

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: P1001587

Luminaire Tested: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001587
REPORT IS A COMBINATION OF REPORTS P996209 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D590UB2750-4F0-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

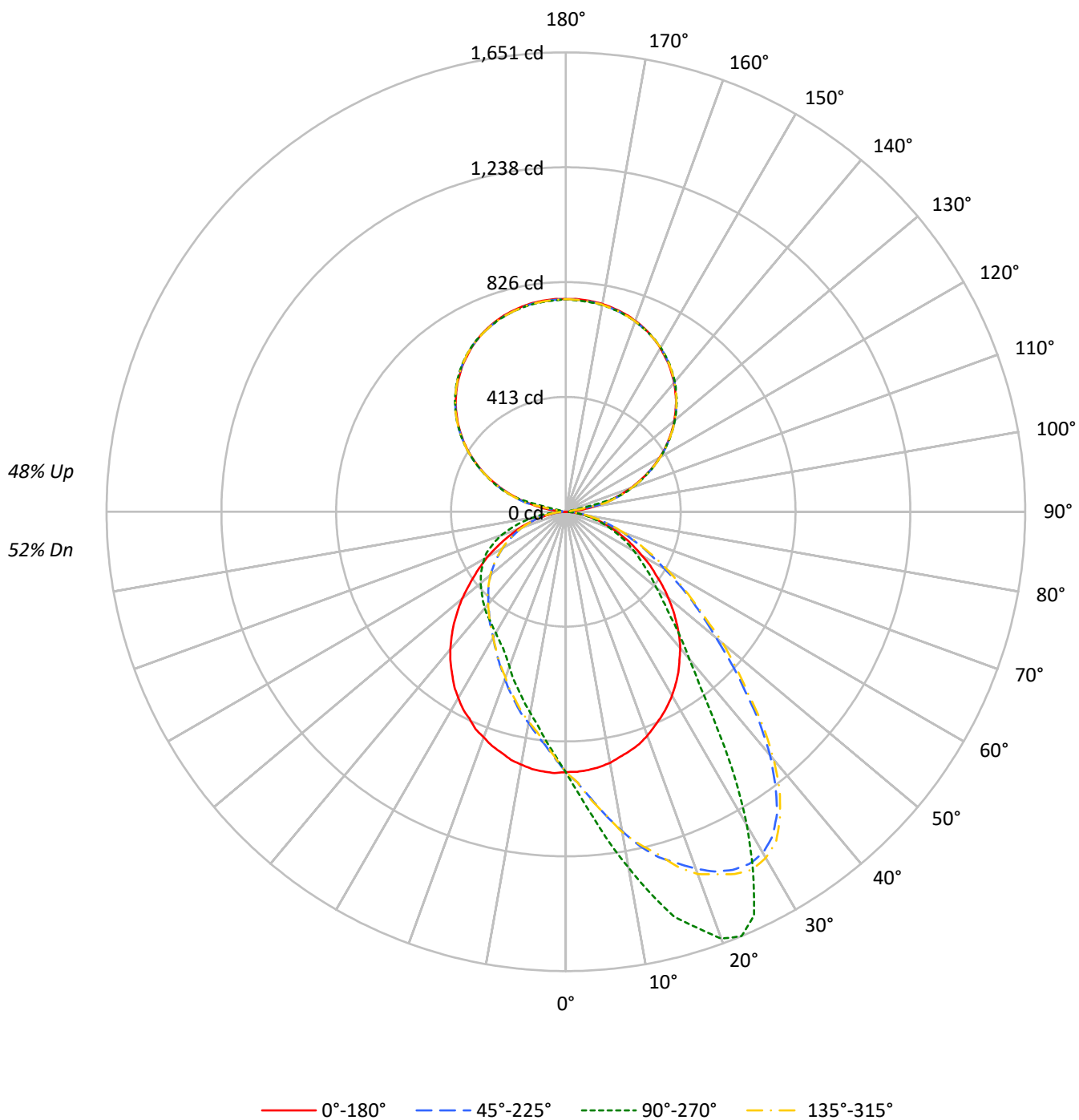
Lumens per Lamp: N/A
Luminaire Lumens: 4947.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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					0
RW	70	50	30	10	70	50	30	10	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	58	58	58
1	99	94	90	87	91	87	84	81	74	72	70	63	61	59	52	51	50	50	50	44
2	90	83	77	71	83	77	71	67	66	62	58	55	52	50	46	44	42	42	42	38
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36	36	36	32
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	31	31	31	28
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	27	27	27	24
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	24	24	21
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	22	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19	19	19	17
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	23	20	18	18	18	15
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	22	18	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7627	7627	7627	7627
5°	7608	8750	7652	6575
10°	7551	10209	7608	5769
15°	7460	11768	7512	5161
20°	7364	12762	7417	4627
25°	7223	12615	7292	4233
30°	7085	10427	7171	4030
35°	6892	7770	6968	3907
40°	6665	5853	6730	3847
45°	6321	4698	6400	3765
50°	5909	3958	5996	3727
55°	5425	3445	5510	3683
60°	4954	3033	5099	3621
65°	4512	2610	4556	3471
70°	3993	2148	4080	3197
75°	3484	1650	3461	2716
80°	2739	1085	2710	2061
85°	1805	486	1688	1201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 9863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.8
10°-20°	281.0	5.7
20°-30°	446.4	9.0
30°-40°	496.0	10.0
40°-50°	451.0	9.1
50°-60°	368.6	7.5
60°-70°	263.1	5.3
70°-80°	144.8	2.9
80°-90°	40.7	0.8
90°-100°	25.4	0.5
100°-110°	167.0	3.4
110°-120°	319.0	6.4
120°-130°	404.9	8.2
130°-140°	433.2	8.8
140°-150°	405.0	8.2
150°-160°	326.6	6.6
160°-170°	210.7	4.3
170°-180°	72.6	1.5
0°-30°	818.4	16.5
0°-40°	1314.4	26.6
0°-60°	2134.0	43.1
0°-90°	2582.6	52.2
90°-120°	511.4	10.3
90°-150°	1754.5	35.5
90°-180°	2364.0	47.8
0°-180°	4947.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	935	935	935	935	935	
5°	932	1097	937	824	932	88
15°	890	1507	896	661	890	251
25°	812	1600	820	537	812	374
35°	704	946	712	476	704	440
45°	562	531	569	425	562	433
55°	395	347	401	371	395	355
65°	246	223	249	297	246	243
75°	121	112	120	184	121	127
85°	25	23	23	57	25	29
90°	2	17	2	17	2	3
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°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	935.3	944.6	948.5	951.6	961.7	964.8	965.6	970.2	974.1	974.9	974.9
5°	931.5	946.2	957.8	968.7	984.9	991.9	1000.4	1009.7	1022.1	1029.9	1033.8
7.5°	925.3	947.0	964.8	983.4	1005.9	1019.8	1027.6	1052.4	1069.4	1083.4	1100.4
10°	916.0	943.9	969.4	996.6	1028.3	1045.4	1062.4	1092.6	1116.7	1143.8	1165.5
12.5°	902.0	938.4	969.4	1007.4	1046.9	1067.1	1087.2	1139.9	1167.8	1191.8	1230.6
15°	889.6	926.0	970.2	1009.0	1057.8	1088.0	1117.4	1151.5	1195.7	1247.6	1284.8
17.5°	875.7	921.4	962.5	1016.7	1071.0	1099.6	1123.6	1176.3	1238.3	1289.5	1323.6
20°	856.3	902.8	957.0	1014.4	1078.7	1101.2	1132.9	1203.5	1259.3	1309.6	1365.4
22.5°	833.8	888.1	945.4	1000.4	1067.1	1114.3	1149.2	1211.2	1278.6	1336.8	1399.5
25°	812.1	871.0	921.4	996.6	1067.1	1098.8	1138.4	1212.0	1285.6	1356.1	1420.4
27.5°	788.9	843.9	912.1	971.8	1051.6	1086.4	1129.1	1209.7	1287.9	1358.4	1427.4
30°	763.3	822.2	878.8	949.3	1026.8	1071.7	1111.2	1198.8	1278.6	1352.3	1416.6
32.5°	734.6	790.4	850.9	917.5	998.9	1044.6	1094.2	1184.1	1269.3	1332.9	1382.5
35°	704.4	761.0	813.7	881.9	965.6	1011.3	1059.3	1158.5	1243.0	1294.9	1323.6
37.5°	671.1	724.6	776.5	843.9	927.6	976.4	1025.2	1121.3	1201.1	1244.5	1236.8
40°	639.3	687.4	735.4	799.0	886.5	938.4	981.1	1077.9	1147.7	1166.3	1140.7
42.5°	602.9	644.0	690.5	755.6	840.8	889.6	943.1	1031.4	1083.4	1075.6	1032.2
45°	561.8	598.2	644.7	706.0	792.8	843.1	888.1	971.8	1009.7	990.4	911.3
47.5°	522.3	557.9	595.9	657.1	741.6	784.2	829.9	905.1	926.8	885.7	806.7
50°	479.7	509.1	548.6	606.8	685.8	730.8	768.7	829.2	836.9	786.6	704.4
52.5°	438.6	463.4	501.4	558.7	632.3	668.0	705.2	758.7	752.5	700.5	621.5
55°	395.2	418.5	453.3	506.0	571.1	605.2	637.0	684.3	671.1	617.6	548.6
57.5°	358.8	375.1	409.2	458.0	511.5	548.6	575.8	613.0	592.8	539.4	475.0
60°	316.9	337.1	365.8	405.3	458.0	482.8	506.8	531.6	517.7	466.5	409.2
62.5°	279.0	294.5	319.3	357.2	398.3	420.8	446.4	461.9	447.9	400.6	352.6
65°	246.4	258.8	278.2	309.2	348.7	367.3	382.0	396.8	385.1	341.0	306.1
67.5°	210.8	221.6	237.9	262.7	296.0	309.2	323.1	333.2	320.0	290.6	256.5
70°	179.0	186.8	202.3	220.9	244.1	256.5	268.1	278.2	266.6	241.8	216.2
72.5°	146.5	152.7	166.6	179.8	200.7	209.2	217.8	225.5	221.6	198.4	177.5
75°	120.9	123.2	132.5	143.4	156.5	165.8	172.0	176.7	173.6	155.0	141.8
77.5°	91.4	94.5	101.5	110.0	121.7	127.1	131.0	135.6	131.7	117.0	107.7
80°	66.6	67.4	71.3	79.0	86.8	87.6	91.4	97.6	95.3	85.2	78.3
82.5°	42.6	44.9	46.5	51.1	56.6	58.1	60.4	62.0	61.2	55.0	52.7
85°	24.8	24.8	26.3	29.4	31.0	33.3	34.1	34.9	36.4	32.5	30.2
87.5°	10.8	11.6	11.6	12.4	13.9	13.9	14.7	15.5	16.3	15.5	13.2
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°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	977.2	991.1	997.3	998.9	1007.4	1002.0	1004.3	1003.5	1009.7	1010.5	1010.5
5°	1048.5	1064.8	1070.2	1077.9	1089.5	1092.6	1090.3	1095.0	1103.5	1097.3	1106.6
7.5°	1123.6	1141.5	1153.9	1170.9	1174.8	1184.9	1191.1	1196.5	1198.0	1198.8	1200.4
10°	1193.4	1215.9	1232.9	1261.6	1267.8	1273.2	1300.3	1289.5	1303.4	1298.8	1300.3
12.5°	1250.0	1294.1	1308.1	1356.1	1360.8	1379.4	1377.8	1394.9	1398.0	1404.2	1398.0
15°	1324.4	1375.5	1398.0	1425.1	1440.6	1462.3	1466.2	1489.4	1498.7	1507.2	1498.7
17.5°	1392.5	1419.7	1477.0	1498.7	1508.8	1520.4	1549.9	1558.4	1572.3	1566.9	1582.4
20°	1426.6	1465.4	1525.8	1563.0	1578.5	1589.4	1614.2	1627.4	1632.8	1632.8	1634.3
22.5°	1456.9	1512.7	1557.6	1600.2	1614.2	1621.9	1636.6	1646.7	1649.0	1650.6	1652.1
25°	1484.0	1534.4	1570.8	1594.8	1600.2	1600.2	1608.8	1602.6	1592.5	1600.2	1604.9
27.5°	1484.0	1519.6	1535.9	1544.4	1544.4	1523.5	1511.1	1485.5	1463.8	1457.6	1471.6
30°	1459.2	1475.5	1453.0	1432.1	1415.8	1401.8	1353.0	1314.3	1306.5	1301.1	1322.0
32.5°	1401.8	1380.9	1336.8	1276.3	1252.3	1220.5	1182.5	1153.1	1135.3	1129.1	1124.4
35°	1300.3	1246.1	1188.7	1107.4	1090.3	1050.0	998.1	976.4	947.0	946.2	956.3
37.5°	1189.5	1105.8	1043.8	966.3	942.3	899.7	850.9	828.4	808.3	792.8	811.4
40°	1060.1	987.3	892.7	829.2	795.1	772.6	731.5	706.7	697.4	689.7	701.3
42.5°	939.2	859.4	785.8	720.7	692.8	667.2	640.1	616.1	609.1	608.3	616.8
45°	819.1	740.8	672.6	616.8	599.0	583.5	557.2	550.2	538.6	530.8	534.7
47.5°	723.0	642.4	585.8	543.2	527.7	514.6	497.5	485.9	475.8	472.7	477.4
50°	628.5	574.2	516.1	480.5	468.8	456.4	443.3	432.4	427.8	424.7	427.8
52.5°	552.5	494.4	454.9	426.2	414.6	405.3	396.0	391.3	385.1	386.7	389.8
55°	484.3	433.2	399.9	378.9	372.0	368.1	356.5	351.0	348.7	347.2	348.7
57.5°	420.0	382.8	358.0	340.2	330.9	328.6	319.3	319.3	316.9	314.6	315.4
60°	368.9	337.1	313.1	299.1	297.6	293.7	287.5	286.7	281.3	283.6	284.4
62.5°	316.9	291.4	275.1	266.6	261.2	259.6	255.7	255.0	252.6	253.4	251.9
65°	275.9	255.0	238.7	231.7	229.4	228.6	225.5	223.2	221.6	223.2	221.6
67.5°	234.8	220.9	208.5	201.5	198.4	197.6	195.3	193.7	194.5	192.2	193.7
70°	196.1	182.1	174.4	170.5	168.9	166.6	166.6	166.6	166.6	165.1	164.3
72.5°	165.1	151.1	145.7	143.4	141.8	141.0	138.7	139.5	138.7	137.9	141.0
75°	131.0	122.4	117.0	114.7	116.2	113.9	111.6	113.1	110.8	111.6	114.7
77.5°	99.2	95.3	92.2	90.7	89.1	87.6	87.6	86.0	86.0	86.0	86.0
80°	72.1	71.3	65.9	65.1	65.1	63.5	63.5	63.5	63.5	62.8	63.5
82.5°	48.0	47.3	45.7	44.9	43.4	44.2	44.2	42.6	42.6	41.8	42.6
85°	27.9	27.9	26.3	25.6	24.8	25.6	24.0	23.2	24.0	23.2	24.0
87.5°	13.2	11.6	12.4	11.6	10.1	10.8	9.3	10.1	9.3	8.5	10.1
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	1009.0	1006.6	1003.5	1003.5	999.7	999.7	993.5	982.6	973.3	970.2	971.8
5°	1095.0	1095.7	1091.1	1087.2	1080.3	1074.8	1064.8	1045.4	1039.2	1026.8	1018.3
7.5°	1193.4	1190.3	1181.8	1175.6	1174.0	1161.6	1139.9	1116.7	1098.1	1085.7	1067.9
10°	1304.2	1291.8	1279.4	1275.5	1266.2	1245.3	1220.5	1194.9	1169.4	1142.2	1112.0
12.5°	1397.2	1373.2	1372.4	1363.1	1345.3	1333.7	1304.2	1267.8	1223.6	1193.4	1159.3
15°	1497.2	1474.7	1456.1	1439.0	1430.5	1396.4	1371.6	1325.9	1273.2	1240.7	1217.4
17.5°	1568.5	1558.4	1526.6	1518.9	1507.2	1467.7	1428.2	1383.2	1337.5	1291.8	1229.0
20°	1625.8	1619.6	1598.7	1587.8	1569.2	1538.2	1490.2	1438.3	1385.6	1320.5	1261.6
22.5°	1650.6	1642.8	1625.8	1616.5	1604.9	1578.5	1537.5	1478.6	1409.6	1351.5	1288.7
25°	1601.8	1615.7	1611.1	1607.2	1602.6	1587.1	1556.1	1504.1	1436.7	1370.8	1292.6
27.5°	1491.7	1515.8	1539.0	1542.1	1549.9	1556.1	1543.7	1506.5	1449.9	1380.1	1294.1
30°	1343.7	1354.6	1401.8	1415.8	1426.6	1466.2	1489.4	1480.1	1436.7	1373.9	1294.9
32.5°	1153.9	1182.5	1230.6	1263.9	1293.4	1337.5	1398.0	1422.0	1406.5	1355.4	1277.1
35°	974.1	1008.2	1064.0	1106.6	1136.0	1198.8	1270.1	1322.0	1341.4	1315.8	1246.1
37.5°	826.8	867.9	917.5	933.8	967.9	1045.4	1143.8	1215.9	1263.1	1265.5	1211.2
40°	716.0	737.0	776.5	801.3	834.6	899.7	995.8	1091.1	1162.4	1186.4	1157.7
42.5°	622.3	638.5	668.0	698.2	728.4	778.0	866.4	955.5	1051.6	1099.6	1098.8
45°	547.9	564.9	585.1	609.9	630.8	684.3	754.0	845.4	928.4	1002.8	1021.4
47.5°	482.8	497.5	522.3	533.2	547.1	597.5	657.9	743.2	829.2	914.4	936.1
50°	434.7	447.1	464.2	471.2	486.7	523.9	573.4	642.4	737.7	816.0	856.3
52.5°	391.3	400.6	413.8	419.2	430.1	458.0	502.9	557.2	636.2	716.8	773.4
55°	354.1	360.3	369.6	375.8	383.6	408.4	441.7	490.5	558.7	628.5	683.5
57.5°	319.3	323.9	333.2	336.3	342.5	361.9	385.1	426.2	489.0	551.0	604.4
60°	286.7	289.8	295.2	302.2	306.9	320.0	341.7	375.8	426.2	482.8	526.2
62.5°	255.7	260.4	261.9	265.0	268.9	281.3	298.3	323.1	367.3	413.8	459.5
65°	224.0	227.8	230.9	231.7	235.6	244.9	260.4	282.1	310.7	351.0	393.7
67.5°	194.5	196.8	198.4	201.5	205.4	210.0	222.4	238.7	265.0	297.6	331.7
70°	167.4	167.4	169.7	170.5	175.1	180.6	186.0	201.5	224.7	251.1	274.3
72.5°	137.9	141.8	141.0	144.9	144.1	148.0	155.0	165.1	182.1	203.0	225.5
75°	112.4	114.7	114.7	114.7	116.2	119.3	123.2	132.5	145.7	162.7	175.9
77.5°	87.6	89.1	89.1	89.1	89.9	93.0	96.9	103.1	112.4	122.4	130.2
80°	62.8	64.3	64.3	65.9	65.9	66.6	70.5	73.6	78.3	86.0	93.8
82.5°	42.6	43.4	44.9	44.9	44.2	45.7	46.5	49.6	54.2	55.8	61.2
85°	23.2	24.0	24.8	24.8	25.6	27.1	26.3	29.4	29.4	32.5	34.1
87.5°	9.3	10.8	10.8	10.1	10.8	10.8	10.8	12.4	13.2	13.9	13.2
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



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CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	964.8	961.7	959.4	959.4	952.4	945.4	941.5	940.0	938.4	932.2	923.7
5°	1004.3	994.2	987.3	980.3	968.7	956.3	943.9	936.9	926.8	912.9	902.8
7.5°	1048.5	1024.5	1016.7	1008.2	984.9	964.0	947.0	932.2	916.0	898.1	880.3
10°	1085.7	1060.1	1043.1	1028.3	998.1	970.2	944.6	922.9	902.0	878.8	857.1
12.5°	1121.3	1084.9	1067.1	1045.4	1013.6	973.3	940.0	912.9	881.9	857.8	831.5
15°	1170.9	1109.7	1080.3	1066.3	1023.7	976.4	936.1	895.8	870.2	833.8	810.6
17.5°	1178.7	1129.1	1109.7	1074.1	1022.9	969.4	922.9	882.6	843.9	811.4	781.1
20°	1205.8	1140.7	1109.7	1087.2	1019.8	965.6	914.4	862.5	825.3	790.4	756.3
22.5°	1222.8	1149.2	1116.7	1081.0	1016.7	951.6	891.2	846.2	800.5	764.9	737.7
25°	1218.2	1144.6	1108.1	1074.8	996.6	931.5	877.2	819.9	777.3	738.5	702.9
27.5°	1215.9	1132.9	1094.2	1057.0	983.4	915.2	847.0	800.5	753.2	708.3	681.9
30°	1209.7	1118.2	1073.3	1033.0	956.3	885.0	826.8	772.6	725.3	684.3	649.4
32.5°	1188.7	1093.4	1050.0	1006.6	926.8	855.5	796.6	746.3	699.0	656.4	623.0
35°	1160.8	1064.0	1016.7	971.0	891.2	819.1	764.9	712.2	668.0	626.9	595.1
37.5°	1132.9	1029.9	985.7	933.0	859.4	784.2	728.4	681.2	640.1	597.5	562.6
40°	1092.6	989.6	940.8	895.8	809.8	739.3	688.1	645.5	605.2	564.9	535.5
42.5°	1037.6	945.4	895.0	845.4	764.9	695.1	645.5	607.5	569.6	536.3	503.7
45°	981.8	891.9	847.0	802.8	715.3	649.4	603.7	568.8	537.0	500.6	474.3
47.5°	914.4	838.5	793.5	750.1	667.2	601.3	559.5	527.0	497.5	467.3	442.5
50°	845.4	779.6	738.5	693.6	614.5	554.8	513.8	486.7	462.6	434.0	413.8
52.5°	771.1	713.7	678.8	635.4	565.7	510.7	468.8	441.7	421.6	400.6	382.8
55°	692.0	650.2	613.0	578.1	512.2	462.6	425.4	401.4	387.5	368.1	352.6
57.5°	620.7	580.4	557.9	518.4	461.1	412.3	382.8	362.7	346.4	334.8	322.4
60°	546.3	513.8	489.0	460.3	409.9	368.9	337.9	326.2	309.2	300.7	295.2
62.5°	475.0	451.8	428.5	406.8	361.9	323.1	299.9	285.2	275.1	266.6	261.9
65°	407.6	385.9	369.6	350.3	313.1	282.1	260.4	248.8	238.7	236.4	230.9
67.5°	341.7	332.4	314.6	299.1	267.4	243.3	227.1	212.3	206.9	204.6	199.9
70°	285.9	275.1	261.2	248.0	224.0	203.0	188.3	182.9	175.1	174.4	168.9
72.5°	235.6	222.4	212.3	202.3	184.4	165.8	158.1	150.3	146.5	143.4	141.0
75°	186.8	177.5	170.5	162.0	146.5	134.1	123.2	120.1	117.8	117.0	115.5
77.5°	139.5	133.3	130.2	121.7	110.8	100.0	95.3	90.7	90.7	89.1	89.9
80°	99.2	95.3	91.4	86.8	77.5	72.8	69.0	65.9	64.3	63.5	64.3
82.5°	62.8	60.4	59.7	56.6	50.4	48.0	44.9	42.6	42.6	42.6	42.6
85°	34.9	34.9	34.9	30.2	27.9	25.6	24.0	23.2	23.2	23.2	24.0
87.5°	14.7	14.7	12.4	12.4	11.6	10.1	9.3	9.3	10.1	10.1	10.8
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	921.4	918.3	919.8	912.1	905.1	895.0	886.5	885.0	883.4	888.1	885.0
5°	895.0	891.2	887.3	878.0	864.0	855.5	843.1	842.3	837.7	830.7	832.3
7.5°	866.4	864.0	858.6	843.9	831.5	816.8	806.7	798.2	794.3	788.1	785.8
10°	843.1	834.6	829.9	813.7	799.0	783.5	770.3	764.1	757.1	751.7	747.8
12.5°	811.4	809.0	795.9	782.7	770.3	752.5	742.4	724.6	715.3	719.9	718.4
15°	790.4	779.6	776.5	757.9	737.0	725.3	706.7	695.1	691.2	684.3	675.7
17.5°	762.5	755.6	744.7	727.7	703.6	687.4	674.2	663.3	658.7	649.4	642.4
20°	736.2	724.6	716.0	700.5	677.3	656.4	640.1	633.1	621.5	613.7	609.9
22.5°	712.2	703.6	691.2	668.0	647.8	627.7	608.3	598.2	587.4	582.7	576.5
25°	682.7	668.8	660.2	634.7	613.0	596.7	578.9	565.7	559.5	551.7	550.2
27.5°	654.0	640.9	630.8	608.3	582.0	561.0	550.2	540.9	530.1	530.1	526.2
30°	625.4	616.1	600.6	578.9	554.1	533.9	521.5	513.0	509.1	506.0	505.3
32.5°	596.7	584.3	575.0	545.5	527.0	508.4	499.1	492.1	487.4	486.7	487.4
35°	567.2	553.3	544.0	517.7	499.1	482.0	478.1	471.9	469.6	468.8	472.7
37.5°	536.3	525.4	513.8	492.1	471.2	461.1	453.3	451.0	450.2	454.9	456.4
40°	507.6	498.3	487.4	464.2	448.7	437.8	434.0	431.6	434.7	439.4	441.7
42.5°	480.5	467.3	458.8	437.8	423.9	417.7	413.0	413.0	416.1	421.6	425.4
45°	451.8	441.7	433.2	414.6	402.2	395.2	394.4	395.2	399.1	403.0	407.6
47.5°	423.9	413.8	404.5	389.0	378.2	374.3	373.5	374.3	380.5	385.9	391.3
50°	398.3	387.5	378.9	364.2	355.7	351.0	351.8	355.7	360.3	368.1	375.1
52.5°	368.1	360.3	352.6	339.4	331.7	328.6	330.9	334.0	342.5	347.9	356.5
55°	338.6	331.7	325.5	315.4	309.2	306.9	308.4	313.1	320.0	329.3	339.4
57.5°	311.5	303.8	297.6	290.6	283.6	284.4	285.2	291.4	299.9	308.4	320.0
60°	281.3	276.6	271.2	262.7	259.6	259.6	261.9	268.9	276.6	290.6	300.7
62.5°	254.2	248.0	244.1	238.7	234.0	234.8	240.2	246.4	255.7	267.4	280.5
65°	226.3	219.3	216.2	211.6	210.0	210.8	214.7	224.0	234.0	244.1	256.5
67.5°	195.3	193.0	189.9	185.2	186.8	187.5	191.4	199.2	210.0	220.1	234.0
70°	168.9	164.3	163.5	159.6	159.6	162.0	169.7	175.1	185.2	196.1	210.8
72.5°	141.0	137.2	137.2	134.1	136.4	138.7	142.6	150.3	159.6	170.5	182.9
75°	112.4	110.8	112.4	110.8	110.8	114.7	119.3	125.5	135.6	147.2	157.3
77.5°	86.8	86.8	86.0	88.3	88.3	90.7	96.9	103.1	110.8	120.1	131.0
80°	63.5	63.5	63.5	65.9	68.2	68.2	72.1	79.8	86.8	93.0	103.1
82.5°	43.4	43.4	43.4	44.9	48.0	48.0	52.7	57.3	65.1	70.5	75.2
85°	26.3	26.3	25.6	27.1	27.9	30.2	34.1	37.2	41.1	45.7	50.4
87.5°	11.6	11.6	12.4	13.2	13.9	15.5	17.0	18.6	22.5	24.0	26.3
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	882.6	881.9	878.0	879.5	874.9	876.4	878.8	879.5	882.6	880.3	879.5
5°	828.4	826.8	824.5	822.2	821.4	824.5	819.1	820.6	822.2	824.5	827.6
7.5°	784.2	783.5	781.1	777.3	775.7	774.2	774.9	780.4	779.6	778.8	784.2
10°	743.9	744.7	740.1	739.3	734.6	733.9	734.6	736.2	738.5	741.6	742.4
12.5°	702.1	712.2	703.6	700.5	693.6	697.4	699.0	692.0	695.9	698.2	709.8
15°	675.7	671.1	665.7	665.7	662.6	661.0	657.1	662.6	665.7	670.3	668.8
17.5°	639.3	631.6	628.5	625.4	626.1	629.2	620.7	633.1	633.1	635.4	631.6
20°	607.5	601.3	597.5	595.9	593.6	592.0	591.3	594.4	599.0	600.6	604.4
22.5°	574.2	574.2	568.0	565.7	564.1	561.8	565.7	563.4	566.5	569.6	575.8
25°	546.3	546.3	544.0	540.9	538.6	537.0	539.4	538.6	540.9	544.8	546.3
27.5°	523.9	521.5	520.8	520.0	519.2	520.0	519.2	521.5	523.9	524.6	523.1
30°	504.5	502.2	502.9	502.9	503.7	502.9	502.2	504.5	505.3	503.7	504.5
32.5°	486.7	486.7	488.2	489.0	489.0	489.8	490.5	489.0	489.8	487.4	488.2
35°	471.9	473.5	475.0	475.8	476.6	475.8	477.4	476.6	475.0	473.5	472.7
37.5°	457.2	458.8	461.9	462.6	465.0	465.7	464.2	464.2	463.4	460.3	458.8
40°	441.7	443.3	447.1	449.5	451.0	453.3	451.8	451.8	448.7	445.6	443.3
42.5°	427.0	430.1	434.0	436.3	439.4	439.4	439.4	437.8	434.0	430.9	428.5
45°	412.3	413.0	418.5	422.3	425.4	425.4	425.4	423.1	420.8	414.6	411.5
47.5°	396.0	398.3	404.5	408.4	411.5	412.3	412.3	409.9	405.3	399.9	396.0
50°	378.2	382.0	389.0	394.4	398.3	399.9	397.5	396.0	390.6	384.4	379.7
52.5°	361.1	365.8	374.3	378.9	384.4	385.1	384.4	382.0	375.8	367.3	363.4
55°	344.1	347.9	357.2	365.0	369.6	371.2	369.6	365.8	358.0	349.5	345.6
57.5°	325.5	330.9	341.0	348.7	354.1	354.9	353.4	349.5	343.3	332.4	327.0
60°	306.1	313.1	323.1	330.9	337.9	338.6	337.1	331.7	323.9	313.1	308.4
62.5°	286.7	292.1	303.8	312.3	317.7	321.6	318.5	313.1	305.3	294.5	287.5
65°	264.3	272.0	282.1	289.8	296.0	296.8	295.2	290.6	282.1	270.5	265.0
67.5°	242.6	248.0	258.1	268.1	270.5	272.8	270.5	265.8	258.8	248.8	241.0
70°	216.2	220.9	233.3	240.2	243.3	245.7	244.1	239.5	233.3	224.0	217.8
72.5°	189.9	193.7	205.4	210.8	217.0	216.2	215.4	212.3	203.8	197.6	193.7
75°	162.0	166.6	174.4	181.3	183.7	183.7	183.7	181.3	175.9	165.8	162.0
77.5°	136.4	138.7	144.9	148.8	151.1	151.9	151.1	147.2	144.1	137.2	134.8
80°	104.6	110.8	115.5	116.2	119.3	119.3	119.3	117.8	114.7	107.7	106.9
82.5°	79.0	80.6	85.2	87.6	89.1	88.3	88.3	85.2	84.5	80.6	79.0
85°	53.5	55.8	55.0	58.1	58.9	57.3	57.3	58.9	55.0	55.8	53.5
87.5°	29.4	29.4	31.0	30.2	33.3	33.3	31.8	32.5	31.0	30.2	29.4
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3	935.3
2.5°	879.5	884.2	879.5	882.6	884.2	888.1	889.6	896.6	898.9	904.3	904.3
5°	826.8	829.2	829.9	833.0	836.1	843.9	849.3	859.4	871.0	872.6	879.5
7.5°	784.2	788.1	794.3	792.0	797.4	809.0	816.0	828.4	840.0	846.2	854.7
10°	746.3	750.9	753.2	755.6	765.6	775.7	786.6	795.1	810.6	819.9	826.8
12.5°	715.3	711.4	716.0	724.6	736.2	742.4	757.1	770.3	781.9	792.0	798.2
15°	675.0	678.1	682.7	697.4	700.5	716.0	721.5	736.2	757.9	767.2	774.9
17.5°	636.2	646.3	655.6	661.0	670.3	682.7	698.2	714.5	728.4	739.3	748.6
20°	605.2	615.3	620.7	624.6	633.9	650.9	665.7	685.8	703.6	712.2	724.6
22.5°	580.4	580.4	588.2	599.8	605.2	621.5	633.9	655.6	675.0	685.8	697.4
25°	549.4	554.1	560.3	570.3	578.1	591.3	609.1	627.7	648.6	657.9	672.6
27.5°	523.9	529.3	537.8	540.1	547.9	559.5	578.1	598.2	619.9	630.0	642.4
30°	504.5	507.6	510.7	515.3	522.3	532.4	547.9	565.7	592.0	599.8	615.3
32.5°	487.4	489.0	490.5	494.4	498.3	508.4	520.8	540.1	561.8	573.4	587.4
35°	471.9	470.4	471.2	473.5	477.4	481.2	494.4	510.7	530.8	544.8	555.6
37.5°	457.2	454.1	453.3	453.3	454.9	459.5	469.6	483.6	505.3	516.9	527.7
40°	440.9	437.8	436.3	435.5	434.7	437.8	445.6	459.5	476.6	487.4	499.8
42.5°	425.4	422.3	418.5	417.7	416.1	417.7	423.1	436.3	451.0	461.9	471.9
45°	409.9	404.5	399.9	396.8	397.5	395.2	399.1	409.2	426.2	433.2	443.3
47.5°	392.9	386.7	380.5	377.4	374.3	375.8	377.4	385.9	400.6	407.6	417.7
50°	376.6	368.1	361.1	357.2	354.9	353.4	354.9	363.4	374.3	380.5	389.0
52.5°	358.0	349.5	342.5	336.3	333.2	330.9	331.7	339.4	349.5	355.7	364.2
55°	341.0	330.1	320.8	313.1	310.7	310.0	309.2	314.6	323.1	329.3	336.3
57.5°	321.6	310.7	300.7	291.4	286.7	285.9	285.9	287.5	298.3	303.0	306.9
60°	302.2	290.6	279.7	271.2	264.3	261.9	261.2	264.3	269.7	274.3	279.7
62.5°	280.5	268.9	255.7	248.0	241.0	234.8	237.1	237.9	245.7	248.0	252.6
65°	259.6	246.4	235.6	223.2	215.4	211.6	210.0	211.6	217.8	218.5	221.6
67.5°	235.6	223.2	210.0	201.5	194.5	187.5	186.0	186.0	189.1	191.4	195.3
70°	212.3	199.9	185.2	175.9	168.9	162.7	160.4	159.6	162.0	163.5	167.4
72.5°	185.2	172.8	162.0	151.9	143.4	138.7	136.4	134.8	137.2	138.7	139.5
75°	156.5	146.5	135.6	125.5	120.1	115.5	112.4	110.0	111.6	111.6	111.6
77.5°	129.4	119.3	110.8	103.8	96.9	91.4	89.1	86.8	87.6	87.6	89.1
80°	100.7	93.8	86.8	80.6	74.4	69.7	68.2	65.9	64.3	63.5	63.5
82.5°	74.4	69.0	62.8	57.3	54.2	49.6	48.0	44.9	44.9	44.2	44.2
85°	49.6	46.5	40.3	36.4	34.1	31.8	30.2	28.7	26.3	26.3	25.6
87.5°	26.3	24.8	23.2	18.6	18.6	16.3	15.5	14.7	12.4	13.2	13.2
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	935.3	935.3	935.3	935.3
2.5°	909.8	917.5	924.5	935.3
5°	889.6	900.5	915.2	931.5
7.5°	866.4	883.4	902.8	925.3
10°	844.7	864.0	888.8	916.0
12.5°	822.2	845.4	872.6	902.0
15°	796.6	819.9	850.1	889.6
17.5°	773.4	801.3	833.8	875.7
20°	746.3	772.6	808.3	856.3
22.5°	722.2	752.5	792.0	833.8
25°	695.9	722.2	761.8	812.1
27.5°	669.5	702.1	740.1	788.9
30°	644.0	671.1	712.2	763.3
32.5°	616.1	648.6	686.6	734.6
35°	585.8	616.8	652.5	704.4
37.5°	558.7	588.9	625.4	671.1
40°	528.5	560.3	593.6	639.3
42.5°	499.1	527.7	561.0	602.9
45°	470.4	495.2	525.4	561.8
47.5°	440.9	461.9	489.8	522.3
50°	409.2	431.6	452.6	479.7
52.5°	379.7	399.1	416.1	438.6
55°	351.0	364.2	378.2	395.2
57.5°	320.8	330.9	341.0	358.8
60°	290.6	299.9	305.3	316.9
62.5°	261.2	265.0	272.0	279.0
65°	228.6	234.0	237.9	246.4
67.5°	199.2	201.5	205.4	210.8
70°	168.2	173.6	175.1	179.0
72.5°	141.8	144.1	145.7	146.5
75°	112.4	114.7	116.2	120.9
77.5°	88.3	87.6	90.7	91.4
80°	65.1	62.8	63.5	66.6
82.5°	42.6	43.4	42.6	42.6
85°	26.3	25.6	24.0	24.8
87.5°	11.6	11.6	10.8	10.8
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: P1001587

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-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)