

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: P331543

Luminaire Tested: **S122DIW-S675D1240U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331543
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: S122DIW-S675D1240U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.8 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

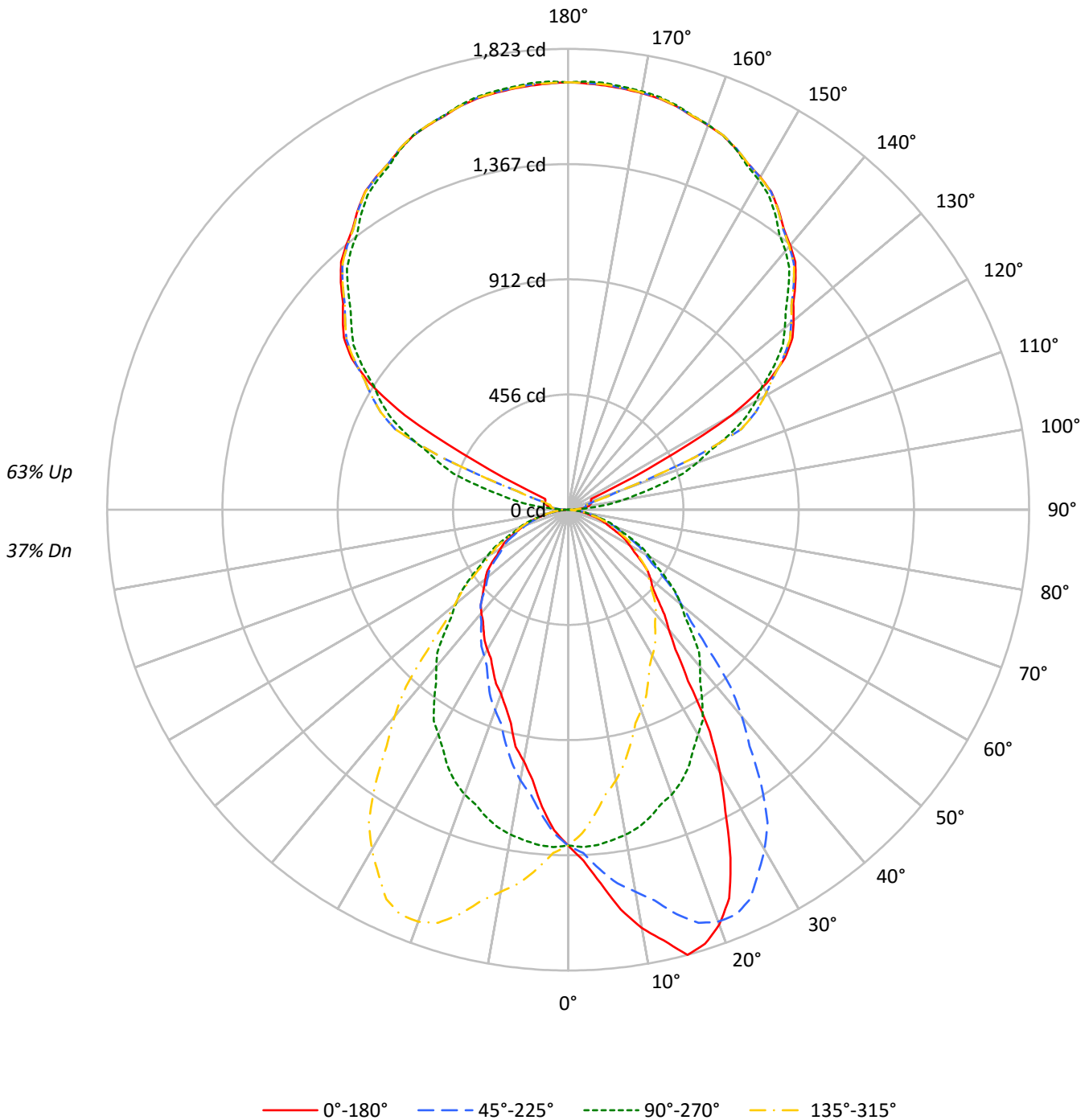
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37								
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32								
2	87	80	74	69	79	73	68	64	59	56	53	47	45	42	35	34	33	27								
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24								
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	29	26	25	21								
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18								
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16								
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14								
8	53	41	34	29	48	38	31	27	31	26	23	26	22	19	20	17	15	13								
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	18	16	14	12								
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21447	21447	21447	21447
5°	24044	21585	19128	21585
10°	27552	21408	16554	21408
15°	30479	21016	14626	21016
20°	30015	20594	13332	20594
25°	27064	20035	12513	20035
30°	22365	19140	11915	19140
35°	16301	18203	11491	18203
40°	13019	17098	11255	17098
45°	11376	15817	10933	15817
50°	10693	14579	10721	14579
55°	9858	13320	10432	13320
60°	9032	11983	9991	11983
65°	8229	10785	9555	10785
70°	7468	9616	8917	9616
75°	6625	8309	7898	8309
80°	5700	6881	6360	6881
85°	5113	5113	3779	5113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.6
10°-20°	367.8	4.7
20°-30°	533.7	6.8
30°-40°	563.2	7.1
40°-50°	498.7	6.3
50°-60°	398.0	5.0
60°-70°	270.5	3.4
70°-80°	138.7	1.8
80°-90°	37.6	0.5
90°-100°	56.4	0.7
100°-110°	206.8	2.6
110°-120°	552.8	7.0
120°-130°	912.5	11.6
130°-140°	970.4	12.3
140°-150°	902.0	11.4
150°-160°	725.2	9.2
160°-170°	467.3	5.9
170°-180°	160.9	2.0
0°-30°	1028.0	13.0
0°-40°	1591.2	20.2
0°-60°	2487.8	31.5
0°-90°	2934.6	37.2
90°-120°	816.0	10.3
90°-150°	3600.9	45.6
90°-180°	4954.0	62.8
0°-180°	7888.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1328	1328	1328	1328	1328	
5°	1484	1332	1180	1332	1484	148
15°	1823	1257	875	1257	1823	503
25°	1519	1125	702	1125	1519	687
35°	827	924	583	924	827	538
45°	498	693	479	693	498	392
55°	350	473	371	473	350	314
65°	215	282	250	282	215	214
75°	106	133	127	133	106	113
85°	28	28	20	28	28	31
90°	33	1	33	1	33	16
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	703	100	703	100	251
125°	1046	994	1046	994	1046	905
135°	1271	1231	1271	1231	1271	980
145°	1450	1428	1450	1428	1450	907
155°	1573	1572	1573	1572	1573	726
165°	1653	1656	1653	1656	1653	467
175°	1684	1694	1684	1694	1684	160
180°	1690	1690	1690	1690	1690	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1389.5	1389.9	1390.8	1384.2	1383.4	1383.4	1377.7	1372.8	1367.1	1359.3	1360.1
5°	1483.5	1489.1	1491.1	1485.0	1475.8	1474.8	1466.1	1451.8	1438.5	1427.8	1420.2
7.5°	1595.6	1597.8	1592.8	1584.7	1577.9	1565.7	1549.5	1533.7	1511.5	1491.2	1476.1
10°	1680.5	1683.6	1674.9	1663.2	1653.5	1639.2	1615.7	1591.7	1562.6	1534.5	1512.0
12.5°	1745.0	1752.6	1741.5	1739.9	1723.3	1703.7	1675.7	1663.6	1622.6	1583.5	1559.4
15°	1823.4	1822.9	1824.0	1814.3	1802.0	1798.9	1769.3	1737.2	1679.5	1656.5	1616.7
17.5°	1800.8	1808.5	1812.1	1812.0	1811.7	1809.8	1800.3	1780.0	1751.1	1713.8	1667.8
20°	1746.9	1757.1	1758.6	1770.4	1777.0	1785.7	1789.2	1783.6	1765.8	1734.6	1694.8
22.5°	1663.6	1666.4	1671.2	1689.5	1703.9	1725.6	1737.0	1755.9	1749.0	1733.8	1700.5
25°	1519.2	1514.1	1532.0	1541.1	1574.3	1609.0	1634.1	1661.6	1686.1	1700.9	1691.2
27.5°	1345.8	1338.2	1364.9	1389.3	1416.3	1453.9	1492.9	1538.9	1577.2	1625.1	1641.5
30°	1199.6	1204.2	1229.8	1255.8	1296.6	1349.7	1393.6	1444.2	1498.8	1552.4	1589.6
32.5°	1042.0	1059.7	1075.8	1115.7	1151.6	1210.9	1275.2	1338.4	1406.5	1467.4	1525.1
35°	827.0	847.4	869.9	899.0	949.5	1008.2	1071.0	1156.2	1249.2	1332.4	1400.8
37.5°	696.1	692.8	705.7	726.7	767.7	815.0	887.3	971.6	1080.9	1178.7	1275.2
40°	617.7	615.6	624.8	644.2	675.4	710.1	773.4	847.4	949.0	1068.4	1183.3
42.5°	563.8	565.0	570.1	583.8	605.1	633.7	681.1	744.1	837.1	949.6	1073.0
45°	498.2	501.8	507.4	514.1	526.3	549.8	576.3	621.3	694.8	788.7	910.2
47.5°	451.1	451.2	456.9	462.7	470.0	483.2	504.9	533.0	584.9	661.4	765.8
50°	425.7	422.2	426.3	430.8	438.5	447.7	462.0	488.5	523.2	585.0	672.3
52.5°	394.7	394.8	398.5	400.2	407.1	416.2	429.3	447.7	479.1	527.4	599.2
55°	350.2	352.7	354.8	357.8	364.0	370.6	380.8	393.1	417.6	453.8	506.9
57.5°	308.3	309.1	311.2	317.0	320.9	327.0	336.7	347.8	363.8	390.6	430.5
60°	279.7	279.7	283.8	286.4	291.5	297.6	305.3	316.0	330.3	352.2	384.4
62.5°	253.6	253.2	254.8	259.0	262.9	268.6	276.3	285.4	298.8	318.3	344.8
65°	215.4	214.4	217.5	218.5	222.6	228.2	234.3	244.0	254.7	269.0	292.5
67.5°	178.7	179.9	181.5	183.5	185.7	191.6	195.7	202.6	211.6	223.5	239.4
70°	158.2	158.2	158.2	159.8	162.8	165.9	170.0	175.6	184.3	194.5	208.8
72.5°	135.4	137.0	138.6	137.7	141.6	143.4	148.3	151.5	159.8	166.3	179.0
75°	106.2	106.2	106.2	108.7	110.3	111.8	114.9	117.9	122.0	130.2	136.8
77.5°	79.2	79.0	79.5	80.1	81.8	83.6	84.5	87.3	91.1	94.8	100.5
80°	61.3	62.3	62.8	63.8	63.8	64.8	65.3	68.9	71.5	74.0	77.6
82.5°	47.4	47.6	47.7	47.9	48.3	48.9	50.2	51.4	52.3	54.4	57.2
85°	27.6	27.1	27.1	28.1	27.6	27.6	28.6	29.6	29.6	30.1	31.6
87.5°	17.2	17.1	17.4	16.9	16.8	17.0	16.7	16.1	16.2	16.3	16.3
90°	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2	25.8	24.5	22.3
92.5°	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8	29.1	28.4	27.3
95°	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4	49.1	47.7	45.8
97.5°	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0	64.9	63.9	59.5
100°	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1	71.9	69.7	65.1
102.5°	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3	74.5	71.7	110.3
105°	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6	77.6	74.6	148.8
107.5°	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4	101.4	104.5	193.5
110°	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7	186.9	214.1	292.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6	440.8	539.9	559.4
115°	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0	628.9	754.8	748.0
117.5°	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1	805.5	836.0	831.3
120°	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2	899.9	896.6	891.8
122.5°	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3	956.3	954.4	949.1
125°	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5	1035.6	1033.7	1028.5
127.5°	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6	1107.9	1105.1	1101.2
130°	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1	1154.1	1151.1	1148.1
132.5°	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2	1199.6	1197.1	1194.1
135°	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6	1263.9	1261.2	1258.7
137.5°	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4	1323.8	1321.1	1318.3
140°	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2	1362.7	1360.3	1357.3
142.5°	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9	1398.7	1396.5	1393.0
145°	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9	1449.0	1447.1	1442.5
147.5°	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5	1493.1	1491.6	1487.1
150°	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3	1519.7	1518.1	1513.7
152.5°	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8	1544.2	1542.5	1538.4
155°	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8	1577.2	1575.6	1572.3
157.5°	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7	1604.8	1603.0	1600.7
160°	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9	1621.2	1619.6	1618.0
162.5°	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0	1636.1	1634.3	1632.9
165°	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6	1651.8
167.5°	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8	1669.9	1668.0	1667.3
170°	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7	1677.8	1675.9	1675.3
172.5°	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5	1683.6	1681.7	1681.2
175°	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9	1690.0	1688.1	1687.6
177.5°	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6	1691.1	1689.6	1689.3
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1363.0	1359.7	1357.7	1350.3	1343.8	1337.3	1335.2	1336.0	1327.1	1318.5	1314.8
5°	1416.1	1405.9	1396.2	1382.4	1366.1	1348.2	1339.0	1331.8	1314.0	1294.6	1283.4
7.5°	1463.7	1449.1	1430.4	1404.4	1380.7	1352.6	1334.7	1318.9	1292.7	1265.4	1248.6
10°	1492.7	1472.7	1448.7	1417.1	1388.0	1353.8	1329.8	1305.8	1275.2	1242.5	1222.1
12.5°	1517.6	1490.7	1467.1	1426.5	1392.1	1349.3	1320.8	1287.0	1254.8	1216.0	1196.0
15°	1576.9	1527.4	1482.4	1436.5	1394.1	1334.4	1302.8	1257.3	1214.9	1167.0	1144.0
17.5°	1622.7	1567.1	1496.3	1437.9	1388.5	1322.4	1275.9	1221.5	1171.4	1116.5	1085.3
20°	1648.9	1585.0	1509.0	1439.6	1380.3	1304.8	1254.3	1198.6	1139.9	1078.1	1044.4
22.5°	1664.4	1597.3	1522.1	1433.4	1364.0	1290.5	1226.9	1165.9	1106.4	1039.8	1004.4
25°	1669.3	1608.0	1528.4	1428.3	1343.6	1260.4	1183.8	1124.6	1052.6	990.3	938.8
27.5°	1645.0	1601.1	1524.5	1418.7	1320.0	1222.7	1137.4	1070.3	994.3	926.7	874.9
30°	1615.2	1589.6	1515.1	1408.9	1301.2	1196.6	1102.6	1026.6	951.0	882.6	829.5
32.5°	1569.0	1563.5	1498.0	1395.0	1281.2	1163.5	1066.3	989.4	905.7	838.5	787.9
35°	1478.4	1502.9	1461.5	1364.0	1243.5	1116.4	1011.3	923.5	836.7	772.4	724.9
37.5°	1356.9	1417.7	1406.9	1318.6	1192.7	1065.2	949.1	857.3	774.6	709.7	663.1
40°	1273.1	1350.7	1362.0	1283.9	1156.8	1025.6	902.5	811.2	730.5	671.3	624.3
42.5°	1183.3	1274.0	1304.8	1242.2	1117.5	983.9	860.9	766.2	686.4	628.8	587.2
45°	1032.7	1152.7	1208.3	1172.6	1052.1	915.3	788.7	692.7	620.2	566.1	534.0
47.5°	891.9	1023.0	1097.8	1085.2	979.3	843.8	718.7	626.6	556.0	512.8	484.0
50°	792.3	927.0	1017.4	1021.5	927.0	792.8	667.2	580.4	515.6	475.3	451.8
52.5°	705.7	834.3	932.9	954.5	868.6	739.7	621.1	534.7	477.6	440.5	419.5
55°	592.7	701.4	810.6	850.5	781.5	659.0	549.3	473.2	419.6	394.1	375.7
57.5°	492.7	583.4	684.3	728.3	685.8	580.9	478.0	412.0	368.5	346.1	332.0
60°	440.0	511.5	601.3	653.9	617.2	523.8	433.9	371.1	335.4	315.5	302.2
62.5°	391.0	454.3	530.3	578.4	558.4	470.3	389.8	334.4	303.5	284.8	275.3
65°	322.6	372.7	431.4	475.8	462.5	395.6	329.8	282.3	257.8	243.0	235.3
67.5°	265.7	301.8	342.5	381.4	370.7	323.3	270.5	233.5	215.2	202.5	197.9
70°	229.7	257.3	293.5	324.7	316.0	277.2	235.3	203.7	187.9	177.1	172.5
72.5°	195.4	218.1	245.7	271.2	265.3	233.1	198.2	174.3	162.1	152.2	148.4
75°	147.5	164.9	181.7	198.6	197.0	172.0	151.6	133.2	123.5	115.9	114.3
77.5°	108.9	118.6	130.1	140.1	137.3	123.0	107.0	96.5	89.3	84.2	83.4
80°	83.2	88.8	97.0	104.1	100.6	94.4	81.7	74.0	68.9	63.8	61.8
82.5°	60.3	66.0	70.9	74.7	72.0	66.3	58.4	53.2	50.1	46.7	45.8
85°	31.6	34.7	36.8	37.8	36.8	33.2	29.6	27.6	25.0	23.5	23.0
87.5°	16.3	15.8	15.4	15.7	13.9	13.3	11.1	9.2	9.4	9.6	9.4
90°	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7	24.4	24.2	23.9
95°	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5	70.5	61.6	52.6
97.5°	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8	132.5	107.2	82.0
100°	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5	179.3	142.0	104.8
102.5°	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1	273.2	265.3	257.5
105°	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9	380.0	388.2	396.3
107.5°	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4	481.9	488.5	495.1
110°	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9	547.6	553.3	559.0



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5	609.6	614.6	619.7
115°	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4	708.0	712.6	717.2
117.5°	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7	796.9	802.0	807.2
120°	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3	860.4	864.4	868.5
122.5°	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1	915.4	919.7	924.0
125°	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5	998.0	1001.6	1005.1
127.5°	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1	1074.0	1077.9	1081.9
130°	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1	1122.4	1126.8	1131.1
132.5°	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0	1170.7	1174.4	1178.1
135°	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6	1234.9	1239.3	1243.6
137.5°	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9	1298.0	1301.0	1304.1
140°	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0	1339.2	1341.4	1343.5
142.5°	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3	1374.2	1376.2	1378.1
145°	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5	1427.3	1427.0	1426.7
147.5°	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7	1474.7	1473.7	1472.6
150°	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1	1505.2	1503.3	1501.3
152.5°	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5	1531.4	1529.2	1527.1
155°	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9	1569.4	1567.0	1564.5
157.5°	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0	1599.9	1597.8	1595.8
160°	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1618.0	1616.3	1614.7
162.5°	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3	1633.6	1632.0	1630.4
165°	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3	1654.7	1653.0	1651.4
167.5°	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0	1670.3	1668.7	1667.1
170°	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8	1679.1	1677.5	1675.9
172.5°	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6	1685.0	1683.4	1681.7
175°	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2	1692.3	1690.4	1688.5
177.5°	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4	1693.9	1692.4	1690.9
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1310.7	1308.3	1299.7	1295.2	1287.8	1280.9	1276.4	1278.5	1280.1	1279.3	1278.0
5°	1273.1	1263.4	1248.6	1235.9	1226.7	1209.8	1202.7	1199.1	1196.1	1192.5	1188.9
7.5°	1228.4	1213.1	1191.9	1173.7	1156.5	1135.6	1123.7	1116.5	1109.2	1101.1	1094.0
10°	1196.6	1175.1	1152.7	1127.1	1106.7	1087.8	1071.0	1059.8	1049.6	1039.9	1032.7
12.5°	1163.1	1138.4	1110.6	1075.7	1053.2	1026.2	1023.6	1003.8	987.9	981.9	973.5
15°	1109.8	1075.1	1039.9	998.5	980.6	956.1	940.8	925.5	911.7	902.0	899.5
17.5°	1049.2	1004.3	969.3	939.6	910.3	885.2	871.1	858.8	847.5	834.5	832.8
20°	1003.1	964.3	926.0	900.0	869.9	844.3	827.0	814.7	805.0	797.4	790.7
22.5°	959.4	916.9	881.9	853.4	823.7	803.1	789.4	777.6	769.5	761.0	754.8
25°	889.3	856.1	817.8	785.6	761.1	747.9	736.6	726.4	721.3	715.7	708.6
27.5°	827.9	791.0	755.2	730.3	708.8	697.0	689.0	682.1	677.3	674.0	670.0
30°	784.6	747.3	719.3	694.8	676.9	665.2	660.1	656.0	650.4	648.3	646.3
32.5°	743.0	709.4	685.4	664.1	647.1	639.4	634.7	631.1	626.7	624.6	620.5
35°	684.0	656.0	632.5	620.7	607.0	600.3	596.8	591.6	587.6	585.5	585.0
37.5°	628.6	604.2	588.8	573.7	567.9	563.8	558.9	555.4	554.2	553.9	553.4
40°	592.7	572.8	559.0	546.7	544.2	538.0	534.0	530.9	530.9	531.4	530.9
42.5°	560.0	542.1	530.0	519.4	516.4	512.7	508.6	508.4	509.3	511.0	509.3
45°	510.5	497.7	489.0	483.9	478.3	474.7	474.2	475.8	476.3	476.8	478.3
47.5°	464.9	456.5	448.6	443.0	440.5	439.9	439.3	442.0	444.4	445.3	447.7
50°	438.0	428.3	421.7	418.1	416.0	415.0	416.0	419.1	421.1	423.7	425.2
52.5°	407.8	400.9	396.3	393.6	392.8	393.4	393.6	397.1	400.3	401.2	402.0
55°	366.0	360.9	359.9	355.3	357.3	356.8	359.4	361.4	364.5	367.5	368.1
57.5°	324.4	320.3	317.5	317.9	318.5	320.8	322.9	326.5	329.8	333.0	333.3
60°	296.6	294.5	293.0	293.0	294.0	297.1	299.7	303.2	305.3	307.3	308.8
62.5°	271.3	269.2	267.7	268.5	271.2	273.0	276.0	277.9	279.9	282.0	282.7
65°	231.2	230.2	231.8	232.8	233.3	235.8	239.4	240.9	243.0	244.0	247.6
67.5°	194.4	194.6	194.4	195.8	198.8	199.4	202.8	206.3	206.7	208.7	211.0
70°	169.5	170.5	171.5	172.5	175.1	176.1	178.7	180.2	182.2	183.8	185.3
72.5°	146.6	146.8	147.8	147.6	149.8	152.0	154.2	155.7	157.7	159.7	161.2
75°	112.8	112.8	113.8	114.3	116.9	119.5	118.9	120.0	122.0	124.0	125.1
77.5°	82.4	81.3	82.4	82.9	83.7	85.9	86.3	87.7	90.0	89.3	90.5
80°	62.8	61.3	62.8	63.3	63.3	65.9	65.9	66.9	68.4	66.9	68.4
82.5°	44.8	44.1	45.2	45.3	46.1	46.2	47.1	47.3	48.8	48.1	48.8
85°	22.5	22.0	22.5	22.0	22.5	23.0	23.0	22.5	22.5	23.5	22.0
87.5°	9.6	9.7	9.7	10.1	10.2	10.2	10.1	10.3	10.6	10.1	10.3
90°	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2	28.5	29.9	30.9
92.5°	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8	30.5	31.2	31.7
95°	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4	51.8	53.1	53.7
97.5°	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0	67.1	68.2	68.9
100°	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1	76.2	78.4	79.8
102.5°	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3	80.2	83.0	84.8
105°	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6	83.6	86.6	88.6
107.5°	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4	95.3	92.3	91.3
110°	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7	132.5	105.3	92.3



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6	242.5	143.3	94.1
115°	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0	377.2	251.3	178.6
117.5°	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1	744.6	714.2	666.8
120°	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2	906.4	909.7	893.0
122.5°	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3	960.3	962.2	959.6
125°	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5	1039.4	1041.3	1042.6
127.5°	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6	1113.4	1116.2	1117.7
130°	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1	1160.1	1163.0	1164.4
132.5°	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2	1204.7	1207.3	1208.4
135°	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6	1269.3	1272.1	1273.1
137.5°	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4	1329.1	1331.8	1332.6
140°	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2	1367.6	1370.1	1370.6
142.5°	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9	1403.2	1405.4	1405.8
145°	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9	1452.8	1454.7	1455.0
147.5°	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5	1495.9	1497.3	1497.4
150°	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3	1523.0	1524.6	1524.7
152.5°	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8	1547.4	1549.1	1549.0
155°	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8	1580.5	1582.1	1581.8
157.5°	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7	1608.5	1610.4	1610.2
160°	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9	1624.5	1626.1	1626.0
162.5°	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0	1639.8	1641.7	1641.4
165°	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2
167.5°	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8	1673.7	1675.6	1675.4
170°	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7	1681.6	1683.5	1683.2
172.5°	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5	1687.4	1689.3	1689.1
175°	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9	1693.8	1695.7	1695.3
177.5°	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6	1694.1	1695.7	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1274.0	1273.1	1273.1	1269.5	1273.1	1273.1	1274.0	1278.0	1279.3	1280.1	1278.5
5°	1181.8	1180.2	1177.7	1180.2	1177.7	1180.2	1181.8	1188.9	1192.5	1196.1	1199.1
7.5°	1090.6	1084.5	1083.6	1077.5	1083.6	1084.5	1090.6	1094.0	1101.1	1109.2	1116.5
10°	1024.0	1019.9	1019.4	1009.7	1019.4	1019.9	1024.0	1032.7	1039.9	1049.6	1059.8
12.5°	973.4	963.6	965.5	959.9	965.5	963.6	973.4	973.5	981.9	987.9	1003.8
15°	885.7	885.7	883.6	875.0	883.6	885.7	885.7	899.5	902.0	911.7	925.5
17.5°	822.7	821.7	816.8	819.2	816.8	821.7	822.7	832.8	834.5	847.5	858.8
20°	785.1	782.1	775.9	775.9	775.9	782.1	785.1	790.7	797.4	805.0	814.7
22.5°	749.6	749.4	742.9	744.9	742.9	749.4	749.6	754.8	761.0	769.5	777.6
25°	708.0	704.0	700.9	702.4	700.9	704.0	708.0	708.6	715.7	721.3	726.4
27.5°	668.6	666.4	666.2	662.0	666.2	666.4	668.6	670.0	674.0	677.3	682.1
30°	645.8	640.7	641.7	639.1	641.7	640.7	645.8	646.3	648.3	650.4	656.0
32.5°	619.6	617.8	616.8	614.6	616.8	617.8	619.6	620.5	624.6	626.7	631.1
35°	584.0	584.5	582.0	583.0	582.0	584.5	584.0	585.0	585.5	587.6	591.6
37.5°	552.9	554.5	553.3	553.6	553.3	554.5	552.9	553.4	553.9	554.2	555.4
40°	532.4	532.4	532.4	534.0	532.4	532.4	532.4	530.9	531.4	530.9	530.9
42.5°	512.8	512.0	511.2	511.1	511.2	512.0	512.8	509.3	511.0	509.3	508.4
45°	479.3	480.9	481.4	478.8	481.4	480.9	479.3	478.3	476.8	476.3	475.8
47.5°	449.0	449.2	449.0	451.3	449.0	449.2	449.0	447.7	445.3	444.4	442.0
50°	427.8	426.8	427.8	426.8	427.8	426.8	427.8	425.2	423.7	421.1	419.1
52.5°	405.3	405.5	404.9	404.7	404.9	405.5	405.3	402.0	401.2	400.3	397.1
55°	370.1	371.1	370.6	370.6	370.6	371.1	370.1	368.1	367.5	364.5	361.4
57.5°	333.7	334.6	335.3	333.0	335.3	334.6	333.7	333.3	333.0	329.8	326.5
60°	308.3	310.9	310.4	309.4	310.4	310.9	308.3	308.8	307.3	305.3	303.2
62.5°	285.1	286.0	285.9	285.7	285.9	286.0	285.1	282.7	282.0	279.9	277.9
65°	249.1	250.1	248.6	250.1	248.6	250.1	249.1	247.6	244.0	243.0	240.9
67.5°	210.4	210.7	211.9	212.6	211.9	210.7	210.4	211.0	208.7	206.7	206.3
70°	186.3	185.8	187.3	188.9	187.3	185.8	186.3	185.3	183.8	182.2	180.2
72.5°	161.0	162.1	161.6	162.7	161.6	162.1	161.0	161.2	159.7	157.7	155.7
75°	124.0	125.6	125.1	126.6	125.1	125.6	124.0	125.1	124.0	122.0	120.0
77.5°	89.6	89.8	89.6	90.5	89.6	89.8	89.6	90.5	89.3	90.0	87.7
80°	68.4	67.4	66.4	68.4	66.4	67.4	68.4	68.4	66.9	68.4	66.9
82.5°	47.6	48.2	47.2	47.2	47.2	48.2	47.6	48.8	48.1	48.8	47.3
85°	22.0	21.4	20.4	20.4	20.4	21.4	22.0	22.0	23.5	22.5	22.5
87.5°	10.4	10.1	10.2	9.9	10.2	10.1	10.4	10.3	10.1	10.6	10.3
90°	31.4	31.9	32.5	33.0	32.5	31.9	31.4	30.9	29.9	28.5	27.2
92.5°	32.0	32.4	32.7	33.0	32.7	32.4	32.0	31.7	31.2	30.5	29.8
95°	53.4	53.1	52.9	52.6	52.9	53.1	53.4	53.7	53.1	51.8	50.4
97.5°	69.2	69.6	69.9	70.2	69.9	69.6	69.2	68.9	68.2	67.1	66.0
100°	80.3	80.9	81.4	82.0	81.4	80.9	80.3	79.8	78.4	76.2	74.1
102.5°	85.5	86.3	87.1	87.8	87.1	86.3	85.5	84.8	83.0	80.2	77.3
105°	89.7	90.8	91.9	93.0	91.9	90.8	89.7	88.6	86.6	83.6	80.6
107.5°	92.4	93.5	94.6	95.7	94.6	93.5	92.4	91.3	92.3	95.3	98.4
110°	93.4	94.5	95.6	96.6	95.6	94.5	93.4	92.3	105.3	132.5	159.7



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	95.0	95.9	96.7	97.6	96.7	95.9	95.0	94.1	143.3	242.5	341.6
115°	159.0	139.5	119.9	100.3	119.9	139.5	159.0	178.6	251.3	377.2	503.0
117.5°	602.5	538.2	473.9	409.5	473.9	538.2	602.5	666.8	714.2	744.6	775.1
120°	856.3	819.6	782.9	746.2	782.9	819.6	856.3	893.0	909.7	906.4	903.2
122.5°	952.5	945.4	938.3	931.1	938.3	945.4	952.5	959.6	962.2	960.3	958.3
125°	1043.4	1044.3	1045.1	1045.9	1045.1	1044.3	1043.4	1042.6	1041.3	1039.4	1037.5
127.5°	1117.8	1118.0	1118.1	1118.3	1118.1	1118.0	1117.8	1117.7	1116.2	1113.4	1110.6
130°	1164.1	1163.9	1163.6	1163.3	1163.6	1163.9	1164.1	1164.4	1163.0	1160.1	1157.1
132.5°	1208.2	1207.9	1207.6	1207.4	1207.6	1207.9	1208.2	1208.4	1207.3	1204.7	1202.2
135°	1272.6	1272.1	1271.5	1271.0	1271.5	1272.1	1272.6	1273.1	1272.1	1269.3	1266.6
137.5°	1331.7	1330.8	1329.9	1328.9	1329.9	1330.8	1331.7	1332.6	1331.8	1329.1	1326.4
140°	1369.2	1367.9	1366.5	1365.2	1366.5	1367.9	1369.2	1370.6	1370.1	1367.6	1365.2
142.5°	1404.5	1403.1	1401.7	1400.4	1401.7	1403.1	1404.5	1405.8	1405.4	1403.2	1400.9
145°	1453.6	1452.3	1450.9	1449.6	1450.9	1452.3	1453.6	1455.0	1454.7	1452.8	1450.9
147.5°	1496.3	1495.1	1494.0	1492.9	1494.0	1495.1	1496.3	1497.4	1497.3	1495.9	1494.5
150°	1523.4	1522.0	1520.6	1519.3	1520.6	1522.0	1523.4	1524.7	1524.6	1523.0	1521.3
152.5°	1547.2	1545.4	1543.6	1541.8	1543.6	1545.4	1547.2	1549.0	1549.1	1547.4	1545.8
155°	1579.6	1577.5	1575.3	1573.1	1575.3	1577.5	1579.6	1581.8	1582.1	1580.5	1578.8
157.5°	1608.1	1606.0	1603.9	1601.7	1603.9	1606.0	1608.1	1610.2	1610.4	1608.5	1606.7
160°	1624.1	1622.2	1620.3	1618.4	1620.3	1622.2	1624.1	1626.0	1626.1	1624.5	1622.9
162.5°	1639.1	1636.7	1634.4	1632.1	1634.4	1636.7	1639.1	1641.4	1641.7	1639.8	1638.0
165°	1658.3	1656.4	1654.5	1652.6	1654.5	1656.4	1658.3	1660.2	1660.2	1658.3	1656.4
167.5°	1672.9	1670.5	1668.0	1665.6	1668.0	1670.5	1672.9	1675.4	1675.6	1673.7	1671.8
170°	1680.8	1678.3	1675.9	1673.4	1675.9	1678.3	1680.8	1683.2	1683.5	1681.6	1679.7
172.5°	1686.6	1684.2	1681.7	1679.3	1681.7	1684.2	1686.6	1689.1	1689.3	1687.4	1685.5
175°	1692.6	1689.9	1687.1	1684.4	1687.1	1689.9	1692.6	1695.3	1695.7	1693.8	1691.9
177.5°	1693.5	1691.5	1689.6	1687.6	1689.6	1691.5	1693.5	1695.4	1695.7	1694.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1276.4	1280.9	1287.8	1295.2	1299.7	1308.3	1310.7	1314.8	1318.5	1327.1	1336.0
5°	1202.7	1209.8	1226.7	1235.9	1248.6	1263.4	1273.1	1283.4	1294.6	1314.0	1331.8
7.5°	1123.7	1135.6	1156.5	1173.7	1191.9	1213.1	1228.4	1248.6	1265.4	1292.7	1318.9
10°	1071.0	1087.8	1106.7	1127.1	1152.7	1175.1	1196.6	1222.1	1242.5	1275.2	1305.8
12.5°	1023.6	1026.2	1053.2	1075.7	1110.6	1138.4	1163.1	1196.0	1216.0	1254.8	1287.0
15°	940.8	956.1	980.6	998.5	1039.9	1075.1	1109.8	1144.0	1167.0	1214.9	1257.3
17.5°	871.1	885.2	910.3	939.6	969.3	1004.3	1049.2	1085.3	1116.5	1171.4	1221.5
20°	827.0	844.3	869.9	900.0	926.0	964.3	1003.1	1044.4	1078.1	1139.9	1198.6
22.5°	789.4	803.1	823.7	853.4	881.9	916.9	959.4	1004.4	1039.8	1106.4	1165.9
25°	736.6	747.9	761.1	785.6	817.8	856.1	889.3	938.8	990.3	1052.6	1124.6
27.5°	689.0	697.0	708.8	730.3	755.2	791.0	827.9	874.9	926.7	994.3	1070.3
30°	660.1	665.2	676.9	694.8	719.3	747.3	784.6	829.5	882.6	951.0	1026.6
32.5°	634.7	639.4	647.1	664.1	685.4	709.4	743.0	787.9	838.5	905.7	989.4
35°	596.8	600.3	607.0	620.7	632.5	656.0	684.0	724.9	772.4	836.7	923.5
37.5°	558.9	563.8	567.9	573.7	588.8	604.2	628.6	663.1	709.7	774.6	857.3
40°	534.0	538.0	544.2	546.7	559.0	572.8	592.7	624.3	671.3	730.5	811.2
42.5°	508.6	512.7	516.4	519.4	530.0	542.1	560.0	587.2	628.8	686.4	766.2
45°	474.2	474.7	478.3	483.9	489.0	497.7	510.5	534.0	566.1	620.2	692.7
47.5°	439.3	439.9	440.5	443.0	448.6	456.5	464.9	484.0	512.8	556.0	626.6
50°	416.0	415.0	416.0	418.1	421.7	428.3	438.0	451.8	475.3	515.6	580.4
52.5°	393.6	393.4	392.8	393.6	396.3	400.9	407.8	419.5	440.5	477.6	534.7
55°	359.4	356.8	357.3	355.3	359.9	360.9	366.0	375.7	394.1	419.6	473.2
57.5°	322.9	320.8	318.5	317.9	317.5	320.3	324.4	332.0	346.1	368.5	412.0
60°	299.7	297.1	294.0	293.0	293.0	294.5	296.6	302.2	315.5	335.4	371.1
62.5°	276.0	273.0	271.2	268.5	267.7	269.2	271.3	275.3	284.8	303.5	334.4
65°	239.4	235.8	233.3	232.8	231.8	230.2	231.2	235.3	243.0	257.8	282.3
67.5°	202.8	199.4	198.8	195.8	194.4	194.6	194.4	197.9	202.5	215.2	233.5
70°	178.7	176.1	175.1	172.5	171.5	170.5	169.5	172.5	177.1	187.9	203.7
72.5°	154.2	152.0	149.8	147.6	147.8	146.8	146.6	148.4	152.2	162.1	174.3
75°	118.9	119.5	116.9	114.3	113.8	112.8	112.8	114.3	115.9	123.5	133.2
77.5°	86.3	85.9	83.7	82.9	82.4	81.3	82.4	83.4	84.2	89.3	96.5
80°	65.9	65.9	63.3	63.3	62.8	61.3	62.8	61.8	63.8	68.9	74.0
82.5°	47.1	46.2	46.1	45.3	45.2	44.1	44.8	45.8	46.7	50.1	53.2
85°	23.0	23.0	22.5	22.0	22.5	22.0	22.5	23.0	23.5	25.0	27.6
87.5°	10.1	10.2	10.2	10.1	9.7	9.7	9.6	9.4	9.6	9.4	9.2
90°	25.8	24.5	22.3	20.1	17.9	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.2	25.1	24.0	23.6	23.9	24.2	24.4	24.7
95°	49.1	47.7	45.8	43.9	42.0	40.1	43.6	52.6	61.6	70.5	79.5
97.5°	64.9	63.9	59.5	55.0	50.6	46.2	56.7	82.0	107.2	132.5	157.8
100°	71.9	69.7	65.1	60.5	55.9	51.2	67.6	104.8	142.0	179.3	216.5
102.5°	74.5	71.7	110.3	149.0	187.6	226.3	249.6	257.5	265.3	273.2	281.1
105°	77.6	74.6	148.8	223.0	297.3	371.5	404.5	396.3	388.2	380.0	371.9
107.5°	101.4	104.5	193.5	282.5	371.5	460.5	501.7	495.1	488.5	481.9	475.4
110°	186.9	214.1	292.6	371.2	449.8	528.3	564.7	559.0	553.3	547.6	541.9



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	440.8	539.9	559.4	578.8	598.2	617.6	624.8	619.7	614.6	609.6	604.5
115°	628.9	754.8	748.0	741.2	734.4	727.6	721.9	717.2	712.6	708.0	703.4
117.5°	805.5	836.0	831.3	826.6	821.9	817.3	812.4	807.2	802.0	796.9	791.7
120°	899.9	896.6	891.8	886.9	882.0	877.1	872.6	868.5	864.4	860.4	856.3
122.5°	956.3	954.4	949.1	943.7	938.4	933.1	928.3	924.0	919.7	915.4	911.1
125°	1035.6	1033.7	1028.5	1023.3	1018.2	1013.0	1008.6	1005.1	1001.6	998.0	994.5
127.5°	1107.9	1105.1	1101.2	1097.4	1093.5	1089.7	1085.8	1081.9	1077.9	1074.0	1070.1
130°	1154.1	1151.1	1148.1	1145.1	1142.1	1139.1	1135.5	1131.1	1126.8	1122.4	1118.1
132.5°	1199.6	1197.1	1194.1	1191.1	1188.1	1185.1	1181.8	1178.1	1174.4	1170.7	1167.0
135°	1263.9	1261.2	1258.7	1256.3	1253.8	1251.4	1248.0	1243.6	1239.3	1234.9	1230.6
137.5°	1323.8	1321.1	1318.3	1315.6	1312.8	1310.0	1307.1	1304.1	1301.0	1298.0	1294.9
140°	1362.7	1360.3	1357.3	1354.3	1351.3	1348.3	1345.7	1343.5	1341.4	1339.2	1337.0
142.5°	1398.7	1396.5	1393.0	1389.6	1386.2	1382.8	1380.1	1378.1	1376.2	1374.2	1372.3
145°	1449.0	1447.1	1442.5	1437.9	1433.3	1428.6	1426.5	1426.7	1427.0	1427.3	1427.5
147.5°	1493.1	1491.6	1487.1	1482.5	1477.9	1473.4	1471.6	1472.6	1473.7	1474.7	1475.7
150°	1519.7	1518.1	1513.7	1509.4	1505.0	1500.7	1499.4	1501.3	1503.3	1505.2	1507.1
152.5°	1544.2	1542.5	1538.4	1534.3	1530.1	1526.0	1525.0	1527.1	1529.2	1531.4	1533.5
155°	1577.2	1575.6	1572.3	1569.0	1565.8	1562.5	1562.1	1564.5	1567.0	1569.4	1571.9
157.5°	1604.8	1603.0	1600.7	1598.4	1596.1	1593.8	1593.7	1595.8	1597.8	1599.9	1602.0
160°	1621.2	1619.6	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6
162.5°	1636.1	1634.3	1632.9	1631.4	1630.0	1628.6	1628.7	1630.4	1632.0	1633.6	1635.3
165°	1654.5	1652.6	1651.8	1651.0	1650.2	1649.4	1649.8	1651.4	1653.0	1654.7	1656.3
167.5°	1669.9	1668.0	1667.3	1666.5	1665.8	1665.0	1665.4	1667.1	1668.7	1670.3	1672.0
170°	1677.8	1675.9	1675.3	1674.8	1674.2	1673.7	1674.2	1675.9	1677.5	1679.1	1680.8
172.5°	1683.6	1681.7	1681.2	1680.6	1680.1	1679.6	1680.1	1681.7	1683.4	1685.0	1686.6
175°	1690.0	1688.1	1687.6	1687.0	1686.5	1685.9	1686.6	1688.5	1690.4	1692.3	1694.2
177.5°	1691.1	1689.6	1689.3	1689.1	1688.9	1688.7	1689.3	1690.9	1692.4	1693.9	1695.4
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



TEST NUMBER: P331543

CATALOG NUMBER: S122DIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1335.2	1337.3	1343.8	1350.3	1357.7	1359.7	1363.0	1360.1	1359.3	1367.1	1372.8
5°	1339.0	1348.2	1366.1	1382.4	1396.2	1405.9	1416.1	1420.2	1427.8	1438.5	1451.8
7.5°	1334.7	1352.6	1380.7	1404.4	1430.4	1449.1	1463.7	1476.1	1491.2	1511.5	1533.7
10°	1329.8	1353.8	1388.0	1417.1	1448.7	1472.7	1492.7	1512.0	1534.5	1562.6	1591.7
12.5°	1320.8	1349.3	1392.1	1426.5	1467.1	1490.7	1517.6	1559.4	1583.5	1622.6	1663.6
15°	1302.8	1334.4	1394.1	1436.5	1482.4	1527.4	1576.9	1616.7	1656.5	1679.5	1737.2
17.5°	1275.9	1322.4	1388.5	1437.9	1496.3	1567.1	1622.7	1667.8	1713.8	1751.1	1780.0
20°	1254.3	1304.8	1380.3	1439.6	1509.0	1585.0	1648.9	1694.8	1734.6	1765.8	1783.6
22.5°	1226.9	1290.5	1364.0	1433.4	1522.1	1597.3	1664.4	1700.5	1733.8	1749.0	1755.9
25°	1183.8	1260.4	1343.6	1428.3	1528.4	1608.0	1669.3	1691.2	1700.9	1686.1	1661.6
27.5°	1137.4	1222.7	1320.0	1418.7	1524.5	1601.1	1645.0	1641.5	1625.1	1577.2	1538.9
30°	1102.6	1196.6	1301.2	1408.9	1515.1	1589.6	1615.2	1589.6	1552.4	1498.8	1444.2
32.5°	1066.3	1163.5	1281.2	1395.0	1498.0	1563.5	1569.0	1525.1	1467.4	1406.5	1338.4
35°	1011.3	1116.4	1243.5	1364.0	1461.5	1502.9	1478.4	1400.8	1332.4	1249.2	1156.2
37.5°	949.1	1065.2	1192.7	1318.6	1406.9	1417.7	1356.9	1275.2	1178.7	1080.9	971.6
40°	902.5	1025.6	1156.8	1283.9	1362.0	1350.7	1273.1	1183.3	1068.4	949.0	847.4
42.5°	860.9	983.9	1117.5	1242.2	1304.8	1274.0	1183.3	1073.0	949.6	837.1	744.1
45°	788.7	915.3	1052.1	1172.6	1208.3	1152.7	1032.7	910.2	788.7	694.8	621.3
47.5°	718.7	843.8	979.3	1085.2	1097.8	1023.0	891.9	765.8	661.4	584.9	533.0
50°	667.2	792.8	927.0	1021.5	1017.4	927.0	792.3	672.3	585.0	523.2	488.5
52.5°	621.1	739.7	868.6	954.5	932.9	834.3	705.7	599.2	527.4	479.1	447.7
55°	549.3	659.0	781.5	850.5	810.6	701.4	592.7	506.9	453.8	417.6	393.1
57.5°	478.0	580.9	685.8	728.3	684.3	583.4	492.7	430.5	390.6	363.8	347.8
60°	433.9	523.8	617.2	653.9	601.3	511.5	440.0	384.4	352.2	330.3	316.0
62.5°	389.8	470.3	558.4	578.4	530.3	454.3	391.0	344.8	318.3	298.8	285.4
65°	329.8	395.6	462.5	475.8	431.4	372.7	322.6	292.5	269.0	254.7	244.0
67.5°	270.5	323.3	370.7	381.4	342.5	301.8	265.7	239.4	223.5	211.6	202.6
70°	235.3	277.2	316.0	324.7	293.5	257.3	229.7	208.8	194.5	184.3	175.6
72.5°	198.2	233.1	265.3	271.2	245.7	218.1	195.4	179.0	166.3	159.8	151.5
75°	151.6	172.0	197.0	198.6	181.7	164.9	147.5	136.8	130.2	122.0	117.9
77.5°	107.0	123.0	137.3	140.1	130.1	118.6	108.9	100.5	94.8	91.1	87.3
80°	81.7	94.4	100.6	104.1	97.0	88.8	83.2	77.6	74.0	71.5	68.9
82.5°	58.4	66.3	72.0	74.7	70.9	66.0	60.3	57.2	54.4	52.3	51.4
85°	29.6	33.2	36.8	37.8	36.8	34.7	31.6	31.6	30.1	29.6	29.6
87.5°	11.1	13.3	13.9	15.7	15.4	15.8	16.3	16.3	16.3	16.2	16.1
90°	4.2	7.2	10.2	13.2	15.8	17.9	20.1	22.3	24.5	25.8	27.2
92.5°	24.4	24.2	23.9	23.6	24.0	25.1	26.2	27.3	28.4	29.1	29.8
95°	70.5	61.6	52.6	43.6	40.1	42.0	43.9	45.8	47.7	49.1	50.4
97.5°	132.5	107.2	82.0	56.7	46.2	50.6	55.0	59.5	63.9	64.9	66.0
100°	179.3	142.0	104.8	67.6	51.2	55.9	60.5	65.1	69.7	71.9	74.1
102.5°	273.2	265.3	257.5	249.6	226.3	187.6	149.0	110.3	71.7	74.5	77.3
105°	380.0	388.2	396.3	404.5	371.5	297.3	223.0	148.8	74.6	77.6	80.6
107.5°	481.9	488.5	495.1	501.7	460.5	371.5	282.5	193.5	104.5	101.4	98.4
110°	547.6	553.3	559.0	564.7	528.3	449.8	371.2	292.6	214.1	186.9	159.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	609.6	614.6	619.7	624.8	617.6	598.2	578.8	559.4	539.9	440.8	341.6
115°	708.0	712.6	717.2	721.9	727.6	734.4	741.2	748.0	754.8	628.9	503.0
117.5°	796.9	802.0	807.2	812.4	817.3	821.9	826.6	831.3	836.0	805.5	775.1
120°	860.4	864.4	868.5	872.6	877.1	882.0	886.9	891.8	896.6	899.9	903.2
122.5°	915.4	919.7	924.0	928.3	933.1	938.4	943.7	949.1	954.4	956.3	958.3
125°	998.0	1001.6	1005.1	1008.6	1013.0	1018.2	1023.3	1028.5	1033.7	1035.6	1037.5
127.5°	1074.0	1077.9	1081.9	1085.8	1089.7	1093.5	1097.4	1101.2	1105.1	1107.9	1110.6
130°	1122.4	1126.8	1131.1	1135.5	1139.1	1142.1	1145.1	1148.1	1151.1	1154.1	1157.1
132.5°	1170.7	1174.4	1178.1	1181.8	1185.1	1188.1	1191.1	1194.1	1197.1	1199.6	1202.2
135°	1234.9	1239.3	1243.6	1248.0	1251.4	1253.8	1256.3	1258.7	1261.2	1263.9	1266.6
137.5°	1298.0	1301.0	1304.1	1307.1	1310.0	1312.8	1315.6	1318.3	1321.1	1323.8	1326.4
140°	1339.2	1341.4	1343.5	1345.7	1348.3	1351.3	1354.3	1357.3	1360.3	1362.7	1365.2
142.5°	1374.2	1376.2	1378.1	1380.1	1382.8	1386.2	1389.6	1393.0	1396.5	1398.7	1400.9
145°	1427.3	1427.0	1426.7	1426.5	1428.6	1433.3	1437.9	1442.5	1447.1	1449.0	1450.9
147.5°	1474.7	1473.7	1472.6	1471.6	1473.4	1477.9	1482.5	1487.1	1491.6	1493.1	1494.5
150°	1505.2	1503.3	1501.3	1499.4	1500.7	1505.0	1509.4	1513.7	1518.1	1519.7	1521.3
152.5°	1531.4	1529.2	1527.1	1525.0	1526.0	1530.1	1534.3	1538.4	1542.5	1544.2	1545.8
155°	1569.4	1567.0	1564.5	1562.1	1562.5	1565.8	1569.0	1572.3	1575.6	1577.2	1578.8
157.5°	1599.9	1597.8	1595.8	1593.7	1593.8	1596.1	1598.4	1600.7	1603.0	1604.8	1606.7
160°	1618.0	1616.3	1614.7	1613.1	1613.1	1614.7	1616.3	1618.0	1619.6	1621.2	1622.9
162.5°	1633.6	1632.0	1630.4	1628.7	1628.6	1630.0	1631.4	1632.9	1634.3	1636.1	1638.0
165°	1654.7	1653.0	1651.4	1649.8	1649.4	1650.2	1651.0	1651.8	1652.6	1654.5	1656.4
167.5°	1670.3	1668.7	1667.1	1665.4	1665.0	1665.8	1666.5	1667.3	1668.0	1669.9	1671.8
170°	1679.1	1677.5	1675.9	1674.2	1673.7	1674.2	1674.8	1675.3	1675.9	1677.8	1679.7
172.5°	1685.0	1683.4	1681.7	1680.1	1679.6	1680.1	1680.6	1681.2	1681.7	1683.6	1685.5
175°	1692.3	1690.4	1688.5	1686.6	1685.9	1686.5	1687.0	1687.6	1688.1	1690.0	1691.9
177.5°	1693.9	1692.4	1690.9	1689.3	1688.7	1688.9	1689.1	1689.3	1689.6	1691.1	1692.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3	1328.3
2.5°	1377.7	1383.4	1383.4	1384.2	1390.8	1389.9	1389.5
5°	1466.1	1474.8	1475.8	1485.0	1491.1	1489.1	1483.5
7.5°	1549.5	1565.7	1577.9	1584.7	1592.8	1597.8	1595.6
10°	1615.7	1639.2	1653.5	1663.2	1674.9	1683.6	1680.5
12.5°	1675.7	1703.7	1723.3	1739.9	1741.5	1752.6	1745.0
15°	1769.3	1798.9	1802.0	1814.3	1824.0	1822.9	1823.4
17.5°	1800.3	1809.8	1811.7	1812.0	1812.1	1808.5	1800.8
20°	1789.2	1785.7	1777.0	1770.4	1758.6	1757.1	1746.9
22.5°	1737.0	1725.6	1703.9	1689.5	1671.2	1666.4	1663.6
25°	1634.1	1609.0	1574.3	1541.1	1532.0	1514.1	1519.2
27.5°	1492.9	1453.9	1416.3	1389.3	1364.9	1338.2	1345.8
30°	1393.6	1349.7	1296.6	1255.8	1229.8	1204.2	1199.6
32.5°	1275.2	1210.9	1151.6	1115.7	1075.8	1059.7	1042.0
35°	1071.0	1008.2	949.5	899.0	869.9	847.4	827.0
37.5°	887.3	815.0	767.7	726.7	705.7	692.8	696.1
40°	773.4	710.1	675.4	644.2	624.8	615.6	617.7
42.5°	681.1	633.7	605.1	583.8	570.1	565.0	563.8
45°	576.3	549.8	526.3	514.1	507.4	501.8	498.2
47.5°	504.9	483.2	470.0	462.7	456.9	451.2	451.1
50°	462.0	447.7	438.5	430.8	426.3	422.2	425.7
52.5°	429.3	416.2	407.1	400.2	398.5	394.8	394.7
55°	380.8	370.6	364.0	357.8	354.8	352.7	350.2
57.5°	336.7	327.0	320.9	317.0	311.2	309.1	308.3
60°	305.3	297.6	291.5	286.4	283.8	279.7	279.7
62.5°	276.3	268.6	262.9	259.0	254.8	253.2	253.6
65°	234.3	228.2	222.6	218.5	217.5	214.4	215.4
67.5°	195.7	191.6	185.7	183.5	181.5	179.9	178.7
70°	170.0	165.9	162.8	159.8	158.2	158.2	158.2
72.5°	148.3	143.4	141.6	137.7	138.6	137.0	135.4
75°	114.9	111.8	110.3	108.7	106.2	106.2	106.2
77.5°	84.5	83.6	81.8	80.1	79.5	79.0	79.2
80°	65.3	64.8	63.8	63.8	62.8	62.3	61.3
82.5°	50.2	48.9	48.3	47.9	47.7	47.6	47.4
85°	28.6	27.6	27.6	28.1	27.1	27.1	27.6
87.5°	16.7	17.0	16.8	16.9	17.4	17.1	17.2
90°	28.5	29.9	30.9	31.4	31.9	32.5	33.0
92.5°	30.5	31.2	31.7	32.0	32.4	32.7	33.0
95°	51.8	53.1	53.7	53.4	53.1	52.9	52.6
97.5°	67.1	68.2	68.9	69.2	69.6	69.9	70.2
100°	76.2	78.4	79.8	80.3	80.9	81.4	82.0
102.5°	80.2	83.0	84.8	85.5	86.3	87.1	87.8
105°	83.6	86.6	88.6	89.7	90.8	91.9	93.0
107.5°	95.3	92.3	91.3	92.4	93.5	94.6	95.7
110°	132.5	105.3	92.3	93.4	94.5	95.6	96.6



TEST NUMBER: P331543

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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	242.5	143.3	94.1	95.0	95.9	96.7	97.6
115°	377.2	251.3	178.6	159.0	139.5	119.9	100.3
117.5°	744.6	714.2	666.8	602.5	538.2	473.9	409.5
120°	906.4	909.7	893.0	856.3	819.6	782.9	746.2
122.5°	960.3	962.2	959.6	952.5	945.4	938.3	931.1
125°	1039.4	1041.3	1042.6	1043.4	1044.3	1045.1	1045.9
127.5°	1113.4	1116.2	1117.7	1117.8	1118.0	1118.1	1118.3
130°	1160.1	1163.0	1164.4	1164.1	1163.9	1163.6	1163.3
132.5°	1204.7	1207.3	1208.4	1208.2	1207.9	1207.6	1207.4
135°	1269.3	1272.1	1273.1	1272.6	1272.1	1271.5	1271.0
137.5°	1329.1	1331.8	1332.6	1331.7	1330.8	1329.9	1328.9
140°	1367.6	1370.1	1370.6	1369.2	1367.9	1366.5	1365.2
142.5°	1403.2	1405.4	1405.8	1404.5	1403.1	1401.7	1400.4
145°	1452.8	1454.7	1455.0	1453.6	1452.3	1450.9	1449.6
147.5°	1495.9	1497.3	1497.4	1496.3	1495.1	1494.0	1492.9
150°	1523.0	1524.6	1524.7	1523.4	1522.0	1520.6	1519.3
152.5°	1547.4	1549.1	1549.0	1547.2	1545.4	1543.6	1541.8
155°	1580.5	1582.1	1581.8	1579.6	1577.5	1575.3	1573.1
157.5°	1608.5	1610.4	1610.2	1608.1	1606.0	1603.9	1601.7
160°	1624.5	1626.1	1626.0	1624.1	1622.2	1620.3	1618.4
162.5°	1639.8	1641.7	1641.4	1639.1	1636.7	1634.4	1632.1
165°	1658.3	1660.2	1660.2	1658.3	1656.4	1654.5	1652.6
167.5°	1673.7	1675.6	1675.4	1672.9	1670.5	1668.0	1665.6
170°	1681.6	1683.5	1683.2	1680.8	1678.3	1675.9	1673.4
172.5°	1687.4	1689.3	1689.1	1686.6	1684.2	1681.7	1679.3
175°	1693.8	1695.7	1695.3	1692.6	1689.9	1687.1	1684.4
177.5°	1694.1	1695.7	1695.4	1693.5	1691.5	1689.6	1687.6
180°	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5	1690.5

(END OF REPORT)