

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331821-927

Luminaire Tested: **S122RDIW-S675D1440U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331821-927
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: S122RDIW-S675D1440U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1440 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6578.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

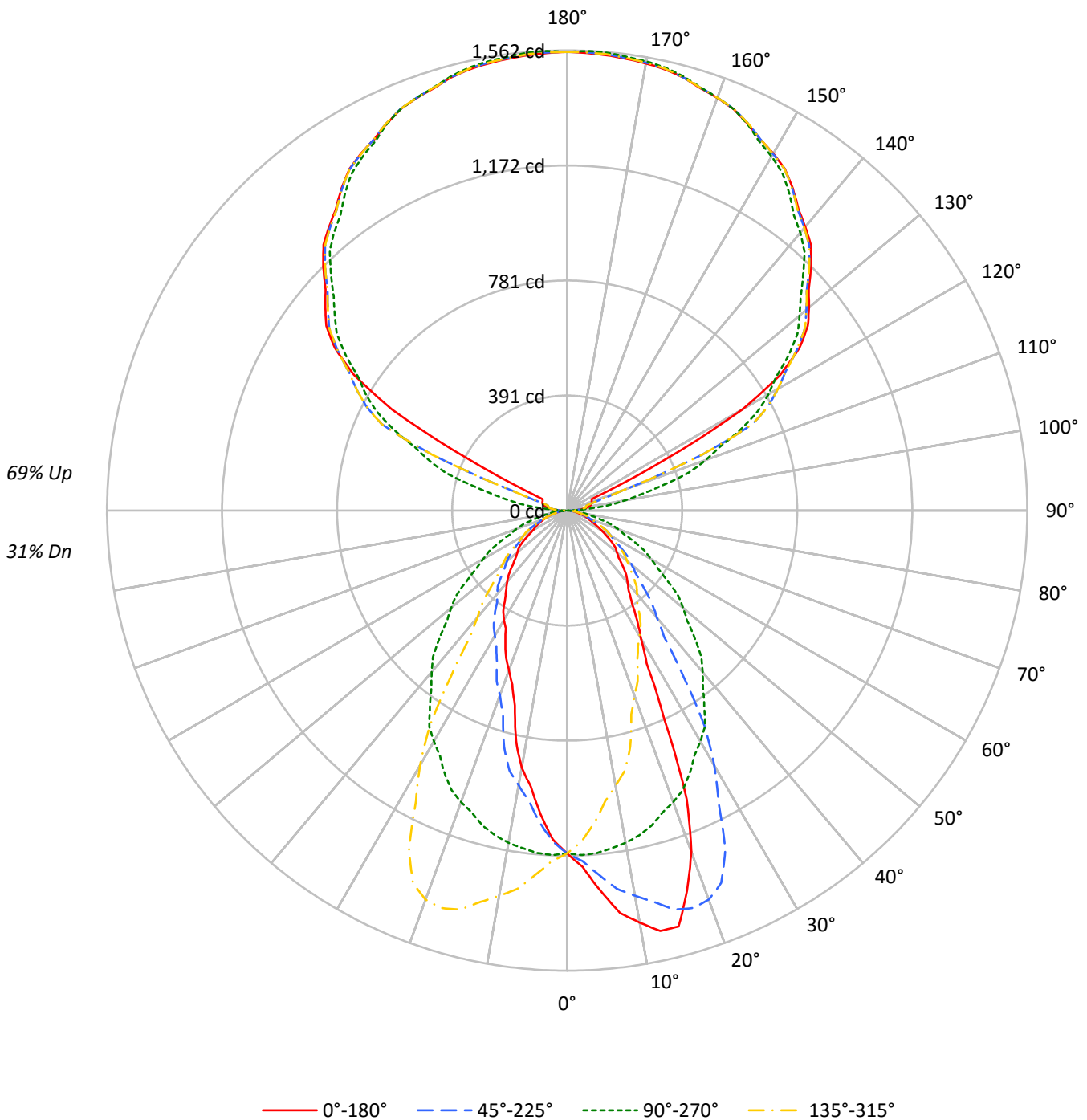
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	86	79	73	69	77	71	67	62	57	54	51	43	41	39	31	30	29	23
3	79	70	63	58	70	63	57	53	51	46	43	39	36	34	28	26	25	20
4	72	62	55	49	65	56	50	45	45	41	37	35	32	30	25	24	22	18
5	66	55	48	42	60	50	44	39	41	36	32	32	28	26	23	21	20	16
6	61	50	42	37	55	45	39	34	37	32	28	29	25	23	21	19	17	14
7	57	45	38	32	51	41	35	30	33	29	25	26	23	20	19	17	16	13
8	53	41	34	29	47	37	31	27	31	26	22	24	21	18	18	16	14	12
9	49	37	30	26	44	34	28	24	28	23	20	22	19	17	17	15	13	11
10	46	34	28	23	41	31	25	21	26	21	18	21	17	15	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18791	18791	18791	18791
5°	20985	18908	16765	18908
10°	23282	18775	14532	18775
15°	24428	18501	11450	18501
20°	21179	18093	9907	18093
25°	13890	17533	8845	17533
30°	9350	16858	8006	16858
35°	7571	16005	7222	16005
40°	6734	15076	6681	15076
45°	6094	13988	5966	13988
50°	5546	12911	5526	12911
55°	5213	11713	5146	11713
60°	4363	10618	4308	10618
65°	3679	9639	4172	9639
70°	3399	8611	3932	8611
75°	3175	7492	3631	7492
80°	2929	6165	3236	6165
85°	2705	4872	2853	4872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.7
10°-20°	307.4	4.7
20°-30°	396.1	6.0
30°-40°	376.4	5.7
40°-50°	322.5	4.9
50°-60°	245.6	3.7
60°-70°	155.2	2.4
70°-80°	77.5	1.2
80°-90°	24.0	0.4
90°-100°	51.9	0.8
100°-110°	190.5	2.9
110°-120°	509.1	7.7
120°-130°	840.4	12.8
130°-140°	893.8	13.6
140°-150°	830.7	12.6
150°-160°	667.9	10.2
160°-170°	430.4	6.5
170°-180°	148.2	2.3
0°-30°	813.8	12.4
0°-40°	1190.3	18.1
0°-60°	1758.3	26.7
0°-90°	2015.1	30.6
90°-120°	751.5	11.4
90°-150°	3316.5	50.4
90°-180°	4563.0	69.4
0°-180°	6578.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1164	1164	1164	1164	1164	
5°	1295	1167	1034	1167	1295	128
15°	1461	1107	685	1107	1461	394
25°	780	984	496	984	780	370
35°	384	812	366	812	384	246
45°	267	613	261	613	267	207
55°	185	416	183	416	185	163
65°	96	252	109	252	96	98
75°	51	120	58	120	51	54
85°	15	26	15	26	15	16
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1211.0	1212.0	1213.0	1210.7	1210.7	1208.7	1204.5	1201.3	1192.2	1191.0	1191.0
5°	1294.8	1294.0	1295.6	1290.4	1283.1	1281.4	1273.7	1263.7	1253.2	1241.4	1239.0
7.5°	1378.1	1376.9	1373.6	1372.8	1367.1	1354.9	1342.6	1329.4	1311.9	1294.9	1286.3
10°	1420.1	1433.5	1425.4	1411.3	1414.1	1395.1	1385.0	1367.6	1353.0	1327.5	1321.9
12.5°	1461.6	1466.8	1464.3	1456.2	1452.5	1439.4	1425.8	1410.6	1383.8	1360.9	1341.0
15°	1461.4	1469.1	1471.1	1468.7	1470.7	1469.9	1462.6	1450.1	1426.6	1401.5	1379.7
17.5°	1353.5	1358.8	1372.1	1381.1	1392.4	1416.3	1428.1	1432.7	1429.3	1415.0	1399.6
20°	1232.6	1223.6	1260.8	1279.8	1296.0	1336.4	1371.2	1384.6	1406.0	1405.6	1401.5
22.5°	1061.0	1063.2	1098.4	1121.0	1168.2	1208.6	1248.3	1298.5	1340.0	1367.4	1383.5
25°	779.7	795.0	830.2	860.9	913.5	988.7	1057.0	1136.3	1211.1	1270.1	1326.4
27.5°	585.5	586.7	614.6	642.9	674.1	735.8	821.8	916.5	1023.1	1111.1	1212.4
30°	501.5	499.0	510.7	528.1	554.8	602.5	667.2	760.3	866.6	999.2	1117.3
32.5°	441.9	442.0	450.9	463.7	485.9	518.1	562.4	637.9	738.5	868.9	1007.3
35°	384.1	383.7	390.2	399.5	408.8	429.4	459.8	499.4	568.5	690.2	831.8
37.5°	342.8	344.5	347.7	353.5	363.8	375.3	393.5	420.1	469.3	541.3	660.3
40°	319.5	320.3	324.7	329.5	335.6	344.5	359.5	380.9	416.9	474.4	561.3
42.5°	298.1	298.9	302.1	306.6	311.3	320.3	332.6	351.2	380.3	425.2	496.9
45°	266.9	266.9	269.7	271.7	277.0	285.1	295.2	310.5	330.8	363.9	411.6
47.5°	237.6	237.7	239.6	243.0	246.4	252.6	262.6	275.1	289.9	315.5	356.2
50°	220.8	221.2	222.4	225.2	227.3	232.9	240.6	251.5	266.9	286.7	320.7
52.5°	207.2	206.9	208.5	209.7	211.1	215.2	220.9	230.5	244.2	261.5	289.6
55°	185.2	183.5	186.0	188.1	189.3	190.8	194.1	200.2	211.9	226.5	247.5
57.5°	157.7	157.1	158.8	160.7	164.5	168.8	171.5	175.4	181.5	191.9	212.8
60°	135.1	135.1	138.7	139.9	144.3	150.0	155.7	158.9	165.0	171.8	187.2
62.5°	115.0	115.3	117.0	118.3	120.7	127.7	135.6	142.8	148.5	155.0	165.2
65°	96.3	97.0	97.0	97.8	99.5	101.1	104.3	110.0	120.1	129.4	137.0
67.5°	81.7	81.9	82.1	82.9	83.4	85.2	86.4	89.0	91.3	100.1	109.6
70°	72.0	73.2	72.8	73.6	74.0	74.8	76.4	77.6	81.3	83.3	89.0
72.5°	62.9	63.8	63.7	64.2	65.3	65.4	66.7	68.0	70.3	72.0	75.0
75°	50.9	50.5	50.9	51.7	52.1	52.6	52.6	54.2	55.4	57.0	59.0
77.5°	39.3	39.7	39.6	39.7	39.8	40.5	40.4	41.2	42.4	43.2	44.1
80°	31.5	31.9	31.5	31.9	32.3	32.7	32.3	32.7	34.0	34.8	34.8
82.5°	24.4	24.5	24.7	24.8	24.9	25.0	25.6	25.7	26.5	26.4	26.7
85°	14.6	14.2	14.2	14.2	14.6	15.0	14.6	14.6	15.0	15.0	15.0
87.5°	11.2	11.5	11.4	11.2	11.2	11.0	10.8	10.9	10.2	10.3	9.6
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1191.6	1189.0	1186.8	1180.9	1178.1	1171.6	1170.6	1170.3	1161.8	1153.7	1151.5
5°	1232.6	1226.1	1216.3	1205.0	1193.3	1181.1	1173.1	1166.6	1150.4	1135.0	1126.2
7.5°	1273.7	1259.9	1243.1	1221.7	1203.8	1183.8	1168.9	1155.6	1132.6	1110.6	1095.7
10°	1304.5	1281.8	1259.6	1230.1	1207.0	1184.4	1163.4	1145.2	1119.3	1090.2	1069.5
12.5°	1323.6	1298.7	1268.0	1239.1	1209.3	1180.5	1152.4	1129.0	1098.6	1068.5	1044.0
15°	1349.4	1322.7	1285.5	1244.3	1205.9	1168.2	1135.9	1106.8	1067.1	1031.2	1001.2
17.5°	1370.5	1333.8	1293.8	1246.1	1201.7	1153.8	1112.1	1075.0	1030.9	987.5	952.2
20°	1377.3	1340.9	1294.8	1247.1	1194.5	1138.3	1093.4	1053.0	1005.7	958.4	917.9
22.5°	1373.1	1344.8	1293.5	1236.4	1182.6	1123.7	1073.0	1026.1	973.7	925.3	878.5
25°	1344.6	1334.8	1286.3	1224.0	1162.6	1094.2	1035.6	984.2	924.4	872.7	821.7
27.5°	1277.9	1298.9	1268.8	1202.5	1134.2	1060.9	995.0	936.5	874.4	816.2	765.4
30°	1213.9	1262.0	1249.1	1187.6	1111.2	1039.3	965.3	904.2	837.9	778.0	727.9
32.5°	1126.2	1205.8	1218.4	1167.0	1087.9	1008.8	931.3	870.5	801.3	738.2	689.4
35°	986.7	1105.6	1160.2	1127.4	1048.1	962.8	882.7	812.0	742.4	680.2	631.6
37.5°	820.1	982.1	1073.0	1075.4	1002.6	913.9	826.7	756.5	685.2	624.1	571.6
40°	712.1	887.6	1006.1	1032.4	970.9	875.0	786.9	715.3	645.8	585.9	525.7
42.5°	615.1	789.9	935.6	981.3	932.4	837.2	748.8	673.9	606.3	549.7	488.1
45°	497.4	650.2	810.8	892.5	865.4	777.2	683.8	612.6	549.1	500.2	441.2
47.5°	419.5	527.3	682.6	793.1	792.7	712.2	620.3	552.2	493.3	447.4	399.6
50°	375.3	469.1	600.5	725.9	736.3	668.8	581.5	514.0	459.0	410.8	372.4
52.5°	335.5	412.8	530.9	651.1	681.0	622.6	537.8	475.5	422.1	377.9	344.9
55°	283.4	343.3	433.1	545.5	590.8	549.5	474.4	416.1	372.8	335.6	307.3
57.5°	239.8	284.7	356.7	447.3	499.9	474.0	411.9	364.6	327.6	294.0	271.6
60°	212.3	249.1	310.1	385.8	444.0	425.8	372.8	328.8	297.2	268.1	247.1
62.5°	186.4	218.0	270.4	331.8	385.2	377.6	334.3	297.4	269.7	243.2	225.4
65°	150.0	173.1	213.9	262.1	304.9	308.6	277.4	252.3	227.7	206.6	190.8
67.5°	119.5	134.5	163.3	203.8	235.9	247.4	228.4	209.2	189.6	173.4	159.7
70°	100.7	112.8	133.9	166.6	196.1	208.3	197.3	182.4	165.4	152.0	140.3
72.5°	81.6	93.4	108.9	132.9	158.3	171.3	167.5	156.9	143.1	132.0	120.9
75°	61.5	65.1	75.7	91.8	111.6	122.9	125.8	120.1	109.2	100.7	94.2
77.5°	45.5	47.6	52.7	61.2	74.1	84.2	88.3	87.7	80.2	75.2	69.2
80°	36.4	37.6	40.0	43.6	53.4	63.5	66.3	66.3	61.1	59.0	53.0
82.5°	27.6	28.5	30.0	32.0	36.5	45.4	48.6	49.2	45.9	43.2	38.4
85°	15.8	15.4	16.2	17.3	18.2	20.6	25.5	26.3	25.5	22.3	21.0
87.5°	9.2	9.1	8.7	7.9	7.7	7.4	8.6	9.6	8.9	8.5	8.3
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: P331821-927

CATALOG NUMBER: S122RDIW-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: P331821-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1147.3	1145.0	1140.8	1134.3	1130.4	1123.6	1119.1	1121.7	1122.4	1121.7	1121.1
5°	1116.5	1107.9	1096.2	1084.9	1074.4	1063.1	1056.6	1053.8	1048.1	1044.9	1043.3
7.5°	1079.2	1064.5	1048.0	1028.3	1011.5	994.0	985.0	980.5	968.9	962.7	957.1
10°	1051.4	1028.3	1011.8	985.9	970.1	947.1	931.3	931.7	915.9	907.0	900.6
12.5°	1020.6	995.3	967.7	944.4	922.5	904.0	885.0	877.3	860.5	852.0	834.6
15°	969.7	940.2	911.1	879.5	857.3	828.5	801.1	767.5	740.4	716.9	710.5
17.5°	914.0	877.5	848.3	811.3	773.2	724.8	693.0	673.5	657.2	644.8	635.6
20°	875.8	838.7	807.6	751.7	700.4	667.7	644.2	629.2	612.2	598.9	591.6
22.5°	835.8	796.9	754.5	692.2	652.2	625.9	605.0	587.8	576.3	565.9	559.3
25°	778.8	736.3	666.4	623.5	591.2	563.7	549.1	538.6	526.5	512.3	505.9
27.5°	718.7	651.1	600.9	569.0	538.1	520.2	507.2	491.5	480.6	474.3	467.5
30°	673.7	606.2	567.0	532.2	510.3	490.5	475.2	466.3	455.7	444.8	440.4
32.5°	623.5	569.6	532.0	503.0	480.9	464.0	451.9	437.4	429.8	423.1	413.8
35°	561.3	520.5	486.1	462.6	441.6	427.9	413.7	405.2	391.4	385.8	382.1
37.5°	508.5	473.1	447.5	422.7	406.1	390.9	382.2	368.7	362.7	354.9	347.2
40°	478.8	444.0	419.3	399.1	380.5	369.2	358.3	347.4	338.4	334.9	325.5
42.5°	448.4	420.1	395.4	373.2	360.8	348.8	335.0	327.0	317.7	311.9	306.1
45°	406.4	381.4	360.3	342.1	328.4	315.8	306.9	293.6	288.4	276.6	271.7
47.5°	369.6	346.2	326.1	308.9	295.4	287.2	274.3	263.8	255.4	248.2	242.0
50°	343.3	323.9	304.5	289.1	277.0	265.3	251.9	246.7	233.7	230.0	226.5
52.5°	319.4	301.0	283.1	268.1	256.0	244.5	232.8	225.9	217.2	213.6	211.0
55°	285.9	268.1	251.1	237.7	225.6	213.9	206.6	198.1	194.1	191.2	188.1
57.5°	252.2	236.2	223.2	209.7	197.5	188.2	179.7	174.7	170.5	166.8	162.9
60°	230.9	215.6	203.8	191.2	178.7	171.0	164.6	158.5	153.7	148.0	146.4
62.5°	208.3	194.8	184.1	171.8	161.0	153.9	147.7	142.0	136.2	127.9	125.6
65°	177.1	166.6	155.3	145.2	135.5	128.6	119.7	113.2	110.8	110.0	109.6
67.5°	149.0	139.0	129.3	119.0	110.1	103.8	99.3	98.2	96.6	96.1	95.0
70°	130.2	120.9	111.2	101.5	93.0	91.8	90.2	88.6	86.5	85.7	84.9
72.5°	113.4	103.8	94.0	86.3	82.6	81.1	79.5	77.9	76.5	75.7	75.2
75°	86.9	78.0	71.6	68.8	66.7	65.5	63.1	61.9	61.1	59.8	59.4
77.5°	62.6	57.6	54.6	52.8	50.7	49.4	48.0	46.8	45.9	45.7	45.1
80°	47.7	45.3	43.3	40.9	40.0	38.4	38.0	36.8	37.2	36.0	36.0
82.5°	37.1	34.0	32.2	31.1	30.3	29.1	28.6	28.0	28.1	27.3	27.3
85°	19.0	18.2	17.3	16.6	16.6	15.4	15.8	15.4	15.4	14.6	14.2
87.5°	8.6	8.7	8.5	8.9	9.3	9.3	9.6	9.5	9.8	10.1	9.9
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: P331821-927

CATALOG NUMBER: S122RDIW-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: P331821-927

CATALOG NUMBER: S122RDIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1117.5	1118.2	1117.2	1117.8	1117.2	1118.2	1117.5	1121.1	1121.7	1122.4	1121.7
5°	1041.2	1036.4	1035.6	1034.4	1035.6	1036.4	1041.2	1043.3	1044.9	1048.1	1053.8
7.5°	950.2	949.4	947.5	944.6	947.5	949.4	950.2	957.1	962.7	968.9	980.5
10°	891.6	889.6	889.2	886.4	889.2	889.6	891.6	900.6	907.0	915.9	931.7
12.5°	823.1	810.0	808.7	801.6	808.7	810.0	823.1	834.6	852.0	860.5	877.3
15°	700.8	698.4	690.2	685.0	690.2	698.4	700.8	710.5	716.9	740.4	767.5
17.5°	630.9	623.0	620.4	619.3	620.4	623.0	630.9	635.6	644.8	657.2	673.5
20°	585.9	578.7	577.4	576.6	577.4	578.7	585.9	591.6	598.9	612.2	629.2
22.5°	554.8	547.2	544.2	541.7	544.2	547.2	554.8	559.3	565.9	576.3	587.8
25°	501.8	499.0	497.4	496.5	497.4	499.0	501.8	505.9	512.3	526.5	538.6
27.5°	460.3	454.1	452.9	450.8	452.9	454.1	460.3	467.5	474.3	480.6	491.5
30°	436.7	434.7	431.9	429.4	431.9	434.7	436.7	440.4	444.8	455.7	466.3
32.5°	408.9	407.2	404.7	403.5	404.7	407.2	408.9	413.8	423.1	429.8	437.4
35°	378.1	372.4	370.0	366.4	370.0	372.4	378.1	382.1	385.8	391.4	405.2
37.5°	345.5	342.5	339.1	340.3	339.1	342.5	345.5	347.2	354.9	362.7	368.7
40°	320.3	318.2	317.4	317.0	317.4	318.2	320.3	325.5	334.9	338.4	347.4
42.5°	300.2	294.6	292.6	292.5	292.6	294.6	300.2	306.1	311.9	317.7	327.0
45°	269.7	264.4	260.8	261.3	260.8	264.4	269.7	271.7	276.6	288.4	293.6
47.5°	238.5	238.4	236.1	236.8	236.1	238.4	238.5	242.0	248.2	255.4	263.8
50°	223.6	221.2	219.6	220.0	219.6	221.2	223.6	226.5	230.0	233.7	246.7
52.5°	209.4	207.3	206.0	207.7	206.0	207.3	209.4	211.0	213.6	217.2	225.9
55°	186.0	183.5	183.2	182.8	183.2	183.5	186.0	188.1	191.2	194.1	198.1
57.5°	159.9	158.3	155.8	154.8	155.8	158.3	159.9	162.9	166.8	170.5	174.7
60°	141.1	137.9	133.9	133.4	133.9	137.9	141.1	146.4	148.0	153.7	158.5
62.5°	124.0	123.3	122.6	122.5	122.6	123.3	124.0	125.6	127.9	136.2	142.0
65°	108.8	108.4	108.8	109.2	108.8	108.4	108.8	109.6	110.0	110.8	113.2
67.5°	94.8	94.0	93.3	93.6	93.3	94.0	94.8	95.0	96.1	96.6	98.2
70°	84.1	83.7	83.3	83.3	83.3	83.7	84.1	84.9	85.7	86.5	88.6
72.5°	73.8	73.7	73.3	73.0	73.3	73.7	73.8	75.2	75.7	76.5	77.9
75°	59.0	58.2	58.2	58.2	58.2	58.2	59.0	59.4	59.8	61.1	61.9
77.5°	45.0	44.6	44.1	43.8	44.1	44.6	45.0	45.1	45.7	45.9	46.8
80°	35.6	35.2	34.8	34.8	34.8	35.2	35.6	36.0	36.0	37.2	36.8
82.5°	27.2	26.8	26.7	26.4	26.7	26.8	27.2	27.3	27.3	28.1	28.0
85°	14.6	15.0	14.6	15.4	14.6	15.0	14.6	14.2	14.6	15.4	15.4
87.5°	10.0	9.7	10.2	10.0	10.2	9.7	10.0	9.9	10.1	9.8	9.5
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: P331821-927

CATALOG NUMBER: S122RDIW-S675D1440U927-4F0-1E-UDD-A

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: P331821-927

CATALOG NUMBER: S122RDIW-S675D1440U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1119.1	1123.6	1130.4	1134.3	1140.8	1145.0	1147.3	1151.5	1153.7	1161.8	1170.3
5°	1056.6	1063.1	1074.4	1084.9	1096.2	1107.9	1116.5	1126.2	1135.0	1150.4	1166.6
7.5°	985.0	994.0	1011.5	1028.3	1048.0	1064.5	1079.2	1095.7	1110.6	1132.6	1155.6
10°	931.3	947.1	970.1	985.9	1011.8	1028.3	1051.4	1069.5	1090.2	1119.3	1145.2
12.5°	885.0	904.0	922.5	944.4	967.7	995.3	1020.6	1044.0	1068.5	1098.6	1129.0
15°	801.1	828.5	857.3	879.5	911.1	940.2	969.7	1001.2	1031.2	1067.1	1106.8
17.5°	693.0	724.8	773.2	811.3	848.3	877.5	914.0	952.2	987.5	1030.9	1075.0
20°	644.2	667.7	700.4	751.7	807.6	838.7	875.8	917.9	958.4	1005.7	1053.0
22.5°	605.0	625.9	652.2	692.2	754.5	796.9	835.8	878.5	925.3	973.7	1026.1
25°	549.1	563.7	591.2	623.5	666.4	736.3	778.8	821.7	872.7	924.4	984.2
27.5°	507.2	520.2	538.1	569.0	600.9	651.1	718.7	765.4	816.2	874.4	936.5
30°	475.2	490.5	510.3	532.2	567.0	606.2	673.7	727.9	778.0	837.9	904.2
32.5°	451.9	464.0	480.9	503.0	532.0	569.6	623.5	689.4	738.2	801.3	870.5
35°	413.7	427.9	441.6	462.6	486.1	520.5	561.3	631.6	680.2	742.4	812.0
37.5°	382.2	390.9	406.1	422.7	447.5	473.1	508.5	571.6	624.1	685.2	756.5
40°	358.3	369.2	380.5	399.1	419.3	444.0	478.8	525.7	585.9	645.8	715.3
42.5°	335.0	348.8	360.8	373.2	395.4	420.1	448.4	488.1	549.7	606.3	673.9
45°	306.9	315.8	328.4	342.1	360.3	381.4	406.4	441.2	500.2	549.1	612.6
47.5°	274.3	287.2	295.4	308.9	326.1	346.2	369.6	399.6	447.4	493.3	552.2
50°	251.9	265.3	277.0	289.1	304.5	323.9	343.3	372.4	410.8	459.0	514.0
52.5°	232.8	244.5	256.0	268.1	283.1	301.0	319.4	344.9	377.9	422.1	475.5
55°	206.6	213.9	225.6	237.7	251.1	268.1	285.9	307.3	335.6	372.8	416.1
57.5°	179.7	188.2	197.5	209.7	223.2	236.2	252.2	271.6	294.0	327.6	364.6
60°	164.6	171.0	178.7	191.2	203.8	215.6	230.9	247.1	268.1	297.2	328.8
62.5°	147.7	153.9	161.0	171.8	184.1	194.8	208.3	225.4	243.2	269.7	297.4
65°	119.7	128.6	135.5	145.2	155.3	166.6	177.1	190.8	206.6	227.7	252.3
67.5°	99.3	103.8	110.1	119.0	129.3	139.0	149.0	159.7	173.4	189.6	209.2
70°	90.2	91.8	93.0	101.5	111.2	120.9	130.2	140.3	152.0	165.4	182.4
72.5°	79.5	81.1	82.6	86.3	94.0	103.8	113.4	120.9	132.0	143.1	156.9
75°	63.1	65.5	66.7	68.8	71.6	78.0	86.9	94.2	100.7	109.2	120.1
77.5°	48.0	49.4	50.7	52.8	54.6	57.6	62.6	69.2	75.2	80.2	87.7
80°	38.0	38.4	40.0	40.9	43.3	45.3	47.7	53.0	59.0	61.1	66.3
82.5°	28.6	29.1	30.3	31.1	32.2	34.0	37.1	38.4	43.2	45.9	49.2
85°	15.8	15.4	16.6	16.6	17.3	18.2	19.0	21.0	22.3	25.5	26.3
87.5°	9.6	9.3	9.3	8.9	8.5	8.7	8.6	8.3	8.5	8.9	9.6
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: P331821-927

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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: P331821-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1170.6	1171.6	1178.1	1180.9	1186.8	1189.0	1191.6	1191.0	1191.0	1192.2	1201.3
5°	1173.1	1181.1	1193.3	1205.0	1216.3	1226.1	1232.6	1239.0	1241.4	1253.2	1263.7
7.5°	1168.9	1183.8	1203.8	1221.7	1243.1	1259.9	1273.7	1286.3	1294.9	1311.9	1329.4
10°	1163.4	1184.4	1207.0	1230.1	1259.6	1281.8	1304.5	1321.9	1327.5	1353.0	1367.6
12.5°	1152.4	1180.5	1209.3	1239.1	1268.0	1298.7	1323.6	1341.0	1360.9	1383.8	1410.6
15°	1135.9	1168.2	1205.9	1244.3	1285.5	1322.7	1349.4	1379.7	1401.5	1426.6	1450.1
17.5°	1112.1	1153.8	1201.7	1246.1	1293.8	1333.8	1370.5	1399.6	1415.0	1429.3	1432.7
20°	1093.4	1138.3	1194.5	1247.1	1294.8	1340.9	1377.3	1401.5	1405.6	1406.0	1384.6
22.5°	1073.0	1123.7	1182.6	1236.4	1293.5	1344.8	1373.1	1383.5	1367.4	1340.0	1298.5
25°	1035.6	1094.2	1162.6	1224.0	1286.3	1334.8	1344.6	1326.4	1270.1	1211.1	1136.3
27.5°	995.0	1060.9	1134.2	1202.5	1268.8	1298.9	1277.9	1212.4	1111.1	1023.1	916.5
30°	965.3	1039.3	1111.2	1187.6	1249.1	1262.0	1213.9	1117.3	999.2	866.6	760.3
32.5°	931.3	1008.8	1087.9	1167.0	1218.4	1205.8	1126.2	1007.3	868.9	738.5	637.9
35°	882.7	962.8	1048.1	1127.4	1160.2	1105.6	986.7	831.8	690.2	568.5	499.4
37.5°	826.7	913.9	1002.6	1075.4	1073.0	982.1	820.1	660.3	541.3	469.3	420.1
40°	786.9	875.0	970.9	1032.4	1006.1	887.6	712.1	561.3	474.4	416.9	380.9
42.5°	748.8	837.2	932.4	981.3	935.6	789.9	615.1	496.9	425.2	380.3	351.2
45°	683.8	777.2	865.4	892.5	810.8	650.2	497.4	411.6	363.9	330.8	310.5
47.5°	620.3	712.2	792.7	793.1	682.6	527.3	419.5	356.2	315.5	289.9	275.1
50°	581.5	668.8	736.3	725.9	600.5	469.1	375.3	320.7	286.7	266.9	251.5
52.5°	537.8	622.6	681.0	651.1	530.9	412.8	335.5	289.6	261.5	244.2	230.5
55°	474.4	549.5	590.8	545.5	433.1	343.3	283.4	247.5	226.5	211.9	200.2
57.5°	411.9	474.0	499.9	447.3	356.7	284.7	239.8	212.8	191.9	181.5	175.4
60°	372.8	425.8	444.0	385.8	310.1	249.1	212.3	187.2	171.8	165.0	158.9
62.5°	334.3	377.6	385.2	331.8	270.4	218.0	186.4	165.2	155.0	148.5	142.8
65°	277.4	308.6	304.9	262.1	213.9	173.1	150.0	137.0	129.4	120.1	110.0
67.5°	228.4	247.4	235.9	203.8	163.3	134.5	119.5	109.6	100.1	91.3	89.0
70°	197.3	208.3	196.1	166.6	133.9	112.8	100.7	89.0	83.3	81.3	77.6
72.5°	167.5	171.3	158.3	132.9	108.9	93.4	81.6	75.0	72.0	70.3	68.0
75°	125.8	122.9	111.6	91.8	75.7	65.1	61.5	59.0	57.0	55.4	54.2
77.5°	88.3	84.2	74.1	61.2	52.7	47.6	45.5	44.1	43.2	42.4	41.2
80°	66.3	63.5	53.4	43.6	40.0	37.6	36.4	34.8	34.8	34.0	32.7
82.5°	48.6	45.4	36.5	32.0	30.0	28.5	27.6	26.7	26.4	26.5	25.7
85°	25.5	20.6	18.2	17.3	16.2	15.4	15.8	15.0	15.0	15.0	14.6
87.5°	8.6	7.4	7.7	7.9	8.7	9.1	9.2	9.6	10.3	10.2	10.9
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°	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1204.5	1208.7	1210.7	1210.7	1213.0	1212.0	1211.0
5°	1273.7	1281.4	1283.1	1290.4	1295.6	1294.0	1294.8
7.5°	1342.6	1354.9	1367.1	1372.8	1373.6	1376.9	1378.1
10°	1385.0	1395.1	1414.1	1411.3	1425.4	1433.5	1420.1
12.5°	1425.8	1439.4	1452.5	1456.2	1464.3	1466.8	1461.6
15°	1462.6	1469.9	1470.7	1468.7	1471.1	1469.1	1461.4
17.5°	1428.1	1416.3	1392.4	1381.1	1372.1	1358.8	1353.5
20°	1371.2	1336.4	1296.0	1279.8	1260.8	1223.6	1232.6
22.5°	1248.3	1208.6	1168.2	1121.0	1098.4	1063.2	1061.0
25°	1057.0	988.7	913.5	860.9	830.2	795.0	779.7
27.5°	821.8	735.8	674.1	642.9	614.6	586.7	585.5
30°	667.2	602.5	554.8	528.1	510.7	499.0	501.5
32.5°	562.4	518.1	485.9	463.7	450.9	442.0	441.9
35°	459.8	429.4	408.8	399.5	390.2	383.7	384.1
37.5°	393.5	375.3	363.8	353.5	347.7	344.5	342.8
40°	359.5	344.5	335.6	329.5	324.7	320.3	319.5
42.5°	332.6	320.3	311.3	306.6	302.1	298.9	298.1
45°	295.2	285.1	277.0	271.7	269.7	266.9	266.9
47.5°	262.6	252.6	246.4	243.0	239.6	237.7	237.6
50°	240.6	232.9	227.3	225.2	222.4	221.2	220.8
52.5°	220.9	215.2	211.1	209.7	208.5	206.9	207.2
55°	194.1	190.8	189.3	188.1	186.0	183.5	185.2
57.5°	171.5	168.8	164.5	160.7	158.8	157.1	157.7
60°	155.7	150.0	144.3	139.9	138.7	135.1	135.1
62.5°	135.6	127.7	120.7	118.3	117.0	115.3	115.0
65°	104.3	101.1	99.5	97.8	97.0	97.0	96.3
67.5°	86.4	85.2	83.4	82.9	82.1	81.9	81.7
70°	76.4	74.8	74.0	73.6	72.8	73.2	72.0
72.5°	66.7	65.4	65.3	64.2	63.7	63.8	62.9
75°	52.6	52.6	52.1	51.7	50.9	50.5	50.9
77.5°	40.4	40.5	39.8	39.7	39.6	39.7	39.3
80°	32.3	32.7	32.3	31.9	31.5	31.9	31.5
82.5°	25.6	25.0	24.9	24.8	24.7	24.5	24.4
85°	14.6	15.0	14.6	14.2	14.2	14.2	14.6
87.5°	10.8	11.0	11.2	11.2	11.4	11.5	11.2
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)