

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: P331549

Luminaire Tested: **S122DIW-S675D1440U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331549  
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: S122DIW-S675D1440U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8695.3 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

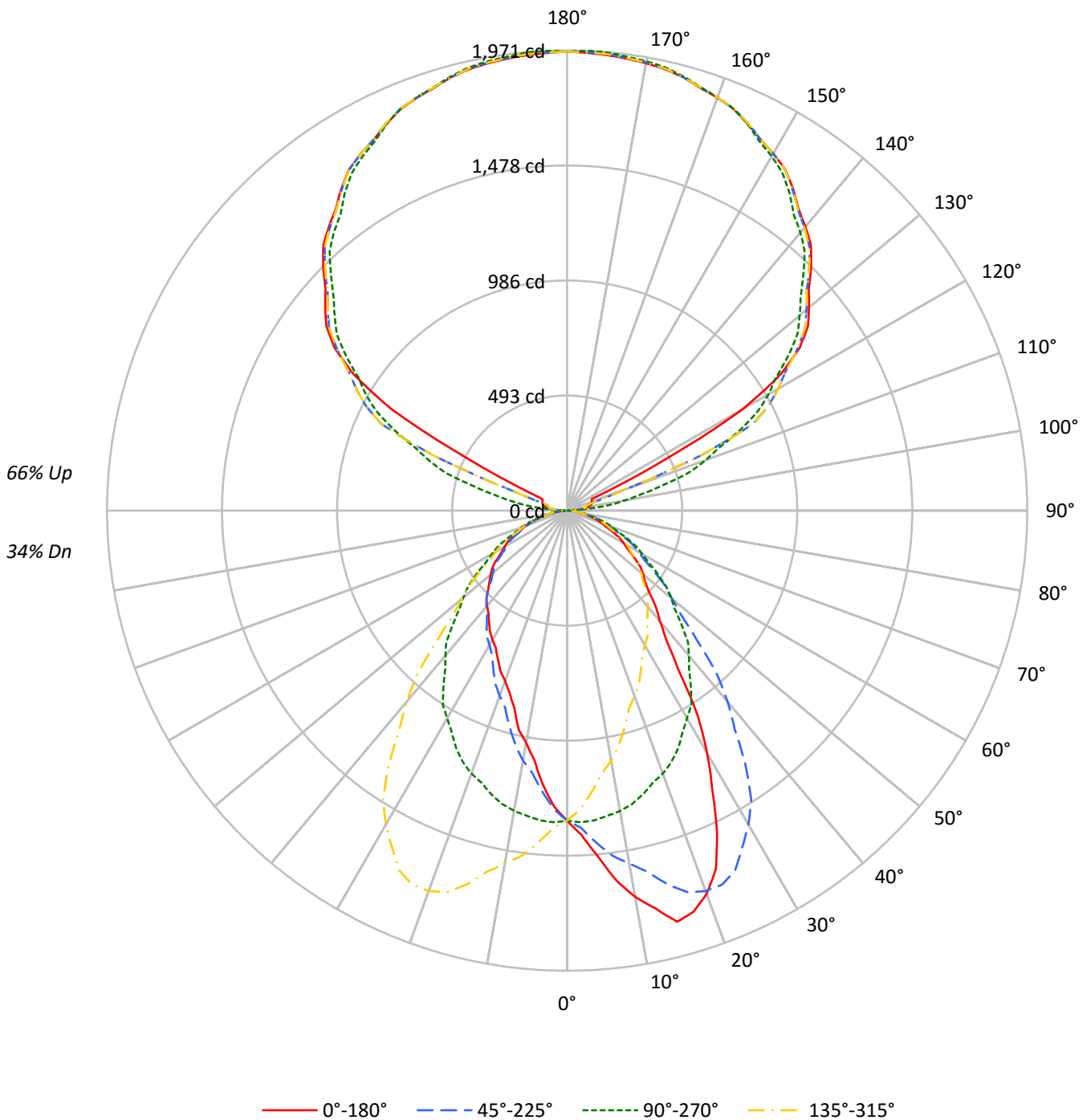
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	34
1	94	90	87	83	85	82	79	76	65	63	61	51	49	48	37	36	35	29
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	31	30	25
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21
4	72	62	54	49	65	56	50	45	46	41	37	36	33	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	38	34	37	32	28	29	26	23	22	20	18	15
7	57	45	37	32	51	41	34	30	33	29	25	27	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	14	12	10

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

	0°	90°	180°	270°
0°	21447	21447	21447	21447
5°	24044	21585	19128	21585
10°	27552	21408	16554	21408
15°	30479	21016	14626	21016
20°	30015	20594	13332	20594
25°	27064	20035	12513	20035
30°	22365	19140	11915	19140
35°	16301	18203	11491	18203
40°	13019	17098	11255	17098
45°	11376	15817	10933	15817
50°	10693	14579	10721	14579
55°	9858	13320	10432	13320
60°	9032	11983	9991	11983
65°	8229	10785	9555	10785
70°	7468	9616	8917	9616
75°	6625	8309	7898	8309
80°	5700	6881	6360	6881
85°	5113	5113	3779	5113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.5	1.5
10°-20°	367.8	4.2
20°-30°	533.7	6.1
30°-40°	563.2	6.5
40°-50°	498.7	5.7
50°-60°	398.0	4.6
60°-70°	270.5	3.1
70°-80°	138.7	1.6
80°-90°	38.3	0.4
90°-100°	65.6	0.8
100°-110°	240.4	2.8
110°-120°	642.7	7.4
120°-130°	1060.9	12.2
130°-140°	1128.3	13.0
140°-150°	1048.7	12.1
150°-160°	843.1	9.7
160°-170°	543.3	6.2
170°-180°	187.0	2.2
0°-30°	1028.0	11.8
0°-40°	1591.2	18.3
0°-60°	2487.8	28.6
0°-90°	2935.3	33.8
90°-120°	948.7	10.9
90°-150°	4186.6	48.1
90°-180°	5760.0	66.2
0°-180°	8695.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1328	1328	1328	1328	1328	
5°	1484	1332	1180	1332	1484	148
15°	1823	1257	875	1257	1823	503
25°	1519	1125	702	1125	1519	687
35°	827	924	583	924	827	538
45°	498	693	479	693	498	392
55°	350	473	371	473	350	314
65°	215	282	250	282	215	214
75°	106	133	127	133	106	113
85°	28	28	20	28	28	31
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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1389.5	1389.9	1390.8	1384.2	1383.4	1383.4	1377.7	1372.8	1367.1	1359.3	1360.1
5°	1483.5	1489.1	1491.1	1485.0	1475.8	1474.8	1466.1	1451.8	1438.5	1427.8	1420.2
7.5°	1595.6	1597.8	1592.8	1584.7	1577.9	1565.7	1549.5	1533.7	1511.5	1491.2	1476.1
10°	1680.5	1683.6	1674.9	1663.2	1653.5	1639.2	1615.7	1591.7	1562.6	1534.5	1512.0
12.5°	1745.0	1752.6	1741.5	1739.9	1723.3	1703.7	1675.7	1663.6	1622.6	1583.5	1559.4
15°	1823.4	1822.9	1824.0	1814.3	1802.0	1798.9	1769.3	1737.2	1679.5	1656.5	1616.7
17.5°	1800.8	1808.5	1812.1	1812.0	1811.7	1809.8	1800.3	1780.0	1751.1	1713.8	1667.8
20°	1746.9	1757.1	1758.6	1770.4	1777.0	1785.7	1789.2	1783.6	1765.8	1734.6	1694.8
22.5°	1663.6	1666.4	1671.2	1689.5	1703.9	1725.6	1737.0	1755.9	1749.0	1733.8	1700.5
25°	1519.2	1514.1	1532.0	1541.1	1574.3	1609.0	1634.1	1661.6	1686.1	1700.9	1691.2
27.5°	1345.8	1338.2	1364.9	1389.3	1416.3	1453.9	1492.9	1538.9	1577.2	1625.1	1641.5
30°	1199.6	1204.2	1229.8	1255.8	1296.6	1349.7	1393.6	1444.2	1498.8	1552.4	1589.6
32.5°	1042.0	1059.7	1075.8	1115.7	1151.6	1210.9	1275.2	1338.4	1406.5	1467.4	1525.1
35°	827.0	847.4	869.9	899.0	949.5	1008.2	1071.0	1156.2	1249.2	1332.4	1400.8
37.5°	696.1	692.8	705.7	726.7	767.7	815.0	887.3	971.6	1080.9	1178.7	1275.2
40°	617.7	615.6	624.8	644.2	675.4	710.1	773.4	847.4	949.0	1068.4	1183.3
42.5°	563.8	565.0	570.1	583.8	605.1	633.7	681.1	744.1	837.1	949.6	1073.0
45°	498.2	501.8	507.4	514.1	526.3	549.8	576.3	621.3	694.8	788.7	910.2
47.5°	451.1	451.2	456.9	462.7	470.0	483.2	504.9	533.0	584.9	661.4	765.8
50°	425.7	422.2	426.3	430.8	438.5	447.7	462.0	488.5	523.2	585.0	672.3
52.5°	394.7	394.8	398.5	400.2	407.1	416.2	429.3	447.7	479.1	527.4	599.2
55°	350.2	352.7	354.8	357.8	364.0	370.6	380.8	393.1	417.6	453.8	506.9
57.5°	308.3	309.1	311.2	317.0	320.9	327.0	336.7	347.8	363.8	390.6	430.5
60°	279.7	279.7	283.8	286.4	291.5	297.6	305.3	316.0	330.3	352.2	384.4
62.5°	253.6	253.2	254.8	259.0	262.9	268.6	276.3	285.4	298.8	318.3	344.8
65°	215.4	214.4	217.5	218.5	222.6	228.2	234.3	244.0	254.7	269.0	292.5
67.5°	178.7	179.9	181.5	183.5	185.7	191.6	195.7	202.6	211.6	223.5	239.4
70°	158.2	158.2	158.2	159.8	162.8	165.9	170.0	175.6	184.3	194.5	208.8
72.5°	135.4	137.0	138.6	137.7	141.6	143.4	148.3	151.5	159.8	166.3	179.0
75°	106.2	106.2	106.2	108.7	110.3	111.8	114.9	117.9	122.0	130.2	136.8
77.5°	79.2	79.0	79.5	80.1	81.8	83.6	84.5	87.3	91.1	94.8	100.5
80°	61.3	62.3	62.8	63.8	63.8	64.8	65.3	68.9	71.5	74.0	77.6
82.5°	47.4	47.6	47.7	47.9	48.3	48.9	50.2	51.4	52.3	54.4	57.2
85°	27.6	27.1	27.1	28.1	27.6	27.6	28.6	29.6	29.6	30.1	31.6
87.5°	18.3	18.2	18.5	17.9	17.8	18.0	17.7	16.9	17.0	17.1	17.0
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1363.0	1359.7	1357.7	1350.3	1343.8	1337.3	1335.2	1336.0	1327.1	1318.5	1314.8
5°	1416.1	1405.9	1396.2	1382.4	1366.1	1348.2	1339.0	1331.8	1314.0	1294.6	1283.4
7.5°	1463.7	1449.1	1430.4	1404.4	1380.7	1352.6	1334.7	1318.9	1292.7	1265.4	1248.6
10°	1492.7	1472.7	1448.7	1417.1	1388.0	1353.8	1329.8	1305.8	1275.2	1242.5	1222.1
12.5°	1517.6	1490.7	1467.1	1426.5	1392.1	1349.3	1320.8	1287.0	1254.8	1216.0	1196.0
15°	1576.9	1527.4	1482.4	1436.5	1394.1	1334.4	1302.8	1257.3	1214.9	1167.0	1144.0
17.5°	1622.7	1567.1	1496.3	1437.9	1388.5	1322.4	1275.9	1221.5	1171.4	1116.5	1085.3
20°	1648.9	1585.0	1509.0	1439.6	1380.3	1304.8	1254.3	1198.6	1139.9	1078.1	1044.4
22.5°	1664.4	1597.3	1522.1	1433.4	1364.0	1290.5	1226.9	1165.9	1106.4	1039.8	1004.4
25°	1669.3	1608.0	1528.4	1428.3	1343.6	1260.4	1183.8	1124.6	1052.6	990.3	938.8
27.5°	1645.0	1601.1	1524.5	1418.7	1320.0	1222.7	1137.4	1070.3	994.3	926.7	874.9
30°	1615.2	1589.6	1515.1	1408.9	1301.2	1196.6	1102.6	1026.6	951.0	882.6	829.5
32.5°	1569.0	1563.5	1498.0	1395.0	1281.2	1163.5	1066.3	989.4	905.7	838.5	787.9
35°	1478.4	1502.9	1461.5	1364.0	1243.5	1116.4	1011.3	923.5	836.7	772.4	724.9
37.5°	1356.9	1417.7	1406.9	1318.6	1192.7	1065.2	949.1	857.3	774.6	709.7	663.1
40°	1273.1	1350.7	1362.0	1283.9	1156.8	1025.6	902.5	811.2	730.5	671.3	624.3
42.5°	1183.3	1274.0	1304.8	1242.2	1117.5	983.9	860.9	766.2	686.4	628.8	587.2
45°	1032.7	1152.7	1208.3	1172.6	1052.1	915.3	788.7	692.7	620.2	566.1	534.0
47.5°	891.9	1023.0	1097.8	1085.2	979.3	843.8	718.7	626.6	556.0	512.8	484.0
50°	792.3	927.0	1017.4	1021.5	927.0	792.8	667.2	580.4	515.6	475.3	451.8
52.5°	705.7	834.3	932.9	954.5	868.6	739.7	621.1	534.7	477.6	440.5	419.5
55°	592.7	701.4	810.6	850.5	781.5	659.0	549.3	473.2	419.6	394.1	375.7
57.5°	492.7	583.4	684.3	728.3	685.8	580.9	478.0	412.0	368.5	346.1	332.0
60°	440.0	511.5	601.3	653.9	617.2	523.8	433.9	371.1	335.4	315.5	302.2
62.5°	391.0	454.3	530.3	578.4	558.4	470.3	389.8	334.4	303.5	284.8	275.3
65°	322.6	372.7	431.4	475.8	462.5	395.6	329.8	282.3	257.8	243.0	235.3
67.5°	265.7	301.8	342.5	381.4	370.7	323.3	270.5	233.5	215.2	202.5	197.9
70°	229.7	257.3	293.5	324.7	316.0	277.2	235.3	203.7	187.9	177.1	172.5
72.5°	195.4	218.1	245.7	271.2	265.3	233.1	198.2	174.3	162.1	152.2	148.4
75°	147.5	164.9	181.7	198.6	197.0	172.0	151.6	133.2	123.5	115.9	114.3
77.5°	108.9	118.6	130.1	140.1	137.3	123.0	107.0	96.5	89.3	84.2	83.4
80°	83.2	88.8	97.0	104.1	100.6	94.4	81.7	74.0	68.9	63.8	61.8
82.5°	60.3	66.0	70.9	74.7	72.0	66.3	58.4	53.2	50.1	46.7	45.8
85°	31.6	34.7	36.8	37.8	36.8	33.2	29.6	27.6	25.0	23.5	23.0
87.5°	16.9	16.4	15.9	16.1	14.2	13.5	11.2	9.3	9.6	9.8	9.7
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1310.7	1308.3	1299.7	1295.2	1287.8	1280.9	1276.4	1278.5	1280.1	1279.3	1278.0
5°	1273.1	1263.4	1248.6	1235.9	1226.7	1209.8	1202.7	1199.1	1196.1	1192.5	1188.9
7.5°	1228.4	1213.1	1191.9	1173.7	1156.5	1135.6	1123.7	1116.5	1109.2	1101.1	1094.0
10°	1196.6	1175.1	1152.7	1127.1	1106.7	1087.8	1071.0	1059.8	1049.6	1039.9	1032.7
12.5°	1163.1	1138.4	1110.6	1075.7	1053.2	1026.2	1023.6	1003.8	987.9	981.9	973.5
15°	1109.8	1075.1	1039.9	998.5	980.6	956.1	940.8	925.5	911.7	902.0	899.5
17.5°	1049.2	1004.3	969.3	939.6	910.3	885.2	871.1	858.8	847.5	834.5	832.8
20°	1003.1	964.3	926.0	900.0	869.9	844.3	827.0	814.7	805.0	797.4	790.7
22.5°	959.4	916.9	881.9	853.4	823.7	803.1	789.4	777.6	769.5	761.0	754.8
25°	889.3	856.1	817.8	785.6	761.1	747.9	736.6	726.4	721.3	715.7	708.6
27.5°	827.9	791.0	755.2	730.3	708.8	697.0	689.0	682.1	677.3	674.0	670.0
30°	784.6	747.3	719.3	694.8	676.9	665.2	660.1	656.0	650.4	648.3	646.3
32.5°	743.0	709.4	685.4	664.1	647.1	639.4	634.7	631.1	626.7	624.6	620.5
35°	684.0	656.0	632.5	620.7	607.0	600.3	596.8	591.6	587.6	585.5	585.0
37.5°	628.6	604.2	588.8	573.7	567.9	563.8	558.9	555.4	554.2	553.9	553.4
40°	592.7	572.8	559.0	546.7	544.2	538.0	534.0	530.9	530.9	531.4	530.9
42.5°	560.0	542.1	530.0	519.4	516.4	512.7	508.6	508.4	509.3	511.0	509.3
45°	510.5	497.7	489.0	483.9	478.3	474.7	474.2	475.8	476.3	476.8	478.3
47.5°	464.9	456.5	448.6	443.0	440.5	439.9	439.3	442.0	444.4	445.3	447.7
50°	438.0	428.3	421.7	418.1	416.0	415.0	416.0	419.1	421.1	423.7	425.2
52.5°	407.8	400.9	396.3	393.6	392.8	393.4	393.6	397.1	400.3	401.2	402.0
55°	366.0	360.9	359.9	355.3	357.3	356.8	359.4	361.4	364.5	367.5	368.1
57.5°	324.4	320.3	317.5	317.9	318.5	320.8	322.9	326.5	329.8	333.0	333.3
60°	296.6	294.5	293.0	293.0	294.0	297.1	299.7	303.2	305.3	307.3	308.8
62.5°	271.3	269.2	267.7	268.5	271.2	273.0	276.0	277.9	279.9	282.0	282.7
65°	231.2	230.2	231.8	232.8	233.3	235.8	239.4	240.9	243.0	244.0	247.6
67.5°	194.4	194.6	194.4	195.8	198.8	199.4	202.8	206.3	206.7	208.7	211.0
70°	169.5	170.5	171.5	172.5	175.1	176.1	178.7	180.2	182.2	183.8	185.3
72.5°	146.6	146.8	147.8	147.6	149.8	152.0	154.2	155.7	157.7	159.7	161.2
75°	112.8	112.8	113.8	114.3	116.9	119.5	118.9	120.0	122.0	124.0	125.1
77.5°	82.4	81.3	82.4	82.9	83.7	85.9	86.3	87.7	90.0	89.3	90.5
80°	62.8	61.3	62.8	63.3	63.3	65.9	65.9	66.9	68.4	66.9	68.4
82.5°	44.8	44.1	45.2	45.3	46.1	46.2	47.1	47.3	48.8	48.1	48.8
85°	22.5	22.0	22.5	22.0	22.5	23.0	23.0	22.5	22.5	23.5	22.0
87.5°	10.0	10.2	10.3	10.8	10.9	11.0	10.9	11.2	11.5	11.0	11.3
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1274.0	1273.1	1273.1	1269.5	1273.1	1273.1	1274.0	1278.0	1279.3	1280.1	1278.5
5°	1181.8	1180.2	1177.7	1180.2	1177.7	1180.2	1181.8	1188.9	1192.5	1196.1	1199.1
7.5°	1090.6	1084.5	1083.6	1077.5	1083.6	1084.5	1090.6	1094.0	1101.1	1109.2	1116.5
10°	1024.0	1019.9	1019.4	1009.7	1019.4	1019.9	1024.0	1032.7	1039.9	1049.6	1059.8
12.5°	973.4	963.6	965.5	959.9	965.5	963.6	973.4	973.5	981.9	987.9	1003.8
15°	885.7	885.7	883.6	875.0	883.6	885.7	885.7	899.5	902.0	911.7	925.5
17.5°	822.7	821.7	816.8	819.2	816.8	821.7	822.7	832.8	834.5	847.5	858.8
20°	785.1	782.1	775.9	775.9	775.9	782.1	785.1	790.7	797.4	805.0	814.7
22.5°	749.6	749.4	742.9	744.9	742.9	749.4	749.6	754.8	761.0	769.5	777.6
25°	708.0	704.0	700.9	702.4	700.9	704.0	708.0	708.6	715.7	721.3	726.4
27.5°	668.6	666.4	666.2	662.0	666.2	666.4	668.6	670.0	674.0	677.3	682.1
30°	645.8	640.7	641.7	639.1	641.7	640.7	645.8	646.3	648.3	650.4	656.0
32.5°	619.6	617.8	616.8	614.6	616.8	617.8	619.6	620.5	624.6	626.7	631.1
35°	584.0	584.5	582.0	583.0	582.0	584.5	584.0	585.0	585.5	587.6	591.6
37.5°	552.9	554.5	553.3	553.6	553.3	554.5	552.9	553.4	553.9	554.2	555.4
40°	532.4	532.4	532.4	534.0	532.4	532.4	532.4	530.9	531.4	530.9	530.9
42.5°	512.8	512.0	511.2	511.1	511.2	512.0	512.8	509.3	511.0	509.3	508.4
45°	479.3	480.9	481.4	478.8	481.4	480.9	479.3	478.3	476.8	476.3	475.8
47.5°	449.0	449.2	449.0	451.3	449.0	449.2	449.0	447.7	445.3	444.4	442.0
50°	427.8	426.8	427.8	426.8	427.8	426.8	427.8	425.2	423.7	421.1	419.1
52.5°	405.3	405.5	404.9	404.7	404.9	405.5	405.3	402.0	401.2	400.3	397.1
55°	370.1	371.1	370.6	370.6	370.6	371.1	370.1	368.1	367.5	364.5	361.4
57.5°	333.7	334.6	335.3	333.0	335.3	334.6	333.7	333.3	333.0	329.8	326.5
60°	308.3	310.9	310.4	309.4	310.4	310.9	308.3	308.8	307.3	305.3	303.2
62.5°	285.1	286.0	285.9	285.7	285.9	286.0	285.1	282.7	282.0	279.9	277.9
65°	249.1	250.1	248.6	250.1	248.6	250.1	249.1	247.6	244.0	243.0	240.9
67.5°	210.4	210.7	211.9	212.6	211.9	210.7	210.4	211.0	208.7	206.7	206.3
70°	186.3	185.8	187.3	188.9	187.3	185.8	186.3	185.3	183.8	182.2	180.2
72.5°	161.0	162.1	161.6	162.7	161.6	162.1	161.0	161.2	159.7	157.7	155.7
75°	124.0	125.6	125.1	126.6	125.1	125.6	124.0	125.1	124.0	122.0	120.0
77.5°	89.6	89.8	89.6	90.5	89.6	89.8	89.6	90.5	89.3	90.0	87.7
80°	68.4	67.4	66.4	68.4	66.4	67.4	68.4	68.4	66.9	68.4	66.9
82.5°	47.6	48.2	47.2	47.2	47.2	48.2	47.6	48.8	48.1	48.8	47.3
85°	22.0	21.4	20.4	20.4	20.4	21.4	22.0	22.0	23.5	22.5	22.5
87.5°	11.4	11.1	11.2	10.9	11.2	11.1	11.4	11.3	11.0	11.5	11.2
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1276.4	1280.9	1287.8	1295.2	1299.7	1308.3	1310.7	1314.8	1318.5	1327.1	1336.0
5°	1202.7	1209.8	1226.7	1235.9	1248.6	1263.4	1273.1	1283.4	1294.6	1314.0	1331.8
7.5°	1123.7	1135.6	1156.5	1173.7	1191.9	1213.1	1228.4	1248.6	1265.4	1292.7	1318.9
10°	1071.0	1087.8	1106.7	1127.1	1152.7	1175.1	1196.6	1222.1	1242.5	1275.2	1305.8
12.5°	1023.6	1026.2	1053.2	1075.7	1110.6	1138.4	1163.1	1196.0	1216.0	1254.8	1287.0
15°	940.8	956.1	980.6	998.5	1039.9	1075.1	1109.8	1144.0	1167.0	1214.9	1257.3
17.5°	871.1	885.2	910.3	939.6	969.3	1004.3	1049.2	1085.3	1116.5	1171.4	1221.5
20°	827.0	844.3	869.9	900.0	926.0	964.3	1003.1	1044.4	1078.1	1139.9	1198.6
22.5°	789.4	803.1	823.7	853.4	881.9	916.9	959.4	1004.4	1039.8	1106.4	1165.9
25°	736.6	747.9	761.1	785.6	817.8	856.1	889.3	938.8	990.3	1052.6	1124.6
27.5°	689.0	697.0	708.8	730.3	755.2	791.0	827.9	874.9	926.7	994.3	1070.3
30°	660.1	665.2	676.9	694.8	719.3	747.3	784.6	829.5	882.6	951.0	1026.6
32.5°	634.7	639.4	647.1	664.1	685.4	709.4	743.0	787.9	838.5	905.7	989.4
35°	596.8	600.3	607.0	620.7	632.5	656.0	684.0	724.9	772.4	836.7	923.5
37.5°	558.9	563.8	567.9	573.7	588.8	604.2	628.6	663.1	709.7	774.6	857.3
40°	534.0	538.0	544.2	546.7	559.0	572.8	592.7	624.3	671.3	730.5	811.2
42.5°	508.6	512.7	516.4	519.4	530.0	542.1	560.0	587.2	628.8	686.4	766.2
45°	474.2	474.7	478.3	483.9	489.0	497.7	510.5	534.0	566.1	620.2	692.7
47.5°	439.3	439.9	440.5	443.0	448.6	456.5	464.9	484.0	512.8	556.0	626.6
50°	416.0	415.0	416.0	418.1	421.7	428.3	438.0	451.8	475.3	515.6	580.4
52.5°	393.6	393.4	392.8	393.6	396.3	400.9	407.8	419.5	440.5	477.6	534.7
55°	359.4	356.8	357.3	355.3	359.9	360.9	366.0	375.7	394.1	419.6	473.2
57.5°	322.9	320.8	318.5	317.9	317.5	320.3	324.4	332.0	346.1	368.5	412.0
60°	299.7	297.1	294.0	293.0	293.0	294.5	296.6	302.2	315.5	335.4	371.1
62.5°	276.0	273.0	271.2	268.5	267.7	269.2	271.3	275.3	284.8	303.5	334.4
65°	239.4	235.8	233.3	232.8	231.8	230.2	231.2	235.3	243.0	257.8	282.3
67.5°	202.8	199.4	198.8	195.8	194.4	194.6	194.4	197.9	202.5	215.2	233.5
70°	178.7	176.1	175.1	172.5	171.5	170.5	169.5	172.5	177.1	187.9	203.7
72.5°	154.2	152.0	149.8	147.6	147.8	146.8	146.6	148.4	152.2	162.1	174.3
75°	118.9	119.5	116.9	114.3	113.8	112.8	112.8	114.3	115.9	123.5	133.2
77.5°	86.3	85.9	83.7	82.9	82.4	81.3	82.4	83.4	84.2	89.3	96.5
80°	65.9	65.9	63.3	63.3	62.8	61.3	62.8	61.8	63.8	68.9	74.0
82.5°	47.1	46.2	46.1	45.3	45.2	44.1	44.8	45.8	46.7	50.1	53.2
85°	23.0	23.0	22.5	22.0	22.5	22.0	22.5	23.0	23.5	25.0	27.6
87.5°	10.9	11.0	10.9	10.8	10.3	10.2	10.0	9.7	9.8	9.6	9.3
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1335.2	1337.3	1343.8	1350.3	1357.7	1359.7	1363.0	1360.1	1359.3	1367.1	1372.8
5°	1339.0	1348.2	1366.1	1382.4	1396.2	1405.9	1416.1	1420.2	1427.8	1438.5	1451.8
7.5°	1334.7	1352.6	1380.7	1404.4	1430.4	1449.1	1463.7	1476.1	1491.2	1511.5	1533.7
10°	1329.8	1353.8	1388.0	1417.1	1448.7	1472.7	1492.7	1512.0	1534.5	1562.6	1591.7
12.5°	1320.8	1349.3	1392.1	1426.5	1467.1	1490.7	1517.6	1559.4	1583.5	1622.6	1663.6
15°	1302.8	1334.4	1394.1	1436.5	1482.4	1527.4	1576.9	1616.7	1656.5	1679.5	1737.2
17.5°	1275.9	1322.4	1388.5	1437.9	1496.3	1567.1	1622.7	1667.8	1713.8	1751.1	1780.0
20°	1254.3	1304.8	1380.3	1439.6	1509.0	1585.0	1648.9	1694.8	1734.6	1765.8	1783.6
22.5°	1226.9	1290.5	1364.0	1433.4	1522.1	1597.3	1664.4	1700.5	1733.8	1749.0	1755.9
25°	1183.8	1260.4	1343.6	1428.3	1528.4	1608.0	1669.3	1691.2	1700.9	1686.1	1661.6
27.5°	1137.4	1222.7	1320.0	1418.7	1524.5	1601.1	1645.0	1641.5	1625.1	1577.2	1538.9
30°	1102.6	1196.6	1301.2	1408.9	1515.1	1589.6	1615.2	1589.6	1552.4	1498.8	1444.2
32.5°	1066.3	1163.5	1281.2	1395.0	1498.0	1563.5	1569.0	1525.1	1467.4	1406.5	1338.4
35°	1011.3	1116.4	1243.5	1364.0	1461.5	1502.9	1478.4	1400.8	1332.4	1249.2	1156.2
37.5°	949.1	1065.2	1192.7	1318.6	1406.9	1417.7	1356.9	1275.2	1178.7	1080.9	971.6
40°	902.5	1025.6	1156.8	1283.9	1362.0	1350.7	1273.1	1183.3	1068.4	949.0	847.4
42.5°	860.9	983.9	1117.5	1242.2	1304.8	1274.0	1183.3	1073.0	949.6	837.1	744.1
45°	788.7	915.3	1052.1	1172.6	1208.3	1152.7	1032.7	910.2	788.7	694.8	621.3
47.5°	718.7	843.8	979.3	1085.2	1097.8	1023.0	891.9	765.8	661.4	584.9	533.0
50°	667.2	792.8	927.0	1021.5	1017.4	927.0	792.3	672.3	585.0	523.2	488.5
52.5°	621.1	739.7	868.6	954.5	932.9	834.3	705.7	599.2	527.4	479.1	447.7
55°	549.3	659.0	781.5	850.5	810.6	701.4	592.7	506.9	453.8	417.6	393.1
57.5°	478.0	580.9	685.8	728.3	684.3	583.4	492.7	430.5	390.6	363.8	347.8
60°	433.9	523.8	617.2	653.9	601.3	511.5	440.0	384.4	352.2	330.3	316.0
62.5°	389.8	470.3	558.4	578.4	530.3	454.3	391.0	344.8	318.3	298.8	285.4
65°	329.8	395.6	462.5	475.8	431.4	372.7	322.6	292.5	269.0	254.7	244.0
67.5°	270.5	323.3	370.7	381.4	342.5	301.8	265.7	239.4	223.5	211.6	202.6
70°	235.3	277.2	316.0	324.7	293.5	257.3	229.7	208.8	194.5	184.3	175.6
72.5°	198.2	233.1	265.3	271.2	245.7	218.1	195.4	179.0	166.3	159.8	151.5
75°	151.6	172.0	197.0	198.6	181.7	164.9	147.5	136.8	130.2	122.0	117.9
77.5°	107.0	123.0	137.3	140.1	130.1	118.6	108.9	100.5	94.8	91.1	87.3
80°	81.7	94.4	100.6	104.1	97.0	88.8	83.2	77.6	74.0	71.5	68.9
82.5°	58.4	66.3	72.0	74.7	70.9	66.0	60.3	57.2	54.4	52.3	51.4
85°	29.6	33.2	36.8	37.8	36.8	34.7	31.6	31.6	30.1	29.6	29.6
87.5°	11.2	13.5	14.2	16.1	15.9	16.4	16.9	17.0	17.1	17.0	16.9
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: P331549

CATALOG NUMBER: S122DIW-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: P331549

CATALOG NUMBER: S122DIW-S675D1440U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1377.7	1383.4	1383.4	1384.2	1390.8	1389.9	1389.5
5°	1466.1	1474.8	1475.8	1485.0	1491.1	1489.1	1483.5
7.5°	1549.5	1565.7	1577.9	1584.7	1592.8	1597.8	1595.6
10°	1615.7	1639.2	1653.5	1663.2	1674.9	1683.6	1680.5
12.5°	1675.7	1703.7	1723.3	1739.9	1741.5	1752.6	1745.0
15°	1769.3	1798.9	1802.0	1814.3	1824.0	1822.9	1823.4
17.5°	1800.3	1809.8	1811.7	1812.0	1812.1	1808.5	1800.8
20°	1789.2	1785.7	1777.0	1770.4	1758.6	1757.1	1746.9
22.5°	1737.0	1725.6	1703.9	1689.5	1671.2	1666.4	1663.6
25°	1634.1	1609.0	1574.3	1541.1	1532.0	1514.1	1519.2
27.5°	1492.9	1453.9	1416.3	1389.3	1364.9	1338.2	1345.8
30°	1393.6	1349.7	1296.6	1255.8	1229.8	1204.2	1199.6
32.5°	1275.2	1210.9	1151.6	1115.7	1075.8	1059.7	1042.0
35°	1071.0	1008.2	949.5	899.0	869.9	847.4	827.0
37.5°	887.3	815.0	767.7	726.7	705.7	692.8	696.1
40°	773.4	710.1	675.4	644.2	624.8	615.6	617.7
42.5°	681.1	633.7	605.1	583.8	570.1	565.0	563.8
45°	576.3	549.8	526.3	514.1	507.4	501.8	498.2
47.5°	504.9	483.2	470.0	462.7	456.9	451.2	451.1
50°	462.0	447.7	438.5	430.8	426.3	422.2	425.7
52.5°	429.3	416.2	407.1	400.2	398.5	394.8	394.7
55°	380.8	370.6	364.0	357.8	354.8	352.7	350.2
57.5°	336.7	327.0	320.9	317.0	311.2	309.1	308.3
60°	305.3	297.6	291.5	286.4	283.8	279.7	279.7
62.5°	276.3	268.6	262.9	259.0	254.8	253.2	253.6
65°	234.3	228.2	222.6	218.5	217.5	214.4	215.4
67.5°	195.7	191.6	185.7	183.5	181.5	179.9	178.7
70°	170.0	165.9	162.8	159.8	158.2	158.2	158.2
72.5°	148.3	143.4	141.6	137.7	138.6	137.0	135.4
75°	114.9	111.8	110.3	108.7	106.2	106.2	106.2
77.5°	84.5	83.6	81.8	80.1	79.5	79.0	79.2
80°	65.3	64.8	63.8	63.8	62.8	62.3	61.3
82.5°	50.2	48.9	48.3	47.9	47.7	47.6	47.4
85°	28.6	27.6	27.6	28.1	27.1	27.1	27.6
87.5°	17.7	18.0	17.8	17.9	18.5	18.2	18.3
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: P331549

CATALOG NUMBER: S122DIW-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)