

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: P331549-935

Luminaire Tested: **S122DIW-S675D1440U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331549-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S675D1440U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7486.7 lumens
Efficiency: N/A
Efficacy: 109.9 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

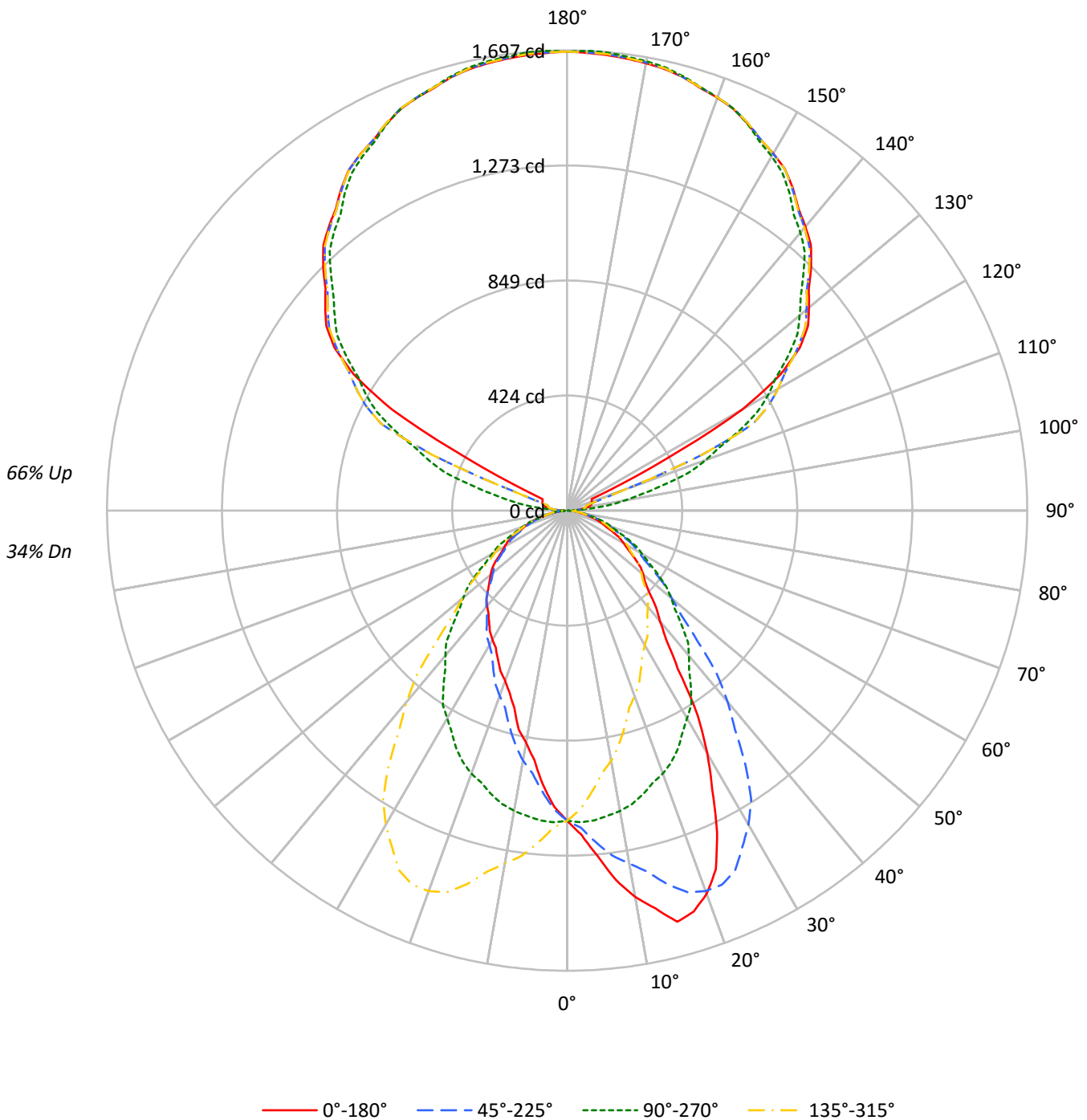
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	90	87	83	85	82	79	76	65	63	61	51	49	48	37	36	35	29								
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	31	30	25								
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21								
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	26	24	23	19								
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16								
6	61	50	42	36	55	45	38	34	37	32	28	29	26	23	22	20	18	15								
7	57	45	37	32	51	41	34	30	33	29	25	27	23	20	20	18	16	13								
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12								
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11								
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18466	18466	18466	18466
5°	20702	18585	16470	18585
10°	23722	18433	14254	18433
15°	26242	18094	12593	18094
20°	25844	17732	11478	17732
25°	23302	17250	10774	17250
30°	19257	16479	10260	16479
35°	14034	15672	9895	15672
40°	11209	14720	9691	14720
45°	9796	13618	9412	13618
50°	9206	12552	9231	12552
55°	8487	11468	8982	11468
60°	7776	10317	8603	10317
65°	7087	9287	8225	9287
70°	6430	8280	7676	8280
75°	5702	7155	6800	7155
80°	4909	5923	5477	5923
85°	4409	4409	3260	4409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.5
10°-20°	316.6	4.2
20°-30°	459.5	6.1
30°-40°	484.9	6.5
40°-50°	429.4	5.7
50°-60°	342.6	4.6
60°-70°	232.9	3.1
70°-80°	119.4	1.6
80°-90°	33.0	0.4
90°-100°	56.5	0.8
100°-110°	207.0	2.8
110°-120°	553.4	7.4
120°-130°	913.5	12.2
130°-140°	971.4	13.0
140°-150°	902.9	12.1
150°-160°	726.0	9.7
160°-170°	467.8	6.2
170°-180°	161.0	2.2
0°-30°	885.1	11.8
0°-40°	1370.0	18.3
0°-60°	2142.0	28.6
0°-90°	2527.3	33.8
90°-120°	816.8	10.9
90°-150°	3604.6	48.1
90°-180°	4959.0	66.2
0°-180°	7486.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1144	1144	1144	1144	1144	
5°	1277	1147	1016	1147	1277	128
15°	1570	1082	753	1082	1570	433
25°	1308	968	605	968	1308	591
35°	712	795	502	795	712	463
45°	429	596	412	596	429	337
55°	302	407	319	407	302	270
65°	186	243	215	243	186	184
75°	91	115	109	115	91	98
85°	24	24	18	24	24	27
90°	33	1	33	1	33	16
95°	53	80	53	80	53	49
105°	93	372	93	372	93	97
115°	100	704	100	704	100	251
125°	1047	996	1047	996	1047	906
135°	1272	1232	1272	1232	1272	981
145°	1451	1429	1451	1429	1451	907
155°	1575	1574	1575	1574	1575	727
165°	1654	1658	1654	1658	1654	467
175°	1686	1696	1686	1696	1686	161
180°	1692	1692	1692	1692	1692	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1196.4	1196.7	1197.5	1191.8	1191.1	1191.1	1186.2	1182.0	1177.1	1170.4	1171.0
5°	1277.3	1282.1	1283.8	1278.6	1270.7	1269.8	1262.3	1250.0	1238.5	1229.3	1222.8
7.5°	1373.8	1375.7	1371.4	1364.4	1358.6	1348.1	1334.1	1320.5	1301.4	1283.9	1270.9
10°	1446.9	1449.6	1442.1	1432.0	1423.7	1411.4	1391.1	1370.5	1345.4	1321.2	1301.8
12.5°	1502.4	1509.0	1499.4	1498.1	1483.8	1466.9	1442.8	1432.4	1397.1	1363.4	1342.6
15°	1569.9	1569.5	1570.5	1562.1	1551.5	1548.9	1523.4	1495.7	1446.0	1426.2	1392.0
17.5°	1550.5	1557.1	1560.2	1560.1	1559.9	1558.2	1550.1	1532.6	1507.7	1475.6	1436.0
20°	1504.1	1512.9	1514.2	1524.3	1530.0	1537.5	1540.5	1535.7	1520.4	1493.5	1459.2
22.5°	1432.4	1434.8	1438.9	1454.7	1467.1	1485.7	1495.6	1511.8	1505.9	1492.8	1464.1
25°	1308.0	1303.6	1319.1	1326.9	1355.5	1385.3	1407.0	1430.6	1451.7	1464.5	1456.1
27.5°	1158.7	1152.2	1175.2	1196.2	1219.4	1251.8	1285.4	1325.0	1358.0	1399.2	1413.3
30°	1032.9	1036.8	1058.9	1081.2	1116.4	1162.1	1199.9	1243.5	1290.5	1336.6	1368.6
32.5°	897.2	912.4	926.3	960.6	991.5	1042.6	1097.9	1152.4	1211.0	1263.4	1313.1
35°	712.0	729.6	749.0	774.0	817.5	868.1	922.1	995.5	1075.6	1147.2	1206.1
37.5°	599.3	596.5	607.6	625.7	661.0	701.7	764.0	836.5	930.7	1014.9	1097.9
40°	531.8	530.0	538.0	554.7	581.5	611.4	665.9	729.6	817.1	919.9	1018.8
42.5°	485.4	486.5	490.9	502.7	521.0	545.6	586.4	640.7	720.7	817.6	923.9
45°	429.0	432.0	436.9	442.6	453.1	473.4	496.2	534.9	598.2	679.1	783.7
47.5°	388.4	388.5	393.4	398.4	404.7	416.0	434.7	458.9	503.6	569.5	659.4
50°	366.5	363.5	367.0	370.9	377.5	385.5	397.8	420.6	450.5	503.7	578.9
52.5°	339.8	339.9	343.1	344.6	350.5	358.3	369.6	385.5	412.5	454.1	515.9
55°	301.5	303.7	305.5	308.1	313.4	319.1	327.9	338.5	359.6	390.7	436.4
57.5°	265.4	266.1	267.9	272.9	276.3	281.5	289.9	299.5	313.2	336.3	370.7
60°	240.8	240.8	244.4	246.6	251.0	256.2	262.9	272.1	284.4	303.2	331.0
62.5°	218.3	218.0	219.4	223.0	226.4	231.3	237.9	245.7	257.3	274.1	296.9
65°	185.5	184.6	187.3	188.1	191.7	196.5	201.7	210.1	219.3	231.6	251.8
67.5°	153.9	154.9	156.3	158.0	159.9	165.0	168.5	174.4	182.2	192.4	206.1
70°	136.2	136.2	136.2	137.6	140.2	142.8	146.4	151.2	158.7	167.5	179.8
72.5°	116.6	118.0	119.3	118.6	121.9	123.5	127.7	130.4	137.6	143.2	154.1
75°	91.4	91.4	91.4	93.6	95.0	96.3	98.9	101.5	105.0	112.1	117.8
77.5°	68.2	68.0	68.4	69.0	70.4	72.0	72.8	75.2	78.4	81.6	86.5
80°	52.8	53.6	54.1	54.9	54.9	55.8	56.2	59.3	61.6	63.7	66.8
82.5°	40.8	41.0	41.1	41.2	41.6	42.1	43.2	44.3	45.0	46.8	49.2
85°	23.8	23.3	23.3	24.2	23.8	23.8	24.6	25.5	25.5	25.9	27.2
87.5°	15.8	15.7	15.9	15.4	15.3	15.5	15.2	14.6	14.6	14.7	14.6
90°	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2	25.8	24.5	22.3
92.5°	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8	29.1	28.4	27.3
95°	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5	49.1	47.8	45.9
97.5°	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1	65.0	63.9	59.5
100°	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1	72.0	69.8	65.2
102.5°	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4	74.6	71.7	110.5
105°	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7	77.7	74.7	149.0
107.5°	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5	101.5	104.6	193.6
110°	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9	187.1	214.3	292.9



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1173.5	1170.7	1169.0	1162.6	1157.0	1151.4	1149.6	1150.3	1142.6	1135.2	1132.0
5°	1219.3	1210.5	1202.1	1190.2	1176.2	1160.8	1152.9	1146.7	1131.4	1114.7	1105.0
7.5°	1260.2	1247.7	1231.6	1209.2	1188.8	1164.6	1149.2	1135.6	1113.0	1089.5	1075.0
10°	1285.2	1268.0	1247.3	1220.1	1195.1	1165.6	1145.0	1124.3	1097.9	1069.8	1052.2
12.5°	1306.7	1283.5	1263.2	1228.2	1198.6	1161.7	1137.2	1108.1	1080.4	1047.0	1029.8
15°	1357.7	1315.1	1276.3	1236.8	1200.3	1148.9	1121.7	1082.5	1046.0	1004.8	985.0
17.5°	1397.1	1349.3	1288.3	1238.0	1195.5	1138.6	1098.5	1051.7	1008.6	961.3	934.4
20°	1419.7	1364.7	1299.2	1239.5	1188.4	1123.4	1080.0	1032.0	981.5	928.2	899.2
22.5°	1433.0	1375.3	1310.5	1234.2	1174.4	1111.1	1056.4	1003.8	952.6	895.3	864.8
25°	1437.3	1384.5	1316.0	1229.8	1156.8	1085.2	1019.3	968.3	906.3	852.6	808.3
27.5°	1416.3	1378.5	1312.6	1221.5	1136.5	1052.7	979.3	921.5	856.1	797.9	753.3
30°	1390.7	1368.6	1304.5	1213.1	1120.3	1030.3	949.3	883.9	818.8	759.9	714.2
32.5°	1350.9	1346.2	1289.8	1201.1	1103.1	1001.8	918.1	851.9	779.8	721.9	678.4
35°	1272.9	1294.0	1258.4	1174.4	1070.7	961.2	870.7	795.1	720.4	665.0	624.1
37.5°	1168.3	1220.6	1211.3	1135.3	1026.9	917.1	817.2	738.1	666.9	611.1	570.9
40°	1096.1	1163.0	1172.7	1105.4	996.0	883.0	777.1	698.4	629.0	578.0	537.5
42.5°	1018.8	1096.9	1123.4	1069.5	962.2	847.1	741.2	659.7	591.0	541.4	505.6
45°	889.2	992.5	1040.3	1009.6	905.9	788.1	679.1	596.4	534.0	487.4	459.8
47.5°	767.9	880.8	945.2	934.4	843.2	726.5	618.8	539.5	478.7	441.5	416.7
50°	682.2	798.1	876.0	879.5	798.1	682.6	574.5	499.7	443.9	409.2	389.0
52.5°	607.6	718.3	803.2	821.8	747.9	636.9	534.8	460.4	411.2	379.3	361.2
55°	510.3	603.9	697.9	732.3	672.9	567.4	472.9	407.4	361.3	339.3	323.5
57.5°	424.2	502.3	589.2	627.1	590.5	500.2	411.6	354.7	317.3	298.0	285.9
60°	378.8	440.4	517.7	563.0	531.4	451.0	373.6	319.5	288.8	271.6	260.2
62.5°	336.7	391.2	456.6	498.0	480.8	404.9	335.6	287.9	261.3	245.2	237.0
65°	277.8	320.9	371.4	409.7	398.2	340.6	284.0	243.1	222.0	209.2	202.6
67.5°	228.8	259.8	294.9	328.4	319.2	278.4	232.9	201.0	185.3	174.4	170.4
70°	197.8	221.5	252.7	279.6	272.1	238.7	202.6	175.4	161.8	152.5	148.5
72.5°	168.2	187.8	211.5	233.5	228.4	200.7	170.7	150.1	139.6	131.0	127.8
75°	127.0	142.0	156.4	171.0	169.6	148.1	130.5	114.7	106.3	99.8	98.4
77.5°	93.8	102.1	112.0	120.6	118.2	105.9	92.1	83.1	76.9	72.5	71.8
80°	71.6	76.5	83.5	89.6	86.6	81.3	70.3	63.7	59.3	54.9	53.2
82.5°	51.9	56.8	61.0	64.3	62.0	57.1	50.3	45.8	43.1	40.2	39.4
85°	27.2	29.9	31.7	32.5	31.7	28.6	25.5	23.8	21.5	20.2	19.8
87.5°	14.6	14.1	13.7	13.9	12.2	11.6	9.6	8.0	8.3	8.4	8.4
90°	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2	4.2	7.2	10.2
92.5°	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7	24.5	24.2	23.9
95°	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6	70.6	61.6	52.7
97.5°	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0	132.7	107.4	82.1
100°	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7	179.4	142.2	104.9
102.5°	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4	273.5	265.6	257.7
105°	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3	380.4	388.6	396.7
107.5°	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9	482.4	489.0	495.6
110°	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5	548.2	553.9	559.6



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1128.5	1126.4	1119.0	1115.2	1108.8	1102.9	1099.0	1100.8	1102.2	1101.5	1100.4
5°	1096.1	1087.8	1075.0	1064.1	1056.2	1041.6	1035.5	1032.4	1029.8	1026.7	1023.6
7.5°	1057.7	1044.5	1026.2	1010.6	995.7	977.8	967.5	961.3	955.0	948.0	941.9
10°	1030.3	1011.8	992.5	970.4	952.9	936.6	922.1	912.5	903.7	895.4	889.2
12.5°	1001.4	980.2	956.2	926.2	906.8	883.6	881.3	864.3	850.6	845.4	838.2
15°	955.5	925.7	895.4	859.7	844.3	823.2	810.0	796.9	785.0	776.6	774.5
17.5°	903.4	864.7	834.6	809.0	783.8	762.2	750.0	739.4	729.7	718.5	717.0
20°	863.7	830.3	797.3	774.9	749.0	726.9	712.0	701.5	693.1	686.6	680.8
22.5°	826.0	789.5	759.3	734.8	709.2	691.5	679.7	669.5	662.5	655.2	649.9
25°	765.7	737.1	704.1	676.4	655.3	643.9	634.2	625.4	621.0	616.2	610.1
27.5°	712.8	681.1	650.2	628.8	610.3	600.1	593.2	587.3	583.2	580.3	576.9
30°	675.5	643.4	619.3	598.2	582.8	572.7	568.3	564.8	560.0	558.2	556.5
32.5°	639.7	610.8	590.1	571.8	557.2	550.5	546.5	543.4	539.6	537.8	534.3
35°	588.9	564.8	544.6	534.4	522.6	516.9	513.8	509.4	505.9	504.1	503.7
37.5°	541.2	520.2	507.0	494.0	489.0	485.4	481.2	478.2	477.2	476.9	476.5
40°	510.3	493.2	481.3	470.7	468.6	463.2	459.8	457.1	457.1	457.5	457.1
42.5°	482.2	466.7	456.3	447.2	444.6	441.4	437.9	437.7	438.5	440.0	438.5
45°	439.5	428.5	421.0	416.6	411.8	408.7	408.3	409.7	410.1	410.5	411.8
47.5°	400.3	393.0	386.2	381.4	379.3	378.8	378.2	380.6	382.6	383.4	385.5
50°	377.1	368.8	363.1	360.0	358.2	357.3	358.2	360.8	362.6	364.8	366.1
52.5°	351.1	345.2	341.2	338.9	338.2	338.7	338.9	341.9	344.7	345.4	346.1
55°	315.1	310.7	309.9	305.9	307.6	307.2	309.4	311.2	313.8	316.4	316.9
57.5°	279.3	275.8	273.4	273.7	274.2	276.2	278.0	281.1	284.0	286.7	287.0
60°	255.4	253.6	252.3	252.3	253.1	255.8	258.0	261.1	262.9	264.6	265.9
62.5°	233.6	231.8	230.5	231.2	233.5	235.1	237.6	239.3	241.0	242.8	243.4
65°	199.1	198.2	199.6	200.4	200.9	203.0	206.1	207.4	209.2	210.1	213.2
67.5°	167.4	167.6	167.4	168.6	171.2	171.7	174.6	177.6	178.0	179.7	181.7
70°	145.9	146.8	147.7	148.5	150.8	151.6	153.9	155.2	156.9	158.3	159.5
72.5°	126.2	126.4	127.3	127.1	129.0	130.9	132.8	134.1	135.8	137.5	138.8
75°	97.1	97.1	98.0	98.4	100.7	102.9	102.4	103.3	105.0	106.8	107.7
77.5°	70.9	70.0	70.9	71.4	72.1	74.0	74.3	75.5	77.5	76.9	77.9
80°	54.1	52.8	54.1	54.5	54.5	56.7	56.7	57.6	58.9	57.6	58.9
82.5°	38.6	38.0	38.9	39.0	39.7	39.8	40.6	40.7	42.0	41.4	42.0
85°	19.4	18.9	19.4	18.9	19.4	19.8	19.8	19.4	19.4	20.2	18.9
87.5°	8.6	8.8	8.9	9.3	9.4	9.5	9.4	9.6	9.9	9.5	9.7
90°	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2	28.6	30.0	30.9
92.5°	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8	30.6	31.3	31.8
95°	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5	51.8	53.2	53.7
97.5°	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1	67.2	68.3	69.0
100°	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1	76.4	78.5	79.9
102.5°	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4	80.2	83.1	84.9
105°	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7	83.7	86.7	88.7
107.5°	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5	95.4	92.4	91.4
110°	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9	132.7	105.5	92.4



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1096.9	1096.1	1096.1	1093.0	1096.1	1096.1	1096.9	1100.4	1101.5	1102.2	1100.8
5°	1017.5	1016.2	1014.0	1016.2	1014.0	1016.2	1017.5	1023.6	1026.7	1029.8	1032.4
7.5°	939.0	933.8	933.0	927.7	933.0	933.8	939.0	941.9	948.0	955.0	961.3
10°	881.7	878.1	877.7	869.4	877.7	878.1	881.7	889.2	895.4	903.7	912.5
12.5°	838.1	829.7	831.3	826.5	831.3	829.7	838.1	838.2	845.4	850.6	864.3
15°	762.6	762.6	760.8	753.4	760.8	762.6	762.6	774.5	776.6	785.0	796.9
17.5°	708.3	707.5	703.3	705.3	703.3	707.5	708.3	717.0	718.5	729.7	739.4
20°	676.0	673.4	668.0	668.0	668.0	673.4	676.0	680.8	686.6	693.1	701.5
22.5°	645.4	645.2	639.6	641.4	639.6	645.2	645.4	649.9	655.2	662.5	669.5
25°	609.6	606.1	603.5	604.8	603.5	606.1	609.6	610.1	616.2	621.0	625.4
27.5°	575.7	573.8	573.6	570.0	573.6	573.8	575.7	576.9	580.3	583.2	587.3
30°	556.0	551.6	552.5	550.3	552.5	551.6	556.0	556.5	558.2	560.0	564.8
32.5°	533.5	531.9	531.1	529.2	531.1	531.9	533.5	534.3	537.8	539.6	543.4
35°	502.8	503.3	501.1	502.0	501.1	503.3	502.8	503.7	504.1	505.9	509.4
37.5°	476.0	477.4	476.4	476.6	476.4	477.4	476.0	476.5	476.9	477.2	478.2
40°	458.4	458.4	458.4	459.8	458.4	458.4	458.4	457.1	457.5	457.1	457.1
42.5°	441.5	440.8	440.1	440.1	440.1	440.8	441.5	438.5	440.0	438.5	437.7
45°	412.7	414.1	414.5	412.2	414.5	414.1	412.7	411.8	410.5	410.1	409.7
47.5°	386.6	386.8	386.6	388.6	386.6	386.8	386.6	385.5	383.4	382.6	380.6
50°	368.3	367.5	368.3	367.5	368.3	367.5	368.3	366.1	364.8	362.6	360.8
52.5°	349.0	349.1	348.6	348.4	348.6	349.1	349.0	346.1	345.4	344.7	341.9
55°	318.7	319.5	319.1	319.1	319.1	319.5	318.7	316.9	316.4	313.8	311.2
57.5°	287.3	288.1	288.7	286.7	288.7	288.1	287.3	287.0	286.7	284.0	281.1
60°	265.4	267.7	267.3	266.4	267.3	267.7	265.4	265.9	264.6	262.9	261.1
62.5°	245.5	246.2	246.2	246.0	246.2	246.2	245.5	243.4	242.8	241.0	239.3
65°	214.5	215.3	214.0	215.3	214.0	215.3	214.5	213.2	210.1	209.2	207.4
67.5°	181.2	181.4	182.4	183.0	182.4	181.4	181.2	181.7	179.7	178.0	177.6
70°	160.4	160.0	161.3	162.6	161.3	160.0	160.4	159.5	158.3	156.9	155.2
72.5°	138.6	139.6	139.1	140.1	139.1	139.6	138.6	138.8	137.5	135.8	134.1
75°	106.8	108.1	107.7	109.0	107.7	108.1	106.8	107.7	106.8	105.0	103.3
77.5°	77.1	77.3	77.1	77.9	77.1	77.3	77.1	77.9	76.9	77.5	75.5
80°	58.9	58.0	57.2	58.9	57.2	58.0	58.9	58.9	57.6	58.9	57.6
82.5°	41.0	41.5	40.6	40.6	40.6	41.5	41.0	42.0	41.4	42.0	40.7
85°	18.9	18.4	17.6	17.6	17.6	18.4	18.9	18.9	20.2	19.4	19.4
87.5°	9.8	9.6	9.6	9.4	9.6	9.6	9.8	9.7	9.5	9.9	9.6
90°	31.4	31.9	32.5	33.1	32.5	31.9	31.4	30.9	30.0	28.6	27.2
92.5°	32.1	32.4	32.7	33.1	32.7	32.4	32.1	31.8	31.3	30.6	29.8
95°	53.5	53.2	53.0	52.7	53.0	53.2	53.5	53.7	53.2	51.8	50.5
97.5°	69.3	69.7	70.0	70.3	70.0	69.7	69.3	69.0	68.3	67.2	66.1
100°	80.4	80.9	81.5	82.1	81.5	80.9	80.4	79.9	78.5	76.4	74.1
102.5°	85.7	86.4	87.1	87.9	87.1	86.4	85.7	84.9	83.1	80.2	77.4
105°	89.8	90.9	92.0	93.1	92.0	90.9	89.8	88.7	86.7	83.7	80.7
107.5°	92.5	93.6	94.7	95.7	94.7	93.6	92.5	91.4	92.4	95.4	98.5
110°	93.5	94.5	95.7	96.8	95.7	94.5	93.5	92.4	105.5	132.7	159.9



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1099.0	1102.9	1108.8	1115.2	1119.0	1126.4	1128.5	1132.0	1135.2	1142.6	1150.3
5°	1035.5	1041.6	1056.2	1064.1	1075.0	1087.8	1096.1	1105.0	1114.7	1131.4	1146.7
7.5°	967.5	977.8	995.7	1010.6	1026.2	1044.5	1057.7	1075.0	1089.5	1113.0	1135.6
10°	922.1	936.6	952.9	970.4	992.5	1011.8	1030.3	1052.2	1069.8	1097.9	1124.3
12.5°	881.3	883.6	906.8	926.2	956.2	980.2	1001.4	1029.8	1047.0	1080.4	1108.1
15°	810.0	823.2	844.3	859.7	895.4	925.7	955.5	985.0	1004.8	1046.0	1082.5
17.5°	750.0	762.2	783.8	809.0	834.6	864.7	903.4	934.4	961.3	1008.6	1051.7
20°	712.0	726.9	749.0	774.9	797.3	830.3	863.7	899.2	928.2	981.5	1032.0
22.5°	679.7	691.5	709.2	734.8	759.3	789.5	826.0	864.8	895.3	952.6	1003.8
25°	634.2	643.9	655.3	676.4	704.1	737.1	765.7	808.3	852.6	906.3	968.3
27.5°	593.2	600.1	610.3	628.8	650.2	681.1	712.8	753.3	797.9	856.1	921.5
30°	568.3	572.7	582.8	598.2	619.3	643.4	675.5	714.2	759.9	818.8	883.9
32.5°	546.5	550.5	557.2	571.8	590.1	610.8	639.7	678.4	721.9	779.8	851.9
35°	513.8	516.9	522.6	534.4	544.6	564.8	588.9	624.1	665.0	720.4	795.1
37.5°	481.2	485.4	489.0	494.0	507.0	520.2	541.2	570.9	611.1	666.9	738.1
40°	459.8	463.2	468.6	470.7	481.3	493.2	510.3	537.5	578.0	629.0	698.4
42.5°	437.9	441.4	444.6	447.2	456.3	466.7	482.2	505.6	541.4	591.0	659.7
45°	408.3	408.7	411.8	416.6	421.0	428.5	439.5	459.8	487.4	534.0	596.4
47.5°	378.2	378.8	379.3	381.4	386.2	393.0	400.3	416.7	441.5	478.7	539.5
50°	358.2	357.3	358.2	360.0	363.1	368.8	377.1	389.0	409.2	443.9	499.7
52.5°	338.9	338.7	338.2	338.9	341.2	345.2	351.1	361.2	379.3	411.2	460.4
55°	309.4	307.2	307.6	305.9	309.9	310.7	315.1	323.5	339.3	361.3	407.4
57.5°	278.0	276.2	274.2	273.7	273.4	275.8	279.3	285.9	298.0	317.3	354.7
60°	258.0	255.8	253.1	252.3	252.3	253.6	255.4	260.2	271.6	288.8	319.5
62.5°	237.6	235.1	233.5	231.2	230.5	231.8	233.6	237.0	245.2	261.3	287.9
65°	206.1	203.0	200.9	200.4	199.6	198.2	199.1	202.6	209.2	222.0	243.1
67.5°	174.6	171.7	171.2	168.6	167.4	167.6	167.4	170.4	174.4	185.3	201.0
70°	153.9	151.6	150.8	148.5	147.7	146.8	145.9	148.5	152.5	161.8	175.4
72.5°	132.8	130.9	129.0	127.1	127.3	126.4	126.2	127.8	131.0	139.6	150.1
75°	102.4	102.9	100.7	98.4	98.0	97.1	97.1	98.4	99.8	106.3	114.7
77.5°	74.3	74.0	72.1	71.4	70.9	70.0	70.9	71.8	72.5	76.9	83.1
80°	56.7	56.7	54.5	54.5	54.1	52.8	54.1	53.2	54.9	59.3	63.7
82.5°	40.6	39.8	39.7	39.0	38.9	38.0	38.6	39.4	40.2	43.1	45.8
85°	19.8	19.8	19.4	18.9	19.4	18.9	19.4	19.8	20.2	21.5	23.8
87.5°	9.4	9.5	9.4	9.3	8.9	8.8	8.6	8.4	8.4	8.3	8.0
90°	25.8	24.5	22.3	20.1	18.0	15.8	13.2	10.2	7.2	4.2	1.2
92.5°	29.1	28.4	27.3	26.3	25.1	24.0	23.7	23.9	24.2	24.5	24.7
95°	49.1	47.8	45.9	43.9	42.0	40.1	43.7	52.7	61.6	70.6	79.6
97.5°	65.0	63.9	59.5	55.1	50.7	46.3	56.7	82.1	107.4	132.7	158.0
100°	72.0	69.8	65.2	60.5	55.9	51.3	67.6	104.9	142.2	179.4	216.7
102.5°	74.6	71.7	110.5	149.1	187.9	226.5	249.9	257.7	265.6	273.5	281.4
105°	77.7	74.7	149.0	223.3	297.6	371.9	404.9	396.7	388.6	380.4	372.3
107.5°	101.5	104.6	193.6	282.8	371.9	461.0	502.2	495.6	489.0	482.4	475.9
110°	187.1	214.3	292.9	371.6	450.2	528.8	565.3	559.6	553.9	548.2	542.5



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P331549-935

CATALOG NUMBER: S122DIW-S675D1440U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1149.6	1151.4	1157.0	1162.6	1169.0	1170.7	1173.5	1171.0	1170.4	1177.1	1182.0
5°	1152.9	1160.8	1176.2	1190.2	1202.1	1210.5	1219.3	1222.8	1229.3	1238.5	1250.0
7.5°	1149.2	1164.6	1188.8	1209.2	1231.6	1247.7	1260.2	1270.9	1283.9	1301.4	1320.5
10°	1145.0	1165.6	1195.1	1220.1	1247.3	1268.0	1285.2	1301.8	1321.2	1345.4	1370.5
12.5°	1137.2	1161.7	1198.6	1228.2	1263.2	1283.5	1306.7	1342.6	1363.4	1397.1	1432.4
15°	1121.7	1148.9	1200.3	1236.8	1276.3	1315.1	1357.7	1392.0	1426.2	1446.0	1495.7
17.5°	1098.5	1138.6	1195.5	1238.0	1288.3	1349.3	1397.1	1436.0	1475.6	1507.7	1532.6
20°	1080.0	1123.4	1188.4	1239.5	1299.2	1364.7	1419.7	1459.2	1493.5	1520.4	1535.7
22.5°	1056.4	1111.1	1174.4	1234.2	1310.5	1375.3	1433.0	1464.1	1492.8	1505.9	1511.8
25°	1019.3	1085.2	1156.8	1229.8	1316.0	1384.5	1437.3	1456.1	1464.5	1451.7	1430.6
27.5°	979.3	1052.7	1136.5	1221.5	1312.6	1378.5	1416.3	1413.3	1399.2	1358.0	1325.0
30°	949.3	1030.3	1120.3	1213.1	1304.5	1368.6	1390.7	1368.6	1336.6	1290.5	1243.5
32.5°	918.1	1001.8	1103.1	1201.1	1289.8	1346.2	1350.9	1313.1	1263.4	1211.0	1152.4
35°	870.7	961.2	1070.7	1174.4	1258.4	1294.0	1272.9	1206.1	1147.2	1075.6	995.5
37.5°	817.2	917.1	1026.9	1135.3	1211.3	1220.6	1168.3	1097.9	1014.9	930.7	836.5
40°	777.1	883.0	996.0	1105.4	1172.7	1163.0	1096.1	1018.8	919.9	817.1	729.6
42.5°	741.2	847.1	962.2	1069.5	1123.4	1096.9	1018.8	923.9	817.6	720.7	640.7
45°	679.1	788.1	905.9	1009.6	1040.3	992.5	889.2	783.7	679.1	598.2	534.9
47.5°	618.8	726.5	843.2	934.4	945.2	880.8	767.9	659.4	569.5	503.6	458.9
50°	574.5	682.6	798.1	879.5	876.0	798.1	682.2	578.9	503.7	450.5	420.6
52.5°	534.8	636.9	747.9	821.8	803.2	718.3	607.6	515.9	454.1	412.5	385.5
55°	472.9	567.4	672.9	732.3	697.9	603.9	510.3	436.4	390.7	359.6	338.5
57.5°	411.6	500.2	590.5	627.1	589.2	502.3	424.2	370.7	336.3	313.2	299.5
60°	373.6	451.0	531.4	563.0	517.7	440.4	378.8	331.0	303.2	284.4	272.1
62.5°	335.6	404.9	480.8	498.0	456.6	391.2	336.7	296.9	274.1	257.3	245.7
65°	284.0	340.6	398.2	409.7	371.4	320.9	277.8	251.8	231.6	219.3	210.1
67.5°	232.9	278.4	319.2	328.4	294.9	259.8	228.8	206.1	192.4	182.2	174.4
70°	202.6	238.7	272.1	279.6	252.7	221.5	197.8	179.8	167.5	158.7	151.2
72.5°	170.7	200.7	228.4	233.5	211.5	187.8	168.2	154.1	143.2	137.6	130.4
75°	130.5	148.1	169.6	171.0	156.4	142.0	127.0	117.8	112.1	105.0	101.5
77.5°	92.1	105.9	118.2	120.6	112.0	102.1	93.8	86.5	81.6	78.4	75.2
80°	70.3	81.3	86.6	89.6	83.5	76.5	71.6	66.8	63.7	61.6	59.3
82.5°	50.3	57.1	62.0	64.3	61.0	56.8	51.9	49.2	46.8	45.0	44.3
85°	25.5	28.6	31.7	32.5	31.7	29.9	27.2	27.2	25.9	25.5	25.5
87.5°	9.6	11.6	12.2	13.9	13.7	14.1	14.6	14.6	14.7	14.6	14.6
90°	4.2	7.2	10.2	13.2	15.8	18.0	20.1	22.3	24.5	25.8	27.2
92.5°	24.5	24.2	23.9	23.7	24.0	25.1	26.3	27.3	28.4	29.1	29.8
95°	70.6	61.6	52.7	43.7	40.1	42.0	43.9	45.9	47.8	49.1	50.5
97.5°	132.7	107.4	82.1	56.7	46.3	50.7	55.1	59.5	63.9	65.0	66.1
100°	179.4	142.2	104.9	67.6	51.3	55.9	60.5	65.2	69.8	72.0	74.1
102.5°	273.5	265.6	257.7	249.9	226.5	187.9	149.1	110.5	71.7	74.6	77.4
105°	380.4	388.6	396.7	404.9	371.9	297.6	223.3	149.0	74.7	77.7	80.7
107.5°	482.4	489.0	495.6	502.2	461.0	371.9	282.8	193.6	104.6	101.5	98.5
110°	548.2	553.9	559.6	565.3	528.8	450.2	371.6	292.9	214.3	187.1	159.9



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CANDELA DISTRIBUTION (continued):

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



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1186.2	1191.1	1191.1	1191.8	1197.5	1196.7	1196.4
5°	1262.3	1269.8	1270.7	1278.6	1283.8	1282.1	1277.3
7.5°	1334.1	1348.1	1358.6	1364.4	1371.4	1375.7	1373.8
10°	1391.1	1411.4	1423.7	1432.0	1442.1	1449.6	1446.9
12.5°	1442.8	1466.9	1483.8	1498.1	1499.4	1509.0	1502.4
15°	1523.4	1548.9	1551.5	1562.1	1570.5	1569.5	1569.9
17.5°	1550.1	1558.2	1559.9	1560.1	1560.2	1557.1	1550.5
20°	1540.5	1537.5	1530.0	1524.3	1514.2	1512.9	1504.1
22.5°	1495.6	1485.7	1467.1	1454.7	1438.9	1434.8	1432.4
25°	1407.0	1385.3	1355.5	1326.9	1319.1	1303.6	1308.0
27.5°	1285.4	1251.8	1219.4	1196.2	1175.2	1152.2	1158.7
30°	1199.9	1162.1	1116.4	1081.2	1058.9	1036.8	1032.9
32.5°	1097.9	1042.6	991.5	960.6	926.3	912.4	897.2
35°	922.1	868.1	817.5	774.0	749.0	729.6	712.0
37.5°	764.0	701.7	661.0	625.7	607.6	596.5	599.3
40°	665.9	611.4	581.5	554.7	538.0	530.0	531.8
42.5°	586.4	545.6	521.0	502.7	490.9	486.5	485.4
45°	496.2	473.4	453.1	442.6	436.9	432.0	429.0
47.5°	434.7	416.0	404.7	398.4	393.4	388.5	388.4
50°	397.8	385.5	377.5	370.9	367.0	363.5	366.5
52.5°	369.6	358.3	350.5	344.6	343.1	339.9	339.8
55°	327.9	319.1	313.4	308.1	305.5	303.7	301.5
57.5°	289.9	281.5	276.3	272.9	267.9	266.1	265.4
60°	262.9	256.2	251.0	246.6	244.4	240.8	240.8
62.5°	237.9	231.3	226.4	223.0	219.4	218.0	218.3
65°	201.7	196.5	191.7	188.1	187.3	184.6	185.5
67.5°	168.5	165.0	159.9	158.0	156.3	154.9	153.9
70°	146.4	142.8	140.2	137.6	136.2	136.2	136.2
72.5°	127.7	123.5	121.9	118.6	119.3	118.0	116.6
75°	98.9	96.3	95.0	93.6	91.4	91.4	91.4
77.5°	72.8	72.0	70.4	69.0	68.4	68.0	68.2
80°	56.2	55.8	54.9	54.9	54.1	53.6	52.8
82.5°	43.2	42.1	41.6	41.2	41.1	41.0	40.8
85°	24.6	23.8	23.8	24.2	23.3	23.3	23.8
87.5°	15.2	15.5	15.3	15.4	15.9	15.7	15.8
90°	28.6	30.0	30.9	31.4	31.9	32.5	33.1
92.5°	30.6	31.3	31.8	32.1	32.4	32.7	33.1
95°	51.8	53.2	53.7	53.5	53.2	53.0	52.7
97.5°	67.2	68.3	69.0	69.3	69.7	70.0	70.3
100°	76.4	78.5	79.9	80.4	80.9	81.5	82.1
102.5°	80.2	83.1	84.9	85.7	86.4	87.1	87.9
105°	83.7	86.7	88.7	89.8	90.9	92.0	93.1
107.5°	95.4	92.4	91.4	92.5	93.6	94.7	95.7
110°	132.7	105.5	92.4	93.5	94.5	95.7	96.8



TEST NUMBER: P331549-935

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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)