

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: P1001944

Luminaire Tested: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001944
REPORT IS A COMBINATION OF REPORTS P996569 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B795D810UB2750-4F0-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

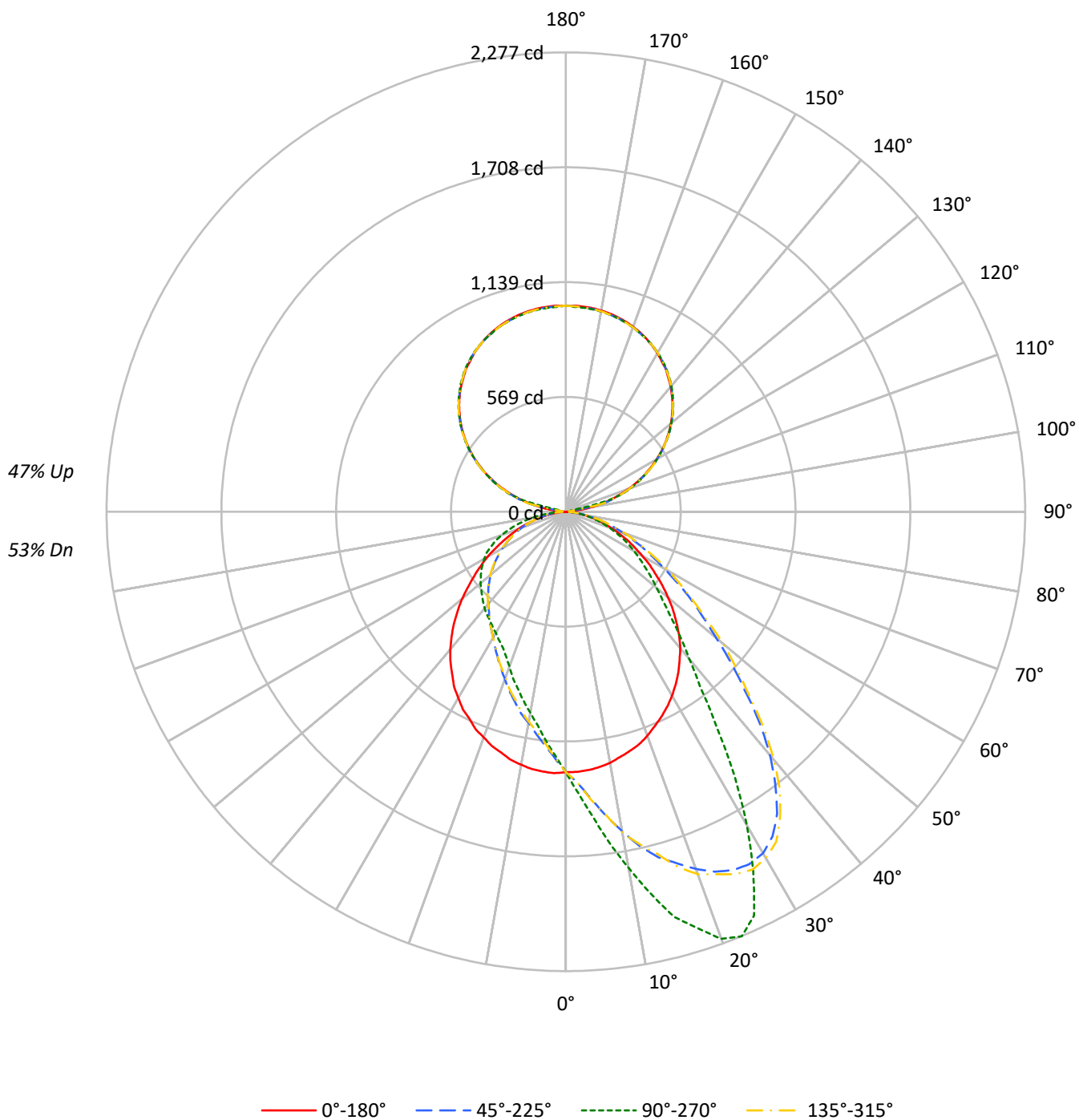
Lumens per Lamp: N/A
Luminaire Lumens: 6722.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	43
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	41	39	37
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	25
7	59	47	39	34	55	44	37	32	38	33	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10523	10523	10523	10523
5°	10496	12072	10558	9071
10°	10419	14085	10498	7959
15°	10293	16237	10365	7121
20°	10160	17607	10233	6384
25°	9965	17405	10061	5841
30°	9775	14386	9895	5561
35°	9509	10721	9613	5391
40°	9197	8076	9286	5309
45°	8721	6482	8830	5195
50°	8153	5461	8271	5142
55°	7485	4753	7602	5081
60°	6836	4185	7036	4997
65°	6227	3601	6285	4789
70°	5511	2962	5629	4409
75°	4807	2277	4775	3747
80°	3780	1496	3739	2845
85°	2489	673	2336	1658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 13607 cd/sqm

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.9
10°-20°	387.7	5.8
20°-30°	615.8	9.2
30°-40°	684.3	10.2
40°-50°	622.3	9.3
50°-60°	508.5	7.6
60°-70°	363.0	5.4
70°-80°	199.8	3.0
80°-90°	56.1	0.8
90°-100°	33.9	0.5
100°-110°	223.1	3.3
110°-120°	426.1	6.3
120°-130°	541.0	8.0
130°-140°	578.7	8.6
140°-150°	541.2	8.1
150°-160°	436.4	6.5
160°-170°	281.4	4.2
170°-180°	97.0	1.4
0°-30°	1129.1	16.8
0°-40°	1813.4	27.0
0°-60°	2944.3	43.8
0°-90°	3563.1	53.0
90°-120°	683.2	10.2
90°-150°	2344.0	34.9
90°-180°	3159.0	47.0
0°-180°	6722.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1290	1290	1290	1290	1290	
5°	1285	1514	1293	1138	1285	122
15°	1227	2080	1236	912	1227	346
25°	1120	2208	1131	741	1120	516
35°	972	1306	983	656	972	607
45°	775	732	785	587	775	598
55°	545	479	554	512	545	490
65°	340	308	343	410	340	336
75°	167	154	166	253	167	175
85°	34	32	32	79	34	40
90°	2	23	2	23	2	4
95°	42	22	42	22	42	52
105°	230	218	230	218	230	241
115°	429	432	429	432	429	422
125°	603	608	603	608	603	539
135°	748	754	748	754	748	577
145°	863	867	863	867	863	539
155°	946	945	946	945	946	436
165°	998	993	998	993	998	282
175°	1021	1015	1021	1015	1021	97
180°	1021	1021	1021	1021	1021	

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1290.5	1303.3	1308.7	1312.9	1326.8	1331.1	1332.2	1338.6	1343.9	1345.0	1345.0
5°	1285.1	1305.5	1321.5	1336.5	1358.9	1368.5	1380.3	1393.1	1410.2	1420.9	1426.3
7.5°	1276.6	1306.5	1331.1	1356.8	1387.8	1407.0	1417.7	1451.9	1475.5	1494.7	1518.2
10°	1263.8	1302.2	1337.5	1374.9	1418.8	1442.3	1465.8	1507.5	1540.7	1578.1	1608.0
12.5°	1244.5	1294.8	1337.5	1389.9	1444.4	1472.2	1500.0	1572.7	1611.2	1644.4	1697.8
15°	1227.4	1277.7	1338.6	1392.1	1459.4	1501.1	1541.7	1588.8	1649.7	1721.4	1772.7
17.5°	1208.2	1271.2	1327.9	1402.7	1477.6	1517.1	1550.3	1623.0	1708.5	1779.1	1826.1
20°	1181.4	1245.6	1320.4	1399.5	1488.3	1519.3	1563.1	1660.4	1737.4	1806.9	1883.9
22.5°	1150.4	1225.3	1304.4	1380.3	1472.2	1537.5	1585.6	1671.1	1764.1	1844.3	1930.9
25°	1120.5	1201.7	1271.2	1374.9	1472.2	1516.1	1570.6	1672.2	1773.7	1871.0	1959.8
27.5°	1088.4	1164.3	1258.4	1340.7	1450.9	1499.0	1557.8	1669.0	1777.0	1874.3	1969.4
30°	1053.1	1134.4	1212.4	1309.7	1416.6	1478.7	1533.2	1654.0	1764.1	1865.7	1954.4
32.5°	1013.6	1090.6	1173.9	1265.9	1378.2	1441.2	1509.7	1633.7	1751.3	1839.0	1907.4
35°	971.9	1049.9	1122.6	1216.7	1332.2	1395.3	1461.6	1598.4	1714.9	1786.6	1826.1
37.5°	925.9	999.7	1071.3	1164.3	1279.8	1347.2	1414.5	1547.1	1657.2	1717.1	1706.4
40°	882.1	948.4	1014.6	1102.3	1223.1	1294.8	1353.6	1487.2	1583.4	1609.1	1573.8
42.5°	831.8	888.5	952.6	1042.4	1160.0	1227.4	1301.2	1423.1	1494.7	1484.0	1424.1
45°	775.1	825.4	889.5	974.0	1093.8	1163.3	1225.3	1340.7	1393.1	1366.4	1257.3
47.5°	720.6	769.8	822.2	906.7	1023.2	1082.0	1145.1	1248.8	1278.7	1222.1	1113.0
50°	661.8	702.4	757.0	837.2	946.2	1008.2	1060.6	1144.0	1154.7	1085.2	971.9
52.5°	605.1	639.4	691.8	770.9	872.4	921.6	972.9	1046.7	1038.2	966.5	857.5
55°	545.3	577.4	625.5	698.2	788.0	835.0	878.9	944.1	925.9	852.1	757.0
57.5°	495.0	517.5	564.5	631.9	705.7	757.0	794.4	845.7	817.9	744.1	655.4
60°	437.3	465.1	504.6	559.2	631.9	666.1	699.2	733.4	714.2	643.6	564.5
62.5°	384.9	406.3	440.5	492.9	549.6	580.6	615.8	637.2	618.0	552.8	486.5
65°	340.0	357.1	383.8	426.6	481.1	506.8	527.1	547.4	531.4	470.4	422.3
67.5°	290.8	305.8	328.2	362.4	408.4	426.6	445.8	459.7	441.6	400.9	353.9
70°	247.0	257.7	279.1	304.7	336.8	353.9	369.9	383.8	367.8	333.6	298.3
72.5°	202.1	210.6	229.9	248.0	276.9	288.7	300.4	311.1	305.8	273.7	244.8
75°	166.8	170.0	182.8	197.8	216.0	228.8	237.4	243.8	239.5	213.8	195.7
77.5°	126.2	130.4	140.1	151.8	167.9	175.3	180.7	187.1	181.8	161.4	148.6
80°	91.9	93.0	98.4	109.1	119.7	120.8	126.2	134.7	131.5	117.6	108.0
82.5°	58.8	62.0	64.2	70.6	78.0	80.2	83.4	85.5	84.5	75.9	72.7
85°	34.2	34.2	36.4	40.6	42.8	46.0	47.0	48.1	50.3	44.9	41.7
87.5°	15.0	16.0	16.0	17.1	19.2	19.2	20.3	21.4	22.5	21.4	18.2
90°	2.3	4.2	6.0	7.9	9.8	10.7	11.4	12.7	14.1	15.4	16.8
92.5°	11.5	11.1	10.8	10.4	10.1	9.9	10.6	11.9	13.3	14.6	16.0
95°	42.0	36.2	30.4	24.7	18.9	16.0	16.1	16.3	16.4	16.6	16.8
97.5°	80.2	83.9	87.7	91.4	95.1	97.0	88.1	70.3	52.4	34.6	16.8
100°	125.2	128.3	131.3	134.4	137.5	139.0	127.3	103.9	80.4	57.0	33.6
102.5°	175.6	177.6	179.7	181.7	183.8	184.8	185.8	187.8	189.9	191.9	193.9
105°	229.8	230.8	231.8	232.9	233.9	234.4	234.8	235.7	236.5	237.4	238.2
107.5°	279.5	280.0	280.5	281.0	281.5	281.7	282.3	283.5	284.7	285.9	287.1
110°	329.9	330.4	330.9	331.4	331.9	332.1	332.6	333.6	334.7	335.7	336.7

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	378.7	379.7	380.7	381.8	382.8	383.3	383.5	383.8	384.1	384.5	384.8
115°	429.1	429.6	430.1	430.6	431.1	431.4	431.3	431.1	431.0	430.8	430.6
117.5°	474.2	474.9	475.5	476.2	476.9	477.2	477.5	478.0	478.5	479.0	479.5
120°	520.0	520.7	521.3	522.0	522.7	523.0	522.9	522.8	522.6	522.5	522.3
122.5°	562.7	563.1	563.4	563.8	564.1	564.3	564.5	564.8	565.1	565.5	565.8
125°	603.2	603.9	604.6	605.3	606.0	606.3	606.1	605.8	605.4	605.1	604.7
127.5°	642.1	642.3	642.5	642.6	642.8	642.9	643.3	644.2	645.0	645.9	646.7
130°	679.6	679.8	679.9	680.1	680.2	680.3	680.6	681.1	681.6	682.1	682.6
132.5°	713.9	714.2	714.6	714.9	715.2	715.4	715.7	716.4	717.1	717.8	718.5
135°	748.3	748.1	747.9	747.8	747.6	747.5	747.8	748.5	749.2	749.9	750.6
137.5°	778.8	778.8	778.8	778.8	778.8	778.8	779.2	780.1	780.9	781.8	782.6
140°	808.6	808.9	809.3	809.6	809.9	810.1	810.3	810.6	810.9	811.3	811.6
142.5°	835.3	836.0	836.7	837.4	838.1	838.4	838.5	838.6	838.8	838.9	839.1
145°	862.8	863.3	863.8	864.3	864.8	865.1	865.1	865.1	865.1	865.1	865.1
147.5°	884.2	885.2	886.2	887.3	888.3	888.8	888.7	888.5	888.4	888.2	888.0
150°	907.9	908.6	909.2	909.9	910.6	910.9	910.8	910.6	910.5	910.3	910.1
152.5°	927.7	928.2	928.7	929.2	929.7	930.0	929.8	929.5	929.2	928.8	928.5
155°	946.0	946.2	946.4	946.5	946.7	946.8	946.5	946.0	945.5	945.0	944.5
157.5°	962.1	962.1	962.1	962.1	962.1	962.1	961.8	961.1	960.4	959.7	959.0
160°	975.8	975.3	974.8	974.3	973.8	973.5	973.4	973.3	973.1	973.0	972.8
162.5°	988.0	987.3	986.7	986.0	985.3	985.0	984.9	984.7	984.6	984.4	984.2
165°	998.0	997.1	996.3	995.4	994.5	994.1	994.1	994.1	994.1	994.1	994.1
167.5°	1006.3	1005.5	1004.6	1003.8	1002.9	1002.5	1002.4	1002.3	1002.1	1002.0	1001.8
170°	1013.2	1012.2	1011.2	1010.1	1009.1	1008.6	1008.7	1008.9	1009.0	1009.2	1009.4
172.5°	1017.8	1016.8	1015.8	1014.7	1013.7	1013.2	1013.3	1013.5	1013.6	1013.8	1014.0
175°	1020.9	1019.9	1018.9	1017.8	1016.8	1016.3	1016.4	1016.5	1016.7	1016.8	1017.0
177.5°	1023.1	1021.9	1020.7	1019.6	1018.4	1017.8	1018.0	1018.3	1018.6	1019.0	1019.3
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1348.2	1367.5	1376.0	1378.2	1389.9	1382.4	1385.6	1384.6	1393.1	1394.2	1394.2
5°	1446.6	1469.0	1476.5	1487.2	1503.2	1507.5	1504.3	1510.7	1522.5	1513.9	1526.8
7.5°	1550.3	1574.9	1592.0	1615.5	1620.9	1634.8	1643.3	1650.8	1652.9	1654.0	1656.1
10°	1646.5	1677.5	1701.0	1740.6	1749.2	1756.6	1794.1	1779.1	1798.3	1791.9	1794.1
12.5°	1724.6	1785.5	1804.8	1871.0	1877.5	1903.1	1901.0	1924.5	1928.8	1937.3	1928.8
15°	1827.2	1897.8	1928.8	1966.2	1987.6	2017.5	2022.9	2054.9	2067.8	2079.5	2067.8
17.5°	1921.3	1958.7	2037.8	2067.8	2081.7	2097.7	2138.3	2150.1	2169.3	2161.9	2183.2
20°	1968.3	2021.8	2105.2	2156.5	2177.9	2192.9	2227.1	2245.3	2252.7	2252.7	2254.9
22.5°	2010.0	2087.0	2149.0	2207.8	2227.1	2237.8	2258.1	2272.0	2275.2	2277.3	2279.5
25°	2047.5	2117.0	2167.2	2200.3	2207.8	2207.8	2219.6	2211.0	2197.1	2207.8	2214.2
27.5°	2047.5	2096.6	2119.1	2130.9	2130.9	2102.0	2084.9	2049.6	2019.7	2011.1	2030.3
30°	2013.2	2035.7	2004.7	1975.8	1953.4	1934.1	1866.8	1813.3	1802.6	1795.1	1824.0
32.5°	1934.1	1905.3	1844.3	1760.9	1727.8	1683.9	1631.5	1590.9	1566.3	1557.8	1551.4
35°	1794.1	1719.2	1640.1	1527.8	1504.3	1448.7	1377.1	1347.2	1306.5	1305.5	1319.4
37.5°	1641.2	1525.7	1440.2	1333.3	1300.1	1241.3	1173.9	1142.9	1115.1	1093.8	1119.4
40°	1462.6	1362.1	1231.7	1144.0	1097.0	1066.0	1009.3	975.1	962.3	951.6	967.6
42.5°	1295.8	1185.7	1084.1	994.3	955.8	920.6	883.1	850.0	840.4	839.3	851.1
45°	1130.1	1022.1	928.0	851.1	826.5	805.1	768.7	759.1	743.1	732.4	737.7
47.5°	997.5	886.3	808.3	749.5	728.1	709.9	686.4	670.4	656.5	652.2	658.6
50°	867.1	792.3	712.1	662.9	646.8	629.7	611.6	596.6	590.2	585.9	590.2
52.5°	762.3	682.1	627.6	588.0	572.0	559.2	546.3	539.9	531.4	533.5	537.8
55°	668.2	597.7	551.7	522.8	513.2	507.9	491.8	484.3	481.1	479.0	481.1
57.5°	579.5	528.2	494.0	469.4	456.5	453.3	440.5	440.5	437.3	434.1	435.2
60°	508.9	465.1	431.9	412.7	410.6	405.2	396.7	395.6	388.1	391.3	392.4
62.5°	437.3	402.0	379.6	367.8	360.3	358.2	352.8	351.8	348.5	349.6	347.5
65°	380.6	351.8	329.3	319.7	316.5	315.4	311.1	307.9	305.8	307.9	305.8
67.5°	324.0	304.7	287.6	278.0	273.7	272.6	269.4	267.3	268.4	265.2	267.3
70°	270.5	251.3	240.6	235.2	233.1	229.9	229.9	229.9	229.9	227.7	226.7
72.5°	227.7	208.5	201.0	197.8	195.7	194.6	191.4	192.5	191.4	190.3	194.6
75°	180.7	168.9	161.4	158.2	160.4	157.2	154.0	156.1	152.9	154.0	158.2
77.5°	136.9	131.5	127.2	125.1	123.0	120.8	120.8	118.7	118.7	118.7	118.7
80°	99.4	98.4	90.9	89.8	89.8	87.7	87.7	87.7	87.7	86.6	87.7
82.5°	66.3	65.2	63.1	62.0	59.9	60.9	60.9	58.8	58.8	57.7	58.8
85°	38.5	38.5	36.4	35.3	34.2	35.3	33.1	32.1	33.1	32.1	33.1
87.5°	18.2	16.0	17.1	16.0	13.9	15.0	12.8	13.9	12.8	11.8	13.9
90°	17.8	18.8	19.9	20.9	21.4	21.6	21.9	22.2	22.6	22.9	22.6
92.5°	17.0	18.0	19.1	20.1	20.6	20.6	20.6	20.6	20.6	20.6	20.6
95°	17.8	18.8	19.9	20.9	21.4	21.5	21.6	21.8	21.9	22.1	21.9
97.5°	17.6	18.5	19.3	20.2	20.6	20.7	20.9	21.0	21.2	21.4	21.2
100°	30.7	27.8	24.9	22.0	20.6	20.7	20.9	21.0	21.2	21.4	21.2
102.5°	155.7	117.5	79.4	41.2	22.1	22.1	22.1	22.1	22.1	22.1	22.1
105°	239.7	241.3	242.8	244.3	245.1	242.0	235.9	229.8	223.7	217.6	223.7
107.5°	287.9	288.8	289.6	290.5	290.9	291.2	291.9	292.6	293.3	294.0	293.3
110°	337.0	337.4	337.7	338.0	338.2	338.5	339.0	339.5	340.0	340.5	340.0

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	384.6	384.5	384.3	384.2	384.1	384.4	385.1	385.8	386.4	387.1	386.4
115°	431.0	431.3	431.7	432.0	432.2	432.2	432.2	432.2	432.2	432.2	432.2
117.5°	479.3	479.1	479.0	478.8	478.7	478.7	478.7	478.7	478.7	478.7	478.7
120°	522.6	523.0	523.3	523.6	523.8	523.6	523.3	523.0	522.6	522.3	522.6
122.5°	566.0	566.1	566.3	566.4	566.5	566.3	566.0	565.7	565.3	565.0	565.3
125°	605.2	605.7	606.2	606.7	607.0	607.1	607.3	607.4	607.6	607.8	607.6
127.5°	646.5	646.4	646.2	646.1	646.0	645.9	645.7	645.6	645.4	645.2	645.4
130°	682.8	683.0	683.1	683.3	683.4	683.4	683.4	683.4	683.4	683.4	683.4
132.5°	718.7	718.9	719.0	719.2	719.3	719.2	719.0	718.9	718.7	718.5	718.7
135°	750.9	751.3	751.6	751.9	752.1	752.3	752.6	752.9	753.3	753.6	753.3
137.5°	783.0	783.3	783.7	784.0	784.2	784.1	783.9	783.8	783.6	783.4	783.6
140°	812.1	812.6	813.1	813.6	813.9	814.0	814.2	814.3	814.5	814.7	814.5
142.5°	839.5	839.8	840.2	840.5	840.7	840.7	840.7	840.7	840.7	840.7	840.7
145°	865.3	865.5	865.6	865.8	865.9	866.1	866.4	866.7	867.1	867.4	867.1
147.5°	888.2	888.4	888.5	888.7	888.8	888.9	889.0	889.2	889.3	889.5	889.3
150°	910.1	910.1	910.1	910.1	910.1	910.2	910.4	910.5	910.7	910.9	910.7
152.5°	928.8	929.2	929.5	929.8	930.0	929.9	929.7	929.6	929.4	929.2	929.4
155°	945.2	945.9	946.6	947.3	947.6	947.3	946.8	946.3	945.8	945.3	945.8
157.5°	959.8	960.7	961.5	962.4	962.8	962.4	961.5	960.7	959.8	959.0	959.8
160°	973.8	974.8	975.8	976.8	977.3	976.8	975.8	974.8	973.8	972.8	973.8
162.5°	985.2	986.2	987.3	988.3	988.8	988.2	987.0	985.8	984.6	983.4	984.6
165°	995.5	996.8	998.2	999.5	1000.2	999.4	997.9	996.4	994.9	993.4	994.9
167.5°	1003.3	1004.8	1006.3	1007.8	1008.6	1007.8	1006.1	1004.4	1002.7	1001.0	1002.7
170°	1010.8	1012.1	1013.5	1014.8	1015.5	1014.7	1013.0	1011.3	1009.6	1007.9	1009.6
172.5°	1015.4	1016.7	1018.1	1019.4	1020.1	1019.2	1017.3	1015.4	1013.6	1011.7	1013.6
175°	1018.5	1020.1	1021.6	1023.1	1023.9	1022.9	1020.8	1018.8	1016.7	1014.7	1016.7
177.5°	1020.7	1022.0	1023.4	1024.7	1025.4	1024.4	1022.4	1020.3	1018.3	1016.3	1018.3
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1392.1	1388.8	1384.6	1384.6	1379.2	1379.2	1370.7	1355.7	1342.9	1338.6	1340.7
5°	1510.7	1511.8	1505.4	1500.0	1490.4	1482.9	1469.0	1442.3	1433.8	1416.6	1404.9
7.5°	1646.5	1642.2	1630.5	1621.9	1619.8	1602.7	1572.7	1540.7	1515.0	1497.9	1473.3
10°	1799.4	1782.3	1765.2	1759.8	1747.0	1718.2	1683.9	1648.7	1613.4	1576.0	1534.3
12.5°	1927.7	1894.6	1893.5	1880.7	1856.1	1840.0	1799.4	1749.2	1688.2	1646.5	1599.5
15°	2065.6	2034.6	2009.0	1985.4	1973.7	1926.6	1892.4	1829.3	1756.6	1711.7	1679.7
17.5°	2164.0	2150.1	2106.3	2095.6	2079.5	2025.0	1970.5	1908.5	1845.4	1782.3	1695.7
20°	2243.1	2234.6	2205.7	2190.7	2165.1	2122.3	2056.0	1984.4	1911.7	1821.9	1740.6
22.5°	2277.3	2266.6	2243.1	2230.3	2214.2	2177.9	2121.2	2040.0	1944.8	1864.6	1778.0
25°	2210.0	2229.2	2222.8	2217.5	2211.0	2189.7	2146.9	2075.3	1982.2	1891.4	1783.4
27.5°	2058.1	2091.3	2123.4	2127.6	2138.3	2146.9	2129.8	2078.5	2000.4	1904.2	1785.5
30°	1853.9	1868.9	1934.1	1953.4	1968.3	2022.9	2054.9	2042.1	1982.2	1895.6	1786.6
32.5°	1592.0	1631.5	1697.8	1743.8	1784.4	1845.4	1928.8	1961.9	1940.5	1870.0	1762.0
35°	1343.9	1391.0	1468.0	1526.8	1567.4	1654.0	1752.4	1824.0	1850.7	1815.4	1719.2
37.5°	1140.8	1197.5	1265.9	1288.3	1335.4	1442.3	1578.1	1677.5	1742.7	1746.0	1671.1
40°	987.9	1016.8	1071.3	1105.5	1151.5	1241.3	1373.9	1505.4	1603.8	1636.9	1597.3
42.5°	858.5	881.0	921.6	963.3	1005.0	1073.4	1195.3	1318.3	1450.9	1517.1	1516.1
45°	755.9	779.4	807.2	841.4	870.3	944.1	1040.3	1166.5	1280.9	1383.5	1409.2
47.5°	666.1	686.4	720.6	735.6	754.8	824.3	907.7	1025.3	1144.0	1261.6	1291.6
50°	599.8	616.9	640.4	650.1	671.4	722.8	791.2	886.3	1017.8	1125.8	1181.4
52.5°	539.9	552.8	570.9	578.4	593.4	631.9	693.9	768.7	877.8	989.0	1067.0
55°	488.6	497.2	510.0	518.5	529.2	563.5	609.4	676.8	770.9	867.1	943.0
57.5°	440.5	446.9	459.7	464.0	472.6	499.3	531.4	588.0	674.6	760.2	834.0
60°	395.6	399.9	407.4	417.0	423.4	441.6	471.5	518.5	588.0	666.1	726.0
62.5°	352.8	359.2	361.4	365.7	371.0	388.1	411.6	445.8	506.8	570.9	634.0
65°	309.0	314.3	318.6	319.7	325.0	337.9	359.2	389.2	428.7	484.3	543.1
67.5°	268.4	271.6	273.7	278.0	283.3	289.7	306.9	329.3	365.7	410.6	457.6
70°	230.9	230.9	234.1	235.2	241.6	249.1	256.6	278.0	310.1	346.4	378.5
72.5°	190.3	195.7	194.6	199.9	198.9	204.2	213.8	227.7	251.3	280.1	311.1
75°	155.0	158.2	158.2	158.2	160.4	164.7	170.0	182.8	201.0	224.5	242.7
77.5°	120.8	123.0	123.0	123.0	124.0	128.3	133.6	142.2	155.0	168.9	179.6
80°	86.6	88.7	88.7	90.9	90.9	91.9	97.3	101.6	108.0	118.7	129.4
82.5°	58.8	59.9	62.0	62.0	60.9	63.1	64.2	68.4	74.8	77.0	84.5
85°	32.1	33.1	34.2	34.2	35.3	37.4	36.4	40.6	40.6	44.9	47.0
87.5°	12.8	15.0	15.0	13.9	15.0	15.0	15.0	17.1	18.2	19.2	18.2
90°	22.2	21.9	21.6	21.4	20.9	19.9	18.8	17.8	16.8	15.4	14.1
92.5°	20.6	20.6	20.6	20.6	20.1	19.1	18.0	17.0	16.0	14.6	13.3
95°	21.8	21.6	21.5	21.4	20.9	19.9	18.8	17.8	16.8	16.6	16.4
97.5°	21.0	20.9	20.7	20.6	20.2	19.3	18.5	17.6	16.8	34.6	52.4
100°	21.0	20.9	20.7	20.6	22.0	24.9	27.8	30.7	33.6	57.0	80.4
102.5°	22.1	22.1	22.1	22.1	41.2	79.4	117.5	155.7	193.9	191.9	189.9
105°	229.8	235.9	242.0	245.1	244.3	242.8	241.3	239.7	238.2	237.4	236.5
107.5°	292.6	291.9	291.2	290.9	290.5	289.6	288.8	287.9	287.1	285.9	284.7
110°	339.5	339.0	338.5	338.2	338.0	337.7	337.4	337.0	336.7	335.7	334.7



TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	385.8	385.1	384.4	384.1	384.2	384.3	384.5	384.6	384.8	384.5	384.1
115°	432.2	432.2	432.2	432.2	432.0	431.7	431.3	431.0	430.6	430.8	431.0
117.5°	478.7	478.7	478.7	478.7	478.8	479.0	479.1	479.3	479.5	479.0	478.5
120°	523.0	523.3	523.6	523.8	523.6	523.3	523.0	522.6	522.3	522.5	522.6
122.5°	565.7	566.0	566.3	566.5	566.4	566.3	566.1	566.0	565.8	565.5	565.1
125°	607.4	607.3	607.1	607.0	606.7	606.2	605.7	605.2	604.7	605.1	605.4
127.5°	645.6	645.7	645.9	646.0	646.1	646.2	646.4	646.5	646.7	645.9	645.0
130°	683.4	683.4	683.4	683.4	683.3	683.1	683.0	682.8	682.6	682.1	681.6
132.5°	718.9	719.0	719.2	719.3	719.2	719.0	718.9	718.7	718.5	717.8	717.1
135°	752.9	752.6	752.3	752.1	751.9	751.6	751.3	750.9	750.6	749.9	749.2
137.5°	783.8	783.9	784.1	784.2	784.0	783.7	783.3	783.0	782.6	781.8	780.9
140°	814.3	814.2	814.0	813.9	813.6	813.1	812.6	812.1	811.6	811.3	810.9
142.5°	840.7	840.7	840.7	840.7	840.5	840.2	839.8	839.5	839.1	838.9	838.8
145°	866.7	866.4	866.1	865.9	865.8	865.6	865.5	865.3	865.1	865.1	865.1
147.5°	889.2	889.0	888.9	888.8	888.7	888.5	888.4	888.2	888.0	888.2	888.4
150°	910.5	910.4	910.2	910.1	910.1	910.1	910.1	910.1	910.1	910.3	910.5
152.5°	929.6	929.7	929.9	930.0	929.8	929.5	929.2	928.8	928.5	928.8	929.2
155°	946.3	946.8	947.3	947.6	947.3	946.6	945.9	945.2	944.5	945.0	945.5
157.5°	960.7	961.5	962.4	962.8	962.4	961.5	960.7	959.8	959.0	959.7	960.4
160°	974.8	975.8	976.8	977.3	976.8	975.8	974.8	973.8	972.8	973.0	973.1
162.5°	985.8	987.0	988.2	988.8	988.3	987.3	986.2	985.2	984.2	984.4	984.6
165°	996.4	997.9	999.4	1000.2	999.5	998.2	996.8	995.5	994.1	994.1	994.1
167.5°	1004.4	1006.1	1007.8	1008.6	1007.8	1006.3	1004.8	1003.3	1001.8	1002.0	1002.1
170°	1011.3	1013.0	1014.7	1015.5	1014.8	1013.5	1012.1	1010.8	1009.4	1009.2	1009.0
172.5°	1015.4	1017.3	1019.2	1020.1	1019.4	1018.1	1016.7	1015.4	1014.0	1013.8	1013.6
175°	1018.8	1020.8	1022.9	1023.9	1023.1	1021.6	1020.1	1018.5	1017.0	1016.8	1016.7
177.5°	1020.3	1022.4	1024.4	1025.4	1024.7	1023.4	1022.0	1020.7	1019.3	1019.0	1018.6
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1331.1	1326.8	1323.6	1323.6	1314.0	1304.4	1299.0	1296.9	1294.8	1286.2	1274.4
5°	1385.6	1371.7	1362.1	1352.5	1336.5	1319.4	1302.2	1292.6	1278.7	1259.5	1245.6
7.5°	1446.6	1413.4	1402.7	1391.0	1358.9	1330.0	1306.5	1286.2	1263.8	1239.2	1214.6
10°	1497.9	1462.6	1439.1	1418.8	1377.1	1338.6	1303.3	1273.4	1244.5	1212.4	1182.5
12.5°	1547.1	1496.8	1472.2	1442.3	1398.5	1342.9	1296.9	1259.5	1216.7	1183.6	1147.2
15°	1615.5	1531.0	1490.4	1471.2	1412.4	1347.2	1291.6	1236.0	1200.7	1150.4	1118.3
17.5°	1626.2	1557.8	1531.0	1481.9	1411.3	1337.5	1273.4	1217.8	1164.3	1119.4	1077.7
20°	1663.6	1573.8	1531.0	1500.0	1407.0	1332.2	1261.6	1190.0	1138.7	1090.6	1043.5
22.5°	1687.1	1585.6	1540.7	1491.5	1402.7	1312.9	1229.5	1167.5	1104.4	1055.3	1017.8
25°	1680.7	1579.2	1528.9	1482.9	1374.9	1285.1	1210.3	1131.2	1072.4	1018.9	969.7
27.5°	1677.5	1563.1	1509.7	1458.3	1356.8	1262.7	1168.6	1104.4	1039.2	977.2	940.9
30°	1669.0	1542.8	1480.8	1425.2	1319.4	1221.0	1140.8	1066.0	1000.7	944.1	896.0
32.5°	1640.1	1508.6	1448.7	1388.8	1278.7	1180.4	1099.1	1029.6	964.4	905.6	859.6
35°	1601.6	1468.0	1402.7	1339.7	1229.5	1130.1	1055.3	982.6	921.6	865.0	821.1
37.5°	1563.1	1420.9	1360.0	1287.3	1185.7	1082.0	1005.0	939.8	883.1	824.3	776.2
40°	1507.5	1365.3	1298.0	1236.0	1117.3	1020.0	949.4	890.6	835.0	779.4	738.8
42.5°	1431.6	1304.4	1234.9	1166.5	1055.3	959.0	890.6	838.2	785.8	739.9	695.0
45°	1354.6	1230.6	1168.6	1107.7	986.8	896.0	832.9	784.8	740.9	690.7	654.3
47.5°	1261.6	1156.8	1094.8	1035.0	920.6	829.7	771.9	727.0	686.4	644.7	610.5
50°	1166.5	1075.6	1018.9	956.9	847.8	765.5	708.9	671.4	638.3	598.7	570.9
52.5°	1063.8	984.7	936.6	876.7	780.5	704.6	646.8	609.4	581.6	552.8	528.2
55°	954.8	897.0	845.7	797.6	706.7	638.3	587.0	553.8	534.6	507.9	486.5
57.5°	856.4	800.8	769.8	715.3	636.2	568.8	528.2	500.4	477.9	461.9	444.8
60°	753.8	708.9	674.6	635.1	565.6	508.9	466.2	450.1	426.6	414.8	407.4
62.5°	655.4	623.3	591.2	561.3	499.3	445.8	413.8	393.5	379.6	367.8	361.4
65°	562.4	532.4	510.0	483.3	431.9	389.2	359.2	343.2	329.3	326.1	318.6
67.5°	471.5	458.7	434.1	412.7	368.9	335.7	313.3	293.0	285.5	282.3	275.8
70°	394.5	379.6	360.3	342.1	309.0	280.1	259.8	252.3	241.6	240.6	233.1
72.5°	325.0	306.9	293.0	279.1	254.5	228.8	218.1	207.4	202.1	197.8	194.6
75°	257.7	244.8	235.2	223.5	202.1	185.0	170.0	165.7	162.5	161.4	159.3
77.5°	192.5	183.9	179.6	167.9	152.9	137.9	131.5	125.1	125.1	123.0	124.0
80°	136.9	131.5	126.2	119.7	106.9	100.5	95.2	90.9	88.7	87.7	88.7
82.5°	86.6	83.4	82.3	78.0	69.5	66.3	62.0	58.8	58.8	58.8	58.8
85°	48.1	48.1	48.1	41.7	38.5	35.3	33.1	32.1	32.1	32.1	33.1
87.5°	20.3	20.3	17.1	17.1	16.0	13.9	12.8	12.8	13.9	13.9	15.0
90°	12.7	11.4	10.7	9.8	7.9	6.0	4.2	2.3	4.2	6.0	7.9
92.5°	11.9	10.6	9.9	10.1	10.4	10.8	11.1	11.5	11.1	10.8	10.4
95°	16.3	16.1	16.0	18.9	24.7	30.4	36.2	42.0	36.2	30.4	24.7
97.5°	70.3	88.1	97.0	95.1	91.4	87.7	83.9	80.2	83.9	87.7	91.4
100°	103.9	127.3	139.0	137.5	134.4	131.3	128.3	125.2	128.3	131.3	134.4
102.5°	187.8	185.8	184.8	183.8	181.7	179.7	177.6	175.6	177.6	179.7	181.7
105°	235.7	234.8	234.4	233.9	232.9	231.8	230.8	229.8	230.8	231.8	232.9
107.5°	283.5	282.3	281.7	281.5	281.0	280.5	280.0	279.5	280.0	280.5	281.0
110°	333.6	332.6	332.1	331.9	331.4	330.9	330.4	329.9	330.4	330.9	331.4

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	383.8	383.5	383.3	382.8	381.8	380.7	379.7	378.7	379.7	380.7	381.8
115°	431.1	431.3	431.4	431.1	430.6	430.1	429.6	429.1	429.6	430.1	430.6
117.5°	478.0	477.5	477.2	476.9	476.2	475.5	474.9	474.2	474.9	475.5	476.2
120°	522.8	522.9	523.0	522.7	522.0	521.3	520.7	520.0	520.7	521.3	522.0
122.5°	564.8	564.5	564.3	564.1	563.8	563.4	563.1	562.7	563.1	563.4	563.8
125°	605.8	606.1	606.3	606.0	605.3	604.6	603.9	603.2	603.9	604.6	605.3
127.5°	644.2	643.3	642.9	642.8	642.6	642.5	642.3	642.1	642.3	642.5	642.6
130°	681.1	680.6	680.3	680.2	680.1	679.9	679.8	679.6	679.8	679.9	680.1
132.5°	716.4	715.7	715.4	715.2	714.9	714.6	714.2	713.9	714.2	714.6	714.9
135°	748.5	747.8	747.5	747.6	747.8	747.9	748.1	748.3	748.1	747.9	747.8
137.5°	780.1	779.2	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8	778.8
140°	810.6	810.3	810.1	809.9	809.6	809.3	808.9	808.6	808.9	809.3	809.6
142.5°	838.6	838.5	838.4	838.1	837.4	836.7	836.0	835.3	836.0	836.7	837.4
145°	865.1	865.1	865.1	864.8	864.3	863.8	863.3	862.8	863.3	863.8	864.3
147.5°	888.5	888.7	888.8	888.3	887.3	886.2	885.2	884.2	885.2	886.2	887.3
150°	910.6	910.8	910.9	910.6	909.9	909.2	908.6	907.9	908.6	909.2	909.9
152.5°	929.5	929.8	930.0	929.7	929.2	928.7	928.2	927.7	928.2	928.7	929.2
155°	946.0	946.5	946.8	946.7	946.5	946.4	946.2	946.0	946.2	946.4	946.5
157.5°	961.1	961.8	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1
160°	973.3	973.4	973.5	973.8	974.3	974.8	975.3	975.8	975.3	974.8	974.3
162.5°	984.7	984.9	985.0	985.3	986.0	986.7	987.3	988.0	987.3	986.7	986.0
165°	994.1	994.1	994.1	994.5	995.4	996.3	997.1	998.0	997.1	996.3	995.4
167.5°	1002.3	1002.4	1002.5	1002.9	1003.8	1004.6	1005.5	1006.3	1005.5	1004.6	1003.8
170°	1008.9	1008.7	1008.6	1009.1	1010.1	1011.2	1012.2	1013.2	1012.2	1011.2	1010.1
172.5°	1013.5	1013.3	1013.2	1013.7	1014.7	1015.8	1016.8	1017.8	1016.8	1015.8	1014.7
175°	1016.5	1016.4	1016.3	1016.8	1017.8	1018.9	1019.9	1020.9	1019.9	1018.9	1017.8
177.5°	1018.3	1018.0	1017.8	1018.4	1019.6	1020.7	1021.9	1023.1	1021.9	1020.7	1019.6
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1271.2	1267.0	1269.1	1258.4	1248.8	1234.9	1223.1	1221.0	1218.9	1225.3	1221.0
5°	1234.9	1229.5	1224.2	1211.4	1192.1	1180.4	1163.3	1162.2	1155.8	1146.1	1148.3
7.5°	1195.3	1192.1	1184.6	1164.3	1147.2	1126.9	1113.0	1101.2	1095.9	1087.3	1084.1
10°	1163.3	1151.5	1145.1	1122.6	1102.3	1080.9	1062.8	1054.2	1044.6	1037.1	1031.7
12.5°	1119.4	1116.2	1098.0	1079.9	1062.8	1038.2	1024.3	999.7	986.8	993.3	991.1
15°	1090.6	1075.6	1071.3	1045.6	1016.8	1000.7	975.1	959.0	953.7	944.1	932.3
17.5°	1052.1	1042.4	1027.5	1003.9	970.8	948.4	930.2	915.2	908.8	896.0	886.3
20°	1015.7	999.7	987.9	966.5	934.5	905.6	883.1	873.5	857.5	846.8	841.4
22.5°	982.6	970.8	953.7	921.6	893.8	866.0	839.3	825.4	810.4	804.0	795.5
25°	941.9	922.7	910.9	875.6	845.7	823.3	798.7	780.5	771.9	761.2	759.1
27.5°	902.4	884.2	870.3	839.3	802.9	774.1	759.1	746.3	731.3	731.3	726.0
30°	862.8	850.0	828.6	798.7	764.5	736.7	719.5	707.8	702.4	698.2	697.1
32.5°	823.3	806.2	793.3	752.7	727.0	701.4	688.5	678.9	672.5	671.4	672.5
35°	782.6	763.4	750.6	714.2	688.5	665.0	659.7	651.1	647.9	646.8	652.2
37.5°	739.9	724.9	708.9	678.9	650.1	636.2	625.5	622.3	621.2	627.6	629.7
40°	700.3	687.5	672.5	640.4	619.0	604.1	598.7	595.5	599.8	606.2	609.4
42.5°	662.9	644.7	632.9	604.1	584.8	576.3	569.9	569.9	574.1	581.6	587.0
45°	623.3	609.4	597.7	572.0	554.9	545.3	544.2	545.3	550.6	556.0	562.4
47.5°	584.8	570.9	558.1	536.7	521.8	516.4	515.3	516.4	525.0	532.4	539.9
50°	549.6	534.6	522.8	502.5	490.7	484.3	485.4	490.7	497.2	507.9	517.5
52.5°	507.9	497.2	486.5	468.3	457.6	453.3	456.5	460.8	472.6	480.1	491.8
55°	467.2	457.6	449.1	435.2	426.6	423.4	425.5	431.9	441.6	454.4	468.3
57.5°	429.8	419.1	410.6	400.9	391.3	392.4	393.5	402.0	413.8	425.5	441.6
60°	388.1	381.7	374.2	362.4	358.2	358.2	361.4	371.0	381.7	400.9	414.8
62.5°	350.7	342.1	336.8	329.3	322.9	324.0	331.4	340.0	352.8	368.9	387.0
65°	312.2	302.6	298.3	291.9	289.7	290.8	296.2	309.0	322.9	336.8	353.9
67.5°	269.4	266.2	261.9	255.5	257.7	258.7	264.1	274.8	289.7	303.6	322.9
70°	233.1	226.7	225.6	220.2	220.2	223.5	234.1	241.6	255.5	270.5	290.8
72.5°	194.6	189.2	189.2	185.0	188.2	191.4	196.7	207.4	220.2	235.2	252.3
75°	155.0	152.9	155.0	152.9	152.9	158.2	164.7	173.2	187.1	203.1	217.0
77.5°	119.7	119.7	118.7	121.9	121.9	125.1	133.6	142.2	152.9	165.7	180.7
80°	87.7	87.7	87.7	90.9	94.1	94.1	99.4	110.1	119.7	128.3	142.2
82.5°	59.9	59.9	59.9	62.0	66.3	66.3	72.7	79.1	89.8	97.3	103.7
85°	36.4	36.4	35.3	37.4	38.5	41.7	47.0	51.3	56.7	63.1	69.5
87.5°	16.0	16.0	17.1	18.2	19.2	21.4	23.5	25.7	31.0	33.1	36.4
90°	9.8	10.7	11.4	12.7	14.1	15.4	16.8	17.8	18.8	19.9	20.9
92.5°	10.1	9.9	10.6	11.9	13.3	14.6	16.0	17.0	18.0	19.1	20.1
95°	18.9	16.0	16.1	16.3	16.4	16.6	16.8	17.8	18.8	19.9	20.9
97.5°	95.1	97.0	88.1	70.3	52.4	34.6	16.8	17.6	18.5	19.3	20.2
100°	137.5	139.0	127.3	103.9	80.4	57.0	33.6	30.7	27.8	24.9	22.0
102.5°	183.8	184.8	185.8	187.8	189.9	191.9	193.9	155.7	117.5	79.4	41.2
105°	233.9	234.4	234.8	235.7	236.5	237.4	238.2	239.7	241.3	242.8	244.3
107.5°	281.5	281.7	282.3	283.5	284.7	285.9	287.1	287.9	288.8	289.6	290.5
110°	331.9	332.1	332.6	333.6	334.7	335.7	336.7	337.0	337.4	337.7	338.0

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	382.8	383.3	383.5	383.8	384.1	384.5	384.8	384.6	384.5	384.3	384.2
115°	431.1	431.4	431.3	431.1	431.0	430.8	430.6	431.0	431.3	431.7	432.0
117.5°	476.9	477.2	477.5	478.0	478.5	479.0	479.5	479.3	479.1	479.0	478.8
120°	522.7	523.0	522.9	522.8	522.6	522.5	522.3	522.6	523.0	523.3	523.6
122.5°	564.1	564.3	564.5	564.8	565.1	565.5	565.8	566.0	566.1	566.3	566.4
125°	606.0	606.3	606.1	605.8	605.4	605.1	604.7	605.2	605.7	606.2	606.7
127.5°	642.8	642.9	643.3	644.2	645.0	645.9	646.7	646.5	646.4	646.2	646.1
130°	680.2	680.3	680.6	681.1	681.6	682.1	682.6	682.8	683.0	683.1	683.3
132.5°	715.2	715.4	715.7	716.4	717.1	717.8	718.5	718.7	718.9	719.0	719.2
135°	747.6	747.5	747.8	748.5	749.2	749.9	750.6	750.9	751.3	751.6	751.9
137.5°	778.8	778.8	779.2	780.1	780.9	781.8	782.6	783.0	783.3	783.7	784.0
140°	809.9	810.1	810.3	810.6	810.9	811.3	811.6	812.1	812.6	813.1	813.6
142.5°	838.1	838.4	838.5	838.6	838.8	838.9	839.1	839.5	839.8	840.2	840.5
145°	864.8	865.1	865.1	865.1	865.1	865.1	865.1	865.3	865.5	865.6	865.8
147.5°	888.3	888.8	888.7	888.5	888.4	888.2	888.0	888.2	888.4	888.5	888.7
150°	910.6	910.9	910.8	910.6	910.5	910.3	910.1	910.1	910.1	910.1	910.1
152.5°	929.7	930.0	929.8	929.5	929.2	928.8	928.5	928.8	929.2	929.5	929.8
155°	946.7	946.8	946.5	946.0	945.5	945.0	944.5	945.2	945.9	946.6	947.3
157.5°	962.1	962.1	961.8	961.1	960.4	959.7	959.0	959.8	960.7	961.5	962.4
160°	973.8	973.5	973.4	973.3	973.1	973.0	972.8	973.8	974.8	975.8	976.8
162.5°	985.3	985.0	984.9	984.7	984.6	984.4	984.2	985.2	986.2	987.3	988.3
165°	994.5	994.1	994.1	994.1	994.1	994.1	994.1	995.5	996.8	998.2	999.5
167.5°	1002.9	1002.5	1002.4	1002.3	1002.1	1002.0	1001.8	1003.3	1004.8	1006.3	1007.8
170°	1009.1	1008.6	1008.7	1008.9	1009.0	1009.2	1009.4	1010.8	1012.1	1013.5	1014.8
172.5°	1013.7	1013.2	1013.3	1013.5	1013.6	1013.8	1014.0	1015.4	1016.7	1018.1	1019.4
175°	1016.8	1016.3	1016.4	1016.5	1016.7	1016.8	1017.0	1018.5	1020.1	1021.6	1023.1
177.5°	1018.4	1017.8	1018.0	1018.3	1018.6	1019.0	1019.3	1020.7	1022.0	1023.4	1024.7
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1217.8	1216.7	1211.4	1213.5	1207.1	1209.2	1212.4	1213.5	1217.8	1214.6	1213.5
5°	1142.9	1140.8	1137.6	1134.4	1133.3	1137.6	1130.1	1132.2	1134.4	1137.6	1141.9
7.5°	1082.0	1080.9	1077.7	1072.4	1070.2	1068.1	1069.2	1076.7	1075.6	1074.5	1082.0
10°	1026.4	1027.5	1021.1	1020.0	1013.6	1012.5	1013.6	1015.7	1018.9	1023.2	1024.3
12.5°	968.7	982.6	970.8	966.5	956.9	962.3	964.4	954.8	960.1	963.3	979.4
15°	932.3	925.9	918.4	918.4	914.1	912.0	906.7	914.1	918.4	924.8	922.7
17.5°	882.1	871.4	867.1	862.8	863.9	868.2	856.4	873.5	873.5	876.7	871.4
20°	838.2	829.7	824.3	822.2	819.0	816.8	815.8	820.1	826.5	828.6	834.0
22.5°	792.3	792.3	783.7	780.5	778.4	775.1	780.5	777.3	781.6	785.8	794.4
25°	753.8	753.8	750.6	746.3	743.1	740.9	744.1	743.1	746.3	751.6	753.8
27.5°	722.8	719.5	718.5	717.4	716.3	717.4	716.3	719.5	722.8	723.8	721.7
30°	696.0	692.8	693.9	693.9	695.0	693.9	692.8	696.0	697.1	695.0	696.0
32.5°	671.4	671.4	673.6	674.6	674.6	675.7	676.8	674.6	675.7	672.5	673.6
35°	651.1	653.3	655.4	656.5	657.5	656.5	658.6	657.5	655.4	653.3	652.2
37.5°	630.8	632.9	637.2	638.3	641.5	642.6	640.4	640.4	639.4	635.1	632.9
40°	609.4	611.6	616.9	620.1	622.3	625.5	623.3	623.3	619.0	614.8	611.6
42.5°	589.1	593.4	598.7	601.9	606.2	606.2	606.2	604.1	598.7	594.5	591.2
45°	568.8	569.9	577.4	582.7	587.0	587.0	587.0	583.8	580.6	572.0	567.7
47.5°	546.3	549.6	558.1	563.5	567.7	568.8	568.8	565.6	559.2	551.7	546.3
50°	521.8	527.1	536.7	544.2	549.6	551.7	548.5	546.3	538.9	530.3	523.9
52.5°	498.2	504.6	516.4	522.8	530.3	531.4	530.3	527.1	518.5	506.8	501.4
55°	474.7	480.1	492.9	503.6	510.0	512.1	510.0	504.6	494.0	482.2	476.8
57.5°	449.1	456.5	470.4	481.1	488.6	489.7	487.5	482.2	473.6	458.7	451.2
60°	422.3	431.9	445.8	456.5	466.2	467.2	465.1	457.6	446.9	431.9	425.5
62.5°	395.6	403.1	419.1	430.9	438.4	443.7	439.4	431.9	421.3	406.3	396.7
65°	364.6	375.3	389.2	399.9	408.4	409.5	407.4	400.9	389.2	373.1	365.7
67.5°	334.6	342.1	356.0	369.9	373.1	376.3	373.1	366.7	357.1	343.2	332.5
70°	298.3	304.7	321.8	331.4	335.7	338.9	336.8	330.4	321.8	309.0	300.4
72.5°	261.9	267.3	283.3	290.8	299.4	298.3	297.2	293.0	281.2	272.6	267.3
75°	223.5	229.9	240.6	250.2	253.4	253.4	253.4	250.2	242.7	228.8	223.5
77.5°	188.2	191.4	199.9	205.3	208.5	209.6	208.5	203.1	198.9	189.2	186.0
80°	144.3	152.9	159.3	160.4	164.7	164.7	164.7	162.5	158.2	148.6	147.5
82.5°	109.1	111.2	117.6	120.8	123.0	121.9	121.9	117.6	116.5	111.2	109.1
85°	73.8	77.0	75.9	80.2	81.3	79.1	79.1	81.3	75.9	77.0	73.8
87.5°	40.6	40.6	42.8	41.7	46.0	46.0	43.8	44.9	42.8	41.7	40.6
90°	21.4	21.6	21.9	22.2	22.6	22.9	22.6	22.2	21.9	21.6	21.4
92.5°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
95°	21.4	21.5	21.6	21.8	21.9	22.1	21.9	21.8	21.6	21.5	21.4
97.5°	20.6	20.7	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.6
100°	20.6	20.7	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.6
102.5°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
105°	245.1	242.0	235.9	229.8	223.7	217.6	223.7	229.8	235.9	242.0	245.1
107.5°	290.9	291.2	291.9	292.6	293.3	294.0	293.3	292.6	291.9	291.2	290.9
110°	338.2	338.5	339.0	339.5	340.0	340.5	340.0	339.5	339.0	338.5	338.2



TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	384.1	384.4	385.1	385.8	386.4	387.1	386.4	385.8	385.1	384.4	384.1
115°	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
117.5°	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7
120°	523.8	523.6	523.3	523.0	522.6	522.3	522.6	523.0	523.3	523.6	523.8
122.5°	566.5	566.3	566.0	565.7	565.3	565.0	565.3	565.7	566.0	566.3	566.5
125°	607.0	607.1	607.3	607.4	607.6	607.8	607.6	607.4	607.3	607.1	607.0
127.5°	646.0	645.9	645.7	645.6	645.4	645.2	645.4	645.6	645.7	645.9	646.0
130°	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4
132.5°	719.3	719.2	719.0	718.9	718.7	718.5	718.7	718.9	719.0	719.2	719.3
135°	752.1	752.3	752.6	752.9	753.3	753.6	753.3	752.9	752.6	752.3	752.1
137.5°	784.2	784.1	783.9	783.8	783.6	783.4	783.6	783.8	783.9	784.1	784.2
140°	813.9	814.0	814.2	814.3	814.5	814.7	814.5	814.3	814.2	814.0	813.9
142.5°	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7	840.7
145°	865.9	866.1	866.4	866.7	867.1	867.4	867.1	866.7	866.4	866.1	865.9
147.5°	888.8	888.9	889.0	889.2	889.3	889.5	889.3	889.2	889.0	888.9	888.8
150°	910.1	910.2	910.4	910.5	910.7	910.9	910.7	910.5	910.4	910.2	910.1
152.5°	930.0	929.9	929.7	929.6	929.4	929.2	929.4	929.6	929.7	929.9	930.0
155°	947.6	947.3	946.8	946.3	945.8	945.3	945.8	946.3	946.8	947.3	947.6
157.5°	962.8	962.4	961.5	960.7	959.8	959.0	959.8	960.7	961.5	962.4	962.8
160°	977.3	976.8	975.8	974.8	973.8	972.8	973.8	974.8	975.8	976.8	977.3
162.5°	988.8	988.2	987.0	985.8	984.6	983.4	984.6	985.8	987.0	988.2	988.8
165°	1000.2	999.4	997.9	996.4	994.9	993.4	994.9	996.4	997.9	999.4	1000.2
167.5°	1008.6	1007.8	1006.1	1004.4	1002.7	1001.0	1002.7	1004.4	1006.1	1007.8	1008.6
170°	1015.5	1014.7	1013.0	1011.3	1009.6	1007.9	1009.6	1011.3	1013.0	1014.7	1015.5
172.5°	1020.1	1019.2	1017.3	1015.4	1013.6	1011.7	1013.6	1015.4	1017.3	1019.2	1020.1
175°	1023.9	1022.9	1020.8	1018.8	1016.7	1014.7	1016.7	1018.8	1020.8	1022.9	1023.9
177.5°	1025.4	1024.4	1022.4	1020.3	1018.3	1016.3	1018.3	1020.3	1022.4	1024.4	1025.4
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5	1290.5
2.5°	1213.5	1219.9	1213.5	1217.8	1219.9	1225.3	1227.4	1237.0	1240.2	1247.7	1247.7
5°	1140.8	1144.0	1145.1	1149.4	1153.6	1164.3	1171.8	1185.7	1201.7	1203.9	1213.5
7.5°	1082.0	1087.3	1095.9	1092.7	1100.2	1116.2	1125.8	1142.9	1159.0	1167.5	1179.3
10°	1029.6	1036.0	1039.2	1042.4	1056.3	1070.2	1085.2	1097.0	1118.3	1131.2	1140.8
12.5°	986.8	981.5	987.9	999.7	1015.7	1024.3	1044.6	1062.8	1078.8	1092.7	1101.2
15°	931.2	935.5	941.9	962.3	966.5	987.9	995.4	1015.7	1045.6	1058.5	1069.2
17.5°	877.8	891.7	904.5	912.0	924.8	941.9	963.3	985.8	1005.0	1020.0	1032.8
20°	835.0	848.9	856.4	861.7	874.6	898.1	918.4	946.2	970.8	982.6	999.7
22.5°	800.8	800.8	811.5	827.5	835.0	857.5	874.6	904.5	931.2	946.2	962.3
25°	758.0	764.5	773.0	786.9	797.6	815.8	840.4	866.0	894.9	907.7	928.0
27.5°	722.8	730.2	742.0	745.2	755.9	771.9	797.6	825.4	855.3	869.2	886.3
30°	696.0	700.3	704.6	711.0	720.6	734.5	755.9	780.5	816.8	827.5	848.9
32.5°	672.5	674.6	676.8	682.1	687.5	701.4	718.5	745.2	775.1	791.2	810.4
35°	651.1	649.0	650.1	653.3	658.6	664.0	682.1	704.6	732.4	751.6	766.6
37.5°	630.8	626.5	625.5	625.5	627.6	634.0	647.9	667.2	697.1	713.1	728.1
40°	608.4	604.1	601.9	600.9	599.8	604.1	614.8	634.0	657.5	672.5	689.6
42.5°	587.0	582.7	577.4	576.3	574.1	576.3	583.8	601.9	622.3	637.2	651.1
45°	565.6	558.1	551.7	547.4	548.5	545.3	550.6	564.5	588.0	597.7	611.6
47.5°	542.1	533.5	525.0	520.7	516.4	518.5	520.7	532.4	552.8	562.4	576.3
50°	519.6	507.9	498.2	492.9	489.7	487.5	489.7	501.4	516.4	525.0	536.7
52.5°	494.0	482.2	472.6	464.0	459.7	456.5	457.6	468.3	482.2	490.7	502.5
55°	470.4	455.5	442.6	431.9	428.7	427.7	426.6	434.1	445.8	454.4	464.0
57.5°	443.7	428.7	414.8	402.0	395.6	394.5	394.5	396.7	411.6	418.0	423.4
60°	417.0	400.9	386.0	374.2	364.6	361.4	360.3	364.6	372.1	378.5	386.0
62.5°	387.0	371.0	352.8	342.1	332.5	324.0	327.2	328.2	338.9	342.1	348.5
65°	358.2	340.0	325.0	307.9	297.2	291.9	289.7	291.9	300.4	301.5	305.8
67.5°	325.0	307.9	289.7	278.0	268.4	258.7	256.6	256.6	260.9	264.1	269.4
70°	293.0	275.8	255.5	242.7	233.1	224.5	221.3	220.2	223.5	225.6	230.9
72.5°	255.5	238.4	223.5	209.6	197.8	191.4	188.2	186.0	189.2	191.4	192.5
75°	216.0	202.1	187.1	173.2	165.7	159.3	155.0	151.8	154.0	154.0	154.0
77.5°	178.6	164.7	152.9	143.3	133.6	126.2	123.0	119.7	120.8	120.8	123.0
80°	139.0	129.4	119.7	111.2	102.6	96.2	94.1	90.9	88.7	87.7	87.7
82.5°	102.6	95.2	86.6	79.1	74.8	68.4	66.3	62.0	62.0	60.9	60.9
85°	68.4	64.2	55.6	50.3	47.0	43.8	41.7	39.6	36.4	36.4	35.3
87.5°	36.4	34.2	32.1	25.7	25.7	22.5	21.4	20.3	17.1	18.2	18.2
90°	20.9	19.9	18.8	17.8	16.8	15.4	14.1	12.7	11.4	10.7	9.8
92.5°	20.1	19.1	18.0	17.0	16.0	14.6	13.3	11.9	10.6	9.9	10.1
95°	20.9	19.9	18.8	17.8	16.8	16.6	16.4	16.3	16.1	16.0	18.9
97.5°	20.2	19.3	18.5	17.6	16.8	34.6	52.4	70.3	88.1	97.0	95.1
100°	22.0	24.9	27.8	30.7	33.6	57.0	80.4	103.9	127.3	139.0	137.5
102.5°	41.2	79.4	117.5	155.7	193.9	191.9	189.9	187.8	185.8	184.8	183.8
105°	244.3	242.8	241.3	239.7	238.2	237.4	236.5	235.7	234.8	234.4	233.9
107.5°	290.5	289.6	288.8	287.9	287.1	285.9	284.7	283.5	282.3	281.7	281.5
110°	338.0	337.7	337.4	337.0	336.7	335.7	334.7	333.6	332.6	332.1	331.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	384.2	384.3	384.5	384.6	384.8	384.5	384.1	383.8	383.5	383.3	382.8
115°	432.0	431.7	431.3	431.0	430.6	430.8	431.0	431.1	431.3	431.4	431.1
117.5°	478.8	479.0	479.1	479.3	479.5	479.0	478.5	478.0	477.5	477.2	476.9
120°	523.6	523.3	523.0	522.6	522.3	522.5	522.6	522.8	522.9	523.0	522.7
122.5°	566.4	566.3	566.1	566.0	565.8	565.5	565.1	564.8	564.5	564.3	564.1
125°	606.7	606.2	605.7	605.2	604.7	605.1	605.4	605.8	606.1	606.3	606.0
127.5°	646.1	646.2	646.4	646.5	646.7	645.9	645.0	644.2	643.3	642.9	642.8
130°	683.3	683.1	683.0	682.8	682.6	682.1	681.6	681.1	680.6	680.3	680.2
132.5°	719.2	719.0	718.9	718.7	718.5	717.8	717.1	716.4	715.7	715.4	715.2
135°	751.9	751.6	751.3	750.9	750.6	749.9	749.2	748.5	747.8	747.5	747.6
137.5°	784.0	783.7	783.3	783.0	782.6	781.8	780.9	780.1	779.2	778.8	778.8
140°	813.6	813.1	812.6	812.1	811.6	811.3	810.9	810.6	810.3	810.1	809.9
142.5°	840.5	840.2	839.8	839.5	839.1	838.9	838.8	838.6	838.5	838.4	838.1
145°	865.8	865.6	865.5	865.3	865.1	865.1	865.1	865.1	865.1	865.1	864.8
147.5°	888.7	888.5	888.4	888.2	888.0	888.2	888.4	888.5	888.7	888.8	888.3
150°	910.1	910.1	910.1	910.1	910.1	910.3	910.5	910.6	910.8	910.9	910.6
152.5°	929.8	929.5	929.2	928.8	928.5	928.8	929.2	929.5	929.8	930.0	929.7
155°	947.3	946.6	945.9	945.2	944.5	945.0	945.5	946.0	946.5	946.8	946.7
157.5°	962.4	961.5	960.7	959.8	959.0	959.7	960.4	961.1	961.8	962.1	962.1
160°	976.8	975.8	974.8	973.8	972.8	973.0	973.1	973.3	973.4	973.5	973.8
162.5°	988.3	987.3	986.2	985.2	984.2	984.4	984.6	984.7	984.9	985.0	985.3
165°	999.5	998.2	996.8	995.5	994.1	994.1	994.1	994.1	994.1	994.1	994.5
167.5°	1007.8	1006.3	1004.8	1003.3	1001.8	1002.0	1002.1	1002.3	1002.4	1002.5	1002.9
170°	1014.8	1013.5	1012.1	1010.8	1009.4	1009.2	1009.0	1008.9	1008.7	1008.6	1009.1
172.5°	1019.4	1018.1	1016.7	1015.4	1014.0	1013.8	1013.6	1013.5	1013.3	1013.2	1013.7
175°	1023.1	1021.6	1020.1	1018.5	1017.0	1016.8	1016.7	1016.5	1016.4	1016.3	1016.8
177.5°	1024.7	1023.4	1022.0	1020.7	1019.3	1019.0	1018.6	1018.3	1018.0	1017.8	1018.4
180°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1290.5	1290.5	1290.5	1290.5
2.5°	1255.2	1265.9	1275.5	1290.5
5°	1227.4	1242.4	1262.7	1285.1
7.5°	1195.3	1218.9	1245.6	1276.6
10°	1165.4	1192.1	1226.3	1263.8
12.5°	1134.4	1166.5	1203.9	1244.5
15°	1099.1	1131.2	1172.9	1227.4
17.5°	1067.0	1105.5	1150.4	1208.2
20°	1029.6	1066.0	1115.1	1181.4
22.5°	996.5	1038.2	1092.7	1150.4
25°	960.1	996.5	1051.0	1120.5
27.5°	923.8	968.7	1021.1	1088.4
30°	888.5	925.9	982.6	1053.1
32.5°	850.0	894.9	947.3	1013.6
35°	808.3	851.1	900.2	971.9
37.5°	770.9	812.6	862.8	925.9
40°	729.2	773.0	819.0	882.1
42.5°	688.5	728.1	774.1	831.8
45°	649.0	683.2	724.9	775.1
47.5°	608.4	637.2	675.7	720.6
50°	564.5	595.5	624.4	661.8
52.5°	523.9	550.6	574.1	605.1
55°	484.3	502.5	521.8	545.3
57.5°	442.6	456.5	470.4	495.0
60°	400.9	413.8	421.3	437.3
62.5°	360.3	365.7	375.3	384.9
65°	315.4	322.9	328.2	340.0
67.5°	274.8	278.0	283.3	290.8
70°	232.0	239.5	241.6	247.0
72.5°	195.7	198.9	201.0	202.1
75°	155.0	158.2	160.4	166.8
77.5°	121.9	120.8	125.1	126.2
80°	89.8	86.6	87.7	91.9
82.5°	58.8	59.9	58.8	58.8
85°	36.4	35.3	33.1	34.2
87.5°	16.0	16.0	15.0	15.0
90°	7.9	6.0	4.2	2.3
92.5°	10.4	10.8	11.1	11.5
95°	24.7	30.4	36.2	42.0
97.5°	91.4	87.7	83.9	80.2
100°	134.4	131.3	128.3	125.2
102.5°	181.7	179.7	177.6	175.6
105°	232.9	231.8	230.8	229.8
107.5°	281.0	280.5	280.0	279.5
110°	331.4	330.9	330.4	329.9

TEST NUMBER: P1001944

CATALOG NUMBER: SA4XXDIP-B795D810UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	381.8	380.7	379.7	378.7
115°	430.6	430.1	429.6	429.1
117.5°	476.2	475.5	474.9	474.2
120°	522.0	521.3	520.7	520.0
122.5°	563.8	563.4	563.1	562.7
125°	605.3	604.6	603.9	603.2
127.5°	642.6	642.5	642.3	642.1
130°	680.1	679.9	679.8	679.6
132.5°	714.9	714.6	714.2	713.9
135°	747.8	747.9	748.1	748.3
137.5°	778.8	778.8	778.8	778.8
140°	809.6	809.3	808.9	808.6
142.5°	837.4	836.7	836.0	835.3
145°	864.3	863.8	863.3	862.8
147.5°	887.3	886.2	885.2	884.2
150°	909.9	909.2	908.6	907.9
152.5°	929.2	928.7	928.2	927.7
155°	946.5	946.4	946.2	946.0
157.5°	962.1	962.1	962.1	962.1
160°	974.3	974.8	975.3	975.8
162.5°	986.0	986.7	987.3	988.0
165°	995.4	996.3	997.1	998.0
167.5°	1003.8	1004.6	1005.5	1006.3
170°	1010.1	1011.2	1012.2	1013.2
172.5°	1014.7	1015.8	1016.8	1017.8
175°	1017.8	1018.9	1019.9	1020.9
177.5°	1019.6	1020.7	1021.9	1023.1
180°	1020.9	1020.9	1020.9	1020.9

(END OF REPORT)