

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: P331817

Luminaire Tested: **S122RDIW-S675D1240U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331817
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-S675D1240U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1240 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7497.3 lumens
Efficiency: N/A
Efficacy: 122.1 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

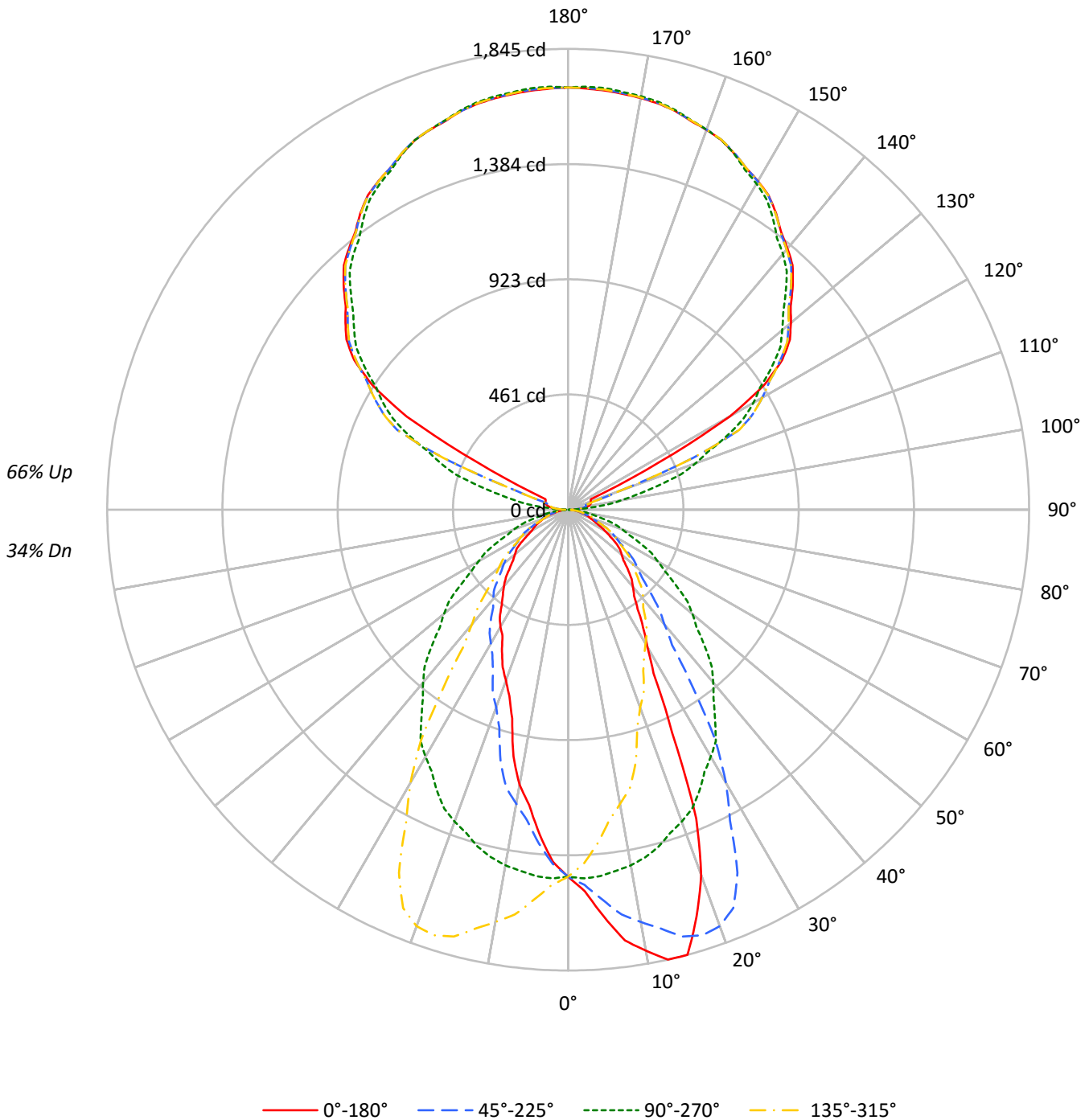
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34																				
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	37	37	36	30																				
2	87	80	74	69	78	72	68	63	58	55	52	45	43	41	33	32	31	26																				
3	79	71	64	58	72	64	58	54	52	48	44	41	38	36	30	29	27	22																				
4	73	63	55	50	66	57	51	46	46	42	38	37	34	31	27	25	24	20																				
5	67	56	49	43	60	51	45	40	42	37	33	33	30	27	25	23	21	18																				
6	62	51	43	37	56	46	40	35	38	33	29	30	27	24	23	21	19	16																				
7	57	46	38	33	52	42	35	31	34	30	26	28	24	22	21	19	17	14																				
8	53	42	34	29	48	38	32	27	32	27	23	25	22	19	20	17	16	13																				
9	50	38	31	26	45	35	29	24	29	24	21	23	20	18	18	16	14	12																				
10	46	35	28	24	42	32	26	22	27	22	19	22	18	16	17	15	13	11																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23720	23720	23720	23720
5°	26491	23869	21162	23869
10°	29391	23700	18344	23700
15°	30837	23353	14454	23353
20°	26734	22838	12507	22838
25°	17533	22133	11166	22133
30°	11801	21280	10107	21280
35°	9558	20203	9116	20203
40°	8500	19032	8435	19032
45°	7693	17657	7531	17657
50°	7001	16297	6975	16297
55°	6581	14787	6494	14787
60°	5506	13401	5438	13401
65°	4642	12168	5265	12168
70°	4291	10867	4966	10867
75°	4011	9457	4585	9457
80°	3701	7782	4082	7782
85°	3409	6150	3594	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.9
10°-20°	388.0	5.2
20°-30°	500.0	6.7
30°-40°	475.2	6.3
40°-50°	407.1	5.4
50°-60°	310.0	4.1
60°-70°	196.0	2.6
70°-80°	97.9	1.3
80°-90°	29.6	0.4
90°-100°	56.4	0.8
100°-110°	206.8	2.8
110°-120°	552.8	7.4
120°-130°	912.5	12.2
130°-140°	970.4	12.9
140°-150°	902.0	12.0
150°-160°	725.2	9.7
160°-170°	467.3	6.2
170°-180°	160.9	2.1
0°-30°	1027.3	13.7
0°-40°	1502.5	20.0
0°-60°	2219.6	29.6
0°-90°	2543.1	33.9
90°-120°	816.0	10.9
90°-150°	3600.9	48.0
90°-180°	4954.0	66.1
0°-180°	7497.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1634	1473	1306	1473	1634	161
15°	1845	1397	865	1397	1845	498
25°	984	1242	627	1242	984	467
35°	485	1025	462	1025	485	310
45°	337	773	330	773	337	261
55°	234	525	231	525	234	205
65°	122	318	138	318	122	124
75°	64	152	74	152	64	68
85°	18	33	19	33	18	21
90°	33	1	33	1	33	15
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°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1528.7	1529.9	1531.2	1528.3	1528.3	1525.8	1520.5	1516.5	1505.0	1503.4	1503.4
5°	1634.5	1633.4	1635.5	1628.9	1619.7	1617.6	1607.9	1595.2	1581.9	1567.1	1564.0
7.5°	1739.6	1738.1	1734.0	1732.9	1725.8	1710.4	1694.8	1678.2	1656.1	1634.6	1623.8
10°	1792.7	1809.6	1799.3	1781.5	1785.1	1761.1	1748.3	1726.4	1708.0	1675.8	1668.7
12.5°	1845.0	1851.6	1848.4	1838.2	1833.6	1817.0	1799.8	1780.7	1746.8	1717.9	1692.8
15°	1844.8	1854.5	1857.0	1854.0	1856.5	1855.5	1846.3	1830.5	1800.9	1769.2	1741.7
17.5°	1708.6	1715.3	1732.1	1743.4	1757.7	1787.9	1802.8	1808.6	1804.2	1786.2	1766.8
20°	1555.9	1544.6	1591.6	1615.6	1636.0	1687.0	1730.9	1747.8	1774.8	1774.3	1769.2
22.5°	1339.4	1342.1	1386.6	1415.1	1474.7	1525.7	1575.8	1639.2	1691.5	1726.1	1746.4
25°	984.2	1003.6	1048.0	1086.8	1153.1	1248.1	1334.3	1434.4	1528.8	1603.3	1674.3
27.5°	739.1	740.6	775.8	811.6	851.0	928.8	1037.4	1156.9	1291.5	1402.6	1530.4
30°	633.0	629.9	644.7	666.7	700.3	760.6	842.2	959.7	1093.9	1261.3	1410.4
32.5°	557.8	558.0	569.2	585.4	613.4	654.0	709.9	805.3	932.2	1096.8	1271.5
35°	484.9	484.4	492.6	504.3	516.1	542.1	580.4	630.4	717.7	871.3	1050.0
37.5°	432.7	434.9	438.9	446.2	459.2	473.7	496.7	530.3	592.4	683.3	833.5
40°	403.3	404.3	409.9	416.0	423.7	434.9	453.8	480.8	526.3	598.8	708.5
42.5°	376.3	377.3	381.3	387.0	393.0	404.3	419.9	443.3	480.1	536.7	627.2
45°	336.9	336.9	340.5	343.0	349.7	359.9	372.6	392.0	417.6	459.4	519.6
47.5°	299.9	300.0	302.4	306.8	311.0	318.9	331.5	347.3	365.9	398.3	449.7
50°	278.7	279.2	280.7	284.3	286.9	294.0	303.7	317.5	336.9	361.9	404.8
52.5°	261.6	261.2	263.2	264.7	266.5	271.6	278.8	291.0	308.3	330.1	365.6
55°	233.8	231.7	234.8	237.4	238.9	240.9	245.0	252.7	267.5	285.9	312.4
57.5°	199.1	198.3	200.4	202.8	207.6	213.1	216.5	221.4	229.1	242.3	268.6
60°	170.5	170.5	175.1	176.6	182.2	189.4	196.5	200.6	208.3	216.9	236.3
62.5°	145.2	145.6	147.7	149.3	152.4	161.2	171.2	180.2	187.4	195.7	208.6
65°	121.5	122.5	122.5	123.5	125.6	127.6	131.7	138.8	151.6	163.3	173.0
67.5°	103.1	103.4	103.7	104.7	105.3	107.5	109.1	112.3	115.3	126.4	138.4
70°	90.9	92.4	91.9	92.9	93.4	94.4	96.5	98.0	102.6	105.2	112.3
72.5°	79.4	80.5	80.4	81.1	82.4	82.6	84.2	85.8	88.7	90.9	94.7
75°	64.3	63.8	64.3	65.3	65.8	66.4	66.4	68.4	69.9	72.0	74.5
77.5°	49.6	50.1	50.0	50.1	50.2	51.1	51.0	52.0	53.5	54.5	55.7
80°	39.8	40.3	39.8	40.3	40.8	41.3	40.8	41.3	42.9	43.9	43.9
82.5°	30.8	30.9	31.2	31.3	31.4	31.5	32.3	32.4	33.5	33.3	33.7
85°	18.4	17.9	17.9	17.9	18.4	18.9	18.4	18.4	18.9	18.9	18.9
87.5°	13.1	13.4	13.3	13.2	13.1	12.9	12.7	12.8	12.1	12.2	11.4
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°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1504.2	1500.9	1498.1	1490.7	1487.1	1478.9	1477.7	1477.3	1466.6	1456.4	1453.6
5°	1555.9	1547.7	1535.4	1521.1	1506.3	1491.0	1480.8	1472.7	1452.2	1432.8	1421.6
7.5°	1607.9	1590.4	1569.2	1542.2	1519.6	1494.3	1475.5	1458.7	1429.7	1401.9	1383.2
10°	1646.7	1618.1	1590.1	1552.8	1523.7	1495.1	1468.6	1445.6	1412.9	1376.2	1350.1
12.5°	1670.8	1639.4	1600.7	1564.2	1526.6	1490.2	1454.7	1425.2	1386.8	1348.8	1317.9
15°	1703.4	1669.7	1622.7	1570.7	1522.2	1474.7	1433.9	1397.1	1347.1	1301.7	1263.9
17.5°	1730.0	1683.7	1633.2	1573.0	1516.9	1456.5	1403.9	1357.0	1301.3	1246.5	1202.0
20°	1738.6	1692.7	1634.5	1574.2	1507.9	1436.9	1380.3	1329.2	1269.5	1209.8	1158.7
22.5°	1733.3	1697.6	1632.8	1560.8	1492.8	1418.5	1354.5	1295.3	1229.1	1168.1	1108.9
25°	1697.3	1685.0	1623.8	1545.1	1467.6	1381.3	1307.3	1242.4	1166.9	1101.6	1037.2
27.5°	1613.2	1639.7	1601.7	1518.0	1431.7	1339.2	1256.0	1182.2	1103.8	1030.3	966.2
30°	1532.4	1593.1	1576.8	1499.2	1402.7	1311.9	1218.5	1141.4	1057.7	982.1	918.8
32.5°	1421.7	1522.1	1538.0	1473.1	1373.3	1273.5	1175.6	1098.9	1011.5	931.9	870.2
35°	1245.5	1395.6	1464.5	1423.1	1323.1	1215.4	1114.3	1025.0	937.2	858.6	797.3
37.5°	1035.3	1239.7	1354.5	1357.5	1265.6	1153.6	1043.6	954.9	865.0	787.8	721.6
40°	898.9	1120.4	1270.0	1303.2	1225.6	1104.6	993.3	903.0	815.2	739.6	663.6
42.5°	776.4	997.1	1181.0	1238.7	1177.0	1056.8	945.2	850.7	765.4	693.9	616.2
45°	627.9	820.8	1023.5	1126.6	1092.4	981.1	863.2	773.3	693.2	631.4	556.9
47.5°	529.6	665.6	861.7	1001.2	1000.6	899.0	783.0	697.0	622.7	564.8	504.4
50°	473.7	592.1	758.0	916.3	929.5	844.3	734.0	648.8	579.4	518.6	470.1
52.5°	423.5	521.1	670.2	821.9	859.7	785.9	678.9	600.2	532.8	477.0	435.4
55°	357.8	433.4	546.7	688.6	745.8	693.7	598.8	525.3	470.6	423.7	387.9
57.5°	302.7	359.4	450.3	564.6	631.1	598.4	520.0	460.3	413.6	371.1	342.9
60°	268.0	314.4	391.5	487.0	560.5	537.5	470.6	415.0	375.2	338.4	311.9
62.5°	235.3	275.2	341.3	418.8	486.2	476.7	422.0	375.4	340.5	307.0	284.5
65°	189.4	218.5	270.0	330.8	384.9	389.5	350.2	318.5	287.4	260.8	240.9
67.5°	150.8	169.8	206.1	257.3	297.8	312.3	288.3	264.1	239.4	218.9	201.6
70°	127.1	142.4	169.0	210.3	247.6	262.9	249.1	230.2	208.8	191.9	177.1
72.5°	103.0	117.9	137.5	167.8	199.8	216.3	211.5	198.0	180.6	166.6	152.6
75°	77.6	82.2	95.5	115.9	140.9	155.2	158.8	151.6	137.8	127.1	118.9
77.5°	57.4	60.1	66.5	77.2	93.5	106.3	111.5	110.7	101.2	94.9	87.3
80°	45.9	47.5	50.5	55.1	67.4	80.1	83.7	83.7	77.1	74.5	66.9
82.5°	34.9	36.0	37.9	40.4	46.1	57.3	61.3	62.1	57.9	54.5	48.5
85°	19.9	19.4	20.4	21.9	23.0	26.0	32.2	33.2	32.2	28.1	26.5
87.5°	11.0	10.9	10.5	9.6	9.4	9.2	10.6	12.1	11.1	10.4	10.2
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: P331817

CATALOG NUMBER: S122RDIW-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: P331817

CATALOG NUMBER: S122RDIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1448.3	1445.4	1440.1	1431.9	1427.0	1418.4	1412.7	1416.0	1416.8	1416.0	1415.2
5°	1409.4	1398.6	1383.8	1369.5	1356.3	1342.0	1333.8	1330.2	1323.1	1319.0	1317.0
7.5°	1362.3	1343.8	1322.9	1298.0	1276.8	1254.7	1243.4	1237.7	1223.1	1215.2	1208.2
10°	1327.2	1298.1	1277.2	1244.5	1224.6	1195.5	1175.6	1176.1	1156.2	1144.9	1136.8
12.5°	1288.4	1256.4	1221.6	1192.2	1164.5	1141.2	1117.2	1107.5	1086.3	1075.5	1053.5
15°	1224.1	1186.8	1150.1	1110.2	1082.2	1045.9	1011.2	968.8	934.6	905.0	896.9
17.5°	1153.8	1107.7	1070.8	1024.1	976.0	915.0	874.8	850.2	829.6	814.0	802.3
20°	1105.6	1058.7	1019.4	948.9	884.1	842.8	813.2	794.3	772.8	756.0	746.8
22.5°	1055.0	1006.0	952.4	873.8	823.3	790.1	763.7	742.0	727.5	714.3	706.0
25°	983.1	929.5	841.2	787.1	746.3	711.6	693.2	679.9	664.6	646.7	638.6
27.5°	907.2	821.9	758.5	718.3	679.3	656.7	640.2	620.4	606.7	598.7	590.2
30°	850.4	765.2	715.7	671.8	644.2	619.2	599.8	588.6	575.3	561.5	555.9
32.5°	787.1	719.0	671.6	635.0	607.0	585.7	570.4	552.2	542.6	534.1	522.4
35°	708.5	657.0	613.6	584.0	557.4	540.1	522.2	511.5	494.1	487.0	482.4
37.5°	641.9	597.2	564.9	533.6	512.6	493.4	482.5	465.4	457.9	448.0	438.3
40°	604.4	560.5	529.3	503.8	480.3	466.0	452.3	438.5	427.2	422.7	410.9
42.5°	566.0	530.3	499.1	471.1	455.4	440.3	422.9	412.8	401.1	393.7	386.4
45°	513.0	481.4	454.8	431.8	414.5	398.7	387.4	370.6	364.0	349.1	343.0
47.5°	466.5	437.0	411.7	389.9	372.9	362.6	346.2	333.0	322.4	313.3	305.5
50°	433.4	408.9	384.4	365.0	349.7	334.9	318.0	311.4	295.0	290.4	285.9
52.5°	403.2	379.9	357.4	338.4	323.1	308.7	293.9	285.2	274.2	269.6	266.3
55°	360.9	338.4	317.0	300.1	284.8	270.0	260.8	250.1	245.0	241.4	237.4
57.5°	318.4	298.2	281.8	264.7	249.3	237.6	226.9	220.5	215.2	210.5	205.6
60°	291.5	272.1	257.3	241.4	225.6	215.9	207.8	200.1	194.0	186.8	184.8
62.5°	262.9	245.9	232.4	216.9	203.2	194.3	186.5	179.3	171.9	161.5	158.6
65°	223.6	210.3	196.0	183.3	171.0	162.3	151.1	142.9	139.9	138.8	138.3
67.5°	188.1	175.5	163.2	150.2	139.0	131.0	125.3	124.0	121.9	121.3	119.9
70°	164.4	152.6	140.4	128.1	117.4	115.9	113.8	111.8	109.2	108.2	107.2
72.5°	143.1	131.0	118.7	108.9	104.3	102.4	100.4	98.3	96.6	95.6	94.9
75°	109.7	98.5	90.4	86.8	84.2	82.7	79.6	78.1	77.1	75.5	75.0
77.5°	79.0	72.7	68.9	66.7	64.0	62.4	60.6	59.1	58.0	57.7	56.9
80°	60.2	57.2	54.6	51.6	50.5	48.5	48.0	46.5	47.0	45.4	45.4
82.5°	46.8	42.9	40.7	39.3	38.3	36.7	36.1	35.4	35.5	34.4	34.4
85°	24.0	23.0	21.9	20.9	20.9	19.4	19.9	19.4	19.4	18.4	17.9
87.5°	10.4	10.5	10.1	10.6	11.0	11.0	11.3	11.2	11.4	11.7	11.5
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: P331817

CATALOG NUMBER: S122RDIW-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: P331817

CATALOG NUMBER: S122RDIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1410.7	1411.5	1410.3	1411.1	1410.3	1411.5	1410.7	1415.2	1416.0	1416.8	1416.0
5°	1314.4	1308.3	1307.3	1305.7	1307.3	1308.3	1314.4	1317.0	1319.0	1323.1	1330.2
7.5°	1199.5	1198.5	1196.0	1192.4	1196.0	1198.5	1199.5	1208.2	1215.2	1223.1	1237.7
10°	1125.5	1123.0	1122.5	1118.9	1122.5	1123.0	1125.5	1136.8	1144.9	1156.2	1176.1
12.5°	1039.0	1022.5	1020.8	1011.9	1020.8	1022.5	1039.0	1053.5	1075.5	1086.3	1107.5
15°	884.6	881.6	871.3	864.7	871.3	881.6	884.6	896.9	905.0	934.6	968.8
17.5°	796.4	786.4	783.2	781.8	783.2	786.4	796.4	802.3	814.0	829.6	850.2
20°	739.6	730.5	728.9	727.9	728.9	730.5	739.6	746.8	756.0	772.8	794.3
22.5°	700.4	690.8	686.9	683.8	686.9	690.8	700.4	706.0	714.3	727.5	742.0
25°	633.5	629.9	627.9	626.8	627.9	629.9	633.5	638.6	646.7	664.6	679.9
27.5°	581.1	573.2	571.7	569.1	571.7	573.2	581.1	590.2	598.7	606.7	620.4
30°	551.3	548.7	545.2	542.1	545.2	548.7	551.3	555.9	561.5	575.3	588.6
32.5°	516.2	514.0	510.9	509.4	510.9	514.0	516.2	522.4	534.1	542.6	552.2
35°	477.3	470.1	467.1	462.5	467.1	470.1	477.3	482.4	487.0	494.1	511.5
37.5°	436.1	432.4	428.1	429.6	428.1	432.4	436.1	438.3	448.0	457.9	465.4
40°	404.3	401.7	400.7	400.2	400.7	401.7	404.3	410.9	422.7	427.2	438.5
42.5°	379.0	371.9	369.3	369.2	369.3	371.9	379.0	386.4	393.7	401.1	412.8
45°	340.5	333.8	329.2	329.8	329.2	333.8	340.5	343.0	349.1	364.0	370.6
47.5°	301.1	300.9	298.0	298.9	298.0	300.9	301.1	305.5	313.3	322.4	333.0
50°	282.3	279.2	277.2	277.7	277.2	279.2	282.3	285.9	290.4	295.0	311.4
52.5°	264.3	261.7	260.0	262.2	260.0	261.7	264.3	266.3	269.6	274.2	285.2
55°	234.8	231.7	231.2	230.7	231.2	231.7	234.8	237.4	241.4	245.0	250.1
57.5°	201.8	199.8	196.7	195.4	196.7	199.8	201.8	205.6	210.5	215.2	220.5
60°	178.1	174.1	169.0	168.4	169.0	174.1	178.1	184.8	186.8	194.0	200.1
62.5°	156.5	155.7	154.7	154.6	154.7	155.7	156.5	158.6	161.5	171.9	179.3
65°	137.3	136.8	137.3	137.8	137.3	136.8	137.3	138.3	138.8	139.9	142.9
67.5°	119.7	118.7	117.8	118.2	117.8	118.7	119.7	119.9	121.3	121.9	124.0
70°	106.2	105.7	105.2	105.2	105.2	105.7	106.2	107.2	108.2	109.2	111.8
72.5°	93.1	93.0	92.5	92.1	92.5	93.0	93.1	94.9	95.6	96.6	98.3
75°	74.5	73.5	73.5	73.5	73.5	73.5	74.5	75.0	75.5	77.1	78.1
77.5°	56.8	56.3	55.7	55.3	55.7	56.3	56.8	56.9	57.7	58.0	59.1
80°	44.9	44.4	43.9	43.9	43.9	44.4	44.9	45.4	45.4	47.0	46.5
82.5°	34.3	33.8	33.7	33.3	33.7	33.8	34.3	34.4	34.4	35.5	35.4
85°	18.4	18.9	18.4	19.4	18.4	18.9	18.4	17.9	18.4	19.4	19.4
87.5°	11.6	11.3	11.8	11.5	11.8	11.3	11.6	11.5	11.7	11.4	11.2
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: P331817

CATALOG NUMBER: S122RDIW-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: P331817

CATALOG NUMBER: S122RDIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1412.7	1418.4	1427.0	1431.9	1440.1	1445.4	1448.3	1453.6	1456.4	1466.6	1477.3
5°	1333.8	1342.0	1356.3	1369.5	1383.8	1398.6	1409.4	1421.6	1432.8	1452.2	1472.7
7.5°	1243.4	1254.7	1276.8	1298.0	1322.9	1343.8	1362.3	1383.2	1401.9	1429.7	1458.7
10°	1175.6	1195.5	1224.6	1244.5	1277.2	1298.1	1327.2	1350.1	1376.2	1412.9	1445.6
12.5°	1117.2	1141.2	1164.5	1192.2	1221.6	1256.4	1288.4	1317.9	1348.8	1386.8	1425.2
15°	1011.2	1045.9	1082.2	1110.2	1150.1	1186.8	1224.1	1263.9	1301.7	1347.1	1397.1
17.5°	874.8	915.0	976.0	1024.1	1070.8	1107.7	1153.8	1202.0	1246.5	1301.3	1357.0
20°	813.2	842.8	884.1	948.9	1019.4	1058.7	1105.6	1158.7	1209.8	1269.5	1329.2
22.5°	763.7	790.1	823.3	873.8	952.4	1006.0	1055.0	1108.9	1168.1	1229.1	1295.3
25°	693.2	711.6	746.3	787.1	841.2	929.5	983.1	1037.2	1101.6	1166.9	1242.4
27.5°	640.2	656.7	679.3	718.3	758.5	821.9	907.2	966.2	1030.3	1103.8	1182.2
30°	599.8	619.2	644.2	671.8	715.7	765.2	850.4	918.8	982.1	1057.7	1141.4
32.5°	570.4	585.7	607.0	635.0	671.6	719.0	787.1	870.2	931.9	1011.5	1098.9
35°	522.2	540.1	557.4	584.0	613.6	657.0	708.5	797.3	858.6	937.2	1025.0
37.5°	482.5	493.4	512.6	533.6	564.9	597.2	641.9	721.6	787.8	865.0	954.9
40°	452.3	466.0	480.3	503.8	529.3	560.5	604.4	663.6	739.6	815.2	903.0
42.5°	422.9	440.3	455.4	471.1	499.1	530.3	566.0	616.2	693.9	765.4	850.7
45°	387.4	398.7	414.5	431.8	454.8	481.4	513.0	556.9	631.4	693.2	773.3
47.5°	346.2	362.6	372.9	389.9	411.7	437.0	466.5	504.4	564.8	622.7	697.0
50°	318.0	334.9	349.7	365.0	384.4	408.9	433.4	470.1	518.6	579.4	648.8
52.5°	293.9	308.7	323.1	338.4	357.4	379.9	403.2	435.4	477.0	532.8	600.2
55°	260.8	270.0	284.8	300.1	317.0	338.4	360.9	387.9	423.7	470.6	525.3
57.5°	226.9	237.6	249.3	264.7	281.8	298.2	318.4	342.9	371.1	413.6	460.3
60°	207.8	215.9	225.6	241.4	257.3	272.1	291.5	311.9	338.4	375.2	415.0
62.5°	186.5	194.3	203.2	216.9	232.4	245.9	262.9	284.5	307.0	340.5	375.4
65°	151.1	162.3	171.0	183.3	196.0	210.3	223.6	240.9	260.8	287.4	318.5
67.5°	125.3	131.0	139.0	150.2	163.2	175.5	188.1	201.6	218.9	239.4	264.1
70°	113.8	115.9	117.4	128.1	140.4	152.6	164.4	177.1	191.9	208.8	230.2
72.5°	100.4	102.4	104.3	108.9	118.7	131.0	143.1	152.6	166.6	180.6	198.0
75°	79.6	82.7	84.2	86.8	90.4	98.5	109.7	118.9	127.1	137.8	151.6
77.5°	60.6	62.4	64.0	66.7	68.9	72.7	79.0	87.3	94.9	101.2	110.7
80°	48.0	48.5	50.5	51.6	54.6	57.2	60.2	66.9	74.5	77.1	83.7
82.5°	36.1	36.7	38.3	39.3	40.7	42.9	46.8	48.5	54.5	57.9	62.1
85°	19.9	19.4	20.9	20.9	21.9	23.0	24.0	26.5	28.1	32.2	33.2
87.5°	11.3	11.0	11.0	10.6	10.1	10.5	10.4	10.2	10.4	11.1	12.1
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: P331817

CATALOG NUMBER: S122RDIW-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: P331817

CATALOG NUMBER: S122RDIW-S675D1240U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1477.7	1478.9	1487.1	1490.7	1498.1	1500.9	1504.2	1503.4	1503.4	1505.0	1516.5
5°	1480.8	1491.0	1506.3	1521.1	1535.4	1547.7	1555.9	1564.0	1567.1	1581.9	1595.2
7.5°	1475.5	1494.3	1519.6	1542.2	1569.2	1590.4	1607.9	1623.8	1634.6	1656.1	1678.2
10°	1468.6	1495.1	1523.7	1552.8	1590.1	1618.1	1646.7	1668.7	1675.8	1708.0	1726.4
12.5°	1454.7	1490.2	1526.6	1564.2	1600.7	1639.4	1670.8	1692.8	1717.9	1746.8	1780.7
15°	1433.9	1474.7	1522.2	1570.7	1622.7	1669.7	1703.4	1741.7	1769.2	1800.9	1830.5
17.5°	1403.9	1456.5	1516.9	1573.0	1633.2	1683.7	1730.0	1766.8	1786.2	1804.2	1808.6
20°	1380.3	1436.9	1507.9	1574.2	1634.5	1692.7	1738.6	1769.2	1774.3	1774.8	1747.8
22.5°	1354.5	1418.5	1492.8	1560.8	1632.8	1697.6	1733.3	1746.4	1726.1	1691.5	1639.2
25°	1307.3	1381.3	1467.6	1545.1	1623.8	1685.0	1697.3	1674.3	1603.3	1528.8	1434.4
27.5°	1256.0	1339.2	1431.7	1518.0	1601.7	1639.7	1613.2	1530.4	1402.6	1291.5	1156.9
30°	1218.5	1311.9	1402.7	1499.2	1576.8	1593.1	1532.4	1410.4	1261.3	1093.9	959.7
32.5°	1175.6	1273.5	1373.3	1473.1	1538.0	1522.1	1421.7	1271.5	1096.8	932.2	805.3
35°	1114.3	1215.4	1323.1	1423.1	1464.5	1395.6	1245.5	1050.0	871.3	717.7	630.4
37.5°	1043.6	1153.6	1265.6	1357.5	1354.5	1239.7	1035.3	833.5	683.3	592.4	530.3
40°	993.3	1104.6	1225.6	1303.2	1270.0	1120.4	898.9	708.5	598.8	526.3	480.8
42.5°	945.2	1056.8	1177.0	1238.7	1181.0	997.1	776.4	627.2	536.7	480.1	443.3
45°	863.2	981.1	1092.4	1126.6	1023.5	820.8	627.9	519.6	459.4	417.6	392.0
47.5°	783.0	899.0	1000.6	1001.2	861.7	665.6	529.6	449.7	398.3	365.9	347.3
50°	734.0	844.3	929.5	916.3	758.0	592.1	473.7	404.8	361.9	336.9	317.5
52.5°	678.9	785.9	859.7	821.9	670.2	521.1	423.5	365.6	330.1	308.3	291.0
55°	598.8	693.7	745.8	688.6	546.7	433.4	357.8	312.4	285.9	267.5	252.7
57.5°	520.0	598.4	631.1	564.6	450.3	359.4	302.7	268.6	242.3	229.1	221.4
60°	470.6	537.5	560.5	487.0	391.5	314.4	268.0	236.3	216.9	208.3	200.6
62.5°	422.0	476.7	486.2	418.8	341.3	275.2	235.3	208.6	195.7	187.4	180.2
65°	350.2	389.5	384.9	330.8	270.0	218.5	189.4	173.0	163.3	151.6	138.8
67.5°	288.3	312.3	297.8	257.3	206.1	169.8	150.8	138.4	126.4	115.3	112.3
70°	249.1	262.9	247.6	210.3	169.0	142.4	127.1	112.3	105.2	102.6	98.0
72.5°	211.5	216.3	199.8	167.8	137.5	117.9	103.0	94.7	90.9	88.7	85.8
75°	158.8	155.2	140.9	115.9	95.5	82.2	77.6	74.5	72.0	69.9	68.4
77.5°	111.5	106.3	93.5	77.2	66.5	60.1	57.4	55.7	54.5	53.5	52.0
80°	83.7	80.1	67.4	55.1	50.5	47.5	45.9	43.9	43.9	42.9	41.3
82.5°	61.3	57.3	46.1	40.4	37.9	36.0	34.9	33.7	33.3	33.5	32.4
85°	32.2	26.0	23.0	21.9	20.4	19.4	19.9	18.9	18.9	18.9	18.4
87.5°	10.6	9.2	9.4	9.6	10.5	10.9	11.0	11.4	12.2	12.1	12.8
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°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1520.5	1525.8	1528.3	1528.3	1531.2	1529.9	1528.7
5°	1607.9	1617.6	1619.7	1628.9	1635.5	1633.4	1634.5
7.5°	1694.8	1710.4	1725.8	1732.9	1734.0	1738.1	1739.6
10°	1748.3	1761.1	1785.1	1781.5	1799.3	1809.6	1792.7
12.5°	1799.8	1817.0	1833.6	1838.2	1848.4	1851.6	1845.0
15°	1846.3	1855.5	1856.5	1854.0	1857.0	1854.5	1844.8
17.5°	1802.8	1787.9	1757.7	1743.4	1732.1	1715.3	1708.6
20°	1730.9	1687.0	1636.0	1615.6	1591.6	1544.6	1555.9
22.5°	1575.8	1525.7	1474.7	1415.1	1386.6	1342.1	1339.4
25°	1334.3	1248.1	1153.1	1086.8	1048.0	1003.6	984.2
27.5°	1037.4	928.8	851.0	811.6	775.8	740.6	739.1
30°	842.2	760.6	700.3	666.7	644.7	629.9	633.0
32.5°	709.9	654.0	613.4	585.4	569.2	558.0	557.8
35°	580.4	542.1	516.1	504.3	492.6	484.4	484.9
37.5°	496.7	473.7	459.2	446.2	438.9	434.9	432.7
40°	453.8	434.9	423.7	416.0	409.9	404.3	403.3
42.5°	419.9	404.3	393.0	387.0	381.3	377.3	376.3
45°	372.6	359.9	349.7	343.0	340.5	336.9	336.9
47.5°	331.5	318.9	311.0	306.8	302.4	300.0	299.9
50°	303.7	294.0	286.9	284.3	280.7	279.2	278.7
52.5°	278.8	271.6	266.5	264.7	263.2	261.2	261.6
55°	245.0	240.9	238.9	237.4	234.8	231.7	233.8
57.5°	216.5	213.1	207.6	202.8	200.4	198.3	199.1
60°	196.5	189.4	182.2	176.6	175.1	170.5	170.5
62.5°	171.2	161.2	152.4	149.3	147.7	145.6	145.2
65°	131.7	127.6	125.6	123.5	122.5	122.5	121.5
67.5°	109.1	107.5	105.3	104.7	103.7	103.4	103.1
70°	96.5	94.4	93.4	92.9	91.9	92.4	90.9
72.5°	84.2	82.6	82.4	81.1	80.4	80.5	79.4
75°	66.4	66.4	65.8	65.3	64.3	63.8	64.3
77.5°	51.0	51.1	50.2	50.1	50.0	50.1	49.6
80°	40.8	41.3	40.8	40.3	39.8	40.3	39.8
82.5°	32.3	31.5	31.4	31.3	31.2	30.9	30.8
85°	18.4	18.9	18.4	17.9	17.9	17.9	18.4
87.5°	12.7	12.9	13.1	13.2	13.3	13.4	13.1
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: P331817

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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)