

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: P331821

Luminaire Tested: **S122RDIW-S675D1440U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331821  
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-S675D1440U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

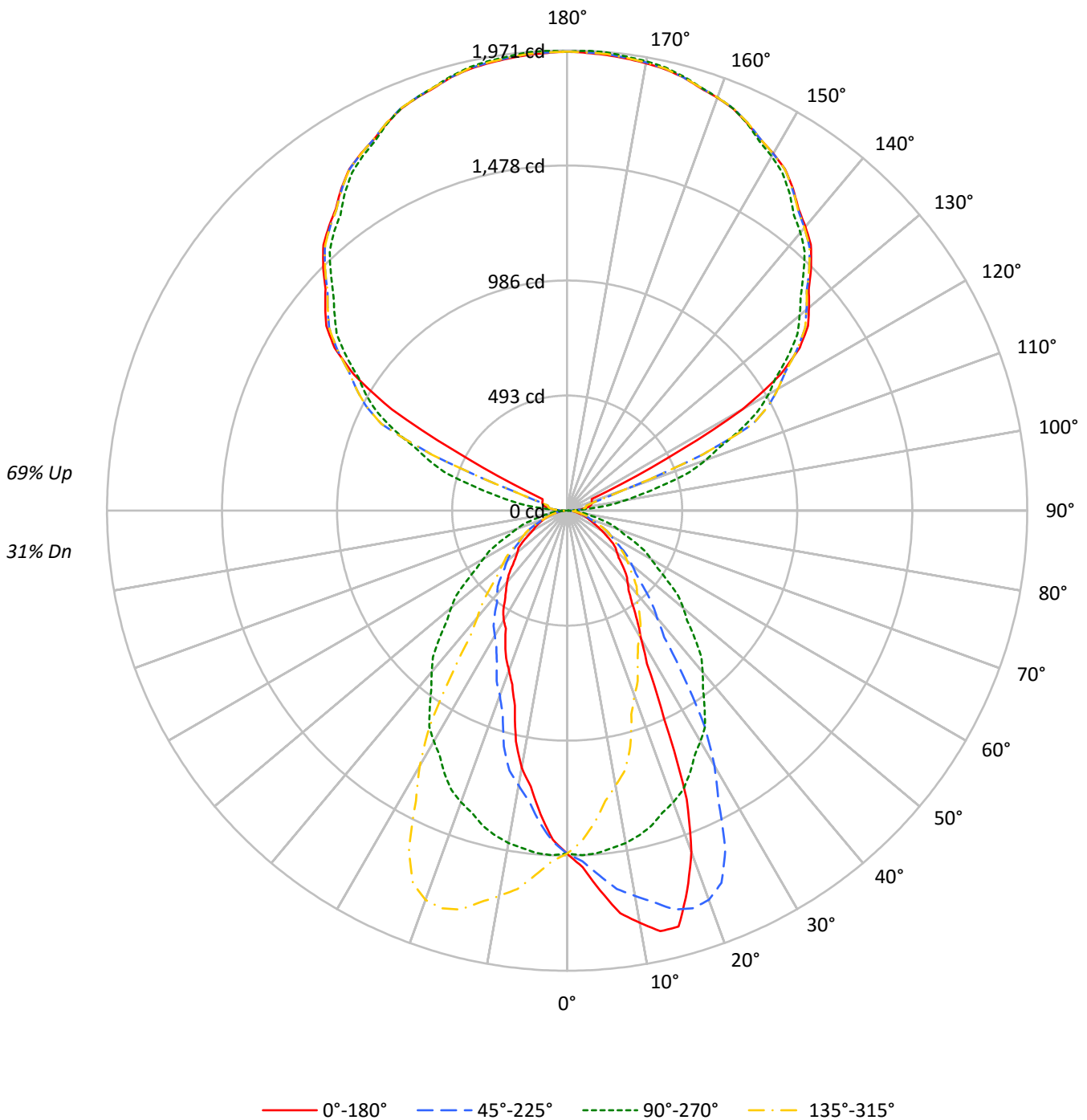
Lumens per Lamp: N/A  
Luminaire Lumens: 8303.8 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (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



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**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	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	46	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

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

	0°	90°	180°	270°
0°	23720	23720	23720	23720
5°	26491	23869	21162	23869
10°	29391	23700	18344	23700
15°	30837	23353	14454	23353
20°	26734	22838	12507	22838
25°	17533	22133	11166	22133
30°	11801	21280	10107	21280
35°	9558	20203	9116	20203
40°	8500	19032	8435	19032
45°	7693	17657	7531	17657
50°	7001	16297	6975	16297
55°	6581	14787	6494	14787
60°	5506	13401	5438	13401
65°	4642	12168	5265	12168
70°	4291	10867	4966	10867
75°	4011	9457	4585	9457
80°	3701	7782	4082	7782
85°	3409	6150	3594	6150



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	1.7
10°-20°	388.0	4.7
20°-30°	500.0	6.0
30°-40°	475.2	5.7
40°-50°	407.1	4.9
50°-60°	310.0	3.7
60°-70°	196.0	2.4
70°-80°	97.9	1.2
80°-90°	30.3	0.4
90°-100°	65.6	0.8
100°-110°	240.4	2.9
110°-120°	642.7	7.7
120°-130°	1060.9	12.8
130°-140°	1128.3	13.6
140°-150°	1048.7	12.6
150°-160°	843.1	10.2
160°-170°	543.3	6.5
170°-180°	187.0	2.3
0°-30°	1027.3	12.4
0°-40°	1502.5	18.1
0°-60°	2219.6	26.7
0°-90°	2543.7	30.6
90°-120°	948.7	11.4
90°-150°	4186.6	50.4
90°-180°	5760.0	69.4
0°-180°	8303.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1634	1473	1306	1473	1634	161
15°	1845	1397	865	1397	1845	498
25°	984	1242	627	1242	984	467
35°	485	1025	462	1025	485	310
45°	337	773	330	773	337	261
55°	234	525	231	525	234	205
65°	122	318	138	318	122	124
75°	64	152	74	152	64	68
85°	18	33	19	33	18	21
90°	38	1	38	1	38	18
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	



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1528.7	1529.9	1531.2	1528.3	1528.3	1525.8	1520.5	1516.5	1505.0	1503.4	1503.4
5°	1634.5	1633.4	1635.5	1628.9	1619.7	1617.6	1607.9	1595.2	1581.9	1567.1	1564.0
7.5°	1739.6	1738.1	1734.0	1732.9	1725.8	1710.4	1694.8	1678.2	1656.1	1634.6	1623.8
10°	1792.7	1809.6	1799.3	1781.5	1785.1	1761.1	1748.3	1726.4	1708.0	1675.8	1668.7
12.5°	1845.0	1851.6	1848.4	1838.2	1833.6	1817.0	1799.8	1780.7	1746.8	1717.9	1692.8
15°	1844.8	1854.5	1857.0	1854.0	1856.5	1855.5	1846.3	1830.5	1800.9	1769.2	1741.7
17.5°	1708.6	1715.3	1732.1	1743.4	1757.7	1787.9	1802.8	1808.6	1804.2	1786.2	1766.8
20°	1555.9	1544.6	1591.6	1615.6	1636.0	1687.0	1730.9	1747.8	1774.8	1774.3	1769.2
22.5°	1339.4	1342.1	1386.6	1415.1	1474.7	1525.7	1575.8	1639.2	1691.5	1726.1	1746.4
25°	984.2	1003.6	1048.0	1086.8	1153.1	1248.1	1334.3	1434.4	1528.8	1603.3	1674.3
27.5°	739.1	740.6	775.8	811.6	851.0	928.8	1037.4	1156.9	1291.5	1402.6	1530.4
30°	633.0	629.9	644.7	666.7	700.3	760.6	842.2	959.7	1093.9	1261.3	1410.4
32.5°	557.8	558.0	569.2	585.4	613.4	654.0	709.9	805.3	932.2	1096.8	1271.5
35°	484.9	484.4	492.6	504.3	516.1	542.1	580.4	630.4	717.7	871.3	1050.0
37.5°	432.7	434.9	438.9	446.2	459.2	473.7	496.7	530.3	592.4	683.3	833.5
40°	403.3	404.3	409.9	416.0	423.7	434.9	453.8	480.8	526.3	598.8	708.5
42.5°	376.3	377.3	381.3	387.0	393.0	404.3	419.9	443.3	480.1	536.7	627.2
45°	336.9	336.9	340.5	343.0	349.7	359.9	372.6	392.0	417.6	459.4	519.6
47.5°	299.9	300.0	302.4	306.8	311.0	318.9	331.5	347.3	365.9	398.3	449.7
50°	278.7	279.2	280.7	284.3	286.9	294.0	303.7	317.5	336.9	361.9	404.8
52.5°	261.6	261.2	263.2	264.7	266.5	271.6	278.8	291.0	308.3	330.1	365.6
55°	233.8	231.7	234.8	237.4	238.9	240.9	245.0	252.7	267.5	285.9	312.4
57.5°	199.1	198.3	200.4	202.8	207.6	213.1	216.5	221.4	229.1	242.3	268.6
60°	170.5	170.5	175.1	176.6	182.2	189.4	196.5	200.6	208.3	216.9	236.3
62.5°	145.2	145.6	147.7	149.3	152.4	161.2	171.2	180.2	187.4	195.7	208.6
65°	121.5	122.5	122.5	123.5	125.6	127.6	131.7	138.8	151.6	163.3	173.0
67.5°	103.1	103.4	103.7	104.7	105.3	107.5	109.1	112.3	115.3	126.4	138.4
70°	90.9	92.4	91.9	92.9	93.4	94.4	96.5	98.0	102.6	105.2	112.3
72.5°	79.4	80.5	80.4	81.1	82.4	82.6	84.2	85.8	88.7	90.9	94.7
75°	64.3	63.8	64.3	65.3	65.8	66.4	66.4	68.4	69.9	72.0	74.5
77.5°	49.6	50.1	50.0	50.1	50.2	51.1	51.0	52.0	53.5	54.5	55.7
80°	39.8	40.3	39.8	40.3	40.8	41.3	40.8	41.3	42.9	43.9	43.9
82.5°	30.8	30.9	31.2	31.3	31.4	31.5	32.3	32.4	33.5	33.3	33.7
85°	18.4	17.9	17.9	17.9	18.4	18.9	18.4	18.4	18.9	18.9	18.9
87.5°	14.2	14.5	14.4	14.2	14.1	13.9	13.6	13.7	12.9	13.0	12.1
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



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**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



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1504.2	1500.9	1498.1	1490.7	1487.1	1478.9	1477.7	1477.3	1466.6	1456.4	1453.6
5°	1555.9	1547.7	1535.4	1521.1	1506.3	1491.0	1480.8	1472.7	1452.2	1432.8	1421.6
7.5°	1607.9	1590.4	1569.2	1542.2	1519.6	1494.3	1475.5	1458.7	1429.7	1401.9	1383.2
10°	1646.7	1618.1	1590.1	1552.8	1523.7	1495.1	1468.6	1445.6	1412.9	1376.2	1350.1
12.5°	1670.8	1639.4	1600.7	1564.2	1526.6	1490.2	1454.7	1425.2	1386.8	1348.8	1317.9
15°	1703.4	1669.7	1622.7	1570.7	1522.2	1474.7	1433.9	1397.1	1347.1	1301.7	1263.9
17.5°	1730.0	1683.7	1633.2	1573.0	1516.9	1456.5	1403.9	1357.0	1301.3	1246.5	1202.0
20°	1738.6	1692.7	1634.5	1574.2	1507.9	1436.9	1380.3	1329.2	1269.5	1209.8	1158.7
22.5°	1733.3	1697.6	1632.8	1560.8	1492.8	1418.5	1354.5	1295.3	1229.1	1168.1	1108.9
25°	1697.3	1685.0	1623.8	1545.1	1467.6	1381.3	1307.3	1242.4	1166.9	1101.6	1037.2
27.5°	1613.2	1639.7	1601.7	1518.0	1431.7	1339.2	1256.0	1182.2	1103.8	1030.3	966.2
30°	1532.4	1593.1	1576.8	1499.2	1402.7	1311.9	1218.5	1141.4	1057.7	982.1	918.8
32.5°	1421.7	1522.1	1538.0	1473.1	1373.3	1273.5	1175.6	1098.9	1011.5	931.9	870.2
35°	1245.5	1395.6	1464.5	1423.1	1323.1	1215.4	1114.3	1025.0	937.2	858.6	797.3
37.5°	1035.3	1239.7	1354.5	1357.5	1265.6	1153.6	1043.6	954.9	865.0	787.8	721.6
40°	898.9	1120.4	1270.0	1303.2	1225.6	1104.6	993.3	903.0	815.2	739.6	663.6
42.5°	776.4	997.1	1181.0	1238.7	1177.0	1056.8	945.2	850.7	765.4	693.9	616.2
45°	627.9	820.8	1023.5	1126.6	1092.4	981.1	863.2	773.3	693.2	631.4	556.9
47.5°	529.6	665.6	861.7	1001.2	1000.6	899.0	783.0	697.0	622.7	564.8	504.4
50°	473.7	592.1	758.0	916.3	929.5	844.3	734.0	648.8	579.4	518.6	470.1
52.5°	423.5	521.1	670.2	821.9	859.7	785.9	678.9	600.2	532.8	477.0	435.4
55°	357.8	433.4	546.7	688.6	745.8	693.7	598.8	525.3	470.6	423.7	387.9
57.5°	302.7	359.4	450.3	564.6	631.1	598.4	520.0	460.3	413.6	371.1	342.9
60°	268.0	314.4	391.5	487.0	560.5	537.5	470.6	415.0	375.2	338.4	311.9
62.5°	235.3	275.2	341.3	418.8	486.2	476.7	422.0	375.4	340.5	307.0	284.5
65°	189.4	218.5	270.0	330.8	384.9	389.5	350.2	318.5	287.4	260.8	240.9
67.5°	150.8	169.8	206.1	257.3	297.8	312.3	288.3	264.1	239.4	218.9	201.6
70°	127.1	142.4	169.0	210.3	247.6	262.9	249.1	230.2	208.8	191.9	177.1
72.5°	103.0	117.9	137.5	167.8	199.8	216.3	211.5	198.0	180.6	166.6	152.6
75°	77.6	82.2	95.5	115.9	140.9	155.2	158.8	151.6	137.8	127.1	118.9
77.5°	57.4	60.1	66.5	77.2	93.5	106.3	111.5	110.7	101.2	94.9	87.3
80°	45.9	47.5	50.5	55.1	67.4	80.1	83.7	83.7	77.1	74.5	66.9
82.5°	34.9	36.0	37.9	40.4	46.1	57.3	61.3	62.1	57.9	54.5	48.5
85°	19.9	19.4	20.4	21.9	23.0	26.0	32.2	33.2	32.2	28.1	26.5
87.5°	11.6	11.5	11.0	10.0	9.7	9.4	10.8	12.1	11.2	10.7	10.5
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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1448.3	1445.4	1440.1	1431.9	1427.0	1418.4	1412.7	1416.0	1416.8	1416.0	1415.2
5°	1409.4	1398.6	1383.8	1369.5	1356.3	1342.0	1333.8	1330.2	1323.1	1319.0	1317.0
7.5°	1362.3	1343.8	1322.9	1298.0	1276.8	1254.7	1243.4	1237.7	1223.1	1215.2	1208.2
10°	1327.2	1298.1	1277.2	1244.5	1224.6	1195.5	1175.6	1176.1	1156.2	1144.9	1136.8
12.5°	1288.4	1256.4	1221.6	1192.2	1164.5	1141.2	1117.2	1107.5	1086.3	1075.5	1053.5
15°	1224.1	1186.8	1150.1	1110.2	1082.2	1045.9	1011.2	968.8	934.6	905.0	896.9
17.5°	1153.8	1107.7	1070.8	1024.1	976.0	915.0	874.8	850.2	829.6	814.0	802.3
20°	1105.6	1058.7	1019.4	948.9	884.1	842.8	813.2	794.3	772.8	756.0	746.8
22.5°	1055.0	1006.0	952.4	873.8	823.3	790.1	763.7	742.0	727.5	714.3	706.0
25°	983.1	929.5	841.2	787.1	746.3	711.6	693.2	679.9	664.6	646.7	638.6
27.5°	907.2	821.9	758.5	718.3	679.3	656.7	640.2	620.4	606.7	598.7	590.2
30°	850.4	765.2	715.7	671.8	644.2	619.2	599.8	588.6	575.3	561.5	555.9
32.5°	787.1	719.0	671.6	635.0	607.0	585.7	570.4	552.2	542.6	534.1	522.4
35°	708.5	657.0	613.6	584.0	557.4	540.1	522.2	511.5	494.1	487.0	482.4
37.5°	641.9	597.2	564.9	533.6	512.6	493.4	482.5	465.4	457.9	448.0	438.3
40°	604.4	560.5	529.3	503.8	480.3	466.0	452.3	438.5	427.2	422.7	410.9
42.5°	566.0	530.3	499.1	471.1	455.4	440.3	422.9	412.8	401.1	393.7	386.4
45°	513.0	481.4	454.8	431.8	414.5	398.7	387.4	370.6	364.0	349.1	343.0
47.5°	466.5	437.0	411.7	389.9	372.9	362.6	346.2	333.0	322.4	313.3	305.5
50°	433.4	408.9	384.4	365.0	349.7	334.9	318.0	311.4	295.0	290.4	285.9
52.5°	403.2	379.9	357.4	338.4	323.1	308.7	293.9	285.2	274.2	269.6	266.3
55°	360.9	338.4	317.0	300.1	284.8	270.0	260.8	250.1	245.0	241.4	237.4
57.5°	318.4	298.2	281.8	264.7	249.3	237.6	226.9	220.5	215.2	210.5	205.6
60°	291.5	272.1	257.3	241.4	225.6	215.9	207.8	200.1	194.0	186.8	184.8
62.5°	262.9	245.9	232.4	216.9	203.2	194.3	186.5	179.3	171.9	161.5	158.6
65°	223.6	210.3	196.0	183.3	171.0	162.3	151.1	142.9	139.9	138.8	138.3
67.5°	188.1	175.5	163.2	150.2	139.0	131.0	125.3	124.0	121.9	121.3	119.9
70°	164.4	152.6	140.4	128.1	117.4	115.9	113.8	111.8	109.2	108.2	107.2
72.5°	143.1	131.0	118.7	108.9	104.3	102.4	100.4	98.3	96.6	95.6	94.9
75°	109.7	98.5	90.4	86.8	84.2	82.7	79.6	78.1	77.1	75.5	75.0
77.5°	79.0	72.7	68.9	66.7	64.0	62.4	60.6	59.1	58.0	57.7	56.9
80°	60.2	57.2	54.6	51.6	50.5	48.5	48.0	46.5	47.0	45.4	45.4
82.5°	46.8	42.9	40.7	39.3	38.3	36.7	36.1	35.4	35.5	34.4	34.4
85°	24.0	23.0	21.9	20.9	20.9	19.4	19.9	19.4	19.4	18.4	17.9
87.5°	10.8	11.0	10.7	11.2	11.7	11.8	12.1	12.0	12.4	12.7	12.5
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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1410.7	1411.5	1410.3	1411.1	1410.3	1411.5	1410.7	1415.2	1416.0	1416.8	1416.0
5°	1314.4	1308.3	1307.3	1305.7	1307.3	1308.3	1314.4	1317.0	1319.0	1323.1	1330.2
7.5°	1199.5	1198.5	1196.0	1192.4	1196.0	1198.5	1199.5	1208.2	1215.2	1223.1	1237.7
10°	1125.5	1123.0	1122.5	1118.9	1122.5	1123.0	1125.5	1136.8	1144.9	1156.2	1176.1
12.5°	1039.0	1022.5	1020.8	1011.9	1020.8	1022.5	1039.0	1053.5	1075.5	1086.3	1107.5
15°	884.6	881.6	871.3	864.7	871.3	881.6	884.6	896.9	905.0	934.6	968.8
17.5°	796.4	786.4	783.2	781.8	783.2	786.4	796.4	802.3	814.0	829.6	850.2
20°	739.6	730.5	728.9	727.9	728.9	730.5	739.6	746.8	756.0	772.8	794.3
22.5°	700.4	690.8	686.9	683.8	686.9	690.8	700.4	706.0	714.3	727.5	742.0
25°	633.5	629.9	627.9	626.8	627.9	629.9	633.5	638.6	646.7	664.6	679.9
27.5°	581.1	573.2	571.7	569.1	571.7	573.2	581.1	590.2	598.7	606.7	620.4
30°	551.3	548.7	545.2	542.1	545.2	548.7	551.3	555.9	561.5	575.3	588.6
32.5°	516.2	514.0	510.9	509.4	510.9	514.0	516.2	522.4	534.1	542.6	552.2
35°	477.3	470.1	467.1	462.5	467.1	470.1	477.3	482.4	487.0	494.1	511.5
37.5°	436.1	432.4	428.1	429.6	428.1	432.4	436.1	438.3	448.0	457.9	465.4
40°	404.3	401.7	400.7	400.2	400.7	401.7	404.3	410.9	422.7	427.2	438.5
42.5°	379.0	371.9	369.3	369.2	369.3	371.9	379.0	386.4	393.7	401.1	412.8
45°	340.5	333.8	329.2	329.8	329.2	333.8	340.5	343.0	349.1	364.0	370.6
47.5°	301.1	300.9	298.0	298.9	298.0	300.9	301.1	305.5	313.3	322.4	333.0
50°	282.3	279.2	277.2	277.7	277.2	279.2	282.3	285.9	290.4	295.0	311.4
52.5°	264.3	261.7	260.0	262.2	260.0	261.7	264.3	266.3	269.6	274.2	285.2
55°	234.8	231.7	231.2	230.7	231.2	231.7	234.8	237.4	241.4	245.0	250.1
57.5°	201.8	199.8	196.7	195.4	196.7	199.8	201.8	205.6	210.5	215.2	220.5
60°	178.1	174.1	169.0	168.4	169.0	174.1	178.1	184.8	186.8	194.0	200.1
62.5°	156.5	155.7	154.7	154.6	154.7	155.7	156.5	158.6	161.5	171.9	179.3
65°	137.3	136.8	137.3	137.8	137.3	136.8	137.3	138.3	138.8	139.9	142.9
67.5°	119.7	118.7	117.8	118.2	117.8	118.7	119.7	119.9	121.3	121.9	124.0
70°	106.2	105.7	105.2	105.2	105.2	105.7	106.2	107.2	108.2	109.2	111.8
72.5°	93.1	93.0	92.5	92.1	92.5	93.0	93.1	94.9	95.6	96.6	98.3
75°	74.5	73.5	73.5	73.5	73.5	73.5	74.5	75.0	75.5	77.1	78.1
77.5°	56.8	56.3	55.7	55.3	55.7	56.3	56.8	56.9	57.7	58.0	59.1
80°	44.9	44.4	43.9	43.9	43.9	44.4	44.9	45.4	45.4	47.0	46.5
82.5°	34.3	33.8	33.7	33.3	33.7	33.8	34.3	34.4	34.4	35.5	35.4
85°	18.4	18.9	18.4	19.4	18.4	18.9	18.4	17.9	18.4	19.4	19.4
87.5°	12.6	12.3	12.9	12.6	12.9	12.3	12.6	12.5	12.7	12.4	12.0
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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1412.7	1418.4	1427.0	1431.9	1440.1	1445.4	1448.3	1453.6	1456.4	1466.6	1477.3
5°	1333.8	1342.0	1356.3	1369.5	1383.8	1398.6	1409.4	1421.6	1432.8	1452.2	1472.7
7.5°	1243.4	1254.7	1276.8	1298.0	1322.9	1343.8	1362.3	1383.2	1401.9	1429.7	1458.7
10°	1175.6	1195.5	1224.6	1244.5	1277.2	1298.1	1327.2	1350.1	1376.2	1412.9	1445.6
12.5°	1117.2	1141.2	1164.5	1192.2	1221.6	1256.4	1288.4	1317.9	1348.8	1386.8	1425.2
15°	1011.2	1045.9	1082.2	1110.2	1150.1	1186.8	1224.1	1263.9	1301.7	1347.1	1397.1
17.5°	874.8	915.0	976.0	1024.1	1070.8	1107.7	1153.8	1202.0	1246.5	1301.3	1357.0
20°	813.2	842.8	884.1	948.9	1019.4	1058.7	1105.6	1158.7	1209.8	1269.5	1329.2
22.5°	763.7	790.1	823.3	873.8	952.4	1006.0	1055.0	1108.9	1168.1	1229.1	1295.3
25°	693.2	711.6	746.3	787.1	841.2	929.5	983.1	1037.2	1101.6	1166.9	1242.4
27.5°	640.2	656.7	679.3	718.3	758.5	821.9	907.2	966.2	1030.3	1103.8	1182.2
30°	599.8	619.2	644.2	671.8	715.7	765.2	850.4	918.8	982.1	1057.7	1141.4
32.5°	570.4	585.7	607.0	635.0	671.6	719.0	787.1	870.2	931.9	1011.5	1098.9
35°	522.2	540.1	557.4	584.0	613.6	657.0	708.5	797.3	858.6	937.2	1025.0
37.5°	482.5	493.4	512.6	533.6	564.9	597.2	641.9	721.6	787.8	865.0	954.9
40°	452.3	466.0	480.3	503.8	529.3	560.5	604.4	663.6	739.6	815.2	903.0
42.5°	422.9	440.3	455.4	471.1	499.1	530.3	566.0	616.2	693.9	765.4	850.7
45°	387.4	398.7	414.5	431.8	454.8	481.4	513.0	556.9	631.4	693.2	773.3
47.5°	346.2	362.6	372.9	389.9	411.7	437.0	466.5	504.4	564.8	622.7	697.0
50°	318.0	334.9	349.7	365.0	384.4	408.9	433.4	470.1	518.6	579.4	648.8
52.5°	293.9	308.7	323.1	338.4	357.4	379.9	403.2	435.4	477.0	532.8	600.2
55°	260.8	270.0	284.8	300.1	317.0	338.4	360.9	387.9	423.7	470.6	525.3
57.5°	226.9	237.6	249.3	264.7	281.8	298.2	318.4	342.9	371.1	413.6	460.3
60°	207.8	215.9	225.6	241.4	257.3	272.1	291.5	311.9	338.4	375.2	415.0
62.5°	186.5	194.3	203.2	216.9	232.4	245.9	262.9	284.5	307.0	340.5	375.4
65°	151.1	162.3	171.0	183.3	196.0	210.3	223.6	240.9	260.8	287.4	318.5
67.5°	125.3	131.0	139.0	150.2	163.2	175.5	188.1	201.6	218.9	239.4	264.1
70°	113.8	115.9	117.4	128.1	140.4	152.6	164.4	177.1	191.9	208.8	230.2
72.5°	100.4	102.4	104.3	108.9	118.7	131.0	143.1	152.6	166.6	180.6	198.0
75°	79.6	82.7	84.2	86.8	90.4	98.5	109.7	118.9	127.1	137.8	151.6
77.5°	60.6	62.4	64.0	66.7	68.9	72.7	79.0	87.3	94.9	101.2	110.7
80°	48.0	48.5	50.5	51.6	54.6	57.2	60.2	66.9	74.5	77.1	83.7
82.5°	36.1	36.7	38.3	39.3	40.7	42.9	46.8	48.5	54.5	57.9	62.1
85°	19.9	19.4	20.9	20.9	21.9	23.0	24.0	26.5	28.1	32.2	33.2
87.5°	12.1	11.8	11.7	11.2	10.7	11.0	10.8	10.5	10.7	11.2	12.1
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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**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: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1477.7	1478.9	1487.1	1490.7	1498.1	1500.9	1504.2	1503.4	1503.4	1505.0	1516.5
5°	1480.8	1491.0	1506.3	1521.1	1535.4	1547.7	1555.9	1564.0	1567.1	1581.9	1595.2
7.5°	1475.5	1494.3	1519.6	1542.2	1569.2	1590.4	1607.9	1623.8	1634.6	1656.1	1678.2
10°	1468.6	1495.1	1523.7	1552.8	1590.1	1618.1	1646.7	1668.7	1675.8	1708.0	1726.4
12.5°	1454.7	1490.2	1526.6	1564.2	1600.7	1639.4	1670.8	1692.8	1717.9	1746.8	1780.7
15°	1433.9	1474.7	1522.2	1570.7	1622.7	1669.7	1703.4	1741.7	1769.2	1800.9	1830.5
17.5°	1403.9	1456.5	1516.9	1573.0	1633.2	1683.7	1730.0	1766.8	1786.2	1804.2	1808.6
20°	1380.3	1436.9	1507.9	1574.2	1634.5	1692.7	1738.6	1769.2	1774.3	1774.8	1747.8
22.5°	1354.5	1418.5	1492.8	1560.8	1632.8	1697.6	1733.3	1746.4	1726.1	1691.5	1639.2
25°	1307.3	1381.3	1467.6	1545.1	1623.8	1685.0	1697.3	1674.3	1603.3	1528.8	1434.4
27.5°	1256.0	1339.2	1431.7	1518.0	1601.7	1639.7	1613.2	1530.4	1402.6	1291.5	1156.9
30°	1218.5	1311.9	1402.7	1499.2	1576.8	1593.1	1532.4	1410.4	1261.3	1093.9	959.7
32.5°	1175.6	1273.5	1373.3	1473.1	1538.0	1522.1	1421.7	1271.5	1096.8	932.2	805.3
35°	1114.3	1215.4	1323.1	1423.1	1464.5	1395.6	1245.5	1050.0	871.3	717.7	630.4
37.5°	1043.6	1153.6	1265.6	1357.5	1354.5	1239.7	1035.3	833.5	683.3	592.4	530.3
40°	993.3	1104.6	1225.6	1303.2	1270.0	1120.4	898.9	708.5	598.8	526.3	480.8
42.5°	945.2	1056.8	1177.0	1238.7	1181.0	997.1	776.4	627.2	536.7	480.1	443.3
45°	863.2	981.1	1092.4	1126.6	1023.5	820.8	627.9	519.6	459.4	417.6	392.0
47.5°	783.0	899.0	1000.6	1001.2	861.7	665.6	529.6	449.7	398.3	365.9	347.3
50°	734.0	844.3	929.5	916.3	758.0	592.1	473.7	404.8	361.9	336.9	317.5
52.5°	678.9	785.9	859.7	821.9	670.2	521.1	423.5	365.6	330.1	308.3	291.0
55°	598.8	693.7	745.8	688.6	546.7	433.4	357.8	312.4	285.9	267.5	252.7
57.5°	520.0	598.4	631.1	564.6	450.3	359.4	302.7	268.6	242.3	229.1	221.4
60°	470.6	537.5	560.5	487.0	391.5	314.4	268.0	236.3	216.9	208.3	200.6
62.5°	422.0	476.7	486.2	418.8	341.3	275.2	235.3	208.6	195.7	187.4	180.2
65°	350.2	389.5	384.9	330.8	270.0	218.5	189.4	173.0	163.3	151.6	138.8
67.5°	288.3	312.3	297.8	257.3	206.1	169.8	150.8	138.4	126.4	115.3	112.3
70°	249.1	262.9	247.6	210.3	169.0	142.4	127.1	112.3	105.2	102.6	98.0
72.5°	211.5	216.3	199.8	167.8	137.5	117.9	103.0	94.7	90.9	88.7	85.8
75°	158.8	155.2	140.9	115.9	95.5	82.2	77.6	74.5	72.0	69.9	68.4
77.5°	111.5	106.3	93.5	77.2	66.5	60.1	57.4	55.7	54.5	53.5	52.0
80°	83.7	80.1	67.4	55.1	50.5	47.5	45.9	43.9	43.9	42.9	41.3
82.5°	61.3	57.3	46.1	40.4	37.9	36.0	34.9	33.7	33.3	33.5	32.4
85°	32.2	26.0	23.0	21.9	20.4	19.4	19.9	18.9	18.9	18.9	18.4
87.5°	10.8	9.4	9.7	10.0	11.0	11.5	11.6	12.1	13.0	12.9	13.7
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





TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**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



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1520.5	1525.8	1528.3	1528.3	1531.2	1529.9	1528.7
5°	1607.9	1617.6	1619.7	1628.9	1635.5	1633.4	1634.5
7.5°	1694.8	1710.4	1725.8	1732.9	1734.0	1738.1	1739.6
10°	1748.3	1761.1	1785.1	1781.5	1799.3	1809.6	1792.7
12.5°	1799.8	1817.0	1833.6	1838.2	1848.4	1851.6	1845.0
15°	1846.3	1855.5	1856.5	1854.0	1857.0	1854.5	1844.8
17.5°	1802.8	1787.9	1757.7	1743.4	1732.1	1715.3	1708.6
20°	1730.9	1687.0	1636.0	1615.6	1591.6	1544.6	1555.9
22.5°	1575.8	1525.7	1474.7	1415.1	1386.6	1342.1	1339.4
25°	1334.3	1248.1	1153.1	1086.8	1048.0	1003.6	984.2
27.5°	1037.4	928.8	851.0	811.6	775.8	740.6	739.1
30°	842.2	760.6	700.3	666.7	644.7	629.9	633.0
32.5°	709.9	654.0	613.4	585.4	569.2	558.0	557.8
35°	580.4	542.1	516.1	504.3	492.6	484.4	484.9
37.5°	496.7	473.7	459.2	446.2	438.9	434.9	432.7
40°	453.8	434.9	423.7	416.0	409.9	404.3	403.3
42.5°	419.9	404.3	393.0	387.0	381.3	377.3	376.3
45°	372.6	359.9	349.7	343.0	340.5	336.9	336.9
47.5°	331.5	318.9	311.0	306.8	302.4	300.0	299.9
50°	303.7	294.0	286.9	284.3	280.7	279.2	278.7
52.5°	278.8	271.6	266.5	264.7	263.2	261.2	261.6
55°	245.0	240.9	238.9	237.4	234.8	231.7	233.8
57.5°	216.5	213.1	207.6	202.8	200.4	198.3	199.1
60°	196.5	189.4	182.2	176.6	175.1	170.5	170.5
62.5°	171.2	161.2	152.4	149.3	147.7	145.6	145.2
65°	131.7	127.6	125.6	123.5	122.5	122.5	121.5
67.5°	109.1	107.5	105.3	104.7	103.7	103.4	103.1
70°	96.5	94.4	93.4	92.9	91.9	92.4	90.9
72.5°	84.2	82.6	82.4	81.1	80.4	80.5	79.4
75°	66.4	66.4	65.8	65.3	64.3	63.8	64.3
77.5°	51.0	51.1	50.2	50.1	50.0	50.1	49.6
80°	40.8	41.3	40.8	40.3	39.8	40.3	39.8
82.5°	32.3	31.5	31.4	31.3	31.2	30.9	30.8
85°	18.4	18.9	18.4	17.9	17.9	17.9	18.4
87.5°	13.6	13.9	14.1	14.2	14.4	14.5	14.2
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



TEST NUMBER: P331821

CATALOG NUMBER: S122RDIW-S675D1440U835-4F0-1E-UDD-A

**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)