

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: P331456-935

Luminaire Tested: **SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331456-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

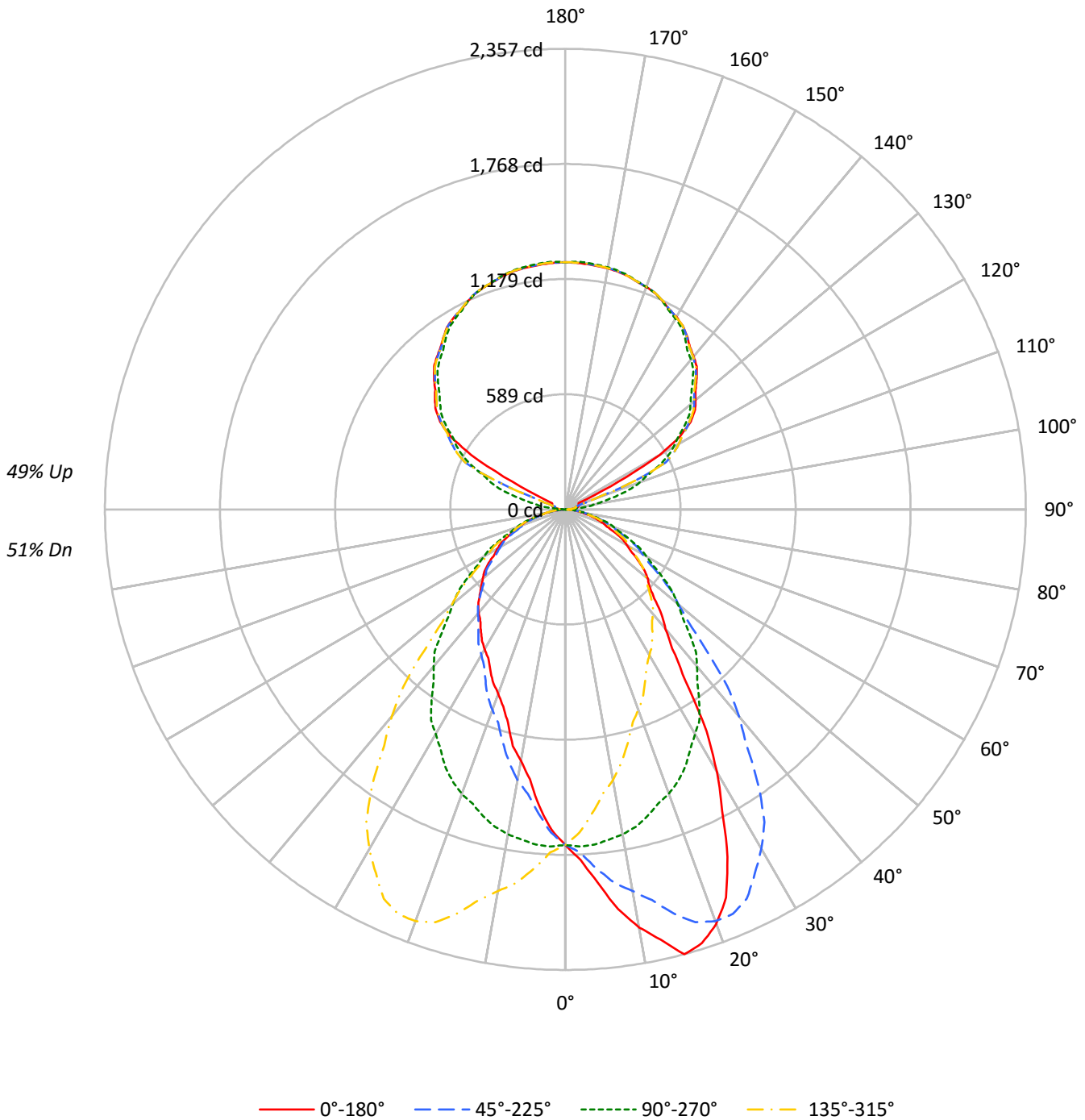
Lumens per Lamp: N/A
Luminaire Lumens: 7497.8 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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: P331456-935
CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22
7	60	48	40	34	55	44	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16
10	48	36	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27719	27719	27719	27719
5°	31076	27901	24725	27901
10°	35611	27671	21397	27671
15°	39397	27164	18903	27164
20°	38797	26620	17234	26620
25°	34983	25896	16174	25896
30°	28909	24738	15401	24738
35°	21068	23526	14852	23526
40°	16828	22097	14547	22097
45°	14705	20445	14132	20445
50°	13823	18844	13855	18844
55°	12740	17219	13486	17219
60°	11677	15490	12910	15490
65°	10636	13941	12351	13941
70°	9659	12430	11528	12430
75°	8559	10742	10212	10742
80°	7364	8898	8219	8898
85°	6595	6595	4891	6595



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	2.2
10°-20°	475.3	6.3
20°-30°	689.9	9.2
30°-40°	728.0	9.7
40°-50°	644.6	8.6
50°-60°	514.4	6.9
60°-70°	349.6	4.7
70°-80°	179.3	2.4
80°-90°	46.3	0.6
90°-100°	42.2	0.6
100°-110°	154.7	2.1
110°-120°	413.6	5.5
120°-130°	682.8	9.1
130°-140°	726.1	9.7
140°-150°	674.9	9.0
150°-160°	542.6	7.2
160°-170°	349.7	4.7
170°-180°	120.4	1.6
0°-30°	1328.7	17.7
0°-40°	2056.7	27.4
0°-60°	3215.7	42.9
0°-90°	3790.9	50.6
90°-120°	610.5	8.1
90°-150°	2694.3	35.9
90°-180°	3707.0	49.4
0°-180°	7497.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1717	1717	1717	1717	1717	
5°	1917	1722	1526	1722	1917	191
15°	2357	1625	1131	1625	2357	650
25°	1964	1454	908	1454	1964	888
35°	1069	1194	754	1194	1069	695
45°	644	895	619	895	644	506
55°	453	612	479	612	453	406
65°	278	365	323	365	278	277
75°	137	172	164	172	137	147
85°	36	36	26	36	36	40
90°	25	1	25	1	25	13
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	



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1796.0	1796.6	1797.6	1789.2	1788.1	1788.1	1780.7	1774.4	1767.0	1757.0	1758.1
5°	1917.4	1924.7	1927.3	1919.4	1907.5	1906.3	1895.1	1876.5	1859.4	1845.6	1835.7
7.5°	2062.4	2065.3	2058.8	2048.4	2039.5	2023.7	2002.9	1982.4	1953.8	1927.5	1908.0
10°	2172.1	2176.1	2164.9	2149.7	2137.2	2118.7	2088.4	2057.4	2019.7	1983.5	1954.4
12.5°	2255.6	2265.3	2250.9	2248.9	2227.5	2202.1	2165.9	2150.3	2097.3	2046.8	2015.7
15°	2356.9	2356.2	2357.6	2345.0	2329.2	2325.2	2287.0	2245.4	2170.8	2141.1	2089.6
17.5°	2327.6	2337.6	2342.3	2342.1	2341.7	2339.3	2326.9	2300.7	2263.3	2215.2	2155.8
20°	2258.0	2271.1	2273.1	2288.3	2296.9	2308.1	2312.7	2305.4	2282.3	2242.1	2190.6
22.5°	2150.3	2154.0	2160.2	2183.8	2202.4	2230.5	2245.1	2269.5	2260.7	2241.0	2198.0
25°	1963.7	1957.1	1980.1	1992.0	2034.9	2079.7	2112.1	2147.8	2179.4	2198.6	2186.0
27.5°	1739.6	1729.7	1764.3	1795.8	1830.7	1879.2	1929.6	1989.1	2038.6	2100.5	2121.8
30°	1550.6	1556.5	1589.5	1623.2	1675.9	1744.6	1801.3	1866.6	1937.2	2006.6	2054.7
32.5°	1346.9	1369.7	1390.5	1442.1	1488.6	1565.1	1648.2	1729.9	1818.0	1896.8	1971.3
35°	1068.9	1095.3	1124.4	1161.9	1227.3	1303.1	1384.3	1494.5	1614.6	1722.2	1810.6
37.5°	899.7	895.5	912.1	939.4	992.2	1053.5	1146.9	1255.8	1397.1	1523.5	1648.2
40°	798.4	795.7	807.6	832.7	873.0	917.8	999.6	1095.3	1226.6	1381.0	1529.5
42.5°	728.8	730.3	736.9	754.6	782.1	819.1	880.4	961.7	1082.0	1227.4	1387.0
45°	644.0	648.6	655.9	664.4	680.3	710.7	744.9	803.1	898.0	1019.4	1176.5
47.5°	583.0	583.2	590.6	598.1	607.4	624.6	652.6	689.0	756.0	854.9	989.9
50°	550.3	545.7	551.0	556.9	566.8	578.7	597.1	631.5	676.3	756.1	869.0
52.5°	510.1	510.3	515.1	517.3	526.2	538.0	554.9	578.7	619.3	681.7	774.5
55°	452.6	455.9	458.6	462.5	470.5	479.1	492.2	508.1	539.8	586.6	655.2
57.5°	398.6	399.6	402.3	409.7	414.7	422.7	435.2	449.6	470.2	504.9	556.5
60°	361.6	361.6	366.9	370.1	376.8	384.7	394.6	408.5	426.9	455.3	496.9
62.5°	327.8	327.3	329.4	334.8	339.8	347.2	357.1	368.9	386.2	411.5	445.7
65°	278.4	277.2	281.1	282.4	287.7	295.0	302.9	315.4	329.2	347.8	378.1
67.5°	230.9	232.6	234.6	237.1	240.0	247.7	253.0	261.8	273.5	288.9	309.4
70°	204.6	204.6	204.6	206.6	210.5	214.5	219.7	227.0	238.2	251.4	269.8
72.5°	175.0	177.1	179.2	178.1	183.0	185.4	191.7	195.9	206.6	215.0	231.4
75°	137.2	137.2	137.2	140.5	142.5	144.5	148.4	152.4	157.7	168.2	176.8
77.5°	102.4	102.1	102.8	103.6	105.7	108.1	109.3	112.8	117.7	122.6	129.8
80°	79.2	80.5	81.2	82.5	82.5	83.8	84.5	89.1	92.4	95.7	100.3
82.5°	61.2	61.5	61.6	61.9	62.4	63.2	64.9	66.4	67.6	70.3	73.9
85°	35.6	35.0	35.0	36.2	35.6	35.6	36.9	38.2	38.2	38.9	40.9
87.5°	18.7	18.6	19.0	18.4	18.3	18.8	18.5	17.8	18.1	18.4	18.7
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



TEST NUMBER: P331456-935
 CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

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



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1761.8	1757.6	1754.9	1745.4	1736.9	1728.5	1725.9	1726.9	1715.3	1704.2	1699.4
5°	1830.4	1817.1	1804.7	1786.8	1765.7	1742.6	1730.7	1721.5	1698.4	1673.4	1658.8
7.5°	1891.9	1873.0	1848.8	1815.3	1784.6	1748.3	1725.2	1704.7	1670.9	1635.6	1613.9
10°	1929.3	1903.6	1872.6	1831.7	1794.1	1749.9	1718.8	1687.8	1648.2	1606.0	1579.6
12.5°	1961.5	1926.8	1896.4	1843.8	1799.3	1744.0	1707.3	1663.5	1621.9	1571.7	1545.8
15°	2038.2	1974.2	1916.2	1856.7	1802.0	1724.8	1683.9	1625.1	1570.4	1508.4	1478.7
17.5°	2097.5	2025.5	1934.1	1858.6	1794.8	1709.3	1649.2	1578.8	1514.1	1443.2	1402.8
20°	2131.2	2048.7	1950.4	1860.7	1784.2	1686.5	1621.2	1549.3	1473.4	1393.5	1350.0
22.5°	2151.3	2064.6	1967.4	1852.8	1763.1	1668.0	1585.8	1507.0	1430.1	1343.9	1298.3
25°	2157.7	2078.5	1975.6	1846.2	1736.6	1629.1	1530.2	1453.6	1360.6	1280.0	1213.4
27.5°	2126.2	2069.5	1970.5	1833.8	1706.2	1580.5	1470.1	1383.4	1285.2	1197.8	1130.8
30°	2087.7	2054.7	1958.3	1821.1	1681.9	1546.6	1425.2	1326.9	1229.2	1140.8	1072.2
32.5°	2028.1	2020.9	1936.2	1803.2	1656.0	1503.9	1378.3	1278.8	1170.7	1083.8	1018.4
35°	1910.9	1942.5	1889.1	1763.1	1607.3	1443.0	1307.1	1193.6	1081.5	998.3	936.9
37.5°	1753.9	1832.5	1818.5	1704.3	1541.6	1376.8	1226.8	1108.1	1001.3	917.3	857.1
40°	1645.6	1745.9	1760.4	1659.5	1495.2	1325.6	1166.6	1048.4	944.2	867.7	806.9
42.5°	1529.5	1646.7	1686.5	1605.6	1444.5	1271.8	1112.8	990.4	887.2	812.8	759.0
45°	1334.8	1489.9	1561.9	1515.6	1359.9	1183.1	1019.4	895.4	801.7	731.8	690.2
47.5°	1152.9	1322.3	1419.0	1402.7	1265.8	1090.7	928.9	809.9	718.7	662.9	625.7
50°	1024.1	1198.3	1315.0	1320.3	1198.3	1024.7	862.4	750.2	666.4	614.3	583.9
52.5°	912.1	1078.4	1205.7	1233.7	1122.7	956.1	802.7	691.1	617.3	569.5	542.3
55°	766.0	906.6	1047.8	1099.2	1010.2	851.9	710.0	611.7	542.3	509.4	485.6
57.5°	636.9	754.1	884.4	941.3	886.4	750.9	617.9	532.4	476.3	447.4	429.1
60°	568.8	661.2	777.3	845.2	797.7	677.0	560.9	479.7	433.5	407.8	390.6
62.5°	505.4	587.3	685.4	747.6	721.7	607.9	503.9	432.2	392.4	368.2	355.8
65°	417.0	481.6	557.6	614.9	597.8	511.3	426.3	364.9	333.2	314.1	304.2
67.5°	343.4	390.1	442.7	493.0	479.1	417.9	349.6	301.8	278.2	261.7	255.7
70°	297.0	332.5	379.4	419.7	408.5	358.3	304.2	263.3	242.8	228.9	223.0
72.5°	252.6	281.9	317.6	350.5	342.9	301.3	256.1	225.2	209.6	196.7	191.9
75°	190.7	213.1	234.9	256.7	254.7	222.4	196.0	172.2	159.7	149.8	147.8
77.5°	140.8	153.3	168.2	181.1	177.5	159.0	138.3	124.7	115.5	108.8	107.8
80°	107.5	114.8	125.4	134.6	130.0	122.1	105.6	95.7	89.1	82.5	79.8
82.5°	78.0	85.2	91.6	96.6	93.1	85.7	75.5	68.8	64.8	60.3	59.2
85°	40.9	44.9	47.5	48.8	47.5	42.9	38.2	35.6	32.4	30.4	29.7
87.5°	18.9	18.5	18.2	18.9	16.9	16.4	13.9	11.8	11.7	11.6	11.0
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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1694.2	1691.0	1679.9	1674.1	1664.7	1655.6	1649.8	1652.5	1654.6	1653.6	1651.9
5°	1645.6	1633.1	1613.9	1597.4	1585.5	1563.8	1554.5	1550.0	1546.0	1541.4	1536.7
7.5°	1587.8	1568.1	1540.6	1517.1	1494.9	1467.8	1452.4	1443.2	1433.7	1423.2	1414.0
10°	1546.6	1518.9	1489.9	1456.9	1430.6	1406.1	1384.3	1369.8	1356.6	1344.1	1334.8
12.5°	1503.4	1471.4	1435.5	1390.4	1361.3	1326.4	1323.1	1297.5	1276.9	1269.1	1258.3
15°	1434.4	1389.6	1344.1	1290.6	1267.6	1235.9	1216.1	1196.3	1178.5	1165.9	1162.6
17.5°	1356.2	1298.1	1252.8	1214.4	1176.6	1144.2	1125.9	1110.1	1095.5	1078.7	1076.4
20°	1296.6	1246.4	1197.0	1163.3	1124.4	1091.3	1068.9	1053.1	1040.5	1030.6	1022.1
22.5°	1240.1	1185.2	1139.9	1103.1	1064.7	1038.0	1020.4	1005.0	994.6	983.7	975.6
25°	1149.4	1106.6	1057.0	1015.5	983.8	966.6	952.1	938.9	932.4	925.1	915.8
27.5°	1070.1	1022.4	976.1	943.9	916.1	901.0	890.6	881.7	875.5	871.2	866.0
30°	1014.2	966.0	929.7	898.0	874.9	859.8	853.2	847.9	840.6	838.0	835.3
32.5°	960.3	916.9	885.9	858.4	836.4	826.5	820.4	815.7	810.0	807.4	802.1
35°	884.2	847.9	817.5	802.4	784.5	775.9	771.4	764.7	759.5	756.8	756.1
37.5°	812.5	781.0	761.0	741.5	734.0	728.8	722.4	717.9	716.4	715.9	715.2
40°	766.0	740.3	722.6	706.7	703.4	695.4	690.2	686.2	686.2	686.9	686.2
42.5°	723.8	700.8	685.0	671.3	667.4	662.7	657.5	657.2	658.2	660.5	658.2
45°	659.9	643.3	632.1	625.5	618.3	613.6	612.9	614.9	615.6	616.3	618.3
47.5°	601.0	590.0	579.9	572.6	569.5	568.6	567.8	571.3	574.5	575.7	578.7
50°	566.1	553.6	545.0	540.4	537.8	536.4	537.8	541.7	544.3	547.7	549.7
52.5°	527.1	518.2	512.3	508.8	507.6	508.5	508.8	513.2	517.5	518.7	519.5
55°	473.1	466.5	465.2	459.3	461.8	461.2	464.5	467.2	471.1	475.1	475.7
57.5°	419.2	414.0	410.4	411.0	411.7	414.7	417.4	422.1	426.3	430.5	430.8
60°	383.4	380.7	378.8	378.8	380.0	384.0	387.3	391.9	394.6	397.2	399.2
62.5°	350.6	348.0	346.0	347.1	350.5	352.8	356.7	359.2	361.9	364.5	365.4
65°	298.9	297.6	299.5	300.9	301.5	304.9	309.4	311.4	314.1	315.4	320.0
67.5°	251.2	251.5	251.2	253.1	256.9	257.7	262.1	266.7	267.3	269.8	272.8
70°	219.0	220.4	221.7	223.0	226.4	227.6	230.9	232.9	235.6	237.5	239.5
72.5°	189.5	189.8	191.1	190.8	193.6	196.5	199.2	201.2	203.9	206.4	208.4
75°	145.9	145.9	147.1	147.8	151.1	154.4	153.8	155.1	157.7	160.3	161.7
77.5°	106.5	105.0	106.5	107.2	108.2	111.0	111.5	113.4	116.4	115.5	116.9
80°	81.2	79.2	81.2	81.8	81.8	85.2	85.2	86.4	88.4	86.4	88.4
82.5°	57.9	57.0	58.5	58.6	59.7	59.8	60.9	61.1	63.1	62.2	63.1
85°	29.0	28.4	29.0	28.4	29.0	29.7	29.7	29.0	29.0	30.4	28.4
87.5°	10.9	10.8	10.6	10.9	10.8	10.5	10.2	10.4	10.6	9.7	9.9
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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-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



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1646.7	1645.6	1645.6	1640.9	1645.6	1645.6	1646.7	1651.9	1653.6	1654.6	1652.5
5°	1527.5	1525.5	1522.2	1525.5	1522.2	1525.5	1527.5	1536.7	1541.4	1546.0	1550.0
7.5°	1409.6	1401.7	1400.6	1392.8	1400.6	1401.7	1409.6	1414.0	1423.2	1433.7	1443.2
10°	1323.6	1318.4	1317.7	1305.1	1317.7	1318.4	1323.6	1334.8	1344.1	1356.6	1369.8
12.5°	1258.2	1245.5	1248.0	1240.7	1248.0	1245.5	1258.2	1258.3	1269.1	1276.9	1297.5
15°	1144.8	1144.8	1142.2	1130.9	1142.2	1144.8	1144.8	1162.6	1165.9	1178.5	1196.3
17.5°	1063.4	1062.0	1055.8	1058.9	1055.8	1062.0	1063.4	1076.4	1078.7	1095.5	1110.1
20°	1014.8	1010.9	1003.0	1003.0	1003.0	1010.9	1014.8	1022.1	1030.6	1040.5	1053.1
22.5°	968.9	968.6	960.2	962.9	960.2	968.6	968.9	975.6	983.7	994.6	1005.0
25°	915.2	909.9	905.9	907.9	905.9	909.9	915.2	915.8	925.1	932.4	938.9
27.5°	864.3	861.3	861.1	855.7	861.1	861.3	864.3	866.0	871.2	875.5	881.7
30°	834.7	828.1	829.4	826.1	829.4	828.1	834.7	835.3	838.0	840.6	847.9
32.5°	800.9	798.5	797.2	794.4	797.2	798.5	800.9	802.1	807.4	810.0	815.7
35°	754.8	755.5	752.2	753.5	752.2	755.5	754.8	756.1	756.8	759.5	764.7
37.5°	714.6	716.7	715.1	715.5	715.1	716.7	714.6	715.2	715.9	716.4	717.9
40°	688.2	688.2	688.2	690.2	688.2	688.2	688.2	686.2	686.9	686.2	686.2
42.5°	662.9	661.9	660.7	660.6	660.7	661.9	662.9	658.2	660.5	658.2	657.2
45°	619.6	621.6	622.2	618.9	622.2	621.6	619.6	618.3	616.3	615.6	614.9
47.5°	580.4	580.7	580.4	583.3	580.4	580.7	580.4	578.7	575.7	574.5	571.3
50°	552.9	551.6	552.9	551.6	552.9	551.6	552.9	549.7	547.7	544.3	541.7
52.5°	523.9	524.2	523.4	523.1	523.4	524.2	523.9	519.5	518.7	517.5	513.2
55°	478.4	479.7	479.1	479.1	479.1	479.7	478.4	475.7	475.1	471.1	467.2
57.5°	431.3	432.5	433.3	430.5	433.3	432.5	431.3	430.8	430.5	426.3	422.1
60°	398.6	401.8	401.1	399.8	401.1	401.8	398.6	399.2	397.2	394.6	391.9
62.5°	368.4	369.6	369.5	369.3	369.5	369.6	368.4	365.4	364.5	361.9	359.2
65°	322.0	323.3	321.3	323.3	321.3	323.3	322.0	320.0	315.4	314.1	311.4
67.5°	272.0	272.4	273.8	274.7	273.8	272.4	272.0	272.8	269.8	267.3	266.7
70°	240.8	240.2	242.2	244.2	242.2	240.2	240.8	239.5	237.5	235.6	232.9
72.5°	208.1	209.6	208.9	210.3	208.9	209.6	208.1	208.4	206.4	203.9	201.2
75°	160.3	162.3	161.7	163.7	161.7	162.3	160.3	161.7	160.3	157.7	155.1
77.5°	115.9	116.1	115.9	116.9	115.9	116.1	115.9	116.9	115.5	116.4	113.4
80°	88.4	87.1	85.8	88.4	85.8	87.1	88.4	88.4	86.4	88.4	86.4
82.5°	61.5	62.3	61.0	61.0	61.0	62.3	61.5	63.1	62.2	63.1	61.1
85°	28.4	27.7	26.4	26.4	26.4	27.7	28.4	28.4	30.4	29.0	29.0
87.5°	10.0	9.6	9.6	9.1	9.6	9.6	10.0	9.9	9.7	10.6	10.4
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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1649.8	1655.6	1664.7	1674.1	1679.9	1691.0	1694.2	1699.4	1704.2	1715.3	1726.9
5°	1554.5	1563.8	1585.5	1597.4	1613.9	1633.1	1645.6	1658.8	1673.4	1698.4	1721.5
7.5°	1452.4	1467.8	1494.9	1517.1	1540.6	1568.1	1587.8	1613.9	1635.6	1670.9	1704.7
10°	1384.3	1406.1	1430.6	1456.9	1489.9	1518.9	1546.6	1579.6	1606.0	1648.2	1687.8
12.5°	1323.1	1326.4	1361.3	1390.4	1435.5	1471.4	1503.4	1545.8	1571.7	1621.9	1663.5
15°	1216.1	1235.9	1267.6	1290.6	1344.1	1389.6	1434.4	1478.7	1508.4	1570.4	1625.1
17.5°	1125.9	1144.2	1176.6	1214.4	1252.8	1298.1	1356.2	1402.8	1443.2	1514.1	1578.8
20°	1068.9	1091.3	1124.4	1163.3	1197.0	1246.4	1296.6	1350.0	1393.5	1473.4	1549.3
22.5°	1020.4	1038.0	1064.7	1103.1	1139.9	1185.2	1240.1	1298.3	1343.9	1430.1	1507.0
25°	952.1	966.6	983.8	1015.5	1057.0	1106.6	1149.4	1213.4	1280.0	1360.6	1453.6
27.5°	890.6	901.0	916.1	943.9	976.1	1022.4	1070.1	1130.8	1197.8	1285.2	1383.4
30°	853.2	859.8	874.9	898.0	929.7	966.0	1014.2	1072.2	1140.8	1229.2	1326.9
32.5°	820.4	826.5	836.4	858.4	885.9	916.9	960.3	1018.4	1083.8	1170.7	1278.8
35°	771.4	775.9	784.5	802.4	817.5	847.9	884.2	936.9	998.3	1081.5	1193.6
37.5°	722.4	728.8	734.0	741.5	761.0	781.0	812.5	857.1	917.3	1001.3	1108.1
40°	690.2	695.4	703.4	706.7	722.6	740.3	766.0	806.9	867.7	944.2	1048.4
42.5°	657.5	662.7	667.4	671.3	685.0	700.8	723.8	759.0	812.8	887.2	990.4
45°	612.9	613.6	618.3	625.5	632.1	643.3	659.9	690.2	731.8	801.7	895.4
47.5°	567.8	568.6	569.5	572.6	579.9	590.0	601.0	625.7	662.9	718.7	809.9
50°	537.8	536.4	537.8	540.4	545.0	553.6	566.1	583.9	614.3	666.4	750.2
52.5°	508.8	508.5	507.6	508.8	512.3	518.2	527.1	542.3	569.5	617.3	691.1
55°	464.5	461.2	461.8	459.3	465.2	466.5	473.1	485.6	509.4	542.3	611.7
57.5°	417.4	414.7	411.7	411.0	410.4	414.0	419.2	429.1	447.4	476.3	532.4
60°	387.3	384.0	380.0	378.8	378.8	380.7	383.4	390.6	407.8	433.5	479.7
62.5°	356.7	352.8	350.5	347.1	346.0	348.0	350.6	355.8	368.2	392.4	432.2
65°	309.4	304.9	301.5	300.9	299.5	297.6	298.9	304.2	314.1	333.2	364.9
67.5°	262.1	257.7	256.9	253.1	251.2	251.5	251.2	255.7	261.7	278.2	301.8
70°	230.9	227.6	226.4	223.0	221.7	220.4	219.0	223.0	228.9	242.8	263.3
72.5°	199.2	196.5	193.6	190.8	191.1	189.8	189.5	191.9	196.7	209.6	225.2
75°	153.8	154.4	151.1	147.8	147.1	145.9	145.9	147.8	149.8	159.7	172.2
77.5°	111.5	111.0	108.2	107.2	106.5	105.0	106.5	107.8	108.8	115.5	124.7
80°	85.2	85.2	81.8	81.8	81.2	79.2	81.2	79.8	82.5	89.1	95.7
82.5°	60.9	59.8	59.7	58.6	58.5	57.0	57.9	59.2	60.3	64.8	68.8
85°	29.7	29.7	29.0	28.4	29.0	28.4	29.0	29.7	30.4	32.4	35.6
87.5°	10.2	10.5	10.8	10.9	10.6	10.8	10.9	11.0	11.6	11.7	11.8
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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-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: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1725.9	1728.5	1736.9	1745.4	1754.9	1757.6	1761.8	1758.1	1757.0	1767.0	1774.4
5°	1730.7	1742.6	1765.7	1786.8	1804.7	1817.1	1830.4	1835.7	1845.6	1859.4	1876.5
7.5°	1725.2	1748.3	1784.6	1815.3	1848.8	1873.0	1891.9	1908.0	1927.5	1953.8	1982.4
10°	1718.8	1749.9	1794.1	1831.7	1872.6	1903.6	1929.3	1954.4	1983.5	2019.7	2057.4
12.5°	1707.3	1744.0	1799.3	1843.8	1896.4	1926.8	1961.5	2015.7	2046.8	2097.3	2150.3
15°	1683.9	1724.8	1802.0	1856.7	1916.2	1974.2	2038.2	2089.6	2141.1	2170.8	2245.4
17.5°	1649.2	1709.3	1794.8	1858.6	1934.1	2025.5	2097.5	2155.8	2215.2	2263.3	2300.7
20°	1621.2	1686.5	1784.2	1860.7	1950.4	2048.7	2131.2	2190.6	2242.1	2282.3	2305.4
22.5°	1585.8	1668.0	1763.1	1852.8	1967.4	2064.6	2151.3	2198.0	2241.0	2260.7	2269.5
25°	1530.2	1629.1	1736.6	1846.2	1975.6	2078.5	2157.7	2186.0	2198.6	2179.4	2147.8
27.5°	1470.1	1580.5	1706.2	1833.8	1970.5	2069.5	2126.2	2121.8	2100.5	2038.6	1989.1
30°	1425.2	1546.6	1681.9	1821.1	1958.3	2054.7	2087.7	2054.7	2006.6	1937.2	1866.6
32.5°	1378.3	1503.9	1656.0	1803.2	1936.2	2020.9	2028.1	1971.3	1896.8	1818.0	1729.9
35°	1307.1	1443.0	1607.3	1763.1	1889.1	1942.5	1910.9	1810.6	1722.2	1614.6	1494.5
37.5°	1226.8	1376.8	1541.6	1704.3	1818.5	1832.5	1753.9	1648.2	1523.5	1397.1	1255.8
40°	1166.6	1325.6	1495.2	1659.5	1760.4	1745.9	1645.6	1529.5	1381.0	1226.6	1095.3
42.5°	1112.8	1271.8	1444.5	1605.6	1686.5	1646.7	1529.5	1387.0	1227.4	1082.0	961.7
45°	1019.4	1183.1	1359.9	1515.6	1561.9	1489.9	1334.8	1176.5	1019.4	898.0	803.1
47.5°	928.9	1090.7	1265.8	1402.7	1419.0	1322.3	1152.9	989.9	854.9	756.0	689.0
50°	862.4	1024.7	1198.3	1320.3	1315.0	1198.3	1024.1	869.0	756.1	676.3	631.5
52.5°	802.7	956.1	1122.7	1233.7	1205.7	1078.4	912.1	774.5	681.7	619.3	578.7
55°	710.0	851.9	1010.2	1099.2	1047.8	906.6	766.0	655.2	586.6	539.8	508.1
57.5°	617.9	750.9	886.4	941.3	884.4	754.1	636.9	556.5	504.9	470.2	449.6
60°	560.9	677.0	797.7	845.2	777.3	661.2	568.8	496.9	455.3	426.9	408.5
62.5°	503.9	607.9	721.7	747.6	685.4	587.3	505.4	445.7	411.5	386.2	368.9
65°	426.3	511.3	597.8	614.9	557.6	481.6	417.0	378.1	347.8	329.2	315.4
67.5°	349.6	417.9	479.1	493.0	442.7	390.1	343.4	309.4	288.9	273.5	261.8
70°	304.2	358.3	408.5	419.7	379.4	332.5	297.0	269.8	251.4	238.2	227.0
72.5°	256.1	301.3	342.9	350.5	317.6	281.9	252.6	231.4	215.0	206.6	195.9
75°	196.0	222.4	254.7	256.7	234.9	213.1	190.7	176.8	168.2	157.7	152.4
77.5°	138.3	159.0	177.5	181.1	168.2	153.3	140.8	129.8	122.6	117.7	112.8
80°	105.6	122.1	130.0	134.6	125.4	114.8	107.5	100.3	95.7	92.4	89.1
82.5°	75.5	85.7	93.1	96.6	91.6	85.2	78.0	73.9	70.3	67.6	66.4
85°	38.2	42.9	47.5	48.8	47.5	44.9	40.9	40.9	38.9	38.2	38.2
87.5°	13.9	16.4	16.9	18.9	18.2	18.5	18.9	18.7	18.4	18.1	17.8
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



TEST NUMBER: P331456-935
 CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

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



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8	1716.8
2.5°	1780.7	1788.1	1788.1	1789.2	1797.6	1796.6	1796.0
5°	1895.1	1906.3	1907.5	1919.4	1927.3	1924.7	1917.4
7.5°	2002.9	2023.7	2039.5	2048.4	2058.8	2065.3	2062.4
10°	2088.4	2118.7	2137.2	2149.7	2164.9	2176.1	2172.1
12.5°	2165.9	2202.1	2227.5	2248.9	2250.9	2265.3	2255.6
15°	2287.0	2325.2	2329.2	2345.0	2357.6	2356.2	2356.9
17.5°	2326.9	2339.3	2341.7	2342.1	2342.3	2337.6	2327.6
20°	2312.7	2308.1	2296.9	2288.3	2273.1	2271.1	2258.0
22.5°	2245.1	2230.5	2202.4	2183.8	2160.2	2154.0	2150.3
25°	2112.1	2079.7	2034.9	1992.0	1980.1	1957.1	1963.7
27.5°	1929.6	1879.2	1830.7	1795.8	1764.3	1729.7	1739.6
30°	1801.3	1744.6	1675.9	1623.2	1589.5	1556.5	1550.6
32.5°	1648.2	1565.1	1488.6	1442.1	1390.5	1369.7	1346.9
35°	1384.3	1303.1	1227.3	1161.9	1124.4	1095.3	1068.9
37.5°	1146.9	1053.5	992.2	939.4	912.1	895.5	899.7
40°	999.6	917.8	873.0	832.7	807.6	795.7	798.4
42.5°	880.4	819.1	782.1	754.6	736.9	730.3	728.8
45°	744.9	710.7	680.3	664.4	655.9	648.6	644.0
47.5°	652.6	624.6	607.4	598.1	590.6	583.2	583.0
50°	597.1	578.7	566.8	556.9	551.0	545.7	550.3
52.5°	554.9	538.0	526.2	517.3	515.1	510.3	510.1
55°	492.2	479.1	470.5	462.5	458.6	455.9	452.6
57.5°	435.2	422.7	414.7	409.7	402.3	399.6	398.6
60°	394.6	384.7	376.8	370.1	366.9	361.6	361.6
62.5°	357.1	347.2	339.8	334.8	329.4	327.3	327.8
65°	302.9	295.0	287.7	282.4	281.1	277.2	278.4
67.5°	253.0	247.7	240.0	237.1	234.6	232.6	230.9
70°	219.7	214.5	210.5	206.6	204.6	204.6	204.6
72.5°	191.7	185.4	183.0	178.1	179.2	177.1	175.0
75°	148.4	144.5	142.5	140.5	137.2	137.2	137.2
77.5°	109.3	108.1	105.7	103.6	102.8	102.1	102.4
80°	84.5	83.8	82.5	82.5	81.2	80.5	79.2
82.5°	64.9	63.2	62.4	61.9	61.6	61.5	61.2
85°	36.9	35.6	35.6	36.2	35.0	35.0	35.6
87.5°	18.5	18.8	18.3	18.4	19.0	18.6	18.7
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



TEST NUMBER: P331456-935

CATALOG NUMBER: SA2XXDIP-C1005D1080U935-4F0-1E-UDD-A

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)