

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: P332324

Luminaire Tested: **S123RDIP-S775D1195U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332324
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: S123RDIP-S775D1195U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7818.3 lumens
Efficiency: N/A
Efficacy: 137.4 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

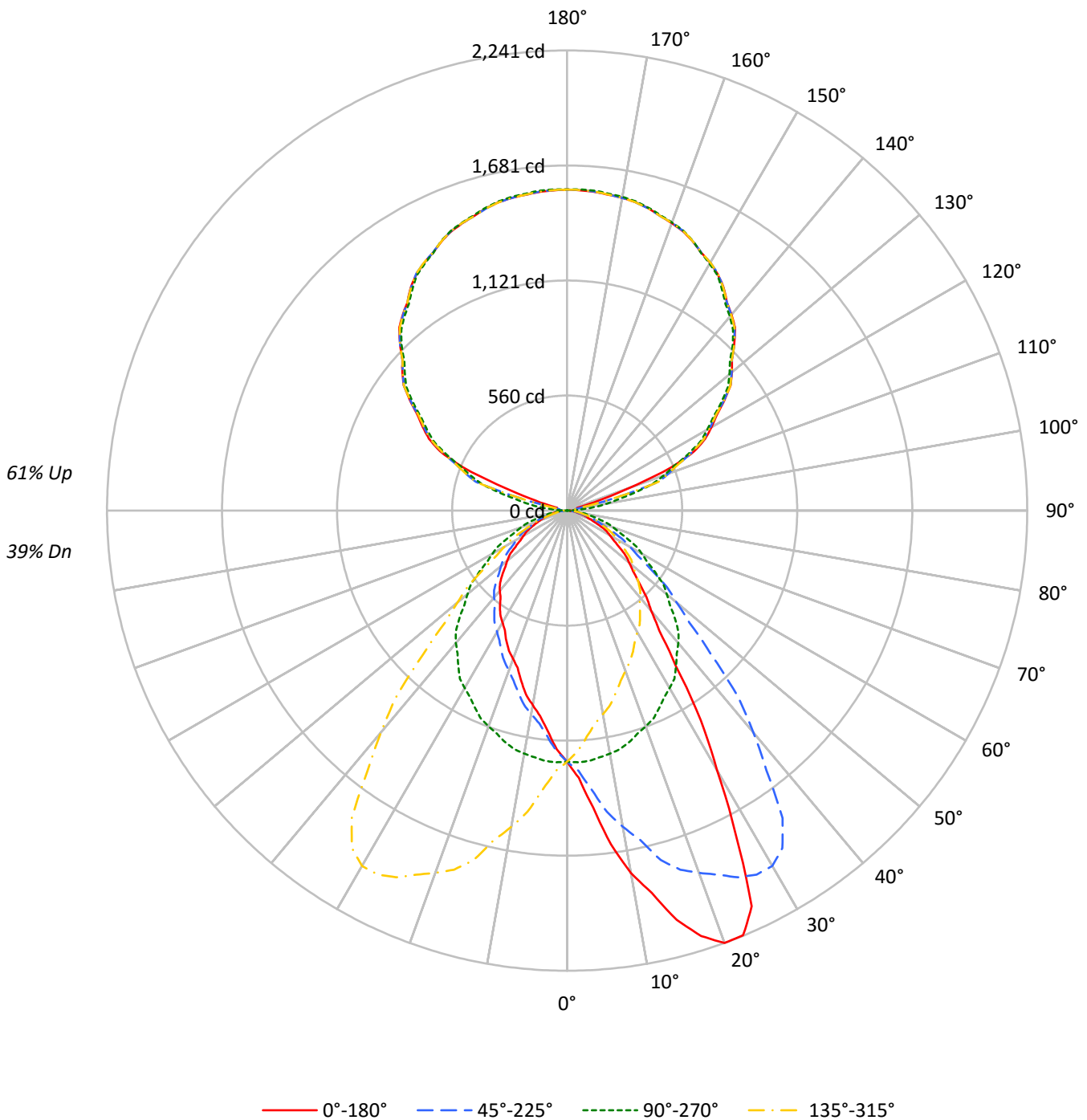
Input Watts (W): 56.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	96	92	88	85	87	84	80	78	68	66	64	54	53	52	41	40	40	34				
2	88	81	75	70	79	74	69	64	60	57	54	48	46	44	37	35	34	29				
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25				
4	73	63	56	50	67	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	68	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17				
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18	15				
8	53	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14				
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13				
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13164	13164	13164	13164
5°	15692	13220	11642	13220
10°	19593	13144	10518	13144
15°	22998	13010	9591	13010
20°	25668	12810	8804	12810
25°	25258	12598	8320	12598
30°	18155	12403	7822	12403
35°	12122	12150	7499	12150
40°	8931	11844	7165	11844
45°	7491	11309	6838	11309
50°	6611	10608	6382	10608
55°	5797	9805	5758	9805
60°	5162	9040	5274	9040
65°	4534	8214	4908	8214
70°	3559	7481	4482	7481
75°	3136	6534	4092	6534
80°	2727	5548	4023	5548
85°	2198	4458	4273	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.5
10°-20°	375.7	4.8
20°-30°	590.3	7.6
30°-40°	615.9	7.9
40°-50°	527.1	6.7
50°-60°	401.7	5.1
60°-70°	257.5	3.3
70°-80°	123.9	1.6
80°-90°	37.2	0.5
90°-100°	56.9	0.7
100°-110°	271.0	3.5
110°-120°	650.9	8.3
120°-130°	828.8	10.6
130°-140°	885.6	11.3
140°-150°	828.1	10.6
150°-160°	668.0	8.5
160°-170°	431.1	5.5
170°-180°	148.6	1.9
0°-30°	1086.3	13.9
0°-40°	1702.2	21.8
0°-60°	2631.0	33.7
0°-90°	3049.5	39.0
90°-120°	978.7	12.5
90°-150°	3521.2	45.0
90°-180°	4769.0	61.0
0°-180°	7818.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1452	1224	1078	1224	1452	150
15°	2064	1168	861	1168	2064	585
25°	2127	1061	700	1061	2127	914
35°	922	925	571	925	922	605
45°	492	743	449	743	492	387
55°	309	522	307	522	309	279
65°	178	322	193	322	178	175
75°	75	157	98	157	75	81
85°	18	36	35	36	18	21
90°	35	1	35	1	35	16
95°	44	71	44	71	44	37
105°	51	346	51	346	51	117
115°	683	650	683	650	683	631
125°	934	916	934	916	934	834
135°	1151	1140	1151	1140	1151	888
145°	1328	1315	1328	1315	1328	829
155°	1446	1449	1446	1449	1446	667
165°	1524	1528	1524	1528	1524	430
175°	1558	1564	1558	1564	1558	148
180°	1564	1564	1564	1564	1564	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1302.6	1304.3	1298.8	1298.0	1291.7	1290.0	1290.0	1281.2	1275.8	1268.7	1264.5
5°	1452.3	1460.7	1456.5	1447.1	1431.4	1427.7	1417.8	1402.1	1384.3	1362.3	1351.8
7.5°	1639.3	1650.8	1646.4	1631.8	1615.4	1602.1	1574.0	1547.9	1511.4	1479.3	1451.9
10°	1792.6	1780.6	1771.2	1757.0	1741.9	1717.2	1687.9	1647.6	1601.0	1564.4	1523.5
12.5°	1907.4	1905.4	1893.5	1878.9	1857.5	1834.1	1798.1	1749.0	1694.8	1641.9	1595.2
15°	2063.8	2067.0	2059.1	2043.9	2013.6	1972.2	1917.8	1897.3	1819.9	1762.3	1704.7
17.5°	2172.1	2171.5	2170.4	2149.4	2118.4	2089.0	2038.5	1984.8	1914.6	1833.5	1755.9
20°	2240.8	2235.6	2236.6	2213.0	2190.0	2156.0	2106.8	2028.8	1971.2	1877.5	1797.3
22.5°	2239.1	2238.1	2242.1	2234.0	2217.2	2191.2	2152.4	2086.6	2013.1	1918.5	1828.3
25°	2126.7	2122.5	2147.1	2153.9	2180.6	2185.3	2173.8	2137.7	2068.0	1970.6	1859.1
27.5°	1779.9	1777.6	1823.2	1880.4	1952.8	2009.2	2063.6	2089.9	2068.0	1998.3	1886.6
30°	1460.7	1509.9	1533.0	1615.7	1707.8	1817.8	1914.1	2005.7	2028.2	1997.9	1906.2
32.5°	1212.8	1255.7	1274.9	1345.9	1431.8	1560.6	1705.1	1834.8	1926.5	1949.7	1894.5
35°	922.5	923.0	967.0	998.4	1078.0	1210.4	1350.8	1524.6	1697.3	1828.2	1841.8
37.5°	736.1	738.7	765.3	796.6	856.3	926.4	1049.9	1194.4	1394.0	1594.9	1712.7
40°	635.6	640.3	660.2	691.1	734.0	786.9	883.2	1019.4	1185.8	1409.4	1592.1
42.5°	571.1	578.7	589.0	612.8	639.4	688.9	766.8	871.9	1023.3	1234.7	1445.5
45°	492.1	496.3	504.2	515.2	539.3	573.8	626.2	696.8	822.5	992.7	1203.6
47.5°	434.1	431.9	440.2	449.1	465.1	488.7	523.8	581.5	671.1	807.6	986.6
50°	394.8	394.2	400.0	406.8	422.0	439.3	468.1	511.5	582.7	695.8	859.7
52.5°	357.9	359.9	364.0	372.5	383.4	397.4	423.2	454.5	515.7	613.3	749.9
55°	308.9	310.5	316.2	320.9	328.8	342.9	359.2	385.3	427.2	495.3	607.8
57.5°	267.4	266.7	272.2	273.4	282.3	293.8	306.4	326.7	357.1	407.6	483.4
60°	239.8	238.2	242.9	246.6	251.3	260.7	271.2	291.1	315.2	352.3	417.3
62.5°	214.7	213.9	217.4	221.0	224.9	233.5	242.3	257.6	276.6	308.0	359.5
65°	178.0	179.6	181.1	182.7	184.8	190.0	198.4	208.9	222.0	244.0	281.1
67.5°	139.9	141.5	142.0	145.2	149.7	153.0	158.1	167.4	176.5	195.1	216.2
70°	113.1	112.6	113.1	114.7	120.4	126.2	133.0	139.8	145.5	158.6	176.4
72.5°	97.2	96.2	97.6	97.9	100.7	102.3	106.6	113.0	120.4	129.3	142.1
75°	75.4	75.4	75.4	75.4	77.5	78.5	80.1	81.7	84.3	88.5	97.9
77.5°	55.7	55.8	56.5	57.1	57.5	58.1	59.1	60.6	61.6	63.8	67.9
80°	44.0	44.5	44.0	44.5	44.5	45.5	46.1	47.6	48.2	50.8	52.4
82.5°	33.1	32.8	33.1	33.6	33.6	34.7	34.8	35.9	36.0	37.4	39.0
85°	17.8	16.8	17.8	17.3	18.3	17.3	17.8	18.8	18.8	19.4	21.5
87.5°	11.2	11.9	11.0	11.3	11.2	11.4	11.2	11.0	11.6	11.0	10.8
90°	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9	28.9	27.9	24.5
92.5°	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0	31.4	29.7	27.2
95°	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6	37.8	36.0	33.2
97.5°	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5	39.5	37.4	35.0
100°	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5	40.4	38.3	36.6
102.5°	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6	70.0	76.4	120.4
105°	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0	208.7	254.4	277.7
107.5°	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3	432.8	466.4	462.7
110°	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9	515.5	524.0	521.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8	582.7	582.5	579.7
115°	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0	669.5	666.9	664.6
117.5°	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8	750.7	748.7	747.5
120°	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8	803.7	801.6	800.9
122.5°	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5	856.1	854.6	853.6
125°	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5	930.0	929.4	928.4
127.5°	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6	1002.8	1001.9	1000.7
130°	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7	1046.7	1045.6	1044.6
132.5°	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5	1088.5	1087.5	1086.6
135°	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4	1150.3
137.5°	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4	1208.1	1206.9	1206.3
140°	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2	1244.2	1243.1	1242.4
142.5°	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2	1278.4	1277.5	1276.8
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7	1326.1	1325.6	1325.1
147.5°	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2	1368.7	1368.1	1367.6
150°	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2	1394.7	1394.2	1393.7
152.5°	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3	1417.4	1416.5	1416.2
155°	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2	1448.9	1447.6	1447.4
157.5°	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9	1476.4	1474.8	1475.1
160°	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7	1492.2	1490.6	1490.9
162.5°	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1	1506.3	1504.5	1504.8
165°	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3	1525.2	1523.1	1523.4
167.5°	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0	1538.0
170°	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4	1546.4
172.5°	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1	1554.0	1551.9	1551.7
175°	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8	1561.0	1559.1	1558.9
177.5°	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2	1563.6	1561.9	1561.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1262.8	1261.5	1255.7	1249.0	1240.2	1234.3	1229.7	1227.2	1219.7	1210.4	1204.2
5°	1340.8	1325.1	1308.4	1287.9	1269.1	1249.7	1237.7	1223.5	1206.3	1186.9	1173.3
7.5°	1424.4	1393.6	1360.4	1326.2	1292.3	1262.0	1235.2	1212.2	1184.7	1156.9	1137.5
10°	1488.5	1443.4	1396.8	1349.2	1305.7	1264.9	1233.5	1202.6	1169.6	1137.7	1113.6
12.5°	1546.7	1487.4	1433.7	1375.2	1319.6	1270.8	1225.5	1189.2	1149.5	1115.5	1088.0
15°	1620.4	1559.7	1494.7	1405.7	1331.9	1270.1	1215.2	1167.5	1119.4	1077.5	1050.8
17.5°	1689.3	1597.9	1510.7	1436.4	1340.5	1263.3	1196.2	1139.2	1086.4	1042.0	1009.1
20°	1717.8	1629.3	1534.5	1439.8	1345.5	1259.1	1181.1	1118.3	1063.3	1013.1	982.7
22.5°	1734.9	1634.7	1534.9	1433.1	1333.0	1243.2	1166.1	1096.9	1037.4	989.6	952.1
25°	1754.9	1635.6	1525.6	1425.1	1323.0	1225.6	1134.0	1060.7	996.3	945.5	905.7
27.5°	1768.1	1627.7	1497.8	1386.0	1282.5	1185.5	1101.5	1023.9	958.5	904.8	862.1
30°	1770.6	1621.4	1476.4	1355.5	1250.2	1161.2	1072.2	997.9	928.8	871.7	831.9
32.5°	1774.0	1605.9	1447.5	1319.0	1211.3	1123.1	1042.5	971.5	900.7	844.5	803.9
35°	1760.2	1597.4	1403.6	1256.0	1148.1	1062.8	990.0	924.6	855.0	800.5	759.1
37.5°	1700.7	1563.3	1358.2	1185.0	1072.2	993.2	933.9	876.8	813.0	754.2	715.3
40°	1640.8	1529.8	1323.0	1141.9	1024.1	942.9	889.5	842.9	781.1	726.2	684.3
42.5°	1551.6	1484.2	1289.5	1096.6	969.6	891.4	846.4	802.7	748.5	692.7	653.3
45°	1387.9	1396.8	1220.9	1024.6	894.2	815.7	773.3	742.9	694.8	648.7	608.4
47.5°	1182.7	1265.9	1140.4	947.8	814.7	741.0	704.0	677.5	645.0	599.8	563.0
50°	1048.7	1167.5	1075.9	896.3	764.9	691.6	655.0	633.5	605.2	569.6	534.5
52.5°	925.1	1052.8	998.0	838.9	710.9	643.9	608.1	590.4	567.9	534.4	502.7
55°	754.4	883.8	871.2	752.3	629.8	569.6	542.4	522.5	507.3	482.2	457.1
57.5°	610.3	732.9	739.4	656.0	558.4	498.9	475.5	460.5	450.6	431.6	408.4
60°	519.4	631.9	653.9	591.1	507.3	455.0	431.9	419.9	412.0	396.9	379.1
62.5°	444.0	539.8	564.7	519.5	458.3	409.3	391.3	379.7	374.3	361.2	345.5
65°	339.8	419.4	443.4	418.3	386.4	347.1	332.5	322.5	317.8	310.5	298.9
67.5°	255.5	313.5	339.9	322.2	310.7	285.9	276.5	271.2	267.0	262.0	252.4
70°	205.2	248.2	275.4	270.7	261.3	248.2	241.4	237.7	233.5	229.3	220.9
72.5°	165.0	194.6	220.1	222.5	214.8	212.1	206.2	204.6	202.1	197.1	192.5
75°	109.4	129.8	147.6	154.4	157.6	160.2	157.6	157.1	156.5	152.4	149.7
77.5°	71.7	82.7	93.9	105.5	110.5	114.0	114.9	116.8	115.4	113.2	111.9
80°	55.0	57.6	65.4	75.4	83.2	86.4	88.5	89.5	89.0	88.5	86.4
82.5°	39.9	42.1	45.8	52.8	59.4	64.6	65.9	65.7	66.8	67.1	65.4
85°	21.5	22.0	23.0	24.1	27.7	33.5	35.1	36.1	37.2	37.2	34.0
87.5°	10.9	9.8	10.0	9.4	10.2	10.1	12.1	13.6	14.6	13.4	13.9
90°	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2	3.7	6.3	8.9
92.5°	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6	20.9	20.2	19.4
95°	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9	60.3	49.7	39.1
97.5°	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4	137.7	132.9	128.2
100°	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3	201.5	206.7	211.8
102.5°	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7	261.4	265.1	268.8
105°	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2	349.1	351.9	354.7
107.5°	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6	441.9	444.2	446.4
110°	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9	504.0	506.0	508.1



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4	563.2	565.1	567.0
115°	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5	651.0	652.5	654.1
117.5°	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7	736.6	738.5	740.5
120°	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7	790.0	792.4	794.7
122.5°	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6	843.5	845.4	847.3
125°	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5	917.6	919.6	921.7
127.5°	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1	989.1	991.2	993.3
130°	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7	1033.8	1035.8	1037.9
132.5°	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4	1076.5	1078.6	1080.6
135°	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7	1141.3	1142.8	1144.4
137.5°	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5	1197.5	1199.4	1201.4
140°	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7	1234.2	1235.8	1237.3
142.5°	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1	1268.6	1270.2	1271.7
145°	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2	1317.0	1318.8	1320.6
147.5°	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5	1361.7	1362.9	1364.0
150°	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4	1389.1	1389.9	1390.7
152.5°	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5	1413.8	1414.2	1414.5
155°	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8	1448.3	1447.7	1447.2
157.5°	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2	1476.1	1476.1	1476.0
160°	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9	1492.7	1492.4	1492.2
162.5°	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7	1508.1	1507.4	1506.7
165°	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8	1527.0	1526.2	1525.5
167.5°	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7	1541.6	1540.6	1539.6
170°	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0	1550.0	1549.0	1547.9
172.5°	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6	1555.4	1554.1	1552.9
175°	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8	1562.5	1561.2	1559.9
177.5°	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7	1564.6	1563.6	1562.6
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1202.1	1196.6	1192.9	1184.5	1179.0	1173.2	1167.3	1171.1	1170.7	1170.2	1170.2
5°	1161.8	1149.7	1138.7	1124.6	1115.7	1104.7	1096.3	1095.3	1097.4	1090.0	1085.8
7.5°	1121.8	1105.3	1089.7	1074.1	1057.6	1044.4	1036.1	1032.2	1026.9	1022.4	1017.7
10°	1093.7	1074.3	1059.1	1039.8	1022.0	1006.3	996.3	989.5	985.8	982.2	975.4
12.5°	1064.8	1045.8	1026.5	1004.6	987.6	969.4	962.0	954.3	947.3	943.2	933.9
15°	1022.5	997.9	977.5	954.4	935.6	917.8	907.3	892.1	890.0	884.8	875.4
17.5°	980.1	953.4	925.2	908.2	886.9	868.4	852.4	847.3	832.3	826.7	818.5
20°	946.6	922.0	900.5	878.0	847.1	829.8	817.3	810.5	798.4	791.1	785.8
22.5°	917.7	892.7	867.8	841.6	816.1	796.7	787.5	776.9	770.4	760.1	754.4
25°	876.4	849.2	819.4	791.1	772.8	758.1	743.4	734.0	724.6	719.9	709.4
27.5°	828.5	800.0	772.1	750.7	728.2	713.7	700.4	692.0	680.7	672.8	667.0
30°	802.1	768.6	744.5	725.1	696.3	682.7	672.8	662.3	653.9	645.5	639.8
32.5°	771.5	740.9	718.1	694.1	672.0	657.2	644.3	635.1	627.9	620.0	614.2
35°	723.5	697.9	674.3	650.2	634.0	618.8	603.7	595.8	589.0	581.7	576.4
37.5°	680.2	656.2	633.8	611.0	590.9	578.5	566.3	560.3	551.1	546.2	540.8
40°	653.4	629.8	605.7	583.8	562.8	553.4	542.4	533.5	525.1	521.5	515.7
42.5°	624.1	600.5	580.2	556.5	539.4	526.6	516.4	506.7	500.4	495.1	491.8
45°	580.6	559.7	539.8	516.2	500.0	489.0	477.5	468.6	462.8	459.2	453.4
47.5°	538.4	517.5	497.3	476.7	461.0	448.5	437.0	430.8	423.1	418.6	414.8
50°	507.8	489.0	467.5	448.7	433.0	420.4	411.0	403.1	396.3	390.6	388.0
52.5°	479.8	459.7	441.1	423.6	407.0	392.8	384.2	375.9	370.8	364.2	361.1
55°	433.5	414.1	398.4	381.1	364.9	352.9	342.4	335.1	329.8	322.5	318.3
57.5°	390.0	372.7	353.9	338.9	322.2	312.0	303.3	293.4	287.0	281.3	277.2
60°	360.7	340.8	324.6	310.5	295.8	282.7	274.9	267.0	260.2	254.4	250.8
62.5°	330.2	312.8	297.4	282.0	268.6	257.2	248.1	241.5	235.5	231.8	228.2
65°	283.2	269.6	253.9	241.4	228.8	220.4	213.1	207.3	203.1	200.5	197.4
67.5°	240.1	226.9	213.2	200.8	192.5	186.1	181.3	176.3	174.2	170.9	168.8
70°	212.0	198.4	186.4	177.0	168.6	163.9	160.7	157.1	155.0	150.8	148.7
72.5°	181.5	171.6	162.9	155.2	148.5	144.2	140.2	135.7	132.4	127.7	125.7
75°	142.9	134.0	127.2	122.0	117.8	112.0	106.3	101.6	100.0	98.4	97.9
77.5°	105.9	100.2	95.3	90.9	85.7	81.5	80.2	79.2	78.8	78.0	78.0
80°	83.2	78.0	74.3	69.1	66.0	66.0	66.0	64.9	65.4	65.4	65.4
82.5°	61.9	57.1	55.1	53.2	52.6	53.0	53.0	53.2	52.9	53.7	53.3
85°	31.9	32.5	33.5	33.0	33.5	33.5	34.6	34.0	34.6	33.5	34.6
87.5°	14.0	15.9	17.0	18.1	19.1	19.4	20.0	20.2	20.9	21.1	21.2
90°	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9	31.0	32.0	32.8
92.5°	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0	34.7	36.4	37.3
95°	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6	41.4	43.2	44.1
97.5°	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5	43.6	45.7	46.8
100°	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5	44.5	46.6	47.8
102.5°	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6	57.2	50.8	47.9
105°	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0	117.3	71.6	49.1
107.5°	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3	365.8	332.3	298.3
110°	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9	498.4	489.9	467.2



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8	583.0	583.2	579.3
115°	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0	674.6	677.2	679.0
117.5°	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8	754.9	756.9	758.1
120°	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8	807.8	809.9	810.9
122.5°	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5	859.0	860.4	861.2
125°	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5	931.0	931.5	932.0
127.5°	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6	1004.4	1005.2	1005.4
130°	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7	1048.7	1049.8	1050.0
132.5°	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5	1090.6	1091.6	1091.7
135°	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5
137.5°	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4	1210.6	1211.8	1212.2
140°	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2	1246.2	1247.3	1247.5
142.5°	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2	1280.0	1280.8	1280.9
145°	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7	1327.2	1327.7	1327.9
147.5°	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2	1369.7	1370.2	1369.9
150°	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2	1395.7	1396.2	1396.1
152.5°	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3	1419.3	1420.2	1420.1
155°	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2	1451.5	1452.8	1452.6
157.5°	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9	1479.4	1481.0	1480.8
160°	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7	1495.2	1496.8	1496.7
162.5°	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1	1509.8	1511.6	1511.6
165°	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3	1529.3	1531.4	1531.5
167.5°	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3
170°	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6
172.5°	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1	1558.1	1560.2	1560.1
175°	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8	1564.6	1566.4	1566.2
177.5°	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2	1566.9	1568.5	1568.3
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1165.2	1164.8	1165.2	1163.5	1165.2	1164.8	1165.2	1170.2	1170.2	1170.7	1171.1
5°	1084.3	1083.7	1082.2	1077.5	1082.2	1083.7	1084.3	1085.8	1090.0	1097.4	1095.3
7.5°	1013.6	1012.9	1008.3	1008.4	1008.3	1012.9	1013.6	1017.7	1022.4	1026.9	1032.2
10°	971.7	972.2	966.0	962.3	966.0	972.2	971.7	975.4	982.2	985.8	989.5
12.5°	931.1	928.7	923.6	919.6	923.6	928.7	931.1	933.9	943.2	947.3	954.3
15°	877.5	872.2	859.7	860.7	859.7	872.2	877.5	875.4	884.8	890.0	892.1
17.5°	814.3	810.5	810.2	802.9	810.2	810.5	814.3	818.5	826.7	832.3	847.3
20°	777.5	774.9	775.9	768.6	775.9	774.9	777.5	785.8	791.1	798.4	810.5
22.5°	748.6	746.0	741.6	739.3	741.6	746.0	748.6	754.4	760.1	770.4	776.9
25°	706.3	702.1	697.9	700.5	697.9	702.1	706.3	709.4	719.9	724.6	734.0
27.5°	664.0	660.8	656.6	656.1	656.6	660.8	664.0	667.0	672.8	680.7	692.0
30°	637.2	634.0	631.9	629.3	631.9	634.0	637.2	639.8	645.5	653.9	662.3
32.5°	609.9	609.3	605.5	605.0	605.5	609.3	609.9	614.2	620.0	627.9	635.1
35°	574.3	571.2	570.1	570.7	570.1	571.2	574.3	576.4	581.7	589.0	595.8
37.5°	540.5	536.3	534.4	532.6	534.4	536.3	540.5	540.8	546.2	551.1	560.3
40°	516.2	512.0	511.0	509.9	511.0	512.0	516.2	515.7	521.5	525.1	533.5
42.5°	489.0	487.3	486.7	484.8	486.7	487.3	489.0	491.8	495.1	500.4	506.7
45°	451.8	451.3	448.2	449.2	448.2	451.3	451.8	453.4	459.2	462.8	468.6
47.5°	412.7	410.4	408.2	409.6	408.2	410.4	412.7	414.8	418.6	423.1	430.8
50°	385.9	384.8	380.1	381.1	380.1	384.8	385.9	388.0	390.6	396.3	403.1
52.5°	359.1	355.1	353.3	352.7	353.3	355.1	359.1	361.1	364.2	370.8	375.9
55°	314.7	309.9	307.8	306.8	307.8	309.9	314.7	318.3	322.5	329.8	335.1
57.5°	271.1	269.8	268.2	269.3	268.2	269.8	271.1	277.2	281.3	287.0	293.4
60°	245.5	245.5	245.5	245.0	245.5	245.5	245.5	250.8	254.4	260.2	267.0
62.5°	225.9	224.6	224.2	224.9	224.2	224.6	225.9	228.2	231.8	235.5	241.5
65°	195.8	195.3	193.2	192.7	193.2	195.3	195.8	197.4	200.5	203.1	207.3
67.5°	167.4	165.5	164.9	164.2	164.9	165.5	167.4	168.8	170.9	174.2	176.3
70°	146.1	145.0	141.9	142.4	141.9	145.0	146.1	148.7	150.8	155.0	157.1
72.5°	123.0	122.0	121.4	120.6	121.4	122.0	123.0	125.7	127.7	132.4	135.7
75°	97.4	96.9	96.3	98.4	96.3	96.9	97.4	97.9	98.4	100.0	101.6
77.5°	78.0	78.0	78.3	77.5	78.3	78.0	78.0	78.0	78.0	78.8	79.2
80°	65.4	65.4	64.9	64.9	64.9	65.4	65.4	65.4	65.4	65.4	64.9
82.5°	52.5	52.9	53.2	52.4	53.2	52.9	52.5	53.3	53.7	52.9	53.2
85°	34.6	34.0	35.1	34.6	35.1	34.0	34.6	34.6	33.5	34.6	34.0
87.5°	22.2	21.4	21.5	22.0	21.5	21.4	22.2	21.2	21.1	20.9	20.2
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	32.0	31.0	29.9
92.5°	37.6	38.0	38.3	38.6	38.3	38.0	37.6	37.3	36.4	34.7	33.0
95°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	43.2	41.4	39.6
97.5°	47.1	47.4	47.6	47.9	47.6	47.4	47.1	46.8	45.7	43.6	41.5
100°	48.0	48.3	48.5	48.8	48.5	48.3	48.0	47.8	46.6	44.5	42.5
102.5°	48.3	48.8	49.3	49.7	49.3	48.8	48.3	47.9	50.8	57.2	63.6
105°	49.6	50.1	50.6	51.1	50.6	50.1	49.6	49.1	71.6	117.3	163.0
107.5°	263.9	229.4	195.0	160.6	195.0	229.4	263.9	298.3	332.3	365.8	399.3
110°	430.3	393.3	356.4	319.5	356.4	393.3	430.3	467.2	489.9	498.4	506.9



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	571.5	563.7	555.9	548.1	555.9	563.7	571.5	579.3	583.2	583.0	582.8
115°	680.0	681.1	682.1	683.1	682.1	681.1	680.0	679.0	677.2	674.6	672.0
117.5°	758.3	758.5	758.7	758.9	758.7	758.5	758.3	758.1	756.9	754.9	752.8
120°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	809.9	807.8	805.8
122.5°	861.4	861.6	861.9	862.1	861.9	861.6	861.4	861.2	860.4	859.0	857.5
125°	932.5	933.1	933.6	934.1	933.6	933.1	932.5	932.0	931.5	931.0	930.5
127.5°	1004.9	1004.4	1003.9	1003.3	1003.9	1004.4	1004.9	1005.4	1005.2	1004.4	1003.6
130°	1049.5	1049.0	1048.5	1048.0	1048.5	1049.0	1049.5	1050.0	1049.8	1048.7	1047.7
132.5°	1091.0	1090.3	1089.6	1088.8	1089.6	1090.3	1091.0	1091.7	1091.6	1090.6	1089.5
135°	1153.7	1152.9	1152.1	1151.4	1152.1	1152.9	1153.7	1154.5	1154.5	1153.7	1152.9
137.5°	1211.7	1211.2	1210.7	1210.1	1210.7	1211.2	1211.7	1212.2	1211.8	1210.6	1209.4
140°	1247.0	1246.5	1246.0	1245.5	1246.0	1246.5	1247.0	1247.5	1247.3	1246.2	1245.2
142.5°	1280.2	1279.4	1278.7	1278.0	1278.7	1279.4	1280.2	1280.9	1280.8	1280.0	1279.2
145°	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.7	1327.2	1326.7
147.5°	1368.7	1367.5	1366.3	1365.1	1366.3	1367.5	1368.7	1369.9	1370.2	1369.7	1369.2
150°	1395.3	1394.6	1393.8	1393.0	1393.8	1394.6	1395.3	1396.1	1396.2	1395.7	1395.2
152.5°	1418.9	1417.7	1416.5	1415.3	1416.5	1417.7	1418.9	1420.1	1420.2	1419.3	1418.3
155°	1451.1	1449.6	1448.0	1446.5	1448.0	1449.6	1451.1	1452.6	1452.8	1451.5	1450.2
157.5°	1478.8	1476.7	1474.7	1472.7	1474.7	1476.7	1478.8	1480.8	1481.0	1479.4	1477.9
160°	1494.9	1493.1	1491.2	1489.4	1491.2	1493.1	1494.9	1496.7	1496.8	1495.2	1493.7
162.5°	1510.0	1508.4	1506.8	1505.2	1506.8	1508.4	1510.0	1511.6	1511.6	1509.8	1508.1
165°	1529.7	1527.9	1526.1	1524.3	1526.1	1527.9	1529.7	1531.5	1531.4	1529.3	1527.3
167.5°	1544.2	1542.1	1540.1	1538.0	1540.1	1542.1	1544.2	1546.3	1546.3	1544.2	1542.1
170°	1552.6	1550.5	1548.4	1546.4	1548.4	1550.5	1552.6	1554.6	1554.6	1552.6	1550.5
172.5°	1557.8	1555.6	1553.3	1551.0	1553.3	1555.6	1557.8	1560.1	1560.2	1558.1	1556.1
175°	1564.2	1562.1	1560.1	1558.0	1560.1	1562.1	1564.2	1566.2	1566.4	1564.6	1562.8
177.5°	1566.3	1564.2	1562.1	1560.1	1562.1	1564.2	1566.3	1568.3	1568.5	1566.9	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1167.3	1173.2	1179.0	1184.5	1192.9	1196.6	1202.1	1204.2	1210.4	1219.7	1227.2
5°	1096.3	1104.7	1115.7	1124.6	1138.7	1149.7	1161.8	1173.3	1186.9	1206.3	1223.5
7.5°	1036.1	1044.4	1057.6	1074.1	1089.7	1105.3	1121.8	1137.5	1156.9	1184.7	1212.2
10°	996.3	1006.3	1022.0	1039.8	1059.1	1074.3	1093.7	1113.6	1137.7	1169.6	1202.6
12.5°	962.0	969.4	987.6	1004.6	1026.5	1045.8	1064.8	1088.0	1115.5	1149.5	1189.2
15°	907.3	917.8	935.6	954.4	977.5	997.9	1022.5	1050.8	1077.5	1119.4	1167.5
17.5°	852.4	868.4	886.9	908.2	925.2	953.4	980.1	1009.1	1042.0	1086.4	1139.2
20°	817.3	829.8	847.1	878.0	900.5	922.0	946.6	982.7	1013.1	1063.3	1118.3
22.5°	787.5	796.7	816.1	841.6	867.8	892.7	917.7	952.1	989.6	1037.4	1096.9
25°	743.4	758.1	772.8	791.1	819.4	849.2	876.4	905.7	945.5	996.3	1060.7
27.5°	700.4	713.7	728.2	750.7	772.1	800.0	828.5	862.1	904.8	958.5	1023.9
30°	672.8	682.7	696.3	725.1	744.5	768.6	802.1	831.9	871.7	928.8	997.9
32.5°	644.3	657.2	672.0	694.1	718.1	740.9	771.5	803.9	844.5	900.7	971.5
35°	603.7	618.8	634.0	650.2	674.3	697.9	723.5	759.1	800.5	855.0	924.6
37.5°	566.3	578.5	590.9	611.0	633.8	656.2	680.2	715.3	754.2	813.0	876.8
40°	542.4	553.4	562.8	583.8	605.7	629.8	653.4	684.3	726.2	781.1	842.9
42.5°	516.4	526.6	539.4	556.5	580.2	600.5	624.1	653.3	692.7	748.5	802.7
45°	477.5	489.0	500.0	516.2	539.8	559.7	580.6	608.4	648.7	694.8	742.9
47.5°	437.0	448.5	461.0	476.7	497.3	517.5	538.4	563.0	599.8	645.0	677.5
50°	411.0	420.4	433.0	448.7	467.5	489.0	507.8	534.5	569.6	605.2	633.5
52.5°	384.2	392.8	407.0	423.6	441.1	459.7	479.8	502.7	534.4	567.9	590.4
55°	342.4	352.9	364.9	381.1	398.4	414.1	433.5	457.1	482.2	507.3	522.5
57.5°	303.3	312.0	322.2	338.9	353.9	372.7	390.0	408.4	431.6	450.6	460.5
60°	274.9	282.7	295.8	310.5	324.6	340.8	360.7	379.1	396.9	412.0	419.9
62.5°	248.1	257.2	268.6	282.0	297.4	312.8	330.2	345.5	361.2	374.3	379.7
65°	213.1	220.4	228.8	241.4	253.9	269.6	283.2	298.9	310.5	317.8	322.5
67.5°	181.3	186.1	192.5	200.8	213.2	226.9	240.1	252.4	262.0	267.0	271.2
70°	160.7	163.9	168.6	177.0	186.4	198.4	212.0	220.9	229.3	233.5	237.7
72.5°	140.2	144.2	148.5	155.2	162.9	171.6	181.5	192.5	197.1	202.1	204.6
75°	106.3	112.0	117.8	122.0	127.2	134.0	142.9	149.7	152.4	156.5	157.1
77.5°	80.2	81.5	85.7	90.9	95.3	100.2	105.9	111.9	113.2	115.4	116.8
80°	66.0	66.0	66.0	69.1	74.3	78.0	83.2	86.4	88.5	89.0	89.5
82.5°	53.0	53.0	52.6	53.2	55.1	57.1	61.9	65.4	67.1	66.8	65.7
85°	34.6	33.5	33.5	33.0	33.5	32.5	31.9	34.0	37.2	37.2	36.1
87.5°	20.0	19.4	19.1	18.1	17.0	15.9	14.0	13.9	13.4	14.6	13.6
90°	28.9	27.9	24.5	21.2	17.8	14.5	11.5	8.9	6.3	3.7	1.2
92.5°	31.4	29.7	27.2	24.7	22.2	19.6	18.7	19.4	20.2	20.9	21.6
95°	37.8	36.0	33.2	30.3	27.5	24.7	28.5	39.1	49.7	60.3	70.9
97.5°	39.5	37.4	56.0	74.6	93.2	111.8	123.4	128.2	132.9	137.7	142.4
100°	40.4	38.3	78.6	118.9	159.2	199.4	217.0	211.8	206.7	201.5	196.3
102.5°	70.0	76.4	120.4	164.4	208.4	252.4	272.6	268.8	265.1	261.4	257.7
105°	208.7	254.4	277.7	300.9	324.1	347.4	357.6	354.7	351.9	349.1	346.2
107.5°	432.8	466.4	462.7	459.0	455.4	451.7	448.7	446.4	444.2	441.9	439.6
110°	515.5	524.0	521.1	518.3	515.5	512.6	510.2	508.1	506.0	504.0	501.9



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	582.7	582.5	579.7	576.9	574.0	571.2	568.8	567.0	565.1	563.2	561.4
115°	669.5	666.9	664.6	662.2	659.9	657.6	655.6	654.1	652.5	651.0	649.5
117.5°	750.7	748.7	747.5	746.3	745.1	743.9	742.4	740.5	738.5	736.6	734.7
120°	803.7	801.6	800.9	800.1	799.3	798.6	797.0	794.7	792.4	790.0	787.7
122.5°	856.1	854.6	853.6	852.7	851.7	850.7	849.3	847.3	845.4	843.5	841.6
125°	930.0	929.4	928.4	927.4	926.3	925.3	923.8	921.7	919.6	917.6	915.5
127.5°	1002.8	1001.9	1000.7	999.5	998.2	997.0	995.3	993.3	991.2	989.1	987.1
130°	1046.7	1045.6	1044.6	1043.6	1042.5	1041.5	1039.9	1037.9	1035.8	1033.8	1031.7
132.5°	1088.5	1087.5	1086.6	1085.8	1085.0	1084.1	1082.7	1080.6	1078.6	1076.5	1074.4
135°	1152.1	1151.4	1150.3	1149.3	1148.3	1147.2	1145.9	1144.4	1142.8	1141.3	1139.7
137.5°	1208.1	1206.9	1206.3	1205.8	1205.2	1204.6	1203.4	1201.4	1199.4	1197.5	1195.5
140°	1244.2	1243.1	1242.4	1241.6	1240.8	1240.0	1238.9	1237.3	1235.8	1234.2	1232.7
142.5°	1278.4	1277.5	1276.8	1276.0	1275.2	1274.4	1273.3	1271.7	1270.2	1268.6	1267.1
145°	1326.1	1325.6	1325.1	1324.6	1324.1	1323.6	1322.4	1320.6	1318.8	1317.0	1315.2
147.5°	1368.7	1368.1	1367.6	1367.1	1366.6	1366.1	1365.2	1364.0	1362.9	1361.7	1360.5
150°	1394.7	1394.2	1393.7	1393.1	1392.6	1392.1	1391.5	1390.7	1389.9	1389.1	1388.4
152.5°	1417.4	1416.5	1416.2	1415.9	1415.5	1415.2	1414.9	1414.5	1414.2	1413.8	1413.5
155°	1448.9	1447.6	1447.4	1447.1	1446.8	1446.6	1446.7	1447.2	1447.7	1448.3	1448.8
157.5°	1476.4	1474.8	1475.1	1475.3	1475.6	1475.8	1476.0	1476.0	1476.1	1476.1	1476.2
160°	1492.2	1490.6	1490.9	1491.1	1491.4	1491.6	1491.9	1492.2	1492.4	1492.7	1492.9
162.5°	1506.3	1504.5	1504.8	1505.1	1505.3	1505.6	1506.0	1506.7	1507.4	1508.1	1508.7
165°	1525.2	1523.1	1523.4	1523.6	1523.9	1524.2	1524.7	1525.5	1526.2	1527.0	1527.8
167.5°	1540.1	1538.0	1538.0	1538.0	1538.0	1538.0	1538.5	1539.6	1540.6	1541.6	1542.7
170°	1548.4	1546.4	1546.4	1546.4	1546.4	1546.4	1546.9	1547.9	1549.0	1550.0	1551.0
172.5°	1554.0	1551.9	1551.7	1551.5	1551.3	1551.1	1551.6	1552.9	1554.1	1555.4	1556.6
175°	1561.0	1559.1	1558.9	1558.6	1558.4	1558.1	1558.6	1559.9	1561.2	1562.5	1563.8
177.5°	1563.6	1561.9	1561.7	1561.5	1561.3	1561.1	1561.5	1562.6	1563.6	1564.6	1565.7
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1229.7	1234.3	1240.2	1249.0	1255.7	1261.5	1262.8	1264.5	1268.7	1275.8	1281.2
5°	1237.7	1249.7	1269.1	1287.9	1308.4	1325.1	1340.8	1351.8	1362.3	1384.3	1402.1
7.5°	1235.2	1262.0	1292.3	1326.2	1360.4	1393.6	1424.4	1451.9	1479.3	1511.4	1547.9
10°	1233.5	1264.9	1305.7	1349.2	1396.8	1443.4	1488.5	1523.5	1564.4	1601.0	1647.6
12.5°	1225.5	1270.8	1319.6	1375.2	1433.7	1487.4	1546.7	1595.2	1641.9	1694.8	1749.0
15°	1215.2	1270.1	1331.9	1405.7	1494.7	1559.7	1620.4	1704.7	1762.3	1819.9	1897.3
17.5°	1196.2	1263.3	1340.5	1436.4	1510.7	1597.9	1689.3	1755.9	1833.5	1914.6	1984.8
20°	1181.1	1259.1	1345.5	1439.8	1534.5	1629.3	1717.8	1797.3	1877.5	1971.2	2028.8
22.5°	1166.1	1243.2	1333.0	1433.1	1534.9	1634.7	1734.9	1828.3	1918.5	2013.1	2086.6
25°	1134.0	1225.6	1323.0	1425.1	1525.6	1635.6	1754.9	1859.1	1970.6	2068.0	2137.7
27.5°	1101.5	1185.5	1282.5	1386.0	1497.8	1627.7	1768.1	1886.6	1998.3	2068.0	2089.9
30°	1072.2	1161.2	1250.2	1355.5	1476.4	1621.4	1770.6	1906.2	1997.9	2028.2	2005.7
32.5°	1042.5	1123.1	1211.3	1319.0	1447.5	1605.9	1774.0	1894.5	1949.7	1926.5	1834.8
35°	990.0	1062.8	1148.1	1256.0	1403.6	1597.4	1760.2	1841.8	1828.2	1697.3	1524.6
37.5°	933.9	993.2	1072.2	1185.0	1358.2	1563.3	1700.7	1712.7	1594.9	1394.0	1194.4
40°	889.5	942.9	1024.1	1141.9	1323.0	1529.8	1640.8	1592.1	1409.4	1185.8	1019.4
42.5°	846.4	891.4	969.6	1096.6	1289.5	1484.2	1551.6	1445.5	1234.7	1023.3	871.9
45°	773.3	815.7	894.2	1024.6	1220.9	1396.8	1387.9	1203.6	992.7	822.5	696.8
47.5°	704.0	741.0	814.7	947.8	1140.4	1265.9	1182.7	986.6	807.6	671.1	581.5
50°	655.0	691.6	764.9	896.3	1075.9	1167.5	1048.7	859.7	695.8	582.7	511.5
52.5°	608.1	643.9	710.9	838.9	998.0	1052.8	925.1	749.9	613.3	515.7	454.5
55°	542.4	569.6	629.8	752.3	871.2	883.8	754.4	607.8	495.3	427.2	385.3
57.5°	475.5	498.9	558.4	656.0	739.4	732.9	610.3	483.4	407.6	357.1	326.7
60°	431.9	455.0	507.3	591.1	653.9	631.9	519.4	417.3	352.3	315.2	291.1
62.5°	391.3	409.3	458.3	519.5	564.7	539.8	444.0	359.5	308.0	276.6	257.6
65°	332.5	347.1	386.4	418.3	443.4	419.4	339.8	281.1	244.0	222.0	208.9
67.5°	276.5	285.9	310.7	322.2	339.9	313.5	255.5	216.2	195.1	176.5	167.4
70°	241.4	248.2	261.3	270.7	275.4	248.2	205.2	176.4	158.6	145.5	139.8
72.5°	206.2	212.1	214.8	222.5	220.1	194.6	165.0	142.1	129.3	120.4	113.0
75°	157.6	160.2	157.6	154.4	147.6	129.8	109.4	97.9	88.5	84.3	81.7
77.5°	114.9	114.0	110.5	105.5	93.9	82.7	71.7	67.9	63.8	61.6	60.6
80°	88.5	86.4	83.2	75.4	65.4	57.6	55.0	52.4	50.8	48.2	47.6
82.5°	65.9	64.6	59.4	52.8	45.8	42.1	39.9	39.0	37.4	36.0	35.9
85°	35.1	33.5	27.7	24.1	23.0	22.0	21.5	21.5	19.4	18.8	18.8
87.5°	12.1	10.1	10.2	9.4	10.0	9.8	10.9	10.8	11.0	11.6	11.0
90°	3.7	6.3	8.9	11.5	14.5	17.8	21.2	24.5	27.9	28.9	29.9
92.5°	20.9	20.2	19.4	18.7	19.6	22.2	24.7	27.2	29.7	31.4	33.0
95°	60.3	49.7	39.1	28.5	24.7	27.5	30.3	33.2	36.0	37.8	39.6
97.5°	137.7	132.9	128.2	123.4	111.8	93.2	74.6	56.0	37.4	39.5	41.5
100°	201.5	206.7	211.8	217.0	199.4	159.2	118.9	78.6	38.3	40.4	42.5
102.5°	261.4	265.1	268.8	272.6	252.4	208.4	164.4	120.4	76.4	70.0	63.6
105°	349.1	351.9	354.7	357.6	347.4	324.1	300.9	277.7	254.4	208.7	163.0
107.5°	441.9	444.2	446.4	448.7	451.7	455.4	459.0	462.7	466.4	432.8	399.3
110°	504.0	506.0	508.1	510.2	512.6	515.5	518.3	521.1	524.0	515.5	506.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	563.2	565.1	567.0	568.8	571.2	574.0	576.9	579.7	582.5	582.7	582.8
115°	651.0	652.5	654.1	655.6	657.6	659.9	662.2	664.6	666.9	669.5	672.0
117.5°	736.6	738.5	740.5	742.4	743.9	745.1	746.3	747.5	748.7	750.7	752.8
120°	790.0	792.4	794.7	797.0	798.6	799.3	800.1	800.9	801.6	803.7	805.8
122.5°	843.5	845.4	847.3	849.3	850.7	851.7	852.7	853.6	854.6	856.1	857.5
125°	917.6	919.6	921.7	923.8	925.3	926.3	927.4	928.4	929.4	930.0	930.5
127.5°	989.1	991.2	993.3	995.3	997.0	998.2	999.5	1000.7	1001.9	1002.8	1003.6
130°	1033.8	1035.8	1037.9	1039.9	1041.5	1042.5	1043.6	1044.6	1045.6	1046.7	1047.7
132.5°	1076.5	1078.6	1080.6	1082.7	1084.1	1085.0	1085.8	1086.6	1087.5	1088.5	1089.5
135°	1141.3	1142.8	1144.4	1145.9	1147.2	1148.3	1149.3	1150.3	1151.4	1152.1	1152.9
137.5°	1197.5	1199.4	1201.4	1203.4	1204.6	1205.2	1205.8	1206.3	1206.9	1208.1	1209.4
140°	1234.2	1235.8	1237.3	1238.9	1240.0	1240.8	1241.6	1242.4	1243.1	1244.2	1245.2
142.5°	1268.6	1270.2	1271.7	1273.3	1274.4	1275.2	1276.0	1276.8	1277.5	1278.4	1279.2
145°	1317.0	1318.8	1320.6	1322.4	1323.6	1324.1	1324.6	1325.1	1325.6	1326.1	1326.7
147.5°	1361.7	1362.9	1364.0	1365.2	1366.1	1366.6	1367.1	1367.6	1368.1	1368.7	1369.2
150°	1389.1	1389.9	1390.7	1391.5	1392.1	1392.6	1393.1	1393.7	1394.2	1394.7	1395.2
152.5°	1413.8	1414.2	1414.5	1414.9	1415.2	1415.5	1415.9	1416.2	1416.5	1417.4	1418.3
155°	1448.3	1447.7	1447.2	1446.7	1446.6	1446.8	1447.1	1447.4	1447.6	1448.9	1450.2
157.5°	1476.1	1476.1	1476.0	1476.0	1475.8	1475.6	1475.3	1475.1	1474.8	1476.4	1477.9
160°	1492.7	1492.4	1492.2	1491.9	1491.6	1491.4	1491.1	1490.9	1490.6	1492.2	1493.7
162.5°	1508.1	1507.4	1506.7	1506.0	1505.6	1505.3	1505.1	1504.8	1504.5	1506.3	1508.1
165°	1527.0	1526.2	1525.5	1524.7	1524.2	1523.9	1523.6	1523.4	1523.1	1525.2	1527.3
167.5°	1541.6	1540.6	1539.6	1538.5	1538.0	1538.0	1538.0	1538.0	1538.0	1540.1	1542.1
170°	1550.0	1549.0	1547.9	1546.9	1546.4	1546.4	1546.4	1546.4	1546.4	1548.4	1550.5
172.5°	1555.4	1554.1	1552.9	1551.6	1551.1	1551.3	1551.5	1551.7	1551.9	1554.0	1556.1
175°	1562.5	1561.2	1559.9	1558.6	1558.1	1558.4	1558.6	1558.9	1559.1	1561.0	1562.8
177.5°	1564.6	1563.6	1562.6	1561.5	1561.1	1561.3	1561.5	1561.7	1561.9	1563.6	1565.2
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1290.0	1290.0	1291.7	1298.0	1298.8	1304.3	1302.6
5°	1417.8	1427.7	1431.4	1447.1	1456.5	1460.7	1452.3
7.5°	1574.0	1602.1	1615.4	1631.8	1646.4	1650.8	1639.3
10°	1687.9	1717.2	1741.9	1757.0	1771.2	1780.6	1792.6
12.5°	1798.1	1834.1	1857.5	1878.9	1893.5	1905.4	1907.4
15°	1917.8	1972.2	2013.6	2043.9	2059.1	2067.0	2063.8
17.5°	2038.5	2089.0	2118.4	2149.4	2170.4	2171.5	2172.1
20°	2106.8	2156.0	2190.0	2213.0	2236.6	2235.6	2240.8
22.5°	2152.4	2191.2	2217.2	2234.0	2242.1	2238.1	2239.1
25°	2173.8	2185.3	2180.6	2153.9	2147.1	2122.5	2126.7
27.5°	2063.6	2009.2	1952.8	1880.4	1823.2	1777.6	1779.9
30°	1914.1	1817.8	1707.8	1615.7	1533.0	1509.9	1460.7
32.5°	1705.1	1560.6	1431.8	1345.9	1274.9	1255.7	1212.8
35°	1350.8	1210.4	1078.0	998.4	967.0	923.0	922.5
37.5°	1049.9	926.4	856.3	796.6	765.3	738.7	736.1
40°	883.2	786.9	734.0	691.1	660.2	640.3	635.6
42.5°	766.8	688.9	639.4	612.8	589.0	578.7	571.1
45°	626.2	573.8	539.3	515.2	504.2	496.3	492.1
47.5°	523.8	488.7	465.1	449.1	440.2	431.9	434.1
50°	468.1	439.3	422.0	406.8	400.0	394.2	394.8
52.5°	423.2	397.4	383.4	372.5	364.0	359.9	357.9
55°	359.2	342.9	328.8	320.9	316.2	310.5	308.9
57.5°	306.4	293.8	282.3	273.4	272.2	266.7	267.4
60°	271.2	260.7	251.3	246.6	242.9	238.2	239.8
62.5°	242.3	233.5	224.9	221.0	217.4	213.9	214.7
65°	198.4	190.0	184.8	182.7	181.1	179.6	178.0
67.5°	158.1	153.0	149.7	145.2	142.0	141.5	139.9
70°	133.0	126.2	120.4	114.7	113.1	112.6	113.1
72.5°	106.6	102.3	100.7	97.9	97.6	96.2	97.2
75°	80.1	78.5	77.5	75.4	75.4	75.4	75.4
77.5°	59.1	58.1	57.5	57.1	56.5	55.8	55.7
80°	46.1	45.5	44.5	44.5	44.0	44.5	44.0
82.5°	34.8	34.7	33.6	33.6	33.1	32.8	33.1
85°	17.8	17.3	18.3	17.3	17.8	16.8	17.8
87.5°	11.2	11.4	11.2	11.3	11.0	11.9	11.2
90°	31.0	32.0	32.8	33.3	33.8	34.3	34.9
92.5°	34.7	36.4	37.3	37.6	38.0	38.3	38.6
95°	41.4	43.2	44.1	44.1	44.1	44.1	44.1
97.5°	43.6	45.7	46.8	47.1	47.4	47.6	47.9
100°	44.5	46.6	47.8	48.0	48.3	48.5	48.8
102.5°	57.2	50.8	47.9	48.3	48.8	49.3	49.7
105°	117.3	71.6	49.1	49.6	50.1	50.6	51.1
107.5°	365.8	332.3	298.3	263.9	229.4	195.0	160.6
110°	498.4	489.9	467.2	430.3	393.3	356.4	319.5



TEST NUMBER: P332324

CATALOG NUMBER: S123RDIP-S775D1195U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	583.0	583.2	579.3	571.5	563.7	555.9	548.1
115°	674.6	677.2	679.0	680.0	681.1	682.1	683.1
117.5°	754.9	756.9	758.1	758.3	758.5	758.7	758.9
120°	807.8	809.9	810.9	810.9	810.9	810.9	810.9
122.5°	859.0	860.4	861.2	861.4	861.6	861.9	862.1
125°	931.0	931.5	932.0	932.5	933.1	933.6	934.1
127.5°	1004.4	1005.2	1005.4	1004.9	1004.4	1003.9	1003.3
130°	1048.7	1049.8	1050.0	1049.5	1049.0	1048.5	1048.0
132.5°	1090.6	1091.6	1091.7	1091.0	1090.3	1089.6	1088.8
135°	1153.7	1154.5	1154.5	1153.7	1152.9	1152.1	1151.4
137.5°	1210.6	1211.8	1212.2	1211.7	1211.2	1210.7	1210.1
140°	1246.2	1247.3	1247.5	1247.0	1246.5	1246.0	1245.5
142.5°	1280.0	1280.8	1280.9	1280.2	1279.4	1278.7	1278.0
145°	1327.2	1327.7	1327.9	1327.9	1327.9	1327.9	1327.9
147.5°	1369.7	1370.2	1369.9	1368.7	1367.5	1366.3	1365.1
150°	1395.7	1396.2	1396.1	1395.3	1394.6	1393.8	1393.0
152.5°	1419.3	1420.2	1420.1	1418.9	1417.7	1416.5	1415.3
155°	1451.5	1452.8	1452.6	1451.1	1449.6	1448.0	1446.5
157.5°	1479.4	1481.0	1480.8	1478.8	1476.7	1474.7	1472.7
160°	1495.2	1496.8	1496.7	1494.9	1493.1	1491.2	1489.4
162.5°	1509.8	1511.6	1511.6	1510.0	1508.4	1506.8	1505.2
165°	1529.3	1531.4	1531.5	1529.7	1527.9	1526.1	1524.3
167.5°	1544.2	1546.3	1546.3	1544.2	1542.1	1540.1	1538.0
170°	1552.6	1554.6	1554.6	1552.6	1550.5	1548.4	1546.4
172.5°	1558.1	1560.2	1560.1	1557.8	1555.6	1553.3	1551.0
175°	1564.6	1566.4	1566.2	1564.2	1562.1	1560.1	1558.0
177.5°	1566.9	1568.5	1568.3	1566.3	1564.2	1562.1	1560.1
180°	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8	1563.8

(END OF REPORT)