

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: P332463-940

Luminaire Tested: **S123RDIW-S1000D1320U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332463-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7613.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

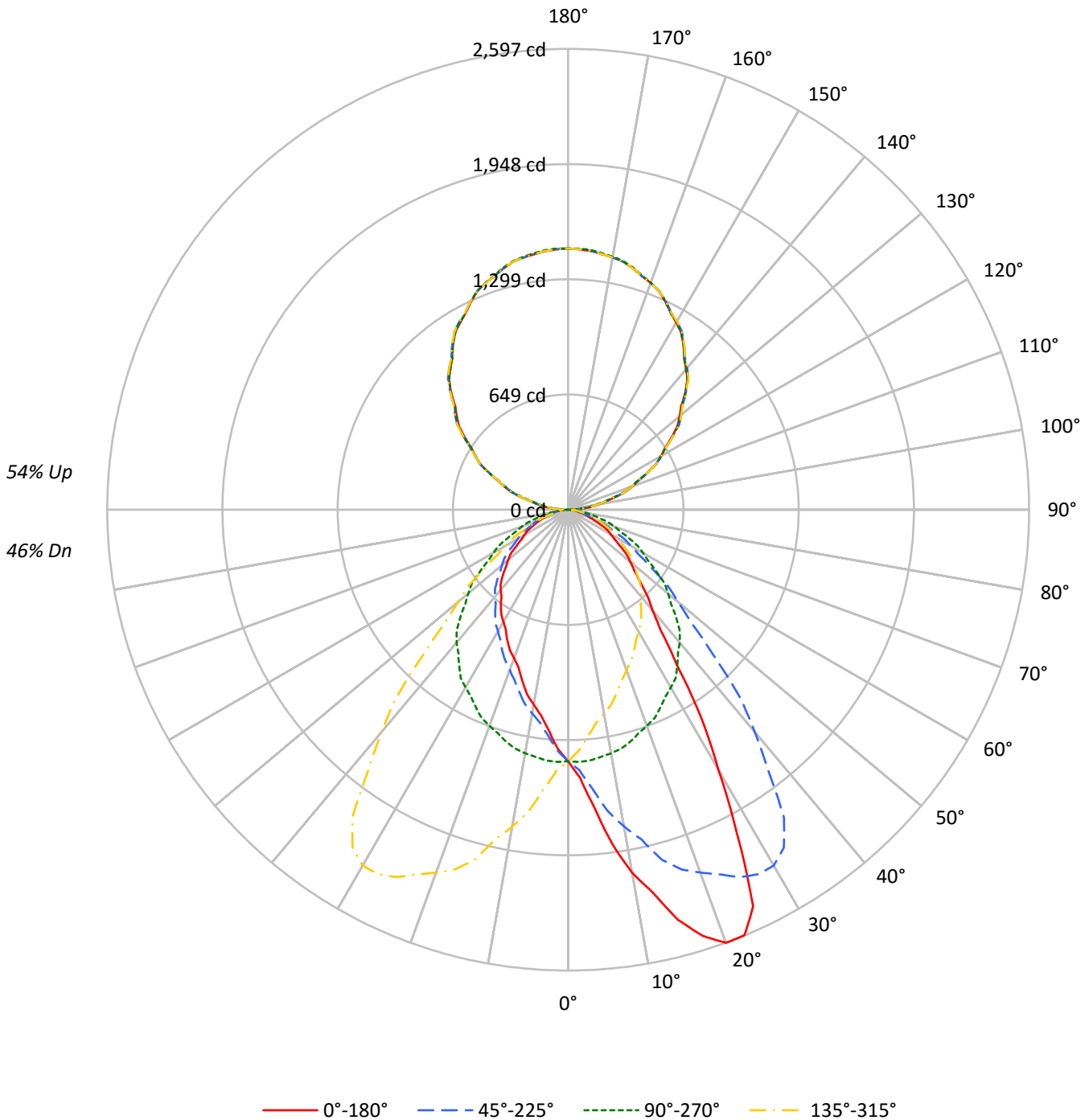
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

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	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	29	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15259	15259	15259	15259
5°	18189	15324	13493	15324
10°	22710	15235	12191	15235
15°	26658	15081	11117	15081
20°	29751	14848	10204	14848
25°	29276	14602	9644	14602
30°	21044	14375	9066	14375
35°	14051	14082	8692	14082
40°	10352	13728	8304	13728
45°	8683	13108	7926	13108
50°	7661	12295	7398	12295
55°	6718	11365	6673	11365
60°	5983	10478	6114	10478
65°	5254	9521	5687	9521
70°	4126	8670	5196	8670
75°	3635	7573	4741	7573
80°	3161	6434	4668	6434
85°	2544	5175	4940	5175



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.8
10°-20°	435.5	5.7
20°-30°	684.2	9.0
30°-40°	713.8	9.4
40°-50°	610.9	8.0
50°-60°	465.6	6.1
60°-70°	298.4	3.9
70°-80°	143.6	1.9
80°-90°	42.3	0.6
90°-100°	95.9	1.3
100°-110°	287.1	3.8
110°-120°	488.2	6.4
120°-130°	642.2	8.4
130°-140°	721.9	9.5
140°-150°	709.6	9.3
150°-160°	597.3	7.8
160°-170°	397.6	5.2
170°-180°	139.2	1.8
0°-30°	1259.1	16.5
0°-40°	1973.0	25.9
0°-60°	3049.5	40.1
0°-90°	3533.9	46.4
90°-120°	871.3	11.4
90°-150°	2944.9	38.7
90°-180°	4079.0	53.6
0°-180°	7613.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1683	1418	1249	1418	1683	174
15°	2392	1353	998	1353	2392	678
25°	2465	1230	812	1230	2465	1059
35°	1069	1072	662	1072	1069	701
45°	570	861	521	861	570	449
55°	358	606	356	606	358	324
65°	206	374	223	374	206	203
75°	87	182	114	182	87	94
85°	21	42	40	42	21	25
90°	35	1	35	1	35	18
95°	90	68	90	68	90	93
105°	275	260	275	260	275	292
115°	493	492	493	492	493	488
125°	711	719	711	719	711	636
135°	932	933	932	933	932	717
145°	1132	1132	1132	1132	1132	707
155°	1294	1296	1294	1296	1294	596
165°	1408	1412	1408	1412	1408	397
175°	1463	1469	1463	1469	1463	139
180°	1472	1472	1472	1472	1472	



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1509.8	1511.7	1505.5	1504.5	1497.2	1495.2	1495.2	1485.1	1478.7	1470.5	1465.6
5°	1683.4	1693.1	1688.2	1677.3	1659.1	1654.8	1643.3	1625.1	1604.5	1579.0	1566.8
7.5°	1900.1	1913.3	1908.3	1891.4	1872.3	1856.9	1824.4	1794.2	1751.9	1714.7	1682.9
10°	2077.8	2063.9	2052.9	2036.6	2018.9	1990.4	1956.4	1909.7	1855.7	1813.2	1765.9
12.5°	2210.8	2208.5	2194.7	2177.8	2152.9	2125.8	2084.1	2027.2	1964.4	1903.1	1848.9
15°	2392.2	2395.8	2386.7	2369.1	2333.9	2286.0	2222.9	2199.2	2109.3	2042.6	1975.9
17.5°	2517.7	2516.9	2515.7	2491.4	2455.4	2421.3	2362.8	2300.5	2219.2	2125.1	2035.2
20°	2597.3	2591.2	2592.4	2565.1	2538.4	2498.9	2442.0	2351.5	2284.7	2176.1	2083.3
22.5°	2595.3	2594.1	2598.7	2589.3	2570.0	2539.8	2494.8	2418.5	2333.3	2223.7	2119.2
25°	2465.0	2460.1	2488.7	2496.5	2527.5	2532.9	2519.6	2477.7	2397.0	2284.1	2154.9
27.5°	2063.0	2060.3	2113.3	2179.5	2263.5	2328.8	2391.9	2422.4	2397.0	2316.2	2186.7
30°	1693.1	1750.2	1776.8	1872.7	1979.5	2106.9	2218.6	2324.8	2350.9	2315.7	2209.5
32.5°	1405.7	1455.5	1477.7	1560.0	1659.6	1808.8	1976.4	2126.7	2232.9	2259.9	2195.9
35°	1069.3	1069.9	1120.8	1157.3	1249.5	1403.0	1565.7	1767.1	1967.4	2119.1	2134.8
37.5°	853.2	856.2	887.1	923.4	992.6	1073.7	1216.9	1384.5	1615.8	1848.7	1985.2
40°	736.7	742.2	765.3	801.0	850.8	912.0	1023.8	1181.5	1374.5	1633.6	1845.4
42.5°	661.9	670.8	682.7	710.2	741.1	798.4	888.8	1010.7	1186.2	1431.2	1675.5
45°	570.4	575.2	584.4	597.1	625.0	665.1	725.8	807.7	953.3	1150.6	1395.1
47.5°	503.2	500.6	510.2	520.6	539.1	566.4	607.1	674.0	777.8	936.1	1143.5
50°	457.5	456.9	463.6	471.5	489.1	509.2	542.5	592.9	675.4	806.5	996.4
52.5°	414.8	417.1	421.9	431.7	444.4	460.6	490.5	526.8	597.7	710.9	869.2
55°	358.0	359.9	366.5	372.0	381.1	397.4	416.3	446.7	495.2	574.1	704.5
57.5°	310.0	309.2	315.6	316.9	327.2	340.5	355.1	378.7	413.8	472.5	560.4
60°	277.9	276.1	281.6	285.8	291.3	302.2	314.3	337.4	365.3	408.4	483.7
62.5°	248.8	248.0	252.0	256.2	260.7	270.6	280.9	298.5	320.7	357.0	416.7
65°	206.3	208.1	210.0	211.8	214.2	220.3	230.0	242.1	257.3	282.8	325.8
67.5°	162.1	164.0	164.6	168.4	173.5	177.4	183.2	194.0	204.6	226.1	250.7
70°	131.1	130.5	131.1	132.9	139.6	146.2	154.2	162.0	168.7	183.9	204.5
72.5°	112.6	111.6	113.2	113.5	116.7	118.6	123.6	131.0	139.6	149.9	164.7
75°	87.4	87.4	87.4	87.4	89.8	91.0	92.8	94.7	97.7	102.5	113.5
77.5°	64.6	64.6	65.5	66.2	66.6	67.3	68.5	70.3	71.3	73.9	78.6
80°	51.0	51.5	51.0	51.5	51.5	52.8	53.4	55.2	55.8	58.9	60.7
82.5°	38.3	38.0	38.3	39.0	39.0	40.2	40.3	41.6	41.7	43.3	45.1
85°	20.6	19.4	20.6	20.1	21.2	20.1	20.6	21.8	21.8	22.5	24.9
87.5°	11.8	12.7	11.6	11.9	11.9	12.2	12.0	11.8	12.6	11.9	11.7
90°	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8	28.8	27.7	24.4
92.5°	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0	45.2	44.4	42.5
95°	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7	86.6	85.6	83.6
97.5°	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3	135.1	133.9	132.4
100°	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6	170.8	170.0	168.7
102.5°	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2	211.5	210.7	209.0
105°	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0	273.0	273.0	270.6
107.5°	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7	337.9	337.0	336.1
110°	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5	381.6	380.5	380.0



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4	425.3	424.0	423.9
115°	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2	492.9	492.7	493.2
117.5°	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6	560.6	560.7	561.3
120°	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5	605.7	606.0	607.3
122.5°	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9	651.6	652.3	652.9
125°	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5	719.5	720.5	721.0
127.5°	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2	786.6	788.1	788.6
130°	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5	830.5	831.5	832.3
132.5°	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5	873.8	875.0	875.6
135°	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0	938.1	939.1	939.3
137.5°	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1	1001.1	1002.3	1001.6
140°	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8
142.5°	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4	1080.7	1080.9	1080.4
145°	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5	1137.7	1138.0	1137.3
147.5°	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8	1224.8	1224.8	1224.2
152.5°	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2	1254.8	1254.4	1254.1
155°	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7	1298.7	1297.6	1297.4
157.5°	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9	1336.9	1335.8	1335.6
160°	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5	1360.2	1358.9	1358.9
162.5°	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7	1382.4	1381.1	1380.9
165°	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8	1410.2	1408.6	1408.6
167.5°	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3	1431.1
170°	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3	1443.3
172.5°	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7	1455.1	1453.5	1453.5
175°	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2	1465.7	1464.2	1464.2
177.5°	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9	1470.7	1469.5	1469.5
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1463.7	1462.2	1455.5	1447.7	1437.4	1430.7	1425.3	1422.5	1413.7	1403.0	1395.7
5°	1554.1	1535.9	1516.5	1492.8	1471.0	1448.5	1434.6	1418.2	1398.1	1375.7	1359.9
7.5°	1651.0	1615.2	1576.8	1537.1	1497.9	1462.8	1431.6	1405.1	1373.1	1341.0	1318.4
10°	1725.3	1673.0	1619.1	1563.8	1513.4	1466.2	1429.7	1393.9	1355.7	1318.7	1290.8
12.5°	1792.7	1724.0	1661.8	1593.9	1529.5	1472.9	1420.5	1378.4	1332.4	1292.9	1261.1
15°	1878.1	1807.8	1732.5	1629.3	1543.8	1472.2	1408.5	1353.3	1297.4	1248.8	1217.9
17.5°	1958.0	1852.1	1751.0	1664.9	1553.7	1464.3	1386.5	1320.4	1259.2	1207.7	1169.7
20°	1991.0	1888.5	1778.6	1668.8	1559.6	1459.5	1369.0	1296.2	1232.5	1174.2	1139.1
22.5°	2010.9	1894.8	1779.1	1661.1	1545.0	1441.0	1351.6	1271.5	1202.4	1147.0	1103.6
25°	2034.1	1895.8	1768.4	1651.8	1533.5	1420.6	1314.4	1229.5	1154.9	1095.9	1049.8
27.5°	2049.4	1886.7	1736.1	1606.5	1486.5	1374.1	1276.8	1186.7	1111.0	1048.7	999.3
30°	2052.4	1879.4	1711.3	1571.1	1449.1	1345.9	1242.8	1156.6	1076.6	1010.4	964.3
32.5°	2056.2	1861.4	1677.8	1528.8	1404.0	1301.8	1208.4	1126.1	1044.0	978.8	931.7
35°	2040.2	1851.5	1626.9	1455.8	1330.8	1231.9	1147.5	1071.7	991.0	927.8	879.9
37.5°	1971.2	1812.0	1574.2	1373.5	1242.8	1151.2	1082.4	1016.4	942.3	874.2	829.0
40°	1901.8	1773.2	1533.5	1323.5	1187.0	1092.9	1031.0	977.0	905.4	841.7	793.2
42.5°	1798.4	1720.3	1494.7	1271.0	1123.8	1033.2	981.0	930.4	867.5	802.8	757.2
45°	1608.7	1619.1	1415.1	1187.6	1036.4	945.5	896.3	861.1	805.3	751.9	705.2
47.5°	1370.8	1467.3	1321.8	1098.6	944.3	858.9	815.9	785.2	747.6	695.2	652.6
50°	1215.5	1353.3	1247.1	1038.9	886.6	801.6	759.1	734.2	701.5	660.2	619.6
52.5°	1072.3	1220.2	1156.7	972.4	823.9	746.3	704.8	684.3	658.3	619.5	582.6
55°	874.4	1024.3	1009.8	872.0	730.0	660.2	628.7	605.6	588.0	558.9	529.8
57.5°	707.3	849.4	856.9	760.4	647.3	578.3	551.2	533.8	522.3	500.2	473.3
60°	602.0	732.5	758.0	685.1	588.0	527.4	500.6	486.7	477.6	459.9	439.3
62.5°	514.6	625.6	654.5	602.1	531.2	474.4	453.5	440.1	433.9	418.7	400.6
65°	393.9	486.1	514.0	484.8	447.8	402.3	385.3	373.8	368.4	359.9	346.5
67.5°	296.1	363.4	394.0	373.4	360.1	331.4	320.6	314.3	309.5	303.6	292.5
70°	237.9	287.7	319.2	313.7	302.8	287.7	279.7	275.5	270.6	265.8	256.1
72.5°	191.3	225.5	255.1	257.9	249.0	245.9	239.0	237.2	234.3	228.5	223.1
75°	126.8	150.5	171.1	179.1	182.6	185.7	182.6	182.1	181.5	176.6	173.5
77.5°	83.1	95.9	108.9	122.3	128.0	132.2	133.1	135.4	133.8	131.2	129.7
80°	63.8	66.8	75.9	87.4	96.5	100.1	102.5	103.8	103.2	102.5	100.1
82.5°	46.3	48.8	53.1	61.2	68.8	74.9	76.3	76.1	77.4	77.8	75.9
85°	24.9	25.5	26.7	27.9	32.2	38.9	40.7	41.9	43.1	43.1	39.4
87.5°	11.9	10.8	11.1	10.5	11.5	11.4	13.8	15.8	16.8	15.3	15.9
90°	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2	3.7	6.3	8.8
92.5°	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0	29.7	31.5	33.3
95°	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2	70.0	71.9	73.7
97.5°	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2	122.5	123.9	125.2
100°	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3	158.8	160.3	161.9
102.5°	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9	199.8	200.8	201.7
105°	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2	260.7	261.3	261.7
107.5°	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4	331.8	332.1	332.4
110°	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9	376.4	376.9	377.4



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1	422.4	422.8	423.0
115°	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5	492.3	493.0	493.8
117.5°	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4	561.9	562.4	562.9
120°	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8	606.4	608.0	609.5
122.5°	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2	651.3	652.5	653.6
125°	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3	720.1	720.9	721.7
127.5°	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2	784.9	786.5	788.1
130°	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7	827.8	829.9	832.0
132.5°	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3	870.4	872.4	874.5
135°	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4	934.9	936.4	937.9
137.5°	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5	994.7	996.0	997.3
140°	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1	1036.3	1037.7	1038.9
142.5°	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0	1074.3	1075.6	1076.9
145°	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2	1132.7	1133.3	1133.8
147.5°	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0	1185.0	1185.9	1186.9
150°	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1	1220.7	1221.2	1221.6
152.5°	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7	1250.4	1251.2	1251.9
155°	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2	1336.0	1335.6	1335.3
160°	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2	1360.8	1360.2	1359.7
162.5°	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4	1382.7	1382.0	1381.3
165°	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1	1411.3	1410.6	1409.8
167.5°	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0	1434.0	1433.0	1431.9
170°	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0	1447.0	1445.9	1444.9
172.5°	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1	1457.1	1456.1	1455.1
175°	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8	1467.8	1466.8	1465.7
177.5°	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2	1472.4	1471.5	1470.7
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1393.3	1387.0	1382.6	1372.9	1366.6	1359.8	1353.0	1357.4	1356.9	1356.4	1356.4
5°	1346.6	1332.6	1319.9	1303.5	1293.2	1280.4	1270.7	1269.5	1271.9	1263.5	1258.6
7.5°	1300.2	1281.1	1263.1	1245.0	1225.8	1210.5	1201.0	1196.4	1190.3	1185.0	1179.6
10°	1267.7	1245.3	1227.6	1205.1	1184.5	1166.4	1154.9	1146.9	1142.6	1138.4	1130.5
12.5°	1234.2	1212.2	1189.8	1164.4	1144.8	1123.6	1115.0	1106.2	1098.1	1093.2	1082.4
15°	1185.2	1156.6	1133.0	1106.3	1084.4	1063.8	1051.7	1034.0	1031.6	1025.6	1014.7
17.5°	1136.0	1105.0	1072.4	1052.7	1028.0	1006.5	988.0	982.1	964.7	958.2	948.7
20°	1097.2	1068.6	1043.7	1017.7	981.9	961.8	947.3	939.4	925.4	916.9	910.9
22.5°	1063.6	1034.7	1005.9	975.4	945.9	923.5	912.8	900.5	892.9	881.0	874.4
25°	1015.8	984.3	949.7	916.9	895.7	878.7	861.7	850.8	839.9	834.4	822.2
27.5°	960.3	927.3	894.9	870.0	844.0	827.2	811.8	802.1	789.0	779.8	773.1
30°	929.7	890.8	862.9	840.4	807.1	791.3	779.8	767.7	758.0	748.2	741.5
32.5°	894.2	858.8	832.3	804.6	778.9	761.7	746.8	736.1	727.8	718.6	711.9
35°	838.7	809.0	781.6	753.7	734.9	717.3	699.7	690.5	682.7	674.2	668.2
37.5°	788.4	760.6	734.7	708.2	684.8	670.6	656.4	649.4	638.7	633.0	626.9
40°	757.3	730.0	702.1	676.6	652.4	641.4	628.7	618.4	608.7	604.4	597.7
42.5°	723.4	696.1	672.5	645.1	625.2	610.4	598.6	587.3	580.1	573.8	570.1
45°	673.0	648.7	625.6	598.3	579.5	566.8	553.4	543.1	536.5	532.2	525.5
47.5°	624.1	599.8	576.4	552.6	534.4	519.8	506.5	499.3	490.4	485.3	480.7
50°	588.6	566.8	541.9	520.0	501.9	487.3	476.4	467.3	459.4	452.7	449.7
52.5°	556.1	532.8	511.3	491.0	471.7	455.2	445.3	435.7	429.8	422.1	418.6
55°	502.5	480.0	461.8	441.8	422.9	409.0	396.9	388.3	382.3	373.8	369.0
57.5°	452.1	431.9	410.2	392.9	373.4	361.7	351.6	340.1	332.7	326.0	321.3
60°	418.1	395.0	376.2	359.9	342.9	327.7	318.6	309.5	301.6	294.9	290.7
62.5°	382.6	362.6	344.6	326.8	311.3	298.1	287.5	279.9	273.0	268.7	264.5
65°	328.3	312.5	294.4	279.7	265.2	255.5	247.0	240.3	235.4	232.4	228.8
67.5°	278.3	263.0	247.1	232.8	223.1	215.7	210.1	204.4	202.0	198.0	195.6
70°	245.8	230.0	216.1	205.1	195.4	189.9	186.3	182.1	179.6	174.8	172.4
72.5°	210.4	198.9	188.9	179.9	172.1	167.1	162.5	157.3	153.4	148.0	145.6
75°	165.7	155.3	147.5	141.4	136.5	129.8	123.1	117.7	115.9	114.0	113.5
77.5°	122.7	116.2	110.5	105.3	99.2	94.4	93.0	91.8	91.4	90.4	90.4
80°	96.5	90.4	86.1	80.1	76.4	76.4	76.4	75.3	75.9	75.9	75.9
82.5°	71.7	66.2	63.8	61.6	60.9	61.4	61.4	61.6	61.3	62.2	61.8
85°	37.0	37.6	38.9	38.3	38.9	38.9	40.0	39.4	40.0	38.9	40.0
87.5°	15.9	17.9	19.1	20.2	21.4	21.6	22.3	22.5	23.2	23.4	23.5
90°	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8	30.9	31.8	32.6
92.5°	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0	46.9	47.7	48.0
95°	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7	88.6	89.7	90.2
97.5°	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3	137.5	138.7	139.2
100°	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6	172.3	173.1	173.7
102.5°	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2	213.0	213.8	214.1
105°	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0	273.0	273.0	273.2
107.5°	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7	339.5	340.3	340.5
110°	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5	383.6	384.6	384.9



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4	427.7	428.9	429.4
115°	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2	493.5	493.7	493.7
117.5°	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6	560.5	560.4	560.1
120°	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5	605.3	605.0	604.6
122.5°	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9	650.2	649.6	648.9
125°	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5	717.5	716.4	715.4
127.5°	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2	783.7	782.3	781.0
130°	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5	828.5	827.4	826.0
132.5°	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5	871.3	870.1	868.8
135°	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0	936.0	935.0	934.2
137.5°	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1	999.0	997.9	996.9
140°	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.0
142.5°	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4	1080.1	1079.9	1079.1
145°	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5	1137.3	1137.0	1136.4
147.5°	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4	1191.4	1191.4	1190.7
150°	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8	1224.8	1224.8	1224.0
152.5°	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2	1255.6	1256.0	1255.5
155°	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7	1300.7	1301.7	1301.4
157.5°	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9	1339.0	1340.2	1339.9
160°	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5	1362.8	1364.1	1364.2
162.5°	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7	1385.0	1386.3	1386.1
165°	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8	1413.3	1414.8	1414.7
167.5°	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7
170°	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5
172.5°	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7	1458.3	1459.9	1459.8
175°	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2	1468.8	1470.3	1470.2
177.5°	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9	1473.2	1474.4	1474.4
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1350.6	1350.1	1350.6	1348.6	1350.6	1350.1	1350.6	1356.4	1356.4	1356.9	1357.4
5°	1256.8	1256.2	1254.4	1248.8	1254.4	1256.2	1256.8	1258.6	1263.5	1271.9	1269.5
7.5°	1174.8	1174.0	1168.7	1168.8	1168.7	1174.0	1174.8	1179.6	1185.0	1190.3	1196.4
10°	1126.3	1126.9	1119.6	1115.4	1119.6	1126.9	1126.3	1130.5	1138.4	1142.6	1146.9
12.5°	1079.2	1076.4	1070.6	1065.9	1070.6	1076.4	1079.2	1082.4	1093.2	1098.1	1106.2
15°	1017.1	1011.0	996.4	997.6	996.4	1011.0	1017.1	1014.7	1025.6	1031.6	1034.0
17.5°	943.9	939.4	939.1	930.7	939.1	939.4	943.9	948.7	958.2	964.7	982.1
20°	901.2	898.1	899.3	890.8	899.3	898.1	901.2	910.9	916.9	925.4	939.4
22.5°	867.6	864.6	859.5	856.8	859.5	864.6	867.6	874.4	881.0	892.9	900.5
25°	818.6	813.8	809.0	812.0	809.0	813.8	818.6	822.2	834.4	839.9	850.8
27.5°	769.6	766.0	761.1	760.5	761.1	766.0	769.6	773.1	779.8	789.0	802.1
30°	738.5	734.9	732.5	729.4	732.5	734.9	738.5	741.5	748.2	758.0	767.7
32.5°	706.9	706.2	701.9	701.2	701.9	706.2	706.9	711.9	718.6	727.8	736.1
35°	665.7	662.1	660.8	661.5	660.8	662.1	665.7	668.2	674.2	682.7	690.5
37.5°	626.5	621.6	619.5	617.2	619.5	621.6	626.5	626.9	633.0	638.7	649.4
40°	598.3	593.5	592.3	591.0	592.3	593.5	598.3	597.7	604.4	608.7	618.4
42.5°	566.8	564.8	564.1	562.0	564.1	564.8	566.8	570.1	573.8	580.1	587.3
45°	523.7	523.1	519.4	520.7	519.4	523.1	523.7	525.5	532.2	536.5	543.1
47.5°	478.3	475.6	473.1	474.7	473.1	475.6	478.3	480.7	485.3	490.4	499.3
50°	447.3	446.0	440.6	441.8	440.6	446.0	447.3	449.7	452.7	459.4	467.3
52.5°	416.2	411.5	409.5	408.8	409.5	411.5	416.2	418.6	422.1	429.8	435.7
55°	364.7	359.3	356.9	355.6	356.9	359.3	364.7	369.0	373.8	382.3	388.3
57.5°	314.2	312.7	310.9	312.2	310.9	312.7	314.2	321.3	326.0	332.7	340.1
60°	284.6	284.6	284.6	284.0	284.6	284.6	284.6	290.7	294.9	301.6	309.5
62.5°	261.8	260.3	259.8	260.7	259.8	260.3	261.8	264.5	268.7	273.0	279.9
65°	226.9	226.3	223.9	223.3	223.9	226.3	226.9	228.8	232.4	235.4	240.3
67.5°	194.0	191.9	191.2	190.3	191.2	191.9	194.0	195.6	198.0	202.0	204.4
70°	169.3	168.1	164.4	165.1	164.4	168.1	169.3	172.4	174.8	179.6	182.1
72.5°	142.6	141.4	140.6	139.8	140.6	141.4	142.6	145.6	148.0	153.4	157.3
75°	112.9	112.3	111.6	114.0	111.6	112.3	112.9	113.5	114.0	115.9	117.7
77.5°	90.4	90.4	90.8	89.8	90.8	90.4	90.4	90.4	90.4	91.4	91.8
80°	75.9	75.9	75.3	75.3	75.3	75.9	75.9	75.9	75.9	75.9	75.3
82.5°	60.8	61.3	61.6	60.7	61.6	61.3	60.8	61.8	62.2	61.3	61.6
85°	40.0	39.4	40.7	40.0	40.7	39.4	40.0	40.0	38.9	40.0	39.4
87.5°	24.6	23.7	23.8	24.4	23.8	23.7	24.6	23.5	23.4	23.2	22.5
90°	33.2	33.7	34.2	34.7	34.2	33.7	33.2	32.6	31.8	30.9	29.8
92.5°	47.6	47.3	47.0	46.7	47.0	47.3	47.6	48.0	47.7	46.9	46.0
95°	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	89.7	88.6	87.7
97.5°	139.1	139.0	138.9	138.8	138.9	139.0	139.1	139.2	138.7	137.5	136.3
100°	174.2	174.8	175.3	175.8	175.3	174.8	174.2	173.7	173.1	172.3	171.6
102.5°	214.0	213.9	213.8	213.7	213.8	213.9	214.0	214.1	213.8	213.0	212.2
105°	273.8	274.2	274.7	275.3	274.7	274.2	273.8	273.2	273.0	273.0	273.0
107.5°	340.3	339.9	339.7	339.3	339.7	339.9	340.3	340.5	340.3	339.5	338.7
110°	384.3	383.9	383.3	382.8	383.3	383.9	384.3	384.9	384.6	383.6	382.5



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	429.4	429.3	429.2	429.1	429.2	429.3	429.4	429.4	428.9	427.7	426.4
115°	493.5	493.2	492.9	492.7	492.9	493.2	493.5	493.7	493.7	493.5	493.2
117.5°	559.4	558.7	557.9	557.2	557.9	558.7	559.4	560.1	560.4	560.5	560.6
120°	604.1	603.6	603.1	602.5	603.1	603.6	604.1	604.6	605.0	605.3	605.5
122.5°	648.2	647.5	646.8	646.0	646.8	647.5	648.2	648.9	649.6	650.2	650.9
125°	714.3	713.3	712.3	711.2	712.3	713.3	714.3	715.4	716.4	717.5	718.5
127.5°	779.8	778.6	777.5	776.2	777.5	778.6	779.8	781.0	782.3	783.7	785.2
130°	824.2	822.4	820.6	818.9	820.6	822.4	824.2	826.0	827.4	828.5	829.5
132.5°	867.4	866.0	864.6	863.3	864.6	866.0	867.4	868.8	870.1	871.3	872.5
135°	933.7	933.2	932.6	932.2	932.6	933.2	933.7	934.2	935.0	936.0	937.0
137.5°	996.0	995.0	994.0	993.0	994.0	995.0	996.0	996.9	997.9	999.0	1000.1
140°	1038.2	1036.3	1034.6	1032.8	1034.6	1036.3	1038.2	1040.0	1041.0	1041.3	1041.5
142.5°	1077.6	1076.3	1074.9	1073.5	1074.9	1076.3	1077.6	1079.1	1079.9	1080.1	1080.4
145°	1135.3	1134.3	1133.3	1132.2	1133.3	1134.3	1135.3	1136.4	1137.0	1137.3	1137.5
147.5°	1189.2	1187.6	1186.1	1184.5	1186.1	1187.6	1189.2	1190.7	1191.4	1191.4	1191.4
150°	1222.4	1220.9	1219.3	1217.8	1219.3	1220.9	1222.4	1224.0	1224.8	1224.8	1224.8
152.5°	1254.2	1252.9	1251.5	1250.2	1251.5	1252.9	1254.2	1255.5	1256.0	1255.6	1255.2
155°	1299.6	1297.8	1295.9	1294.1	1295.9	1297.8	1299.6	1301.4	1301.7	1300.7	1299.7
157.5°	1338.5	1337.0	1335.6	1334.2	1335.6	1337.0	1338.5	1339.9	1340.2	1339.0	1337.9
160°	1363.2	1362.2	1361.1	1360.0	1361.1	1362.2	1363.2	1364.2	1364.1	1362.8	1361.5
162.5°	1384.5	1382.8	1381.2	1379.5	1381.2	1382.8	1384.5	1386.1	1386.3	1385.0	1383.7
165°	1412.9	1411.1	1409.3	1407.5	1409.3	1411.1	1412.9	1414.7	1414.8	1413.3	1411.8
167.5°	1436.1	1434.5	1432.9	1431.3	1432.9	1434.5	1436.1	1437.7	1437.7	1436.1	1434.5
170°	1448.8	1447.0	1445.1	1443.3	1445.1	1447.0	1448.8	1450.5	1450.5	1448.8	1447.0
172.5°	1458.0	1456.2	1454.4	1452.6	1454.4	1456.2	1458.0	1459.8	1459.9	1458.3	1456.7
175°	1468.4	1466.6	1464.8	1463.0	1464.8	1466.6	1468.4	1470.2	1470.3	1468.8	1467.2
177.5°	1472.8	1471.4	1470.0	1468.6	1470.0	1471.4	1472.8	1474.4	1474.4	1473.2	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1353.0	1359.8	1366.6	1372.9	1382.6	1387.0	1393.3	1395.7	1403.0	1413.7	1422.5
5°	1270.7	1280.4	1293.2	1303.5	1319.9	1332.6	1346.6	1359.9	1375.7	1398.1	1418.2
7.5°	1201.0	1210.5	1225.8	1245.0	1263.1	1281.1	1300.2	1318.4	1341.0	1373.1	1405.1
10°	1154.9	1166.4	1184.5	1205.1	1227.6	1245.3	1267.7	1290.8	1318.7	1355.7	1393.9
12.5°	1115.0	1123.6	1144.8	1164.4	1189.8	1212.2	1234.2	1261.1	1292.9	1332.4	1378.4
15°	1051.7	1063.8	1084.4	1106.3	1133.0	1156.6	1185.2	1217.9	1248.8	1297.4	1353.3
17.5°	988.0	1006.5	1028.0	1052.7	1072.4	1105.0	1136.0	1169.7	1207.7	1259.2	1320.4
20°	947.3	961.8	981.9	1017.7	1043.7	1068.6	1097.2	1139.1	1174.2	1232.5	1296.2
22.5°	912.8	923.5	945.9	975.4	1005.9	1034.7	1063.6	1103.6	1147.0	1202.4	1271.5
25°	861.7	878.7	895.7	916.9	949.7	984.3	1015.8	1049.8	1095.9	1154.9	1229.5
27.5°	811.8	827.2	844.0	870.0	894.9	927.3	960.3	999.3	1048.7	1111.0	1186.7
30°	779.8	791.3	807.1	840.4	862.9	890.8	929.7	964.3	1010.4	1076.6	1156.6
32.5°	746.8	761.7	778.9	804.6	832.3	858.8	894.2	931.7	978.8	1044.0	1126.1
35°	699.7	717.3	734.9	753.7	781.6	809.0	838.7	879.9	927.8	991.0	1071.7
37.5°	656.4	670.6	684.8	708.2	734.7	760.6	788.4	829.0	874.2	942.3	1016.4
40°	628.7	641.4	652.4	676.6	702.1	730.0	757.3	793.2	841.7	905.4	977.0
42.5°	598.6	610.4	625.2	645.1	672.5	696.1	723.4	757.2	802.8	867.5	930.4
45°	553.4	566.8	579.5	598.3	625.6	648.7	673.0	705.2	751.9	805.3	861.1
47.5°	506.5	519.8	534.4	552.6	576.4	599.8	624.1	652.6	695.2	747.6	785.2
50°	476.4	487.3	501.9	520.0	541.9	566.8	588.6	619.6	660.2	701.5	734.2
52.5°	445.3	455.2	471.7	491.0	511.3	532.8	556.1	582.6	619.5	658.3	684.3
55°	396.9	409.0	422.9	441.8	461.8	480.0	502.5	529.8	558.9	588.0	605.6
57.5°	351.6	361.7	373.4	392.9	410.2	431.9	452.1	473.3	500.2	522.3	533.8
60°	318.6	327.7	342.9	359.9	376.2	395.0	418.1	439.3	459.9	477.6	486.7
62.5°	287.5	298.1	311.3	326.8	344.6	362.6	382.6	400.6	418.7	433.9	440.1
65°	247.0	255.5	265.2	279.7	294.4	312.5	328.3	346.5	359.9	368.4	373.8
67.5°	210.1	215.7	223.1	232.8	247.1	263.0	278.3	292.5	303.6	309.5	314.3
70°	186.3	189.9	195.4	205.1	216.1	230.0	245.8	256.1	265.8	270.6	275.5
72.5°	162.5	167.1	172.1	179.9	188.9	198.9	210.4	223.1	228.5	234.3	237.2
75°	123.1	129.8	136.5	141.4	147.5	155.3	165.7	173.5	176.6	181.5	182.1
77.5°	93.0	94.4	99.2	105.3	110.5	116.2	122.7	129.7	131.2	133.8	135.4
80°	76.4	76.4	76.4	80.1	86.1	90.4	96.5	100.1	102.5	103.2	103.8
82.5°	61.4	61.4	60.9	61.6	63.8	66.2	71.7	75.9	77.8	77.4	76.1
85°	40.0	38.9	38.9	38.3	38.9	37.6	37.0	39.4	43.1	43.1	41.9
87.5°	22.3	21.6	21.4	20.2	19.1	17.9	15.9	15.9	15.3	16.8	15.8
90°	28.8	27.7	24.4	21.0	17.7	14.4	11.4	8.8	6.3	3.7	1.2
92.5°	45.2	44.4	42.5	40.6	38.7	36.8	35.0	33.3	31.5	29.7	28.0
95°	86.6	85.6	83.6	81.5	79.5	77.4	75.4	73.7	71.9	70.0	68.2
97.5°	135.1	133.9	132.4	130.9	129.5	128.0	126.5	125.2	123.9	122.5	121.2
100°	170.8	170.0	168.7	167.5	166.1	164.9	163.5	161.9	160.3	158.8	157.3
102.5°	211.5	210.7	209.0	207.3	205.6	203.9	202.6	201.7	200.8	199.8	198.9
105°	273.0	273.0	270.6	268.3	266.0	263.7	262.3	261.7	261.3	260.7	260.2
107.5°	337.9	337.0	336.1	335.2	334.2	333.3	332.7	332.4	332.1	331.8	331.4
110°	381.6	380.5	380.0	379.5	379.0	378.4	377.9	377.4	376.9	376.4	375.9



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.3	424.0	423.9	423.7	423.7	423.6	423.4	423.0	422.8	422.4	422.1
115°	492.9	492.7	493.2	493.7	494.2	494.7	494.6	493.8	493.0	492.3	491.5
117.5°	560.6	560.7	561.3	562.0	562.7	563.4	563.5	562.9	562.4	561.9	561.4
120°	605.7	606.0	607.3	608.6	609.8	611.2	611.0	609.5	608.0	606.4	604.8
122.5°	651.6	652.3	652.9	653.6	654.2	655.0	654.7	653.6	652.5	651.3	650.2
125°	719.5	720.5	721.0	721.6	722.0	722.6	722.5	721.7	720.9	720.1	719.3
127.5°	786.6	788.1	788.6	789.2	789.8	790.3	789.8	788.1	786.5	784.9	783.2
130°	830.5	831.5	832.3	833.1	833.8	834.6	834.0	832.0	829.9	827.8	825.7
132.5°	873.8	875.0	875.6	876.2	876.7	877.3	876.6	874.5	872.4	870.4	868.3
135°	938.1	939.1	939.3	939.6	939.9	940.1	939.5	937.9	936.4	934.9	933.4
137.5°	1001.1	1002.3	1001.6	1000.9	1000.2	999.6	998.6	997.3	996.0	994.7	993.5
140°	1041.8	1042.1	1041.8	1041.5	1041.3	1041.0	1040.3	1038.9	1037.7	1036.3	1035.1
142.5°	1080.7	1080.9	1080.4	1080.0	1079.5	1079.1	1078.2	1076.9	1075.6	1074.3	1073.0
145°	1137.7	1138.0	1137.3	1136.5	1135.7	1135.0	1134.3	1133.8	1133.3	1132.7	1132.2
147.5°	1191.4	1191.4	1190.7	1190.0	1189.3	1188.6	1187.8	1186.9	1185.9	1185.0	1184.0
150°	1224.8	1224.8	1224.2	1223.7	1223.2	1222.7	1222.2	1221.6	1221.2	1220.7	1220.1
152.5°	1254.8	1254.4	1254.1	1253.7	1253.5	1253.1	1252.6	1251.9	1251.2	1250.4	1249.7
155°	1298.7	1297.6	1297.4	1297.1	1296.8	1296.6	1296.5	1296.5	1296.5	1296.5	1296.5
157.5°	1336.9	1335.8	1335.6	1335.3	1335.2	1335.0	1335.0	1335.3	1335.6	1336.0	1336.2
160°	1360.2	1358.9	1358.9	1358.9	1358.9	1358.9	1359.1	1359.7	1360.2	1360.8	1361.2
162.5°	1382.4	1381.1	1380.9	1380.7	1380.5	1380.3	1380.5	1381.3	1382.0	1382.7	1383.4
165°	1410.2	1408.6	1408.6	1408.6	1408.6	1408.6	1409.1	1409.8	1410.6	1411.3	1412.1
167.5°	1432.9	1431.3	1431.1	1430.9	1430.7	1430.5	1430.9	1431.9	1433.0	1434.0	1435.0
170°	1445.1	1443.3	1443.3	1443.3	1443.3	1443.3	1443.9	1444.9	1445.9	1447.0	1448.0
172.5°	1455.1	1453.5	1453.5	1453.5	1453.5	1453.5	1454.0	1455.1	1456.1	1457.1	1458.1
175°	1465.7	1464.2	1464.2	1464.2	1464.2	1464.2	1464.6	1465.7	1466.8	1467.8	1468.8
177.5°	1470.7	1469.5	1469.5	1469.5	1469.5	1469.5	1469.9	1470.7	1471.5	1472.4	1473.2
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1425.3	1430.7	1437.4	1447.7	1455.5	1462.2	1463.7	1465.6	1470.5	1478.7	1485.1
5°	1434.6	1448.5	1471.0	1492.8	1516.5	1535.9	1554.1	1566.8	1579.0	1604.5	1625.1
7.5°	1431.6	1462.8	1497.9	1537.1	1576.8	1615.2	1651.0	1682.9	1714.7	1751.9	1794.2
10°	1429.7	1466.2	1513.4	1563.8	1619.1	1673.0	1725.3	1765.9	1813.2	1855.7	1909.7
12.5°	1420.5	1472.9	1529.5	1593.9	1661.8	1724.0	1792.7	1848.9	1903.1	1964.4	2027.2
15°	1408.5	1472.2	1543.8	1629.3	1732.5	1807.8	1878.1	1975.9	2042.6	2109.3	2199.2
17.5°	1386.5	1464.3	1553.7	1664.9	1751.0	1852.1	1958.0	2035.2	2125.1	2219.2	2300.5
20°	1369.0	1459.5	1559.6	1668.8	1778.6	1888.5	1991.0	2083.3	2176.1	2284.7	2351.5
22.5°	1351.6	1441.0	1545.0	1661.1	1779.1	1894.8	2010.9	2119.2	2223.7	2333.3	2418.5
25°	1314.4	1420.6	1533.5	1651.8	1768.4	1895.8	2034.1	2154.9	2284.1	2397.0	2477.7
27.5°	1276.8	1374.1	1486.5	1606.5	1736.1	1886.7	2049.4	2186.7	2316.2	2397.0	2422.4
30°	1242.8	1345.9	1449.1	1571.1	1711.3	1879.4	2052.4	2209.5	2315.7	2350.9	2324.8
32.5°	1208.4	1301.8	1404.0	1528.8	1677.8	1861.4	2056.2	2195.9	2259.9	2232.9	2126.7
35°	1147.5	1231.9	1330.8	1455.8	1626.9	1851.5	2040.2	2134.8	2119.1	1967.4	1767.1
37.5°	1082.4	1151.2	1242.8	1373.5	1574.2	1812.0	1971.2	1985.2	1848.7	1615.8	1384.5
40°	1031.0	1092.9	1187.0	1323.5	1533.5	1773.2	1901.8	1845.4	1633.6	1374.5	1181.5
42.5°	981.0	1033.2	1123.8	1271.0	1494.7	1720.3	1798.4	1675.5	1431.2	1186.2	1010.7
45°	896.3	945.5	1036.4	1187.6	1415.1	1619.1	1608.7	1395.1	1150.6	953.3	807.7
47.5°	815.9	858.9	944.3	1098.6	1321.8	1467.3	1370.8	1143.5	936.1	777.8	674.0
50°	759.1	801.6	886.6	1038.9	1247.1	1353.3	1215.5	996.4	806.5	675.4	592.9
52.5°	704.8	746.3	823.9	972.4	1156.7	1220.2	1072.3	869.2	710.9	597.7	526.8
55°	628.7	660.2	730.0	872.0	1009.8	1024.3	874.4	704.5	574.1	495.2	446.7
57.5°	551.2	578.3	647.3	760.4	856.9	849.4	707.3	560.4	472.5	413.8	378.7
60°	500.6	527.4	588.0	685.1	758.0	732.5	602.0	483.7	408.4	365.3	337.4
62.5°	453.5	474.4	531.2	602.1	654.5	625.6	514.6	416.7	357.0	320.7	298.5
65°	385.3	402.3	447.8	484.8	514.0	486.1	393.9	325.8	282.8	257.3	242.1
67.5°	320.6	331.4	360.1	373.4	394.0	363.4	296.1	250.7	226.1	204.6	194.0
70°	279.7	287.7	302.8	313.7	319.2	287.7	237.9	204.5	183.9	168.7	162.0
72.5°	239.0	245.9	249.0	257.9	255.1	225.5	191.3	164.7	149.9	139.6	131.0
75°	182.6	185.7	182.6	179.1	171.1	150.5	126.8	113.5	102.5	97.7	94.7
77.5°	133.1	132.2	128.0	122.3	108.9	95.9	83.1	78.6	73.9	71.3	70.3
80°	102.5	100.1	96.5	87.4	75.9	66.8	63.8	60.7	58.9	55.8	55.2
82.5°	76.3	74.9	68.8	61.2	53.1	48.8	46.3	45.1	43.3	41.7	41.6
85°	40.7	38.9	32.2	27.9	26.7	25.5	24.9	24.9	22.5	21.8	21.8
87.5°	13.8	11.4	11.5	10.5	11.1	10.8	11.9	11.7	11.9	12.6	11.8
90°	3.7	6.3	8.8	11.4	14.4	17.7	21.0	24.4	27.7	28.8	29.8
92.5°	29.7	31.5	33.3	35.0	36.8	38.7	40.6	42.5	44.4	45.2	46.0
95°	70.0	71.9	73.7	75.4	77.4	79.5	81.5	83.6	85.6	86.6	87.7
97.5°	122.5	123.9	125.2	126.5	128.0	129.5	130.9	132.4	133.9	135.1	136.3
100°	158.8	160.3	161.9	163.5	164.9	166.1	167.5	168.7	170.0	170.8	171.6
102.5°	199.8	200.8	201.7	202.6	203.9	205.6	207.3	209.0	210.7	211.5	212.2
105°	260.7	261.3	261.7	262.3	263.7	266.0	268.3	270.6	273.0	273.0	273.0
107.5°	331.8	332.1	332.4	332.7	333.3	334.2	335.2	336.1	337.0	337.9	338.7
110°	376.4	376.9	377.4	377.9	378.4	379.0	379.5	380.0	380.5	381.6	382.5



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	422.4	422.8	423.0	423.4	423.6	423.7	423.7	423.9	424.0	425.3	426.4
115°	492.3	493.0	493.8	494.6	494.7	494.2	493.7	493.2	492.7	492.9	493.2
117.5°	561.9	562.4	562.9	563.5	563.4	562.7	562.0	561.3	560.7	560.6	560.6
120°	606.4	608.0	609.5	611.0	611.2	609.8	608.6	607.3	606.0	605.7	605.5
122.5°	651.3	652.5	653.6	654.7	655.0	654.2	653.6	652.9	652.3	651.6	650.9
125°	720.1	720.9	721.7	722.5	722.6	722.0	721.6	721.0	720.5	719.5	718.5
127.5°	784.9	786.5	788.1	789.8	790.3	789.8	789.2	788.6	788.1	786.6	785.2
130°	827.8	829.9	832.0	834.0	834.6	833.8	833.1	832.3	831.5	830.5	829.5
132.5°	870.4	872.4	874.5	876.6	877.3	876.7	876.2	875.6	875.0	873.8	872.5
135°	934.9	936.4	937.9	939.5	940.1	939.9	939.6	939.3	939.1	938.1	937.0
137.5°	994.7	996.0	997.3	998.6	999.6	1000.2	1000.9	1001.6	1002.3	1001.1	1000.1
140°	1036.3	1037.7	1038.9	1040.3	1041.0	1041.3	1041.5	1041.8	1042.1	1041.8	1041.5
142.5°	1074.3	1075.6	1076.9	1078.2	1079.1	1079.5	1080.0	1080.4	1080.9	1080.7	1080.4
145°	1132.7	1133.3	1133.8	1134.3	1135.0	1135.7	1136.5	1137.3	1138.0	1137.7	1137.5
147.5°	1185.0	1185.9	1186.9	1187.8	1188.6	1189.3	1190.0	1190.7	1191.4	1191.4	1191.4
150°	1220.7	1221.2	1221.6	1222.2	1222.7	1223.2	1223.7	1224.2	1224.8	1224.8	1224.8
152.5°	1250.4	1251.2	1251.9	1252.6	1253.1	1253.5	1253.7	1254.1	1254.4	1254.8	1255.2
155°	1296.5	1296.5	1296.5	1296.5	1296.6	1296.8	1297.1	1297.4	1297.6	1298.7	1299.7
157.5°	1336.0	1335.6	1335.3	1335.0	1335.0	1335.2	1335.3	1335.6	1335.8	1336.9	1337.9
160°	1360.8	1360.2	1359.7	1359.1	1358.9	1358.9	1358.9	1358.9	1358.9	1360.2	1361.5
162.5°	1382.7	1382.0	1381.3	1380.5	1380.3	1380.5	1380.7	1380.9	1381.1	1382.4	1383.7
165°	1411.3	1410.6	1409.8	1409.1	1408.6	1408.6	1408.6	1408.6	1408.6	1410.2	1411.8
167.5°	1434.0	1433.0	1431.9	1430.9	1430.5	1430.7	1430.9	1431.1	1431.3	1432.9	1434.5
170°	1447.0	1445.9	1444.9	1443.9	1443.3	1443.3	1443.3	1443.3	1443.3	1445.1	1447.0
172.5°	1457.1	1456.1	1455.1	1454.0	1453.5	1453.5	1453.5	1453.5	1453.5	1455.1	1456.7
175°	1467.8	1466.8	1465.7	1464.6	1464.2	1464.2	1464.2	1464.2	1464.2	1465.7	1467.2
177.5°	1472.4	1471.5	1470.7	1469.9	1469.5	1469.5	1469.5	1469.5	1469.5	1470.7	1471.9
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6	1417.6
2.5°	1495.2	1495.2	1497.2	1504.5	1505.5	1511.7	1509.8
5°	1643.3	1654.8	1659.1	1677.3	1688.2	1693.1	1683.4
7.5°	1824.4	1856.9	1872.3	1891.4	1908.3	1913.3	1900.1
10°	1956.4	1990.4	2018.9	2036.6	2052.9	2063.9	2077.8
12.5°	2084.1	2125.8	2152.9	2177.8	2194.7	2208.5	2210.8
15°	2222.9	2286.0	2333.9	2369.1	2386.7	2395.8	2392.2
17.5°	2362.8	2421.3	2455.4	2491.4	2515.7	2516.9	2517.7
20°	2442.0	2498.9	2538.4	2565.1	2592.4	2591.2	2597.3
22.5°	2494.8	2539.8	2570.0	2589.3	2598.7	2594.1	2595.3
25°	2519.6	2532.9	2527.5	2496.5	2488.7	2460.1	2465.0
27.5°	2391.9	2328.8	2263.5	2179.5	2113.3	2060.3	2063.0
30°	2218.6	2106.9	1979.5	1872.7	1776.8	1750.2	1693.1
32.5°	1976.4	1808.8	1659.6	1560.0	1477.7	1455.5	1405.7
35°	1565.7	1403.0	1249.5	1157.3	1120.8	1069.9	1069.3
37.5°	1216.9	1073.7	992.6	923.4	887.1	856.2	853.2
40°	1023.8	912.0	850.8	801.0	765.3	742.2	736.7
42.5°	888.8	798.4	741.1	710.2	682.7	670.8	661.9
45°	725.8	665.1	625.0	597.1	584.4	575.2	570.4
47.5°	607.1	566.4	539.1	520.6	510.2	500.6	503.2
50°	542.5	509.2	489.1	471.5	463.6	456.9	457.5
52.5°	490.5	460.6	444.4	431.7	421.9	417.1	414.8
55°	416.3	397.4	381.1	372.0	366.5	359.9	358.0
57.5°	355.1	340.5	327.2	316.9	315.6	309.2	310.0
60°	314.3	302.2	291.3	285.8	281.6	276.1	277.9
62.5°	280.9	270.6	260.7	256.2	252.0	248.0	248.8
65°	230.0	220.3	214.2	211.8	210.0	208.1	206.3
67.5°	183.2	177.4	173.5	168.4	164.6	164.0	162.1
70°	154.2	146.2	139.6	132.9	131.1	130.5	131.1
72.5°	123.6	118.6	116.7	113.5	113.2	111.6	112.6
75°	92.8	91.0	89.8	87.4	87.4	87.4	87.4
77.5°	68.5	67.3	66.6	66.2	65.5	64.6	64.6
80°	53.4	52.8	51.5	51.5	51.0	51.5	51.0
82.5°	40.3	40.2	39.0	39.0	38.3	38.0	38.3
85°	20.6	20.1	21.2	20.1	20.6	19.4	20.6
87.5°	12.0	12.2	11.9	11.9	11.6	12.7	11.8
90°	30.9	31.8	32.6	33.2	33.7	34.2	34.7
92.5°	46.9	47.7	48.0	47.6	47.3	47.0	46.7
95°	88.6	89.7	90.2	90.2	90.2	90.2	90.2
97.5°	137.5	138.7	139.2	139.1	139.0	138.9	138.8
100°	172.3	173.1	173.7	174.2	174.8	175.3	175.8
102.5°	213.0	213.8	214.1	214.0	213.9	213.8	213.7
105°	273.0	273.0	273.2	273.8	274.2	274.7	275.3
107.5°	339.5	340.3	340.5	340.3	339.9	339.7	339.3
110°	383.6	384.6	384.9	384.3	383.9	383.3	382.8



TEST NUMBER: P332463-940

CATALOG NUMBER: S123RDIW-S1000D1320U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	427.7	428.9	429.4	429.4	429.3	429.2	429.1
115°	493.5	493.7	493.7	493.5	493.2	492.9	492.7
117.5°	560.5	560.4	560.1	559.4	558.7	557.9	557.2
120°	605.3	605.0	604.6	604.1	603.6	603.1	602.5
122.5°	650.2	649.6	648.9	648.2	647.5	646.8	646.0
125°	717.5	716.4	715.4	714.3	713.3	712.3	711.2
127.5°	783.7	782.3	781.0	779.8	778.6	777.5	776.2
130°	828.5	827.4	826.0	824.2	822.4	820.6	818.9
132.5°	871.3	870.1	868.8	867.4	866.0	864.6	863.3
135°	936.0	935.0	934.2	933.7	933.2	932.6	932.2
137.5°	999.0	997.9	996.9	996.0	995.0	994.0	993.0
140°	1041.3	1041.0	1040.0	1038.2	1036.3	1034.6	1032.8
142.5°	1080.1	1079.9	1079.1	1077.6	1076.3	1074.9	1073.5
145°	1137.3	1137.0	1136.4	1135.3	1134.3	1133.3	1132.2
147.5°	1191.4	1191.4	1190.7	1189.2	1187.6	1186.1	1184.5
150°	1224.8	1224.8	1224.0	1222.4	1220.9	1219.3	1217.8
152.5°	1255.6	1256.0	1255.5	1254.2	1252.9	1251.5	1250.2
155°	1300.7	1301.7	1301.4	1299.6	1297.8	1295.9	1294.1
157.5°	1339.0	1340.2	1339.9	1338.5	1337.0	1335.6	1334.2
160°	1362.8	1364.1	1364.2	1363.2	1362.2	1361.1	1360.0
162.5°	1385.0	1386.3	1386.1	1384.5	1382.8	1381.2	1379.5
165°	1413.3	1414.8	1414.7	1412.9	1411.1	1409.3	1407.5
167.5°	1436.1	1437.7	1437.7	1436.1	1434.5	1432.9	1431.3
170°	1448.8	1450.5	1450.5	1448.8	1447.0	1445.1	1443.3
172.5°	1458.3	1459.9	1459.8	1458.0	1456.2	1454.4	1452.6
175°	1468.8	1470.3	1470.2	1468.4	1466.6	1464.8	1463.0
177.5°	1473.2	1474.4	1474.4	1472.8	1471.4	1470.0	1468.6
180°	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3	1472.3

(END OF REPORT)