

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: P331729-935

Luminaire Tested: **S122RDIP-S865D1080U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331729-935  
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: S122RDIP-S865D1080U935-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

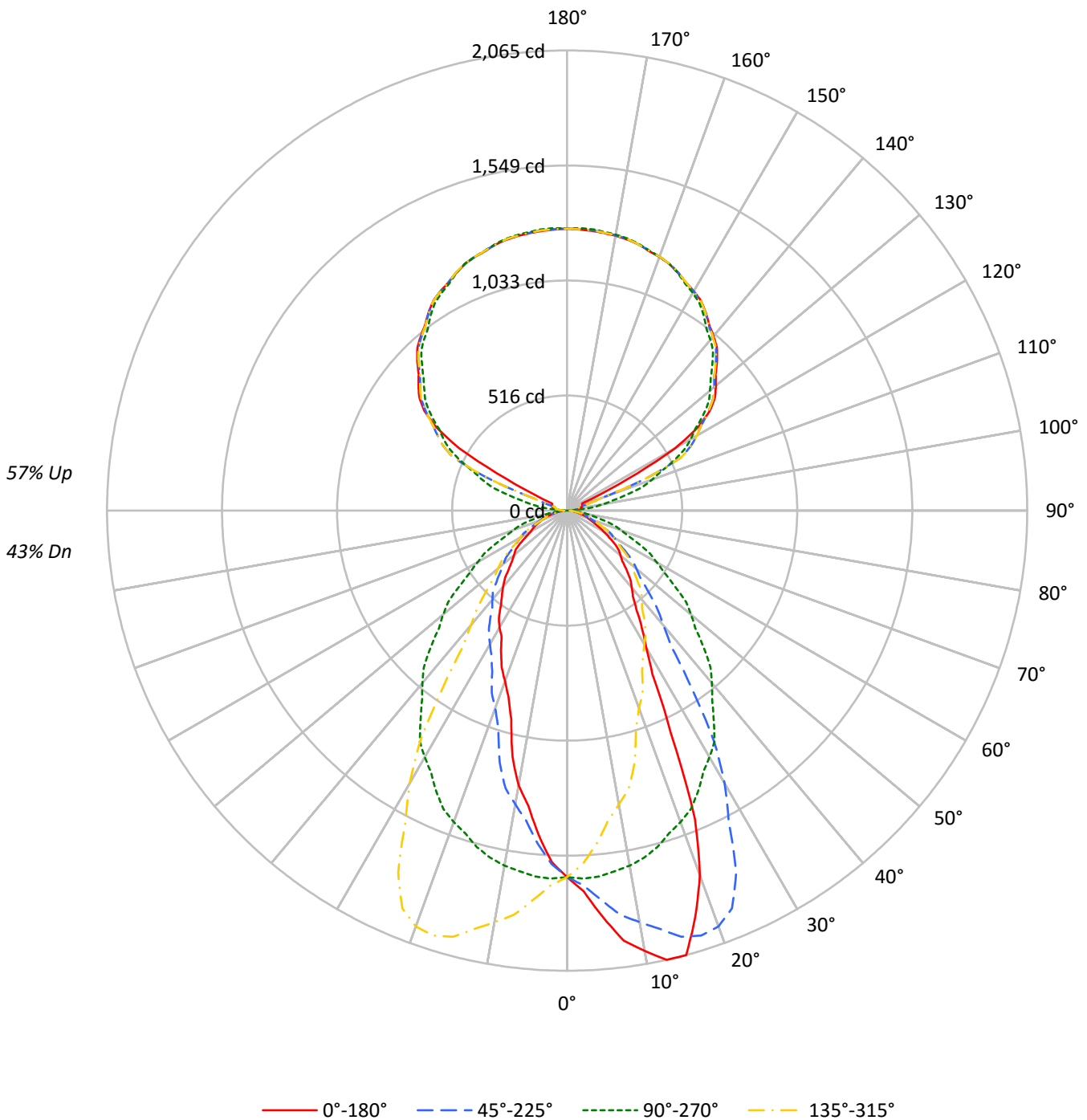
Lumens per Lamp: N/A  
Luminaire Lumens: 6551.5 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (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





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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	97	93	89	86	89	85	82	79	71	69	67	57	56	55	45	44	44	38
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38	33
3	82	73	66	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29
4	75	65	57	52	68	60	53	48	50	46	42	42	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	37	38	34	31	30	28	26	23
6	64	52	45	39	58	49	42	37	41	36	32	34	31	28	28	25	23	20
7	59	48	40	35	54	44	37	33	38	32	29	32	28	25	26	23	21	18
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	25	21	25	21	19	21	18	16	14

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

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	2.4
10°-20°	434.3	6.6
20°-30°	559.6	8.5
30°-40°	531.8	8.1
40°-50°	455.6	7.0
50°-60°	346.9	5.3
60°-70°	219.3	3.3
70°-80°	109.5	1.7
80°-90°	31.6	0.5
90°-100°	42.2	0.6
100°-110°	154.7	2.4
110°-120°	413.6	6.3
120°-130°	682.8	10.4
130°-140°	726.1	11.1
140°-150°	674.9	10.3
150°-160°	542.6	8.3
160°-170°	349.7	5.3
170°-180°	120.4	1.8
0°-30°	1149.8	17.5
0°-40°	1681.6	25.7
0°-60°	2484.1	37.9
0°-90°	2844.6	43.4
90°-120°	610.5	9.3
90°-150°	2694.3	41.1
90°-180°	3707.0	56.6
0°-180°	6551.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	23
90°	25	1	25	1	25	12
95°	39	60	39	60	39	37
105°	70	278	70	278	70	72
115°	75	526	75	526	75	188
125°	783	744	783	744	783	677
135°	951	921	951	921	951	733
145°	1085	1068	1085	1068	1085	678
155°	1177	1176	1177	1176	1177	543
165°	1237	1239	1237	1239	1237	349
175°	1260	1268	1260	1268	1260	120
180°	1265	1265	1265	1265	1265	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	12.2	12.7	12.6	12.5	12.4	12.2	12.1	12.3	11.6	11.9	11.1
90°	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3	19.3	18.3	16.7
92.5°	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3	21.8	21.3	20.4
95°	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7	36.7	35.7	34.3
97.5°	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4	48.6	47.8	44.5
100°	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4	53.8	52.2	48.7
102.5°	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9	55.8	53.6	48.6
105°	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3	58.0	55.8	48.7
107.5°	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6	75.9	78.2	144.7
110°	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5	139.8	160.1	219.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6	329.8	404.0	418.5
115°	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3	470.5	564.7	559.6
117.5°	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0	602.7	625.5	622.0
120°	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8	673.3	670.9	667.3
122.5°	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0	715.6	714.1	710.2
125°	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3	774.8	773.4	769.6
127.5°	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0	829.0	826.9	824.0
130°	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7	863.5	861.3	859.0
132.5°	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5	897.6	895.7	893.5
135°	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7	945.7	943.7	941.8
137.5°	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5	990.5	988.5	986.4
140°	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5	1019.6	1017.8	1015.5
142.5°	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2	1046.5	1044.9	1042.3
145°	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6	1084.2	1082.8	1079.3
147.5°	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2	1117.1	1116.1	1112.7
150°	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3	1137.1	1135.8	1132.6
152.5°	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6	1155.4	1154.2	1151.1
155°	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3	1180.1	1178.9	1176.5
157.5°	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1	1200.8	1199.4	1197.7
160°	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3	1213.1	1211.9	1210.7
162.5°	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5	1224.2	1222.8	1221.8
165°	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6	1236.0
167.5°	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9	1249.5	1248.1	1247.5
170°	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8	1255.3	1254.0	1253.5
172.5°	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2	1259.7	1258.4	1257.9
175°	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9	1264.6	1263.1	1262.7
177.5°	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4	1265.3	1264.2	1264.0
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	10.8	10.9	10.6	9.7	9.7	9.7	11.6	13.4	12.1	11.1	10.7
90°	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9	3.2	5.4	7.7
92.5°	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5	18.3	18.1	17.9
95°	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5	52.8	46.1	39.3
97.5°	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0	99.2	80.2	61.3
100°	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0	134.1	106.2	78.4
102.5°	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3	204.4	198.5	192.6
105°	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3	284.4	290.4	296.5
107.5°	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7	360.6	365.5	370.4
110°	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4	409.7	414.1	418.3





TEST NUMBER: P331729-935

CATALOG NUMBER: S122RDIP-S865D1080U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4	456.2	459.9	463.6
115°	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3	529.8	533.2	536.7
117.5°	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4	596.2	600.1	604.0
120°	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7	643.8	646.8	649.9
122.5°	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7	684.9	688.1	691.4
125°	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2	746.7	749.4	752.1
127.5°	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7	803.7	806.6	809.5
130°	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5	839.8	843.1	846.4
132.5°	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1	876.0	878.7	881.5
135°	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8	924.0	927.3	930.6
137.5°	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9	971.2	973.4	975.8
140°	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4	1002.0	1003.7	1005.3
142.5°	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7	1028.2	1029.7	1031.1
145°	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2	1067.9	1067.7	1067.6
147.5°	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2	1103.5	1102.7	1101.9
150°	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7	1126.2	1124.8	1123.3
152.5°	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4	1145.8	1144.2	1142.6
155°	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1	1174.3	1172.5	1170.6
157.5°	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7	1197.1	1195.6	1194.0
160°	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1210.7	1209.4	1208.2
162.5°	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6	1222.4	1221.1	1219.9
165°	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3	1238.0	1236.8	1235.6
167.5°	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0	1249.8	1248.5	1247.3
170°	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6	1256.4	1255.2	1254.0
172.5°	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0	1260.8	1259.6	1258.4
175°	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7	1266.3	1264.8	1263.4
177.5°	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6	1267.5	1266.3	1265.2
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



TEST NUMBER: P331729-935

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	10.7	10.6	10.0	10.3	10.7	10.5	10.8	10.5	10.7	10.8	10.6
90°	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3	21.4	22.4	23.1
92.5°	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3	22.8	23.3	23.8
95°	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7	38.7	39.8	40.2
97.5°	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4	50.2	51.1	51.6
100°	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4	57.1	58.7	59.7
102.5°	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9	60.0	62.1	63.5
105°	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3	62.5	64.7	66.3
107.5°	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6	71.3	69.1	68.4
110°	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5	99.2	78.8	69.1



TEST NUMBER: P331729-935

CATALOG NUMBER: S122RDIP-S865D1080U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6	181.4	107.2	70.4
115°	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3	282.2	188.0	133.6
117.5°	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0	557.2	534.4	498.9
120°	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8	678.2	680.7	668.1
122.5°	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0	718.5	720.0	718.0
125°	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3	777.7	779.1	780.2
127.5°	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0	833.1	835.2	836.3
130°	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7	868.0	870.2	871.2
132.5°	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5	901.5	903.4	904.2
135°	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7	949.8	951.7	952.6
137.5°	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5	994.5	996.4	997.1
140°	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5	1023.3	1025.1	1025.5
142.5°	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2	1049.9	1051.5	1051.9
145°	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6	1087.0	1088.5	1088.6
147.5°	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2	1119.3	1120.3	1120.4
150°	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3	1139.5	1140.7	1140.8
152.5°	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6	1157.9	1159.1	1159.0
155°	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3	1182.6	1183.8	1183.5
157.5°	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1	1203.5	1204.9	1204.8
160°	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3	1215.5	1216.7	1216.6
162.5°	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5	1226.9	1228.4	1228.1
165°	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3
167.5°	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9	1252.3	1253.8	1253.5
170°	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8	1258.2	1259.6	1259.4
172.5°	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2	1262.6	1264.0	1263.9
175°	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9	1267.4	1268.8	1268.5
177.5°	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4	1267.6	1268.8	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	10.7	10.2	10.8	10.4	10.8	10.2	10.7	10.6	10.8	10.7	10.5
90°	23.5	23.9	24.3	24.7	24.3	23.9	23.5	23.1	22.4	21.4	20.3
92.5°	24.0	24.2	24.5	24.7	24.5	24.2	24.0	23.8	23.3	22.8	22.3
95°	40.0	39.8	39.5	39.3	39.5	39.8	40.0	40.2	39.8	38.7	37.7
97.5°	51.8	52.1	52.3	52.5	52.3	52.1	51.8	51.6	51.1	50.2	49.4
100°	60.1	60.5	61.0	61.3	61.0	60.5	60.1	59.7	58.7	57.1	55.4
102.5°	64.0	64.6	65.2	65.7	65.2	64.6	64.0	63.5	62.1	60.0	57.9
105°	67.2	67.9	68.7	69.6	68.7	67.9	67.2	66.3	64.7	62.5	60.3
107.5°	69.1	69.9	70.8	71.5	70.8	69.9	69.1	68.4	69.1	71.3	73.6
110°	69.8	70.7	71.5	72.3	71.5	70.7	69.8	69.1	78.8	99.2	119.5



TEST NUMBER: P331729-935

CATALOG NUMBER: S122RDIP-S865D1080U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	71.1	71.7	72.4	73.0	72.4	71.7	71.1	70.4	107.2	181.4	255.6
115°	119.0	104.4	89.7	75.1	89.7	104.4	119.0	133.6	188.0	282.2	376.3
117.5°	450.8	402.7	354.6	306.4	354.6	402.7	450.8	498.9	534.4	557.2	580.0
120°	640.7	613.2	585.7	558.4	585.7	613.2	640.7	668.1	680.7	678.2	675.8
122.5°	712.7	707.4	702.1	696.7	702.1	707.4	712.7	718.0	720.0	718.5	717.0
125°	780.8	781.4	782.0	782.6	782.0	781.4	780.8	780.2	779.1	777.7	776.3
127.5°	836.4	836.5	836.6	836.7	836.6	836.5	836.4	836.3	835.2	833.1	831.0
130°	871.1	870.8	870.6	870.5	870.6	870.8	871.1	871.2	870.2	868.0	865.7
132.5°	904.0	903.8	903.6	903.4	903.6	903.8	904.0	904.2	903.4	901.5	899.5
135°	952.2	951.7	951.4	951.0	951.4	951.7	952.2	952.6	951.7	949.8	947.7
137.5°	996.4	995.7	995.1	994.4	995.1	995.7	996.4	997.1	996.4	994.5	992.5
140°	1024.5	1023.5	1022.4	1021.5	1022.4	1023.5	1024.5	1025.5	1025.1	1023.3	1021.5
142.5°	1050.9	1049.8	1048.9	1047.8	1048.9	1049.8	1050.9	1051.9	1051.5	1049.9	1048.2
145°	1087.7	1086.7	1085.6	1084.6	1085.6	1086.7	1087.7	1088.6	1088.5	1087.0	1085.6
147.5°	1119.6	1118.7	1117.8	1117.0	1117.8	1118.7	1119.6	1120.4	1120.3	1119.3	1118.2
150°	1139.8	1138.8	1137.8	1136.8	1137.8	1138.8	1139.8	1140.8	1140.7	1139.5	1138.3
152.5°	1157.6	1156.3	1154.9	1153.7	1154.9	1156.3	1157.6	1159.0	1159.1	1157.9	1156.6
155°	1181.9	1180.3	1178.7	1177.1	1178.7	1180.3	1181.9	1183.5	1183.8	1182.6	1181.3
157.5°	1203.2	1201.6	1200.1	1198.4	1200.1	1201.6	1203.2	1204.8	1204.9	1203.5	1202.1
160°	1215.2	1213.8	1212.4	1210.9	1212.4	1213.8	1215.2	1216.6	1216.7	1215.5	1214.3
162.5°	1226.4	1224.7	1222.9	1221.2	1222.9	1224.7	1226.4	1228.1	1228.4	1226.9	1225.5
165°	1240.8	1239.4	1237.9	1236.6	1237.9	1239.4	1240.8	1242.3	1242.3	1240.8	1239.4
167.5°	1251.7	1249.9	1248.1	1246.2	1248.1	1249.9	1251.7	1253.5	1253.8	1252.3	1250.9
170°	1257.6	1255.8	1254.0	1252.1	1254.0	1255.8	1257.6	1259.4	1259.6	1258.2	1256.8
172.5°	1262.0	1260.2	1258.4	1256.5	1258.4	1260.2	1262.0	1263.9	1264.0	1262.6	1261.2
175°	1266.4	1264.4	1262.4	1260.3	1262.4	1264.4	1266.4	1268.5	1268.8	1267.4	1265.9
177.5°	1267.1	1265.7	1264.2	1262.7	1264.2	1265.7	1267.1	1268.6	1268.8	1267.6	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



TEST NUMBER: P331729-935

CATALOG NUMBER: S122RDIP-S865D1080U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	10.8	10.5	10.7	10.3	10.0	10.6	10.7	10.7	11.1	12.1	13.4
90°	19.3	18.3	16.7	15.1	13.4	11.8	9.9	7.7	5.4	3.2	0.9
92.5°	21.8	21.3	20.4	19.6	18.8	18.0	17.7	17.9	18.1	18.3	18.5
95°	36.7	35.7	34.3	32.9	31.4	30.0	32.6	39.3	46.1	52.8	59.5
97.5°	48.6	47.8	44.5	41.2	37.9	34.6	42.4	61.3	80.2	99.2	118.0
100°	53.8	52.2	48.7	45.3	41.8	38.3	50.5	78.4	106.2	134.1	162.0
102.5°	55.8	53.6	82.6	111.5	140.4	169.4	186.8	192.6	198.5	204.4	210.3
105°	58.0	55.8	111.3	166.9	222.4	277.9	302.6	296.5	290.4	284.4	278.3
107.5°	75.9	78.2	144.7	211.4	277.9	344.6	375.4	370.4	365.5	360.6	355.7
110°	139.8	160.1	219.0	277.8	336.5	395.3	422.6	418.3	414.1	409.7	405.4



TEST NUMBER: P331729-935

CATALOG NUMBER: S122RDIP-S865D1080U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.8	404.0	418.5	433.1	447.5	462.1	467.4	463.6	459.9	456.2	452.4
115°	470.5	564.7	559.6	554.6	549.5	544.4	540.1	536.7	533.2	529.8	526.3
117.5°	602.7	625.5	622.0	618.5	615.0	611.5	607.9	604.0	600.1	596.2	592.4
120°	673.3	670.9	667.3	663.6	660.0	656.3	652.9	649.9	646.8	643.8	640.7
122.5°	715.6	714.1	710.2	706.1	702.1	698.2	694.6	691.4	688.1	684.9	681.7
125°	774.8	773.4	769.6	765.7	761.8	757.9	754.7	752.1	749.4	746.7	744.2
127.5°	829.0	826.9	824.0	821.0	818.2	815.3	812.4	809.5	806.6	803.7	800.7
130°	863.5	861.3	859.0	856.8	854.5	852.3	849.5	846.4	843.1	839.8	836.5
132.5°	897.6	895.7	893.5	891.2	889.0	886.7	884.2	881.5	878.7	876.0	873.1
135°	945.7	943.7	941.8	940.0	938.1	936.3	933.8	930.6	927.3	924.0	920.8
137.5°	990.5	988.5	986.4	984.4	982.3	980.2	978.0	975.8	973.4	971.2	968.9
140°	1019.6	1017.8	1015.5	1013.3	1011.1	1008.8	1006.9	1005.3	1003.7	1002.0	1000.4
142.5°	1046.5	1044.9	1042.3	1039.7	1037.2	1034.7	1032.6	1031.1	1029.7	1028.2	1026.7
145°	1084.2	1082.8	1079.3	1075.8	1072.4	1068.9	1067.3	1067.6	1067.7	1067.9	1068.2
147.5°	1117.1	1116.1	1112.7	1109.2	1105.9	1102.4	1101.1	1101.9	1102.7	1103.5	1104.2
150°	1137.1	1135.8	1132.6	1129.4	1126.1	1122.8	1122.0	1123.3	1124.8	1126.2	1127.7
152.5°	1155.4	1154.2	1151.1	1148.0	1144.9	1141.8	1141.1	1142.6	1144.2	1145.8	1147.4
155°	1180.1	1178.9	1176.5	1174.0	1171.6	1169.2	1168.8	1170.6	1172.5	1174.3	1176.1
157.5°	1200.8	1199.4	1197.7	1195.9	1194.3	1192.6	1192.5	1194.0	1195.6	1197.1	1198.7
160°	1213.1	1211.9	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9
162.5°	1224.2	1222.8	1221.8	1220.7	1219.6	1218.6	1218.7	1219.9	1221.1	1222.4	1223.6
165°	1237.9	1236.6	1236.0	1235.4	1234.7	1234.1	1234.4	1235.6	1236.8	1238.0	1239.3
167.5°	1249.5	1248.1	1247.5	1246.9	1246.4	1245.8	1246.1	1247.3	1248.5	1249.8	1251.0
170°	1255.3	1254.0	1253.5	1253.1	1252.8	1252.3	1252.8	1254.0	1255.2	1256.4	1257.6
172.5°	1259.7	1258.4	1257.9	1257.5	1257.1	1256.7	1257.1	1258.4	1259.6	1260.8	1262.0
175°	1264.6	1263.1	1262.7	1262.3	1261.9	1261.5	1262.0	1263.4	1264.8	1266.3	1267.7
177.5°	1265.3	1264.2	1264.0	1263.9	1263.7	1263.5	1264.0	1265.2	1266.3	1267.5	1268.6
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



TEST NUMBER: P331729-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.6	9.7	9.7	9.7	10.6	10.9	10.8	11.1	11.9	11.6	12.3
90°	3.2	5.4	7.7	9.9	11.8	13.4	15.1	16.7	18.3	19.3	20.3
92.5°	18.3	18.1	17.9	17.7	18.0	18.8	19.6	20.4	21.3	21.8	22.3
95°	52.8	46.1	39.3	32.6	30.0	31.4	32.9	34.3	35.7	36.7	37.7
97.5°	99.2	80.2	61.3	42.4	34.6	37.9	41.2	44.5	47.8	48.6	49.4
100°	134.1	106.2	78.4	50.5	38.3	41.8	45.3	48.7	52.2	53.8	55.4
102.5°	204.4	198.5	192.6	186.8	169.4	140.4	111.5	82.6	53.6	55.8	57.9
105°	284.4	290.4	296.5	302.6	277.9	222.4	166.9	111.3	55.8	58.0	60.3
107.5°	360.6	365.5	370.4	375.4	344.6	277.9	211.4	144.7	78.2	75.9	73.6
110°	409.7	414.1	418.3	422.6	395.3	336.5	277.8	219.0	160.1	139.8	119.5





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	456.2	459.9	463.6	467.4	462.1	447.5	433.1	418.5	404.0	329.8	255.6
115°	529.8	533.2	536.7	540.1	544.4	549.5	554.6	559.6	564.7	470.5	376.3
117.5°	596.2	600.1	604.0	607.9	611.5	615.0	618.5	622.0	625.5	602.7	580.0
120°	643.8	646.8	649.9	652.9	656.3	660.0	663.6	667.3	670.9	673.3	675.8
122.5°	684.9	688.1	691.4	694.6	698.2	702.1	706.1	710.2	714.1	715.6	717.0
125°	746.7	749.4	752.1	754.7	757.9	761.8	765.7	769.6	773.4	774.8	776.3
127.5°	803.7	806.6	809.5	812.4	815.3	818.2	821.0	824.0	826.9	829.0	831.0
130°	839.8	843.1	846.4	849.5	852.3	854.5	856.8	859.0	861.3	863.5	865.7
132.5°	876.0	878.7	881.5	884.2	886.7	889.0	891.2	893.5	895.7	897.6	899.5
135°	924.0	927.3	930.6	933.8	936.3	938.1	940.0	941.8	943.7	945.7	947.7
137.5°	971.2	973.4	975.8	978.0	980.2	982.3	984.4	986.4	988.5	990.5	992.5
140°	1002.0	1003.7	1005.3	1006.9	1008.8	1011.1	1013.3	1015.5	1017.8	1019.6	1021.5
142.5°	1028.2	1029.7	1031.1	1032.6	1034.7	1037.2	1039.7	1042.3	1044.9	1046.5	1048.2
145°	1067.9	1067.7	1067.6	1067.3	1068.9	1072.4	1075.8	1079.3	1082.8	1084.2	1085.6
147.5°	1103.5	1102.7	1101.9	1101.1	1102.4	1105.9	1109.2	1112.7	1116.1	1117.1	1118.2
150°	1126.2	1124.8	1123.3	1122.0	1122.8	1126.1	1129.4	1132.6	1135.8	1137.1	1138.3
152.5°	1145.8	1144.2	1142.6	1141.1	1141.8	1144.9	1148.0	1151.1	1154.2	1155.4	1156.6
155°	1174.3	1172.5	1170.6	1168.8	1169.2	1171.6	1174.0	1176.5	1178.9	1180.1	1181.3
157.5°	1197.1	1195.6	1194.0	1192.5	1192.6	1194.3	1195.9	1197.7	1199.4	1200.8	1202.1
160°	1210.7	1209.4	1208.2	1206.9	1206.9	1208.2	1209.4	1210.7	1211.9	1213.1	1214.3
162.5°	1222.4	1221.1	1219.9	1218.7	1218.6	1219.6	1220.7	1221.8	1222.8	1224.2	1225.5
165°	1238.0	1236.8	1235.6	1234.4	1234.1	1234.7	1235.4	1236.0	1236.6	1237.9	1239.4
167.5°	1249.8	1248.5	1247.3	1246.1	1245.8	1246.4	1246.9	1247.5	1248.1	1249.5	1250.9
170°	1256.4	1255.2	1254.0	1252.8	1252.3	1252.8	1253.1	1253.5	1254.0	1255.3	1256.8
172.5°	1260.8	1259.6	1258.4	1257.1	1256.7	1257.1	1257.5	1257.9	1258.4	1259.7	1261.2
175°	1266.3	1264.8	1263.4	1262.0	1261.5	1261.9	1262.3	1262.7	1263.1	1264.6	1265.9
177.5°	1267.5	1266.3	1265.2	1264.0	1263.5	1263.7	1263.9	1264.0	1264.2	1265.3	1266.4
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	12.1	12.2	12.4	12.5	12.6	12.7	12.2
90°	21.4	22.4	23.1	23.5	23.9	24.3	24.7
92.5°	22.8	23.3	23.8	24.0	24.2	24.5	24.7
95°	38.7	39.8	40.2	40.0	39.8	39.5	39.3
97.5°	50.2	51.1	51.6	51.8	52.1	52.3	52.5
100°	57.1	58.7	59.7	60.1	60.5	61.0	61.3
102.5°	60.0	62.1	63.5	64.0	64.6	65.2	65.7
105°	62.5	64.7	66.3	67.2	67.9	68.7	69.6
107.5°	71.3	69.1	68.4	69.1	69.9	70.8	71.5
110°	99.2	78.8	69.1	69.8	70.7	71.5	72.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.4	107.2	70.4	71.1	71.7	72.4	73.0
115°	282.2	188.0	133.6	119.0	104.4	89.7	75.1
117.5°	557.2	534.4	498.9	450.8	402.7	354.6	306.4
120°	678.2	680.7	668.1	640.7	613.2	585.7	558.4
122.5°	718.5	720.0	718.0	712.7	707.4	702.1	696.7
125°	777.7	779.1	780.2	780.8	781.4	782.0	782.6
127.5°	833.1	835.2	836.3	836.4	836.5	836.6	836.7
130°	868.0	870.2	871.2	871.1	870.8	870.6	870.5
132.5°	901.5	903.4	904.2	904.0	903.8	903.6	903.4
135°	949.8	951.7	952.6	952.2	951.7	951.4	951.0
137.5°	994.5	996.4	997.1	996.4	995.7	995.1	994.4
140°	1023.3	1025.1	1025.5	1024.5	1023.5	1022.4	1021.5
142.5°	1049.9	1051.5	1051.9	1050.9	1049.8	1048.9	1047.8
145°	1087.0	1088.5	1088.6	1087.7	1086.7	1085.6	1084.6
147.5°	1119.3	1120.3	1120.4	1119.6	1118.7	1117.8	1117.0
150°	1139.5	1140.7	1140.8	1139.8	1138.8	1137.8	1136.8
152.5°	1157.9	1159.1	1159.0	1157.6	1156.3	1154.9	1153.7
155°	1182.6	1183.8	1183.5	1181.9	1180.3	1178.7	1177.1
157.5°	1203.5	1204.9	1204.8	1203.2	1201.6	1200.1	1198.4
160°	1215.5	1216.7	1216.6	1215.2	1213.8	1212.4	1210.9
162.5°	1226.9	1228.4	1228.1	1226.4	1224.7	1222.9	1221.2
165°	1240.8	1242.3	1242.3	1240.8	1239.4	1237.9	1236.6
167.5°	1252.3	1253.8	1253.5	1251.7	1249.9	1248.1	1246.2
170°	1258.2	1259.6	1259.4	1257.6	1255.8	1254.0	1252.1
172.5°	1262.6	1264.0	1263.9	1262.0	1260.2	1258.4	1256.5
175°	1267.4	1268.8	1268.5	1266.4	1264.4	1262.4	1260.3
177.5°	1267.6	1268.8	1268.6	1267.1	1265.7	1264.2	1262.7
180°	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9	1264.9

(END OF REPORT)