

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: P1001530

Luminaire Tested: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001530
REPORT IS A COMBINATION OF REPORTS P996149 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D365UB2750-4F0-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

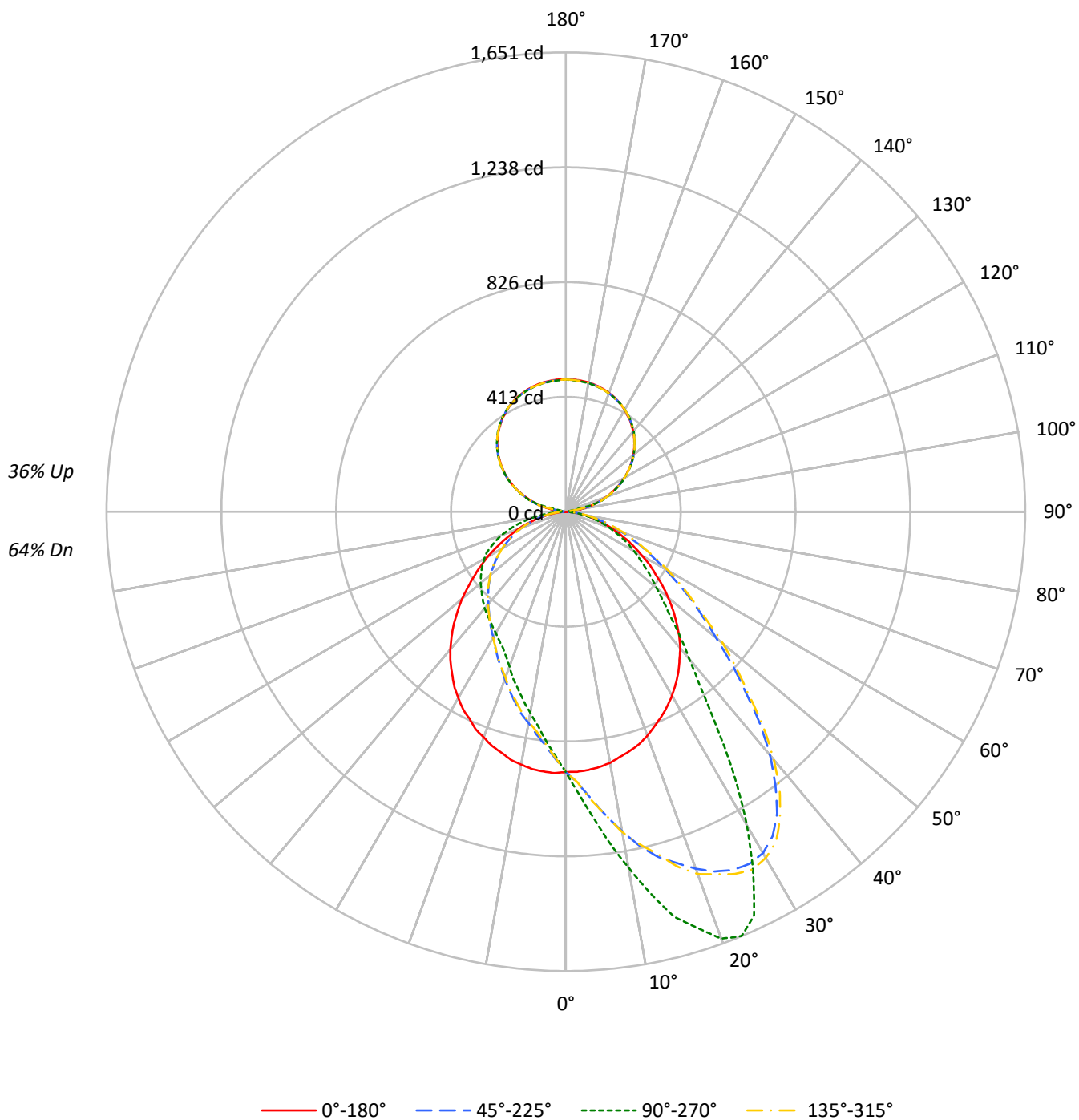
Lumens per Lamp: N/A
Luminaire Lumens: 4053.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64		
1	101	97	93	89	95	91	88	85	80	78	75	70	68	67	61	60	59	54		
2	92	85	79	74	86	80	75	70	71	67	63	62	59	56	54	52	50	46		
3	84	75	68	62	79	71	64	59	63	58	53	55	51	48	48	45	43	39		
4	77	67	59	53	72	63	56	50	56	50	46	49	45	41	43	40	37	34		
5	71	60	51	45	67	56	49	43	50	44	40	45	40	36	39	35	32	30		
6	66	54	45	40	62	51	43	38	45	39	35	40	35	32	36	32	29	26		
7	61	49	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23		
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21		
9	53	40	33	28	50	38	32	27	35	29	25	31	26	23	28	24	21	19		
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19	17		

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	2.2
10°-20°	281.0	6.9
20°-30°	446.4	11.0
30°-40°	496.0	12.2
40°-50°	451.0	11.1
50°-60°	368.6	9.1
60°-70°	263.1	6.5
70°-80°	144.8	3.6
80°-90°	40.1	1.0
90°-100°	15.8	0.4
100°-110°	103.9	2.6
110°-120°	198.4	4.9
120°-130°	251.9	6.2
130°-140°	269.5	6.6
140°-150°	252.0	6.2
150°-160°	203.2	5.0
160°-170°	131.1	3.2
170°-180°	45.2	1.1
0°-30°	818.4	20.2
0°-40°	1314.4	32.4
0°-60°	2134.0	52.7
0°-90°	2582.0	63.7
90°-120°	318.1	7.8
90°-150°	1091.6	26.9
90°-180°	1471.0	36.3
0°-180°	4053.0	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°	1	11	1	11	1	3
95°	20	10	20	10	20	24
105°	107	101	107	101	107	112
115°	200	201	200	201	200	197
125°	281	283	281	283	281	251
135°	348	351	348	351	348	269
145°	402	404	402	404	402	251
155°	440	440	440	440	440	203
165°	465	463	465	463	465	131
175°	475	472	475	472	475	45
180°	475	475	475	475	475	

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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°	1.1	2.0	2.8	3.7	4.6	5.0	5.3	5.9	6.6	7.2	7.8
92.5°	5.3	5.1	5.0	4.8	4.7	4.6	4.9	5.6	6.2	6.9	7.5
95°	19.6	16.9	14.2	11.5	8.8	7.5	7.5	7.6	7.7	7.7	7.8
97.5°	37.3	39.1	40.8	42.6	44.3	45.2	41.0	32.7	24.4	16.1	7.8
100°	58.3	59.7	61.1	62.6	64.0	64.7	59.2	48.3	37.4	26.5	15.6
102.5°	81.8	82.7	83.7	84.6	85.5	86.0	86.5	87.4	88.4	89.3	90.3
105°	107.0	107.5	108.0	108.5	109.0	109.2	109.4	109.8	110.1	110.5	110.9
107.5°	130.1	130.3	130.6	130.8	131.1	131.2	131.5	132.0	132.6	133.1	133.7
110°	153.6	153.8	154.1	154.3	154.6	154.7	154.9	155.4	155.9	156.3	156.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	176.4	176.9	177.3	177.8	178.3	178.5	178.6	178.7	178.9	179.0	179.2
115°	199.8	200.0	200.3	200.5	200.8	200.9	200.9	200.8	200.7	200.6	200.5
117.5°	220.8	221.1	221.4	221.7	222.0	222.2	222.3	222.6	222.8	223.1	223.3
120°	242.1	242.4	242.8	243.1	243.4	243.6	243.6	243.5	243.4	243.3	243.2
122.5°	262.1	262.3	262.4	262.6	262.7	262.8	262.9	263.0	263.2	263.3	263.5
125°	280.9	281.2	281.5	281.8	282.1	282.3	282.2	282.1	281.9	281.8	281.6
127.5°	299.0	299.1	299.2	299.3	299.4	299.4	299.6	300.0	300.4	300.8	301.2
130°	316.5	316.6	316.6	316.7	316.8	316.8	316.9	317.2	317.4	317.7	317.9
132.5°	332.5	332.7	332.8	333.0	333.1	333.2	333.4	333.7	334.0	334.3	334.6
135°	348.5	348.4	348.3	348.2	348.1	348.1	348.3	348.6	348.9	349.2	349.5
137.5°	362.7	362.7	362.7	362.7	362.7	362.7	362.9	363.3	363.7	364.1	364.5
140°	376.5	376.7	376.9	377.0	377.2	377.3	377.4	377.5	377.7	377.8	378.0
142.5°	389.0	389.3	389.6	389.9	390.2	390.4	390.4	390.5	390.6	390.7	390.8
145°	401.8	402.0	402.3	402.5	402.8	402.9	402.9	402.9	402.9	402.9	402.9
147.5°	411.7	412.2	412.7	413.2	413.7	413.9	413.9	413.8	413.7	413.6	413.5
150°	422.8	423.1	423.4	423.7	424.0	424.2	424.2	424.1	424.0	423.9	423.8
152.5°	432.0	432.2	432.5	432.7	433.0	433.1	433.0	432.9	432.7	432.6	432.4
155°	440.5	440.6	440.7	440.8	440.9	440.9	440.8	440.5	440.3	440.0	439.8
157.5°	448.0	448.0	448.0	448.0	448.0	448.0	447.8	447.5	447.2	446.9	446.6
160°	454.4	454.2	453.9	453.7	453.4	453.3	453.3	453.2	453.1	453.1	453.0
162.5°	460.1	459.8	459.5	459.2	458.9	458.7	458.7	458.6	458.5	458.4	458.3
165°	464.7	464.3	463.9	463.5	463.1	462.9	462.9	462.9	462.9	462.9	462.9
167.5°	468.6	468.2	467.8	467.5	467.1	466.9	466.9	466.8	466.7	466.6	466.5
170°	471.8	471.3	470.9	470.4	469.9	469.7	469.7	469.8	469.9	470.0	470.1
172.5°	474.0	473.5	473.0	472.5	472.0	471.8	471.8	471.9	472.0	472.1	472.2
175°	475.4	474.9	474.5	474.0	473.5	473.3	473.3	473.4	473.5	473.5	473.6
177.5°	476.5	475.9	475.4	474.8	474.3	474.0	474.1	474.2	474.4	474.5	474.7
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

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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°	8.3	8.8	9.3	9.8	10.0	10.1	10.2	10.4	10.5	10.7	10.5
92.5°	8.0	8.4	8.9	9.4	9.6	9.6	9.6	9.6	9.6	9.6	9.6
95°	8.3	8.8	9.3	9.8	10.0	10.0	10.1	10.2	10.2	10.3	10.2
97.5°	8.2	8.6	9.0	9.4	9.6	9.6	9.7	9.8	9.9	10.0	9.9
100°	14.3	12.9	11.6	10.3	9.6	9.6	9.7	9.8	9.9	10.0	9.9
102.5°	72.5	54.7	37.0	19.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3
105°	111.6	112.3	113.0	113.7	114.1	112.7	109.8	107.0	104.1	101.3	104.1
107.5°	134.1	134.5	134.9	135.3	135.5	135.7	136.0	136.3	136.6	136.9	136.6
110°	157.0	157.1	157.3	157.4	157.5	157.6	157.9	158.1	158.4	158.6	158.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	179.1	179.0	178.9	178.8	178.8	179.0	179.3	179.6	180.0	180.3	180.0
115°	200.7	200.8	201.0	201.1	201.2	201.2	201.2	201.2	201.2	201.2	201.2
117.5°	223.2	223.1	223.0	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
120°	243.4	243.5	243.7	243.8	243.9	243.8	243.7	243.5	243.4	243.2	243.4
122.5°	263.6	263.6	263.7	263.8	263.8	263.7	263.6	263.4	263.3	263.1	263.3
125°	281.8	282.1	282.3	282.6	282.7	282.7	282.8	282.9	282.9	283.0	282.9
127.5°	301.1	301.0	300.9	300.8	300.8	300.8	300.7	300.6	300.6	300.5	300.6
130°	318.0	318.0	318.1	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
132.5°	334.7	334.7	334.8	334.9	334.9	334.9	334.8	334.7	334.7	334.6	334.7
135°	349.7	349.8	350.0	350.1	350.2	350.3	350.4	350.6	350.7	350.9	350.7
137.5°	364.7	364.8	365.0	365.1	365.2	365.2	365.1	365.0	364.9	364.8	364.9
140°	378.2	378.4	378.7	378.9	379.0	379.0	379.1	379.2	379.3	379.4	379.3
142.5°	391.0	391.1	391.3	391.4	391.5	391.5	391.5	391.5	391.5	391.5	391.5
145°	403.0	403.0	403.1	403.2	403.2	403.3	403.4	403.6	403.7	403.9	403.7
147.5°	413.6	413.7	413.8	413.9	413.9	413.9	414.0	414.1	414.1	414.2	414.1
150°	423.8	423.8	423.8	423.8	423.8	423.8	423.9	424.0	424.1	424.2	424.1
152.5°	432.6	432.7	432.9	433.0	433.1	433.1	433.0	432.9	432.8	432.7	432.8
155°	440.1	440.5	440.8	441.1	441.3	441.2	440.9	440.7	440.4	440.2	440.4
157.5°	447.0	447.4	447.8	448.2	448.4	448.2	447.8	447.4	447.0	446.6	447.0
160°	453.5	453.9	454.4	454.9	455.1	454.9	454.4	453.9	453.5	453.0	453.5
162.5°	458.8	459.3	459.8	460.3	460.5	460.2	459.7	459.1	458.6	458.0	458.6
165°	463.5	464.2	464.8	465.5	465.8	465.4	464.7	464.0	463.3	462.6	463.3
167.5°	467.2	467.9	468.6	469.3	469.7	469.3	468.5	467.7	466.9	466.1	466.9
170°	470.7	471.3	472.0	472.6	472.9	472.5	471.7	470.9	470.1	469.3	470.1
172.5°	472.8	473.4	474.1	474.7	475.0	474.6	473.7	472.8	472.0	471.1	472.0
175°	474.3	475.0	475.7	476.4	476.8	476.3	475.4	474.4	473.5	472.5	473.5
177.5°	475.3	475.9	476.6	477.2	477.5	477.0	476.1	475.2	474.2	473.3	474.2
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	10.4	10.2	10.1	10.0	9.8	9.3	8.8	8.3	7.8	7.2	6.6
92.5°	9.6	9.6	9.6	9.6	9.4	8.9	8.4	8.0	7.5	6.9	6.2
95°	10.2	10.1	10.0	10.0	9.8	9.3	8.8	8.3	7.8	7.7	7.7
97.5°	9.8	9.7	9.6	9.6	9.4	9.0	8.6	8.2	7.8	16.1	24.4
100°	9.8	9.7	9.6	9.6	10.3	11.6	12.9	14.3	15.6	26.5	37.4
102.5°	10.3	10.3	10.3	10.3	19.2	37.0	54.7	72.5	90.3	89.3	88.4
105°	107.0	109.8	112.7	114.1	113.7	113.0	112.3	111.6	110.9	110.5	110.1
107.5°	136.3	136.0	135.7	135.5	135.3	134.9	134.5	134.1	133.7	133.1	132.6
110°	158.1	157.9	157.6	157.5	157.4	157.3	157.1	157.0	156.8	156.3	155.9

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	179.6	179.3	179.0	178.8	178.8	178.9	179.0	179.1	179.2	179.0	178.9
115°	201.2	201.2	201.2	201.2	201.1	201.0	200.8	200.7	200.5	200.6	200.7
117.5°	222.9	222.9	222.9	222.9	222.9	223.0	223.1	223.2	223.3	223.1	222.8
120°	243.5	243.7	243.8	243.9	243.8	243.7	243.5	243.4	243.2	243.3	243.4
122.5°	263.4	263.6	263.7	263.8	263.8	263.7	263.6	263.6	263.5	263.3	263.2
125°	282.9	282.8	282.7	282.7	282.6	282.3	282.1	281.8	281.6	281.8	281.9
127.5°	300.6	300.7	300.8	300.8	300.8	300.9	301.0	301.1	301.2	300.8	300.4
130°	318.2	318.2	318.2	318.2	318.2	318.1	318.0	318.0	317.9	317.7	317.4
132.5°	334.7	334.8	334.9	334.9	334.9	334.8	334.7	334.7	334.6	334.3	334.0
135°	350.6	350.4	350.3	350.2	350.1	350.0	349.8	349.7	349.5	349.2	348.9
137.5°	365.0	365.1	365.2	365.2	365.1	365.0	364.8	364.7	364.5	364.1	363.7
140°	379.2	379.1	379.0	379.0	378.9	378.7	378.4	378.2	378.0	377.8	377.7
142.5°	391.5	391.5	391.5	391.5	391.4	391.3	391.1	391.0	390.8	390.7	390.6
145°	403.6	403.4	403.3	403.2	403.2	403.1	403.0	403.0	402.9	402.9	402.9
147.5°	414.1	414.0	413.9	413.9	413.9	413.8	413.7	413.6	413.5	413.6	413.7
150°	424.0	423.9	423.8	423.8	423.8	423.8	423.8	423.8	423.8	423.9	424.0
152.5°	432.9	433.0	433.1	433.1	433.0	432.9	432.7	432.6	432.4	432.6	432.7
155°	440.7	440.9	441.2	441.3	441.1	440.8	440.5	440.1	439.8	440.0	440.3
157.5°	447.4	447.8	448.2	448.4	448.2	447.8	447.4	447.0	446.6	446.9	447.2
160°	453.9	454.4	454.9	455.1	454.9	454.4	453.9	453.5	453.0	453.1	453.1
162.5°	459.1	459.7	460.2	460.5	460.3	459.8	459.3	458.8	458.3	458.4	458.5
165°	464.0	464.7	465.4	465.8	465.5	464.8	464.2	463.5	462.9	462.9	462.9
167.5°	467.7	468.5	469.3	469.7	469.3	468.6	467.9	467.2	466.5	466.6	466.7
170°	470.9	471.7	472.5	472.9	472.6	472.0	471.3	470.7	470.1	470.0	469.9
172.5°	472.8	473.7	474.6	475.0	474.7	474.1	473.4	472.8	472.2	472.1	472.0
175°	474.4	475.4	476.3	476.8	476.4	475.7	475.0	474.3	473.6	473.5	473.5
177.5°	475.2	476.1	477.0	477.5	477.2	476.6	475.9	475.3	474.7	474.5	474.4
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	5.9	5.3	5.0	4.6	3.7	2.8	2.0	1.1	2.0	2.8	3.7
92.5°	5.6	4.9	4.6	4.7	4.8	5.0	5.1	5.3	5.1	5.0	4.8
95°	7.6	7.5	7.5	8.8	11.5	14.2	16.9	19.6	16.9	14.2	11.5
97.5°	32.7	41.0	45.2	44.3	42.6	40.8	39.1	37.3	39.1	40.8	42.6
100°	48.3	59.2	64.7	64.0	62.6	61.1	59.7	58.3	59.7	61.1	62.6
102.5°	87.4	86.5	86.0	85.5	84.6	83.7	82.7	81.8	82.7	83.7	84.6
105°	109.8	109.4	109.2	109.0	108.5	108.0	107.5	107.0	107.5	108.0	108.5
107.5°	132.0	131.5	131.2	131.1	130.8	130.6	130.3	130.1	130.3	130.6	130.8
110°	155.4	154.9	154.7	154.6	154.3	154.1	153.8	153.6	153.8	154.1	154.3

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	178.7	178.6	178.5	178.3	177.8	177.3	176.9	176.4	176.9	177.3	177.8
115°	200.8	200.9	200.9	200.8	200.5	200.3	200.0	199.8	200.0	200.3	200.5
117.5°	222.6	222.3	222.2	222.0	221.7	221.4	221.1	220.8	221.1	221.4	221.7
120°	243.5	243.6	243.6	243.4	243.1	242.8	242.4	242.1	242.4	242.8	243.1
122.5°	263.0	262.9	262.8	262.7	262.6	262.4	262.3	262.1	262.3	262.4	262.6
125°	282.1	282.2	282.3	282.1	281.8	281.5	281.2	280.9	281.2	281.5	281.8
127.5°	300.0	299.6	299.4	299.4	299.3	299.2	299.1	299.0	299.1	299.2	299.3
130°	317.2	316.9	316.8	316.8	316.7	316.6	316.6	316.5	316.6	316.6	316.7
132.5°	333.7	333.4	333.2	333.1	333.0	332.8	332.7	332.5	332.7	332.8	333.0
135°	348.6	348.3	348.1	348.1	348.2	348.3	348.4	348.5	348.4	348.3	348.2
137.5°	363.3	362.9	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7	362.7
140°	377.5	377.4	377.3	377.2	377.0	376.9	376.7	376.5	376.7	376.9	377.0
142.5°	390.5	390.4	390.4	390.2	389.9	389.6	389.3	389.0	389.3	389.6	389.9
145°	402.9	402.9	402.9	402.8	402.5	402.3	402.0	401.8	402.0	402.3	402.5
147.5°	413.8	413.9	413.9	413.7	413.2	412.7	412.2	411.7	412.2	412.7	413.2
150°	424.1	424.2	424.2	424.0	423.7	423.4	423.1	422.8	423.1	423.4	423.7
152.5°	432.9	433.0	433.1	433.0	432.7	432.5	432.2	432.0	432.2	432.5	432.7
155°	440.5	440.8	440.9	440.9	440.8	440.7	440.6	440.5	440.6	440.7	440.8
157.5°	447.5	447.8	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0	448.0
160°	453.2	453.3	453.3	453.4	453.7	453.9	454.2	454.4	454.2	453.9	453.7
162.5°	458.6	458.7	458.7	458.9	459.2	459.5	459.8	460.1	459.8	459.5	459.2
165°	462.9	462.9	462.9	463.1	463.5	463.9	464.3	464.7	464.3	463.9	463.5
167.5°	466.8	466.9	466.9	467.1	467.5	467.8	468.2	468.6	468.2	467.8	467.5
170°	469.8	469.7	469.7	469.9	470.4	470.9	471.3	471.8	471.3	470.9	470.4
172.5°	471.9	471.8	471.8	472.0	472.5	473.0	473.5	474.0	473.5	473.0	472.5
175°	473.4	473.3	473.3	473.5	474.0	474.5	474.9	475.4	474.9	474.5	474.0
177.5°	474.2	474.1	474.0	474.3	474.8	475.4	475.9	476.5	475.9	475.4	474.8
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	4.6	5.0	5.3	5.9	6.6	7.2	7.8	8.3	8.8	9.3	9.8
92.5°	4.7	4.6	4.9	5.6	6.2	6.9	7.5	8.0	8.4	8.9	9.4
95°	8.8	7.5	7.5	7.6	7.7	7.7	7.8	8.3	8.8	9.3	9.8
97.5°	44.3	45.2	41.0	32.7	24.4	16.1	7.8	8.2	8.6	9.0	9.4
100°	64.0	64.7	59.2	48.3	37.4	26.5	15.6	14.3	12.9	11.6	10.3
102.5°	85.5	86.0	86.5	87.4	88.4	89.3	90.3	72.5	54.7	37.0	19.2
105°	109.0	109.2	109.4	109.8	110.1	110.5	110.9	111.6	112.3	113.0	113.7
107.5°	131.1	131.2	131.5	132.0	132.6	133.1	133.7	134.1	134.5	134.9	135.3
110°	154.6	154.7	154.9	155.4	155.9	156.3	156.8	157.0	157.1	157.3	157.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	178.3	178.5	178.6	178.7	178.9	179.0	179.2	179.1	179.0	178.9	178.8
115°	200.8	200.9	200.9	200.8	200.7	200.6	200.5	200.7	200.8	201.0	201.1
117.5°	222.0	222.2	222.3	222.6	222.8	223.1	223.3	223.2	223.1	223.0	222.9
120°	243.4	243.6	243.6	243.5	243.4	243.3	243.2	243.4	243.5	243.7	243.8
122.5°	262.7	262.8	262.9	263.0	263.2	263.3	263.5	263.6	263.6	263.7	263.8
125°	282.1	282.3	282.2	282.1	281.9	281.8	281.6	281.8	282.1	282.3	282.6
127.5°	299.4	299.4	299.6	300.0	300.4	300.8	301.2	301.1	301.0	300.9	300.8
130°	316.8	316.8	316.9	317.2	317.4	317.7	317.9	318.0	318.0	318.1	318.2
132.5°	333.1	333.2	333.4	333.7	334.0	334.3	334.6	334.7	334.7	334.8	334.9
135°	348.1	348.1	348.3	348.6	348.9	349.2	349.5	349.7	349.8	350.0	350.1
137.5°	362.7	362.7	362.9	363.3	363.7	364.1	364.5	364.7	364.8	365.0	365.1
140°	377.2	377.3	377.4	377.5	377.7	377.8	378.0	378.2	378.4	378.7	378.9
142.5°	390.2	390.4	390.4	390.5	390.6	390.7	390.8	391.0	391.1	391.3	391.4
145°	402.8	402.9	402.9	402.9	402.9	402.9	402.9	403.0	403.0	403.1	403.2
147.5°	413.7	413.9	413.9	413.8	413.7	413.6	413.5	413.6	413.7	413.8	413.9
150°	424.0	424.2	424.2	424.1	424.0	423.9	423.8	423.8	423.8	423.8	423.8
152.5°	433.0	433.1	433.0	432.9	432.7	432.6	432.4	432.6	432.7	432.9	433.0
155°	440.9	440.9	440.8	440.5	440.3	440.0	439.8	440.1	440.5	440.8	441.1
157.5°	448.0	448.0	447.8	447.5	447.2	446.9	446.6	447.0	447.4	447.8	448.2
160°	453.4	453.3	453.3	453.2	453.1	453.1	453.0	453.5	453.9	454.4	454.9
162.5°	458.9	458.7	458.7	458.6	458.5	458.4	458.3	458.8	459.3	459.8	460.3
165°	463.1	462.9	462.9	462.9	462.9	462.9	462.9	463.5	464.2	464.8	465.5
167.5°	467.1	466.9	466.9	466.8	466.7	466.6	466.5	467.2	467.9	468.6	469.3
170°	469.9	469.7	469.7	469.8	469.9	470.0	470.1	470.7	471.3	472.0	472.6
172.5°	472.0	471.8	471.8	471.9	472.0	472.1	472.2	472.8	473.4	474.1	474.7
175°	473.5	473.3	473.3	473.4	473.5	473.5	473.6	474.3	475.0	475.7	476.4
177.5°	474.3	474.0	474.1	474.2	474.4	474.5	474.7	475.3	475.9	476.6	477.2
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	10.0	10.1	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	10.0
92.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
95°	10.0	10.0	10.1	10.2	10.2	10.3	10.2	10.2	10.1	10.0	10.0
97.5°	9.6	9.6	9.7	9.8	9.9	10.0	9.9	9.8	9.7	9.6	9.6
100°	9.6	9.6	9.7	9.8	9.9	10.0	9.9	9.8	9.7	9.6	9.6
102.5°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
105°	114.1	112.7	109.8	107.0	104.1	101.3	104.1	107.0	109.8	112.7	114.1
107.5°	135.5	135.7	136.0	136.3	136.6	136.9	136.6	136.3	136.0	135.7	135.5
110°	157.5	157.6	157.9	158.1	158.4	158.6	158.4	158.1	157.9	157.6	157.5

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	178.8	179.0	179.3	179.6	180.0	180.3	180.0	179.6	179.3	179.0	178.8
115°	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2	201.2
117.5°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
120°	243.9	243.8	243.7	243.5	243.4	243.2	243.4	243.5	243.7	243.8	243.9
122.5°	263.8	263.7	263.6	263.4	263.3	263.1	263.3	263.4	263.6	263.7	263.8
125°	282.7	282.7	282.8	282.9	282.9	283.0	282.9	282.9	282.8	282.7	282.7
127.5°	300.8	300.8	300.7	300.6	300.6	300.5	300.6	300.6	300.7	300.8	300.8
130°	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2	318.2
132.5°	334.9	334.9	334.8	334.7	334.7	334.6	334.7	334.7	334.8	334.9	334.9
135°	350.2	350.3	350.4	350.6	350.7	350.9	350.7	350.6	350.4	350.3	350.2
137.5°	365.2	365.2	365.1	365.0	364.9	364.8	364.9	365.0	365.1	365.2	365.2
140°	379.0	379.0	379.1	379.2	379.3	379.4	379.3	379.2	379.1	379.0	379.0
142.5°	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5	391.5
145°	403.2	403.3	403.4	403.6	403.7	403.9	403.7	403.6	403.4	403.3	403.2
147.5°	413.9	413.9	414.0	414.1	414.1	414.2	414.1	414.1	414.0	413.9	413.9
150°	423.8	423.8	423.9	424.0	424.1	424.2	424.1	424.0	423.9	423.8	423.8
152.5°	433.1	433.1	433.0	432.9	432.8	432.7	432.8	432.9	433.0	433.1	433.1
155°	441.3	441.2	440.9	440.7	440.4	440.2	440.4	440.7	440.9	441.2	441.3
157.5°	448.4	448.2	447.8	447.4	447.0	446.6	447.0	447.4	447.8	448.2	448.4
160°	455.1	454.9	454.4	453.9	453.5	453.0	453.5	453.9	454.4	454.9	455.1
162.5°	460.5	460.2	459.7	459.1	458.6	458.0	458.6	459.1	459.7	460.2	460.5
165°	465.8	465.4	464.7	464.0	463.3	462.6	463.3	464.0	464.7	465.4	465.8
167.5°	469.7	469.3	468.5	467.7	466.9	466.1	466.9	467.7	468.5	469.3	469.7
170°	472.9	472.5	471.7	470.9	470.1	469.3	470.1	470.9	471.7	472.5	472.9
172.5°	475.0	474.6	473.7	472.8	472.0	471.1	472.0	472.8	473.7	474.6	475.0
175°	476.8	476.3	475.4	474.4	473.5	472.5	473.5	474.4	475.4	476.3	476.8
177.5°	477.5	477.0	476.1	475.2	474.2	473.3	474.2	475.2	476.1	477.0	477.5
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	9.8	9.3	8.8	8.3	7.8	7.2	6.6	5.9	5.3	5.0	4.6
92.5°	9.4	8.9	8.4	8.0	7.5	6.9	6.2	5.6	4.9	4.6	4.7
95°	9.8	9.3	8.8	8.3	7.8	7.7	7.7	7.6	7.5	7.5	8.8
97.5°	9.4	9.0	8.6	8.2	7.8	16.1	24.4	32.7	41.0	45.2	44.3
100°	10.3	11.6	12.9	14.3	15.6	26.5	37.4	48.3	59.2	64.7	64.0
102.5°	19.2	37.0	54.7	72.5	90.3	89.3	88.4	87.4	86.5	86.0	85.5
105°	113.7	113.0	112.3	111.6	110.9	110.5	110.1	109.8	109.4	109.2	109.0
107.5°	135.3	134.9	134.5	134.1	133.7	133.1	132.6	132.0	131.5	131.2	131.1
110°	157.4	157.3	157.1	157.0	156.8	156.3	155.9	155.4	154.9	154.7	154.6

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	178.8	178.9	179.0	179.1	179.2	179.0	178.9	178.7	178.6	178.5	178.3
115°	201.1	201.0	200.8	200.7	200.5	200.6	200.7	200.8	200.9	200.9	200.8
117.5°	222.9	223.0	223.1	223.2	223.3	223.1	222.8	222.6	222.3	222.2	222.0
120°	243.8	243.7	243.5	243.4	243.2	243.3	243.4	243.5	243.6	243.6	243.4
122.5°	263.8	263.7	263.6	263.6	263.5	263.3	263.2	263.0	262.9	262.8	262.7
125°	282.6	282.3	282.1	281.8	281.6	281.8	281.9	282.1	282.2	282.3	282.1
127.5°	300.8	300.9	301.0	301.1	301.2	300.8	300.4	300.0	299.6	299.4	299.4
130°	318.2	318.1	318.0	318.0	317.9	317.7	317.4	317.2	316.9	316.8	316.8
132.5°	334.9	334.8	334.7	334.7	334.6	334.3	334.0	333.7	333.4	333.2	333.1
135°	350.1	350.0	349.8	349.7	349.5	349.2	348.9	348.6	348.3	348.1	348.1
137.5°	365.1	365.0	364.8	364.7	364.5	364.1	363.7	363.3	362.9	362.7	362.7
140°	378.9	378.7	378.4	378.2	378.0	377.8	377.7	377.5	377.4	377.3	377.2
142.5°	391.4	391.3	391.1	391.0	390.8	390.7	390.6	390.5	390.4	390.4	390.2
145°	403.2	403.1	403.0	403.0	402.9	402.9	402.9	402.9	402.9	402.9	402.8
147.5°	413.9	413.8	413.7	413.6	413.5	413.6	413.7	413.8	413.9	413.9	413.7
150°	423.8	423.8	423.8	423.8	423.8	423.9	424.0	424.1	424.2	424.2	424.0
152.5°	433.0	432.9	432.7	432.6	432.4	432.6	432.7	432.9	433.0	433.1	433.0
155°	441.1	440.8	440.5	440.1	439.8	440.0	440.3	440.5	440.8	440.9	440.9
157.5°	448.2	447.8	447.4	447.0	446.6	446.9	447.2	447.5	447.8	448.0	448.0
160°	454.9	454.4	453.9	453.5	453.0	453.1	453.1	453.2	453.3	453.3	453.4
162.5°	460.3	459.8	459.3	458.8	458.3	458.4	458.5	458.6	458.7	458.7	458.9
165°	465.5	464.8	464.2	463.5	462.9	462.9	462.9	462.9	462.9	462.9	463.1
167.5°	469.3	468.6	467.9	467.2	466.5	466.6	466.7	466.8	466.9	466.9	467.1
170°	472.6	472.0	471.3	470.7	470.1	470.0	469.9	469.8	469.7	469.7	469.9
172.5°	474.7	474.1	473.4	472.8	472.2	472.1	472.0	471.9	471.8	471.8	472.0
175°	476.4	475.7	475.0	474.3	473.6	473.5	473.5	473.4	473.3	473.3	473.5
177.5°	477.2	476.6	475.9	475.3	474.7	474.5	474.4	474.2	474.1	474.0	474.3
180°	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4	475.4

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-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°	3.7	2.8	2.0	1.1
92.5°	4.8	5.0	5.1	5.3
95°	11.5	14.2	16.9	19.6
97.5°	42.6	40.8	39.1	37.3
100°	62.6	61.1	59.7	58.3
102.5°	84.6	83.7	82.7	81.8
105°	108.5	108.0	107.5	107.0
107.5°	130.8	130.6	130.3	130.1
110°	154.3	154.1	153.8	153.6

TEST NUMBER: P1001530

CATALOG NUMBER: SA4XXDIP-B575D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	177.8	177.3	176.9	176.4
115°	200.5	200.3	200.0	199.8
117.5°	221.7	221.4	221.1	220.8
120°	243.1	242.8	242.4	242.1
122.5°	262.6	262.4	262.3	262.1
125°	281.8	281.5	281.2	280.9
127.5°	299.3	299.2	299.1	299.0
130°	316.7	316.6	316.6	316.5
132.5°	333.0	332.8	332.7	332.5
135°	348.2	348.3	348.4	348.5
137.5°	362.7	362.7	362.7	362.7
140°	377.0	376.9	376.7	376.5
142.5°	389.9	389.6	389.3	389.0
145°	402.5	402.3	402.0	401.8
147.5°	413.2	412.7	412.2	411.7
150°	423.7	423.4	423.1	422.8
152.5°	432.7	432.5	432.2	432.0
155°	440.8	440.7	440.6	440.5
157.5°	448.0	448.0	448.0	448.0
160°	453.7	453.9	454.2	454.4
162.5°	459.2	459.5	459.8	460.1
165°	463.5	463.9	464.3	464.7
167.5°	467.5	467.8	468.2	468.6
170°	470.4	470.9	471.3	471.8
172.5°	472.5	473.0	473.5	474.0
175°	474.0	474.5	474.9	475.4
177.5°	474.8	475.4	475.9	476.5
180°	475.4	475.4	475.4	475.4

(END OF REPORT)