

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: P331813

Luminaire Tested: **S122RDIW-S675D970U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331813  
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-S675D970U835-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 970 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6412.1 lumens  
Efficiency: N/A  
Efficacy: 121.9 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

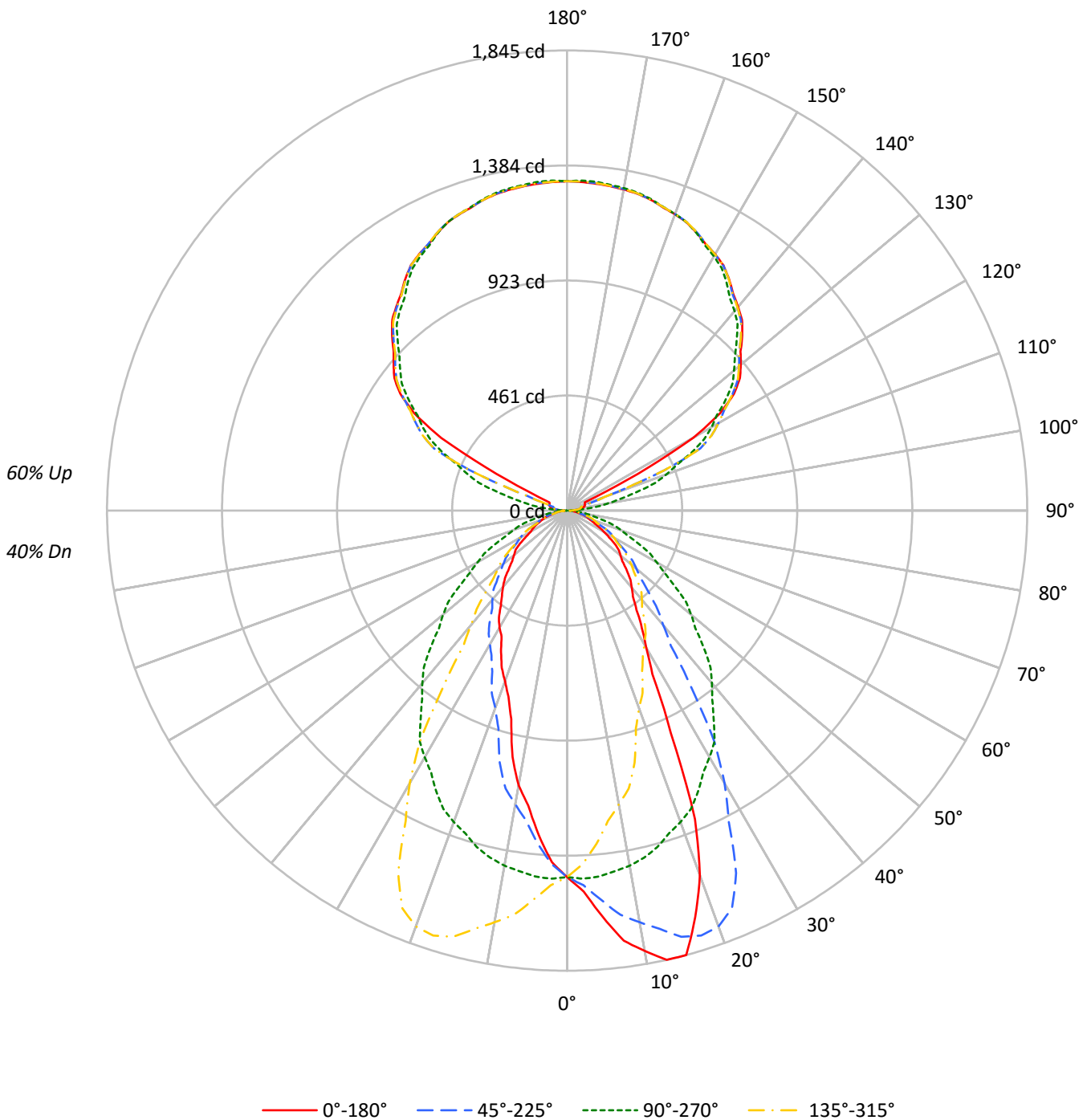
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	40	35
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	22	19
7	58	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

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

	0°	90°	180°	270°
0°	23720	23720	23720	23720
5°	26491	23869	21162	23869
10°	29391	23700	18344	23700
15°	30837	23353	14454	23353
20°	26734	22838	12507	22838
25°	17533	22133	11166	22133
30°	11801	21280	10107	21280
35°	9558	20203	9116	20203
40°	8500	19032	8435	19032
45°	7693	17657	7531	17657
50°	7001	16297	6975	16297
55°	6581	14787	6494	14787
60°	5506	13401	5438	13401
65°	4642	12168	5265	12168
70°	4291	10867	4966	10867
75°	4011	9457	4585	9457
80°	3701	7782	4082	7782
85°	3409	6150	3594	6150



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	2.2
10°-20°	388.0	6.1
20°-30°	500.0	7.8
30°-40°	475.2	7.4
40°-50°	407.1	6.3
50°-60°	310.0	4.8
60°-70°	196.0	3.1
70°-80°	97.9	1.5
80°-90°	28.7	0.4
90°-100°	44.1	0.7
100°-110°	161.5	2.5
110°-120°	431.8	6.7
120°-130°	712.8	11.1
130°-140°	758.0	11.8
140°-150°	704.6	11.0
150°-160°	566.5	8.8
160°-170°	365.0	5.7
170°-180°	125.6	2.0
0°-30°	1027.3	16.0
0°-40°	1502.5	23.4
0°-60°	2219.6	34.6
0°-90°	2542.2	39.6
90°-120°	637.4	9.9
90°-150°	2812.8	43.9
90°-180°	3870.0	60.4
0°-180°	6412.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1469	1469	1469	1469	1469	
5°	1634	1473	1306	1473	1634	161
15°	1845	1397	865	1397	1845	498
25°	984	1242	627	1242	984	467
35°	485	1025	462	1025	485	310
45°	337	773	330	773	337	261
55°	234	525	231	525	234	205
65°	122	318	138	318	122	124
75°	64	152	74	152	64	68
85°	18	33	19	33	18	20
90°	26	1	26	1	26	12
95°	41	62	41	62	41	38
105°	73	290	73	290	73	76
115°	78	549	78	549	78	196
125°	817	777	817	777	817	707
135°	993	961	993	961	993	765
145°	1132	1115	1132	1115	1132	708
155°	1229	1228	1229	1228	1229	567
165°	1291	1294	1291	1294	1291	364
175°	1316	1323	1316	1323	1316	125
180°	1320	1320	1320	1320	1320	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1528.7	1529.9	1531.2	1528.3	1528.3	1525.8	1520.5	1516.5	1505.0	1503.4	1503.4
5°	1634.5	1633.4	1635.5	1628.9	1619.7	1617.6	1607.9	1595.2	1581.9	1567.1	1564.0
7.5°	1739.6	1738.1	1734.0	1732.9	1725.8	1710.4	1694.8	1678.2	1656.1	1634.6	1623.8
10°	1792.7	1809.6	1799.3	1781.5	1785.1	1761.1	1748.3	1726.4	1708.0	1675.8	1668.7
12.5°	1845.0	1851.6	1848.4	1838.2	1833.6	1817.0	1799.8	1780.7	1746.8	1717.9	1692.8
15°	1844.8	1854.5	1857.0	1854.0	1856.5	1855.5	1846.3	1830.5	1800.9	1769.2	1741.7
17.5°	1708.6	1715.3	1732.1	1743.4	1757.7	1787.9	1802.8	1808.6	1804.2	1786.2	1766.8
20°	1555.9	1544.6	1591.6	1615.6	1636.0	1687.0	1730.9	1747.8	1774.8	1774.3	1769.2
22.5°	1339.4	1342.1	1386.6	1415.1	1474.7	1525.7	1575.8	1639.2	1691.5	1726.1	1746.4
25°	984.2	1003.6	1048.0	1086.8	1153.1	1248.1	1334.3	1434.4	1528.8	1603.3	1674.3
27.5°	739.1	740.6	775.8	811.6	851.0	928.8	1037.4	1156.9	1291.5	1402.6	1530.4
30°	633.0	629.9	644.7	666.7	700.3	760.6	842.2	959.7	1093.9	1261.3	1410.4
32.5°	557.8	558.0	569.2	585.4	613.4	654.0	709.9	805.3	932.2	1096.8	1271.5
35°	484.9	484.4	492.6	504.3	516.1	542.1	580.4	630.4	717.7	871.3	1050.0
37.5°	432.7	434.9	438.9	446.2	459.2	473.7	496.7	530.3	592.4	683.3	833.5
40°	403.3	404.3	409.9	416.0	423.7	434.9	453.8	480.8	526.3	598.8	708.5
42.5°	376.3	377.3	381.3	387.0	393.0	404.3	419.9	443.3	480.1	536.7	627.2
45°	336.9	336.9	340.5	343.0	349.7	359.9	372.6	392.0	417.6	459.4	519.6
47.5°	299.9	300.0	302.4	306.8	311.0	318.9	331.5	347.3	365.9	398.3	449.7
50°	278.7	279.2	280.7	284.3	286.9	294.0	303.7	317.5	336.9	361.9	404.8
52.5°	261.6	261.2	263.2	264.7	266.5	271.6	278.8	291.0	308.3	330.1	365.6
55°	233.8	231.7	234.8	237.4	238.9	240.9	245.0	252.7	267.5	285.9	312.4
57.5°	199.1	198.3	200.4	202.8	207.6	213.1	216.5	221.4	229.1	242.3	268.6
60°	170.5	170.5	175.1	176.6	182.2	189.4	196.5	200.6	208.3	216.9	236.3
62.5°	145.2	145.6	147.7	149.3	152.4	161.2	171.2	180.2	187.4	195.7	208.6
65°	121.5	122.5	122.5	123.5	125.6	127.6	131.7	138.8	151.6	163.3	173.0
67.5°	103.1	103.4	103.7	104.7	105.3	107.5	109.1	112.3	115.3	126.4	138.4
70°	90.9	92.4	91.9	92.9	93.4	94.4	96.5	98.0	102.6	105.2	112.3
72.5°	79.4	80.5	80.4	81.1	82.4	82.6	84.2	85.8	88.7	90.9	94.7
75°	64.3	63.8	64.3	65.3	65.8	66.4	66.4	68.4	69.9	72.0	74.5
77.5°	49.6	50.1	50.0	50.1	50.2	51.1	51.0	52.0	53.5	54.5	55.7
80°	39.8	40.3	39.8	40.3	40.8	41.3	40.8	41.3	42.9	43.9	43.9
82.5°	30.8	30.9	31.2	31.3	31.4	31.5	32.3	32.4	33.5	33.3	33.7
85°	18.4	17.9	17.9	17.9	18.4	18.9	18.4	18.4	18.9	18.9	18.9
87.5°	11.7	12.0	11.9	11.8	11.8	11.6	11.4	11.6	11.0	11.2	10.4
90°	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2	20.2	19.1	17.4
92.5°	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3	22.7	22.2	21.3
95°	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4	38.3	37.3	35.8
97.5°	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6	50.7	49.9	46.4
100°	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9	56.2	54.5	50.9
102.5°	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4	58.2	56.0	86.2
105°	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0	60.6	58.3	116.3
107.5°	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8	79.2	81.6	151.1
110°	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7	146.0	167.2	228.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8	344.3	421.8	436.9
115°	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9	491.2	589.6	584.3
117.5°	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4	629.2	653.0	649.4
120°	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5	703.0	700.4	696.6
122.5°	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6	747.0	745.5	741.3
125°	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4	808.9	807.4	803.4
127.5°	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6	865.4	863.2	860.2
130°	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8	901.5	899.2	896.8
132.5°	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1	937.1	935.1	932.7
135°	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4	987.3	985.2	983.2
137.5°	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1	1034.1	1032.0	1029.8
140°	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4	1064.5	1062.6	1060.2
142.5°	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3	1092.6	1090.8	1088.2
145°	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4	1131.9	1130.4	1126.8
147.5°	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4	1166.3	1165.2	1161.6
150°	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4	1187.1	1185.8	1182.4
152.5°	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5	1206.2	1204.9	1201.7
155°	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3	1232.0	1230.7	1228.2
157.5°	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0	1253.6	1252.1	1250.3
160°	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7	1266.4	1265.1	1263.9
162.5°	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5	1278.0	1276.6	1275.5
165°	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9	1290.3
167.5°	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9	1304.4	1303.0	1302.4
170°	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1	1310.6	1309.1	1308.7
172.5°	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6	1315.2	1313.7	1313.2
175°	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6	1320.1	1318.6	1318.2
177.5°	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2	1321.0	1319.8	1319.6
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1504.2	1500.9	1498.1	1490.7	1487.1	1478.9	1477.7	1477.3	1466.6	1456.4	1453.6
5°	1555.9	1547.7	1535.4	1521.1	1506.3	1491.0	1480.8	1472.7	1452.2	1432.8	1421.6
7.5°	1607.9	1590.4	1569.2	1542.2	1519.6	1494.3	1475.5	1458.7	1429.7	1401.9	1383.2
10°	1646.7	1618.1	1590.1	1552.8	1523.7	1495.1	1468.6	1445.6	1412.9	1376.2	1350.1
12.5°	1670.8	1639.4	1600.7	1564.2	1526.6	1490.2	1454.7	1425.2	1386.8	1348.8	1317.9
15°	1703.4	1669.7	1622.7	1570.7	1522.2	1474.7	1433.9	1397.1	1347.1	1301.7	1263.9
17.5°	1730.0	1683.7	1633.2	1573.0	1516.9	1456.5	1403.9	1357.0	1301.3	1246.5	1202.0
20°	1738.6	1692.7	1634.5	1574.2	1507.9	1436.9	1380.3	1329.2	1269.5	1209.8	1158.7
22.5°	1733.3	1697.6	1632.8	1560.8	1492.8	1418.5	1354.5	1295.3	1229.1	1168.1	1108.9
25°	1697.3	1685.0	1623.8	1545.1	1467.6	1381.3	1307.3	1242.4	1166.9	1101.6	1037.2
27.5°	1613.2	1639.7	1601.7	1518.0	1431.7	1339.2	1256.0	1182.2	1103.8	1030.3	966.2
30°	1532.4	1593.1	1576.8	1499.2	1402.7	1311.9	1218.5	1141.4	1057.7	982.1	918.8
32.5°	1421.7	1522.1	1538.0	1473.1	1373.3	1273.5	1175.6	1098.9	1011.5	931.9	870.2
35°	1245.5	1395.6	1464.5	1423.1	1323.1	1215.4	1114.3	1025.0	937.2	858.6	797.3
37.5°	1035.3	1239.7	1354.5	1357.5	1265.6	1153.6	1043.6	954.9	865.0	787.8	721.6
40°	898.9	1120.4	1270.0	1303.2	1225.6	1104.6	993.3	903.0	815.2	739.6	663.6
42.5°	776.4	997.1	1181.0	1238.7	1177.0	1056.8	945.2	850.7	765.4	693.9	616.2
45°	627.9	820.8	1023.5	1126.6	1092.4	981.1	863.2	773.3	693.2	631.4	556.9
47.5°	529.6	665.6	861.7	1001.2	1000.6	899.0	783.0	697.0	622.7	564.8	504.4
50°	473.7	592.1	758.0	916.3	929.5	844.3	734.0	648.8	579.4	518.6	470.1
52.5°	423.5	521.1	670.2	821.9	859.7	785.9	678.9	600.2	532.8	477.0	435.4
55°	357.8	433.4	546.7	688.6	745.8	693.7	598.8	525.3	470.6	423.7	387.9
57.5°	302.7	359.4	450.3	564.6	631.1	598.4	520.0	460.3	413.6	371.1	342.9
60°	268.0	314.4	391.5	487.0	560.5	537.5	470.6	415.0	375.2	338.4	311.9
62.5°	235.3	275.2	341.3	418.8	486.2	476.7	422.0	375.4	340.5	307.0	284.5
65°	189.4	218.5	270.0	330.8	384.9	389.5	350.2	318.5	287.4	260.8	240.9
67.5°	150.8	169.8	206.1	257.3	297.8	312.3	288.3	264.1	239.4	218.9	201.6
70°	127.1	142.4	169.0	210.3	247.6	262.9	249.1	230.2	208.8	191.9	177.1
72.5°	103.0	117.9	137.5	167.8	199.8	216.3	211.5	198.0	180.6	166.6	152.6
75°	77.6	82.2	95.5	115.9	140.9	155.2	158.8	151.6	137.8	127.1	118.9
77.5°	57.4	60.1	66.5	77.2	93.5	106.3	111.5	110.7	101.2	94.9	87.3
80°	45.9	47.5	50.5	55.1	67.4	80.1	83.7	83.7	77.1	74.5	66.9
82.5°	34.9	36.0	37.9	40.4	46.1	57.3	61.3	62.1	57.9	54.5	48.5
85°	19.9	19.4	20.4	21.9	23.0	26.0	32.2	33.2	32.2	28.1	26.5
87.5°	10.1	10.2	9.8	9.0	8.9	8.9	10.5	12.0	10.9	10.1	9.8
90°	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0	3.3	5.6	8.0
92.5°	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3	19.1	18.9	18.7
95°	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1	55.1	48.1	41.1
97.5°	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3	103.5	83.8	64.0
100°	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1	140.0	110.9	81.9
102.5°	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6	213.4	207.3	201.1
105°	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5	296.9	303.2	309.6
107.5°	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3	376.5	381.6	386.7
110°	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3	427.8	432.2	436.7





TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2	476.2	480.1	484.1
115°	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4	553.0	556.7	560.3
117.5°	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4	622.5	626.5	630.5
120°	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9	672.1	675.2	678.4
122.5°	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7	715.0	718.4	721.7
125°	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8	779.6	782.4	785.1
127.5°	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9	839.0	842.0	845.1
130°	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4	876.8	880.2	883.5
132.5°	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6	914.5	917.4	920.2
135°	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3	964.7	968.1	971.5
137.5°	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5	1013.9	1016.3	1018.7
140°	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4	1046.1	1047.8	1049.5
142.5°	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9	1073.4	1075.0	1076.5
145°	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1	1114.9	1114.7	1114.5
147.5°	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8	1151.9	1151.1	1150.3
150°	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2	1175.7	1174.2	1172.8
152.5°	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9	1196.2	1194.5	1192.9
155°	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9	1225.9	1224.0	1222.1
157.5°	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4	1249.8	1248.1	1246.5
160°	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1263.9	1262.6	1261.3
162.5°	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4	1276.1	1274.8	1273.5
165°	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8	1292.5	1291.2	1290.0
167.5°	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0	1304.7	1303.5	1302.2
170°	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9	1311.6	1310.4	1309.1
172.5°	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5	1316.2	1314.9	1313.7
175°	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4	1321.9	1320.4	1319.0
177.5°	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4	1323.2	1322.0	1320.8
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1448.3	1445.4	1440.1	1431.9	1427.0	1418.4	1412.7	1416.0	1416.8	1416.0	1415.2
5°	1409.4	1398.6	1383.8	1369.5	1356.3	1342.0	1333.8	1330.2	1323.1	1319.0	1317.0
7.5°	1362.3	1343.8	1322.9	1298.0	1276.8	1254.7	1243.4	1237.7	1223.1	1215.2	1208.2
10°	1327.2	1298.1	1277.2	1244.5	1224.6	1195.5	1175.6	1176.1	1156.2	1144.9	1136.8
12.5°	1288.4	1256.4	1221.6	1192.2	1164.5	1141.2	1117.2	1107.5	1086.3	1075.5	1053.5
15°	1224.1	1186.8	1150.1	1110.2	1082.2	1045.9	1011.2	968.8	934.6	905.0	896.9
17.5°	1153.8	1107.7	1070.8	1024.1	976.0	915.0	874.8	850.2	829.6	814.0	802.3
20°	1105.6	1058.7	1019.4	948.9	884.1	842.8	813.2	794.3	772.8	756.0	746.8
22.5°	1055.0	1006.0	952.4	873.8	823.3	790.1	763.7	742.0	727.5	714.3	706.0
25°	983.1	929.5	841.2	787.1	746.3	711.6	693.2	679.9	664.6	646.7	638.6
27.5°	907.2	821.9	758.5	718.3	679.3	656.7	640.2	620.4	606.7	598.7	590.2
30°	850.4	765.2	715.7	671.8	644.2	619.2	599.8	588.6	575.3	561.5	555.9
32.5°	787.1	719.0	671.6	635.0	607.0	585.7	570.4	552.2	542.6	534.1	522.4
35°	708.5	657.0	613.6	584.0	557.4	540.1	522.2	511.5	494.1	487.0	482.4
37.5°	641.9	597.2	564.9	533.6	512.6	493.4	482.5	465.4	457.9	448.0	438.3
40°	604.4	560.5	529.3	503.8	480.3	466.0	452.3	438.5	427.2	422.7	410.9
42.5°	566.0	530.3	499.1	471.1	455.4	440.3	422.9	412.8	401.1	393.7	386.4
45°	513.0	481.4	454.8	431.8	414.5	398.7	387.4	370.6	364.0	349.1	343.0
47.5°	466.5	437.0	411.7	389.9	372.9	362.6	346.2	333.0	322.4	313.3	305.5
50°	433.4	408.9	384.4	365.0	349.7	334.9	318.0	311.4	295.0	290.4	285.9
52.5°	403.2	379.9	357.4	338.4	323.1	308.7	293.9	285.2	274.2	269.6	266.3
55°	360.9	338.4	317.0	300.1	284.8	270.0	260.8	250.1	245.0	241.4	237.4
57.5°	318.4	298.2	281.8	264.7	249.3	237.6	226.9	220.5	215.2	210.5	205.6
60°	291.5	272.1	257.3	241.4	225.6	215.9	207.8	200.1	194.0	186.8	184.8
62.5°	262.9	245.9	232.4	216.9	203.2	194.3	186.5	179.3	171.9	161.5	158.6
65°	223.6	210.3	196.0	183.3	171.0	162.3	151.1	142.9	139.9	138.8	138.3
67.5°	188.1	175.5	163.2	150.2	139.0	131.0	125.3	124.0	121.9	121.3	119.9
70°	164.4	152.6	140.4	128.1	117.4	115.9	113.8	111.8	109.2	108.2	107.2
72.5°	143.1	131.0	118.7	108.9	104.3	102.4	100.4	98.3	96.6	95.6	94.9
75°	109.7	98.5	90.4	86.8	84.2	82.7	79.6	78.1	77.1	75.5	75.0
77.5°	79.0	72.7	68.9	66.7	64.0	62.4	60.6	59.1	58.0	57.7	56.9
80°	60.2	57.2	54.6	51.6	50.5	48.5	48.0	46.5	47.0	45.4	45.4
82.5°	46.8	42.9	40.7	39.3	38.3	36.7	36.1	35.4	35.5	34.4	34.4
85°	24.0	23.0	21.9	20.9	20.9	19.4	19.9	19.4	19.4	18.4	17.9
87.5°	9.8	9.8	9.3	9.7	10.0	9.9	10.2	10.0	10.2	10.4	10.1
90°	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2	22.3	23.4	24.1
92.5°	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3	23.8	24.4	24.8
95°	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4	40.5	41.5	41.9
97.5°	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6	52.4	53.3	53.8
100°	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9	59.6	61.3	62.3
102.5°	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4	62.6	64.8	66.2
105°	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0	65.3	67.6	69.2
107.5°	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8	74.5	72.1	71.3
110°	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7	103.5	82.3	72.1



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8	189.4	111.9	73.5
115°	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9	294.6	196.3	139.5
117.5°	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4	581.7	557.9	520.9
120°	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5	708.0	710.6	697.5
122.5°	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6	750.1	751.6	749.6
125°	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4	811.9	813.4	814.4
127.5°	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6	869.7	871.9	873.0
130°	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8	906.2	908.5	909.6
132.5°	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1	941.1	943.1	944.0
135°	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4	991.5	993.6	994.5
137.5°	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1	1038.2	1040.3	1041.0
140°	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4	1068.3	1070.2	1070.6
142.5°	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3	1096.1	1097.8	1098.1
145°	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4	1134.9	1136.3	1136.6
147.5°	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4	1168.5	1169.6	1169.7
150°	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4	1189.6	1190.9	1191.0
152.5°	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5	1208.7	1210.0	1210.0
155°	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3	1234.5	1235.8	1235.6
157.5°	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0	1256.5	1257.9	1257.8
160°	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7	1268.9	1270.2	1270.1
162.5°	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5	1280.9	1282.4	1282.2
165°	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9
167.5°	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9	1307.4	1308.9	1308.7
170°	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1	1313.5	1315.0	1314.8
172.5°	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6	1318.1	1319.6	1319.4
175°	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6	1323.1	1324.6	1324.3
177.5°	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2	1323.3	1324.5	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331813

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1410.7	1411.5	1410.3	1411.1	1410.3	1411.5	1410.7	1415.2	1416.0	1416.8	1416.0
5°	1314.4	1308.3	1307.3	1305.7	1307.3	1308.3	1314.4	1317.0	1319.0	1323.1	1330.2
7.5°	1199.5	1198.5	1196.0	1192.4	1196.0	1198.5	1199.5	1208.2	1215.2	1223.1	1237.7
10°	1125.5	1123.0	1122.5	1118.9	1122.5	1123.0	1125.5	1136.8	1144.9	1156.2	1176.1
12.5°	1039.0	1022.5	1020.8	1011.9	1020.8	1022.5	1039.0	1053.5	1075.5	1086.3	1107.5
15°	884.6	881.6	871.3	864.7	871.3	881.6	884.6	896.9	905.0	934.6	968.8
17.5°	796.4	786.4	783.2	781.8	783.2	786.4	796.4	802.3	814.0	829.6	850.2
20°	739.6	730.5	728.9	727.9	728.9	730.5	739.6	746.8	756.0	772.8	794.3
22.5°	700.4	690.8	686.9	683.8	686.9	690.8	700.4	706.0	714.3	727.5	742.0
25°	633.5	629.9	627.9	626.8	627.9	629.9	633.5	638.6	646.7	664.6	679.9
27.5°	581.1	573.2	571.7	569.1	571.7	573.2	581.1	590.2	598.7	606.7	620.4
30°	551.3	548.7	545.2	542.1	545.2	548.7	551.3	555.9	561.5	575.3	588.6
32.5°	516.2	514.0	510.9	509.4	510.9	514.0	516.2	522.4	534.1	542.6	552.2
35°	477.3	470.1	467.1	462.5	467.1	470.1	477.3	482.4	487.0	494.1	511.5
37.5°	436.1	432.4	428.1	429.6	428.1	432.4	436.1	438.3	448.0	457.9	465.4
40°	404.3	401.7	400.7	400.2	400.7	401.7	404.3	410.9	422.7	427.2	438.5
42.5°	379.0	371.9	369.3	369.2	369.3	371.9	379.0	386.4	393.7	401.1	412.8
45°	340.5	333.8	329.2	329.8	329.2	333.8	340.5	343.0	349.1	364.0	370.6
47.5°	301.1	300.9	298.0	298.9	298.0	300.9	301.1	305.5	313.3	322.4	333.0
50°	282.3	279.2	277.2	277.7	277.2	279.2	282.3	285.9	290.4	295.0	311.4
52.5°	264.3	261.7	260.0	262.2	260.0	261.7	264.3	266.3	269.6	274.2	285.2
55°	234.8	231.7	231.2	230.7	231.2	231.7	234.8	237.4	241.4	245.0	250.1
57.5°	201.8	199.8	196.7	195.4	196.7	199.8	201.8	205.6	210.5	215.2	220.5
60°	178.1	174.1	169.0	168.4	169.0	174.1	178.1	184.8	186.8	194.0	200.1
62.5°	156.5	155.7	154.7	154.6	154.7	155.7	156.5	158.6	161.5	171.9	179.3
65°	137.3	136.8	137.3	137.8	137.3	136.8	137.3	138.3	138.8	139.9	142.9
67.5°	119.7	118.7	117.8	118.2	117.8	118.7	119.7	119.9	121.3	121.9	124.0
70°	106.2	105.7	105.2	105.2	105.2	105.7	106.2	107.2	108.2	109.2	111.8
72.5°	93.1	93.0	92.5	92.1	92.5	93.0	93.1	94.9	95.6	96.6	98.3
75°	74.5	73.5	73.5	73.5	73.5	73.5	74.5	75.0	75.5	77.1	78.1
77.5°	56.8	56.3	55.7	55.3	55.7	56.3	56.8	56.9	57.7	58.0	59.1
80°	44.9	44.4	43.9	43.9	43.9	44.4	44.9	45.4	45.4	47.0	46.5
82.5°	34.3	33.8	33.7	33.3	33.7	33.8	34.3	34.4	34.4	35.5	35.4
85°	18.4	18.9	18.4	19.4	18.4	18.9	18.4	17.9	18.4	19.4	19.4
87.5°	10.2	9.9	10.4	10.1	10.4	9.9	10.2	10.1	10.4	10.2	10.0
90°	24.5	24.9	25.4	25.8	25.4	24.9	24.5	24.1	23.4	22.3	21.2
92.5°	25.0	25.3	25.5	25.8	25.5	25.3	25.0	24.8	24.4	23.8	23.3
95°	41.7	41.5	41.3	41.1	41.3	41.5	41.7	41.9	41.5	40.5	39.4
97.5°	54.1	54.3	54.6	54.8	54.6	54.3	54.1	53.8	53.3	52.4	51.6
100°	62.7	63.2	63.6	64.0	63.6	63.2	62.7	62.3	61.3	59.6	57.9
102.5°	66.8	67.4	68.0	68.6	68.0	67.4	66.8	66.2	64.8	62.6	60.4
105°	70.1	70.9	71.8	72.6	71.8	70.9	70.1	69.2	67.6	65.3	63.0
107.5°	72.2	73.0	73.9	74.7	73.9	73.0	72.2	71.3	72.1	74.5	76.8
110°	72.9	73.8	74.6	75.5	74.6	73.8	72.9	72.1	82.3	103.5	124.7



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	74.2	74.9	75.6	76.3	75.6	74.9	74.2	73.5	111.9	189.4	266.8
115°	124.2	108.9	93.6	78.4	93.6	108.9	124.2	139.5	196.3	294.6	392.9
117.5°	470.6	420.4	370.2	319.9	370.2	420.4	470.6	520.9	557.9	581.7	605.4
120°	668.9	640.2	611.5	582.9	611.5	640.2	668.9	697.5	710.6	708.0	705.5
122.5°	744.0	738.5	732.9	727.4	732.9	738.5	744.0	749.6	751.6	750.1	748.6
125°	815.1	815.7	816.3	817.0	816.3	815.7	815.1	814.4	813.4	811.9	810.4
127.5°	873.2	873.3	873.4	873.5	873.4	873.3	873.2	873.0	871.9	869.7	867.6
130°	909.3	909.1	908.9	908.7	908.9	909.1	909.3	909.6	908.5	906.2	903.8
132.5°	943.7	943.5	943.3	943.1	943.3	943.5	943.7	944.0	943.1	941.1	939.1
135°	994.1	993.6	993.2	992.8	993.2	993.6	994.1	994.5	993.6	991.5	989.4
137.5°	1040.3	1039.5	1038.8	1038.1	1038.8	1039.5	1040.3	1041.0	1040.3	1038.2	1036.1
140°	1069.6	1068.5	1067.4	1066.4	1067.4	1068.5	1069.6	1070.6	1070.2	1068.3	1066.4
142.5°	1097.1	1096.0	1095.0	1093.9	1095.0	1096.0	1097.1	1098.1	1097.8	1096.1	1094.3
145°	1135.5	1134.4	1133.4	1132.3	1133.4	1134.4	1135.5	1136.6	1136.3	1134.9	1133.4
147.5°	1168.8	1167.9	1167.0	1166.1	1167.0	1167.9	1168.8	1169.7	1169.6	1168.5	1167.4
150°	1190.0	1188.9	1187.8	1186.8	1187.8	1188.9	1190.0	1191.0	1190.9	1189.6	1188.4
152.5°	1208.6	1207.2	1205.8	1204.4	1205.8	1207.2	1208.6	1210.0	1210.0	1208.7	1207.5
155°	1233.9	1232.2	1230.5	1228.8	1230.5	1232.2	1233.9	1235.6	1235.8	1234.5	1233.3
157.5°	1256.1	1254.5	1252.8	1251.2	1252.8	1254.5	1256.1	1257.8	1257.9	1256.5	1255.0
160°	1268.6	1267.1	1265.7	1264.2	1265.7	1267.1	1268.6	1270.1	1270.2	1268.9	1267.7
162.5°	1280.3	1278.5	1276.7	1274.9	1276.7	1278.5	1280.3	1282.2	1282.4	1280.9	1279.5
165°	1295.4	1293.9	1292.4	1290.9	1292.4	1293.9	1295.4	1296.9	1296.9	1295.4	1293.9
167.5°	1306.8	1304.9	1303.0	1301.1	1303.0	1304.9	1306.8	1308.7	1308.9	1307.4	1305.9
170°	1312.9	1311.0	1309.1	1307.2	1309.1	1311.0	1312.9	1314.8	1315.0	1313.5	1312.1
172.5°	1317.5	1315.6	1313.7	1311.8	1313.7	1315.6	1317.5	1319.4	1319.6	1318.1	1316.6
175°	1322.1	1320.0	1317.9	1315.8	1317.9	1320.0	1322.1	1324.3	1324.6	1323.1	1321.6
177.5°	1322.8	1321.3	1319.8	1318.3	1319.8	1321.3	1322.8	1324.4	1324.5	1323.3	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1412.7	1418.4	1427.0	1431.9	1440.1	1445.4	1448.3	1453.6	1456.4	1466.6	1477.3
5°	1333.8	1342.0	1356.3	1369.5	1383.8	1398.6	1409.4	1421.6	1432.8	1452.2	1472.7
7.5°	1243.4	1254.7	1276.8	1298.0	1322.9	1343.8	1362.3	1383.2	1401.9	1429.7	1458.7
10°	1175.6	1195.5	1224.6	1244.5	1277.2	1298.1	1327.2	1350.1	1376.2	1412.9	1445.6
12.5°	1117.2	1141.2	1164.5	1192.2	1221.6	1256.4	1288.4	1317.9	1348.8	1386.8	1425.2
15°	1011.2	1045.9	1082.2	1110.2	1150.1	1186.8	1224.1	1263.9	1301.7	1347.1	1397.1
17.5°	874.8	915.0	976.0	1024.1	1070.8	1107.7	1153.8	1202.0	1246.5	1301.3	1357.0
20°	813.2	842.8	884.1	948.9	1019.4	1058.7	1105.6	1158.7	1209.8	1269.5	1329.2
22.5°	763.7	790.1	823.3	873.8	952.4	1006.0	1055.0	1108.9	1168.1	1229.1	1295.3
25°	693.2	711.6	746.3	787.1	841.2	929.5	983.1	1037.2	1101.6	1166.9	1242.4
27.5°	640.2	656.7	679.3	718.3	758.5	821.9	907.2	966.2	1030.3	1103.8	1182.2
30°	599.8	619.2	644.2	671.8	715.7	765.2	850.4	918.8	982.1	1057.7	1141.4
32.5°	570.4	585.7	607.0	635.0	671.6	719.0	787.1	870.2	931.9	1011.5	1098.9
35°	522.2	540.1	557.4	584.0	613.6	657.0	708.5	797.3	858.6	937.2	1025.0
37.5°	482.5	493.4	512.6	533.6	564.9	597.2	641.9	721.6	787.8	865.0	954.9
40°	452.3	466.0	480.3	503.8	529.3	560.5	604.4	663.6	739.6	815.2	903.0
42.5°	422.9	440.3	455.4	471.1	499.1	530.3	566.0	616.2	693.9	765.4	850.7
45°	387.4	398.7	414.5	431.8	454.8	481.4	513.0	556.9	631.4	693.2	773.3
47.5°	346.2	362.6	372.9	389.9	411.7	437.0	466.5	504.4	564.8	622.7	697.0
50°	318.0	334.9	349.7	365.0	384.4	408.9	433.4	470.1	518.6	579.4	648.8
52.5°	293.9	308.7	323.1	338.4	357.4	379.9	403.2	435.4	477.0	532.8	600.2
55°	260.8	270.0	284.8	300.1	317.0	338.4	360.9	387.9	423.7	470.6	525.3
57.5°	226.9	237.6	249.3	264.7	281.8	298.2	318.4	342.9	371.1	413.6	460.3
60°	207.8	215.9	225.6	241.4	257.3	272.1	291.5	311.9	338.4	375.2	415.0
62.5°	186.5	194.3	203.2	216.9	232.4	245.9	262.9	284.5	307.0	340.5	375.4
65°	151.1	162.3	171.0	183.3	196.0	210.3	223.6	240.9	260.8	287.4	318.5
67.5°	125.3	131.0	139.0	150.2	163.2	175.5	188.1	201.6	218.9	239.4	264.1
70°	113.8	115.9	117.4	128.1	140.4	152.6	164.4	177.1	191.9	208.8	230.2
72.5°	100.4	102.4	104.3	108.9	118.7	131.0	143.1	152.6	166.6	180.6	198.0
75°	79.6	82.7	84.2	86.8	90.4	98.5	109.7	118.9	127.1	137.8	151.6
77.5°	60.6	62.4	64.0	66.7	68.9	72.7	79.0	87.3	94.9	101.2	110.7
80°	48.0	48.5	50.5	51.6	54.6	57.2	60.2	66.9	74.5	77.1	83.7
82.5°	36.1	36.7	38.3	39.3	40.7	42.9	46.8	48.5	54.5	57.9	62.1
85°	19.9	19.4	20.9	20.9	21.9	23.0	24.0	26.5	28.1	32.2	33.2
87.5°	10.2	9.9	10.0	9.7	9.3	9.8	9.8	9.8	10.1	10.9	12.0
90°	20.2	19.1	17.4	15.7	14.0	12.3	10.3	8.0	5.6	3.3	1.0
92.5°	22.7	22.2	21.3	20.5	19.6	18.8	18.5	18.7	18.9	19.1	19.3
95°	38.3	37.3	35.8	34.3	32.8	31.3	34.1	41.1	48.1	55.1	62.1
97.5°	50.7	49.9	46.4	43.0	39.6	36.1	44.3	64.0	83.8	103.5	123.3
100°	56.2	54.5	50.9	47.2	43.6	40.0	52.8	81.9	110.9	140.0	169.1
102.5°	58.2	56.0	86.2	116.4	146.6	176.8	194.9	201.1	207.3	213.4	219.6
105°	60.6	58.3	116.3	174.2	232.2	290.2	316.0	309.6	303.2	296.9	290.5
107.5°	79.2	81.6	151.1	220.6	290.2	359.7	391.9	386.7	381.6	376.5	371.3
110°	146.0	167.2	228.6	290.0	351.3	412.7	441.1	436.7	432.2	427.8	423.3



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	344.3	421.8	436.9	452.1	467.3	482.4	488.0	484.1	480.1	476.2	472.2
115°	491.2	589.6	584.3	578.9	573.6	568.3	563.9	560.3	556.7	553.0	549.4
117.5°	629.2	653.0	649.4	645.7	642.1	638.4	634.6	630.5	626.5	622.5	618.4
120°	703.0	700.4	696.6	692.8	688.9	685.1	681.6	678.4	675.2	672.1	668.9
122.5°	747.0	745.5	741.3	737.2	733.0	728.9	725.1	721.7	718.4	715.0	711.7
125°	808.9	807.4	803.4	799.4	795.3	791.3	787.9	785.1	782.4	779.6	776.8
127.5°	865.4	863.2	860.2	857.2	854.2	851.2	848.1	845.1	842.0	839.0	835.9
130°	901.5	899.2	896.8	894.5	892.1	889.8	886.9	883.5	880.2	876.8	873.4
132.5°	937.1	935.1	932.7	930.4	928.1	925.7	923.1	920.2	917.4	914.5	911.6
135°	987.3	985.2	983.2	981.3	979.4	977.5	974.9	971.5	968.1	964.7	961.3
137.5°	1034.1	1032.0	1029.8	1027.6	1025.5	1023.3	1021.0	1018.7	1016.3	1013.9	1011.5
140°	1064.5	1062.6	1060.2	1057.9	1055.5	1053.2	1051.2	1049.5	1047.8	1046.1	1044.4
142.5°	1092.6	1090.8	1088.2	1085.5	1082.8	1080.1	1078.0	1076.5	1075.0	1073.4	1071.9
145°	1131.9	1130.4	1126.8	1123.2	1119.6	1116.0	1114.3	1114.5	1114.7	1114.9	1115.1
147.5°	1166.3	1165.2	1161.6	1158.0	1154.5	1150.9	1149.5	1150.3	1151.1	1151.9	1152.8
150°	1187.1	1185.8	1182.4	1179.0	1175.6	1172.2	1171.3	1172.8	1174.2	1175.7	1177.2
152.5°	1206.2	1204.9	1201.7	1198.5	1195.2	1192.0	1191.2	1192.9	1194.5	1196.2	1197.9
155°	1232.0	1230.7	1228.2	1225.6	1223.1	1220.5	1220.2	1222.1	1224.0	1225.9	1227.9
157.5°	1253.6	1252.1	1250.3	1248.6	1246.8	1245.0	1244.9	1246.5	1248.1	1249.8	1251.4
160°	1266.4	1265.1	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1
162.5°	1278.0	1276.6	1275.5	1274.4	1273.3	1272.2	1272.3	1273.5	1274.8	1276.1	1277.4
165°	1292.4	1290.9	1290.3	1289.6	1289.0	1288.4	1288.7	1290.0	1291.2	1292.5	1293.8
167.5°	1304.4	1303.0	1302.4	1301.8	1301.2	1300.6	1300.9	1302.2	1303.5	1304.7	1306.0
170°	1310.6	1309.1	1308.7	1308.2	1307.8	1307.4	1307.8	1309.1	1310.4	1311.6	1312.9
172.5°	1315.2	1313.7	1313.2	1312.8	1312.4	1312.0	1312.4	1313.7	1314.9	1316.2	1317.5
175°	1320.1	1318.6	1318.2	1317.8	1317.4	1316.9	1317.5	1319.0	1320.4	1321.9	1323.4
177.5°	1321.0	1319.8	1319.6	1319.4	1319.3	1319.1	1319.6	1320.8	1322.0	1323.2	1324.4
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



TEST NUMBER: P331813

CATALOG NUMBER: S122RDIW-S675D970U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1477.7	1478.9	1487.1	1490.7	1498.1	1500.9	1504.2	1503.4	1503.4	1505.0	1516.5
5°	1480.8	1491.0	1506.3	1521.1	1535.4	1547.7	1555.9	1564.0	1567.1	1581.9	1595.2
7.5°	1475.5	1494.3	1519.6	1542.2	1569.2	1590.4	1607.9	1623.8	1634.6	1656.1	1678.2
10°	1468.6	1495.1	1523.7	1552.8	1590.1	1618.1	1646.7	1668.7	1675.8	1708.0	1726.4
12.5°	1454.7	1490.2	1526.6	1564.2	1600.7	1639.4	1670.8	1692.8	1717.9	1746.8	1780.7
15°	1433.9	1474.7	1522.2	1570.7	1622.7	1669.7	1703.4	1741.7	1769.2	1800.9	1830.5
17.5°	1403.9	1456.5	1516.9	1573.0	1633.2	1683.7	1730.0	1766.8	1786.2	1804.2	1808.6
20°	1380.3	1436.9	1507.9	1574.2	1634.5	1692.7	1738.6	1769.2	1774.3	1774.8	1747.8
22.5°	1354.5	1418.5	1492.8	1560.8	1632.8	1697.6	1733.3	1746.4	1726.1	1691.5	1639.2
25°	1307.3	1381.3	1467.6	1545.1	1623.8	1685.0	1697.3	1674.3	1603.3	1528.8	1434.4
27.5°	1256.0	1339.2	1431.7	1518.0	1601.7	1639.7	1613.2	1530.4	1402.6	1291.5	1156.9
30°	1218.5	1311.9	1402.7	1499.2	1576.8	1593.1	1532.4	1410.4	1261.3	1093.9	959.7
32.5°	1175.6	1273.5	1373.3	1473.1	1538.0	1522.1	1421.7	1271.5	1096.8	932.2	805.3
35°	1114.3	1215.4	1323.1	1423.1	1464.5	1395.6	1245.5	1050.0	871.3	717.7	630.4
37.5°	1043.6	1153.6	1265.6	1357.5	1354.5	1239.7	1035.3	833.5	683.3	592.4	530.3
40°	993.3	1104.6	1225.6	1303.2	1270.0	1120.4	898.9	708.5	598.8	526.3	480.8
42.5°	945.2	1056.8	1177.0	1238.7	1181.0	997.1	776.4	627.2	536.7	480.1	443.3
45°	863.2	981.1	1092.4	1126.6	1023.5	820.8	627.9	519.6	459.4	417.6	392.0
47.5°	783.0	899.0	1000.6	1001.2	861.7	665.6	529.6	449.7	398.3	365.9	347.3
50°	734.0	844.3	929.5	916.3	758.0	592.1	473.7	404.8	361.9	336.9	317.5
52.5°	678.9	785.9	859.7	821.9	670.2	521.1	423.5	365.6	330.1	308.3	291.0
55°	598.8	693.7	745.8	688.6	546.7	433.4	357.8	312.4	285.9	267.5	252.7
57.5°	520.0	598.4	631.1	564.6	450.3	359.4	302.7	268.6	242.3	229.1	221.4
60°	470.6	537.5	560.5	487.0	391.5	314.4	268.0	236.3	216.9	208.3	200.6
62.5°	422.0	476.7	486.2	418.8	341.3	275.2	235.3	208.6	195.7	187.4	180.2
65°	350.2	389.5	384.9	330.8	270.0	218.5	189.4	173.0	163.3	151.6	138.8
67.5°	288.3	312.3	297.8	257.3	206.1	169.8	150.8	138.4	126.4	115.3	112.3
70°	249.1	262.9	247.6	210.3	169.0	142.4	127.1	112.3	105.2	102.6	98.0
72.5°	211.5	216.3	199.8	167.8	137.5	117.9	103.0	94.7	90.9	88.7	85.8
75°	158.8	155.2	140.9	115.9	95.5	82.2	77.6	74.5	72.0	69.9	68.4
77.5°	111.5	106.3	93.5	77.2	66.5	60.1	57.4	55.7	54.5	53.5	52.0
80°	83.7	80.1	67.4	55.1	50.5	47.5	45.9	43.9	43.9	42.9	41.3
82.5°	61.3	57.3	46.1	40.4	37.9	36.0	34.9	33.7	33.3	33.5	32.4
85°	32.2	26.0	23.0	21.9	20.4	19.4	19.9	18.9	18.9	18.9	18.4
87.5°	10.5	8.9	8.9	9.0	9.8	10.2	10.1	10.4	11.2	11.0	11.6
90°	3.3	5.6	8.0	10.3	12.3	14.0	15.7	17.4	19.1	20.2	21.2
92.5°	19.1	18.9	18.7	18.5	18.8	19.6	20.5	21.3	22.2	22.7	23.3
95°	55.1	48.1	41.1	34.1	31.3	32.8	34.3	35.8	37.3	38.3	39.4
97.5°	103.5	83.8	64.0	44.3	36.1	39.6	43.0	46.4	49.9	50.7	51.6
100°	140.0	110.9	81.9	52.8	40.0	43.6	47.2	50.9	54.5	56.2	57.9
102.5°	213.4	207.3	201.1	194.9	176.8	146.6	116.4	86.2	56.0	58.2	60.4
105°	296.9	303.2	309.6	316.0	290.2	232.2	174.2	116.3	58.3	60.6	63.0
107.5°	376.5	381.6	386.7	391.9	359.7	290.2	220.6	151.1	81.6	79.2	76.8
110°	427.8	432.2	436.7	441.1	412.7	351.3	290.0	228.6	167.2	146.0	124.7





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	476.2	480.1	484.1	488.0	482.4	467.3	452.1	436.9	421.8	344.3	266.8
115°	553.0	556.7	560.3	563.9	568.3	573.6	578.9	584.3	589.6	491.2	392.9
117.5°	622.5	626.5	630.5	634.6	638.4	642.1	645.7	649.4	653.0	629.2	605.4
120°	672.1	675.2	678.4	681.6	685.1	688.9	692.8	696.6	700.4	703.0	705.5
122.5°	715.0	718.4	721.7	725.1	728.9	733.0	737.2	741.3	745.5	747.0	748.6
125°	779.6	782.4	785.1	787.9	791.3	795.3	799.4	803.4	807.4	808.9	810.4
127.5°	839.0	842.0	845.1	848.1	851.2	854.2	857.2	860.2	863.2	865.4	867.6
130°	876.8	880.2	883.5	886.9	889.8	892.1	894.5	896.8	899.2	901.5	903.8
132.5°	914.5	917.4	920.2	923.1	925.7	928.1	930.4	932.7	935.1	937.1	939.1
135°	964.7	968.1	971.5	974.9	977.5	979.4	981.3	983.2	985.2	987.3	989.4
137.5°	1013.9	1016.3	1018.7	1021.0	1023.3	1025.5	1027.6	1029.8	1032.0	1034.1	1036.1
140°	1046.1	1047.8	1049.5	1051.2	1053.2	1055.5	1057.9	1060.2	1062.6	1064.5	1066.4
142.5°	1073.4	1075.0	1076.5	1078.0	1080.1	1082.8	1085.5	1088.2	1090.8	1092.6	1094.3
145°	1114.9	1114.7	1114.5	1114.3	1116.0	1119.6	1123.2	1126.8	1130.4	1131.9	1133.4
147.5°	1151.9	1151.1	1150.3	1149.5	1150.9	1154.5	1158.0	1161.6	1165.2	1166.3	1167.4
150°	1175.7	1174.2	1172.8	1171.3	1172.2	1175.6	1179.0	1182.4	1185.8	1187.1	1188.4
152.5°	1196.2	1194.5	1192.9	1191.2	1192.0	1195.2	1198.5	1201.7	1204.9	1206.2	1207.5
155°	1225.9	1224.0	1222.1	1220.2	1220.5	1223.1	1225.6	1228.2	1230.7	1232.0	1233.3
157.5°	1249.8	1248.1	1246.5	1244.9	1245.0	1246.8	1248.6	1250.3	1252.1	1253.6	1255.0
160°	1263.9	1262.6	1261.3	1260.0	1260.0	1261.3	1262.6	1263.9	1265.1	1266.4	1267.7
162.5°	1276.1	1274.8	1273.5	1272.3	1272.2	1273.3	1274.4	1275.5	1276.6	1278.0	1279.5
165°	1292.5	1291.2	1290.0	1288.7	1288.4	1289.0	1289.6	1290.3	1290.9	1292.4	1293.9
167.5°	1304.7	1303.5	1302.2	1300.9	1300.6	1301.2	1301.8	1302.4	1303.0	1304.4	1305.9
170°	1311.6	1310.4	1309.1	1307.8	1307.4	1307.8	1308.2	1308.7	1309.1	1310.6	1312.1
172.5°	1316.2	1314.9	1313.7	1312.4	1312.0	1312.4	1312.8	1313.2	1313.7	1315.2	1316.6
175°	1321.9	1320.4	1319.0	1317.5	1316.9	1317.4	1317.8	1318.2	1318.6	1320.1	1321.6
177.5°	1323.2	1322.0	1320.8	1319.6	1319.1	1319.3	1319.4	1319.6	1319.8	1321.0	1322.2
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1520.5	1525.8	1528.3	1528.3	1531.2	1529.9	1528.7
5°	1607.9	1617.6	1619.7	1628.9	1635.5	1633.4	1634.5
7.5°	1694.8	1710.4	1725.8	1732.9	1734.0	1738.1	1739.6
10°	1748.3	1761.1	1785.1	1781.5	1799.3	1809.6	1792.7
12.5°	1799.8	1817.0	1833.6	1838.2	1848.4	1851.6	1845.0
15°	1846.3	1855.5	1856.5	1854.0	1857.0	1854.5	1844.8
17.5°	1802.8	1787.9	1757.7	1743.4	1732.1	1715.3	1708.6
20°	1730.9	1687.0	1636.0	1615.6	1591.6	1544.6	1555.9
22.5°	1575.8	1525.7	1474.7	1415.1	1386.6	1342.1	1339.4
25°	1334.3	1248.1	1153.1	1086.8	1048.0	1003.6	984.2
27.5°	1037.4	928.8	851.0	811.6	775.8	740.6	739.1
30°	842.2	760.6	700.3	666.7	644.7	629.9	633.0
32.5°	709.9	654.0	613.4	585.4	569.2	558.0	557.8
35°	580.4	542.1	516.1	504.3	492.6	484.4	484.9
37.5°	496.7	473.7	459.2	446.2	438.9	434.9	432.7
40°	453.8	434.9	423.7	416.0	409.9	404.3	403.3
42.5°	419.9	404.3	393.0	387.0	381.3	377.3	376.3
45°	372.6	359.9	349.7	343.0	340.5	336.9	336.9
47.5°	331.5	318.9	311.0	306.8	302.4	300.0	299.9
50°	303.7	294.0	286.9	284.3	280.7	279.2	278.7
52.5°	278.8	271.6	266.5	264.7	263.2	261.2	261.6
55°	245.0	240.9	238.9	237.4	234.8	231.7	233.8
57.5°	216.5	213.1	207.6	202.8	200.4	198.3	199.1
60°	196.5	189.4	182.2	176.6	175.1	170.5	170.5
62.5°	171.2	161.2	152.4	149.3	147.7	145.6	145.2
65°	131.7	127.6	125.6	123.5	122.5	122.5	121.5
67.5°	109.1	107.5	105.3	104.7	103.7	103.4	103.1
70°	96.5	94.4	93.4	92.9	91.9	92.4	90.9
72.5°	84.2	82.6	82.4	81.1	80.4	80.5	79.4
75°	66.4	66.4	65.8	65.3	64.3	63.8	64.3
77.5°	51.0	51.1	50.2	50.1	50.0	50.1	49.6
80°	40.8	41.3	40.8	40.3	39.8	40.3	39.8
82.5°	32.3	31.5	31.4	31.3	31.2	30.9	30.8
85°	18.4	18.9	18.4	17.9	17.9	17.9	18.4
87.5°	11.4	11.6	11.8	11.8	11.9	12.0	11.7
90°	22.3	23.4	24.1	24.5	24.9	25.4	25.8
92.5°	23.8	24.4	24.8	25.0	25.3	25.5	25.8
95°	40.5	41.5	41.9	41.7	41.5	41.3	41.1
97.5°	52.4	53.3	53.8	54.1	54.3	54.6	54.8
100°	59.6	61.3	62.3	62.7	63.2	63.6	64.0
102.5°	62.6	64.8	66.2	66.8	67.4	68.0	68.6
105°	65.3	67.6	69.2	70.1	70.9	71.8	72.6
107.5°	74.5	72.1	71.3	72.2	73.0	73.9	74.7
110°	103.5	82.3	72.1	72.9	73.8	74.6	75.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.4	111.9	73.5	74.2	74.9	75.6	76.3
115°	294.6	196.3	139.5	124.2	108.9	93.6	78.4
117.5°	581.7	557.9	520.9	470.6	420.4	370.2	319.9
120°	708.0	710.6	697.5	668.9	640.2	611.5	582.9
122.5°	750.1	751.6	749.6	744.0	738.5	732.9	727.4
125°	811.9	813.4	814.4	815.1	815.7	816.3	817.0
127.5°	869.7	871.9	873.0	873.2	873.3	873.4	873.5
130°	906.2	908.5	909.6	909.3	909.1	908.9	908.7
132.5°	941.1	943.1	944.0	943.7	943.5	943.3	943.1
135°	991.5	993.6	994.5	994.1	993.6	993.2	992.8
137.5°	1038.2	1040.3	1041.0	1040.3	1039.5	1038.8	1038.1
140°	1068.3	1070.2	1070.6	1069.6	1068.5	1067.4	1066.4
142.5°	1096.1	1097.8	1098.1	1097.1	1096.0	1095.0	1093.9
145°	1134.9	1136.3	1136.6	1135.5	1134.4	1133.4	1132.3
147.5°	1168.5	1169.6	1169.7	1168.8	1167.9	1167.0	1166.1
150°	1189.6	1190.9	1191.0	1190.0	1188.9	1187.8	1186.8
152.5°	1208.7	1210.0	1210.0	1208.6	1207.2	1205.8	1204.4
155°	1234.5	1235.8	1235.6	1233.9	1232.2	1230.5	1228.8
157.5°	1256.5	1257.9	1257.8	1256.1	1254.5	1252.8	1251.2
160°	1268.9	1270.2	1270.1	1268.6	1267.1	1265.7	1264.2
162.5°	1280.9	1282.4	1282.2	1280.3	1278.5	1276.7	1274.9
165°	1295.4	1296.9	1296.9	1295.4	1293.9	1292.4	1290.9
167.5°	1307.4	1308.9	1308.7	1306.8	1304.9	1303.0	1301.1
170°	1313.5	1315.0	1314.8	1312.9	1311.0	1309.1	1307.2
172.5°	1318.1	1319.6	1319.4	1317.5	1315.6	1313.7	1311.8
175°	1323.1	1324.6	1324.3	1322.1	1320.0	1317.9	1315.8
177.5°	1323.3	1324.5	1324.4	1322.8	1321.3	1319.8	1318.3
180°	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5	1320.5

(END OF REPORT)