

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: P332168

Luminaire Tested: **S123DIW-S775D1320U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332168
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S775D1320U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8544.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

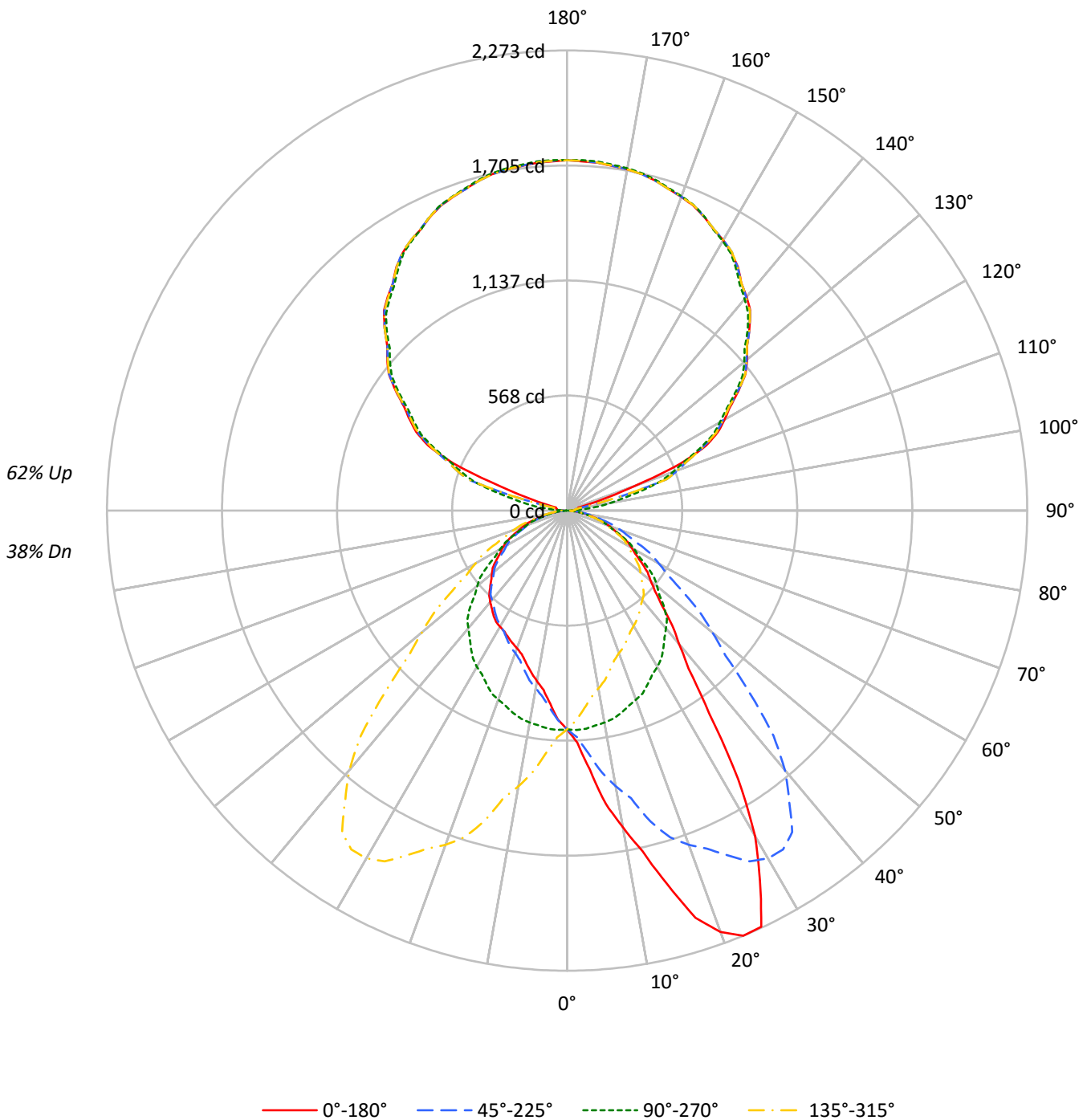
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11630	11630	11630	11630
5°	13870	11681	10351	11681
10°	17361	11622	9349	11622
15°	21293	11528	8704	11528
20°	25366	11381	8287	11381
25°	26935	11204	8195	11204
30°	23086	11074	8238	11074
35°	16056	10889	8324	10889
40°	12094	10673	8297	10673
45°	10041	10353	8193	10353
50°	8994	9696	8118	9696
55°	8409	8989	8017	8989
60°	7890	8249	7935	8249
65°	7414	7521	7679	7521
70°	6952	6688	7314	6688
75°	6226	5856	6704	5856
80°	5455	4804	5777	4804
85°	4273	3495	3878	3495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.2
10°-20°	341.3	4.0
20°-30°	572.8	6.7
30°-40°	648.6	7.6
40°-50°	581.7	6.8
50°-60°	469.4	5.5
60°-70°	327.1	3.8
70°-80°	171.9	2.0
80°-90°	46.9	0.5
90°-100°	62.9	0.7
100°-110°	299.9	3.5
110°-120°	720.3	8.4
120°-130°	917.3	10.7
130°-140°	980.1	11.5
140°-150°	916.5	10.7
150°-160°	739.3	8.7
160°-170°	477.1	5.6
170°-180°	164.4	1.9
0°-30°	1020.6	11.9
0°-40°	1669.2	19.5
0°-60°	2720.2	31.8
0°-90°	3266.1	38.2
90°-120°	1083.2	12.7
90°-150°	3897.1	45.6
90°-180°	5278.0	61.8
0°-180°	8544.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1284	1081	958	1081	1284	133
15°	1911	1034	781	1034	1911	552
25°	2268	943	690	943	2268	995
35°	1222	829	634	829	1222	794
45°	660	680	538	680	660	522
55°	448	479	427	479	448	402
65°	291	295	302	295	291	290
75°	150	141	161	141	150	160
85°	35	28	31	28	35	42
90°	39	1	39	1	39	19
95°	49	78	49	78	49	41
105°	57	383	57	383	57	129
115°	756	719	756	719	756	699
125°	1034	1013	1034	1013	1034	923
135°	1274	1261	1274	1261	1274	983
145°	1470	1456	1470	1456	1470	917
155°	1601	1603	1601	1603	1601	738
165°	1687	1691	1687	1691	1687	476
175°	1724	1731	1724	1731	1724	164
180°	1731	1731	1731	1731	1731	



TEST NUMBER: P332168

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1146.7	1145.9	1143.8	1145.5	1142.1	1137.5	1137.1	1132.9	1120.7	1119.9	1116.6
5°	1283.7	1279.5	1279.0	1278.4	1271.1	1261.2	1242.3	1240.7	1215.6	1203.0	1187.9
7.5°	1461.0	1463.2	1455.6	1448.9	1426.5	1411.7	1391.5	1365.6	1334.8	1303.5	1282.6
10°	1588.4	1605.6	1584.2	1569.5	1555.9	1530.2	1500.4	1463.2	1426.1	1382.6	1349.6
12.5°	1724.9	1733.4	1729.1	1715.3	1694.1	1655.1	1602.2	1561.2	1527.0	1454.6	1425.4
15°	1910.8	1942.8	1922.4	1875.2	1876.3	1839.1	1770.0	1694.1	1653.8	1590.4	1504.1
17.5°	2108.9	2112.9	2104.2	2065.0	2038.8	1987.7	1923.9	1851.2	1769.5	1692.8	1601.2
20°	2214.5	2211.3	2193.0	2172.6	2127.6	2087.8	2018.2	1937.0	1832.3	1756.9	1656.9
22.5°	2273.1	2267.9	2259.2	2242.1	2204.6	2161.9	2099.4	2010.7	1911.1	1807.2	1691.7
25°	2267.9	2274.7	2275.7	2271.0	2257.9	2232.3	2183.1	2112.4	2012.9	1879.4	1759.0
27.5°	2062.7	2072.3	2100.3	2125.1	2152.8	2181.1	2177.3	2142.2	2068.6	1953.4	1806.1
30°	1857.4	1836.5	1888.3	1953.8	1998.3	2076.8	2120.8	2123.4	2082.0	1983.1	1839.6
32.5°	1572.6	1595.7	1618.6	1699.1	1796.4	1884.6	1972.1	2042.6	2050.6	1984.8	1859.3
35°	1221.9	1250.7	1292.6	1334.4	1439.2	1529.2	1683.1	1817.1	1923.9	1938.1	1861.1
37.5°	984.6	998.9	1025.4	1067.3	1135.8	1242.6	1361.7	1531.1	1685.8	1800.9	1805.9
40°	860.7	864.9	894.7	926.6	982.1	1070.1	1177.4	1327.1	1512.4	1673.2	1740.2
42.5°	767.7	776.9	789.6	820.2	864.4	930.6	1030.4	1154.1	1324.0	1509.0	1640.1
45°	659.6	670.1	678.0	698.4	729.8	774.3	843.9	957.0	1086.3	1277.4	1453.8
47.5°	588.2	589.1	594.9	610.3	631.7	665.1	714.3	787.0	905.7	1060.6	1241.8
50°	537.1	545.5	547.6	559.6	576.4	601.0	641.8	703.6	801.0	937.1	1103.6
52.5°	501.1	503.6	509.5	518.2	532.8	552.0	587.4	635.8	712.2	828.2	981.3
55°	448.1	448.1	453.9	460.7	469.1	486.3	509.9	545.5	603.6	693.7	820.4
57.5°	399.1	401.7	405.8	407.9	415.0	426.5	446.1	473.2	516.5	585.8	686.5
60°	366.5	371.2	370.7	374.8	381.1	390.0	406.8	428.8	467.5	523.0	607.8
62.5°	338.0	337.7	337.6	342.6	348.9	357.4	368.2	387.3	420.2	469.4	541.6
65°	291.1	290.0	293.7	296.8	298.9	305.2	313.6	330.3	352.3	389.0	445.0
67.5°	249.4	246.4	248.4	249.4	253.0	257.9	265.7	276.1	293.6	323.0	365.2
70°	220.9	218.3	217.8	218.8	222.0	225.6	231.4	241.3	257.6	281.1	312.0
72.5°	191.6	189.8	189.7	192.0	193.5	195.9	200.0	209.1	222.0	239.7	268.5
75°	149.7	149.7	149.7	150.2	151.8	153.9	157.1	161.8	171.7	184.3	203.6
77.5°	112.2	112.1	111.5	111.4	113.7	114.7	115.4	119.8	125.3	133.8	147.9
80°	88.0	85.3	86.4	88.0	89.0	89.5	91.1	92.1	96.9	101.6	111.5
82.5°	65.3	63.1	63.3	65.8	66.0	66.5	68.1	69.5	71.3	75.6	80.9
85°	34.6	34.6	35.1	35.1	35.6	35.1	36.6	37.2	37.2	39.8	42.9
87.5°	20.3	19.3	19.6	19.9	19.4	19.7	19.8	20.0	20.2	20.4	20.1
90°	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1	32.0	30.9	27.1
92.5°	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6	34.7	32.9	30.1
95°	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9	41.9	39.9	36.7
97.5°	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0	43.7	41.4	38.0
100°	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0	44.7	42.4	39.0
102.5°	55.0	54.5	54.0	53.5	53.0	52.3	50.4	48.4	46.4	44.4	42.4
105°	56.6	56.0	55.4	54.9	54.3	53.6	51.7	49.7	47.7	45.7	43.7
107.5°	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0	479.0	516.1	553.2
110°	353.6	394.5	435.3	476.2	517.0	557.8	598.7	639.6	680.5	721.4	762.3



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1	644.9	644.7	641.6
115°	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8	740.9	738.1	735.5
117.5°	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2	830.9	828.6	827.3
120°	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8	889.5	887.2	886.4
122.5°	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1	947.5	945.9	944.8
125°	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8	1029.2	1028.7	1027.5
127.5°	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7	1109.8	1108.9	1107.5
130°	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5	1158.4	1157.2	1156.1
132.5°	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8	1204.7	1203.5	1202.6
135°	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3	1273.1
137.5°	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5	1337.1	1335.7	1335.1
140°	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1	1377.0	1375.8	1375.0
142.5°	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7	1414.8	1413.9	1413.0
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3	1467.7	1467.1	1466.6
147.5°	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3	1514.8	1514.2	1513.6
150°	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1	1543.6	1543.0	1542.4
152.5°	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7	1568.7	1567.7	1567.3
155°	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0	1603.6	1602.1	1601.9
157.5°	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7	1633.9	1632.2	1632.5
160°	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1	1651.4	1649.7	1650.0
162.5°	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0	1667.1	1665.1	1665.4
165°	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3	1688.0	1685.7	1686.0
167.5°	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2	1702.2
170°	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4	1711.4
172.5°	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2	1719.9	1717.6	1717.4
175°	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6	1727.6	1725.6	1725.3
177.5°	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3	1730.5	1728.7	1728.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1114.0	1110.7	1107.3	1101.5	1096.5	1089.3	1087.2	1084.7	1077.2	1070.5	1065.5
5°	1182.1	1169.5	1151.2	1134.5	1120.9	1102.5	1092.1	1081.1	1065.4	1051.2	1039.7
7.5°	1253.3	1228.6	1200.1	1169.3	1140.6	1113.0	1090.7	1070.8	1048.8	1028.0	1011.8
10°	1309.8	1274.2	1234.5	1191.5	1154.9	1119.3	1089.4	1063.3	1035.0	1010.4	990.0
12.5°	1374.3	1321.6	1266.7	1214.6	1171.2	1121.8	1085.7	1052.4	1020.3	990.7	967.8
15°	1450.7	1383.7	1318.7	1247.0	1181.1	1119.3	1076.4	1034.5	997.3	966.9	937.6
17.5°	1520.2	1444.3	1358.7	1271.5	1191.9	1118.7	1058.6	1011.2	964.7	927.6	898.4
20°	1559.6	1473.2	1376.3	1285.8	1197.8	1116.1	1050.2	993.6	943.4	904.1	871.1
22.5°	1593.5	1492.4	1392.2	1295.4	1197.4	1109.4	1034.7	976.5	922.0	883.6	848.5
25°	1628.7	1507.7	1407.2	1293.6	1184.2	1093.1	1009.3	943.4	888.9	843.9	807.8
27.5°	1658.8	1506.7	1387.4	1265.2	1163.5	1072.2	982.7	912.0	854.2	805.3	768.6
30°	1678.9	1508.8	1366.9	1246.0	1143.4	1049.1	962.2	891.0	830.3	780.6	746.0
32.5°	1691.5	1507.5	1348.1	1219.2	1111.5	1028.2	940.0	866.3	803.9	755.0	721.7
35°	1698.8	1498.3	1315.6	1163.8	1060.1	979.0	905.2	828.7	763.3	717.7	680.1
37.5°	1684.2	1478.9	1277.9	1110.4	996.9	917.0	854.9	789.8	727.2	677.0	644.6
40°	1661.1	1466.4	1248.6	1072.7	953.3	876.4	823.5	759.6	697.8	650.2	619.8
42.5°	1617.1	1440.8	1216.3	1030.8	908.1	831.1	782.5	729.1	670.6	625.9	595.6
45°	1509.8	1385.2	1168.0	968.0	841.3	761.7	718.8	680.1	627.2	583.7	557.5
47.5°	1360.9	1301.6	1098.0	901.7	771.6	695.0	650.4	619.2	580.6	545.5	520.4
50°	1257.5	1232.9	1050.7	856.5	725.1	650.2	607.3	579.0	551.3	516.2	493.2
52.5°	1138.1	1153.3	995.4	809.6	677.7	604.1	563.7	541.3	516.1	487.3	467.2
55°	970.1	1025.0	899.9	730.8	607.3	537.1	498.9	479.0	464.4	442.9	425.6
57.5°	812.7	882.7	796.7	649.7	538.1	477.6	440.9	419.2	409.8	398.6	385.0
60°	719.3	788.4	723.0	595.2	491.6	434.0	401.5	383.2	373.8	365.9	354.4
62.5°	636.0	705.9	650.9	540.0	445.9	392.5	364.3	346.4	339.0	334.9	325.1
65°	521.4	581.6	545.0	453.9	380.6	333.5	307.8	295.3	288.5	286.9	280.6
67.5°	424.4	470.2	443.5	376.5	318.8	278.1	256.3	245.6	240.4	239.9	235.2
70°	360.7	403.6	383.2	322.5	272.8	240.8	222.0	212.5	209.4	208.9	206.3
72.5°	311.3	341.2	325.0	274.3	235.9	206.9	193.1	183.2	179.7	180.4	178.6
75°	230.3	252.9	243.4	208.4	177.5	158.6	147.1	140.8	137.7	139.3	137.2
77.5°	165.7	180.0	171.5	147.2	128.2	114.5	106.1	102.2	99.4	99.3	98.3
80°	125.1	133.5	128.8	114.1	98.4	86.9	80.1	77.5	75.9	75.4	74.9
82.5°	89.1	96.2	90.7	80.6	69.9	63.0	59.2	55.7	54.6	54.9	54.3
85°	45.0	47.6	45.5	39.3	35.1	31.9	29.8	28.3	27.2	27.7	26.7
87.5°	20.2	19.9	17.9	15.5	14.1	12.3	11.7	10.3	10.0	10.6	10.8
90°	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3	4.1	7.0	9.9
92.5°	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9	23.1	22.3	21.5
95°	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4	66.7	55.0	43.3
97.5°	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6	152.4	147.1	141.9
100°	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3	223.0	228.7	234.4
102.5°	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2	289.3	293.4	297.5
105°	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2	386.3	389.5	392.6
107.5°	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6	489.1	491.6	494.1
110°	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5	557.8	560.0	562.3



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3	623.4	625.4	627.5
115°	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8	720.5	722.2	723.9
117.5°	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2	815.3	817.4	819.5
120°	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8	874.4	876.9	879.5
122.5°	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5	933.6	935.7	937.8
125°	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2	1015.5	1017.8	1020.1
127.5°	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4	1094.7	1097.0	1099.3
130°	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8	1144.1	1146.4	1148.7
132.5°	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1	1191.4	1193.7	1196.0
135°	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4	1263.1	1264.8	1266.5
137.5°	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1	1325.3	1327.5	1329.6
140°	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3	1366.0	1367.7	1369.4
142.5°	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3	1404.0	1405.8	1407.5
145°	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6	1457.6	1459.6	1461.6
147.5°	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7	1507.0	1508.3	1509.6
150°	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6	1537.4	1538.3	1539.1
152.5°	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3	1564.7	1565.1	1565.5
155°	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4	1602.9	1602.3	1601.7
157.5°	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8	1633.7	1633.7	1633.6
160°	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3	1652.0	1651.7	1651.4
162.5°	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8	1669.0	1668.3	1667.5
165°	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9	1690.0	1689.1	1688.3
167.5°	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3	1706.2	1705.0	1703.9
170°	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6	1715.4	1714.3	1713.2
172.5°	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8	1721.4	1720.0	1718.6
175°	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7	1729.3	1727.9	1726.4
177.5°	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8	1731.6	1730.5	1729.4
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1062.5	1059.6	1055.4	1049.1	1044.1	1036.1	1036.1	1037.4	1037.4	1037.0	1036.1
5°	1030.3	1022.4	1013.0	1002.0	990.5	979.0	976.9	972.7	969.6	967.5	964.8
7.5°	996.3	982.3	968.6	953.2	939.2	927.6	919.5	912.8	908.5	903.9	900.6
10°	973.2	955.9	939.7	923.5	905.7	891.6	882.7	876.4	871.7	867.5	865.4
12.5°	946.0	926.2	908.3	892.9	873.4	858.9	850.4	847.5	841.9	833.1	828.5
15°	906.2	887.9	866.4	842.9	833.4	815.6	805.7	801.0	797.8	791.0	788.9
17.5°	872.2	848.2	824.1	806.5	789.0	774.6	769.0	763.2	759.0	753.4	751.8
20°	845.0	823.5	801.5	782.7	764.3	748.6	743.9	739.7	735.5	732.9	730.8
22.5°	817.3	795.9	777.6	760.0	740.5	730.2	725.1	720.5	717.5	715.8	713.7
25°	778.5	759.6	739.2	723.5	707.8	701.0	697.8	695.2	693.1	690.5	690.0
27.5°	743.7	723.2	706.6	692.0	680.7	675.0	672.0	670.7	671.2	672.1	672.7
30°	717.7	698.9	685.3	672.7	662.3	657.0	656.5	656.5	658.6	659.1	660.2
32.5°	693.9	678.4	664.8	652.6	644.7	641.1	643.1	643.1	644.8	646.1	648.0
35°	659.1	645.5	635.0	624.6	617.8	619.3	620.4	621.4	624.0	627.2	629.3
37.5°	625.9	614.1	603.2	595.0	591.9	594.7	597.2	599.4	602.5	604.9	607.0
40°	602.0	593.1	582.7	575.3	576.4	578.0	580.1	582.7	585.3	586.9	589.0
42.5°	579.8	570.5	562.6	556.5	558.0	560.0	561.2	562.6	565.6	568.4	569.7
45°	546.0	538.7	531.4	527.7	528.8	529.8	530.8	532.4	535.0	537.1	537.7
47.5°	508.0	502.9	498.0	494.4	496.1	495.7	497.0	500.4	501.2	502.5	505.4
50°	483.7	479.0	473.3	472.2	472.2	472.2	472.7	476.9	476.9	479.0	481.1
52.5°	456.9	453.9	450.2	448.3	447.5	447.5	449.7	451.8	452.6	455.6	457.7
55°	417.2	414.1	411.0	409.4	408.3	409.4	413.6	414.6	417.2	418.8	420.4
57.5°	375.9	373.5	371.0	370.1	369.9	371.3	373.6	376.7	377.4	382.2	384.6
60°	348.7	345.0	342.9	342.9	341.9	346.6	345.5	350.8	351.8	354.9	358.6
62.5°	320.6	315.7	314.8	314.8	316.3	317.7	319.1	321.4	324.2	328.1	331.0
65°	275.4	272.8	276.4	275.9	274.8	278.0	278.0	280.6	283.7	287.4	293.2
67.5°	232.5	231.2	231.5	231.5	233.1	234.9	236.3	238.6	242.4	246.3	250.0
70°	203.6	205.2	202.6	204.7	206.3	206.8	207.8	211.0	215.2	217.8	222.0
72.5°	175.6	175.5	175.8	176.6	178.2	179.1	180.2	183.8	188.4	190.6	193.9
75°	135.1	134.5	136.1	136.1	138.7	139.8	140.8	142.4	146.6	149.7	152.3
77.5°	98.6	99.3	98.9	100.7	100.0	100.2	103.4	105.0	105.4	111.6	113.0
80°	74.3	75.4	75.9	76.4	77.0	75.9	79.6	81.1	81.1	84.8	87.4
82.5°	53.4	54.0	55.4	55.9	56.0	57.1	57.4	58.5	59.8	61.4	64.8
85°	26.7	28.3	28.8	28.3	28.8	27.7	29.3	29.8	30.4	30.4	30.4
87.5°	10.9	12.0	12.3	13.5	13.8	15.0	15.2	14.6	14.8	16.3	14.8
90°	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1	34.3	35.4	36.3
92.5°	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6	38.4	40.2	41.3
95°	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9	45.9	47.9	48.9
97.5°	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0	48.3	50.5	51.8
100°	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0	49.3	51.6	52.9
102.5°	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4	63.3	56.3	53.0
105°	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4	129.9	79.3	54.3
107.5°	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0	404.9	367.8	330.2
110°	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0	551.6	542.2	517.0



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1	645.2	645.4	641.2
115°	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8	746.6	749.5	751.5
117.5°	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2	835.4	837.7	839.0
120°	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8	894.1	896.4	897.5
122.5°	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1	950.7	952.3	953.2
125°	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8	1030.4	1030.9	1031.5
127.5°	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7	1111.6	1112.6	1112.7
130°	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5	1160.7	1161.8	1162.1
132.5°	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8	1207.0	1208.1	1208.3
135°	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7
137.5°	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5	1339.8	1341.2	1341.6
140°	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1	1379.3	1380.4	1380.7
142.5°	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7	1416.6	1417.6	1417.6
145°	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3	1468.8	1469.4	1469.7
147.5°	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3	1515.9	1516.5	1516.1
150°	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1	1544.7	1545.3	1545.1
152.5°	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7	1570.8	1571.8	1571.7
155°	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0	1606.4	1607.9	1607.7
157.5°	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7	1637.4	1639.1	1638.8
160°	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1	1654.9	1656.6	1656.4
162.5°	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0	1671.0	1672.9	1673.0
165°	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3	1692.6	1694.9	1695.0
167.5°	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3
170°	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6
172.5°	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2	1724.5	1726.8	1726.6
175°	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6	1731.6	1733.6	1733.4
177.5°	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3	1734.2	1736.0	1735.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1033.2	1032.8	1035.7	1033.6	1035.7	1032.8	1033.2	1036.1	1037.0	1037.4	1037.4
5°	961.7	963.3	958.0	958.0	958.0	963.3	961.7	964.8	967.5	969.6	972.7
7.5°	898.0	895.7	895.9	893.1	895.9	895.7	898.0	900.6	903.9	908.5	912.8
10°	859.1	856.0	854.9	855.4	854.9	856.0	859.1	865.4	867.5	871.7	876.4
12.5°	826.8	826.2	819.3	819.4	819.3	826.2	826.8	828.5	833.1	841.9	847.5
15°	788.9	779.0	777.9	781.1	777.9	779.0	788.9	788.9	791.0	797.8	801.0
17.5°	750.9	745.7	746.0	744.4	746.0	745.7	750.9	751.8	753.4	759.0	763.2
20°	730.8	727.7	727.2	723.5	727.2	727.7	730.8	730.8	732.9	735.5	739.7
22.5°	712.4	711.4	711.7	707.6	711.7	711.4	712.4	713.7	715.8	717.5	720.5
25°	689.5	692.1	690.0	690.0	690.0	692.1	689.5	690.0	690.5	693.1	695.2
27.5°	674.0	673.9	672.8	672.8	672.8	673.9	674.0	672.7	672.1	671.2	670.7
30°	662.3	661.7	662.8	662.8	662.8	661.7	662.3	660.2	659.1	658.6	656.5
32.5°	650.5	651.3	651.5	651.9	651.5	651.3	650.5	648.0	646.1	644.8	643.1
35°	632.4	632.9	634.5	633.5	634.5	632.9	632.4	629.3	627.2	624.0	621.4
37.5°	607.9	610.3	609.8	610.6	609.8	610.3	607.9	607.0	604.9	602.5	599.4
40°	589.5	591.1	590.5	590.5	590.5	591.1	589.5	589.0	586.9	585.3	582.7
42.5°	570.6	571.8	570.4	569.6	570.4	571.8	570.6	569.7	568.4	565.6	562.6
45°	539.7	538.7	540.3	538.2	540.3	538.7	539.7	537.7	537.1	535.0	532.4
47.5°	505.2	506.2	506.7	508.2	506.7	506.2	505.2	505.4	502.5	501.2	500.4
50°	482.2	485.3	485.3	484.8	485.3	485.3	482.2	481.1	479.0	476.9	476.9
52.5°	459.5	461.0	463.1	463.0	463.1	461.0	459.5	457.7	455.6	452.6	451.8
55°	424.6	425.6	426.7	427.2	426.7	425.6	424.6	420.4	418.8	417.2	414.6
57.5°	388.3	387.9	390.4	391.2	390.4	387.9	388.3	384.6	382.2	377.4	376.7
60°	362.8	362.8	367.0	368.6	367.0	362.8	362.8	358.6	354.9	351.8	350.8
62.5°	335.6	337.3	341.4	339.2	341.4	337.3	335.6	331.0	328.1	324.2	321.4
65°	295.8	300.0	299.5	301.5	299.5	300.0	295.8	293.2	287.4	283.7	280.6
67.5°	254.2	256.8	260.6	260.9	260.6	256.8	254.2	250.0	246.3	242.4	238.6
70°	226.2	228.8	230.9	232.4	230.9	228.8	226.2	222.0	217.8	215.2	211.0
72.5°	198.9	200.3	205.3	203.1	205.3	200.3	198.9	193.9	190.6	188.4	183.8
75°	156.0	159.7	162.8	161.2	162.8	159.7	156.0	152.3	149.7	146.6	142.4
77.5°	115.4	119.0	120.5	119.2	120.5	119.0	115.4	113.0	111.6	105.4	105.0
80°	91.1	90.6	93.7	93.2	93.7	90.6	91.1	87.4	84.8	81.1	81.1
82.5°	66.8	66.3	67.7	68.1	67.7	66.3	66.8	64.8	61.4	59.8	58.5
85°	32.5	34.0	31.9	31.4	31.9	34.0	32.5	30.4	30.4	30.4	29.8
87.5°	14.9	15.0	14.7	14.4	14.7	15.0	14.9	14.8	16.3	14.8	14.6
90°	36.9	37.4	38.0	38.6	38.0	37.4	36.9	36.3	35.4	34.3	33.1
92.5°	41.7	42.0	42.3	42.7	42.3	42.0	41.7	41.3	40.2	38.4	36.6
95°	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.9	43.9
97.5°	52.1	52.4	52.7	53.0	52.7	52.4	52.1	51.8	50.5	48.3	46.0
100°	53.1	53.4	53.7	54.0	53.7	53.4	53.1	52.9	51.6	49.3	47.0
102.5°	53.5	54.0	54.5	55.0	54.5	54.0	53.5	53.0	56.3	63.3	70.4
105°	54.9	55.4	56.0	56.6	56.0	55.4	54.9	54.3	79.3	129.9	180.4
107.5°	292.1	253.9	215.8	177.7	215.8	253.9	292.1	330.2	367.8	404.9	442.0
110°	476.2	435.3	394.5	353.6	394.5	435.3	476.2	517.0	542.2	551.6	561.0



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	632.5	623.9	615.3	606.7	615.3	623.9	632.5	641.2	645.4	645.2	645.1
115°	752.6	753.8	754.9	756.1	754.9	753.8	752.6	751.5	749.5	746.6	743.8
117.5°	839.2	839.4	839.7	839.9	839.7	839.4	839.2	839.0	837.7	835.4	833.2
120°	897.5	897.5	897.5	897.5	897.5	897.5	897.5	897.5	896.4	894.1	891.8
122.5°	953.4	953.6	953.9	954.1	953.9	953.6	953.4	953.2	952.3	950.7	949.1
125°	1032.1	1032.7	1033.2	1033.8	1033.2	1032.7	1032.1	1031.5	1030.9	1030.4	1029.8
127.5°	1112.2	1111.6	1111.0	1110.4	1111.0	1111.6	1112.2	1112.7	1112.6	1111.6	1110.7
130°	1161.5	1161.0	1160.4	1159.8	1160.4	1161.0	1161.5	1162.1	1161.8	1160.7	1159.5
132.5°	1207.5	1206.7	1205.9	1205.1	1205.9	1206.7	1207.5	1208.3	1208.1	1207.0	1205.8
135°	1276.8	1276.0	1275.1	1274.3	1275.1	1276.0	1276.8	1277.7	1277.7	1276.8	1276.0
137.5°	1341.0	1340.5	1339.9	1339.3	1339.9	1340.5	1341.0	1341.6	1341.2	1339.8	1338.5
140°	1380.1	1379.5	1379.0	1378.4	1379.0	1379.5	1380.1	1380.7	1380.4	1379.3	1378.1
142.5°	1416.8	1416.0	1415.2	1414.4	1415.2	1416.0	1416.8	1417.6	1417.6	1416.6	1415.7
145°	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.7	1469.4	1468.8	1468.3
147.5°	1514.8	1513.5	1512.2	1510.8	1512.2	1513.5	1514.8	1516.1	1516.5	1515.9	1515.3
150°	1544.3	1543.4	1542.6	1541.7	1542.6	1543.4	1544.3	1545.1	1545.3	1544.7	1544.1
152.5°	1570.3	1569.0	1567.7	1566.4	1567.7	1569.0	1570.3	1571.7	1571.8	1570.8	1569.7
155°	1606.0	1604.3	1602.6	1600.9	1602.6	1604.3	1606.0	1607.7	1607.9	1606.4	1605.0
157.5°	1636.6	1634.4	1632.1	1629.9	1632.1	1634.4	1636.6	1638.8	1639.1	1637.4	1635.7
160°	1654.4	1652.4	1650.4	1648.4	1650.4	1652.4	1654.4	1656.4	1656.6	1654.9	1653.1
162.5°	1671.2	1669.5	1667.7	1665.9	1667.7	1669.5	1671.2	1673.0	1672.9	1671.0	1669.0
165°	1693.0	1691.0	1689.0	1687.0	1689.0	1691.0	1693.0	1695.0	1694.9	1692.6	1690.3
167.5°	1709.0	1706.8	1704.5	1702.2	1704.5	1706.8	1709.0	1711.3	1711.3	1709.0	1706.8
170°	1718.3	1716.0	1713.7	1711.4	1713.7	1716.0	1718.3	1720.6	1720.6	1718.3	1716.0
172.5°	1724.1	1721.6	1719.1	1716.6	1719.1	1721.6	1724.1	1726.6	1726.8	1724.5	1722.2
175°	1731.2	1728.9	1726.6	1724.3	1726.6	1728.9	1731.2	1733.4	1733.6	1731.6	1729.6
177.5°	1733.5	1731.2	1728.9	1726.6	1728.9	1731.2	1733.5	1735.8	1736.0	1734.2	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1036.1	1036.1	1044.1	1049.1	1055.4	1059.6	1062.5	1065.5	1070.5	1077.2	1084.7
5°	976.9	979.0	990.5	1002.0	1013.0	1022.4	1030.3	1039.7	1051.2	1065.4	1081.1
7.5°	919.5	927.6	939.2	953.2	968.6	982.3	996.3	1011.8	1028.0	1048.8	1070.8
10°	882.7	891.6	905.7	923.5	939.7	955.9	973.2	990.0	1010.4	1035.0	1063.3
12.5°	850.4	858.9	873.4	892.9	908.3	926.2	946.0	967.8	990.7	1020.3	1052.4
15°	805.7	815.6	833.4	842.9	866.4	887.9	906.2	937.6	966.9	997.3	1034.5
17.5°	769.0	774.6	789.0	806.5	824.1	848.2	872.2	898.4	927.6	964.7	1011.2
20°	743.9	748.6	764.3	782.7	801.5	823.5	845.0	871.1	904.1	943.4	993.6
22.5°	725.1	730.2	740.5	760.0	777.6	795.9	817.3	848.5	883.6	922.0	976.5
25°	697.8	701.0	707.8	723.5	739.2	759.6	778.5	807.8	843.9	888.9	943.4
27.5°	672.0	675.0	680.7	692.0	706.6	723.2	743.7	768.6	805.3	854.2	912.0
30°	656.5	657.0	662.3	672.7	685.3	698.9	717.7	746.0	780.6	830.3	891.0
32.5°	643.1	641.1	644.7	652.6	664.8	678.4	693.9	721.7	755.0	803.9	866.3
35°	620.4	619.3	617.8	624.6	635.0	645.5	659.1	680.1	717.7	763.3	828.7
37.5°	597.2	594.7	591.9	595.0	603.2	614.1	625.9	644.6	677.0	727.2	789.8
40°	580.1	578.0	576.4	575.3	582.7	593.1	602.0	619.8	650.2	697.8	759.6
42.5°	561.2	560.0	558.0	556.5	562.6	570.5	579.8	595.6	625.9	670.6	729.1
45°	530.8	529.8	528.8	527.7	531.4	538.7	546.0	557.5	583.7	627.2	680.1
47.5°	497.0	495.7	496.1	494.4	498.0	502.9	508.0	520.4	545.5	580.6	619.2
50°	472.7	472.2	472.2	472.2	473.3	479.0	483.7	493.2	516.2	551.3	579.0
52.5°	449.7	447.5	447.5	448.3	450.2	453.9	456.9	467.2	487.3	516.1	541.3
55°	413.6	409.4	408.3	409.4	411.0	414.1	417.2	425.6	442.9	464.4	479.0
57.5°	373.6	371.3	369.9	370.1	371.0	373.5	375.9	385.0	398.6	409.8	419.2
60°	345.5	346.6	341.9	342.9	342.9	345.0	348.7	354.4	365.9	373.8	383.2
62.5°	319.1	317.7	316.3	314.8	314.8	315.7	320.6	325.1	334.9	339.0	346.4
65°	278.0	278.0	274.8	275.9	276.4	272.8	275.4	280.6	286.9	288.5	295.3
67.5°	236.3	234.9	233.1	231.5	231.5	231.2	232.5	235.2	239.9	240.4	245.6
70°	207.8	206.8	206.3	204.7	202.6	205.2	203.6	206.3	208.9	209.4	212.5
72.5°	180.2	179.1	178.2	176.6	175.8	175.5	175.6	178.6	180.4	179.7	183.2
75°	140.8	139.8	138.7	136.1	136.1	134.5	135.1	137.2	139.3	137.7	140.8
77.5°	103.4	100.2	100.0	100.7	98.9	99.3	98.6	98.3	99.3	99.4	102.2
80°	79.6	75.9	77.0	76.4	75.9	75.4	74.3	74.9	75.4	75.9	77.5
82.5°	57.4	57.1	56.0	55.9	55.4	54.0	53.4	54.3	54.9	54.6	55.7
85°	29.3	27.7	28.8	28.3	28.8	28.3	26.7	26.7	27.7	27.2	28.3
87.5°	15.2	15.0	13.8	13.5	12.3	12.0	10.9	10.8	10.6	10.0	10.3
90°	32.0	30.9	27.1	23.4	19.7	16.0	12.7	9.9	7.0	4.1	1.3
92.5°	34.7	32.9	30.1	27.3	24.5	21.7	20.7	21.5	22.3	23.1	23.9
95°	41.9	39.9	36.7	33.6	30.4	27.3	31.6	43.3	55.0	66.7	78.4
97.5°	43.7	41.4	62.0	82.6	103.1	123.7	136.6	141.9	147.1	152.4	157.6
100°	44.7	42.4	87.0	131.6	176.2	220.7	240.2	234.4	228.7	223.0	217.3
102.5°	77.5	84.6	133.3	182.0	230.7	279.4	301.7	297.5	293.4	289.3	285.2
105°	231.0	281.6	307.3	333.0	358.7	384.5	395.7	392.6	389.5	386.3	383.2
107.5°	479.0	516.1	512.1	508.0	504.0	499.9	496.6	494.1	491.6	489.1	486.6
110°	570.5	579.9	576.8	573.6	570.5	567.3	564.6	562.3	560.0	557.8	555.5



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	644.9	644.7	641.6	638.4	635.3	632.1	629.5	627.5	625.4	623.4	621.3
115°	740.9	738.1	735.5	732.9	730.3	727.8	725.6	723.9	722.2	720.5	718.8
117.5°	830.9	828.6	827.3	826.0	824.6	823.3	821.6	819.5	817.4	815.3	813.2
120°	889.5	887.2	886.4	885.5	884.6	883.8	882.1	879.5	876.9	874.4	871.8
122.5°	947.5	945.9	944.8	943.7	942.6	941.5	939.9	937.8	935.7	933.6	931.5
125°	1029.2	1028.7	1027.5	1026.4	1025.2	1024.1	1022.4	1020.1	1017.8	1015.5	1013.2
127.5°	1109.8	1108.9	1107.5	1106.2	1104.8	1103.4	1101.6	1099.3	1097.0	1094.7	1092.4
130°	1158.4	1157.2	1156.1	1155.0	1153.8	1152.7	1151.0	1148.7	1146.4	1144.1	1141.8
132.5°	1204.7	1203.5	1202.6	1201.7	1200.8	1199.9	1198.3	1196.0	1193.7	1191.4	1189.1
135°	1275.1	1274.3	1273.1	1272.0	1270.8	1269.7	1268.3	1266.5	1264.8	1263.1	1261.4
137.5°	1337.1	1335.7	1335.1	1334.5	1333.8	1333.2	1331.8	1329.6	1327.5	1325.3	1323.1
140°	1377.0	1375.8	1375.0	1374.1	1373.3	1372.4	1371.1	1369.4	1367.7	1366.0	1364.3
142.5°	1414.8	1413.9	1413.0	1412.2	1411.3	1410.5	1409.2	1407.5	1405.8	1404.0	1402.3
145°	1467.7	1467.1	1466.6	1466.0	1465.4	1464.8	1463.6	1461.6	1459.6	1457.6	1455.6
147.5°	1514.8	1514.2	1513.6	1513.0	1512.5	1511.9	1511.0	1509.6	1508.3	1507.0	1505.7
150°	1543.6	1543.0	1542.4	1541.8	1541.3	1540.7	1540.0	1539.1	1538.3	1537.4	1536.6
152.5°	1568.7	1567.7	1567.3	1567.0	1566.7	1566.3	1565.9	1565.5	1565.1	1564.7	1564.3
155°	1603.6	1602.1	1601.9	1601.6	1601.3	1601.0	1601.1	1601.7	1602.3	1602.9	1603.4
157.5°	1633.9	1632.2	1632.5	1632.8	1633.1	1633.4	1633.5	1633.6	1633.7	1633.7	1633.8
160°	1651.4	1649.7	1650.0	1650.3	1650.6	1650.9	1651.1	1651.4	1651.7	1652.0	1652.3
162.5°	1667.1	1665.1	1665.4	1665.7	1666.0	1666.3	1666.8	1667.5	1668.3	1669.0	1669.8
165°	1688.0	1685.7	1686.0	1686.3	1686.6	1686.9	1687.4	1688.3	1689.1	1690.0	1690.9
167.5°	1704.5	1702.2	1702.2	1702.2	1702.2	1702.2	1702.7	1703.9	1705.0	1706.2	1707.3
170°	1713.7	1711.4	1711.4	1711.4	1711.4	1711.4	1712.0	1713.2	1714.3	1715.4	1716.6
172.5°	1719.9	1717.6	1717.4	1717.2	1716.9	1716.7	1717.3	1718.6	1720.0	1721.4	1722.8
175°	1727.6	1725.6	1725.3	1725.0	1724.7	1724.4	1725.0	1726.4	1727.9	1729.3	1730.7
177.5°	1730.5	1728.7	1728.4	1728.2	1728.0	1727.8	1728.2	1729.4	1730.5	1731.6	1732.8
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1087.2	1089.3	1096.5	1101.5	1107.3	1110.7	1114.0	1116.6	1119.9	1120.7	1132.9
5°	1092.1	1102.5	1120.9	1134.5	1151.2	1169.5	1182.1	1187.9	1203.0	1215.6	1240.7
7.5°	1090.7	1113.0	1140.6	1169.3	1200.1	1228.6	1253.3	1282.6	1303.5	1334.8	1365.6
10°	1089.4	1119.3	1154.9	1191.5	1234.5	1274.2	1309.8	1349.6	1382.6	1426.1	1463.2
12.5°	1085.7	1121.8	1171.2	1214.6	1266.7	1321.6	1374.3	1425.4	1454.6	1527.0	1561.2
15°	1076.4	1119.3	1181.1	1247.0	1318.7	1383.7	1450.7	1504.1	1590.4	1653.8	1694.1
17.5°	1058.6	1118.7	1191.9	1271.5	1358.7	1444.3	1520.2	1601.2	1692.8	1769.5	1851.2
20°	1050.2	1116.1	1197.8	1285.8	1376.3	1473.2	1559.6	1656.9	1756.9	1832.3	1937.0
22.5°	1034.7	1109.4	1197.4	1295.4	1392.2	1492.4	1593.5	1691.7	1807.2	1911.1	2010.7
25°	1009.3	1093.1	1184.2	1293.6	1407.2	1507.7	1628.7	1759.0	1879.4	2012.9	2112.4
27.5°	982.7	1072.2	1163.5	1265.2	1387.4	1506.7	1658.8	1806.1	1953.4	2068.6	2142.2
30°	962.2	1049.1	1143.4	1246.0	1366.9	1508.8	1678.9	1839.6	1983.1	2082.0	2123.4
32.5°	940.0	1028.2	1111.5	1219.2	1348.1	1507.5	1691.5	1859.3	1984.8	2050.6	2042.6
35°	905.2	979.0	1060.1	1163.8	1315.6	1498.3	1698.8	1861.1	1938.1	1923.9	1817.1
37.5°	854.9	917.0	996.9	1110.4	1277.9	1478.9	1684.2	1805.9	1800.9	1685.8	1531.1
40°	823.5	876.4	953.3	1072.7	1248.6	1466.4	1661.1	1740.2	1673.2	1512.4	1327.1
42.5°	782.5	831.1	908.1	1030.8	1216.3	1440.8	1617.1	1640.1	1509.0	1324.0	1154.1
45°	718.8	761.7	841.3	968.0	1168.0	1385.2	1509.8	1453.8	1277.4	1086.3	957.0
47.5°	650.4	695.0	771.6	901.7	1098.0	1301.6	1360.9	1241.8	1060.6	905.7	787.0
50°	607.3	650.2	725.1	856.5	1050.7	1232.9	1257.5	1103.6	937.1	801.0	703.6
52.5°	563.7	604.1	677.7	809.6	995.4	1153.3	1138.1	981.3	828.2	712.2	635.8
55°	498.9	537.1	607.3	730.8	899.9	1025.0	970.1	820.4	693.7	603.6	545.5
57.5°	440.9	477.6	538.1	649.7	796.7	882.7	812.7	686.5	585.8	516.5	473.2
60°	401.5	434.0	491.6	595.2	723.0	788.4	719.3	607.8	523.0	467.5	428.8
62.5°	364.3	392.5	445.9	540.0	650.9	705.9	636.0	541.6	469.4	420.2	387.3
65°	307.8	333.5	380.6	453.9	545.0	581.6	521.4	445.0	389.0	352.3	330.3
67.5°	256.3	278.1	318.8	376.5	443.5	470.2	424.4	365.2	323.0	293.6	276.1
70°	222.0	240.8	272.8	322.5	383.2	403.6	360.7	312.0	281.1	257.6	241.3
72.5°	193.1	206.9	235.9	274.3	325.0	341.2	311.3	268.5	239.7	222.0	209.1
75°	147.1	158.6	177.5	208.4	243.4	252.9	230.3	203.6	184.3	171.7	161.8
77.5°	106.1	114.5	128.2	147.2	171.5	180.0	165.7	147.9	133.8	125.3	119.8
80°	80.1	86.9	98.4	114.1	128.8	133.5	125.1	111.5	101.6	96.9	92.1
82.5°	59.2	63.0	69.9	80.6	90.7	96.2	89.1	80.9	75.6	71.3	69.5
85°	29.8	31.9	35.1	39.3	45.5	47.6	45.0	42.9	39.8	37.2	37.2
87.5°	11.7	12.3	14.1	15.5	17.9	19.9	20.2	20.1	20.4	20.2	20.0
90°	4.1	7.0	9.9	12.7	16.0	19.7	23.4	27.1	30.9	32.0	33.1
92.5°	23.1	22.3	21.5	20.7	21.7	24.5	27.3	30.1	32.9	34.7	36.6
95°	66.7	55.0	43.3	31.6	27.3	30.4	33.6	36.7	39.9	41.9	43.9
97.5°	152.4	147.1	141.9	136.6	123.7	103.1	82.6	62.0	41.4	43.7	46.0
100°	223.0	228.7	234.4	240.2	220.7	176.2	131.6	87.0	42.4	44.7	47.0
102.5°	289.3	293.4	297.5	301.7	279.4	230.7	182.0	133.3	84.6	77.5	70.4
105°	386.3	389.5	392.6	395.7	384.5	358.7	333.0	307.3	281.6	231.0	180.4
107.5°	489.1	491.6	494.1	496.6	499.9	504.0	508.0	512.1	516.1	479.0	442.0
110°	557.8	560.0	562.3	564.6	567.3	570.5	573.6	576.8	579.9	570.5	561.0



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	623.4	625.4	627.5	629.5	632.1	635.3	638.4	641.6	644.7	644.9	645.1
115°	720.5	722.2	723.9	725.6	727.8	730.3	732.9	735.5	738.1	740.9	743.8
117.5°	815.3	817.4	819.5	821.6	823.3	824.6	826.0	827.3	828.6	830.9	833.2
120°	874.4	876.9	879.5	882.1	883.8	884.6	885.5	886.4	887.2	889.5	891.8
122.5°	933.6	935.7	937.8	939.9	941.5	942.6	943.7	944.8	945.9	947.5	949.1
125°	1015.5	1017.8	1020.1	1022.4	1024.1	1025.2	1026.4	1027.5	1028.7	1029.2	1029.8
127.5°	1094.7	1097.0	1099.3	1101.6	1103.4	1104.8	1106.2	1107.5	1108.9	1109.8	1110.7
130°	1144.1	1146.4	1148.7	1151.0	1152.7	1153.8	1155.0	1156.1	1157.2	1158.4	1159.5
132.5°	1191.4	1193.7	1196.0	1198.3	1199.9	1200.8	1201.7	1202.6	1203.5	1204.7	1205.8
135°	1263.1	1264.8	1266.5	1268.3	1269.7	1270.8	1272.0	1273.1	1274.3	1275.1	1276.0
137.5°	1325.3	1327.5	1329.6	1331.8	1333.2	1333.8	1334.5	1335.1	1335.7	1337.1	1338.5
140°	1366.0	1367.7	1369.4	1371.1	1372.4	1373.3	1374.1	1375.0	1375.8	1377.0	1378.1
142.5°	1404.0	1405.8	1407.5	1409.2	1410.5	1411.3	1412.2	1413.0	1413.9	1414.8	1415.7
145°	1457.6	1459.6	1461.6	1463.6	1464.8	1465.4	1466.0	1466.6	1467.1	1467.7	1468.3
147.5°	1507.0	1508.3	1509.6	1511.0	1511.9	1512.5	1513.0	1513.6	1514.2	1514.8	1515.3
150°	1537.4	1538.3	1539.1	1540.0	1540.7	1541.3	1541.8	1542.4	1543.0	1543.6	1544.1
152.5°	1564.7	1565.1	1565.5	1565.9	1566.3	1566.7	1567.0	1567.3	1567.7	1568.7	1569.7
155°	1602.9	1602.3	1601.7	1601.1	1601.0	1601.3	1601.6	1601.9	1602.1	1603.6	1605.0
157.5°	1633.7	1633.7	1633.6	1633.5	1633.4	1633.1	1632.8	1632.5	1632.2	1633.9	1635.7
160°	1652.0	1651.7	1651.4	1651.1	1650.9	1650.6	1650.3	1650.0	1649.7	1651.4	1653.1
162.5°	1669.0	1668.3	1667.5	1666.8	1666.3	1666.0	1665.7	1665.4	1665.1	1667.1	1669.0
165°	1690.0	1689.1	1688.3	1687.4	1686.9	1686.6	1686.3	1686.0	1685.7	1688.0	1690.3
167.5°	1706.2	1705.0	1703.9	1702.7	1702.2	1702.2	1702.2	1702.2	1702.2	1704.5	1706.8
170°	1715.4	1714.3	1713.2	1712.0	1711.4	1711.4	1711.4	1711.4	1711.4	1713.7	1716.0
172.5°	1721.4	1720.0	1718.6	1717.3	1716.7	1716.9	1717.2	1717.4	1717.6	1719.9	1722.2
175°	1729.3	1727.9	1726.4	1725.0	1724.4	1724.7	1725.0	1725.3	1725.6	1727.6	1729.6
177.5°	1731.6	1730.5	1729.4	1728.2	1727.8	1728.0	1728.2	1728.4	1728.7	1730.5	1732.3
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1137.1	1137.5	1142.1	1145.5	1143.8	1145.9	1146.7
5°	1242.3	1261.2	1271.1	1278.4	1279.0	1279.5	1283.7
7.5°	1391.5	1411.7	1426.5	1448.9	1455.6	1463.2	1461.0
10°	1500.4	1530.2	1555.9	1569.5	1584.2	1605.6	1588.4
12.5°	1602.2	1655.1	1694.1	1715.3	1729.1	1733.4	1724.9
15°	1770.0	1839.1	1876.3	1875.2	1922.4	1942.8	1910.8
17.5°	1923.9	1987.7	2038.8	2065.0	2104.2	2112.9	2108.9
20°	2018.2	2087.8	2127.6	2172.6	2193.0	2211.3	2214.5
22.5°	2099.4	2161.9	2204.6	2242.1	2259.2	2267.9	2273.1
25°	2183.1	2232.3	2257.9	2271.0	2275.7	2274.7	2267.9
27.5°	2177.3	2181.1	2152.8	2125.1	2100.3	2072.3	2062.7
30°	2120.8	2076.8	1998.3	1953.8	1888.3	1836.5	1857.4
32.5°	1972.1	1884.6	1796.4	1699.1	1618.6	1595.7	1572.6
35°	1683.1	1529.2	1439.2	1334.4	1292.6	1250.7	1221.9
37.5°	1361.7	1242.6	1135.8	1067.3	1025.4	998.9	984.6
40°	1177.4	1070.1	982.1	926.6	894.7	864.9	860.7
42.5°	1030.4	930.6	864.4	820.2	789.6	776.9	767.7
45°	843.9	774.3	729.8	698.4	678.0	670.1	659.6
47.5°	714.3	665.1	631.7	610.3	594.9	589.1	588.2
50°	641.8	601.0	576.4	559.6	547.6	545.5	537.1
52.5°	587.4	552.0	532.8	518.2	509.5	503.6	501.1
55°	509.9	486.3	469.1	460.7	453.9	448.1	448.1
57.5°	446.1	426.5	415.0	407.9	405.8	401.7	399.1
60°	406.8	390.0	381.1	374.8	370.7	371.2	366.5
62.5°	368.2	357.4	348.9	342.6	337.6	337.7	338.0
65°	313.6	305.2	298.9	296.8	293.7	290.0	291.1
67.5°	265.7	257.9	253.0	249.4	248.4	246.4	249.4
70°	231.4	225.6	222.0	218.8	217.8	218.3	220.9
72.5°	200.0	195.9	193.5	192.0	189.7	189.8	191.6
75°	157.1	153.9	151.8	150.2	149.7	149.7	149.7
77.5°	115.4	114.7	113.7	111.4	111.5	112.1	112.2
80°	91.1	89.5	89.0	88.0	86.4	85.3	88.0
82.5°	68.1	66.5	66.0	65.8	63.3	63.1	65.3
85°	36.6	35.1	35.6	35.1	35.1	34.6	34.6
87.5°	19.8	19.7	19.4	19.9	19.6	19.3	20.3
90°	34.3	35.4	36.3	36.9	37.4	38.0	38.6
92.5°	38.4	40.2	41.3	41.7	42.0	42.3	42.7
95°	45.9	47.9	48.9	48.9	48.9	48.9	48.9
97.5°	48.3	50.5	51.8	52.1	52.4	52.7	53.0
100°	49.3	51.6	52.9	53.1	53.4	53.7	54.0
102.5°	63.3	56.3	53.0	53.5	54.0	54.5	55.0
105°	129.9	79.3	54.3	54.9	55.4	56.0	56.6
107.5°	404.9	367.8	330.2	292.1	253.9	215.8	177.7
110°	551.6	542.2	517.0	476.2	435.3	394.5	353.6



TEST NUMBER: P332168

CATALOG NUMBER: S123DIW-S775D1320U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	645.2	645.4	641.2	632.5	623.9	615.3	606.7
115°	746.6	749.5	751.5	752.6	753.8	754.9	756.1
117.5°	835.4	837.7	839.0	839.2	839.4	839.7	839.9
120°	894.1	896.4	897.5	897.5	897.5	897.5	897.5
122.5°	950.7	952.3	953.2	953.4	953.6	953.9	954.1
125°	1030.4	1030.9	1031.5	1032.1	1032.7	1033.2	1033.8
127.5°	1111.6	1112.6	1112.7	1112.2	1111.6	1111.0	1110.4
130°	1160.7	1161.8	1162.1	1161.5	1161.0	1160.4	1159.8
132.5°	1207.0	1208.1	1208.3	1207.5	1206.7	1205.9	1205.1
135°	1276.8	1277.7	1277.7	1276.8	1276.0	1275.1	1274.3
137.5°	1339.8	1341.2	1341.6	1341.0	1340.5	1339.9	1339.3
140°	1379.3	1380.4	1380.7	1380.1	1379.5	1379.0	1378.4
142.5°	1416.6	1417.6	1417.6	1416.8	1416.0	1415.2	1414.4
145°	1468.8	1469.4	1469.7	1469.7	1469.7	1469.7	1469.7
147.5°	1515.9	1516.5	1516.1	1514.8	1513.5	1512.2	1510.8
150°	1544.7	1545.3	1545.1	1544.3	1543.4	1542.6	1541.7
152.5°	1570.8	1571.8	1571.7	1570.3	1569.0	1567.7	1566.4
155°	1606.4	1607.9	1607.7	1606.0	1604.3	1602.6	1600.9
157.5°	1637.4	1639.1	1638.8	1636.6	1634.4	1632.1	1629.9
160°	1654.9	1656.6	1656.4	1654.4	1652.4	1650.4	1648.4
162.5°	1671.0	1672.9	1673.0	1671.2	1669.5	1667.7	1665.9
165°	1692.6	1694.9	1695.0	1693.0	1691.0	1689.0	1687.0
167.5°	1709.0	1711.3	1711.3	1709.0	1706.8	1704.5	1702.2
170°	1718.3	1720.6	1720.6	1718.3	1716.0	1713.7	1711.4
172.5°	1724.5	1726.8	1726.6	1724.1	1721.6	1719.1	1716.6
175°	1731.6	1733.6	1733.4	1731.2	1728.9	1726.6	1724.3
177.5°	1734.2	1736.0	1735.8	1733.5	1731.2	1728.9	1726.6
180°	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7	1730.7

(END OF REPORT)