

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: P331821-935

Luminaire Tested: **S122RDIW-S675D1440U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331821-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122RDIW-S675D1440U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1440 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

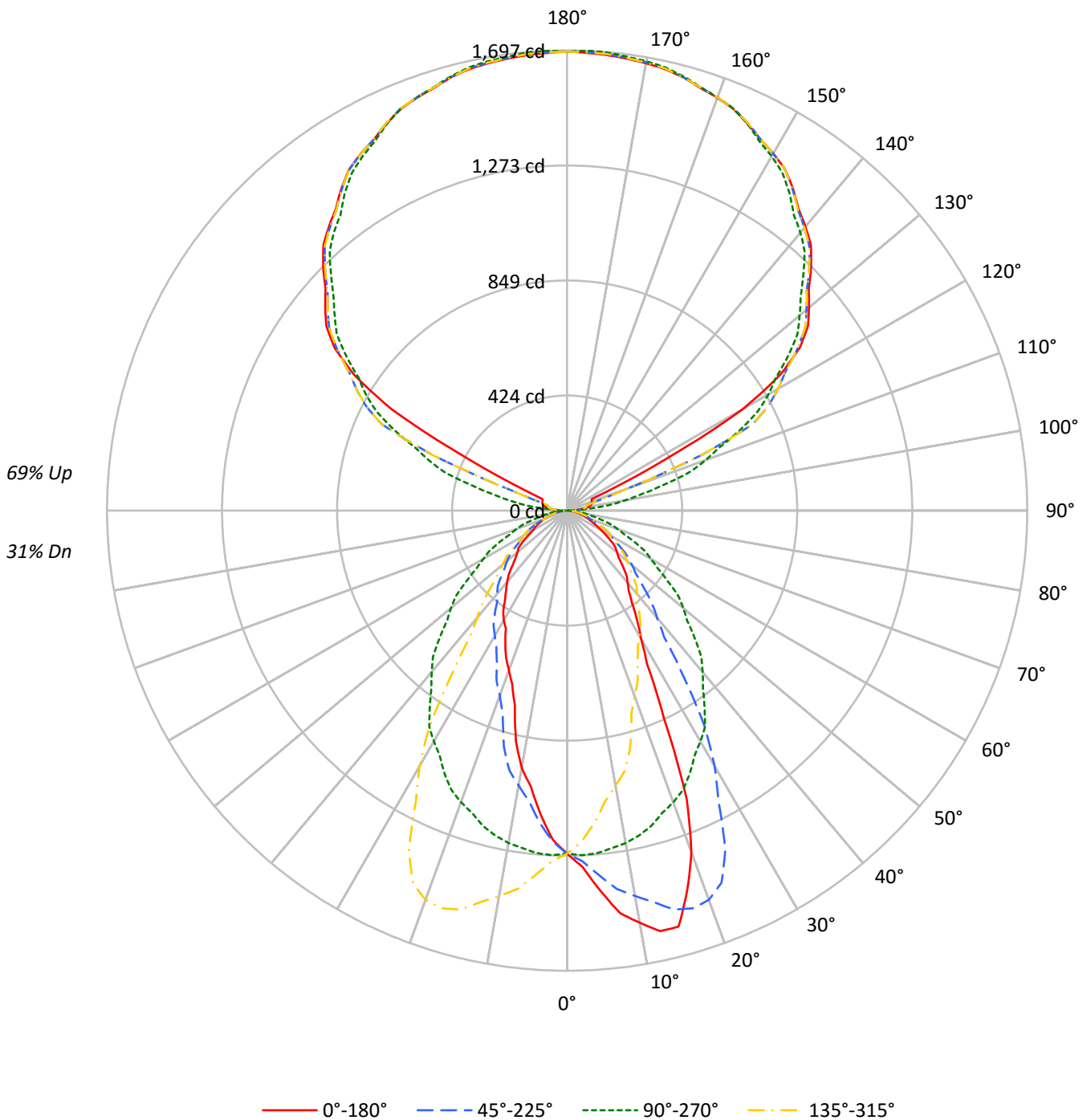
Lumens per Lamp: N/A  
Luminaire Lumens: 7149.6 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	46	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	20423	20423	20423	20423
5°	22809	20551	18220	20551
10°	25306	20407	15795	20407
15°	26551	20107	12445	20107
20°	23017	19663	10768	19663
25°	15096	19057	9615	19057
30°	10161	18321	8701	18321
35°	8229	17394	7849	17394
40°	7318	16387	7263	16387
45°	6624	15203	6485	15203
50°	6028	14031	6006	14031
55°	5666	12732	5590	12732
60°	4740	11538	4682	11538
65°	3996	10476	4531	10476
70°	3696	9356	4277	9356
75°	3456	8141	3949	8141
80°	3189	6704	3515	6704
85°	2927	5298	3094	5298



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	1.7
10°-20°	334.1	4.7
20°-30°	430.5	6.0
30°-40°	409.1	5.7
40°-50°	350.5	4.9
50°-60°	266.9	3.7
60°-70°	168.7	2.4
70°-80°	84.3	1.2
80°-90°	26.1	0.4
90°-100°	56.5	0.8
100°-110°	207.0	2.9
110°-120°	553.4	7.7
120°-130°	913.5	12.8
130°-140°	971.4	13.6
140°-150°	902.9	12.6
150°-160°	726.0	10.2
160°-170°	467.8	6.5
170°-180°	161.0	2.3
0°-30°	884.5	12.4
0°-40°	1293.7	18.1
0°-60°	1911.1	26.7
0°-90°	2190.2	30.6
90°-120°	816.8	11.4
90°-150°	3604.6	50.4
90°-180°	4959.0	69.4
0°-180°	7149.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1265	1265	1265	1265	1265	
5°	1407	1268	1124	1268	1407	139
15°	1588	1203	744	1203	1588	428
25°	847	1070	540	1070	847	402
35°	418	882	398	882	418	267
45°	290	666	284	666	290	224
55°	201	452	199	452	201	177
65°	105	274	119	274	105	106
75°	55	130	63	130	55	59
85°	16	29	17	29	16	18
90°	33	1	33	1	33	15
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	704	100	704	100	251
125°	1047	996	1047	996	1047	906
135°	1272	1232	1272	1232	1272	981
145°	1451	1429	1451	1429	1451	907
155°	1575	1574	1575	1574	1575	727
165°	1654	1658	1654	1658	1654	467
175°	1686	1696	1686	1696	1686	161
180°	1692	1692	1692	1692	1692	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1316.2	1317.2	1318.4	1315.9	1315.9	1313.7	1309.2	1305.7	1295.8	1294.4	1294.4
5°	1407.3	1406.4	1408.2	1402.5	1394.6	1392.8	1384.4	1373.5	1362.0	1349.3	1346.6
7.5°	1497.8	1496.5	1493.0	1492.0	1485.9	1472.7	1459.2	1444.9	1425.9	1407.4	1398.1
10°	1543.5	1558.1	1549.2	1533.9	1537.0	1516.3	1505.3	1486.4	1470.6	1442.9	1436.8
12.5°	1588.5	1594.2	1591.5	1582.7	1578.7	1564.4	1549.6	1533.2	1504.0	1479.1	1457.5
15°	1588.4	1596.7	1598.9	1596.3	1598.4	1597.6	1589.7	1576.1	1550.6	1523.3	1499.6
17.5°	1471.1	1476.9	1491.3	1501.1	1513.4	1539.4	1552.2	1557.2	1553.4	1537.9	1521.2
20°	1339.6	1329.9	1370.4	1391.0	1408.6	1452.5	1490.3	1504.9	1528.1	1527.7	1523.3
22.5°	1153.2	1155.5	1193.9	1218.4	1269.7	1313.6	1356.8	1411.4	1456.4	1486.2	1503.7
25°	847.4	864.1	902.3	935.7	992.8	1074.6	1148.8	1235.0	1316.3	1380.4	1441.6
27.5°	636.4	637.7	668.0	698.8	732.7	799.7	893.2	996.1	1112.0	1207.6	1317.7
30°	545.0	542.3	555.1	574.0	603.0	654.9	725.1	826.3	941.8	1086.0	1214.4
32.5°	480.3	480.4	490.1	504.0	528.1	563.1	611.2	693.4	802.6	944.3	1094.8
35°	417.5	417.1	424.1	434.2	444.4	466.7	499.7	542.8	617.9	750.2	904.0
37.5°	372.6	374.4	377.9	384.2	395.4	407.9	427.7	456.6	510.1	588.3	717.6
40°	347.2	348.1	352.9	358.2	364.8	374.4	390.7	414.0	453.1	515.6	610.0
42.5°	324.0	324.9	328.3	333.2	338.4	348.1	361.5	381.7	413.4	462.1	540.0
45°	290.1	290.1	293.2	295.3	301.1	309.9	320.8	337.5	359.6	395.5	447.4
47.5°	258.2	258.3	260.4	264.2	267.8	274.6	285.4	299.0	315.0	342.9	387.2
50°	240.0	240.4	241.7	244.8	247.0	253.1	261.5	273.4	290.1	311.6	348.5
52.5°	225.2	224.9	226.6	227.9	229.5	233.8	240.0	250.6	265.4	284.2	314.8
55°	201.3	199.5	202.2	204.4	205.7	207.4	210.9	217.6	230.3	246.2	269.0
57.5°	171.4	170.7	172.5	174.6	178.7	183.5	186.4	190.6	197.3	208.6	231.3
60°	146.8	146.8	150.8	152.1	156.9	163.1	169.2	172.7	179.3	186.8	203.5
62.5°	125.0	125.4	127.2	128.5	131.2	138.8	147.4	155.2	161.4	168.5	179.6
65°	104.6	105.5	105.5	106.3	108.1	109.9	113.4	119.5	130.5	140.6	149.0
67.5°	88.8	89.0	89.3	90.1	90.7	92.6	93.9	96.7	99.3	108.8	119.2
70°	78.3	79.6	79.1	80.0	80.4	81.3	83.1	84.4	88.3	90.6	96.7
72.5°	68.4	69.3	69.2	69.8	70.9	71.1	72.5	73.9	76.4	78.3	81.5
75°	55.4	54.9	55.4	56.2	56.7	57.2	57.2	58.9	60.2	62.0	64.1
77.5°	42.7	43.1	43.0	43.1	43.2	44.0	43.9	44.8	46.1	46.9	48.0
80°	34.3	34.7	34.3	34.7	35.1	35.6	35.1	35.6	36.9	37.8	37.8
82.5°	26.5	26.6	26.9	26.9	27.0	27.1	27.8	27.9	28.8	28.7	29.0
85°	15.8	15.4	15.4	15.4	15.8	16.3	15.8	15.8	16.3	16.3	16.3
87.5°	12.2	12.5	12.4	12.2	12.1	12.0	11.7	11.8	11.1	11.2	10.4
90°	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2	25.8	24.5	22.3
92.5°	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8	29.1	28.4	27.3
95°	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5	49.1	47.8	45.9
97.5°	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1	65.0	63.9	59.5
100°	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1	72.0	69.8	65.2
102.5°	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4	74.6	71.7	110.5
105°	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7	77.7	74.7	149.0
107.5°	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5	101.5	104.6	193.6
110°	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9	187.1	214.3	292.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0	441.3	540.5	559.9
115°	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6	629.6	755.5	748.7
117.5°	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9	806.4	836.9	832.2
120°	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1	900.9	897.6	892.7
122.5°	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3	957.3	955.4	950.0
125°	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5	1036.6	1034.7	1029.6
127.5°	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8	1109.1	1106.3	1102.4
130°	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3	1155.3	1152.3	1149.3
132.5°	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4	1200.9	1198.3	1195.3
135°	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9	1265.2	1262.5	1260.1
137.5°	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8	1325.2	1322.5	1319.7
140°	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6	1364.2	1361.7	1358.7
142.5°	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4	1400.2	1397.9	1394.5
145°	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4	1450.5	1448.6	1444.0
147.5°	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1	1494.6	1493.2	1488.7
150°	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9	1521.3	1519.7	1515.3
152.5°	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4	1545.8	1544.1	1540.0
155°	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5	1578.8	1577.2	1574.0
157.5°	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3	1606.5	1604.6	1602.3
160°	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5	1622.9	1621.3	1619.6
162.5°	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7	1637.9	1636.0	1634.6
165°	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3	1653.6
167.5°	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6	1671.7	1669.8	1669.0
170°	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4	1679.6	1677.7	1677.1
172.5°	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3	1685.4	1683.5	1683.0
175°	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7	1691.8	1689.9	1689.4
177.5°	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4	1692.9	1691.3	1691.1
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1295.1	1292.3	1289.9	1283.5	1280.4	1273.3	1272.3	1272.0	1262.7	1254.0	1251.5
5°	1339.6	1332.6	1322.0	1309.7	1296.9	1283.8	1275.0	1268.0	1250.3	1233.6	1224.0
7.5°	1384.4	1369.3	1351.1	1327.8	1308.4	1286.6	1270.4	1255.9	1231.0	1207.0	1190.9
10°	1417.8	1393.2	1369.1	1337.0	1311.9	1287.3	1264.5	1244.7	1216.5	1184.9	1162.4
12.5°	1438.6	1411.5	1378.2	1346.8	1314.4	1283.1	1252.5	1227.1	1194.0	1161.3	1134.7
15°	1466.6	1437.6	1397.1	1352.4	1310.6	1269.7	1234.6	1202.9	1159.9	1120.8	1088.2
17.5°	1489.5	1449.7	1406.2	1354.4	1306.1	1254.0	1208.8	1168.4	1120.4	1073.2	1034.9
20°	1496.9	1457.4	1407.3	1355.4	1298.3	1237.2	1188.4	1144.4	1093.0	1041.6	997.6
22.5°	1492.4	1461.6	1405.8	1343.8	1285.3	1221.3	1166.2	1115.3	1058.3	1005.7	954.8
25°	1461.4	1450.8	1398.1	1330.3	1263.6	1189.3	1125.6	1069.7	1004.7	948.5	893.0
27.5°	1389.0	1411.8	1379.1	1307.0	1232.7	1153.1	1081.4	1017.9	950.4	887.1	831.9
30°	1319.4	1371.7	1357.6	1290.8	1207.7	1129.5	1049.1	982.7	910.7	845.6	791.1
32.5°	1224.1	1310.5	1324.2	1268.3	1182.4	1096.5	1012.2	946.2	870.9	802.4	749.2
35°	1072.4	1201.6	1260.9	1225.3	1139.2	1046.5	959.4	882.5	806.9	739.3	686.5
37.5°	891.4	1067.4	1166.2	1168.8	1089.7	993.2	898.5	822.2	744.8	678.3	621.3
40°	774.0	964.7	1093.5	1122.1	1055.2	951.1	855.2	777.5	701.9	636.8	571.4
42.5°	668.5	858.5	1016.8	1066.5	1013.4	909.9	813.8	732.5	659.0	597.4	530.5
45°	540.6	706.7	881.2	970.0	940.6	844.7	743.2	665.8	596.8	543.6	479.5
47.5°	456.0	573.1	741.9	862.0	861.5	774.0	674.2	600.1	536.1	486.3	434.3
50°	407.9	509.8	652.6	788.9	800.3	726.9	632.0	558.6	498.9	446.5	404.8
52.5°	364.6	448.7	577.0	707.7	740.2	676.7	584.5	516.8	458.7	410.7	374.9
55°	308.1	373.2	470.7	592.9	642.1	597.3	515.6	452.3	405.2	364.8	334.0
57.5°	260.6	309.4	387.7	486.1	543.4	515.2	447.7	396.3	356.1	319.5	295.2
60°	230.7	270.7	337.1	419.3	482.6	462.8	405.2	357.3	323.0	291.4	268.5
62.5°	202.6	236.9	293.9	360.6	418.6	410.4	363.3	323.2	293.2	264.3	245.0
65°	163.1	188.1	232.5	284.8	331.4	335.4	301.5	274.2	247.5	224.5	207.4
67.5°	129.8	146.2	177.5	221.5	256.4	268.9	248.2	227.4	206.1	188.5	173.6
70°	109.4	122.6	145.5	181.1	213.2	226.4	214.5	198.2	179.8	165.2	152.5
72.5°	88.7	101.5	118.4	144.5	172.0	186.2	182.1	170.5	155.5	143.4	131.4
75°	66.8	70.8	82.2	99.8	121.3	133.6	136.7	130.5	118.6	109.4	102.4
77.5°	49.4	51.7	57.3	66.5	80.5	91.5	96.0	95.3	87.1	81.7	75.2
80°	39.5	40.9	43.5	47.4	58.0	69.0	72.1	72.1	66.4	64.1	57.6
82.5°	30.0	31.0	32.6	34.8	39.7	49.3	52.8	53.5	49.9	46.9	41.8
85°	17.1	16.7	17.6	18.9	19.8	22.4	27.7	28.6	27.7	24.2	22.8
87.5°	10.0	9.9	9.5	8.6	8.4	8.1	9.3	10.4	9.6	9.2	9.0
90°	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7	24.5	24.2	23.9
95°	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6	70.6	61.6	52.7
97.5°	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0	132.7	107.4	82.1
100°	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7	179.4	142.2	104.9
102.5°	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4	273.5	265.6	257.7
105°	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3	380.4	388.6	396.7
107.5°	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9	482.4	489.0	495.6
110°	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5	548.2	553.9	559.6





TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2	610.2	615.3	620.4
115°	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1	708.8	713.3	718.0
117.5°	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6	797.7	802.9	808.0
120°	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2	861.3	865.3	869.4
122.5°	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1	916.4	920.7	925.0
125°	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6	999.1	1002.6	1006.2
127.5°	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3	1075.1	1079.1	1083.0
130°	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2	1123.6	1127.9	1132.3
132.5°	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2	1171.9	1175.6	1179.3
135°	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9	1236.2	1240.6	1244.9
137.5°	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3	1299.3	1302.4	1305.4
140°	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4	1340.6	1342.8	1345.0
142.5°	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7	1375.6	1377.6	1379.6
145°	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1	1428.7	1428.5	1428.2
147.5°	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3	1476.3	1475.2	1474.2
150°	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6	1506.8	1504.9	1503.0
152.5°	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1	1533.0	1530.9	1528.7
155°	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6	1571.1	1568.7	1566.2
157.5°	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7	1601.6	1599.6	1597.5
160°	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1619.6	1618.1	1616.4
162.5°	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9	1635.4	1633.7	1632.1
165°	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0	1656.4	1654.8	1653.1
167.5°	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7	1672.1	1670.4	1668.8
170°	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6	1680.9	1679.3	1677.7
172.5°	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4	1686.8	1685.1	1683.5
175°	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0	1694.1	1692.2	1690.3
177.5°	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2	1695.7	1694.2	1692.6
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1247.0	1244.5	1239.9	1232.9	1228.6	1221.2	1216.3	1219.2	1219.9	1219.2	1218.5
5°	1213.5	1204.2	1191.5	1179.1	1167.8	1155.5	1148.4	1145.3	1139.2	1135.7	1133.9
7.5°	1172.9	1157.0	1139.0	1117.6	1099.3	1080.3	1070.6	1065.7	1053.1	1046.3	1040.3
10°	1142.7	1117.7	1099.7	1071.5	1054.4	1029.3	1012.2	1012.6	995.5	985.8	978.8
12.5°	1109.3	1081.8	1051.8	1026.5	1002.6	982.6	961.9	953.6	935.3	926.0	907.1
15°	1054.0	1021.8	990.2	955.9	931.8	900.5	870.6	834.1	804.7	779.2	772.2
17.5°	993.4	953.7	922.0	881.8	840.3	787.8	753.2	732.0	714.3	700.9	690.8
20°	951.9	911.5	877.7	817.0	761.2	725.7	700.2	683.9	665.4	650.9	643.0
22.5°	908.4	866.2	820.0	752.3	708.9	680.3	657.5	638.9	626.4	615.0	607.9
25°	846.4	800.3	724.3	677.7	642.6	612.7	596.8	585.4	572.2	556.8	549.8
27.5°	781.1	707.7	653.1	618.5	584.9	565.4	551.2	534.2	522.4	515.5	508.2
30°	732.2	658.8	616.2	578.4	554.7	533.1	516.4	506.8	495.3	483.5	478.6
32.5°	677.7	619.1	578.2	546.7	522.6	504.3	491.1	475.4	467.2	459.9	449.8
35°	610.0	565.7	528.3	502.8	479.9	465.0	449.6	440.4	425.4	419.3	415.3
37.5°	552.7	514.2	486.4	459.4	441.3	424.8	415.4	400.7	394.3	385.7	377.4
40°	520.4	482.6	455.7	433.8	413.5	401.2	389.4	377.5	367.8	363.9	353.8
42.5°	487.3	456.6	429.7	405.6	392.1	379.1	364.1	355.4	345.3	339.0	332.7
45°	441.7	414.5	391.6	371.8	356.9	343.3	333.6	319.1	313.4	300.6	295.3
47.5°	401.7	376.3	354.5	335.7	321.1	312.2	298.1	286.7	277.6	269.8	263.0
50°	373.2	352.1	331.0	314.3	301.1	288.3	273.8	268.1	254.0	250.0	246.2
52.5°	347.2	327.1	307.7	291.4	278.2	265.8	253.0	245.6	236.1	232.1	229.3
55°	310.7	291.4	272.9	258.4	245.2	232.5	224.5	215.3	210.9	207.8	204.4
57.5°	274.1	256.8	242.6	227.9	214.6	204.6	195.4	189.9	185.3	181.2	177.0
60°	251.0	234.3	221.5	207.8	194.2	185.9	178.9	172.3	167.0	160.8	159.1
62.5°	226.4	211.7	200.1	186.8	175.0	167.3	160.6	154.4	148.0	139.1	136.6
65°	192.5	181.1	168.8	157.8	147.2	139.7	130.1	123.0	120.5	119.5	119.1
67.5°	162.0	151.1	140.5	129.3	119.7	112.8	107.9	106.8	105.0	104.4	103.2
70°	141.5	131.4	120.9	110.3	101.1	99.8	98.0	96.3	94.0	93.2	92.3
72.5°	123.2	112.8	102.2	93.8	89.8	88.2	86.4	84.6	83.2	82.3	81.7
75°	94.5	84.8	77.8	74.7	72.5	71.2	68.5	67.2	66.4	65.0	64.6
77.5°	68.0	62.6	59.3	57.4	55.1	53.7	52.2	50.9	49.9	49.7	49.0
80°	51.8	49.2	47.0	44.4	43.5	41.8	41.3	40.0	40.5	39.1	39.1
82.5°	40.3	36.9	35.0	33.8	33.0	31.6	31.1	30.5	30.6	29.6	29.6
85°	20.7	19.8	18.9	18.0	18.0	16.7	17.1	16.7	16.7	15.8	15.4
87.5°	9.3	9.5	9.2	9.6	10.1	10.2	10.4	10.3	10.7	10.9	10.8
90°	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2	28.6	30.0	30.9
92.5°	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8	30.6	31.3	31.8
95°	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5	51.8	53.2	53.7
97.5°	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1	67.2	68.3	69.0
100°	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1	76.4	78.5	79.9
102.5°	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4	80.2	83.1	84.9
105°	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7	83.7	86.7	88.7
107.5°	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5	95.4	92.4	91.4
110°	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9	132.7	105.5	92.4



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0	242.7	143.4	94.2
115°	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6	377.5	251.6	178.7
117.5°	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9	745.5	715.0	667.5
120°	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1	907.4	910.7	893.9
122.5°	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3	961.3	963.2	960.6
125°	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5	1040.4	1042.3	1043.7
127.5°	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8	1114.6	1117.3	1118.9
130°	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3	1161.3	1164.2	1165.6
132.5°	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4	1206.0	1208.6	1209.7
135°	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9	1270.7	1273.4	1274.5
137.5°	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8	1330.5	1333.2	1334.0
140°	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6	1369.1	1371.5	1372.0
142.5°	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4	1404.6	1406.9	1407.3
145°	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4	1454.3	1456.3	1456.6
147.5°	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1	1497.5	1498.9	1499.0
150°	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9	1524.6	1526.2	1526.3
152.5°	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4	1549.0	1550.7	1550.6
155°	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5	1582.1	1583.7	1583.5
157.5°	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3	1610.2	1612.1	1611.9
160°	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5	1626.2	1627.8	1627.7
162.5°	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7	1641.6	1643.4	1643.1
165°	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0
167.5°	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6	1675.5	1677.4	1677.1
170°	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4	1683.3	1685.2	1685.0
172.5°	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3	1689.2	1691.1	1690.8
175°	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7	1695.6	1697.5	1697.1
177.5°	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4	1695.9	1697.5	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1214.6	1215.3	1214.3	1215.0	1214.3	1215.3	1214.6	1218.5	1219.2	1219.9	1219.2
5°	1131.7	1126.4	1125.6	1124.2	1125.6	1126.4	1131.7	1133.9	1135.7	1139.2	1145.3
7.5°	1032.8	1031.9	1029.8	1026.7	1029.8	1031.9	1032.8	1040.3	1046.3	1053.1	1065.7
10°	969.1	966.9	966.5	963.4	966.5	966.9	969.1	978.8	985.8	995.5	1012.6
12.5°	894.6	880.4	878.9	871.2	878.9	880.4	894.6	907.1	926.0	935.3	953.6
15°	761.6	759.1	750.2	744.5	750.2	759.1	761.6	772.2	779.2	804.7	834.1
17.5°	685.7	677.1	674.3	673.1	674.3	677.1	685.7	690.8	700.9	714.3	732.0
20°	636.8	629.0	627.6	626.7	627.6	629.0	636.8	643.0	650.9	665.4	683.9
22.5°	603.0	594.8	591.4	588.8	591.4	594.8	603.0	607.9	615.0	626.4	638.9
25°	545.4	542.3	540.6	539.7	540.6	542.3	545.4	549.8	556.8	572.2	585.4
27.5°	500.3	493.5	492.2	490.0	492.2	493.5	500.3	508.2	515.5	522.4	534.2
30°	474.7	472.4	469.4	466.7	469.4	472.4	474.7	478.6	483.5	495.3	506.8
32.5°	444.4	442.6	439.9	438.6	439.9	442.6	444.4	449.8	459.9	467.2	475.4
35°	411.0	404.8	402.2	398.2	402.2	404.8	411.0	415.3	419.3	425.4	440.4
37.5°	375.5	372.3	368.6	369.9	368.6	372.3	375.5	377.4	385.7	394.3	400.7
40°	348.1	345.9	345.0	344.6	345.0	345.9	348.1	353.8	363.9	367.8	377.5
42.5°	326.3	320.2	318.0	317.9	318.0	320.2	326.3	332.7	339.0	345.3	355.4
45°	293.2	287.4	283.4	284.0	283.4	287.4	293.2	295.3	300.6	313.4	319.1
47.5°	259.2	259.1	256.6	257.4	256.6	259.1	259.2	263.0	269.8	277.6	286.7
50°	243.1	240.4	238.7	239.1	238.7	240.4	243.1	246.2	250.0	254.0	268.1
52.5°	227.6	225.3	223.9	225.8	223.9	225.3	227.6	229.3	232.1	236.1	245.6
55°	202.2	199.5	199.1	198.6	199.1	199.5	202.2	204.4	207.8	210.9	215.3
57.5°	173.7	172.0	169.4	168.2	169.4	172.0	173.7	177.0	181.2	185.3	189.9
60°	153.3	149.9	145.5	145.0	145.5	149.9	153.3	159.1	160.8	167.0	172.3
62.5°	134.7	134.1	133.2	133.1	133.2	134.1	134.7	136.6	139.1	148.0	154.4
65°	118.2	117.8	118.2	118.6	118.2	117.8	118.2	119.1	119.5	120.5	123.0
67.5°	103.1	102.2	101.4	101.8	101.4	102.2	103.1	103.2	104.4	105.0	106.8
70°	91.4	91.0	90.6	90.6	90.6	91.0	91.4	92.3	93.2	94.0	96.3
72.5°	80.2	80.1	79.6	79.3	79.6	80.1	80.2	81.7	82.3	83.2	84.6
75°	64.1	63.3	63.3	63.3	63.3	63.3	64.1	64.6	65.0	66.4	67.2
77.5°	48.9	48.5	48.0	47.6	48.0	48.5	48.9	49.0	49.7	49.9	50.9
80°	38.7	38.2	37.8	37.8	37.8	38.2	38.7	39.1	39.1	40.5	40.0
82.5°	29.5	29.1	29.0	28.7	29.0	29.1	29.5	29.6	29.6	30.6	30.5
85°	15.8	16.3	15.8	16.7	15.8	16.3	15.8	15.4	15.8	16.7	16.7
87.5°	10.8	10.6	11.1	10.8	11.1	10.6	10.8	10.8	10.9	10.7	10.3
90°	31.4	31.9	32.5	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2
92.5°	32.1	32.4	32.7	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8
95°	53.5	53.2	53.0	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5
97.5°	69.3	69.7	70.0	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1
100°	80.4	80.9	81.5	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1
102.5°	85.7	86.4	87.1	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4
105°	89.8	90.9	92.0	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7
107.5°	92.5	93.6	94.7	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5
110°	93.5	94.5	95.7	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.1	96.0	96.9	97.7	96.9	96.0	95.1	94.2	143.4	242.7	342.0
115°	159.2	139.6	120.0	100.4	120.0	139.6	159.2	178.7	251.6	377.5	503.6
117.5°	603.1	538.7	474.3	410.0	474.3	538.7	603.1	667.5	715.0	745.5	775.9
120°	857.2	820.4	783.7	747.0	783.7	820.4	857.2	893.9	910.7	907.4	904.1
122.5°	953.5	946.4	939.3	932.1	939.3	946.4	953.5	960.6	963.2	961.3	959.3
125°	1044.6	1045.3	1046.2	1047.0	1046.2	1045.3	1044.6	1043.7	1042.3	1040.4	1038.5
127.5°	1119.0	1119.1	1119.3	1119.5	1119.3	1119.1	1119.0	1118.9	1117.3	1114.6	1111.8
130°	1165.4	1165.1	1164.8	1164.5	1164.8	1165.1	1165.4	1165.6	1164.2	1161.3	1158.3
132.5°	1209.4	1209.2	1208.9	1208.6	1208.9	1209.2	1209.4	1209.7	1208.6	1206.0	1203.4
135°	1273.9	1273.4	1272.8	1272.3	1272.8	1273.4	1273.9	1274.5	1273.4	1270.7	1267.9
137.5°	1333.1	1332.2	1331.3	1330.3	1331.3	1332.2	1333.1	1334.0	1333.2	1330.5	1327.8
140°	1370.7	1369.3	1368.0	1366.6	1368.0	1369.3	1370.7	1372.0	1371.5	1369.1	1366.6
142.5°	1405.9	1404.5	1403.3	1401.9	1403.3	1404.5	1405.9	1407.3	1406.9	1404.6	1402.4
145°	1455.2	1453.8	1452.4	1451.1	1452.4	1453.8	1455.2	1456.6	1456.3	1454.3	1452.4
147.5°	1497.9	1496.8	1495.6	1494.4	1495.6	1496.8	1497.9	1499.0	1498.9	1497.5	1496.1
150°	1525.0	1523.6	1522.2	1520.9	1522.2	1523.6	1525.0	1526.3	1526.2	1524.6	1522.9
152.5°	1548.8	1547.0	1545.2	1543.4	1545.2	1547.0	1548.8	1550.6	1550.7	1549.0	1547.4
155°	1581.3	1579.2	1576.9	1574.8	1576.9	1579.2	1581.3	1583.5	1583.7	1582.1	1580.5
157.5°	1609.8	1607.7	1605.5	1603.4	1605.5	1607.7	1609.8	1611.9	1612.1	1610.2	1608.3
160°	1625.8	1623.8	1622.0	1620.1	1622.0	1623.8	1625.8	1627.7	1627.8	1626.2	1624.5
162.5°	1640.8	1638.5	1636.2	1633.8	1636.2	1638.5	1640.8	1643.1	1643.4	1641.6	1639.7
165°	1660.1	1658.2	1656.3	1654.3	1656.3	1658.2	1660.1	1662.0	1662.0	1660.1	1658.2
167.5°	1674.7	1672.2	1669.8	1667.3	1669.8	1672.2	1674.7	1677.1	1677.4	1675.5	1673.6
170°	1682.6	1680.1	1677.7	1675.2	1677.7	1680.1	1682.6	1685.0	1685.2	1683.3	1681.4
172.5°	1688.4	1685.9	1683.5	1681.0	1683.5	1685.9	1688.4	1690.8	1691.1	1689.2	1687.3
175°	1694.4	1691.6	1688.9	1686.2	1688.9	1691.6	1694.4	1697.1	1697.5	1695.6	1693.7
177.5°	1695.2	1693.3	1691.3	1689.4	1691.3	1693.3	1695.2	1697.2	1697.5	1695.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1216.3	1221.2	1228.6	1232.9	1239.9	1244.5	1247.0	1251.5	1254.0	1262.7	1272.0
5°	1148.4	1155.5	1167.8	1179.1	1191.5	1204.2	1213.5	1224.0	1233.6	1250.3	1268.0
7.5°	1070.6	1080.3	1099.3	1117.6	1139.0	1157.0	1172.9	1190.9	1207.0	1231.0	1255.9
10°	1012.2	1029.3	1054.4	1071.5	1099.7	1117.7	1142.7	1162.4	1184.9	1216.5	1244.7
12.5°	961.9	982.6	1002.6	1026.5	1051.8	1081.8	1109.3	1134.7	1161.3	1194.0	1227.1
15°	870.6	900.5	931.8	955.9	990.2	1021.8	1054.0	1088.2	1120.8	1159.9	1202.9
17.5°	753.2	787.8	840.3	881.8	922.0	953.7	993.4	1034.9	1073.2	1120.4	1168.4
20°	700.2	725.7	761.2	817.0	877.7	911.5	951.9	997.6	1041.6	1093.0	1144.4
22.5°	657.5	680.3	708.9	752.3	820.0	866.2	908.4	954.8	1005.7	1058.3	1115.3
25°	596.8	612.7	642.6	677.7	724.3	800.3	846.4	893.0	948.5	1004.7	1069.7
27.5°	551.2	565.4	584.9	618.5	653.1	707.7	781.1	831.9	887.1	950.4	1017.9
30°	516.4	533.1	554.7	578.4	616.2	658.8	732.2	791.1	845.6	910.7	982.7
32.5°	491.1	504.3	522.6	546.7	578.2	619.1	677.7	749.2	802.4	870.9	946.2
35°	449.6	465.0	479.9	502.8	528.3	565.7	610.0	686.5	739.3	806.9	882.5
37.5°	415.4	424.8	441.3	459.4	486.4	514.2	552.7	621.3	678.3	744.8	822.2
40°	389.4	401.2	413.5	433.8	455.7	482.6	520.4	571.4	636.8	701.9	777.5
42.5°	364.1	379.1	392.1	405.6	429.7	456.6	487.3	530.5	597.4	659.0	732.5
45°	333.6	343.3	356.9	371.8	391.6	414.5	441.7	479.5	543.6	596.8	665.8
47.5°	298.1	312.2	321.1	335.7	354.5	376.3	401.7	434.3	486.3	536.1	600.1
50°	273.8	288.3	301.1	314.3	331.0	352.1	373.2	404.8	446.5	498.9	558.6
52.5°	253.0	265.8	278.2	291.4	307.7	327.1	347.2	374.9	410.7	458.7	516.8
55°	224.5	232.5	245.2	258.4	272.9	291.4	310.7	334.0	364.8	405.2	452.3
57.5°	195.4	204.6	214.6	227.9	242.6	256.8	274.1	295.2	319.5	356.1	396.3
60°	178.9	185.9	194.2	207.8	221.5	234.3	251.0	268.5	291.4	323.0	357.3
62.5°	160.6	167.3	175.0	186.8	200.1	211.7	226.4	245.0	264.3	293.2	323.2
65°	130.1	139.7	147.2	157.8	168.8	181.1	192.5	207.4	224.5	247.5	274.2
67.5°	107.9	112.8	119.7	129.3	140.5	151.1	162.0	173.6	188.5	206.1	227.4
70°	98.0	99.8	101.1	110.3	120.9	131.4	141.5	152.5	165.2	179.8	198.2
72.5°	86.4	88.2	89.8	93.8	102.2	112.8	123.2	131.4	143.4	155.5	170.5
75°	68.5	71.2	72.5	74.7	77.8	84.8	94.5	102.4	109.4	118.6	130.5
77.5°	52.2	53.7	55.1	57.4	59.3	62.6	68.0	75.2	81.7	87.1	95.3
80°	41.3	41.8	43.5	44.4	47.0	49.2	51.8	57.6	64.1	66.4	72.1
82.5°	31.1	31.6	33.0	33.8	35.0	36.9	40.3	41.8	46.9	49.9	53.5
85°	17.1	16.7	18.0	18.0	18.9	19.8	20.7	22.8	24.2	27.7	28.6
87.5°	10.4	10.2	10.1	9.6	9.2	9.5	9.3	9.0	9.2	9.6	10.4
90°	25.8	24.5	22.3	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7
95°	49.1	47.8	45.9	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6
97.5°	65.0	63.9	59.5	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0
100°	72.0	69.8	65.2	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7
102.5°	74.6	71.7	110.5	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4
105°	77.7	74.7	149.0	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3
107.5°	101.5	104.6	193.6	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9
110°	187.1	214.3	292.9	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	441.3	540.5	559.9	579.4	598.8	618.2	625.4	620.4	615.3	610.2	605.2
115°	629.6	755.5	748.7	741.9	735.1	728.3	722.6	718.0	713.3	708.8	704.1
117.5°	806.4	836.9	832.2	827.5	822.8	818.1	813.2	808.0	802.9	797.7	792.6
120°	900.9	897.6	892.7	887.8	882.9	878.0	873.5	869.4	865.3	861.3	857.2
122.5°	957.3	955.4	950.0	944.7	939.4	934.1	929.3	925.0	920.7	916.4	912.1
125°	1036.6	1034.7	1029.6	1024.4	1019.3	1014.1	1009.7	1006.2	1002.6	999.1	995.6
127.5°	1109.1	1106.3	1102.4	1098.5	1094.7	1090.8	1086.9	1083.0	1079.1	1075.1	1071.3
130°	1155.3	1152.3	1149.3	1146.3	1143.3	1140.3	1136.7	1132.3	1127.9	1123.6	1119.2
132.5°	1200.9	1198.3	1195.3	1192.3	1189.4	1186.4	1183.0	1179.3	1175.6	1171.9	1168.2
135°	1265.2	1262.5	1260.1	1257.6	1255.2	1252.7	1249.3	1244.9	1240.6	1236.2	1231.9
137.5°	1325.2	1322.5	1319.7	1317.0	1314.1	1311.4	1308.5	1305.4	1302.4	1299.3	1296.3
140°	1364.2	1361.7	1358.7	1355.7	1352.7	1349.7	1347.1	1345.0	1342.8	1340.6	1338.4
142.5°	1400.2	1397.9	1394.5	1391.1	1387.7	1384.2	1381.6	1379.6	1377.6	1375.6	1373.7
145°	1450.5	1448.6	1444.0	1439.4	1434.8	1430.1	1428.0	1428.2	1428.5	1428.7	1429.1
147.5°	1494.6	1493.2	1488.7	1484.1	1479.5	1474.9	1473.2	1474.2	1475.2	1476.3	1477.3
150°	1521.3	1519.7	1515.3	1511.0	1506.6	1502.3	1501.0	1503.0	1504.9	1506.8	1508.6
152.5°	1545.8	1544.1	1540.0	1535.9	1531.7	1527.6	1526.6	1528.7	1530.9	1533.0	1535.1
155°	1578.8	1577.2	1574.0	1570.7	1567.5	1564.2	1563.7	1566.2	1568.7	1571.1	1573.6
157.5°	1606.5	1604.6	1602.3	1600.1	1597.8	1595.5	1595.4	1597.5	1599.6	1601.6	1603.7
160°	1622.9	1621.3	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3
162.5°	1637.9	1636.0	1634.6	1633.1	1631.8	1630.3	1630.5	1632.1	1633.7	1635.4	1636.9
165°	1656.3	1654.3	1653.6	1652.7	1651.9	1651.1	1651.5	1653.1	1654.8	1656.4	1658.0
167.5°	1671.7	1669.8	1669.0	1668.3	1667.5	1666.7	1667.2	1668.8	1670.4	1672.1	1673.7
170°	1679.6	1677.7	1677.1	1676.5	1676.0	1675.4	1676.0	1677.7	1679.3	1680.9	1682.6
172.5°	1685.4	1683.5	1683.0	1682.4	1681.9	1681.4	1681.9	1683.5	1685.1	1686.8	1688.4
175°	1691.8	1689.9	1689.4	1688.8	1688.2	1687.7	1688.4	1690.3	1692.2	1694.1	1696.0
177.5°	1692.9	1691.3	1691.1	1690.9	1690.7	1690.5	1691.1	1692.6	1694.2	1695.7	1697.2
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



TEST NUMBER: P331821-935

CATALOG NUMBER: S122RDIW-S675D1440U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1272.3	1273.3	1280.4	1283.5	1289.9	1292.3	1295.1	1294.4	1294.4	1295.8	1305.7
5°	1275.0	1283.8	1296.9	1309.7	1322.0	1332.6	1339.6	1346.6	1349.3	1362.0	1373.5
7.5°	1270.4	1286.6	1308.4	1327.8	1351.1	1369.3	1384.4	1398.1	1407.4	1425.9	1444.9
10°	1264.5	1287.3	1311.9	1337.0	1369.1	1393.2	1417.8	1436.8	1442.9	1470.6	1486.4
12.5°	1252.5	1283.1	1314.4	1346.8	1378.2	1411.5	1438.6	1457.5	1479.1	1504.0	1533.2
15°	1234.6	1269.7	1310.6	1352.4	1397.1	1437.6	1466.6	1499.6	1523.3	1550.6	1576.1
17.5°	1208.8	1254.0	1306.1	1354.4	1406.2	1449.7	1489.5	1521.2	1537.9	1553.4	1557.2
20°	1188.4	1237.2	1298.3	1355.4	1407.3	1457.4	1496.9	1523.3	1527.7	1528.1	1504.9
22.5°	1166.2	1221.3	1285.3	1343.8	1405.8	1461.6	1492.4	1503.7	1486.2	1456.4	1411.4
25°	1125.6	1189.3	1263.6	1330.3	1398.1	1450.8	1461.4	1441.6	1380.4	1316.3	1235.0
27.5°	1081.4	1153.1	1232.7	1307.0	1379.1	1411.8	1389.0	1317.7	1207.6	1112.0	996.1
30°	1049.1	1129.5	1207.7	1290.8	1357.6	1371.7	1319.4	1214.4	1086.0	941.8	826.3
32.5°	1012.2	1096.5	1182.4	1268.3	1324.2	1310.5	1224.1	1094.8	944.3	802.6	693.4
35°	959.4	1046.5	1139.2	1225.3	1260.9	1201.6	1072.4	904.0	750.2	617.9	542.8
37.5°	898.5	993.2	1089.7	1168.8	1166.2	1067.4	891.4	717.6	588.3	510.1	456.6
40°	855.2	951.1	1055.2	1122.1	1093.5	964.7	774.0	610.0	515.6	453.1	414.0
42.5°	813.8	909.9	1013.4	1066.5	1016.8	858.5	668.5	540.0	462.1	413.4	381.7
45°	743.2	844.7	940.6	970.0	881.2	706.7	540.6	447.4	395.5	359.6	337.5
47.5°	674.2	774.0	861.5	862.0	741.9	573.1	456.0	387.2	342.9	315.0	299.0
50°	632.0	726.9	800.3	788.9	652.6	509.8	407.9	348.5	311.6	290.1	273.4
52.5°	584.5	676.7	740.2	707.7	577.0	448.7	364.6	314.8	284.2	265.4	250.6
55°	515.6	597.3	642.1	592.9	470.7	373.2	308.1	269.0	246.2	230.3	217.6
57.5°	447.7	515.2	543.4	486.1	387.7	309.4	260.6	231.3	208.6	197.3	190.6
60°	405.2	462.8	482.6	419.3	337.1	270.7	230.7	203.5	186.8	179.3	172.7
62.5°	363.3	410.4	418.6	360.6	293.9	236.9	202.6	179.6	168.5	161.4	155.2
65°	301.5	335.4	331.4	284.8	232.5	188.1	163.1	149.0	140.6	130.5	119.5
67.5°	248.2	268.9	256.4	221.5	177.5	146.2	129.8	119.2	108.8	99.3	96.7
70°	214.5	226.4	213.2	181.1	145.5	122.6	109.4	96.7	90.6	88.3	84.4
72.5°	182.1	186.2	172.0	144.5	118.4	101.5	88.7	81.5	78.3	76.4	73.9
75°	136.7	133.6	121.3	99.8	82.2	70.8	66.8	64.1	62.0	60.2	58.9
77.5°	96.0	91.5	80.5	66.5	57.3	51.7	49.4	48.0	46.9	46.1	44.8
80°	72.1	69.0	58.0	47.4	43.5	40.9	39.5	37.8	37.8	36.9	35.6
82.5°	52.8	49.3	39.7	34.8	32.6	31.0	30.0	29.0	28.7	28.8	27.9
85°	27.7	22.4	19.8	18.9	17.6	16.7	17.1	16.3	16.3	16.3	15.8
87.5°	9.3	8.1	8.4	8.6	9.5	9.9	10.0	10.4	11.2	11.1	11.8
90°	4.2	7.2	10.2	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2
92.5°	24.5	24.2	23.9	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8
95°	70.6	61.6	52.7	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5
97.5°	132.7	107.4	82.1	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1
100°	179.4	142.2	104.9	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1
102.5°	273.5	265.6	257.7	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4
105°	380.4	388.6	396.7	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7
107.5°	482.4	489.0	495.6	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5
110°	548.2	553.9	559.6	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	610.2	615.3	620.4	625.4	618.2	598.8	579.4	559.9	540.5	441.3	342.0
115°	708.8	713.3	718.0	722.6	728.3	735.1	741.9	748.7	755.5	629.6	503.6
117.5°	797.7	802.9	808.0	813.2	818.1	822.8	827.5	832.2	836.9	806.4	775.9
120°	861.3	865.3	869.4	873.5	878.0	882.9	887.8	892.7	897.6	900.9	904.1
122.5°	916.4	920.7	925.0	929.3	934.1	939.4	944.7	950.0	955.4	957.3	959.3
125°	999.1	1002.6	1006.2	1009.7	1014.1	1019.3	1024.4	1029.6	1034.7	1036.6	1038.5
127.5°	1075.1	1079.1	1083.0	1086.9	1090.8	1094.7	1098.5	1102.4	1106.3	1109.1	1111.8
130°	1123.6	1127.9	1132.3	1136.7	1140.3	1143.3	1146.3	1149.3	1152.3	1155.3	1158.3
132.5°	1171.9	1175.6	1179.3	1183.0	1186.4	1189.4	1192.3	1195.3	1198.3	1200.9	1203.4
135°	1236.2	1240.6	1244.9	1249.3	1252.7	1255.2	1257.6	1260.1	1262.5	1265.2	1267.9
137.5°	1299.3	1302.4	1305.4	1308.5	1311.4	1314.1	1317.0	1319.7	1322.5	1325.2	1327.8
140°	1340.6	1342.8	1345.0	1347.1	1349.7	1352.7	1355.7	1358.7	1361.7	1364.2	1366.6
142.5°	1375.6	1377.6	1379.6	1381.6	1384.2	1387.7	1391.1	1394.5	1397.9	1400.2	1402.4
145°	1428.7	1428.5	1428.2	1428.0	1430.1	1434.8	1439.4	1444.0	1448.6	1450.5	1452.4
147.5°	1476.3	1475.2	1474.2	1473.2	1474.9	1479.5	1484.1	1488.7	1493.2	1494.6	1496.1
150°	1506.8	1504.9	1503.0	1501.0	1502.3	1506.6	1511.0	1515.3	1519.7	1521.3	1522.9
152.5°	1533.0	1530.9	1528.7	1526.6	1527.6	1531.7	1535.9	1540.0	1544.1	1545.8	1547.4
155°	1571.1	1568.7	1566.2	1563.7	1564.2	1567.5	1570.7	1574.0	1577.2	1578.8	1580.5
157.5°	1601.6	1599.6	1597.5	1595.4	1595.5	1597.8	1600.1	1602.3	1604.6	1606.5	1608.3
160°	1619.6	1618.1	1616.4	1614.8	1614.8	1616.4	1618.1	1619.6	1621.3	1622.9	1624.5
162.5°	1635.4	1633.7	1632.1	1630.5	1630.3	1631.8	1633.1	1634.6	1636.0	1637.9	1639.7
165°	1656.4	1654.8	1653.1	1651.5	1651.1	1651.9	1652.7	1653.6	1654.3	1656.3	1658.2
167.5°	1672.1	1670.4	1668.8	1667.2	1666.7	1667.5	1668.3	1669.0	1669.8	1671.7	1673.6
170°	1680.9	1679.3	1677.7	1676.0	1675.4	1676.0	1676.5	1677.1	1677.7	1679.6	1681.4
172.5°	1686.8	1685.1	1683.5	1681.9	1681.4	1681.9	1682.4	1683.0	1683.5	1685.4	1687.3
175°	1694.1	1692.2	1690.3	1688.4	1687.7	1688.2	1688.8	1689.4	1689.9	1691.8	1693.7
177.5°	1695.7	1694.2	1692.6	1691.1	1690.5	1690.7	1690.9	1691.1	1691.3	1692.9	1694.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9
2.5°	1309.2	1313.7	1315.9	1315.9	1318.4	1317.2	1316.2
5°	1384.4	1392.8	1394.6	1402.5	1408.2	1406.4	1407.3
7.5°	1459.2	1472.7	1485.9	1492.0	1493.0	1496.5	1497.8
10°	1505.3	1516.3	1537.0	1533.9	1549.2	1558.1	1543.5
12.5°	1549.6	1564.4	1578.7	1582.7	1591.5	1594.2	1588.5
15°	1589.7	1597.6	1598.4	1596.3	1598.9	1596.7	1588.4
17.5°	1552.2	1539.4	1513.4	1501.1	1491.3	1476.9	1471.1
20°	1490.3	1452.5	1408.6	1391.0	1370.4	1329.9	1339.6
22.5°	1356.8	1313.6	1269.7	1218.4	1193.9	1155.5	1153.2
25°	1148.8	1074.6	992.8	935.7	902.3	864.1	847.4
27.5°	893.2	799.7	732.7	698.8	668.0	637.7	636.4
30°	725.1	654.9	603.0	574.0	555.1	542.3	545.0
32.5°	611.2	563.1	528.1	504.0	490.1	480.4	480.3
35°	499.7	466.7	444.4	434.2	424.1	417.1	417.5
37.5°	427.7	407.9	395.4	384.2	377.9	374.4	372.6
40°	390.7	374.4	364.8	358.2	352.9	348.1	347.2
42.5°	361.5	348.1	338.4	333.2	328.3	324.9	324.0
45°	320.8	309.9	301.1	295.3	293.2	290.1	290.1
47.5°	285.4	274.6	267.8	264.2	260.4	258.3	258.2
50°	261.5	253.1	247.0	244.8	241.7	240.4	240.0
52.5°	240.0	233.8	229.5	227.9	226.6	224.9	225.2
55°	210.9	207.4	205.7	204.4	202.2	199.5	201.3
57.5°	186.4	183.5	178.7	174.6	172.5	170.7	171.4
60°	169.2	163.1	156.9	152.1	150.8	146.8	146.8
62.5°	147.4	138.8	131.2	128.5	127.2	125.4	125.0
65°	113.4	109.9	108.1	106.3	105.5	105.5	104.6
67.5°	93.9	92.6	90.7	90.1	89.3	89.0	88.8
70°	83.1	81.3	80.4	80.0	79.1	79.6	78.3
72.5°	72.5	71.1	70.9	69.8	69.2	69.3	68.4
75°	57.2	57.2	56.7	56.2	55.4	54.9	55.4
77.5°	43.9	44.0	43.2	43.1	43.0	43.1	42.7
80°	35.1	35.6	35.1	34.7	34.3	34.7	34.3
82.5°	27.8	27.1	27.0	26.9	26.9	26.6	26.5
85°	15.8	16.3	15.8	15.4	15.4	15.4	15.8
87.5°	11.7	12.0	12.1	12.2	12.4	12.5	12.2
90°	28.6	30.0	30.9	31.4	31.9	32.5	33.1
92.5°	30.6	31.3	31.8	32.1	32.4	32.7	33.1
95°	51.8	53.2	53.7	53.5	53.2	53.0	52.7
97.5°	67.2	68.3	69.0	69.3	69.7	70.0	70.3
100°	76.4	78.5	79.9	80.4	80.9	81.5	82.1
102.5°	80.2	83.1	84.9	85.7	86.4	87.1	87.9
105°	83.7	86.7	88.7	89.8	90.9	92.0	93.1
107.5°	95.4	92.4	91.4	92.5	93.6	94.7	95.7
110°	132.7	105.5	92.4	93.5	94.5	95.7	96.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.7	143.4	94.2	95.1	96.0	96.9	97.7
115°	377.5	251.6	178.7	159.2	139.6	120.0	100.4
117.5°	745.5	715.0	667.5	603.1	538.7	474.3	410.0
120°	907.4	910.7	893.9	857.2	820.4	783.7	747.0
122.5°	961.3	963.2	960.6	953.5	946.4	939.3	932.1
125°	1040.4	1042.3	1043.7	1044.6	1045.3	1046.2	1047.0
127.5°	1114.6	1117.3	1118.9	1119.0	1119.1	1119.3	1119.5
130°	1161.3	1164.2	1165.6	1165.4	1165.1	1164.8	1164.5
132.5°	1206.0	1208.6	1209.7	1209.4	1209.2	1208.9	1208.6
135°	1270.7	1273.4	1274.5	1273.9	1273.4	1272.8	1272.3
137.5°	1330.5	1333.2	1334.0	1333.1	1332.2	1331.3	1330.3
140°	1369.1	1371.5	1372.0	1370.7	1369.3	1368.0	1366.6
142.5°	1404.6	1406.9	1407.3	1405.9	1404.5	1403.3	1401.9
145°	1454.3	1456.3	1456.6	1455.2	1453.8	1452.4	1451.1
147.5°	1497.5	1498.9	1499.0	1497.9	1496.8	1495.6	1494.4
150°	1524.6	1526.2	1526.3	1525.0	1523.6	1522.2	1520.9
152.5°	1549.0	1550.7	1550.6	1548.8	1547.0	1545.2	1543.4
155°	1582.1	1583.7	1583.5	1581.3	1579.2	1576.9	1574.8
157.5°	1610.2	1612.1	1611.9	1609.8	1607.7	1605.5	1603.4
160°	1626.2	1627.8	1627.7	1625.8	1623.8	1622.0	1620.1
162.5°	1641.6	1643.4	1643.1	1640.8	1638.5	1636.2	1633.8
165°	1660.1	1662.0	1662.0	1660.1	1658.2	1656.3	1654.3
167.5°	1675.5	1677.4	1677.1	1674.7	1672.2	1669.8	1667.3
170°	1683.3	1685.2	1685.0	1682.6	1680.1	1677.7	1675.2
172.5°	1689.2	1691.1	1690.8	1688.4	1685.9	1683.5	1681.0
175°	1695.6	1697.5	1697.1	1694.4	1691.6	1688.9	1686.2
177.5°	1695.9	1697.5	1697.2	1695.2	1693.3	1691.3	1689.4
180°	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3	1692.3

(END OF REPORT)