

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: P332438-830

Luminaire Tested: **S123RDIW-S775D1030U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332438-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S775D1030U830-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6759.5 lumens
Efficiency: N/A
Efficacy: 128.5 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

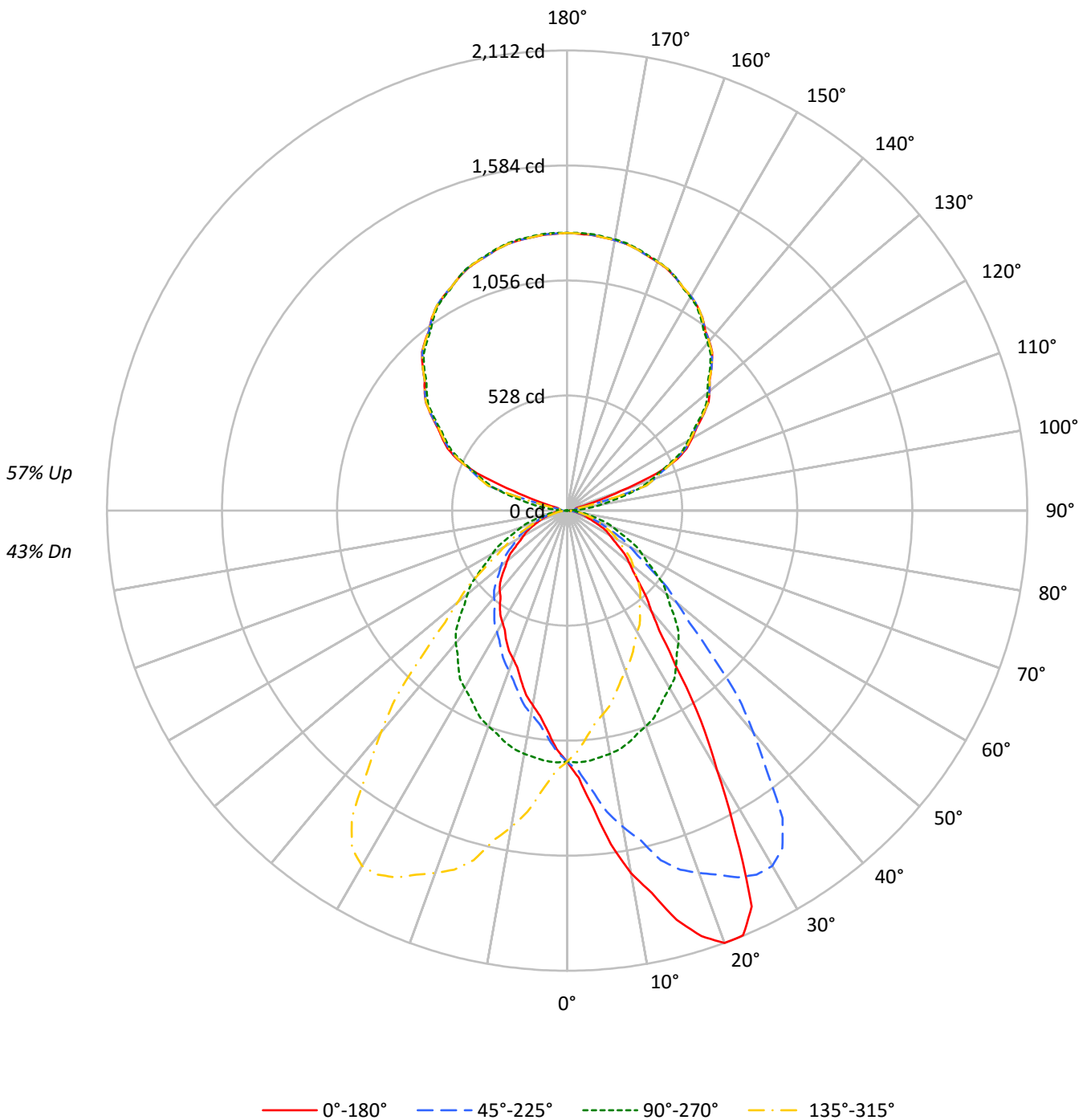
Input Watts (W): 52.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43																				
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	43	43	37																				
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	40	38	37	32																				
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27																				
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24																				
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21																				
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19																				
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																				
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	18	15																				
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																				
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	16	14	13																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12408	12408	12408	12408
5°	14791	12460	10974	12460
10°	18467	12389	9913	12389
15°	21677	12262	9040	12262
20°	24192	12073	8298	12073
25°	23807	11874	7842	11874
30°	17112	11691	7372	11691
35°	11426	11452	7068	11452
40°	8418	11164	6753	11164
45°	7060	10659	6445	10659
50°	6231	9999	6015	9999
55°	5465	9242	5427	9242
60°	4865	8521	4971	8521
65°	4274	7743	4625	7743
70°	3355	7050	4223	7050
75°	2957	6159	3855	6159
80°	2572	5232	3794	5232
85°	2075	4199	4026	4199



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.7
10°-20°	354.2	5.2
20°-30°	556.4	8.2
30°-40°	580.5	8.6
40°-50°	496.8	7.3
50°-60°	378.6	5.6
60°-70°	242.7	3.6
70°-80°	116.7	1.7
80°-90°	34.5	0.5
90°-100°	46.3	0.7
100°-110°	220.8	3.3
110°-120°	530.4	7.8
120°-130°	675.4	10.0
130°-140°	721.6	10.7
140°-150°	674.8	10.0
150°-160°	544.3	8.1
160°-170°	351.3	5.2
170°-180°	121.1	1.8
0°-30°	1023.9	15.1
0°-40°	1604.4	23.7
0°-60°	2479.8	36.7
0°-90°	2873.7	42.5
90°-120°	797.5	11.8
90°-150°	2869.2	42.4
90°-180°	3886.0	57.5
0°-180°	6759.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1369	1153	1016	1153	1369	141
15°	1945	1100	811	1100	1945	552
25°	2004	1000	660	1000	2004	862
35°	870	872	538	872	870	570
45°	464	700	423	700	464	365
55°	291	492	289	492	291	263
65°	168	304	182	304	168	165
75°	71	148	93	148	71	76
85°	17	34	33	34	17	20
90°	28	1	28	1	28	13
95°	36	58	36	58	36	30
105°	42	282	42	282	42	95
115°	557	529	557	529	557	514
125°	761	746	761	746	761	680
135°	938	929	938	929	938	723
145°	1082	1072	1082	1072	1082	675
155°	1179	1180	1179	1180	1179	543
165°	1242	1245	1242	1245	1242	351
175°	1270	1274	1270	1274	1270	121
180°	1274	1274	1274	1274	1274	



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1227.8	1229.4	1224.2	1223.4	1217.5	1215.9	1215.9	1207.6	1202.5	1195.8	1191.8
5°	1368.9	1376.8	1372.8	1364.0	1349.2	1345.7	1336.3	1321.5	1304.8	1284.0	1274.1
7.5°	1545.1	1555.9	1551.8	1538.0	1522.6	1510.0	1483.6	1459.0	1424.6	1394.3	1368.5
10°	1689.6	1678.3	1669.4	1656.0	1641.8	1618.5	1590.9	1552.9	1509.0	1474.5	1436.0
12.5°	1797.8	1795.9	1784.7	1770.9	1750.8	1728.7	1694.8	1648.5	1597.4	1547.6	1503.5
15°	1945.2	1948.2	1940.8	1926.5	1897.9	1858.9	1807.6	1788.3	1715.3	1661.0	1606.8
17.5°	2047.3	2046.7	2045.7	2025.9	1996.7	1969.0	1921.4	1870.8	1804.6	1728.2	1655.0
20°	2112.0	2107.1	2108.1	2085.8	2064.2	2032.1	1985.7	1912.2	1857.9	1769.6	1694.0
22.5°	2110.4	2109.5	2113.3	2105.6	2089.8	2065.3	2028.7	1966.7	1897.4	1808.3	1723.3
25°	2004.5	2000.5	2023.7	2030.1	2055.3	2059.7	2048.9	2014.9	1949.2	1857.4	1752.3
27.5°	1677.6	1675.5	1718.4	1772.4	1840.6	1893.8	1945.0	1969.8	1949.2	1883.5	1778.2
30°	1376.8	1423.1	1444.9	1522.9	1609.7	1713.4	1804.1	1890.5	1911.7	1883.1	1796.7
32.5°	1143.1	1183.6	1201.6	1268.6	1349.5	1470.9	1607.1	1729.4	1815.8	1837.7	1785.6
35°	869.5	870.0	911.4	941.0	1016.1	1140.9	1273.2	1437.0	1599.8	1723.2	1736.0
37.5°	693.8	696.3	721.3	750.8	807.1	873.2	989.6	1125.8	1313.9	1503.3	1614.3
40°	599.1	603.5	622.3	651.4	691.8	741.7	832.5	960.8	1117.7	1328.4	1500.6
42.5°	538.3	545.4	555.2	577.6	602.7	649.3	722.7	821.8	964.5	1163.8	1362.4
45°	463.8	467.8	475.2	485.6	508.3	540.8	590.2	656.8	775.2	935.7	1134.4
47.5°	409.2	407.1	414.9	423.3	438.4	460.6	493.7	548.1	632.5	761.2	929.9
50°	372.1	371.6	377.0	383.4	397.8	414.1	441.2	482.1	549.2	655.8	810.3
52.5°	337.3	339.2	343.1	351.1	361.4	374.6	398.9	428.4	486.1	578.1	706.8
55°	291.2	292.7	298.0	302.5	309.9	323.2	338.6	363.2	402.7	466.8	572.9
57.5°	252.0	251.4	256.6	257.7	266.1	276.9	288.8	307.9	336.6	384.2	455.6
60°	226.0	224.5	228.9	232.4	236.9	245.7	255.6	274.4	297.1	332.1	393.3
62.5°	202.4	201.6	204.9	208.3	212.0	220.1	228.4	242.8	260.7	290.3	338.8
65°	167.8	169.3	170.7	172.2	174.2	179.1	187.0	196.9	209.2	230.0	264.9
67.5°	131.9	133.4	133.8	136.9	141.1	144.2	149.0	157.8	166.4	183.9	203.8
70°	106.6	106.1	106.6	108.1	113.5	118.9	125.4	131.8	137.1	149.5	166.3
72.5°	91.6	90.7	92.0	92.3	94.9	96.4	100.5	106.5	113.5	121.9	133.9
75°	71.1	71.1	71.1	71.1	73.0	74.0	75.5	77.0	79.5	83.4	92.3
77.5°	52.5	52.6	53.3	53.8	54.2	54.8	55.7	57.1	58.1	60.1	64.0
80°	41.5	41.9	41.5	41.9	41.9	42.9	43.5	44.9	45.4	47.9	49.4
82.5°	31.2	30.9	31.2	31.7	31.7	32.7	32.8	33.8	33.9	35.3	36.8
85°	16.8	15.8	16.8	16.3	17.2	16.3	16.8	17.7	17.7	18.3	20.3
87.5°	9.6	10.4	9.4	9.8	9.7	10.0	9.8	9.6	10.3	9.7	9.5
90°	28.4	28.0	27.5	27.1	26.7	26.1	25.3	24.4	23.6	22.7	20.0
92.5°	31.4	31.2	30.9	30.6	30.4	29.6	28.3	27.0	25.5	24.2	22.1
95°	36.0	36.0	36.0	36.0	36.0	35.3	33.7	32.3	30.8	29.3	27.1
97.5°	39.0	38.8	38.5	38.4	38.2	37.2	35.5	33.8	32.1	30.4	45.6
100°	39.8	39.6	39.3	39.1	38.9	38.0	36.3	34.6	32.9	31.2	64.1
102.5°	40.5	40.2	39.8	39.4	39.0	41.4	46.7	51.8	57.1	62.3	98.1
105°	41.7	41.2	40.8	40.4	40.0	58.3	95.6	132.9	170.1	207.4	226.3
107.5°	130.8	158.9	187.0	215.0	243.1	270.8	298.1	325.4	352.7	380.0	377.0
110°	260.3	290.4	320.5	350.6	380.7	399.2	406.1	413.1	420.0	427.0	424.6



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	446.7	453.0	459.4	465.7	472.0	475.1	475.0	474.9	474.8	474.7	472.4
115°	556.7	555.8	555.0	554.1	553.3	551.9	549.7	547.6	545.5	543.4	541.5
117.5°	618.4	618.2	618.0	617.8	617.7	616.8	615.1	613.4	611.7	610.0	609.1
120°	660.8	660.8	660.8	660.8	660.8	660.0	658.3	656.6	654.9	653.2	652.6
122.5°	702.5	702.3	702.1	701.9	701.8	701.1	699.9	698.7	697.6	696.4	695.6
125°	761.1	760.7	760.3	759.9	759.5	759.0	758.7	758.2	757.8	757.3	756.5
127.5°	817.6	818.0	818.4	818.8	819.3	819.2	818.4	817.7	817.1	816.4	815.4
130°	853.9	854.3	854.8	855.2	855.6	855.4	854.5	853.8	852.9	852.1	851.2
132.5°	887.2	887.9	888.4	889.0	889.6	889.5	888.6	887.8	886.9	886.1	885.4
135°	938.2	938.8	939.4	940.1	940.7	940.7	940.1	939.4	938.8	938.2	937.4
137.5°	986.1	986.5	986.9	987.3	987.8	987.5	986.5	985.4	984.4	983.4	983.0
140°	1014.8	1015.3	1015.7	1016.2	1016.5	1016.3	1015.5	1014.6	1013.8	1013.0	1012.3
142.5°	1041.3	1042.0	1042.5	1043.1	1043.7	1043.7	1043.0	1042.4	1041.7	1040.9	1040.4
145°	1082.0	1082.0	1082.0	1082.0	1082.0	1081.9	1081.5	1081.0	1080.6	1080.2	1079.8
147.5°	1112.4	1113.3	1114.3	1115.3	1116.3	1116.5	1116.1	1115.7	1115.2	1114.8	1114.4
150°	1135.1	1135.8	1136.3	1137.0	1137.6	1137.7	1137.3	1136.9	1136.4	1136.0	1135.6
152.5°	1153.3	1154.2	1155.2	1156.1	1157.2	1157.3	1156.5	1155.7	1155.0	1154.2	1154.0
155°	1178.6	1179.9	1181.2	1182.4	1183.6	1183.8	1182.7	1181.7	1180.6	1179.6	1179.4
157.5°	1200.0	1201.6	1203.3	1204.9	1206.5	1206.7	1205.5	1204.3	1203.0	1201.7	1201.9
160°	1213.6	1215.1	1216.6	1218.0	1219.6	1219.7	1218.4	1217.1	1215.9	1214.7	1214.8
162.5°	1226.5	1227.9	1229.2	1230.5	1231.7	1231.7	1230.3	1228.8	1227.4	1226.0	1226.2
165°	1242.1	1243.5	1245.0	1246.5	1247.9	1247.8	1246.1	1244.4	1242.8	1241.1	1241.3
167.5°	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0	1258.3	1256.6	1254.9	1253.2	1253.2
170°	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8	1265.1	1263.4	1261.7	1260.1	1260.1
172.5°	1263.9	1265.6	1267.5	1269.4	1271.2	1271.3	1269.6	1268.0	1266.3	1264.6	1264.4
175°	1269.5	1271.2	1272.9	1274.6	1276.3	1276.4	1274.9	1273.4	1272.0	1270.5	1270.3
177.5°	1271.2	1272.9	1274.6	1276.3	1278.0	1278.1	1276.8	1275.4	1274.1	1272.7	1272.5
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1190.2	1189.0	1183.6	1177.2	1168.9	1163.4	1159.0	1156.7	1149.6	1140.9	1135.0
5°	1263.8	1249.0	1233.2	1213.9	1196.2	1177.9	1166.6	1153.2	1137.0	1118.7	1105.9
7.5°	1342.6	1313.5	1282.2	1250.0	1218.0	1189.5	1164.2	1142.6	1116.6	1090.4	1072.1
10°	1403.0	1360.5	1316.5	1271.7	1230.7	1192.2	1162.6	1133.5	1102.4	1072.3	1049.6
12.5°	1457.8	1401.9	1351.3	1296.2	1243.8	1197.8	1155.1	1120.9	1083.5	1051.4	1025.5
15°	1527.3	1470.1	1408.8	1324.9	1255.4	1197.1	1145.4	1100.4	1055.1	1015.6	990.4
17.5°	1592.2	1506.1	1423.9	1353.9	1263.5	1190.7	1127.5	1073.7	1024.0	982.1	951.1
20°	1619.1	1535.7	1446.3	1357.1	1268.2	1186.8	1113.2	1054.0	1002.2	954.9	926.2
22.5°	1635.2	1540.8	1446.7	1350.8	1256.4	1171.8	1099.1	1033.9	977.8	932.7	897.4
25°	1654.1	1541.6	1437.9	1343.2	1247.0	1155.2	1068.8	999.8	939.1	891.2	853.7
27.5°	1666.5	1534.2	1411.7	1306.4	1208.8	1117.4	1038.2	965.1	903.4	852.8	812.6
30°	1668.9	1528.2	1391.6	1277.6	1178.4	1094.5	1010.6	940.6	875.4	821.6	784.1
32.5°	1672.1	1513.6	1364.3	1243.2	1141.7	1058.6	982.6	915.7	848.9	796.0	757.7
35°	1659.1	1505.6	1323.0	1183.8	1082.1	1001.7	933.1	871.5	805.9	754.5	715.5
37.5°	1603.0	1473.5	1280.2	1116.9	1010.6	936.1	880.2	826.4	766.3	710.9	674.2
40°	1546.5	1441.9	1247.0	1076.3	965.3	888.7	838.4	794.5	736.2	684.5	645.0
42.5°	1462.4	1398.9	1215.4	1033.6	913.9	840.2	797.8	756.6	705.5	652.9	615.8
45°	1308.2	1316.5	1150.8	965.7	842.8	768.8	728.9	700.2	654.9	611.4	573.4
47.5°	1114.7	1193.2	1074.9	893.3	767.9	698.4	663.5	638.6	607.9	565.3	530.7
50°	988.4	1100.4	1014.1	844.8	721.0	651.9	617.4	597.1	570.4	536.9	503.8
52.5°	871.9	992.3	940.7	790.7	670.1	606.9	573.2	556.5	535.3	503.7	473.8
55°	711.1	833.0	821.1	709.1	593.6	536.9	511.2	492.5	478.2	454.5	430.8
57.5°	575.2	690.8	696.9	618.3	526.3	470.2	448.2	434.0	424.7	406.8	384.9
60°	489.6	595.6	616.3	557.1	478.2	428.9	407.1	395.8	388.3	374.1	357.3
62.5°	418.5	508.8	532.3	489.7	432.0	385.8	368.8	357.9	352.8	340.4	325.6
65°	320.3	395.3	417.9	394.3	364.2	327.2	313.4	304.0	299.5	292.7	281.7
67.5°	240.8	295.5	320.4	303.7	292.8	269.5	260.6	255.6	251.7	246.9	237.9
70°	193.4	233.9	259.6	255.1	246.3	233.9	227.5	224.0	220.1	216.1	208.2
72.5°	155.5	183.4	207.5	209.7	202.5	199.9	194.4	192.8	190.5	185.8	181.4
75°	103.1	122.3	139.1	145.5	148.5	151.0	148.5	148.1	147.5	143.6	141.1
77.5°	67.6	77.9	88.5	99.4	104.2	107.4	108.3	110.1	108.8	106.7	105.5
80°	51.8	54.3	61.6	71.1	78.4	81.4	83.4	84.4	83.9	83.4	81.4
82.5°	37.6	39.7	43.2	49.8	56.0	60.9	62.1	61.9	63.0	63.2	61.6
85°	20.3	20.7	21.7	22.7	26.1	31.6	33.1	34.0	35.1	35.1	32.0
87.5°	9.8	8.9	9.0	8.6	9.3	9.3	11.3	12.8	13.7	12.4	12.9
90°	17.2	14.5	11.8	9.3	7.3	5.2	3.0	0.9	3.0	5.2	7.3
92.5°	20.1	18.1	16.0	15.3	15.8	16.4	17.1	17.6	17.1	16.4	15.8
95°	24.7	22.4	20.1	23.3	31.9	40.5	49.1	57.8	49.1	40.5	31.9
97.5°	60.8	76.0	91.0	100.6	104.4	108.3	112.2	116.0	112.2	108.3	104.4
100°	96.9	129.7	162.5	176.8	172.6	168.4	164.2	159.9	164.2	168.4	172.6
102.5°	134.0	169.8	205.7	222.1	219.0	216.0	213.0	210.0	213.0	216.0	219.0
105°	245.2	264.1	283.0	291.3	289.1	286.7	284.5	282.1	284.5	286.7	289.1
107.5°	374.0	371.1	368.1	365.6	363.8	361.9	360.1	358.3	360.1	361.9	363.8
110°	422.4	420.0	417.7	415.7	414.1	412.4	410.7	409.0	410.7	412.4	414.1



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	470.0	467.7	465.4	463.5	462.0	460.4	458.9	457.4	458.9	460.4	462.0
115°	539.6	537.7	535.8	534.2	533.0	531.7	530.5	529.2	530.5	531.7	533.0
117.5°	608.1	607.2	606.1	604.9	603.3	601.8	600.2	598.7	600.2	601.8	603.3
120°	652.0	651.3	650.7	649.4	647.5	645.6	643.8	641.9	643.8	645.6	647.5
122.5°	694.7	694.0	693.1	692.0	690.4	688.9	687.3	685.8	687.3	688.9	690.4
125°	755.6	754.8	754.0	752.7	751.0	749.3	747.7	746.0	747.7	749.3	751.0
127.5°	814.5	813.4	812.4	811.1	809.4	807.7	806.0	804.3	806.0	807.7	809.4
130°	850.4	849.5	848.7	847.4	845.7	844.0	842.4	840.7	842.4	844.0	845.7
132.5°	884.8	884.1	883.4	882.2	880.5	878.8	877.2	875.5	877.2	878.8	880.5
135°	936.5	935.7	934.8	933.8	932.5	931.2	930.0	928.7	930.0	931.2	932.5
137.5°	982.5	982.0	981.6	980.5	978.9	977.3	975.7	974.1	975.7	977.3	978.9
140°	1011.7	1011.1	1010.4	1009.5	1008.2	1007.0	1005.7	1004.5	1005.7	1007.0	1008.2
142.5°	1039.7	1039.1	1038.5	1037.6	1036.2	1035.0	1033.7	1032.5	1033.7	1035.0	1036.2
145°	1079.3	1078.9	1078.5	1077.5	1076.1	1074.6	1073.1	1071.7	1073.1	1074.6	1076.1
147.5°	1114.0	1113.5	1113.1	1112.5	1111.4	1110.5	1109.6	1108.6	1109.6	1110.5	1111.4
150°	1135.2	1134.7	1134.3	1133.8	1133.2	1132.6	1131.9	1131.3	1131.9	1132.6	1133.2
152.5°	1153.7	1153.5	1153.2	1152.9	1152.6	1152.4	1152.1	1151.8	1152.1	1152.4	1152.6
155°	1179.1	1178.9	1178.7	1178.8	1179.3	1179.7	1180.1	1180.5	1180.1	1179.7	1179.3
157.5°	1202.1	1202.4	1202.6	1202.7	1202.8	1202.8	1202.9	1202.9	1202.9	1202.8	1202.8
160°	1215.0	1215.2	1215.4	1215.7	1215.9	1216.1	1216.3	1216.5	1216.3	1216.1	1215.9
162.5°	1226.4	1226.6	1226.8	1227.2	1227.8	1228.3	1228.8	1229.4	1228.8	1228.3	1227.8
165°	1241.5	1241.7	1242.0	1242.4	1243.0	1243.7	1244.3	1244.9	1244.3	1243.7	1243.0
167.5°	1253.2	1253.2	1253.2	1253.7	1254.5	1255.4	1256.2	1257.0	1256.2	1255.4	1254.5
170°	1260.1	1260.1	1260.1	1260.5	1261.3	1262.2	1263.0	1263.9	1263.0	1262.2	1261.3
172.5°	1264.2	1264.0	1263.9	1264.3	1265.4	1266.4	1267.3	1268.4	1267.3	1266.4	1265.4
175°	1270.1	1269.8	1269.6	1270.1	1271.1	1272.1	1273.2	1274.2	1273.2	1272.1	1271.1
177.5°	1272.4	1272.2	1272.1	1272.4	1273.3	1274.1	1274.9	1275.7	1274.9	1274.1	1273.3
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1133.0	1127.8	1124.4	1116.4	1111.3	1105.8	1100.2	1103.8	1103.4	1103.0	1103.0
5°	1095.0	1083.6	1073.3	1060.0	1051.6	1041.2	1033.3	1032.4	1034.3	1027.4	1023.4
7.5°	1057.3	1041.8	1027.1	1012.4	996.8	984.4	976.6	972.9	967.9	963.7	959.2
10°	1030.9	1012.6	998.2	980.1	963.3	948.5	939.1	932.6	929.2	925.8	919.4
12.5°	1003.6	985.7	967.5	946.9	930.9	913.7	906.7	899.5	892.9	889.0	880.2
15°	963.7	940.6	921.3	899.6	881.8	865.1	855.2	840.8	838.9	834.0	825.1
17.5°	923.8	898.6	872.0	856.0	835.9	818.5	803.4	798.6	784.5	779.2	771.5
20°	892.2	869.0	848.8	827.6	798.4	782.1	770.3	763.9	752.5	745.6	740.6
22.5°	865.0	841.4	817.9	793.2	769.2	750.9	742.3	732.3	726.1	716.4	711.1
25°	826.0	800.4	772.3	745.6	728.4	714.5	700.7	691.8	683.0	678.5	668.6
27.5°	780.9	754.0	727.7	707.6	686.4	672.7	660.2	652.2	641.6	634.1	628.7
30°	756.0	724.4	701.7	683.4	656.3	643.5	634.1	624.2	616.3	608.4	603.0
32.5°	727.2	698.3	676.8	654.2	633.4	619.4	607.3	598.6	591.8	584.4	578.9
35°	681.9	657.8	635.6	612.8	597.6	583.2	569.0	561.6	555.2	548.3	543.3
37.5°	641.1	618.5	597.4	575.9	556.9	545.3	533.8	528.1	519.4	514.8	509.7
40°	615.9	593.6	570.9	550.3	530.5	521.6	511.2	502.8	494.9	491.5	486.1
42.5°	588.2	566.0	546.9	524.5	508.4	496.3	486.7	477.6	471.6	466.7	463.5
45°	547.2	527.5	508.8	486.5	471.3	460.9	450.1	441.7	436.2	432.8	427.3
47.5°	507.5	487.8	468.7	449.3	434.5	422.7	411.9	406.0	398.8	394.5	391.0
50°	478.6	460.9	440.6	422.9	408.1	396.2	387.4	379.9	373.5	368.2	365.7
52.5°	452.2	433.3	415.8	399.3	383.6	370.2	362.1	354.3	349.5	343.3	340.4
55°	408.6	390.3	375.5	359.2	343.9	332.6	322.7	315.8	310.9	304.0	300.0
57.5°	367.6	351.3	333.6	319.4	303.7	294.1	285.9	276.5	270.5	265.1	261.3
60°	340.0	321.2	305.9	292.7	278.8	266.5	259.1	251.7	245.2	239.8	236.4
62.5°	311.2	294.8	280.3	265.8	253.2	242.4	233.8	227.6	222.0	218.5	215.1
65°	266.9	254.1	239.3	227.5	215.7	207.7	200.9	195.4	191.4	189.0	186.1
67.5°	226.3	213.9	201.0	189.3	181.4	175.4	170.9	166.2	164.2	161.1	159.1
70°	199.8	187.0	175.7	166.8	158.9	154.5	151.5	148.1	146.1	142.1	140.2
72.5°	171.1	161.7	153.5	146.3	140.0	135.9	132.1	127.9	124.8	120.4	118.5
75°	134.7	126.3	119.9	115.0	111.0	105.6	100.2	95.8	94.3	92.7	92.3
77.5°	99.8	94.4	89.8	85.7	80.8	76.8	75.6	74.6	74.3	73.5	73.5
80°	78.4	73.5	70.0	65.1	62.2	62.2	62.2	61.2	61.6	61.6	61.6
82.5°	58.3	53.8	51.9	50.1	49.6	50.0	50.0	50.1	49.9	50.6	50.2
85°	30.1	30.6	31.6	31.1	31.6	31.6	32.6	32.0	32.6	31.6	32.6
87.5°	12.9	14.6	15.6	16.5	17.4	17.5	18.1	18.3	18.9	19.0	19.1
90°	9.3	11.8	14.5	17.2	20.0	22.7	23.6	24.4	25.3	26.1	26.7
92.5°	15.3	16.0	18.1	20.1	22.1	24.2	25.5	27.0	28.3	29.6	30.4
95°	23.3	20.1	22.4	24.7	27.1	29.3	30.8	32.3	33.7	35.3	36.0
97.5°	100.6	91.0	76.0	60.8	45.6	30.4	32.1	33.8	35.5	37.2	38.2
100°	176.8	162.5	129.7	96.9	64.1	31.2	32.9	34.6	36.3	38.0	38.9
102.5°	222.1	205.7	169.8	134.0	98.1	62.3	57.1	51.8	46.7	41.4	39.0
105°	291.3	283.0	264.1	245.2	226.3	207.4	170.1	132.9	95.6	58.3	40.0
107.5°	365.6	368.1	371.1	374.0	377.0	380.0	352.7	325.4	298.1	270.8	243.1
110°	415.7	417.7	420.0	422.4	424.6	427.0	420.0	413.1	406.1	399.2	380.7



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	463.5	465.4	467.7	470.0	472.4	474.7	474.8	474.9	475.0	475.1	472.0
115°	534.2	535.8	537.7	539.6	541.5	543.4	545.5	547.6	549.7	551.9	553.3
117.5°	604.9	606.1	607.2	608.1	609.1	610.0	611.7	613.4	615.1	616.8	617.7
120°	649.4	650.7	651.3	652.0	652.6	653.2	654.9	656.6	658.3	660.0	660.8
122.5°	692.0	693.1	694.0	694.7	695.6	696.4	697.6	698.7	699.9	701.1	701.8
125°	752.7	754.0	754.8	755.6	756.5	757.3	757.8	758.2	758.7	759.0	759.5
127.5°	811.1	812.4	813.4	814.5	815.4	816.4	817.1	817.7	818.4	819.2	819.3
130°	847.4	848.7	849.5	850.4	851.2	852.1	852.9	853.8	854.5	855.4	855.6
132.5°	882.2	883.4	884.1	884.8	885.4	886.1	886.9	887.8	888.6	889.5	889.6
135°	933.8	934.8	935.7	936.5	937.4	938.2	938.8	939.4	940.1	940.7	940.7
137.5°	980.5	981.6	982.0	982.5	983.0	983.4	984.4	985.4	986.5	987.5	987.8
140°	1009.5	1010.4	1011.1	1011.7	1012.3	1013.0	1013.8	1014.6	1015.5	1016.3	1016.5
142.5°	1037.6	1038.5	1039.1	1039.7	1040.4	1040.9	1041.7	1042.4	1043.0	1043.7	1043.7
145°	1077.5	1078.5	1078.9	1079.3	1079.8	1080.2	1080.6	1081.0	1081.5	1081.9	1082.0
147.5°	1112.5	1113.1	1113.5	1114.0	1114.4	1114.8	1115.2	1115.7	1116.1	1116.5	1116.3
150°	1133.8	1134.3	1134.7	1135.2	1135.6	1136.0	1136.4	1136.9	1137.3	1137.7	1137.6
152.5°	1152.9	1153.2	1153.5	1153.7	1154.0	1154.2	1155.0	1155.7	1156.5	1157.3	1157.2
155°	1178.8	1178.7	1178.9	1179.1	1179.4	1179.6	1180.6	1181.7	1182.7	1183.8	1183.6
157.5°	1202.7	1202.6	1202.4	1202.1	1201.9	1201.7	1203.0	1204.3	1205.5	1206.7	1206.5
160°	1215.7	1215.4	1215.2	1215.0	1214.8	1214.7	1215.9	1217.1	1218.4	1219.7	1219.6
162.5°	1227.2	1226.8	1226.6	1226.4	1226.2	1226.0	1227.4	1228.8	1230.3	1231.7	1231.7
165°	1242.4	1242.0	1241.7	1241.5	1241.3	1241.1	1242.8	1244.4	1246.1	1247.8	1247.9
167.5°	1253.7	1253.2	1253.2	1253.2	1253.2	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0
170°	1260.5	1260.1	1260.1	1260.1	1260.1	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8
172.5°	1264.3	1263.9	1264.0	1264.2	1264.4	1264.6	1266.3	1268.0	1269.6	1271.3	1271.2
175°	1270.1	1269.6	1269.8	1270.1	1270.3	1270.5	1272.0	1273.4	1274.9	1276.4	1276.3
177.5°	1272.4	1272.1	1272.2	1272.4	1272.5	1272.7	1274.1	1275.4	1276.8	1278.1	1278.0
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1098.3	1097.9	1098.3	1096.6	1098.3	1097.9	1098.3	1103.0	1103.0	1103.4	1103.8
5°	1022.0	1021.4	1020.0	1015.6	1020.0	1021.4	1022.0	1023.4	1027.4	1034.3	1032.4
7.5°	955.4	954.7	950.4	950.5	950.4	954.7	955.4	959.2	963.7	967.9	972.9
10°	915.9	916.3	910.5	907.0	910.5	916.3	915.9	919.4	925.8	929.2	932.6
12.5°	877.6	875.3	870.5	866.8	870.5	875.3	877.6	880.2	889.0	892.9	899.5
15°	827.1	822.1	810.3	811.2	810.3	822.1	827.1	825.1	834.0	838.9	840.8
17.5°	767.5	763.9	763.6	756.8	763.6	763.9	767.5	771.5	779.2	784.5	798.6
20°	732.8	730.4	731.3	724.4	731.3	730.4	732.8	740.6	745.6	752.5	763.9
22.5°	705.6	703.1	699.0	696.8	699.0	703.1	705.6	711.1	716.4	726.1	732.3
25°	665.7	661.8	657.8	660.3	657.8	661.8	665.7	668.6	678.5	683.0	691.8
27.5°	625.8	622.8	618.9	618.4	618.9	622.8	625.8	628.7	634.1	641.6	652.2
30°	600.6	597.6	595.6	593.1	595.6	597.6	600.6	603.0	608.4	616.3	624.2
32.5°	574.9	574.3	570.7	570.2	570.7	574.3	574.9	578.9	584.4	591.8	598.6
35°	541.3	538.4	537.3	537.9	537.3	538.4	541.3	543.3	548.3	555.2	561.6
37.5°	509.4	505.5	503.7	502.0	503.7	505.5	509.4	509.7	514.8	519.4	528.1
40°	486.5	482.6	481.6	480.6	481.6	482.6	486.5	486.1	491.5	494.9	502.8
42.5°	460.9	459.3	458.7	456.9	458.7	459.3	460.9	463.5	466.7	471.6	477.6
45°	425.8	425.4	422.4	423.4	422.4	425.4	425.8	427.3	432.8	436.2	441.7
47.5°	389.0	386.8	384.7	386.1	384.7	386.8	389.0	391.0	394.5	398.8	406.0
50°	363.7	362.7	358.3	359.2	358.3	362.7	363.7	365.7	368.2	373.5	379.9
52.5°	338.5	334.7	333.0	332.4	333.0	334.7	338.5	340.4	343.3	349.5	354.3
55°	296.6	292.1	290.1	289.2	290.1	292.1	296.6	300.0	304.0	310.9	315.8
57.5°	255.5	254.3	252.8	253.8	252.8	254.3	255.5	261.3	265.1	270.5	276.5
60°	231.4	231.4	231.4	230.9	231.4	231.4	231.4	236.4	239.8	245.2	251.7
62.5°	212.9	211.7	211.3	212.0	211.3	211.7	212.9	215.1	218.5	222.0	227.6
65°	184.5	184.1	182.1	181.6	182.1	184.1	184.5	186.1	189.0	191.4	195.4
67.5°	157.8	156.0	155.4	154.8	155.4	156.0	157.8	159.1	161.1	164.2	166.2
70°	137.7	136.7	133.7	134.2	133.7	136.7	137.7	140.2	142.1	146.1	148.1
72.5°	115.9	115.0	114.4	113.7	114.4	115.0	115.9	118.5	120.4	124.8	127.9
75°	91.8	91.3	90.8	92.7	90.8	91.3	91.8	92.3	92.7	94.3	95.8
77.5°	73.5	73.5	73.8	73.0	73.8	73.5	73.5	73.5	73.5	74.3	74.6
80°	61.6	61.6	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.2
82.5°	49.5	49.9	50.1	49.4	50.1	49.9	49.5	50.2	50.6	49.9	50.1
85°	32.6	32.0	33.1	32.6	33.1	32.0	32.6	32.6	31.6	32.6	32.0
87.5°	20.1	19.3	19.4	19.9	19.4	19.3	20.1	19.1	19.0	18.9	18.3
90°	27.1	27.5	28.0	28.4	28.0	27.5	27.1	26.7	26.1	25.3	24.4
92.5°	30.6	30.9	31.2	31.4	31.2	30.9	30.6	30.4	29.6	28.3	27.0
95°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.3	33.7	32.3
97.5°	38.4	38.5	38.8	39.0	38.8	38.5	38.4	38.2	37.2	35.5	33.8
100°	39.1	39.3	39.6	39.8	39.6	39.3	39.1	38.9	38.0	36.3	34.6
102.5°	39.4	39.8	40.2	40.5	40.2	39.8	39.4	39.0	41.4	46.7	51.8
105°	40.4	40.8	41.2	41.7	41.2	40.8	40.4	40.0	58.3	95.6	132.9
107.5°	215.0	187.0	158.9	130.8	158.9	187.0	215.0	243.1	270.8	298.1	325.4
110°	350.6	320.5	290.4	260.3	290.4	320.5	350.6	380.7	399.2	406.1	413.1



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	459.4	453.0	446.7	453.0	459.4	465.7	472.0	475.1	475.0	474.9
115°	554.1	555.0	555.8	556.7	555.8	555.0	554.1	553.3	551.9	549.7	547.6
117.5°	617.8	618.0	618.2	618.4	618.2	618.0	617.8	617.7	616.8	615.1	613.4
120°	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.8	660.0	658.3	656.6
122.5°	701.9	702.1	702.3	702.5	702.3	702.1	701.9	701.8	701.1	699.9	698.7
125°	759.9	760.3	760.7	761.1	760.7	760.3	759.9	759.5	759.0	758.7	758.2
127.5°	818.8	818.4	818.0	817.6	818.0	818.4	818.8	819.3	819.2	818.4	817.7
130°	855.2	854.8	854.3	853.9	854.3	854.8	855.2	855.6	855.4	854.5	853.8
132.5°	889.0	888.4	887.9	887.2	887.9	888.4	889.0	889.6	889.5	888.6	887.8
135°	940.1	939.4	938.8	938.2	938.8	939.4	940.1	940.7	940.7	940.1	939.4
137.5°	987.3	986.9	986.5	986.1	986.5	986.9	987.3	987.8	987.5	986.5	985.4
140°	1016.2	1015.7	1015.3	1014.8	1015.3	1015.7	1016.2	1016.5	1016.3	1015.5	1014.6
142.5°	1043.1	1042.5	1042.0	1041.3	1042.0	1042.5	1043.1	1043.7	1043.7	1043.0	1042.4
145°	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1082.0	1081.9	1081.5	1081.0
147.5°	1115.3	1114.3	1113.3	1112.4	1113.3	1114.3	1115.3	1116.3	1116.5	1116.1	1115.7
150°	1137.0	1136.3	1135.8	1135.1	1135.8	1136.3	1137.0	1137.6	1137.7	1137.3	1136.9
152.5°	1156.1	1155.2	1154.2	1153.3	1154.2	1155.2	1156.1	1157.2	1157.3	1156.5	1155.7
155°	1182.4	1181.2	1179.9	1178.6	1179.9	1181.2	1182.4	1183.6	1183.8	1182.7	1181.7
157.5°	1204.9	1203.3	1201.6	1200.0	1201.6	1203.3	1204.9	1206.5	1206.7	1205.5	1204.3
160°	1218.0	1216.6	1215.1	1213.6	1215.1	1216.6	1218.0	1219.6	1219.7	1218.4	1217.1
162.5°	1230.5	1229.2	1227.9	1226.5	1227.9	1229.2	1230.5	1231.7	1231.7	1230.3	1228.8
165°	1246.5	1245.0	1243.5	1242.1	1243.5	1245.0	1246.5	1247.9	1247.8	1246.1	1244.4
167.5°	1258.3	1256.6	1254.9	1253.2	1254.9	1256.6	1258.3	1260.0	1260.0	1258.3	1256.6
170°	1265.1	1263.4	1261.7	1260.1	1261.7	1263.4	1265.1	1266.8	1266.8	1265.1	1263.4
172.5°	1269.4	1267.5	1265.6	1263.9	1265.6	1267.5	1269.4	1271.2	1271.3	1269.6	1268.0
175°	1274.6	1272.9	1271.2	1269.5	1271.2	1272.9	1274.6	1276.3	1276.4	1274.9	1273.4
177.5°	1276.3	1274.6	1272.9	1271.2	1272.9	1274.6	1276.3	1278.0	1278.1	1276.8	1275.4
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1100.2	1105.8	1111.3	1116.4	1124.4	1127.8	1133.0	1135.0	1140.9	1149.6	1156.7
5°	1033.3	1041.2	1051.6	1060.0	1073.3	1083.6	1095.0	1105.9	1118.7	1137.0	1153.2
7.5°	976.6	984.4	996.8	1012.4	1027.1	1041.8	1057.3	1072.1	1090.4	1116.6	1142.6
10°	939.1	948.5	963.3	980.1	998.2	1012.6	1030.9	1049.6	1072.3	1102.4	1133.5
12.5°	906.7	913.7	930.9	946.9	967.5	985.7	1003.6	1025.5	1051.4	1083.5	1120.9
15°	855.2	865.1	881.8	899.6	921.3	940.6	963.7	990.4	1015.6	1055.1	1100.4
17.5°	803.4	818.5	835.9	856.0	872.0	898.6	923.8	951.1	982.1	1024.0	1073.7
20°	770.3	782.1	798.4	827.6	848.8	869.0	892.2	926.2	954.9	1002.2	1054.0
22.5°	742.3	750.9	769.2	793.2	817.9	841.4	865.0	897.4	932.7	977.8	1033.9
25°	700.7	714.5	728.4	745.6	772.3	800.4	826.0	853.7	891.2	939.1	999.8
27.5°	660.2	672.7	686.4	707.6	727.7	754.0	780.9	812.6	852.8	903.4	965.1
30°	634.1	643.5	656.3	683.4	701.7	724.4	756.0	784.1	821.6	875.4	940.6
32.5°	607.3	619.4	633.4	654.2	676.8	698.3	727.2	757.7	796.0	848.9	915.7
35°	569.0	583.2	597.6	612.8	635.6	657.8	681.9	715.5	754.5	805.9	871.5
37.5°	533.8	545.3	556.9	575.9	597.4	618.5	641.1	674.2	710.9	766.3	826.4
40°	511.2	521.6	530.5	550.3	570.9	593.6	615.9	645.0	684.5	736.2	794.5
42.5°	486.7	496.3	508.4	524.5	546.9	566.0	588.2	615.8	652.9	705.5	756.6
45°	450.1	460.9	471.3	486.5	508.8	527.5	547.2	573.4	611.4	654.9	700.2
47.5°	411.9	422.7	434.5	449.3	468.7	487.8	507.5	530.7	565.3	607.9	638.6
50°	387.4	396.2	408.1	422.9	440.6	460.9	478.6	503.8	536.9	570.4	597.1
52.5°	362.1	370.2	383.6	399.3	415.8	433.3	452.2	473.8	503.7	535.3	556.5
55°	322.7	332.6	343.9	359.2	375.5	390.3	408.6	430.8	454.5	478.2	492.5
57.5°	285.9	294.1	303.7	319.4	333.6	351.3	367.6	384.9	406.8	424.7	434.0
60°	259.1	266.5	278.8	292.7	305.9	321.2	340.0	357.3	374.1	388.3	395.8
62.5°	233.8	242.4	253.2	265.8	280.3	294.8	311.2	325.6	340.4	352.8	357.9
65°	200.9	207.7	215.7	227.5	239.3	254.1	266.9	281.7	292.7	299.5	304.0
67.5°	170.9	175.4	181.4	189.3	201.0	213.9	226.3	237.9	246.9	251.7	255.6
70°	151.5	154.5	158.9	166.8	175.7	187.0	199.8	208.2	216.1	220.1	224.0
72.5°	132.1	135.9	140.0	146.3	153.5	161.7	171.1	181.4	185.8	190.5	192.8
75°	100.2	105.6	111.0	115.0	119.9	126.3	134.7	141.1	143.6	147.5	148.1
77.5°	75.6	76.8	80.8	85.7	89.8	94.4	99.8	105.5	106.7	108.8	110.1
80°	62.2	62.2	62.2	65.1	70.0	73.5	78.4	81.4	83.4	83.9	84.4
82.5°	50.0	50.0	49.6	50.1	51.9	53.8	58.3	61.6	63.2	63.0	61.9
85°	32.6	31.6	31.6	31.1	31.6	30.6	30.1	32.0	35.1	35.1	34.0
87.5°	18.1	17.5	17.4	16.5	15.6	14.6	12.9	12.9	12.4	13.7	12.8
90°	23.6	22.7	20.0	17.2	14.5	11.8	9.3	7.3	5.2	3.0	0.9
92.5°	25.5	24.2	22.1	20.1	18.1	16.0	15.3	15.8	16.4	17.1	17.6
95°	30.8	29.3	27.1	24.7	22.4	20.1	23.3	31.9	40.5	49.1	57.8
97.5°	32.1	30.4	45.6	60.8	76.0	91.0	100.6	104.4	108.3	112.2	116.0
100°	32.9	31.2	64.1	96.9	129.7	162.5	176.8	172.6	168.4	164.2	159.9
102.5°	57.1	62.3	98.1	134.0	169.8	205.7	222.1	219.0	216.0	213.0	210.0
105°	170.1	207.4	226.3	245.2	264.1	283.0	291.3	289.1	286.7	284.5	282.1
107.5°	352.7	380.0	377.0	374.0	371.1	368.1	365.6	363.8	361.9	360.1	358.3
110°	420.0	427.0	424.6	422.4	420.0	417.7	415.7	414.1	412.4	410.7	409.0



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	474.8	474.7	472.4	470.0	467.7	465.4	463.5	462.0	460.4	458.9	457.4
115°	545.5	543.4	541.5	539.6	537.7	535.8	534.2	533.0	531.7	530.5	529.2
117.5°	611.7	610.0	609.1	608.1	607.2	606.1	604.9	603.3	601.8	600.2	598.7
120°	654.9	653.2	652.6	652.0	651.3	650.7	649.4	647.5	645.6	643.8	641.9
122.5°	697.6	696.4	695.6	694.7	694.0	693.1	692.0	690.4	688.9	687.3	685.8
125°	757.8	757.3	756.5	755.6	754.8	754.0	752.7	751.0	749.3	747.7	746.0
127.5°	817.1	816.4	815.4	814.5	813.4	812.4	811.1	809.4	807.7	806.0	804.3
130°	852.9	852.1	851.2	850.4	849.5	848.7	847.4	845.7	844.0	842.4	840.7
132.5°	886.9	886.1	885.4	884.8	884.1	883.4	882.2	880.5	878.8	877.2	875.5
135°	938.8	938.2	937.4	936.5	935.7	934.8	933.8	932.5	931.2	930.0	928.7
137.5°	984.4	983.4	983.0	982.5	982.0	981.6	980.5	978.9	977.3	975.7	974.1
140°	1013.8	1013.0	1012.3	1011.7	1011.1	1010.4	1009.5	1008.2	1007.0	1005.7	1004.5
142.5°	1041.7	1040.9	1040.4	1039.7	1039.1	1038.5	1037.6	1036.2	1035.0	1033.7	1032.5
145°	1080.6	1080.2	1079.8	1079.3	1078.9	1078.5	1077.5	1076.1	1074.6	1073.1	1071.7
147.5°	1115.2	1114.8	1114.4	1114.0	1113.5	1113.1	1112.5	1111.4	1110.5	1109.6	1108.6
150°	1136.4	1136.0	1135.6	1135.2	1134.7	1134.3	1133.8	1133.2	1132.6	1131.9	1131.3
152.5°	1155.0	1154.2	1154.0	1153.7	1153.5	1153.2	1152.9	1152.6	1152.4	1152.1	1151.8
155°	1180.6	1179.6	1179.4	1179.1	1178.9	1178.7	1178.8	1179.3	1179.7	1180.1	1180.5
157.5°	1203.0	1201.7	1201.9	1202.1	1202.4	1202.6	1202.7	1202.8	1202.8	1202.9	1202.9
160°	1215.9	1214.7	1214.8	1215.0	1215.2	1215.4	1215.7	1215.9	1216.1	1216.3	1216.5
162.5°	1227.4	1226.0	1226.2	1226.4	1226.6	1226.8	1227.2	1227.8	1228.3	1228.8	1229.4
165°	1242.8	1241.1	1241.3	1241.5	1241.7	1242.0	1242.4	1243.0	1243.7	1244.3	1244.9
167.5°	1254.9	1253.2	1253.2	1253.2	1253.2	1253.2	1253.7	1254.5	1255.4	1256.2	1257.0
170°	1261.7	1260.1	1260.1	1260.1	1260.1	1260.1	1260.5	1261.3	1262.2	1263.0	1263.9
172.5°	1266.3	1264.6	1264.4	1264.2	1264.0	1263.9	1264.3	1265.4	1266.4	1267.3	1268.4
175°	1272.0	1270.5	1270.3	1270.1	1269.8	1269.6	1270.1	1271.1	1272.1	1273.2	1274.2
177.5°	1274.1	1272.7	1272.5	1272.4	1272.2	1272.1	1272.4	1273.3	1274.1	1274.9	1275.7
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1159.0	1163.4	1168.9	1177.2	1183.6	1189.0	1190.2	1191.8	1195.8	1202.5	1207.6
5°	1166.6	1177.9	1196.2	1213.9	1233.2	1249.0	1263.8	1274.1	1284.0	1304.8	1321.5
7.5°	1164.2	1189.5	1218.0	1250.0	1282.2	1313.5	1342.6	1368.5	1394.3	1424.6	1459.0
10°	1162.6	1192.2	1230.7	1271.7	1316.5	1360.5	1403.0	1436.0	1474.5	1509.0	1552.9
12.5°	1155.1	1197.8	1243.8	1296.2	1351.3	1401.9	1457.8	1503.5	1547.6	1597.4	1648.5
15°	1145.4	1197.1	1255.4	1324.9	1408.8	1470.1	1527.3	1606.8	1661.0	1715.3	1788.3
17.5°	1127.5	1190.7	1263.5	1353.9	1423.9	1506.1	1592.2	1655.0	1728.2	1804.6	1870.8
20°	1113.2	1186.8	1268.2	1357.1	1446.3	1535.7	1619.1	1694.0	1769.6	1857.9	1912.2
22.5°	1099.1	1171.8	1256.4	1350.8	1446.7	1540.8	1635.2	1723.3	1808.3	1897.4	1966.7
25°	1068.8	1155.2	1247.0	1343.2	1437.9	1541.6	1654.1	1752.3	1857.4	1949.2	2014.9
27.5°	1038.2	1117.4	1208.8	1306.4	1411.7	1534.2	1666.5	1778.2	1883.5	1949.2	1969.8
30°	1010.6	1094.5	1178.4	1277.6	1391.6	1528.2	1668.9	1796.7	1883.1	1911.7	1890.5
32.5°	982.6	1058.6	1141.7	1243.2	1364.3	1513.6	1672.1	1785.6	1837.7	1815.8	1729.4
35°	933.1	1001.7	1082.1	1183.8	1323.0	1505.6	1659.1	1736.0	1723.2	1599.8	1437.0
37.5°	880.2	936.1	1010.6	1116.9	1280.2	1473.5	1603.0	1614.3	1503.3	1313.9	1125.8
40°	838.4	888.7	965.3	1076.3	1247.0	1441.9	1546.5	1500.6	1328.4	1117.7	960.8
42.5°	797.8	840.2	913.9	1033.6	1215.4	1398.9	1462.4	1362.4	1163.8	964.5	821.8
45°	728.9	768.8	842.8	965.7	1150.8	1316.5	1308.2	1134.4	935.7	775.2	656.8
47.5°	663.5	698.4	767.9	893.3	1074.9	1193.2	1114.7	929.9	761.2	632.5	548.1
50°	617.4	651.9	721.0	844.8	1014.1	1100.4	988.4	810.3	655.8	549.2	482.1
52.5°	573.2	606.9	670.1	790.7	940.7	992.3	871.9	706.8	578.1	486.1	428.4
55°	511.2	536.9	593.6	709.1	821.1	833.0	711.1	572.9	466.8	402.7	363.2
57.5°	448.2	470.2	526.3	618.3	696.9	690.8	575.2	455.6	384.2	336.6	307.9
60°	407.1	428.9	478.2	557.1	616.3	595.6	489.6	393.3	332.1	297.1	274.4
62.5°	368.8	385.8	432.0	489.7	532.3	508.8	418.5	338.8	290.3	260.7	242.8
65°	313.4	327.2	364.2	394.3	417.9	395.3	320.3	264.9	230.0	209.2	196.9
67.5°	260.6	269.5	292.8	303.7	320.4	295.5	240.8	203.8	183.9	166.4	157.8
70°	227.5	233.9	246.3	255.1	259.6	233.9	193.4	166.3	149.5	137.1	131.8
72.5°	194.4	199.9	202.5	209.7	207.5	183.4	155.5	133.9	121.9	113.5	106.5
75°	148.5	151.0	148.5	145.5	139.1	122.3	103.1	92.3	83.4	79.5	77.0
77.5°	108.3	107.4	104.2	99.4	88.5	77.9	67.6	64.0	60.1	58.1	57.1
80°	83.4	81.4	78.4	71.1	61.6	54.3	51.8	49.4	47.9	45.4	44.9
82.5°	62.1	60.9	56.0	49.8	43.2	39.7	37.6	36.8	35.3	33.9	33.8
85°	33.1	31.6	26.1	22.7	21.7	20.7	20.3	20.3	18.3	17.7	17.7
87.5°	11.3	9.3	9.3	8.6	9.0	8.9	9.8	9.5	9.7	10.3	9.6
90°	3.0	5.2	7.3	9.3	11.8	14.5	17.2	20.0	22.7	23.6	24.4
92.5°	17.1	16.4	15.8	15.3	16.0	18.1	20.1	22.1	24.2	25.5	27.0
95°	49.1	40.5	31.9	23.3	20.1	22.4	24.7	27.1	29.3	30.8	32.3
97.5°	112.2	108.3	104.4	100.6	91.0	76.0	60.8	45.6	30.4	32.1	33.8
100°	164.2	168.4	172.6	176.8	162.5	129.7	96.9	64.1	31.2	32.9	34.6
102.5°	213.0	216.0	219.0	222.1	205.7	169.8	134.0	98.1	62.3	57.1	51.8
105°	284.5	286.7	289.1	291.3	283.0	264.1	245.2	226.3	207.4	170.1	132.9
107.5°	360.1	361.9	363.8	365.6	368.1	371.1	374.0	377.0	380.0	352.7	325.4
110°	410.7	412.4	414.1	415.7	417.7	420.0	422.4	424.6	427.0	420.0	413.1



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	458.9	460.4	462.0	463.5	465.4	467.7	470.0	472.4	474.7	474.8	474.9
115°	530.5	531.7	533.0	534.2	535.8	537.7	539.6	541.5	543.4	545.5	547.6
117.5°	600.2	601.8	603.3	604.9	606.1	607.2	608.1	609.1	610.0	611.7	613.4
120°	643.8	645.6	647.5	649.4	650.7	651.3	652.0	652.6	653.2	654.9	656.6
122.5°	687.3	688.9	690.4	692.0	693.1	694.0	694.7	695.6	696.4	697.6	698.7
125°	747.7	749.3	751.0	752.7	754.0	754.8	755.6	756.5	757.3	757.8	758.2
127.5°	806.0	807.7	809.4	811.1	812.4	813.4	814.5	815.4	816.4	817.1	817.7
130°	842.4	844.0	845.7	847.4	848.7	849.5	850.4	851.2	852.1	852.9	853.8
132.5°	877.2	878.8	880.5	882.2	883.4	884.1	884.8	885.4	886.1	886.9	887.8
135°	930.0	931.2	932.5	933.8	934.8	935.7	936.5	937.4	938.2	938.8	939.4
137.5°	975.7	977.3	978.9	980.5	981.6	982.0	982.5	983.0	983.4	984.4	985.4
140°	1005.7	1007.0	1008.2	1009.5	1010.4	1011.1	1011.7	1012.3	1013.0	1013.8	1014.6
142.5°	1033.7	1035.0	1036.2	1037.6	1038.5	1039.1	1039.7	1040.4	1040.9	1041.7	1042.4
145°	1073.1	1074.6	1076.1	1077.5	1078.5	1078.9	1079.3	1079.8	1080.2	1080.6	1081.0
147.5°	1109.6	1110.5	1111.4	1112.5	1113.1	1113.5	1114.0	1114.4	1114.8	1115.2	1115.7
150°	1131.9	1132.6	1133.2	1133.8	1134.3	1134.7	1135.2	1135.6	1136.0	1136.4	1136.9
152.5°	1152.1	1152.4	1152.6	1152.9	1153.2	1153.5	1153.7	1154.0	1154.2	1155.0	1155.7
155°	1180.1	1179.7	1179.3	1178.8	1178.7	1178.9	1179.1	1179.4	1179.6	1180.6	1181.7
157.5°	1202.9	1202.8	1202.8	1202.7	1202.6	1202.4	1202.1	1201.9	1201.7	1203.0	1204.3
160°	1216.3	1216.1	1215.9	1215.7	1215.4	1215.2	1215.0	1214.8	1214.7	1215.9	1217.1
162.5°	1228.8	1228.3	1227.8	1227.2	1226.8	1226.6	1226.4	1226.2	1226.0	1227.4	1228.8
165°	1244.3	1243.7	1243.0	1242.4	1242.0	1241.7	1241.5	1241.3	1241.1	1242.8	1244.4
167.5°	1256.2	1255.4	1254.5	1253.7	1253.2	1253.2	1253.2	1253.2	1253.2	1254.9	1256.6
170°	1263.0	1262.2	1261.3	1260.5	1260.1	1260.1	1260.1	1260.1	1260.1	1261.7	1263.4
172.5°	1267.3	1266.4	1265.4	1264.3	1263.9	1264.0	1264.2	1264.4	1264.6	1266.3	1268.0
175°	1273.2	1272.1	1271.1	1270.1	1269.6	1269.8	1270.1	1270.3	1270.5	1272.0	1273.4
177.5°	1274.9	1274.1	1273.3	1272.4	1272.1	1272.2	1272.4	1272.5	1272.7	1274.1	1275.4
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1215.9	1215.9	1217.5	1223.4	1224.2	1229.4	1227.8
5°	1336.3	1345.7	1349.2	1364.0	1372.8	1376.8	1368.9
7.5°	1483.6	1510.0	1522.6	1538.0	1551.8	1555.9	1545.1
10°	1590.9	1618.5	1641.8	1656.0	1669.4	1678.3	1689.6
12.5°	1694.8	1728.7	1750.8	1770.9	1784.7	1795.9	1797.8
15°	1807.6	1858.9	1897.9	1926.5	1940.8	1948.2	1945.2
17.5°	1921.4	1969.0	1996.7	2025.9	2045.7	2046.7	2047.3
20°	1985.7	2032.1	2064.2	2085.8	2108.1	2107.1	2112.0
22.5°	2028.7	2065.3	2089.8	2105.6	2113.3	2109.5	2110.4
25°	2048.9	2059.7	2055.3	2030.1	2023.7	2000.5	2004.5
27.5°	1945.0	1893.8	1840.6	1772.4	1718.4	1675.5	1677.6
30°	1804.1	1713.4	1609.7	1522.9	1444.9	1423.1	1376.8
32.5°	1607.1	1470.9	1349.5	1268.6	1201.6	1183.6	1143.1
35°	1273.2	1140.9	1016.1	941.0	911.4	870.0	869.5
37.5°	989.6	873.2	807.1	750.8	721.3	696.3	693.8
40°	832.5	741.7	691.8	651.4	622.3	603.5	599.1
42.5°	722.7	649.3	602.7	577.6	555.2	545.4	538.3
45°	590.2	540.8	508.3	485.6	475.2	467.8	463.8
47.5°	493.7	460.6	438.4	423.3	414.9	407.1	409.2
50°	441.2	414.1	397.8	383.4	377.0	371.6	372.1
52.5°	398.9	374.6	361.4	351.1	343.1	339.2	337.3
55°	338.6	323.2	309.9	302.5	298.0	292.7	291.2
57.5°	288.8	276.9	266.1	257.7	256.6	251.4	252.0
60°	255.6	245.7	236.9	232.4	228.9	224.5	226.0
62.5°	228.4	220.1	212.0	208.3	204.9	201.6	202.4
65°	187.0	179.1	174.2	172.2	170.7	169.3	167.8
67.5°	149.0	144.2	141.1	136.9	133.8	133.4	131.9
70°	125.4	118.9	113.5	108.1	106.6	106.1	106.6
72.5°	100.5	96.4	94.9	92.3	92.0	90.7	91.6
75°	75.5	74.0	73.0	71.1	71.1	71.1	71.1
77.5°	55.7	54.8	54.2	53.8	53.3	52.6	52.5
80°	43.5	42.9	41.9	41.9	41.5	41.9	41.5
82.5°	32.8	32.7	31.7	31.7	31.2	30.9	31.2
85°	16.8	16.3	17.2	16.3	16.8	15.8	16.8
87.5°	9.8	10.0	9.7	9.8	9.4	10.4	9.6
90°	25.3	26.1	26.7	27.1	27.5	28.0	28.4
92.5°	28.3	29.6	30.4	30.6	30.9	31.2	31.4
95°	33.7	35.3	36.0	36.0	36.0	36.0	36.0
97.5°	35.5	37.2	38.2	38.4	38.5	38.8	39.0
100°	36.3	38.0	38.9	39.1	39.3	39.6	39.8
102.5°	46.7	41.4	39.0	39.4	39.8	40.2	40.5
105°	95.6	58.3	40.0	40.4	40.8	41.2	41.7
107.5°	298.1	270.8	243.1	215.0	187.0	158.9	130.8
110°	406.1	399.2	380.7	350.6	320.5	290.4	260.3



TEST NUMBER: P332438-830

CATALOG NUMBER: S123RDIW-S775D1030U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	475.0	475.1	472.0	465.7	459.4	453.0	446.7
115°	549.7	551.9	553.3	554.1	555.0	555.8	556.7
117.5°	615.1	616.8	617.7	617.8	618.0	618.2	618.4
120°	658.3	660.0	660.8	660.8	660.8	660.8	660.8
122.5°	699.9	701.1	701.8	701.9	702.1	702.3	702.5
125°	758.7	759.0	759.5	759.9	760.3	760.7	761.1
127.5°	818.4	819.2	819.3	818.8	818.4	818.0	817.6
130°	854.5	855.4	855.6	855.2	854.8	854.3	853.9
132.5°	888.6	889.5	889.6	889.0	888.4	887.9	887.2
135°	940.1	940.7	940.7	940.1	939.4	938.8	938.2
137.5°	986.5	987.5	987.8	987.3	986.9	986.5	986.1
140°	1015.5	1016.3	1016.5	1016.2	1015.7	1015.3	1014.8
142.5°	1043.0	1043.7	1043.7	1043.1	1042.5	1042.0	1041.3
145°	1081.5	1081.9	1082.0	1082.0	1082.0	1082.0	1082.0
147.5°	1116.1	1116.5	1116.3	1115.3	1114.3	1113.3	1112.4
150°	1137.3	1137.7	1137.6	1137.0	1136.3	1135.8	1135.1
152.5°	1156.5	1157.3	1157.2	1156.1	1155.2	1154.2	1153.3
155°	1182.7	1183.8	1183.6	1182.4	1181.2	1179.9	1178.6
157.5°	1205.5	1206.7	1206.5	1204.9	1203.3	1201.6	1200.0
160°	1218.4	1219.7	1219.6	1218.0	1216.6	1215.1	1213.6
162.5°	1230.3	1231.7	1231.7	1230.5	1229.2	1227.9	1226.5
165°	1246.1	1247.8	1247.9	1246.5	1245.0	1243.5	1242.1
167.5°	1258.3	1260.0	1260.0	1258.3	1256.6	1254.9	1253.2
170°	1265.1	1266.8	1266.8	1265.1	1263.4	1261.7	1260.1
172.5°	1269.6	1271.3	1271.2	1269.4	1267.5	1265.6	1263.9
175°	1274.9	1276.4	1276.3	1274.6	1272.9	1271.2	1269.5
177.5°	1276.8	1278.1	1278.0	1276.3	1274.6	1272.9	1271.2
180°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2

(END OF REPORT)