

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: P331549-927

Luminaire Tested: **S122DIW-S675D1440U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331549-927
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-S675D1440U927-4F0-1E-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: 6888.3 lumens
Efficiency: N/A
Efficacy: 101.1 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

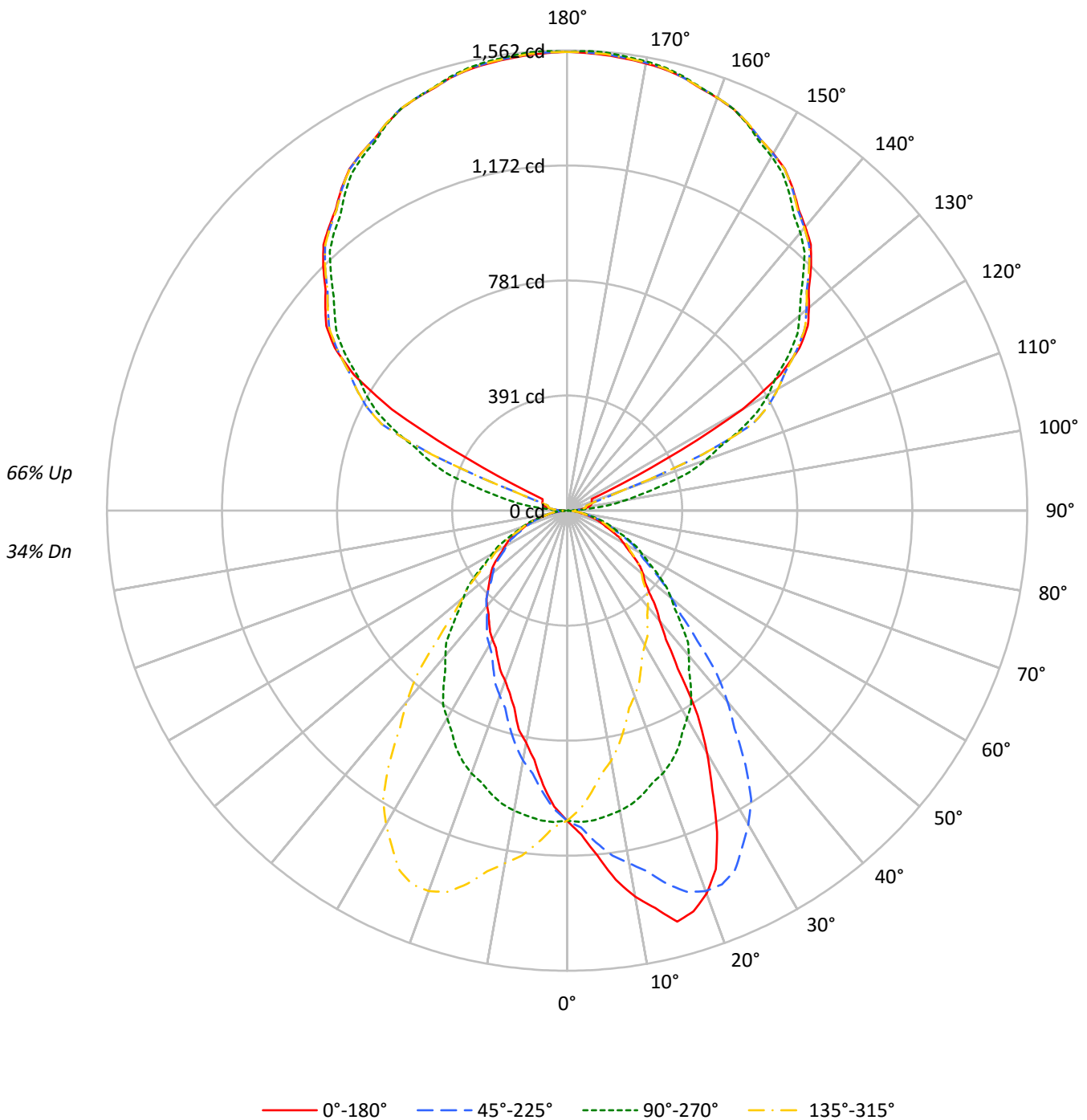
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	16990	16990	16990	16990
5°	19047	17099	15152	17099
10°	21827	16959	13114	16959
15°	24145	16649	11587	16649
20°	23778	16314	10562	16314
25°	21440	15871	9912	15871
30°	17717	15163	9439	15163
35°	12912	14420	9102	14420
40°	10313	13544	8916	13544
45°	9012	12529	8661	12529
50°	8470	11549	8493	11549
55°	7809	10553	8265	10553
60°	7156	9494	7915	9494
65°	6518	8542	7568	8542
70°	5915	7619	7062	7619
75°	5246	6581	6257	6581
80°	4519	5449	5040	5449
85°	4057	4057	3001	4057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.5
10°-20°	291.3	4.2
20°-30°	422.8	6.1
30°-40°	446.2	6.5
40°-50°	395.0	5.7
50°-60°	315.3	4.6
60°-70°	214.3	3.1
70°-80°	109.9	1.6
80°-90°	30.3	0.4
90°-100°	51.9	0.8
100°-110°	190.5	2.8
110°-120°	509.1	7.4
120°-130°	840.4	12.2
130°-140°	893.8	13.0
140°-150°	830.7	12.1
150°-160°	667.9	9.7
160°-170°	430.4	6.2
170°-180°	148.2	2.2
0°-30°	814.3	11.8
0°-40°	1260.5	18.3
0°-60°	1970.8	28.6
0°-90°	2325.3	33.8
90°-120°	751.5	10.9
90°-150°	3316.5	48.1
90°-180°	4563.0	66.2
0°-180°	6888.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1052	1052	1052	1052	1052	
5°	1175	1055	935	1055	1175	117
15°	1444	996	693	996	1444	399
25°	1204	891	556	891	1204	544
35°	655	732	462	732	655	426
45°	395	549	379	549	395	310
55°	277	375	294	375	277	249
65°	171	224	198	224	171	170
75°	84	106	100	106	84	90
85°	22	22	16	22	22	25
90°	30	1	30	1	30	14
95°	48	73	48	73	48	45
105°	86	342	86	342	86	89
115°	92	648	92	648	92	231
125°	963	916	963	916	963	834
135°	1171	1134	1171	1134	1171	902
145°	1335	1315	1335	1315	1335	835
155°	1449	1448	1449	1448	1449	669
165°	1522	1526	1522	1526	1522	430
175°	1551	1560	1551	1560	1551	148
180°	1557	1557	1557	1557	1557	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1100.7	1101.1	1101.8	1096.5	1095.9	1095.9	1091.4	1087.5	1083.0	1076.8	1077.4
5°	1175.2	1179.6	1181.2	1176.4	1169.1	1168.3	1161.4	1150.1	1139.6	1131.1	1125.1
7.5°	1264.0	1265.7	1261.8	1255.4	1250.0	1240.3	1227.5	1215.0	1197.4	1181.3	1169.3
10°	1331.3	1333.7	1326.8	1317.6	1309.9	1298.5	1279.9	1260.9	1237.9	1215.6	1197.8
12.5°	1382.4	1388.4	1379.6	1378.3	1365.2	1349.6	1327.5	1317.9	1285.4	1254.4	1235.3
15°	1444.5	1444.1	1444.9	1437.3	1427.5	1425.1	1401.6	1376.2	1330.5	1312.2	1280.7
17.5°	1426.6	1432.7	1435.5	1435.4	1435.2	1433.7	1426.2	1410.1	1387.2	1357.6	1321.2
20°	1383.9	1391.9	1393.1	1402.5	1407.7	1414.6	1417.4	1412.9	1398.8	1374.1	1342.6
22.5°	1317.9	1320.1	1323.9	1338.4	1349.8	1367.0	1376.0	1391.0	1385.5	1373.5	1347.1
25°	1203.5	1199.4	1213.6	1220.8	1247.1	1274.6	1294.5	1316.3	1335.7	1347.4	1339.7
27.5°	1066.1	1060.1	1081.2	1100.6	1122.0	1151.8	1182.6	1219.1	1249.4	1287.4	1300.4
30°	950.3	953.9	974.2	994.8	1027.1	1069.2	1104.0	1144.1	1187.3	1229.8	1259.3
32.5°	825.5	839.5	852.2	883.8	912.3	959.3	1010.2	1060.3	1114.2	1162.4	1208.2
35°	655.1	671.3	689.1	712.2	752.2	798.7	848.4	915.9	989.6	1055.5	1109.7
37.5°	551.4	548.8	559.0	575.7	608.2	645.6	702.9	769.7	856.3	933.7	1010.2
40°	489.3	487.7	495.0	510.3	535.0	562.5	612.7	671.3	751.8	846.4	937.4
42.5°	446.6	447.6	451.6	462.5	479.3	502.0	539.6	589.5	663.1	752.3	850.0
45°	394.7	397.5	402.0	407.3	416.9	435.5	456.5	492.2	550.4	624.8	721.0
47.5°	357.4	357.4	361.9	366.5	372.3	382.8	400.0	422.2	463.3	523.9	606.7
50°	337.2	334.5	337.7	341.3	347.4	354.7	366.0	387.0	414.5	463.4	532.6
52.5°	312.7	312.8	315.7	317.0	322.5	329.7	340.1	354.7	379.5	417.8	474.7
55°	277.4	279.4	281.1	283.4	288.4	293.6	301.7	311.4	330.8	359.5	401.6
57.5°	244.2	244.9	246.5	251.1	254.2	259.0	266.7	275.5	288.2	309.4	341.0
60°	221.6	221.6	224.8	226.9	230.9	235.8	241.9	250.3	261.7	279.0	304.5
62.5°	200.9	200.6	201.8	205.2	208.3	212.8	218.9	226.1	236.7	252.2	273.1
65°	170.6	169.8	172.3	173.1	176.3	180.8	185.6	193.3	201.8	213.1	231.7
67.5°	141.6	142.5	143.8	145.4	147.1	151.8	155.0	160.5	167.6	177.1	189.6
70°	125.3	125.3	125.3	126.6	129.0	131.4	134.7	139.1	146.0	154.1	165.4
72.5°	107.3	108.5	109.8	109.1	112.2	113.6	117.5	120.0	126.6	131.7	141.8
75°	84.1	84.1	84.1	86.1	87.4	88.6	91.0	93.4	96.6	103.1	108.4
77.5°	62.7	62.6	63.0	63.5	64.8	66.2	66.9	69.2	72.2	75.1	79.6
80°	48.6	49.4	49.7	50.5	50.5	51.3	51.7	54.6	56.6	58.6	61.5
82.5°	37.5	37.7	37.8	37.9	38.3	38.7	39.8	40.7	41.4	43.1	45.3
85°	21.9	21.5	21.5	22.3	21.9	21.9	22.7	23.4	23.4	23.8	25.0
87.5°	14.5	14.4	14.7	14.2	14.1	14.3	14.0	13.4	13.5	13.5	13.5
90°	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0	23.8	22.5	20.5
92.5°	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4	26.8	26.1	25.1
95°	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4	45.2	44.0	42.2
97.5°	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8	59.8	58.8	54.7
100°	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2	66.2	64.2	60.0
102.5°	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2	68.6	66.0	101.6
105°	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2	71.5	68.8	137.0
107.5°	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6	93.4	96.3	178.2
110°	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1	172.1	197.2	269.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7	406.0	497.3	515.2
115°	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3	579.2	695.1	688.9
117.5°	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9	742.0	770.0	765.6
120°	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9	828.9	825.9	821.3
122.5°	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6	880.8	879.0	874.1
125°	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5	953.8	952.0	947.3
127.5°	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9	1020.4	1017.9	1014.3
130°	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7	1063.0	1060.2	1057.4
132.5°	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2	1104.9	1102.6	1099.8
135°	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6	1164.1	1161.6	1159.4
137.5°	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7	1219.2	1216.8	1214.3
140°	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4	1255.1	1252.8	1250.1
142.5°	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3	1288.2	1286.2	1283.0
145°	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3	1334.6	1332.8	1328.6
147.5°	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5	1375.1	1373.9	1369.7
150°	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2	1399.7	1398.2	1394.2
152.5°	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7	1422.2	1420.7	1416.9
155°	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1	1452.6	1451.1	1448.2
157.5°	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8	1478.1	1476.4	1474.3
160°	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7	1493.2	1491.7	1490.2
162.5°	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6	1507.0	1505.2	1504.0
165°	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1	1521.4
167.5°	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8	1538.1	1536.4	1535.6
170°	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1	1545.3	1543.6	1543.0
172.5°	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4	1550.7	1549.0	1548.5
175°	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3	1556.6	1554.8	1554.3
177.5°	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9	1557.6	1556.2	1555.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1079.7	1077.1	1075.5	1069.7	1064.5	1059.4	1057.7	1058.4	1051.3	1044.5	1041.6
5°	1121.8	1113.7	1106.0	1095.1	1082.2	1068.0	1060.7	1055.0	1040.9	1025.6	1016.7
7.5°	1159.5	1148.0	1133.1	1112.5	1093.8	1071.5	1057.3	1044.8	1024.1	1002.4	989.1
10°	1182.5	1166.6	1147.6	1122.6	1099.5	1072.5	1053.4	1034.4	1010.2	984.3	968.1
12.5°	1202.2	1180.9	1162.2	1130.0	1102.8	1068.9	1046.3	1019.5	994.0	963.3	947.5
15°	1249.2	1210.0	1174.3	1138.0	1104.4	1057.1	1032.1	996.0	962.4	924.5	906.3
17.5°	1285.5	1241.4	1185.3	1139.1	1099.9	1047.6	1010.7	967.7	928.0	884.5	859.8
20°	1306.2	1255.6	1195.4	1140.4	1093.4	1033.6	993.6	949.5	903.0	854.1	827.4
22.5°	1318.5	1265.4	1205.8	1135.5	1080.5	1022.3	971.9	923.6	876.5	823.7	795.7
25°	1322.4	1273.8	1210.8	1131.5	1064.4	998.5	937.8	890.9	833.9	784.5	743.7
27.5°	1303.1	1268.4	1207.7	1123.9	1045.7	968.6	901.0	847.9	787.7	734.1	693.1
30°	1279.5	1259.3	1200.2	1116.1	1030.8	947.9	873.5	813.3	753.4	699.2	657.1
32.5°	1242.9	1238.6	1186.7	1105.1	1014.9	921.7	844.7	783.8	717.5	664.2	624.2
35°	1171.2	1190.6	1157.8	1080.5	985.1	884.4	801.1	731.6	662.8	611.9	574.3
37.5°	1074.9	1123.1	1114.5	1044.6	944.8	843.8	751.9	679.1	613.6	562.2	525.3
40°	1008.5	1070.0	1079.0	1017.1	916.4	812.5	714.9	642.6	578.7	531.8	494.6
42.5°	937.4	1009.2	1033.6	984.0	885.3	779.4	682.0	607.0	543.8	498.1	465.2
45°	818.1	913.1	957.2	928.9	833.5	725.1	624.8	548.7	491.3	448.5	423.0
47.5°	706.5	810.4	869.7	859.7	775.8	668.4	569.3	496.4	440.5	406.2	383.4
50°	627.6	734.4	806.0	809.2	734.4	628.0	528.5	459.8	408.4	376.5	357.9
52.5°	559.0	660.9	739.0	756.1	688.1	586.0	492.0	423.6	378.3	349.0	332.3
55°	469.5	555.6	642.1	673.8	619.1	522.0	435.1	374.9	332.4	312.2	297.6
57.5°	390.3	462.2	542.1	576.9	543.3	460.2	378.7	326.4	291.9	274.2	263.0
60°	348.6	405.2	476.3	518.0	488.9	414.9	343.7	294.0	265.7	249.9	239.4
62.5°	309.7	359.9	420.1	458.2	442.4	372.6	308.8	264.9	240.4	225.6	218.1
65°	255.6	295.2	341.7	376.9	366.4	313.4	261.3	223.6	204.2	192.5	186.4
67.5°	210.5	239.1	271.3	302.1	293.7	256.1	214.3	185.0	170.5	160.4	156.8
70°	182.0	203.8	232.5	257.2	250.3	219.6	186.4	161.4	148.9	140.3	136.7
72.5°	154.8	172.8	194.6	214.8	210.2	184.7	157.0	138.1	128.4	120.6	117.6
75°	116.8	130.6	143.9	157.3	156.1	136.3	120.1	105.5	97.8	91.8	90.5
77.5°	86.3	94.0	103.1	111.0	108.8	97.4	84.8	76.4	70.7	66.7	66.1
80°	65.9	70.3	76.8	82.5	79.7	74.8	64.7	58.6	54.6	50.5	49.0
82.5°	47.8	52.3	56.2	59.2	57.0	52.5	46.3	42.1	39.7	37.0	36.3
85°	25.0	27.5	29.2	29.9	29.2	26.3	23.4	21.9	19.8	18.6	18.2
87.5°	13.4	13.0	12.6	12.8	11.2	10.7	8.9	7.4	7.6	7.8	7.7
90°	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1	3.9	6.7	9.4
92.5°	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7	22.5	22.3	22.0
95°	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2	65.0	56.7	48.5
97.5°	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4	122.1	98.8	75.5
100°	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4	165.1	130.8	96.5
102.5°	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9	251.7	244.4	237.1
105°	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5	350.0	357.5	365.0
107.5°	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8	443.9	450.0	456.0
110°	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2	504.4	509.6	514.9



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8	561.4	566.1	570.8
115°	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8	652.1	656.3	660.6
117.5°	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2	734.0	738.7	743.5
120°	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7	792.4	796.1	799.9
122.5°	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2	843.1	847.1	851.0
125°	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0	919.2	922.5	925.7
127.5°	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6	989.2	992.8	996.4
130°	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8	1033.8	1037.8	1041.8
132.5°	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8	1078.2	1081.6	1085.1
135°	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5	1137.4	1141.5	1145.4
137.5°	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7	1195.5	1198.3	1201.1
140°	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4	1233.4	1235.5	1237.5
142.5°	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9	1265.7	1267.5	1269.3
145°	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9	1314.5	1314.3	1314.1
147.5°	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2	1358.3	1357.3	1356.4
150°	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1	1386.3	1384.6	1382.8
152.5°	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4	1410.5	1408.5	1406.5
155°	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8	1445.5	1443.3	1441.0
157.5°	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5	1473.6	1471.7	1469.8
160°	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1490.2	1488.7	1487.2
162.5°	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1	1504.7	1503.2	1501.7
165°	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5	1524.0	1522.5	1521.0
167.5°	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9	1538.4	1536.9	1535.4
170°	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1	1546.6	1545.1	1543.6
172.5°	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5	1552.0	1550.5	1549.0
175°	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4	1558.7	1557.0	1555.2
177.5°	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5	1560.2	1558.8	1557.4
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1038.3	1036.4	1029.6	1026.0	1020.2	1014.7	1011.1	1012.8	1014.1	1013.4	1012.4
5°	1008.5	1000.8	989.1	979.1	971.8	958.4	952.8	949.9	947.5	944.7	941.8
7.5°	973.1	961.0	944.2	929.8	916.2	899.6	890.2	884.5	878.7	872.3	866.6
10°	947.9	930.9	913.1	892.9	876.7	861.7	848.4	839.6	831.5	823.8	818.1
12.5°	921.4	901.8	879.8	852.2	834.3	812.9	810.9	795.2	782.6	777.8	771.2
15°	879.2	851.7	823.8	791.0	776.8	757.4	745.3	733.2	722.2	714.5	712.6
17.5°	831.2	795.6	767.9	744.3	721.1	701.2	690.1	680.3	671.4	661.1	659.7
20°	794.6	763.9	733.6	713.0	689.1	668.8	655.1	645.4	637.7	631.7	626.4
22.5°	760.0	726.4	698.6	676.0	652.5	636.2	625.3	616.0	609.6	602.9	597.9
25°	704.5	678.2	647.8	622.3	602.9	592.5	583.5	575.4	571.4	567.0	561.3
27.5°	655.8	626.6	598.3	578.5	561.5	552.2	545.8	540.3	536.5	533.9	530.8
30°	621.5	592.0	569.8	550.4	536.2	527.0	522.9	519.7	515.2	513.6	512.0
32.5°	588.6	562.0	543.0	526.1	512.6	506.5	502.8	499.9	496.5	494.8	491.5
35°	541.9	519.7	501.1	491.7	480.9	475.5	472.8	468.7	465.5	463.8	463.4
37.5°	498.0	478.6	466.4	454.5	449.9	446.6	442.8	440.0	439.0	438.8	438.4
40°	469.5	453.8	442.8	433.1	431.1	426.2	423.0	420.6	420.6	421.0	420.6
42.5°	443.6	429.4	419.9	411.5	409.1	406.2	402.9	402.7	403.5	404.8	403.5
45°	404.4	394.3	387.4	383.3	378.9	376.0	375.7	376.9	377.3	377.7	378.9
47.5°	368.3	361.6	355.4	350.9	349.0	348.5	348.0	350.1	352.0	352.8	354.7
50°	347.0	339.3	334.1	331.2	329.5	328.8	329.5	332.0	333.6	335.6	336.8
52.5°	323.1	317.6	313.9	311.8	311.2	311.6	311.8	314.6	317.1	317.8	318.5
55°	289.9	285.9	285.1	281.5	283.0	282.7	284.7	286.3	288.8	291.1	291.6
57.5°	257.0	253.7	251.5	251.8	252.3	254.1	255.8	258.6	261.3	263.8	264.0
60°	235.0	233.3	232.1	232.1	232.9	235.4	237.4	240.2	241.9	243.4	244.6
62.5°	214.9	213.3	212.1	212.7	214.8	216.3	218.6	220.1	221.7	223.4	223.9
65°	183.2	182.4	183.6	184.4	184.8	186.8	189.6	190.8	192.5	193.3	196.1
67.5°	154.0	154.2	154.0	155.1	157.5	158.0	160.7	163.4	163.7	165.3	167.2
70°	134.3	135.1	135.9	136.7	138.7	139.5	141.6	142.8	144.3	145.6	146.8
72.5°	116.1	116.3	117.1	116.9	118.7	120.4	122.2	123.3	124.9	126.5	127.7
75°	89.4	89.4	90.2	90.5	92.6	94.7	94.2	95.1	96.6	98.2	99.1
77.5°	65.3	64.4	65.3	65.7	66.3	68.0	68.4	69.5	71.3	70.7	71.7
80°	49.7	48.6	49.7	50.1	50.1	52.2	52.2	53.0	54.2	53.0	54.2
82.5°	35.5	34.9	35.8	35.9	36.5	36.6	37.3	37.5	38.7	38.1	38.7
85°	17.8	17.4	17.8	17.4	17.8	18.2	18.2	17.8	17.8	18.6	17.4
87.5°	7.9	8.1	8.2	8.6	8.6	8.7	8.6	8.9	9.1	8.7	9.0
90°	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0	26.3	27.6	28.4
92.5°	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4	28.1	28.8	29.2
95°	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4	47.7	49.0	49.4
97.5°	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8	61.8	62.8	63.5
100°	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2	70.3	72.2	73.5
102.5°	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2	73.8	76.4	78.1
105°	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2	77.0	79.8	81.6
107.5°	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6	87.8	85.0	84.1
110°	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1	122.1	97.0	85.0



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7	223.3	132.0	86.7
115°	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3	347.4	231.5	164.5
117.5°	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9	685.9	657.8	614.2
120°	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9	834.9	837.9	822.4
122.5°	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6	884.5	886.2	883.8
125°	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5	957.3	959.0	960.3
127.5°	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9	1025.5	1028.0	1029.4
130°	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7	1068.5	1071.2	1072.5
132.5°	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2	1109.6	1112.0	1113.0
135°	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6	1169.1	1171.6	1172.6
137.5°	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7	1224.2	1226.6	1227.4
140°	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4	1259.6	1261.9	1262.3
142.5°	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3	1292.4	1294.4	1294.8
145°	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3	1338.1	1339.9	1340.1
147.5°	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5	1377.8	1379.1	1379.2
150°	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2	1402.7	1404.2	1404.3
152.5°	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7	1425.2	1426.7	1426.6
155°	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1	1455.6	1457.1	1456.9
157.5°	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8	1481.5	1483.2	1483.0
160°	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7	1496.2	1497.7	1497.6
162.5°	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6	1510.4	1512.0	1511.8
165°	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1
167.5°	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8	1541.6	1543.3	1543.1
170°	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1	1548.8	1550.5	1550.3
172.5°	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4	1554.2	1555.9	1555.7
175°	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3	1560.0	1561.8	1561.5
177.5°	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9	1560.4	1561.8	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1009.2	1008.5	1008.5	1005.7	1008.5	1008.5	1009.2	1012.4	1013.4	1014.1	1012.8
5°	936.2	934.9	933.0	934.9	933.0	934.9	936.2	941.8	944.7	947.5	949.9
7.5°	864.0	859.1	858.4	853.6	858.4	859.1	864.0	866.6	872.3	878.7	884.5
10°	811.2	807.9	807.6	799.9	807.6	807.9	811.2	818.1	823.8	831.5	839.6
12.5°	771.1	763.3	764.9	760.4	764.9	763.3	771.1	771.2	777.8	782.6	795.2
15°	701.6	701.6	700.0	693.2	700.0	701.6	701.6	712.6	714.5	722.2	733.2
17.5°	651.7	650.9	647.1	649.0	647.1	650.9	651.7	659.7	661.1	671.4	680.3
20°	621.9	619.6	614.7	614.7	614.7	619.6	621.9	626.4	631.7	637.7	645.4
22.5°	593.8	593.7	588.5	590.1	588.5	593.7	593.8	597.9	602.9	609.6	616.0
25°	560.9	557.7	555.2	556.4	555.2	557.7	560.9	561.3	567.0	571.4	575.4
27.5°	529.7	527.9	527.8	524.4	527.8	527.9	529.7	530.8	533.9	536.5	540.3
30°	511.6	507.6	508.3	506.3	508.3	507.6	511.6	512.0	513.6	515.2	519.7
32.5°	490.8	489.4	488.6	486.9	488.6	489.4	490.8	491.5	494.8	496.5	499.9
35°	462.6	463.0	461.1	461.8	461.1	463.0	462.6	463.4	463.8	465.5	468.7
37.5°	438.0	439.3	438.3	438.6	438.3	439.3	438.0	438.4	438.8	439.0	440.0
40°	421.8	421.8	421.8	423.0	421.8	421.8	421.8	420.6	421.0	420.6	420.6
42.5°	406.2	405.6	405.0	404.9	405.0	405.6	406.2	403.5	404.8	403.5	402.7
45°	379.7	381.0	381.4	379.3	381.4	381.0	379.7	378.9	377.7	377.3	376.9
47.5°	355.7	355.8	355.7	357.5	355.7	355.8	355.7	354.7	352.8	352.0	350.1
50°	338.9	338.1	338.9	338.1	338.9	338.1	338.9	336.8	335.6	333.6	332.0
52.5°	321.1	321.2	320.8	320.6	320.8	321.2	321.1	318.5	317.8	317.1	314.6
55°	293.2	294.0	293.6	293.6	293.6	294.0	293.2	291.6	291.1	288.8	286.3
57.5°	264.4	265.1	265.6	263.8	265.6	265.1	264.4	264.0	263.8	261.3	258.6
60°	244.2	246.3	245.9	245.1	245.9	246.3	244.2	244.6	243.4	241.9	240.2
62.5°	225.9	226.6	226.5	226.3	226.5	226.6	225.9	223.9	223.4	221.7	220.1
65°	197.3	198.1	196.9	198.1	196.9	198.1	197.3	196.1	193.3	192.5	190.8
67.5°	166.7	166.9	167.9	168.4	167.9	166.9	166.7	167.2	165.3	163.7	163.4
70°	147.6	147.2	148.4	149.6	148.4	147.2	147.6	146.8	145.6	144.3	142.8
72.5°	127.5	128.4	128.0	128.9	128.0	128.4	127.5	127.7	126.5	124.9	123.3
75°	98.2	99.5	99.1	100.3	99.1	99.5	98.2	99.1	98.2	96.6	95.1
77.5°	71.0	71.1	71.0	71.7	71.0	71.1	71.0	71.7	70.7	71.3	69.5
80°	54.2	53.4	52.6	54.2	52.6	53.4	54.2	54.2	53.0	54.2	53.0
82.5°	37.7	38.2	37.4	37.4	37.4	38.2	37.7	38.7	38.1	38.7	37.5
85°	17.4	17.0	16.2	16.2	16.2	17.0	17.4	17.4	18.6	17.8	17.8
87.5°	9.0	8.8	8.9	8.6	8.9	8.8	9.0	9.0	8.7	9.1	8.9
90°	28.9	29.4	29.9	30.4	29.9	29.4	28.9	28.4	27.6	26.3	25.0
92.5°	29.5	29.8	30.1	30.4	30.1	29.8	29.5	29.2	28.8	28.1	27.4
95°	49.2	49.0	48.7	48.5	48.7	49.0	49.2	49.4	49.0	47.7	46.4
97.5°	63.8	64.1	64.4	64.6	64.4	64.1	63.8	63.5	62.8	61.8	60.8
100°	74.0	74.5	75.0	75.5	75.0	74.5	74.0	73.5	72.2	70.3	68.2
102.5°	78.8	79.5	80.2	80.9	80.2	79.5	78.8	78.1	76.4	73.8	71.2
105°	82.6	83.7	84.6	85.6	84.6	83.7	82.6	81.6	79.8	77.0	74.2
107.5°	85.1	86.1	87.1	88.1	87.1	86.1	85.1	84.1	85.0	87.8	90.6
110°	86.0	87.0	88.0	89.0	88.0	87.0	86.0	85.0	97.0	122.1	147.1



TEST NUMBER: P331549-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	87.5	88.3	89.1	89.9	89.1	88.3	87.5	86.7	132.0	223.3	314.7
115°	146.5	128.4	110.4	92.4	110.4	128.4	146.5	164.5	231.5	347.4	463.3
117.5°	554.9	495.7	436.4	377.2	436.4	495.7	554.9	614.2	657.8	685.9	713.9
120°	788.7	754.9	721.0	687.3	721.0	754.9	788.7	822.4	837.9	834.9	831.9
122.5°	877.3	870.8	864.2	857.6	864.2	870.8	877.3	883.8	886.2	884.5	882.6
125°	961.1	961.8	962.6	963.3	962.6	961.8	961.1	960.3	959.0	957.3	955.5
127.5°	1029.5	1029.7	1029.8	1030.0	1029.8	1029.7	1029.5	1029.4	1028.0	1025.5	1022.9
130°	1072.2	1072.0	1071.7	1071.4	1071.7	1072.0	1072.2	1072.5	1071.2	1068.5	1065.7
132.5°	1112.8	1112.5	1112.3	1112.0	1112.3	1112.5	1112.8	1113.0	1112.0	1109.6	1107.2
135°	1172.1	1171.6	1171.1	1170.6	1171.1	1171.6	1172.1	1172.6	1171.6	1169.1	1166.6
137.5°	1226.5	1225.7	1224.9	1224.0	1224.9	1225.7	1226.5	1227.4	1226.6	1224.2	1221.7
140°	1261.2	1259.9	1258.6	1257.4	1258.6	1259.9	1261.2	1262.3	1261.9	1259.6	1257.4
142.5°	1293.6	1292.3	1291.1	1289.8	1291.1	1292.3	1293.6	1294.8	1294.4	1292.4	1290.3
145°	1338.9	1337.6	1336.3	1335.1	1336.3	1337.6	1338.9	1340.1	1339.9	1338.1	1336.3
147.5°	1378.2	1377.1	1376.0	1375.0	1376.0	1377.1	1378.2	1379.2	1379.1	1377.8	1376.5
150°	1403.1	1401.8	1400.6	1399.3	1400.6	1401.8	1403.1	1404.3	1404.2	1402.7	1401.2
152.5°	1425.0	1423.4	1421.7	1420.1	1421.7	1423.4	1425.0	1426.6	1426.7	1425.2	1423.7
155°	1454.9	1452.9	1450.9	1448.9	1450.9	1452.9	1454.9	1456.9	1457.1	1455.6	1454.1
157.5°	1481.1	1479.2	1477.2	1475.3	1477.2	1479.2	1481.1	1483.0	1483.2	1481.5	1479.8
160°	1495.9	1494.1	1492.3	1490.6	1492.3	1494.1	1495.9	1497.6	1497.7	1496.2	1494.7
162.5°	1509.7	1507.5	1505.4	1503.2	1505.4	1507.5	1509.7	1511.8	1512.0	1510.4	1508.6
165°	1527.4	1525.7	1523.9	1522.1	1523.9	1525.7	1527.4	1529.1	1529.1	1527.4	1525.7
167.5°	1540.9	1538.6	1536.4	1534.1	1536.4	1538.6	1540.9	1543.1	1543.3	1541.6	1539.8
170°	1548.1	1545.8	1543.6	1541.3	1543.6	1545.8	1548.1	1550.3	1550.5	1548.8	1547.1
172.5°	1553.5	1551.2	1549.0	1546.7	1549.0	1551.2	1553.5	1555.7	1555.9	1554.2	1552.4
175°	1558.9	1556.4	1553.9	1551.4	1553.9	1556.4	1558.9	1561.5	1561.8	1560.0	1558.3
177.5°	1559.7	1558.0	1556.2	1554.3	1556.2	1558.0	1559.7	1561.5	1561.8	1560.4	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331549-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1011.1	1014.7	1020.2	1026.0	1029.6	1036.4	1038.3	1041.6	1044.5	1051.3	1058.4
5°	952.8	958.4	971.8	979.1	989.1	1000.8	1008.5	1016.7	1025.6	1040.9	1055.0
7.5°	890.2	899.6	916.2	929.8	944.2	961.0	973.1	989.1	1002.4	1024.1	1044.8
10°	848.4	861.7	876.7	892.9	913.1	930.9	947.9	968.1	984.3	1010.2	1034.4
12.5°	810.9	812.9	834.3	852.2	879.8	901.8	921.4	947.5	963.3	994.0	1019.5
15°	745.3	757.4	776.8	791.0	823.8	851.7	879.2	906.3	924.5	962.4	996.0
17.5°	690.1	701.2	721.1	744.3	767.9	795.6	831.2	859.8	884.5	928.0	967.7
20°	655.1	668.8	689.1	713.0	733.6	763.9	794.6	827.4	854.1	903.0	949.5
22.5°	625.3	636.2	652.5	676.0	698.6	726.4	760.0	795.7	823.7	876.5	923.6
25°	583.5	592.5	602.9	622.3	647.8	678.2	704.5	743.7	784.5	833.9	890.9
27.5°	545.8	552.2	561.5	578.5	598.3	626.6	655.8	693.1	734.1	787.7	847.9
30°	522.9	527.0	536.2	550.4	569.8	592.0	621.5	657.1	699.2	753.4	813.3
32.5°	502.8	506.5	512.6	526.1	543.0	562.0	588.6	624.2	664.2	717.5	783.8
35°	472.8	475.5	480.9	491.7	501.1	519.7	541.9	574.3	611.9	662.8	731.6
37.5°	442.8	446.6	449.9	454.5	466.4	478.6	498.0	525.3	562.2	613.6	679.1
40°	423.0	426.2	431.1	433.1	442.8	453.8	469.5	494.6	531.8	578.7	642.6
42.5°	402.9	406.2	409.1	411.5	419.9	429.4	443.6	465.2	498.1	543.8	607.0
45°	375.7	376.0	378.9	383.3	387.4	394.3	404.4	423.0	448.5	491.3	548.7
47.5°	348.0	348.5	349.0	350.9	355.4	361.6	368.3	383.4	406.2	440.5	496.4
50°	329.5	328.8	329.5	331.2	334.1	339.3	347.0	357.9	376.5	408.4	459.8
52.5°	311.8	311.6	311.2	311.8	313.9	317.6	323.1	332.3	349.0	378.3	423.6
55°	284.7	282.7	283.0	281.5	285.1	285.9	289.9	297.6	312.2	332.4	374.9
57.5°	255.8	254.1	252.3	251.8	251.5	253.7	257.0	263.0	274.2	291.9	326.4
60°	237.4	235.4	232.9	232.1	232.1	233.3	235.0	239.4	249.9	265.7	294.0
62.5°	218.6	216.3	214.8	212.7	212.1	213.3	214.9	218.1	225.6	240.4	264.9
65°	189.6	186.8	184.8	184.4	183.6	182.4	183.2	186.4	192.5	204.2	223.6
67.5°	160.7	158.0	157.5	155.1	154.0	154.2	154.0	156.8	160.4	170.5	185.0
70°	141.6	139.5	138.7	136.7	135.9	135.1	134.3	136.7	140.3	148.9	161.4
72.5°	122.2	120.4	118.7	116.9	117.1	116.3	116.1	117.6	120.6	128.4	138.1
75°	94.2	94.7	92.6	90.5	90.2	89.4	89.4	90.5	91.8	97.8	105.5
77.5°	68.4	68.0	66.3	65.7	65.3	64.4	65.3	66.1	66.7	70.7	76.4
80°	52.2	52.2	50.1	50.1	49.7	48.6	49.7	49.0	50.5	54.6	58.6
82.5°	37.3	36.6	36.5	35.9	35.8	34.9	35.5	36.3	37.0	39.7	42.1
85°	18.2	18.2	17.8	17.4	17.8	17.4	17.8	18.2	18.6	19.8	21.9
87.5°	8.6	8.7	8.6	8.6	8.2	8.1	7.9	7.7	7.8	7.6	7.4
90°	23.8	22.5	20.5	18.5	16.6	14.5	12.1	9.4	6.7	3.9	1.1
92.5°	26.8	26.1	25.1	24.2	23.1	22.1	21.8	22.0	22.3	22.5	22.7
95°	45.2	44.0	42.2	40.4	38.7	36.9	40.2	48.5	56.7	65.0	73.2
97.5°	59.8	58.8	54.7	50.7	46.7	42.6	52.2	75.5	98.8	122.1	145.4
100°	66.2	64.2	60.0	55.7	51.4	47.2	62.2	96.5	130.8	165.1	199.4
102.5°	68.6	66.0	101.6	137.2	172.9	208.4	229.9	237.1	244.4	251.7	258.9
105°	71.5	68.8	137.0	205.4	273.8	342.1	372.6	365.0	357.5	350.0	342.5
107.5°	93.4	96.3	178.2	260.2	342.1	424.1	462.1	456.0	450.0	443.9	437.8
110°	172.1	197.2	269.5	341.9	414.2	486.6	520.1	514.9	509.6	504.4	499.2



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	406.0	497.3	515.2	533.1	551.0	568.8	575.4	570.8	566.1	561.4	556.8
115°	579.2	695.1	688.9	682.6	676.4	670.1	664.9	660.6	656.3	652.1	647.8
117.5°	742.0	770.0	765.6	761.4	757.0	752.7	748.2	743.5	738.7	734.0	729.2
120°	828.9	825.9	821.3	816.8	812.3	807.8	803.7	799.9	796.1	792.4	788.7
122.5°	880.8	879.0	874.1	869.2	864.3	859.4	855.0	851.0	847.1	843.1	839.2
125°	953.8	952.0	947.3	942.5	937.8	933.0	929.0	925.7	922.5	919.2	916.0
127.5°	1020.4	1017.9	1014.3	1010.7	1007.2	1003.6	1000.1	996.4	992.8	989.2	985.6
130°	1063.0	1060.2	1057.4	1054.7	1051.9	1049.2	1045.8	1041.8	1037.8	1033.8	1029.8
132.5°	1104.9	1102.6	1099.8	1097.0	1094.3	1091.5	1088.5	1085.1	1081.6	1078.2	1074.8
135°	1164.1	1161.6	1159.4	1157.1	1154.8	1152.5	1149.5	1145.4	1141.5	1137.4	1133.5
137.5°	1219.2	1216.8	1214.3	1211.7	1209.1	1206.6	1203.9	1201.1	1198.3	1195.5	1192.7
140°	1255.1	1252.8	1250.1	1247.4	1244.6	1241.8	1239.4	1237.5	1235.5	1233.4	1231.4
142.5°	1288.2	1286.2	1283.0	1279.9	1276.8	1273.6	1271.1	1269.3	1267.5	1265.7	1263.9
145°	1334.6	1332.8	1328.6	1324.4	1320.1	1315.8	1313.8	1314.1	1314.3	1314.5	1314.9
147.5°	1375.1	1373.9	1369.7	1365.5	1361.2	1357.0	1355.4	1356.4	1357.3	1358.3	1359.2
150°	1399.7	1398.2	1394.2	1390.2	1386.2	1382.2	1381.0	1382.8	1384.6	1386.3	1388.1
152.5°	1422.2	1420.7	1416.9	1413.1	1409.3	1405.5	1404.6	1406.5	1408.5	1410.5	1412.4
155°	1452.6	1451.1	1448.2	1445.2	1442.2	1439.2	1438.8	1441.0	1443.3	1445.5	1447.8
157.5°	1478.1	1476.4	1474.3	1472.2	1470.1	1468.0	1467.9	1469.8	1471.7	1473.6	1475.5
160°	1493.2	1491.7	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7
162.5°	1507.0	1505.2	1504.0	1502.6	1501.3	1500.0	1500.2	1501.7	1503.2	1504.7	1506.1
165°	1523.9	1522.1	1521.4	1520.6	1519.9	1519.2	1519.5	1521.0	1522.5	1524.0	1525.5
167.5°	1538.1	1536.4	1535.6	1534.9	1534.2	1533.5	1533.9	1535.4	1536.9	1538.4	1539.9
170°	1545.3	1543.6	1543.0	1542.5	1542.1	1541.5	1542.1	1543.6	1545.1	1546.6	1548.1
172.5°	1550.7	1549.0	1548.5	1547.9	1547.4	1547.0	1547.4	1549.0	1550.5	1552.0	1553.5
175°	1556.6	1554.8	1554.3	1553.8	1553.3	1552.8	1553.5	1555.2	1557.0	1558.7	1560.4
177.5°	1557.6	1556.2	1555.9	1555.8	1555.5	1555.4	1555.9	1557.4	1558.8	1560.2	1561.5
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



TEST NUMBER: P331549-927

CATALOG NUMBER: S122DIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1057.7	1059.4	1064.5	1069.7	1075.5	1077.1	1079.7	1077.4	1076.8	1083.0	1087.5
5°	1060.7	1068.0	1082.2	1095.1	1106.0	1113.7	1121.8	1125.1	1131.1	1139.6	1150.1
7.5°	1057.3	1071.5	1093.8	1112.5	1133.1	1148.0	1159.5	1169.3	1181.3	1197.4	1215.0
10°	1053.4	1072.5	1099.5	1122.6	1147.6	1166.6	1182.5	1197.8	1215.6	1237.9	1260.9
12.5°	1046.3	1068.9	1102.8	1130.0	1162.2	1180.9	1202.2	1235.3	1254.4	1285.4	1317.9
15°	1032.1	1057.1	1104.4	1138.0	1174.3	1210.0	1249.2	1280.7	1312.2	1330.5	1376.2
17.5°	1010.7	1047.6	1099.9	1139.1	1185.3	1241.4	1285.5	1321.2	1357.6	1387.2	1410.1
20°	993.6	1033.6	1093.4	1140.4	1195.4	1255.6	1306.2	1342.6	1374.1	1398.8	1412.9
22.5°	971.9	1022.3	1080.5	1135.5	1205.8	1265.4	1318.5	1347.1	1373.5	1385.5	1391.0
25°	937.8	998.5	1064.4	1131.5	1210.8	1273.8	1322.4	1339.7	1347.4	1335.7	1316.3
27.5°	901.0	968.6	1045.7	1123.9	1207.7	1268.4	1303.1	1300.4	1287.4	1249.4	1219.1
30°	873.5	947.9	1030.8	1116.1	1200.2	1259.3	1279.5	1259.3	1229.8	1187.3	1144.1
32.5°	844.7	921.7	1014.9	1105.1	1186.7	1238.6	1242.9	1208.2	1162.4	1114.2	1060.3
35°	801.1	884.4	985.1	1080.5	1157.8	1190.6	1171.2	1109.7	1055.5	989.6	915.9
37.5°	751.9	843.8	944.8	1044.6	1114.5	1123.1	1074.9	1010.2	933.7	856.3	769.7
40°	714.9	812.5	916.4	1017.1	1079.0	1070.0	1008.5	937.4	846.4	751.8	671.3
42.5°	682.0	779.4	885.3	984.0	1033.6	1009.2	937.4	850.0	752.3	663.1	589.5
45°	624.8	725.1	833.5	928.9	957.2	913.1	818.1	721.0	624.8	550.4	492.2
47.5°	569.3	668.4	775.8	859.7	869.7	810.4	706.5	606.7	523.9	463.3	422.2
50°	528.5	628.0	734.4	809.2	806.0	734.4	627.6	532.6	463.4	414.5	387.0
52.5°	492.0	586.0	688.1	756.1	739.0	660.9	559.0	474.7	417.8	379.5	354.7
55°	435.1	522.0	619.1	673.8	642.1	555.6	469.5	401.6	359.5	330.8	311.4
57.5°	378.7	460.2	543.3	576.9	542.1	462.2	390.3	341.0	309.4	288.2	275.5
60°	343.7	414.9	488.9	518.0	476.3	405.2	348.6	304.5	279.0	261.7	250.3
62.5°	308.8	372.6	442.4	458.2	420.1	359.9	309.7	273.1	252.2	236.7	226.1
65°	261.3	313.4	366.4	376.9	341.7	295.2	255.6	231.7	213.1	201.8	193.3
67.5°	214.3	256.1	293.7	302.1	271.3	239.1	210.5	189.6	177.1	167.6	160.5
70°	186.4	219.6	250.3	257.2	232.5	203.8	182.0	165.4	154.1	146.0	139.1
72.5°	157.0	184.7	210.2	214.8	194.6	172.8	154.8	141.8	131.7	126.6	120.0
75°	120.1	136.3	156.1	157.3	143.9	130.6	116.8	108.4	103.1	96.6	93.4
77.5°	84.8	97.4	108.8	111.0	103.1	94.0	86.3	79.6	75.1	72.2	69.2
80°	64.7	74.8	79.7	82.5	76.8	70.3	65.9	61.5	58.6	56.6	54.6
82.5°	46.3	52.5	57.0	59.2	56.2	52.3	47.8	45.3	43.1	41.4	40.7
85°	23.4	26.3	29.2	29.9	29.2	27.5	25.0	25.0	23.8	23.4	23.4
87.5°	8.9	10.7	11.2	12.8	12.6	13.0	13.4	13.5	13.5	13.5	13.4
90°	3.9	6.7	9.4	12.1	14.5	16.6	18.5	20.5	22.5	23.8	25.0
92.5°	22.5	22.3	22.0	21.8	22.1	23.1	24.2	25.1	26.1	26.8	27.4
95°	65.0	56.7	48.5	40.2	36.9	38.7	40.4	42.2	44.0	45.2	46.4
97.5°	122.1	98.8	75.5	52.2	42.6	46.7	50.7	54.7	58.8	59.8	60.8
100°	165.1	130.8	96.5	62.2	47.2	51.4	55.7	60.0	64.2	66.2	68.2
102.5°	251.7	244.4	237.1	229.9	208.4	172.9	137.2	101.6	66.0	68.6	71.2
105°	350.0	357.5	365.0	372.6	342.1	273.8	205.4	137.0	68.8	71.5	74.2
107.5°	443.9	450.0	456.0	462.1	424.1	342.1	260.2	178.2	96.3	93.4	90.6
110°	504.4	509.6	514.9	520.1	486.6	414.2	341.9	269.5	197.2	172.1	147.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	561.4	566.1	570.8	575.4	568.8	551.0	533.1	515.2	497.3	406.0	314.7
115°	652.1	656.3	660.6	664.9	670.1	676.4	682.6	688.9	695.1	579.2	463.3
117.5°	734.0	738.7	743.5	748.2	752.7	757.0	761.4	765.6	770.0	742.0	713.9
120°	792.4	796.1	799.9	803.7	807.8	812.3	816.8	821.3	825.9	828.9	831.9
122.5°	843.1	847.1	851.0	855.0	859.4	864.3	869.2	874.1	879.0	880.8	882.6
125°	919.2	922.5	925.7	929.0	933.0	937.8	942.5	947.3	952.0	953.8	955.5
127.5°	989.2	992.8	996.4	1000.1	1003.6	1007.2	1010.7	1014.3	1017.9	1020.4	1022.9
130°	1033.8	1037.8	1041.8	1045.8	1049.2	1051.9	1054.7	1057.4	1060.2	1063.0	1065.7
132.5°	1078.2	1081.6	1085.1	1088.5	1091.5	1094.3	1097.0	1099.8	1102.6	1104.9	1107.2
135°	1137.4	1141.5	1145.4	1149.5	1152.5	1154.8	1157.1	1159.4	1161.6	1164.1	1166.6
137.5°	1195.5	1198.3	1201.1	1203.9	1206.6	1209.1	1211.7	1214.3	1216.8	1219.2	1221.7
140°	1233.4	1235.5	1237.5	1239.4	1241.8	1244.6	1247.4	1250.1	1252.8	1255.1	1257.4
142.5°	1265.7	1267.5	1269.3	1271.1	1273.6	1276.8	1279.9	1283.0	1286.2	1288.2	1290.3
145°	1314.5	1314.3	1314.1	1313.8	1315.8	1320.1	1324.4	1328.6	1332.8	1334.6	1336.3
147.5°	1358.3	1357.3	1356.4	1355.4	1357.0	1361.2	1365.5	1369.7	1373.9	1375.1	1376.5
150°	1386.3	1384.6	1382.8	1381.0	1382.2	1386.2	1390.2	1394.2	1398.2	1399.7	1401.2
152.5°	1410.5	1408.5	1406.5	1404.6	1405.5	1409.3	1413.1	1416.9	1420.7	1422.2	1423.7
155°	1445.5	1443.3	1441.0	1438.8	1439.2	1442.2	1445.2	1448.2	1451.1	1452.6	1454.1
157.5°	1473.6	1471.7	1469.8	1467.9	1468.0	1470.1	1472.2	1474.3	1476.4	1478.1	1479.8
160°	1490.2	1488.7	1487.2	1485.7	1485.7	1487.2	1488.7	1490.2	1491.7	1493.2	1494.7
162.5°	1504.7	1503.2	1501.7	1500.2	1500.0	1501.3	1502.6	1504.0	1505.2	1507.0	1508.6
165°	1524.0	1522.5	1521.0	1519.5	1519.2	1519.9	1520.6	1521.4	1522.1	1523.9	1525.7
167.5°	1538.4	1536.9	1535.4	1533.9	1533.5	1534.2	1534.9	1535.6	1536.4	1538.1	1539.8
170°	1546.6	1545.1	1543.6	1542.1	1541.5	1542.1	1542.5	1543.0	1543.6	1545.3	1547.1
172.5°	1552.0	1550.5	1549.0	1547.4	1547.0	1547.4	1547.9	1548.5	1549.0	1550.7	1552.4
175°	1558.7	1557.0	1555.2	1553.5	1552.8	1553.3	1553.8	1554.3	1554.8	1556.6	1558.3
177.5°	1560.2	1558.8	1557.4	1555.9	1555.4	1555.5	1555.8	1555.9	1556.2	1557.6	1558.9
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1091.4	1095.9	1095.9	1096.5	1101.8	1101.1	1100.7
5°	1161.4	1168.3	1169.1	1176.4	1181.2	1179.6	1175.2
7.5°	1227.5	1240.3	1250.0	1255.4	1261.8	1265.7	1264.0
10°	1279.9	1298.5	1309.9	1317.6	1326.8	1333.7	1331.3
12.5°	1327.5	1349.6	1365.2	1378.3	1379.6	1388.4	1382.4
15°	1401.6	1425.1	1427.5	1437.3	1444.9	1444.1	1444.5
17.5°	1426.2	1433.7	1435.2	1435.4	1435.5	1432.7	1426.6
20°	1417.4	1414.6	1407.7	1402.5	1393.1	1391.9	1383.9
22.5°	1376.0	1367.0	1349.8	1338.4	1323.9	1320.1	1317.9
25°	1294.5	1274.6	1247.1	1220.8	1213.6	1199.4	1203.5
27.5°	1182.6	1151.8	1122.0	1100.6	1081.2	1060.1	1066.1
30°	1104.0	1069.2	1027.1	994.8	974.2	953.9	950.3
32.5°	1010.2	959.3	912.3	883.8	852.2	839.5	825.5
35°	848.4	798.7	752.2	712.2	689.1	671.3	655.1
37.5°	702.9	645.6	608.2	575.7	559.0	548.8	551.4
40°	612.7	562.5	535.0	510.3	495.0	487.7	489.3
42.5°	539.6	502.0	479.3	462.5	451.6	447.6	446.6
45°	456.5	435.5	416.9	407.3	402.0	397.5	394.7
47.5°	400.0	382.8	372.3	366.5	361.9	357.4	357.4
50°	366.0	354.7	347.4	341.3	337.7	334.5	337.2
52.5°	340.1	329.7	322.5	317.0	315.7	312.8	312.7
55°	301.7	293.6	288.4	283.4	281.1	279.4	277.4
57.5°	266.7	259.0	254.2	251.1	246.5	244.9	244.2
60°	241.9	235.8	230.9	226.9	224.8	221.6	221.6
62.5°	218.9	212.8	208.3	205.2	201.8	200.6	200.9
65°	185.6	180.8	176.3	173.1	172.3	169.8	170.6
67.5°	155.0	151.8	147.1	145.4	143.8	142.5	141.6
70°	134.7	131.4	129.0	126.6	125.3	125.3	125.3
72.5°	117.5	113.6	112.2	109.1	109.8	108.5	107.3
75°	91.0	88.6	87.4	86.1	84.1	84.1	84.1
77.5°	66.9	66.2	64.8	63.5	63.0	62.6	62.7
80°	51.7	51.3	50.5	50.5	49.7	49.4	48.6
82.5°	39.8	38.7	38.3	37.9	37.8	37.7	37.5
85°	22.7	21.9	21.9	22.3	21.5	21.5	21.9
87.5°	14.0	14.3	14.1	14.2	14.7	14.4	14.5
90°	26.3	27.6	28.4	28.9	29.4	29.9	30.4
92.5°	28.1	28.8	29.2	29.5	29.8	30.1	30.4
95°	47.7	49.0	49.4	49.2	49.0	48.7	48.5
97.5°	61.8	62.8	63.5	63.8	64.1	64.4	64.6
100°	70.3	72.2	73.5	74.0	74.5	75.0	75.5
102.5°	73.8	76.4	78.1	78.8	79.5	80.2	80.9
105°	77.0	79.8	81.6	82.6	83.7	84.6	85.6
107.5°	87.8	85.0	84.1	85.1	86.1	87.1	88.1
110°	122.1	97.0	85.0	86.0	87.0	88.0	89.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	223.3	132.0	86.7	87.5	88.3	89.1	89.9
115°	347.4	231.5	164.5	146.5	128.4	110.4	92.4
117.5°	685.9	657.8	614.2	554.9	495.7	436.4	377.2
120°	834.9	837.9	822.4	788.7	754.9	721.0	687.3
122.5°	884.5	886.2	883.8	877.3	870.8	864.2	857.6
125°	957.3	959.0	960.3	961.1	961.8	962.6	963.3
127.5°	1025.5	1028.0	1029.4	1029.5	1029.7	1029.8	1030.0
130°	1068.5	1071.2	1072.5	1072.2	1072.0	1071.7	1071.4
132.5°	1109.6	1112.0	1113.0	1112.8	1112.5	1112.3	1112.0
135°	1169.1	1171.6	1172.6	1172.1	1171.6	1171.1	1170.6
137.5°	1224.2	1226.6	1227.4	1226.5	1225.7	1224.9	1224.0
140°	1259.6	1261.9	1262.3	1261.2	1259.9	1258.6	1257.4
142.5°	1292.4	1294.4	1294.8	1293.6	1292.3	1291.1	1289.8
145°	1338.1	1339.9	1340.1	1338.9	1337.6	1336.3	1335.1
147.5°	1377.8	1379.1	1379.2	1378.2	1377.1	1376.0	1375.0
150°	1402.7	1404.2	1404.3	1403.1	1401.8	1400.6	1399.3
152.5°	1425.2	1426.7	1426.6	1425.0	1423.4	1421.7	1420.1
155°	1455.6	1457.1	1456.9	1454.9	1452.9	1450.9	1448.9
157.5°	1481.5	1483.2	1483.0	1481.1	1479.2	1477.2	1475.3
160°	1496.2	1497.7	1497.6	1495.9	1494.1	1492.3	1490.6
162.5°	1510.4	1512.0	1511.8	1509.7	1507.5	1505.4	1503.2
165°	1527.4	1529.1	1529.1	1527.4	1525.7	1523.9	1522.1
167.5°	1541.6	1543.3	1543.1	1540.9	1538.6	1536.4	1534.1
170°	1548.8	1550.5	1550.3	1548.1	1545.8	1543.6	1541.3
172.5°	1554.2	1555.9	1555.7	1553.5	1551.2	1549.0	1546.7
175°	1560.0	1561.8	1561.5	1558.9	1556.4	1553.9	1551.4
177.5°	1560.4	1561.8	1561.5	1559.7	1558.0	1556.2	1554.3
180°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0

(END OF REPORT)