

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: P332462-935

Luminaire Tested: **S123RDIW-S1000D1320U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332462-935
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: S123RDIW-S1000D1320U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7956.4 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

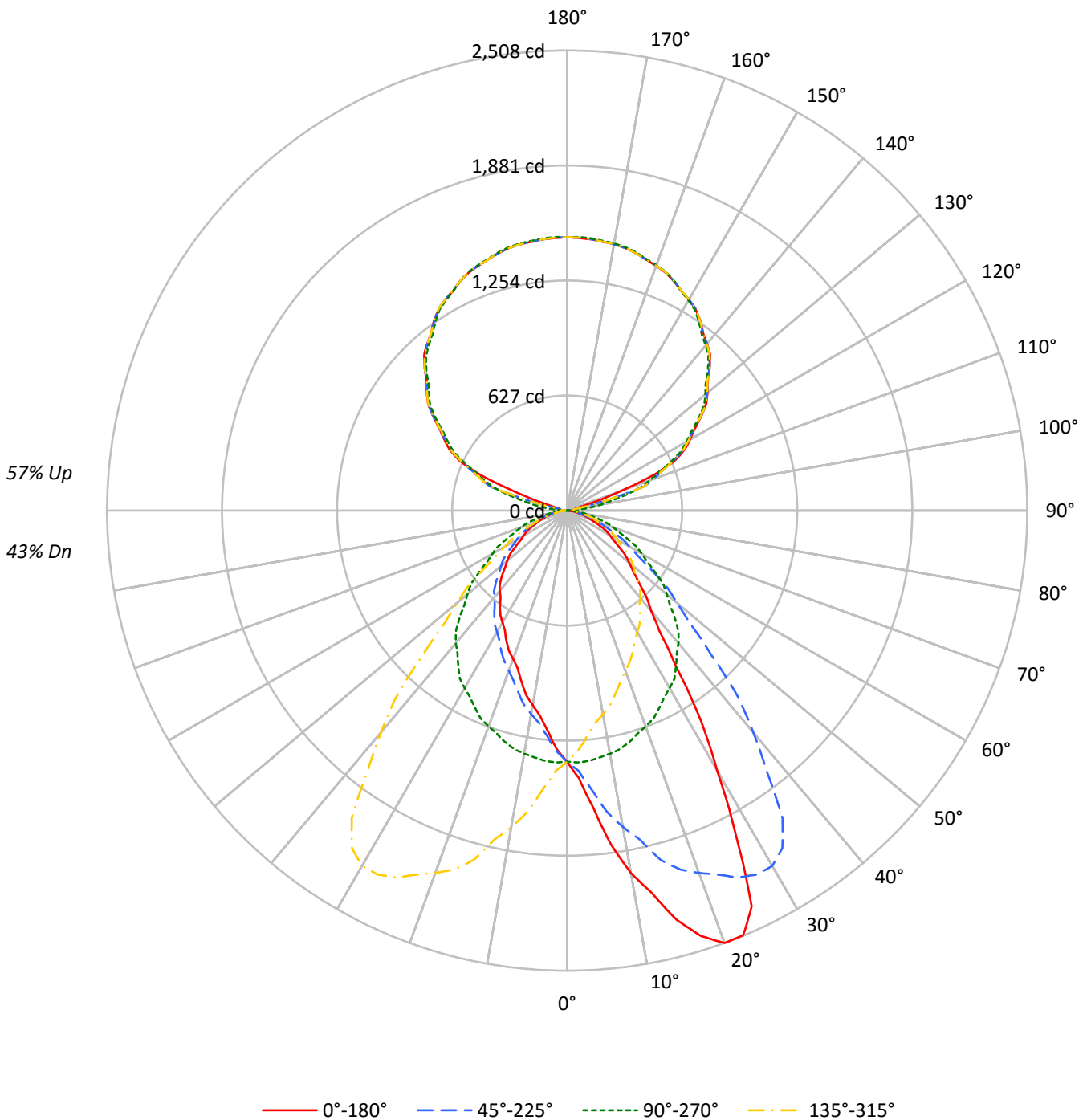
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43					43			
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	45	44	43	37					37			
2	88	81	76	71	81	75	70	66	62	59	56	51	48	46	40	38	37	32					32			
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28					28			
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24					24			
5	68	57	49	44	62	53	46	41	44	39	35	37	33	30	29	27	25	21					21			
6	63	51	44	38	58	48	41	36	40	35	31	33	29	26	27	24	22	19					19			
7	58	47	39	33	53	43	36	31	36	31	27	30	26	23	24	22	20	17					17			
8	54	42	35	30	50	39	33	28	33	28	24	28	24	21	23	20	18	15					15			
9	50	39	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14					14			
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14733	14733	14733	14733
5°	17562	14795	13029	14795
10°	21928	14711	11770	14711
15°	25740	14561	10735	14561
20°	28726	14336	9852	14336
25°	28268	14099	9311	14099
30°	20319	13881	8754	13881
35°	13566	13596	8393	13596
40°	9996	13256	8019	13256
45°	8385	12657	7652	12657
50°	7398	11871	7142	11871
55°	6488	10975	6444	10975
60°	5778	10116	5903	10116
65°	5074	9192	5491	9192
70°	3984	8371	5017	8371
75°	3510	7311	4579	7311
80°	3050	6211	4506	6211
85°	2458	5002	4780	5002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.7
10°-20°	420.5	5.3
20°-30°	660.6	8.3
30°-40°	689.3	8.7
40°-50°	589.9	7.4
50°-60°	449.6	5.7
60°-70°	288.2	3.6
70°-80°	138.6	1.7
80°-90°	40.9	0.5
90°-100°	54.2	0.7
100°-110°	258.2	3.2
110°-120°	620.2	7.8
120°-130°	789.8	9.9
130°-140°	843.9	10.6
140°-150°	789.1	9.9
150°-160°	636.5	8.0
160°-170°	410.8	5.2
170°-180°	141.6	1.8
0°-30°	1215.8	15.3
0°-40°	1905.0	23.9
0°-60°	2944.5	37.0
0°-90°	3412.1	42.9
90°-120°	932.6	11.7
90°-150°	3355.4	42.2
90°-180°	4544.0	57.1
0°-180°	7956.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1625	1369	1206	1369	1625	168
15°	2310	1307	963	1307	2310	655
25°	2380	1187	784	1187	2380	1023
35°	1032	1035	639	1035	1032	677
45°	551	832	503	832	551	433
55°	346	585	343	585	346	313
65°	199	361	216	361	199	196
75°	84	176	110	176	84	90
85°	20	40	39	40	20	24
90°	33	1	33	1	33	16
95°	42	68	42	68	42	35
105°	49	330	49	330	49	111
115°	651	619	651	619	651	602
125°	890	872	890	872	890	795
135°	1097	1086	1097	1086	1097	846
145°	1265	1253	1265	1253	1265	790
155°	1378	1380	1378	1380	1378	636
165°	1452	1456	1452	1456	1452	410
175°	1485	1490	1485	1490	1485	141
180°	1490	1490	1490	1490	1490	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1457.8	1459.7	1453.6	1452.7	1445.6	1443.7	1443.7	1433.9	1427.8	1419.9	1415.1
5°	1625.4	1634.8	1630.0	1619.5	1602.0	1597.8	1586.7	1569.2	1549.2	1524.6	1512.9
7.5°	1834.7	1847.4	1842.5	1826.3	1807.8	1792.9	1761.6	1732.4	1691.5	1655.6	1625.0
10°	2006.2	1992.8	1982.2	1966.4	1949.4	1921.8	1889.0	1843.9	1791.8	1750.8	1705.1
12.5°	2134.7	2132.4	2119.1	2102.8	2078.8	2052.6	2012.3	1957.4	1896.8	1837.5	1785.2
15°	2309.8	2313.2	2304.5	2287.5	2253.5	2207.3	2146.3	2123.5	2036.7	1972.3	1907.8
17.5°	2430.9	2430.3	2429.1	2405.5	2370.8	2337.9	2281.4	2221.3	2142.8	2051.9	1965.1
20°	2507.8	2502.0	2503.1	2476.8	2451.0	2412.9	2357.8	2270.5	2206.1	2101.2	2011.6
22.5°	2505.9	2504.7	2509.2	2500.2	2481.5	2452.3	2408.9	2335.2	2252.9	2147.1	2046.3
25°	2380.1	2375.4	2403.0	2410.5	2440.4	2445.7	2432.8	2392.4	2314.5	2205.5	2080.7
27.5°	1991.9	1989.3	2040.5	2104.5	2185.6	2248.6	2309.5	2339.0	2314.5	2236.4	2111.3
30°	1634.8	1689.9	1715.6	1808.2	1911.3	2034.4	2142.2	2244.7	2269.9	2235.9	2133.4
32.5°	1357.3	1405.3	1426.8	1506.3	1602.4	1746.5	1908.3	2053.5	2156.0	2182.0	2120.3
35°	1032.4	1033.0	1082.2	1117.4	1206.4	1354.7	1511.7	1706.2	1899.6	2046.1	2061.3
37.5°	823.8	826.7	856.5	891.6	958.4	1036.7	1175.0	1336.8	1560.1	1785.0	1916.8
40°	711.4	716.6	738.9	773.4	821.5	880.6	988.5	1140.8	1327.1	1577.4	1781.8
42.5°	639.1	647.7	659.2	685.8	715.6	770.9	858.2	975.9	1145.3	1381.9	1617.8
45°	550.8	555.4	564.3	576.5	603.5	642.2	700.8	779.9	920.5	1110.9	1347.0
47.5°	485.9	483.4	492.7	502.7	520.6	546.9	586.2	650.7	751.1	903.9	1104.1
50°	441.8	441.2	447.6	455.3	472.3	491.6	523.8	572.5	652.1	778.7	962.1
52.5°	400.5	402.8	407.3	416.8	429.1	444.7	473.6	508.7	577.1	686.4	839.3
55°	345.7	347.5	353.9	359.2	368.0	383.7	401.9	431.3	478.1	554.3	680.3
57.5°	299.3	298.5	304.7	306.0	315.9	328.8	342.9	365.7	399.6	456.2	541.1
60°	268.4	266.6	271.9	276.0	281.3	291.8	303.5	325.8	352.8	394.3	467.0
62.5°	240.2	239.4	243.3	247.4	251.8	261.3	271.2	288.3	309.6	344.7	402.3
65°	199.2	201.0	202.8	204.5	206.8	212.7	222.1	233.8	248.4	273.0	314.6
67.5°	156.5	158.3	158.9	162.6	167.6	171.3	176.9	187.4	197.6	218.3	242.0
70°	126.6	126.0	126.6	128.3	134.7	141.2	148.9	156.4	162.9	177.5	197.4
72.5°	108.7	107.7	109.3	109.6	112.7	114.5	119.3	126.5	134.7	144.7	159.0
75°	84.4	84.4	84.4	84.4	86.7	87.9	89.6	91.4	94.4	99.0	109.6
77.5°	62.3	62.4	63.3	63.9	64.3	65.0	66.1	67.8	68.9	71.4	75.9
80°	49.2	49.8	49.2	49.8	49.8	51.0	51.6	53.3	53.9	56.8	58.6
82.5°	37.0	36.7	37.0	37.6	37.6	38.8	38.9	40.2	40.3	41.8	43.6
85°	19.9	18.8	19.9	19.4	20.5	19.4	19.9	21.1	21.1	21.7	24.0
87.5°	11.4	12.1	11.1	11.5	11.4	11.7	11.5	11.4	12.1	11.4	11.3
90°	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5	27.6	26.6	23.3
92.5°	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5	29.9	28.3	25.9
95°	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8	36.1	34.4	31.6
97.5°	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6	37.6	35.6	53.4
100°	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5	38.5	36.5	74.9
102.5°	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6	66.7	72.8	114.8
105°	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3	198.9	242.5	264.6
107.5°	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6	412.4	444.4	440.9
110°	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0	491.2	499.3	496.6



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4	555.3	555.1	552.4
115°	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4	637.9	635.5	633.3
117.5°	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4	715.4	713.4	712.3
120°	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8	765.9	763.9	763.2
122.5°	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2	815.8	814.4	813.5
125°	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7	886.1	885.7	884.7
127.5°	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3	955.5	954.8	953.6
130°	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3	997.4	996.3	995.4
132.5°	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2	1037.2	1036.2	1035.4
135°	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2	1096.1
137.5°	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4	1151.2	1150.0	1149.5
140°	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5	1185.6	1184.6	1183.9
142.5°	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9	1218.1	1217.4	1216.6
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2	1263.7	1263.2	1262.7
147.5°	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7	1304.2	1303.7	1303.2
150°	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5	1329.0	1328.5	1328.0
152.5°	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5	1350.7	1349.8	1349.4
155°	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9	1380.7	1379.4	1379.2
157.5°	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3	1406.8	1405.3	1405.6
160°	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3	1421.9	1420.4	1420.6
162.5°	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0	1435.4	1433.7	1433.9
165°	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3	1453.4	1451.4	1451.6
167.5°	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6	1465.6
170°	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5	1473.5
172.5°	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8	1480.8	1478.9	1478.7
175°	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2	1487.5	1485.7	1485.5
177.5°	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5	1490.0	1488.4	1488.2
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1413.2	1411.9	1405.3	1397.8	1387.9	1381.4	1376.2	1373.5	1365.0	1354.7	1347.6
5°	1500.6	1483.0	1464.3	1441.4	1420.3	1398.6	1385.2	1369.3	1350.0	1328.4	1313.1
7.5°	1594.1	1559.6	1522.5	1484.2	1446.3	1412.4	1382.3	1356.7	1325.9	1294.8	1273.0
10°	1665.9	1615.4	1563.3	1509.9	1461.3	1415.7	1380.4	1345.9	1309.0	1273.2	1246.3
12.5°	1731.0	1664.7	1604.6	1539.0	1476.8	1422.2	1371.6	1330.9	1286.5	1248.4	1217.7
15°	1813.4	1745.5	1672.8	1573.2	1490.6	1421.5	1359.9	1306.7	1252.8	1205.8	1176.0
17.5°	1890.6	1788.3	1690.7	1607.6	1500.2	1413.8	1338.8	1275.0	1215.8	1166.1	1129.4
20°	1922.4	1823.4	1717.4	1611.4	1505.9	1409.2	1321.9	1251.5	1190.1	1133.8	1099.8
22.5°	1941.6	1829.5	1717.9	1603.9	1491.8	1391.4	1305.0	1227.7	1161.0	1107.5	1065.6
25°	1964.0	1830.5	1707.4	1594.9	1480.7	1371.7	1269.1	1187.1	1115.1	1058.2	1013.7
27.5°	1978.8	1821.7	1676.3	1551.2	1435.3	1326.8	1232.8	1145.8	1072.7	1012.6	964.8
30°	1981.7	1814.6	1652.3	1517.0	1399.2	1299.6	1200.0	1116.8	1039.5	975.6	931.1
32.5°	1985.4	1797.3	1620.0	1476.2	1355.6	1257.0	1166.7	1087.3	1008.1	945.1	899.7
35°	1970.0	1787.7	1570.9	1405.7	1285.0	1189.5	1108.0	1034.7	956.8	895.9	849.6
37.5°	1903.3	1749.6	1520.0	1326.2	1200.0	1111.6	1045.2	981.4	909.8	844.1	800.5
40°	1836.3	1712.1	1480.7	1277.9	1146.1	1055.2	995.5	943.4	874.3	812.7	765.9
42.5°	1736.5	1661.0	1443.2	1227.3	1085.1	997.6	947.2	898.4	837.7	775.2	731.2
45°	1553.3	1563.3	1366.4	1146.7	1000.7	912.9	865.4	831.5	777.6	726.0	680.9
47.5°	1323.6	1416.8	1276.3	1060.8	911.8	829.3	787.8	758.2	721.9	671.2	630.1
50°	1173.6	1306.7	1204.1	1003.2	856.1	774.0	733.0	708.9	677.3	637.5	598.2
52.5°	1035.4	1178.2	1116.9	938.9	795.6	720.6	680.5	660.7	635.6	598.1	562.6
55°	844.3	989.0	975.0	842.0	704.9	637.5	607.0	584.8	567.7	539.7	511.5
57.5°	682.9	820.2	827.4	734.2	625.0	558.4	532.2	515.4	504.3	483.0	457.0
60°	581.3	707.2	731.8	661.5	567.7	509.2	483.4	469.9	461.2	444.1	424.2
62.5°	496.9	604.1	632.0	581.3	512.9	458.1	437.9	424.9	419.0	404.3	386.8
65°	380.3	469.3	496.3	468.1	432.4	388.5	372.0	360.9	355.7	347.5	334.6
67.5°	285.9	350.9	380.4	360.6	347.7	319.9	309.5	303.5	298.9	293.2	282.4
70°	229.7	277.8	308.2	302.9	292.4	277.8	270.1	266.0	261.3	256.7	247.3
72.5°	184.7	217.7	246.3	249.0	240.4	237.5	230.7	229.0	226.2	220.6	215.4
75°	122.4	145.3	165.2	172.9	176.3	179.3	176.3	175.8	175.2	170.5	167.6
77.5°	80.2	92.6	105.1	118.1	123.6	127.6	128.5	130.7	129.2	126.7	125.3
80°	61.6	64.5	73.3	84.4	93.2	96.7	99.0	100.2	99.6	99.0	96.7
82.5°	44.7	47.1	51.2	59.1	66.5	72.3	73.7	73.4	74.7	75.1	73.3
85°	24.0	24.6	25.7	26.9	31.1	37.5	39.3	40.5	41.6	41.6	38.1
87.5°	11.5	10.4	10.8	10.2	11.1	11.0	13.3	15.2	16.2	14.8	15.3
90°	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1	3.5	6.0	8.5
92.5°	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6	19.9	19.2	18.5
95°	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5	57.4	47.4	37.3
97.5°	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7	131.2	126.7	122.2
100°	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1	192.0	196.9	201.8
102.5°	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6	249.1	252.6	256.1
105°	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9	332.6	335.4	338.0
107.5°	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0	421.1	423.3	425.4
110°	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3	480.3	482.2	484.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9	536.7	538.5	540.3
115°	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9	620.4	621.8	623.3
117.5°	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2	702.0	703.8	705.6
120°	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6	752.9	755.0	757.2
122.5°	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0	803.8	805.6	807.4
125°	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4	874.3	876.3	878.3
127.5°	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6	942.5	944.5	946.5
130°	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1	985.1	987.1	989.0
132.5°	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8	1025.8	1027.8	1029.8
135°	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1	1087.5	1089.0	1090.5
137.5°	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2	1141.1	1143.0	1144.8
140°	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7	1176.1	1177.6	1179.1
142.5°	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4	1208.8	1210.4	1211.9
145°	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3	1255.0	1256.7	1258.4
147.5°	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4	1297.5	1298.6	1299.8
150°	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0	1323.7	1324.5	1325.2
152.5°	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9	1347.2	1347.6	1347.9
155°	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5	1380.1	1379.6	1379.1
157.5°	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7	1406.6	1406.6	1406.5
160°	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6	1422.4	1422.1	1421.9
162.5°	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7	1437.0	1436.4	1435.7
165°	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9	1455.1	1454.3	1453.6
167.5°	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0	1469.0	1468.0	1467.1
170°	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0	1477.0	1476.0	1475.1
172.5°	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3	1482.1	1480.9	1479.7
175°	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1	1488.9	1487.7	1486.4
177.5°	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9	1490.9	1490.0	1489.0
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1345.3	1339.2	1335.0	1325.6	1319.6	1312.9	1306.4	1310.6	1310.2	1309.7	1309.7
5°	1300.2	1286.7	1274.5	1258.6	1248.6	1236.3	1226.9	1225.8	1228.1	1220.0	1215.2
7.5°	1255.4	1237.0	1219.6	1202.1	1183.6	1168.8	1159.6	1155.2	1149.3	1144.2	1138.9
10°	1224.0	1202.4	1185.3	1163.6	1143.8	1126.2	1115.1	1107.4	1103.3	1099.2	1091.6
12.5°	1191.7	1170.4	1148.8	1124.3	1105.4	1084.9	1076.6	1068.1	1060.2	1055.6	1045.2
15°	1144.4	1116.8	1094.0	1068.2	1047.1	1027.2	1015.5	998.4	996.1	990.2	979.7
17.5°	1096.9	1067.0	1035.4	1016.4	992.6	971.8	954.0	948.3	931.5	925.2	916.0
20°	1059.4	1031.8	1007.8	982.7	948.0	928.7	914.6	907.1	893.5	885.4	879.5
22.5°	1027.0	999.0	971.3	941.8	913.3	891.7	881.4	869.5	862.1	850.7	844.3
25°	980.9	950.4	917.0	885.4	864.9	848.4	832.1	821.5	811.0	805.6	793.9
27.5°	927.2	895.4	864.1	840.1	814.9	798.7	783.9	774.5	761.8	752.9	746.5
30°	897.7	860.1	833.2	811.5	779.3	764.1	752.9	741.2	731.8	722.5	716.0
32.5°	863.4	829.2	803.7	776.9	752.1	735.5	721.1	710.8	702.7	693.9	687.4
35°	809.8	781.1	754.7	727.7	709.6	692.6	675.6	666.8	659.2	651.0	645.1
37.5°	761.2	734.4	709.4	683.8	661.2	647.5	633.8	627.1	616.7	611.2	605.3
40°	731.2	704.9	678.0	653.3	629.9	619.3	607.0	597.1	587.7	583.6	577.1
42.5°	698.4	672.1	649.4	622.8	603.6	589.4	578.0	567.1	560.1	554.1	550.4
45°	649.8	626.4	604.1	577.7	559.6	547.3	534.3	524.4	518.0	513.8	507.4
47.5°	602.6	579.1	556.6	533.6	516.0	501.9	489.0	482.1	473.6	468.6	464.2
50°	568.3	547.3	523.2	502.1	484.6	470.5	459.9	451.2	443.6	437.1	434.2
52.5°	536.9	514.4	493.7	474.1	455.5	439.5	430.0	420.7	415.0	407.6	404.2
55°	485.2	463.5	445.9	426.5	408.4	394.9	383.2	375.0	369.1	360.9	356.3
57.5°	436.5	417.1	396.1	379.4	360.6	349.2	339.5	328.4	321.2	314.8	310.2
60°	403.7	381.4	363.3	347.5	331.1	316.4	307.6	298.9	291.2	284.7	280.7
62.5°	369.5	350.1	332.8	315.6	300.6	287.8	277.6	270.3	263.6	259.4	255.4
65°	317.0	301.8	284.2	270.1	256.1	246.7	238.5	232.0	227.3	224.4	220.9
67.5°	268.7	253.9	238.6	224.8	215.4	208.3	202.9	197.3	195.0	191.2	188.9
70°	237.3	222.1	208.6	198.0	188.6	183.4	179.9	175.8	173.4	168.8	166.4
72.5°	203.1	192.1	182.4	173.7	166.2	161.4	156.9	151.9	148.1	142.9	140.6
75°	160.0	150.0	142.4	136.6	131.8	125.4	118.9	113.7	111.9	110.1	109.6
77.5°	118.5	112.2	106.7	101.7	95.8	91.2	89.8	88.6	88.3	87.3	87.3
80°	93.2	87.3	83.2	77.3	73.8	73.8	73.8	72.7	73.3	73.3	73.3
82.5°	69.2	63.9	61.6	59.5	58.8	59.3	59.3	59.5	59.2	60.1	59.7
85°	35.7	36.3	37.5	36.9	37.5	37.5	38.7	38.1	38.7	37.5	38.7
87.5°	15.3	17.3	18.4	19.5	20.6	20.8	21.4	21.6	22.3	22.5	22.6
90°	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5	29.5	30.5	31.3
92.5°	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5	33.1	34.6	35.6
95°	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8	39.5	41.2	42.1
97.5°	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6	41.6	43.5	44.6
100°	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5	42.4	44.4	45.5
102.5°	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6	54.5	48.5	45.6
105°	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3	111.8	68.3	46.8
107.5°	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6	348.6	316.7	284.3
110°	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0	474.9	466.8	445.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4	555.5	555.7	552.1
115°	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4	642.8	645.3	647.0
117.5°	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4	719.3	721.3	722.4
120°	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8	769.8	771.8	772.7
122.5°	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2	818.6	819.9	820.7
125°	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7	887.2	887.6	888.1
127.5°	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3	957.1	957.9	958.0
130°	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3	999.4	1000.3	1000.6
132.5°	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2	1039.2	1040.2	1040.3
135°	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1
137.5°	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4	1153.6	1154.8	1155.1
140°	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5	1187.6	1188.5	1188.8
142.5°	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9	1219.7	1220.6	1220.6
145°	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2	1264.6	1265.2	1265.4
147.5°	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7	1305.2	1305.7	1305.4
150°	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5	1330.0	1330.5	1330.3
152.5°	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5	1352.5	1353.3	1353.2
155°	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9	1383.1	1384.4	1384.2
157.5°	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3	1409.8	1411.3	1411.0
160°	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3	1424.9	1426.3	1426.2
162.5°	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0	1438.7	1440.4	1440.5
165°	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3	1457.3	1459.3	1459.4
167.5°	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4
170°	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4
172.5°	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8	1484.8	1486.8	1486.6
175°	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2	1490.9	1492.6	1492.5
177.5°	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5	1493.1	1494.7	1494.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1304.1	1303.6	1304.1	1302.2	1304.1	1303.6	1304.1	1309.7	1309.7	1310.2	1310.6
5°	1213.5	1212.9	1211.2	1205.8	1211.2	1212.9	1213.5	1215.2	1220.0	1228.1	1225.8
7.5°	1134.4	1133.6	1128.4	1128.5	1128.4	1133.6	1134.4	1138.9	1144.2	1149.3	1155.2
10°	1087.5	1088.0	1081.1	1076.9	1081.1	1088.0	1087.5	1091.6	1099.2	1103.3	1107.4
12.5°	1042.1	1039.3	1033.7	1029.2	1033.7	1039.3	1042.1	1045.2	1055.6	1060.2	1068.1
15°	982.1	976.2	962.1	963.3	962.1	976.2	982.1	979.7	990.2	996.1	998.4
17.5°	911.4	907.1	906.8	898.6	906.8	907.1	911.4	916.0	925.2	931.5	948.3
20°	870.1	867.2	868.3	860.1	868.3	867.2	870.1	879.5	885.4	893.5	907.1
22.5°	837.8	834.8	829.9	827.3	829.9	834.8	837.8	844.3	850.7	862.1	869.5
25°	790.4	785.7	781.1	784.0	781.1	785.7	790.4	793.9	805.6	811.0	821.5
27.5°	743.1	739.6	734.9	734.3	734.9	739.6	743.1	746.5	752.9	761.8	774.5
30°	713.1	709.6	707.2	704.3	707.2	709.6	713.1	716.0	722.5	731.8	741.2
32.5°	682.6	681.9	677.7	677.1	677.7	681.9	682.6	687.4	693.9	702.7	710.8
35°	642.7	639.3	638.1	638.7	638.1	639.3	642.7	645.1	651.0	659.2	666.8
37.5°	604.9	600.2	598.1	596.0	598.1	600.2	604.9	605.3	611.2	616.7	627.1
40°	577.7	573.1	571.9	570.7	571.9	573.1	577.7	577.1	583.6	587.7	597.1
42.5°	547.3	545.4	544.7	542.6	544.7	545.4	547.3	550.4	554.1	560.1	567.1
45°	505.7	505.1	501.5	502.7	501.5	505.1	505.7	507.4	513.8	518.0	524.4
47.5°	461.8	459.3	456.8	458.4	456.8	459.3	461.8	464.2	468.6	473.6	482.1
50°	431.9	430.7	425.4	426.5	425.4	430.7	431.9	434.2	437.1	443.6	451.2
52.5°	401.8	397.4	395.4	394.7	395.4	397.4	401.8	404.2	407.6	415.0	420.7
55°	352.1	346.9	344.6	343.4	344.6	346.9	352.1	356.3	360.9	369.1	375.0
57.5°	303.4	302.0	300.1	301.4	300.1	302.0	303.4	310.2	314.8	321.2	328.4
60°	274.8	274.8	274.8	274.2	274.8	274.8	274.8	280.7	284.7	291.2	298.9
62.5°	252.8	251.3	250.9	251.8	250.9	251.3	252.8	255.4	259.4	263.6	270.3
65°	219.1	218.5	216.2	215.6	216.2	218.5	219.1	220.9	224.4	227.3	232.0
67.5°	187.4	185.3	184.6	183.7	184.6	185.3	187.4	188.9	191.2	195.0	197.3
70°	163.5	162.3	158.8	159.4	158.8	162.3	163.5	166.4	168.8	173.4	175.8
72.5°	137.7	136.6	135.8	135.0	135.8	136.6	137.7	140.6	142.9	148.1	151.9
75°	109.0	108.4	107.8	110.1	107.8	108.4	109.0	109.6	110.1	111.9	113.7
77.5°	87.3	87.3	87.6	86.7	87.6	87.3	87.3	87.3	87.3	88.3	88.6
80°	73.3	73.3	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	72.7
82.5°	58.7	59.2	59.5	58.6	59.5	59.2	58.7	59.7	60.1	59.2	59.5
85°	38.7	38.1	39.3	38.7	39.3	38.1	38.7	38.7	37.5	38.7	38.1
87.5°	23.7	22.8	23.0	23.5	23.0	22.8	23.7	22.6	22.5	22.3	21.6
90°	31.8	32.2	32.7	33.2	32.7	32.2	31.8	31.3	30.5	29.5	28.5
92.5°	35.9	36.2	36.4	36.8	36.4	36.2	35.9	35.6	34.6	33.1	31.5
95°	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	41.2	39.5	37.8
97.5°	44.9	45.1	45.4	45.6	45.4	45.1	44.9	44.6	43.5	41.6	39.6
100°	45.7	46.0	46.2	46.5	46.2	46.0	45.7	45.5	44.4	42.4	40.5
102.5°	46.1	46.5	46.9	47.4	46.9	46.5	46.1	45.6	48.5	54.5	60.6
105°	47.3	47.7	48.2	48.7	48.2	47.7	47.3	46.8	68.3	111.8	155.3
107.5°	251.5	218.6	185.8	153.0	185.8	218.6	251.5	284.3	316.7	348.6	380.6
110°	410.0	374.8	339.7	304.4	339.7	374.8	410.0	445.1	466.8	474.9	483.0



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	544.6	537.2	529.8	522.4	529.8	537.2	544.6	552.1	555.7	555.5	555.4
115°	648.0	649.0	650.0	651.0	650.0	649.0	648.0	647.0	645.3	642.8	640.4
117.5°	722.6	722.7	723.0	723.2	723.0	722.7	722.6	722.4	721.3	719.3	717.4
120°	772.7	772.7	772.7	772.7	772.7	772.7	772.7	772.7	771.8	769.8	767.8
122.5°	820.9	821.0	821.3	821.5	821.3	821.0	820.9	820.7	819.9	818.6	817.2
125°	888.6	889.2	889.6	890.1	889.6	889.2	888.6	888.1	887.6	887.2	886.7
127.5°	957.6	957.1	956.6	956.1	956.6	957.1	957.6	958.0	957.9	957.1	956.3
130°	1000.1	999.6	999.1	998.6	999.1	999.6	1000.1	1000.6	1000.3	999.4	998.3
132.5°	1039.7	1039.0	1038.3	1037.6	1038.3	1039.0	1039.7	1040.3	1040.2	1039.2	1038.2
135°	1099.3	1098.6	1097.9	1097.2	1097.9	1098.6	1099.3	1100.1	1100.1	1099.3	1098.6
137.5°	1154.6	1154.2	1153.7	1153.1	1153.7	1154.2	1154.6	1155.1	1154.8	1153.6	1152.4
140°	1188.3	1187.7	1187.3	1186.8	1187.3	1187.7	1188.3	1188.8	1188.5	1187.6	1186.5
142.5°	1219.9	1219.2	1218.5	1217.8	1218.5	1219.2	1219.9	1220.6	1220.6	1219.7	1218.9
145°	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.4	1265.2	1264.6	1264.2
147.5°	1304.2	1303.1	1302.0	1300.8	1302.0	1303.1	1304.2	1305.4	1305.7	1305.2	1304.7
150°	1329.6	1328.9	1328.2	1327.4	1328.2	1328.9	1329.6	1330.3	1330.5	1330.0	1329.5
152.5°	1352.0	1350.9	1349.8	1348.7	1349.8	1350.9	1352.0	1353.2	1353.3	1352.5	1351.5
155°	1382.8	1381.3	1379.8	1378.4	1379.8	1381.3	1382.8	1384.2	1384.4	1383.1	1381.9
157.5°	1409.1	1407.2	1405.2	1403.3	1405.2	1407.2	1409.1	1411.0	1411.3	1409.8	1408.3
160°	1424.4	1422.7	1421.0	1419.3	1421.0	1422.7	1424.4	1426.2	1426.3	1424.9	1423.3
162.5°	1438.9	1437.4	1435.9	1434.3	1435.9	1437.4	1438.9	1440.5	1440.4	1438.7	1437.0
165°	1457.7	1456.0	1454.2	1452.5	1454.2	1456.0	1457.7	1459.4	1459.3	1457.3	1455.3
167.5°	1471.4	1469.6	1467.6	1465.6	1467.6	1469.6	1471.4	1473.4	1473.4	1471.4	1469.6
170°	1479.5	1477.5	1475.5	1473.5	1475.5	1477.5	1479.5	1481.4	1481.4	1479.5	1477.5
172.5°	1484.5	1482.3	1480.1	1478.0	1480.1	1482.3	1484.5	1486.6	1486.8	1484.8	1482.8
175°	1490.6	1488.6	1486.6	1484.6	1486.6	1488.6	1490.6	1492.5	1492.6	1490.9	1489.2
177.5°	1492.5	1490.6	1488.6	1486.6	1488.6	1490.6	1492.5	1494.5	1494.7	1493.1	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1306.4	1312.9	1319.6	1325.6	1335.0	1339.2	1345.3	1347.6	1354.7	1365.0	1373.5
5°	1226.9	1236.3	1248.6	1258.6	1274.5	1286.7	1300.2	1313.1	1328.4	1350.0	1369.3
7.5°	1159.6	1168.8	1183.6	1202.1	1219.6	1237.0	1255.4	1273.0	1294.8	1325.9	1356.7
10°	1115.1	1126.2	1143.8	1163.6	1185.3	1202.4	1224.0	1246.3	1273.2	1309.0	1345.9
12.5°	1076.6	1084.9	1105.4	1124.3	1148.8	1170.4	1191.7	1217.7	1248.4	1286.5	1330.9
15°	1015.5	1027.2	1047.1	1068.2	1094.0	1116.8	1144.4	1176.0	1205.8	1252.8	1306.7
17.5°	954.0	971.8	992.6	1016.4	1035.4	1067.0	1096.9	1129.4	1166.1	1215.8	1275.0
20°	914.6	928.7	948.0	982.7	1007.8	1031.8	1059.4	1099.8	1133.8	1190.1	1251.5
22.5°	881.4	891.7	913.3	941.8	971.3	999.0	1027.0	1065.6	1107.5	1161.0	1227.7
25°	832.1	848.4	864.9	885.4	917.0	950.4	980.9	1013.7	1058.2	1115.1	1187.1
27.5°	783.9	798.7	814.9	840.1	864.1	895.4	927.2	964.8	1012.6	1072.7	1145.8
30°	752.9	764.1	779.3	811.5	833.2	860.1	897.7	931.1	975.6	1039.5	1116.8
32.5°	721.1	735.5	752.1	776.9	803.7	829.2	863.4	899.7	945.1	1008.1	1087.3
35°	675.6	692.6	709.6	727.7	754.7	781.1	809.8	849.6	895.9	956.8	1034.7
37.5°	633.8	647.5	661.2	683.8	709.4	734.4	761.2	800.5	844.1	909.8	981.4
40°	607.0	619.3	629.9	653.3	678.0	704.9	731.2	765.9	812.7	874.3	943.4
42.5°	578.0	589.4	603.6	622.8	649.4	672.1	698.4	731.2	775.2	837.7	898.4
45°	534.3	547.3	559.6	577.7	604.1	626.4	649.8	680.9	726.0	777.6	831.5
47.5°	489.0	501.9	516.0	533.6	556.6	579.1	602.6	630.1	671.2	721.9	758.2
50°	459.9	470.5	484.6	502.1	523.2	547.3	568.3	598.2	637.5	677.3	708.9
52.5°	430.0	439.5	455.5	474.1	493.7	514.4	536.9	562.6	598.1	635.6	660.7
55°	383.2	394.9	408.4	426.5	445.9	463.5	485.2	511.5	539.7	567.7	584.8
57.5°	339.5	349.2	360.6	379.4	396.1	417.1	436.5	457.0	483.0	504.3	515.4
60°	307.6	316.4	331.1	347.5	363.3	381.4	403.7	424.2	444.1	461.2	469.9
62.5°	277.6	287.8	300.6	315.6	332.8	350.1	369.5	386.8	404.3	419.0	424.9
65°	238.5	246.7	256.1	270.1	284.2	301.8	317.0	334.6	347.5	355.7	360.9
67.5°	202.9	208.3	215.4	224.8	238.6	253.9	268.7	282.4	293.2	298.9	303.5
70°	179.9	183.4	188.6	198.0	208.6	222.1	237.3	247.3	256.7	261.3	266.0
72.5°	156.9	161.4	166.2	173.7	182.4	192.1	203.1	215.4	220.6	226.2	229.0
75°	118.9	125.4	131.8	136.6	142.4	150.0	160.0	167.6	170.5	175.2	175.8
77.5°	89.8	91.2	95.8	101.7	106.7	112.2	118.5	125.3	126.7	129.2	130.7
80°	73.8	73.8	73.8	77.3	83.2	87.3	93.2	96.7	99.0	99.6	100.2
82.5°	59.3	59.3	58.8	59.5	61.6	63.9	69.2	73.3	75.1	74.7	73.4
85°	38.7	37.5	37.5	36.9	37.5	36.3	35.7	38.1	41.6	41.6	40.5
87.5°	21.4	20.8	20.6	19.5	18.4	17.3	15.3	15.3	14.8	16.2	15.2
90°	27.6	26.6	23.3	20.1	17.0	13.8	10.9	8.5	6.0	3.5	1.1
92.5°	29.9	28.3	25.9	23.5	21.1	18.7	17.8	18.5	19.2	19.9	20.6
95°	36.1	34.4	31.6	28.9	26.2	23.5	27.2	37.3	47.4	57.4	67.5
97.5°	37.6	35.6	53.4	71.1	88.8	106.5	117.6	122.2	126.7	131.2	135.7
100°	38.5	36.5	74.9	113.3	151.7	190.0	206.8	201.8	196.9	192.0	187.1
102.5°	66.7	72.8	114.8	156.7	198.6	240.6	259.8	256.1	252.6	249.1	245.6
105°	198.9	242.5	264.6	286.7	308.8	331.1	340.7	338.0	335.4	332.6	329.9
107.5°	412.4	444.4	440.9	437.4	433.9	430.4	427.6	425.4	423.3	421.1	419.0
110°	491.2	499.3	496.6	493.9	491.2	488.4	486.1	484.1	482.2	480.3	478.3



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	555.3	555.1	552.4	549.7	547.0	544.2	542.0	540.3	538.5	536.7	534.9
115°	637.9	635.5	633.3	631.0	628.8	626.6	624.7	623.3	621.8	620.4	618.9
117.5°	715.4	713.4	712.3	711.2	710.0	708.9	707.4	705.6	703.8	702.0	700.2
120°	765.9	763.9	763.2	762.4	761.6	761.0	759.5	757.2	755.0	752.9	750.6
122.5°	815.8	814.4	813.5	812.5	811.6	810.6	809.3	807.4	805.6	803.8	802.0
125°	886.1	885.7	884.7	883.7	882.7	881.8	880.3	878.3	876.3	874.3	872.4
127.5°	955.5	954.8	953.6	952.4	951.2	950.0	948.5	946.5	944.5	942.5	940.6
130°	997.4	996.3	995.4	994.5	993.4	992.5	991.0	989.0	987.1	985.1	983.1
132.5°	1037.2	1036.2	1035.4	1034.7	1033.9	1033.1	1031.7	1029.8	1027.8	1025.8	1023.8
135°	1097.9	1097.2	1096.1	1095.2	1094.2	1093.2	1092.0	1090.5	1089.0	1087.5	1086.1
137.5°	1151.2	1150.0	1149.5	1149.0	1148.4	1147.9	1146.7	1144.8	1143.0	1141.1	1139.2
140°	1185.6	1184.6	1183.9	1183.1	1182.4	1181.6	1180.5	1179.1	1177.6	1176.1	1174.7
142.5°	1218.1	1217.4	1216.6	1215.9	1215.1	1214.4	1213.3	1211.9	1210.4	1208.8	1207.4
145°	1263.7	1263.2	1262.7	1262.2	1261.7	1261.2	1260.2	1258.4	1256.7	1255.0	1253.3
147.5°	1304.2	1303.7	1303.2	1302.7	1302.3	1301.7	1301.0	1299.8	1298.6	1297.5	1296.4
150°	1329.0	1328.5	1328.0	1327.5	1327.1	1326.5	1325.9	1325.2	1324.5	1323.7	1323.0
152.5°	1350.7	1349.8	1349.4	1349.2	1348.9	1348.6	1348.2	1347.9	1347.6	1347.2	1346.9
155°	1380.7	1379.4	1379.2	1379.0	1378.7	1378.5	1378.5	1379.1	1379.6	1380.1	1380.5
157.5°	1406.8	1405.3	1405.6	1405.8	1406.1	1406.4	1406.4	1406.5	1406.6	1406.6	1406.7
160°	1421.9	1420.4	1420.6	1420.9	1421.2	1421.4	1421.6	1421.9	1422.1	1422.4	1422.6
162.5°	1435.4	1433.7	1433.9	1434.2	1434.4	1434.7	1435.1	1435.7	1436.4	1437.0	1437.7
165°	1453.4	1451.4	1451.6	1451.9	1452.2	1452.4	1452.9	1453.6	1454.3	1455.1	1455.9
167.5°	1467.6	1465.6	1465.6	1465.6	1465.6	1465.6	1466.0	1467.1	1468.0	1469.0	1470.0
170°	1475.5	1473.5	1473.5	1473.5	1473.5	1473.5	1474.0	1475.1	1476.0	1477.0	1478.0
172.5°	1480.8	1478.9	1478.7	1478.5	1478.3	1478.1	1478.6	1479.7	1480.9	1482.1	1483.3
175°	1487.5	1485.7	1485.5	1485.2	1485.0	1484.7	1485.2	1486.4	1487.7	1488.9	1490.1
177.5°	1490.0	1488.4	1488.2	1488.0	1487.8	1487.6	1488.0	1489.0	1490.0	1490.9	1491.9
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1376.2	1381.4	1387.9	1397.8	1405.3	1411.9	1413.2	1415.1	1419.9	1427.8	1433.9
5°	1385.2	1398.6	1420.3	1441.4	1464.3	1483.0	1500.6	1512.9	1524.6	1549.2	1569.2
7.5°	1382.3	1412.4	1446.3	1484.2	1522.5	1559.6	1594.1	1625.0	1655.6	1691.5	1732.4
10°	1380.4	1415.7	1461.3	1509.9	1563.3	1615.4	1665.9	1705.1	1750.8	1791.8	1843.9
12.5°	1371.6	1422.2	1476.8	1539.0	1604.6	1664.7	1731.0	1785.2	1837.5	1896.8	1957.4
15°	1359.9	1421.5	1490.6	1573.2	1672.8	1745.5	1813.4	1907.8	1972.3	2036.7	2123.5
17.5°	1338.8	1413.8	1500.2	1607.6	1690.7	1788.3	1890.6	1965.1	2051.9	2142.8	2221.3
20°	1321.9	1409.2	1505.9	1611.4	1717.4	1823.4	1922.4	2011.6	2101.2	2206.1	2270.5
22.5°	1305.0	1391.4	1491.8	1603.9	1717.9	1829.5	1941.6	2046.3	2147.1	2252.9	2335.2
25°	1269.1	1371.7	1480.7	1594.9	1707.4	1830.5	1964.0	2080.7	2205.5	2314.5	2392.4
27.5°	1232.8	1326.8	1435.3	1551.2	1676.3	1821.7	1978.8	2111.3	2236.4	2314.5	2339.0
30°	1200.0	1299.6	1399.2	1517.0	1652.3	1814.6	1981.7	2133.4	2235.9	2269.9	2244.7
32.5°	1166.7	1257.0	1355.6	1476.2	1620.0	1797.3	1985.4	2120.3	2182.0	2156.0	2053.5
35°	1108.0	1189.5	1285.0	1405.7	1570.9	1787.7	1970.0	2061.3	2046.1	1899.6	1706.2
37.5°	1045.2	1111.6	1200.0	1326.2	1520.0	1749.6	1903.3	1916.8	1785.0	1560.1	1336.8
40°	995.5	1055.2	1146.1	1277.9	1480.7	1712.1	1836.3	1781.8	1577.4	1327.1	1140.8
42.5°	947.2	997.6	1085.1	1227.3	1443.2	1661.0	1736.5	1617.8	1381.9	1145.3	975.9
45°	865.4	912.9	1000.7	1146.7	1366.4	1563.3	1553.3	1347.0	1110.9	920.5	779.9
47.5°	787.8	829.3	911.8	1060.8	1276.3	1416.8	1323.6	1104.1	903.9	751.1	650.7
50°	733.0	774.0	856.1	1003.2	1204.1	1306.7	1173.6	962.1	778.7	652.1	572.5
52.5°	680.5	720.6	795.6	938.9	1116.9	1178.2	1035.4	839.3	686.4	577.1	508.7
55°	607.0	637.5	704.9	842.0	975.0	989.0	844.3	680.3	554.3	478.1	431.3
57.5°	532.2	558.4	625.0	734.2	827.4	820.2	682.9	541.1	456.2	399.6	365.7
60°	483.4	509.2	567.7	661.5	731.8	707.2	581.3	467.0	394.3	352.8	325.8
62.5°	437.9	458.1	512.9	581.3	632.0	604.1	496.9	402.3	344.7	309.6	288.3
65°	372.0	388.5	432.4	468.1	496.3	469.3	380.3	314.6	273.0	248.4	233.8
67.5°	309.5	319.9	347.7	360.6	380.4	350.9	285.9	242.0	218.3	197.6	187.4
70°	270.1	277.8	292.4	302.9	308.2	277.8	229.7	197.4	177.5	162.9	156.4
72.5°	230.7	237.5	240.4	249.0	246.3	217.7	184.7	159.0	144.7	134.7	126.5
75°	176.3	179.3	176.3	172.9	165.2	145.3	122.4	109.6	99.0	94.4	91.4
77.5°	128.5	127.6	123.6	118.1	105.1	92.6	80.2	75.9	71.4	68.9	67.8
80°	99.0	96.7	93.2	84.4	73.3	64.5	61.6	58.6	56.8	53.9	53.3
82.5°	73.7	72.3	66.5	59.1	51.2	47.1	44.7	43.6	41.8	40.3	40.2
85°	39.3	37.5	31.1	26.9	25.7	24.6	24.0	24.0	21.7	21.1	21.1
87.5°	13.3	11.0	11.1	10.2	10.8	10.4	11.5	11.3	11.4	12.1	11.4
90°	3.5	6.0	8.5	10.9	13.8	17.0	20.1	23.3	26.6	27.6	28.5
92.5°	19.9	19.2	18.5	17.8	18.7	21.1	23.5	25.9	28.3	29.9	31.5
95°	57.4	47.4	37.3	27.2	23.5	26.2	28.9	31.6	34.4	36.1	37.8
97.5°	131.2	126.7	122.2	117.6	106.5	88.8	71.1	53.4	35.6	37.6	39.6
100°	192.0	196.9	201.8	206.8	190.0	151.7	113.3	74.9	36.5	38.5	40.5
102.5°	249.1	252.6	256.1	259.8	240.6	198.6	156.7	114.8	72.8	66.7	60.6
105°	332.6	335.4	338.0	340.7	331.1	308.8	286.7	264.6	242.5	198.9	155.3
107.5°	421.1	423.3	425.4	427.6	430.4	433.9	437.4	440.9	444.4	412.4	380.6
110°	480.3	482.2	484.1	486.1	488.4	491.2	493.9	496.6	499.3	491.2	483.0



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	536.7	538.5	540.3	542.0	544.2	547.0	549.7	552.4	555.1	555.3	555.4
115°	620.4	621.8	623.3	624.7	626.6	628.8	631.0	633.3	635.5	637.9	640.4
117.5°	702.0	703.8	705.6	707.4	708.9	710.0	711.2	712.3	713.4	715.4	717.4
120°	752.9	755.0	757.2	759.5	761.0	761.6	762.4	763.2	763.9	765.9	767.8
122.5°	803.8	805.6	807.4	809.3	810.6	811.6	812.5	813.5	814.4	815.8	817.2
125°	874.3	876.3	878.3	880.3	881.8	882.7	883.7	884.7	885.7	886.1	886.7
127.5°	942.5	944.5	946.5	948.5	950.0	951.2	952.4	953.6	954.8	955.5	956.3
130°	985.1	987.1	989.0	991.0	992.5	993.4	994.5	995.4	996.3	997.4	998.3
132.5°	1025.8	1027.8	1029.8	1031.7	1033.1	1033.9	1034.7	1035.4	1036.2	1037.2	1038.2
135°	1087.5	1089.0	1090.5	1092.0	1093.2	1094.2	1095.2	1096.1	1097.2	1097.9	1098.6
137.5°	1141.1	1143.0	1144.8	1146.7	1147.9	1148.4	1149.0	1149.5	1150.0	1151.2	1152.4
140°	1176.1	1177.6	1179.1	1180.5	1181.6	1182.4	1183.1	1183.9	1184.6	1185.6	1186.5
142.5°	1208.8	1210.4	1211.9	1213.3	1214.4	1215.1	1215.9	1216.6	1217.4	1218.1	1218.9
145°	1255.0	1256.7	1258.4	1260.2	1261.2	1261.7	1262.2	1262.7	1263.2	1263.7	1264.2
147.5°	1297.5	1298.6	1299.8	1301.0	1301.7	1302.3	1302.7	1303.2	1303.7	1304.2	1304.7
150°	1323.7	1324.5	1325.2	1325.9	1326.5	1327.1	1327.5	1328.0	1328.5	1329.0	1329.5
152.5°	1347.2	1347.6	1347.9	1348.2	1348.6	1348.9	1349.2	1349.4	1349.8	1350.7	1351.5
155°	1380.1	1379.6	1379.1	1378.5	1378.5	1378.7	1379.0	1379.2	1379.4	1380.7	1381.9
157.5°	1406.6	1406.6	1406.5	1406.4	1406.4	1406.1	1405.8	1405.6	1405.3	1406.8	1408.3
160°	1422.4	1422.1	1421.9	1421.6	1421.4	1421.2	1420.9	1420.6	1420.4	1421.9	1423.3
162.5°	1437.0	1436.4	1435.7	1435.1	1434.7	1434.4	1434.2	1433.9	1433.7	1435.4	1437.0
165°	1455.1	1454.3	1453.6	1452.9	1452.4	1452.2	1451.9	1451.6	1451.4	1453.4	1455.3
167.5°	1469.0	1468.0	1467.1	1466.0	1465.6	1465.6	1465.6	1465.6	1465.6	1467.6	1469.6
170°	1477.0	1476.0	1475.1	1474.0	1473.5	1473.5	1473.5	1473.5	1473.5	1475.5	1477.5
172.5°	1482.1	1480.9	1479.7	1478.6	1478.1	1478.3	1478.5	1478.7	1478.9	1480.8	1482.8
175°	1488.9	1487.7	1486.4	1485.2	1484.7	1485.0	1485.2	1485.5	1485.7	1487.5	1489.2
177.5°	1490.9	1490.0	1489.0	1488.0	1487.6	1487.8	1488.0	1488.2	1488.4	1490.0	1491.5
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1443.7	1443.7	1445.6	1452.7	1453.6	1459.7	1457.8
5°	1586.7	1597.8	1602.0	1619.5	1630.0	1634.8	1625.4
7.5°	1761.6	1792.9	1807.8	1826.3	1842.5	1847.4	1834.7
10°	1889.0	1921.8	1949.4	1966.4	1982.2	1992.8	2006.2
12.5°	2012.3	2052.6	2078.8	2102.8	2119.1	2132.4	2134.7
15°	2146.3	2207.3	2253.5	2287.5	2304.5	2313.2	2309.8
17.5°	2281.4	2337.9	2370.8	2405.5	2429.1	2430.3	2430.9
20°	2357.8	2412.9	2451.0	2476.8	2503.1	2502.0	2507.8
22.5°	2408.9	2452.3	2481.5	2500.2	2509.2	2504.7	2505.9
25°	2432.8	2445.7	2440.4	2410.5	2403.0	2375.4	2380.1
27.5°	2309.5	2248.6	2185.6	2104.5	2040.5	1989.3	1991.9
30°	2142.2	2034.4	1911.3	1808.2	1715.6	1689.9	1634.8
32.5°	1908.3	1746.5	1602.4	1506.3	1426.8	1405.3	1357.3
35°	1511.7	1354.7	1206.4	1117.4	1082.2	1033.0	1032.4
37.5°	1175.0	1036.7	958.4	891.6	856.5	826.7	823.8
40°	988.5	880.6	821.5	773.4	738.9	716.6	711.4
42.5°	858.2	770.9	715.6	685.8	659.2	647.7	639.1
45°	700.8	642.2	603.5	576.5	564.3	555.4	550.8
47.5°	586.2	546.9	520.6	502.7	492.7	483.4	485.9
50°	523.8	491.6	472.3	455.3	447.6	441.2	441.8
52.5°	473.6	444.7	429.1	416.8	407.3	402.8	400.5
55°	401.9	383.7	368.0	359.2	353.9	347.5	345.7
57.5°	342.9	328.8	315.9	306.0	304.7	298.5	299.3
60°	303.5	291.8	281.3	276.0	271.9	266.6	268.4
62.5°	271.2	261.3	251.8	247.4	243.3	239.4	240.2
65°	222.1	212.7	206.8	204.5	202.8	201.0	199.2
67.5°	176.9	171.3	167.6	162.6	158.9	158.3	156.5
70°	148.9	141.2	134.7	128.3	126.6	126.0	126.6
72.5°	119.3	114.5	112.7	109.6	109.3	107.7	108.7
75°	89.6	87.9	86.7	84.4	84.4	84.4	84.4
77.5°	66.1	65.0	64.3	63.9	63.3	62.4	62.3
80°	51.6	51.0	49.8	49.8	49.2	49.8	49.2
82.5°	38.9	38.8	37.6	37.6	37.0	36.7	37.0
85°	19.9	19.4	20.5	19.4	19.9	18.8	19.9
87.5°	11.5	11.7	11.4	11.5	11.1	12.1	11.4
90°	29.5	30.5	31.3	31.8	32.2	32.7	33.2
92.5°	33.1	34.6	35.6	35.9	36.2	36.4	36.8
95°	39.5	41.2	42.1	42.1	42.1	42.1	42.1
97.5°	41.6	43.5	44.6	44.9	45.1	45.4	45.6
100°	42.4	44.4	45.5	45.7	46.0	46.2	46.5
102.5°	54.5	48.5	45.6	46.1	46.5	46.9	47.4
105°	111.8	68.3	46.8	47.3	47.7	48.2	48.7
107.5°	348.6	316.7	284.3	251.5	218.6	185.8	153.0
110°	474.9	466.8	445.1	410.0	374.8	339.7	304.4



TEST NUMBER: P332462-935

CATALOG NUMBER: S123RDIW-S1000D1320U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	555.5	555.7	552.1	544.6	537.2	529.8	522.4
115°	642.8	645.3	647.0	648.0	649.0	650.0	651.0
117.5°	719.3	721.3	722.4	722.6	722.7	723.0	723.2
120°	769.8	771.8	772.7	772.7	772.7	772.7	772.7
122.5°	818.6	819.9	820.7	820.9	821.0	821.3	821.5
125°	887.2	887.6	888.1	888.6	889.2	889.6	890.1
127.5°	957.1	957.9	958.0	957.6	957.1	956.6	956.1
130°	999.4	1000.3	1000.6	1000.1	999.6	999.1	998.6
132.5°	1039.2	1040.2	1040.3	1039.7	1039.0	1038.3	1037.6
135°	1099.3	1100.1	1100.1	1099.3	1098.6	1097.9	1097.2
137.5°	1153.6	1154.8	1155.1	1154.6	1154.2	1153.7	1153.1
140°	1187.6	1188.5	1188.8	1188.3	1187.7	1187.3	1186.8
142.5°	1219.7	1220.6	1220.6	1219.9	1219.2	1218.5	1217.8
145°	1264.6	1265.2	1265.4	1265.4	1265.4	1265.4	1265.4
147.5°	1305.2	1305.7	1305.4	1304.2	1303.1	1302.0	1300.8
150°	1330.0	1330.5	1330.3	1329.6	1328.9	1328.2	1327.4
152.5°	1352.5	1353.3	1353.2	1352.0	1350.9	1349.8	1348.7
155°	1383.1	1384.4	1384.2	1382.8	1381.3	1379.8	1378.4
157.5°	1409.8	1411.3	1411.0	1409.1	1407.2	1405.2	1403.3
160°	1424.9	1426.3	1426.2	1424.4	1422.7	1421.0	1419.3
162.5°	1438.7	1440.4	1440.5	1438.9	1437.4	1435.9	1434.3
165°	1457.3	1459.3	1459.4	1457.7	1456.0	1454.2	1452.5
167.5°	1471.4	1473.4	1473.4	1471.4	1469.6	1467.6	1465.6
170°	1479.5	1481.4	1481.4	1479.5	1477.5	1475.5	1473.5
172.5°	1484.8	1486.8	1486.6	1484.5	1482.3	1480.1	1478.0
175°	1490.9	1492.6	1492.5	1490.6	1488.6	1486.6	1484.6
177.5°	1493.1	1494.7	1494.5	1492.5	1490.6	1488.6	1486.6
180°	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1	1490.1

(END OF REPORT)