

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: P331549-930

Luminaire Tested: **S122DIW-S675D1440U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331549-930  
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-S675D1440U930-4F0-1E-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: 7089.3 lumens  
Efficiency: N/A  
Efficacy: 104.1 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

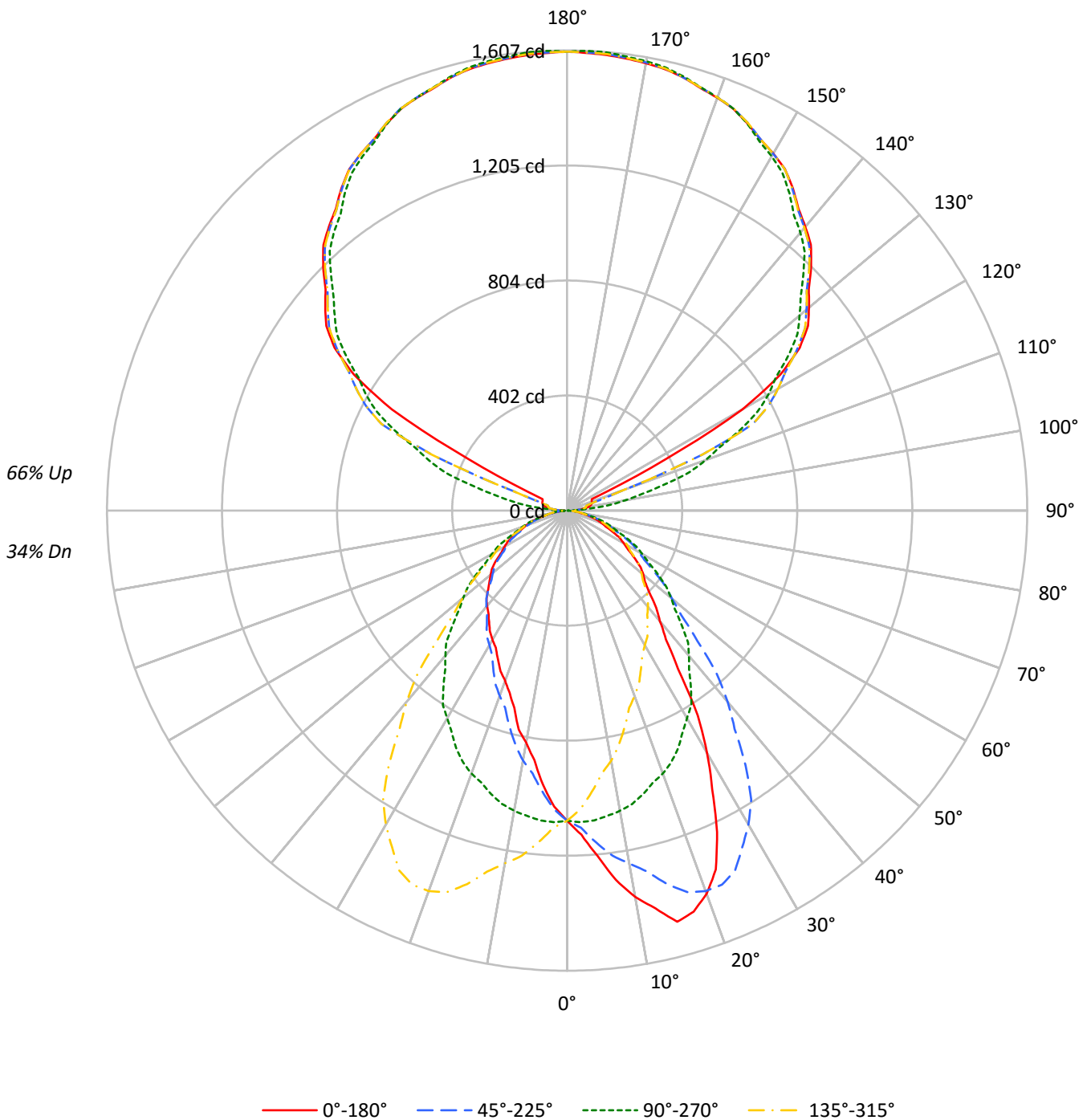
Input Watts (W): 68.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	17486	17486	17486	17486
5°	19603	17598	15595	17598
10°	22463	17454	13496	17454
15°	24849	17135	11925	17135
20°	24471	16790	10869	16790
25°	22066	16335	10203	16335
30°	18233	15605	9715	15605
35°	13291	14840	9368	14840
40°	10614	13940	9177	13940
45°	9275	12896	8914	12896
50°	8719	11886	8741	11886
55°	8037	10860	8504	10860
60°	7363	9771	8147	9771
65°	6709	8795	7790	8795
70°	6090	7841	7270	7841
75°	5402	6775	6438	6775
80°	4649	5607	5188	5607
85°	4168	4168	3075	4168



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	1.5
10°-20°	299.8	4.2
20°-30°	435.1	6.1
30°-40°	459.2	6.5
40°-50°	406.6	5.7
50°-60°	324.5	4.6
60°-70°	220.5	3.1
70°-80°	113.1	1.6
80°-90°	31.2	0.4
90°-100°	53.5	0.8
100°-110°	196.0	2.8
110°-120°	524.0	7.4
120°-130°	865.0	12.2
130°-140°	919.9	13.0
140°-150°	855.0	12.1
150°-160°	687.4	9.7
160°-170°	443.0	6.2
170°-180°	152.5	2.2
0°-30°	838.1	11.8
0°-40°	1297.3	18.3
0°-60°	2028.3	28.6
0°-90°	2393.1	33.8
90°-120°	773.5	10.9
90°-150°	3413.3	48.1
90°-180°	4696.0	66.2
0°-180°	7089.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1083	1083	1083	1083	1083	
5°	1210	1086	962	1086	1210	121
15°	1487	1025	713	1025	1487	410
25°	1239	917	573	917	1239	560
35°	674	753	475	753	674	439
45°	406	565	390	565	406	319
55°	286	386	302	386	286	256
65°	176	230	204	230	176	175
75°	87	109	103	109	87	93
85°	22	22	17	22	22	25
90°	31	1	31	1	31	15
95°	50	75	50	75	50	47
105°	88	352	88	352	88	92
115°	95	667	95	667	95	238
125°	991	943	991	943	991	858
135°	1205	1166	1205	1166	1205	929
145°	1374	1353	1374	1353	1374	859
155°	1491	1490	1491	1490	1491	688
165°	1566	1570	1566	1570	1566	442
175°	1597	1606	1597	1606	1597	152
180°	1602	1602	1602	1602	1602	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1132.9	1133.2	1133.9	1128.5	1127.9	1127.9	1123.2	1119.2	1114.6	1108.2	1108.9
5°	1209.5	1214.1	1215.7	1210.7	1203.2	1202.4	1195.3	1183.7	1172.8	1164.1	1157.9
7.5°	1300.9	1302.7	1298.6	1292.0	1286.5	1276.5	1263.3	1250.4	1232.3	1215.8	1203.5
10°	1370.1	1372.6	1365.5	1356.0	1348.1	1336.4	1317.3	1297.7	1274.0	1251.1	1232.7
12.5°	1422.7	1428.9	1419.8	1418.5	1405.0	1389.0	1366.2	1356.3	1322.9	1291.0	1271.4
15°	1486.6	1486.2	1487.1	1479.2	1469.2	1466.6	1442.5	1416.3	1369.3	1350.5	1318.1
17.5°	1468.2	1474.5	1477.4	1477.3	1477.1	1475.5	1467.8	1451.2	1427.7	1397.3	1359.8
20°	1424.2	1432.6	1433.8	1443.4	1448.8	1455.9	1458.7	1454.2	1439.7	1414.2	1381.8
22.5°	1356.3	1358.6	1362.5	1377.4	1389.2	1406.9	1416.2	1431.6	1426.0	1413.6	1386.4
25°	1238.6	1234.4	1249.0	1256.5	1283.5	1311.8	1332.3	1354.7	1374.7	1386.7	1378.8
27.5°	1097.2	1091.0	1112.8	1132.7	1154.7	1185.4	1217.2	1254.7	1285.9	1324.9	1338.3
30°	978.0	981.8	1002.7	1023.9	1057.1	1100.4	1136.2	1177.5	1222.0	1265.7	1296.0
32.5°	849.5	864.0	877.1	909.6	938.9	987.2	1039.7	1091.2	1146.7	1196.4	1243.4
35°	674.3	690.9	709.2	733.0	774.1	822.0	873.2	942.6	1018.5	1086.3	1142.1
37.5°	567.5	564.8	575.4	592.5	625.9	664.5	723.4	792.1	881.3	961.0	1039.7
40°	503.6	501.9	509.4	525.2	550.7	578.9	630.6	690.9	773.7	871.1	964.7
42.5°	459.7	460.6	464.8	476.0	493.3	516.7	555.3	606.7	682.5	774.2	874.8
45°	406.2	409.1	413.7	419.1	429.1	448.3	469.9	506.5	566.5	643.0	742.1
47.5°	367.8	367.9	372.5	377.2	383.2	394.0	411.6	434.6	476.9	539.2	624.4
50°	347.1	344.2	347.6	351.2	357.5	365.0	376.7	398.3	426.6	477.0	548.1
52.5°	321.8	321.9	324.9	326.3	331.9	339.3	350.0	365.0	390.6	430.0	488.5
55°	285.5	287.6	289.3	291.7	296.8	302.1	310.5	320.5	340.5	370.0	413.3
57.5°	251.4	252.0	253.7	258.4	261.6	266.6	274.5	283.6	296.6	318.5	351.0
60°	228.0	228.0	231.4	233.5	237.7	242.6	248.9	257.6	269.3	287.1	313.4
62.5°	206.8	206.4	207.7	211.2	214.3	219.0	225.3	232.7	243.6	259.5	281.1
65°	175.6	174.8	177.3	178.1	181.5	186.1	191.0	198.9	207.7	219.3	238.5
67.5°	145.7	146.7	148.0	149.6	151.4	156.2	159.6	165.2	172.5	182.2	195.2
70°	129.0	129.0	129.0	130.3	132.7	135.3	138.6	143.2	150.3	158.6	170.2
72.5°	110.4	111.7	113.0	112.3	115.4	116.9	120.9	123.5	130.3	135.6	145.9
75°	86.6	86.6	86.6	88.6	89.9	91.2	93.7	96.1	99.5	106.2	111.5
77.5°	64.6	64.4	64.8	65.3	66.7	68.2	68.9	71.2	74.3	77.3	81.9
80°	50.0	50.8	51.2	52.0	52.0	52.8	53.2	56.2	58.3	60.3	63.3
82.5°	38.6	38.8	38.9	39.1	39.4	39.9	40.9	41.9	42.6	44.4	46.6
85°	22.5	22.1	22.1	22.9	22.5	22.5	23.3	24.1	24.1	24.5	25.8
87.5°	14.9	14.8	15.1	14.6	14.5	14.7	14.4	13.8	13.9	13.9	13.9
90°	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8	24.5	23.2	21.1
92.5°	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2	27.6	26.9	25.8
95°	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8	46.5	45.2	43.5
97.5°	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6	61.6	60.5	56.3
100°	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2	68.2	66.1	61.7
102.5°	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3	70.6	67.9	104.6
105°	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4	73.5	70.8	141.0
107.5°	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3	96.1	99.1	183.4
110°	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4	177.2	202.9	277.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8	417.8	511.8	530.2
115°	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9	596.1	715.4	709.0
117.5°	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7	763.6	792.5	788.0
120°	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1	853.0	849.9	845.3
122.5°	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4	906.5	904.7	899.6
125°	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4	981.6	979.8	974.9
127.5°	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8	1050.2	1047.6	1043.9
130°	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8	1094.0	1091.1	1088.3
132.5°	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5	1137.2	1134.7	1131.9
135°	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6	1198.1	1195.5	1193.2
137.5°	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4	1254.8	1252.3	1249.7
140°	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0	1291.8	1289.4	1286.6
142.5°	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0	1325.8	1323.7	1320.5
145°	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3	1373.5	1371.7	1367.3
147.5°	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7	1415.3	1414.0	1409.7
150°	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1	1440.6	1439.0	1434.8
152.5°	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3	1463.7	1462.2	1458.2
155°	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6	1495.0	1493.5	1490.4
157.5°	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0	1521.3	1519.5	1517.3
160°	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3	1536.8	1535.2	1533.7
162.5°	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7	1550.9	1549.2	1547.8
165°	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5	1565.8
167.5°	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8	1583.0	1581.2	1580.5
170°	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2	1590.4	1588.6	1588.0
172.5°	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7	1595.9	1594.2	1593.7
175°	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8	1602.0	1600.2	1599.7
177.5°	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4	1603.0	1601.6	1601.3
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1111.3	1108.6	1106.9	1100.9	1095.6	1090.3	1088.6	1089.2	1082.0	1075.0	1072.0
5°	1154.5	1146.2	1138.3	1127.1	1113.8	1099.2	1091.7	1085.8	1071.3	1055.5	1046.4
7.5°	1193.4	1181.5	1166.2	1145.0	1125.7	1102.8	1088.2	1075.3	1053.9	1031.7	1018.0
10°	1217.0	1200.7	1181.1	1155.4	1131.6	1103.8	1084.2	1064.6	1039.7	1013.0	996.4
12.5°	1237.3	1215.4	1196.1	1163.0	1135.0	1100.1	1076.8	1049.3	1023.0	991.4	975.1
15°	1285.6	1245.3	1208.6	1171.2	1136.6	1087.9	1062.2	1025.1	990.5	951.5	932.7
17.5°	1323.0	1277.7	1219.9	1172.3	1132.0	1078.2	1040.2	995.9	955.0	910.3	884.8
20°	1344.3	1292.2	1230.3	1173.7	1125.4	1063.8	1022.6	977.2	929.4	879.0	851.5
22.5°	1357.0	1302.3	1241.0	1168.7	1112.1	1052.1	1000.3	950.6	902.0	847.7	818.9
25°	1361.0	1311.0	1246.1	1164.5	1095.4	1027.6	965.2	916.9	858.2	807.4	765.4
27.5°	1341.2	1305.4	1242.9	1156.7	1076.2	996.9	927.3	872.6	810.7	755.5	713.3
30°	1316.9	1296.0	1235.3	1148.7	1060.9	975.6	898.9	837.0	775.3	719.6	676.3
32.5°	1279.2	1274.7	1221.3	1137.3	1044.6	948.6	869.4	806.7	738.4	683.6	642.4
35°	1205.3	1225.3	1191.6	1112.1	1013.8	910.2	824.5	752.9	682.2	629.7	591.0
37.5°	1106.3	1155.8	1147.0	1075.1	972.4	868.5	773.8	699.0	631.5	578.6	540.6
40°	1038.0	1101.2	1110.4	1046.8	943.1	836.2	735.8	661.4	595.6	547.3	509.0
42.5°	964.7	1038.7	1063.8	1012.8	911.1	802.2	701.9	624.7	559.6	512.7	478.7
45°	842.0	939.8	985.1	956.0	857.8	746.2	643.0	564.8	505.6	461.5	435.4
47.5°	727.2	834.1	895.0	884.8	798.4	687.9	586.0	510.9	453.3	418.1	394.6
50°	646.0	755.8	829.5	832.8	755.8	646.4	544.0	473.2	420.4	387.5	368.4
52.5°	575.4	680.2	760.6	778.2	708.2	603.1	506.4	435.9	389.4	359.1	342.0
55°	483.2	571.9	660.9	693.4	637.2	537.3	447.8	385.8	342.1	321.3	306.3
57.5°	401.7	475.6	557.9	593.8	559.1	473.6	389.7	335.9	300.4	282.2	270.7
60°	358.7	417.0	490.2	533.1	503.2	427.1	353.8	302.6	273.5	257.2	246.4
62.5°	318.8	370.4	432.4	471.6	455.3	383.4	317.8	272.6	247.4	232.2	224.5
65°	263.0	303.9	351.7	387.9	377.1	322.5	268.9	230.2	210.2	198.1	191.8
67.5°	216.6	246.1	279.2	311.0	302.2	263.6	220.5	190.4	175.5	165.1	161.3
70°	187.3	209.8	239.3	264.7	257.6	226.0	191.8	166.1	153.2	144.4	140.6
72.5°	159.3	177.8	200.3	221.1	216.3	190.0	161.6	142.1	132.2	124.1	121.0
75°	120.3	134.4	148.1	161.9	160.6	140.2	123.6	108.6	100.7	94.5	93.2
77.5°	88.8	96.7	106.1	114.2	111.9	100.3	87.2	78.7	72.8	68.6	68.0
80°	67.8	72.4	79.1	84.9	82.0	77.0	66.6	60.3	56.2	52.0	50.4
82.5°	49.2	53.8	57.8	60.9	58.7	54.1	47.6	43.4	40.8	38.1	37.3
85°	25.8	28.3	30.0	30.8	30.0	27.1	24.1	22.5	20.4	19.2	18.8
87.5°	13.8	13.4	13.0	13.1	11.6	11.0	9.1	7.6	7.8	8.0	7.9
90°	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1	4.0	6.8	9.7
92.5°	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4	23.2	22.9	22.7
95°	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3	66.9	58.4	49.9
97.5°	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6	125.6	101.7	77.7
100°	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2	169.9	134.6	99.3
102.5°	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4	259.0	251.5	244.0
105°	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5	360.2	367.9	375.7
107.5°	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6	456.8	463.1	469.3
110°	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7	519.1	524.5	529.9





TEST NUMBER: P331549-930

CATALOG NUMBER: S122DIW-S675D1440U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1	577.8	582.6	587.4
115°	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8	671.2	675.5	679.9
117.5°	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5	755.4	760.3	765.2
120°	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7	815.5	819.4	823.3
122.5°	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6	867.7	871.8	875.9
125°	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7	946.1	949.4	952.8
127.5°	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4	1018.1	1021.8	1025.5
130°	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8	1064.0	1068.0	1072.2
132.5°	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2	1109.7	1113.2	1116.7
135°	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5	1170.6	1174.8	1178.8
137.5°	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5	1230.4	1233.3	1236.2
140°	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4	1269.4	1271.5	1273.6
142.5°	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8	1302.6	1304.5	1306.4
145°	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2	1352.9	1352.7	1352.4
147.5°	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9	1397.9	1396.9	1396.0
150°	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6	1426.8	1425.0	1423.2
152.5°	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6	1451.6	1449.6	1447.6
155°	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0	1487.7	1485.4	1483.0
157.5°	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6	1516.6	1514.7	1512.7
160°	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1533.7	1532.2	1530.6
162.5°	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0	1548.6	1547.0	1545.5
165°	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0	1568.5	1566.9	1565.4
167.5°	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9	1583.3	1581.8	1580.2
170°	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3	1591.7	1590.2	1588.6
172.5°	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8	1597.3	1595.7	1594.2
175°	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0	1604.2	1602.4	1600.6
177.5°	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1	1605.7	1604.3	1602.8
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1068.6	1066.7	1059.6	1056.0	1049.9	1044.3	1040.6	1042.4	1043.7	1043.0	1042.0
5°	1038.0	1030.0	1018.0	1007.6	1000.1	986.3	980.6	977.6	975.2	972.2	969.3
7.5°	1001.5	989.0	971.8	956.9	942.9	925.9	916.2	910.3	904.3	897.7	891.9
10°	975.6	958.1	939.8	918.9	902.3	886.9	873.2	864.1	855.7	847.8	842.0
12.5°	948.3	928.1	905.5	877.0	858.7	836.7	834.5	818.4	805.4	800.5	793.7
15°	904.8	876.5	847.8	814.1	799.5	779.5	767.0	754.6	743.3	735.4	733.4
17.5°	855.4	818.8	790.3	766.1	742.2	721.7	710.2	700.2	691.0	680.4	679.0
20°	817.8	786.2	755.0	733.8	709.2	688.4	674.3	664.2	656.3	650.1	644.7
22.5°	782.2	747.5	719.0	695.8	671.6	654.8	643.6	634.0	627.4	620.4	615.4
25°	725.0	698.0	666.8	640.5	620.5	609.8	600.5	592.2	588.1	583.5	577.7
27.5°	675.0	644.9	615.7	595.4	577.9	568.3	561.7	556.1	552.2	549.5	546.3
30°	639.7	609.3	586.4	566.5	551.9	542.3	538.2	534.8	530.3	528.6	526.9
32.5°	605.8	578.4	558.8	541.4	527.6	521.3	517.5	514.5	510.9	509.2	505.9
35°	557.7	534.8	515.7	506.1	494.9	489.4	486.6	482.3	479.1	477.4	477.0
37.5°	512.5	492.6	480.0	467.7	463.0	459.7	455.7	452.8	451.8	451.6	451.2
40°	483.2	467.0	455.8	445.7	443.7	438.6	435.4	432.8	432.8	433.3	432.8
42.5°	456.6	442.0	432.1	423.5	421.0	418.0	414.7	414.5	415.2	416.6	415.2
45°	416.2	405.8	398.7	394.5	390.0	387.0	386.6	387.9	388.3	388.7	390.0
47.5°	379.0	372.2	365.7	361.2	359.1	358.7	358.2	360.4	362.3	363.1	365.0
50°	357.1	349.2	343.8	340.9	339.2	338.3	339.2	341.7	343.3	345.4	346.7
52.5°	332.5	326.9	323.1	320.9	320.2	320.7	320.9	323.8	326.4	327.1	327.8
55°	298.4	294.2	293.4	289.7	291.3	290.9	293.0	294.6	297.2	299.6	300.1
57.5°	264.5	261.1	258.9	259.2	259.7	261.5	263.3	266.2	268.9	271.5	271.7
60°	241.8	240.1	238.9	238.9	239.7	242.2	244.3	247.2	248.9	250.5	251.8
62.5°	221.2	219.5	218.3	218.9	221.1	222.6	225.0	226.6	228.2	229.9	230.5
65°	188.5	187.7	189.0	189.8	190.2	192.2	195.2	196.4	198.1	198.9	201.9
67.5°	158.5	158.7	158.5	159.6	162.1	162.6	165.3	168.2	168.5	170.2	172.0
70°	138.2	139.0	139.8	140.6	142.8	143.6	145.7	146.9	148.5	149.9	151.1
72.5°	119.5	119.7	120.5	120.3	122.1	123.9	125.7	126.9	128.6	130.2	131.4
75°	92.0	92.0	92.8	93.2	95.3	97.4	96.9	97.8	99.5	101.1	102.0
77.5°	67.2	66.3	67.2	67.6	68.2	70.0	70.4	71.5	73.4	72.8	73.8
80°	51.2	50.0	51.2	51.6	51.6	53.7	53.7	54.5	55.8	54.5	55.8
82.5°	36.5	36.0	36.9	36.9	37.6	37.7	38.4	38.6	39.8	39.2	39.8
85°	18.3	17.9	18.3	17.9	18.3	18.8	18.8	18.3	18.3	19.2	17.9
87.5°	8.2	8.3	8.4	8.8	8.9	9.0	8.9	9.1	9.4	9.0	9.2
90°	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8	27.1	28.4	29.3
92.5°	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2	28.9	29.6	30.1
95°	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8	49.1	50.4	50.9
97.5°	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6	63.6	64.7	65.3
100°	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2	72.3	74.4	75.7
102.5°	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3	76.0	78.7	80.4
105°	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4	79.2	82.1	84.0
107.5°	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3	90.3	87.5	86.6
110°	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4	125.6	99.9	87.5



TEST NUMBER: P331549-930

CATALOG NUMBER: S122DIW-S675D1440U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8	229.8	135.8	89.2
115°	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9	357.5	238.2	169.3
117.5°	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7	705.9	677.0	632.1
120°	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1	859.2	862.3	846.4
122.5°	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4	910.3	912.1	909.6
125°	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4	985.2	987.0	988.3
127.5°	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8	1055.4	1058.0	1059.5
130°	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8	1099.7	1102.4	1103.8
132.5°	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5	1142.0	1144.4	1145.5
135°	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6	1203.2	1205.8	1206.8
137.5°	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4	1259.9	1262.4	1263.2
140°	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0	1296.4	1298.7	1299.2
142.5°	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0	1330.1	1332.2	1332.6
145°	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3	1377.1	1379.0	1379.2
147.5°	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7	1418.0	1419.4	1419.4
150°	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1	1443.7	1445.2	1445.3
152.5°	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3	1466.8	1468.4	1468.3
155°	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6	1498.1	1499.7	1499.4
157.5°	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0	1524.7	1526.5	1526.3
160°	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3	1539.9	1541.4	1541.3
162.5°	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7	1554.4	1556.2	1555.9
165°	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8
167.5°	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8	1586.6	1588.4	1588.1
170°	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2	1594.0	1595.8	1595.5
172.5°	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7	1599.5	1601.3	1601.1
175°	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8	1605.6	1607.4	1607.0
177.5°	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4	1605.9	1607.4	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331549-930

CATALOG NUMBER: S122DIW-S675D1440U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1038.7	1038.0	1038.0	1035.0	1038.0	1038.0	1038.7	1042.0	1043.0	1043.7	1042.4
5°	963.5	962.2	960.2	962.2	960.2	962.2	963.5	969.3	972.2	975.2	977.6
7.5°	889.2	884.2	883.5	878.5	883.5	884.2	889.2	891.9	897.7	904.3	910.3
10°	834.9	831.5	831.1	823.2	831.1	831.5	834.9	842.0	847.8	855.7	864.1
12.5°	793.6	785.6	787.2	782.6	787.2	785.6	793.6	793.7	800.5	805.4	818.4
15°	722.1	722.1	720.4	713.4	720.4	722.1	722.1	733.4	735.4	743.3	754.6
17.5°	670.7	669.9	665.9	667.9	665.9	669.9	670.7	679.0	680.4	691.0	700.2
20°	640.1	637.6	632.6	632.6	632.6	637.6	640.1	644.7	650.1	656.3	664.2
22.5°	611.1	611.0	605.7	607.3	605.7	611.0	611.1	615.4	620.4	627.4	634.0
25°	577.2	574.0	571.4	572.7	571.4	574.0	577.2	577.7	583.5	588.1	592.2
27.5°	545.1	543.3	543.2	539.7	543.2	543.3	545.1	546.3	549.5	552.2	556.1
30°	526.5	522.4	523.2	521.1	523.2	522.4	526.5	526.9	528.6	530.3	534.8
32.5°	505.2	503.7	502.9	501.1	502.9	503.7	505.2	505.9	509.2	510.9	514.5
35°	476.1	476.5	474.5	475.3	474.5	476.5	476.1	477.0	477.4	479.1	482.3
37.5°	450.8	452.1	451.1	451.3	451.1	452.1	450.8	451.2	451.6	451.8	452.8
40°	434.1	434.1	434.1	435.4	434.1	434.1	434.1	432.8	433.3	432.8	432.8
42.5°	418.1	417.4	416.8	416.7	416.8	417.4	418.1	415.2	416.6	415.2	414.5
45°	390.8	392.1	392.5	390.4	392.5	392.1	390.8	390.0	388.7	388.3	387.9
47.5°	366.1	366.2	366.1	367.9	366.1	366.2	366.1	365.0	363.1	362.3	360.4
50°	348.8	348.0	348.8	348.0	348.8	348.0	348.8	346.7	345.4	343.3	341.7
52.5°	330.4	330.6	330.1	330.0	330.1	330.6	330.4	327.8	327.1	326.4	323.8
55°	301.7	302.6	302.1	302.1	302.1	302.6	301.7	300.1	299.6	297.2	294.6
57.5°	272.1	272.8	273.4	271.5	273.4	272.8	272.1	271.7	271.5	268.9	266.2
60°	251.4	253.5	253.1	252.3	253.1	253.5	251.4	251.8	250.5	248.9	247.2
62.5°	232.4	233.2	233.1	232.9	233.1	233.2	232.4	230.5	229.9	228.2	226.6
65°	203.1	203.9	202.7	203.9	202.7	203.9	203.1	201.9	198.9	198.1	196.4
67.5°	171.5	171.8	172.8	173.3	172.8	171.8	171.5	172.0	170.2	168.5	168.2
70°	151.9	151.5	152.7	154.0	152.7	151.5	151.9	151.1	149.9	148.5	146.9
72.5°	131.3	132.2	131.8	132.6	131.8	132.2	131.3	131.4	130.2	128.6	126.9
75°	101.1	102.4	102.0	103.2	102.0	102.4	101.1	102.0	101.1	99.5	97.8
77.5°	73.1	73.2	73.1	73.8	73.1	73.2	73.1	73.8	72.8	73.4	71.5
80°	55.8	55.0	54.1	55.8	54.1	55.0	55.8	55.8	54.5	55.8	54.5
82.5°	38.8	39.3	38.5	38.5	38.5	39.3	38.8	39.8	39.2	39.8	38.6
85°	17.9	17.4	16.6	16.6	16.6	17.4	17.9	17.9	19.2	18.3	18.3
87.5°	9.3	9.0	9.1	8.9	9.1	9.0	9.3	9.2	9.0	9.4	9.1
90°	29.8	30.2	30.8	31.3	30.8	30.2	29.8	29.3	28.4	27.1	25.8
92.5°	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	29.6	28.9	28.2
95°	50.6	50.4	50.1	49.9	50.1	50.4	50.6	50.9	50.4	49.1	47.8
97.5°	65.6	66.0	66.3	66.5	66.3	66.0	65.6	65.3	64.7	63.6	62.6
100°	76.1	76.6	77.2	77.7	77.2	76.6	76.1	75.7	74.4	72.3	70.2
102.5°	81.1	81.8	82.5	83.2	82.5	81.8	81.1	80.4	78.7	76.0	73.3
105°	85.0	86.1	87.1	88.1	87.1	86.1	85.0	84.0	82.1	79.2	76.4
107.5°	87.6	88.6	89.7	90.7	89.7	88.6	87.6	86.6	87.5	90.3	93.3
110°	88.5	89.5	90.6	91.6	90.6	89.5	88.5	87.5	99.9	125.6	151.4



TEST NUMBER: P331549-930

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	90.1	90.9	91.7	92.5	91.7	90.9	90.1	89.2	135.8	229.8	323.8
115°	150.7	132.2	113.7	95.1	113.7	132.2	150.7	169.3	238.2	357.5	476.9
117.5°	571.1	510.1	449.1	388.2	449.1	510.1	571.1	632.1	677.0	705.9	734.7
120°	811.7	776.9	742.1	707.4	742.1	776.9	811.7	846.4	862.3	859.2	856.1
122.5°	902.9	896.2	889.4	882.6	889.4	896.2	902.9	909.6	912.1	910.3	908.4
125°	989.1	989.9	990.7	991.4	990.7	989.9	989.1	988.3	987.0	985.2	983.4
127.5°	1059.6	1059.7	1059.9	1060.1	1059.9	1059.7	1059.6	1059.5	1058.0	1055.4	1052.8
130°	1103.5	1103.3	1103.0	1102.7	1103.0	1103.3	1103.5	1103.8	1102.4	1099.7	1096.8
132.5°	1145.3	1145.0	1144.8	1144.4	1144.8	1145.0	1145.3	1145.5	1144.4	1142.0	1139.5
135°	1206.3	1205.8	1205.3	1204.8	1205.3	1205.8	1206.3	1206.8	1205.8	1203.2	1200.6
137.5°	1262.3	1261.5	1260.6	1259.7	1260.6	1261.5	1262.3	1263.2	1262.4	1259.9	1257.4
140°	1298.0	1296.7	1295.3	1294.0	1295.3	1296.7	1298.0	1299.2	1298.7	1296.4	1294.0
142.5°	1331.3	1330.0	1328.8	1327.5	1328.8	1330.0	1331.3	1332.6	1332.2	1330.1	1328.0
145°	1377.9	1376.6	1375.3	1374.1	1375.3	1376.6	1377.9	1379.2	1379.0	1377.1	1375.3
147.5°	1418.4	1417.3	1416.2	1415.1	1416.2	1417.3	1418.4	1419.4	1419.4	1418.0	1416.7
150°	1444.1	1442.8	1441.4	1440.1	1441.4	1442.8	1444.1	1445.3	1445.2	1443.7	1442.1
152.5°	1466.6	1464.9	1463.2	1461.5	1463.2	1464.9	1466.6	1468.3	1468.4	1466.8	1465.3
155°	1497.4	1495.3	1493.2	1491.2	1493.2	1495.3	1497.4	1499.4	1499.7	1498.1	1496.6
157.5°	1524.4	1522.3	1520.3	1518.3	1520.3	1522.3	1524.4	1526.3	1526.5	1524.7	1523.0
160°	1539.5	1537.7	1535.9	1534.1	1535.9	1537.7	1539.5	1541.3	1541.4	1539.9	1538.3
162.5°	1553.7	1551.5	1549.3	1547.1	1549.3	1551.5	1553.7	1555.9	1556.2	1554.4	1552.7
165°	1572.0	1570.2	1568.4	1566.5	1568.4	1570.2	1572.0	1573.8	1573.8	1572.0	1570.2
167.5°	1585.8	1583.5	1581.2	1578.8	1581.2	1583.5	1585.8	1588.1	1588.4	1586.6	1584.8
170°	1593.3	1590.9	1588.6	1586.2	1588.6	1590.9	1593.3	1595.5	1595.8	1594.0	1592.2
172.5°	1598.8	1596.4	1594.2	1591.8	1594.2	1596.4	1598.8	1601.1	1601.3	1599.5	1597.7
175°	1604.4	1601.8	1599.3	1596.7	1599.3	1601.8	1604.4	1607.0	1607.4	1605.6	1603.8
177.5°	1605.2	1603.4	1601.6	1599.7	1601.6	1603.4	1605.2	1607.1	1607.4	1605.9	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



TEST NUMBER: P331549-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1040.6	1044.3	1049.9	1056.0	1059.6	1066.7	1068.6	1072.0	1075.0	1082.0	1089.2
5°	980.6	986.3	1000.1	1007.6	1018.0	1030.0	1038.0	1046.4	1055.5	1071.3	1085.8
7.5°	916.2	925.9	942.9	956.9	971.8	989.0	1001.5	1018.0	1031.7	1053.9	1075.3
10°	873.2	886.9	902.3	918.9	939.8	958.1	975.6	996.4	1013.0	1039.7	1064.6
12.5°	834.5	836.7	858.7	877.0	905.5	928.1	948.3	975.1	991.4	1023.0	1049.3
15°	767.0	779.5	799.5	814.1	847.8	876.5	904.8	932.7	951.5	990.5	1025.1
17.5°	710.2	721.7	742.2	766.1	790.3	818.8	855.4	884.8	910.3	955.0	995.9
20°	674.3	688.4	709.2	733.8	755.0	786.2	817.8	851.5	879.0	929.4	977.2
22.5°	643.6	654.8	671.6	695.8	719.0	747.5	782.2	818.9	847.7	902.0	950.6
25°	600.5	609.8	620.5	640.5	666.8	698.0	725.0	765.4	807.4	858.2	916.9
27.5°	561.7	568.3	577.9	595.4	615.7	644.9	675.0	713.3	755.5	810.7	872.6
30°	538.2	542.3	551.9	566.5	586.4	609.3	639.7	676.3	719.6	775.3	837.0
32.5°	517.5	521.3	527.6	541.4	558.8	578.4	605.8	642.4	683.6	738.4	806.7
35°	486.6	489.4	494.9	506.1	515.7	534.8	557.7	591.0	629.7	682.2	752.9
37.5°	455.7	459.7	463.0	467.7	480.0	492.6	512.5	540.6	578.6	631.5	699.0
40°	435.4	438.6	443.7	445.7	455.8	467.0	483.2	509.0	547.3	595.6	661.4
42.5°	414.7	418.0	421.0	423.5	432.1	442.0	456.6	478.7	512.7	559.6	624.7
45°	386.6	387.0	390.0	394.5	398.7	405.8	416.2	435.4	461.5	505.6	564.8
47.5°	358.2	358.7	359.1	361.2	365.7	372.2	379.0	394.6	418.1	453.3	510.9
50°	339.2	338.3	339.2	340.9	343.8	349.2	357.1	368.4	387.5	420.4	473.2
52.5°	320.9	320.7	320.2	320.9	323.1	326.9	332.5	342.0	359.1	389.4	435.9
55°	293.0	290.9	291.3	289.7	293.4	294.2	298.4	306.3	321.3	342.1	385.8
57.5°	263.3	261.5	259.7	259.2	258.9	261.1	264.5	270.7	282.2	300.4	335.9
60°	244.3	242.2	239.7	238.9	238.9	240.1	241.8	246.4	257.2	273.5	302.6
62.5°	225.0	222.6	221.1	218.9	218.3	219.5	221.2	224.5	232.2	247.4	272.6
65°	195.2	192.2	190.2	189.8	189.0	187.7	188.5	191.8	198.1	210.2	230.2
67.5°	165.3	162.6	162.1	159.6	158.5	158.7	158.5	161.3	165.1	175.5	190.4
70°	145.7	143.6	142.8	140.6	139.8	139.0	138.2	140.6	144.4	153.2	166.1
72.5°	125.7	123.9	122.1	120.3	120.5	119.7	119.5	121.0	124.1	132.2	142.1
75°	96.9	97.4	95.3	93.2	92.8	92.0	92.0	93.2	94.5	100.7	108.6
77.5°	70.4	70.0	68.2	67.6	67.2	66.3	67.2	68.0	68.6	72.8	78.7
80°	53.7	53.7	51.6	51.6	51.2	50.0	51.2	50.4	52.0	56.2	60.3
82.5°	38.4	37.7	37.6	36.9	36.9	36.0	36.5	37.3	38.1	40.8	43.4
85°	18.8	18.8	18.3	17.9	18.3	17.9	18.3	18.8	19.2	20.4	22.5
87.5°	8.9	9.0	8.9	8.8	8.4	8.3	8.2	7.9	8.0	7.8	7.6
90°	24.5	23.2	21.1	19.1	17.0	14.9	12.5	9.7	6.8	4.0	1.1
92.5°	27.6	26.9	25.8	24.9	23.8	22.7	22.4	22.7	22.9	23.2	23.4
95°	46.5	45.2	43.5	41.6	39.8	38.0	41.3	49.9	58.4	66.9	75.3
97.5°	61.6	60.5	56.3	52.2	48.0	43.9	53.7	77.7	101.7	125.6	149.6
100°	68.2	66.1	61.7	57.3	52.9	48.6	64.0	99.3	134.6	169.9	205.2
102.5°	70.6	67.9	104.6	141.2	177.9	214.5	236.6	244.0	251.5	259.0	266.4
105°	73.5	70.8	141.0	211.4	281.8	352.1	383.4	375.7	367.9	360.2	352.5
107.5°	96.1	99.1	183.4	267.7	352.1	436.5	475.6	469.3	463.1	456.8	450.6
110°	177.2	202.9	277.4	351.9	426.3	500.8	535.3	529.9	524.5	519.1	513.7



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	417.8	511.8	530.2	548.6	567.0	585.4	592.2	587.4	582.6	577.8	573.1
115°	596.1	715.4	709.0	702.5	696.1	689.7	684.3	679.9	675.5	671.2	666.8
117.5°	763.6	792.5	788.0	783.6	779.1	774.7	770.1	765.2	760.3	755.4	750.5
120°	853.0	849.9	845.3	840.7	836.0	831.4	827.1	823.3	819.4	815.5	811.7
122.5°	906.5	904.7	899.6	894.5	889.5	884.5	880.0	875.9	871.8	867.7	863.6
125°	981.6	979.8	974.9	970.0	965.2	960.3	956.1	952.8	949.4	946.1	942.7
127.5°	1050.2	1047.6	1043.9	1040.2	1036.6	1032.9	1029.2	1025.5	1021.8	1018.1	1014.4
130°	1094.0	1091.1	1088.3	1085.5	1082.6	1079.8	1076.4	1072.2	1068.0	1064.0	1059.8
132.5°	1137.2	1134.7	1131.9	1129.0	1126.3	1123.4	1120.2	1116.7	1113.2	1109.7	1106.2
135°	1198.1	1195.5	1193.2	1190.8	1188.5	1186.2	1183.0	1178.8	1174.8	1170.6	1166.5
137.5°	1254.8	1252.3	1249.7	1247.1	1244.4	1241.8	1239.0	1236.2	1233.3	1230.4	1227.5
140°	1291.8	1289.4	1286.6	1283.8	1280.9	1278.1	1275.6	1273.6	1271.5	1269.4	1267.4
142.5°	1325.8	1323.7	1320.5	1317.3	1314.0	1310.8	1308.2	1306.4	1304.5	1302.6	1300.8
145°	1373.5	1371.7	1367.3	1363.0	1358.6	1354.2	1352.2	1352.4	1352.7	1352.9	1353.2
147.5°	1415.3	1414.0	1409.7	1405.3	1400.9	1396.6	1395.0	1396.0	1396.9	1397.9	1398.9
150°	1440.6	1439.0	1434.8	1430.8	1426.6	1422.5	1421.3	1423.2	1425.0	1426.8	1428.6
152.5°	1463.7	1462.2	1458.2	1454.3	1450.4	1446.5	1445.6	1447.6	1449.6	1451.6	1453.6
155°	1495.0	1493.5	1490.4	1487.4	1484.3	1481.2	1480.7	1483.0	1485.4	1487.7	1490.0
157.5°	1521.3	1519.5	1517.3	1515.2	1513.0	1510.8	1510.7	1512.7	1514.7	1516.6	1518.6
160°	1536.8	1535.2	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2
162.5°	1550.9	1549.2	1547.8	1546.5	1545.2	1543.8	1543.9	1545.5	1547.0	1548.6	1550.0
165°	1568.4	1566.5	1565.8	1565.0	1564.2	1563.5	1563.8	1565.4	1566.9	1568.5	1570.0
167.5°	1583.0	1581.2	1580.5	1579.7	1579.0	1578.3	1578.7	1580.2	1581.8	1583.3	1584.9
170°	1590.4	1588.6	1588.0	1587.6	1587.1	1586.5	1587.1	1588.6	1590.2	1591.7	1593.3
172.5°	1595.9	1594.2	1593.7	1593.1	1592.6	1592.1	1592.6	1594.2	1595.7	1597.3	1598.8
175°	1602.0	1600.2	1599.7	1599.1	1598.6	1598.1	1598.8	1600.6	1602.4	1604.2	1606.0
177.5°	1603.0	1601.6	1601.3	1601.2	1600.9	1600.8	1601.3	1602.8	1604.3	1605.7	1607.1
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1088.6	1090.3	1095.6	1100.9	1106.9	1108.6	1111.3	1108.9	1108.2	1114.6	1119.2
5°	1091.7	1099.2	1113.8	1127.1	1138.3	1146.2	1154.5	1157.9	1164.1	1172.8	1183.7
7.5°	1088.2	1102.8	1125.7	1145.0	1166.2	1181.5	1193.4	1203.5	1215.8	1232.3	1250.4
10°	1084.2	1103.8	1131.6	1155.4	1181.1	1200.7	1217.0	1232.7	1251.1	1274.0	1297.7
12.5°	1076.8	1100.1	1135.0	1163.0	1196.1	1215.4	1237.3	1271.4	1291.0	1322.9	1356.3
15°	1062.2	1087.9	1136.6	1171.2	1208.6	1245.3	1285.6	1318.1	1350.5	1369.3	1416.3
17.5°	1040.2	1078.2	1132.0	1172.3	1219.9	1277.7	1323.0	1359.8	1397.3	1427.7	1451.2
20°	1022.6	1063.8	1125.4	1173.7	1230.3	1292.2	1344.3	1381.8	1414.2	1439.7	1454.2
22.5°	1000.3	1052.1	1112.1	1168.7	1241.0	1302.3	1357.0	1386.4	1413.6	1426.0	1431.6
25°	965.2	1027.6	1095.4	1164.5	1246.1	1311.0	1361.0	1378.8	1386.7	1374.7	1354.7
27.5°	927.3	996.9	1076.2	1156.7	1242.9	1305.4	1341.2	1338.3	1324.9	1285.9	1254.7
30°	898.9	975.6	1060.9	1148.7	1235.3	1296.0	1316.9	1296.0	1265.7	1222.0	1177.5
32.5°	869.4	948.6	1044.6	1137.3	1221.3	1274.7	1279.2	1243.4	1196.4	1146.7	1091.2
35°	824.5	910.2	1013.8	1112.1	1191.6	1225.3	1205.3	1142.1	1086.3	1018.5	942.6
37.5°	773.8	868.5	972.4	1075.1	1147.0	1155.8	1106.3	1039.7	961.0	881.3	792.1
40°	735.8	836.2	943.1	1046.8	1110.4	1101.2	1038.0	964.7	871.1	773.7	690.9
42.5°	701.9	802.2	911.1	1012.8	1063.8	1038.7	964.7	874.8	774.2	682.5	606.7
45°	643.0	746.2	857.8	956.0	985.1	939.8	842.0	742.1	643.0	566.5	506.5
47.5°	586.0	687.9	798.4	884.8	895.0	834.1	727.2	624.4	539.2	476.9	434.6
50°	544.0	646.4	755.8	832.8	829.5	755.8	646.0	548.1	477.0	426.6	398.3
52.5°	506.4	603.1	708.2	778.2	760.6	680.2	575.4	488.5	430.0	390.6	365.0
55°	447.8	537.3	637.2	693.4	660.9	571.9	483.2	413.3	370.0	340.5	320.5
57.5°	389.7	473.6	559.1	593.8	557.9	475.6	401.7	351.0	318.5	296.6	283.6
60°	353.8	427.1	503.2	533.1	490.2	417.0	358.7	313.4	287.1	269.3	257.6
62.5°	317.8	383.4	455.3	471.6	432.4	370.4	318.8	281.1	259.5	243.6	232.7
65°	268.9	322.5	377.1	387.9	351.7	303.9	263.0	238.5	219.3	207.7	198.9
67.5°	220.5	263.6	302.2	311.0	279.2	246.1	216.6	195.2	182.2	172.5	165.2
70°	191.8	226.0	257.6	264.7	239.3	209.8	187.3	170.2	158.6	150.3	143.2
72.5°	161.6	190.0	216.3	221.1	200.3	177.8	159.3	145.9	135.6	130.3	123.5
75°	123.6	140.2	160.6	161.9	148.1	134.4	120.3	111.5	106.2	99.5	96.1
77.5°	87.2	100.3	111.9	114.2	106.1	96.7	88.8	81.9	77.3	74.3	71.2
80°	66.6	77.0	82.0	84.9	79.1	72.4	67.8	63.3	60.3	58.3	56.2
82.5°	47.6	54.1	58.7	60.9	57.8	53.8	49.2	46.6	44.4	42.6	41.9
85°	24.1	27.1	30.0	30.8	30.0	28.3	25.8	25.8	24.5	24.1	24.1
87.5°	9.1	11.0	11.6	13.1	13.0	13.4	13.8	13.9	13.9	13.9	13.8
90°	4.0	6.8	9.7	12.5	14.9	17.0	19.1	21.1	23.2	24.5	25.8
92.5°	23.2	22.9	22.7	22.4	22.7	23.8	24.9	25.8	26.9	27.6	28.2
95°	66.9	58.4	49.9	41.3	38.0	39.8	41.6	43.5	45.2	46.5	47.8
97.5°	125.6	101.7	77.7	53.7	43.9	48.0	52.2	56.3	60.5	61.6	62.6
100°	169.9	134.6	99.3	64.0	48.6	52.9	57.3	61.7	66.1	68.2	70.2
102.5°	259.0	251.5	244.0	236.6	214.5	177.9	141.2	104.6	67.9	70.6	73.3
105°	360.2	367.9	375.7	383.4	352.1	281.8	211.4	141.0	70.8	73.5	76.4
107.5°	456.8	463.1	469.3	475.6	436.5	352.1	267.7	183.4	99.1	96.1	93.3
110°	519.1	524.5	529.9	535.3	500.8	426.3	351.9	277.4	202.9	177.2	151.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	577.8	582.6	587.4	592.2	585.4	567.0	548.6	530.2	511.8	417.8	323.8
115°	671.2	675.5	679.9	684.3	689.7	696.1	702.5	709.0	715.4	596.1	476.9
117.5°	755.4	760.3	765.2	770.1	774.7	779.1	783.6	788.0	792.5	763.6	734.7
120°	815.5	819.4	823.3	827.1	831.4	836.0	840.7	845.3	849.9	853.0	856.1
122.5°	867.7	871.8	875.9	880.0	884.5	889.5	894.5	899.6	904.7	906.5	908.4
125°	946.1	949.4	952.8	956.1	960.3	965.2	970.0	974.9	979.8	981.6	983.4
127.5°	1018.1	1021.8	1025.5	1029.2	1032.9	1036.6	1040.2	1043.9	1047.6	1050.2	1052.8
130°	1064.0	1068.0	1072.2	1076.4	1079.8	1082.6	1085.5	1088.3	1091.1	1094.0	1096.8
132.5°	1109.7	1113.2	1116.7	1120.2	1123.4	1126.3	1129.0	1131.9	1134.7	1137.2	1139.5
135°	1170.6	1174.8	1178.8	1183.0	1186.2	1188.5	1190.8	1193.2	1195.5	1198.1	1200.6
137.5°	1230.4	1233.3	1236.2	1239.0	1241.8	1244.4	1247.1	1249.7	1252.3	1254.8	1257.4
140°	1269.4	1271.5	1273.6	1275.6	1278.1	1280.9	1283.8	1286.6	1289.4	1291.8	1294.0
142.5°	1302.6	1304.5	1306.4	1308.2	1310.8	1314.0	1317.3	1320.5	1323.7	1325.8	1328.0
145°	1352.9	1352.7	1352.4	1352.2	1354.2	1358.6	1363.0	1367.3	1371.7	1373.5	1375.3
147.5°	1397.9	1396.9	1396.0	1395.0	1396.6	1400.9	1405.3	1409.7	1414.0	1415.3	1416.7
150°	1426.8	1425.0	1423.2	1421.3	1422.5	1426.6	1430.8	1434.8	1439.0	1440.6	1442.1
152.5°	1451.6	1449.6	1447.6	1445.6	1446.5	1450.4	1454.3	1458.2	1462.2	1463.7	1465.3
155°	1487.7	1485.4	1483.0	1480.7	1481.2	1484.3	1487.4	1490.4	1493.5	1495.0	1496.6
157.5°	1516.6	1514.7	1512.7	1510.7	1510.8	1513.0	1515.2	1517.3	1519.5	1521.3	1523.0
160°	1533.7	1532.2	1530.6	1529.1	1529.1	1530.6	1532.2	1533.7	1535.2	1536.8	1538.3
162.5°	1548.6	1547.0	1545.5	1543.9	1543.8	1545.2	1546.5	1547.8	1549.2	1550.9	1552.7
165°	1568.5	1566.9	1565.4	1563.8	1563.5	1564.2	1565.0	1565.8	1566.5	1568.4	1570.2
167.5°	1583.3	1581.8	1580.2	1578.7	1578.3	1579.0	1579.7	1580.5	1581.2	1583.0	1584.8
170°	1591.7	1590.2	1588.6	1587.1	1586.5	1587.1	1587.6	1588.0	1588.6	1590.4	1592.2
172.5°	1597.3	1595.7	1594.2	1592.6	1592.1	1592.6	1593.1	1593.7	1594.2	1595.9	1597.7
175°	1604.2	1602.4	1600.6	1598.8	1598.1	1598.6	1599.1	1599.7	1600.2	1602.0	1603.8
177.5°	1605.7	1604.3	1602.8	1601.3	1600.8	1600.9	1601.2	1601.3	1601.6	1603.0	1604.4
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0	1083.0
2.5°	1123.2	1127.9	1127.9	1128.5	1133.9	1133.2	1132.9
5°	1195.3	1202.4	1203.2	1210.7	1215.7	1214.1	1209.5
7.5°	1263.3	1276.5	1286.5	1292.0	1298.6	1302.7	1300.9
10°	1317.3	1336.4	1348.1	1356.0	1365.5	1372.6	1370.1
12.5°	1366.2	1389.0	1405.0	1418.5	1419.8	1428.9	1422.7
15°	1442.5	1466.6	1469.2	1479.2	1487.1	1486.2	1486.6
17.5°	1467.8	1475.5	1477.1	1477.3	1477.4	1474.5	1468.2
20°	1458.7	1455.9	1448.8	1443.4	1433.8	1432.6	1424.2
22.5°	1416.2	1406.9	1389.2	1377.4	1362.5	1358.6	1356.3
25°	1332.3	1311.8	1283.5	1256.5	1249.0	1234.4	1238.6
27.5°	1217.2	1185.4	1154.7	1132.7	1112.8	1091.0	1097.2
30°	1136.2	1100.4	1057.1	1023.9	1002.7	981.8	978.0
32.5°	1039.7	987.2	938.9	909.6	877.1	864.0	849.5
35°	873.2	822.0	774.1	733.0	709.2	690.9	674.3
37.5°	723.4	664.5	625.9	592.5	575.4	564.8	567.5
40°	630.6	578.9	550.7	525.2	509.4	501.9	503.6
42.5°	555.3	516.7	493.3	476.0	464.8	460.6	459.7
45°	469.9	448.3	429.1	419.1	413.7	409.1	406.2
47.5°	411.6	394.0	383.2	377.2	372.5	367.9	367.8
50°	376.7	365.0	357.5	351.2	347.6	344.2	347.1
52.5°	350.0	339.3	331.9	326.3	324.9	321.9	321.8
55°	310.5	302.1	296.8	291.7	289.3	287.6	285.5
57.5°	274.5	266.6	261.6	258.4	253.7	252.0	251.4
60°	248.9	242.6	237.7	233.5	231.4	228.0	228.0
62.5°	225.3	219.0	214.3	211.2	207.7	206.4	206.8
65°	191.0	186.1	181.5	178.1	177.3	174.8	175.6
67.5°	159.6	156.2	151.4	149.6	148.0	146.7	145.7
70°	138.6	135.3	132.7	130.3	129.0	129.0	129.0
72.5°	120.9	116.9	115.4	112.3	113.0	111.7	110.4
75°	93.7	91.2	89.9	88.6	86.6	86.6	86.6
77.5°	68.9	68.2	66.7	65.3	64.8	64.4	64.6
80°	53.2	52.8	52.0	52.0	51.2	50.8	50.0
82.5°	40.9	39.9	39.4	39.1	38.9	38.8	38.6
85°	23.3	22.5	22.5	22.9	22.1	22.1	22.5
87.5°	14.4	14.7	14.5	14.6	15.1	14.8	14.9
90°	27.1	28.4	29.3	29.8	30.2	30.8	31.3
92.5°	28.9	29.6	30.1	30.4	30.7	31.0	31.3
95°	49.1	50.4	50.9	50.6	50.4	50.1	49.9
97.5°	63.6	64.7	65.3	65.6	66.0	66.3	66.5
100°	72.3	74.4	75.7	76.1	76.6	77.2	77.7
102.5°	76.0	78.7	80.4	81.1	81.8	82.5	83.2
105°	79.2	82.1	84.0	85.0	86.1	87.1	88.1
107.5°	90.3	87.5	86.6	87.6	88.6	89.7	90.7
110°	125.6	99.9	87.5	88.5	89.5	90.6	91.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	229.8	135.8	89.2	90.1	90.9	91.7	92.5
115°	357.5	238.2	169.3	150.7	132.2	113.7	95.1
117.5°	705.9	677.0	632.1	571.1	510.1	449.1	388.2
120°	859.2	862.3	846.4	811.7	776.9	742.1	707.4
122.5°	910.3	912.1	909.6	902.9	896.2	889.4	882.6
125°	985.2	987.0	988.3	989.1	989.9	990.7	991.4
127.5°	1055.4	1058.0	1059.5	1059.6	1059.7	1059.9	1060.1
130°	1099.7	1102.4	1103.8	1103.5	1103.3	1103.0	1102.7
132.5°	1142.0	1144.4	1145.5	1145.3	1145.0	1144.8	1144.4
135°	1203.2	1205.8	1206.8	1206.3	1205.8	1205.3	1204.8
137.5°	1259.9	1262.4	1263.2	1262.3	1261.5	1260.6	1259.7
140°	1296.4	1298.7	1299.2	1298.0	1296.7	1295.3	1294.0
142.5°	1330.1	1332.2	1332.6	1331.3	1330.0	1328.8	1327.5
145°	1377.1	1379.0	1379.2	1377.9	1376.6	1375.3	1374.1
147.5°	1418.0	1419.4	1419.4	1418.4	1417.3	1416.2	1415.1
150°	1443.7	1445.2	1445.3	1444.1	1442.8	1441.4	1440.1
152.5°	1466.8	1468.4	1468.3	1466.6	1464.9	1463.2	1461.5
155°	1498.1	1499.7	1499.4	1497.4	1495.3	1493.2	1491.2
157.5°	1524.7	1526.5	1526.3	1524.4	1522.3	1520.3	1518.3
160°	1539.9	1541.4	1541.3	1539.5	1537.7	1535.9	1534.1
162.5°	1554.4	1556.2	1555.9	1553.7	1551.5	1549.3	1547.1
165°	1572.0	1573.8	1573.8	1572.0	1570.2	1568.4	1566.5
167.5°	1586.6	1588.4	1588.1	1585.8	1583.5	1581.2	1578.8
170°	1594.0	1595.8	1595.5	1593.3	1590.9	1588.6	1586.2
172.5°	1599.5	1601.3	1601.1	1598.8	1596.4	1594.2	1591.8
175°	1605.6	1607.4	1607.0	1604.4	1601.8	1599.3	1596.7
177.5°	1605.9	1607.4	1607.1	1605.2	1603.4	1601.6	1599.7
180°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5

(END OF REPORT)