

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: P331821-940

Luminaire Tested: **S122RDIW-S675D1440U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331821-940
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-S675D1440U940-4F0-1E-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: 7404.6 lumens
Efficiency: N/A
Efficacy: 108.7 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

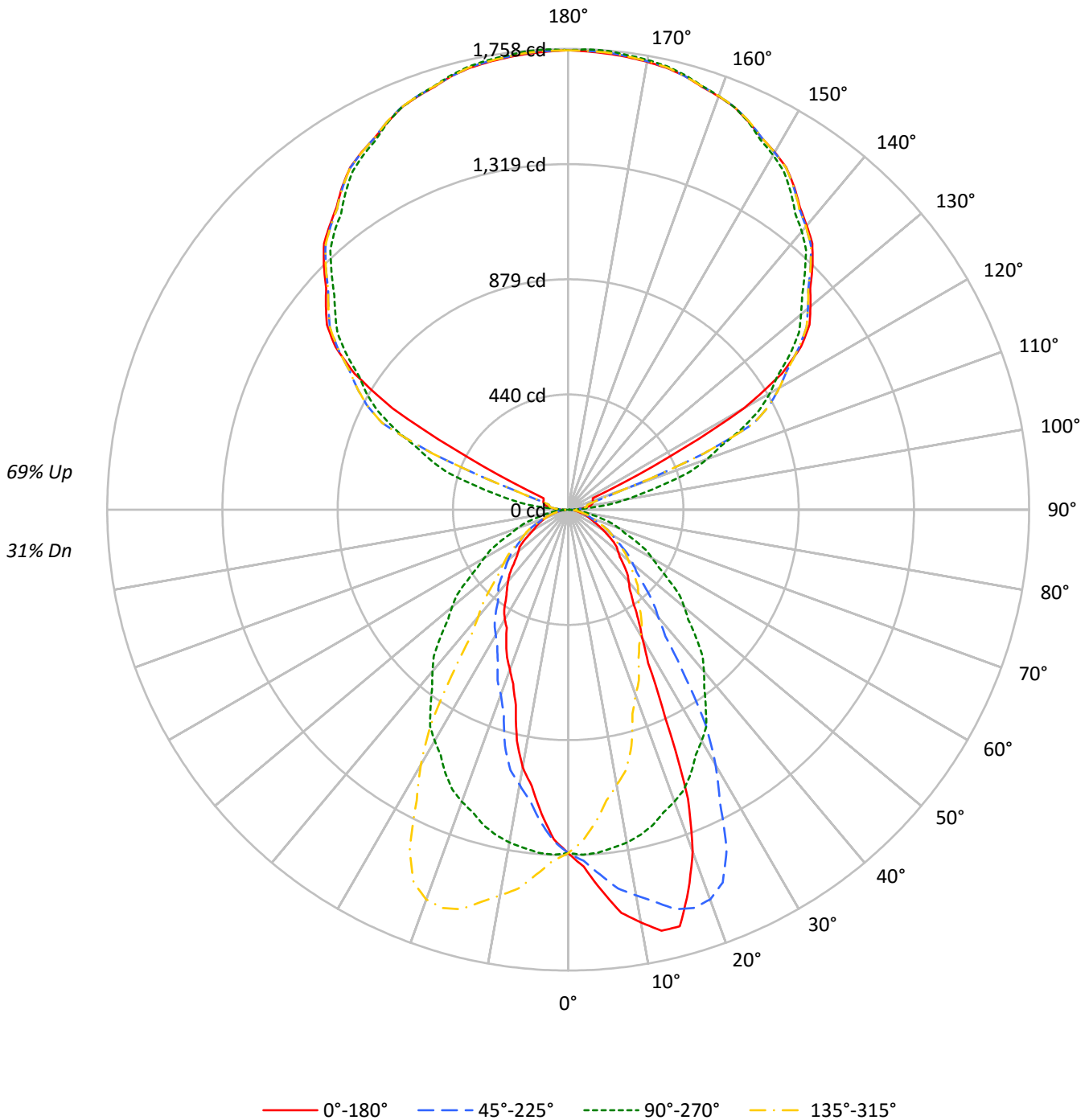
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21151	21151	21151	21151
5°	23622	21284	18870	21284
10°	26209	21135	16357	21135
15°	27497	20824	12889	20824
20°	23838	20366	11153	20366
25°	15634	19737	9957	19737
30°	10524	18975	9012	18975
35°	8523	18015	8129	18015
40°	7579	16971	7522	16971
45°	6859	15746	6715	15746
50°	6242	14531	6219	14531
55°	5869	13185	5790	13185
60°	4908	11951	4850	11951
65°	4138	10850	4695	10850
70°	3829	9692	4428	9692
75°	3575	8434	4086	8434
80°	3301	6936	3636	6936
85°	3038	5483	3205	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.7
10°-20°	346.0	4.7
20°-30°	445.9	6.0
30°-40°	423.7	5.7
40°-50°	363.0	4.9
50°-60°	276.4	3.7
60°-70°	174.7	2.4
70°-80°	87.3	1.2
80°-90°	27.0	0.4
90°-100°	58.5	0.8
100°-110°	214.4	2.9
110°-120°	573.1	7.7
120°-130°	946.0	12.8
130°-140°	1006.1	13.6
140°-150°	935.1	12.6
150°-160°	751.8	10.2
160°-170°	484.5	6.5
170°-180°	166.8	2.3
0°-30°	916.1	12.4
0°-40°	1339.8	18.1
0°-60°	1979.2	26.7
0°-90°	2268.3	30.6
90°-120°	846.0	11.4
90°-150°	3733.2	50.4
90°-180°	5136.0	69.4
0°-180°	7404.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1310	1310	1310	1310	1310	
5°	1458	1313	1164	1313	1458	144
15°	1645	1246	771	1246	1645	444
25°	878	1108	559	1108	878	416
35°	432	914	412	914	432	277
45°	300	690	294	690	300	232
55°	208	468	206	468	208	183
65°	108	284	123	284	108	110
75°	57	135	66	135	57	61
85°	16	30	17	30	16	18
90°	34	1	34	1	34	16
95°	55	82	55	82	55	51
105°	96	386	96	386	96	100
115°	104	729	104	729	104	260
125°	1084	1031	1084	1031	1084	938
135°	1318	1276	1318	1276	1318	1016
145°	1503	1480	1503	1480	1503	940
155°	1631	1630	1631	1630	1631	753
165°	1713	1717	1713	1717	1713	484
175°	1746	1756	1746	1756	1746	166
180°	1753	1753	1753	1753	1753	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1363.2	1364.2	1365.4	1362.8	1362.8	1360.6	1355.8	1352.3	1342.0	1340.6	1340.6
5°	1457.5	1456.5	1458.4	1452.5	1444.3	1442.4	1433.8	1422.5	1410.6	1397.4	1394.6
7.5°	1551.2	1549.9	1546.2	1545.2	1538.9	1525.2	1511.3	1496.5	1476.8	1457.6	1448.0
10°	1598.6	1613.6	1604.5	1588.6	1591.8	1570.4	1559.0	1539.4	1523.0	1494.3	1488.0
12.5°	1645.2	1651.1	1648.2	1639.1	1635.0	1620.2	1604.9	1587.9	1557.6	1531.9	1509.5
15°	1645.0	1653.7	1655.9	1653.2	1655.5	1654.6	1646.4	1632.3	1605.9	1577.6	1553.1
17.5°	1523.6	1529.6	1544.5	1554.6	1567.4	1594.3	1607.6	1612.7	1608.8	1592.8	1575.5
20°	1387.4	1377.3	1419.2	1440.6	1458.8	1504.3	1543.5	1558.5	1582.6	1582.2	1577.6
22.5°	1194.4	1196.8	1236.4	1261.9	1315.0	1360.5	1405.2	1461.7	1508.3	1539.2	1557.3
25°	877.6	894.9	934.5	969.1	1028.2	1112.9	1189.8	1279.1	1363.2	1429.7	1493.0
27.5°	659.1	660.4	691.8	723.7	758.8	828.2	925.1	1031.6	1151.6	1250.7	1364.7
30°	564.5	561.7	574.9	594.5	624.5	678.2	751.0	855.8	975.4	1124.7	1257.7
32.5°	497.4	497.6	507.6	522.0	547.0	583.2	633.0	718.1	831.3	978.0	1133.8
35°	432.4	431.9	439.3	449.7	460.2	483.4	517.5	562.1	640.0	776.9	936.3
37.5°	385.8	387.8	391.4	397.9	409.5	422.4	442.9	472.9	528.2	609.3	743.2
40°	359.6	360.5	365.5	371.0	377.8	387.8	404.7	428.7	469.3	534.0	631.8
42.5°	335.6	336.4	340.0	345.1	350.4	360.5	374.4	395.3	428.1	478.6	559.3
45°	300.4	300.4	303.6	305.9	311.8	320.9	332.3	349.6	372.4	409.7	463.3
47.5°	267.4	267.5	269.7	273.6	277.3	284.4	295.6	309.7	326.3	355.2	401.0
50°	248.5	249.0	250.3	253.5	255.8	262.2	270.8	283.1	300.4	322.7	361.0
52.5°	233.3	232.9	234.7	236.0	237.6	242.2	248.6	259.5	274.9	294.4	326.0
55°	208.5	206.6	209.4	211.7	213.0	214.8	218.5	225.3	238.5	254.9	278.6
57.5°	177.5	176.8	178.7	180.8	185.1	190.0	193.1	197.4	204.3	216.1	239.5
60°	152.0	152.0	156.1	157.5	162.5	168.9	175.2	178.9	185.7	193.4	210.7
62.5°	129.5	129.8	131.7	133.1	135.9	143.7	152.7	160.7	167.1	174.5	186.0
65°	108.3	109.2	109.2	110.1	112.0	113.8	117.4	123.8	135.2	145.6	154.3
67.5°	91.9	92.2	92.5	93.4	93.9	95.9	97.3	100.1	102.8	112.7	123.4
70°	81.1	82.4	81.9	82.8	83.3	84.2	86.1	87.4	91.5	93.8	100.1
72.5°	70.8	71.8	71.7	72.3	73.5	73.7	75.1	76.5	79.1	81.1	84.4
75°	57.3	56.9	57.3	58.2	58.7	59.2	59.2	61.0	62.3	64.2	66.4
77.5°	44.2	44.7	44.6	44.7	44.8	45.6	45.5	46.4	47.7	48.6	49.7
80°	35.5	35.9	35.5	35.9	36.4	36.8	36.4	36.8	38.3	39.1	39.1
82.5°	27.5	27.6	27.8	27.9	28.0	28.1	28.8	28.9	29.9	29.7	30.1
85°	16.4	16.0	16.0	16.0	16.4	16.9	16.4	16.4	16.9	16.9	16.9
87.5°	12.7	12.9	12.8	12.7	12.6	12.4	12.1	12.2	11.5	11.6	10.8
90°	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2	26.8	25.3	23.1
92.5°	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9	30.1	29.4	28.3
95°	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3	50.8	49.5	47.5
97.5°	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5	67.3	66.2	61.6
100°	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8	74.5	72.3	67.5
102.5°	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2	77.2	74.3	114.4
105°	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6	80.4	77.4	154.3
107.5°	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0	105.1	108.3	200.5
110°	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6	193.8	221.9	303.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2	457.0	559.8	579.9
115°	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6	652.0	782.5	775.4
117.5°	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6	835.2	866.7	861.8
120°	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4	933.0	929.6	924.5
122.5°	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5	991.5	989.4	983.9
125°	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6	1073.6	1071.7	1066.3
127.5°	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5	1148.6	1145.8	1141.7
130°	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6	1196.5	1193.4	1190.3
132.5°	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3	1243.8	1241.1	1238.0
135°	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1	1310.4	1307.5	1305.0
137.5°	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2	1372.4	1369.7	1366.8
140°	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3	1412.8	1410.2	1407.2
142.5°	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4	1450.1	1447.8	1444.2
145°	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2	1502.3	1500.3	1495.5
147.5°	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4	1547.9	1546.5	1541.8
150°	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3	1575.6	1573.9	1569.3
152.5°	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6	1600.9	1599.2	1594.9
155°	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8	1635.1	1633.4	1630.1
157.5°	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7	1663.8	1661.9	1659.5
160°	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5	1680.8	1679.1	1677.4
162.5°	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2	1696.3	1694.3	1692.9
165°	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3	1712.5
167.5°	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3	1731.3	1729.4	1728.6
170°	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4	1739.5	1737.5	1736.9
172.5°	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5	1745.5	1743.6	1743.0
175°	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1	1752.1	1750.2	1749.6
177.5°	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8	1753.3	1751.7	1751.4
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1341.3	1338.4	1335.9	1329.3	1326.1	1318.8	1317.7	1317.3	1307.8	1298.7	1296.2
5°	1387.4	1380.1	1369.1	1356.4	1343.2	1329.5	1320.4	1313.2	1294.9	1277.6	1267.7
7.5°	1433.8	1418.2	1399.3	1375.2	1355.0	1332.5	1315.7	1300.7	1274.9	1250.1	1233.4
10°	1468.4	1442.9	1417.9	1384.6	1358.7	1333.2	1309.6	1289.1	1259.9	1227.2	1203.9
12.5°	1489.9	1461.9	1427.4	1394.8	1361.3	1328.8	1297.2	1270.9	1236.6	1202.7	1175.2
15°	1518.9	1488.9	1447.0	1400.6	1357.4	1315.0	1278.6	1245.8	1201.2	1160.7	1127.0
17.5°	1542.7	1501.4	1456.3	1402.7	1352.6	1298.8	1251.9	1210.1	1160.4	1111.5	1071.8
20°	1550.3	1509.4	1457.5	1403.7	1344.6	1281.3	1230.8	1185.3	1132.0	1078.8	1033.2
22.5°	1545.6	1513.8	1456.0	1391.8	1331.1	1264.9	1207.8	1155.0	1096.0	1041.6	988.8
25°	1513.5	1502.5	1448.0	1377.8	1308.7	1231.7	1165.7	1107.9	1040.5	982.3	924.9
27.5°	1438.5	1462.1	1428.3	1353.6	1276.7	1194.2	1120.0	1054.2	984.3	918.7	861.6
30°	1366.5	1420.6	1406.0	1336.9	1250.8	1169.8	1086.5	1017.8	943.2	875.7	819.3
32.5°	1267.7	1357.3	1371.5	1313.6	1224.6	1135.6	1048.3	979.9	902.0	831.0	776.0
35°	1110.6	1244.5	1305.9	1269.0	1179.8	1083.8	993.6	914.0	835.7	765.6	711.0
37.5°	923.2	1105.5	1207.8	1210.5	1128.5	1028.7	930.6	851.5	771.3	702.5	643.5
40°	801.6	999.1	1132.5	1162.1	1092.9	985.0	885.7	805.2	726.9	659.5	591.7
42.5°	692.3	889.1	1053.1	1104.6	1049.5	942.4	842.8	758.6	682.5	618.8	549.5
45°	559.9	731.9	912.7	1004.6	974.1	874.9	769.7	689.6	618.1	563.0	496.6
47.5°	472.3	593.5	768.4	892.8	892.2	801.6	698.2	621.5	555.3	503.6	449.8
50°	422.4	528.0	675.9	817.1	828.8	752.9	654.5	578.5	516.7	462.4	419.2
52.5°	377.6	464.7	597.6	732.9	766.6	700.8	605.4	535.2	475.1	425.3	388.3
55°	319.1	386.5	487.5	614.0	665.0	618.6	534.0	468.4	419.6	377.8	345.9
57.5°	269.9	320.5	401.5	503.5	562.8	533.6	463.7	410.5	368.8	330.9	305.8
60°	239.0	280.4	349.1	434.3	499.8	479.3	419.6	370.1	334.6	301.8	278.1
62.5°	209.8	245.4	304.3	373.4	433.5	425.1	376.3	334.7	303.6	273.8	253.7
65°	168.9	194.8	240.8	295.0	343.2	347.3	312.3	284.0	256.3	232.6	214.8
67.5°	134.5	151.4	183.8	229.4	265.6	278.5	257.1	235.5	213.5	195.2	179.8
70°	113.3	127.0	150.7	187.5	220.8	234.4	222.1	205.3	186.2	171.1	157.9
72.5°	91.8	105.1	122.6	149.6	178.2	192.9	188.6	176.6	161.0	148.6	136.1
75°	69.2	73.3	85.2	103.3	125.6	138.4	141.6	135.2	122.9	113.3	106.0
77.5°	51.2	53.6	59.3	68.8	83.4	94.8	99.4	98.7	90.2	84.6	77.8
80°	40.9	42.4	45.0	49.1	60.1	71.4	74.6	74.6	68.8	66.4	59.7
82.5°	31.1	32.1	33.8	36.0	41.1	51.1	54.7	55.4	51.6	48.6	43.2
85°	17.7	17.3	18.2	19.5	20.5	23.2	28.7	29.6	28.7	25.1	23.6
87.5°	10.3	10.3	9.8	8.9	8.6	8.4	9.6	10.8	10.0	9.5	9.4
90°	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2	4.4	7.5	10.6
92.5°	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6	25.3	25.1	24.8
95°	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4	73.1	63.8	54.6
97.5°	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6	137.4	111.2	85.0
100°	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4	185.8	147.2	108.6
102.5°	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4	283.3	275.1	266.9
105°	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6	394.0	402.4	410.9
107.5°	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8	499.6	506.5	513.3
110°	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9	567.8	573.6	579.6



TEST NUMBER: P331821-940

CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8	632.0	637.2	642.5
115°	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2	734.1	738.8	743.6
117.5°	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8	826.2	831.5	836.9
120°	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8	892.0	896.2	900.4
122.5°	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6	949.0	953.5	958.0
125°	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1	1034.7	1038.4	1042.1
127.5°	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5	1113.5	1117.6	1121.6
130°	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1	1163.7	1168.1	1172.7
132.5°	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9	1213.7	1217.5	1221.4
135°	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9	1280.3	1284.9	1289.3
137.5°	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6	1345.7	1348.9	1352.0
140°	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2	1388.4	1390.7	1392.9
142.5°	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7	1424.7	1426.7	1428.8
145°	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1	1479.7	1479.4	1479.2
147.5°	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0	1528.9	1527.9	1526.8
150°	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5	1560.5	1558.5	1556.6
152.5°	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8	1587.7	1585.5	1583.2
155°	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7	1627.1	1624.6	1622.0
157.5°	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9	1658.8	1656.6	1654.5
160°	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1677.4	1675.8	1674.1
162.5°	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3	1693.7	1692.0	1690.3
165°	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2	1715.5	1713.8	1712.1
167.5°	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4	1731.7	1730.0	1728.3
170°	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6	1740.9	1739.2	1737.5
172.5°	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6	1747.0	1745.3	1743.6
175°	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5	1754.5	1752.6	1750.6
177.5°	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7	1756.2	1754.6	1753.0
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331821-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1291.5	1288.9	1284.2	1276.8	1272.5	1264.8	1259.7	1262.7	1263.4	1262.7	1261.9
5°	1256.8	1247.1	1233.9	1221.2	1209.4	1196.7	1189.4	1186.2	1179.8	1176.2	1174.4
7.5°	1214.8	1198.3	1179.6	1157.4	1138.5	1118.8	1108.8	1103.7	1090.7	1083.6	1077.4
10°	1183.5	1157.5	1138.9	1109.7	1092.0	1066.0	1048.3	1048.7	1031.0	1020.9	1013.7
12.5°	1148.9	1120.3	1089.3	1063.1	1038.4	1017.6	996.2	987.6	968.7	959.0	939.4
15°	1091.5	1058.3	1025.6	990.0	965.0	932.6	901.7	863.9	833.4	807.0	799.8
17.5°	1028.9	987.7	954.8	913.2	870.3	815.9	780.1	758.1	739.8	725.9	715.4
20°	985.9	944.1	909.0	846.1	788.4	751.5	725.1	708.3	689.1	674.1	665.9
22.5°	940.8	897.1	849.3	779.2	734.1	704.5	681.0	661.6	648.7	636.9	629.5
25°	876.6	828.8	750.1	701.9	665.5	634.5	618.1	606.3	592.6	576.7	569.4
27.5°	809.0	732.9	676.4	640.5	605.7	585.6	570.9	553.2	541.0	533.9	526.3
30°	758.3	682.3	638.2	599.1	574.4	552.1	534.8	524.9	513.0	500.7	495.7
32.5°	701.9	641.1	598.9	566.2	541.3	522.3	508.6	492.4	483.8	476.3	465.8
35°	631.8	585.9	547.2	520.8	497.0	481.6	465.7	456.1	440.6	434.3	430.2
37.5°	572.4	532.5	503.7	475.8	457.1	440.0	430.3	415.0	408.3	399.5	390.8
40°	539.0	499.8	472.0	449.2	428.3	415.5	403.3	391.0	380.9	376.9	366.4
42.5°	504.7	472.9	445.1	420.1	406.1	392.6	377.1	368.1	357.7	351.1	344.6
45°	457.4	429.3	405.6	385.0	369.6	355.5	345.4	330.5	324.6	311.3	305.9
47.5°	416.0	389.7	367.1	347.7	332.5	323.3	308.7	296.9	287.5	279.4	272.4
50°	386.5	364.6	342.8	325.5	311.8	298.6	283.6	277.7	263.1	259.0	254.9
52.5°	359.5	338.8	318.7	301.8	288.1	275.3	262.1	254.3	244.5	240.4	237.5
55°	321.8	301.8	282.7	267.6	254.0	240.8	232.6	223.0	218.5	215.3	211.7
57.5°	283.9	265.9	251.3	236.0	222.3	211.9	202.3	196.6	191.9	187.7	183.3
60°	259.9	242.6	229.4	215.3	201.2	192.5	185.3	178.4	173.0	166.6	164.8
62.5°	234.4	219.3	207.2	193.4	181.2	173.3	166.3	159.9	153.3	144.0	141.4
65°	199.4	187.5	174.8	163.5	152.5	144.7	134.7	127.4	124.8	123.8	123.3
67.5°	167.7	156.5	145.5	133.9	123.9	116.8	111.7	110.6	108.7	108.2	106.9
70°	146.6	136.1	125.2	114.2	104.7	103.3	101.5	99.7	97.4	96.5	95.6
72.5°	127.6	116.8	105.8	97.1	93.0	91.3	89.5	87.7	86.1	85.2	84.6
75°	97.8	87.8	80.6	77.4	75.1	73.7	71.0	69.6	68.8	67.3	66.9
77.5°	70.4	64.8	61.4	59.5	57.1	55.6	54.0	52.7	51.7	51.5	50.7
80°	53.7	51.0	48.7	46.0	45.0	43.2	42.8	41.5	41.9	40.5	40.5
82.5°	41.7	38.3	36.3	35.0	34.2	32.7	32.2	31.6	31.7	30.7	30.7
85°	21.4	20.5	19.5	18.6	18.6	17.3	17.7	17.3	17.3	16.4	16.0
87.5°	9.6	9.8	9.5	10.0	10.4	10.5	10.8	10.7	11.1	11.3	11.1
90°	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2	29.6	31.0	32.0
92.5°	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9	31.7	32.4	32.9
95°	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3	53.7	55.1	55.6
97.5°	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5	69.6	70.7	71.4
100°	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8	79.1	81.3	82.8
102.5°	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2	83.1	86.1	87.9
105°	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6	86.7	89.8	91.8
107.5°	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0	98.8	95.7	94.7
110°	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6	137.4	109.2	95.7



TEST NUMBER: P331821-940

CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2	251.4	148.6	97.6
115°	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6	391.0	260.6	185.1
117.5°	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6	772.0	740.5	691.3
120°	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4	939.8	943.2	925.8
122.5°	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5	995.6	997.6	994.9
125°	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6	1077.5	1079.5	1080.9
127.5°	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5	1154.3	1157.2	1158.8
130°	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6	1202.7	1205.8	1207.2
132.5°	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3	1249.0	1251.7	1252.9
135°	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1	1316.0	1318.8	1319.9
137.5°	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2	1378.0	1380.7	1381.6
140°	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3	1417.9	1420.4	1420.9
142.5°	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4	1454.7	1457.1	1457.5
145°	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2	1506.2	1508.2	1508.5
147.5°	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4	1550.9	1552.4	1552.5
150°	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3	1579.0	1580.6	1580.7
152.5°	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6	1604.3	1606.0	1605.9
155°	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8	1638.5	1640.2	1639.9
157.5°	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7	1667.6	1669.6	1669.4
160°	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5	1684.2	1685.9	1685.8
162.5°	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2	1700.1	1702.0	1701.7
165°	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3
167.5°	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3	1735.3	1737.2	1737.0
170°	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4	1743.4	1745.3	1745.1
172.5°	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5	1749.4	1751.4	1751.1
175°	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1	1756.0	1758.0	1757.7
177.5°	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8	1756.4	1758.0	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331821-940

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1257.9	1258.6	1257.6	1258.3	1257.6	1258.6	1257.9	1261.9	1262.7	1263.4	1262.7
5°	1172.1	1166.6	1165.7	1164.3	1165.7	1166.6	1172.1	1174.4	1176.2	1179.8	1186.2
7.5°	1069.6	1068.7	1066.5	1063.3	1066.5	1068.7	1069.6	1077.4	1083.6	1090.7	1103.7
10°	1003.6	1001.4	1000.9	997.7	1000.9	1001.4	1003.6	1013.7	1020.9	1031.0	1048.7
12.5°	926.5	911.8	910.3	902.3	910.3	911.8	926.5	939.4	959.0	968.7	987.6
15°	788.8	786.1	776.9	771.1	776.9	786.1	788.8	799.8	807.0	833.4	863.9
17.5°	710.2	701.2	698.4	697.1	698.4	701.2	710.2	715.4	725.9	739.8	758.1
20°	659.5	651.4	650.0	649.1	650.0	651.4	659.5	665.9	674.1	689.1	708.3
22.5°	624.6	616.0	612.5	609.8	612.5	616.0	624.6	629.5	636.9	648.7	661.6
25°	564.9	561.7	559.9	558.9	559.9	561.7	564.9	569.4	576.7	592.6	606.3
27.5°	518.2	511.1	509.8	507.5	509.8	511.1	518.2	526.3	533.9	541.0	553.2
30°	491.6	489.3	486.2	483.4	486.2	489.3	491.6	495.7	500.7	513.0	524.9
32.5°	460.3	458.3	455.6	454.2	455.6	458.3	460.3	465.8	476.3	483.8	492.4
35°	425.6	419.2	416.5	412.4	416.5	419.2	425.6	430.2	434.3	440.6	456.1
37.5°	388.9	385.6	381.7	383.1	381.7	385.6	388.9	390.8	399.5	408.3	415.0
40°	360.5	358.2	357.3	356.9	357.3	358.2	360.5	366.4	376.9	380.9	391.0
42.5°	338.0	331.6	329.3	329.2	329.3	331.6	338.0	344.6	351.1	357.7	368.1
45°	303.6	297.7	293.6	294.1	293.6	297.7	303.6	305.9	311.3	324.6	330.5
47.5°	268.5	268.3	265.7	266.5	265.7	268.3	268.5	272.4	279.4	287.5	296.9
50°	251.7	249.0	247.2	247.6	247.2	249.0	251.7	254.9	259.0	263.1	277.7
52.5°	235.7	233.4	231.8	233.8	231.8	233.4	235.7	237.5	240.4	244.5	254.3
55°	209.4	206.6	206.2	205.7	206.2	206.6	209.4	211.7	215.3	218.5	223.0
57.5°	179.9	178.2	175.4	174.2	175.4	178.2	179.9	183.3	187.7	191.9	196.6
60°	158.8	155.2	150.7	150.2	150.7	155.2	158.8	164.8	166.6	173.0	178.4
62.5°	139.6	138.8	137.9	137.9	137.9	138.8	139.6	141.4	144.0	153.3	159.9
65°	122.4	122.0	122.4	122.9	122.4	122.0	122.4	123.3	123.8	124.8	127.4
67.5°	106.7	105.8	105.0	105.4	105.0	105.8	106.7	106.9	108.2	108.7	110.6
70°	94.7	94.3	93.8	93.8	93.8	94.3	94.7	95.6	96.5	97.4	99.7
72.5°	83.0	82.9	82.5	82.1	82.5	82.9	83.0	84.6	85.2	86.1	87.7
75°	66.4	65.5	65.5	65.5	65.5	65.5	66.4	66.9	67.3	68.8	69.6
77.5°	50.6	50.2	49.7	49.3	49.7	50.2	50.6	50.7	51.5	51.7	52.7
80°	40.0	39.6	39.1	39.1	39.1	39.6	40.0	40.5	40.5	41.9	41.5
82.5°	30.6	30.1	30.1	29.7	30.1	30.1	30.6	30.7	30.7	31.7	31.6
85°	16.4	16.9	16.4	17.3	16.4	16.9	16.4	16.0	16.4	17.3	17.3
87.5°	11.2	11.0	11.5	11.2	11.5	11.0	11.2	11.1	11.3	11.1	10.7
90°	32.5	33.1	33.7	34.2	33.7	33.1	32.5	32.0	31.0	29.6	28.2
92.5°	33.3	33.5	33.9	34.2	33.9	33.5	33.3	32.9	32.4	31.7	30.9
95°	55.4	55.1	54.8	54.6	54.8	55.1	55.4	55.6	55.1	53.7	52.3
97.5°	71.8	72.1	72.5	72.8	72.5	72.1	71.8	71.4	70.7	69.6	68.5
100°	83.3	83.8	84.4	85.0	84.4	83.8	83.3	82.8	81.3	79.1	76.8
102.5°	88.7	89.4	90.2	91.0	90.2	89.4	88.7	87.9	86.1	83.1	80.2
105°	93.0	94.2	95.2	96.4	95.2	94.2	93.0	91.8	89.8	86.7	83.6
107.5°	95.8	96.9	98.1	99.2	98.1	96.9	95.8	94.7	95.7	98.8	102.0
110°	96.8	97.9	99.1	100.2	99.1	97.9	96.8	95.7	109.2	137.4	165.6



TEST NUMBER: P331821-940

CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	98.5	99.4	100.3	101.2	100.3	99.4	98.5	97.6	148.6	251.4	354.2
115°	164.9	144.5	124.3	104.0	124.3	144.5	164.9	185.1	260.6	391.0	521.6
117.5°	624.6	557.9	491.2	424.6	491.2	557.9	624.6	691.3	740.5	772.0	803.6
120°	887.8	849.7	811.6	773.6	811.6	849.7	887.8	925.8	943.2	939.8	936.4
122.5°	987.5	980.2	972.8	965.4	972.8	980.2	987.5	994.9	997.6	995.6	993.5
125°	1081.8	1082.6	1083.5	1084.3	1083.5	1082.6	1081.8	1080.9	1079.5	1077.5	1075.6
127.5°	1158.9	1159.0	1159.2	1159.4	1159.2	1159.0	1158.9	1158.8	1157.2	1154.3	1151.5
130°	1206.9	1206.7	1206.4	1206.0	1206.4	1206.7	1206.9	1207.2	1205.8	1202.7	1199.6
132.5°	1252.6	1252.3	1252.1	1251.7	1252.1	1252.3	1252.6	1252.9	1251.7	1249.0	1246.3
135°	1319.4	1318.8	1318.2	1317.7	1318.2	1318.8	1319.4	1319.9	1318.8	1316.0	1313.1
137.5°	1380.6	1379.7	1378.8	1377.8	1378.8	1379.7	1380.6	1381.6	1380.7	1378.0	1375.2
140°	1419.6	1418.2	1416.8	1415.3	1416.8	1418.2	1419.6	1420.9	1420.4	1417.9	1415.3
142.5°	1456.1	1454.6	1453.3	1451.9	1453.3	1454.6	1456.1	1457.5	1457.1	1454.7	1452.4
145°	1507.1	1505.7	1504.2	1502.9	1504.2	1505.7	1507.1	1508.5	1508.2	1506.2	1504.2
147.5°	1551.3	1550.2	1548.9	1547.7	1548.9	1550.2	1551.3	1552.5	1552.4	1550.9	1549.4
150°	1579.4	1578.0	1576.5	1575.1	1576.5	1578.0	1579.4	1580.7	1580.6	1579.0	1577.3
152.5°	1604.0	1602.2	1600.4	1598.5	1600.4	1602.2	1604.0	1605.9	1606.0	1604.3	1602.6
155°	1637.7	1635.5	1633.2	1630.9	1633.2	1635.5	1637.7	1639.9	1640.2	1638.5	1636.8
157.5°	1667.2	1665.0	1662.8	1660.6	1662.8	1665.0	1667.2	1669.4	1669.6	1667.6	1665.7
160°	1683.8	1681.8	1679.8	1677.8	1679.8	1681.8	1683.8	1685.8	1685.9	1684.2	1682.5
162.5°	1699.3	1696.9	1694.5	1692.1	1694.5	1696.9	1699.3	1701.7	1702.0	1700.1	1698.2
165°	1719.3	1717.3	1715.4	1713.3	1715.4	1717.3	1719.3	1721.3	1721.3	1719.3	1717.3
167.5°	1734.5	1731.9	1729.4	1726.8	1729.4	1731.9	1734.5	1737.0	1737.2	1735.3	1733.3
170°	1742.6	1740.0	1737.5	1734.9	1737.5	1740.0	1742.6	1745.1	1745.3	1743.4	1741.4
172.5°	1748.6	1746.1	1743.6	1741.0	1743.6	1746.1	1748.6	1751.1	1751.4	1749.4	1747.5
175°	1754.8	1751.9	1749.2	1746.3	1749.2	1751.9	1754.8	1757.7	1758.0	1756.0	1754.1
177.5°	1755.7	1753.7	1751.7	1749.6	1751.7	1753.7	1755.7	1757.7	1758.0	1756.4	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



TEST NUMBER: P331821-940

CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1259.7	1264.8	1272.5	1276.8	1284.2	1288.9	1291.5	1296.2	1298.7	1307.8	1317.3
5°	1189.4	1196.7	1209.4	1221.2	1233.9	1247.1	1256.8	1267.7	1277.6	1294.9	1313.2
7.5°	1108.8	1118.8	1138.5	1157.4	1179.6	1198.3	1214.8	1233.4	1250.1	1274.9	1300.7
10°	1048.3	1066.0	1092.0	1109.7	1138.9	1157.5	1183.5	1203.9	1227.2	1259.9	1289.1
12.5°	996.2	1017.6	1038.4	1063.1	1089.3	1120.3	1148.9	1175.2	1202.7	1236.6	1270.9
15°	901.7	932.6	965.0	990.0	1025.6	1058.3	1091.5	1127.0	1160.7	1201.2	1245.8
17.5°	780.1	815.9	870.3	913.2	954.8	987.7	1028.9	1071.8	1111.5	1160.4	1210.1
20°	725.1	751.5	788.4	846.1	909.0	944.1	985.9	1033.2	1078.8	1132.0	1185.3
22.5°	681.0	704.5	734.1	779.2	849.3	897.1	940.8	988.8	1041.6	1096.0	1155.0
25°	618.1	634.5	665.5	701.9	750.1	828.8	876.6	924.9	982.3	1040.5	1107.9
27.5°	570.9	585.6	605.7	640.5	676.4	732.9	809.0	861.6	918.7	984.3	1054.2
30°	534.8	552.1	574.4	599.1	638.2	682.3	758.3	819.3	875.7	943.2	1017.8
32.5°	508.6	522.3	541.3	566.2	598.9	641.1	701.9	776.0	831.0	902.0	979.9
35°	465.7	481.6	497.0	520.8	547.2	585.9	631.8	711.0	765.6	835.7	914.0
37.5°	430.3	440.0	457.1	475.8	503.7	532.5	572.4	643.5	702.5	771.3	851.5
40°	403.3	415.5	428.3	449.2	472.0	499.8	539.0	591.7	659.5	726.9	805.2
42.5°	377.1	392.6	406.1	420.1	445.1	472.9	504.7	549.5	618.8	682.5	758.6
45°	345.4	355.5	369.6	385.0	405.6	429.3	457.4	496.6	563.0	618.1	689.6
47.5°	308.7	323.3	332.5	347.7	367.1	389.7	416.0	449.8	503.6	555.3	621.5
50°	283.6	298.6	311.8	325.5	342.8	364.6	386.5	419.2	462.4	516.7	578.5
52.5°	262.1	275.3	288.1	301.8	318.7	338.8	359.5	388.3	425.3	475.1	535.2
55°	232.6	240.8	254.0	267.6	282.7	301.8	321.8	345.9	377.8	419.6	468.4
57.5°	202.3	211.9	222.3	236.0	251.3	265.9	283.9	305.8	330.9	368.8	410.5
60°	185.3	192.5	201.2	215.3	229.4	242.6	259.9	278.1	301.8	334.6	370.1
62.5°	166.3	173.3	181.2	193.4	207.2	219.3	234.4	253.7	273.8	303.6	334.7
65°	134.7	144.7	152.5	163.5	174.8	187.5	199.4	214.8	232.6	256.3	284.0
67.5°	111.7	116.8	123.9	133.9	145.5	156.5	167.7	179.8	195.2	213.5	235.5
70°	101.5	103.3	104.7	114.2	125.2	136.1	146.6	157.9	171.1	186.2	205.3
72.5°	89.5	91.3	93.0	97.1	105.8	116.8	127.6	136.1	148.6	161.0	176.6
75°	71.0	73.7	75.1	77.4	80.6	87.8	97.8	106.0	113.3	122.9	135.2
77.5°	54.0	55.6	57.1	59.5	61.4	64.8	70.4	77.8	84.6	90.2	98.7
80°	42.8	43.2	45.0	46.0	48.7	51.0	53.7	59.7	66.4	68.8	74.6
82.5°	32.2	32.7	34.2	35.0	36.3	38.3	41.7	43.2	48.6	51.6	55.4
85°	17.7	17.3	18.6	18.6	19.5	20.5	21.4	23.6	25.1	28.7	29.6
87.5°	10.8	10.5	10.4	10.0	9.5	9.8	9.6	9.4	9.5	10.0	10.8
90°	26.8	25.3	23.1	20.9	18.6	16.3	13.6	10.6	7.5	4.4	1.2
92.5°	30.1	29.4	28.3	27.2	26.0	24.9	24.5	24.8	25.1	25.3	25.6
95°	50.8	49.5	47.5	45.5	43.5	41.6	45.2	54.6	63.8	73.1	82.4
97.5°	67.3	66.2	61.6	57.1	52.5	48.0	58.8	85.0	111.2	137.4	163.6
100°	74.5	72.3	67.5	62.7	57.9	53.1	70.0	108.6	147.2	185.8	224.4
102.5°	77.2	74.3	114.4	154.4	194.6	234.6	258.8	266.9	275.1	283.3	291.4
105°	80.4	77.4	154.3	231.2	308.2	385.1	419.4	410.9	402.4	394.0	385.6
107.5°	105.1	108.3	200.5	292.8	385.1	477.4	520.1	513.3	506.5	499.6	492.8
110°	193.8	221.9	303.4	384.9	466.3	547.7	585.5	579.6	573.6	567.8	561.9



TEST NUMBER: P331821-940

CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	457.0	559.8	579.9	600.0	620.2	640.2	647.7	642.5	637.2	632.0	626.8
115°	652.0	782.5	775.4	768.4	761.3	754.3	748.4	743.6	738.8	734.1	729.2
117.5°	835.2	866.7	861.8	857.0	852.1	847.3	842.2	836.9	831.5	826.2	820.8
120°	933.0	929.6	924.5	919.4	914.4	909.3	904.6	900.4	896.2	892.0	887.8
122.5°	991.5	989.4	983.9	978.4	972.9	967.4	962.4	958.0	953.5	949.0	944.6
125°	1073.6	1071.7	1066.3	1061.0	1055.6	1050.3	1045.7	1042.1	1038.4	1034.7	1031.1
127.5°	1148.6	1145.8	1141.7	1137.7	1133.7	1129.7	1125.7	1121.6	1117.6	1113.5	1109.5
130°	1196.5	1193.4	1190.3	1187.2	1184.1	1181.0	1177.2	1172.7	1168.1	1163.7	1159.1
132.5°	1243.8	1241.1	1238.0	1234.8	1231.8	1228.7	1225.2	1221.4	1217.5	1213.7	1209.9
135°	1310.4	1307.5	1305.0	1302.4	1299.9	1297.4	1293.9	1289.3	1284.9	1280.3	1275.9
137.5°	1372.4	1369.7	1366.8	1364.0	1361.0	1358.2	1355.1	1352.0	1348.9	1345.7	1342.6
140°	1412.8	1410.2	1407.2	1404.1	1401.0	1397.8	1395.2	1392.9	1390.7	1388.4	1386.2
142.5°	1450.1	1447.8	1444.2	1440.7	1437.2	1433.6	1430.8	1428.8	1426.7	1424.7	1422.7
145°	1502.3	1500.3	1495.5	1490.8	1485.9	1481.1	1478.9	1479.2	1479.4	1479.7	1480.1
147.5°	1547.9	1546.5	1541.8	1537.0	1532.2	1527.5	1525.7	1526.8	1527.9	1528.9	1530.0
150°	1575.6	1573.9	1569.3	1564.9	1560.3	1555.9	1554.5	1556.6	1558.5	1560.5	1562.5
152.5°	1600.9	1599.2	1594.9	1590.6	1586.4	1582.1	1581.1	1583.2	1585.5	1587.7	1589.8
155°	1635.1	1633.4	1630.1	1626.7	1623.4	1620.0	1619.5	1622.0	1624.6	1627.1	1629.7
157.5°	1663.8	1661.9	1659.5	1657.2	1654.7	1652.4	1652.3	1654.5	1656.6	1658.8	1660.9
160°	1680.8	1679.1	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1
162.5°	1696.3	1694.3	1692.9	1691.4	1690.0	1688.5	1688.6	1690.3	1692.0	1693.7	1695.3
165°	1715.4	1713.3	1712.5	1711.6	1710.8	1710.0	1710.4	1712.1	1713.8	1715.5	1717.2
167.5°	1731.3	1729.4	1728.6	1727.8	1727.0	1726.2	1726.6	1728.3	1730.0	1731.7	1733.4
170°	1739.5	1737.5	1736.9	1736.3	1735.8	1735.2	1735.8	1737.5	1739.2	1740.9	1742.6
172.5°	1745.5	1743.6	1743.0	1742.4	1741.9	1741.3	1741.9	1743.6	1745.3	1747.0	1748.6
175°	1752.1	1750.2	1749.6	1749.0	1748.5	1747.9	1748.6	1750.6	1752.6	1754.5	1756.5
177.5°	1753.3	1751.7	1751.4	1751.2	1751.0	1750.8	1751.4	1753.0	1754.6	1756.2	1757.7
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CATALOG NUMBER: S122RDIW-S675D1440U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1317.7	1318.8	1326.1	1329.3	1335.9	1338.4	1341.3	1340.6	1340.6	1342.0	1352.3
5°	1320.4	1329.5	1343.2	1356.4	1369.1	1380.1	1387.4	1394.6	1397.4	1410.6	1422.5
7.5°	1315.7	1332.5	1355.0	1375.2	1399.3	1418.2	1433.8	1448.0	1457.6	1476.8	1496.5
10°	1309.6	1333.2	1358.7	1384.6	1417.9	1442.9	1468.4	1488.0	1494.3	1523.0	1539.4
12.5°	1297.2	1328.8	1361.3	1394.8	1427.4	1461.9	1489.9	1509.5	1531.9	1557.6	1587.9
15°	1278.6	1315.0	1357.4	1400.6	1447.0	1488.9	1518.9	1553.1	1577.6	1605.9	1632.3
17.5°	1251.9	1298.8	1352.6	1402.7	1456.3	1501.4	1542.7	1575.5	1592.8	1608.8	1612.7
20°	1230.8	1281.3	1344.6	1403.7	1457.5	1509.4	1550.3	1577.6	1582.2	1582.6	1558.5
22.5°	1207.8	1264.9	1331.1	1391.8	1456.0	1513.8	1545.6	1557.3	1539.2	1508.3	1461.7
25°	1165.7	1231.7	1308.7	1377.8	1448.0	1502.5	1513.5	1493.0	1429.7	1363.2	1279.1
27.5°	1120.0	1194.2	1276.7	1353.6	1428.3	1462.1	1438.5	1364.7	1250.7	1151.6	1031.6
30°	1086.5	1169.8	1250.8	1336.9	1406.0	1420.6	1366.5	1257.7	1124.7	975.4	855.8
32.5°	1048.3	1135.6	1224.6	1313.6	1371.5	1357.3	1267.7	1133.8	978.0	831.3	718.1
35°	993.6	1083.8	1179.8	1269.0	1305.9	1244.5	1110.6	936.3	776.9	640.0	562.1
37.5°	930.6	1028.7	1128.5	1210.5	1207.8	1105.5	923.2	743.2	609.3	528.2	472.9
40°	885.7	985.0	1092.9	1162.1	1132.5	999.1	801.6	631.8	534.0	469.3	428.7
42.5°	842.8	942.4	1049.5	1104.6	1053.1	889.1	692.3	559.3	478.6	428.1	395.3
45°	769.7	874.9	974.1	1004.6	912.7	731.9	559.9	463.3	409.7	372.4	349.6
47.5°	698.2	801.6	892.2	892.8	768.4	593.5	472.3	401.0	355.2	326.3	309.7
50°	654.5	752.9	828.8	817.1	675.9	528.0	422.4	361.0	322.7	300.4	283.1
52.5°	605.4	700.8	766.6	732.9	597.6	464.7	377.6	326.0	294.4	274.9	259.5
55°	534.0	618.6	665.0	614.0	487.5	386.5	319.1	278.6	254.9	238.5	225.3
57.5°	463.7	533.6	562.8	503.5	401.5	320.5	269.9	239.5	216.1	204.3	197.4
60°	419.6	479.3	499.8	434.3	349.1	280.4	239.0	210.7	193.4	185.7	178.9
62.5°	376.3	425.1	433.5	373.4	304.3	245.4	209.8	186.0	174.5	167.1	160.7
65°	312.3	347.3	343.2	295.0	240.8	194.8	168.9	154.3	145.6	135.2	123.8
67.5°	257.1	278.5	265.6	229.4	183.8	151.4	134.5	123.4	112.7	102.8	100.1
70°	222.1	234.4	220.8	187.5	150.7	127.0	113.3	100.1	93.8	91.5	87.4
72.5°	188.6	192.9	178.2	149.6	122.6	105.1	91.8	84.4	81.1	79.1	76.5
75°	141.6	138.4	125.6	103.3	85.2	73.3	69.2	66.4	64.2	62.3	61.0
77.5°	99.4	94.8	83.4	68.8	59.3	53.6	51.2	49.7	48.6	47.7	46.4
80°	74.6	71.4	60.1	49.1	45.0	42.4	40.9	39.1	39.1	38.3	36.8
82.5°	54.7	51.1	41.1	36.0	33.8	32.1	31.1	30.1	29.7	29.9	28.9
85°	28.7	23.2	20.5	19.5	18.2	17.3	17.7	16.9	16.9	16.9	16.4
87.5°	9.6	8.4	8.6	8.9	9.8	10.3	10.3	10.8	11.6	11.5	12.2
90°	4.4	7.5	10.6	13.6	16.3	18.6	20.9	23.1	25.3	26.8	28.2
92.5°	25.3	25.1	24.8	24.5	24.9	26.0	27.2	28.3	29.4	30.1	30.9
95°	73.1	63.8	54.6	45.2	41.6	43.5	45.5	47.5	49.5	50.8	52.3
97.5°	137.4	111.2	85.0	58.8	48.0	52.5	57.1	61.6	66.2	67.3	68.5
100°	185.8	147.2	108.6	70.0	53.1	57.9	62.7	67.5	72.3	74.5	76.8
102.5°	283.3	275.1	266.9	258.8	234.6	194.6	154.4	114.4	74.3	77.2	80.2
105°	394.0	402.4	410.9	419.4	385.1	308.2	231.2	154.3	77.4	80.4	83.6
107.5°	499.6	506.5	513.3	520.1	477.4	385.1	292.8	200.5	108.3	105.1	102.0
110°	567.8	573.6	579.6	585.5	547.7	466.3	384.9	303.4	221.9	193.8	165.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	632.0	637.2	642.5	647.7	640.2	620.2	600.0	579.9	559.8	457.0	354.2
115°	734.1	738.8	743.6	748.4	754.3	761.3	768.4	775.4	782.5	652.0	521.6
117.5°	826.2	831.5	836.9	842.2	847.3	852.1	857.0	861.8	866.7	835.2	803.6
120°	892.0	896.2	900.4	904.6	909.3	914.4	919.4	924.5	929.6	933.0	936.4
122.5°	949.0	953.5	958.0	962.4	967.4	972.9	978.4	983.9	989.4	991.5	993.5
125°	1034.7	1038.4	1042.1	1045.7	1050.3	1055.6	1061.0	1066.3	1071.7	1073.6	1075.6
127.5°	1113.5	1117.6	1121.6	1125.7	1129.7	1133.7	1137.7	1141.7	1145.8	1148.6	1151.5
130°	1163.7	1168.1	1172.7	1177.2	1181.0	1184.1	1187.2	1190.3	1193.4	1196.5	1199.6
132.5°	1213.7	1217.5	1221.4	1225.2	1228.7	1231.8	1234.8	1238.0	1241.1	1243.8	1246.3
135°	1280.3	1284.9	1289.3	1293.9	1297.4	1299.9	1302.4	1305.0	1307.5	1310.4	1313.1
137.5°	1345.7	1348.9	1352.0	1355.1	1358.2	1361.0	1364.0	1366.8	1369.7	1372.4	1375.2
140°	1388.4	1390.7	1392.9	1395.2	1397.8	1401.0	1404.1	1407.2	1410.2	1412.8	1415.3
142.5°	1424.7	1426.7	1428.8	1430.8	1433.6	1437.2	1440.7	1444.2	1447.8	1450.1	1452.4
145°	1479.7	1479.4	1479.2	1478.9	1481.1	1485.9	1490.8	1495.5	1500.3	1502.3	1504.2
147.5°	1528.9	1527.9	1526.8	1525.7	1527.5	1532.2	1537.0	1541.8	1546.5	1547.9	1549.4
150°	1560.5	1558.5	1556.6	1554.5	1555.9	1560.3	1564.9	1569.3	1573.9	1575.6	1577.3
152.5°	1587.7	1585.5	1583.2	1581.1	1582.1	1586.4	1590.6	1594.9	1599.2	1600.9	1602.6
155°	1627.1	1624.6	1622.0	1619.5	1620.0	1623.4	1626.7	1630.1	1633.4	1635.1	1636.8
157.5°	1658.8	1656.6	1654.5	1652.3	1652.4	1654.7	1657.2	1659.5	1661.9	1663.8	1665.7
160°	1677.4	1675.8	1674.1	1672.4	1672.4	1674.1	1675.8	1677.4	1679.1	1680.8	1682.5
162.5°	1693.7	1692.0	1690.3	1688.6	1688.5	1690.0	1691.4	1692.9	1694.3	1696.3	1698.2
165°	1715.5	1713.8	1712.1	1710.4	1710.0	1710.8	1711.6	1712.5	1713.3	1715.4	1717.3
167.5°	1731.7	1730.0	1728.3	1726.6	1726.2	1727.0	1727.8	1728.6	1729.4	1731.3	1733.3
170°	1740.9	1739.2	1737.5	1735.8	1735.2	1735.8	1736.3	1736.9	1737.5	1739.5	1741.4
172.5°	1747.0	1745.3	1743.6	1741.9	1741.3	1741.9	1742.4	1743.0	1743.6	1745.5	1747.5
175°	1754.5	1752.6	1750.6	1748.6	1747.9	1748.5	1749.0	1749.6	1750.2	1752.1	1754.1
177.5°	1756.2	1754.6	1753.0	1751.4	1750.8	1751.0	1751.2	1751.4	1751.7	1753.3	1754.8
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0	1310.0
2.5°	1355.8	1360.6	1362.8	1362.8	1365.4	1364.2	1363.2
5°	1433.8	1442.4	1444.3	1452.5	1458.4	1456.5	1457.5
7.5°	1511.3	1525.2	1538.9	1545.2	1546.2	1549.9	1551.2
10°	1559.0	1570.4	1591.8	1588.6	1604.5	1613.6	1598.6
12.5°	1604.9	1620.2	1635.0	1639.1	1648.2	1651.1	1645.2
15°	1646.4	1654.6	1655.5	1653.2	1655.9	1653.7	1645.0
17.5°	1607.6	1594.3	1567.4	1554.6	1544.5	1529.6	1523.6
20°	1543.5	1504.3	1458.8	1440.6	1419.2	1377.3	1387.4
22.5°	1405.2	1360.5	1315.0	1261.9	1236.4	1196.8	1194.4
25°	1189.8	1112.9	1028.2	969.1	934.5	894.9	877.6
27.5°	925.1	828.2	758.8	723.7	691.8	660.4	659.1
30°	751.0	678.2	624.5	594.5	574.9	561.7	564.5
32.5°	633.0	583.2	547.0	522.0	507.6	497.6	497.4
35°	517.5	483.4	460.2	449.7	439.3	431.9	432.4
37.5°	442.9	422.4	409.5	397.9	391.4	387.8	385.8
40°	404.7	387.8	377.8	371.0	365.5	360.5	359.6
42.5°	374.4	360.5	350.4	345.1	340.0	336.4	335.6
45°	332.3	320.9	311.8	305.9	303.6	300.4	300.4
47.5°	295.6	284.4	277.3	273.6	269.7	267.5	267.4
50°	270.8	262.2	255.8	253.5	250.3	249.0	248.5
52.5°	248.6	242.2	237.6	236.0	234.7	232.9	233.3
55°	218.5	214.8	213.0	211.7	209.4	206.6	208.5
57.5°	193.1	190.0	185.1	180.8	178.7	176.8	177.5
60°	175.2	168.9	162.5	157.5	156.1	152.0	152.0
62.5°	152.7	143.7	135.9	133.1	131.7	129.8	129.5
65°	117.4	113.8	112.0	110.1	109.2	109.2	108.3
67.5°	97.3	95.9	93.9	93.4	92.5	92.2	91.9
70°	86.1	84.2	83.3	82.8	81.9	82.4	81.1
72.5°	75.1	73.7	73.5	72.3	71.7	71.8	70.8
75°	59.2	59.2	58.7	58.2	57.3	56.9	57.3
77.5°	45.5	45.6	44.8	44.7	44.6	44.7	44.2
80°	36.4	36.8	36.4	35.9	35.5	35.9	35.5
82.5°	28.8	28.1	28.0	27.9	27.8	27.6	27.5
85°	16.4	16.9	16.4	16.0	16.0	16.0	16.4
87.5°	12.1	12.4	12.6	12.7	12.8	12.9	12.7
90°	29.6	31.0	32.0	32.5	33.1	33.7	34.2
92.5°	31.7	32.4	32.9	33.3	33.5	33.9	34.2
95°	53.7	55.1	55.6	55.4	55.1	54.8	54.6
97.5°	69.6	70.7	71.4	71.8	72.1	72.5	72.8
100°	79.1	81.3	82.8	83.3	83.8	84.4	85.0
102.5°	83.1	86.1	87.9	88.7	89.4	90.2	91.0
105°	86.7	89.8	91.8	93.0	94.2	95.2	96.4
107.5°	98.8	95.7	94.7	95.8	96.9	98.1	99.2
110°	137.4	109.2	95.7	96.8	97.9	99.1	100.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	251.4	148.6	97.6	98.5	99.4	100.3	101.2
115°	391.0	260.6	185.1	164.9	144.5	124.3	104.0
117.5°	772.0	740.5	691.3	624.6	557.9	491.2	424.6
120°	939.8	943.2	925.8	887.8	849.7	811.6	773.6
122.5°	995.6	997.6	994.9	987.5	980.2	972.8	965.4
125°	1077.5	1079.5	1080.9	1081.8	1082.6	1083.5	1084.3
127.5°	1154.3	1157.2	1158.8	1158.9	1159.0	1159.2	1159.4
130°	1202.7	1205.8	1207.2	1206.9	1206.7	1206.4	1206.0
132.5°	1249.0	1251.7	1252.9	1252.6	1252.3	1252.1	1251.7
135°	1316.0	1318.8	1319.9	1319.4	1318.8	1318.2	1317.7
137.5°	1378.0	1380.7	1381.6	1380.6	1379.7	1378.8	1377.8
140°	1417.9	1420.4	1420.9	1419.6	1418.2	1416.8	1415.3
142.5°	1454.7	1457.1	1457.5	1456.1	1454.6	1453.3	1451.9
145°	1506.2	1508.2	1508.5	1507.1	1505.7	1504.2	1502.9
147.5°	1550.9	1552.4	1552.5	1551.3	1550.2	1548.9	1547.7
150°	1579.0	1580.6	1580.7	1579.4	1578.0	1576.5	1575.1
152.5°	1604.3	1606.0	1605.9	1604.0	1602.2	1600.4	1598.5
155°	1638.5	1640.2	1639.9	1637.7	1635.5	1633.2	1630.9
157.5°	1667.6	1669.6	1669.4	1667.2	1665.0	1662.8	1660.6
160°	1684.2	1685.9	1685.8	1683.8	1681.8	1679.8	1677.8
162.5°	1700.1	1702.0	1701.7	1699.3	1696.9	1694.5	1692.1
165°	1719.3	1721.3	1721.3	1719.3	1717.3	1715.4	1713.3
167.5°	1735.3	1737.2	1737.0	1734.5	1731.9	1729.4	1726.8
170°	1743.4	1745.3	1745.1	1742.6	1740.0	1737.5	1734.9
172.5°	1749.4	1751.4	1751.1	1748.6	1746.1	1743.6	1741.0
175°	1756.0	1758.0	1757.7	1754.8	1751.9	1749.2	1746.3
177.5°	1756.4	1758.0	1757.7	1755.7	1753.7	1751.7	1749.6
180°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7

(END OF REPORT)