

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: P331411-930

Luminaire Tested: **S122DIP-S865D1080U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331411-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S865D1080U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6618.6 lumens
Efficiency: N/A
Efficacy: 101.2 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

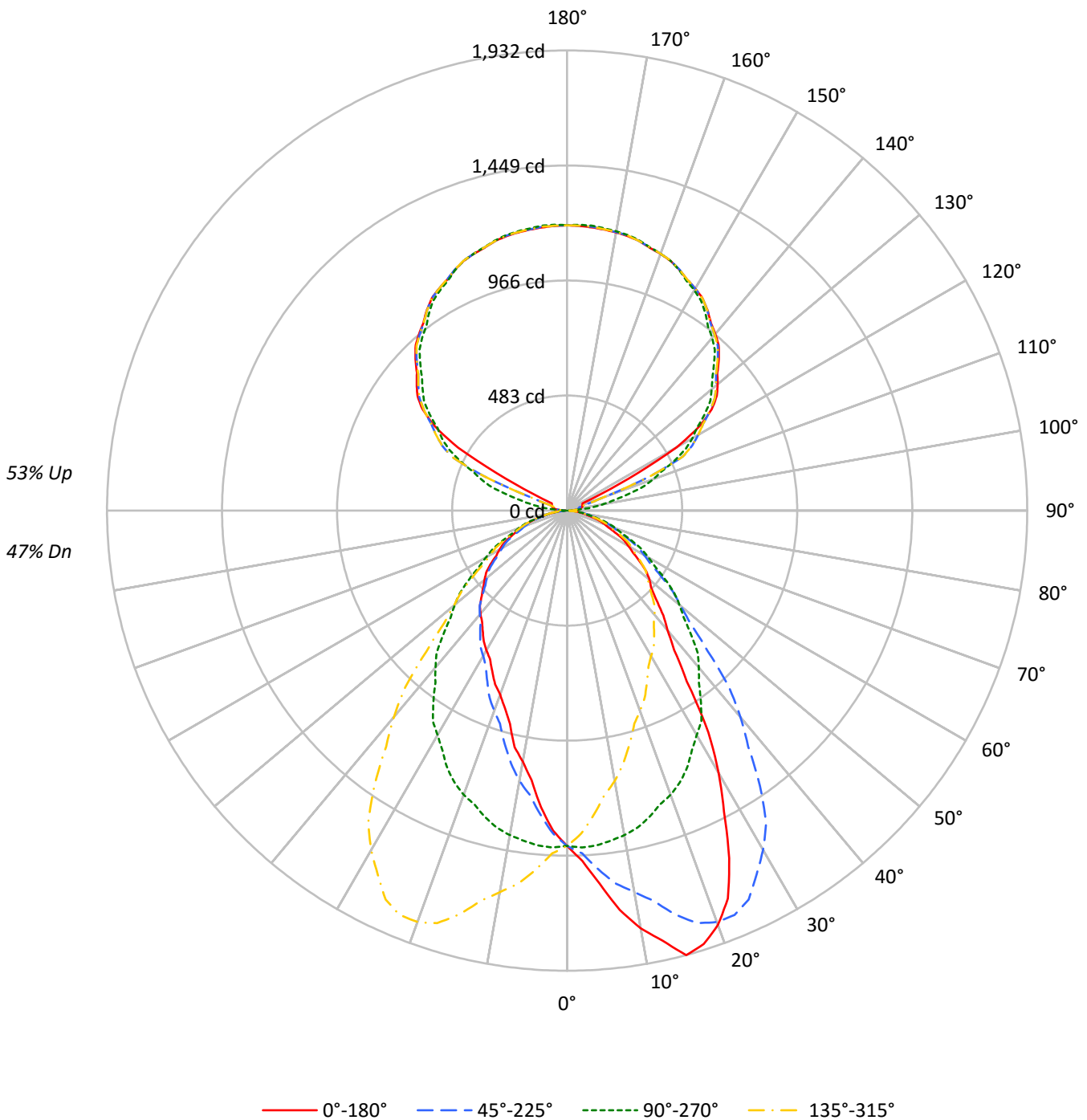
Input Watts (W): 65.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331411-930

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Luminous Intensity Polar Plot





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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47																				
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	40																				
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	39	35																				
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30																				
4	75	64	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26																				
5	69	58	50	44	63	53	47	41	46	40	36	38	34	31	31	28	26	23																				
6	64	52	44	38	58	48	41	36	41	36	32	35	31	27	28	26	23	20																				
7	59	47	39	34	54	44	37	32	37	32	28	32	28	24	26	23	21	18																				
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16																				
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15																				
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16	14																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22727	22727	22727	22727
5°	25480	22875	20272	22875
10°	29198	22689	17544	22689
15°	32301	22272	15499	22272
20°	31809	21825	14129	21825
25°	28682	21232	13261	21232
30°	23702	20282	12629	20282
35°	17274	19291	12177	19291
40°	13797	18120	11927	18120
45°	12056	16762	11586	16762
50°	11333	15450	11359	15450
55°	10446	14117	11054	14117
60°	9571	12700	10585	12700
65°	8722	11427	10128	11427
70°	7917	10192	9451	10192
75°	7018	8808	8372	8808
80°	6034	7290	6741	7290
85°	5409	5409	4001	5409



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.0
10°-20°	389.7	5.9
20°-30°	565.6	8.5
30°-40°	596.9	9.0
40°-50°	528.5	8.0
50°-60°	421.7	6.4
60°-70°	286.7	4.3
70°-80°	147.0	2.2
80°-90°	38.4	0.6
90°-100°	40.0	0.6
100°-110°	146.5	2.2
110°-120°	391.7	5.9
120°-130°	646.5	9.8
130°-140°	687.6	10.4
140°-150°	639.1	9.7
150°-160°	513.8	7.8
160°-170°	331.1	5.0
170°-180°	114.0	1.7
0°-30°	1089.4	16.5
0°-40°	1686.3	25.5
0°-60°	2636.5	39.8
0°-90°	3108.5	47.0
90°-120°	578.1	8.7
90°-150°	2551.3	38.5
90°-180°	3510.0	53.0
0°-180°	6618.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1572	1411	1251	1411	1572	157
15°	1932	1332	927	1332	1932	533
25°	1610	1192	744	1192	1610	728
35°	876	979	618	979	876	570
45°	528	734	507	734	528	415
55°	371	502	393	502	371	333
65°	228	299	265	299	228	227
75°	112	141	134	141	112	120
85°	29	29	22	29	29	33
90°	23	1	23	1	23	12
95°	37	56	37	56	37	35
105°	66	264	66	264	66	68
115°	71	498	71	498	71	178
125°	741	705	741	705	741	641
135°	900	872	900	872	900	694
145°	1027	1012	1027	1012	1027	642
155°	1115	1114	1115	1114	1115	514
165°	1171	1174	1171	1174	1171	331
175°	1193	1200	1193	1200	1193	114
180°	1198	1198	1198	1198	1198	



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1472.6	1473.0	1473.9	1467.0	1466.1	1466.1	1460.0	1454.8	1448.8	1440.6	1441.4
5°	1572.1	1578.1	1580.2	1573.8	1564.0	1562.9	1553.7	1538.6	1524.5	1513.1	1505.0
7.5°	1690.9	1693.3	1688.0	1679.4	1672.2	1659.2	1642.1	1625.4	1601.9	1580.4	1564.3
10°	1780.9	1784.2	1775.0	1762.5	1752.2	1737.1	1712.2	1686.8	1656.0	1626.2	1602.4
12.5°	1849.3	1857.3	1845.5	1843.9	1826.3	1805.5	1775.9	1763.0	1719.6	1678.1	1652.6
15°	1932.4	1931.9	1933.0	1922.6	1909.7	1906.4	1875.1	1841.0	1779.9	1755.5	1713.4
17.5°	1908.4	1916.6	1920.4	1920.3	1919.9	1917.9	1907.9	1886.4	1855.7	1816.2	1767.5
20°	1851.3	1862.1	1863.7	1876.2	1883.2	1892.4	1896.1	1890.2	1871.3	1838.3	1796.1
22.5°	1763.0	1766.0	1771.1	1790.5	1805.7	1828.8	1840.8	1860.8	1853.5	1837.4	1802.1
25°	1610.0	1604.6	1623.5	1633.2	1668.4	1705.2	1731.7	1760.9	1786.9	1802.5	1792.3
27.5°	1426.3	1418.1	1446.5	1472.3	1500.9	1540.8	1582.1	1630.8	1671.4	1722.2	1739.6
30°	1271.3	1276.2	1303.3	1330.8	1374.1	1430.4	1476.9	1530.5	1588.4	1645.1	1684.7
32.5°	1104.2	1123.0	1140.1	1182.3	1220.5	1283.2	1351.4	1418.4	1490.5	1555.1	1616.2
35°	876.4	898.1	921.9	952.7	1006.2	1068.4	1135.0	1225.3	1323.8	1412.0	1484.5
37.5°	737.7	734.3	747.9	770.1	813.5	863.7	940.4	1029.6	1145.5	1249.1	1351.4
40°	654.6	652.4	662.2	682.7	715.8	752.5	819.6	898.1	1005.7	1132.3	1254.0
42.5°	597.5	598.8	604.1	618.6	641.3	671.6	721.8	788.6	887.1	1006.3	1137.2
45°	528.0	531.8	537.8	544.8	557.7	582.6	610.7	658.4	736.3	835.8	964.6
47.5°	478.0	478.1	484.2	490.3	498.1	512.1	535.0	564.9	619.9	700.9	811.6
50°	451.2	447.4	451.8	456.6	464.7	474.4	489.6	517.7	554.5	620.0	712.5
52.5°	418.3	418.4	422.3	424.1	431.4	441.2	454.9	474.4	507.8	559.0	635.0
55°	371.1	373.8	376.0	379.2	385.7	392.7	403.6	416.5	442.5	480.9	537.2
57.5°	326.8	327.6	329.8	336.0	340.1	346.6	356.9	368.6	385.5	413.9	456.2
60°	296.4	296.4	300.8	303.5	308.9	315.4	323.5	334.8	350.0	373.2	407.4
62.5°	268.8	268.3	270.0	274.5	278.6	284.7	292.8	302.4	316.7	337.4	365.4
65°	228.3	227.2	230.5	231.5	235.9	241.8	248.3	258.6	269.9	285.1	310.0
67.5°	189.3	190.6	192.4	194.4	196.8	203.1	207.4	214.7	224.3	236.8	253.7
70°	167.7	167.7	167.7	169.3	172.6	175.9	180.2	186.1	195.3	206.1	221.3
72.5°	143.5	145.2	146.9	145.9	150.1	152.1	157.2	160.5	169.3	176.3	189.6
75°	112.5	112.5	112.5	115.2	116.8	118.5	121.7	125.0	129.3	137.9	145.0
77.5°	84.0	83.7	84.3	85.0	86.7	88.6	89.6	92.5	96.5	100.5	106.5
80°	64.9	66.0	66.5	67.6	67.6	68.7	69.2	73.1	75.7	78.4	82.3
82.5°	50.2	50.4	50.5	50.7	51.2	51.9	53.2	54.5	55.4	57.6	60.6
85°	29.2	28.7	28.7	29.8	29.2	29.2	30.3	31.4	31.4	31.9	33.5
87.5°	15.9	15.8	16.2	15.7	15.7	15.9	15.7	15.1	15.3	15.6	15.7
90°	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2	18.3	17.4	15.8
92.5°	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1	20.6	20.1	19.3
95°	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7	34.7	33.8	32.4
97.5°	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8	46.0	45.2	42.2
100°	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5	51.0	49.4	46.1
102.5°	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8	52.8	50.8	48.2
105°	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1	55.0	52.8	50.4
107.5°	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7	71.8	74.0	78.1
110°	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2	132.4	151.6	207.3



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1	312.3	382.5	396.3
115°	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4	445.6	534.8	529.9
117.5°	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2	570.7	592.3	589.0
120°	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9	637.6	635.3	631.9
122.5°	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0	677.6	676.2	672.5
125°	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1	733.7	732.4	728.7
127.5°	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9	785.0	783.0	780.2
130°	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8	817.7	815.5	813.4
132.5°	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7	849.9	848.2	846.0
135°	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4	895.5	893.6	891.9
137.5°	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8	937.9	936.0	934.1
140°	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3	965.5	963.8	961.6
142.5°	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5	991.0	989.4	987.0
145°	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0	1026.6	1025.3	1022.1
147.5°	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8	1057.9	1056.9	1053.6
150°	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9	1076.8	1075.5	1072.5
152.5°	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2	1094.1	1092.9	1090.0
155°	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6	1117.4	1116.3	1114.0
157.5°	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3	1137.0	1135.7	1134.1
160°	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8	1148.7	1147.5	1146.4
162.5°	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5	1159.2	1157.9	1156.9
165°	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9	1170.4
167.5°	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5	1183.2	1181.9	1181.3
170°	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1	1188.7	1187.4	1187.0
172.5°	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3	1192.9	1191.6	1191.2
175°	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7	1197.4	1196.0	1195.6
177.5°	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2	1198.2	1197.1	1196.9
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1444.5	1441.0	1438.8	1431.0	1424.1	1417.2	1415.0	1415.8	1406.4	1397.3	1393.3
5°	1500.7	1489.9	1479.6	1465.0	1447.7	1428.7	1419.0	1411.4	1392.5	1372.0	1360.1
7.5°	1551.1	1535.6	1515.9	1488.4	1463.1	1433.4	1414.5	1397.7	1370.0	1341.0	1323.2
10°	1581.8	1560.7	1535.3	1501.8	1471.0	1434.7	1409.2	1383.9	1351.4	1316.8	1295.1
12.5°	1608.3	1579.8	1554.8	1511.7	1475.3	1430.0	1399.8	1363.9	1329.8	1288.7	1267.5
15°	1671.1	1618.6	1571.0	1522.3	1477.4	1414.1	1380.6	1332.4	1287.5	1236.7	1212.4
17.5°	1719.7	1660.8	1585.8	1523.9	1471.5	1401.4	1352.2	1294.5	1241.4	1183.2	1150.1
20°	1747.4	1679.8	1599.1	1525.6	1462.8	1382.7	1329.2	1270.2	1208.0	1142.6	1106.9
22.5°	1763.8	1692.7	1613.0	1519.1	1445.5	1367.6	1300.2	1235.6	1172.6	1101.9	1064.5
25°	1769.0	1704.1	1619.8	1513.7	1423.9	1335.7	1254.6	1191.8	1115.5	1049.5	994.9
27.5°	1743.3	1696.7	1615.6	1503.5	1398.9	1295.8	1205.3	1134.2	1053.8	982.1	927.2
30°	1711.7	1684.7	1605.7	1493.1	1379.0	1268.1	1168.6	1087.9	1007.9	935.4	879.1
32.5°	1662.8	1656.9	1587.5	1478.4	1357.8	1233.1	1130.0	1048.6	959.9	888.6	834.9
35°	1566.7	1592.7	1548.8	1445.5	1317.8	1183.2	1071.7	978.7	886.7	818.5	768.2
37.5°	1437.9	1502.4	1490.9	1397.3	1264.0	1128.9	1005.8	908.6	820.9	752.1	702.7
40°	1349.2	1431.4	1443.3	1360.6	1225.9	1086.9	956.5	859.7	774.1	711.4	661.6
42.5°	1254.0	1350.1	1382.7	1316.5	1184.3	1042.7	912.3	812.0	727.4	666.4	622.2
45°	1094.5	1221.6	1280.5	1242.7	1115.0	970.0	835.8	734.1	657.3	600.0	565.9
47.5°	945.2	1084.1	1163.4	1150.1	1037.8	894.2	761.6	664.0	589.2	543.5	513.0
50°	839.6	982.4	1078.2	1082.6	982.4	840.2	707.1	615.1	546.4	503.7	478.7
52.5°	747.9	884.2	988.6	1011.5	920.6	783.9	658.2	566.6	506.1	466.8	444.6
55°	628.1	743.3	859.1	901.3	828.3	698.4	582.1	501.5	444.7	417.7	398.2
57.5°	522.2	618.2	725.1	771.8	726.8	615.6	506.5	436.6	390.4	366.8	351.9
60°	466.4	542.1	637.3	693.0	654.0	555.1	459.8	393.3	355.5	334.4	320.2
62.5°	414.4	481.5	562.0	612.9	591.7	498.4	413.1	354.3	321.6	301.9	291.7
65°	341.9	394.9	457.1	504.2	490.2	419.2	349.5	299.1	273.2	257.5	249.4
67.5°	281.5	319.8	363.0	404.2	392.9	342.7	286.6	247.4	228.1	214.6	209.7
70°	243.4	272.6	311.0	344.1	334.8	293.8	249.4	215.9	199.1	187.8	182.9
72.5°	207.1	231.1	260.4	287.4	281.2	247.0	210.0	184.7	171.8	161.3	157.4
75°	156.4	174.7	192.6	210.4	208.8	182.3	160.7	141.2	130.9	122.8	121.2
77.5°	115.4	125.7	137.9	148.5	145.5	130.4	113.4	102.2	94.7	89.3	88.4
80°	88.2	94.2	102.8	110.4	106.6	100.1	86.6	78.4	73.1	67.6	65.5
82.5°	63.9	69.9	75.1	79.2	76.3	70.2	61.9	56.3	53.2	49.4	48.6
85°	33.5	36.8	39.0	40.0	39.0	35.1	31.4	29.2	26.5	24.9	24.4
87.5°	15.8	15.5	15.2	15.7	14.0	13.5	11.4	9.7	9.7	9.7	9.2
90°	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5	17.3	17.1	17.0
95°	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3	50.0	43.6	37.3
97.5°	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8	93.9	76.0	58.0
100°	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4	127.0	100.6	74.3
102.5°	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2	193.6	188.0	182.4
105°	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5	269.3	275.0	280.8
107.5°	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8	341.4	346.1	350.7
110°	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9	388.0	392.1	396.1



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4	431.9	435.5	439.0
115°	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4	501.7	504.9	508.2
117.5°	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9	564.6	568.3	571.9
120°	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7	609.6	612.5	615.4
122.5°	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6	648.6	651.6	654.7
125°	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7	707.1	709.6	712.2
127.5°	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2	761.0	763.8	766.5
130°	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1	795.2	798.3	801.4
132.5°	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8	829.5	832.1	834.7
135°	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9	875.0	878.1	881.2
137.5°	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5	919.7	921.8	924.0
140°	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3	948.8	950.4	951.9
142.5°	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2	973.6	975.0	976.4
145°	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5	1011.2	1011.1	1010.9
147.5°	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6	1044.9	1044.2	1043.4
150°	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8	1066.4	1065.1	1063.7
152.5°	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5	1085.0	1083.5	1082.0
155°	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7	1112.0	1110.3	1108.5
157.5°	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1	1133.6	1132.1	1130.7
160°	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1146.4	1145.2	1144.0
162.5°	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6	1157.5	1156.3	1155.1
165°	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5	1172.3	1171.2	1170.0
167.5°	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6	1183.5	1182.3	1181.1
170°	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8	1189.7	1188.5	1187.4
172.5°	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0	1193.8	1192.7	1191.6
175°	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4	1199.1	1197.7	1196.4
177.5°	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3	1200.2	1199.1	1198.0
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1389.0	1386.4	1377.4	1372.6	1364.8	1357.5	1352.7	1354.9	1356.6	1355.7	1354.5
5°	1349.2	1339.0	1323.2	1309.7	1300.0	1282.1	1274.6	1270.8	1267.5	1263.7	1260.0
7.5°	1301.9	1285.6	1263.1	1243.8	1225.6	1203.5	1190.8	1183.2	1175.5	1166.9	1159.4
10°	1268.1	1245.4	1221.6	1194.5	1172.9	1152.8	1135.0	1123.1	1112.3	1102.0	1094.5
12.5°	1232.6	1206.4	1177.0	1140.0	1116.1	1087.5	1084.8	1063.8	1046.9	1040.6	1031.7
15°	1176.2	1139.3	1102.0	1058.2	1039.3	1013.3	997.0	980.8	966.2	955.9	953.2
17.5°	1112.0	1064.4	1027.2	995.7	964.7	938.1	923.2	910.2	898.1	884.4	882.6
20°	1063.1	1021.9	981.4	953.7	921.9	894.8	876.4	863.4	853.1	845.1	838.0
22.5°	1016.8	971.8	934.6	904.4	872.9	851.1	836.6	824.0	815.5	806.5	799.9
25°	942.4	907.3	866.7	832.6	806.6	792.6	780.6	769.8	764.4	758.5	750.9
27.5°	877.3	838.3	800.4	774.0	751.1	738.7	730.3	722.8	717.8	714.3	710.0
30°	831.5	792.0	762.2	736.3	717.4	704.9	699.5	695.2	689.3	687.1	684.9
32.5°	787.3	751.8	726.4	703.8	685.7	677.7	672.7	668.8	664.1	661.9	657.6
35°	725.0	695.2	670.3	657.9	643.3	636.2	632.4	627.0	622.6	620.5	620.0
37.5°	666.2	640.3	623.9	608.0	601.8	597.5	592.3	588.6	587.3	586.9	586.4
40°	628.1	607.0	592.4	579.4	576.7	570.2	565.9	562.6	562.6	563.2	562.6
42.5°	593.5	574.5	561.7	550.4	547.2	543.4	539.1	538.8	539.7	541.5	539.7
45°	541.0	527.5	518.3	512.8	506.9	503.1	502.6	504.2	504.8	505.3	506.9
47.5°	492.8	483.7	475.4	469.4	466.8	466.2	465.5	468.4	471.0	472.0	474.4
50°	464.1	453.9	446.9	443.0	440.9	439.9	440.9	444.2	446.3	449.0	450.6
52.5°	432.1	424.9	420.0	417.1	416.2	416.9	417.1	420.8	424.3	425.2	426.0
55°	387.9	382.5	381.4	376.5	378.7	378.1	380.8	383.0	386.3	389.6	390.0
57.5°	343.7	339.4	336.5	337.0	337.6	340.0	342.3	346.0	349.5	352.9	353.3
60°	314.3	312.2	310.5	310.5	311.6	314.9	317.6	321.3	323.5	325.7	327.3
62.5°	287.5	285.4	283.7	284.5	287.4	289.3	292.4	294.5	296.7	298.8	299.6
65°	245.1	244.0	245.6	246.7	247.2	250.0	253.7	255.4	257.5	258.6	262.4
67.5°	206.0	206.2	206.0	207.5	210.7	211.3	214.9	218.7	219.1	221.2	223.6
70°	179.6	180.7	181.8	182.9	185.6	186.6	189.3	190.9	193.1	194.8	196.4
72.5°	155.4	155.6	156.7	156.5	158.7	161.1	163.4	165.0	167.1	169.3	170.8
75°	119.5	119.5	120.7	121.2	123.9	126.6	126.0	127.1	129.3	131.4	132.6
77.5°	87.3	86.1	87.3	87.9	88.7	91.0	91.4	92.9	95.4	94.7	95.9
80°	66.5	64.9	66.5	67.1	67.1	69.8	69.8	70.8	72.5	70.8	72.5
82.5°	47.5	46.7	47.9	48.0	48.9	49.0	49.9	50.1	51.7	51.0	51.7
85°	23.8	23.2	23.8	23.2	23.8	24.4	24.4	23.8	23.8	24.9	23.2
87.5°	9.2	9.1	9.0	9.4	9.2	9.1	8.9	9.0	9.2	8.6	8.7
90°	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2	20.2	21.2	21.9
92.5°	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1	21.6	22.1	22.5
95°	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7	36.7	37.7	38.1
97.5°	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8	47.5	48.3	48.8
100°	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5	54.1	55.6	56.5
102.5°	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8	56.8	58.8	60.1
105°	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1	59.2	61.3	62.8
107.5°	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7	67.5	65.4	64.7
110°	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2	93.9	74.6	65.4



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1	171.8	101.5	66.7
115°	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4	267.3	178.1	126.5
117.5°	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2	527.6	506.1	472.5
120°	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9	642.2	644.6	632.7
122.5°	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0	680.4	681.8	679.9
125°	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1	736.4	737.8	738.7
127.5°	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9	788.9	790.8	791.9
130°	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8	821.9	824.0	825.0
132.5°	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7	853.6	855.4	856.2
135°	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4	899.4	901.2	902.0
137.5°	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8	941.7	943.5	944.2
140°	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3	969.0	970.7	971.1
142.5°	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5	994.2	995.7	996.1
145°	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0	1029.3	1030.7	1030.9
147.5°	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8	1059.9	1060.9	1060.9
150°	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9	1079.0	1080.2	1080.3
152.5°	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2	1096.4	1097.6	1097.5
155°	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6	1119.8	1121.0	1120.7
157.5°	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3	1139.6	1140.9	1140.8
160°	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8	1151.0	1152.1	1152.0
162.5°	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5	1161.8	1163.2	1162.9
165°	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3
167.5°	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5	1185.9	1187.2	1187.0
170°	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1	1191.4	1192.8	1192.5
172.5°	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3	1195.6	1196.9	1196.8
175°	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7	1200.1	1201.4	1201.2
177.5°	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2	1200.3	1201.4	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1350.1	1349.2	1349.2	1345.3	1349.2	1349.2	1350.1	1354.5	1355.7	1356.6	1354.9
5°	1252.4	1250.8	1248.1	1250.8	1248.1	1250.8	1252.4	1260.0	1263.7	1267.5	1270.8
7.5°	1155.8	1149.2	1148.3	1141.9	1148.3	1149.2	1155.8	1159.4	1166.9	1175.5	1183.2
10°	1085.2	1080.9	1080.4	1070.1	1080.4	1080.9	1085.2	1094.5	1102.0	1112.3	1123.1
12.5°	1031.6	1021.2	1023.2	1017.2	1023.2	1021.2	1031.6	1031.7	1040.6	1046.9	1063.8
15°	938.7	938.7	936.5	927.2	936.5	938.7	938.7	953.2	955.9	966.2	980.8
17.5°	871.9	870.7	865.6	868.2	865.6	870.7	871.9	882.6	884.4	898.1	910.2
20°	832.0	828.8	822.3	822.3	822.3	828.8	832.0	838.0	845.1	853.1	863.4
22.5°	794.4	794.2	787.3	789.4	787.3	794.2	794.4	799.9	806.5	815.5	824.0
25°	750.3	746.0	742.8	744.4	742.8	746.0	750.3	750.9	758.5	764.4	769.8
27.5°	708.6	706.2	706.0	701.6	706.0	706.2	708.6	710.0	714.3	717.8	722.8
30°	684.4	679.0	680.0	677.4	680.0	679.0	684.4	684.9	687.1	689.3	695.2
32.5°	656.6	654.7	653.6	651.3	653.6	654.7	656.6	657.6	661.9	664.1	668.8
35°	618.9	619.5	616.7	617.8	616.7	619.5	618.9	620.0	620.5	622.6	627.0
37.5°	585.9	587.6	586.4	586.7	586.4	587.6	585.9	586.4	586.9	587.3	588.6
40°	564.3	564.3	564.3	565.9	564.3	564.3	564.3	562.6	563.2	562.6	562.6
42.5°	543.5	542.6	541.8	541.6	541.8	542.6	543.5	539.7	541.5	539.7	538.8
45°	508.0	509.6	510.1	507.4	510.1	509.6	508.0	506.9	505.3	504.8	504.2
47.5°	475.9	476.1	475.9	478.3	475.9	476.1	475.9	474.4	472.0	471.0	468.4
50°	453.4	452.2	453.4	452.2	453.4	452.2	453.4	450.6	449.0	446.3	444.2
52.5°	429.6	429.7	429.1	428.9	429.1	429.7	429.6	426.0	425.2	424.3	420.8
55°	392.2	393.3	392.7	392.7	392.7	393.3	392.2	390.0	389.6	386.3	383.0
57.5°	353.6	354.6	355.3	352.9	355.3	354.6	353.6	353.3	352.9	349.5	346.0
60°	326.8	329.5	328.9	327.8	328.9	329.5	326.8	327.3	325.7	323.5	321.3
62.5°	302.1	303.0	303.0	302.7	303.0	303.0	302.1	299.6	298.8	296.7	294.5
65°	264.0	265.1	263.4	265.1	263.4	265.1	264.0	262.4	258.6	257.5	255.4
67.5°	223.0	223.3	224.5	225.3	224.5	223.3	223.0	223.6	221.2	219.1	218.7
70°	197.5	196.9	198.5	200.2	198.5	196.9	197.5	196.4	194.8	193.1	190.9
72.5°	170.6	171.8	171.3	172.4	171.3	171.8	170.6	170.8	169.3	167.1	165.0
75°	131.4	133.1	132.6	134.2	132.6	133.1	131.4	132.6	131.4	129.3	127.1
77.5°	95.0	95.2	95.0	95.9	95.0	95.2	95.0	95.9	94.7	95.4	92.9
80°	72.5	71.4	70.4	72.5	70.4	71.4	72.5	72.5	70.8	72.5	70.8
82.5°	50.4	51.0	50.0	50.0	50.0	51.0	50.4	51.7	51.0	51.7	50.1
85°	23.2	22.7	21.6	21.6	21.6	22.7	23.2	23.2	24.9	23.8	23.8
87.5°	8.8	8.4	8.5	8.2	8.5	8.4	8.8	8.7	8.6	9.2	9.0
90°	22.3	22.7	23.0	23.4	23.0	22.7	22.3	21.9	21.2	20.2	19.2
92.5°	22.7	22.9	23.2	23.4	23.2	22.9	22.7	22.5	22.1	21.6	21.1
95°	37.8	37.7	37.4	37.3	37.4	37.7	37.8	38.1	37.7	36.7	35.7
97.5°	49.1	49.3	49.5	49.7	49.5	49.3	49.1	48.8	48.3	47.5	46.8
100°	56.9	57.3	57.7	58.0	57.7	57.3	56.9	56.5	55.6	54.1	52.5
102.5°	60.6	61.1	61.7	62.2	61.7	61.1	60.6	60.1	58.8	56.8	54.8
105°	63.6	64.3	65.1	65.9	65.1	64.3	63.6	62.8	61.3	59.2	57.1
107.5°	65.5	66.2	67.0	67.8	67.0	66.2	65.5	64.7	65.4	67.5	69.7
110°	66.1	66.9	67.7	68.5	67.7	66.9	66.1	65.4	74.6	93.9	113.2



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	67.3	67.9	68.6	69.1	68.6	67.9	67.3	66.7	101.5	171.8	242.1
115°	112.7	98.8	85.0	71.1	85.0	98.8	112.7	126.5	178.1	267.3	356.4
117.5°	426.9	381.3	335.7	290.2	335.7	381.3	426.9	472.5	506.1	527.6	549.2
120°	606.7	580.7	554.6	528.7	554.6	580.7	606.7	632.7	644.6	642.2	639.9
122.5°	674.9	669.8	664.8	659.7	664.8	669.8	674.9	679.9	681.8	680.4	679.0
125°	739.3	739.9	740.5	741.0	740.5	739.9	739.3	738.7	737.8	736.4	735.1
127.5°	792.0	792.1	792.2	792.3	792.2	792.1	792.0	791.9	790.8	788.9	786.9
130°	824.8	824.6	824.4	824.3	824.4	824.6	824.8	825.0	824.0	821.9	819.8
132.5°	856.0	855.8	855.7	855.4	855.7	855.8	856.0	856.2	855.4	853.6	851.7
135°	901.6	901.2	900.9	900.5	900.9	901.2	901.6	902.0	901.2	899.4	897.4
137.5°	943.5	942.9	942.2	941.6	942.2	942.9	943.5	944.2	943.5	941.7	939.8
140°	970.1	969.1	968.2	967.3	968.2	969.1	970.1	971.1	970.7	969.0	967.3
142.5°	995.1	994.1	993.2	992.2	993.2	994.1	995.1	996.1	995.7	994.2	992.5
145°	1030.0	1029.0	1028.0	1027.0	1028.0	1029.0	1030.0	1030.9	1030.7	1029.3	1028.0
147.5°	1060.1	1059.3	1058.5	1057.7	1058.5	1059.3	1060.1	1060.9	1060.9	1059.9	1058.8
150°	1079.3	1078.4	1077.4	1076.4	1077.4	1078.4	1079.3	1080.3	1080.2	1079.0	1077.9
152.5°	1096.2	1094.9	1093.6	1092.4	1093.6	1094.9	1096.2	1097.5	1097.6	1096.4	1095.2
155°	1119.2	1117.7	1116.1	1114.6	1116.1	1117.7	1119.2	1120.7	1121.0	1119.8	1118.6
157.5°	1139.4	1137.8	1136.4	1134.8	1136.4	1137.8	1139.4	1140.8	1140.9	1139.6	1138.3
160°	1150.7	1149.3	1148.0	1146.6	1148.0	1149.3	1150.7	1152.0	1152.1	1151.0	1149.8
162.5°	1161.3	1159.7	1158.0	1156.3	1158.0	1159.7	1161.3	1162.9	1163.2	1161.8	1160.5
165°	1174.9	1173.6	1172.2	1170.9	1172.2	1173.6	1174.9	1176.3	1176.3	1174.9	1173.6
167.5°	1185.3	1183.6	1181.9	1180.1	1181.9	1183.6	1185.3	1187.0	1187.2	1185.9	1184.5
170°	1190.8	1189.1	1187.4	1185.6	1187.4	1189.1	1190.8	1192.5	1192.8	1191.4	1190.1
172.5°	1195.0	1193.3	1191.6	1189.8	1191.6	1193.3	1195.0	1196.8	1196.9	1195.6	1194.3
175°	1199.2	1197.3	1195.4	1193.4	1195.4	1197.3	1199.2	1201.2	1201.4	1200.1	1198.7
177.5°	1199.9	1198.5	1197.1	1195.7	1197.1	1198.5	1199.9	1201.3	1201.4	1200.3	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1352.7	1357.5	1364.8	1372.6	1377.4	1386.4	1389.0	1393.3	1397.3	1406.4	1415.8
5°	1274.6	1282.1	1300.0	1309.7	1323.2	1339.0	1349.2	1360.1	1372.0	1392.5	1411.4
7.5°	1190.8	1203.5	1225.6	1243.8	1263.1	1285.6	1301.9	1323.2	1341.0	1370.0	1397.7
10°	1135.0	1152.8	1172.9	1194.5	1221.6	1245.4	1268.1	1295.1	1316.8	1351.4	1383.9
12.5°	1084.8	1087.5	1116.1	1140.0	1177.0	1206.4	1232.6	1267.5	1288.7	1329.8	1363.9
15°	997.0	1013.3	1039.3	1058.2	1102.0	1139.3	1176.2	1212.4	1236.7	1287.5	1332.4
17.5°	923.2	938.1	964.7	995.7	1027.2	1064.4	1112.0	1150.1	1183.2	1241.4	1294.5
20°	876.4	894.8	921.9	953.7	981.4	1021.9	1063.1	1106.9	1142.6	1208.0	1270.2
22.5°	836.6	851.1	872.9	904.4	934.6	971.8	1016.8	1064.5	1101.9	1172.6	1235.6
25°	780.6	792.6	806.6	832.6	866.7	907.3	942.4	994.9	1049.5	1115.5	1191.8
27.5°	730.3	738.7	751.1	774.0	800.4	838.3	877.3	927.2	982.1	1053.8	1134.2
30°	699.5	704.9	717.4	736.3	762.2	792.0	831.5	879.1	935.4	1007.9	1087.9
32.5°	672.7	677.7	685.7	703.8	726.4	751.8	787.3	834.9	888.6	959.9	1048.6
35°	632.4	636.2	643.3	657.9	670.3	695.2	725.0	768.2	818.5	886.7	978.7
37.5°	592.3	597.5	601.8	608.0	623.9	640.3	666.2	702.7	752.1	820.9	908.6
40°	565.9	570.2	576.7	579.4	592.4	607.0	628.1	661.6	711.4	774.1	859.7
42.5°	539.1	543.4	547.2	550.4	561.7	574.5	593.5	622.2	666.4	727.4	812.0
45°	502.6	503.1	506.9	512.8	518.3	527.5	541.0	565.9	600.0	657.3	734.1
47.5°	465.5	466.2	466.8	469.4	475.4	483.7	492.8	513.0	543.5	589.2	664.0
50°	440.9	439.9	440.9	443.0	446.9	453.9	464.1	478.7	503.7	546.4	615.1
52.5°	417.1	416.9	416.2	417.1	420.0	424.9	432.1	444.6	466.8	506.1	566.6
55°	380.8	378.1	378.7	376.5	381.4	382.5	387.9	398.2	417.7	444.7	501.5
57.5°	342.3	340.0	337.6	337.0	336.5	339.4	343.7	351.9	366.8	390.4	436.6
60°	317.6	314.9	311.6	310.5	310.5	312.2	314.3	320.2	334.4	355.5	393.3
62.5°	292.4	289.3	287.4	284.5	283.7	285.4	287.5	291.7	301.9	321.6	354.3
65°	253.7	250.0	247.2	246.7	245.6	244.0	245.1	249.4	257.5	273.2	299.1
67.5°	214.9	211.3	210.7	207.5	206.0	206.2	206.0	209.7	214.6	228.1	247.4
70°	189.3	186.6	185.6	182.9	181.8	180.7	179.6	182.9	187.8	199.1	215.9
72.5°	163.4	161.1	158.7	156.5	156.7	155.6	155.4	157.4	161.3	171.8	184.7
75°	126.0	126.6	123.9	121.2	120.7	119.5	119.5	121.2	122.8	130.9	141.2
77.5°	91.4	91.0	88.7	87.9	87.3	86.1	87.3	88.4	89.3	94.7	102.2
80°	69.8	69.8	67.1	67.1	66.5	64.9	66.5	65.5	67.6	73.1	78.4
82.5°	49.9	49.0	48.9	48.0	47.9	46.7	47.5	48.6	49.4	53.2	56.3
85°	24.4	24.4	23.8	23.2	23.8	23.2	23.8	24.4	24.9	26.5	29.2
87.5°	8.9	9.1	9.2	9.4	9.0	9.1	9.2	9.2	9.7	9.7	9.7
90°	18.3	17.4	15.8	14.3	12.7	11.2	9.4	7.3	5.1	3.0	0.9
92.5°	20.6	20.1	19.3	18.6	17.8	17.0	16.7	17.0	17.1	17.3	17.5
95°	34.7	33.8	32.4	31.1	29.8	28.4	30.9	37.3	43.6	50.0	56.3
97.5°	46.0	45.2	42.2	39.0	35.9	32.8	40.2	58.0	76.0	93.9	111.8
100°	51.0	49.4	46.1	42.9	39.5	36.3	47.9	74.3	100.6	127.0	153.4
102.5°	52.8	50.8	78.2	105.6	133.0	160.4	176.8	182.4	188.0	193.6	199.2
105°	55.0	52.8	105.4	158.0	210.6	263.2	286.6	280.8	275.0	269.3	263.5
107.5°	71.8	74.0	137.1	200.2	263.2	326.3	355.5	350.7	346.1	341.4	336.8
110°	132.4	151.6	207.3	263.0	318.6	374.3	400.1	396.1	392.1	388.0	383.9



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	312.3	382.5	396.3	410.1	423.8	437.6	442.6	439.0	435.5	431.9	428.4
115°	445.6	534.8	529.9	525.1	520.3	515.5	511.4	508.2	504.9	501.7	498.4
117.5°	570.7	592.3	589.0	585.7	582.4	579.0	575.6	571.9	568.3	564.6	560.9
120°	637.6	635.3	631.9	628.4	624.9	621.4	618.2	615.4	612.5	609.6	606.7
122.5°	677.6	676.2	672.5	668.6	664.9	661.1	657.7	654.7	651.6	648.6	645.6
125°	733.7	732.4	728.7	725.0	721.4	717.7	714.6	712.2	709.6	707.1	704.7
127.5°	785.0	783.0	780.2	777.5	774.8	772.0	769.3	766.5	763.8	761.0	758.2
130°	817.7	815.5	813.4	811.3	809.2	807.1	804.5	801.4	798.3	795.2	792.1
132.5°	849.9	848.2	846.0	843.9	841.8	839.7	837.3	834.7	832.1	829.5	826.8
135°	895.5	893.6	891.9	890.1	888.4	886.6	884.2	881.2	878.1	875.0	871.9
137.5°	937.9	936.0	934.1	932.1	930.2	928.1	926.1	924.0	921.8	919.7	917.5
140°	965.5	963.8	961.6	959.5	957.4	955.3	953.5	951.9	950.4	948.8	947.3
142.5°	991.0	989.4	987.0	984.6	982.1	979.7	977.8	976.4	975.0	973.6	972.2
145°	1026.6	1025.3	1022.1	1018.7	1015.5	1012.2	1010.6	1010.9	1011.1	1011.2	1011.5
147.5°	1057.9	1056.9	1053.6	1050.4	1047.2	1043.9	1042.7	1043.4	1044.2	1044.9	1045.6
150°	1076.8	1075.5	1072.5	1069.4	1066.3	1063.2	1062.4	1063.7	1065.1	1066.4	1067.8
152.5°	1094.1	1092.9	1090.0	1087.0	1084.1	1081.2	1080.5	1082.0	1083.5	1085.0	1086.5
155°	1117.4	1116.3	1114.0	1111.7	1109.4	1107.1	1106.8	1108.5	1110.3	1112.0	1113.7
157.5°	1137.0	1135.7	1134.1	1132.5	1130.9	1129.3	1129.2	1130.7	1132.1	1133.6	1135.1
160°	1148.7	1147.5	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5
162.5°	1159.2	1157.9	1156.9	1155.9	1154.9	1153.9	1154.0	1155.1	1156.3	1157.5	1158.6
165°	1172.2	1170.9	1170.4	1169.8	1169.1	1168.6	1168.9	1170.0	1171.2	1172.3	1173.5
167.5°	1183.2	1181.9	1181.3	1180.7	1180.2	1179.7	1180.0	1181.1	1182.3	1183.5	1184.6
170°	1188.7	1187.4	1187.0	1186.6	1186.3	1185.9	1186.3	1187.4	1188.5	1189.7	1190.8
172.5°	1192.9	1191.6	1191.2	1190.7	1190.4	1190.0	1190.4	1191.6	1192.7	1193.8	1195.0
175°	1197.4	1196.0	1195.6	1195.3	1194.9	1194.5	1195.0	1196.4	1197.7	1199.1	1200.4
177.5°	1198.2	1197.1	1196.9	1196.8	1196.6	1196.5	1196.9	1198.0	1199.1	1200.2	1201.3
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1415.0	1417.2	1424.1	1431.0	1438.8	1441.0	1444.5	1441.4	1440.6	1448.8	1454.8
5°	1419.0	1428.7	1447.7	1465.0	1479.6	1489.9	1500.7	1505.0	1513.1	1524.5	1538.6
7.5°	1414.5	1433.4	1463.1	1488.4	1515.9	1535.6	1551.1	1564.3	1580.4	1601.9	1625.4
10°	1409.2	1434.7	1471.0	1501.8	1535.3	1560.7	1581.8	1602.4	1626.2	1656.0	1686.8
12.5°	1399.8	1430.0	1475.3	1511.7	1554.8	1579.8	1608.3	1652.6	1678.1	1719.6	1763.0
15°	1380.6	1414.1	1477.4	1522.3	1571.0	1618.6	1671.1	1713.4	1755.5	1779.9	1841.0
17.5°	1352.2	1401.4	1471.5	1523.9	1585.8	1660.8	1719.7	1767.5	1816.2	1855.7	1886.4
20°	1329.2	1382.7	1462.8	1525.6	1599.1	1679.8	1747.4	1796.1	1838.3	1871.3	1890.2
22.5°	1300.2	1367.6	1445.5	1519.1	1613.0	1692.7	1763.8	1802.1	1837.4	1853.5	1860.8
25°	1254.6	1335.7	1423.9	1513.7	1619.8	1704.1	1769.0	1792.3	1802.5	1786.9	1760.9
27.5°	1205.3	1295.8	1398.9	1503.5	1615.6	1696.7	1743.3	1739.6	1722.2	1671.4	1630.8
30°	1168.6	1268.1	1379.0	1493.1	1605.7	1684.7	1711.7	1684.7	1645.1	1588.4	1530.5
32.5°	1130.0	1233.1	1357.8	1478.4	1587.5	1656.9	1662.8	1616.2	1555.1	1490.5	1418.4
35°	1071.7	1183.2	1317.8	1445.5	1548.8	1592.7	1566.7	1484.5	1412.0	1323.8	1225.3
37.5°	1005.8	1128.9	1264.0	1397.3	1490.9	1502.4	1437.9	1351.4	1249.1	1145.5	1029.6
40°	956.5	1086.9	1225.9	1360.6	1443.3	1431.4	1349.2	1254.0	1132.3	1005.7	898.1
42.5°	912.3	1042.7	1184.3	1316.5	1382.7	1350.1	1254.0	1137.2	1006.3	887.1	788.6
45°	835.8	970.0	1115.0	1242.7	1280.5	1221.6	1094.5	964.6	835.8	736.3	658.4
47.5°	761.6	894.2	1037.8	1150.1	1163.4	1084.1	945.2	811.6	700.9	619.9	564.9
50°	707.1	840.2	982.4	1082.6	1078.2	982.4	839.6	712.5	620.0	554.5	517.7
52.5°	658.2	783.9	920.6	1011.5	988.6	884.2	747.9	635.0	559.0	507.8	474.4
55°	582.1	698.4	828.3	901.3	859.1	743.3	628.1	537.2	480.9	442.5	416.5
57.5°	506.5	615.6	726.8	771.8	725.1	618.2	522.2	456.2	413.9	385.5	368.6
60°	459.8	555.1	654.0	693.0	637.3	542.1	466.4	407.4	373.2	350.0	334.8
62.5°	413.1	498.4	591.7	612.9	562.0	481.5	414.4	365.4	337.4	316.7	302.4
65°	349.5	419.2	490.2	504.2	457.1	394.9	341.9	310.0	285.1	269.9	258.6
67.5°	286.6	342.7	392.9	404.2	363.0	319.8	281.5	253.7	236.8	224.3	214.7
70°	249.4	293.8	334.8	344.1	311.0	272.6	243.4	221.3	206.1	195.3	186.1
72.5°	210.0	247.0	281.2	287.4	260.4	231.1	207.1	189.6	176.3	169.3	160.5
75°	160.7	182.3	208.8	210.4	192.6	174.7	156.4	145.0	137.9	129.3	125.0
77.5°	113.4	130.4	145.5	148.5	137.9	125.7	115.4	106.5	100.5	96.5	92.5
80°	86.6	100.1	106.6	110.4	102.8	94.2	88.2	82.3	78.4	75.7	73.1
82.5°	61.9	70.2	76.3	79.2	75.1	69.9	63.9	60.6	57.6	55.4	54.5
85°	31.4	35.1	39.0	40.0	39.0	36.8	33.5	33.5	31.9	31.4	31.4
87.5°	11.4	13.5	14.0	15.7	15.2	15.5	15.8	15.7	15.6	15.3	15.1
90°	3.0	5.1	7.3	9.4	11.2	12.7	14.3	15.8	17.4	18.3	19.2
92.5°	17.3	17.1	17.0	16.7	17.0	17.8	18.6	19.3	20.1	20.6	21.1
95°	50.0	43.6	37.3	30.9	28.4	29.8	31.1	32.4	33.8	34.7	35.7
97.5°	93.9	76.0	58.0	40.2	32.8	35.9	39.0	42.2	45.2	46.0	46.8
100°	127.0	100.6	74.3	47.9	36.3	39.5	42.9	46.1	49.4	51.0	52.5
102.5°	193.6	188.0	182.4	176.8	160.4	133.0	105.6	78.2	50.8	52.8	54.8
105°	269.3	275.0	280.8	286.6	263.2	210.6	158.0	105.4	52.8	55.0	57.1
107.5°	341.4	346.1	350.7	355.5	326.3	263.2	200.2	137.1	74.0	71.8	69.7
110°	388.0	392.1	396.1	400.1	374.3	318.6	263.0	207.3	151.6	132.4	113.2



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	431.9	435.5	439.0	442.6	437.6	423.8	410.1	396.3	382.5	312.3	242.1
115°	501.7	504.9	508.2	511.4	515.5	520.3	525.1	529.9	534.8	445.6	356.4
117.5°	564.6	568.3	571.9	575.6	579.0	582.4	585.7	589.0	592.3	570.7	549.2
120°	609.6	612.5	615.4	618.2	621.4	624.9	628.4	631.9	635.3	637.6	639.9
122.5°	648.6	651.6	654.7	657.7	661.1	664.9	668.6	672.5	676.2	677.6	679.0
125°	707.1	709.6	712.2	714.6	717.7	721.4	725.0	728.7	732.4	733.7	735.1
127.5°	761.0	763.8	766.5	769.3	772.0	774.8	777.5	780.2	783.0	785.0	786.9
130°	795.2	798.3	801.4	804.5	807.1	809.2	811.3	813.4	815.5	817.7	819.8
132.5°	829.5	832.1	834.7	837.3	839.7	841.8	843.9	846.0	848.2	849.9	851.7
135°	875.0	878.1	881.2	884.2	886.6	888.4	890.1	891.9	893.6	895.5	897.4
137.5°	919.7	921.8	924.0	926.1	928.1	930.2	932.1	934.1	936.0	937.9	939.8
140°	948.8	950.4	951.9	953.5	955.3	957.4	959.5	961.6	963.8	965.5	967.3
142.5°	973.6	975.0	976.4	977.8	979.7	982.1	984.6	987.0	989.4	991.0	992.5
145°	1011.2	1011.1	1010.9	1010.6	1012.2	1015.5	1018.7	1022.1	1025.3	1026.6	1028.0
147.5°	1044.9	1044.2	1043.4	1042.7	1043.9	1047.2	1050.4	1053.6	1056.9	1057.9	1058.8
150°	1066.4	1065.1	1063.7	1062.4	1063.2	1066.3	1069.4	1072.5	1075.5	1076.8	1077.9
152.5°	1085.0	1083.5	1082.0	1080.5	1081.2	1084.1	1087.0	1090.0	1092.9	1094.1	1095.2
155°	1112.0	1110.3	1108.5	1106.8	1107.1	1109.4	1111.7	1114.0	1116.3	1117.4	1118.6
157.5°	1133.6	1132.1	1130.7	1129.2	1129.3	1130.9	1132.5	1134.1	1135.7	1137.0	1138.3
160°	1146.4	1145.2	1144.0	1142.9	1142.9	1144.0	1145.2	1146.4	1147.5	1148.7	1149.8
162.5°	1157.5	1156.3	1155.1	1154.0	1153.9	1154.9	1155.9	1156.9	1157.9	1159.2	1160.5
165°	1172.3	1171.2	1170.0	1168.9	1168.6	1169.1	1169.8	1170.4	1170.9	1172.2	1173.6
167.5°	1183.5	1182.3	1181.1	1180.0	1179.7	1180.2	1180.7	1181.3	1181.9	1183.2	1184.5
170°	1189.7	1188.5	1187.4	1186.3	1185.9	1186.3	1186.6	1187.0	1187.4	1188.7	1190.1
172.5°	1193.8	1192.7	1191.6	1190.4	1190.0	1190.4	1190.7	1191.2	1191.6	1192.9	1194.3
175°	1199.1	1197.7	1196.4	1195.0	1194.5	1194.9	1195.3	1195.6	1196.0	1197.4	1198.7
177.5°	1200.2	1199.1	1198.0	1196.9	1196.5	1196.6	1196.8	1196.9	1197.1	1198.2	1199.2
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1460.0	1466.1	1466.1	1467.0	1473.9	1473.0	1472.6
5°	1553.7	1562.9	1564.0	1573.8	1580.2	1578.1	1572.1
7.5°	1642.1	1659.2	1672.2	1679.4	1688.0	1693.3	1690.9
10°	1712.2	1737.1	1752.2	1762.5	1775.0	1784.2	1780.9
12.5°	1775.9	1805.5	1826.3	1843.9	1845.5	1857.3	1849.3
15°	1875.1	1906.4	1909.7	1922.6	1933.0	1931.9	1932.4
17.5°	1907.9	1917.9	1919.9	1920.3	1920.4	1916.6	1908.4
20°	1896.1	1892.4	1883.2	1876.2	1863.7	1862.1	1851.3
22.5°	1840.8	1828.8	1805.7	1790.5	1771.1	1766.0	1763.0
25°	1731.7	1705.2	1668.4	1633.2	1623.5	1604.6	1610.0
27.5°	1582.1	1540.8	1500.9	1472.3	1446.5	1418.1	1426.3
30°	1476.9	1430.4	1374.1	1330.8	1303.3	1276.2	1271.3
32.5°	1351.4	1283.2	1220.5	1182.3	1140.1	1123.0	1104.2
35°	1135.0	1068.4	1006.2	952.7	921.9	898.1	876.4
37.5°	940.4	863.7	813.5	770.1	747.9	734.3	737.7
40°	819.6	752.5	715.8	682.7	662.2	652.4	654.6
42.5°	721.8	671.6	641.3	618.6	604.1	598.8	597.5
45°	610.7	582.6	557.7	544.8	537.8	531.8	528.0
47.5°	535.0	512.1	498.1	490.3	484.2	478.1	478.0
50°	489.6	474.4	464.7	456.6	451.8	447.4	451.2
52.5°	454.9	441.2	431.4	424.1	422.3	418.4	418.3
55°	403.6	392.7	385.7	379.2	376.0	373.8	371.1
57.5°	356.9	346.6	340.1	336.0	329.8	327.6	326.8
60°	323.5	315.4	308.9	303.5	300.8	296.4	296.4
62.5°	292.8	284.7	278.6	274.5	270.0	268.3	268.8
65°	248.3	241.8	235.9	231.5	230.5	227.2	228.3
67.5°	207.4	203.1	196.8	194.4	192.4	190.6	189.3
70°	180.2	175.9	172.6	169.3	167.7	167.7	167.7
72.5°	157.2	152.1	150.1	145.9	146.9	145.2	143.5
75°	121.7	118.5	116.8	115.2	112.5	112.5	112.5
77.5°	89.6	88.6	86.7	85.0	84.3	83.7	84.0
80°	69.2	68.7	67.6	67.6	66.5	66.0	64.9
82.5°	53.2	51.9	51.2	50.7	50.5	50.4	50.2
85°	30.3	29.2	29.2	29.8	28.7	28.7	29.2
87.5°	15.7	15.9	15.7	15.7	16.2	15.8	15.9
90°	20.2	21.2	21.9	22.3	22.7	23.0	23.4
92.5°	21.6	22.1	22.5	22.7	22.9	23.2	23.4
95°	36.7	37.7	38.1	37.8	37.7	37.4	37.3
97.5°	47.5	48.3	48.8	49.1	49.3	49.5	49.7
100°	54.1	55.6	56.5	56.9	57.3	57.7	58.0
102.5°	56.8	58.8	60.1	60.6	61.1	61.7	62.2
105°	59.2	61.3	62.8	63.6	64.3	65.1	65.9
107.5°	67.5	65.4	64.7	65.5	66.2	67.0	67.8
110°	93.9	74.6	65.4	66.1	66.9	67.7	68.5



TEST NUMBER: P331411-930

CATALOG NUMBER: S122DIP-S865D1080U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	171.8	101.5	66.7	67.3	67.9	68.6	69.1
115°	267.3	178.1	126.5	112.7	98.8	85.0	71.1
117.5°	527.6	506.1	472.5	426.9	381.3	335.7	290.2
120°	642.2	644.6	632.7	606.7	580.7	554.6	528.7
122.5°	680.4	681.8	679.9	674.9	669.8	664.8	659.7
125°	736.4	737.8	738.7	739.3	739.9	740.5	741.0
127.5°	788.9	790.8	791.9	792.0	792.1	792.2	792.3
130°	821.9	824.0	825.0	824.8	824.6	824.4	824.3
132.5°	853.6	855.4	856.2	856.0	855.8	855.7	855.4
135°	899.4	901.2	902.0	901.6	901.2	900.9	900.5
137.5°	941.7	943.5	944.2	943.5	942.9	942.2	941.6
140°	969.0	970.7	971.1	970.1	969.1	968.2	967.3
142.5°	994.2	995.7	996.1	995.1	994.1	993.2	992.2
145°	1029.3	1030.7	1030.9	1030.0	1029.0	1028.0	1027.0
147.5°	1059.9	1060.9	1060.9	1060.1	1059.3	1058.5	1057.7
150°	1079.0	1080.2	1080.3	1079.3	1078.4	1077.4	1076.4
152.5°	1096.4	1097.6	1097.5	1096.2	1094.9	1093.6	1092.4
155°	1119.8	1121.0	1120.7	1119.2	1117.7	1116.1	1114.6
157.5°	1139.6	1140.9	1140.8	1139.4	1137.8	1136.4	1134.8
160°	1151.0	1152.1	1152.0	1150.7	1149.3	1148.0	1146.6
162.5°	1161.8	1163.2	1162.9	1161.3	1159.7	1158.0	1156.3
165°	1174.9	1176.3	1176.3	1174.9	1173.6	1172.2	1170.9
167.5°	1185.9	1187.2	1187.0	1185.3	1183.6	1181.9	1180.1
170°	1191.4	1192.8	1192.5	1190.8	1189.1	1187.4	1185.6
172.5°	1195.6	1196.9	1196.8	1195.0	1193.3	1191.6	1189.8
175°	1200.1	1201.4	1201.2	1199.2	1197.3	1195.4	1193.4
177.5°	1200.3	1201.4	1201.3	1199.9	1198.5	1197.1	1195.7
180°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8

(END OF REPORT)