

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: P331603-927

Luminaire Tested: **S122DIW-S1005D1240U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331603-927
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-S1005D1240U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7413.0 lumens
Efficiency: N/A
Efficacy: 97.3 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: General Diffuse

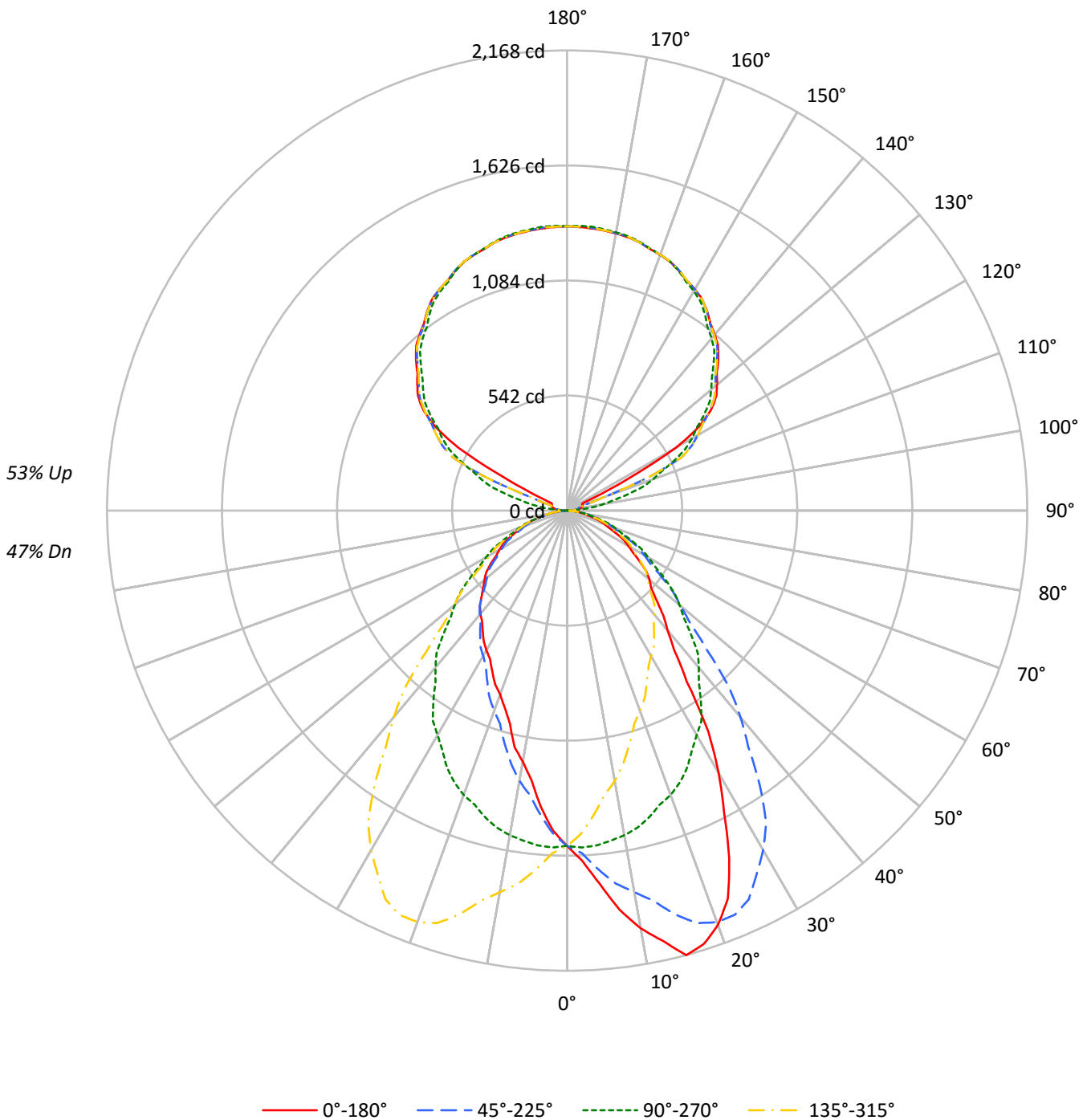
Input Watts (W): 76.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41				41
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35				35
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30				30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26				26
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	28	26	23				23
6	64	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	23	20				20
7	59	47	39	34	54	44	37	32	37	32	28	32	28	25	26	23	21	18				18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16				16
9	51	39	32	27	47	37	30	25	32	26	23	27	23	20	22	19	17	15				15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14				14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25504	25504	25504	25504
5°	28593	25671	22749	25671
10°	32765	25460	19687	25460
15°	36247	24993	17392	24993
20°	35696	24493	15856	24493
25°	32186	23826	14883	23826
30°	26597	22760	14171	22760
35°	19385	21646	13665	21646
40°	15483	20331	13384	20331
45°	13531	18810	13001	18810
50°	12717	17337	12750	17337
55°	11724	15842	12408	15842
60°	10743	14250	11880	14250
65°	9788	12825	11366	12825
70°	8884	11434	10607	11434
75°	7879	9881	9395	9881
80°	6778	8182	7569	8182
85°	6076	6076	4502	6076



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.0
10°-20°	437.4	5.9
20°-30°	634.7	8.6
30°-40°	669.8	9.0
40°-50°	593.0	8.0
50°-60°	473.3	6.4
60°-70°	321.7	4.3
70°-80°	164.9	2.2
80°-90°	43.1	0.6
90°-100°	44.7	0.6
100°-110°	163.8	2.2
110°-120°	437.9	5.9
120°-130°	722.9	9.8
130°-140°	768.8	10.4
140°-150°	714.5	9.6
150°-160°	574.5	7.7
160°-170°	370.2	5.0
170°-180°	127.4	1.7
0°-30°	1222.5	16.5
0°-40°	1892.3	25.5
0°-60°	2958.6	39.9
0°-90°	3488.3	47.1
90°-120°	646.4	8.7
90°-150°	2852.5	38.5
90°-180°	3925.0	52.9
0°-180°	7413.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1764	1584	1404	1584	1764	176
15°	2168	1495	1040	1495	2168	598
25°	1807	1337	835	1337	1807	817
35°	984	1098	693	1098	984	640
45°	593	824	569	824	593	466
55°	416	563	441	563	416	373
65°	256	336	298	336	256	255
75°	126	158	151	158	126	135
85°	33	33	24	33	33	37
90°	26	1	26	1	26	13
95°	42	63	42	63	42	39
105°	74	295	74	295	74	77
115°	80	557	80	557	80	199
125°	828	788	828	788	828	717
135°	1007	975	1007	975	1007	776
145°	1148	1131	1148	1131	1148	718
155°	1246	1245	1246	1245	1246	575
165°	1309	1312	1309	1312	1309	370
175°	1334	1342	1334	1342	1334	127
180°	1339	1339	1339	1339	1339	



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1652.5	1653.0	1653.9	1646.2	1645.2	1645.2	1638.4	1632.6	1625.8	1616.5	1617.6
5°	1764.2	1770.8	1773.3	1766.0	1755.1	1753.9	1743.6	1726.6	1710.8	1698.0	1688.9
7.5°	1897.5	1900.2	1894.3	1884.7	1876.5	1861.9	1842.8	1823.9	1797.6	1773.5	1755.5
10°	1998.5	2002.2	1991.9	1977.9	1966.4	1949.4	1921.4	1892.9	1858.3	1825.0	1798.2
12.5°	2075.3	2084.2	2071.0	2069.2	2049.5	2026.1	1992.8	1978.4	1929.7	1883.2	1854.6
15°	2168.5	2167.9	2169.2	2157.6	2143.0	2139.4	2104.2	2065.9	1997.3	1970.0	1922.6
17.5°	2141.6	2150.8	2155.1	2154.9	2154.6	2152.3	2141.0	2116.8	2082.4	2038.1	1983.5
20°	2077.5	2089.6	2091.4	2105.4	2113.3	2123.6	2127.9	2121.1	2099.9	2062.9	2015.5
22.5°	1978.4	1981.8	1987.5	2009.2	2026.3	2052.2	2065.7	2088.1	2080.0	2061.9	2022.4
25°	1806.7	1800.6	1821.9	1832.8	1872.2	1913.5	1943.3	1976.1	2005.3	2022.8	2011.3
27.5°	1600.5	1591.4	1623.3	1652.3	1684.3	1729.0	1775.4	1830.1	1875.7	1932.6	1952.2
30°	1426.6	1432.1	1462.4	1493.4	1542.0	1605.1	1657.3	1717.5	1782.4	1846.2	1890.5
32.5°	1239.2	1260.2	1279.4	1326.8	1369.6	1440.0	1516.5	1591.7	1672.7	1745.2	1813.8
35°	983.5	1007.7	1034.5	1069.1	1129.2	1199.0	1273.7	1375.1	1485.6	1584.5	1665.9
37.5°	827.8	823.9	839.2	864.3	912.9	969.3	1055.3	1155.4	1285.5	1401.8	1516.5
40°	734.6	732.1	743.1	766.1	803.2	844.5	919.7	1007.7	1128.5	1270.7	1407.2
42.5°	670.5	671.9	678.0	694.3	719.6	753.6	810.0	884.9	995.5	1129.3	1276.1
45°	592.6	596.8	603.5	611.3	625.9	653.9	685.4	738.9	826.2	937.9	1082.4
47.5°	536.4	536.5	543.4	550.2	558.9	574.6	600.4	633.9	695.6	786.6	910.8
50°	506.3	502.1	506.9	512.4	521.5	532.4	549.4	581.0	622.3	695.7	799.5
52.5°	469.4	469.5	473.9	475.9	484.1	495.0	510.6	532.4	569.8	627.2	712.6
55°	416.5	419.5	421.9	425.6	432.8	440.8	452.9	467.5	496.6	539.7	602.9
57.5°	366.7	367.7	370.1	377.0	381.6	388.9	400.4	413.7	432.6	464.5	512.0
60°	332.7	332.7	337.5	340.6	346.7	353.9	363.1	375.8	392.8	418.9	457.2
62.5°	301.6	301.1	303.1	308.0	312.7	319.5	328.5	339.4	355.4	378.6	410.0
65°	256.2	255.0	258.6	259.8	264.7	271.4	278.7	290.2	302.9	320.0	347.8
67.5°	212.5	214.0	215.9	218.2	220.9	227.9	232.7	240.9	251.7	265.8	284.7
70°	188.2	188.2	188.2	190.0	193.7	197.3	202.2	208.8	219.2	231.3	248.3
72.5°	161.0	163.0	164.9	163.8	168.4	170.6	176.4	180.2	190.0	197.8	212.9
75°	126.3	126.3	126.3	129.3	131.1	132.9	136.6	140.2	145.1	154.8	162.7
77.5°	94.2	94.0	94.6	95.3	97.3	99.4	100.5	103.8	108.3	112.8	119.5
80°	72.9	74.1	74.7	75.9	75.9	77.1	77.7	82.0	85.0	88.0	92.3
82.5°	56.3	56.6	56.7	57.0	57.4	58.1	59.7	61.1	62.2	64.7	68.0
85°	32.8	32.2	32.2	33.4	32.8	32.8	34.0	35.2	35.2	35.8	37.6
87.5°	17.8	17.7	18.1	17.6	17.5	17.8	17.7	17.0	17.2	17.5	17.6
90°	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5	20.4	19.4	17.7
92.5°	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6	23.1	22.5	21.6
95°	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9	38.9	37.8	36.3
97.5°	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3	51.4	50.6	47.1
100°	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7	57.0	55.2	51.6
102.5°	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2	59.0	56.8	87.4
105°	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8	61.5	59.1	117.9
107.5°	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0	80.3	82.8	153.3
110°	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5	148.1	169.6	231.8



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6	349.2	427.7	443.1
115°	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5	498.2	597.9	592.6
117.5°	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0	638.1	662.3	658.5
120°	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5	712.9	710.3	706.5
122.5°	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1	757.6	756.1	751.9
125°	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9	820.4	818.9	814.8
127.5°	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8	877.7	875.4	872.4
130°	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6	914.3	911.9	909.5
132.5°	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4	950.3	948.3	945.9
135°	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4	1001.2	999.1	997.1
137.5°	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8	1048.7	1046.6	1044.3
140°	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5	1079.5	1077.6	1075.2
142.5°	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8	1108.0	1106.3	1103.5
145°	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4	1147.9	1146.4	1142.7
147.5°	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9	1182.8	1181.6	1178.1
150°	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1	1203.9	1202.6	1199.1
152.5°	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6	1223.3	1221.9	1218.7
155°	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7	1249.4	1248.2	1245.5
157.5°	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8	1271.3	1269.9	1268.0
160°	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6	1284.3	1283.0	1281.8
162.5°	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6	1296.1	1294.7	1293.6
165°	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2	1308.5
167.5°	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4	1322.9	1321.4	1320.8
170°	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6	1329.1	1327.6	1327.1
172.5°	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2	1333.7	1332.2	1331.8
175°	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3	1338.8	1337.3	1336.9
177.5°	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8	1339.7	1338.5	1338.2
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1621.0	1617.1	1614.6	1605.9	1598.1	1590.3	1587.9	1588.9	1578.2	1568.0	1563.6
5°	1684.1	1671.9	1660.4	1644.0	1624.6	1603.3	1592.4	1583.9	1562.7	1539.6	1526.2
7.5°	1740.7	1723.3	1701.1	1670.2	1642.0	1608.5	1587.3	1568.4	1537.4	1504.8	1484.9
10°	1775.1	1751.4	1722.9	1685.3	1650.7	1610.0	1581.4	1552.9	1516.5	1477.7	1453.3
12.5°	1804.7	1772.8	1744.8	1696.5	1655.5	1604.6	1570.8	1530.6	1492.2	1446.0	1422.3
15°	1875.3	1816.4	1763.0	1708.3	1658.0	1586.9	1549.3	1495.2	1444.9	1387.8	1360.5
17.5°	1929.8	1863.6	1779.5	1710.1	1651.3	1572.6	1517.3	1452.6	1393.1	1327.9	1290.7
20°	1960.9	1885.0	1794.5	1712.0	1641.6	1551.7	1491.6	1425.5	1355.7	1282.1	1242.1
22.5°	1979.3	1899.6	1810.1	1704.7	1622.2	1534.7	1459.0	1386.6	1315.8	1236.5	1194.5
25°	1985.2	1912.3	1817.7	1698.7	1597.8	1498.9	1407.9	1337.4	1251.8	1177.7	1116.4
27.5°	1956.3	1904.1	1813.0	1687.2	1569.8	1454.1	1352.6	1272.8	1182.5	1102.1	1040.5
30°	1920.8	1890.5	1801.8	1675.5	1547.4	1423.0	1311.3	1220.8	1131.0	1049.6	986.5
32.5°	1866.0	1859.4	1781.5	1659.1	1523.7	1383.7	1268.1	1176.6	1077.1	997.2	937.0
35°	1758.2	1787.2	1738.1	1622.2	1478.8	1327.7	1202.6	1098.2	995.1	918.5	862.1
37.5°	1613.7	1686.0	1673.2	1568.1	1418.4	1266.8	1128.7	1019.5	921.2	844.0	788.6
40°	1514.1	1606.4	1619.7	1526.9	1375.7	1219.6	1073.3	964.6	868.7	798.4	742.4
42.5°	1407.2	1515.0	1551.7	1477.3	1329.0	1170.1	1023.8	911.2	816.3	747.8	698.3
45°	1228.1	1370.8	1437.0	1394.5	1251.3	1088.5	937.9	823.8	737.6	673.3	635.0
47.5°	1060.7	1216.6	1305.6	1290.5	1164.7	1003.5	854.7	745.1	661.2	609.9	575.7
50°	942.2	1102.5	1209.9	1214.8	1102.5	942.8	793.4	690.2	613.1	565.2	537.3
52.5°	839.2	992.2	1109.4	1135.1	1033.0	879.6	738.6	635.9	568.0	523.9	498.9
55°	704.8	834.2	964.1	1011.4	929.5	783.8	653.2	562.8	499.0	468.7	446.8
57.5°	586.0	693.8	813.7	866.1	815.6	690.9	568.5	489.9	438.2	411.6	394.8
60°	523.3	608.3	715.2	777.7	734.0	622.9	516.0	441.3	398.9	375.2	359.4
62.5°	465.0	540.3	630.7	687.9	664.0	559.3	463.6	397.7	361.0	338.7	327.3
65°	383.7	443.1	513.0	565.8	550.0	470.5	392.2	335.7	306.6	289.0	279.9
67.5°	315.9	358.9	407.3	453.6	440.8	384.5	321.6	277.7	256.0	240.7	235.3
70°	273.2	305.9	349.1	386.1	375.8	329.6	279.9	242.2	223.4	210.6	205.2
72.5°	232.4	259.4	292.2	322.5	315.5	277.2	235.7	207.2	192.8	181.0	176.6
75°	175.5	196.1	216.1	236.1	234.3	204.6	180.3	158.4	146.9	137.8	136.0
77.5°	129.5	141.1	154.7	166.6	163.3	146.3	127.2	114.7	106.2	100.1	99.2
80°	98.9	105.6	115.3	123.8	119.6	112.3	97.1	88.0	82.0	75.9	73.4
82.5°	71.8	78.4	84.3	88.9	85.6	78.8	69.5	63.3	59.7	55.5	54.5
85°	37.6	41.3	43.7	44.9	43.7	39.5	35.2	32.8	29.8	28.0	27.3
87.5°	17.7	17.4	17.0	17.7	15.7	15.2	12.8	10.9	10.9	10.9	10.4
90°	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0	3.3	5.7	8.1
92.5°	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6	19.3	19.2	18.9
95°	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0	55.8	48.8	41.7
97.5°	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0	105.0	84.9	65.0
100°	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5	142.0	112.5	83.0
102.5°	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7	216.4	210.2	204.0
105°	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6	301.0	307.5	313.9
107.5°	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6	381.8	387.0	392.2
110°	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3	433.8	438.3	442.8



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9	482.9	486.9	490.9
115°	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2	560.9	564.5	568.2
117.5°	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2	631.3	635.3	639.4
120°	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3	681.6	684.8	688.0
122.5°	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8	725.2	728.6	732.0
125°	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8	790.6	793.4	796.2
127.5°	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7	850.8	853.9	857.1
130°	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7	889.1	892.6	896.0
132.5°	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5	927.4	930.3	933.3
135°	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9	978.3	981.8	985.2
137.5°	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8	1028.3	1030.6	1033.1
140°	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1	1060.9	1062.6	1064.3
142.5°	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1	1088.6	1090.2	1091.7
145°	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8	1130.7	1130.4	1130.2
147.5°	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0	1168.2	1167.4	1166.6
150°	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9	1192.4	1190.9	1189.3
152.5°	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8	1213.1	1211.4	1209.7
155°	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2	1243.3	1241.3	1239.4
157.5°	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1	1267.4	1265.7	1264.2
160°	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1281.8	1280.4	1279.1
162.5°	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5	1294.1	1292.8	1291.6
165°	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1	1310.8	1309.5	1308.2
167.5°	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5	1323.2	1321.9	1320.6
170°	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5	1330.2	1328.9	1327.6
172.5°	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1	1334.8	1333.6	1332.2
175°	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1	1340.6	1339.1	1337.6
177.5°	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1	1341.9	1340.7	1339.5
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1558.8	1555.8	1545.6	1540.3	1531.6	1523.3	1518.0	1520.4	1522.3	1521.4	1519.9
5°	1514.1	1502.5	1484.9	1469.7	1458.8	1438.8	1430.3	1426.1	1422.4	1418.2	1413.9
7.5°	1460.9	1442.7	1417.5	1395.8	1375.4	1350.5	1336.3	1327.9	1319.1	1309.5	1301.0
10°	1423.0	1397.5	1370.8	1340.5	1316.2	1293.7	1273.7	1260.3	1248.2	1236.7	1228.1
12.5°	1383.2	1353.8	1320.8	1279.3	1252.5	1220.4	1217.3	1193.8	1174.8	1167.7	1157.7
15°	1319.8	1278.5	1236.7	1187.5	1166.3	1137.1	1118.9	1100.7	1084.3	1072.7	1069.7
17.5°	1247.8	1194.4	1152.7	1117.4	1082.6	1052.7	1035.9	1021.4	1007.9	992.4	990.4
20°	1192.9	1146.8	1101.3	1070.3	1034.5	1004.1	983.5	968.9	957.4	948.2	940.4
22.5°	1141.0	1090.4	1048.8	1014.9	979.6	955.1	938.8	924.7	915.1	905.1	897.6
25°	1057.6	1018.1	972.6	934.3	905.1	889.4	876.0	863.9	857.9	851.1	842.6
27.5°	984.6	940.7	898.1	868.5	842.9	828.9	819.4	811.2	805.5	801.6	796.8
30°	933.1	888.7	855.4	826.2	805.0	791.1	785.0	780.1	773.4	771.0	768.6
32.5°	883.5	843.6	815.1	789.8	769.5	760.4	754.9	750.5	745.3	742.8	738.0
35°	813.5	780.1	752.2	738.2	721.8	713.9	709.7	703.6	698.8	696.3	695.7
37.5°	747.6	718.6	700.2	682.2	675.3	670.5	664.6	660.5	659.1	658.7	658.1
40°	704.8	681.1	664.8	650.2	647.1	639.8	635.0	631.4	631.4	632.0	631.4
42.5°	666.0	644.8	630.3	617.7	614.1	609.7	604.9	604.7	605.6	607.7	605.6
45°	607.1	591.9	581.6	575.5	568.9	564.6	564.0	565.8	566.4	567.0	568.9
47.5°	552.9	542.9	533.5	526.8	523.9	523.2	522.4	525.6	528.5	529.7	532.4
50°	520.9	509.4	501.5	497.2	494.8	493.5	494.8	498.4	500.8	503.9	505.7
52.5°	485.0	476.8	471.3	468.1	467.1	467.9	468.1	472.2	476.1	477.2	478.0
55°	435.3	429.2	428.0	422.6	424.9	424.4	427.4	429.8	433.5	437.1	437.7
57.5°	385.7	380.9	377.6	378.1	378.8	381.5	384.0	388.3	392.2	396.1	396.4
60°	352.8	350.3	348.5	348.5	349.7	353.3	356.3	360.6	363.1	365.4	367.3
62.5°	322.6	320.2	318.4	319.3	322.5	324.6	328.2	330.5	333.0	335.3	336.2
65°	275.0	273.8	275.6	276.9	277.4	280.5	284.7	286.5	289.0	290.2	294.5
67.5°	231.2	231.4	231.2	232.9	236.4	237.1	241.1	245.4	245.9	248.2	251.0
70°	201.5	202.8	204.0	205.2	208.3	209.5	212.5	214.3	216.7	218.6	220.4
72.5°	174.4	174.6	175.8	175.5	178.1	180.8	183.3	185.1	187.6	189.9	191.7
75°	134.2	134.2	135.4	136.0	139.0	142.0	141.5	142.7	145.1	147.5	148.8
77.5°	98.0	96.6	98.0	98.6	99.6	102.1	102.6	104.3	107.1	106.2	107.6
80°	74.7	72.9	74.7	75.3	75.3	78.3	78.3	79.5	81.4	79.5	81.4
82.5°	53.3	52.4	53.8	53.9	54.9	55.0	56.0	56.2	58.1	57.2	58.1
85°	26.7	26.1	26.7	26.1	26.7	27.3	27.3	26.7	26.7	28.0	26.1
87.5°	10.4	10.3	10.1	10.5	10.3	10.2	9.9	10.1	10.4	9.6	9.7
90°	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5	22.6	23.7	24.5
92.5°	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6	24.2	24.7	25.1
95°	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9	41.0	42.1	42.5
97.5°	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3	53.2	54.0	54.6
100°	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7	60.4	62.1	63.2
102.5°	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2	63.5	65.8	67.2
105°	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8	66.2	68.6	70.2
107.5°	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0	75.5	73.1	72.3
110°	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5	105.0	83.4	73.1



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6	192.1	113.5	74.5
115°	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5	298.8	199.1	141.5
117.5°	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0	589.9	565.8	528.2
120°	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5	718.0	720.6	707.4
122.5°	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1	760.7	762.2	760.2
125°	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9	823.4	824.9	825.9
127.5°	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8	882.0	884.2	885.4
130°	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6	919.0	921.3	922.4
132.5°	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4	954.3	956.4	957.3
135°	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4	1005.5	1007.7	1008.5
137.5°	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8	1052.9	1055.0	1055.7
140°	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5	1083.4	1085.4	1085.8
142.5°	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8	1111.6	1113.3	1113.6
145°	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4	1150.9	1152.4	1152.6
147.5°	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9	1185.0	1186.1	1186.2
150°	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1	1206.5	1207.8	1207.8
152.5°	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6	1225.8	1227.2	1227.1
155°	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7	1252.0	1253.3	1253.1
157.5°	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8	1274.2	1275.7	1275.6
160°	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6	1286.9	1288.2	1288.1
162.5°	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6	1299.0	1300.5	1300.3
165°	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2
167.5°	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4	1325.9	1327.4	1327.2
170°	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6	1332.1	1333.6	1333.4
172.5°	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2	1336.7	1338.2	1338.1
175°	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3	1341.8	1343.3	1343.0
177.5°	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8	1342.0	1343.3	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1515.0	1514.1	1514.1	1509.7	1514.1	1514.1	1515.0	1519.9	1521.4	1522.3	1520.4
5°	1405.4	1403.6	1400.6	1403.6	1400.6	1403.6	1405.4	1413.9	1418.2	1422.4	1426.1
7.5°	1297.0	1289.7	1288.6	1281.4	1288.6	1289.7	1297.0	1301.0	1309.5	1319.1	1327.9
10°	1217.8	1213.0	1212.4	1200.8	1212.4	1213.0	1217.8	1228.1	1236.7	1248.2	1260.3
12.5°	1157.6	1146.0	1148.3	1141.5	1148.3	1146.0	1157.6	1157.7	1167.7	1174.8	1193.8
15°	1053.3	1053.3	1050.9	1040.5	1050.9	1053.3	1053.3	1069.7	1072.7	1084.3	1100.7
17.5°	978.4	977.2	971.4	974.2	971.4	977.2	978.4	990.4	992.4	1007.9	1021.4
20°	933.7	930.1	922.8	922.8	922.8	930.1	933.7	940.4	948.2	957.4	968.9
22.5°	891.4	891.2	883.4	885.9	883.4	891.2	891.4	897.6	905.1	915.1	924.7
25°	842.0	837.2	833.5	835.4	833.5	837.2	842.0	842.6	851.1	857.9	863.9
27.5°	795.2	792.5	792.3	787.3	792.3	792.5	795.2	796.8	801.6	805.5	811.2
30°	767.9	761.9	763.1	760.1	763.1	761.9	767.9	768.6	771.0	773.4	780.1
32.5°	736.9	734.7	733.5	730.9	733.5	734.7	736.9	738.0	742.8	745.3	750.5
35°	694.5	695.1	692.1	693.3	692.1	695.1	694.5	695.7	696.3	698.8	703.6
37.5°	657.5	659.4	658.0	658.3	658.0	659.4	657.5	658.1	658.7	659.1	660.5
40°	633.2	633.2	633.2	635.0	633.2	633.2	633.2	631.4	632.0	631.4	631.4
42.5°	609.9	609.0	607.9	607.8	607.9	609.0	609.9	605.6	607.7	605.6	604.7
45°	570.1	571.9	572.5	569.4	572.5	571.9	570.1	568.9	567.0	566.4	565.8
47.5°	534.0	534.2	534.0	536.7	534.0	534.2	534.0	532.4	529.7	528.5	525.6
50°	508.7	507.6	508.7	507.6	508.7	507.6	508.7	505.7	503.9	500.8	498.4
52.5°	482.0	482.3	481.6	481.3	481.6	482.3	482.0	478.0	477.2	476.1	472.2
55°	440.1	441.3	440.8	440.8	440.8	441.3	440.1	437.7	437.1	433.5	429.8
57.5°	396.8	397.9	398.7	396.1	398.7	397.9	396.8	396.4	396.1	392.2	388.3
60°	366.7	369.7	369.1	367.9	369.1	369.7	366.7	367.3	365.4	363.1	360.6
62.5°	339.0	340.1	340.0	339.8	340.0	340.1	339.0	336.2	335.3	333.0	330.5
65°	296.3	297.5	295.6	297.5	295.6	297.5	296.3	294.5	290.2	289.0	286.5
67.5°	250.3	250.6	251.9	252.8	251.9	250.6	250.3	251.0	248.2	245.9	245.4
70°	221.6	221.0	222.8	224.7	222.8	221.0	221.6	220.4	218.6	216.7	214.3
72.5°	191.5	192.8	192.2	193.5	192.2	192.8	191.5	191.7	189.9	187.6	185.1
75°	147.5	149.3	148.8	150.6	148.8	149.3	147.5	148.8	147.5	145.1	142.7
77.5°	106.6	106.9	106.6	107.6	106.6	106.9	106.6	107.6	106.2	107.1	104.3
80°	81.4	80.2	78.9	81.4	78.9	80.2	81.4	81.4	79.5	81.4	79.5
82.5°	56.6	57.3	56.1	56.1	56.1	57.3	56.6	58.1	57.2	58.1	56.2
85°	26.1	25.5	24.3	24.3	24.3	25.5	26.1	26.1	28.0	26.7	26.7
87.5°	9.8	9.4	9.5	9.1	9.5	9.4	9.8	9.7	9.6	10.4	10.1
90°	24.9	25.3	25.7	26.1	25.7	25.3	24.9	24.5	23.7	22.6	21.5
92.5°	25.3	25.7	25.9	26.1	25.9	25.7	25.3	25.1	24.7	24.2	23.6
95°	42.3	42.1	41.9	41.7	41.9	42.1	42.3	42.5	42.1	41.0	39.9
97.5°	54.8	55.1	55.4	55.6	55.4	55.1	54.8	54.6	54.0	53.2	52.3
100°	63.6	64.1	64.5	65.0	64.5	64.1	63.6	63.2	62.1	60.4	58.7
102.5°	67.7	68.4	69.0	69.6	69.0	68.4	67.7	67.2	65.8	63.5	61.2
105°	71.1	71.9	72.8	73.7	72.8	71.9	71.1	70.2	68.6	66.2	63.8
107.5°	73.2	74.1	74.9	75.8	74.9	74.1	73.2	72.3	73.1	75.5	78.0
110°	74.0	74.9	75.7	76.5	75.7	74.9	74.0	73.1	83.4	105.0	126.5



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	75.3	76.0	76.6	77.3	76.6	76.0	75.3	74.5	113.5	192.1	270.6
115°	126.0	110.5	95.0	79.5	95.0	110.5	126.0	141.5	199.1	298.8	398.5
117.5°	477.3	426.4	375.4	324.4	375.4	426.4	477.3	528.2	565.8	589.9	614.0
120°	678.3	649.3	620.2	591.1	620.2	649.3	678.3	707.4	720.6	718.0	715.5
122.5°	754.6	748.9	743.3	737.6	743.3	748.9	754.6	760.2	762.2	760.7	759.1
125°	826.6	827.3	827.9	828.5	827.9	827.3	826.6	825.9	824.9	823.4	821.9
127.5°	885.5	885.7	885.7	885.9	885.7	885.7	885.5	885.4	884.2	882.0	879.8
130°	922.2	922.0	921.8	921.5	921.8	922.0	922.2	922.4	921.3	919.0	916.6
132.5°	957.1	956.9	956.6	956.5	956.6	956.9	957.1	957.3	956.4	954.3	952.4
135°	1008.1	1007.7	1007.3	1006.9	1007.3	1007.7	1008.1	1008.5	1007.7	1005.5	1003.4
137.5°	1054.9	1054.2	1053.5	1052.7	1053.5	1054.2	1054.9	1055.7	1055.0	1052.9	1050.8
140°	1084.7	1083.6	1082.5	1081.5	1082.5	1083.6	1084.7	1085.8	1085.4	1083.4	1081.5
142.5°	1112.6	1111.5	1110.4	1109.4	1110.4	1111.5	1112.6	1113.6	1113.3	1111.6	1109.8
145°	1151.5	1150.5	1149.4	1148.3	1149.4	1150.5	1151.5	1152.6	1152.4	1150.9	1149.4
147.5°	1185.3	1184.4	1183.5	1182.6	1183.5	1184.4	1185.3	1186.2	1186.1	1185.0	1183.9
150°	1206.8	1205.7	1204.6	1203.6	1204.6	1205.7	1206.8	1207.8	1207.8	1206.5	1205.1
152.5°	1225.7	1224.2	1222.8	1221.4	1222.8	1224.2	1225.7	1227.1	1227.2	1225.8	1224.6
155°	1251.3	1249.7	1247.9	1246.2	1247.9	1249.7	1251.3	1253.1	1253.3	1252.0	1250.7
157.5°	1273.9	1272.2	1270.6	1268.8	1270.6	1272.2	1273.9	1275.6	1275.7	1274.2	1272.8
160°	1286.6	1285.1	1283.6	1282.1	1283.6	1285.1	1286.6	1288.1	1288.2	1286.9	1285.6
162.5°	1298.5	1296.6	1294.7	1292.9	1294.7	1296.6	1298.5	1300.3	1300.5	1299.0	1297.6
165°	1313.7	1312.2	1310.7	1309.2	1310.7	1312.2	1313.7	1315.2	1315.2	1313.7	1312.2
167.5°	1325.2	1323.3	1321.4	1319.5	1321.4	1323.3	1325.2	1327.2	1327.4	1325.9	1324.4
170°	1331.5	1329.5	1327.6	1325.6	1327.6	1329.5	1331.5	1333.4	1333.6	1332.1	1330.6
172.5°	1336.1	1334.2	1332.2	1330.3	1332.2	1334.2	1336.1	1338.1	1338.2	1336.7	1335.2
175°	1340.8	1338.7	1336.5	1334.4	1336.5	1338.7	1340.8	1343.0	1343.3	1341.8	1340.3
177.5°	1341.6	1340.0	1338.5	1336.9	1338.5	1340.0	1341.6	1343.1	1343.3	1342.0	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1518.0	1523.3	1531.6	1540.3	1545.6	1555.8	1558.8	1563.6	1568.0	1578.2	1588.9
5°	1430.3	1438.8	1458.8	1469.7	1484.9	1502.5	1514.1	1526.2	1539.6	1562.7	1583.9
7.5°	1336.3	1350.5	1375.4	1395.8	1417.5	1442.7	1460.9	1484.9	1504.8	1537.4	1568.4
10°	1273.7	1293.7	1316.2	1340.5	1370.8	1397.5	1423.0	1453.3	1477.7	1516.5	1552.9
12.5°	1217.3	1220.4	1252.5	1279.3	1320.8	1353.8	1383.2	1422.3	1446.0	1492.2	1530.6
15°	1118.9	1137.1	1166.3	1187.5	1236.7	1278.5	1319.8	1360.5	1387.8	1444.9	1495.2
17.5°	1035.9	1052.7	1082.6	1117.4	1152.7	1194.4	1247.8	1290.7	1327.9	1393.1	1452.6
20°	983.5	1004.1	1034.5	1070.3	1101.3	1146.8	1192.9	1242.1	1282.1	1355.7	1425.5
22.5°	938.8	955.1	979.6	1014.9	1048.8	1090.4	1141.0	1194.5	1236.5	1315.8	1386.6
25°	876.0	889.4	905.1	934.3	972.6	1018.1	1057.6	1116.4	1177.7	1251.8	1337.4
27.5°	819.4	828.9	842.9	868.5	898.1	940.7	984.6	1040.5	1102.1	1182.5	1272.8
30°	785.0	791.1	805.0	826.2	855.4	888.7	933.1	986.5	1049.6	1131.0	1220.8
32.5°	754.9	760.4	769.5	789.8	815.1	843.6	883.5	937.0	997.2	1077.1	1176.6
35°	709.7	713.9	721.8	738.2	752.2	780.1	813.5	862.1	918.5	995.1	1098.2
37.5°	664.6	670.5	675.3	682.2	700.2	718.6	747.6	788.6	844.0	921.2	1019.5
40°	635.0	639.8	647.1	650.2	664.8	681.1	704.8	742.4	798.4	868.7	964.6
42.5°	604.9	609.7	614.1	617.7	630.3	644.8	666.0	698.3	747.8	816.3	911.2
45°	564.0	564.6	568.9	575.5	581.6	591.9	607.1	635.0	673.3	737.6	823.8
47.5°	522.4	523.2	523.9	526.8	533.5	542.9	552.9	575.7	609.9	661.2	745.1
50°	494.8	493.5	494.8	497.2	501.5	509.4	520.9	537.3	565.2	613.1	690.2
52.5°	468.1	467.9	467.1	468.1	471.3	476.8	485.0	498.9	523.9	568.0	635.9
55°	427.4	424.4	424.9	422.6	428.0	429.2	435.3	446.8	468.7	499.0	562.8
57.5°	384.0	381.5	378.8	378.1	377.6	380.9	385.7	394.8	411.6	438.2	489.9
60°	356.3	353.3	349.7	348.5	348.5	350.3	352.8	359.4	375.2	398.9	441.3
62.5°	328.2	324.6	322.5	319.3	318.4	320.2	322.6	327.3	338.7	361.0	397.7
65°	284.7	280.5	277.4	276.9	275.6	273.8	275.0	279.9	289.0	306.6	335.7
67.5°	241.1	237.1	236.4	232.9	231.2	231.4	231.2	235.3	240.7	256.0	277.7
70°	212.5	209.5	208.3	205.2	204.0	202.8	201.5	205.2	210.6	223.4	242.2
72.5°	183.3	180.8	178.1	175.5	175.8	174.6	174.4	176.6	181.0	192.8	207.2
75°	141.5	142.0	139.0	136.0	135.4	134.2	134.2	136.0	137.8	146.9	158.4
77.5°	102.6	102.1	99.6	98.6	98.0	96.6	98.0	99.2	100.1	106.2	114.7
80°	78.3	78.3	75.3	75.3	74.7	72.9	74.7	73.4	75.9	82.0	88.0
82.5°	56.0	55.0	54.9	53.9	53.8	52.4	53.3	54.5	55.5	59.7	63.3
85°	27.3	27.3	26.7	26.1	26.7	26.1	26.7	27.3	28.0	29.8	32.8
87.5°	9.9	10.2	10.3	10.5	10.1	10.3	10.4	10.4	10.9	10.9	10.9
90°	20.4	19.4	17.7	15.9	14.2	12.5	10.5	8.1	5.7	3.3	1.0
92.5°	23.1	22.5	21.6	20.8	19.9	19.0	18.7	18.9	19.2	19.3	19.6
95°	38.9	37.8	36.3	34.8	33.3	31.8	34.5	41.7	48.8	55.8	63.0
97.5°	51.4	50.6	47.1	43.6	40.1	36.6	44.9	65.0	84.9	105.0	125.0
100°	57.0	55.2	51.6	47.9	44.3	40.6	53.6	83.0	112.5	142.0	171.5
102.5°	59.0	56.8	87.4	118.0	148.6	179.3	197.7	204.0	210.2	216.4	222.7
105°	61.5	59.1	117.9	176.7	235.5	294.3	320.4	313.9	307.5	301.0	294.6
107.5°	80.3	82.8	153.3	223.8	294.3	364.8	397.4	392.2	387.0	381.8	376.6
110°	148.1	169.6	231.8	294.1	356.3	418.5	447.3	442.8	438.3	433.8	429.3



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	349.2	427.7	443.1	458.5	473.9	489.3	495.0	490.9	486.9	482.9	478.9
115°	498.2	597.9	592.6	587.2	581.8	576.4	571.9	568.2	564.5	560.9	557.2
117.5°	638.1	662.3	658.5	654.8	651.1	647.5	643.6	639.4	635.3	631.3	627.2
120°	712.9	710.3	706.5	702.6	698.7	694.8	691.3	688.0	684.8	681.6	678.3
122.5°	757.6	756.1	751.9	747.6	743.4	739.2	735.4	732.0	728.6	725.2	721.8
125°	820.4	818.9	814.8	810.6	806.6	802.5	799.0	796.2	793.4	790.6	787.8
127.5°	877.7	875.4	872.4	869.3	866.3	863.2	860.2	857.1	853.9	850.8	847.7
130°	914.3	911.9	909.5	907.1	904.8	902.4	899.5	896.0	892.6	889.1	885.7
132.5°	950.3	948.3	945.9	943.6	941.2	938.8	936.2	933.3	930.3	927.4	924.5
135°	1001.2	999.1	997.1	995.2	993.2	991.3	988.6	985.2	981.8	978.3	974.9
137.5°	1048.7	1046.6	1044.3	1042.2	1040.0	1037.8	1035.5	1033.1	1030.6	1028.3	1025.8
140°	1079.5	1077.6	1075.2	1072.9	1070.5	1068.1	1066.0	1064.3	1062.6	1060.9	1059.1
142.5°	1108.0	1106.3	1103.5	1100.8	1098.1	1095.4	1093.3	1091.7	1090.2	1088.6	1087.1
145°	1147.9	1146.4	1142.7	1139.1	1135.4	1131.7	1130.0	1130.2	1130.4	1130.7	1130.8
147.5°	1182.8	1181.6	1178.1	1174.4	1170.8	1167.2	1165.8	1166.6	1167.4	1168.2	1169.0
150°	1203.9	1202.6	1199.1	1195.7	1192.2	1188.8	1187.8	1189.3	1190.9	1192.4	1193.9
152.5°	1223.3	1221.9	1218.7	1215.4	1212.1	1208.9	1208.1	1209.7	1211.4	1213.1	1214.8
155°	1249.4	1248.2	1245.5	1242.9	1240.4	1237.8	1237.5	1239.4	1241.3	1243.3	1245.2
157.5°	1271.3	1269.9	1268.0	1266.2	1264.4	1262.6	1262.5	1264.2	1265.7	1267.4	1269.1
160°	1284.3	1283.0	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0
162.5°	1296.1	1294.7	1293.6	1292.4	1291.3	1290.1	1290.2	1291.6	1292.8	1294.1	1295.5
165°	1310.7	1309.2	1308.5	1307.9	1307.3	1306.6	1306.9	1308.2	1309.5	1310.8	1312.1
167.5°	1322.9	1321.4	1320.8	1320.2	1319.6	1319.0	1319.3	1320.6	1321.9	1323.2	1324.5
170°	1329.1	1327.6	1327.1	1326.7	1326.3	1325.9	1326.3	1327.6	1328.9	1330.2	1331.5
172.5°	1333.7	1332.2	1331.8	1331.3	1330.9	1330.5	1330.9	1332.2	1333.6	1334.8	1336.1
175°	1338.8	1337.3	1336.9	1336.4	1336.0	1335.5	1336.1	1337.6	1339.1	1340.6	1342.1
177.5°	1339.7	1338.5	1338.2	1338.1	1337.9	1337.8	1338.2	1339.5	1340.7	1341.9	1343.1
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.9	1590.3	1598.1	1605.9	1614.6	1617.1	1621.0	1617.6	1616.5	1625.8	1632.6
5°	1592.4	1603.3	1624.6	1644.0	1660.4	1671.9	1684.1	1688.9	1698.0	1710.8	1726.6
7.5°	1587.3	1608.5	1642.0	1670.2	1701.1	1723.3	1740.7	1755.5	1773.5	1797.6	1823.9
10°	1581.4	1610.0	1650.7	1685.3	1722.9	1751.4	1775.1	1798.2	1825.0	1858.3	1892.9
12.5°	1570.8	1604.6	1655.5	1696.5	1744.8	1772.8	1804.7	1854.6	1883.2	1929.7	1978.4
15°	1549.3	1586.9	1658.0	1708.3	1763.0	1816.4	1875.3	1922.6	1970.0	1997.3	2065.9
17.5°	1517.3	1572.6	1651.3	1710.1	1779.5	1863.6	1929.8	1983.5	2038.1	2082.4	2116.8
20°	1491.6	1551.7	1641.6	1712.0	1794.5	1885.0	1960.9	2015.5	2062.9	2099.9	2121.1
22.5°	1459.0	1534.7	1622.2	1704.7	1810.1	1899.6	1979.3	2022.4	2061.9	2080.0	2088.1
25°	1407.9	1498.9	1597.8	1698.7	1817.7	1912.3	1985.2	2011.3	2022.8	2005.3	1976.1
27.5°	1352.6	1454.1	1569.8	1687.2	1813.0	1904.1	1956.3	1952.2	1932.6	1875.7	1830.1
30°	1311.3	1423.0	1547.4	1675.5	1801.8	1890.5	1920.8	1890.5	1846.2	1782.4	1717.5
32.5°	1268.1	1383.7	1523.7	1659.1	1781.5	1859.4	1866.0	1813.8	1745.2	1672.7	1591.7
35°	1202.6	1327.7	1478.8	1622.2	1738.1	1787.2	1758.2	1665.9	1584.5	1485.6	1375.1
37.5°	1128.7	1266.8	1418.4	1568.1	1673.2	1686.0	1613.7	1516.5	1401.8	1285.5	1155.4
40°	1073.3	1219.6	1375.7	1526.9	1619.7	1606.4	1514.1	1407.2	1270.7	1128.5	1007.7
42.5°	1023.8	1170.1	1329.0	1477.3	1551.7	1515.0	1407.2	1276.1	1129.3	995.5	884.9
45°	937.9	1088.5	1251.3	1394.5	1437.0	1370.8	1228.1	1082.4	937.9	826.2	738.9
47.5°	854.7	1003.5	1164.7	1290.5	1305.6	1216.6	1060.7	910.8	786.6	695.6	633.9
50°	793.4	942.8	1102.5	1214.8	1209.9	1102.5	942.2	799.5	695.7	622.3	581.0
52.5°	738.6	879.6	1033.0	1135.1	1109.4	992.2	839.2	712.6	627.2	569.8	532.4
55°	653.2	783.8	929.5	1011.4	964.1	834.2	704.8	602.9	539.7	496.6	467.5
57.5°	568.5	690.9	815.6	866.1	813.7	693.8	586.0	512.0	464.5	432.6	413.7
60°	516.0	622.9	734.0	777.7	715.2	608.3	523.3	457.2	418.9	392.8	375.8
62.5°	463.6	559.3	664.0	687.9	630.7	540.3	465.0	410.0	378.6	355.4	339.4
65°	392.2	470.5	550.0	565.8	513.0	443.1	383.7	347.8	320.0	302.9	290.2
67.5°	321.6	384.5	440.8	453.6	407.3	358.9	315.9	284.7	265.8	251.7	240.9
70°	279.9	329.6	375.8	386.1	349.1	305.9	273.2	248.3	231.3	219.2	208.8
72.5°	235.7	277.2	315.5	322.5	292.2	259.4	232.4	212.9	197.8	190.0	180.2
75°	180.3	204.6	234.3	236.1	216.1	196.1	175.5	162.7	154.8	145.1	140.2
77.5°	127.2	146.3	163.3	166.6	154.7	141.1	129.5	119.5	112.8	108.3	103.8
80°	97.1	112.3	119.6	123.8	115.3	105.6	98.9	92.3	88.0	85.0	82.0
82.5°	69.5	78.8	85.6	88.9	84.3	78.4	71.8	68.0	64.7	62.2	61.1
85°	35.2	39.5	43.7	44.9	43.7	41.3	37.6	37.6	35.8	35.2	35.2
87.5°	12.8	15.2	15.7	17.7	17.0	17.4	17.7	17.6	17.5	17.2	17.0
90°	3.3	5.7	8.1	10.5	12.5	14.2	15.9	17.7	19.4	20.4	21.5
92.5°	19.3	19.2	18.9	18.7	19.0	19.9	20.8	21.6	22.5	23.1	23.6
95°	55.8	48.8	41.7	34.5	31.8	33.3	34.8	36.3	37.8	38.9	39.9
97.5°	105.0	84.9	65.0	44.9	36.6	40.1	43.6	47.1	50.6	51.4	52.3
100°	142.0	112.5	83.0	53.6	40.6	44.3	47.9	51.6	55.2	57.0	58.7
102.5°	216.4	210.2	204.0	197.7	179.3	148.6	118.0	87.4	56.8	59.0	61.2
105°	301.0	307.5	313.9	320.4	294.3	235.5	176.7	117.9	59.1	61.5	63.8
107.5°	381.8	387.0	392.2	397.4	364.8	294.3	223.8	153.3	82.8	80.3	78.0
110°	433.8	438.3	442.8	447.3	418.5	356.3	294.1	231.8	169.6	148.1	126.5



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	482.9	486.9	490.9	495.0	489.3	473.9	458.5	443.1	427.7	349.2	270.6
115°	560.9	564.5	568.2	571.9	576.4	581.8	587.2	592.6	597.9	498.2	398.5
117.5°	631.3	635.3	639.4	643.6	647.5	651.1	654.8	658.5	662.3	638.1	614.0
120°	681.6	684.8	688.0	691.3	694.8	698.7	702.6	706.5	710.3	712.9	715.5
122.5°	725.2	728.6	732.0	735.4	739.2	743.4	747.6	751.9	756.1	757.6	759.1
125°	790.6	793.4	796.2	799.0	802.5	806.6	810.6	814.8	818.9	820.4	821.9
127.5°	850.8	853.9	857.1	860.2	863.2	866.3	869.3	872.4	875.4	877.7	879.8
130°	889.1	892.6	896.0	899.5	902.4	904.8	907.1	909.5	911.9	914.3	916.6
132.5°	927.4	930.3	933.3	936.2	938.8	941.2	943.6	945.9	948.3	950.3	952.4
135°	978.3	981.8	985.2	988.6	991.3	993.2	995.2	997.1	999.1	1001.2	1003.4
137.5°	1028.3	1030.6	1033.1	1035.5	1037.8	1040.0	1042.2	1044.3	1046.6	1048.7	1050.8
140°	1060.9	1062.6	1064.3	1066.0	1068.1	1070.5	1072.9	1075.2	1077.6	1079.5	1081.5
142.5°	1088.6	1090.2	1091.7	1093.3	1095.4	1098.1	1100.8	1103.5	1106.3	1108.0	1109.8
145°	1130.7	1130.4	1130.2	1130.0	1131.7	1135.4	1139.1	1142.7	1146.4	1147.9	1149.4
147.5°	1168.2	1167.4	1166.6	1165.8	1167.2	1170.8	1174.4	1178.1	1181.6	1182.8	1183.9
150°	1192.4	1190.9	1189.3	1187.8	1188.8	1192.2	1195.7	1199.1	1202.6	1203.9	1205.1
152.5°	1213.1	1211.4	1209.7	1208.1	1208.9	1212.1	1215.4	1218.7	1221.9	1223.3	1224.6
155°	1243.3	1241.3	1239.4	1237.5	1237.8	1240.4	1242.9	1245.5	1248.2	1249.4	1250.7
157.5°	1267.4	1265.7	1264.2	1262.5	1262.6	1264.4	1266.2	1268.0	1269.9	1271.3	1272.8
160°	1281.8	1280.4	1279.1	1277.9	1277.9	1279.1	1280.4	1281.8	1283.0	1284.3	1285.6
162.5°	1294.1	1292.8	1291.6	1290.2	1290.1	1291.3	1292.4	1293.6	1294.7	1296.1	1297.6
165°	1310.8	1309.5	1308.2	1306.9	1306.6	1307.3	1307.9	1308.5	1309.2	1310.7	1312.2
167.5°	1323.2	1321.9	1320.6	1319.3	1319.0	1319.6	1320.2	1320.8	1321.4	1322.9	1324.4
170°	1330.2	1328.9	1327.6	1326.3	1325.9	1326.3	1326.7	1327.1	1327.6	1329.1	1330.6
172.5°	1334.8	1333.6	1332.2	1330.9	1330.5	1330.9	1331.3	1331.8	1332.2	1333.7	1335.2
175°	1340.6	1339.1	1337.6	1336.1	1335.5	1336.0	1336.4	1336.9	1337.3	1338.8	1340.3
177.5°	1341.9	1340.7	1339.5	1338.2	1337.8	1337.9	1338.1	1338.2	1338.5	1339.7	1340.8
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1638.4	1645.2	1645.2	1646.2	1653.9	1653.0	1652.5
5°	1743.6	1753.9	1755.1	1766.0	1773.3	1770.8	1764.2
7.5°	1842.8	1861.9	1876.5	1884.7	1894.3	1900.2	1897.5
10°	1921.4	1949.4	1966.4	1977.9	1991.9	2002.2	1998.5
12.5°	1992.8	2026.1	2049.5	2069.2	2071.0	2084.2	2075.3
15°	2104.2	2139.4	2143.0	2157.6	2169.2	2167.9	2168.5
17.5°	2141.0	2152.3	2154.6	2154.9	2155.1	2150.8	2141.6
20°	2127.9	2123.6	2113.3	2105.4	2091.4	2089.6	2077.5
22.5°	2065.7	2052.2	2026.3	2009.2	1987.5	1981.8	1978.4
25°	1943.3	1913.5	1872.2	1832.8	1821.9	1800.6	1806.7
27.5°	1775.4	1729.0	1684.3	1652.3	1623.3	1591.4	1600.5
30°	1657.3	1605.1	1542.0	1493.4	1462.4	1432.1	1426.6
32.5°	1516.5	1440.0	1369.6	1326.8	1279.4	1260.2	1239.2
35°	1273.7	1199.0	1129.2	1069.1	1034.5	1007.7	983.5
37.5°	1055.3	969.3	912.9	864.3	839.2	823.9	827.8
40°	919.7	844.5	803.2	766.1	743.1	732.1	734.6
42.5°	810.0	753.6	719.6	694.3	678.0	671.9	670.5
45°	685.4	653.9	625.9	611.3	603.5	596.8	592.6
47.5°	600.4	574.6	558.9	550.2	543.4	536.5	536.4
50°	549.4	532.4	521.5	512.4	506.9	502.1	506.3
52.5°	510.6	495.0	484.1	475.9	473.9	469.5	469.4
55°	452.9	440.8	432.8	425.6	421.9	419.5	416.5
57.5°	400.4	388.9	381.6	377.0	370.1	367.7	366.7
60°	363.1	353.9	346.7	340.6	337.5	332.7	332.7
62.5°	328.5	319.5	312.7	308.0	303.1	301.1	301.6
65°	278.7	271.4	264.7	259.8	258.6	255.0	256.2
67.5°	232.7	227.9	220.9	218.2	215.9	214.0	212.5
70°	202.2	197.3	193.7	190.0	188.2	188.2	188.2
72.5°	176.4	170.6	168.4	163.8	164.9	163.0	161.0
75°	136.6	132.9	131.1	129.3	126.3	126.3	126.3
77.5°	100.5	99.4	97.3	95.3	94.6	94.0	94.2
80°	77.7	77.1	75.9	75.9	74.7	74.1	72.9
82.5°	59.7	58.1	57.4	57.0	56.7	56.6	56.3
85°	34.0	32.8	32.8	33.4	32.2	32.2	32.8
87.5°	17.7	17.8	17.5	17.6	18.1	17.7	17.8
90°	22.6	23.7	24.5	24.9	25.3	25.7	26.1
92.5°	24.2	24.7	25.1	25.3	25.7	25.9	26.1
95°	41.0	42.1	42.5	42.3	42.1	41.9	41.7
97.5°	53.2	54.0	54.6	54.8	55.1	55.4	55.6
100°	60.4	62.1	63.2	63.6	64.1	64.5	65.0
102.5°	63.5	65.8	67.2	67.7	68.4	69.0	69.6
105°	66.2	68.6	70.2	71.1	71.9	72.8	73.7
107.5°	75.5	73.1	72.3	73.2	74.1	74.9	75.8
110°	105.0	83.4	73.1	74.0	74.9	75.7	76.5



TEST NUMBER: P331603-927

CATALOG NUMBER: S122DIW-S1005D1240U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	192.1	113.5	74.5	75.3	76.0	76.6	77.3
115°	298.8	199.1	141.5	126.0	110.5	95.0	79.5
117.5°	589.9	565.8	528.2	477.3	426.4	375.4	324.4
120°	718.0	720.6	707.4	678.3	649.3	620.2	591.1
122.5°	760.7	762.2	760.2	754.6	748.9	743.3	737.6
125°	823.4	824.9	825.9	826.6	827.3	827.9	828.5
127.5°	882.0	884.2	885.4	885.5	885.7	885.7	885.9
130°	919.0	921.3	922.4	922.2	922.0	921.8	921.5
132.5°	954.3	956.4	957.3	957.1	956.9	956.6	956.5
135°	1005.5	1007.7	1008.5	1008.1	1007.7	1007.3	1006.9
137.5°	1052.9	1055.0	1055.7	1054.9	1054.2	1053.5	1052.7
140°	1083.4	1085.4	1085.8	1084.7	1083.6	1082.5	1081.5
142.5°	1111.6	1113.3	1113.6	1112.6	1111.5	1110.4	1109.4
145°	1150.9	1152.4	1152.6	1151.5	1150.5	1149.4	1148.3
147.5°	1185.0	1186.1	1186.2	1185.3	1184.4	1183.5	1182.6
150°	1206.5	1207.8	1207.8	1206.8	1205.7	1204.6	1203.6
152.5°	1225.8	1227.2	1227.1	1225.7	1224.2	1222.8	1221.4
155°	1252.0	1253.3	1253.1	1251.3	1249.7	1247.9	1246.2
157.5°	1274.2	1275.7	1275.6	1273.9	1272.2	1270.6	1268.8
160°	1286.9	1288.2	1288.1	1286.6	1285.1	1283.6	1282.1
162.5°	1299.0	1300.5	1300.3	1298.5	1296.6	1294.7	1292.9
165°	1313.7	1315.2	1315.2	1313.7	1312.2	1310.7	1309.2
167.5°	1325.9	1327.4	1327.2	1325.2	1323.3	1321.4	1319.5
170°	1332.1	1333.6	1333.4	1331.5	1329.5	1327.6	1325.6
172.5°	1336.7	1338.2	1338.1	1336.1	1334.2	1332.2	1330.3
175°	1341.8	1343.3	1343.0	1340.8	1338.7	1336.5	1334.4
177.5°	1342.0	1343.3	1343.1	1341.6	1340.0	1338.5	1336.9
180°	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2	1339.2

(END OF REPORT)