

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: P1000696

Luminaire Tested: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000696
REPORT IS A COMBINATION OF REPORTS P995309 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

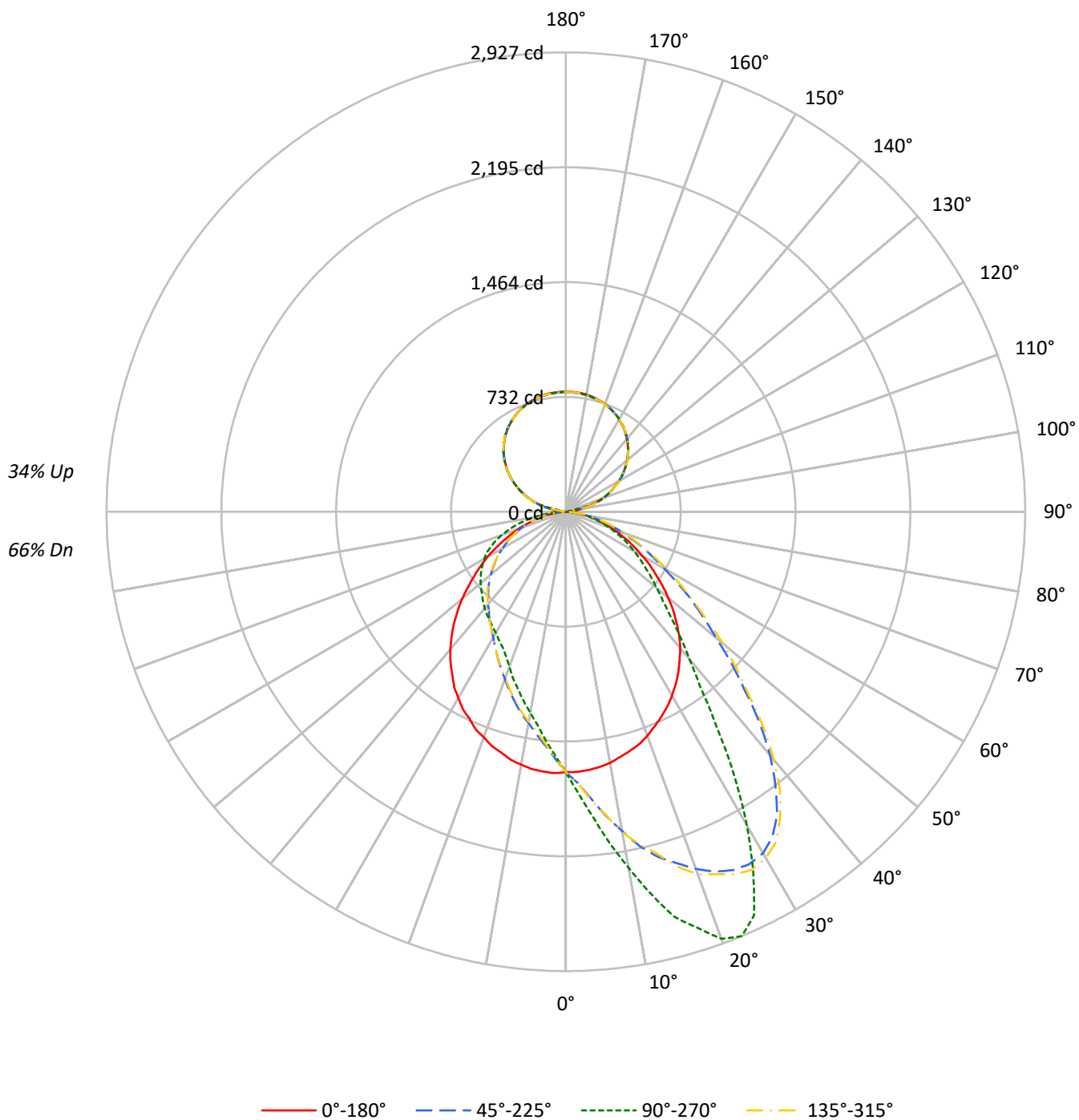
Lumens per Lamp: N/A
Luminaire Lumens: 6943.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60
2	93	85	79	74	87	81	75	71	72	67	64	63	60	57	56	53	51
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	45	41	37	40	37	33
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	27	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	2.3
10°-20°	498.3	7.2
20°-30°	791.6	11.4
30°-40°	879.6	12.7
40°-50°	799.9	11.5
50°-60°	653.6	9.4
60°-70°	466.6	6.7
70°-80°	256.7	3.7
80°-90°	71.0	1.0
90°-100°	25.4	0.4
100°-110°	167.0	2.4
110°-120°	319.0	4.6
120°-130°	404.9	5.8
130°-140°	433.2	6.2
140°-150°	405.0	5.8
150°-160°	326.6	4.7
160°-170°	210.7	3.0
170°-180°	72.6	1.0
0°-30°	1451.2	20.9
0°-40°	2330.8	33.6
0°-60°	3784.3	54.5
0°-90°	4578.6	65.9
90°-120°	511.4	7.4
90°-150°	1754.5	25.3
90°-180°	2364.0	34.0
0°-180°	6943.0	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	4
95°	31	17	31	17	31	39
105°	172	163	172	163	172	180
115°	321	324	321	324	321	316
125°	452	455	452	455	452	403
135°	560	564	560	564	560	432
145°	646	649	646	649	646	404
155°	708	708	708	708	708	327
165°	747	744	747	744	747	211
175°	764	760	764	760	764	73
180°	764	764	764	764	764	

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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°	8.6	8.3	8.1	7.8	7.5	7.4	7.9	8.9	10.0	11.0	12.0
95°	31.4	27.1	22.8	18.5	14.2	12.0	12.1	12.2	12.3	12.5	12.6
97.5°	60.0	62.8	65.6	68.4	71.2	72.6	65.9	52.6	39.3	25.9	12.6
100°	93.7	96.0	98.3	100.6	102.9	104.0	95.2	77.7	60.2	42.6	25.1
102.5°	131.4	132.9	134.5	136.0	137.5	138.3	139.1	140.6	142.1	143.7	145.2
105°	172.0	172.8	173.6	174.3	175.1	175.5	175.8	176.4	177.1	177.7	178.3
107.5°	209.2	209.6	210.0	210.3	210.7	210.9	211.3	212.2	213.1	214.0	214.9
110°	246.9	247.3	247.7	248.0	248.4	248.6	249.0	249.7	250.5	251.2	252.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	283.5	284.3	285.0	285.8	286.5	286.9	287.0	287.3	287.5	287.8	288.0
115°	321.2	321.6	322.0	322.3	322.7	322.9	322.8	322.7	322.6	322.4	322.3
117.5°	354.9	355.4	355.9	356.4	356.9	357.2	357.4	357.8	358.1	358.5	358.9
120°	389.2	389.7	390.2	390.7	391.2	391.5	391.4	391.3	391.2	391.0	390.9
122.5°	421.2	421.4	421.7	421.9	422.2	422.3	422.4	422.7	423.0	423.2	423.5
125°	451.5	452.0	452.5	453.0	453.5	453.8	453.7	453.4	453.1	452.9	452.6
127.5°	480.6	480.7	480.9	481.0	481.1	481.2	481.5	482.2	482.8	483.5	484.1
130°	508.6	508.7	508.9	509.0	509.1	509.2	509.4	509.8	510.1	510.5	510.9
132.5°	534.4	534.6	534.9	535.1	535.4	535.5	535.8	536.3	536.8	537.3	537.8
135°	560.1	560.0	559.8	559.7	559.6	559.5	559.8	560.3	560.8	561.3	561.8
137.5°	582.9	582.9	582.9	582.9	582.9	582.9	583.2	583.9	584.5	585.2	585.8
140°	605.2	605.5	605.7	606.0	606.3	606.4	606.5	606.8	607.0	607.3	607.5
142.5°	625.2	625.7	626.2	626.7	627.2	627.5	627.6	627.7	627.8	628.0	628.1
145°	645.8	646.2	646.6	646.9	647.3	647.5	647.5	647.5	647.5	647.5	647.5
147.5°	661.8	662.6	663.3	664.1	664.8	665.2	665.1	665.0	664.9	664.8	664.7
150°	679.5	680.0	680.5	681.0	681.5	681.8	681.7	681.6	681.5	681.3	681.2
152.5°	694.4	694.8	695.2	695.5	695.9	696.1	696.0	695.7	695.5	695.2	695.0
155°	708.1	708.2	708.4	708.5	708.6	708.7	708.5	708.1	707.8	707.4	707.0
157.5°	720.1	720.1	720.1	720.1	720.1	720.1	719.8	719.3	718.8	718.3	717.8
160°	730.4	730.0	729.6	729.3	728.9	728.7	728.6	728.5	728.4	728.2	728.1
162.5°	739.5	739.0	738.5	738.0	737.5	737.2	737.1	737.0	736.9	736.8	736.7
165°	747.0	746.4	745.7	745.1	744.4	744.1	744.1	744.1	744.1	744.1	744.1
167.5°	753.3	752.7	752.0	751.4	750.7	750.4	750.3	750.2	750.1	749.9	749.8
170°	758.4	757.6	756.9	756.1	755.4	755.0	755.1	755.2	755.3	755.4	755.5
172.5°	761.8	761.0	760.3	759.5	758.8	758.4	758.5	758.6	758.7	758.9	759.0
175°	764.1	763.3	762.6	761.8	761.1	760.7	760.8	760.9	761.0	761.2	761.3
177.5°	765.8	764.9	764.0	763.1	762.2	761.8	761.9	762.2	762.5	762.7	763.0
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

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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°	12.8	13.5	14.3	15.0	15.4	15.4	15.4	15.4	15.4	15.4	15.4
95°	13.4	14.1	14.9	15.6	16.0	16.1	16.2	16.3	16.5	16.6	16.5
97.5°	13.2	13.8	14.5	15.1	15.4	15.5	15.6	15.7	15.9	16.0	15.9
100°	22.9	20.8	18.6	16.5	15.4	15.5	15.6	15.7	15.9	16.0	15.9
102.5°	116.6	88.0	59.5	30.9	16.6	16.6	16.6	16.6	16.6	16.6	16.6
105°	179.5	180.6	181.8	182.9	183.5	181.2	176.6	172.1	167.5	162.9	167.5
107.5°	215.5	216.1	216.8	217.4	217.7	218.0	218.5	219.0	219.5	220.0	219.5
110°	252.3	252.5	252.8	253.1	253.2	253.4	253.8	254.1	254.5	254.9	254.5

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	287.9	287.8	287.7	287.6	287.5	287.8	288.3	288.8	289.3	289.8	289.3
115°	322.6	322.8	323.1	323.4	323.5	323.5	323.5	323.5	323.5	323.5	323.5
117.5°	358.8	358.6	358.5	358.4	358.3	358.3	358.3	358.3	358.3	358.3	358.3
120°	391.2	391.4	391.7	392.0	392.1	392.0	391.7	391.4	391.2	390.9	391.2
122.5°	423.6	423.8	423.9	424.0	424.1	424.0	423.7	423.4	423.2	422.9	423.2
125°	453.0	453.4	453.8	454.2	454.4	454.5	454.6	454.7	454.8	454.9	454.8
127.5°	484.0	483.8	483.7	483.6	483.5	483.4	483.3	483.2	483.0	482.9	483.0
130°	511.0	511.2	511.3	511.4	511.5	511.5	511.5	511.5	511.5	511.5	511.5
132.5°	537.9	538.1	538.2	538.3	538.4	538.3	538.2	538.1	537.9	537.8	537.9
135°	562.0	562.3	562.5	562.8	562.9	563.0	563.3	563.6	563.8	564.1	563.8
137.5°	586.0	586.3	586.5	586.8	586.9	586.8	586.7	586.6	586.5	586.4	586.5
140°	607.9	608.3	608.6	609.0	609.2	609.3	609.4	609.5	609.7	609.8	609.7
142.5°	628.3	628.6	628.8	629.1	629.2	629.2	629.2	629.2	629.2	629.2	629.2
145°	647.6	647.8	647.9	648.0	648.1	648.2	648.5	648.7	649.0	649.2	649.0
147.5°	664.8	664.9	665.0	665.1	665.2	665.3	665.4	665.5	665.7	665.8	665.7
150°	681.2	681.2	681.2	681.2	681.2	681.3	681.4	681.5	681.7	681.8	681.7
152.5°	695.2	695.5	695.7	696.0	696.1	696.0	695.9	695.8	695.6	695.5	695.6
155°	707.5	708.0	708.5	709.0	709.2	709.0	708.6	708.3	707.9	707.5	707.9
157.5°	718.4	719.1	719.7	720.4	720.7	720.4	719.7	719.1	718.4	717.8	718.4
160°	728.9	729.6	730.4	731.1	731.5	731.1	730.4	729.6	728.9	728.1	728.9
162.5°	737.5	738.2	739.0	739.7	740.1	739.7	738.8	737.9	737.0	736.1	737.0
165°	745.1	746.1	747.2	748.2	748.7	748.1	747.0	745.8	744.7	743.5	744.7
167.5°	751.0	752.1	753.3	754.4	755.0	754.4	753.1	751.8	750.5	749.2	750.5
170°	756.5	757.5	758.6	759.6	760.1	759.5	758.2	756.9	755.7	754.4	755.7
172.5°	760.0	761.0	762.0	763.0	763.5	762.8	761.4	760.1	758.7	757.3	758.7
175°	762.4	763.6	764.7	765.8	766.4	765.6	764.1	762.6	761.0	759.5	761.0
177.5°	764.0	765.0	766.0	767.0	767.5	766.7	765.2	763.7	762.2	760.7	762.2
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	15.4	15.4	15.4	15.4	15.0	14.3	13.5	12.8	12.0	11.0	10.0
95°	16.3	16.2	16.1	16.0	15.6	14.9	14.1	13.4	12.6	12.5	12.3
97.5°	15.7	15.6	15.5	15.4	15.1	14.5	13.8	13.2	12.6	25.9	39.3
100°	15.7	15.6	15.5	15.4	16.5	18.6	20.8	22.9	25.1	42.6	60.2
102.5°	16.6	16.6	16.6	16.6	30.9	59.5	88.0	116.6	145.2	143.7	142.1
105°	172.1	176.6	181.2	183.5	182.9	181.8	180.6	179.5	178.3	177.7	177.1
107.5°	219.0	218.5	218.0	217.7	217.4	216.8	216.1	215.5	214.9	214.0	213.1
110°	254.1	253.8	253.4	253.2	253.1	252.8	252.5	252.3	252.0	251.2	250.5

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	288.8	288.3	287.8	287.5	287.6	287.7	287.8	287.9	288.0	287.8	287.5
115°	323.5	323.5	323.5	323.5	323.4	323.1	322.8	322.6	322.3	322.4	322.6
117.5°	358.3	358.3	358.3	358.3	358.4	358.5	358.6	358.8	358.9	358.5	358.1
120°	391.4	391.7	392.0	392.1	392.0	391.7	391.4	391.2	390.9	391.0	391.2
122.5°	423.4	423.7	424.0	424.1	424.0	423.9	423.8	423.6	423.5	423.2	423.0
125°	454.7	454.6	454.5	454.4	454.2	453.8	453.4	453.0	452.6	452.9	453.1
127.5°	483.2	483.3	483.4	483.5	483.6	483.7	483.8	484.0	484.1	483.5	482.8
130°	511.5	511.5	511.5	511.5	511.4	511.3	511.2	511.0	510.9	510.5	510.1
132.5°	538.1	538.2	538.3	538.4	538.3	538.2	538.1	537.9	537.8	537.3	536.8
135°	563.6	563.3	563.0	562.9	562.8	562.5	562.3	562.0	561.8	561.3	560.8
137.5°	586.6	586.7	586.8	586.9	586.8	586.5	586.3	586.0	585.8	585.2	584.5
140°	609.5	609.4	609.3	609.2	609.0	608.6	608.3	607.9	607.5	607.3	607.0
142.5°	629.2	629.2	629.2	629.2	629.1	628.8	628.6	628.3	628.1	628.0	627.8
145°	648.7	648.5	648.2	648.1	648.0	647.9	647.8	647.6	647.5	647.5	647.5
147.5°	665.5	665.4	665.3	665.2	665.1	665.0	664.9	664.8	664.7	664.8	664.9
150°	681.5	681.4	681.3	681.2	681.2	681.2	681.2	681.2	681.2	681.3	681.5
152.5°	695.8	695.9	696.0	696.1	696.0	695.7	695.5	695.2	695.0	695.2	695.5
155°	708.3	708.6	709.0	709.2	709.0	708.5	708.0	707.5	707.0	707.4	707.8
157.5°	719.1	719.7	720.4	720.7	720.4	719.7	719.1	718.4	717.8	718.3	718.8
160°	729.6	730.4	731.1	731.5	731.1	730.4	729.6	728.9	728.1	728.2	728.4
162.5°	737.9	738.8	739.7	740.1	739.7	739.0	738.2	737.5	736.7	736.8	736.9
165°	745.8	747.0	748.1	748.7	748.2	747.2	746.1	745.1	744.1	744.1	744.1
167.5°	751.8	753.1	754.4	755.0	754.4	753.3	752.1	751.0	749.8	749.9	750.1
170°	756.9	758.2	759.5	760.1	759.6	758.6	757.5	756.5	755.5	755.4	755.3
172.5°	760.1	761.4	762.8	763.5	763.0	762.0	761.0	760.0	759.0	758.9	758.7
175°	762.6	764.1	765.6	766.4	765.8	764.7	763.6	762.4	761.3	761.2	761.0
177.5°	763.7	765.2	766.7	767.5	767.0	766.0	765.0	764.0	763.0	762.7	762.5
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	8.9	7.9	7.4	7.5	7.8	8.1	8.3	8.6	8.3	8.1	7.8
95°	12.2	12.1	12.0	14.2	18.5	22.8	27.1	31.4	27.1	22.8	18.5
97.5°	52.6	65.9	72.6	71.2	68.4	65.6	62.8	60.0	62.8	65.6	68.4
100°	77.7	95.2	104.0	102.9	100.6	98.3	96.0	93.7	96.0	98.3	100.6
102.5°	140.6	139.1	138.3	137.5	136.0	134.5	132.9	131.4	132.9	134.5	136.0
105°	176.4	175.8	175.5	175.1	174.3	173.6	172.8	172.0	172.8	173.6	174.3
107.5°	212.2	211.3	210.9	210.7	210.3	210.0	209.6	209.2	209.6	210.0	210.3
110°	249.7	249.0	248.6	248.4	248.0	247.7	247.3	246.9	247.3	247.7	248.0

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.3	287.0	286.9	286.5	285.8	285.0	284.3	283.5	284.3	285.0	285.8
115°	322.7	322.8	322.9	322.7	322.3	322.0	321.6	321.2	321.6	322.0	322.3
117.5°	357.8	357.4	357.2	356.9	356.4	355.9	355.4	354.9	355.4	355.9	356.4
120°	391.3	391.4	391.5	391.2	390.7	390.2	389.7	389.2	389.7	390.2	390.7
122.5°	422.7	422.4	422.3	422.2	421.9	421.7	421.4	421.2	421.4	421.7	421.9
125°	453.4	453.7	453.8	453.5	453.0	452.5	452.0	451.5	452.0	452.5	453.0
127.5°	482.2	481.5	481.2	481.1	481.0	480.9	480.7	480.6	480.7	480.9	481.0
130°	509.8	509.4	509.2	509.1	509.0	508.9	508.7	508.6	508.7	508.9	509.0
132.5°	536.3	535.8	535.5	535.4	535.1	534.9	534.6	534.4	534.6	534.9	535.1
135°	560.3	559.8	559.5	559.6	559.7	559.8	560.0	560.1	560.0	559.8	559.7
137.5°	583.9	583.2	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
140°	606.8	606.5	606.4	606.3	606.0	605.7	605.5	605.2	605.5	605.7	606.0
142.5°	627.7	627.6	627.5	627.2	626.7	626.2	625.7	625.2	625.7	626.2	626.7
145°	647.5	647.5	647.5	647.3	646.9	646.6	646.2	645.8	646.2	646.6	646.9
147.5°	665.0	665.1	665.2	664.8	664.1	663.3	662.6	661.8	662.6	663.3	664.1
150°	681.6	681.7	681.8	681.5	681.0	680.5	680.0	679.5	680.0	680.5	681.0
152.5°	695.7	696.0	696.1	695.9	695.5	695.2	694.8	694.4	694.8	695.2	695.5
155°	708.1	708.5	708.7	708.6	708.5	708.4	708.2	708.1	708.2	708.4	708.5
157.5°	719.3	719.8	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1	720.1
160°	728.5	728.6	728.7	728.9	729.3	729.6	730.0	730.4	730.0	729.6	729.3
162.5°	737.0	737.1	737.2	737.5	738.0	738.5	739.0	739.5	739.0	738.5	738.0
165°	744.1	744.1	744.1	744.4	745.1	745.7	746.4	747.0	746.4	745.7	745.1
167.5°	750.2	750.3	750.4	750.7	751.4	752.0	752.7	753.3	752.7	752.0	751.4
170°	755.2	755.1	755.0	755.4	756.1	756.9	757.6	758.4	757.6	756.9	756.1
172.5°	758.6	758.5	758.4	758.8	759.5	760.3	761.0	761.8	761.0	760.3	759.5
175°	760.9	760.8	760.7	761.1	761.8	762.6	763.3	764.1	763.3	762.6	761.8
177.5°	762.2	761.9	761.8	762.2	763.1	764.0	764.9	765.8	764.9	764.0	763.1
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	7.5	7.4	7.9	8.9	10.0	11.0	12.0	12.8	13.5	14.3	15.0
95°	14.2	12.0	12.1	12.2	12.3	12.5	12.6	13.4	14.1	14.9	15.6
97.5°	71.2	72.6	65.9	52.6	39.3	25.9	12.6	13.2	13.8	14.5	15.1
100°	102.9	104.0	95.2	77.7	60.2	42.6	25.1	22.9	20.8	18.6	16.5
102.5°	137.5	138.3	139.1	140.6	142.1	143.7	145.2	116.6	88.0	59.5	30.9
105°	175.1	175.5	175.8	176.4	177.1	177.7	178.3	179.5	180.6	181.8	182.9
107.5°	210.7	210.9	211.3	212.2	213.1	214.0	214.9	215.5	216.1	216.8	217.4
110°	248.4	248.6	249.0	249.7	250.5	251.2	252.0	252.3	252.5	252.8	253.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	286.5	286.9	287.0	287.3	287.5	287.8	288.0	287.9	287.8	287.7	287.6
115°	322.7	322.9	322.8	322.7	322.6	322.4	322.3	322.6	322.8	323.1	323.4
117.5°	356.9	357.2	357.4	357.8	358.1	358.5	358.9	358.8	358.6	358.5	358.4
120°	391.2	391.5	391.4	391.3	391.2	391.0	390.9	391.2	391.4	391.7	392.0
122.5°	422.2	422.3	422.4	422.7	423.0	423.2	423.5	423.6	423.8	423.9	424.0
125°	453.5	453.8	453.7	453.4	453.1	452.9	452.6	453.0	453.4	453.8	454.2
127.5°	481.1	481.2	481.5	482.2	482.8	483.5	484.1	484.0	483.8	483.7	483.6
130°	509.1	509.2	509.4	509.8	510.1	510.5	510.9	511.0	511.2	511.3	511.4
132.5°	535.4	535.5	535.8	536.3	536.8	537.3	537.8	537.9	538.1	538.2	538.3
135°	559.6	559.5	559.8	560.3	560.8	561.3	561.8	562.0	562.3	562.5	562.8
137.5°	582.9	582.9	583.2	583.9	584.5	585.2	585.8	586.0	586.3	586.5	586.8
140°	606.3	606.4	606.5	606.8	607.0	607.3	607.5	607.9	608.3	608.6	609.0
142.5°	627.2	627.5	627.6	627.7	627.8	628.0	628.1	628.3	628.6	628.8	629.1
145°	647.3	647.5	647.5	647.5	647.5	647.5	647.5	647.6	647.8	647.9	648.0
147.5°	664.8	665.2	665.1	665.0	664.9	664.8	664.7	664.8	664.9	665.0	665.1
150°	681.5	681.8	681.7	681.6	681.5	681.3	681.2	681.2	681.2	681.2	681.2
152.5°	695.9	696.1	696.0	695.7	695.5	695.2	695.0	695.2	695.5	695.7	696.0
155°	708.6	708.7	708.5	708.1	707.8	707.4	707.0	707.5	708.0	708.5	709.0
157.5°	720.1	720.1	719.8	719.3	718.8	718.3	717.8	718.4	719.1	719.7	720.4
160°	728.9	728.7	728.6	728.5	728.4	728.2	728.1	728.9	729.6	730.4	731.1
162.5°	737.5	737.2	737.1	737.0	736.9	736.8	736.7	737.5	738.2	739.0	739.7
165°	744.4	744.1	744.1	744.1	744.1	744.1	744.1	745.1	746.1	747.2	748.2
167.5°	750.7	750.4	750.3	750.2	750.1	749.9	749.8	751.0	752.1	753.3	754.4
170°	755.4	755.0	755.1	755.2	755.3	755.4	755.5	756.5	757.5	758.6	759.6
172.5°	758.8	758.4	758.5	758.6	758.7	758.9	759.0	760.0	761.0	762.0	763.0
175°	761.1	760.7	760.8	760.9	761.0	761.2	761.3	762.4	763.6	764.7	765.8
177.5°	762.2	761.8	761.9	762.2	762.5	762.7	763.0	764.0	765.0	766.0	767.0
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
95°	16.0	16.1	16.2	16.3	16.5	16.6	16.5	16.3	16.2	16.1	16.0
97.5°	15.4	15.5	15.6	15.7	15.9	16.0	15.9	15.7	15.6	15.5	15.4
100°	15.4	15.5	15.6	15.7	15.9	16.0	15.9	15.7	15.6	15.5	15.4
102.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
105°	183.5	181.2	176.6	172.1	167.5	162.9	167.5	172.1	176.6	181.2	183.5
107.5°	217.7	218.0	218.5	219.0	219.5	220.0	219.5	219.0	218.5	218.0	217.7
110°	253.2	253.4	253.8	254.1	254.5	254.9	254.5	254.1	253.8	253.4	253.2

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	287.5	287.8	288.3	288.8	289.3	289.8	289.3	288.8	288.3	287.8	287.5
115°	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5	323.5
117.5°	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3	358.3
120°	392.1	392.0	391.7	391.4	391.2	390.9	391.2	391.4	391.7	392.0	392.1
122.5°	424.1	424.0	423.7	423.4	423.2	422.9	423.2	423.4	423.7	424.0	424.1
125°	454.4	454.5	454.6	454.7	454.8	454.9	454.8	454.7	454.6	454.5	454.4
127.5°	483.5	483.4	483.3	483.2	483.0	482.9	483.0	483.2	483.3	483.4	483.5
130°	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5
132.5°	538.4	538.3	538.2	538.1	537.9	537.8	537.9	538.1	538.2	538.3	538.4
135°	562.9	563.0	563.3	563.6	563.8	564.1	563.8	563.6	563.3	563.0	562.9
137.5°	586.9	586.8	586.7	586.6	586.5	586.4	586.5	586.6	586.7	586.8	586.9
140°	609.2	609.3	609.4	609.5	609.7	609.8	609.7	609.5	609.4	609.3	609.2
142.5°	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2	629.2
145°	648.1	648.2	648.5	648.7	649.0	649.2	649.0	648.7	648.5	648.2	648.1
147.5°	665.2	665.3	665.4	665.5	665.7	665.8	665.7	665.5	665.4	665.3	665.2
150°	681.2	681.3	681.4	681.5	681.7	681.8	681.7	681.5	681.4	681.3	681.2
152.5°	696.1	696.0	695.9	695.8	695.6	695.5	695.6	695.8	695.9	696.0	696.1
155°	709.2	709.0	708.6	708.3	707.9	707.5	707.9	708.3	708.6	709.0	709.2
157.5°	720.7	720.4	719.7	719.1	718.4	717.8	718.4	719.1	719.7	720.4	720.7
160°	731.5	731.1	730.4	729.6	728.9	728.1	728.9	729.6	730.4	731.1	731.5
162.5°	740.1	739.7	738.8	737.9	737.0	736.1	737.0	737.9	738.8	739.7	740.1
165°	748.7	748.1	747.0	745.8	744.7	743.5	744.7	745.8	747.0	748.1	748.7
167.5°	755.0	754.4	753.1	751.8	750.5	749.2	750.5	751.8	753.1	754.4	755.0
170°	760.1	759.5	758.2	756.9	755.7	754.4	755.7	756.9	758.2	759.5	760.1
172.5°	763.5	762.8	761.4	760.1	758.7	757.3	758.7	760.1	761.4	762.8	763.5
175°	766.4	765.6	764.1	762.6	761.0	759.5	761.0	762.6	764.1	765.6	766.4
177.5°	767.5	766.7	765.2	763.7	762.2	760.7	762.2	763.7	765.2	766.7	767.5
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	15.0	14.3	13.5	12.8	12.0	11.0	10.0	8.9	7.9	7.4	7.5
95°	15.6	14.9	14.1	13.4	12.6	12.5	12.3	12.2	12.1	12.0	14.2
97.5°	15.1	14.5	13.8	13.2	12.6	25.9	39.3	52.6	65.9	72.6	71.2
100°	16.5	18.6	20.8	22.9	25.1	42.6	60.2	77.7	95.2	104.0	102.9
102.5°	30.9	59.5	88.0	116.6	145.2	143.7	142.1	140.6	139.1	138.3	137.5
105°	182.9	181.8	180.6	179.5	178.3	177.7	177.1	176.4	175.8	175.5	175.1
107.5°	217.4	216.8	216.1	215.5	214.9	214.0	213.1	212.2	211.3	210.9	210.7
110°	253.1	252.8	252.5	252.3	252.0	251.2	250.5	249.7	249.0	248.6	248.4

TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	287.6	287.7	287.8	287.9	288.0	287.8	287.5	287.3	287.0	286.9	286.5
115°	323.4	323.1	322.8	322.6	322.3	322.4	322.6	322.7	322.8	322.9	322.7
117.5°	358.4	358.5	358.6	358.8	358.9	358.5	358.1	357.8	357.4	357.2	356.9
120°	392.0	391.7	391.4	391.2	390.9	391.0	391.2	391.3	391.4	391.5	391.2
122.5°	424.0	423.9	423.8	423.6	423.5	423.2	423.0	422.7	422.4	422.3	422.2
125°	454.2	453.8	453.4	453.0	452.6	452.9	453.1	453.4	453.7	453.8	453.5
127.5°	483.6	483.7	483.8	484.0	484.1	483.5	482.8	482.2	481.5	481.2	481.1
130°	511.4	511.3	511.2	511.0	510.9	510.5	510.1	509.8	509.4	509.2	509.1
132.5°	538.3	538.2	538.1	537.9	537.8	537.3	536.8	536.3	535.8	535.5	535.4
135°	562.8	562.5	562.3	562.0	561.8	561.3	560.8	560.3	559.8	559.5	559.6
137.5°	586.8	586.5	586.3	586.0	585.8	585.2	584.5	583.9	583.2	582.9	582.9
140°	609.0	608.6	608.3	607.9	607.5	607.3	607.0	606.8	606.5	606.4	606.3
142.5°	629.1	628.8	628.6	628.3	628.1	628.0	627.8	627.7	627.6	627.5	627.2
145°	648.0	647.9	647.8	647.6	647.5	647.5	647.5	647.5	647.5	647.5	647.3
147.5°	665.1	665.0	664.9	664.8	664.7	664.8	664.9	665.0	665.1	665.2	664.8
150°	681.2	681.2	681.2	681.2	681.2	681.3	681.5	681.6	681.7	681.8	681.5
152.5°	696.0	695.7	695.5	695.2	695.0	695.2	695.5	695.7	696.0	696.1	695.9
155°	709.0	708.5	708.0	707.5	707.0	707.4	707.8	708.1	708.5	708.7	708.6
157.5°	720.4	719.7	719.1	718.4	717.8	718.3	718.8	719.3	719.8	720.1	720.1
160°	731.1	730.4	729.6	728.9	728.1	728.2	728.4	728.5	728.6	728.7	728.9
162.5°	739.7	739.0	738.2	737.5	736.7	736.8	736.9	737.0	737.1	737.2	737.5
165°	748.2	747.2	746.1	745.1	744.1	744.1	744.1	744.1	744.1	744.1	744.4
167.5°	754.4	753.3	752.1	751.0	749.8	749.9	750.1	750.2	750.3	750.4	750.7
170°	759.6	758.6	757.5	756.5	755.5	755.4	755.3	755.2	755.1	755.0	755.4
172.5°	763.0	762.0	761.0	760.0	759.0	758.9	758.7	758.6	758.5	758.4	758.8
175°	765.8	764.7	763.6	762.4	761.3	761.2	761.0	760.9	760.8	760.7	761.1
177.5°	767.0	766.0	765.0	764.0	763.0	762.7	762.5	762.2	761.9	761.8	762.2
180°	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1	764.1



TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

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°	7.8	8.1	8.3	8.6
95°	18.5	22.8	27.1	31.4
97.5°	68.4	65.6	62.8	60.0
100°	100.6	98.3	96.0	93.7
102.5°	136.0	134.5	132.9	131.4
105°	174.3	173.6	172.8	172.0
107.5°	210.3	210.0	209.6	209.2
110°	248.0	247.7	247.3	246.9



TEST NUMBER: P1000696

CATALOG NUMBER: SA4XXDIP-B1020D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	285.8	285.0	284.3	283.5
115°	322.3	322.0	321.6	321.2
117.5°	356.4	355.9	355.4	354.9
120°	390.7	390.2	389.7	389.2
122.5°	421.9	421.7	421.4	421.2
125°	453.0	452.5	452.0	451.5
127.5°	481.0	480.9	480.7	480.6
130°	509.0	508.9	508.7	508.6
132.5°	535.1	534.9	534.6	534.4
135°	559.7	559.8	560.0	560.1
137.5°	582.9	582.9	582.9	582.9
140°	606.0	605.7	605.5	605.2
142.5°	626.7	626.2	625.7	625.2
145°	646.9	646.6	646.2	645.8
147.5°	664.1	663.3	662.6	661.8
150°	681.0	680.5	680.0	679.5
152.5°	695.5	695.2	694.8	694.4
155°	708.5	708.4	708.2	708.1
157.5°	720.1	720.1	720.1	720.1
160°	729.3	729.6	730.0	730.4
162.5°	738.0	738.5	739.0	739.5
165°	745.1	745.7	746.4	747.0
167.5°	751.4	752.0	752.7	753.3
170°	756.1	756.9	757.6	758.4
172.5°	759.5	760.3	761.0	761.8
175°	761.8	762.6	763.3	764.1
177.5°	763.1	764.0	764.9	765.8
180°	764.1	764.1	764.1	764.1

(END OF REPORT)