

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: P332439-840

Luminaire Tested: **S123RDIW-S775D1030U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332439-840
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-S775D1030U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6687.5 lumens
Efficiency: N/A
Efficacy: 127.1 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

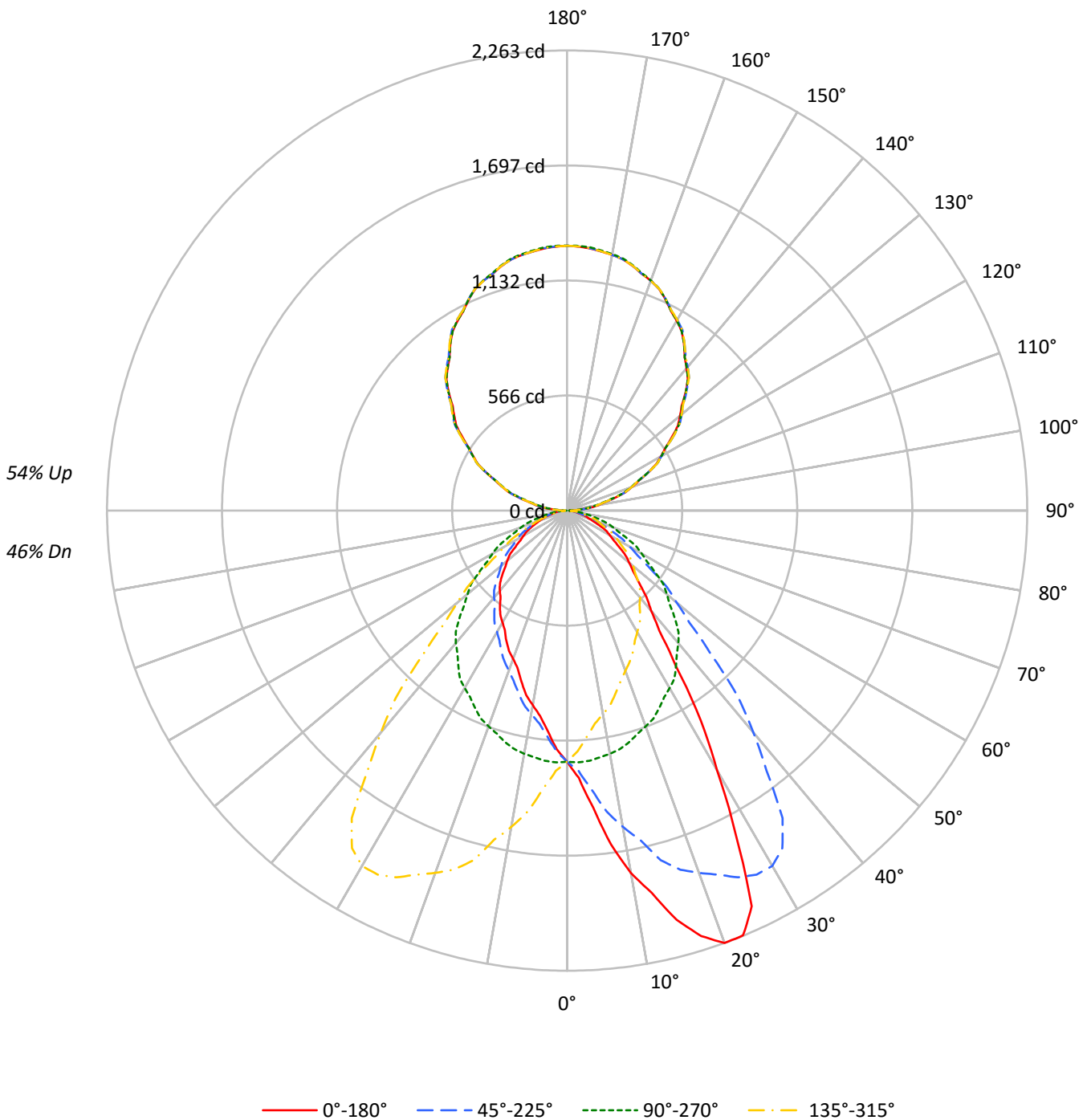
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-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	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	47	46	45	40
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	41	39	34
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	38	36	34	32	30	26
5	69	58	50	44	63	54	47	42	45	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	34	31	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13295	13295	13295	13295
5°	15847	13351	11757	13351
10°	19787	13274	10622	13274
15°	23226	13138	9686	13138
20°	25921	12936	8891	12936
25°	25508	12722	8402	12722
30°	18334	12525	7899	12525
35°	12242	12269	7573	12269
40°	9020	11960	7235	11960
45°	7566	11420	6905	11420
50°	6677	10712	6445	10712
55°	5853	9903	5814	9903
60°	5214	9128	5326	9128
65°	4579	8295	4956	8295
70°	3594	7553	4526	7553
75°	3165	6596	4134	6596
80°	2752	5604	4060	5604
85°	2223	4508	4310	4508



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.8
10°-20°	379.5	5.7
20°-30°	596.1	8.9
30°-40°	621.9	9.3
40°-50°	532.3	8.0
50°-60°	405.7	6.1
60°-70°	260.0	3.9
70°-80°	125.1	1.9
80°-90°	37.0	0.6
90°-100°	84.9	1.3
100°-110°	254.0	3.8
110°-120°	431.9	6.5
120°-130°	568.1	8.5
130°-140°	638.6	9.5
140°-150°	627.7	9.4
150°-160°	528.4	7.9
160°-170°	351.8	5.3
170°-180°	123.2	1.8
0°-30°	1097.0	16.4
0°-40°	1719.0	25.7
0°-60°	2656.9	39.7
0°-90°	3079.0	46.0
90°-120°	770.8	11.5
90°-150°	2605.2	39.0
90°-180°	3609.0	54.0
0°-180°	6687.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1235	1235	1235	1235	1235	
5°	1467	1236	1088	1236	1467	151
15°	2084	1179	869	1179	2084	591
25°	2148	1071	707	1071	2148	923
35°	932	934	576	934	932	611
45°	497	750	454	750	497	391
55°	312	528	310	528	312	282
65°	180	326	195	326	180	177
75°	76	159	99	159	76	82
85°	18	36	35	36	18	21
90°	31	1	31	1	31	15
95°	80	60	80	60	80	82
105°	244	230	244	230	244	258
115°	436	435	436	435	436	432
125°	629	636	629	636	629	563
135°	825	826	825	826	825	634
145°	1002	1002	1002	1002	1002	625
155°	1145	1147	1145	1147	1145	527
165°	1245	1249	1245	1249	1245	351
175°	1294	1299	1294	1299	1294	123
180°	1302	1302	1302	1302	1302	



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1315.5	1317.2	1311.6	1310.8	1304.4	1302.7	1302.7	1293.8	1288.4	1281.2	1277.0
5°	1466.6	1475.1	1470.9	1461.4	1445.5	1441.8	1431.8	1415.9	1398.0	1375.7	1365.1
7.5°	1655.5	1667.1	1662.6	1647.9	1631.3	1617.9	1589.5	1563.2	1526.3	1493.9	1466.2
10°	1810.3	1798.2	1788.7	1774.3	1759.1	1734.1	1704.6	1663.9	1616.8	1579.8	1538.5
12.5°	1926.2	1924.2	1912.2	1897.4	1875.8	1852.2	1815.8	1766.3	1711.5	1658.1	1610.9
15°	2084.2	2087.4	2079.4	2064.1	2033.5	1991.7	1936.7	1916.0	1837.9	1779.7	1721.5
17.5°	2193.5	2192.9	2191.8	2170.6	2139.3	2109.6	2058.6	2004.4	1933.5	1851.6	1773.2
20°	2262.9	2257.7	2258.7	2234.8	2211.6	2177.3	2127.6	2048.8	1990.6	1896.0	1815.0
22.5°	2261.2	2260.2	2264.2	2256.0	2239.1	2212.8	2173.6	2107.2	2033.0	1937.4	1846.3
25°	2147.7	2143.4	2168.3	2175.1	2202.1	2206.9	2195.2	2158.8	2088.4	1990.0	1877.4
27.5°	1797.5	1795.1	1841.2	1899.0	1972.1	2029.0	2084.0	2110.5	2088.4	2018.0	1905.2
30°	1475.1	1524.8	1548.1	1631.6	1724.6	1835.7	1933.0	2025.5	2048.2	2017.6	1925.0
32.5°	1224.8	1268.1	1287.5	1359.2	1445.9	1576.0	1721.9	1852.9	1945.5	1968.9	1913.2
35°	931.6	932.1	976.5	1008.2	1088.6	1222.3	1364.1	1539.6	1714.0	1846.2	1860.0
37.5°	743.4	746.0	772.8	804.5	864.7	935.5	1060.3	1206.2	1407.8	1610.6	1729.6
40°	641.9	646.6	666.7	697.9	741.2	794.7	891.9	1029.5	1197.5	1423.3	1607.8
42.5°	576.7	584.4	594.8	618.8	645.7	695.7	774.4	880.5	1033.4	1246.9	1459.8
45°	497.0	501.2	509.2	520.3	544.6	579.5	632.4	703.7	830.6	1002.5	1215.5
47.5°	438.4	436.2	444.5	453.5	469.7	493.5	529.0	587.2	677.7	815.6	996.3
50°	398.7	398.1	403.9	410.8	426.2	443.6	472.7	516.5	588.4	702.7	868.2
52.5°	361.4	363.5	367.6	376.2	387.2	401.3	427.4	459.0	520.8	619.4	757.3
55°	311.9	313.6	319.3	324.1	332.0	346.3	362.7	389.1	431.4	500.2	613.8
57.5°	270.0	269.3	274.9	276.1	285.1	296.7	309.4	329.9	360.6	411.6	488.2
60°	242.2	240.5	245.3	249.0	253.8	263.3	273.9	294.0	318.3	355.8	421.4
62.5°	216.8	216.0	219.5	223.2	227.1	235.8	244.7	260.1	279.3	311.0	363.0
65°	179.8	181.4	182.9	184.5	186.6	191.9	200.4	211.0	224.2	246.4	283.9
67.5°	141.3	142.9	143.4	146.6	151.2	154.5	159.7	169.1	178.2	197.0	218.3
70°	114.2	113.7	114.2	115.8	121.6	127.4	134.3	141.2	146.9	160.2	178.1
72.5°	98.2	97.1	98.6	98.9	101.7	103.3	107.7	114.1	121.6	130.6	143.5
75°	76.1	76.1	76.1	76.1	78.3	79.3	80.9	82.5	85.1	89.4	98.9
77.5°	56.2	56.4	57.1	57.7	58.1	58.7	59.7	61.2	62.2	64.4	68.6
80°	44.4	44.9	44.4	44.9	44.9	45.9	46.6	48.1	48.7	51.3	52.9
82.5°	33.4	33.1	33.4	33.9	33.9	35.0	35.1	36.3	36.4	37.8	39.4
85°	18.0	17.0	18.0	17.5	18.5	17.5	18.0	19.0	19.0	19.6	21.7
87.5°	10.4	11.1	10.2	10.5	10.4	10.7	10.5	10.3	11.0	10.4	10.2
90°	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4	25.4	24.5	21.6
92.5°	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7	40.0	39.3	37.6
95°	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6	76.6	75.7	73.9
97.5°	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6	119.6	118.5	117.1
100°	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8	151.1	150.4	149.3
102.5°	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7	187.1	186.4	184.9
105°	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5	241.5	241.5	239.4
107.5°	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6	298.8	298.1	297.3
110°	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4	337.5	336.6	336.2



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3	376.2	375.1	375.0
115°	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3	436.1	435.9	436.3
117.5°	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9	495.9	496.0	496.6
120°	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6	535.8	536.1	537.2
122.5°	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8	576.4	577.0	577.6
125°	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6	636.5	637.4	637.8
127.5°	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6	695.9	697.1	697.6
130°	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8	734.7	735.6	736.3
132.5°	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9	773.0	774.1	774.6
135°	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9	829.8	830.7	831.0
137.5°	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7	885.7	886.7	886.1
140°	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4	921.6	921.8	921.6
142.5°	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7	955.9	956.2	955.8
145°	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3	1006.5	1006.7	1006.0
147.5°	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0	1054.0	1054.0	1053.4
150°	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5	1083.5	1083.5	1083.0
152.5°	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3	1110.0	1109.6	1109.4
155°	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7	1148.8	1147.9	1147.7
157.5°	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6	1182.7	1181.6	1181.5
160°	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5	1203.3	1202.1	1202.1
162.5°	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1	1222.9	1221.8	1221.6
165°	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9	1247.5	1246.2	1246.2
167.5°	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2	1266.1
170°	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9	1276.9
172.5°	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7	1287.3	1285.9	1285.9
175°	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0	1296.7	1295.3	1295.3
177.5°	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1	1301.0	1300.0	1300.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1275.3	1273.9	1268.1	1261.3	1252.4	1246.5	1241.8	1239.3	1231.7	1222.3	1216.1
5°	1354.0	1338.2	1321.3	1300.6	1281.6	1262.0	1249.9	1235.6	1218.2	1198.6	1184.9
7.5°	1438.5	1407.3	1373.8	1339.3	1305.0	1274.4	1247.4	1224.2	1196.4	1168.3	1148.7
10°	1503.2	1457.6	1410.6	1362.5	1318.6	1277.4	1245.7	1214.5	1181.1	1148.9	1124.6
12.5°	1562.0	1502.1	1447.8	1388.8	1332.6	1283.3	1237.6	1200.9	1160.8	1126.5	1098.7
15°	1636.4	1575.1	1509.4	1419.6	1345.0	1282.6	1227.2	1179.0	1130.4	1088.1	1061.2
17.5°	1706.0	1613.7	1525.6	1450.6	1353.7	1275.8	1208.0	1150.4	1097.1	1052.3	1019.1
20°	1734.7	1645.4	1549.6	1454.0	1358.8	1271.5	1192.8	1129.3	1073.8	1023.1	992.4
22.5°	1752.0	1650.8	1550.0	1447.2	1346.2	1255.5	1177.6	1107.7	1047.6	999.4	961.5
25°	1772.2	1651.7	1540.7	1439.2	1336.1	1237.7	1145.2	1071.2	1006.1	954.8	914.6
27.5°	1785.5	1643.8	1512.6	1399.7	1295.2	1197.2	1112.4	1034.0	968.0	913.7	870.6
30°	1788.1	1637.4	1491.0	1368.9	1262.5	1172.7	1082.8	1007.7	938.0	880.3	840.1
32.5°	1791.5	1621.7	1461.8	1332.0	1223.2	1134.2	1052.8	981.1	909.6	852.8	811.8
35°	1777.6	1613.2	1417.4	1268.4	1159.4	1073.3	999.8	933.7	863.4	808.4	766.6
37.5°	1717.5	1578.7	1371.6	1196.7	1082.8	1003.0	943.1	885.4	821.0	761.6	722.4
40°	1657.0	1544.9	1336.1	1153.2	1034.2	952.2	898.3	851.2	788.8	733.4	691.1
42.5°	1566.9	1498.8	1302.2	1107.4	979.2	900.2	854.7	810.6	755.9	699.5	659.7
45°	1401.6	1410.6	1232.9	1034.7	903.0	823.7	780.9	750.2	701.7	655.1	614.4
47.5°	1194.4	1278.4	1151.7	957.2	822.7	748.3	710.9	684.2	651.4	605.7	568.6
50°	1059.0	1179.0	1086.5	905.1	772.4	698.4	661.5	639.7	611.2	575.2	539.8
52.5°	934.2	1063.2	1007.8	847.2	717.9	650.3	614.1	596.2	573.5	539.7	507.7
55°	761.8	892.5	879.8	759.7	636.0	575.2	547.8	527.7	512.3	487.0	461.6
57.5°	616.3	740.1	746.7	662.5	563.9	503.8	480.2	465.0	455.0	435.9	412.4
60°	524.5	638.1	660.4	596.9	512.3	459.5	436.2	424.0	416.1	400.8	382.8
62.5°	448.4	545.1	570.3	524.6	462.8	413.3	395.2	383.4	378.0	364.8	348.9
65°	343.2	423.5	447.8	422.4	390.2	350.5	335.8	325.7	320.9	313.6	301.8
67.5°	258.0	316.6	343.3	325.4	313.8	288.7	279.2	273.9	269.6	264.6	254.9
70°	207.2	250.6	278.1	273.4	263.9	250.6	243.8	240.0	235.8	231.6	223.1
72.5°	166.6	196.5	222.3	224.7	216.9	214.2	208.2	206.6	204.1	199.0	194.4
75°	110.5	131.1	149.1	155.9	159.2	161.8	159.2	158.6	158.0	153.9	151.2
77.5°	72.4	83.5	94.8	106.5	111.6	115.1	116.0	118.0	116.5	114.3	113.0
80°	55.5	58.2	66.0	76.1	84.0	87.3	89.4	90.4	89.9	89.4	87.3
82.5°	40.3	42.5	46.3	53.3	60.0	65.2	66.6	66.3	67.5	67.8	66.0
85°	21.7	22.2	23.2	24.3	28.0	33.8	35.4	36.5	37.6	37.6	34.3
87.5°	10.5	9.5	9.7	9.2	10.0	10.0	12.1	13.7	14.6	13.3	13.8
90°	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0	3.3	5.6	7.9
92.5°	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7	26.3	27.9	29.4
95°	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4	61.9	63.5	65.1
97.5°	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2	108.4	109.6	110.8
100°	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2	140.5	141.9	143.2
102.5°	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0	176.8	177.6	178.4
105°	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2	230.7	231.2	231.6
107.5°	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3	293.5	293.8	294.1
110°	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5	333.0	333.5	333.9



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4	373.8	374.0	374.3
115°	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8	435.5	436.2	436.9
117.5°	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7	497.1	497.6	498.0
120°	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1	536.4	537.9	539.2
122.5°	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2	576.2	577.2	578.1
125°	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4	637.0	637.7	638.4
127.5°	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9	694.3	695.8	697.2
130°	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5	732.4	734.2	736.0
132.5°	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1	769.9	771.7	773.7
135°	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7	827.0	828.4	829.7
137.5°	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9	880.0	881.1	882.2
140°	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6	916.9	918.0	919.1
142.5°	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3	950.4	951.5	952.6
145°	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6	1002.1	1002.5	1003.0
147.5°	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4	1048.2	1049.0	1050.0
150°	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3	1079.8	1080.3	1080.8
152.5°	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6	1106.2	1106.8	1107.5
155°	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1	1181.8	1181.5	1181.2
160°	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2	1203.8	1203.3	1202.9
162.5°	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9	1223.2	1222.5	1221.9
165°	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2	1248.5	1247.9	1247.2
167.5°	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5	1268.6	1267.7	1266.8
170°	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9	1280.0	1279.1	1278.2
172.5°	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9	1289.0	1288.1	1287.2
175°	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4	1298.5	1297.6	1296.7
177.5°	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2	1302.5	1301.8	1301.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1214.0	1208.4	1204.7	1196.2	1190.6	1184.8	1178.8	1182.7	1182.2	1181.7	1181.7
5°	1173.3	1161.0	1149.9	1135.7	1126.7	1115.6	1107.1	1106.1	1108.2	1100.8	1096.5
7.5°	1132.9	1116.2	1100.4	1084.7	1068.0	1054.7	1046.3	1042.4	1037.0	1032.5	1027.7
10°	1104.5	1084.9	1069.5	1050.1	1032.1	1016.2	1006.1	999.3	995.5	991.9	985.0
12.5°	1075.3	1056.1	1036.6	1014.5	997.3	979.0	971.5	963.7	956.6	952.5	943.1
15°	1032.6	1007.7	987.1	963.8	944.8	926.9	916.3	900.9	898.8	893.5	884.0
17.5°	989.8	962.8	934.3	917.2	895.6	877.0	860.8	855.7	840.5	834.9	826.6
20°	955.9	931.1	909.4	886.7	855.5	838.0	825.4	818.5	806.3	798.9	793.6
22.5°	926.8	901.5	876.4	849.9	824.2	804.6	795.3	784.6	778.0	767.6	761.8
25°	885.0	857.6	827.5	798.9	780.4	765.6	750.7	741.2	731.7	727.0	716.4
27.5°	836.7	807.9	779.7	758.1	735.4	720.7	707.3	698.8	687.4	679.4	673.6
30°	810.0	776.2	751.8	732.3	703.2	689.4	679.4	668.8	660.4	651.9	646.1
32.5°	779.1	748.2	725.2	700.9	678.6	663.7	650.7	641.4	634.1	626.1	620.3
35°	730.6	704.8	681.0	656.6	640.3	624.9	609.7	601.7	594.8	587.4	582.1
37.5°	686.9	662.7	640.1	617.0	596.7	584.2	571.9	565.8	556.5	551.6	546.1
40°	659.8	636.0	611.7	589.6	568.4	558.9	547.8	538.8	530.3	526.6	520.8
42.5°	630.3	606.4	585.9	562.0	544.7	531.8	521.5	511.7	505.3	500.0	496.7
45°	586.3	565.2	545.1	521.3	504.9	493.8	482.2	473.2	467.4	463.7	457.9
47.5°	543.7	522.6	502.2	481.4	465.5	452.9	441.3	435.0	427.3	422.7	418.9
50°	512.8	493.8	472.1	453.1	437.3	424.5	415.1	407.1	400.2	394.5	391.8
52.5°	484.5	464.2	445.5	427.8	411.0	396.7	388.0	379.6	374.5	367.8	364.7
55°	437.8	418.2	402.3	384.9	368.5	356.4	345.8	338.4	333.1	325.7	321.4
57.5°	393.8	376.4	357.4	342.2	325.4	315.1	306.3	296.3	289.8	284.1	279.9
60°	364.3	344.2	327.8	313.6	298.7	285.5	277.6	269.6	262.8	256.9	253.3
62.5°	333.5	315.9	300.3	284.8	271.2	259.7	250.5	243.9	237.8	234.1	230.5
65°	286.0	272.3	256.4	243.8	231.1	222.6	215.2	209.3	205.1	202.5	199.3
67.5°	242.5	229.1	215.3	202.8	194.4	187.9	183.1	178.0	175.9	172.6	170.5
70°	214.1	200.4	188.2	178.7	170.3	165.5	162.3	158.6	156.5	152.3	150.2
72.5°	183.3	173.3	164.5	156.7	150.0	145.6	141.6	137.0	133.7	129.0	126.9
75°	144.3	135.3	128.5	123.2	119.0	113.1	107.3	102.6	101.0	99.4	98.9
77.5°	106.9	101.2	96.2	91.8	86.5	82.3	81.0	80.0	79.6	78.8	78.8
80°	84.0	78.8	75.0	69.8	66.7	66.7	66.7	65.5	66.0	66.0	66.0
82.5°	62.5	57.7	55.6	53.7	53.1	53.5	53.5	53.7	53.4	54.2	53.8
85°	32.2	32.8	33.8	33.3	33.8	33.8	34.9	34.3	34.9	33.8	34.9
87.5°	13.8	15.7	16.7	17.7	18.7	18.9	19.5	19.7	20.3	20.4	20.6
90°	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4	27.3	28.2	28.9
92.5°	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7	41.5	42.2	42.4
95°	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6	78.5	79.4	79.8
97.5°	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6	121.6	122.7	123.1
100°	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8	152.5	153.1	153.7
102.5°	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7	188.4	189.1	189.5
105°	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5	241.5	241.5	241.7
107.5°	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6	300.3	301.0	301.2
110°	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4	339.3	340.2	340.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3	378.3	379.4	379.9
115°	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3	436.6	436.8	436.8
117.5°	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9	495.8	495.8	495.4
120°	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6	535.4	535.2	534.8
122.5°	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8	575.2	574.7	574.0
125°	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6	634.7	633.8	632.9
127.5°	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6	693.4	692.1	690.8
130°	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8	732.9	732.0	730.7
132.5°	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9	770.8	769.7	768.6
135°	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9	828.0	827.1	826.5
137.5°	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7	883.7	882.8	881.9
140°	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4	921.1	920.9	920.0
142.5°	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7	955.5	955.3	954.5
145°	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3	1006.0	1005.8	1005.2
147.5°	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0	1054.0	1054.0	1053.3
150°	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5	1083.5	1083.5	1082.8
152.5°	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3	1110.8	1111.2	1110.8
155°	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7	1150.6	1151.5	1151.2
157.5°	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6	1184.6	1185.5	1185.4
160°	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5	1205.6	1206.7	1206.8
162.5°	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1	1225.2	1226.4	1226.2
165°	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9	1250.2	1251.6	1251.5
167.5°	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8
170°	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2
172.5°	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7	1290.1	1291.5	1291.4
175°	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0	1299.4	1300.7	1300.6
177.5°	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1	1303.2	1304.3	1304.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1176.7	1176.3	1176.7	1175.0	1176.7	1176.3	1176.7	1181.7	1181.7	1182.2	1182.7
5°	1095.0	1094.4	1092.9	1088.1	1092.9	1094.4	1095.0	1096.5	1100.8	1108.2	1106.1
7.5°	1023.6	1022.9	1018.2	1018.3	1018.2	1022.9	1023.6	1027.7	1032.5	1037.0	1042.4
10°	981.3	981.8	975.5	971.8	975.5	981.8	981.3	985.0	991.9	995.5	999.3
12.5°	940.3	937.9	932.7	928.7	932.7	937.9	940.3	943.1	952.5	956.6	963.7
15°	886.2	880.8	868.2	869.2	868.2	880.8	886.2	884.0	893.5	898.8	900.9
17.5°	822.3	818.5	818.2	810.8	818.2	818.5	822.3	826.6	834.9	840.5	855.7
20°	785.2	782.5	783.6	776.2	783.6	782.5	785.2	793.6	798.9	806.3	818.5
22.5°	756.0	753.4	748.9	746.6	748.9	753.4	756.0	761.8	767.6	778.0	784.6
25°	713.3	709.0	704.8	707.4	704.8	709.0	713.3	716.4	727.0	731.7	741.2
27.5°	670.6	667.3	663.1	662.6	663.1	667.3	670.6	673.6	679.4	687.4	698.8
30°	643.5	640.3	638.1	635.5	638.1	640.3	643.5	646.1	651.9	660.4	668.8
32.5°	615.9	615.3	611.5	611.0	611.5	615.3	615.9	620.3	626.1	634.1	641.4
35°	580.0	576.8	575.7	576.3	575.7	576.8	580.0	582.1	587.4	594.8	601.7
37.5°	545.8	541.6	539.7	537.9	539.7	541.6	545.8	546.1	551.6	556.5	565.8
40°	521.3	517.1	516.0	514.9	516.0	517.1	521.3	520.8	526.6	530.3	538.8
42.5°	493.8	492.1	491.5	489.6	491.5	492.1	493.8	496.7	500.0	505.3	511.7
45°	456.3	455.8	452.6	453.6	452.6	455.8	456.3	457.9	463.7	467.4	473.2
47.5°	416.8	414.4	412.2	413.6	412.2	414.4	416.8	418.9	422.7	427.3	435.0
50°	389.7	388.6	383.8	384.9	383.8	388.6	389.7	391.8	394.5	400.2	407.1
52.5°	362.6	358.6	356.8	356.2	356.8	358.6	362.6	364.7	367.8	374.5	379.6
55°	317.8	313.0	310.8	309.8	310.8	313.0	317.8	321.4	325.7	333.1	338.4
57.5°	273.8	272.5	270.8	272.0	270.8	272.5	273.8	279.9	284.1	289.8	296.3
60°	247.9	247.9	247.9	247.4	247.9	247.9	247.9	253.3	256.9	262.8	269.6
62.5°	228.1	226.8	226.4	227.1	226.4	226.8	228.1	230.5	234.1	237.8	243.9
65°	197.7	197.2	195.1	194.6	195.1	197.2	197.7	199.3	202.5	205.1	209.3
67.5°	169.1	167.1	166.5	165.8	166.5	167.1	169.1	170.5	172.6	175.9	178.0
70°	147.5	146.4	143.3	143.8	143.3	146.4	147.5	150.2	152.3	156.5	158.6
72.5°	124.2	123.2	122.6	121.8	122.6	123.2	124.2	126.9	129.0	133.7	137.0
75°	98.4	97.9	97.3	99.4	97.3	97.9	98.4	98.9	99.4	101.0	102.6
77.5°	78.8	78.8	79.1	78.3	79.1	78.8	78.8	78.8	78.8	79.6	80.0
80°	66.0	66.0	65.5	65.5	65.5	66.0	66.0	66.0	66.0	66.0	65.5
82.5°	53.0	53.4	53.7	52.9	53.7	53.4	53.0	53.8	54.2	53.4	53.7
85°	34.9	34.3	35.4	34.9	35.4	34.3	34.9	34.9	33.8	34.9	34.3
87.5°	21.5	20.8	20.8	21.4	20.8	20.8	21.5	20.6	20.4	20.3	19.7
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4
92.5°	42.1	41.9	41.6	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7
95°	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6
97.5°	123.0	123.0	122.9	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6
100°	154.1	154.6	155.0	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8
102.5°	189.3	189.2	189.1	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7
105°	242.2	242.6	243.1	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5
107.5°	301.0	300.7	300.4	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6
110°	340.0	339.5	339.1	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	379.8	379.7	379.7	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3
115°	436.6	436.3	436.1	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3
117.5°	494.8	494.2	493.5	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9
120°	534.4	533.9	533.5	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6
122.5°	573.4	572.8	572.2	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8
125°	632.0	631.1	630.2	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6
127.5°	689.8	688.8	687.7	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6
130°	729.1	727.5	726.0	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8
132.5°	767.3	766.1	764.9	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9
135°	826.0	825.6	825.1	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9
137.5°	881.0	880.2	879.3	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7
140°	918.4	916.9	915.2	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4
142.5°	953.3	952.1	950.9	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7
145°	1004.3	1003.4	1002.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3
147.5°	1052.0	1050.6	1049.2	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0
150°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5
152.5°	1109.5	1108.3	1107.1	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3
155°	1149.6	1148.0	1146.5	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7
157.5°	1184.1	1182.9	1181.5	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6
160°	1205.9	1205.0	1204.1	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5
162.5°	1224.8	1223.2	1221.8	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1
165°	1249.9	1248.3	1246.7	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9
167.5°	1270.4	1269.0	1267.6	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0
170°	1281.6	1280.0	1278.4	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0
172.5°	1289.8	1288.2	1286.6	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7
175°	1299.0	1297.4	1295.9	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0
177.5°	1302.9	1301.7	1300.4	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1178.8	1184.8	1190.6	1196.2	1204.7	1208.4	1214.0	1216.1	1222.3	1231.7	1239.3
5°	1107.1	1115.6	1126.7	1135.7	1149.9	1161.0	1173.3	1184.9	1198.6	1218.2	1235.6
7.5°	1046.3	1054.7	1068.0	1084.7	1100.4	1116.2	1132.9	1148.7	1168.3	1196.4	1224.2
10°	1006.1	1016.2	1032.1	1050.1	1069.5	1084.9	1104.5	1124.6	1148.9	1181.1	1214.5
12.5°	971.5	979.0	997.3	1014.5	1036.6	1056.1	1075.3	1098.7	1126.5	1160.8	1200.9
15°	916.3	926.9	944.8	963.8	987.1	1007.7	1032.6	1061.2	1088.1	1130.4	1179.0
17.5°	860.8	877.0	895.6	917.2	934.3	962.8	989.8	1019.1	1052.3	1097.1	1150.4
20°	825.4	838.0	855.5	886.7	909.4	931.1	955.9	992.4	1023.1	1073.8	1129.3
22.5°	795.3	804.6	824.2	849.9	876.4	901.5	926.8	961.5	999.4	1047.6	1107.7
25°	750.7	765.6	780.4	798.9	827.5	857.6	885.0	914.6	954.8	1006.1	1071.2
27.5°	707.3	720.7	735.4	758.1	779.7	807.9	836.7	870.6	913.7	968.0	1034.0
30°	679.4	689.4	703.2	732.3	751.8	776.2	810.0	840.1	880.3	938.0	1007.7
32.5°	650.7	663.7	678.6	700.9	725.2	748.2	779.1	811.8	852.8	909.6	981.1
35°	609.7	624.9	640.3	656.6	681.0	704.8	730.6	766.6	808.4	863.4	933.7
37.5°	571.9	584.2	596.7	617.0	640.1	662.7	686.9	722.4	761.6	821.0	885.4
40°	547.8	558.9	568.4	589.6	611.7	636.0	659.8	691.1	733.4	788.8	851.2
42.5°	521.5	531.8	544.7	562.0	585.9	606.4	630.3	659.7	699.5	755.9	810.6
45°	482.2	493.8	504.9	521.3	545.1	565.2	586.3	614.4	655.1	701.7	750.2
47.5°	441.3	452.9	465.5	481.4	502.2	522.6	543.7	568.6	605.7	651.4	684.2
50°	415.1	424.5	437.3	453.1	472.1	493.8	512.8	539.8	575.2	611.2	639.7
52.5°	388.0	396.7	411.0	427.8	445.5	464.2	484.5	507.7	539.7	573.5	596.2
55°	345.8	356.4	368.5	384.9	402.3	418.2	437.8	461.6	487.0	512.3	527.7
57.5°	306.3	315.1	325.4	342.2	357.4	376.4	393.8	412.4	435.9	455.0	465.0
60°	277.6	285.5	298.7	313.6	327.8	344.2	364.3	382.8	400.8	416.1	424.0
62.5°	250.5	259.7	271.2	284.8	300.3	315.9	333.5	348.9	364.8	378.0	383.4
65°	215.2	222.6	231.1	243.8	256.4	272.3	286.0	301.8	313.6	320.9	325.7
67.5°	183.1	187.9	194.4	202.8	215.3	229.1	242.5	254.9	264.6	269.6	273.9
70°	162.3	165.5	170.3	178.7	188.2	200.4	214.1	223.1	231.6	235.8	240.0
72.5°	141.6	145.6	150.0	156.7	164.5	173.3	183.3	194.4	199.0	204.1	206.6
75°	107.3	113.1	119.0	123.2	128.5	135.3	144.3	151.2	153.9	158.0	158.6
77.5°	81.0	82.3	86.5	91.8	96.2	101.2	106.9	113.0	114.3	116.5	118.0
80°	66.7	66.7	66.7	69.8	75.0	78.8	84.0	87.3	89.4	89.9	90.4
82.5°	53.5	53.5	53.1	53.7	55.6	57.7	62.5	66.0	67.8	67.5	66.3
85°	34.9	33.8	33.8	33.3	33.8	32.8	32.2	34.3	37.6	37.6	36.5
87.5°	19.5	18.9	18.7	17.7	16.7	15.7	13.8	13.8	13.3	14.6	13.7
90°	25.4	24.5	21.6	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0
92.5°	40.0	39.3	37.6	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7
95°	76.6	75.7	73.9	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4
97.5°	119.6	118.5	117.1	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2
100°	151.1	150.4	149.3	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2
102.5°	187.1	186.4	184.9	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0
105°	241.5	241.5	239.4	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2
107.5°	298.8	298.1	297.3	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3
110°	337.5	336.6	336.2	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	376.2	375.1	375.0	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4
115°	436.1	435.9	436.3	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8
117.5°	495.9	496.0	496.6	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7
120°	535.8	536.1	537.2	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1
122.5°	576.4	577.0	577.6	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2
125°	636.5	637.4	637.8	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4
127.5°	695.9	697.1	697.6	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9
130°	734.7	735.6	736.3	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5
132.5°	773.0	774.1	774.6	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1
135°	829.8	830.7	831.0	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7
137.5°	885.7	886.7	886.1	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9
140°	921.6	921.8	921.6	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6
142.5°	955.9	956.2	955.8	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3
145°	1006.5	1006.7	1006.0	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6
147.5°	1054.0	1054.0	1053.4	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4
150°	1083.5	1083.5	1083.0	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3
152.5°	1110.0	1109.6	1109.4	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6
155°	1148.8	1147.9	1147.7	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1182.7	1181.6	1181.5	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1
160°	1203.3	1202.1	1202.1	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2
162.5°	1222.9	1221.8	1221.6	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9
165°	1247.5	1246.2	1246.2	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2
167.5°	1267.6	1266.2	1266.1	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5
170°	1278.4	1276.9	1276.9	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9
172.5°	1287.3	1285.9	1285.9	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9
175°	1296.7	1295.3	1295.3	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4
177.5°	1301.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1241.8	1246.5	1252.4	1261.3	1268.1	1273.9	1275.3	1277.0	1281.2	1288.4	1293.8
5°	1249.9	1262.0	1281.6	1300.6	1321.3	1338.2	1354.0	1365.1	1375.7	1398.0	1415.9
7.5°	1247.4	1274.4	1305.0	1339.3	1373.8	1407.3	1438.5	1466.2	1493.9	1526.3	1563.2
10°	1245.7	1277.4	1318.6	1362.5	1410.6	1457.6	1503.2	1538.5	1579.8	1616.8	1663.9
12.5°	1237.6	1283.3	1332.6	1388.8	1447.8	1502.1	1562.0	1610.9	1658.1	1711.5	1766.3
15°	1227.2	1282.6	1345.0	1419.6	1509.4	1575.1	1636.4	1721.5	1779.7	1837.9	1916.0
17.5°	1208.0	1275.8	1353.7	1450.6	1525.6	1613.7	1706.0	1773.2	1851.6	1933.5	2004.4
20°	1192.8	1271.5	1358.8	1454.0	1549.6	1645.4	1734.7	1815.0	1896.0	1990.6	2048.8
22.5°	1177.6	1255.5	1346.2	1447.2	1550.0	1650.8	1752.0	1846.3	1937.4	2033.0	2107.2
25°	1145.2	1237.7	1336.1	1439.2	1540.7	1651.7	1772.2	1877.4	1990.0	2088.4	2158.8
27.5°	1112.4	1197.2	1295.2	1399.7	1512.6	1643.8	1785.5	1905.2	2018.0	2088.4	2110.5
30°	1082.8	1172.7	1262.5	1368.9	1491.0	1637.4	1788.1	1925.0	2017.6	2048.2	2025.5
32.5°	1052.8	1134.2	1223.2	1332.0	1461.8	1621.7	1791.5	1913.2	1968.9	1945.5	1852.9
35°	999.8	1073.3	1159.4	1268.4	1417.4	1613.2	1777.6	1860.0	1846.2	1714.0	1539.6
37.5°	943.1	1003.0	1082.8	1196.7	1371.6	1578.7	1717.5	1729.6	1610.6	1407.8	1206.2
40°	898.3	952.2	1034.2	1153.2	1336.1	1544.9	1657.0	1607.8	1423.3	1197.5	1029.5
42.5°	854.7	900.2	979.2	1107.4	1302.2	1498.8	1566.9	1459.8	1246.9	1033.4	880.5
45°	780.9	823.7	903.0	1034.7	1232.9	1410.6	1401.6	1215.5	1002.5	830.6	703.7
47.5°	710.9	748.3	822.7	957.2	1151.7	1278.4	1194.4	996.3	815.6	677.7	587.2
50°	661.5	698.4	772.4	905.1	1086.5	1179.0	1059.0	868.2	702.7	588.4	516.5
52.5°	614.1	650.3	717.9	847.2	1007.8	1063.2	934.2	757.3	619.4	520.8	459.0
55°	547.8	575.2	636.0	759.7	879.8	892.5	761.8	613.8	500.2	431.4	389.1
57.5°	480.2	503.8	563.9	662.5	746.7	740.1	616.3	488.2	411.6	360.6	329.9
60°	436.2	459.5	512.3	596.9	660.4	638.1	524.5	421.4	355.8	318.3	294.0
62.5°	395.2	413.3	462.8	524.6	570.3	545.1	448.4	363.0	311.0	279.3	260.1
65°	335.8	350.5	390.2	422.4	447.8	423.5	343.2	283.9	246.4	224.2	211.0
67.5°	279.2	288.7	313.8	325.4	343.3	316.6	258.0	218.3	197.0	178.2	169.1
70°	243.8	250.6	263.9	273.4	278.1	250.6	207.2	178.1	160.2	146.9	141.2
72.5°	208.2	214.2	216.9	224.7	222.3	196.5	166.6	143.5	130.6	121.6	114.1
75°	159.2	161.8	159.2	155.9	149.1	131.1	110.5	98.9	89.4	85.1	82.5
77.5°	116.0	115.1	111.6	106.5	94.8	83.5	72.4	68.6	64.4	62.2	61.2
80°	89.4	87.3	84.0	76.1	66.0	58.2	55.5	52.9	51.3	48.7	48.1
82.5°	66.6	65.2	60.0	53.3	46.3	42.5	40.3	39.4	37.8	36.4	36.3
85°	35.4	33.8	28.0	24.3	23.2	22.2	21.7	21.7	19.6	19.0	19.0
87.5°	12.1	10.0	10.0	9.2	9.7	9.5	10.5	10.2	10.4	11.0	10.3
90°	3.3	5.6	7.9	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4
92.5°	26.3	27.9	29.4	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7
95°	61.9	63.5	65.1	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6
97.5°	108.4	109.6	110.8	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6
100°	140.5	141.9	143.2	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8
102.5°	176.8	177.6	178.4	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7
105°	230.7	231.2	231.6	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5
107.5°	293.5	293.8	294.1	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6
110°	333.0	333.5	333.9	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.8	374.0	374.3	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3
115°	435.5	436.2	436.9	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3
117.5°	497.1	497.6	498.0	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9
120°	536.4	537.9	539.2	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6
122.5°	576.2	577.2	578.1	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8
125°	637.0	637.7	638.4	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6
127.5°	694.3	695.8	697.2	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6
130°	732.4	734.2	736.0	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8
132.5°	769.9	771.7	773.7	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9
135°	827.0	828.4	829.7	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9
137.5°	880.0	881.1	882.2	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7
140°	916.9	918.0	919.1	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4
142.5°	950.4	951.5	952.6	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7
145°	1002.1	1002.5	1003.0	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3
147.5°	1048.2	1049.0	1050.0	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0
150°	1079.8	1080.3	1080.8	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5
152.5°	1106.2	1106.8	1107.5	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3
155°	1146.9	1146.9	1146.9	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7
157.5°	1181.8	1181.5	1181.2	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6
160°	1203.8	1203.3	1202.9	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5
162.5°	1223.2	1222.5	1221.9	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1
165°	1248.5	1247.9	1247.2	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9
167.5°	1268.6	1267.7	1266.8	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0
170°	1280.0	1279.1	1278.2	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0
172.5°	1289.0	1288.1	1287.2	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7
175°	1298.5	1297.6	1296.7	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0
177.5°	1302.5	1301.8	1301.0	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1302.7	1302.7	1304.4	1310.8	1311.6	1317.2	1315.5
5°	1431.8	1441.8	1445.5	1461.4	1470.9	1475.1	1466.6
7.5°	1589.5	1617.9	1631.3	1647.9	1662.6	1667.1	1655.5
10°	1704.6	1734.1	1759.1	1774.3	1788.7	1798.2	1810.3
12.5°	1815.8	1852.2	1875.8	1897.4	1912.2	1924.2	1926.2
15°	1936.7	1991.7	2033.5	2064.1	2079.4	2087.4	2084.2
17.5°	2058.6	2109.6	2139.3	2170.6	2191.8	2192.9	2193.5
20°	2127.6	2177.3	2211.6	2234.8	2258.7	2257.7	2262.9
22.5°	2173.6	2212.8	2239.1	2256.0	2264.2	2260.2	2261.2
25°	2195.2	2206.9	2202.1	2175.1	2168.3	2143.4	2147.7
27.5°	2084.0	2029.0	1972.1	1899.0	1841.2	1795.1	1797.5
30°	1933.0	1835.7	1724.6	1631.6	1548.1	1524.8	1475.1
32.5°	1721.9	1576.0	1445.9	1359.2	1287.5	1268.1	1224.8
35°	1364.1	1222.3	1088.6	1008.2	976.5	932.1	931.6
37.5°	1060.3	935.5	864.7	804.5	772.8	746.0	743.4
40°	891.9	794.7	741.2	697.9	666.7	646.6	641.9
42.5°	774.4	695.7	645.7	618.8	594.8	584.4	576.7
45°	632.4	579.5	544.6	520.3	509.2	501.2	497.0
47.5°	529.0	493.5	469.7	453.5	444.5	436.2	438.4
50°	472.7	443.6	426.2	410.8	403.9	398.1	398.7
52.5°	427.4	401.3	387.2	376.2	367.6	363.5	361.4
55°	362.7	346.3	332.0	324.1	319.3	313.6	311.9
57.5°	309.4	296.7	285.1	276.1	274.9	269.3	270.0
60°	273.9	263.3	253.8	249.0	245.3	240.5	242.2
62.5°	244.7	235.8	227.1	223.2	219.5	216.0	216.8
65°	200.4	191.9	186.6	184.5	182.9	181.4	179.8
67.5°	159.7	154.5	151.2	146.6	143.4	142.9	141.3
70°	134.3	127.4	121.6	115.8	114.2	113.7	114.2
72.5°	107.7	103.3	101.7	98.9	98.6	97.1	98.2
75°	80.9	79.3	78.3	76.1	76.1	76.1	76.1
77.5°	59.7	58.7	58.1	57.7	57.1	56.4	56.2
80°	46.6	45.9	44.9	44.9	44.4	44.9	44.4
82.5°	35.1	35.0	33.9	33.9	33.4	33.1	33.4
85°	18.0	17.5	18.5	17.5	18.0	17.0	18.0
87.5°	10.5	10.7	10.4	10.5	10.2	11.1	10.4
90°	27.3	28.2	28.9	29.3	29.8	30.2	30.7
92.5°	41.5	42.2	42.4	42.1	41.9	41.6	41.3
95°	78.5	79.4	79.8	79.8	79.8	79.8	79.8
97.5°	121.6	122.7	123.1	123.0	123.0	122.9	122.8
100°	152.5	153.1	153.7	154.1	154.6	155.0	155.5
102.5°	188.4	189.1	189.5	189.3	189.2	189.1	189.0
105°	241.5	241.5	241.7	242.2	242.6	243.1	243.5
107.5°	300.3	301.0	301.2	301.0	300.7	300.4	300.1
110°	339.3	340.2	340.4	340.0	339.5	339.1	338.6



TEST NUMBER: P332439-840

CATALOG NUMBER: S123RDIW-S775D1030U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	378.3	379.4	379.9	379.8	379.7	379.7	379.6
115°	436.6	436.8	436.8	436.6	436.3	436.1	435.9
117.5°	495.8	495.8	495.4	494.8	494.2	493.5	492.9
120°	535.4	535.2	534.8	534.4	533.9	533.5	533.0
122.5°	575.2	574.7	574.0	573.4	572.8	572.2	571.5
125°	634.7	633.8	632.9	632.0	631.1	630.2	629.2
127.5°	693.4	692.1	690.8	689.8	688.8	687.7	686.7
130°	732.9	732.0	730.7	729.1	727.5	726.0	724.4
132.5°	770.8	769.7	768.6	767.3	766.1	764.9	763.7
135°	828.0	827.1	826.5	826.0	825.6	825.1	824.7
137.5°	883.7	882.8	881.9	881.0	880.2	879.3	878.5
140°	921.1	920.9	920.0	918.4	916.9	915.2	913.6
142.5°	955.5	955.3	954.5	953.3	952.1	950.9	949.7
145°	1006.0	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6
147.5°	1054.0	1054.0	1053.3	1052.0	1050.6	1049.2	1047.8
150°	1083.5	1083.5	1082.8	1081.5	1080.1	1078.7	1077.3
152.5°	1110.8	1111.2	1110.8	1109.5	1108.3	1107.1	1106.0
155°	1150.6	1151.5	1151.2	1149.6	1148.0	1146.5	1144.9
157.5°	1184.6	1185.5	1185.4	1184.1	1182.9	1181.5	1180.2
160°	1205.6	1206.7	1206.8	1205.9	1205.0	1204.1	1203.2
162.5°	1225.2	1226.4	1226.2	1224.8	1223.2	1221.8	1220.3
165°	1250.2	1251.6	1251.5	1249.9	1248.3	1246.7	1245.2
167.5°	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2
170°	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9
172.5°	1290.1	1291.5	1291.4	1289.8	1288.2	1286.6	1285.1
175°	1299.4	1300.7	1300.6	1299.0	1297.4	1295.9	1294.2
177.5°	1303.2	1304.3	1304.2	1302.9	1301.7	1300.4	1299.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4

(END OF REPORT)