

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: P1001588

Luminaire Tested: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001588
REPORT IS A COMBINATION OF REPORTS P996210 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_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

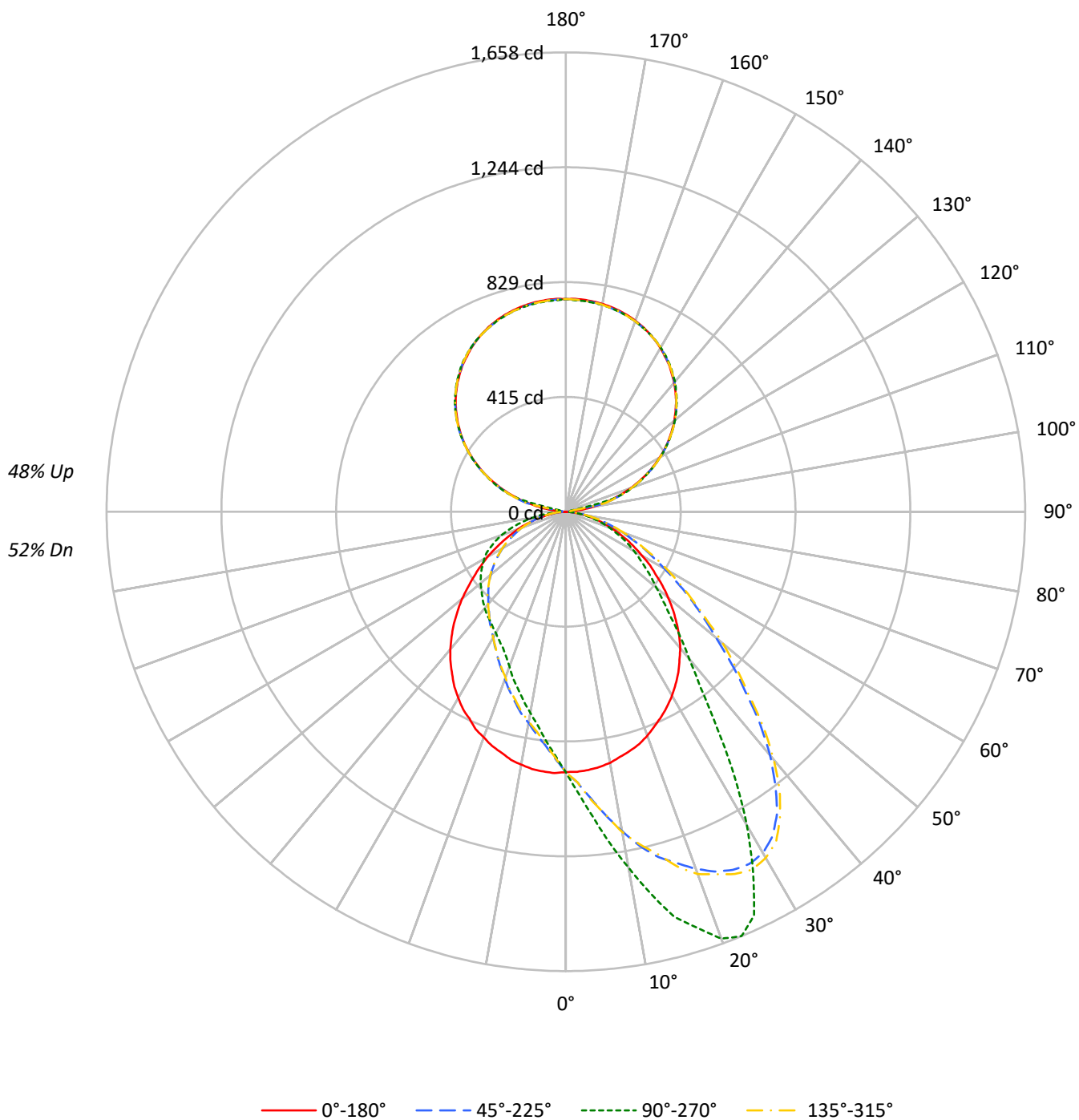
Lumens per Lamp: N/A
Luminaire Lumens: 4969.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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



TEST NUMBER: P1001588

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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
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	27	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°	7660	7660	7660	7660
5°	7640	8788	7685	6603
10°	7584	10252	7641	5793
15°	7492	11819	7544	5183
20°	7395	12816	7449	4647
25°	7254	12669	7323	4252
30°	7116	10472	7202	4048
35°	6921	7803	6997	3924
40°	6694	5878	6759	3864
45°	6348	4718	6427	3781
50°	5934	3975	6020	3743
55°	5448	3459	5533	3699
60°	4976	3046	5121	3637
65°	4533	2621	4575	3486
70°	4011	2157	4098	3210
75°	3498	1657	3475	2726
80°	2751	1088	2719	2069
85°	1812	488	1696	1207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 9904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	1.8
10°-20°	282.2	5.7
20°-30°	448.3	9.0
30°-40°	498.1	10.0
40°-50°	453.0	9.1
50°-60°	370.2	7.4
60°-70°	264.2	5.3
70°-80°	145.4	2.9
80°-90°	40.9	0.8
90°-100°	25.5	0.5
100°-110°	167.8	3.4
110°-120°	320.5	6.4
120°-130°	406.8	8.2
130°-140°	435.2	8.8
140°-150°	406.9	8.2
150°-160°	328.2	6.6
160°-170°	211.6	4.3
170°-180°	72.9	1.5
0°-30°	821.9	16.5
0°-40°	1320.0	26.6
0°-60°	2143.1	43.1
0°-90°	2593.6	52.2
90°-120°	513.8	10.3
90°-150°	1762.7	35.5
90°-180°	2375.0	47.8
0°-180°	4969.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	935	1102	941	828	935	89
15°	893	1514	900	664	893	252
25°	816	1607	823	539	816	376
35°	707	950	715	478	707	442
45°	564	533	571	427	564	435
55°	397	349	403	373	397	357
65°	248	224	250	298	248	244
75°	121	112	121	184	121	127
85°	25	23	23	58	25	29
90°	2	17	2	17	2	3
95°	32	17	32	17	32	39
105°	173	164	173	164	173	181
115°	323	325	323	325	323	318
125°	454	457	454	457	454	405
135°	563	567	563	567	563	434
145°	649	652	649	652	649	405
155°	711	711	711	711	711	328
165°	750	747	750	747	750	212
175°	768	763	768	763	768	73
180°	768	768	768	768	768	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	939.3	948.7	952.6	955.7	965.8	968.9	969.7	974.3	978.2	979.0	979.0
5°	935.4	950.2	961.9	972.8	989.1	996.1	1004.7	1014.0	1026.5	1034.3	1038.2
7.5°	929.2	951.0	968.9	987.6	1010.1	1024.2	1031.9	1056.8	1074.0	1088.0	1105.1
10°	919.9	947.9	973.6	1000.8	1032.7	1049.8	1067.0	1097.3	1121.4	1148.7	1170.5
12.5°	905.9	942.4	973.6	1011.7	1051.4	1071.6	1091.9	1144.8	1172.8	1196.9	1235.8
15°	893.4	930.0	974.3	1013.3	1062.3	1092.6	1122.2	1156.5	1200.8	1253.0	1290.3
17.5°	879.4	925.3	966.6	1021.0	1075.5	1104.3	1128.4	1181.4	1243.6	1295.0	1329.2
20°	859.9	906.6	961.1	1018.7	1083.3	1105.9	1137.8	1208.6	1264.6	1315.2	1371.2
22.5°	837.4	891.9	949.4	1004.7	1071.6	1119.1	1154.1	1216.4	1284.1	1342.4	1405.5
25°	815.6	874.7	925.3	1000.8	1071.6	1103.5	1143.2	1217.2	1291.1	1361.9	1426.5
27.5°	792.2	847.5	916.0	975.9	1056.1	1091.1	1133.9	1214.8	1293.4	1364.2	1433.5
30°	766.6	825.7	882.5	953.3	1031.2	1076.3	1116.0	1203.9	1284.1	1358.0	1422.6
32.5°	737.8	793.8	854.5	921.4	1003.1	1049.1	1098.9	1189.1	1274.7	1338.6	1388.4
35°	707.4	764.2	817.1	885.6	969.7	1015.6	1063.8	1163.5	1248.3	1300.4	1329.2
37.5°	673.9	727.6	779.8	847.5	931.5	980.6	1029.6	1126.1	1206.3	1249.8	1242.1
40°	642.0	690.3	738.5	802.4	890.3	942.4	985.2	1082.5	1152.6	1171.2	1145.6
42.5°	605.5	646.7	693.4	758.8	844.4	893.4	947.1	1035.8	1088.0	1080.2	1036.6
45°	564.2	600.8	647.5	709.0	796.1	846.7	891.9	975.9	1014.0	994.6	915.2
47.5°	524.5	560.3	598.5	659.9	744.8	787.6	833.5	909.0	930.8	889.5	810.1
50°	481.7	511.3	551.0	609.4	688.7	733.9	772.0	832.7	840.5	789.9	707.4
52.5°	440.5	465.4	503.5	561.1	635.0	670.8	708.2	761.9	755.7	703.5	624.1
55°	396.9	420.2	455.3	508.2	573.6	607.8	639.7	687.2	673.9	620.3	551.0
57.5°	360.3	376.7	410.9	459.9	513.6	551.0	578.2	615.6	595.3	541.6	477.1
60°	318.3	338.5	367.3	407.0	459.9	484.8	509.0	533.9	519.9	468.5	410.9
62.5°	280.2	295.7	320.6	358.8	400.0	422.6	448.3	463.8	449.8	402.3	354.1
65°	247.5	259.9	279.4	310.5	350.2	368.9	383.7	398.5	386.8	342.4	307.4
67.5°	211.7	222.6	238.9	263.8	297.3	310.5	324.5	334.6	321.4	291.8	257.6
70°	179.8	187.6	203.1	221.8	245.1	257.6	269.3	279.4	267.7	242.8	217.1
72.5°	147.1	153.3	167.3	180.5	201.6	210.1	218.7	226.5	222.6	199.2	178.2
75°	121.4	123.7	133.1	144.0	157.2	166.5	172.8	177.4	174.3	155.6	142.4
77.5°	91.8	94.9	101.9	110.5	122.2	127.6	131.5	136.2	132.3	117.5	108.2
80°	66.9	67.7	71.6	79.4	87.2	87.9	91.8	98.1	95.7	85.6	78.6
82.5°	42.8	45.1	46.7	51.4	56.8	58.4	60.7	62.3	61.5	55.3	52.9
85°	24.9	24.9	26.5	29.6	31.1	33.5	34.2	35.0	36.6	32.7	30.4
87.5°	10.9	11.7	11.7	12.5	14.0	14.0	14.8	15.6	16.3	15.6	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	8.4	8.1	7.9	7.6	7.5	8.0	9.0	10.1	11.1	12.1
95°	31.6	27.3	22.9	18.6	14.3	12.1	12.2	12.3	12.4	12.5	12.6
97.5°	60.3	63.1	65.9	68.7	71.5	72.9	66.2	52.8	39.4	26.0	12.6
100°	94.2	96.5	98.8	101.1	103.4	104.5	95.7	78.1	60.5	42.9	25.3
102.5°	132.1	133.6	135.1	136.6	138.1	138.9	139.7	141.2	142.7	144.3	145.8
105°	172.8	173.6	174.4	175.1	175.9	176.3	176.6	177.2	177.9	178.5	179.1
107.5°	210.1	210.5	210.9	211.3	211.7	211.9	212.3	213.2	214.1	215.0	215.9
110°	248.0	248.4	248.8	249.2	249.6	249.8	250.2	250.9	251.7	252.4	253.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	284.8	285.6	286.3	287.1	287.8	288.2	288.3	288.6	288.9	289.1	289.4
115°	322.7	323.1	323.5	323.8	324.2	324.4	324.3	324.2	324.1	323.9	323.8
117.5°	356.6	357.1	357.6	358.1	358.6	358.9	359.1	359.5	359.8	360.2	360.6
120°	391.0	391.5	392.0	392.5	393.0	393.3	393.2	393.1	393.0	392.8	392.7
122.5°	423.2	423.4	423.7	423.9	424.2	424.3	424.4	424.7	425.0	425.2	425.5
125°	453.6	454.1	454.6	455.1	455.6	455.9	455.8	455.5	455.2	455.0	454.7
127.5°	482.9	483.0	483.1	483.2	483.3	483.4	483.7	484.4	485.0	485.7	486.3
130°	511.0	511.1	511.3	511.4	511.5	511.6	511.8	512.2	512.5	512.9	513.3
132.5°	536.8	537.1	537.3	537.6	537.9	538.0	538.3	538.8	539.3	539.8	540.3
135°	562.7	562.6	562.4	562.3	562.2	562.1	562.4	562.9	563.4	563.9	564.4
137.5°	585.7	585.7	585.7	585.7	585.7	585.7	586.0	586.6	587.3	587.9	588.5
140°	608.0	608.3	608.5	608.8	609.1	609.2	609.3	609.6	609.8	610.1	610.3
142.5°	628.1	628.6	629.1	629.6	630.1	630.4	630.5	630.6	630.7	630.9	631.0
145°	648.8	649.2	649.6	649.9	650.3	650.5	650.5	650.5	650.5	650.5	650.5
147.5°	664.9	665.7	666.4	667.2	667.9	668.3	668.2	668.1	668.0	667.9	667.8
150°	682.7	683.2	683.7	684.2	684.7	685.0	684.9	684.8	684.7	684.5	684.4
152.5°	697.6	698.0	698.4	698.7	699.1	699.3	699.2	698.9	698.7	698.4	698.2
155°	711.4	711.5	711.7	711.8	711.9	712.0	711.8	711.4	711.0	710.6	710.2
157.5°	723.5	723.5	723.5	723.5	723.5	723.5	723.2	722.7	722.2	721.7	721.2
160°	733.8	733.4	733.0	732.7	732.3	732.1	732.0	731.9	731.8	731.6	731.5
162.5°	743.0	742.5	742.0	741.5	741.0	740.7	740.6	740.5	740.4	740.2	740.1
165°	750.4	749.8	749.2	748.5	747.9	747.6	747.6	747.6	747.6	747.6	747.6
167.5°	756.8	756.2	755.5	754.9	754.2	753.9	753.8	753.7	753.6	753.4	753.3
170°	761.9	761.1	760.4	759.6	758.9	758.5	758.6	758.7	758.8	758.9	759.0
172.5°	765.4	764.6	763.8	763.1	762.3	761.9	762.0	762.1	762.2	762.4	762.5
175°	767.7	766.9	766.1	765.4	764.6	764.2	764.3	764.4	764.5	764.7	764.8
177.5°	769.4	768.5	767.6	766.7	765.8	765.4	765.5	765.8	766.0	766.3	766.5
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	981.3	995.4	1001.6	1003.1	1011.7	1006.3	1008.6	1007.8	1014.0	1014.8	1014.8
5°	1052.9	1069.3	1074.7	1082.5	1094.2	1097.3	1095.0	1099.6	1108.2	1102.0	1111.3
7.5°	1128.4	1146.3	1158.8	1175.9	1179.8	1189.9	1196.1	1201.6	1203.1	1203.9	1205.5
10°	1198.5	1221.0	1238.2	1267.0	1273.2	1278.6	1305.9	1295.0	1309.0	1304.3	1305.9
12.5°	1255.3	1299.6	1313.7	1361.9	1366.6	1385.3	1383.7	1400.8	1403.9	1410.2	1403.9
15°	1330.0	1381.4	1403.9	1431.2	1446.7	1468.5	1472.4	1495.8	1505.1	1513.7	1505.1
17.5°	1398.5	1425.7	1483.3	1505.1	1515.2	1526.9	1556.5	1565.0	1579.0	1573.6	1589.1
20°	1432.7	1471.6	1532.3	1569.7	1585.3	1596.2	1621.1	1634.3	1639.7	1639.7	1641.3
22.5°	1463.1	1519.1	1564.2	1607.0	1621.1	1628.8	1643.6	1653.7	1656.1	1657.6	1659.2
25°	1490.3	1540.9	1577.5	1601.6	1607.0	1607.0	1615.6	1609.4	1599.3	1607.0	1611.7
27.5°	1490.3	1526.1	1542.5	1551.0	1551.0	1530.0	1517.6	1491.9	1470.1	1463.9	1477.9
30°	1465.4	1481.8	1459.2	1438.2	1421.8	1407.8	1358.8	1319.9	1312.1	1306.7	1327.7
32.5°	1407.8	1386.8	1342.4	1281.7	1257.6	1225.7	1187.6	1158.0	1140.1	1133.9	1129.2
35°	1305.9	1251.4	1193.8	1112.1	1095.0	1054.5	1002.4	980.6	951.0	950.2	960.3
37.5°	1194.6	1110.5	1048.3	970.5	946.3	903.5	854.5	831.9	811.7	796.1	814.8
40°	1064.6	991.5	896.5	832.7	798.5	775.9	734.7	709.7	700.4	692.6	704.3
42.5°	943.2	863.1	789.1	723.8	695.7	670.1	642.8	618.7	611.7	610.9	619.5
45°	822.6	744.0	675.5	619.5	601.6	586.0	559.5	552.5	540.9	533.1	537.0
47.5°	726.1	645.2	588.3	545.5	530.0	516.7	499.6	488.0	477.8	474.7	479.4
50°	631.1	576.7	518.3	482.5	470.8	458.4	445.1	434.3	429.6	426.5	429.6
52.5°	554.9	496.5	456.8	428.0	416.4	407.0	397.7	393.0	386.8	388.3	391.5
55°	486.4	435.0	401.6	380.6	373.6	369.7	358.0	352.5	350.2	348.6	350.2
57.5°	421.8	384.4	359.5	341.6	332.3	330.0	320.6	320.6	318.3	316.0	316.7
60°	370.4	338.5	314.4	300.4	298.8	294.9	288.7	287.9	282.5	284.8	285.6
62.5°	318.3	292.6	276.3	267.7	262.3	260.7	256.8	256.0	253.7	254.5	252.9
65°	277.1	256.0	239.7	232.7	230.4	229.6	226.5	224.1	222.6	224.1	222.6
67.5°	235.8	221.8	209.3	202.3	199.2	198.4	196.1	194.6	195.3	193.0	194.6
70°	196.9	182.9	175.1	171.2	169.7	167.3	167.3	167.3	167.3	165.8	165.0
72.5°	165.8	151.8	146.3	144.0	142.4	141.6	139.3	140.1	139.3	138.5	141.6
75°	131.5	123.0	117.5	115.2	116.7	114.4	112.1	113.6	111.3	112.1	115.2
77.5°	99.6	95.7	92.6	91.1	89.5	87.9	87.9	86.4	86.4	86.4	86.4
80°	72.4	71.6	66.1	65.4	65.4	63.8	63.8	63.8	63.8	63.0	63.8
82.5°	48.3	47.5	45.9	45.1	43.6	44.4	44.4	42.8	42.8	42.0	42.8
85°	28.0	28.0	26.5	25.7	24.9	25.7	24.1	23.3	24.1	23.3	24.1
87.5°	13.2	11.7	12.5	11.7	10.1	10.9	9.3	10.1	9.3	8.6	10.1
90°	13.4	14.2	14.9	15.7	16.1	16.2	16.5	16.7	17.0	17.2	17.0
92.5°	12.9	13.6	14.4	15.1	15.5	15.5	15.5	15.5	15.5	15.5	15.5
95°	13.4	14.2	14.9	15.7	16.1	16.2	16.3	16.4	16.6	16.7	16.6
97.5°	13.2	13.9	14.5	15.2	15.5	15.6	15.7	15.8	16.0	16.1	16.0
100°	23.1	20.9	18.8	16.6	15.5	15.6	15.7	15.8	16.0	16.1	16.0
102.5°	117.1	88.4	59.7	31.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7
105°	180.3	181.4	182.6	183.7	184.3	182.0	177.4	172.8	168.2	163.6	168.2
107.5°	216.5	217.2	217.8	218.5	218.8	219.1	219.6	220.1	220.6	221.1	220.6
110°	253.5	253.7	254.0	254.3	254.4	254.6	255.0	255.3	255.7	256.1	255.7



TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	289.3	289.1	289.0	288.9	288.8	289.1	289.6	290.1	290.6	291.1	290.6
115°	324.1	324.3	324.6	324.9	325.0	325.0	325.0	325.0	325.0	325.0	325.0
117.5°	360.5	360.3	360.2	360.1	360.0	360.0	360.0	360.0	360.0	360.0	360.0
120°	393.0	393.2	393.5	393.8	393.9	393.8	393.5	393.2	393.0	392.7	393.0
122.5°	425.6	425.7	425.8	425.9	426.0	425.9	425.6	425.4	425.1	424.9	425.1
125°	455.1	455.5	455.9	456.3	456.5	456.6	456.7	456.8	456.9	457.0	456.9
127.5°	486.2	486.0	485.9	485.8	485.7	485.6	485.5	485.4	485.3	485.2	485.3
130°	513.4	513.6	513.7	513.8	513.9	513.9	513.9	513.9	513.9	513.9	513.9
132.5°	540.4	540.6	540.7	540.8	540.9	540.8	540.7	540.6	540.4	540.3	540.4
135°	564.7	564.9	565.2	565.5	565.6	565.7	566.0	566.2	566.5	566.7	566.5
137.5°	588.8	589.0	589.3	589.6	589.7	589.6	589.5	589.4	589.2	589.1	589.2
140°	610.7	611.1	611.5	611.9	612.1	612.2	612.3	612.4	612.5	612.6	612.5
142.5°	631.3	631.5	631.8	632.1	632.2	632.2	632.2	632.2	632.2	632.2	632.2
145°	650.6	650.8	650.9	651.0	651.1	651.2	651.5	651.8	652.0	652.3	652.0
147.5°	667.9	668.0	668.1	668.2	668.3	668.4	668.5	668.6	668.8	668.9	668.8
150°	684.4	684.4	684.4	684.4	684.4	684.5	684.6	684.7	684.9	685.0	684.9
152.5°	698.4	698.7	698.9	699.2	699.3	699.2	699.1	699.0	698.9	698.8	698.9
155°	710.7	711.2	711.7	712.2	712.5	712.3	711.9	711.6	711.2	710.8	711.2
157.5°	721.8	722.4	723.1	723.7	724.0	723.7	723.1	722.4	721.8	721.2	721.8
160°	732.3	733.0	733.8	734.5	734.9	734.5	733.8	733.0	732.3	731.5	732.3
162.5°	740.9	741.6	742.4	743.1	743.5	743.1	742.2	741.3	740.4	739.5	740.4
165°	748.6	749.6	750.7	751.7	752.2	751.6	750.5	749.3	748.2	747.0	748.2
167.5°	754.5	755.6	756.8	757.9	758.5	757.9	756.6	755.3	754.0	752.7	754.0
170°	760.0	761.0	762.1	763.1	763.6	763.0	761.7	760.4	759.2	757.9	759.2
172.5°	763.5	764.5	765.6	766.6	767.1	766.4	765.0	763.6	762.2	760.8	762.2
175°	766.0	767.1	768.3	769.4	770.0	769.2	767.7	766.2	764.6	763.1	764.6
177.5°	767.5	768.5	769.6	770.6	771.1	770.3	768.8	767.3	765.7	764.2	765.7
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	1013.3	1010.9	1007.8	1007.8	1003.9	1003.9	997.7	986.8	977.5	974.3	975.9
5°	1099.6	1100.4	1095.7	1091.9	1084.9	1079.4	1069.3	1049.8	1043.6	1031.2	1022.6
7.5°	1198.5	1195.4	1186.8	1180.6	1179.0	1166.6	1144.8	1121.4	1102.8	1090.3	1072.4
10°	1309.8	1297.3	1284.9	1281.0	1271.6	1250.6	1225.7	1200.0	1174.4	1147.1	1116.8
12.5°	1403.2	1379.0	1378.2	1368.9	1351.0	1339.3	1309.8	1273.2	1228.8	1198.5	1164.2
15°	1503.5	1481.0	1462.3	1445.2	1436.6	1402.4	1377.5	1331.6	1278.6	1245.9	1222.6
17.5°	1575.1	1565.0	1533.1	1525.3	1513.7	1474.0	1434.3	1389.1	1343.2	1297.3	1234.3
20°	1632.7	1626.5	1605.5	1594.6	1575.9	1544.8	1496.5	1444.4	1391.5	1326.1	1267.0
22.5°	1657.6	1649.9	1632.7	1623.4	1611.7	1585.3	1544.0	1484.9	1415.6	1357.2	1294.2
25°	1608.6	1622.6	1617.9	1614.1	1609.4	1593.8	1562.7	1510.5	1442.8	1376.7	1298.1
27.5°	1498.1	1522.2	1545.6	1548.7	1556.5	1562.7	1550.2	1512.9	1456.1	1386.0	1299.6
30°	1349.5	1360.3	1407.8	1421.8	1432.7	1472.4	1495.8	1486.4	1442.8	1379.8	1300.4
32.5°	1158.8	1187.6	1235.8	1269.3	1298.9	1343.2	1403.9	1428.1	1412.5	1361.1	1282.5
35°	978.2	1012.5	1068.5	1111.3	1140.9	1203.9	1275.5	1327.7	1347.1	1321.4	1251.4
37.5°	830.4	871.6	921.4	937.8	972.0	1049.8	1148.7	1221.0	1268.5	1270.9	1216.4
40°	719.1	740.1	779.8	804.7	838.2	903.5	1000.0	1095.7	1167.3	1191.5	1162.7
42.5°	624.9	641.3	670.8	701.2	731.5	781.3	870.1	959.6	1056.1	1104.3	1103.5
45°	550.2	567.3	587.6	612.5	633.5	687.2	757.2	849.1	932.3	1007.0	1025.7
47.5°	484.8	499.6	524.5	535.4	549.4	600.0	660.7	746.3	832.7	918.3	940.1
50°	436.6	449.0	466.2	473.2	488.7	526.1	575.9	645.2	740.9	819.5	859.9
52.5°	393.0	402.3	415.6	421.0	431.9	459.9	505.1	559.5	638.9	719.9	776.7
55°	355.7	361.9	371.2	377.4	385.2	410.1	443.6	492.6	561.1	631.1	686.4
57.5°	320.6	325.3	334.6	337.8	344.0	363.4	386.8	428.0	491.1	553.3	607.0
60°	287.9	291.1	296.5	303.5	308.2	321.4	343.2	377.4	428.0	484.8	528.4
62.5°	256.8	261.5	263.0	266.2	270.0	282.5	299.6	324.5	368.9	415.6	461.5
65°	224.9	228.8	231.9	232.7	236.6	245.9	261.5	283.3	312.1	352.5	395.3
67.5°	195.3	197.7	199.2	202.3	206.2	210.9	223.4	239.7	266.2	298.8	333.1
70°	168.1	168.1	170.4	171.2	175.9	181.3	186.8	202.3	225.7	252.1	275.5
72.5°	138.5	142.4	141.6	145.5	144.8	148.6	155.6	165.8	182.9	203.9	226.5
75°	112.8	115.2	115.2	115.2	116.7	119.8	123.7	133.1	146.3	163.4	176.7
77.5°	87.9	89.5	89.5	89.5	90.3	93.4	97.3	103.5	112.8	123.0	130.7
80°	63.0	64.6	64.6	66.1	66.1	66.9	70.8	73.9	78.6	86.4	94.2
82.5°	42.8	43.6	45.1	45.1	44.4	45.9	46.7	49.8	54.5	56.0	61.5
85°	23.3	24.1	24.9	24.9	25.7	27.2	26.5	29.6	29.6	32.7	34.2
87.5°	9.3	10.9	10.9	10.1	10.9	10.9	10.9	12.5	13.2	14.0	13.2
90°	16.7	16.5	16.2	16.1	15.7	14.9	14.2	13.4	12.6	11.6	10.6
92.5°	15.5	15.5	15.5	15.5	15.1	14.4	13.6	12.9	12.1	11.1	10.1
95°	16.4	16.3	16.2	16.1	15.7	14.9	14.2	13.4	12.6	12.5	12.4
97.5°	15.8	15.7	15.6	15.5	15.2	14.5	13.9	13.2	12.6	26.0	39.4
100°	15.8	15.7	15.6	15.5	16.6	18.8	20.9	23.1	25.3	42.9	60.5
102.5°	16.7	16.7	16.7	16.7	31.0	59.7	88.4	117.1	145.8	144.3	142.7
105°	172.8	177.4	182.0	184.3	183.7	182.6	181.4	180.3	179.1	178.5	177.9
107.5°	220.1	219.6	219.1	218.8	218.5	217.8	217.2	216.5	215.9	215.0	214.1
110°	255.3	255.0	254.6	254.4	254.3	254.0	253.7	253.5	253.2	252.4	251.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	290.1	289.6	289.1	288.8	288.9	289.0	289.1	289.3	289.4	289.1	288.9
115°	325.0	325.0	325.0	325.0	324.9	324.6	324.3	324.1	323.8	323.9	324.1
117.5°	360.0	360.0	360.0	360.0	360.1	360.2	360.3	360.5	360.6	360.2	359.8
120°	393.2	393.5	393.8	393.9	393.8	393.5	393.2	393.0	392.7	392.8	393.0
122.5°	425.4	425.6	425.9	426.0	425.9	425.8	425.7	425.6	425.5	425.2	425.0
125°	456.8	456.7	456.6	456.5	456.3	455.9	455.5	455.1	454.7	455.0	455.2
127.5°	485.4	485.5	485.6	485.7	485.8	485.9	486.0	486.2	486.3	485.7	485.0
130°	513.9	513.9	513.9	513.9	513.8	513.7	513.6	513.4	513.3	512.9	512.5
132.5°	540.6	540.7	540.8	540.9	540.8	540.7	540.6	540.4	540.3	539.8	539.3
135°	566.2	566.0	565.7	565.6	565.5	565.2	564.9	564.7	564.4	563.9	563.4
137.5°	589.4	589.5	589.6	589.7	589.6	589.3	589.0	588.8	588.5	587.9	587.3
140°	612.4	612.3	612.2	612.1	611.9	611.5	611.1	610.7	610.3	610.1	609.8
142.5°	632.2	632.2	632.2	632.2	632.1	631.8	631.5	631.3	631.0	630.9	630.7
145°	651.8	651.5	651.2	651.1	651.0	650.9	650.8	650.6	650.5	650.5	650.5
147.5°	668.6	668.5	668.4	668.3	668.2	668.1	668.0	667.9	667.8	667.9	668.0
150°	684.7	684.6	684.5	684.4	684.4	684.4	684.4	684.4	684.4	684.5	684.7
152.5°	699.0	699.1	699.2	699.3	699.2	698.9	698.7	698.4	698.2	698.4	698.7
155°	711.6	711.9	712.3	712.5	712.2	711.7	711.2	710.7	710.2	710.6	711.0
157.5°	722.4	723.1	723.7	724.0	723.7	723.1	722.4	721.8	721.2	721.7	722.2
160°	733.0	733.8	734.5	734.9	734.5	733.8	733.0	732.3	731.5	731.6	731.8
162.5°	741.3	742.2	743.1	743.5	743.1	742.4	741.6	740.9	740.1	740.2	740.4
165°	749.3	750.5	751.6	752.2	751.7	750.7	749.6	748.6	747.6	747.6	747.6
167.5°	755.3	756.6	757.9	758.5	757.9	756.8	755.6	754.5	753.3	753.4	753.6
170°	760.4	761.7	763.0	763.6	763.1	762.1	761.0	760.0	759.0	758.9	758.8
172.5°	763.6	765.0	766.4	767.1	766.6	765.6	764.5	763.5	762.5	762.4	762.2
175°	766.2	767.7	769.2	770.0	769.4	768.3	767.1	766.0	764.8	764.7	764.5
177.5°	767.3	768.8	770.3	771.1	770.6	769.6	768.5	767.5	766.5	766.3	766.0
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	968.9	965.8	963.5	963.5	956.4	949.4	945.6	944.0	942.4	936.2	927.7
5°	1008.6	998.5	991.5	984.5	972.8	960.3	947.9	940.9	930.8	916.8	906.6
7.5°	1052.9	1028.8	1021.0	1012.5	989.1	968.1	951.0	936.2	919.9	902.0	884.1
10°	1090.3	1064.6	1047.5	1032.7	1002.4	974.3	948.7	926.9	905.9	882.5	860.7
12.5°	1126.1	1089.5	1071.6	1049.8	1017.9	977.5	944.0	916.8	885.6	861.5	835.0
15°	1175.9	1114.4	1084.9	1070.8	1028.0	980.6	940.1	899.6	874.0	837.4	814.0
17.5°	1183.7	1133.9	1114.4	1078.6	1027.3	973.6	926.9	886.4	847.5	814.8	784.5
20°	1210.9	1145.6	1114.4	1091.9	1024.2	969.7	918.3	866.2	828.8	793.8	759.6
22.5°	1228.0	1154.1	1121.4	1085.6	1021.0	955.7	895.0	849.8	803.9	768.1	740.9
25°	1223.4	1149.4	1112.9	1079.4	1000.8	935.4	881.0	823.4	780.6	741.7	705.9
27.5°	1221.0	1137.8	1098.9	1061.5	987.6	919.1	850.6	803.9	756.4	711.3	684.8
30°	1214.8	1123.0	1077.9	1037.4	960.3	888.7	830.4	775.9	728.4	687.2	652.2
32.5°	1193.8	1098.1	1054.5	1010.9	930.8	859.2	800.0	749.4	702.0	659.2	625.7
35°	1165.8	1068.5	1021.0	975.1	895.0	822.6	768.1	715.2	670.8	629.6	597.7
37.5°	1137.8	1034.3	989.9	937.0	863.1	787.6	731.5	684.1	642.8	600.0	565.0
40°	1097.3	993.8	944.8	899.6	813.3	742.4	691.1	648.3	607.8	567.3	537.8
42.5°	1042.1	949.4	898.9	849.1	768.1	698.1	648.3	610.1	572.0	538.5	505.9
45°	986.0	895.7	850.6	806.2	718.3	652.2	606.2	571.2	539.3	502.7	476.3
47.5°	918.3	842.0	796.9	753.3	670.1	603.9	561.9	529.2	499.6	469.3	444.4
50°	849.1	782.9	741.7	696.5	617.1	557.2	516.0	488.7	464.6	435.8	415.6
52.5°	774.3	716.8	681.7	638.1	568.1	512.9	470.8	443.6	423.4	402.3	384.4
55°	695.0	652.9	615.6	580.6	514.4	464.6	427.2	403.1	389.1	369.7	354.1
57.5°	623.4	582.9	560.3	520.6	463.0	414.0	384.4	364.2	347.9	336.2	323.7
60°	548.7	516.0	491.1	462.3	411.7	370.4	339.3	327.6	310.5	302.0	296.5
62.5°	477.1	453.7	430.4	408.6	363.4	324.5	301.2	286.4	276.3	267.7	263.0
65°	409.3	387.6	371.2	351.8	314.4	283.3	261.5	249.8	239.7	237.4	231.9
67.5°	343.2	333.9	316.0	300.4	268.5	244.4	228.0	213.2	207.8	205.5	200.8
70°	287.2	276.3	262.3	249.0	224.9	203.9	189.1	183.7	175.9	175.1	169.7
72.5°	236.6	223.4	213.2	203.1	185.2	166.5	158.8	151.0	147.1	144.0	141.6
75°	187.6	178.2	171.2	162.7	147.1	134.6	123.7	120.6	118.3	117.5	116.0
77.5°	140.1	133.9	130.7	122.2	111.3	100.4	95.7	91.1	91.1	89.5	90.3
80°	99.6	95.7	91.8	87.2	77.8	73.2	69.3	66.1	64.6	63.8	64.6
82.5°	63.0	60.7	59.9	56.8	50.6	48.3	45.1	42.8	42.8	42.8	42.8
85°	35.0	35.0	35.0	30.4	28.0	25.7	24.1	23.3	23.3	23.3	24.1
87.5°	14.8	14.8	12.5	12.5	11.7	10.1	9.3	9.3	10.1	10.1	10.9
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°	9.0	8.0	7.5	7.6	7.9	8.1	8.4	8.6	8.4	8.1	7.9
95°	12.3	12.2	12.1	14.3	18.6	22.9	27.3	31.6	27.3	22.9	18.6
97.5°	52.8	66.2	72.9	71.5	68.7	65.9	63.1	60.3	63.1	65.9	68.7
100°	78.1	95.7	104.5	103.4	101.1	98.8	96.5	94.2	96.5	98.8	101.1
102.5°	141.2	139.7	138.9	138.1	136.6	135.1	133.6	132.1	133.6	135.1	136.6
105°	177.2	176.6	176.3	175.9	175.1	174.4	173.6	172.8	173.6	174.4	175.1
107.5°	213.2	212.3	211.9	211.7	211.3	210.9	210.5	210.1	210.5	210.9	211.3
110°	250.9	250.2	249.8	249.6	249.2	248.8	248.4	248.0	248.4	248.8	249.2

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	288.6	288.3	288.2	287.8	287.1	286.3	285.6	284.8	285.6	286.3	287.1
115°	324.2	324.3	324.4	324.2	323.8	323.5	323.1	322.7	323.1	323.5	323.8
117.5°	359.5	359.1	358.9	358.6	358.1	357.6	357.1	356.6	357.1	357.6	358.1
120°	393.1	393.2	393.3	393.0	392.5	392.0	391.5	391.0	391.5	392.0	392.5
122.5°	424.7	424.4	424.3	424.2	423.9	423.7	423.4	423.2	423.4	423.7	423.9
125°	455.5	455.8	455.9	455.6	455.1	454.6	454.1	453.6	454.1	454.6	455.1
127.5°	484.4	483.7	483.4	483.3	483.2	483.1	483.0	482.9	483.0	483.1	483.2
130°	512.2	511.8	511.6	511.5	511.4	511.3	511.1	511.0	511.1	511.3	511.4
132.5°	538.8	538.3	538.0	537.9	537.6	537.3	537.1	536.8	537.1	537.3	537.6
135°	562.9	562.4	562.1	562.2	562.3	562.4	562.6	562.7	562.6	562.4	562.3
137.5°	586.6	586.0	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
140°	609.6	609.3	609.2	609.1	608.8	608.5	608.3	608.0	608.3	608.5	608.8
142.5°	630.6	630.5	630.4	630.1	629.6	629.1	628.6	628.1	628.6	629.1	629.6
145°	650.5	650.5	650.5	650.3	649.9	649.6	649.2	648.8	649.2	649.6	649.9
147.5°	668.1	668.2	668.3	667.9	667.2	666.4	665.7	664.9	665.7	666.4	667.2
150°	684.8	684.9	685.0	684.7	684.2	683.7	683.2	682.7	683.2	683.7	684.2
152.5°	698.9	699.2	699.3	699.1	698.7	698.4	698.0	697.6	698.0	698.4	698.7
155°	711.4	711.8	712.0	711.9	711.8	711.7	711.5	711.4	711.5	711.7	711.8
157.5°	722.7	723.2	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
160°	731.9	732.0	732.1	732.3	732.7	733.0	733.4	733.8	733.4	733.0	732.7
162.5°	740.5	740.6	740.7	741.0	741.5	742.0	742.5	743.0	742.5	742.0	741.5
165°	747.6	747.6	747.6	747.9	748.5	749.2	749.8	750.4	749.8	749.2	748.5
167.5°	753.7	753.8	753.9	754.2	754.9	755.5	756.2	756.8	756.2	755.5	754.9
170°	758.7	758.6	758.5	758.9	759.6	760.4	761.1	761.9	761.1	760.4	759.6
172.5°	762.1	762.0	761.9	762.3	763.1	763.8	764.6	765.4	764.6	763.8	763.1
175°	764.4	764.3	764.2	764.6	765.4	766.1	766.9	767.7	766.9	766.1	765.4
177.5°	765.8	765.5	765.4	765.8	766.7	767.6	768.5	769.4	768.5	767.6	766.7
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	925.3	922.2	923.8	916.0	909.0	898.9	890.3	888.7	887.2	891.9	888.7
5°	898.9	895.0	891.1	881.7	867.7	859.2	846.7	845.9	841.3	834.3	835.8
7.5°	870.1	867.7	862.3	847.5	835.0	820.3	810.1	801.6	797.7	791.5	789.1
10°	846.7	838.2	833.5	817.1	802.4	786.8	773.6	767.3	760.3	754.9	751.0
12.5°	814.8	812.5	799.2	786.0	773.6	755.7	745.5	727.6	718.3	723.0	721.4
15°	793.8	782.9	779.8	761.1	740.1	728.4	709.7	698.1	694.2	687.2	678.6
17.5°	765.8	758.8	747.9	730.8	706.6	690.3	677.1	666.2	661.5	652.2	645.2
20°	739.3	727.6	719.1	703.5	680.2	659.2	642.8	635.8	624.1	616.4	612.5
22.5°	715.2	706.6	694.2	670.8	650.6	630.4	610.9	600.8	589.9	585.2	579.0
25°	685.6	671.6	663.1	637.4	615.6	599.2	581.3	568.1	561.9	554.1	552.5
27.5°	656.8	643.6	633.5	610.9	584.5	563.4	552.5	543.2	532.3	532.3	528.4
30°	628.0	618.7	603.1	581.3	556.4	536.2	523.7	515.2	511.3	508.2	507.4
32.5°	599.2	586.8	577.4	547.9	529.2	510.5	501.2	494.2	489.5	488.7	489.5
35°	569.7	555.7	546.3	519.9	501.2	484.1	480.2	473.9	471.6	470.8	474.7
37.5°	538.5	527.6	516.0	494.2	473.2	463.0	455.3	452.9	452.2	456.8	458.4
40°	509.7	500.4	489.5	466.2	450.6	439.7	435.8	433.5	436.6	441.3	443.6
42.5°	482.5	469.3	460.7	439.7	425.7	419.5	414.8	414.8	417.9	423.4	427.2
45°	453.7	443.6	435.0	416.4	403.9	396.9	396.1	396.9	400.8	404.7	409.3
47.5°	425.7	415.6	406.2	390.7	379.8	375.9	375.1	375.9	382.1	387.6	393.0
50°	400.0	389.1	380.6	365.8	357.2	352.5	353.3	357.2	361.9	369.7	376.7
52.5°	369.7	361.9	354.1	340.9	333.1	330.0	332.3	335.4	344.0	349.4	358.0
55°	340.1	333.1	326.9	316.7	310.5	308.2	309.7	314.4	321.4	330.7	340.9
57.5°	312.8	305.1	298.8	291.8	284.8	285.6	286.4	292.6	301.2	309.7	321.4
60°	282.5	277.8	272.4	263.8	260.7	260.7	263.0	270.0	277.8	291.8	302.0
62.5°	255.3	249.0	245.1	239.7	235.0	235.8	241.3	247.5	256.8	268.5	281.7
65°	227.2	220.2	217.1	212.5	210.9	211.7	215.6	224.9	235.0	245.1	257.6
67.5°	196.1	193.8	190.7	186.0	187.6	188.3	192.2	200.0	210.9	221.0	235.0
70°	169.7	165.0	164.2	160.3	160.3	162.7	170.4	175.9	186.0	196.9	211.7
72.5°	141.6	137.7	137.7	134.6	137.0	139.3	143.2	151.0	160.3	171.2	183.7
75°	112.8	111.3	112.8	111.3	111.3	115.2	119.8	126.1	136.2	147.9	158.0
77.5°	87.2	87.2	86.4	88.7	88.7	91.1	97.3	103.5	111.3	120.6	131.5
80°	63.8	63.8	63.8	66.1	68.5	68.5	72.4	80.2	87.2	93.4	103.5
82.5°	43.6	43.6	43.6	45.1	48.3	48.3	52.9	57.6	65.4	70.8	75.5
85°	26.5	26.5	25.7	27.2	28.0	30.4	34.2	37.4	41.2	45.9	50.6
87.5°	11.7	11.7	12.5	13.2	14.0	15.6	17.1	18.7	22.6	24.1	26.5
90°	7.3	8.0	8.5	9.5	10.6	11.6	12.6	13.4	14.2	14.9	15.7
92.5°	7.6	7.5	8.0	9.0	10.1	11.1	12.1	12.9	13.6	14.4	15.1
95°	14.3	12.1	12.2	12.3	12.4	12.5	12.6	13.4	14.2	14.9	15.7
97.5°	71.5	72.9	66.2	52.8	39.4	26.0	12.6	13.2	13.9	14.5	15.2
100°	103.4	104.5	95.7	78.1	60.5	42.9	25.3	23.1	20.9	18.8	16.6
102.5°	138.1	138.9	139.7	141.2	142.7	144.3	145.8	117.1	88.4	59.7	31.0
105°	175.9	176.3	176.6	177.2	177.9	178.5	179.1	180.3	181.4	182.6	183.7
107.5°	211.7	211.9	212.3	213.2	214.1	215.0	215.9	216.5	217.2	217.8	218.5
110°	249.6	249.8	250.2	250.9	251.7	252.4	253.2	253.5	253.7	254.0	254.3

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	287.8	288.2	288.3	288.6	288.9	289.1	289.4	289.3	289.1	289.0	288.9
115°	324.2	324.4	324.3	324.2	324.1	323.9	323.8	324.1	324.3	324.6	324.9
117.5°	358.6	358.9	359.1	359.5	359.8	360.2	360.6	360.5	360.3	360.2	360.1
120°	393.0	393.3	393.2	393.1	393.0	392.8	392.7	393.0	393.2	393.5	393.8
122.5°	424.2	424.3	424.4	424.7	425.0	425.2	425.5	425.6	425.7	425.8	425.9
125°	455.6	455.9	455.8	455.5	455.2	455.0	454.7	455.1	455.5	455.9	456.3
127.5°	483.3	483.4	483.7	484.4	485.0	485.7	486.3	486.2	486.0	485.9	485.8
130°	511.5	511.6	511.8	512.2	512.5	512.9	513.3	513.4	513.6	513.7	513.8
132.5°	537.9	538.0	538.3	538.8	539.3	539.8	540.3	540.4	540.6	540.7	540.8
135°	562.2	562.1	562.4	562.9	563.4	563.9	564.4	564.7	564.9	565.2	565.5
137.5°	585.7	585.7	586.0	586.6	587.3	587.9	588.5	588.8	589.0	589.3	589.6
140°	609.1	609.2	609.3	609.6	609.8	610.1	610.3	610.7	611.1	611.5	611.9
142.5°	630.1	630.4	630.5	630.6	630.7	630.9	631.0	631.3	631.5	631.8	632.1
145°	650.3	650.5	650.5	650.5	650.5	650.5	650.5	650.6	650.8	650.9	651.0
147.5°	667.9	668.3	668.2	668.1	668.0	667.9	667.8	667.9	668.0	668.1	668.2
150°	684.7	685.0	684.9	684.8	684.7	684.5	684.4	684.4	684.4	684.4	684.4
152.5°	699.1	699.3	699.2	698.9	698.7	698.4	698.2	698.4	698.7	698.9	699.2
155°	711.9	712.0	711.8	711.4	711.0	710.6	710.2	710.7	711.2	711.7	712.2
157.5°	723.5	723.5	723.2	722.7	722.2	721.7	721.2	721.8	722.4	723.1	723.7
160°	732.3	732.1	732.0	731.9	731.8	731.6	731.5	732.3	733.0	733.8	734.5
162.5°	741.0	740.7	740.6	740.5	740.4	740.2	740.1	740.9	741.6	742.4	743.1
165°	747.9	747.6	747.6	747.6	747.6	747.6	747.6	748.6	749.6	750.7	751.7
167.5°	754.2	753.9	753.8	753.7	753.6	753.4	753.3	754.5	755.6	756.8	757.9
170°	758.9	758.5	758.6	758.7	758.8	758.9	759.0	760.0	761.0	762.1	763.1
172.5°	762.3	761.9	762.0	762.1	762.2	762.4	762.5	763.5	764.5	765.6	766.6
175°	764.6	764.2	764.3	764.4	764.5	764.7	764.8	766.0	767.1	768.3	769.4
177.5°	765.8	765.4	765.5	765.8	766.0	766.3	766.5	767.5	768.5	769.6	770.6
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	886.4	885.6	881.7	883.3	878.6	880.2	882.5	883.3	886.4	884.1	883.3
5°	831.9	830.4	828.0	825.7	824.9	828.0	822.6	824.1	825.7	828.0	831.2
7.5°	787.6	786.8	784.5	780.6	779.0	777.5	778.2	783.7	782.9	782.1	787.6
10°	747.1	747.9	743.2	742.4	737.8	737.0	737.8	739.3	741.7	744.8	745.5
12.5°	705.1	715.2	706.6	703.5	696.5	700.4	702.0	695.0	698.9	701.2	712.9
15°	678.6	673.9	668.5	668.5	665.4	663.8	659.9	665.4	668.5	673.2	671.6
17.5°	642.0	634.3	631.1	628.0	628.8	631.9	623.4	635.8	635.8	638.1	634.3
20°	610.1	603.9	600.0	598.5	596.1	594.6	593.8	596.9	601.6	603.1	607.0
22.5°	576.7	576.7	570.4	568.1	566.6	564.2	568.1	565.8	568.9	572.0	578.2
25°	548.7	548.7	546.3	543.2	540.9	539.3	541.6	540.9	543.2	547.1	548.7
27.5°	526.1	523.7	523.0	522.2	521.4	522.2	521.4	523.7	526.1	526.9	525.3
30°	506.6	504.3	505.1	505.1	505.9	505.1	504.3	506.6	507.4	505.9	506.6
32.5°	488.7	488.7	490.3	491.1	491.1	491.8	492.6	491.1	491.8	489.5	490.3
35°	473.9	475.5	477.1	477.8	478.6	477.8	479.4	478.6	477.1	475.5	474.7
37.5°	459.2	460.7	463.8	464.6	466.9	467.7	466.2	466.2	465.4	462.3	460.7
40°	443.6	445.1	449.0	451.4	452.9	455.3	453.7	453.7	450.6	447.5	445.1
42.5°	428.8	431.9	435.8	438.1	441.3	441.3	441.3	439.7	435.8	432.7	430.4
45°	414.0	414.8	420.2	424.1	427.2	427.2	427.2	424.9	422.6	416.4	413.2
47.5°	397.7	400.0	406.2	410.1	413.2	414.0	414.0	411.7	407.0	401.6	397.7
50°	379.8	383.7	390.7	396.1	400.0	401.6	399.2	397.7	392.2	386.0	381.3
52.5°	362.7	367.3	375.9	380.6	386.0	386.8	386.0	383.7	377.4	368.9	365.0
55°	345.5	349.4	358.8	366.5	371.2	372.8	371.2	367.3	359.5	351.0	347.1
57.5°	326.9	332.3	342.4	350.2	355.7	356.4	354.9	351.0	344.8	333.9	328.4
60°	307.4	314.4	324.5	332.3	339.3	340.1	338.5	333.1	325.3	314.4	309.7
62.5°	287.9	293.4	305.1	313.6	319.1	323.0	319.9	314.4	306.6	295.7	288.7
65°	265.4	273.2	283.3	291.1	297.3	298.1	296.5	291.8	283.3	271.6	266.2
67.5°	243.6	249.0	259.2	269.3	271.6	273.9	271.6	266.9	259.9	249.8	242.0
70°	217.1	221.8	234.2	241.3	244.4	246.7	245.1	240.5	234.2	224.9	218.7
72.5°	190.7	194.6	206.2	211.7	217.9	217.1	216.3	213.2	204.7	198.4	194.6
75°	162.7	167.3	175.1	182.1	184.4	184.4	184.4	182.1	176.7	166.5	162.7
77.5°	137.0	139.3	145.5	149.4	151.8	152.5	151.8	147.9	144.8	137.7	135.4
80°	105.1	111.3	116.0	116.7	119.8	119.8	119.8	118.3	115.2	108.2	107.4
82.5°	79.4	80.9	85.6	87.9	89.5	88.7	88.7	85.6	84.8	80.9	79.4
85°	53.7	56.0	55.3	58.4	59.1	57.6	57.6	59.1	55.3	56.0	53.7
87.5°	29.6	29.6	31.1	30.4	33.5	33.5	31.9	32.7	31.1	30.4	29.6
90°	16.1	16.2	16.5	16.7	17.0	17.2	17.0	16.7	16.5	16.2	16.1
92.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
95°	16.1	16.2	16.3	16.4	16.6	16.7	16.6	16.4	16.3	16.2	16.1
97.5°	15.5	15.6	15.7	15.8	16.0	16.1	16.0	15.8	15.7	15.6	15.5
100°	15.5	15.6	15.7	15.8	16.0	16.1	16.0	15.8	15.7	15.6	15.5
102.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
105°	184.3	182.0	177.4	172.8	168.2	163.6	168.2	172.8	177.4	182.0	184.3
107.5°	218.8	219.1	219.6	220.1	220.6	221.1	220.6	220.1	219.6	219.1	218.8
110°	254.4	254.6	255.0	255.3	255.7	256.1	255.7	255.3	255.0	254.6	254.4

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	288.8	289.1	289.6	290.1	290.6	291.1	290.6	290.1	289.6	289.1	288.8
115°	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
117.5°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
120°	393.9	393.8	393.5	393.2	393.0	392.7	393.0	393.2	393.5	393.8	393.9
122.5°	426.0	425.9	425.6	425.4	425.1	424.9	425.1	425.4	425.6	425.9	426.0
125°	456.5	456.6	456.7	456.8	456.9	457.0	456.9	456.8	456.7	456.6	456.5
127.5°	485.7	485.6	485.5	485.4	485.3	485.2	485.3	485.4	485.5	485.6	485.7
130°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9
132.5°	540.9	540.8	540.7	540.6	540.4	540.3	540.4	540.6	540.7	540.8	540.9
135°	565.6	565.7	566.0	566.2	566.5	566.7	566.5	566.2	566.0	565.7	565.6
137.5°	589.7	589.6	589.5	589.4	589.2	589.1	589.2	589.4	589.5	589.6	589.7
140°	612.1	612.2	612.3	612.4	612.5	612.6	612.5	612.4	612.3	612.2	612.1
142.5°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
145°	651.1	651.2	651.5	651.8	652.0	652.3	652.0	651.8	651.5	651.2	651.1
147.5°	668.3	668.4	668.5	668.6	668.8	668.9	668.8	668.6	668.5	668.4	668.3
150°	684.4	684.5	684.6	684.7	684.9	685.0	684.9	684.7	684.6	684.5	684.4
152.5°	699.3	699.2	699.1	699.0	698.9	698.8	698.9	699.0	699.1	699.2	699.3
155°	712.5	712.3	711.9	711.6	711.2	710.8	711.2	711.6	711.9	712.3	712.5
157.5°	724.0	723.7	723.1	722.4	721.8	721.2	721.8	722.4	723.1	723.7	724.0
160°	734.9	734.5	733.8	733.0	732.3	731.5	732.3	733.0	733.8	734.5	734.9
162.5°	743.5	743.1	742.2	741.3	740.4	739.5	740.4	741.3	742.2	743.1	743.5
165°	752.2	751.6	750.5	749.3	748.2	747.0	748.2	749.3	750.5	751.6	752.2
167.5°	758.5	757.9	756.6	755.3	754.0	752.7	754.0	755.3	756.6	757.9	758.5
170°	763.6	763.0	761.7	760.4	759.2	757.9	759.2	760.4	761.7	763.0	763.6
172.5°	767.1	766.4	765.0	763.6	762.2	760.8	762.2	763.6	765.0	766.4	767.1
175°	770.0	769.2	767.7	766.2	764.6	763.1	764.6	766.2	767.7	769.2	770.0
177.5°	771.1	770.3	768.8	767.3	765.7	764.2	765.7	767.3	768.8	770.3	771.1
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3	939.3
2.5°	883.3	888.0	883.3	886.4	888.0	891.9	893.4	900.4	902.7	908.2	908.2
5°	830.4	832.7	833.5	836.6	839.7	847.5	852.9	863.1	874.7	876.3	883.3
7.5°	787.6	791.5	797.7	795.4	800.8	812.5	819.5	831.9	843.6	849.8	858.4
10°	749.4	754.1	756.4	758.8	768.9	779.0	789.9	798.5	814.0	823.4	830.4
12.5°	718.3	714.4	719.1	727.6	739.3	745.5	760.3	773.6	785.2	795.4	801.6
15°	677.8	681.0	685.6	700.4	703.5	719.1	724.5	739.3	761.1	770.4	778.2
17.5°	638.9	649.0	658.4	663.8	673.2	685.6	701.2	717.5	731.5	742.4	751.8
20°	607.8	617.9	623.4	627.3	636.6	653.7	668.5	688.7	706.6	715.2	727.6
22.5°	582.9	582.9	590.7	602.4	607.8	624.1	636.6	658.4	677.8	688.7	700.4
25°	551.8	556.4	562.7	572.8	580.6	593.8	611.7	630.4	651.4	660.7	675.5
27.5°	526.1	531.5	540.1	542.4	550.2	561.9	580.6	600.8	622.6	632.7	645.2
30°	506.6	509.7	512.9	517.5	524.5	534.6	550.2	568.1	594.6	602.4	617.9
32.5°	489.5	491.1	492.6	496.5	500.4	510.5	523.0	542.4	564.2	575.9	589.9
35°	473.9	472.4	473.2	475.5	479.4	483.3	496.5	512.9	533.1	547.1	558.0
37.5°	459.2	456.0	455.3	455.3	456.8	461.5	471.6	485.6	507.4	519.1	530.0
40°	442.8	439.7	438.1	437.4	436.6	439.7	447.5	461.5	478.6	489.5	502.0
42.5°	427.2	424.1	420.2	419.5	417.9	419.5	424.9	438.1	452.9	463.8	473.9
45°	411.7	406.2	401.6	398.5	399.2	396.9	400.8	410.9	428.0	435.0	445.1
47.5°	394.6	388.3	382.1	379.0	375.9	377.4	379.0	387.6	402.3	409.3	419.5
50°	378.2	369.7	362.7	358.8	356.4	354.9	356.4	365.0	375.9	382.1	390.7
52.5°	359.5	351.0	344.0	337.8	334.6	332.3	333.1	340.9	351.0	357.2	365.8
55°	342.4	331.5	322.2	314.4	312.1	311.3	310.5	316.0	324.5	330.7	337.8
57.5°	323.0	312.1	302.0	292.6	287.9	287.2	287.2	288.7	299.6	304.3	308.2
60°	303.5	291.8	280.9	272.4	265.4	263.0	262.3	265.4	270.8	275.5	280.9
62.5°	281.7	270.0	256.8	249.0	242.0	235.8	238.1	238.9	246.7	249.0	253.7
65°	260.7	247.5	236.6	224.1	216.3	212.5	210.9	212.5	218.7	219.5	222.6
67.5°	236.6	224.1	210.9	202.3	195.3	188.3	186.8	186.8	189.9	192.2	196.1
70°	213.2	200.8	186.0	176.7	169.7	163.4	161.1	160.3	162.7	164.2	168.1
72.5°	186.0	173.5	162.7	152.5	144.0	139.3	137.0	135.4	137.7	139.3	140.1
75°	157.2	147.1	136.2	126.1	120.6	116.0	112.8	110.5	112.1	112.1	112.1
77.5°	130.0	119.8	111.3	104.3	97.3	91.8	89.5	87.2	87.9	87.9	89.5
80°	101.2	94.2	87.2	80.9	74.7	70.0	68.5	66.1	64.6	63.8	63.8
82.5°	74.7	69.3	63.0	57.6	54.5	49.8	48.3	45.1	45.1	44.4	44.4
85°	49.8	46.7	40.5	36.6	34.2	31.9	30.4	28.8	26.5	26.5	25.7
87.5°	26.5	24.9	23.3	18.7	18.7	16.3	15.6	14.8	12.5	13.2	13.2
90°	15.7	14.9	14.2	13.4	12.6	11.6	10.6	9.5	8.5	8.0	7.3
92.5°	15.1	14.4	13.6	12.9	12.1	11.1	10.1	9.0	8.0	7.5	7.6
95°	15.7	14.9	14.2	13.4	12.6	12.5	12.4	12.3	12.2	12.1	14.3
97.5°	15.2	14.5	13.9	13.2	12.6	26.0	39.4	52.8	66.2	72.9	71.5
100°	16.6	18.8	20.9	23.1	25.3	42.9	60.5	78.1	95.7	104.5	103.4
102.5°	31.0	59.7	88.4	117.1	145.8	144.3	142.7	141.2	139.7	138.9	138.1
105°	183.7	182.6	181.4	180.3	179.1	178.5	177.9	177.2	176.6	176.3	175.9
107.5°	218.5	217.8	217.2	216.5	215.9	215.0	214.1	213.2	212.3	211.9	211.7
110°	254.3	254.0	253.7	253.5	253.2	252.4	251.7	250.9	250.2	249.8	249.6

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CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	288.9	289.0	289.1	289.3	289.4	289.1	288.9	288.6	288.3	288.2	287.8
115°	324.9	324.6	324.3	324.1	323.8	323.9	324.1	324.2	324.3	324.4	324.2
117.5°	360.1	360.2	360.3	360.5	360.6	360.2	359.8	359.5	359.1	358.9	358.6
120°	393.8	393.5	393.2	393.0	392.7	392.8	393.0	393.1	393.2	393.3	393.0
122.5°	425.9	425.8	425.7	425.6	425.5	425.2	425.0	424.7	424.4	424.3	424.2
125°	456.3	455.9	455.5	455.1	454.7	455.0	455.2	455.5	455.8	455.9	455.6
127.5°	485.8	485.9	486.0	486.2	486.3	485.7	485.0	484.4	483.7	483.4	483.3
130°	513.8	513.7	513.6	513.4	513.3	512.9	512.5	512.2	511.8	511.6	511.5
132.5°	540.8	540.7	540.6	540.4	540.3	539.8	539.3	538.8	538.3	538.0	537.9
135°	565.5	565.2	564.9	564.7	564.4	563.9	563.4	562.9	562.4	562.1	562.2
137.5°	589.6	589.3	589.0	588.8	588.5	587.9	587.3	586.6	586.0	585.7	585.7
140°	611.9	611.5	611.1	610.7	610.3	610.1	609.8	609.6	609.3	609.2	609.1
142.5°	632.1	631.8	631.5	631.3	631.0	630.9	630.7	630.6	630.5	630.4	630.1
145°	651.0	650.9	650.8	650.6	650.5	650.5	650.5	650.5	650.5	650.5	650.3
147.5°	668.2	668.1	668.0	667.9	667.8	667.9	668.0	668.1	668.2	668.3	667.9
150°	684.4	684.4	684.4	684.4	684.4	684.5	684.7	684.8	684.9	685.0	684.7
152.5°	699.2	698.9	698.7	698.4	698.2	698.4	698.7	698.9	699.2	699.3	699.1
155°	712.2	711.7	711.2	710.7	710.2	710.6	711.0	711.4	711.8	712.0	711.9
157.5°	723.7	723.1	722.4	721.8	721.2	721.7	722.2	722.7	723.2	723.5	723.5
160°	734.5	733.8	733.0	732.3	731.5	731.6	731.8	731.9	732.0	732.1	732.3
162.5°	743.1	742.4	741.6	740.9	740.1	740.2	740.4	740.5	740.6	740.7	741.0
165°	751.7	750.7	749.6	748.6	747.6	747.6	747.6	747.6	747.6	747.6	747.9
167.5°	757.9	756.8	755.6	754.5	753.3	753.4	753.6	753.7	753.8	753.9	754.2
170°	763.1	762.1	761.0	760.0	759.0	758.9	758.8	758.7	758.6	758.5	758.9
172.5°	766.6	765.6	764.5	763.5	762.5	762.4	762.2	762.1	762.0	761.9	762.3
175°	769.4	768.3	767.1	766.0	764.8	764.7	764.5	764.4	764.3	764.2	764.6
177.5°	770.6	769.6	768.5	767.5	766.5	766.3	766.0	765.8	765.5	765.4	765.8
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	939.3	939.3	939.3	939.3
2.5°	913.6	921.4	928.4	939.3
5°	893.4	904.3	919.1	935.4
7.5°	870.1	887.2	906.6	929.2
10°	848.3	867.7	892.6	919.9
12.5°	825.7	849.1	876.3	905.9
15°	800.0	823.4	853.7	893.4
17.5°	776.7	804.7	837.4	879.4
20°	749.4	775.9	811.7	859.9
22.5°	725.3	755.7	795.4	837.4
25°	698.9	725.3	765.0	815.6
27.5°	672.4	705.1	743.2	792.2
30°	646.7	673.9	715.2	766.6
32.5°	618.7	651.4	689.5	737.8
35°	588.3	619.5	655.3	707.4
37.5°	561.1	591.5	628.0	673.9
40°	530.8	562.7	596.1	642.0
42.5°	501.2	530.0	563.4	605.5
45°	472.4	497.3	527.6	564.2
47.5°	442.8	463.8	491.8	524.5
50°	410.9	433.5	454.5	481.7
52.5°	381.3	400.8	417.9	440.5
55°	352.5	365.8	379.8	396.9
57.5°	322.2	332.3	342.4	360.3
60°	291.8	301.2	306.6	318.3
62.5°	262.3	266.2	273.2	280.2
65°	229.6	235.0	238.9	247.5
67.5°	200.0	202.3	206.2	211.7
70°	168.9	174.3	175.9	179.8
72.5°	142.4	144.8	146.3	147.1
75°	112.8	115.2	116.7	121.4
77.5°	88.7	87.9	91.1	91.8
80°	65.4	63.0	63.8	66.9
82.5°	42.8	43.6	42.8	42.8
85°	26.5	25.7	24.1	24.9
87.5°	11.7	11.7	10.9	10.9
90°	5.9	4.5	3.1	1.7
92.5°	7.9	8.1	8.4	8.6
95°	18.6	22.9	27.3	31.6
97.5°	68.7	65.9	63.1	60.3
100°	101.1	98.8	96.5	94.2
102.5°	136.6	135.1	133.6	132.1
105°	175.1	174.4	173.6	172.8
107.5°	211.3	210.9	210.5	210.1
110°	249.2	248.8	248.4	248.0

TEST NUMBER: P1001588

CATALOG NUMBER: SA4XXDIP-B575D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	287.1	286.3	285.6	284.8
115°	323.8	323.5	323.1	322.7
117.5°	358.1	357.6	357.1	356.6
120°	392.5	392.0	391.5	391.0
122.5°	423.9	423.7	423.4	423.2
125°	455.1	454.6	454.1	453.6
127.5°	483.2	483.1	483.0	482.9
130°	511.4	511.3	511.1	511.0
132.5°	537.6	537.3	537.1	536.8
135°	562.3	562.4	562.6	562.7
137.5°	585.7	585.7	585.7	585.7
140°	608.8	608.5	608.3	608.0
142.5°	629.6	629.1	628.6	628.1
145°	649.9	649.6	649.2	648.8
147.5°	667.2	666.4	665.7	664.9
150°	684.2	683.7	683.2	682.7
152.5°	698.7	698.4	698.0	697.6
155°	711.8	711.7	711.5	711.4
157.5°	723.5	723.5	723.5	723.5
160°	732.7	733.0	733.4	733.8
162.5°	741.5	742.0	742.5	743.0
165°	748.5	749.2	749.8	750.4
167.5°	754.9	755.5	756.2	756.8
170°	759.6	760.4	761.1	761.9
172.5°	763.1	763.8	764.6	765.4
175°	765.4	766.1	766.9	767.7
177.5°	766.7	767.6	768.5	769.4
180°	767.7	767.7	767.7	767.7

(END OF REPORT)