

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: P1001586

Luminaire Tested: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001586
REPORT IS A COMBINATION OF REPORTS P996208 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

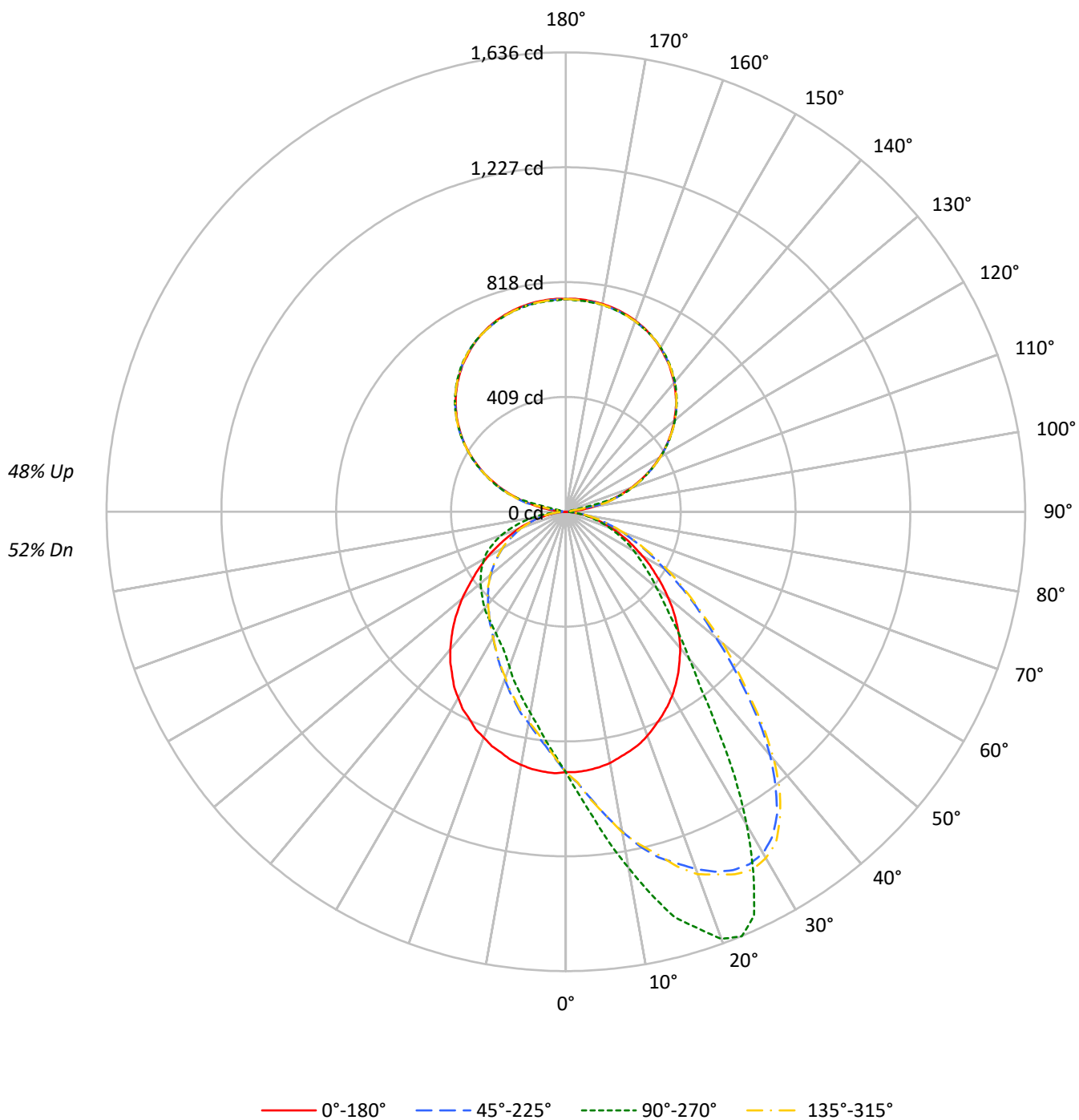
Lumens per Lamp: N/A
Luminaire Lumens: 4905.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	99	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	50
2	90	83	77	71	83	77	71	67	66	62	58	55	52	50	46	44	42
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	27
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	23	20	18
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7562	7562	7562	7562
5°	7543	8675	7587	6519
10°	7487	10122	7544	5719
15°	7396	11668	7448	5117
20°	7301	12653	7353	4588
25°	7161	12508	7230	4197
30°	7025	10338	7110	3996
35°	6833	7704	6908	3875
40°	6609	5803	6673	3815
45°	6267	4658	6344	3733
50°	5859	3924	5944	3695
55°	5378	3415	5463	3652
60°	4912	3008	5057	3592
65°	4474	2588	4516	3442
70°	3960	2130	4045	3169
75°	3455	1635	3432	2692
80°	2719	1074	2686	2043
85°	1790	482	1674	1193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 9779 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.8
10°-20°	278.6	5.7
20°-30°	442.6	9.0
30°-40°	491.8	10.0
40°-50°	447.2	9.1
50°-60°	365.5	7.5
60°-70°	260.9	5.3
70°-80°	143.5	2.9
80°-90°	40.4	0.8
90°-100°	25.2	0.5
100°-110°	165.6	3.4
110°-120°	316.3	6.4
120°-130°	401.5	8.2
130°-140°	429.5	8.8
140°-150°	401.6	8.2
150°-160°	323.9	6.6
160°-170°	208.9	4.3
170°-180°	72.0	1.5
0°-30°	811.4	16.5
0°-40°	1303.2	26.6
0°-60°	2115.8	43.1
0°-90°	2560.6	52.2
90°-120°	507.0	10.3
90°-150°	1739.7	35.5
90°-180°	2344.0	47.8
0°-180°	4905.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	927	927	927	927	927	
5°	924	1088	929	818	924	88
15°	882	1494	888	655	882	249
25°	805	1587	813	532	805	371
35°	698	938	706	472	698	436
45°	557	526	564	422	557	430
55°	392	344	398	368	392	352
65°	244	221	247	294	244	241
75°	120	111	119	182	120	126
85°	25	23	23	57	25	29
90°	2	17	2	17	2	3
95°	31	16	31	16	31	38
105°	171	162	171	162	171	179
115°	318	321	318	321	318	313
125°	448	451	448	451	448	400
135°	555	559	555	559	555	428
145°	640	644	640	644	640	400
155°	702	702	702	702	702	324
165°	741	737	741	737	741	209
175°	758	753	758	753	758	72
180°	758	758	758	758	758	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	927.4	936.6	940.4	943.5	953.5	956.6	957.3	961.9	965.8	966.6	966.6
5°	923.5	938.1	949.6	960.4	976.5	983.5	991.9	1001.1	1013.4	1021.1	1024.9
7.5°	917.4	938.9	956.6	975.0	997.3	1011.1	1018.8	1043.4	1060.3	1074.1	1091.0
10°	908.2	935.8	961.2	988.1	1019.6	1036.5	1053.4	1083.3	1107.2	1134.0	1155.6
12.5°	894.3	930.4	961.2	998.8	1038.0	1058.0	1078.0	1130.2	1157.9	1181.7	1220.1
15°	882.0	918.1	961.9	1000.4	1048.8	1078.7	1107.9	1141.7	1185.5	1237.0	1273.9
17.5°	868.2	913.5	954.3	1008.0	1061.8	1090.3	1114.1	1166.3	1227.8	1278.5	1312.3
20°	849.0	895.1	948.9	1005.7	1069.5	1091.8	1123.3	1193.2	1248.5	1298.5	1353.8
22.5°	826.7	880.5	937.4	991.9	1058.0	1104.8	1139.4	1200.9	1267.7	1325.4	1387.6
25°	805.2	863.6	913.5	988.1	1058.0	1089.5	1128.7	1201.7	1274.6	1344.6	1408.3
27.5°	782.2	836.7	904.3	963.5	1042.6	1077.2	1119.4	1199.4	1277.0	1346.9	1415.3
30°	756.8	815.2	871.3	941.2	1018.0	1062.6	1101.8	1188.6	1267.7	1340.7	1404.5
32.5°	728.4	783.7	843.6	909.7	990.4	1035.7	1084.9	1174.0	1258.5	1321.5	1370.7
35°	698.4	754.5	806.7	874.4	957.3	1002.7	1050.3	1148.6	1232.4	1283.9	1312.3
37.5°	665.4	718.4	769.9	836.7	919.7	968.1	1016.5	1111.8	1190.9	1233.9	1226.2
40°	633.9	681.5	729.1	792.1	879.0	930.4	972.7	1068.7	1137.9	1156.3	1131.0
42.5°	597.8	638.5	684.6	749.1	833.6	882.0	935.0	1022.6	1074.1	1066.4	1023.4
45°	557.0	593.1	639.2	699.9	786.0	835.9	880.5	963.5	1001.1	981.9	903.5
47.5°	517.8	553.2	590.8	651.5	735.3	777.5	822.9	897.4	918.9	878.2	799.8
50°	475.6	504.8	544.0	601.6	680.0	724.5	762.2	822.1	829.8	779.8	698.4
52.5°	434.9	459.5	497.1	554.0	627.0	662.3	699.2	752.2	746.0	694.6	616.2
55°	391.8	414.9	449.5	501.7	566.3	600.1	631.6	678.4	665.4	612.4	544.0
57.5°	355.7	371.9	405.7	454.1	507.1	544.0	570.9	607.7	587.8	534.8	471.0
60°	314.2	334.2	362.6	401.8	454.1	478.7	502.5	527.1	513.2	462.5	405.7
62.5°	276.6	292.0	316.5	354.2	394.9	417.2	442.6	457.9	444.1	397.2	349.6
65°	244.3	256.6	275.8	306.6	345.7	364.2	378.8	393.4	381.9	338.1	303.5
67.5°	209.0	219.7	235.9	260.5	293.5	306.6	320.4	330.4	317.3	288.1	254.3
70°	177.5	185.2	200.5	219.0	242.0	254.3	265.8	275.8	264.3	239.7	214.4
72.5°	145.2	151.4	165.2	178.3	199.0	207.4	215.9	223.6	219.7	196.7	175.9
75°	119.9	122.2	131.4	142.1	155.2	164.4	170.6	175.2	172.1	153.7	140.6
77.5°	90.7	93.7	100.7	109.1	120.6	126.0	129.8	134.5	130.6	116.0	106.8
80°	66.1	66.8	70.7	78.4	86.1	86.8	90.7	96.8	94.5	84.5	77.6
82.5°	42.3	44.6	46.1	50.7	56.1	57.6	59.9	61.5	60.7	54.6	52.2
85°	24.6	24.6	26.1	29.2	30.7	33.0	33.8	34.6	36.1	32.3	30.0
87.5°	10.8	11.5	11.5	12.3	13.8	13.8	14.6	15.4	16.1	15.4	13.1
90°	1.7	3.1	4.5	5.8	7.2	7.9	8.4	9.4	10.5	11.5	12.5
92.5°	8.5	8.3	8.0	7.8	7.5	7.4	7.9	8.9	9.9	10.9	11.9
95°	31.2	26.9	22.6	18.3	14.0	11.9	12.0	12.1	12.2	12.4	12.5
97.5°	59.5	62.3	65.1	67.8	70.6	72.0	65.4	52.2	38.9	25.7	12.5
100°	92.9	95.2	97.4	99.7	102.0	103.1	94.4	77.0	59.7	42.3	24.9
102.5°	130.3	131.8	133.3	134.8	136.3	137.1	137.9	139.4	140.9	142.4	143.9
105°	170.6	171.4	172.1	172.9	173.6	174.0	174.3	174.9	175.6	176.2	176.8
107.5°	207.4	207.8	208.2	208.5	208.9	209.1	209.5	210.4	211.3	212.2	213.1
110°	244.8	245.2	245.6	245.9	246.3	246.5	246.9	247.6	248.4	249.1	249.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.1	281.9	282.6	283.4	284.1	284.5	284.6	284.9	285.1	285.4	285.6
115°	318.5	318.9	319.3	319.6	320.0	320.2	320.1	320.0	319.9	319.7	319.6
117.5°	351.9	352.4	352.9	353.4	353.9	354.2	354.4	354.8	355.1	355.5	355.9
120°	385.9	386.4	386.9	387.4	387.9	388.2	388.1	388.0	387.9	387.7	387.6
122.5°	417.6	417.9	418.1	418.4	418.7	418.8	418.9	419.2	419.4	419.7	419.9
125°	447.7	448.2	448.7	449.2	449.7	449.9	449.8	449.5	449.3	449.0	448.8
127.5°	476.6	476.7	476.8	476.9	477.0	477.1	477.4	478.1	478.7	479.4	480.0
130°	504.3	504.4	504.6	504.7	504.8	504.9	505.1	505.5	505.8	506.2	506.6
132.5°	529.8	530.1	530.3	530.6	530.9	531.0	531.2	531.7	532.2	532.7	533.2
135°	555.3	555.2	555.1	555.0	554.9	554.8	555.0	555.5	556.0	556.5	557.0
137.5°	578.0	578.0	578.0	578.0	578.0	578.0	578.3	578.9	579.6	580.2	580.8
140°	600.1	600.3	600.6	600.8	601.1	601.2	601.3	601.6	601.9	602.1	602.4
142.5°	619.9	620.4	620.9	621.4	621.9	622.2	622.3	622.4	622.5	622.7	622.8
145°	640.3	640.7	641.1	641.4	641.8	642.0	642.0	642.0	642.0	642.0	642.0
147.5°	656.2	657.0	657.7	658.5	659.2	659.6	659.5	659.4	659.3	659.1	659.0
150°	673.8	674.3	674.8	675.3	675.8	676.0	675.9	675.8	675.7	675.6	675.5
152.5°	688.5	688.9	689.3	689.6	690.0	690.2	690.1	689.8	689.6	689.3	689.1
155°	702.1	702.2	702.4	702.5	702.6	702.7	702.5	702.1	701.8	701.4	701.0
157.5°	714.0	714.0	714.0	714.0	714.0	714.0	713.7	713.2	712.7	712.2	711.7
160°	724.2	723.8	723.4	723.1	722.7	722.5	722.4	722.3	722.2	722.0	721.9
162.5°	733.3	732.8	732.3	731.8	731.3	731.0	730.9	730.8	730.7	730.5	730.4
165°	740.6	740.0	739.4	738.7	738.1	737.8	737.8	737.8	737.8	737.8	737.8
167.5°	746.9	746.3	745.6	745.0	744.3	744.0	743.9	743.8	743.7	743.6	743.5
170°	752.0	751.2	750.5	749.7	749.0	748.6	748.7	748.8	748.9	749.0	749.1
172.5°	755.4	754.6	753.9	753.1	752.4	752.0	752.1	752.2	752.3	752.4	752.5
175°	757.6	756.8	756.1	755.3	754.6	754.2	754.3	754.4	754.5	754.7	754.8
177.5°	759.3	758.4	757.6	756.7	755.8	755.4	755.5	755.8	756.0	756.3	756.5
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	968.9	982.7	988.8	990.4	998.8	993.4	995.7	995.0	1001.1	1001.9	1001.9
5°	1039.5	1055.7	1061.1	1068.7	1080.3	1083.3	1081.0	1085.6	1094.1	1087.9	1097.2
7.5°	1114.1	1131.7	1144.0	1160.9	1164.8	1174.8	1180.9	1186.3	1187.8	1188.6	1190.1
10°	1183.2	1205.5	1222.4	1250.8	1257.0	1262.4	1289.2	1278.5	1292.3	1287.7	1289.2
12.5°	1239.3	1283.1	1296.9	1344.6	1349.2	1367.6	1366.1	1383.0	1386.1	1392.2	1386.1
15°	1313.1	1363.8	1386.1	1412.9	1428.3	1449.8	1453.7	1476.7	1485.9	1494.4	1485.9
17.5°	1380.7	1407.6	1464.4	1485.9	1495.9	1507.5	1536.6	1545.1	1558.9	1553.5	1568.9
20°	1414.5	1452.9	1512.8	1549.7	1565.1	1575.8	1600.4	1613.5	1618.9	1618.9	1620.4
22.5°	1444.4	1499.8	1544.3	1586.6	1600.4	1608.1	1622.7	1632.7	1635.0	1636.5	1638.1
25°	1471.3	1521.3	1557.4	1581.2	1586.6	1586.6	1595.0	1588.9	1578.9	1586.6	1591.2
27.5°	1471.3	1506.7	1522.8	1531.3	1531.3	1510.5	1498.2	1472.9	1451.4	1445.2	1459.0
30°	1446.8	1462.9	1440.6	1419.9	1403.7	1389.9	1341.5	1303.1	1295.4	1290.0	1310.8
32.5°	1389.9	1369.2	1325.4	1265.4	1241.6	1210.1	1172.5	1143.3	1125.6	1119.4	1114.8
35°	1289.2	1235.5	1178.6	1097.9	1081.0	1041.1	989.6	968.1	938.9	938.1	948.1
37.5°	1179.4	1096.4	1034.9	958.1	934.3	892.0	843.6	821.3	801.4	786.0	804.4
40°	1051.1	978.8	885.1	822.1	788.3	766.0	725.3	700.7	691.5	683.8	695.3
42.5°	931.2	852.1	779.1	714.5	686.9	661.5	634.6	610.8	603.9	603.1	611.6
45°	812.1	734.5	666.9	611.6	593.9	578.5	552.4	545.5	534.0	526.3	530.1
47.5°	716.8	636.9	580.9	538.6	523.2	510.2	493.3	481.7	471.8	468.7	473.3
50°	623.1	569.3	511.7	476.4	464.8	452.5	439.5	428.7	424.1	421.0	424.1
52.5°	547.8	490.2	451.0	422.6	411.1	401.8	392.6	388.0	381.9	383.4	386.5
55°	480.2	429.5	396.5	375.7	368.8	365.0	353.4	348.1	345.7	344.2	345.7
57.5°	416.4	379.6	355.0	337.3	328.1	325.8	316.5	316.5	314.2	311.9	312.7
60°	365.7	334.2	310.4	296.6	295.0	291.2	285.0	284.3	278.9	281.2	282.0
62.5°	314.2	288.9	272.8	264.3	258.9	257.4	253.5	252.8	250.5	251.2	249.7
65°	273.5	252.8	236.6	229.7	227.4	226.7	223.6	221.3	219.7	221.3	219.7
67.5°	232.8	219.0	206.7	199.8	196.7	195.9	193.6	192.1	192.8	190.5	192.1
70°	194.4	180.6	172.9	169.0	167.5	165.2	165.2	165.2	165.2	163.7	162.9
72.5°	163.7	149.8	144.4	142.1	140.6	139.8	137.5	138.3	137.5	136.8	139.8
75°	129.8	121.4	116.0	113.7	115.2	112.9	110.6	112.2	109.9	110.6	113.7
77.5°	98.3	94.5	91.4	89.9	88.4	86.8	86.8	85.3	85.3	85.3	85.3
80°	71.5	70.7	65.3	64.5	64.5	63.0	63.0	63.0	63.0	62.2	63.0
82.5°	47.6	46.9	45.3	44.6	43.0	43.8	43.8	42.3	42.3	41.5	42.3
85°	27.7	27.7	26.1	25.4	24.6	25.4	23.8	23.0	23.8	23.0	23.8
87.5°	13.1	11.5	12.3	11.5	10.0	10.8	9.2	10.0	9.2	8.5	10.0
90°	13.3	14.0	14.8	15.5	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	12.7	13.4	14.2	14.9	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	13.3	14.0	14.8	15.5	15.9	16.0	16.1	16.2	16.3	16.4	16.3
97.5°	13.1	13.7	14.4	15.0	15.3	15.4	15.5	15.6	15.8	15.9	15.8
100°	22.8	20.6	18.5	16.4	15.3	15.4	15.5	15.6	15.8	15.9	15.8
102.5°	115.6	87.2	58.9	30.6	16.4	16.4	16.4	16.4	16.4	16.4	16.4
105°	177.9	179.1	180.2	181.3	181.9	179.6	175.1	170.6	166.0	161.5	166.0
107.5°	213.7	214.3	215.0	215.6	215.9	216.2	216.7	217.2	217.7	218.2	217.7
110°	250.1	250.4	250.6	250.9	251.0	251.2	251.6	251.9	252.3	252.7	252.3

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	285.5	285.3	285.2	285.1	285.0	285.3	285.8	286.3	286.8	287.3	286.8
115°	319.8	320.1	320.3	320.6	320.7	320.7	320.7	320.7	320.7	320.7	320.7
117.5°	355.8	355.6	355.5	355.4	355.3	355.3	355.3	355.3	355.3	355.3	355.3
120°	387.8	388.1	388.3	388.6	388.7	388.6	388.3	388.1	387.8	387.6	387.8
122.5°	420.0	420.2	420.3	420.4	420.5	420.4	420.1	419.8	419.6	419.3	419.6
125°	449.2	449.6	449.9	450.3	450.5	450.6	450.7	450.8	451.0	451.1	451.0
127.5°	479.9	479.7	479.6	479.5	479.4	479.3	479.2	479.1	478.9	478.8	478.9
130°	506.7	506.9	507.0	507.1	507.2	507.2	507.2	507.2	507.2	507.2	507.2
132.5°	533.3	533.5	533.6	533.7	533.8	533.7	533.6	533.5	533.3	533.2	533.3
135°	557.3	557.5	557.8	558.1	558.2	558.3	558.6	558.8	559.1	559.3	559.1
137.5°	581.1	581.3	581.6	581.9	582.0	581.9	581.8	581.7	581.5	581.4	581.5
140°	602.8	603.2	603.5	603.9	604.1	604.2	604.3	604.4	604.5	604.6	604.5
142.5°	623.0	623.3	623.5	623.8	623.9	623.9	623.9	623.9	623.9	623.9	623.9
145°	642.1	642.3	642.4	642.5	642.6	642.7	643.0	643.2	643.5	643.7	643.5
147.5°	659.1	659.3	659.4	659.5	659.6	659.7	659.8	659.9	660.1	660.2	660.1
150°	675.5	675.5	675.5	675.5	675.5	675.6	675.7	675.8	675.9	676.0	675.9
152.5°	689.3	689.6	689.8	690.1	690.2	690.1	690.0	689.9	689.7	689.6	689.7
155°	701.5	702.0	702.5	703.0	703.2	703.0	702.6	702.3	701.9	701.5	701.9
157.5°	712.3	713.0	713.6	714.3	714.6	714.3	713.6	713.0	712.3	711.7	712.3
160°	722.7	723.4	724.2	724.9	725.3	724.9	724.2	723.4	722.7	721.9	722.7
162.5°	731.2	731.9	732.7	733.4	733.8	733.4	732.5	731.6	730.8	729.9	730.8
165°	738.8	739.8	740.8	741.8	742.3	741.7	740.6	739.5	738.3	737.2	738.3
167.5°	744.6	745.8	746.9	748.0	748.6	748.0	746.7	745.4	744.2	742.9	744.2
170°	750.1	751.1	752.2	753.2	753.7	753.1	751.8	750.5	749.3	748.0	749.3
172.5°	753.5	754.5	755.6	756.6	757.1	756.4	755.0	753.6	752.2	750.8	752.2
175°	755.9	757.1	758.2	759.3	759.9	759.1	757.6	756.1	754.6	753.1	754.6
177.5°	757.5	758.5	759.5	760.5	761.0	760.2	758.7	757.2	755.7	754.2	755.7
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	1000.4	998.1	995.0	995.0	991.1	991.1	985.0	974.2	965.0	961.9	963.5
5°	1085.6	1086.4	1081.8	1078.0	1071.0	1065.7	1055.7	1036.5	1030.3	1018.0	1009.6
7.5°	1183.2	1180.1	1171.7	1165.5	1164.0	1151.7	1130.2	1107.2	1088.7	1076.4	1058.7
10°	1293.1	1280.8	1268.5	1264.7	1255.4	1234.7	1210.1	1184.8	1159.4	1132.5	1102.5
12.5°	1385.3	1361.5	1360.7	1351.5	1333.8	1322.3	1293.1	1257.0	1213.2	1183.2	1149.4
15°	1484.4	1462.1	1443.7	1426.8	1418.3	1384.5	1359.9	1314.6	1262.4	1230.1	1207.0
17.5°	1555.1	1545.1	1513.6	1505.9	1494.4	1455.2	1416.0	1371.5	1326.1	1280.8	1218.6
20°	1611.9	1605.8	1585.1	1574.3	1555.9	1525.1	1477.5	1426.0	1373.8	1309.2	1250.8
22.5°	1636.5	1628.8	1611.9	1602.7	1591.2	1565.1	1524.4	1466.0	1397.6	1340.0	1277.7
25°	1588.1	1602.0	1597.3	1593.5	1588.9	1573.5	1542.8	1491.3	1424.5	1359.2	1281.6
27.5°	1479.0	1502.8	1525.9	1529.0	1536.6	1542.8	1530.5	1493.6	1437.5	1368.4	1283.1
30°	1332.3	1343.0	1389.9	1403.7	1414.5	1453.7	1476.7	1467.5	1424.5	1362.2	1283.9
32.5°	1144.0	1172.5	1220.1	1253.1	1282.3	1326.1	1386.1	1409.9	1394.5	1343.8	1266.2
35°	965.8	999.6	1054.9	1097.2	1126.4	1188.6	1259.3	1310.8	1330.0	1304.6	1235.5
37.5°	819.8	860.5	909.7	925.8	959.6	1036.5	1134.0	1205.5	1252.4	1254.7	1200.9
40°	709.9	730.7	769.9	794.4	827.5	892.0	987.3	1081.8	1152.5	1176.3	1147.9
42.5°	617.0	633.1	662.3	692.3	722.2	771.4	859.0	947.3	1042.6	1090.3	1089.5
45°	543.2	560.1	580.1	604.7	625.4	678.4	747.6	838.2	920.5	994.2	1012.7
47.5°	478.7	493.3	517.8	528.6	542.4	592.4	652.3	736.8	822.1	906.6	928.1
50°	431.0	443.3	460.2	467.1	482.5	519.4	568.6	636.9	731.4	809.0	849.0
52.5°	388.0	397.2	410.3	415.7	426.4	454.1	498.6	552.4	630.8	710.7	766.8
55°	351.1	357.3	366.5	372.6	380.3	404.9	437.9	486.3	554.0	623.1	677.7
57.5°	316.5	321.2	330.4	333.5	339.6	358.8	381.9	422.6	484.8	546.3	599.3
60°	284.3	287.4	292.7	299.6	304.3	317.3	338.8	372.6	422.6	478.7	521.7
62.5°	253.5	258.2	259.7	262.8	266.6	278.9	295.8	320.4	364.2	410.3	455.6
65°	222.0	225.9	229.0	229.7	233.6	242.8	258.2	279.7	308.1	348.1	390.3
67.5°	192.8	195.2	196.7	199.8	203.6	208.2	220.5	236.6	262.8	295.0	328.8
70°	166.0	166.0	168.3	169.0	173.6	179.0	184.4	199.8	222.8	248.9	272.0
72.5°	136.8	140.6	139.8	143.7	142.9	146.7	153.7	163.7	180.6	201.3	223.6
75°	111.4	113.7	113.7	113.7	115.2	118.3	122.2	131.4	144.4	161.3	174.4
77.5°	86.8	88.4	88.4	88.4	89.1	92.2	96.0	102.2	111.4	121.4	129.1
80°	62.2	63.8	63.8	65.3	65.3	66.1	69.9	73.0	77.6	85.3	93.0
82.5°	42.3	43.0	44.6	44.6	43.8	45.3	46.1	49.2	53.8	55.3	60.7
85°	23.0	23.8	24.6	24.6	25.4	26.9	26.1	29.2	29.2	32.3	33.8
87.5°	9.2	10.8	10.8	10.0	10.8	10.8	10.8	12.3	13.1	13.8	13.1
90°	16.5	16.3	16.0	15.9	15.5	14.8	14.0	13.3	12.5	11.5	10.5
92.5°	15.3	15.3	15.3	15.3	14.9	14.2	13.4	12.7	11.9	10.9	9.9
95°	16.2	16.1	16.0	15.9	15.5	14.8	14.0	13.3	12.5	12.4	12.2
97.5°	15.6	15.5	15.4	15.3	15.0	14.4	13.7	13.1	12.5	25.7	38.9
100°	15.6	15.5	15.4	15.3	16.4	18.5	20.6	22.8	24.9	42.3	59.7
102.5°	16.4	16.4	16.4	16.4	30.6	58.9	87.2	115.6	143.9	142.4	140.9
105°	170.6	175.1	179.6	181.9	181.3	180.2	179.1	177.9	176.8	176.2	175.6
107.5°	217.2	216.7	216.2	215.9	215.6	215.0	214.3	213.7	213.1	212.2	211.3
110°	251.9	251.6	251.2	251.0	250.9	250.6	250.4	250.1	249.9	249.1	248.4

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	286.3	285.8	285.3	285.0	285.1	285.2	285.3	285.5	285.6	285.4	285.1
115°	320.7	320.7	320.7	320.7	320.6	320.3	320.1	319.8	319.6	319.7	319.9
117.5°	355.3	355.3	355.3	355.3	355.4	355.5	355.6	355.8	355.9	355.5	355.1
120°	388.1	388.3	388.6	388.7	388.6	388.3	388.1	387.8	387.6	387.7	387.9
122.5°	419.8	420.1	420.4	420.5	420.4	420.3	420.2	420.0	419.9	419.7	419.4
125°	450.8	450.7	450.6	450.5	450.3	449.9	449.6	449.2	448.8	449.0	449.3
127.5°	479.1	479.2	479.3	479.4	479.5	479.6	479.7	479.9	480.0	479.4	478.7
130°	507.2	507.2	507.2	507.2	507.1	507.0	506.9	506.7	506.6	506.2	505.8
132.5°	533.5	533.6	533.7	533.8	533.7	533.6	533.5	533.3	533.2	532.7	532.2
135°	558.8	558.6	558.3	558.2	558.1	557.8	557.5	557.3	557.0	556.5	556.0
137.5°	581.7	581.8	581.9	582.0	581.9	581.6	581.3	581.1	580.8	580.2	579.6
140°	604.4	604.3	604.2	604.1	603.9	603.5	603.2	602.8	602.4	602.1	601.9
142.5°	623.9	623.9	623.9	623.9	623.8	623.5	623.3	623.0	622.8	622.7	622.5
145°	643.2	643.0	642.7	642.6	642.5	642.4	642.3	642.1	642.0	642.0	642.0
147.5°	659.9	659.8	659.7	659.6	659.5	659.4	659.3	659.1	659.0	659.1	659.3
150°	675.8	675.7	675.6	675.5	675.5	675.5	675.5	675.5	675.5	675.6	675.7
152.5°	689.9	690.0	690.1	690.2	690.1	689.8	689.6	689.3	689.1	689.3	689.6
155°	702.3	702.6	703.0	703.2	703.0	702.5	702.0	701.5	701.0	701.4	701.8
157.5°	713.0	713.6	714.3	714.6	714.3	713.6	713.0	712.3	711.7	712.2	712.7
160°	723.4	724.2	724.9	725.3	724.9	724.2	723.4	722.7	721.9	722.0	722.2
162.5°	731.6	732.5	733.4	733.8	733.4	732.7	731.9	731.2	730.4	730.5	730.7
165°	739.5	740.6	741.7	742.3	741.8	740.8	739.8	738.8	737.8	737.8	737.8
167.5°	745.4	746.7	748.0	748.6	748.0	746.9	745.8	744.6	743.5	743.6	743.7
170°	750.5	751.8	753.1	753.7	753.2	752.2	751.1	750.1	749.1	749.0	748.9
172.5°	753.6	755.0	756.4	757.1	756.6	755.6	754.5	753.5	752.5	752.4	752.3
175°	756.1	757.6	759.1	759.9	759.3	758.2	757.1	755.9	754.8	754.7	754.5
177.5°	757.2	758.7	760.2	761.0	760.5	759.5	758.5	757.5	756.5	756.3	756.0
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	956.6	953.5	951.2	951.2	944.3	937.4	933.5	932.0	930.4	924.3	915.8
5°	995.7	985.8	978.8	971.9	960.4	948.1	935.8	928.9	918.9	905.1	895.1
7.5°	1039.5	1015.7	1008.0	999.6	976.5	955.8	938.9	924.3	908.2	890.5	872.8
10°	1076.4	1051.1	1034.2	1019.6	989.6	961.9	936.6	915.1	894.3	871.3	849.8
12.5°	1111.8	1075.7	1058.0	1036.5	1005.0	965.0	932.0	905.1	874.4	850.5	824.4
15°	1160.9	1100.2	1071.0	1057.2	1015.0	968.1	928.1	888.2	862.8	826.7	803.7
17.5°	1168.6	1119.4	1100.2	1064.9	1014.2	961.2	915.1	875.1	836.7	804.4	774.5
20°	1195.5	1131.0	1100.2	1078.0	1011.1	957.3	906.6	855.1	818.3	783.7	749.9
22.5°	1212.4	1139.4	1107.2	1071.8	1008.0	943.5	883.6	839.0	793.7	758.3	731.4
25°	1207.8	1134.8	1098.7	1065.7	988.1	923.5	869.7	812.9	770.6	732.2	696.9
27.5°	1205.5	1123.3	1084.9	1048.0	975.0	907.4	839.8	793.7	746.8	702.2	676.1
30°	1199.4	1108.7	1064.1	1024.2	948.1	877.4	819.8	766.0	719.2	678.4	643.9
32.5°	1178.6	1084.1	1041.1	998.1	918.9	848.2	789.8	739.9	693.0	650.8	617.7
35°	1150.9	1054.9	1008.0	962.7	883.6	812.1	758.3	706.1	662.3	621.6	590.1
37.5°	1123.3	1021.1	977.3	925.1	852.1	777.5	722.2	675.4	634.6	592.4	557.8
40°	1083.3	981.1	932.7	888.2	802.9	733.0	682.3	640.0	600.1	560.1	530.9
42.5°	1028.8	937.4	887.4	838.2	758.3	689.2	640.0	602.4	564.7	531.7	499.4
45°	973.5	884.3	839.8	796.0	709.2	643.9	598.5	563.9	532.4	496.3	470.2
47.5°	906.6	831.3	786.8	743.7	661.5	596.2	554.7	522.5	493.3	463.3	438.7
50°	838.2	772.9	732.2	687.6	609.3	550.1	509.4	482.5	458.7	430.3	410.3
52.5°	764.5	707.6	673.1	630.0	560.9	506.3	464.8	437.9	418.0	397.2	379.6
55°	686.1	644.6	607.7	573.2	507.9	458.7	421.8	398.0	384.2	365.0	349.6
57.5°	615.4	575.5	553.2	514.0	457.2	408.7	379.6	359.6	343.4	331.9	319.6
60°	541.7	509.4	484.8	456.4	406.4	365.7	335.0	323.5	306.6	298.1	292.7
62.5°	471.0	447.9	424.9	403.4	358.8	320.4	297.3	282.7	272.8	264.3	259.7
65°	404.1	382.6	366.5	347.3	310.4	279.7	258.2	246.6	236.6	234.3	229.0
67.5°	338.8	329.6	311.9	296.6	265.1	241.3	225.1	210.5	205.1	202.8	198.2
70°	283.5	272.8	258.9	245.9	222.0	201.3	186.7	181.3	173.6	172.9	167.5
72.5°	233.6	220.5	210.5	200.5	182.9	164.4	156.7	149.1	145.2	142.1	139.8
75°	185.2	175.9	169.0	160.6	145.2	132.9	122.2	119.1	116.8	116.0	114.5
77.5°	138.3	132.2	129.1	120.6	109.9	99.1	94.5	89.9	89.9	88.4	89.1
80°	98.3	94.5	90.7	86.1	76.8	72.2	68.4	65.3	63.8	63.0	63.8
82.5°	62.2	59.9	59.2	56.1	49.9	47.6	44.6	42.3	42.3	42.3	42.3
85°	34.6	34.6	34.6	30.0	27.7	25.4	23.8	23.0	23.0	23.0	23.8
87.5°	14.6	14.6	12.3	12.3	11.5	10.0	9.2	9.2	10.0	10.0	10.8
90°	9.4	8.4	7.9	7.2	5.8	4.5	3.1	1.7	3.1	4.5	5.8
92.5°	8.9	7.9	7.4	7.5	7.8	8.0	8.3	8.5	8.3	8.0	7.8
95°	12.1	12.0	11.9	14.0	18.3	22.6	26.9	31.2	26.9	22.6	18.3
97.5°	52.2	65.4	72.0	70.6	67.8	65.1	62.3	59.5	62.3	65.1	67.8
100°	77.0	94.4	103.1	102.0	99.7	97.4	95.2	92.9	95.2	97.4	99.7
102.5°	139.4	137.9	137.1	136.3	134.8	133.3	131.8	130.3	131.8	133.3	134.8
105°	174.9	174.3	174.0	173.6	172.9	172.1	171.4	170.6	171.4	172.1	172.9
107.5°	210.4	209.5	209.1	208.9	208.5	208.2	207.8	207.4	207.8	208.2	208.5
110°	247.6	246.9	246.5	246.3	245.9	245.6	245.2	244.8	245.2	245.6	245.9

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	284.9	284.6	284.5	284.1	283.4	282.6	281.9	281.1	281.9	282.6	283.4
115°	320.0	320.1	320.2	320.0	319.6	319.3	318.9	318.5	318.9	319.3	319.6
117.5°	354.8	354.4	354.2	353.9	353.4	352.9	352.4	351.9	352.4	352.9	353.4
120°	388.0	388.1	388.2	387.9	387.4	386.9	386.4	385.9	386.4	386.9	387.4
122.5°	419.2	418.9	418.8	418.7	418.4	418.1	417.9	417.6	417.9	418.1	418.4
125°	449.5	449.8	449.9	449.7	449.2	448.7	448.2	447.7	448.2	448.7	449.2
127.5°	478.1	477.4	477.1	477.0	476.9	476.8	476.7	476.6	476.7	476.8	476.9
130°	505.5	505.1	504.9	504.8	504.7	504.6	504.4	504.3	504.4	504.6	504.7
132.5°	531.7	531.2	531.0	530.9	530.6	530.3	530.1	529.8	530.1	530.3	530.6
135°	555.5	555.0	554.8	554.9	555.0	555.1	555.2	555.3	555.2	555.1	555.0
137.5°	578.9	578.3	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
140°	601.6	601.3	601.2	601.1	600.8	600.6	600.3	600.1	600.3	600.6	600.8
142.5°	622.4	622.3	622.2	621.9	621.4	620.9	620.4	619.9	620.4	620.9	621.4
145°	642.0	642.0	642.0	641.8	641.4	641.1	640.7	640.3	640.7	641.1	641.4
147.5°	659.4	659.5	659.6	659.2	658.5	657.7	657.0	656.2	657.0	657.7	658.5
150°	675.8	675.9	676.0	675.8	675.3	674.8	674.3	673.8	674.3	674.8	675.3
152.5°	689.8	690.1	690.2	690.0	689.6	689.3	688.9	688.5	688.9	689.3	689.6
155°	702.1	702.5	702.7	702.6	702.5	702.4	702.2	702.1	702.2	702.4	702.5
157.5°	713.2	713.7	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
160°	722.3	722.4	722.5	722.7	723.1	723.4	723.8	724.2	723.8	723.4	723.1
162.5°	730.8	730.9	731.0	731.3	731.8	732.3	732.8	733.3	732.8	732.3	731.8
165°	737.8	737.8	737.8	738.1	738.7	739.4	740.0	740.6	740.0	739.4	738.7
167.5°	743.8	743.9	744.0	744.3	745.0	745.6	746.3	746.9	746.3	745.6	745.0
170°	748.8	748.7	748.6	749.0	749.7	750.5	751.2	752.0	751.2	750.5	749.7
172.5°	752.2	752.1	752.0	752.4	753.1	753.9	754.6	755.4	754.6	753.9	753.1
175°	754.4	754.3	754.2	754.6	755.3	756.1	756.8	757.6	756.8	756.1	755.3
177.5°	755.8	755.5	755.4	755.8	756.7	757.6	758.4	759.3	758.4	757.6	756.7
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	913.5	910.5	912.0	904.3	897.4	887.4	879.0	877.4	875.9	880.5	877.4
5°	887.4	883.6	879.7	870.5	856.7	848.2	835.9	835.2	830.6	823.6	825.2
7.5°	859.0	856.7	851.3	836.7	824.4	809.8	799.8	791.4	787.5	781.4	779.1
10°	835.9	827.5	822.9	806.7	792.1	776.8	763.7	757.6	750.7	745.3	741.4
12.5°	804.4	802.1	789.1	776.0	763.7	746.0	736.1	718.4	709.2	713.8	712.2
15°	783.7	772.9	769.9	751.4	730.7	719.2	700.7	689.2	685.3	678.4	670.0
17.5°	756.0	749.1	738.4	721.5	697.6	681.5	668.4	657.7	653.1	643.9	636.9
20°	729.9	718.4	709.9	694.6	671.5	650.8	634.6	627.7	616.2	608.5	604.7
22.5°	706.1	697.6	685.3	662.3	642.3	622.3	603.1	593.1	582.4	577.8	571.6
25°	676.9	663.1	654.6	629.3	607.7	591.6	573.9	560.9	554.7	547.0	545.5
27.5°	648.5	635.4	625.4	603.1	577.0	556.3	545.5	536.3	525.5	525.5	521.7
30°	620.0	610.8	595.5	573.9	549.4	529.4	517.1	508.6	504.8	501.7	500.9
32.5°	591.6	579.3	570.1	540.9	522.5	504.0	494.8	487.9	483.3	482.5	483.3
35°	562.4	548.6	539.4	513.2	494.8	477.9	474.1	467.9	465.6	464.8	468.7
37.5°	531.7	520.9	509.4	487.9	467.1	457.2	449.5	447.2	446.4	451.0	452.5
40°	503.3	494.0	483.3	460.2	444.9	434.1	430.3	428.0	431.0	435.6	437.9
42.5°	476.4	463.3	454.8	434.1	420.3	414.1	409.5	409.5	412.6	418.0	421.8
45°	447.9	437.9	429.5	411.1	398.8	391.8	391.1	391.8	395.7	399.5	404.1
47.5°	420.3	410.3	401.1	385.7	374.9	371.1	370.3	371.1	377.2	382.6	388.0
50°	394.9	384.2	375.7	361.1	352.7	348.1	348.8	352.7	357.3	365.0	371.9
52.5°	365.0	357.3	349.6	336.5	328.8	325.8	328.1	331.1	339.6	345.0	353.4
55°	335.8	328.8	322.7	312.7	306.6	304.3	305.8	310.4	317.3	326.5	336.5
57.5°	308.9	301.2	295.0	288.1	281.2	282.0	282.7	288.9	297.3	305.8	317.3
60°	278.9	274.3	268.9	260.5	257.4	257.4	259.7	266.6	274.3	288.1	298.1
62.5°	252.0	245.9	242.0	236.6	232.0	232.8	238.2	244.3	253.5	265.1	278.1
65°	224.4	217.4	214.4	209.8	208.2	209.0	212.8	222.0	232.0	242.0	254.3
67.5°	193.6	191.3	188.2	183.6	185.2	185.9	189.8	197.5	208.2	218.2	232.0
70°	167.5	162.9	162.1	158.3	158.3	160.6	168.3	173.6	183.6	194.4	209.0
72.5°	139.8	136.0	136.0	132.9	135.2	137.5	141.4	149.1	158.3	169.0	181.3
75°	111.4	109.9	111.4	109.9	109.9	113.7	118.3	124.5	134.5	146.0	156.0
77.5°	86.1	86.1	85.3	87.6	87.6	89.9	96.0	102.2	109.9	119.1	129.8
80°	63.0	63.0	63.0	65.3	67.6	67.6	71.5	79.1	86.1	92.2	102.2
82.5°	43.0	43.0	43.0	44.6	47.6	47.6	52.2	56.9	64.5	69.9	74.5
85°	26.1	26.1	25.4	26.9	27.7	30.0	33.8	36.9	40.7	45.3	49.9
87.5°	11.5	11.5	12.3	13.1	13.8	15.4	16.9	18.4	22.3	23.8	26.1
90°	7.2	7.9	8.4	9.4	10.5	11.5	12.5	13.3	14.0	14.8	15.5
92.5°	7.5	7.4	7.9	8.9	9.9	10.9	11.9	12.7	13.4	14.2	14.9
95°	14.0	11.9	12.0	12.1	12.2	12.4	12.5	13.3	14.0	14.8	15.5
97.5°	70.6	72.0	65.4	52.2	38.9	25.7	12.5	13.1	13.7	14.4	15.0
100°	102.0	103.1	94.4	77.0	59.7	42.3	24.9	22.8	20.6	18.5	16.4
102.5°	136.3	137.1	137.9	139.4	140.9	142.4	143.9	115.6	87.2	58.9	30.6
105°	173.6	174.0	174.3	174.9	175.6	176.2	176.8	177.9	179.1	180.2	181.3
107.5°	208.9	209.1	209.5	210.4	211.3	212.2	213.1	213.7	214.3	215.0	215.6
110°	246.3	246.5	246.9	247.6	248.4	249.1	249.9	250.1	250.4	250.6	250.9



TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.1	284.5	284.6	284.9	285.1	285.4	285.6	285.5	285.3	285.2	285.1
115°	320.0	320.2	320.1	320.0	319.9	319.7	319.6	319.8	320.1	320.3	320.6
117.5°	353.9	354.2	354.4	354.8	355.1	355.5	355.9	355.8	355.6	355.5	355.4
120°	387.9	388.2	388.1	388.0	387.9	387.7	387.6	387.8	388.1	388.3	388.6
122.5°	418.7	418.8	418.9	419.2	419.4	419.7	419.9	420.0	420.2	420.3	420.4
125°	449.7	449.9	449.8	449.5	449.3	449.0	448.8	449.2	449.6	449.9	450.3
127.5°	477.0	477.1	477.4	478.1	478.7	479.4	480.0	479.9	479.7	479.6	479.5
130°	504.8	504.9	505.1	505.5	505.8	506.2	506.6	506.7	506.9	507.0	507.1
132.5°	530.9	531.0	531.2	531.7	532.2	532.7	533.2	533.3	533.5	533.6	533.7
135°	554.9	554.8	555.0	555.5	556.0	556.5	557.0	557.3	557.5	557.8	558.1
137.5°	578.0	578.0	578.3	578.9	579.6	580.2	580.8	581.1	581.3	581.6	581.9
140°	601.1	601.2	601.3	601.6	601.9	602.1	602.4	602.8	603.2	603.5	603.9
142.5°	621.9	622.2	622.3	622.4	622.5	622.7	622.8	623.0	623.3	623.5	623.8
145°	641.8	642.0	642.0	642.0	642.0	642.0	642.0	642.1	642.3	642.4	642.5
147.5°	659.2	659.6	659.5	659.4	659.3	659.1	659.0	659.1	659.3	659.4	659.5
150°	675.8	676.0	675.9	675.8	675.7	675.6	675.5	675.5	675.5	675.5	675.5
152.5°	690.0	690.2	690.1	689.8	689.6	689.3	689.1	689.3	689.6	689.8	690.1
155°	702.6	702.7	702.5	702.1	701.8	701.4	701.0	701.5	702.0	702.5	703.0
157.5°	714.0	714.0	713.7	713.2	712.7	712.2	711.7	712.3	713.0	713.6	714.3
160°	722.7	722.5	722.4	722.3	722.2	722.0	721.9	722.7	723.4	724.2	724.9
162.5°	731.3	731.0	730.9	730.8	730.7	730.5	730.4	731.2	731.9	732.7	733.4
165°	738.1	737.8	737.8	737.8	737.8	737.8	737.8	738.8	739.8	740.8	741.8
167.5°	744.3	744.0	743.9	743.8	743.7	743.6	743.5	744.6	745.8	746.9	748.0
170°	749.0	748.6	748.7	748.8	748.9	749.0	749.1	750.1	751.1	752.2	753.2
172.5°	752.4	752.0	752.1	752.2	752.3	752.4	752.5	753.5	754.5	755.6	756.6
175°	754.6	754.2	754.3	754.4	754.5	754.7	754.8	755.9	757.1	758.2	759.3
177.5°	755.8	755.4	755.5	755.8	756.0	756.3	756.5	757.5	758.5	759.5	760.5
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	875.1	874.4	870.5	872.0	867.4	869.0	871.3	872.0	875.1	872.8	872.0
5°	821.3	819.8	817.5	815.2	814.4	817.5	812.1	813.7	815.2	817.5	820.6
7.5°	777.5	776.8	774.5	770.6	769.1	767.6	768.3	773.7	772.9	772.2	777.5
10°	737.6	738.4	733.7	733.0	728.4	727.6	728.4	729.9	732.2	735.3	736.1
12.5°	696.1	706.1	697.6	694.6	687.6	691.5	693.0	686.1	690.0	692.3	703.8
15°	670.0	665.4	660.0	660.0	656.9	655.4	651.5	656.9	660.0	664.6	663.1
17.5°	633.9	626.2	623.1	620.0	620.8	623.9	615.4	627.7	627.7	630.0	626.2
20°	602.4	596.2	592.4	590.8	588.5	587.0	586.2	589.3	593.9	595.5	599.3
22.5°	569.3	569.3	563.2	560.9	559.3	557.0	560.9	558.6	561.6	564.7	570.9
25°	541.7	541.7	539.4	536.3	534.0	532.4	534.8	534.0	536.3	540.1	541.7
27.5°	519.4	517.1	516.3	515.5	514.8	515.5	514.8	517.1	519.4	520.2	518.6
30°	500.2	497.9	498.6	498.6	499.4	498.6	497.9	500.2	500.9	499.4	500.2
32.5°	482.5	482.5	484.0	484.8	484.8	485.6	486.3	484.8	485.6	483.3	484.0
35°	467.9	469.4	471.0	471.8	472.5	471.8	473.3	472.5	471.0	469.4	468.7
37.5°	453.3	454.8	457.9	458.7	461.0	461.8	460.2	460.2	459.5	456.4	454.8
40°	437.9	439.5	443.3	445.6	447.2	449.5	447.9	447.9	444.9	441.8	439.5
42.5°	423.3	426.4	430.3	432.6	435.6	435.6	435.6	434.1	430.3	427.2	424.9
45°	408.7	409.5	414.9	418.7	421.8	421.8	421.8	419.5	417.2	411.1	408.0
47.5°	392.6	394.9	401.1	404.9	408.0	408.7	408.7	406.4	401.8	396.5	392.6
50°	374.9	378.8	385.7	391.1	394.9	396.5	394.1	392.6	387.2	381.1	376.5
52.5°	358.0	362.6	371.1	375.7	381.1	381.9	381.1	378.8	372.6	364.2	360.3
55°	341.1	345.0	354.2	361.9	366.5	368.0	366.5	362.6	355.0	346.5	342.7
57.5°	322.7	328.1	338.1	345.7	351.1	351.9	350.4	346.5	340.4	329.6	324.2
60°	303.5	310.4	320.4	328.1	335.0	335.8	334.2	328.8	321.2	310.4	305.8
62.5°	284.3	289.7	301.2	309.6	315.0	318.9	315.8	310.4	302.7	292.0	285.0
65°	262.0	269.7	279.7	287.4	293.5	294.3	292.7	288.1	279.7	268.1	262.8
67.5°	240.5	245.9	255.9	265.8	268.1	270.4	268.1	263.5	256.6	246.6	238.9
70°	214.4	219.0	231.3	238.2	241.3	243.6	242.0	237.4	231.3	222.0	215.9
72.5°	188.2	192.1	203.6	209.0	215.1	214.4	213.6	210.5	202.1	195.9	192.1
75°	160.6	165.2	172.9	179.8	182.1	182.1	182.1	179.8	174.4	164.4	160.6
77.5°	135.2	137.5	143.7	147.5	149.8	150.6	149.8	146.0	142.9	136.0	133.7
80°	103.7	109.9	114.5	115.2	118.3	118.3	118.3	116.8	113.7	106.8	106.0
82.5°	78.4	79.9	84.5	86.8	88.4	87.6	87.6	84.5	83.7	79.9	78.4
85°	53.0	55.3	54.6	57.6	58.4	56.9	56.9	58.4	54.6	55.3	53.0
87.5°	29.2	29.2	30.7	30.0	33.0	33.0	31.5	32.3	30.7	30.0	29.2
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	15.9	16.0	16.1	16.2	16.3	16.4	16.3	16.2	16.1	16.0	15.9
97.5°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
100°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
102.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
105°	181.9	179.6	175.1	170.6	166.0	161.5	166.0	170.6	175.1	179.6	181.9
107.5°	215.9	216.2	216.7	217.2	217.7	218.2	217.7	217.2	216.7	216.2	215.9
110°	251.0	251.2	251.6	251.9	252.3	252.7	252.3	251.9	251.6	251.2	251.0

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	285.0	285.3	285.8	286.3	286.8	287.3	286.8	286.3	285.8	285.3	285.0
115°	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
117.5°	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3
120°	388.7	388.6	388.3	388.1	387.8	387.6	387.8	388.1	388.3	388.6	388.7
122.5°	420.5	420.4	420.1	419.8	419.6	419.3	419.6	419.8	420.1	420.4	420.5
125°	450.5	450.6	450.7	450.8	451.0	451.1	451.0	450.8	450.7	450.6	450.5
127.5°	479.4	479.3	479.2	479.1	478.9	478.8	478.9	479.1	479.2	479.3	479.4
130°	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2
132.5°	533.8	533.7	533.6	533.5	533.3	533.2	533.3	533.5	533.6	533.7	533.8
135°	558.2	558.3	558.6	558.8	559.1	559.3	559.1	558.8	558.6	558.3	558.2
137.5°	582.0	581.9	581.8	581.7	581.5	581.4	581.5	581.7	581.8	581.9	582.0
140°	604.1	604.2	604.3	604.4	604.5	604.6	604.5	604.4	604.3	604.2	604.1
142.5°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
145°	642.6	642.7	643.0	643.2	643.5	643.7	643.5	643.2	643.0	642.7	642.6
147.5°	659.6	659.7	659.8	659.9	660.1	660.2	660.1	659.9	659.8	659.7	659.6
150°	675.5	675.6	675.7	675.8	675.9	676.0	675.9	675.8	675.7	675.6	675.5
152.5°	690.2	690.1	690.0	689.9	689.7	689.6	689.7	689.9	690.0	690.1	690.2
155°	703.2	703.0	702.6	702.3	701.9	701.5	701.9	702.3	702.6	703.0	703.2
157.5°	714.6	714.3	713.6	713.0	712.3	711.7	712.3	713.0	713.6	714.3	714.6
160°	725.3	724.9	724.2	723.4	722.7	721.9	722.7	723.4	724.2	724.9	725.3
162.5°	733.8	733.4	732.5	731.6	730.8	729.9	730.8	731.6	732.5	733.4	733.8
165°	742.3	741.7	740.6	739.5	738.3	737.2	738.3	739.5	740.6	741.7	742.3
167.5°	748.6	748.0	746.7	745.4	744.2	742.9	744.2	745.4	746.7	748.0	748.6
170°	753.7	753.1	751.8	750.5	749.3	748.0	749.3	750.5	751.8	753.1	753.7
172.5°	757.1	756.4	755.0	753.6	752.2	750.8	752.2	753.6	755.0	756.4	757.1
175°	759.9	759.1	757.6	756.1	754.6	753.1	754.6	756.1	757.6	759.1	759.9
177.5°	761.0	760.2	758.7	757.2	755.7	754.2	755.7	757.2	758.7	760.2	761.0
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4	927.4
2.5°	872.0	876.7	872.0	875.1	876.7	880.5	882.0	888.9	891.3	896.6	896.6
5°	819.8	822.1	822.9	825.9	829.0	836.7	842.1	852.1	863.6	865.1	872.0
7.5°	777.5	781.4	787.5	785.2	790.6	802.1	809.0	821.3	832.9	839.0	847.5
10°	739.9	744.5	746.8	749.1	759.1	769.1	779.8	788.3	803.7	812.9	819.8
12.5°	709.2	705.3	709.9	718.4	729.9	736.1	750.7	763.7	775.2	785.2	791.4
15°	669.2	672.3	676.9	691.5	694.6	709.9	715.3	729.9	751.4	760.6	768.3
17.5°	630.8	640.8	650.0	655.4	664.6	676.9	692.3	708.4	722.2	733.0	742.2
20°	600.1	610.0	615.4	619.3	628.5	645.4	660.0	680.0	697.6	706.1	718.4
22.5°	575.5	575.5	583.2	594.7	600.1	616.2	628.5	650.0	669.2	680.0	691.5
25°	544.7	549.4	555.5	565.5	573.2	586.2	603.9	622.3	643.1	652.3	666.9
27.5°	519.4	524.8	533.2	535.5	543.2	554.7	573.2	593.1	614.7	624.6	636.9
30°	500.2	503.3	506.3	510.9	517.8	527.8	543.2	560.9	587.0	594.7	610.0
32.5°	483.3	484.8	486.3	490.2	494.0	504.0	516.3	535.5	557.0	568.6	582.4
35°	467.9	466.4	467.1	469.4	473.3	477.1	490.2	506.3	526.3	540.1	550.9
37.5°	453.3	450.2	449.5	449.5	451.0	455.6	465.6	479.4	500.9	512.5	523.2
40°	437.2	434.1	432.6	431.8	431.0	434.1	441.8	455.6	472.5	483.3	495.6
42.5°	421.8	418.7	414.9	414.1	412.6	414.1	419.5	432.6	447.2	457.9	467.9
45°	406.4	401.1	396.5	393.4	394.1	391.8	395.7	405.7	422.6	429.5	439.5
47.5°	389.5	383.4	377.2	374.2	371.1	372.6	374.2	382.6	397.2	404.1	414.1
50°	373.4	365.0	358.0	354.2	351.9	350.4	351.9	360.3	371.1	377.2	385.7
52.5°	355.0	346.5	339.6	333.5	330.4	328.1	328.8	336.5	346.5	352.7	361.1
55°	338.1	327.3	318.1	310.4	308.1	307.3	306.6	311.9	320.4	326.5	333.5
57.5°	318.9	308.1	298.1	288.9	284.3	283.5	283.5	285.0	295.8	300.4	304.3
60°	299.6	288.1	277.4	268.9	262.0	259.7	258.9	262.0	267.4	272.0	277.4
62.5°	278.1	266.6	253.5	245.9	238.9	232.8	235.1	235.9	243.6	245.9	250.5
65°	257.4	244.3	233.6	221.3	213.6	209.8	208.2	209.8	215.9	216.7	219.7
67.5°	233.6	221.3	208.2	199.8	192.8	185.9	184.4	184.4	187.5	189.8	193.6
70°	210.5	198.2	183.6	174.4	167.5	161.3	159.0	158.3	160.6	162.1	166.0
72.5°	183.6	171.3	160.6	150.6	142.1	137.5	135.2	133.7	136.0	137.5	138.3
75°	155.2	145.2	134.5	124.5	119.1	114.5	111.4	109.1	110.6	110.6	110.6
77.5°	128.3	118.3	109.9	103.0	96.0	90.7	88.4	86.1	86.8	86.8	88.4
80°	99.9	93.0	86.1	79.9	73.8	69.1	67.6	65.3	63.8	63.0	63.0
82.5°	73.8	68.4	62.2	56.9	53.8	49.2	47.6	44.6	44.6	43.8	43.8
85°	49.2	46.1	40.0	36.1	33.8	31.5	30.0	28.4	26.1	26.1	25.4
87.5°	26.1	24.6	23.0	18.4	18.4	16.1	15.4	14.6	12.3	13.1	13.1
90°	15.5	14.8	14.0	13.3	12.5	11.5	10.5	9.4	8.4	7.9	7.2
92.5°	14.9	14.2	13.4	12.7	11.9	10.9	9.9	8.9	7.9	7.4	7.5
95°	15.5	14.8	14.0	13.3	12.5	12.4	12.2	12.1	12.0	11.9	14.0
97.5°	15.0	14.4	13.7	13.1	12.5	25.7	38.9	52.2	65.4	72.0	70.6
100°	16.4	18.5	20.6	22.8	24.9	42.3	59.7	77.0	94.4	103.1	102.0
102.5°	30.6	58.9	87.2	115.6	143.9	142.4	140.9	139.4	137.9	137.1	136.3
105°	181.3	180.2	179.1	177.9	176.8	176.2	175.6	174.9	174.3	174.0	173.6
107.5°	215.6	215.0	214.3	213.7	213.1	212.2	211.3	210.4	209.5	209.1	208.9
110°	250.9	250.6	250.4	250.1	249.9	249.1	248.4	247.6	246.9	246.5	246.3

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	285.1	285.2	285.3	285.5	285.6	285.4	285.1	284.9	284.6	284.5	284.1
115°	320.6	320.3	320.1	319.8	319.6	319.7	319.9	320.0	320.1	320.2	320.0
117.5°	355.4	355.5	355.6	355.8	355.9	355.5	355.1	354.8	354.4	354.2	353.9
120°	388.6	388.3	388.1	387.8	387.6	387.7	387.9	388.0	388.1	388.2	387.9
122.5°	420.4	420.3	420.2	420.0	419.9	419.7	419.4	419.2	418.9	418.8	418.7
125°	450.3	449.9	449.6	449.2	448.8	449.0	449.3	449.5	449.8	449.9	449.7
127.5°	479.5	479.6	479.7	479.9	480.0	479.4	478.7	478.1	477.4	477.1	477.0
130°	507.1	507.0	506.9	506.7	506.6	506.2	505.8	505.5	505.1	504.9	504.8
132.5°	533.7	533.6	533.5	533.3	533.2	532.7	532.2	531.7	531.2	531.0	530.9
135°	558.1	557.8	557.5	557.3	557.0	556.5	556.0	555.5	555.0	554.8	554.9
137.5°	581.9	581.6	581.3	581.1	580.8	580.2	579.6	578.9	578.3	578.0	578.0
140°	603.9	603.5	603.2	602.8	602.4	602.1	601.9	601.6	601.3	601.2	601.1
142.5°	623.8	623.5	623.3	623.0	622.8	622.7	622.5	622.4	622.3	622.2	621.9
145°	642.5	642.4	642.3	642.1	642.0	642.0	642.0	642.0	642.0	642.0	641.8
147.5°	659.5	659.4	659.3	659.1	659.0	659.1	659.3	659.4	659.5	659.6	659.2
150°	675.5	675.5	675.5	675.5	675.5	675.6	675.7	675.8	675.9	676.0	675.8
152.5°	690.1	689.8	689.6	689.3	689.1	689.3	689.6	689.8	690.1	690.2	690.0
155°	703.0	702.5	702.0	701.5	701.0	701.4	701.8	702.1	702.5	702.7	702.6
157.5°	714.3	713.6	713.0	712.3	711.7	712.2	712.7	713.2	713.7	714.0	714.0
160°	724.9	724.2	723.4	722.7	721.9	722.0	722.2	722.3	722.4	722.5	722.7
162.5°	733.4	732.7	731.9	731.2	730.4	730.5	730.7	730.8	730.9	731.0	731.3
165°	741.8	740.8	739.8	738.8	737.8	737.8	737.8	737.8	737.8	737.8	738.1
167.5°	748.0	746.9	745.8	744.6	743.5	743.6	743.7	743.8	743.9	744.0	744.3
170°	753.2	752.2	751.1	750.1	749.1	749.0	748.9	748.8	748.7	748.6	749.0
172.5°	756.6	755.6	754.5	753.5	752.5	752.4	752.3	752.2	752.1	752.0	752.4
175°	759.3	758.2	757.1	755.9	754.8	754.7	754.5	754.4	754.3	754.2	754.6
177.5°	760.5	759.5	758.5	757.5	756.5	756.3	756.0	755.8	755.5	755.4	755.8
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	927.4	927.4	927.4	927.4
2.5°	902.0	909.7	916.6	927.4
5°	882.0	892.8	907.4	923.5
7.5°	859.0	875.9	895.1	917.4
10°	837.5	856.7	881.3	908.2
12.5°	815.2	838.2	865.1	894.3
15°	789.8	812.9	842.9	882.0
17.5°	766.8	794.4	826.7	868.2
20°	739.9	766.0	801.4	849.0
22.5°	716.1	746.0	785.2	826.7
25°	690.0	716.1	755.3	805.2
27.5°	663.8	696.1	733.7	782.2
30°	638.5	665.4	706.1	756.8
32.5°	610.8	643.1	680.7	728.4
35°	580.9	611.6	646.9	698.4
37.5°	554.0	583.9	620.0	665.4
40°	524.0	555.5	588.5	633.9
42.5°	494.8	523.2	556.3	597.8
45°	466.4	491.0	520.9	557.0
47.5°	437.2	457.9	485.6	517.8
50°	405.7	428.0	448.7	475.6
52.5°	376.5	395.7	412.6	434.9
55°	348.1	361.1	374.9	391.8
57.5°	318.1	328.1	338.1	355.7
60°	288.1	297.3	302.7	314.2
62.5°	258.9	262.8	269.7	276.6
65°	226.7	232.0	235.9	244.3
67.5°	197.5	199.8	203.6	209.0
70°	166.7	172.1	173.6	177.5
72.5°	140.6	142.9	144.4	145.2
75°	111.4	113.7	115.2	119.9
77.5°	87.6	86.8	89.9	90.7
80°	64.5	62.2	63.0	66.1
82.5°	42.3	43.0	42.3	42.3
85°	26.1	25.4	23.8	24.6
87.5°	11.5	11.5	10.8	10.8
90°	5.8	4.5	3.1	1.7
92.5°	7.8	8.0	8.3	8.5
95°	18.3	22.6	26.9	31.2
97.5°	67.8	65.1	62.3	59.5
100°	99.7	97.4	95.2	92.9
102.5°	134.8	133.3	131.8	130.3
105°	172.9	172.1	171.4	170.6
107.5°	208.5	208.2	207.8	207.4
110°	245.9	245.6	245.2	244.8

TEST NUMBER: P1001586

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	283.4	282.6	281.9	281.1
115°	319.6	319.3	318.9	318.5
117.5°	353.4	352.9	352.4	351.9
120°	387.4	386.9	386.4	385.9
122.5°	418.4	418.1	417.9	417.6
125°	449.2	448.7	448.2	447.7
127.5°	476.9	476.8	476.7	476.6
130°	504.7	504.6	504.4	504.3
132.5°	530.6	530.3	530.1	529.8
135°	555.0	555.1	555.2	555.3
137.5°	578.0	578.0	578.0	578.0
140°	600.8	600.6	600.3	600.1
142.5°	621.4	620.9	620.4	619.9
145°	641.4	641.1	640.7	640.3
147.5°	658.5	657.7	657.0	656.2
150°	675.3	674.8	674.3	673.8
152.5°	689.6	689.3	688.9	688.5
155°	702.5	702.4	702.2	702.1
157.5°	714.0	714.0	714.0	714.0
160°	723.1	723.4	723.8	724.2
162.5°	731.8	732.3	732.8	733.3
165°	738.7	739.4	740.0	740.6
167.5°	745.0	745.6	746.3	746.9
170°	749.7	750.5	751.2	752.0
172.5°	753.1	753.9	754.6	755.4
175°	755.3	756.1	756.8	757.6
177.5°	756.7	757.6	758.4	759.3
180°	757.6	757.6	757.6	757.6

(END OF REPORT)