1	773.2	691.5	622.4	559.9	507.6	450.8
45°	459.3	600.5	748.7	824.2	799.2	717.7	631.5	565.8	507.1	461.9	407.4
47.5°	387.5	487.0	630.4	732.5	732.0	657.7	572.9	509.9	455.5	413.2	369.0
50°	346.5	433.2	554.6	670.3	680.0	617.7	537.0	474.6	423.9	379.4	343.9
52.5°	309.8	381.2	490.3	601.3	628.9	574.9	496.7	439.1	389.8	348.9	318.5
55°	261.8	317.0	400.0	503.8	545.6	507.5	438.0	384.3	344.3	310.0	283.8
57.5°	221.4	262.9	329.4	413.0	461.7	437.7	380.5	336.8	302.6	271.5	250.9
60°	196.1	230.0	286.4	356.3	410.0	393.2	344.3	303.6	274.5	247.6	228.2
62.5°	172.2	201.4	249.7	306.4	355.7	348.7	308.8	274.6	249.1	224.6	208.2
65°	138.5	159.8	197.5	242.0	281.6	284.9	256.2	233.0	210.2	190.8	176.3
67.5°	110.3	124.2	150.8	188.2	217.9	228.5	210.9	193.2	175.1	160.1	147.5
70°	93.0	104.2	123.6	153.9	181.1	192.3	182.2	168.4	152.7	140.4	129.6
72.5°	75.4	86.3	100.6	122.8	146.2	158.3	154.8	144.8	132.1	121.9	111.7
75°	56.8	60.1	69.8	84.8	103.1	113.5	116.1	110.9	100.8	93.0	87.0
77.5°	42.0	44.0	48.6	56.5	68.4	77.7	81.6	81.0	74.0	69.5	63.9
80°	33.6	34.7	37.0	40.3	49.3	58.6	61.2	61.2	56.4	54.5	48.9
82.5°	25.5	26.4	27.7	29.6	33.8	41.9	44.8	45.4	42.3	39.9	35.5
85°	14.6	14.2	14.9	16.1	16.8	19.0	23.5	24.3	23.5	20.5	19.4
87.5°	9.8	9.5	9.0	8.1	7.7	7.4	8.1	8.9	8.4	8.2	8.3
90°	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4	4.9	8.4	11.9
92.5°	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7	28.4	28.1	27.8
95°	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4	82.0	71.6	61.2
97.5°	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5	154.1	124.7	95.3
100°	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7	208.4	165.1	121.8
102.5°	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8	317.7	308.5	299.3
105°	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4	441.8	451.3	460.8
107.5°	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7	560.3	568.0	575.6
110°	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1	636.7	643.3	650.0





TEST NUMBER: P331801

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9	708.7	714.6	720.5
115°	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8	823.2	828.5	833.9
117.5°	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5	926.5	932.5	938.5
120°	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6	1000.3	1005.0	1009.8
122.5°	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3	1064.3	1069.3	1074.3
125°	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3	1160.4	1164.5	1168.6
127.5°	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2	1248.7	1253.3	1257.8
130°	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9	1305.0	1310.0	1315.1
132.5°	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8	1361.1	1365.4	1369.7
135°	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8	1435.8	1440.9	1445.9
137.5°	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6	1509.1	1512.7	1516.2
140°	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5	1557.0	1559.6	1562.1
142.5°	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5	1597.7	1600.0	1602.3
145°	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8	1659.4	1659.1	1658.8
147.5°	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8	1714.6	1713.4	1712.2
150°	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2	1750.0	1747.8	1745.6
152.5°	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9	1780.5	1778.0	1775.5
155°	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6	1824.7	1821.9	1819.0
157.5°	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6	1860.2	1857.8	1855.4
160°	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1881.1	1879.3	1877.4
162.5°	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2	1899.4	1897.5	1895.6
165°	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7	1923.8	1921.9	1920.0
167.5°	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9	1942.0	1940.1	1938.2
170°	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2	1952.3	1950.4	1948.5
172.5°	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0	1959.1	1957.2	1955.3
175°	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8	1967.6	1965.4	1963.2
177.5°	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2	1969.5	1967.7	1965.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331801

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1059.5	1057.4	1053.5	1047.6	1044.0	1037.7	1033.5	1035.9	1036.5	1035.9	1035.3
5°	1031.1	1023.2	1012.4	1001.9	992.2	981.8	975.8	973.2	967.9	965.0	963.5
7.5°	996.6	983.1	967.8	949.6	934.1	917.9	909.6	905.5	894.8	889.0	883.9
10°	970.9	949.6	934.3	910.4	895.9	874.6	860.0	860.4	845.8	837.6	831.6
12.5°	942.6	919.2	893.7	872.2	852.0	834.9	817.3	810.2	794.7	786.8	770.7
15°	895.5	868.2	841.4	812.2	791.7	765.2	739.8	708.8	683.8	662.1	656.1
17.5°	844.1	810.4	783.4	749.2	714.0	669.4	640.0	622.0	606.9	595.5	587.0
20°	808.9	774.5	745.8	694.2	646.8	616.5	594.9	581.1	565.4	553.1	546.3
22.5°	771.8	736.0	696.8	639.2	602.3	578.0	558.7	542.8	532.2	522.6	516.5
25°	719.2	680.0	615.4	575.8	546.0	520.6	507.1	497.4	486.2	473.1	467.2
27.5°	663.7	601.3	554.9	525.5	497.0	480.5	468.4	453.9	443.9	438.0	431.8
30°	622.1	559.8	523.6	491.4	471.3	453.0	438.8	430.6	420.9	410.8	406.7
32.5°	575.8	526.0	491.3	464.6	444.1	428.5	417.3	404.0	397.0	390.8	382.2
35°	518.3	480.6	448.9	427.2	407.8	395.1	382.0	374.2	361.5	356.3	352.9
37.5°	469.6	436.9	413.2	390.4	375.0	361.0	353.0	340.5	335.0	327.7	320.6
40°	442.1	410.0	387.3	368.6	351.4	340.9	330.9	320.8	312.6	309.2	300.6
42.5°	414.1	387.9	365.1	344.7	333.2	322.1	309.4	302.0	293.4	288.0	282.7
45°	375.3	352.2	332.7	315.9	303.2	291.7	283.4	271.1	266.3	255.4	250.9
47.5°	341.2	319.7	301.2	285.2	272.8	265.3	253.3	243.6	235.9	229.2	223.5
50°	317.0	299.1	281.2	267.0	255.8	245.0	232.7	227.8	215.8	212.5	209.1
52.5°	294.9	277.9	261.5	247.6	236.4	225.9	215.0	208.7	200.6	197.2	194.8
55°	264.0	247.6	231.9	219.6	208.4	197.5	190.8	183.0	179.2	176.6	173.6
57.5°	232.9	218.2	206.1	193.7	182.4	173.8	166.0	161.3	157.4	154.0	150.4
60°	213.2	199.0	188.2	176.6	165.1	158.0	152.0	146.4	141.9	136.7	135.2
62.5°	192.3	179.9	170.0	158.7	148.6	142.1	136.5	131.2	125.8	118.2	116.1
65°	163.6	153.9	143.4	134.1	125.1	118.8	110.5	104.6	102.3	101.6	101.2
67.5°	137.6	128.4	119.4	109.9	101.7	95.8	91.6	90.7	89.2	88.7	87.7
70°	120.2	111.7	102.7	93.7	85.9	84.8	83.3	81.8	79.9	79.2	78.4
72.5°	104.7	95.8	86.9	79.7	76.3	74.9	73.4	71.9	70.7	69.9	69.5
75°	80.3	72.1	66.1	63.5	61.6	60.5	58.3	57.1	56.4	55.3	54.9
77.5°	57.8	53.2	50.4	48.8	46.8	45.6	44.4	43.2	42.4	42.2	41.6
80°	44.1	41.8	40.0	37.7	37.0	35.5	35.1	34.0	34.4	33.2	33.2
82.5°	34.2	31.4	29.8	28.8	28.0	26.8	26.4	25.9	26.0	25.2	25.2
85°	17.6	16.8	16.1	15.3	15.3	14.2	14.6	14.2	14.2	13.4	13.1
87.5°	8.7	9.0	9.0	9.5	10.0	10.2	10.5	10.5	10.8	11.1	11.1
90°	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6	33.2	34.8	35.9
92.5°	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6	35.5	36.3	36.9
95°	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6	60.2	61.8	62.4
97.5°	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8	78.0	79.3	80.1
100°	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1	88.7	91.2	92.8
102.5°	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9	93.2	96.5	98.6
105°	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7	97.2	100.7	103.0
107.5°	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4	110.8	107.3	106.2
110°	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7	154.1	122.5	107.3



TEST NUMBER: P331801

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2	281.9	166.6	109.4
115°	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9	438.5	292.2	207.6
117.5°	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2	865.8	830.4	775.3
120°	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1	1053.9	1057.7	1038.2
122.5°	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2	1116.5	1118.7	1115.7
125°	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2	1208.4	1210.6	1212.2
127.5°	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3	1294.5	1297.7	1299.5
130°	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3	1348.8	1352.2	1353.8
132.5°	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7	1400.7	1403.7	1405.0
135°	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6	1475.8	1479.0	1480.2
137.5°	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2	1545.3	1548.4	1549.4
140°	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2	1590.1	1592.9	1593.5
142.5°	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8	1631.4	1634.0	1634.5
145°	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9	1689.1	1691.4	1691.7
147.5°	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6	1739.2	1740.9	1741.0
150°	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8	1770.7	1772.6	1772.7
152.5°	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2	1799.1	1801.0	1800.9
155°	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6	1837.5	1839.4	1839.1
157.5°	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0	1870.1	1872.3	1872.1
160°	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8	1888.7	1890.6	1890.5
162.5°	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4	1906.6	1908.7	1908.4
165°	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3
167.5°	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8	1946.0	1948.2	1947.9
170°	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9	1955.1	1957.3	1957.0
172.5°	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7	1961.9	1964.1	1963.8
175°	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1	1969.3	1971.5	1971.1
177.5°	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9	1969.7	1971.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331801

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1032.0	1032.6	1031.7	1032.3	1031.7	1032.6	1032.0	1035.3	1035.9	1036.5	1035.9
5°	961.6	957.1	956.4	955.3	956.4	957.1	961.6	963.5	965.0	967.9	973.2
7.5°	877.5	876.8	875.0	872.3	875.0	876.8	877.5	883.9	889.0	894.8	905.5
10°	823.4	821.6	821.2	818.6	821.2	821.6	823.4	831.6	837.6	845.8	860.4
12.5°	760.1	748.1	746.8	740.3	746.8	748.1	760.1	770.7	786.8	794.7	810.2
15°	647.2	644.9	637.5	632.6	637.5	644.9	647.2	656.1	662.1	683.8	708.8
17.5°	582.6	575.3	573.0	572.0	573.0	575.3	582.6	587.0	595.5	606.9	622.0
20°	541.1	534.4	533.3	532.5	533.3	534.4	541.1	546.3	553.1	565.4	581.1
22.5°	512.4	505.4	502.5	500.3	502.5	505.4	512.4	516.5	522.6	532.2	542.8
25°	463.4	460.8	459.3	458.6	459.3	460.8	463.4	467.2	473.1	486.2	497.4
27.5°	425.1	419.4	418.2	416.3	418.2	419.4	425.1	431.8	438.0	443.9	453.9
30°	403.3	401.4	398.8	396.6	398.8	401.4	403.3	406.7	410.8	420.9	430.6
32.5°	377.6	376.1	373.7	372.7	373.7	376.1	377.6	382.2	390.8	397.0	404.0
35°	349.2	343.9	341.7	338.3	341.7	343.9	349.2	352.9	356.3	361.5	374.2
37.5°	319.1	316.3	313.2	314.3	313.2	316.3	319.1	320.6	327.7	335.0	340.5
40°	295.8	293.9	293.1	292.8	293.1	293.9	295.8	300.6	309.2	312.6	320.8
42.5°	277.2	272.1	270.1	270.1	270.1	272.1	277.2	282.7	288.0	293.4	302.0
45°	249.1	244.2	240.9	241.2	240.9	244.2	249.1	250.9	255.4	266.3	271.1
47.5°	220.3	220.1	218.0	218.7	218.0	220.1	220.3	223.5	229.2	235.9	243.6
50°	206.5	204.3	202.8	203.1	202.8	204.3	206.5	209.1	212.5	215.8	227.8
52.5°	193.4	191.4	190.2	191.8	190.2	191.4	193.4	194.8	197.2	200.6	208.7
55°	171.8	169.5	169.2	168.8	169.2	169.5	171.8	173.6	176.6	179.2	183.0
57.5°	147.7	146.2	143.9	143.0	143.9	146.2	147.7	150.4	154.0	157.4	161.3
60°	130.3	127.3	123.6	123.2	123.6	127.3	130.3	135.2	136.7	141.9	146.4
62.5°	114.5	113.9	113.2	113.1	113.2	113.9	114.5	116.1	118.2	125.8	131.2
65°	100.5	100.1	100.5	100.8	100.5	100.1	100.5	101.2	101.6	102.3	104.6
67.5°	87.5	86.9	86.2	86.5	86.2	86.9	87.5	87.7	88.7	89.2	90.7
70°	77.7	77.3	76.9	76.9	76.9	77.3	77.7	78.4	79.2	79.9	81.8
72.5°	68.1	68.0	67.7	67.4	67.7	68.0	68.1	69.5	69.9	70.7	71.9
75°	54.5	53.8	53.8	53.8	53.8	53.8	54.5	54.9	55.3	56.4	57.1
77.5°	41.5	41.2	40.8	40.5	40.8	41.2	41.5	41.6	42.2	42.4	43.2
80°	32.9	32.5	32.1	32.1	32.1	32.5	32.9	33.2	33.2	34.4	34.0
82.5°	25.1	24.7	24.6	24.3	24.6	24.7	25.1	25.2	25.2	26.0	25.9
85°	13.4	13.8	13.4	14.2	13.4	13.8	13.4	13.1	13.4	14.2	14.2
87.5°	11.2	11.0	11.4	11.3	11.4	11.0	11.2	11.1	11.1	10.8	10.5
90°	36.5	37.1	37.8	38.4	37.8	37.1	36.5	35.9	34.8	33.2	31.6
92.5°	37.3	37.6	38.0	38.4	38.0	37.6	37.3	36.9	36.3	35.5	34.6
95°	62.1	61.8	61.5	61.2	61.5	61.8	62.1	62.4	61.8	60.2	58.6
97.5°	80.5	80.9	81.3	81.6	81.3	80.9	80.5	80.1	79.3	78.0	76.8
100°	93.4	94.0	94.7	95.3	94.7	94.0	93.4	92.8	91.2	88.7	86.1
102.5°	99.5	100.3	101.2	102.1	101.2	100.3	99.5	98.6	96.5	93.2	89.9
105°	104.3	105.6	106.8	108.1	106.8	105.6	104.3	103.0	100.7	97.2	93.7
107.5°	107.4	108.7	110.0	111.2	110.0	108.7	107.4	106.2	107.3	110.8	114.4
110°	108.6	109.8	111.1	112.4	111.1	109.8	108.6	107.3	122.5	154.1	185.7



TEST NUMBER: P331801

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	110.5	111.5	112.5	113.5	112.5	111.5	110.5	109.4	166.6	281.9	397.2
115°	184.9	162.1	139.4	116.6	139.4	162.1	184.9	207.6	292.2	438.5	584.9
117.5°	700.5	625.7	550.9	476.2	550.9	625.7	700.5	775.3	830.4	865.8	901.2
120°	995.6	952.9	910.2	867.6	910.2	952.9	995.6	1038.2	1057.7	1053.9	1050.1
122.5°	1107.4	1099.2	1090.9	1082.6	1090.9	1099.2	1107.4	1115.7	1118.7	1116.5	1114.2
125°	1213.2	1214.1	1215.1	1216.0	1215.1	1214.1	1213.2	1212.2	1210.6	1208.4	1206.2
127.5°	1299.6	1299.8	1300.0	1300.2	1300.0	1299.8	1299.6	1299.5	1297.7	1294.5	1291.3
130°	1353.5	1353.2	1352.9	1352.5	1352.9	1353.2	1353.5	1353.8	1352.2	1348.8	1345.3
132.5°	1404.7	1404.4	1404.1	1403.7	1404.1	1404.4	1404.7	1405.0	1403.7	1400.7	1397.7
135°	1479.6	1479.0	1478.3	1477.7	1478.3	1479.0	1479.6	1480.2	1479.0	1475.8	1472.6
137.5°	1548.3	1547.3	1546.2	1545.1	1546.2	1547.3	1548.3	1549.4	1548.4	1545.3	1542.2
140°	1592.0	1590.4	1588.8	1587.2	1588.8	1590.4	1592.0	1593.5	1592.9	1590.1	1587.2
142.5°	1632.9	1631.3	1629.8	1628.2	1629.8	1631.3	1632.9	1634.5	1634.0	1631.4	1628.8
145°	1690.1	1688.5	1686.9	1685.4	1686.9	1688.5	1690.1	1691.7	1691.4	1689.1	1686.9
147.5°	1739.7	1738.4	1737.0	1735.7	1737.0	1738.4	1739.7	1741.0	1740.9	1739.2	1737.6
150°	1771.2	1769.6	1768.0	1766.4	1768.0	1769.6	1771.2	1772.7	1772.6	1770.7	1768.8
152.5°	1798.8	1796.8	1794.7	1792.6	1794.7	1796.8	1798.8	1800.9	1801.0	1799.1	1797.2
155°	1836.6	1834.1	1831.5	1829.0	1831.5	1834.1	1836.6	1839.1	1839.4	1837.5	1835.6
157.5°	1869.7	1867.2	1864.7	1862.3	1864.7	1867.2	1869.7	1872.1	1872.3	1870.1	1868.0
160°	1888.3	1886.0	1883.8	1881.6	1883.8	1886.0	1888.3	1890.5	1890.6	1888.7	1886.8
162.5°	1905.7	1903.0	1900.3	1897.6	1900.3	1903.0	1905.7	1908.4	1908.7	1906.6	1904.4
165°	1928.1	1925.9	1923.7	1921.4	1923.7	1925.9	1928.1	1930.3	1930.3	1928.1	1925.9
167.5°	1945.1	1942.2	1939.4	1936.5	1939.4	1942.2	1945.1	1947.9	1948.2	1946.0	1943.8
170°	1954.2	1951.3	1948.5	1945.6	1948.5	1951.3	1954.2	1957.0	1957.3	1955.1	1952.9
172.5°	1961.0	1958.1	1955.3	1952.4	1955.3	1958.1	1961.0	1963.8	1964.1	1961.9	1959.7
175°	1967.9	1964.7	1961.6	1958.4	1961.6	1964.7	1967.9	1971.1	1971.5	1969.3	1967.1
177.5°	1968.9	1966.7	1964.4	1962.1	1964.4	1966.7	1968.9	1971.2	1971.5	1969.7	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331801

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1033.5	1037.7	1044.0	1047.6	1053.5	1057.4	1059.5	1063.4	1065.5	1073.0	1080.7
5°	975.8	981.8	992.2	1001.9	1012.4	1023.2	1031.1	1040.0	1048.2	1062.4	1077.4
7.5°	909.6	917.9	934.1	949.6	967.8	983.1	996.6	1011.9	1025.6	1045.9	1067.1
10°	860.0	874.6	895.9	910.4	934.3	949.6	970.9	987.7	1006.8	1033.7	1057.6
12.5°	817.3	834.9	852.0	872.2	893.7	919.2	942.6	964.1	986.8	1014.6	1042.6
15°	739.8	765.2	791.7	812.2	841.4	868.2	895.5	924.6	952.3	985.5	1022.1
17.5°	640.0	669.4	714.0	749.2	783.4	810.4	844.1	879.4	911.9	952.0	992.7
20°	594.9	616.5	646.8	694.2	745.8	774.5	808.9	847.7	885.0	928.7	972.4
22.5°	558.7	578.0	602.3	639.2	696.8	736.0	771.8	811.3	854.6	899.2	947.6
25°	507.1	520.6	546.0	575.8	615.4	680.0	719.2	758.8	805.9	853.7	908.9
27.5°	468.4	480.5	497.0	525.5	554.9	601.3	663.7	706.8	753.7	807.5	864.9
30°	438.8	453.0	471.3	491.4	523.6	559.8	622.1	672.2	718.5	773.8	835.0
32.5°	417.3	428.5	444.1	464.6	491.3	526.0	575.8	636.6	681.7	740.0	803.9
35°	382.0	395.1	407.8	427.2	448.9	480.6	518.3	583.3	628.1	685.6	749.9
37.5°	353.0	361.0	375.0	390.4	413.2	436.9	469.6	527.9	576.4	632.8	698.6
40°	330.9	340.9	351.4	368.6	387.3	410.0	442.1	485.5	541.1	596.4	660.6
42.5°	309.4	322.1	333.2	344.7	365.1	387.9	414.1	450.8	507.6	559.9	622.4
45°	283.4	291.7	303.2	315.9	332.7	352.2	375.3	407.4	461.9	507.1	565.8
47.5°	253.3	265.3	272.8	285.2	301.2	319.7	341.2	369.0	413.2	455.5	509.9
50°	232.7	245.0	255.8	267.0	281.2	299.1	317.0	343.9	379.4	423.9	474.6
52.5°	215.0	225.9	236.4	247.6	261.5	277.9	294.9	318.5	348.9	389.8	439.1
55°	190.8	197.5	208.4	219.6	231.9	247.6	264.0	283.8	310.0	344.3	384.3
57.5°	166.0	173.8	182.4	193.7	206.1	218.2	232.9	250.9	271.5	302.6	336.8
60°	152.0	158.0	165.1	176.6	188.2	199.0	213.2	228.2	247.6	274.5	303.6
62.5°	136.5	142.1	148.6	158.7	170.0	179.9	192.3	208.2	224.6	249.1	274.6
65°	110.5	118.8	125.1	134.1	143.4	153.9	163.6	176.3	190.8	210.2	233.0
67.5°	91.6	95.8	101.7	109.9	119.4	128.4	137.6	147.5	160.1	175.1	193.2
70°	83.3	84.8	85.9	93.7	102.7	111.7	120.2	129.6	140.4	152.7	168.4
72.5°	73.4	74.9	76.3	79.7	86.9	95.8	104.7	111.7	121.9	132.1	144.8
75°	58.3	60.5	61.6	63.5	66.1	72.1	80.3	87.0	93.0	100.8	110.9
77.5°	44.4	45.6	46.8	48.8	50.4	53.2	57.8	63.9	69.5	74.0	81.0
80°	35.1	35.5	37.0	37.7	40.0	41.8	44.1	48.9	54.5	56.4	61.2
82.5°	26.4	26.8	28.0	28.8	29.8	31.4	34.2	35.5	39.9	42.3	45.4
85°	14.6	14.2	15.3	15.3	16.1	16.8	17.6	19.4	20.5	23.5	24.3
87.5°	10.5	10.2	10.0	9.5	9.0	9.0	8.7	8.3	8.2	8.4	8.9
90°	30.0	28.4	25.9	23.4	20.9	18.3	15.3	11.9	8.4	4.9	1.4
92.5°	33.8	33.0	31.7	30.5	29.2	27.9	27.5	27.8	28.1	28.4	28.7
95°	57.0	55.5	53.3	51.0	48.8	46.6	50.7	61.2	71.6	82.0	92.4
97.5°	75.5	74.2	69.1	64.0	58.9	53.8	65.9	95.3	124.7	154.1	183.5
100°	83.6	81.1	75.7	70.3	64.9	59.6	78.5	121.8	165.1	208.4	251.7
102.5°	86.6	83.3	128.3	173.2	218.2	263.1	290.2	299.3	308.5	317.7	326.8
105°	90.2	86.8	173.0	259.3	345.6	431.9	470.3	460.8	451.3	441.8	432.4
107.5°	117.9	121.5	224.9	328.4	431.9	535.4	583.3	575.6	568.0	560.3	552.7
110°	217.3	248.9	340.2	431.6	522.9	614.2	656.6	650.0	643.3	636.7	630.1



TEST NUMBER: P331801

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	512.5	627.8	650.3	672.9	695.5	718.0	726.4	720.5	714.6	708.7	702.9
115°	731.2	877.5	869.6	861.7	853.8	845.9	839.3	833.9	828.5	823.2	817.8
117.5°	936.6	972.0	966.5	961.1	955.6	950.2	944.5	938.5	932.5	926.5	920.5
120°	1046.3	1042.5	1036.8	1031.1	1025.4	1019.7	1014.5	1009.8	1005.0	1000.3	995.6
122.5°	1111.9	1109.6	1103.4	1097.2	1091.0	1084.9	1079.3	1074.3	1069.3	1064.3	1059.3
125°	1204.0	1201.8	1195.8	1189.8	1183.8	1177.8	1172.7	1168.6	1164.5	1160.4	1156.3
127.5°	1288.1	1284.9	1280.4	1275.9	1271.4	1266.9	1262.4	1257.8	1253.3	1248.7	1244.2
130°	1341.8	1338.3	1334.8	1331.4	1327.9	1324.4	1320.2	1315.1	1310.0	1305.0	1299.9
132.5°	1394.8	1391.8	1388.3	1384.8	1381.4	1377.9	1374.0	1369.7	1365.4	1361.1	1356.8
135°	1469.5	1466.3	1463.5	1460.6	1457.8	1454.9	1451.0	1445.9	1440.9	1435.8	1430.8
137.5°	1539.1	1536.0	1532.8	1529.6	1526.3	1523.1	1519.7	1516.2	1512.7	1509.1	1505.6
140°	1584.4	1581.5	1578.1	1574.6	1571.1	1567.6	1564.6	1562.1	1559.6	1557.0	1554.5
142.5°	1626.2	1623.6	1619.6	1615.7	1611.7	1607.7	1604.6	1602.3	1600.0	1597.7	1595.5
145°	1684.7	1682.5	1677.1	1671.8	1666.4	1661.0	1658.5	1658.8	1659.1	1659.4	1659.8
147.5°	1735.9	1734.3	1729.0	1723.7	1718.3	1713.0	1711.0	1712.2	1713.4	1714.6	1715.8
150°	1766.9	1765.0	1759.9	1754.9	1749.8	1744.8	1743.3	1745.6	1747.8	1750.0	1752.2
152.5°	1795.3	1793.4	1788.6	1783.8	1779.0	1774.2	1773.1	1775.5	1778.0	1780.5	1782.9
155°	1833.7	1831.8	1828.1	1824.3	1820.5	1816.7	1816.2	1819.0	1821.9	1824.7	1827.6
157.5°	1865.9	1863.7	1861.0	1858.4	1855.7	1853.1	1853.0	1855.4	1857.8	1860.2	1862.6
160°	1884.9	1883.0	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0
162.5°	1902.3	1900.1	1898.5	1896.8	1895.2	1893.5	1893.7	1895.6	1897.5	1899.4	1901.2
165°	1923.7	1921.4	1920.5	1919.5	1918.6	1917.7	1918.1	1920.0	1921.9	1923.8	1925.7
167.5°	1941.6	1939.4	1938.5	1937.6	1936.7	1935.8	1936.3	1938.2	1940.1	1942.0	1943.9
170°	1950.7	1948.5	1947.8	1947.2	1946.6	1945.9	1946.6	1948.5	1950.4	1952.3	1954.2
172.5°	1957.5	1955.3	1954.7	1954.0	1953.4	1952.8	1953.4	1955.3	1957.2	1959.1	1961.0
175°	1964.9	1962.7	1962.1	1961.4	1960.8	1960.2	1961.0	1963.2	1965.4	1967.6	1969.8
177.5°	1966.2	1964.4	1964.1	1963.9	1963.6	1963.4	1964.1	1965.9	1967.7	1969.5	1971.2
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



TEST NUMBER: P331801

CATALOG NUMBER: S122RDIW-S485D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1081.0	1081.9	1087.9	1090.6	1096.0	1098.1	1100.4	1099.8	1099.8	1101.0	1109.4
5°	1083.3	1090.8	1102.0	1112.8	1123.3	1132.3	1138.2	1144.2	1146.4	1157.3	1167.0
7.5°	1079.5	1093.2	1111.7	1128.2	1148.0	1163.5	1176.3	1187.9	1195.8	1211.6	1227.7
10°	1074.4	1093.8	1114.7	1136.0	1163.3	1183.8	1204.7	1220.8	1226.0	1249.5	1263.0
12.5°	1064.2	1090.2	1116.8	1144.4	1171.0	1199.3	1222.3	1238.4	1256.8	1277.9	1302.7
15°	1049.0	1078.9	1113.6	1149.1	1187.2	1221.5	1246.2	1274.2	1294.3	1317.5	1339.1
17.5°	1027.1	1065.6	1109.7	1150.8	1194.8	1231.7	1265.7	1292.5	1306.7	1319.9	1323.2
20°	1009.8	1051.2	1103.1	1151.7	1195.7	1238.3	1271.9	1294.3	1298.1	1298.4	1278.6
22.5°	991.0	1037.8	1092.1	1141.8	1194.5	1241.9	1268.0	1277.6	1262.8	1237.5	1199.2
25°	956.4	1010.5	1073.6	1130.4	1187.9	1232.7	1241.7	1224.9	1173.0	1118.4	1049.4
27.5°	918.9	979.7	1047.4	1110.5	1171.8	1199.6	1180.2	1119.6	1026.1	944.9	846.4
30°	891.4	959.7	1026.2	1096.8	1153.5	1165.5	1121.1	1031.8	922.8	800.3	702.1
32.5°	860.0	931.6	1004.7	1077.7	1125.2	1113.5	1040.1	930.2	802.4	682.0	589.1
35°	815.2	889.2	967.9	1041.1	1071.4	1021.0	911.2	768.2	637.5	525.1	461.2
37.5°	763.5	844.0	925.9	993.1	991.0	906.9	757.4	609.7	499.9	433.4	387.9
40°	726.7	808.1	896.6	953.4	929.1	819.7	657.6	518.3	438.0	385.0	351.8
42.5°	691.5	773.2	861.1	906.2	864.0	729.5	568.0	458.9	392.6	351.3	324.3
45°	631.5	717.7	799.2	824.2	748.7	600.5	459.3	380.2	336.1	305.5	286.8
47.5°	572.9	657.7	732.0	732.5	630.4	487.0	387.5	329.0	291.4	267.7	254.1
50°	537.0	617.7	680.0	670.3	554.6	433.2	346.5	296.1	264.8	246.5	232.3
52.5°	496.7	574.9	628.9	601.3	490.3	381.2	309.8	267.5	241.5	225.6	212.9
55°	438.0	507.5	545.6	503.8	400.0	317.0	261.8	228.5	209.1	195.7	184.9
57.5°	380.5	437.7	461.7	413.0	329.4	262.9	221.4	196.5	177.2	167.6	162.0
60°	344.3	393.2	410.0	356.3	286.4	230.0	196.1	172.9	158.7	152.4	146.8
62.5°	308.8	348.7	355.7	306.4	249.7	201.4	172.2	152.6	143.2	137.1	131.8
65°	256.2	284.9	281.6	242.0	197.5	159.8	138.5	126.6	119.5	110.9	101.6
67.5°	210.9	228.5	217.9	188.2	150.8	124.2	110.3	101.3	92.5	84.3	82.2
70°	182.2	192.3	181.1	153.9	123.6	104.2	93.0	82.2	76.9	75.1	71.7
72.5°	154.8	158.3	146.2	122.8	100.6	86.3	75.4	69.3	66.5	64.9	62.7
75°	116.1	113.5	103.1	84.8	69.8	60.1	56.8	54.5	52.7	51.2	50.0
77.5°	81.6	77.7	68.4	56.5	48.6	44.0	42.0	40.8	39.9	39.1	38.0
80°	61.2	58.6	49.3	40.3	37.0	34.7	33.6	32.1	32.1	31.4	30.2
82.5°	44.8	41.9	33.8	29.6	27.7	26.4	25.5	24.6	24.3	24.5	23.7
85°	23.5	19.0	16.8	16.1	14.9	14.2	14.6	13.8	13.8	13.8	13.4
87.5°	8.1	7.4	7.7	8.1	9.0	9.5	9.8	10.3	11.1	11.1	11.7
90°	4.9	8.4	11.9	15.3	18.3	20.9	23.4	25.9	28.4	30.0	31.6
92.5°	28.4	28.1	27.8	27.5	27.9	29.2	30.5	31.7	33.0	33.8	34.6
95°	82.0	71.6	61.2	50.7	46.6	48.8	51.0	53.3	55.5	57.0	58.6
97.5°	154.1	124.7	95.3	65.9	53.8	58.9	64.0	69.1	74.2	75.5	76.8
100°	208.4	165.1	121.8	78.5	59.6	64.9	70.3	75.7	81.1	83.6	86.1
102.5°	317.7	308.5	299.3	290.2	263.1	218.2	173.2	128.3	83.3	86.6	89.9
105°	441.8	451.3	460.8	470.3	431.9	345.6	259.3	173.0	86.8	90.2	93.7
107.5°	560.3	568.0	575.6	583.3	535.4	431.9	328.4	224.9	121.5	117.9	114.4
110°	636.7	643.3	650.0	656.6	614.2	522.9	431.6	340.2	248.9	217.3	185.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	708.7	714.6	720.5	726.4	718.0	695.5	672.9	650.3	627.8	512.5	397.2
115°	823.2	828.5	833.9	839.3	845.9	853.8	861.7	869.6	877.5	731.2	584.9
117.5°	926.5	932.5	938.5	944.5	950.2	955.6	961.1	966.5	972.0	936.6	901.2
120°	1000.3	1005.0	1009.8	1014.5	1019.7	1025.4	1031.1	1036.8	1042.5	1046.3	1050.1
122.5°	1064.3	1069.3	1074.3	1079.3	1084.9	1091.0	1097.2	1103.4	1109.6	1111.9	1114.2
125°	1160.4	1164.5	1168.6	1172.7	1177.8	1183.8	1189.8	1195.8	1201.8	1204.0	1206.2
127.5°	1248.7	1253.3	1257.8	1262.4	1266.9	1271.4	1275.9	1280.4	1284.9	1288.1	1291.3
130°	1305.0	1310.0	1315.1	1320.2	1324.4	1327.9	1331.4	1334.8	1338.3	1341.8	1345.3
132.5°	1361.1	1365.4	1369.7	1374.0	1377.9	1381.4	1384.8	1388.3	1391.8	1394.8	1397.7
135°	1435.8	1440.9	1445.9	1451.0	1454.9	1457.8	1460.6	1463.5	1466.3	1469.5	1472.6
137.5°	1509.1	1512.7	1516.2	1519.7	1523.1	1526.3	1529.6	1532.8	1536.0	1539.1	1542.2
140°	1557.0	1559.6	1562.1	1564.6	1567.6	1571.1	1574.6	1578.1	1581.5	1584.4	1587.2
142.5°	1597.7	1600.0	1602.3	1604.6	1607.7	1611.7	1615.7	1619.6	1623.6	1626.2	1628.8
145°	1659.4	1659.1	1658.8	1658.5	1661.0	1666.4	1671.8	1677.1	1682.5	1684.7	1686.9
147.5°	1714.6	1713.4	1712.2	1711.0	1713.0	1718.3	1723.7	1729.0	1734.3	1735.9	1737.6
150°	1750.0	1747.8	1745.6	1743.3	1744.8	1749.8	1754.9	1759.9	1765.0	1766.9	1768.8
152.5°	1780.5	1778.0	1775.5	1773.1	1774.2	1779.0	1783.8	1788.6	1793.4	1795.3	1797.2
155°	1824.7	1821.9	1819.0	1816.2	1816.7	1820.5	1824.3	1828.1	1831.8	1833.7	1835.6
157.5°	1860.2	1857.8	1855.4	1853.0	1853.1	1855.7	1858.4	1861.0	1863.7	1865.9	1868.0
160°	1881.1	1879.3	1877.4	1875.5	1875.5	1877.4	1879.3	1881.1	1883.0	1884.9	1886.8
162.5°	1899.4	1897.5	1895.6	1893.7	1893.5	1895.2	1896.8	1898.5	1900.1	1902.3	1904.4
165°	1923.8	1921.9	1920.0	1918.1	1917.7	1918.6	1919.5	1920.5	1921.4	1923.7	1925.9
167.5°	1942.0	1940.1	1938.2	1936.3	1935.8	1936.7	1937.6	1938.5	1939.4	1941.6	1943.8
170°	1952.3	1950.4	1948.5	1946.6	1945.9	1946.6	1947.2	1947.8	1948.5	1950.7	1952.9
172.5°	1959.1	1957.2	1955.3	1953.4	1952.8	1953.4	1954.0	1954.7	1955.3	1957.5	1959.7
175°	1967.6	1965.4	1963.2	1961.0	1960.2	1960.8	1961.4	1962.1	1962.7	1964.9	1967.1
177.5°	1969.5	1967.7	1965.9	1964.1	1963.4	1963.6	1963.9	1964.1	1964.4	1966.2	1967.9
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8	1074.8
2.5°	1112.4	1116.3	1118.1	1118.1	1120.2	1119.3	1118.4
5°	1176.3	1183.4	1184.9	1191.6	1196.5	1195.0	1195.7
7.5°	1239.9	1251.3	1262.6	1267.7	1268.6	1271.6	1272.7
10°	1279.0	1288.4	1305.9	1303.3	1316.4	1323.8	1311.5
12.5°	1316.7	1329.3	1341.5	1344.8	1352.2	1354.6	1349.7
15°	1350.7	1357.4	1358.2	1356.3	1358.6	1356.7	1349.6
17.5°	1318.9	1308.0	1285.9	1275.4	1267.1	1254.9	1250.0
20°	1266.3	1234.2	1196.9	1181.9	1164.4	1130.0	1138.2
22.5°	1152.8	1116.2	1078.9	1035.2	1014.4	981.8	979.9
25°	976.2	913.1	843.6	795.0	766.7	734.2	720.0
27.5°	759.0	679.5	622.6	593.8	567.5	541.8	540.7
30°	616.2	556.4	512.4	487.7	471.7	460.8	463.1
32.5°	519.4	478.4	448.7	428.3	416.4	408.2	408.1
35°	424.6	396.6	377.5	369.0	360.4	354.4	354.8
37.5°	363.4	346.5	335.9	326.5	321.1	318.2	316.5
40°	332.0	318.2	310.0	304.4	299.9	295.8	295.0
42.5°	307.2	295.8	287.5	283.1	279.0	276.0	275.3
45°	272.6	263.3	255.8	250.9	249.1	246.5	246.5
47.5°	242.5	233.3	227.5	224.4	221.2	219.5	219.4
50°	222.2	215.1	209.9	208.0	205.4	204.3	203.9
52.5°	204.0	198.7	194.9	193.7	192.5	191.1	191.3
55°	179.2	176.3	174.8	173.6	171.8	169.5	171.0
57.5°	158.4	155.9	151.8	148.3	146.6	145.0	145.6
60°	143.8	138.5	133.3	129.2	128.1	124.7	124.7
62.5°	125.3	117.9	111.5	109.2	108.1	106.5	106.2
65°	96.3	93.4	91.9	90.4	89.6	89.6	88.9
67.5°	79.8	78.6	77.0	76.6	75.9	75.7	75.4
70°	70.6	69.1	68.3	68.0	67.2	67.6	66.5
72.5°	61.6	60.4	60.3	59.3	58.9	58.9	58.1
75°	48.5	48.5	48.2	47.8	47.1	46.7	47.1
77.5°	37.3	37.4	36.7	36.7	36.6	36.7	36.3
80°	29.9	30.2	29.9	29.5	29.1	29.5	29.1
82.5°	23.6	23.1	23.0	22.9	22.9	22.6	22.6
85°	13.4	13.8	13.4	13.1	13.1	13.1	13.4
87.5°	11.7	12.0	12.3	12.4	12.5	12.6	12.5
90°	33.2	34.8	35.9	36.5	37.1	37.8	38.4
92.5°	35.5	36.3	36.9	37.3	37.6	38.0	38.4
95°	60.2	61.8	62.4	62.1	61.8	61.5	61.2
97.5°	78.0	79.3	80.1	80.5	80.9	81.3	81.6
100°	88.7	91.2	92.8	93.4	94.0	94.7	95.3
102.5°	93.2	96.5	98.6	99.5	100.3	101.2	102.1
105°	97.2	100.7	103.0	104.3	105.6	106.8	108.1
107.5°	110.8	107.3	106.2	107.4	108.7	110.0	111.2
110°	154.1	122.5	107.3	108.6	109.8	111.1	112.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	281.9	166.6	109.4	110.5	111.5	112.5	113.5
115°	438.5	292.2	207.6	184.9	162.1	139.4	116.6
117.5°	865.8	830.4	775.3	700.5	625.7	550.9	476.2
120°	1053.9	1057.7	1038.2	995.6	952.9	910.2	867.6
122.5°	1116.5	1118.7	1115.7	1107.4	1099.2	1090.9	1082.6
125°	1208.4	1210.6	1212.2	1213.2	1214.1	1215.1	1216.0
127.5°	1294.5	1297.7	1299.5	1299.6	1299.8	1300.0	1300.2
130°	1348.8	1352.2	1353.8	1353.5	1353.2	1352.9	1352.5
132.5°	1400.7	1403.7	1405.0	1404.7	1404.4	1404.1	1403.7
135°	1475.8	1479.0	1480.2	1479.6	1479.0	1478.3	1477.7
137.5°	1545.3	1548.4	1549.4	1548.3	1547.3	1546.2	1545.1
140°	1590.1	1592.9	1593.5	1592.0	1590.4	1588.8	1587.2
142.5°	1631.4	1634.0	1634.5	1632.9	1631.3	1629.8	1628.2
145°	1689.1	1691.4	1691.7	1690.1	1688.5	1686.9	1685.4
147.5°	1739.2	1740.9	1741.0	1739.7	1738.4	1737.0	1735.7
150°	1770.7	1772.6	1772.7	1771.2	1769.6	1768.0	1766.4
152.5°	1799.1	1801.0	1800.9	1798.8	1796.8	1794.7	1792.6
155°	1837.5	1839.4	1839.1	1836.6	1834.1	1831.5	1829.0
157.5°	1870.1	1872.3	1872.1	1869.7	1867.2	1864.7	1862.3
160°	1888.7	1890.6	1890.5	1888.3	1886.0	1883.8	1881.6
162.5°	1906.6	1908.7	1908.4	1905.7	1903.0	1900.3	1897.6
165°	1928.1	1930.3	1930.3	1928.1	1925.9	1923.7	1921.4
167.5°	1946.0	1948.2	1947.9	1945.1	1942.2	1939.4	1936.5
170°	1955.1	1957.3	1957.0	1954.2	1951.3	1948.5	1945.6
172.5°	1961.9	1964.1	1963.8	1961.0	1958.1	1955.3	1952.4
175°	1969.3	1971.5	1971.1	1967.9	1964.7	1961.6	1958.4
177.5°	1969.7	1971.5	1971.2	1968.9	1966.7	1964.4	1962.1
180°	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5	1965.5

(END OF REPORT)