

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1000711

Luminaire Tested: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000711
REPORT IS A COMBINATION OF REPORTS P995324 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

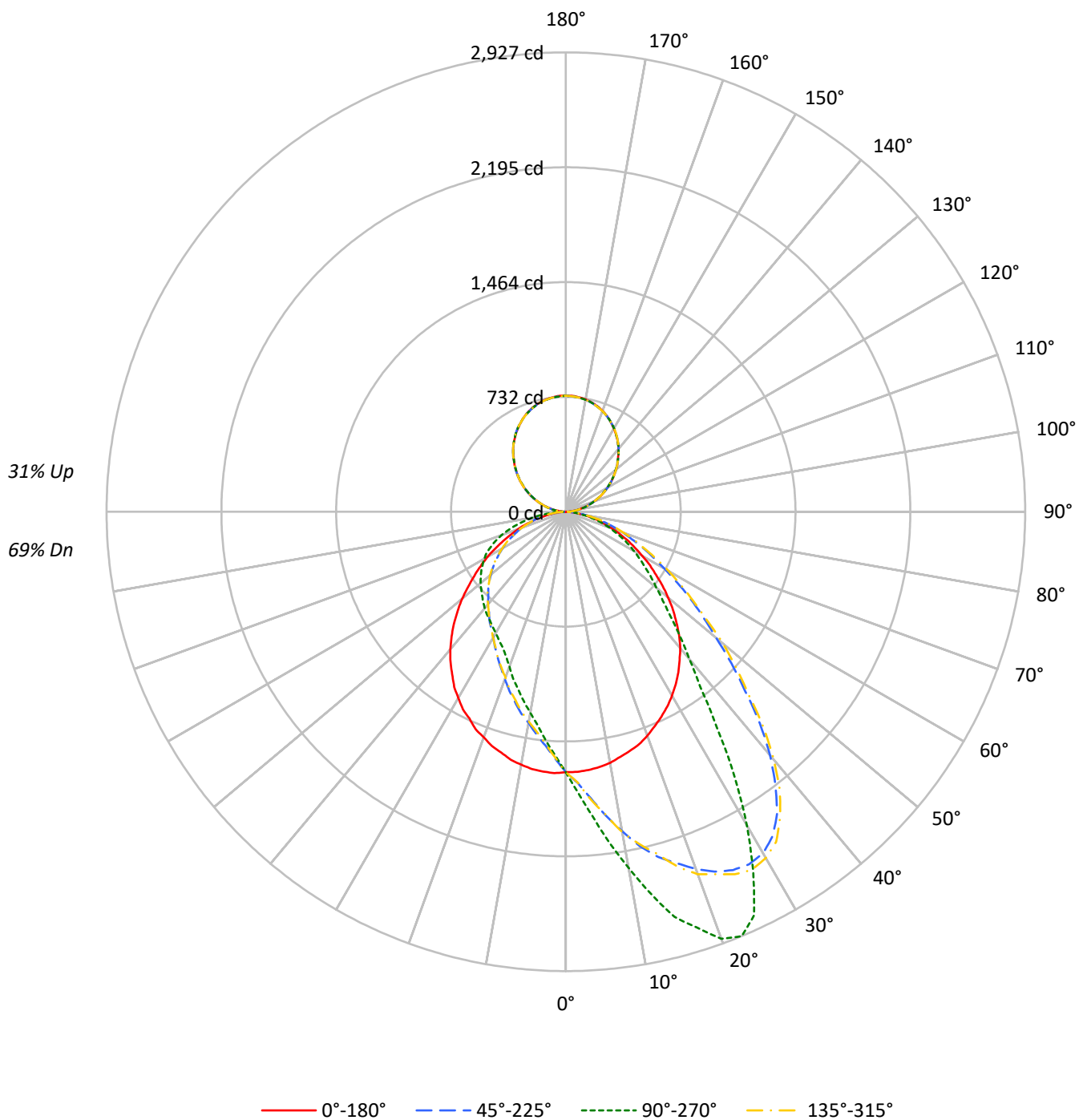
Lumens per Lamp: N/A
Luminaire Lumens: 6629.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	74	74	74
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	66	64	63
2	93	86	80	75	88	82	76	71	73	69	65	65	62	59	58	56	53
3	86	76	69	63	81	72	65	60	65	59	55	58	54	50	52	49	46
4	78	67	59	53	74	64	57	51	58	52	47	52	47	44	47	43	40
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28
8	57	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25
9	54	41	34	28	51	39	32	27	36	30	26	33	28	24	30	26	22
10	50	38	31	26	48	36	29	25	33	27	23	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13526	13526	13526	13526
5°	13492	15517	13570	11660
10°	13391	18104	13493	10229
15°	13230	20870	13322	9153
20°	13058	22631	13153	8206
25°	12809	22372	12931	7507
30°	12564	18491	12717	7148
35°	12222	13779	12356	6930
40°	11820	10380	11935	6823
45°	11209	8331	11349	6677
50°	10479	7019	10631	6609
55°	9620	6108	9771	6531
60°	8787	5380	9043	6423
65°	8003	4629	8078	6155
70°	7081	3808	7235	5667
75°	6179	2926	6138	4816
80°	4861	1923	4804	3655
85°	3202	864	2998	2132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 17489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.4
10°-20°	498.3	7.5
20°-30°	791.6	11.9
30°-40°	879.6	13.3
40°-50°	799.9	12.1
50°-60°	653.6	9.9
60°-70°	466.6	7.0
70°-80°	256.7	3.9
80°-90°	71.0	1.1
90°-100°	48.2	0.7
100°-110°	144.3	2.2
110°-120°	245.1	3.7
120°-130°	323.2	4.9
130°-140°	363.1	5.5
140°-150°	356.8	5.4
150°-160°	300.1	4.5
160°-170°	199.7	3.0
170°-180°	69.9	1.1
0°-30°	1451.2	21.9
0°-40°	2330.8	35.2
0°-60°	3784.3	57.1
0°-90°	4578.6	69.1
90°-120°	437.5	6.6
90°-150°	1480.7	22.3
90°-180°	2050.0	30.9
0°-180°	6629.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1659	1659	1659	1659	1659	
5°	1652	1946	1661	1462	1652	157
15°	1578	2673	1589	1172	1578	445
25°	1440	2838	1454	952	1440	664
35°	1249	1678	1263	844	1249	780
45°	996	941	1009	754	996	768
55°	701	616	712	658	701	630
65°	437	396	441	526	437	432
75°	214	198	213	326	214	225
85°	44	41	41	102	44	51
90°	2	17	2	17	2	5
95°	34	45	34	45	34	37
105°	133	140	133	140	133	141
115°	249	247	249	247	249	246
125°	363	360	363	360	363	323
135°	468	469	468	469	468	362
145°	569	569	569	569	569	356
155°	652	651	652	651	652	300
165°	709	708	709	708	709	200
175°	738	734	738	734	738	70
180°	739	739	739	739	739	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1658.7	1675.2	1682.0	1687.5	1705.4	1710.9	1712.3	1720.5	1727.4	1728.8	1728.8
5°	1651.8	1677.9	1698.5	1717.8	1746.6	1759.0	1774.1	1790.6	1812.6	1826.3	1833.2
7.5°	1640.8	1679.3	1710.9	1743.9	1783.7	1808.5	1822.2	1866.2	1896.4	1921.2	1951.4
10°	1624.3	1673.8	1719.1	1767.2	1823.6	1853.8	1884.0	1937.6	1980.2	2028.3	2066.8
12.5°	1599.6	1664.2	1719.1	1786.5	1856.6	1892.3	1928.0	2021.5	2070.9	2113.5	2182.3
15°	1577.6	1642.2	1720.5	1789.2	1875.8	1929.4	1981.6	2042.1	2120.4	2212.5	2278.4
17.5°	1552.9	1633.9	1706.8	1803.0	1899.2	1950.0	1992.6	2086.1	2196.0	2286.7	2347.2
20°	1518.5	1601.0	1697.2	1798.8	1912.9	1952.8	2009.1	2134.2	2233.1	2322.4	2421.4
22.5°	1478.7	1574.9	1676.5	1774.1	1892.3	1976.1	2038.0	2147.9	2267.5	2370.5	2481.8
25°	1440.2	1544.6	1633.9	1767.2	1892.3	1948.6	2018.7	2149.3	2279.8	2404.9	2518.9
27.5°	1399.0	1496.5	1617.5	1723.3	1864.8	1926.6	2002.2	2145.1	2283.9	2409.0	2531.3
30°	1353.6	1458.0	1558.4	1683.4	1820.8	1900.5	1970.6	2125.9	2267.5	2398.0	2512.1
32.5°	1302.8	1401.7	1508.9	1627.1	1771.4	1852.4	1940.4	2099.8	2251.0	2363.6	2451.6
35°	1249.2	1349.5	1442.9	1563.9	1712.3	1793.4	1878.6	2054.5	2204.2	2296.3	2347.2
37.5°	1190.1	1284.9	1377.0	1496.5	1644.9	1731.5	1818.1	1988.5	2130.0	2207.0	2193.2
40°	1133.7	1218.9	1304.1	1416.8	1572.1	1664.2	1739.8	1911.5	2035.2	2068.2	2022.8
42.5°	1069.1	1142.0	1224.4	1339.9	1491.0	1577.6	1672.4	1829.1	1921.2	1907.4	1830.5
45°	996.3	1060.9	1143.3	1251.9	1405.8	1495.1	1574.9	1723.3	1790.6	1756.2	1616.1
47.5°	926.2	989.4	1056.8	1165.3	1315.1	1390.7	1471.8	1605.1	1643.6	1570.7	1430.6
50°	850.6	902.9	972.9	1076.0	1216.2	1295.9	1363.2	1470.4	1484.2	1394.8	1249.2
52.5°	777.8	821.8	889.1	990.8	1121.4	1184.6	1250.5	1345.4	1334.4	1242.3	1102.1
55°	700.8	742.1	803.9	897.4	1012.8	1073.3	1129.6	1213.4	1190.1	1095.2	972.9
57.5°	636.3	665.1	725.6	812.2	907.0	972.9	1021.0	1087.0	1051.3	956.5	842.4
60°	562.1	597.8	648.6	718.7	812.2	856.1	898.7	942.7	918.0	827.3	725.6
62.5°	494.7	522.2	566.2	633.5	706.3	746.2	791.5	819.0	794.3	710.5	625.3
65°	437.0	459.0	493.3	548.3	618.4	651.4	677.5	703.6	683.0	604.7	542.8
67.5°	373.8	393.0	421.9	465.9	525.0	548.3	573.0	590.9	567.6	515.3	454.9
70°	317.4	331.2	358.7	391.7	432.9	454.9	475.5	493.3	472.7	428.8	383.4
72.5°	259.7	270.7	295.5	318.8	355.9	371.0	386.2	399.9	393.0	351.8	314.7
75°	214.4	218.5	235.0	254.2	277.6	294.1	305.1	313.3	307.8	274.8	251.5
77.5°	162.2	167.7	180.0	195.1	215.8	225.4	232.2	240.5	233.6	207.5	191.0
80°	118.2	119.6	126.4	140.2	153.9	155.3	162.2	173.2	169.0	151.2	138.8
82.5°	75.6	79.7	82.5	90.7	100.3	103.1	107.2	109.9	108.6	97.6	93.4
85°	44.0	44.0	46.7	52.2	55.0	59.1	60.5	61.8	64.6	57.7	53.6
87.5°	19.2	20.6	20.6	22.0	24.7	24.7	26.1	27.5	28.9	27.5	23.4
90°	1.7	3.1	4.5	5.9	7.3	8.0	8.5	9.5	10.6	11.6	12.6
92.5°	14.9	16.5	18.2	19.8	21.5	22.3	22.6	23.2	23.9	24.5	25.1
95°	34.3	35.4	36.6	37.7	38.8	39.4	39.8	40.7	41.6	42.5	43.4
97.5°	54.9	55.9	56.9	57.9	58.9	59.4	59.9	60.9	62.0	63.0	64.0
100°	80.0	80.5	81.0	81.5	82.0	82.3	82.9	84.0	85.1	86.3	87.4
102.5°	106.3	106.4	106.6	106.7	106.8	106.9	107.4	108.4	109.4	110.4	111.4
105°	133.2	133.3	133.4	133.5	133.6	133.7	134.0	134.5	135.0	135.5	136.0
107.5°	161.2	161.3	161.4	161.5	161.6	161.7	161.8	161.9	162.0	162.2	162.3
110°	189.7	190.0	190.2	190.5	190.8	190.9	190.8	190.7	190.6	190.4	190.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	219.5	219.5	219.5	219.5	219.5	219.5	219.4	219.1	218.8	218.6	218.3
115°	249.2	249.2	249.2	249.2	249.2	249.2	249.1	248.8	248.5	248.3	248.0
117.5°	277.2	277.2	277.2	277.2	277.2	277.2	277.1	277.0	276.9	276.7	276.6
120°	305.2	305.7	306.2	306.7	307.2	307.5	307.3	306.9	306.6	306.2	305.8
122.5°	334.3	334.4	334.6	334.7	334.8	334.9	334.8	334.7	334.6	334.4	334.3
125°	362.9	362.9	362.9	362.9	362.9	362.9	362.8	362.7	362.6	362.4	362.3
127.5°	388.6	389.0	389.4	389.8	390.2	390.4	390.3	390.0	389.7	389.5	389.2
130°	416.1	416.5	416.9	417.2	417.6	417.8	417.8	417.8	417.8	417.8	417.8
132.5°	444.1	444.3	444.6	444.8	445.1	445.2	445.1	445.0	444.9	444.8	444.7
135°	468.1	468.9	469.6	470.4	471.1	471.5	471.5	471.5	471.5	471.5	471.5
137.5°	494.9	495.3	495.7	496.1	496.5	496.7	496.8	497.1	497.3	497.6	497.8
140°	521.8	522.0	522.3	522.5	522.8	522.9	522.9	522.9	522.9	522.9	522.9
142.5°	546.4	546.6	546.9	547.1	547.4	547.5	547.4	547.3	547.2	547.1	547.0
145°	568.7	569.2	569.7	570.2	570.7	571.0	571.1	571.2	571.3	571.4	571.5
147.5°	591.5	592.1	592.8	593.4	594.1	594.4	594.3	594.2	594.1	593.9	593.8
150°	612.1	612.6	613.1	613.6	614.1	614.4	614.4	614.4	614.4	614.4	614.4
152.5°	631.5	631.8	632.0	632.3	632.6	632.7	632.8	632.9	633.0	633.2	633.3
155°	651.5	651.5	651.5	651.5	651.5	651.5	651.4	651.3	651.2	651.1	651.0
157.5°	668.7	668.4	668.2	667.9	667.6	667.5	667.5	667.5	667.5	667.5	667.5
160°	683.5	683.4	683.3	683.2	683.1	683.0	682.9	682.8	682.7	682.5	682.4
162.5°	697.3	696.9	696.5	696.2	695.8	695.6	695.5	695.4	695.3	695.1	695.0
165°	709.3	708.9	708.5	708.2	707.8	707.6	707.5	707.2	706.9	706.7	706.4
167.5°	719.0	718.5	718.0	717.5	717.0	716.7	716.7	716.7	716.7	716.7	716.7
170°	727.0	726.4	725.7	725.1	724.4	724.1	724.2	724.3	724.4	724.6	724.7
172.5°	732.7	732.2	731.7	731.2	730.7	730.4	730.4	730.4	730.4	730.4	730.4
175°	737.8	737.2	736.6	735.9	735.3	735.0	734.9	734.8	734.7	734.5	734.4
177.5°	740.1	739.5	738.9	738.2	737.6	737.3	737.3	737.3	737.3	737.3	737.3
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1732.9	1757.6	1768.6	1771.4	1786.5	1776.9	1781.0	1779.6	1790.6	1792.0	1792.0
5°	1859.3	1888.2	1897.8	1911.5	1932.1	1937.6	1933.5	1941.8	1956.9	1945.9	1962.4
7.5°	1992.6	2024.2	2046.2	2076.4	2083.3	2101.2	2112.2	2121.8	2124.5	2125.9	2128.7
10°	2116.3	2156.1	2186.4	2237.2	2248.2	2257.8	2305.9	2286.7	2311.4	2303.2	2305.9
12.5°	2216.6	2294.9	2319.7	2404.9	2413.1	2446.1	2443.4	2473.6	2479.1	2490.1	2479.1
15°	2348.5	2439.2	2479.1	2527.2	2554.7	2593.1	2600.0	2641.2	2657.7	2672.8	2657.7
17.5°	2469.5	2517.6	2619.3	2657.7	2675.6	2696.2	2748.4	2763.5	2788.3	2778.7	2806.1
20°	2529.9	2598.6	2705.8	2771.8	2799.3	2818.5	2862.5	2885.9	2895.5	2895.5	2898.2
22.5°	2583.5	2682.5	2762.2	2837.8	2862.5	2876.2	2902.3	2920.2	2924.3	2927.1	2929.8
25°	2631.6	2720.9	2785.5	2828.1	2837.8	2837.8	2852.9	2841.9	2824.0	2837.8	2846.0
27.5°	2631.6	2694.8	2723.7	2738.8	2738.8	2701.7	2679.7	2634.4	2595.9	2584.9	2609.6
30°	2587.6	2616.5	2576.7	2539.5	2510.7	2486.0	2399.4	2330.7	2316.9	2307.3	2344.4
32.5°	2486.0	2448.9	2370.5	2263.3	2220.7	2164.4	2097.1	2044.8	2013.2	2002.2	1994.0
35°	2305.9	2209.7	2108.0	1963.8	1933.5	1862.1	1770.0	1731.5	1679.3	1677.9	1695.8
37.5°	2109.4	1961.0	1851.1	1713.6	1671.0	1595.5	1508.9	1469.0	1433.3	1405.8	1438.8
40°	1879.9	1750.7	1583.1	1470.4	1409.9	1370.1	1297.3	1253.3	1236.8	1223.1	1243.7
42.5°	1665.5	1524.0	1393.5	1278.0	1228.5	1183.2	1135.1	1092.5	1080.1	1078.8	1093.9
45°	1452.5	1313.7	1192.8	1093.9	1062.3	1034.8	988.1	975.7	955.1	941.3	948.2
47.5°	1282.1	1139.2	1038.9	963.3	935.8	912.5	882.2	861.6	843.8	838.3	846.5
50°	1114.5	1018.3	915.2	852.0	831.4	809.4	786.1	766.8	758.6	753.1	758.6
52.5°	979.8	876.7	806.7	755.8	735.2	718.7	702.2	694.0	683.0	685.7	691.2
55°	858.9	768.2	709.1	672.0	659.6	652.8	632.1	622.5	618.4	615.6	618.4
57.5°	744.8	678.9	634.9	603.3	586.8	582.7	566.2	566.2	562.1	557.9	559.3
60°	654.1	597.8	555.2	530.4	527.7	520.8	509.8	508.5	498.8	503.0	504.3
62.5°	562.1	516.7	487.8	472.7	463.1	460.4	453.5	452.1	448.0	449.4	446.6
65°	489.2	452.1	423.3	410.9	406.8	405.4	399.9	395.8	393.0	395.8	393.0
67.5°	416.4	391.7	369.7	357.3	351.8	350.4	346.3	343.6	344.9	340.8	343.6
70°	347.7	322.9	309.2	302.3	299.6	295.5	295.5	295.5	295.5	292.7	291.3
72.5°	292.7	268.0	258.4	254.2	251.5	250.1	246.0	247.4	246.0	244.6	250.1
75°	232.2	217.1	207.5	203.4	206.1	202.0	197.9	200.6	196.5	197.9	203.4
77.5°	175.9	169.0	163.5	160.8	158.0	155.3	155.3	152.5	152.5	152.5	152.5
80°	127.8	126.4	116.8	115.4	115.4	112.7	112.7	112.7	112.7	111.3	112.7
82.5°	85.2	83.8	81.1	79.7	77.0	78.3	78.3	75.6	75.6	74.2	75.6
85°	49.5	49.5	46.7	45.3	44.0	45.3	42.6	41.2	42.6	41.2	42.6
87.5°	23.4	20.6	22.0	20.6	17.9	19.2	16.5	17.9	16.5	15.1	17.9
90°	13.4	14.1	14.9	15.6	16.0	16.1	16.4	16.6	16.9	17.1	16.9
92.5°	25.5	25.9	26.3	26.7	26.9	27.0	27.1	27.2	27.3	27.4	27.3
95°	43.8	44.2	44.6	45.0	45.2	45.2	45.2	45.2	45.2	45.2	45.2
97.5°	64.5	65.0	65.5	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3
100°	87.7	87.9	88.2	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
102.5°	111.8	112.2	112.6	113.0	113.2	113.3	113.4	113.5	113.6	113.7	113.6
105°	136.4	136.8	137.1	137.5	137.7	137.9	138.3	138.7	139.1	139.5	139.1
107.5°	162.8	163.3	163.8	164.3	164.6	164.5	164.4	164.3	164.1	164.0	164.1
110°	190.1	189.8	189.6	189.3	189.2	189.4	189.8	190.1	190.5	190.9	190.5

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3
115°	247.9	247.8	247.7	247.6	247.5	247.4	247.3	247.2	247.0	246.9	247.0
117.5°	276.2	275.8	275.5	275.1	274.9	274.7	274.3	274.0	273.6	273.2	273.6
120°	305.2	304.5	303.9	303.2	302.9	303.0	303.3	303.6	303.8	304.1	303.8
122.5°	333.9	333.5	333.2	332.8	332.6	332.3	331.7	331.0	330.4	329.8	330.4
125°	362.1	361.8	361.6	361.3	361.2	361.1	360.8	360.6	360.3	360.1	360.3
127.5°	389.0	388.7	388.5	388.2	388.1	388.0	387.9	387.8	387.6	387.5	387.6
130°	417.5	417.3	417.0	416.7	416.6	416.4	415.9	415.4	414.9	414.4	414.9
132.5°	444.4	444.2	443.9	443.6	443.5	443.4	443.3	443.2	443.0	442.9	443.0
135°	471.3	471.0	470.8	470.5	470.4	470.2	469.8	469.5	469.1	468.7	469.1
137.5°	497.4	497.0	496.7	496.3	496.1	496.2	496.3	496.4	496.6	496.7	496.6
140°	522.8	522.7	522.6	522.5	522.4	522.3	522.2	522.1	521.9	521.8	521.9
142.5°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
145°	571.4	571.3	571.2	571.1	571.0	570.8	570.4	570.0	569.6	569.2	569.6
147.5°	593.7	593.5	593.4	593.3	593.2	593.1	593.0	592.9	592.8	592.7	592.8
150°	614.4	614.4	614.4	614.4	614.4	614.3	614.2	614.1	613.9	613.8	613.9
152.5°	633.7	634.1	634.4	634.8	635.0	634.8	634.4	634.1	633.7	633.3	633.7
155°	651.5	652.0	652.5	653.0	653.3	653.0	652.5	652.0	651.5	651.0	651.5
157.5°	667.9	668.3	668.7	669.1	669.3	669.1	668.7	668.3	667.9	667.5	667.9
160°	682.8	683.2	683.5	683.9	684.1	683.8	683.2	682.5	681.9	681.3	681.9
162.5°	695.8	696.5	697.3	698.0	698.4	698.1	697.5	696.8	696.2	695.6	696.2
165°	707.2	707.9	708.7	709.4	709.8	709.6	709.1	708.6	708.1	707.6	708.1
167.5°	717.5	718.2	719.0	719.7	720.1	719.7	719.0	718.2	717.5	716.7	717.5
170°	725.5	726.2	727.0	727.7	728.1	727.7	726.8	725.9	725.0	724.1	725.0
172.5°	731.3	732.2	733.1	734.0	734.4	734.0	733.1	732.2	731.3	730.4	731.3
175°	735.3	736.2	737.1	738.0	738.4	738.0	737.1	736.2	735.3	734.4	735.3
177.5°	738.2	739.1	740.0	740.9	741.3	740.8	739.8	738.7	737.7	736.7	737.7
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1789.2	1785.1	1779.6	1779.6	1772.7	1772.7	1761.7	1742.5	1726.0	1720.5	1723.3
5°	1941.8	1943.1	1934.9	1928.0	1915.7	1906.0	1888.2	1853.8	1842.8	1820.8	1805.7
7.5°	2116.3	2110.8	2095.7	2084.7	2081.9	2059.9	2021.5	1980.2	1947.3	1925.3	1893.7
10°	2312.8	2290.8	2268.8	2262.0	2245.5	2208.4	2164.4	2119.0	2073.7	2025.6	1972.0
12.5°	2477.7	2435.1	2433.7	2417.2	2385.6	2365.0	2312.8	2248.2	2169.9	2116.3	2055.8
15°	2655.0	2615.1	2582.1	2551.9	2536.8	2476.3	2432.4	2351.3	2257.8	2200.1	2158.9
17.5°	2781.4	2763.5	2707.2	2693.5	2672.8	2602.8	2532.7	2453.0	2371.9	2290.8	2179.5
20°	2883.1	2872.1	2835.0	2815.8	2782.8	2727.8	2642.6	2550.5	2457.1	2341.7	2237.2
22.5°	2927.1	2913.3	2883.1	2866.6	2846.0	2799.3	2726.4	2622.0	2499.7	2396.6	2285.3
25°	2840.5	2865.2	2857.0	2850.1	2841.9	2814.4	2759.4	2667.4	2547.8	2431.0	2292.2
27.5°	2645.4	2688.0	2729.2	2734.7	2748.4	2759.4	2737.4	2671.5	2571.2	2447.5	2294.9
30°	2382.9	2402.1	2486.0	2510.7	2529.9	2600.0	2641.2	2624.8	2547.8	2436.5	2296.3
32.5°	2046.2	2097.1	2182.3	2241.3	2293.6	2371.9	2479.1	2521.7	2494.2	2403.5	2264.7
35°	1727.4	1787.9	1886.8	1962.4	2014.6	2125.9	2252.3	2344.4	2378.8	2333.4	2209.7
37.5°	1466.3	1539.1	1627.1	1655.9	1716.4	1853.8	2028.3	2156.1	2240.0	2244.1	2147.9
40°	1269.8	1306.9	1377.0	1420.9	1480.0	1595.5	1765.9	1934.9	2061.3	2103.9	2053.1
42.5°	1103.5	1132.4	1184.6	1238.2	1291.8	1379.7	1536.4	1694.4	1864.8	1950.0	1948.6
45°	971.6	1001.8	1037.5	1081.5	1118.6	1213.4	1337.1	1499.3	1646.3	1778.2	1811.2
47.5°	856.1	882.2	926.2	945.5	970.2	1059.5	1166.7	1317.9	1470.4	1621.6	1660.1
50°	770.9	792.9	823.2	835.5	863.0	929.0	1016.9	1139.2	1308.3	1447.0	1518.5
52.5°	694.0	710.5	733.8	743.5	762.7	812.2	891.9	988.1	1128.2	1271.1	1371.5
55°	628.0	639.0	655.5	666.5	680.2	724.2	783.3	869.9	990.8	1114.5	1212.1
57.5°	566.2	574.4	590.9	596.4	607.4	641.8	683.0	755.8	867.1	977.1	1071.9
60°	508.5	514.0	523.6	535.9	544.2	567.6	606.0	666.5	755.8	856.1	933.1
62.5°	453.5	461.7	464.5	470.0	476.9	498.8	529.1	573.0	651.4	733.8	814.9
65°	397.1	404.0	409.5	410.9	417.8	434.3	461.7	500.2	551.1	622.5	698.1
67.5°	344.9	349.1	351.8	357.3	364.2	372.4	394.4	423.3	470.0	527.7	588.2
70°	296.8	296.8	301.0	302.3	310.6	320.2	329.8	357.3	398.5	445.2	486.5
72.5°	244.6	251.5	250.1	257.0	255.6	262.5	274.8	292.7	322.9	360.0	399.9
75°	199.3	203.4	203.4	203.4	206.1	211.6	218.5	235.0	258.4	288.6	311.9
77.5°	155.3	158.0	158.0	158.0	159.4	164.9	171.8	182.8	199.3	217.1	230.9
80°	111.3	114.1	114.1	116.8	116.8	118.2	125.1	130.6	138.8	152.5	166.3
82.5°	75.6	77.0	79.7	79.7	78.3	81.1	82.5	87.9	96.2	98.9	108.6
85°	41.2	42.6	44.0	44.0	45.3	48.1	46.7	52.2	52.2	57.7	60.5
87.5°	16.5	19.2	19.2	17.9	19.2	19.2	19.2	22.0	23.4	24.7	23.4
90°	16.6	16.4	16.1	16.0	15.6	14.9	14.1	13.4	12.6	11.6	10.6
92.5°	27.2	27.1	27.0	26.9	26.7	26.3	25.9	25.5	25.1	24.5	23.9
95°	45.2	45.2	45.2	45.2	45.0	44.6	44.2	43.8	43.4	42.5	41.6
97.5°	66.3	66.3	66.3	66.3	66.0	65.5	65.0	64.5	64.0	63.0	62.0
100°	88.6	88.6	88.6	88.6	88.5	88.2	87.9	87.7	87.4	86.3	85.1
102.5°	113.5	113.4	113.3	113.2	113.0	112.6	112.2	111.8	111.4	110.4	109.4
105°	138.7	138.3	137.9	137.7	137.5	137.1	136.8	136.4	136.0	135.5	135.0
107.5°	164.3	164.4	164.5	164.6	164.3	163.8	163.3	162.8	162.3	162.2	162.0
110°	190.1	189.8	189.4	189.2	189.3	189.6	189.8	190.1	190.3	190.4	190.6

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.6	218.8
115°	247.2	247.3	247.4	247.5	247.6	247.7	247.8	247.9	248.0	248.3	248.5
117.5°	274.0	274.3	274.7	274.9	275.1	275.5	275.8	276.2	276.6	276.7	276.9
120°	303.6	303.3	303.0	302.9	303.2	303.9	304.5	305.2	305.8	306.2	306.6
122.5°	331.0	331.7	332.3	332.6	332.8	333.2	333.5	333.9	334.3	334.4	334.6
125°	360.6	360.8	361.1	361.2	361.3	361.6	361.8	362.1	362.3	362.4	362.6
127.5°	387.8	387.9	388.0	388.1	388.2	388.5	388.7	389.0	389.2	389.5	389.7
130°	415.4	415.9	416.4	416.6	416.7	417.0	417.3	417.5	417.8	417.8	417.8
132.5°	443.2	443.3	443.4	443.5	443.6	443.9	444.2	444.4	444.7	444.8	444.9
135°	469.5	469.8	470.2	470.4	470.5	470.8	471.0	471.3	471.5	471.5	471.5
137.5°	496.4	496.3	496.2	496.1	496.3	496.7	497.0	497.4	497.8	497.6	497.3
140°	522.1	522.2	522.3	522.4	522.5	522.6	522.7	522.8	522.9	522.9	522.9
142.5°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.1	547.2
145°	570.0	570.4	570.8	571.0	571.1	571.2	571.3	571.4	571.5	571.4	571.3
147.5°	592.9	593.0	593.1	593.2	593.3	593.4	593.5	593.7	593.8	593.9	594.1
150°	614.1	614.2	614.3	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
152.5°	634.1	634.4	634.8	635.0	634.8	634.4	634.1	633.7	633.3	633.2	633.0
155°	652.0	652.5	653.0	653.3	653.0	652.5	652.0	651.5	651.0	651.1	651.2
157.5°	668.3	668.7	669.1	669.3	669.1	668.7	668.3	667.9	667.5	667.5	667.5
160°	682.5	683.2	683.8	684.1	683.9	683.5	683.2	682.8	682.4	682.5	682.7
162.5°	696.8	697.5	698.1	698.4	698.0	697.3	696.5	695.8	695.0	695.1	695.3
165°	708.6	709.1	709.6	709.8	709.4	708.7	707.9	707.2	706.4	706.7	706.9
167.5°	718.2	719.0	719.7	720.1	719.7	719.0	718.2	717.5	716.7	716.7	716.7
170°	725.9	726.8	727.7	728.1	727.7	727.0	726.2	725.5	724.7	724.6	724.4
172.5°	732.2	733.1	734.0	734.4	734.0	733.1	732.2	731.3	730.4	730.4	730.4
175°	736.2	737.1	738.0	738.4	738.0	737.1	736.2	735.3	734.4	734.5	734.7
177.5°	738.7	739.8	740.8	741.3	740.9	740.0	739.1	738.2	737.3	737.3	737.3
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1710.9	1705.4	1701.3	1701.3	1688.9	1676.5	1669.7	1666.9	1664.2	1653.2	1638.1
5°	1781.0	1763.1	1750.7	1738.4	1717.8	1695.8	1673.8	1661.4	1643.6	1618.8	1601.0
7.5°	1859.3	1816.7	1803.0	1787.9	1746.6	1709.5	1679.3	1653.2	1624.3	1592.7	1561.1
10°	1925.3	1879.9	1849.7	1823.6	1770.0	1720.5	1675.2	1636.7	1599.6	1558.4	1519.9
12.5°	1988.5	1923.9	1892.3	1853.8	1797.5	1726.0	1666.9	1618.8	1563.9	1521.3	1474.5
15°	2076.4	1967.9	1915.7	1890.9	1815.3	1731.5	1660.1	1588.6	1543.2	1478.7	1437.4
17.5°	2090.2	2002.2	1967.9	1904.7	1814.0	1719.1	1636.7	1565.2	1496.5	1438.8	1385.2
20°	2138.3	2022.8	1967.9	1928.0	1808.5	1712.3	1621.6	1529.5	1463.5	1401.7	1341.2
22.5°	2168.5	2038.0	1980.2	1917.0	1803.0	1687.5	1580.3	1500.6	1419.6	1356.3	1308.3
25°	2160.3	2029.7	1965.1	1906.0	1767.2	1651.8	1555.6	1453.9	1378.3	1309.6	1246.4
27.5°	2156.1	2009.1	1940.4	1874.4	1743.9	1622.9	1502.0	1419.6	1335.7	1256.0	1209.3
30°	2145.1	1983.0	1903.3	1831.8	1695.8	1569.4	1466.3	1370.1	1286.3	1213.4	1151.6
32.5°	2108.0	1939.0	1862.1	1785.1	1643.6	1517.1	1412.7	1323.4	1239.5	1164.0	1104.9
35°	2058.6	1886.8	1803.0	1721.9	1580.3	1452.5	1356.3	1262.9	1184.6	1111.7	1055.4
37.5°	2009.1	1826.3	1748.0	1654.6	1524.0	1390.7	1291.8	1207.9	1135.1	1059.5	997.7
40°	1937.6	1754.9	1668.3	1588.6	1436.1	1311.0	1220.3	1144.7	1073.3	1001.8	949.6
42.5°	1840.1	1676.5	1587.2	1499.3	1356.3	1232.7	1144.7	1077.4	1010.0	951.0	893.2
45°	1741.1	1581.7	1502.0	1423.7	1268.4	1151.6	1070.5	1008.7	952.3	887.7	841.0
47.5°	1621.6	1486.9	1407.2	1330.2	1183.2	1066.4	992.2	934.5	882.2	828.7	784.7
50°	1499.3	1382.5	1309.6	1229.9	1089.8	983.9	911.1	863.0	820.4	769.6	733.8
52.5°	1367.3	1265.7	1203.8	1126.9	1003.2	905.6	831.4	783.3	747.6	710.5	678.9
55°	1227.2	1153.0	1087.0	1025.2	908.4	820.4	754.4	711.8	687.1	652.8	625.3
57.5°	1100.7	1029.3	989.4	919.3	817.7	731.1	678.9	643.1	614.3	593.7	571.7
60°	968.8	911.1	867.1	816.3	727.0	654.1	599.2	578.5	548.3	533.2	523.6
62.5°	842.4	801.2	759.9	721.5	641.8	573.0	531.8	505.7	487.8	472.7	464.5
65°	722.8	684.4	655.5	621.1	555.2	500.2	461.7	441.1	423.3	419.1	409.5
67.5°	606.0	589.5	557.9	530.4	474.1	431.5	402.6	376.5	366.9	362.8	354.5
70°	507.1	487.8	463.1	439.7	397.1	360.0	333.9	324.3	310.6	309.2	299.6
72.5°	417.8	394.4	376.5	358.7	327.1	294.1	280.3	266.6	259.7	254.2	250.1
75°	331.2	314.7	302.3	287.2	259.7	237.7	218.5	213.0	208.9	207.5	204.8
77.5°	247.4	236.4	230.9	215.8	196.5	177.3	169.0	160.8	160.8	158.0	159.4
80°	175.9	169.0	162.2	153.9	137.4	129.2	122.3	116.8	114.1	112.7	114.1
82.5°	111.3	107.2	105.8	100.3	89.3	85.2	79.7	75.6	75.6	75.6	75.6
85°	61.8	61.8	61.8	53.6	49.5	45.3	42.6	41.2	41.2	41.2	42.6
87.5°	26.1	26.1	22.0	22.0	20.6	17.9	16.5	16.5	17.9	17.9	19.2
90°	9.5	8.5	8.0	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	23.2	22.6	22.3	21.5	19.8	18.2	16.5	14.9	16.5	18.2	19.8
95°	40.7	39.8	39.4	38.8	37.7	36.6	35.4	34.3	35.4	36.6	37.7
97.5°	60.9	59.9	59.4	58.9	57.9	56.9	55.9	54.9	55.9	56.9	57.9
100°	84.0	82.9	82.3	82.0	81.5	81.0	80.5	80.0	80.5	81.0	81.5
102.5°	108.4	107.4	106.9	106.8	106.7	106.6	106.4	106.3	106.4	106.6	106.7
105°	134.5	134.0	133.7	133.6	133.5	133.4	133.3	133.2	133.3	133.4	133.5
107.5°	161.9	161.8	161.7	161.6	161.5	161.4	161.3	161.2	161.3	161.4	161.5
110°	190.7	190.8	190.9	190.8	190.5	190.2	190.0	189.7	190.0	190.2	190.5

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	219.1	219.4	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5
115°	248.8	249.1	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
117.5°	277.0	277.1	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2	277.2
120°	306.9	307.3	307.5	307.2	306.7	306.2	305.7	305.2	305.7	306.2	306.7
122.5°	334.7	334.8	334.9	334.8	334.7	334.6	334.4	334.3	334.4	334.6	334.7
125°	362.7	362.8	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9	362.9
127.5°	390.0	390.3	390.4	390.2	389.8	389.4	389.0	388.6	389.0	389.4	389.8
130°	417.8	417.8	417.8	417.6	417.2	416.9	416.5	416.1	416.5	416.9	417.2
132.5°	445.0	445.1	445.2	445.1	444.8	444.6	444.3	444.1	444.3	444.6	444.8
135°	471.5	471.5	471.5	471.1	470.4	469.6	468.9	468.1	468.9	469.6	470.4
137.5°	497.1	496.8	496.7	496.5	496.1	495.7	495.3	494.9	495.3	495.7	496.1
140°	522.9	522.9	522.9	522.8	522.5	522.3	522.0	521.8	522.0	522.3	522.5
142.5°	547.3	547.4	547.5	547.4	547.1	546.9	546.6	546.4	546.6	546.9	547.1
145°	571.2	571.1	571.0	570.7	570.2	569.7	569.2	568.7	569.2	569.7	570.2
147.5°	594.2	594.3	594.4	594.1	593.4	592.8	592.1	591.5	592.1	592.8	593.4
150°	614.4	614.4	614.4	614.1	613.6	613.1	612.6	612.1	612.6	613.1	613.6
152.5°	632.9	632.8	632.7	632.6	632.3	632.0	631.8	631.5	631.8	632.0	632.3
155°	651.3	651.4	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5	651.5
157.5°	667.5	667.5	667.5	667.6	667.9	668.2	668.4	668.7	668.4	668.2	667.9
160°	682.8	682.9	683.0	683.1	683.2	683.3	683.4	683.5	683.4	683.3	683.2
162.5°	695.4	695.5	695.6	695.8	696.2	696.5	696.9	697.3	696.9	696.5	696.2
165°	707.2	707.5	707.6	707.8	708.2	708.5	708.9	709.3	708.9	708.5	708.2
167.5°	716.7	716.7	716.7	717.0	717.5	718.0	718.5	719.0	718.5	718.0	717.5
170°	724.3	724.2	724.1	724.4	725.1	725.7	726.4	727.0	726.4	725.7	725.1
172.5°	730.4	730.4	730.4	730.7	731.2	731.7	732.2	732.7	732.2	731.7	731.2
175°	734.8	734.9	735.0	735.3	735.9	736.6	737.2	737.8	737.2	736.6	735.9
177.5°	737.3	737.3	737.3	737.6	738.2	738.9	739.5	740.1	739.5	738.9	738.2
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1633.9	1628.4	1631.2	1617.5	1605.1	1587.2	1572.1	1569.4	1566.6	1574.9	1569.4
5°	1587.2	1580.3	1573.5	1557.0	1532.2	1517.1	1495.1	1493.8	1485.5	1473.2	1475.9
7.5°	1536.4	1532.2	1522.6	1496.5	1474.5	1448.4	1430.6	1415.4	1408.6	1397.6	1393.5
10°	1495.1	1480.0	1471.8	1442.9	1416.8	1389.3	1366.0	1355.0	1342.6	1333.0	1326.1
12.5°	1438.8	1434.7	1411.3	1388.0	1366.0	1334.4	1316.5	1284.9	1268.4	1276.6	1273.9
15°	1401.7	1382.5	1377.0	1344.0	1306.9	1286.3	1253.3	1232.7	1225.8	1213.4	1198.3
17.5°	1352.2	1339.9	1320.6	1290.4	1247.8	1218.9	1195.6	1176.3	1168.1	1151.6	1139.2
20°	1305.5	1284.9	1269.8	1242.3	1201.1	1164.0	1135.1	1122.7	1102.1	1088.4	1081.5
22.5°	1262.9	1247.8	1225.8	1184.6	1148.8	1113.1	1078.8	1060.9	1041.7	1033.4	1022.4
25°	1210.7	1185.9	1170.8	1125.5	1087.0	1058.1	1026.5	1003.2	992.2	978.4	975.7
27.5°	1159.8	1136.5	1118.6	1078.8	1032.0	994.9	975.7	959.2	940.0	940.0	933.1
30°	1109.0	1092.5	1065.0	1026.5	982.6	946.8	924.8	909.7	902.9	897.4	896.0
32.5°	1058.1	1036.2	1019.7	967.4	934.5	901.5	885.0	872.6	864.4	863.0	864.4
35°	1005.9	981.2	964.7	918.0	885.0	854.8	847.9	836.9	832.8	831.4	838.3
37.5°	951.0	931.7	911.1	872.6	835.5	817.7	803.9	799.8	798.4	806.7	809.4
40°	900.1	883.6	864.4	823.2	795.7	776.4	769.6	765.4	770.9	779.2	783.3
42.5°	852.0	828.7	813.5	776.4	751.7	740.7	732.5	732.5	738.0	747.6	754.4
45°	801.2	783.3	768.2	735.2	713.2	700.8	699.5	700.8	707.7	714.6	722.8
47.5°	751.7	733.8	717.3	689.9	670.6	663.7	662.4	663.7	674.7	684.4	694.0
50°	706.3	687.1	672.0	645.9	630.8	622.5	623.9	630.8	639.0	652.8	665.1
52.5°	652.8	639.0	625.3	601.9	588.2	582.7	586.8	592.3	607.4	617.0	632.1
55°	600.5	588.2	577.2	559.3	548.3	544.2	546.9	555.2	567.6	584.0	601.9
57.5°	552.4	538.7	527.7	515.3	503.0	504.3	505.7	516.7	531.8	546.9	567.6
60°	498.8	490.6	481.0	465.9	460.4	460.4	464.5	476.9	490.6	515.3	533.2
62.5°	450.7	439.7	432.9	423.3	415.0	416.4	426.0	437.0	453.5	474.1	497.5
65°	401.3	388.9	383.4	375.2	372.4	373.8	380.7	397.1	415.0	432.9	454.9
67.5°	346.3	342.2	336.7	328.4	331.2	332.6	339.4	353.2	372.4	390.3	415.0
70°	299.6	291.3	290.0	283.1	283.1	287.2	301.0	310.6	328.4	347.7	373.8
72.5°	250.1	243.2	243.2	237.7	241.9	246.0	252.9	266.6	283.1	302.3	324.3
75°	199.3	196.5	199.3	196.5	196.5	203.4	211.6	222.6	240.5	261.1	279.0
77.5°	153.9	153.9	152.5	156.7	156.7	160.8	171.8	182.8	196.5	213.0	232.2
80°	112.7	112.7	112.7	116.8	120.9	120.9	127.8	141.5	153.9	164.9	182.8
82.5°	77.0	77.0	77.0	79.7	85.2	85.2	93.4	101.7	115.4	125.1	133.3
85°	46.7	46.7	45.3	48.1	49.5	53.6	60.5	66.0	72.8	81.1	89.3
87.5°	20.6	20.6	22.0	23.4	24.7	27.5	30.2	33.0	39.9	42.6	46.7
90°	7.3	8.0	8.5	9.5	10.6	11.6	12.6	13.4	14.1	14.9	15.6
92.5°	21.5	22.3	22.6	23.2	23.9	24.5	25.1	25.5	25.9	26.3	26.7
95°	38.8	39.4	39.8	40.7	41.6	42.5	43.4	43.8	44.2	44.6	45.0
97.5°	58.9	59.4	59.9	60.9	62.0	63.0	64.0	64.5	65.0	65.5	66.0
100°	82.0	82.3	82.9	84.0	85.1	86.3	87.4	87.7	87.9	88.2	88.5
102.5°	106.8	106.9	107.4	108.4	109.4	110.4	111.4	111.8	112.2	112.6	113.0
105°	133.6	133.7	134.0	134.5	135.0	135.5	136.0	136.4	136.8	137.1	137.5
107.5°	161.6	161.7	161.8	161.9	162.0	162.2	162.3	162.8	163.3	163.8	164.3
110°	190.8	190.9	190.8	190.7	190.6	190.4	190.3	190.1	189.8	189.6	189.3

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	219.5	219.5	219.4	219.1	218.8	218.6	218.3	218.3	218.3	218.3	218.3
115°	249.2	249.2	249.1	248.8	248.5	248.3	248.0	247.9	247.8	247.7	247.6
117.5°	277.2	277.2	277.1	277.0	276.9	276.7	276.6	276.2	275.8	275.5	275.1
120°	307.2	307.5	307.3	306.9	306.6	306.2	305.8	305.2	304.5	303.9	303.2
122.5°	334.8	334.9	334.8	334.7	334.6	334.4	334.3	333.9	333.5	333.2	332.8
125°	362.9	362.9	362.8	362.7	362.6	362.4	362.3	362.1	361.8	361.6	361.3
127.5°	390.2	390.4	390.3	390.0	389.7	389.5	389.2	389.0	388.7	388.5	388.2
130°	417.6	417.8	417.8	417.8	417.8	417.8	417.8	417.5	417.3	417.0	416.7
132.5°	445.1	445.2	445.1	445.0	444.9	444.8	444.7	444.4	444.2	443.9	443.6
135°	471.1	471.5	471.5	471.5	471.5	471.5	471.5	471.3	471.0	470.8	470.5
137.5°	496.5	496.7	496.8	497.1	497.3	497.6	497.8	497.4	497.0	496.7	496.3
140°	522.8	522.9	522.9	522.9	522.9	522.9	522.9	522.8	522.7	522.6	522.5
142.5°	547.4	547.5	547.4	547.3	547.2	547.1	547.0	547.0	547.0	547.0	547.0
145°	570.7	571.0	571.1	571.2	571.3	571.4	571.5	571.4	571.3	571.2	571.1
147.5°	594.1	594.4	594.3	594.2	594.1	593.9	593.8	593.7	593.5	593.4	593.3
150°	614.1	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
152.5°	632.6	632.7	632.8	632.9	633.0	633.2	633.3	633.7	634.1	634.4	634.8
155°	651.5	651.5	651.4	651.3	651.2	651.1	651.0	651.5	652.0	652.5	653.0
157.5°	667.6	667.5	667.5	667.5	667.5	667.5	667.5	667.9	668.3	668.7	669.1
160°	683.1	683.0	682.9	682.8	682.7	682.5	682.4	682.8	683.2	683.5	683.9
162.5°	695.8	695.6	695.5	695.4	695.3	695.1	695.0	695.8	696.5	697.3	698.0
165°	707.8	707.6	707.5	707.2	706.9	706.7	706.4	707.2	707.9	708.7	709.4
167.5°	717.0	716.7	716.7	716.7	716.7	716.7	716.7	717.5	718.2	719.0	719.7
170°	724.4	724.1	724.2	724.3	724.4	724.6	724.7	725.5	726.2	727.0	727.7
172.5°	730.7	730.4	730.4	730.4	730.4	730.4	730.4	731.3	732.2	733.1	734.0
175°	735.3	735.0	734.9	734.8	734.7	734.5	734.4	735.3	736.2	737.1	738.0
177.5°	737.6	737.3	737.3	737.3	737.3	737.3	737.3	738.2	739.1	740.0	740.9
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1565.2	1563.9	1557.0	1559.7	1551.5	1554.2	1558.4	1559.7	1565.2	1561.1	1559.7
5°	1469.0	1466.3	1462.2	1458.0	1456.7	1462.2	1452.5	1455.3	1458.0	1462.2	1467.7
7.5°	1390.7	1389.3	1385.2	1378.3	1375.6	1372.8	1374.2	1383.8	1382.5	1381.1	1390.7
10°	1319.2	1320.6	1312.4	1311.0	1302.8	1301.4	1302.8	1305.5	1309.6	1315.1	1316.5
12.5°	1245.0	1262.9	1247.8	1242.3	1229.9	1236.8	1239.5	1227.2	1234.0	1238.2	1258.8
15°	1198.3	1190.1	1180.5	1180.5	1175.0	1172.2	1165.3	1175.0	1180.5	1188.7	1185.9
17.5°	1133.7	1120.0	1114.5	1109.0	1110.4	1115.9	1100.7	1122.7	1122.7	1126.9	1120.0
20°	1077.4	1066.4	1059.5	1056.8	1052.6	1049.9	1048.5	1054.0	1062.3	1065.0	1071.9
22.5°	1018.3	1018.3	1007.3	1003.2	1000.4	996.3	1003.2	999.1	1004.6	1010.0	1021.0
25°	968.8	968.8	964.7	959.2	955.1	952.3	956.5	955.1	959.2	966.1	968.8
27.5°	929.0	924.8	923.5	922.1	920.7	922.1	920.7	924.8	929.0	930.3	927.6
30°	894.6	890.5	891.9	891.9	893.2	891.9	890.5	894.6	896.0	893.2	894.6
32.5°	863.0	863.0	865.8	867.1	867.1	868.5	869.9	867.1	868.5	864.4	865.8
35°	836.9	839.6	842.4	843.8	845.1	843.8	846.5	845.1	842.4	839.6	838.3
37.5°	810.8	813.5	819.0	820.4	824.5	825.9	823.2	823.2	821.8	816.3	813.5
40°	783.3	786.1	792.9	797.0	799.8	803.9	801.2	801.2	795.7	790.2	786.1
42.5°	757.2	762.7	769.6	773.7	779.2	779.2	779.2	776.4	769.6	764.1	759.9
45°	731.1	732.5	742.1	748.9	754.4	754.4	754.4	750.3	746.2	735.2	729.7
47.5°	702.2	706.3	717.3	724.2	729.7	731.1	731.1	727.0	718.7	709.1	702.2
50°	670.6	677.5	689.9	699.5	706.3	709.1	705.0	702.2	692.6	681.6	673.4
52.5°	640.4	648.6	663.7	672.0	681.6	683.0	681.6	677.5	666.5	651.4	644.5
55°	610.2	617.0	633.5	647.3	655.5	658.2	655.5	648.6	634.9	619.8	612.9
57.5°	577.2	586.8	604.7	618.4	628.0	629.4	626.6	619.8	608.8	589.5	579.9
60°	542.8	555.2	573.0	586.8	599.2	600.5	597.8	588.2	574.4	555.2	546.9
62.5°	508.5	518.1	538.7	553.8	563.4	570.3	564.8	555.2	541.4	522.2	509.8
65°	468.6	482.3	500.2	514.0	525.0	526.3	523.6	515.3	500.2	479.6	470.0
67.5°	430.1	439.7	457.6	475.5	479.6	483.7	479.6	471.4	459.0	441.1	427.4
70°	383.4	391.7	413.6	426.0	431.5	435.6	432.9	424.6	413.6	397.1	386.2
72.5°	336.7	343.6	364.2	373.8	384.8	383.4	382.0	376.5	361.4	350.4	343.6
75°	287.2	295.5	309.2	321.6	325.7	325.7	325.7	321.6	311.9	294.1	287.2
77.5°	241.9	246.0	257.0	263.8	268.0	269.3	268.0	261.1	255.6	243.2	239.1
80°	185.5	196.5	204.8	206.1	211.6	211.6	211.6	208.9	203.4	191.0	189.6
82.5°	140.2	142.9	151.2	155.3	158.0	156.7	156.7	151.2	149.8	142.9	140.2
85°	94.8	98.9	97.6	103.1	104.4	101.7	101.7	104.4	97.6	98.9	94.8
87.5°	52.2	52.2	55.0	53.6	59.1	59.1	56.3	57.7	55.0	53.6	52.2
90°	16.0	16.1	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	16.0
92.5°	26.9	27.0	27.1	27.2	27.3	27.4	27.3	27.2	27.1	27.0	26.9
95°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
97.5°	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
100°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
102.5°	113.2	113.3	113.4	113.5	113.6	113.7	113.6	113.5	113.4	113.3	113.2
105°	137.7	137.9	138.3	138.7	139.1	139.5	139.1	138.7	138.3	137.9	137.7
107.5°	164.6	164.5	164.4	164.3	164.1	164.0	164.1	164.3	164.4	164.5	164.6
110°	189.2	189.4	189.8	190.1	190.5	190.9	190.5	190.1	189.8	189.4	189.2

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3	218.3
115°	247.5	247.4	247.3	247.2	247.0	246.9	247.0	247.2	247.3	247.4	247.5
117.5°	274.9	274.7	274.3	274.0	273.6	273.2	273.6	274.0	274.3	274.7	274.9
120°	302.9	303.0	303.3	303.6	303.8	304.1	303.8	303.6	303.3	303.0	302.9
122.5°	332.6	332.3	331.7	331.0	330.4	329.8	330.4	331.0	331.7	332.3	332.6
125°	361.2	361.1	360.8	360.6	360.3	360.1	360.3	360.6	360.8	361.1	361.2
127.5°	388.1	388.0	387.9	387.8	387.6	387.5	387.6	387.8	387.9	388.0	388.1
130°	416.6	416.4	415.9	415.4	414.9	414.4	414.9	415.4	415.9	416.4	416.6
132.5°	443.5	443.4	443.3	443.2	443.0	442.9	443.0	443.2	443.3	443.4	443.5
135°	470.4	470.2	469.8	469.5	469.1	468.7	469.1	469.5	469.8	470.2	470.4
137.5°	496.1	496.2	496.3	496.4	496.6	496.7	496.6	496.4	496.3	496.2	496.1
140°	522.4	522.3	522.2	522.1	521.9	521.8	521.9	522.1	522.2	522.3	522.4
142.5°	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0	547.0
145°	571.0	570.8	570.4	570.0	569.6	569.2	569.6	570.0	570.4	570.8	571.0
147.5°	593.2	593.1	593.0	592.9	592.8	592.7	592.8	592.9	593.0	593.1	593.2
150°	614.4	614.3	614.2	614.1	613.9	613.8	613.9	614.1	614.2	614.3	614.4
152.5°	635.0	634.8	634.4	634.1	633.7	633.3	633.7	634.1	634.4	634.8	635.0
155°	653.3	653.0	652.5	652.0	651.5	651.0	651.5	652.0	652.5	653.0	653.3
157.5°	669.3	669.1	668.7	668.3	667.9	667.5	667.9	668.3	668.7	669.1	669.3
160°	684.1	683.8	683.2	682.5	681.9	681.3	681.9	682.5	683.2	683.8	684.1
162.5°	698.4	698.1	697.5	696.8	696.2	695.6	696.2	696.8	697.5	698.1	698.4
165°	709.8	709.6	709.1	708.6	708.1	707.6	708.1	708.6	709.1	709.6	709.8
167.5°	720.1	719.7	719.0	718.2	717.5	716.7	717.5	718.2	719.0	719.7	720.1
170°	728.1	727.7	726.8	725.9	725.0	724.1	725.0	725.9	726.8	727.7	728.1
172.5°	734.4	734.0	733.1	732.2	731.3	730.4	731.3	732.2	733.1	734.0	734.4
175°	738.4	738.0	737.1	736.2	735.3	734.4	735.3	736.2	737.1	738.0	738.4
177.5°	741.3	740.8	739.8	738.7	737.7	736.7	737.7	738.7	739.8	740.8	741.3
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1559.7	1568.0	1559.7	1565.2	1568.0	1574.9	1577.6	1590.0	1594.1	1603.7	1603.7
5°	1466.3	1470.4	1471.8	1477.3	1482.8	1496.5	1506.1	1524.0	1544.6	1547.4	1559.7
7.5°	1390.7	1397.6	1408.6	1404.4	1414.1	1434.7	1447.0	1469.0	1489.6	1500.6	1515.8
10°	1323.4	1331.6	1335.7	1339.9	1357.7	1375.6	1394.8	1409.9	1437.4	1453.9	1466.3
12.5°	1268.4	1261.5	1269.8	1284.9	1305.5	1316.5	1342.6	1366.0	1386.6	1404.4	1415.4
15°	1196.9	1202.4	1210.7	1236.8	1242.3	1269.8	1279.4	1305.5	1344.0	1360.5	1374.2
17.5°	1128.2	1146.1	1162.6	1172.2	1188.7	1210.7	1238.2	1267.0	1291.8	1311.0	1327.5
20°	1073.3	1091.1	1100.7	1107.6	1124.1	1154.3	1180.5	1216.2	1247.8	1262.9	1284.9
22.5°	1029.3	1029.3	1043.0	1063.6	1073.3	1102.1	1124.1	1162.6	1196.9	1216.2	1236.8
25°	974.3	982.6	993.6	1011.4	1025.2	1048.5	1080.1	1113.1	1150.2	1166.7	1192.8
27.5°	929.0	938.6	953.7	957.8	971.6	992.2	1025.2	1060.9	1099.4	1117.2	1139.2
30°	894.6	900.1	905.6	913.9	926.2	944.1	971.6	1003.2	1049.9	1063.6	1091.1
32.5°	864.4	867.1	869.9	876.7	883.6	901.5	923.5	957.8	996.3	1016.9	1041.7
35°	836.9	834.1	835.5	839.6	846.5	853.4	876.7	905.6	941.3	966.1	985.3
37.5°	810.8	805.3	803.9	803.9	806.7	814.9	832.8	857.5	896.0	916.6	935.8
40°	781.9	776.4	773.7	772.3	770.9	776.4	790.2	814.9	845.1	864.4	886.4
42.5°	754.4	748.9	742.1	740.7	738.0	740.7	750.3	773.7	799.8	819.0	836.9
45°	727.0	717.3	709.1	703.6	705.0	700.8	707.7	725.6	755.8	768.2	786.1
47.5°	696.7	685.7	674.7	669.2	663.7	666.5	669.2	684.4	710.5	722.8	740.7
50°	667.9	652.8	640.4	633.5	629.4	626.6	629.4	644.5	663.7	674.7	689.9
52.5°	634.9	619.8	607.4	596.4	590.9	586.8	588.2	601.9	619.8	630.8	645.9
55°	604.7	585.4	568.9	555.2	551.1	549.7	548.3	557.9	573.0	584.0	596.4
57.5°	570.3	551.1	533.2	516.7	508.5	507.1	507.1	509.8	529.1	537.3	544.2
60°	535.9	515.3	496.1	481.0	468.6	464.5	463.1	468.6	478.2	486.5	496.1
62.5°	497.5	476.9	453.5	439.7	427.4	416.4	420.5	421.9	435.6	439.7	448.0
65°	460.4	437.0	417.8	395.8	382.0	375.2	372.4	375.2	386.2	387.5	393.0
67.5°	417.8	395.8	372.4	357.3	344.9	332.6	329.8	329.8	335.3	339.4	346.3
70°	376.5	354.5	328.4	311.9	299.6	288.6	284.5	283.1	287.2	290.0	296.8
72.5°	328.4	306.4	287.2	269.3	254.2	246.0	241.9	239.1	243.2	246.0	247.4
75°	277.6	259.7	240.5	222.6	213.0	204.8	199.3	195.1	197.9	197.9	197.9
77.5°	229.5	211.6	196.5	184.1	171.8	162.2	158.0	153.9	155.3	155.3	158.0
80°	178.6	166.3	153.9	142.9	131.9	123.7	120.9	116.8	114.1	112.7	112.7
82.5°	131.9	122.3	111.3	101.7	96.2	87.9	85.2	79.7	79.7	78.3	78.3
85°	87.9	82.5	71.5	64.6	60.5	56.3	53.6	50.8	46.7	46.7	45.3
87.5°	46.7	44.0	41.2	33.0	33.0	28.9	27.5	26.1	22.0	23.4	23.4
90°	15.6	14.9	14.1	13.4	12.6	11.6	10.6	9.5	8.5	8.0	7.3
92.5°	26.7	26.3	25.9	25.5	25.1	24.5	23.9	23.2	22.6	22.3	21.5
95°	45.0	44.6	44.2	43.8	43.4	42.5	41.6	40.7	39.8	39.4	38.8
97.5°	66.0	65.5	65.0	64.5	64.0	63.0	62.0	60.9	59.9	59.4	58.9
100°	88.5	88.2	87.9	87.7	87.4	86.3	85.1	84.0	82.9	82.3	82.0
102.5°	113.0	112.6	112.2	111.8	111.4	110.4	109.4	108.4	107.4	106.9	106.8
105°	137.5	137.1	136.8	136.4	136.0	135.5	135.0	134.5	134.0	133.7	133.6
107.5°	164.3	163.8	163.3	162.8	162.3	162.2	162.0	161.9	161.8	161.7	161.6
110°	189.3	189.6	189.8	190.1	190.3	190.4	190.6	190.7	190.8	190.9	190.8



TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	218.3	218.3	218.3	218.3	218.3	218.6	218.8	219.1	219.4	219.5	219.5
115°	247.6	247.7	247.8	247.9	248.0	248.3	248.5	248.8	249.1	249.2	249.2
117.5°	275.1	275.5	275.8	276.2	276.6	276.7	276.9	277.0	277.1	277.2	277.2
120°	303.2	303.9	304.5	305.2	305.8	306.2	306.6	306.9	307.3	307.5	307.2
122.5°	332.8	333.2	333.5	333.9	334.3	334.4	334.6	334.7	334.8	334.9	334.8
125°	361.3	361.6	361.8	362.1	362.3	362.4	362.6	362.7	362.8	362.9	362.9
127.5°	388.2	388.5	388.7	389.0	389.2	389.5	389.7	390.0	390.3	390.4	390.2
130°	416.7	417.0	417.3	417.5	417.8	417.8	417.8	417.8	417.8	417.8	417.6
132.5°	443.6	443.9	444.2	444.4	444.7	444.8	444.9	445.0	445.1	445.2	445.1
135°	470.5	470.8	471.0	471.3	471.5	471.5	471.5	471.5	471.5	471.5	471.1
137.5°	496.3	496.7	497.0	497.4	497.8	497.6	497.3	497.1	496.8	496.7	496.5
140°	522.5	522.6	522.7	522.8	522.9	522.9	522.9	522.9	522.9	522.9	522.8
142.5°	547.0	547.0	547.0	547.0	547.0	547.1	547.2	547.3	547.4	547.5	547.4
145°	571.1	571.2	571.3	571.4	571.5	571.4	571.3	571.2	571.1	571.0	570.7
147.5°	593.3	593.4	593.5	593.7	593.8	593.9	594.1	594.2	594.3	594.4	594.1
150°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.1
152.5°	634.8	634.4	634.1	633.7	633.3	633.2	633.0	632.9	632.8	632.7	632.6
155°	653.0	652.5	652.0	651.5	651.0	651.1	651.2	651.3	651.4	651.5	651.5
157.5°	669.1	668.7	668.3	667.9	667.5	667.5	667.5	667.5	667.5	667.5	667.6
160°	683.9	683.5	683.2	682.8	682.4	682.5	682.7	682.8	682.9	683.0	683.1
162.5°	698.0	697.3	696.5	695.8	695.0	695.1	695.3	695.4	695.5	695.6	695.8
165°	709.4	708.7	707.9	707.2	706.4	706.7	706.9	707.2	707.5	707.6	707.8
167.5°	719.7	719.0	718.2	717.5	716.7	716.7	716.7	716.7	716.7	716.7	717.0
170°	727.7	727.0	726.2	725.5	724.7	724.6	724.4	724.3	724.2	724.1	724.4
172.5°	734.0	733.1	732.2	731.3	730.4	730.4	730.4	730.4	730.4	730.4	730.7
175°	738.0	737.1	736.2	735.3	734.4	734.5	734.7	734.8	734.9	735.0	735.3
177.5°	740.9	740.0	739.1	738.2	737.3	737.3	737.3	737.3	737.3	737.3	737.6
180°	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0	739.0

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1658.7	1658.7	1658.7	1658.7
2.5°	1613.3	1627.1	1639.4	1658.7
5°	1577.6	1596.8	1622.9	1651.8
7.5°	1536.4	1566.6	1601.0	1640.8
10°	1497.9	1532.2	1576.2	1624.3
12.5°	1458.0	1499.3	1547.4	1599.6
15°	1412.7	1453.9	1507.5	1577.6
17.5°	1371.5	1420.9	1478.7	1552.9
20°	1323.4	1370.1	1433.3	1518.5
22.5°	1280.8	1334.4	1404.4	1478.7
25°	1234.0	1280.8	1350.9	1440.2
27.5°	1187.3	1245.0	1312.4	1399.0
30°	1142.0	1190.1	1262.9	1353.6
32.5°	1092.5	1150.2	1217.6	1302.8
35°	1038.9	1093.9	1157.1	1249.2
37.5°	990.8	1044.4	1109.0	1190.1
40°	937.2	993.6	1052.6	1133.7
42.5°	885.0	935.8	994.9	1069.1
45°	834.1	878.1	931.7	996.3
47.5°	781.9	819.0	868.5	926.2
50°	725.6	765.4	802.5	850.6
52.5°	673.4	707.7	738.0	777.8
55°	622.5	645.9	670.6	700.8
57.5°	568.9	586.8	604.7	636.3
60°	515.3	531.8	541.4	562.1
62.5°	463.1	470.0	482.3	494.7
65°	405.4	415.0	421.9	437.0
67.5°	353.2	357.3	364.2	373.8
70°	298.2	307.8	310.6	317.4
72.5°	251.5	255.6	258.4	259.7
75°	199.3	203.4	206.1	214.4
77.5°	156.7	155.3	160.8	162.2
80°	115.4	111.3	112.7	118.2
82.5°	75.6	77.0	75.6	75.6
85°	46.7	45.3	42.6	44.0
87.5°	20.6	20.6	19.2	19.2
90°	5.9	4.5	3.1	1.7
92.5°	19.8	18.2	16.5	14.9
95°	37.7	36.6	35.4	34.3
97.5°	57.9	56.9	55.9	54.9
100°	81.5	81.0	80.5	80.0
102.5°	106.7	106.6	106.4	106.3
105°	133.5	133.4	133.3	133.2
107.5°	161.5	161.4	161.3	161.2
110°	190.5	190.2	190.0	189.7

TEST NUMBER: P1000711

CATALOG NUMBER: SA4XXDIP-B1020D590UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	219.5	219.5	219.5	219.5
115°	249.2	249.2	249.2	249.2
117.5°	277.2	277.2	277.2	277.2
120°	306.7	306.2	305.7	305.2
122.5°	334.7	334.6	334.4	334.3
125°	362.9	362.9	362.9	362.9
127.5°	389.8	389.4	389.0	388.6
130°	417.2	416.9	416.5	416.1
132.5°	444.8	444.6	444.3	444.1
135°	470.4	469.6	468.9	468.1
137.5°	496.1	495.7	495.3	494.9
140°	522.5	522.3	522.0	521.8
142.5°	547.1	546.9	546.6	546.4
145°	570.2	569.7	569.2	568.7
147.5°	593.4	592.8	592.1	591.5
150°	613.6	613.1	612.6	612.1
152.5°	632.3	632.0	631.8	631.5
155°	651.5	651.5	651.5	651.5
157.5°	667.9	668.2	668.4	668.7
160°	683.2	683.3	683.4	683.5
162.5°	696.2	696.5	696.9	697.3
165°	708.2	708.5	708.9	709.3
167.5°	717.5	718.0	718.5	719.0
170°	725.1	725.7	726.4	727.0
172.5°	731.2	731.7	732.2	732.7
175°	735.9	736.6	737.2	737.8
177.5°	738.2	738.9	739.5	740.1
180°	739.0	739.0	739.0	739.0

(END OF REPORT)