

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: P331544-830

Luminaire Tested: **S122DIW-S675D1240U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331544-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIW-S675D1240U830-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1240 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6817.4 lumens  
Efficiency: N/A  
Efficacy: 111.0 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: General Diffuse

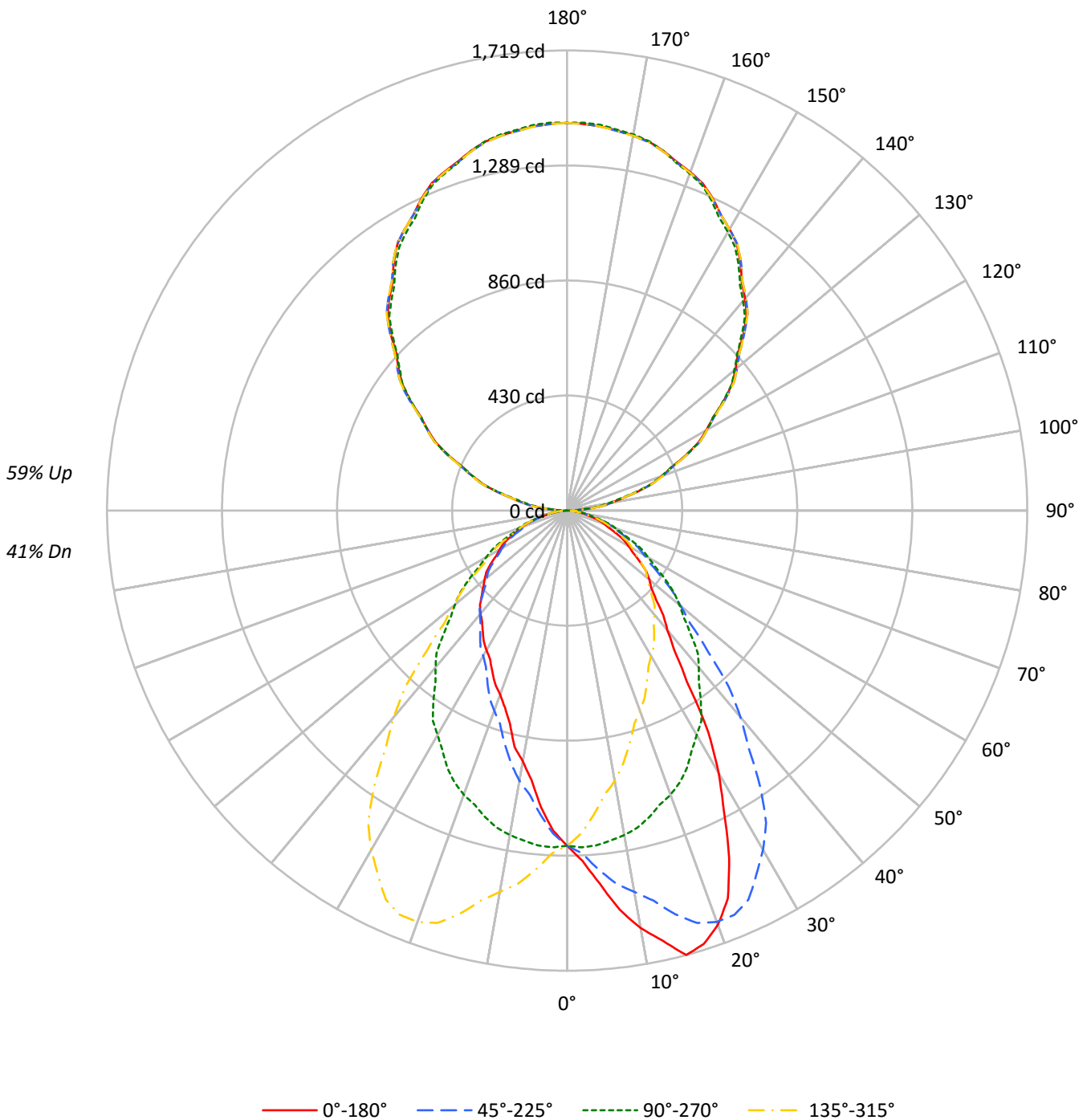
Input Watts (W): 61.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



59% Up

41% Dn



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41						41														
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35						35														
2	88	81	75	70	80	74	69	65	61	57	54	49	46	44	38	36	35	30						30														
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26						26														
4	74	63	56	50	67	58	51	46	48	43	40	39	36	33	31	28	26	22						22														
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20						20														
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18						18														
7	58	46	38	33	53	42	36	31	36	30	27	29	25	22	23	20	18	16						16														
8	54	42	34	29	49	39	32	27	32	27	24	27	23	20	21	19	17	14						14														
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13						13														
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	18	16	14	12						12														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	20215	20215	20215	20215
5°	22663	20345	18029	20345
10°	25968	20179	15603	20179
15°	28727	19809	13785	19809
20°	28290	19411	12565	19411
25°	25509	18884	11794	18884
30°	21080	18040	11231	18040
35°	15364	17156	10831	17156
40°	12271	16115	10608	16115
45°	10723	14908	10305	14908
50°	10078	13742	10105	13742
55°	9292	12555	9833	12555
60°	8512	11296	9416	11296
65°	7755	10166	9005	10166
70°	7039	9064	8403	9064
75°	6245	7829	7442	7829
80°	5374	6481	5997	6481
85°	4817	4817	3557	4817



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	1.7
10°-20°	346.6	5.1
20°-30°	503.1	7.4
30°-40°	530.9	7.8
40°-50°	470.0	6.9
50°-60°	375.1	5.5
60°-70°	254.9	3.7
70°-80°	130.7	1.9
80°-90°	37.3	0.5
90°-100°	91.8	1.3
100°-110°	285.0	4.2
110°-120°	487.2	7.1
120°-130°	640.7	9.4
130°-140°	719.1	10.5
140°-150°	705.1	10.3
150°-160°	591.4	8.7
160°-170°	392.2	5.8
170°-180°	137.1	2.0
0°-30°	968.9	14.2
0°-40°	1499.8	22.0
0°-60°	2344.9	34.4
0°-90°	2767.8	40.6
90°-120°	864.0	12.7
90°-150°	2928.8	43.0
90°-180°	4050.0	59.4
0°-180°	6817.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1252	1252	1252	1252	1252	
5°	1398	1255	1112	1255	1398	140
15°	1719	1185	825	1185	1719	474
25°	1432	1060	662	1060	1432	647
35°	780	870	550	870	780	507
45°	470	653	451	653	470	369
55°	330	446	349	446	330	296
65°	203	266	236	266	203	202
75°	100	126	119	126	100	107
85°	26	26	19	26	26	30
90°	42	1	42	1	42	19
95°	76	64	76	64	76	84
105°	271	263	271	263	271	285
115°	489	489	489	489	489	483
125°	714	711	714	711	714	636
135°	931	920	931	920	931	717
145°	1129	1117	1129	1117	1129	705
155°	1287	1277	1287	1277	1287	592
165°	1391	1390	1391	1390	1391	392
175°	1441	1446	1441	1446	1441	137
180°	1448	1448	1448	1448	1448	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1309.7	1310.0	1310.9	1304.7	1303.9	1303.9	1298.5	1293.9	1288.5	1281.2	1282.0
5°	1398.3	1403.5	1405.4	1399.7	1391.0	1390.1	1381.9	1368.4	1355.8	1345.8	1338.6
7.5°	1503.9	1506.0	1501.3	1493.6	1487.2	1475.7	1460.5	1445.6	1424.7	1405.5	1391.3
10°	1583.9	1586.9	1578.7	1567.6	1558.5	1545.0	1522.9	1500.2	1472.8	1446.3	1425.1
12.5°	1644.7	1651.9	1641.4	1639.9	1624.3	1605.8	1579.4	1568.0	1529.4	1492.5	1469.8
15°	1718.6	1718.2	1719.2	1710.1	1698.5	1695.5	1667.6	1637.4	1583.0	1561.3	1523.8
17.5°	1697.3	1704.6	1708.0	1707.9	1707.6	1705.8	1696.9	1677.7	1650.5	1615.3	1572.0
20°	1646.5	1656.1	1657.6	1668.7	1674.9	1683.1	1686.4	1681.1	1664.3	1634.9	1597.4
22.5°	1568.0	1570.7	1575.2	1592.4	1606.0	1626.5	1637.2	1655.0	1648.5	1634.2	1602.8
25°	1431.9	1427.1	1444.0	1452.6	1483.8	1516.6	1540.2	1566.1	1589.2	1603.2	1594.0
27.5°	1268.5	1261.3	1286.5	1309.5	1334.9	1370.4	1407.1	1450.5	1486.6	1531.7	1547.2
30°	1130.7	1135.0	1159.1	1183.6	1222.1	1272.1	1313.5	1361.2	1412.7	1463.2	1498.3
32.5°	982.1	998.8	1014.0	1051.6	1085.4	1141.3	1201.9	1261.5	1325.7	1383.1	1437.5
35°	779.5	798.7	819.9	847.3	894.9	950.3	1009.5	1089.8	1177.4	1255.8	1320.3
37.5°	656.1	653.0	665.2	684.9	723.6	768.2	836.3	915.8	1018.8	1111.0	1201.9
40°	582.2	580.2	588.9	607.2	636.6	669.3	729.0	798.7	894.5	1007.0	1115.3
42.5°	531.4	532.5	537.3	550.3	570.3	597.3	642.0	701.3	789.0	895.0	1011.3
45°	469.6	473.0	478.2	484.6	496.1	518.2	543.2	585.6	654.9	743.4	857.9
47.5°	425.2	425.3	430.6	436.1	443.0	455.4	475.9	502.4	551.3	623.4	721.8
50°	401.2	397.9	401.8	406.0	413.3	422.0	435.5	460.4	493.1	551.4	633.7
52.5°	372.0	372.1	375.6	377.2	383.7	392.3	404.6	422.0	451.6	497.1	564.8
55°	330.1	332.4	334.4	337.2	343.1	349.3	358.9	370.5	393.6	427.7	477.8
57.5°	290.6	291.3	293.3	298.8	302.5	308.2	317.4	327.8	342.9	368.2	405.8
60°	263.6	263.6	267.5	269.9	274.8	280.5	287.8	297.8	311.3	332.0	362.3
62.5°	239.0	238.7	240.2	244.1	247.8	253.2	260.4	269.0	281.6	300.0	325.0
65°	203.0	202.1	205.0	205.9	209.8	215.1	220.8	230.0	240.1	253.5	275.7
67.5°	168.4	169.6	171.1	173.0	175.0	180.6	184.5	191.0	199.4	210.7	225.6
70°	149.1	149.1	149.1	150.6	153.4	156.4	160.2	165.5	173.7	183.3	196.8
72.5°	127.6	129.1	130.6	129.8	133.5	135.2	139.8	142.8	150.6	156.7	168.7
75°	100.1	100.1	100.1	102.5	104.0	105.4	108.3	111.1	115.0	122.7	128.9
77.5°	74.6	74.5	74.9	75.5	77.1	78.8	79.6	82.3	85.9	89.4	94.7
80°	57.8	58.7	59.2	60.1	60.1	61.1	61.5	64.9	67.4	69.7	73.1
82.5°	44.7	44.9	45.0	45.1	45.5	46.1	47.3	48.4	49.3	51.3	53.9
85°	26.0	25.5	25.5	26.5	26.0	26.0	27.0	27.9	27.9	28.4	29.8
87.5°	18.3	18.3	18.6	18.2	18.1	18.5	18.7	18.4	18.9	19.3	18.6
90°	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7	42.2	42.8	36.8
92.5°	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1	38.9	38.8	37.4
95°	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2	78.2	78.2	77.7
97.5°	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5	131.5	131.5	130.4
100°	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6	168.6	168.6	167.9
102.5°	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2	209.0	208.8	207.7
105°	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9	269.4	268.9	268.3
107.5°	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5	335.4	335.1	335.1
110°	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1	380.1	380.1	380.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7	425.4	426.0	426.2
115°	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2	493.5	493.7	494.3
117.5°	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4	560.1	560.7	562.2
120°	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7	603.7	603.7	605.9
122.5°	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4	650.0	650.6	652.1
125°	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0	717.8	718.6	719.4
127.5°	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7	783.6	784.6	785.6
130°	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6	828.0	828.6	829.2
132.5°	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2	872.4	873.5	873.5
135°	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7	935.9	936.1	935.7
137.5°	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3	997.6	997.8	997.0
140°	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8	1038.8	1038.8	1037.5
142.5°	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4	1076.2	1076.0	1075.1
145°	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5	1133.2	1132.9	1131.3
147.5°	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5	1182.9	1182.3	1181.2
150°	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6	1212.5
152.5°	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9	1243.6
155°	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2	1285.8	1284.5	1283.6
157.5°	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4	1322.5	1320.7	1320.1
160°	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4	1344.7	1343.1	1342.8
162.5°	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4	1364.5	1362.7	1362.4
165°	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1	1390.3	1388.4	1388.4
167.5°	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4	1411.6	1409.6	1409.7
170°	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1	1423.2	1421.4	1421.6
172.5°	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0	1432.1	1430.1	1430.4
175°	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5	1441.6	1439.6	1440.2
177.5°	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3	1445.8
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1284.7	1281.6	1279.7	1272.7	1266.6	1260.5	1258.5	1259.2	1250.8	1242.7	1239.3
5°	1334.7	1325.1	1316.0	1303.0	1287.6	1270.7	1262.1	1255.3	1238.5	1220.2	1209.7
7.5°	1379.6	1365.8	1348.2	1323.7	1301.4	1274.9	1258.0	1243.1	1218.4	1192.7	1176.9
10°	1406.9	1388.1	1365.5	1335.7	1308.2	1276.0	1253.4	1230.8	1201.9	1171.1	1151.9
12.5°	1430.4	1405.0	1382.8	1344.5	1312.1	1271.8	1244.9	1213.1	1182.7	1146.1	1127.3
15°	1486.3	1439.6	1397.2	1354.0	1314.0	1257.7	1227.9	1185.1	1145.1	1099.9	1078.3
17.5°	1529.5	1477.1	1410.3	1355.3	1308.7	1246.4	1202.6	1151.3	1104.1	1052.3	1022.9
20°	1554.2	1493.9	1422.3	1356.9	1301.0	1229.8	1182.2	1129.7	1074.4	1016.2	984.4
22.5°	1568.8	1505.5	1434.6	1351.0	1285.6	1216.4	1156.4	1098.9	1042.8	980.1	946.7
25°	1573.4	1515.6	1440.6	1346.2	1266.4	1188.0	1115.8	1060.0	992.1	933.4	884.9
27.5°	1550.5	1509.1	1436.9	1337.2	1244.2	1152.4	1072.0	1008.8	937.2	873.5	824.6
30°	1522.4	1498.3	1428.0	1327.9	1226.4	1127.8	1039.2	967.6	896.4	831.9	781.8
32.5°	1478.8	1473.7	1411.9	1314.8	1207.6	1096.6	1005.0	932.6	853.7	790.3	742.6
35°	1393.5	1416.5	1377.5	1285.6	1172.1	1052.3	953.2	870.4	788.6	728.0	683.2
37.5°	1278.9	1336.2	1326.1	1242.8	1124.2	1004.0	894.6	808.0	730.1	668.9	625.0
40°	1200.0	1273.1	1283.7	1210.1	1090.3	966.7	850.6	764.6	688.5	632.7	588.4
42.5°	1115.3	1200.8	1229.8	1170.8	1053.3	927.4	811.4	722.2	647.0	592.7	553.5
45°	973.4	1086.5	1138.9	1105.2	991.6	862.7	743.4	652.9	584.6	533.6	503.3
47.5°	840.7	964.2	1034.7	1022.8	923.0	795.3	677.4	590.6	524.1	483.3	456.2
50°	746.8	873.7	958.9	962.8	873.7	747.2	628.9	547.1	486.0	448.0	425.8
52.5°	665.2	786.4	879.3	899.7	818.7	697.2	585.4	504.0	450.2	415.2	395.4
55°	558.6	661.1	764.0	801.6	736.6	621.1	517.7	446.0	395.5	371.5	354.1
57.5°	464.4	549.9	645.0	686.5	646.4	547.5	450.5	388.3	347.3	326.2	312.9
60°	414.7	482.1	566.8	616.3	581.7	493.7	409.0	349.8	316.1	297.4	284.8
62.5°	368.5	428.2	499.8	545.2	526.3	443.3	367.4	315.2	286.1	268.4	259.5
65°	304.1	351.3	406.6	448.5	435.9	372.9	310.9	266.1	243.0	229.0	221.8
67.5°	250.4	284.5	322.8	359.5	349.4	304.7	255.0	220.1	202.8	190.9	186.5
70°	216.5	242.5	276.6	306.0	297.8	261.3	221.8	192.0	177.1	166.9	162.6
72.5°	184.2	205.6	231.6	255.6	250.1	219.7	186.8	164.3	152.8	143.5	139.9
75°	139.0	155.4	171.3	187.2	185.7	162.1	142.9	125.5	116.4	109.2	107.7
77.5°	102.6	111.8	122.6	132.1	129.4	115.9	100.9	91.0	84.2	79.4	78.6
80°	78.4	83.7	91.4	98.1	94.8	89.0	77.0	69.7	64.9	60.1	58.2
82.5°	56.8	62.2	66.8	70.4	67.9	62.5	55.0	50.1	47.2	44.0	43.2
85°	29.8	32.7	34.7	35.6	34.7	31.3	27.9	26.0	23.6	22.1	21.7
87.5°	17.7	16.5	15.4	15.2	13.4	12.7	10.6	8.7	9.0	9.2	9.1
90°	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2	4.5	7.7	11.0
92.5°	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8	24.1	26.6	28.9
95°	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5	66.3	69.0	71.7
97.5°	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1	118.5	120.9	123.3
100°	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2	157.4	159.6	161.7
102.5°	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2	198.0	199.7	201.5
105°	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8	263.5	264.4	265.2
107.5°	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7	330.9	332.2	333.3
110°	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8	374.4	376.0	377.7





TEST NUMBER: P331544-830

CATALOG NUMBER: S122DIW-S675D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7	421.3	422.9	424.6
115°	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9	490.5	492.1	493.7
117.5°	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8	560.0	562.1	564.3
120°	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	605.9	608.1	610.3
122.5°	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7	648.4	651.0	653.6
125°	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2	713.7	716.1	718.6
127.5°	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1	778.2	781.3	784.4
130°	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2	818.7	822.3	825.8
132.5°	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2	863.0	865.9	868.7
135°	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3	923.2	926.2	929.3
137.5°	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5	986.0	988.4	990.9
140°	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7	1024.2	1026.6	1029.1
142.5°	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8	1063.3	1065.7	1068.2
145°	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0	1119.0	1120.9	1122.8
147.5°	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2	1169.4	1171.7	1174.0
150°	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4	1203.0	1204.7	1206.3
152.5°	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7	1233.3	1234.9	1236.5
155°	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1	1278.0	1278.7	1279.6
157.5°	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0	1316.5	1317.1	1317.7
160°	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4	1340.0	1340.6	1341.1
162.5°	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9	1361.1	1361.2	1361.3
165°	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6	1389.3	1389.0	1388.7
167.5°	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5	1412.7	1411.9	1411.1
170°	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3	1425.4	1424.7	1423.8
172.5°	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0	1434.3	1433.4	1432.6
175°	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8	1445.0	1444.2	1443.3
177.5°	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2	1449.5	1448.9	1448.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331544-830

CATALOG NUMBER: S122DIW-S675D1240U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1235.4	1233.1	1225.0	1220.8	1213.8	1207.3	1203.1	1205.0	1206.5	1205.8	1204.6
5°	1200.0	1190.8	1176.9	1164.9	1156.2	1140.3	1133.6	1130.2	1127.4	1124.0	1120.6
7.5°	1157.8	1143.4	1123.4	1106.3	1090.1	1070.4	1059.1	1052.3	1045.5	1037.8	1031.1
10°	1127.8	1107.6	1086.5	1062.3	1043.1	1025.3	1009.5	998.9	989.3	980.1	973.4
12.5°	1096.3	1073.0	1046.8	1013.9	992.7	967.2	964.8	946.1	931.1	925.5	917.6
15°	1046.0	1013.3	980.1	941.1	924.3	901.2	886.7	872.3	859.3	850.2	847.8
17.5°	988.9	946.6	913.6	885.6	858.0	834.3	821.0	809.5	798.8	786.6	784.9
20°	945.5	908.9	872.8	848.3	819.9	795.8	779.5	767.9	758.7	751.6	745.3
22.5°	904.3	864.2	831.2	804.4	776.4	757.0	744.0	732.9	725.3	717.3	711.4
25°	838.2	806.9	770.8	740.5	717.4	704.9	694.3	684.7	679.9	674.6	667.9
27.5°	780.3	745.6	711.8	688.3	668.1	657.0	649.4	642.9	638.4	635.3	631.5
30°	739.5	704.4	678.0	654.9	638.0	627.0	622.2	618.3	613.0	611.1	609.2
32.5°	700.3	668.6	646.0	625.9	609.9	602.7	598.2	594.8	590.7	588.7	584.8
35°	644.7	618.3	596.2	585.0	572.1	565.8	562.5	557.6	553.8	551.9	551.4
37.5°	592.5	569.5	555.0	540.7	535.3	531.4	526.8	523.5	522.4	522.1	521.6
40°	558.6	539.9	526.9	515.3	512.9	507.1	503.3	500.4	500.4	500.9	500.4
42.5°	527.8	511.0	499.5	489.6	486.7	483.2	479.4	479.2	480.0	481.6	480.0
45°	481.2	469.1	460.9	456.1	450.8	447.4	447.0	448.5	448.9	449.4	450.8
47.5°	438.2	430.3	422.8	417.5	415.2	414.6	414.1	416.6	418.9	419.7	422.0
50°	412.8	403.7	397.5	394.1	392.1	391.2	391.2	395.0	396.9	399.4	400.8
52.5°	384.4	377.9	373.5	371.0	370.2	370.8	371.0	374.3	377.3	378.1	378.9
55°	345.0	340.2	339.2	334.9	336.8	336.3	338.7	340.6	343.6	346.4	346.9
57.5°	305.8	301.9	299.3	299.6	300.2	302.4	304.3	307.7	310.9	313.9	314.1
60°	279.6	277.6	276.2	276.2	277.1	280.0	282.5	285.8	287.8	289.6	291.1
62.5°	255.7	253.7	252.3	253.1	255.6	257.3	260.1	261.9	263.8	265.8	266.5
65°	217.9	217.0	218.5	219.4	219.9	222.3	225.6	227.1	229.0	230.0	233.4
67.5°	183.2	183.4	183.2	184.5	187.4	187.9	191.1	194.4	194.8	196.7	198.9
70°	159.8	160.7	161.6	162.6	165.0	166.0	168.4	169.8	171.7	173.2	174.7
72.5°	138.2	138.4	139.3	139.1	141.2	143.3	145.3	146.8	148.6	150.5	151.9
75°	106.3	106.3	107.3	107.7	110.2	112.6	112.1	113.1	115.0	116.9	117.9
77.5°	77.7	76.6	77.7	78.1	78.9	81.0	81.3	82.7	84.8	84.2	85.3
80°	59.2	57.8	59.2	59.7	59.7	62.1	62.1	63.1	64.5	63.1	64.5
82.5°	42.2	41.6	42.6	42.7	43.5	43.5	44.4	44.6	46.0	45.3	46.0
85°	21.2	20.7	21.2	20.7	21.2	21.7	21.7	21.2	21.2	22.1	20.7
87.5°	9.4	9.9	10.7	12.0	12.7	13.6	13.1	12.9	12.8	12.0	12.0
90°	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7	41.2	40.6	40.4
92.5°	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1	39.2	39.3	39.4
95°	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2	78.2	78.2	77.9
97.5°	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5	131.5	131.5	131.5
100°	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6	168.6	168.6	168.5
102.5°	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2	209.4	209.6	209.6
105°	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9	270.5	271.1	271.4
107.5°	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5	335.7	336.0	335.5
110°	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	380.1	379.7



TEST NUMBER: P331544-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7	424.0	423.4	422.8
115°	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2	492.9	492.7	492.1
117.5°	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4	558.7	558.1	557.4
120°	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7	603.7	603.7	603.3
122.5°	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4	648.8	648.1	647.4
125°	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0	716.1	715.4	714.8
127.5°	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7	781.7	780.7	779.8
130°	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6	827.0	826.4	825.7
132.5°	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2	870.0	868.8	867.8
135°	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7	935.4	935.1	934.5
137.5°	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3	997.1	996.9	996.3
140°	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8	1038.8	1038.8	1038.3
142.5°	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4	1076.7	1076.9	1076.4
145°	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5	1133.8	1134.0	1133.6
147.5°	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5	1184.1	1184.7	1184.5
150°	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8
152.5°	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0
155°	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2	1288.5	1289.9	1290.2
157.5°	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4	1326.2	1328.0	1328.3
160°	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4	1348.0	1349.6	1349.9
162.5°	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4	1368.2	1370.1	1370.4
165°	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1	1394.0	1396.0	1396.2
167.5°	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4	1415.3	1417.2	1417.5
170°	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1	1427.0	1429.0	1429.1
172.5°	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0	1435.9	1437.8	1437.8
175°	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5	1445.4	1447.3	1447.5
177.5°	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331544-830

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1200.8	1200.0	1200.0	1196.6	1200.0	1200.0	1200.8	1204.6	1205.8	1206.5	1205.0
5°	1113.9	1112.4	1110.0	1112.4	1110.0	1112.4	1113.9	1120.6	1124.0	1127.4	1130.2
7.5°	1027.9	1022.2	1021.3	1015.6	1021.3	1022.2	1027.9	1031.1	1037.8	1045.5	1052.3
10°	965.2	961.3	960.8	951.7	960.8	961.3	965.2	973.4	980.1	989.3	998.9
12.5°	917.5	908.2	910.0	904.7	910.0	908.2	917.5	917.6	925.5	931.1	946.1
15°	834.8	834.8	832.8	824.7	832.8	834.8	834.8	847.8	850.2	859.3	872.3
17.5°	775.4	774.5	769.9	772.1	769.9	774.5	775.4	784.9	786.6	798.8	809.5
20°	740.0	737.2	731.3	731.3	731.3	737.2	740.0	745.3	751.6	758.7	767.9
22.5°	706.5	706.3	700.2	702.1	700.2	706.3	706.5	711.4	717.3	725.3	732.9
25°	667.3	663.5	660.6	662.0	660.6	663.5	667.3	667.9	674.6	679.9	684.7
27.5°	630.2	628.1	627.9	624.0	627.9	628.1	630.2	631.5	635.3	638.4	642.9
30°	608.7	603.9	604.8	602.4	604.8	603.9	608.7	609.2	611.1	613.0	618.3
32.5°	584.0	582.3	581.4	579.3	581.4	582.3	584.0	584.8	588.7	590.7	594.8
35°	550.4	550.9	548.6	549.5	548.6	550.9	550.4	551.4	551.9	553.8	557.6
37.5°	521.1	522.6	521.5	521.8	521.5	522.6	521.1	521.6	522.1	522.4	523.5
40°	501.8	501.8	501.8	503.3	501.8	501.8	501.8	500.4	500.9	500.4	500.4
42.5°	483.3	482.6	481.8	481.7	481.8	482.6	483.3	480.0	481.6	480.0	479.2
45°	451.8	453.3	453.7	451.3	453.7	453.3	451.8	450.8	449.4	448.9	448.5
47.5°	423.2	423.4	423.2	425.4	423.2	423.4	423.2	422.0	419.7	418.9	416.6
50°	403.2	402.3	403.2	402.3	403.2	402.3	403.2	400.8	399.4	396.9	395.0
52.5°	382.0	382.2	381.6	381.4	381.6	382.2	382.0	378.9	378.1	377.3	374.3
55°	348.8	349.8	349.3	349.3	349.3	349.8	348.8	346.9	346.4	343.6	340.6
57.5°	314.5	315.4	316.0	313.9	316.0	315.4	314.5	314.1	313.9	310.9	307.7
60°	290.6	293.0	292.6	291.6	292.6	293.0	290.6	291.1	289.6	287.8	285.8
62.5°	268.7	269.6	269.5	269.3	269.5	269.6	268.7	266.5	265.8	263.8	261.9
65°	234.8	235.7	234.3	235.7	234.3	235.7	234.8	233.4	230.0	229.0	227.1
67.5°	198.3	198.6	199.7	200.4	199.7	198.6	198.3	198.9	196.7	194.8	194.4
70°	175.6	175.1	176.5	178.0	176.5	175.1	175.6	174.7	173.2	171.7	169.8
72.5°	151.7	152.8	152.3	153.4	152.3	152.8	151.7	151.9	150.5	148.6	146.8
75°	116.9	118.4	117.9	119.3	117.9	118.4	116.9	117.9	116.9	115.0	113.1
77.5°	84.5	84.6	84.5	85.3	84.5	84.6	84.5	85.3	84.2	84.8	82.7
80°	64.5	63.5	62.6	64.5	62.6	63.5	64.5	64.5	63.1	64.5	63.1
82.5°	44.9	45.4	44.5	44.5	44.5	45.4	44.9	46.0	45.3	46.0	44.6
85°	20.7	20.2	19.2	19.2	19.2	20.2	20.7	20.7	22.1	21.2	21.2
87.5°	12.0	11.7	11.7	11.4	11.7	11.7	12.0	12.0	12.0	12.8	12.9
90°	40.7	41.0	41.3	41.6	41.3	41.0	40.7	40.4	40.6	41.2	41.7
92.5°	39.4	39.5	39.6	39.6	39.6	39.5	39.4	39.4	39.3	39.2	39.1
95°	77.4	76.8	76.3	75.8	76.3	76.8	77.4	77.9	78.2	78.2	78.2
97.5°	131.4	131.4	131.3	131.3	131.3	131.4	131.4	131.5	131.5	131.5	131.5
100°	168.2	168.0	167.7	167.4	167.7	168.0	168.2	168.5	168.6	168.6	168.6
102.5°	209.3	209.1	208.8	208.5	208.8	209.1	209.3	209.6	209.6	209.4	209.2
105°	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.1	270.5	269.9
107.5°	334.2	333.0	331.7	330.5	331.7	333.0	334.2	335.5	336.0	335.7	335.5
110°	378.9	378.1	377.2	376.5	377.2	378.1	378.9	379.7	380.1	380.1	380.1



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.2	421.6	421.0	420.4	421.0	421.6	422.2	422.8	423.4	424.0	424.7
115°	491.3	490.5	489.7	488.9	489.7	490.5	491.3	492.1	492.7	492.9	493.2
117.5°	556.6	555.7	555.0	554.1	555.0	555.7	556.6	557.4	558.1	558.7	559.4
120°	602.5	601.7	600.9	600.1	600.9	601.7	602.5	603.3	603.7	603.7	603.7
122.5°	646.9	646.2	645.6	645.1	645.6	646.2	646.9	647.4	648.1	648.8	649.4
125°	714.5	714.3	714.0	713.7	714.0	714.3	714.5	714.8	715.4	716.1	717.0
127.5°	778.9	778.1	777.2	776.3	777.2	778.1	778.9	779.8	780.7	781.7	782.7
130°	824.5	823.5	822.4	821.2	822.4	823.5	824.5	825.7	826.4	827.0	827.6
132.5°	867.0	866.0	865.2	864.3	865.2	866.0	867.0	867.8	868.8	870.0	871.2
135°	933.7	932.9	932.1	931.2	932.1	932.9	933.7	934.5	935.1	935.4	935.7
137.5°	995.1	994.1	993.0	991.9	993.0	994.1	995.1	996.3	996.9	997.1	997.3
140°	1037.2	1036.1	1035.0	1034.0	1035.0	1036.1	1037.2	1038.3	1038.8	1038.8	1038.8
142.5°	1075.3	1074.2	1073.2	1072.0	1073.2	1074.2	1075.3	1076.4	1076.9	1076.7	1076.4
145°	1132.6	1131.4	1130.4	1129.3	1130.4	1131.4	1132.6	1133.6	1134.0	1133.8	1133.5
147.5°	1183.5	1182.4	1181.4	1180.3	1181.4	1182.4	1183.5	1184.5	1184.7	1184.1	1183.5
150°	1216.1	1215.2	1214.4	1213.6	1214.4	1215.2	1216.1	1216.8	1216.8	1216.1	1215.2
152.5°	1247.9	1247.0	1245.9	1244.9	1245.9	1247.0	1247.9	1249.0	1249.0	1247.9	1247.0
155°	1289.4	1288.5	1287.7	1286.9	1287.7	1288.5	1289.4	1290.2	1289.9	1288.5	1287.2
157.5°	1327.0	1325.7	1324.4	1323.0	1324.4	1325.7	1327.0	1328.3	1328.0	1326.2	1324.4
160°	1348.9	1347.7	1346.7	1345.6	1346.7	1347.7	1348.9	1349.9	1349.6	1348.0	1346.4
162.5°	1369.0	1367.7	1366.4	1365.2	1366.4	1367.7	1369.0	1370.4	1370.1	1368.2	1366.4
165°	1394.9	1393.5	1392.1	1390.8	1392.1	1393.5	1394.9	1396.2	1396.0	1394.0	1392.1
167.5°	1416.1	1414.7	1413.2	1411.8	1413.2	1414.7	1416.1	1417.5	1417.2	1415.3	1413.4
170°	1427.5	1425.9	1424.2	1422.6	1424.2	1425.9	1427.5	1429.1	1429.0	1427.0	1425.1
172.5°	1436.2	1434.6	1433.0	1431.3	1433.0	1434.6	1436.2	1437.8	1437.8	1435.9	1434.0
175°	1445.8	1444.2	1442.6	1440.9	1442.6	1444.2	1445.8	1447.5	1447.3	1445.4	1443.5
177.5°	1449.3	1447.9	1446.6	1445.3	1446.6	1447.9	1449.3	1450.5	1450.5	1449.3	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331544-830

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1203.1	1207.3	1213.8	1220.8	1225.0	1233.1	1235.4	1239.3	1242.7	1250.8	1259.2
5°	1133.6	1140.3	1156.2	1164.9	1176.9	1190.8	1200.0	1209.7	1220.2	1238.5	1255.3
7.5°	1059.1	1070.4	1090.1	1106.3	1123.4	1143.4	1157.8	1176.9	1192.7	1218.4	1243.1
10°	1009.5	1025.3	1043.1	1062.3	1086.5	1107.6	1127.8	1151.9	1171.1	1201.9	1230.8
12.5°	964.8	967.2	992.7	1013.9	1046.8	1073.0	1096.3	1127.3	1146.1	1182.7	1213.1
15°	886.7	901.2	924.3	941.1	980.1	1013.3	1046.0	1078.3	1099.9	1145.1	1185.1
17.5°	821.0	834.3	858.0	885.6	913.6	946.6	988.9	1022.9	1052.3	1104.1	1151.3
20°	779.5	795.8	819.9	848.3	872.8	908.9	945.5	984.4	1016.2	1074.4	1129.7
22.5°	744.0	757.0	776.4	804.4	831.2	864.2	904.3	946.7	980.1	1042.8	1098.9
25°	694.3	704.9	717.4	740.5	770.8	806.9	838.2	884.9	933.4	992.1	1060.0
27.5°	649.4	657.0	668.1	688.3	711.8	745.6	780.3	824.6	873.5	937.2	1008.8
30°	622.2	627.0	638.0	654.9	678.0	704.4	739.5	781.8	831.9	896.4	967.6
32.5°	598.2	602.7	609.9	625.9	646.0	668.6	700.3	742.6	790.3	853.7	932.6
35°	562.5	565.8	572.1	585.0	596.2	618.3	644.7	683.2	728.0	788.6	870.4
37.5°	526.8	531.4	535.3	540.7	555.0	569.5	592.5	625.0	668.9	730.1	808.0
40°	503.3	507.1	512.9	515.3	526.9	539.9	558.6	588.4	632.7	688.5	764.6
42.5°	479.4	483.2	486.7	489.6	499.5	511.0	527.8	553.5	592.7	647.0	722.2
45°	447.0	447.4	450.8	456.1	460.9	469.1	481.2	503.3	533.6	584.6	652.9
47.5°	414.1	414.6	415.2	417.5	422.8	430.3	438.2	456.2	483.3	524.1	590.6
50°	392.1	391.2	392.1	394.1	397.5	403.7	412.8	425.8	448.0	486.0	547.1
52.5°	371.0	370.8	370.2	371.0	373.5	377.9	384.4	395.4	415.2	450.2	504.0
55°	338.7	336.3	336.8	334.9	339.2	340.2	345.0	354.1	371.5	395.5	446.0
57.5°	304.3	302.4	300.2	299.6	299.3	301.9	305.8	312.9	326.2	347.3	388.3
60°	282.5	280.0	277.1	276.2	276.2	277.6	279.6	284.8	297.4	316.1	349.8
62.5°	260.1	257.3	255.6	253.1	252.3	253.7	255.7	259.5	268.4	286.1	315.2
65°	225.6	222.3	219.9	219.4	218.5	217.0	217.9	221.8	229.0	243.0	266.1
67.5°	191.1	187.9	187.4	184.5	183.2	183.4	183.2	186.5	190.9	202.8	220.1
70°	168.4	166.0	165.0	162.6	161.6	160.7	159.8	162.6	166.9	177.1	192.0
72.5°	145.3	143.3	141.2	139.1	139.3	138.4	138.2	139.9	143.5	152.8	164.3
75°	112.1	112.6	110.2	107.7	107.3	106.3	106.3	107.7	109.2	116.4	125.5
77.5°	81.3	81.0	78.9	78.1	77.7	76.6	77.7	78.6	79.4	84.2	91.0
80°	62.1	62.1	59.7	59.7	59.2	57.8	59.2	58.2	60.1	64.9	69.7
82.5°	44.4	43.5	43.5	42.7	42.6	41.6	42.2	43.2	44.0	47.2	50.1
85°	21.7	21.7	21.2	20.7	21.2	20.7	21.2	21.7	22.1	23.6	26.0
87.5°	13.1	13.6	12.7	12.0	10.7	9.9	9.4	9.1	9.2	9.0	8.7
90°	42.2	42.8	36.8	30.8	24.9	18.9	14.2	11.0	7.7	4.5	1.2
92.5°	38.9	38.8	37.4	36.0	34.6	33.2	31.3	28.9	26.6	24.1	21.8
95°	78.2	78.2	77.7	77.1	76.6	76.1	74.5	71.7	69.0	66.3	63.5
97.5°	131.5	131.5	130.4	129.4	128.4	127.3	125.6	123.3	120.9	118.5	116.1
100°	168.6	168.6	167.9	167.0	166.2	165.4	163.9	161.7	159.6	157.4	155.2
102.5°	209.0	208.8	207.7	206.7	205.7	204.6	203.2	201.5	199.7	198.0	196.2
105°	269.4	268.9	268.3	267.8	267.2	266.7	266.0	265.2	264.4	263.5	262.8
107.5°	335.4	335.1	335.1	335.1	335.1	335.1	334.5	333.3	332.2	330.9	329.7
110°	380.1	380.1	380.1	380.1	380.1	380.1	379.3	377.7	376.0	374.4	372.8



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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	425.4	426.0	426.2	426.5	426.7	426.9	426.2	424.6	422.9	421.3	419.7
115°	493.5	493.7	494.3	494.8	495.4	495.9	495.4	493.7	492.1	490.5	488.9
117.5°	560.1	560.7	562.2	563.7	565.2	566.8	566.5	564.3	562.1	560.0	557.8
120°	603.7	603.7	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7
122.5°	650.0	650.6	652.1	653.7	655.3	656.8	656.2	653.6	651.0	648.4	645.7
125°	717.8	718.6	719.4	720.3	721.0	721.9	721.0	718.6	716.1	713.7	711.2
127.5°	783.6	784.6	785.6	786.6	787.6	788.5	787.5	784.4	781.3	778.2	775.1
130°	828.0	828.6	829.2	829.7	830.3	830.8	829.2	825.8	822.3	818.7	815.2
132.5°	872.4	873.5	873.5	873.4	873.3	873.2	871.7	868.7	865.9	863.0	860.2
135°	935.9	936.1	935.7	935.1	934.5	934.0	932.3	929.3	926.2	923.2	920.3
137.5°	997.6	997.8	997.0	996.4	995.6	994.9	993.3	990.9	988.4	986.0	983.5
140°	1038.8	1038.8	1037.5	1036.1	1034.7	1033.4	1031.5	1029.1	1026.6	1024.2	1021.7
142.5°	1076.2	1076.0	1075.1	1074.1	1073.2	1072.2	1070.6	1068.2	1065.7	1063.3	1060.8
145°	1133.2	1132.9	1131.3	1129.6	1128.0	1126.4	1124.6	1122.8	1120.9	1119.0	1117.0
147.5°	1182.9	1182.3	1181.2	1180.2	1179.0	1178.0	1176.3	1174.0	1171.7	1169.4	1167.2
150°	1214.4	1213.6	1212.5	1211.4	1210.3	1209.3	1207.9	1206.3	1204.7	1203.0	1201.4
152.5°	1245.9	1244.9	1243.6	1242.3	1241.0	1239.6	1238.2	1236.5	1234.9	1233.3	1231.7
155°	1285.8	1284.5	1283.6	1282.8	1282.0	1281.2	1280.4	1279.6	1278.7	1278.0	1277.1
157.5°	1322.5	1320.7	1320.1	1319.7	1319.2	1318.7	1318.1	1317.7	1317.1	1316.5	1316.0
160°	1344.7	1343.1	1342.8	1342.6	1342.3	1342.1	1341.6	1341.1	1340.6	1340.0	1339.4
162.5°	1364.5	1362.7	1362.4	1362.2	1361.9	1361.6	1361.4	1361.3	1361.2	1361.1	1360.9
165°	1390.3	1388.4	1388.4	1388.4	1388.4	1388.4	1388.5	1388.7	1389.0	1389.3	1389.6
167.5°	1411.6	1409.6	1409.7	1409.8	1409.8	1409.9	1410.2	1411.1	1411.9	1412.7	1413.5
170°	1423.2	1421.4	1421.6	1421.9	1422.2	1422.5	1423.0	1423.8	1424.7	1425.4	1426.3
172.5°	1432.1	1430.1	1430.4	1430.7	1431.0	1431.3	1431.8	1432.6	1433.4	1434.3	1435.0
175°	1441.6	1439.6	1440.2	1440.8	1441.3	1441.9	1442.6	1443.3	1444.2	1445.0	1445.8
177.5°	1446.6	1445.3	1445.8	1446.1	1446.6	1447.1	1447.6	1448.2	1448.9	1449.5	1450.2
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



TEST NUMBER: P331544-830

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1258.5	1260.5	1266.6	1272.7	1279.7	1281.6	1284.7	1282.0	1281.2	1288.5	1293.9
5°	1262.1	1270.7	1287.6	1303.0	1316.0	1325.1	1334.7	1338.6	1345.8	1355.8	1368.4
7.5°	1258.0	1274.9	1301.4	1323.7	1348.2	1365.8	1379.6	1391.3	1405.5	1424.7	1445.6
10°	1253.4	1276.0	1308.2	1335.7	1365.5	1388.1	1406.9	1425.1	1446.3	1472.8	1500.2
12.5°	1244.9	1271.8	1312.1	1344.5	1382.8	1405.0	1430.4	1469.8	1492.5	1529.4	1568.0
15°	1227.9	1257.7	1314.0	1354.0	1397.2	1439.6	1486.3	1523.8	1561.3	1583.0	1637.4
17.5°	1202.6	1246.4	1308.7	1355.3	1410.3	1477.1	1529.5	1572.0	1615.3	1650.5	1677.7
20°	1182.2	1229.8	1301.0	1356.9	1422.3	1493.9	1554.2	1597.4	1634.9	1664.3	1681.1
22.5°	1156.4	1216.4	1285.6	1351.0	1434.6	1505.5	1568.8	1602.8	1634.2	1648.5	1655.0
25°	1115.8	1188.0	1266.4	1346.2	1440.6	1515.6	1573.4	1594.0	1603.2	1589.2	1566.1
27.5°	1072.0	1152.4	1244.2	1337.2	1436.9	1509.1	1550.5	1547.2	1531.7	1486.6	1450.5
30°	1039.2	1127.8	1226.4	1327.9	1428.0	1498.3	1522.4	1498.3	1463.2	1412.7	1361.2
32.5°	1005.0	1096.6	1207.6	1314.8	1411.9	1473.7	1478.8	1437.5	1383.1	1325.7	1261.5
35°	953.2	1052.3	1172.1	1285.6	1377.5	1416.5	1393.5	1320.3	1255.8	1177.4	1089.8
37.5°	894.6	1004.0	1124.2	1242.8	1326.1	1336.2	1278.9	1201.9	1111.0	1018.8	915.8
40°	850.6	966.7	1090.3	1210.1	1283.7	1273.1	1200.0	1115.3	1007.0	894.5	798.7
42.5°	811.4	927.4	1053.3	1170.8	1229.8	1200.8	1115.3	1011.3	895.0	789.0	701.3
45°	743.4	862.7	991.6	1105.2	1138.9	1086.5	973.4	857.9	743.4	654.9	585.6
47.5°	677.4	795.3	923.0	1022.8	1034.7	964.2	840.7	721.8	623.4	551.3	502.4
50°	628.9	747.2	873.7	962.8	958.9	873.7	746.8	633.7	551.4	493.1	460.4
52.5°	585.4	697.2	818.7	899.7	879.3	786.4	665.2	564.8	497.1	451.6	422.0
55°	517.7	621.1	736.6	801.6	764.0	661.1	558.6	477.8	427.7	393.6	370.5
57.5°	450.5	547.5	646.4	686.5	645.0	549.9	464.4	405.8	368.2	342.9	327.8
60°	409.0	493.7	581.7	616.3	566.8	482.1	414.7	362.3	332.0	311.3	297.8
62.5°	367.4	443.3	526.3	545.2	499.8	428.2	368.5	325.0	300.0	281.6	269.0
65°	310.9	372.9	435.9	448.5	406.6	351.3	304.1	275.7	253.5	240.1	230.0
67.5°	255.0	304.7	349.4	359.5	322.8	284.5	250.4	225.6	210.7	199.4	191.0
70°	221.8	261.3	297.8	306.0	276.6	242.5	216.5	196.8	183.3	173.7	165.5
72.5°	186.8	219.7	250.1	255.6	231.6	205.6	184.2	168.7	156.7	150.6	142.8
75°	142.9	162.1	185.7	187.2	171.3	155.4	139.0	128.9	122.7	115.0	111.1
77.5°	100.9	115.9	129.4	132.1	122.6	111.8	102.6	94.7	89.4	85.9	82.3
80°	77.0	89.0	94.8	98.1	91.4	83.7	78.4	73.1	69.7	67.4	64.9
82.5°	55.0	62.5	67.9	70.4	66.8	62.2	56.8	53.9	51.3	49.3	48.4
85°	27.9	31.3	34.7	35.6	34.7	32.7	29.8	29.8	28.4	27.9	27.9
87.5°	10.6	12.7	13.4	15.2	15.4	16.5	17.7	18.6	19.3	18.9	18.4
90°	4.5	7.7	11.0	14.2	18.9	24.9	30.8	36.8	42.8	42.2	41.7
92.5°	24.1	26.6	28.9	31.3	33.2	34.6	36.0	37.4	38.8	38.9	39.1
95°	66.3	69.0	71.7	74.5	76.1	76.6	77.1	77.7	78.2	78.2	78.2
97.5°	118.5	120.9	123.3	125.6	127.3	128.4	129.4	130.4	131.5	131.5	131.5
100°	157.4	159.6	161.7	163.9	165.4	166.2	167.0	167.9	168.6	168.6	168.6
102.5°	198.0	199.7	201.5	203.2	204.6	205.7	206.7	207.7	208.8	209.0	209.2
105°	263.5	264.4	265.2	266.0	266.7	267.2	267.8	268.3	268.9	269.4	269.9
107.5°	330.9	332.2	333.3	334.5	335.1	335.1	335.1	335.1	335.1	335.4	335.5
110°	374.4	376.0	377.7	379.3	380.1	380.1	380.1	380.1	380.1	380.1	380.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	421.3	422.9	424.6	426.2	426.9	426.7	426.5	426.2	426.0	425.4	424.7
115°	490.5	492.1	493.7	495.4	495.9	495.4	494.8	494.3	493.7	493.5	493.2
117.5°	560.0	562.1	564.3	566.5	566.8	565.2	563.7	562.2	560.7	560.1	559.4
120°	605.9	608.1	610.3	612.5	612.5	610.3	608.1	605.9	603.7	603.7	603.7
122.5°	648.4	651.0	653.6	656.2	656.8	655.3	653.7	652.1	650.6	650.0	649.4
125°	713.7	716.1	718.6	721.0	721.9	721.0	720.3	719.4	718.6	717.8	717.0
127.5°	778.2	781.3	784.4	787.5	788.5	787.6	786.6	785.6	784.6	783.6	782.7
130°	818.7	822.3	825.8	829.2	830.8	830.3	829.7	829.2	828.6	828.0	827.6
132.5°	863.0	865.9	868.7	871.7	873.2	873.3	873.4	873.5	873.5	872.4	871.2
135°	923.2	926.2	929.3	932.3	934.0	934.5	935.1	935.7	936.1	935.9	935.7
137.5°	986.0	988.4	990.9	993.3	994.9	995.6	996.4	997.0	997.8	997.6	997.3
140°	1024.2	1026.6	1029.1	1031.5	1033.4	1034.7	1036.1	1037.5	1038.8	1038.8	1038.8
142.5°	1063.3	1065.7	1068.2	1070.6	1072.2	1073.2	1074.1	1075.1	1076.0	1076.2	1076.4
145°	1119.0	1120.9	1122.8	1124.6	1126.4	1128.0	1129.6	1131.3	1132.9	1133.2	1133.5
147.5°	1169.4	1171.7	1174.0	1176.3	1178.0	1179.0	1180.2	1181.2	1182.3	1182.9	1183.5
150°	1203.0	1204.7	1206.3	1207.9	1209.3	1210.3	1211.4	1212.5	1213.6	1214.4	1215.2
152.5°	1233.3	1234.9	1236.5	1238.2	1239.6	1241.0	1242.3	1243.6	1244.9	1245.9	1247.0
155°	1278.0	1278.7	1279.6	1280.4	1281.2	1282.0	1282.8	1283.6	1284.5	1285.8	1287.2
157.5°	1316.5	1317.1	1317.7	1318.1	1318.7	1319.2	1319.7	1320.1	1320.7	1322.5	1324.4
160°	1340.0	1340.6	1341.1	1341.6	1342.1	1342.3	1342.6	1342.8	1343.1	1344.7	1346.4
162.5°	1361.1	1361.2	1361.3	1361.4	1361.6	1361.9	1362.2	1362.4	1362.7	1364.5	1366.4
165°	1389.3	1389.0	1388.7	1388.5	1388.4	1388.4	1388.4	1388.4	1388.4	1390.3	1392.1
167.5°	1412.7	1411.9	1411.1	1410.2	1409.9	1409.8	1409.8	1409.7	1409.6	1411.6	1413.4
170°	1425.4	1424.7	1423.8	1423.0	1422.5	1422.2	1421.9	1421.6	1421.4	1423.2	1425.1
172.5°	1434.3	1433.4	1432.6	1431.8	1431.3	1431.0	1430.7	1430.4	1430.1	1432.1	1434.0
175°	1445.0	1444.2	1443.3	1442.6	1441.9	1441.3	1440.8	1440.2	1439.6	1441.6	1443.5
177.5°	1449.5	1448.9	1448.2	1447.6	1447.1	1446.6	1446.1	1445.8	1445.3	1446.6	1447.9
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0	1252.0
2.5°	1298.5	1303.9	1303.9	1304.7	1310.9	1310.0	1309.7
5°	1381.9	1390.1	1391.0	1399.7	1405.4	1403.5	1398.3
7.5°	1460.5	1475.7	1487.2	1493.6	1501.3	1506.0	1503.9
10°	1522.9	1545.0	1558.5	1567.6	1578.7	1586.9	1583.9
12.5°	1579.4	1605.8	1624.3	1639.9	1641.4	1651.9	1644.7
15°	1667.6	1695.5	1698.5	1710.1	1719.2	1718.2	1718.6
17.5°	1696.9	1705.8	1707.6	1707.9	1708.0	1704.6	1697.3
20°	1686.4	1683.1	1674.9	1668.7	1657.6	1656.1	1646.5
22.5°	1637.2	1626.5	1606.0	1592.4	1575.2	1570.7	1568.0
25°	1540.2	1516.6	1483.8	1452.6	1444.0	1427.1	1431.9
27.5°	1407.1	1370.4	1334.9	1309.5	1286.5	1261.3	1268.5
30°	1313.5	1272.1	1222.1	1183.6	1159.1	1135.0	1130.7
32.5°	1201.9	1141.3	1085.4	1051.6	1014.0	998.8	982.1
35°	1009.5	950.3	894.9	847.3	819.9	798.7	779.5
37.5°	836.3	768.2	723.6	684.9	665.2	653.0	656.1
40°	729.0	669.3	636.6	607.2	588.9	580.2	582.2
42.5°	642.0	597.3	570.3	550.3	537.3	532.5	531.4
45°	543.2	518.2	496.1	484.6	478.2	473.0	469.6
47.5°	475.9	455.4	443.0	436.1	430.6	425.3	425.2
50°	435.5	422.0	413.3	406.0	401.8	397.9	401.2
52.5°	404.6	392.3	383.7	377.2	375.6	372.1	372.0
55°	358.9	349.3	343.1	337.2	334.4	332.4	330.1
57.5°	317.4	308.2	302.5	298.8	293.3	291.3	290.6
60°	287.8	280.5	274.8	269.9	267.5	263.6	263.6
62.5°	260.4	253.2	247.8	244.1	240.2	238.7	239.0
65°	220.8	215.1	209.8	205.9	205.0	202.1	203.0
67.5°	184.5	180.6	175.0	173.0	171.1	169.6	168.4
70°	160.2	156.4	153.4	150.6	149.1	149.1	149.1
72.5°	139.8	135.2	133.5	129.8	130.6	129.1	127.6
75°	108.3	105.4	104.0	102.5	100.1	100.1	100.1
77.5°	79.6	78.8	77.1	75.5	74.9	74.5	74.6
80°	61.5	61.1	60.1	60.1	59.2	58.7	57.8
82.5°	47.3	46.1	45.5	45.1	45.0	44.9	44.7
85°	27.0	26.0	26.0	26.5	25.5	25.5	26.0
87.5°	18.7	18.5	18.1	18.2	18.6	18.3	18.3
90°	41.2	40.6	40.4	40.7	41.0	41.3	41.6
92.5°	39.2	39.3	39.4	39.4	39.5	39.6	39.6
95°	78.2	78.2	77.9	77.4	76.8	76.3	75.8
97.5°	131.5	131.5	131.5	131.4	131.4	131.3	131.3
100°	168.6	168.6	168.5	168.2	168.0	167.7	167.4
102.5°	209.4	209.6	209.6	209.3	209.1	208.8	208.5
105°	270.5	271.1	271.4	271.4	271.4	271.4	271.4
107.5°	335.7	336.0	335.5	334.2	333.0	331.7	330.5
110°	380.1	380.1	379.7	378.9	378.1	377.2	376.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	424.0	423.4	422.8	422.2	421.6	421.0	420.4
115°	492.9	492.7	492.1	491.3	490.5	489.7	488.9
117.5°	558.7	558.1	557.4	556.6	555.7	555.0	554.1
120°	603.7	603.7	603.3	602.5	601.7	600.9	600.1
122.5°	648.8	648.1	647.4	646.9	646.2	645.6	645.1
125°	716.1	715.4	714.8	714.5	714.3	714.0	713.7
127.5°	781.7	780.7	779.8	778.9	778.1	777.2	776.3
130°	827.0	826.4	825.7	824.5	823.5	822.4	821.2
132.5°	870.0	868.8	867.8	867.0	866.0	865.2	864.3
135°	935.4	935.1	934.5	933.7	932.9	932.1	931.2
137.5°	997.1	996.9	996.3	995.1	994.1	993.0	991.9
140°	1038.8	1038.8	1038.3	1037.2	1036.1	1035.0	1034.0
142.5°	1076.7	1076.9	1076.4	1075.3	1074.2	1073.2	1072.0
145°	1133.8	1134.0	1133.6	1132.6	1131.4	1130.4	1129.3
147.5°	1184.1	1184.7	1184.5	1183.5	1182.4	1181.4	1180.3
150°	1216.1	1216.8	1216.8	1216.1	1215.2	1214.4	1213.6
152.5°	1247.9	1249.0	1249.0	1247.9	1247.0	1245.9	1244.9
155°	1288.5	1289.9	1290.2	1289.4	1288.5	1287.7	1286.9
157.5°	1326.2	1328.0	1328.3	1327.0	1325.7	1324.4	1323.0
160°	1348.0	1349.6	1349.9	1348.9	1347.7	1346.7	1345.6
162.5°	1368.2	1370.1	1370.4	1369.0	1367.7	1366.4	1365.2
165°	1394.0	1396.0	1396.2	1394.9	1393.5	1392.1	1390.8
167.5°	1415.3	1417.2	1417.5	1416.1	1414.7	1413.2	1411.8
170°	1427.0	1429.0	1429.1	1427.5	1425.9	1424.2	1422.6
172.5°	1435.9	1437.8	1437.8	1436.2	1434.6	1433.0	1431.3
175°	1445.4	1447.3	1447.5	1445.8	1444.2	1442.6	1440.9
177.5°	1449.3	1450.5	1450.5	1449.3	1447.9	1446.6	1445.3
180°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2

(END OF REPORT)