

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: P332447-935

Luminaire Tested: **S123RDIW-S775D1535U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332447-935
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-S775D1535U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7206.0 lumens
Efficiency: N/A
Efficacy: 105.8 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: Semi-Indirect

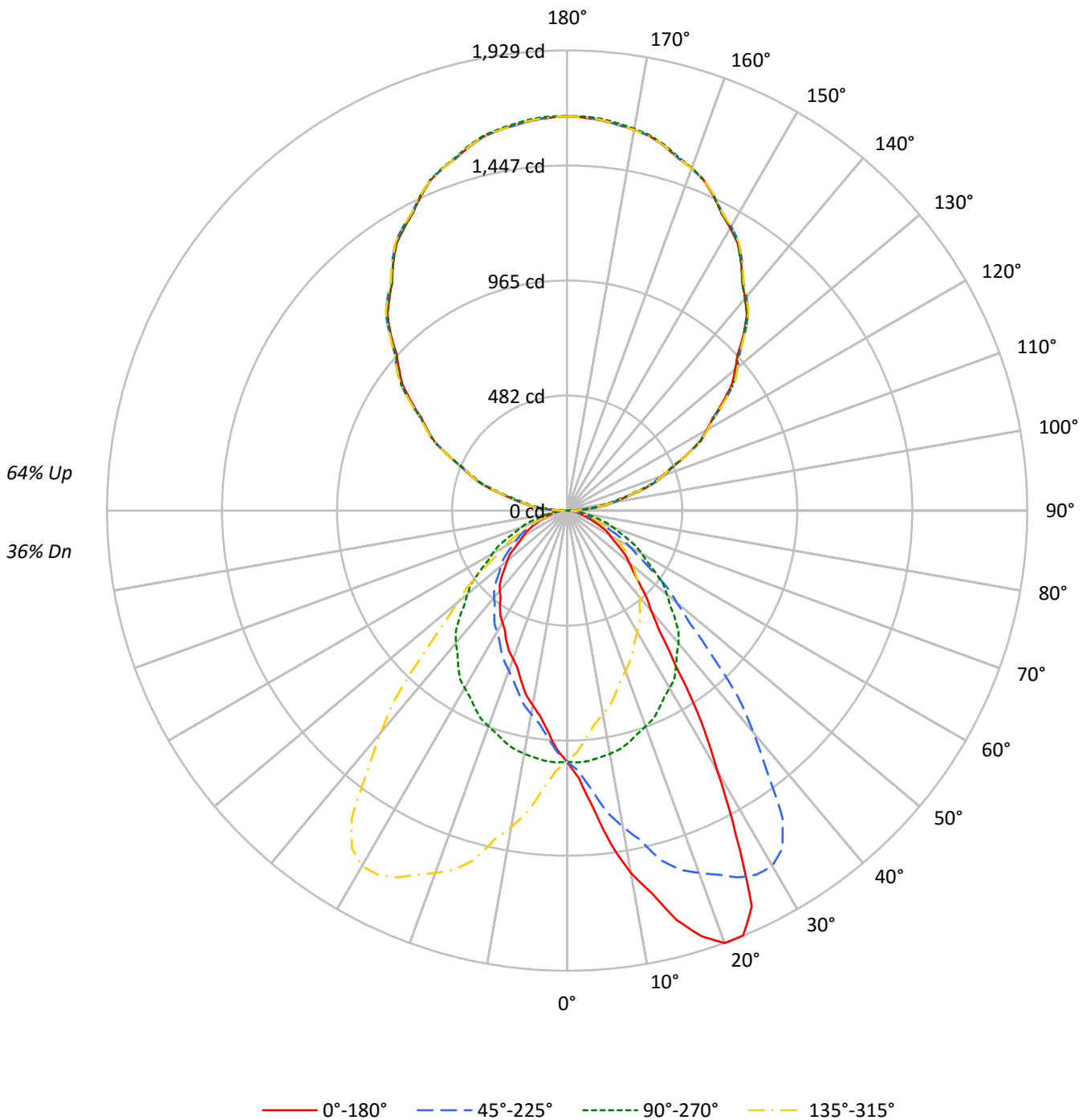
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	31	30	28	23
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	28	26	24	20
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	23	22	18
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	18	22	18	16	17	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11334	11334	11334	11334
5°	13511	11382	10024	11382
10°	16869	11317	9055	11317
15°	19801	11202	8259	11202
20°	22100	11030	7581	11030
25°	21747	10847	7163	10847
30°	15632	10679	6734	10679
35°	10437	10461	6457	10461
40°	7690	10197	6169	10197
45°	6450	9736	5888	9736
50°	5692	9133	5494	9133
55°	4992	8443	4958	8443
60°	4445	7782	4540	7782
65°	3904	7073	4225	7073
70°	3065	6442	3858	6442
75°	2699	5627	3523	5627
80°	2349	4779	3465	4779
85°	1890	3841	3680	3841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	1.4
10°-20°	323.5	4.5
20°-30°	508.3	7.1
30°-40°	530.3	7.4
40°-50°	453.8	6.3
50°-60°	345.9	4.8
60°-70°	221.7	3.1
70°-80°	106.6	1.5
80°-90°	33.1	0.5
90°-100°	107.7	1.5
100°-110°	322.3	4.5
110°-120°	548.1	7.6
120°-130°	721.0	10.0
130°-140°	810.4	11.2
140°-150°	796.6	11.1
150°-160°	670.6	9.3
160°-170°	446.4	6.2
170°-180°	156.3	2.2
0°-30°	935.3	13.0
0°-40°	1465.6	20.3
0°-60°	2265.3	31.4
0°-90°	2626.7	36.5
90°-120°	978.1	13.6
90°-150°	3306.0	45.9
90°-180°	4579.0	63.5
0°-180°	7206.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1053	1053	1053	1053	1053	
5°	1250	1053	928	1053	1250	129
15°	1777	1005	741	1005	1777	504
25°	1831	913	603	913	1831	787
35°	794	796	491	796	794	521
45°	424	640	387	640	424	333
55°	266	450	264	450	266	240
65°	153	278	166	278	153	151
75°	65	135	85	135	65	70
85°	15	31	30	31	15	19
90°	39	1	39	1	39	19
95°	101	77	101	77	101	104
105°	309	292	309	292	309	328
115°	553	552	553	552	553	548
125°	798	808	798	808	798	714
135°	1046	1048	1046	1048	1046	805
145°	1271	1271	1271	1271	1271	793
155°	1453	1455	1453	1455	1453	669
165°	1580	1585	1580	1585	1580	446
175°	1642	1649	1642	1649	1642	156
180°	1653	1653	1653	1653	1653	



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1121.5	1123.0	1118.3	1117.6	1112.2	1110.7	1110.7	1103.1	1098.5	1092.4	1088.7
5°	1250.4	1257.7	1254.0	1246.0	1232.4	1229.2	1220.7	1207.2	1191.9	1172.9	1163.9
7.5°	1411.4	1421.3	1417.6	1405.0	1390.9	1379.4	1355.2	1332.7	1301.3	1273.7	1250.1
10°	1543.4	1533.1	1525.0	1512.8	1499.8	1478.5	1453.3	1418.6	1378.5	1346.9	1311.7
12.5°	1642.3	1640.5	1630.3	1617.7	1599.3	1579.2	1548.2	1505.9	1459.2	1413.7	1373.5
15°	1776.9	1779.7	1772.9	1759.8	1733.7	1698.1	1651.2	1633.6	1566.9	1517.3	1467.7
17.5°	1870.2	1869.7	1868.7	1850.6	1823.9	1798.6	1755.1	1708.9	1648.5	1578.6	1511.8
20°	1929.3	1924.9	1925.7	1905.4	1885.6	1856.3	1814.0	1746.8	1697.2	1616.5	1547.5
22.5°	1927.9	1927.0	1930.4	1923.5	1909.0	1886.6	1853.2	1796.6	1733.3	1651.8	1574.2
25°	1831.1	1827.5	1848.7	1854.5	1877.5	1881.5	1871.6	1840.6	1780.5	1696.7	1600.7
27.5°	1532.5	1530.5	1569.8	1619.0	1681.4	1729.9	1776.8	1799.4	1780.5	1720.5	1624.4
30°	1257.7	1300.0	1319.9	1391.1	1470.4	1565.1	1648.0	1726.9	1746.3	1720.2	1641.2
32.5°	1044.2	1081.2	1097.7	1158.8	1232.8	1343.7	1468.1	1579.8	1658.7	1678.7	1631.2
35°	794.3	794.7	832.6	859.6	928.2	1042.2	1163.0	1312.7	1461.4	1574.1	1585.8
37.5°	633.8	636.0	658.9	685.9	737.3	797.6	904.0	1028.4	1200.2	1373.2	1474.6
40°	547.3	551.3	568.4	595.0	632.0	677.5	760.4	877.7	1021.0	1213.5	1370.8
42.5°	491.7	498.3	507.1	527.6	550.5	593.1	660.2	750.7	881.1	1063.1	1244.6
45°	423.7	427.3	434.1	443.6	464.3	494.0	539.2	599.9	708.2	854.7	1036.3
47.5°	373.8	371.9	379.0	386.7	400.5	420.8	451.0	500.7	577.8	695.3	849.5
50°	339.9	339.4	344.4	350.3	363.3	378.2	403.0	440.4	501.7	599.1	740.2
52.5°	308.2	309.9	313.4	320.7	330.1	342.2	364.4	391.3	444.0	528.1	645.7
55°	266.0	267.3	272.2	276.3	283.1	295.2	309.3	331.7	367.8	426.5	523.3
57.5°	230.2	229.6	234.4	235.4	243.1	253.0	263.8	281.3	307.5	350.9	416.2
60°	206.5	205.1	209.1	212.3	216.4	224.5	233.5	250.6	271.4	303.3	359.3
62.5°	184.9	184.2	187.2	190.3	193.6	201.0	208.6	221.8	238.2	265.2	309.5
65°	153.3	154.6	155.9	157.3	159.1	163.6	170.8	179.9	191.1	210.1	242.0
67.5°	120.5	121.8	122.3	125.0	128.9	131.7	136.1	144.1	152.0	168.0	186.1
70°	97.4	96.9	97.4	98.8	103.7	108.7	114.5	120.4	125.3	136.6	151.9
72.5°	83.7	82.8	84.0	84.3	86.7	88.1	91.8	97.3	103.7	111.3	122.3
75°	64.9	64.9	64.9	64.9	66.7	67.6	69.0	70.3	72.6	76.2	84.3
77.5°	48.0	48.0	48.6	49.2	49.5	50.0	50.9	52.2	53.0	54.9	58.5
80°	37.9	38.3	37.9	38.3	38.3	39.2	39.7	41.0	41.5	43.7	45.1
82.5°	28.5	28.2	28.5	28.9	28.9	29.9	30.0	30.9	31.0	32.2	33.6
85°	15.3	14.5	15.3	14.9	15.8	14.9	15.3	16.2	16.2	16.7	18.5
87.5°	11.4	12.0	11.2	11.5	11.3	11.5	11.3	11.0	11.5	10.9	10.5
90°	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5	32.3	31.2	27.4
92.5°	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7	50.8	49.9	47.7
95°	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4	97.2	96.1	93.8
97.5°	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0	151.7	150.3	148.7
100°	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6	191.7	190.9	189.4
102.5°	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3	237.5	236.5	234.6
105°	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4	306.4	306.4	303.8
107.5°	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2	379.3	378.3	377.3
110°	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5	428.3	427.1	426.5



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7	477.3	476.0	475.9
115°	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7	553.4	553.1	553.7
117.5°	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3	629.4	629.5	630.2
120°	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8	680.0	680.4	681.7
122.5°	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7	731.5	732.3	733.1
125°	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6	807.7	808.9	809.4
127.5°	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5	883.0	884.7	885.4
130°	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2	932.4	933.5	934.4
132.5°	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6	980.9	982.3	982.9
135°	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0	1053.1	1054.3	1054.6
137.5°	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7	1123.9	1125.2	1124.4
140°	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5
142.5°	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9	1213.1	1213.4	1212.9
145°	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9	1277.3	1277.6	1276.7
147.5°	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9	1374.9	1374.9	1374.3
152.5°	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1	1408.7	1408.2	1407.8
155°	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1	1457.9	1456.7	1456.5
157.5°	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0	1500.8	1499.6	1499.3
160°	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4	1527.0	1525.5	1525.5
162.5°	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3	1552.0	1550.5	1550.2
165°	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8	1583.1	1581.4	1581.4
167.5°	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8	1606.6
170°	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3	1620.3
172.5°	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3	1633.6	1631.8	1631.8
175°	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2	1645.5	1643.7	1643.7
177.5°	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4	1651.1	1649.7	1649.7
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1087.3	1086.2	1081.2	1075.4	1067.8	1062.7	1058.8	1056.6	1050.2	1042.2	1036.8
5°	1154.4	1140.9	1126.5	1108.9	1092.7	1076.0	1065.7	1053.4	1038.6	1021.9	1010.2
7.5°	1226.4	1199.9	1171.3	1141.9	1112.7	1086.6	1063.5	1043.7	1020.0	996.1	979.4
10°	1281.6	1242.8	1202.6	1161.7	1124.2	1089.1	1062.0	1035.4	1007.0	979.6	958.8
12.5°	1331.7	1280.7	1234.4	1184.0	1136.2	1094.2	1055.2	1023.9	989.7	960.4	936.8
15°	1395.2	1342.9	1286.9	1210.3	1146.8	1093.6	1046.3	1005.2	963.8	927.7	904.7
17.5°	1454.5	1375.8	1300.7	1236.7	1154.2	1087.7	1029.9	980.9	935.4	897.2	868.8
20°	1479.0	1402.8	1321.2	1239.7	1158.5	1084.1	1016.9	962.9	915.5	872.3	846.1
22.5°	1493.7	1407.5	1321.5	1233.9	1147.7	1070.4	1004.0	944.4	893.2	852.0	819.8
25°	1511.0	1408.3	1313.5	1227.0	1139.1	1055.2	976.4	913.3	857.8	814.1	779.8
27.5°	1522.3	1401.4	1289.6	1193.3	1104.2	1020.7	948.4	881.6	825.3	779.0	742.3
30°	1524.5	1396.0	1271.2	1167.1	1076.4	999.8	923.2	859.2	799.7	750.5	716.3
32.5°	1527.4	1382.7	1246.3	1135.7	1042.9	967.0	897.6	836.5	775.5	727.1	692.2
35°	1515.5	1375.4	1208.5	1081.4	988.5	915.1	852.4	796.1	736.2	689.2	653.6
37.5°	1464.3	1346.0	1169.4	1020.3	923.2	855.1	804.1	754.9	700.0	649.4	615.9
40°	1412.7	1317.2	1139.1	983.2	881.8	811.8	765.9	725.7	672.5	625.3	589.2
42.5°	1335.9	1277.9	1110.3	944.2	834.8	767.5	728.8	691.1	644.5	596.4	562.5
45°	1195.0	1202.6	1051.2	882.2	769.9	702.3	665.8	639.6	598.2	558.5	523.8
47.5°	1018.3	1089.9	981.9	816.1	701.5	638.0	606.1	583.3	555.3	516.4	484.7
50°	902.9	1005.2	926.3	771.7	658.6	595.5	564.0	545.4	521.1	490.4	460.2
52.5°	796.5	906.5	859.3	722.3	612.1	554.4	523.6	508.3	489.0	460.1	432.8
55°	649.5	761.0	750.1	647.7	542.3	490.4	467.0	449.9	436.8	415.2	393.6
57.5°	525.5	631.0	636.6	564.8	480.8	429.6	409.4	396.5	388.0	371.6	351.6
60°	447.2	544.1	563.0	508.9	436.8	391.8	371.9	361.5	354.7	341.7	326.4
62.5°	382.3	464.8	486.2	447.3	394.6	352.4	336.9	326.9	322.3	311.0	297.5
65°	292.6	361.1	381.8	360.2	332.7	298.9	286.3	277.7	273.6	267.3	257.4
67.5°	220.0	269.9	292.7	277.4	267.5	246.2	238.1	233.5	229.9	225.6	217.3
70°	176.7	213.7	237.1	233.1	225.0	213.7	207.8	204.7	201.0	197.4	190.2
72.5°	142.1	167.6	189.5	191.6	184.9	182.6	177.5	176.2	174.0	169.7	165.7
75°	94.2	111.8	127.1	132.9	135.7	137.9	135.7	135.3	134.7	131.2	128.9
77.5°	61.7	71.2	80.8	90.8	95.1	98.2	98.9	100.6	99.4	97.5	96.3
80°	47.4	49.6	56.3	64.9	71.6	74.4	76.2	77.1	76.6	76.2	74.4
82.5°	34.4	36.2	39.4	45.5	51.1	55.6	56.7	56.6	57.5	57.8	56.3
85°	18.5	18.9	19.8	20.8	23.8	28.8	30.2	31.1	32.0	32.0	29.3
87.5°	10.5	9.4	9.4	8.7	9.2	9.0	10.6	11.8	12.7	11.9	12.5
90°	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3	4.2	7.1	10.0
92.5°	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4	33.4	35.3	37.3
95°	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6	78.6	80.7	82.7
97.5°	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0	137.6	139.1	140.6
100°	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6	178.3	180.0	181.8
102.5°	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3	224.4	225.4	226.4
105°	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1	292.7	293.3	293.9
107.5°	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1	372.5	372.8	373.2
110°	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0	422.6	423.1	423.7



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9	474.2	474.6	474.9
115°	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8	552.7	553.5	554.4
117.5°	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3	630.8	631.4	632.0
120°	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1	680.8	682.5	684.2
122.5°	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0	731.2	732.5	733.7
125°	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5	808.4	809.3	810.2
127.5°	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3	881.1	883.0	884.8
130°	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0	929.4	931.6	933.9
132.5°	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8	977.1	979.4	981.7
135°	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8	1049.5	1051.2	1052.9
137.5°	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3	1116.7	1118.2	1119.6
140°	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0	1163.5	1164.9	1166.3
142.5°	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6	1206.0	1207.5	1208.9
145°	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1	1271.7	1272.2	1272.8
147.5°	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2	1330.2	1331.3	1332.4
150°	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8	1370.4	1370.9	1371.5
152.5°	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0	1403.8	1404.6	1405.4
155°	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1	1499.8	1499.4	1499.1
160°	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2	1527.6	1527.0	1526.4
162.5°	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1	1552.3	1551.4	1550.7
165°	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3	1584.4	1583.6	1582.7
167.5°	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0	1609.8	1608.7	1607.5
170°	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5	1624.4	1623.2	1622.0
172.5°	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9	1635.8	1634.6	1633.5
175°	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9	1647.8	1646.6	1645.5
177.5°	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8	1652.9	1652.0	1651.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1035.0	1030.3	1027.1	1019.9	1015.1	1010.1	1005.0	1008.3	1008.0	1007.5	1007.5
5°	1000.3	989.9	980.4	968.3	960.6	951.1	943.9	943.1	944.9	938.5	934.9
7.5°	965.9	951.7	938.2	924.8	910.6	899.2	892.1	888.7	884.2	880.3	876.2
10°	941.7	925.0	911.9	895.3	879.9	866.4	857.8	852.0	848.8	845.7	839.8
12.5°	916.8	900.4	883.8	865.0	850.3	834.7	828.3	821.7	815.6	812.1	804.1
15°	880.4	859.2	841.6	821.7	805.6	790.2	781.2	768.1	766.3	761.8	753.7
17.5°	843.9	820.9	796.6	782.0	763.6	747.7	733.9	729.5	716.6	711.8	704.7
20°	815.0	793.8	775.3	756.0	729.4	714.5	703.7	697.8	687.4	681.1	676.6
22.5°	790.1	768.6	747.2	724.6	702.7	686.0	678.0	668.9	663.3	654.4	649.5
25°	754.6	731.2	705.5	681.1	665.4	652.7	640.1	632.0	623.9	619.8	610.8
27.5°	713.3	688.8	664.8	646.4	627.0	614.5	603.0	595.8	586.1	579.3	574.3
30°	690.6	661.8	641.0	624.3	599.5	587.8	579.3	570.2	563.0	555.8	550.9
32.5°	664.3	637.9	618.3	597.6	578.6	565.8	554.7	546.8	540.6	533.8	528.8
35°	622.9	600.9	580.6	559.8	545.9	532.8	519.8	513.0	507.1	500.8	496.3
37.5°	585.7	565.0	545.7	526.1	508.8	498.1	487.6	482.4	474.5	470.3	465.6
40°	562.6	542.3	521.5	502.7	484.6	476.5	467.0	459.3	452.1	449.0	444.0
42.5°	537.4	517.0	499.6	479.1	464.4	453.4	444.6	436.3	430.8	426.3	423.4
45°	499.9	481.9	464.8	444.4	430.5	421.0	411.1	403.5	398.5	395.4	390.4
47.5°	463.6	445.6	428.2	410.4	396.9	386.2	376.3	370.9	364.3	360.4	357.1
50°	437.2	421.0	402.5	386.3	372.8	362.0	353.9	347.1	341.2	336.3	334.1
52.5°	413.1	395.8	379.8	364.7	350.4	338.2	330.8	323.6	319.3	313.6	310.9
55°	373.2	356.5	343.0	328.1	314.2	303.8	294.8	288.5	284.0	277.7	274.1
57.5°	335.8	320.9	304.7	291.8	277.4	268.6	261.1	252.6	247.1	242.2	238.7
60°	310.6	293.4	279.5	267.3	254.7	243.4	236.7	229.9	224.0	219.0	215.9
62.5°	284.3	269.3	256.1	242.8	231.3	221.4	213.6	207.9	202.8	199.6	196.5
65°	243.8	232.1	218.6	207.8	197.0	189.8	183.5	178.5	174.9	172.6	170.0
67.5°	206.7	195.4	183.6	172.9	165.7	160.2	156.1	151.8	150.0	147.1	145.3
70°	182.5	170.8	160.5	152.4	145.2	141.1	138.4	135.3	133.5	129.8	128.0
72.5°	156.3	147.7	140.3	133.6	127.9	124.2	120.7	116.8	114.0	109.9	108.2
75°	123.0	115.4	109.5	105.0	101.4	96.4	91.5	87.5	86.1	84.7	84.3
77.5°	91.2	86.3	82.1	78.3	73.8	70.2	69.1	68.2	67.8	67.2	67.2
80°	71.6	67.2	64.0	59.5	56.8	56.8	56.8	55.9	56.3	56.3	56.3
82.5°	53.3	49.2	47.4	45.8	45.3	45.6	45.6	45.8	45.5	46.2	45.9
85°	27.5	28.0	28.8	28.4	28.8	28.8	29.8	29.3	29.8	28.8	29.8
87.5°	12.7	14.4	15.5	16.6	17.7	18.2	18.7	18.9	19.5	19.8	20.0
90°	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5	34.6	35.8	36.7
92.5°	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7	52.6	53.6	53.8
95°	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4	99.5	100.7	101.3
97.5°	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0	154.3	155.7	156.3
100°	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6	193.5	194.3	195.0
102.5°	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3	239.2	240.0	240.4
105°	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4	306.4	306.4	306.7
107.5°	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2	381.1	382.0	382.3
110°	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5	430.6	431.8	432.0



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7	480.1	481.5	482.2
115°	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7	554.0	554.2	554.2
117.5°	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3	629.3	629.2	628.8
120°	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8	679.5	679.2	678.7
122.5°	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7	730.0	729.3	728.5
125°	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6	805.4	804.3	803.1
127.5°	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5	879.9	878.2	876.8
130°	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2	930.1	928.9	927.3
132.5°	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6	978.2	976.8	975.3
135°	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0	1050.8	1049.6	1048.8
137.5°	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7	1121.5	1120.3	1119.1
140°	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.5
142.5°	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9	1212.5	1212.3	1211.3
145°	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9	1276.7	1276.4	1275.7
147.5°	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6	1337.6	1337.6	1336.7
150°	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9	1374.9	1374.9	1374.1
152.5°	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1	1409.5	1410.1	1409.5
155°	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1	1460.2	1461.4	1460.9
157.5°	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0	1503.2	1504.4	1504.3
160°	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4	1529.9	1531.3	1531.5
162.5°	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3	1554.8	1556.3	1556.1
165°	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8	1586.6	1588.3	1588.2
167.5°	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9
170°	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4
172.5°	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3	1637.1	1638.9	1638.8
175°	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2	1648.9	1650.6	1650.5
177.5°	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4	1653.8	1655.2	1655.1
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1003.2	1002.9	1003.2	1001.8	1003.2	1002.9	1003.2	1007.5	1007.5	1008.0	1008.3
5°	933.6	933.1	931.8	927.7	931.8	933.1	933.6	934.9	938.5	944.9	943.1
7.5°	872.7	872.1	868.1	868.2	868.1	872.1	872.7	876.2	880.3	884.2	888.7
10°	836.6	837.1	831.7	828.5	831.7	837.1	836.6	839.8	845.7	848.8	852.0
12.5°	801.7	799.6	795.2	791.8	795.2	799.6	801.7	804.1	812.1	815.6	821.7
15°	755.5	751.0	740.2	741.1	740.2	751.0	755.5	753.7	761.8	766.3	768.1
17.5°	701.1	697.8	697.6	691.3	697.6	697.8	701.1	704.7	711.8	716.6	729.5
20°	669.4	667.2	668.0	661.8	668.0	667.2	669.4	676.6	681.1	687.4	697.8
22.5°	644.5	642.3	638.5	636.5	638.5	642.3	644.5	649.5	654.4	663.3	668.9
25°	608.1	604.5	600.9	603.1	600.9	604.5	608.1	610.8	619.8	623.9	632.0
27.5°	571.7	568.9	565.3	564.9	565.3	568.9	571.7	574.3	579.3	586.1	595.8
30°	548.6	545.9	544.1	541.8	544.1	545.9	548.6	550.9	555.8	563.0	570.2
32.5°	525.1	524.6	521.3	520.9	521.3	524.6	525.1	528.8	533.8	540.6	546.8
35°	494.5	491.8	490.9	491.4	490.9	491.8	494.5	496.3	500.8	507.1	513.0
37.5°	465.4	461.8	460.1	458.6	460.1	461.8	465.4	465.6	470.3	474.5	482.4
40°	444.4	440.8	440.0	439.0	440.0	440.8	444.4	444.0	449.0	452.1	459.3
42.5°	421.0	419.6	419.0	417.4	419.0	419.6	421.0	423.4	426.3	430.8	436.3
45°	389.0	388.6	385.9	386.8	385.9	388.6	389.0	390.4	395.4	398.5	403.5
47.5°	355.3	353.4	351.5	352.7	351.5	353.4	355.3	357.1	360.4	364.3	370.9
50°	332.3	331.3	327.3	328.1	327.3	331.3	332.3	334.1	336.3	341.2	347.1
52.5°	309.2	305.7	304.2	303.7	304.2	305.7	309.2	310.9	313.6	319.3	323.6
55°	271.0	266.8	265.0	264.2	265.0	266.8	271.0	274.1	277.7	284.0	288.5
57.5°	233.4	232.3	230.9	231.9	230.9	232.3	233.4	238.7	242.2	247.1	252.6
60°	211.4	211.4	211.4	210.9	211.4	211.4	211.4	215.9	219.0	224.0	229.9
62.5°	194.5	193.4	193.0	193.6	193.0	193.4	194.5	196.5	199.6	202.8	207.9
65°	168.6	168.2	166.3	165.9	166.3	168.2	168.6	170.0	172.6	174.9	178.5
67.5°	144.1	142.5	142.0	141.4	142.0	142.5	144.1	145.3	147.1	150.0	151.8
70°	125.8	124.8	122.2	122.6	122.2	124.8	125.8	128.0	129.8	133.5	135.3
72.5°	105.9	105.0	104.5	103.8	104.5	105.0	105.9	108.2	109.9	114.0	116.8
75°	83.9	83.4	82.9	84.7	82.9	83.4	83.9	84.3	84.7	86.1	87.5
77.5°	67.2	67.2	67.4	66.7	67.4	67.2	67.2	67.2	67.2	67.8	68.2
80°	56.3	56.3	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.3	55.9
82.5°	45.2	45.5	45.8	45.1	45.8	45.5	45.2	45.9	46.2	45.5	45.8
85°	29.8	29.3	30.2	29.8	30.2	29.3	29.8	29.8	28.8	29.8	29.3
87.5°	20.8	20.1	20.3	20.8	20.3	20.1	20.8	20.0	19.8	19.5	18.9
90°	37.2	37.8	38.4	38.9	38.4	37.8	37.2	36.7	35.8	34.6	33.5
92.5°	53.5	53.1	52.8	52.4	52.8	53.1	53.5	53.8	53.6	52.6	51.7
95°	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	100.7	99.5	98.4
97.5°	156.2	156.0	155.9	155.8	155.9	156.0	156.2	156.3	155.7	154.3	153.0
100°	195.6	196.2	196.7	197.3	196.7	196.2	195.6	195.0	194.3	193.5	192.6
102.5°	240.3	240.1	240.0	240.0	240.0	240.1	240.3	240.4	240.0	239.2	238.3
105°	307.3	307.9	308.4	309.0	308.4	307.9	307.3	306.7	306.4	306.4	306.4
107.5°	381.9	381.6	381.3	380.9	381.3	381.6	381.9	382.3	382.0	381.1	380.2
110°	431.4	430.9	430.3	429.7	430.3	430.9	431.4	432.0	431.8	430.6	429.5



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	482.1	481.9	481.8	481.6	481.8	481.9	482.1	482.2	481.5	480.1	478.7
115°	554.0	553.7	553.4	553.1	553.4	553.7	554.0	554.2	554.2	554.0	553.7
117.5°	627.9	627.2	626.4	625.5	626.4	627.2	627.9	628.8	629.2	629.3	629.3
120°	678.2	677.6	677.0	676.4	677.0	677.6	678.2	678.7	679.2	679.5	679.8
122.5°	727.7	726.9	726.1	725.2	726.1	726.9	727.7	728.5	729.3	730.0	730.7
125°	801.9	800.8	799.6	798.5	799.6	800.8	801.9	803.1	804.3	805.4	806.6
127.5°	875.5	874.1	872.8	871.4	872.8	874.1	875.5	876.8	878.2	879.9	881.5
130°	925.3	923.3	921.3	919.2	921.3	923.3	925.3	927.3	928.9	930.1	931.2
132.5°	973.8	972.2	970.6	969.1	970.6	972.2	973.8	975.3	976.8	978.2	979.6
135°	1048.2	1047.6	1047.1	1046.5	1047.1	1047.6	1048.2	1048.8	1049.6	1050.8	1052.0
137.5°	1118.0	1117.0	1115.9	1114.7	1115.9	1117.0	1118.0	1119.1	1120.3	1121.5	1122.7
140°	1165.4	1163.5	1161.4	1159.4	1161.4	1163.5	1165.4	1167.5	1168.6	1169.0	1169.2
142.5°	1209.8	1208.2	1206.7	1205.1	1206.7	1208.2	1209.8	1211.3	1212.3	1212.5	1212.9
145°	1274.5	1273.4	1272.2	1271.1	1272.2	1273.4	1274.5	1275.7	1276.4	1276.7	1276.9
147.5°	1335.0	1333.3	1331.5	1329.7	1331.5	1333.3	1335.0	1336.7	1337.6	1337.6	1337.6
150°	1372.3	1370.6	1368.9	1367.2	1368.9	1370.6	1372.3	1374.1	1374.9	1374.9	1374.9
152.5°	1408.0	1406.5	1405.0	1403.5	1405.0	1406.5	1408.0	1409.5	1410.1	1409.5	1409.1
155°	1458.9	1456.9	1454.8	1452.9	1454.8	1456.9	1458.9	1460.9	1461.4	1460.2	1459.1
157.5°	1502.6	1501.0	1499.3	1497.8	1499.3	1501.0	1502.6	1504.3	1504.4	1503.2	1502.0
160°	1530.3	1529.1	1528.0	1526.8	1528.0	1529.1	1530.3	1531.5	1531.3	1529.9	1528.4
162.5°	1554.2	1552.4	1550.5	1548.7	1550.5	1552.4	1554.2	1556.1	1556.3	1554.8	1553.3
165°	1586.1	1584.2	1582.1	1580.1	1582.1	1584.2	1586.1	1588.2	1588.3	1586.6	1584.8
167.5°	1612.2	1610.4	1608.6	1606.8	1608.6	1610.4	1612.2	1613.9	1613.9	1612.2	1610.4
170°	1626.4	1624.4	1622.4	1620.3	1622.4	1624.4	1626.4	1628.4	1628.4	1626.4	1624.4
172.5°	1636.8	1634.8	1632.7	1630.7	1632.7	1634.8	1636.8	1638.8	1638.9	1637.1	1635.3
175°	1648.5	1646.4	1644.4	1642.4	1644.4	1646.4	1648.5	1650.5	1650.6	1648.9	1647.2
177.5°	1653.5	1651.8	1650.3	1648.6	1650.3	1651.8	1653.5	1655.1	1655.2	1653.8	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1005.0	1010.1	1015.1	1019.9	1027.1	1030.3	1035.0	1036.8	1042.2	1050.2	1056.6
5°	943.9	951.1	960.6	968.3	980.4	989.9	1000.3	1010.2	1021.9	1038.6	1053.4
7.5°	892.1	899.2	910.6	924.8	938.2	951.7	965.9	979.4	996.1	1020.0	1043.7
10°	857.8	866.4	879.9	895.3	911.9	925.0	941.7	958.8	979.6	1007.0	1035.4
12.5°	828.3	834.7	850.3	865.0	883.8	900.4	916.8	936.8	960.4	989.7	1023.9
15°	781.2	790.2	805.6	821.7	841.6	859.2	880.4	904.7	927.7	963.8	1005.2
17.5°	733.9	747.7	763.6	782.0	796.6	820.9	843.9	868.8	897.2	935.4	980.9
20°	703.7	714.5	729.4	756.0	775.3	793.8	815.0	846.1	872.3	915.5	962.9
22.5°	678.0	686.0	702.7	724.6	747.2	768.6	790.1	819.8	852.0	893.2	944.4
25°	640.1	652.7	665.4	681.1	705.5	731.2	754.6	779.8	814.1	857.8	913.3
27.5°	603.0	614.5	627.0	646.4	664.8	688.8	713.3	742.3	779.0	825.3	881.6
30°	579.3	587.8	599.5	624.3	641.0	661.8	690.6	716.3	750.5	799.7	859.2
32.5°	554.7	565.8	578.6	597.6	618.3	637.9	664.3	692.2	727.1	775.5	836.5
35°	519.8	532.8	545.9	559.8	580.6	600.9	622.9	653.6	689.2	736.2	796.1
37.5°	487.6	498.1	508.8	526.1	545.7	565.0	585.7	615.9	649.4	700.0	754.9
40°	467.0	476.5	484.6	502.7	521.5	542.3	562.6	589.2	625.3	672.5	725.7
42.5°	444.6	453.4	464.4	479.1	499.6	517.0	537.4	562.5	596.4	644.5	691.1
45°	411.1	421.0	430.5	444.4	464.8	481.9	499.9	523.8	558.5	598.2	639.6
47.5°	376.3	386.2	396.9	410.4	428.2	445.6	463.6	484.7	516.4	555.3	583.3
50°	353.9	362.0	372.8	386.3	402.5	421.0	437.2	460.2	490.4	521.1	545.4
52.5°	330.8	338.2	350.4	364.7	379.8	395.8	413.1	432.8	460.1	489.0	508.3
55°	294.8	303.8	314.2	328.1	343.0	356.5	373.2	393.6	415.2	436.8	449.9
57.5°	261.1	268.6	277.4	291.8	304.7	320.9	335.8	351.6	371.6	388.0	396.5
60°	236.7	243.4	254.7	267.3	279.5	293.4	310.6	326.4	341.7	354.7	361.5
62.5°	213.6	221.4	231.3	242.8	256.1	269.3	284.3	297.5	311.0	322.3	326.9
65°	183.5	189.8	197.0	207.8	218.6	232.1	243.8	257.4	267.3	273.6	277.7
67.5°	156.1	160.2	165.7	172.9	183.6	195.4	206.7	217.3	225.6	229.9	233.5
70°	138.4	141.1	145.2	152.4	160.5	170.8	182.5	190.2	197.4	201.0	204.7
72.5°	120.7	124.2	127.9	133.6	140.3	147.7	156.3	165.7	169.7	174.0	176.2
75°	91.5	96.4	101.4	105.0	109.5	115.4	123.0	128.9	131.2	134.7	135.3
77.5°	69.1	70.2	73.8	78.3	82.1	86.3	91.2	96.3	97.5	99.4	100.6
80°	56.8	56.8	56.8	59.5	64.0	67.2	71.6	74.4	76.2	76.6	77.1
82.5°	45.6	45.6	45.3	45.8	47.4	49.2	53.3	56.3	57.8	57.5	56.6
85°	29.8	28.8	28.8	28.4	28.8	28.0	27.5	29.3	32.0	32.0	31.1
87.5°	18.7	18.2	17.7	16.6	15.5	14.4	12.7	12.5	11.9	12.7	11.8
90°	32.3	31.2	27.4	23.7	19.9	16.2	12.8	10.0	7.1	4.2	1.3
92.5°	50.8	49.9	47.7	45.5	43.5	41.3	39.3	37.3	35.3	33.4	31.4
95°	97.2	96.1	93.8	91.4	89.1	86.9	84.7	82.7	80.7	78.6	76.6
97.5°	151.7	150.3	148.7	147.0	145.3	143.6	142.1	140.6	139.1	137.6	136.0
100°	191.7	190.9	189.4	188.0	186.5	185.1	183.5	181.8	180.0	178.3	176.6
102.5°	237.5	236.5	234.6	232.7	230.8	228.9	227.5	226.4	225.4	224.4	223.3
105°	306.4	306.4	303.8	301.2	298.6	296.0	294.5	293.9	293.3	292.7	292.1
107.5°	379.3	378.3	377.3	376.3	375.2	374.2	373.5	373.2	372.8	372.5	372.1
110°	428.3	427.1	426.5	426.0	425.4	424.8	424.3	423.7	423.1	422.6	422.0



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	477.3	476.0	475.9	475.7	475.6	475.5	475.3	474.9	474.6	474.2	473.9
115°	553.4	553.1	553.7	554.2	554.8	555.4	555.3	554.4	553.5	552.7	551.8
117.5°	629.4	629.5	630.2	630.9	631.7	632.4	632.5	632.0	631.4	630.8	630.3
120°	680.0	680.4	681.7	683.2	684.7	686.1	686.0	684.2	682.5	680.8	679.1
122.5°	731.5	732.3	733.1	733.7	734.5	735.3	735.0	733.7	732.5	731.2	730.0
125°	807.7	808.9	809.4	810.0	810.6	811.1	811.1	810.2	809.3	808.4	807.5
127.5°	883.0	884.7	885.4	886.0	886.6	887.3	886.7	884.8	883.0	881.1	879.3
130°	932.4	933.5	934.4	935.2	936.1	936.9	936.3	933.9	931.6	929.4	927.0
132.5°	980.9	982.3	982.9	983.6	984.2	984.9	984.0	981.7	979.4	977.1	974.8
135°	1053.1	1054.3	1054.6	1054.8	1055.2	1055.4	1054.7	1052.9	1051.2	1049.5	1047.8
137.5°	1123.9	1125.2	1124.4	1123.6	1122.9	1122.1	1121.0	1119.6	1118.2	1116.7	1115.3
140°	1169.5	1169.8	1169.5	1169.2	1169.0	1168.6	1167.8	1166.3	1164.9	1163.5	1162.0
142.5°	1213.1	1213.4	1212.9	1212.4	1211.9	1211.3	1210.4	1208.9	1207.5	1206.0	1204.6
145°	1277.3	1277.6	1276.7	1275.8	1275.0	1274.1	1273.4	1272.8	1272.2	1271.7	1271.1
147.5°	1337.6	1337.6	1336.7	1335.9	1335.2	1334.3	1333.4	1332.4	1331.3	1330.2	1329.2
150°	1374.9	1374.9	1374.3	1373.8	1373.2	1372.6	1372.1	1371.5	1370.9	1370.4	1369.8
152.5°	1408.7	1408.2	1407.8	1407.5	1407.1	1406.8	1406.2	1405.4	1404.6	1403.8	1403.0
155°	1457.9	1456.7	1456.5	1456.1	1455.9	1455.6	1455.4	1455.4	1455.4	1455.4	1455.4
157.5°	1500.8	1499.6	1499.3	1499.1	1498.9	1498.7	1498.7	1499.1	1499.4	1499.8	1500.1
160°	1527.0	1525.5	1525.5	1525.5	1525.5	1525.5	1525.9	1526.4	1527.0	1527.6	1528.2
162.5°	1552.0	1550.5	1550.2	1550.1	1549.8	1549.5	1549.9	1550.7	1551.4	1552.3	1553.1
165°	1583.1	1581.4	1581.4	1581.4	1581.4	1581.4	1581.8	1582.7	1583.6	1584.4	1585.3
167.5°	1608.6	1606.8	1606.6	1606.4	1606.1	1605.9	1606.4	1607.5	1608.7	1609.8	1611.0
170°	1622.4	1620.3	1620.3	1620.3	1620.3	1620.3	1620.9	1622.0	1623.2	1624.4	1625.5
172.5°	1633.6	1631.8	1631.8	1631.8	1631.8	1631.8	1632.4	1633.5	1634.6	1635.8	1636.9
175°	1645.5	1643.7	1643.7	1643.7	1643.7	1643.7	1644.3	1645.5	1646.6	1647.8	1648.9
177.5°	1651.1	1649.7	1649.7	1649.7	1649.7	1649.7	1650.1	1651.1	1652.0	1652.9	1653.8
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1058.8	1062.7	1067.8	1075.4	1081.2	1086.2	1087.3	1088.7	1092.4	1098.5	1103.1
5°	1065.7	1076.0	1092.7	1108.9	1126.5	1140.9	1154.4	1163.9	1172.9	1191.9	1207.2
7.5°	1063.5	1086.6	1112.7	1141.9	1171.3	1199.9	1226.4	1250.1	1273.7	1301.3	1332.7
10°	1062.0	1089.1	1124.2	1161.7	1202.6	1242.8	1281.6	1311.7	1346.9	1378.5	1418.6
12.5°	1055.2	1094.2	1136.2	1184.0	1234.4	1280.7	1331.7	1373.5	1413.7	1459.2	1505.9
15°	1046.3	1093.6	1146.8	1210.3	1286.9	1342.9	1395.2	1467.7	1517.3	1566.9	1633.6
17.5°	1029.9	1087.7	1154.2	1236.7	1300.7	1375.8	1454.5	1511.8	1578.6	1648.5	1708.9
20°	1016.9	1084.1	1158.5	1239.7	1321.2	1402.8	1479.0	1547.5	1616.5	1697.2	1746.8
22.5°	1004.0	1070.4	1147.7	1233.9	1321.5	1407.5	1493.7	1574.2	1651.8	1733.3	1796.6
25°	976.4	1055.2	1139.1	1227.0	1313.5	1408.3	1511.0	1600.7	1696.7	1780.5	1840.6
27.5°	948.4	1020.7	1104.2	1193.3	1289.6	1401.4	1522.3	1624.4	1720.5	1780.5	1799.4
30°	923.2	999.8	1076.4	1167.1	1271.2	1396.0	1524.5	1641.2	1720.2	1746.3	1726.9
32.5°	897.6	967.0	1042.9	1135.7	1246.3	1382.7	1527.4	1631.2	1678.7	1658.7	1579.8
35°	852.4	915.1	988.5	1081.4	1208.5	1375.4	1515.5	1585.8	1574.1	1461.4	1312.7
37.5°	804.1	855.1	923.2	1020.3	1169.4	1346.0	1464.3	1474.6	1373.2	1200.2	1028.4
40°	765.9	811.8	881.8	983.2	1139.1	1317.2	1412.7	1370.8	1213.5	1021.0	877.7
42.5°	728.8	767.5	834.8	944.2	1110.3	1277.9	1335.9	1244.6	1063.1	881.1	750.7
45°	665.8	702.3	769.9	882.2	1051.2	1202.6	1195.0	1036.3	854.7	708.2	599.9
47.5°	606.1	638.0	701.5	816.1	981.9	1089.9	1018.3	849.5	695.3	577.8	500.7
50°	564.0	595.5	658.6	771.7	926.3	1005.2	902.9	740.2	599.1	501.7	440.4
52.5°	523.6	554.4	612.1	722.3	859.3	906.5	796.5	645.7	528.1	444.0	391.3
55°	467.0	490.4	542.3	647.7	750.1	761.0	649.5	523.3	426.5	367.8	331.7
57.5°	409.4	429.6	480.8	564.8	636.6	631.0	525.5	416.2	350.9	307.5	281.3
60°	371.9	391.8	436.8	508.9	563.0	544.1	447.2	359.3	303.3	271.4	250.6
62.5°	336.9	352.4	394.6	447.3	486.2	464.8	382.3	309.5	265.2	238.2	221.8
65°	286.3	298.9	332.7	360.2	381.8	361.1	292.6	242.0	210.1	191.1	179.9
67.5°	238.1	246.2	267.5	277.4	292.7	269.9	220.0	186.1	168.0	152.0	144.1
70°	207.8	213.7	225.0	233.1	237.1	213.7	176.7	151.9	136.6	125.3	120.4
72.5°	177.5	182.6	184.9	191.6	189.5	167.6	142.1	122.3	111.3	103.7	97.3
75°	135.7	137.9	135.7	132.9	127.1	111.8	94.2	84.3	76.2	72.6	70.3
77.5°	98.9	98.2	95.1	90.8	80.8	71.2	61.7	58.5	54.9	53.0	52.2
80°	76.2	74.4	71.6	64.9	56.3	49.6	47.4	45.1	43.7	41.5	41.0
82.5°	56.7	55.6	51.1	45.5	39.4	36.2	34.4	33.6	32.2	31.0	30.9
85°	30.2	28.8	23.8	20.8	19.8	18.9	18.5	18.5	16.7	16.2	16.2
87.5°	10.6	9.0	9.2	8.7	9.4	9.4	10.5	10.5	10.9	11.5	11.0
90°	4.2	7.1	10.0	12.8	16.2	19.9	23.7	27.4	31.2	32.3	33.5
92.5°	33.4	35.3	37.3	39.3	41.3	43.5	45.5	47.7	49.9	50.8	51.7
95°	78.6	80.7	82.7	84.7	86.9	89.1	91.4	93.8	96.1	97.2	98.4
97.5°	137.6	139.1	140.6	142.1	143.6	145.3	147.0	148.7	150.3	151.7	153.0
100°	178.3	180.0	181.8	183.5	185.1	186.5	188.0	189.4	190.9	191.7	192.6
102.5°	224.4	225.4	226.4	227.5	228.9	230.8	232.7	234.6	236.5	237.5	238.3
105°	292.7	293.3	293.9	294.5	296.0	298.6	301.2	303.8	306.4	306.4	306.4
107.5°	372.5	372.8	373.2	373.5	374.2	375.2	376.3	377.3	378.3	379.3	380.2
110°	422.6	423.1	423.7	424.3	424.8	425.4	426.0	426.5	427.1	428.3	429.5



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	474.2	474.6	474.9	475.3	475.5	475.6	475.7	475.9	476.0	477.3	478.7
115°	552.7	553.5	554.4	555.3	555.4	554.8	554.2	553.7	553.1	553.4	553.7
117.5°	630.8	631.4	632.0	632.5	632.4	631.7	630.9	630.2	629.5	629.4	629.3
120°	680.8	682.5	684.2	686.0	686.1	684.7	683.2	681.7	680.4	680.0	679.8
122.5°	731.2	732.5	733.7	735.0	735.3	734.5	733.7	733.1	732.3	731.5	730.7
125°	808.4	809.3	810.2	811.1	811.1	810.6	810.0	809.4	808.9	807.7	806.6
127.5°	881.1	883.0	884.8	886.7	887.3	886.6	886.0	885.4	884.7	883.0	881.5
130°	929.4	931.6	933.9	936.3	936.9	936.1	935.2	934.4	933.5	932.4	931.2
132.5°	977.1	979.4	981.7	984.0	984.9	984.2	983.6	982.9	982.3	980.9	979.6
135°	1049.5	1051.2	1052.9	1054.7	1055.4	1055.2	1054.8	1054.6	1054.3	1053.1	1052.0
137.5°	1116.7	1118.2	1119.6	1121.0	1122.1	1122.9	1123.6	1124.4	1125.2	1123.9	1122.7
140°	1163.5	1164.9	1166.3	1167.8	1168.6	1169.0	1169.2	1169.5	1169.8	1169.5	1169.2
142.5°	1206.0	1207.5	1208.9	1210.4	1211.3	1211.9	1212.4	1212.9	1213.4	1213.1	1212.9
145°	1271.7	1272.2	1272.8	1273.4	1274.1	1275.0	1275.8	1276.7	1277.6	1277.3	1276.9
147.5°	1330.2	1331.3	1332.4	1333.4	1334.3	1335.2	1335.9	1336.7	1337.6	1337.6	1337.6
150°	1370.4	1370.9	1371.5	1372.1	1372.6	1373.2	1373.8	1374.3	1374.9	1374.9	1374.9
152.5°	1403.8	1404.6	1405.4	1406.2	1406.8	1407.1	1407.5	1407.8	1408.2	1408.7	1409.1
155°	1455.4	1455.4	1455.4	1455.4	1455.6	1455.9	1456.1	1456.5	1456.7	1457.9	1459.1
157.5°	1499.8	1499.4	1499.1	1498.7	1498.7	1498.9	1499.1	1499.3	1499.6	1500.8	1502.0
160°	1527.6	1527.0	1526.4	1525.9	1525.5	1525.5	1525.5	1525.5	1525.5	1527.0	1528.4
162.5°	1552.3	1551.4	1550.7	1549.9	1549.5	1549.8	1550.1	1550.2	1550.5	1552.0	1553.3
165°	1584.4	1583.6	1582.7	1581.8	1581.4	1581.4	1581.4	1581.4	1581.4	1583.1	1584.8
167.5°	1609.8	1608.7	1607.5	1606.4	1605.9	1606.1	1606.4	1606.6	1606.8	1608.6	1610.4
170°	1624.4	1623.2	1622.0	1620.9	1620.3	1620.3	1620.3	1620.3	1620.3	1622.4	1624.4
172.5°	1635.8	1634.6	1633.5	1632.4	1631.8	1631.8	1631.8	1631.8	1631.8	1633.6	1635.3
175°	1647.8	1646.6	1645.5	1644.3	1643.7	1643.7	1643.7	1643.7	1643.7	1645.5	1647.2
177.5°	1652.9	1652.0	1651.1	1650.1	1649.7	1649.7	1649.7	1649.7	1649.7	1651.1	1652.4
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1110.7	1110.7	1112.2	1117.6	1118.3	1123.0	1121.5
5°	1220.7	1229.2	1232.4	1246.0	1254.0	1257.7	1250.4
7.5°	1355.2	1379.4	1390.9	1405.0	1417.6	1421.3	1411.4
10°	1453.3	1478.5	1499.8	1512.8	1525.0	1533.1	1543.4
12.5°	1548.2	1579.2	1599.3	1617.7	1630.3	1640.5	1642.3
15°	1651.2	1698.1	1733.7	1759.8	1772.9	1779.7	1776.9
17.5°	1755.1	1798.6	1823.9	1850.6	1868.7	1869.7	1870.2
20°	1814.0	1856.3	1885.6	1905.4	1925.7	1924.9	1929.3
22.5°	1853.2	1886.6	1909.0	1923.5	1930.4	1927.0	1927.9
25°	1871.6	1881.5	1877.5	1854.5	1848.7	1827.5	1831.1
27.5°	1776.8	1729.9	1681.4	1619.0	1569.8	1530.5	1532.5
30°	1648.0	1565.1	1470.4	1391.1	1319.9	1300.0	1257.7
32.5°	1468.1	1343.7	1232.8	1158.8	1097.7	1081.2	1044.2
35°	1163.0	1042.2	928.2	859.6	832.6	794.7	794.3
37.5°	904.0	797.6	737.3	685.9	658.9	636.0	633.8
40°	760.4	677.5	632.0	595.0	568.4	551.3	547.3
42.5°	660.2	593.1	550.5	527.6	507.1	498.3	491.7
45°	539.2	494.0	464.3	443.6	434.1	427.3	423.7
47.5°	451.0	420.8	400.5	386.7	379.0	371.9	373.8
50°	403.0	378.2	363.3	350.3	344.4	339.4	339.9
52.5°	364.4	342.2	330.1	320.7	313.4	309.9	308.2
55°	309.3	295.2	283.1	276.3	272.2	267.3	266.0
57.5°	263.8	253.0	243.1	235.4	234.4	229.6	230.2
60°	233.5	224.5	216.4	212.3	209.1	205.1	206.5
62.5°	208.6	201.0	193.6	190.3	187.2	184.2	184.9
65°	170.8	163.6	159.1	157.3	155.9	154.6	153.3
67.5°	136.1	131.7	128.9	125.0	122.3	121.8	120.5
70°	114.5	108.7	103.7	98.8	97.4	96.9	97.4
72.5°	91.8	88.1	86.7	84.3	84.0	82.8	83.7
75°	69.0	67.6	66.7	64.9	64.9	64.9	64.9
77.5°	50.9	50.0	49.5	49.2	48.6	48.0	48.0
80°	39.7	39.2	38.3	38.3	37.9	38.3	37.9
82.5°	30.0	29.9	28.9	28.9	28.5	28.2	28.5
85°	15.3	14.9	15.8	14.9	15.3	14.5	15.3
87.5°	11.3	11.5	11.3	11.5	11.2	12.0	11.4
90°	34.6	35.8	36.7	37.2	37.8	38.4	38.9
92.5°	52.6	53.6	53.8	53.5	53.1	52.8	52.4
95°	99.5	100.7	101.3	101.3	101.3	101.3	101.3
97.5°	154.3	155.7	156.3	156.2	156.0	155.9	155.8
100°	193.5	194.3	195.0	195.6	196.2	196.7	197.3
102.5°	239.2	240.0	240.4	240.3	240.1	240.0	240.0
105°	306.4	306.4	306.7	307.3	307.9	308.4	309.0
107.5°	381.1	382.0	382.3	381.9	381.6	381.3	380.9
110°	430.6	431.8	432.0	431.4	430.9	430.3	429.7



TEST NUMBER: P332447-935

CATALOG NUMBER: S123RDIW-S775D1535U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	480.1	481.5	482.2	482.1	481.9	481.8	481.6
115°	554.0	554.2	554.2	554.0	553.7	553.4	553.1
117.5°	629.3	629.2	628.8	627.9	627.2	626.4	625.5
120°	679.5	679.2	678.7	678.2	677.6	677.0	676.4
122.5°	730.0	729.3	728.5	727.7	726.9	726.1	725.2
125°	805.4	804.3	803.1	801.9	800.8	799.6	798.5
127.5°	879.9	878.2	876.8	875.5	874.1	872.8	871.4
130°	930.1	928.9	927.3	925.3	923.3	921.3	919.2
132.5°	978.2	976.8	975.3	973.8	972.2	970.6	969.1
135°	1050.8	1049.6	1048.8	1048.2	1047.6	1047.1	1046.5
137.5°	1121.5	1120.3	1119.1	1118.0	1117.0	1115.9	1114.7
140°	1169.0	1168.6	1167.5	1165.4	1163.5	1161.4	1159.4
142.5°	1212.5	1212.3	1211.3	1209.8	1208.2	1206.7	1205.1
145°	1276.7	1276.4	1275.7	1274.5	1273.4	1272.2	1271.1
147.5°	1337.6	1337.6	1336.7	1335.0	1333.3	1331.5	1329.7
150°	1374.9	1374.9	1374.1	1372.3	1370.6	1368.9	1367.2
152.5°	1409.5	1410.1	1409.5	1408.0	1406.5	1405.0	1403.5
155°	1460.2	1461.4	1460.9	1458.9	1456.9	1454.8	1452.9
157.5°	1503.2	1504.4	1504.3	1502.6	1501.0	1499.3	1497.8
160°	1529.9	1531.3	1531.5	1530.3	1529.1	1528.0	1526.8
162.5°	1554.8	1556.3	1556.1	1554.2	1552.4	1550.5	1548.7
165°	1586.6	1588.3	1588.2	1586.1	1584.2	1582.1	1580.1
167.5°	1612.2	1613.9	1613.9	1612.2	1610.4	1608.6	1606.8
170°	1626.4	1628.4	1628.4	1626.4	1624.4	1622.4	1620.3
172.5°	1637.1	1638.9	1638.8	1636.8	1634.8	1632.7	1630.7
175°	1648.9	1650.6	1650.5	1648.5	1646.4	1644.4	1642.4
177.5°	1653.8	1655.2	1655.1	1653.5	1651.8	1650.3	1648.6
180°	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8	1652.8

(END OF REPORT)