

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: P1001650

Luminaire Tested: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001650
REPORT IS A COMBINATION OF REPORTS P996272 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

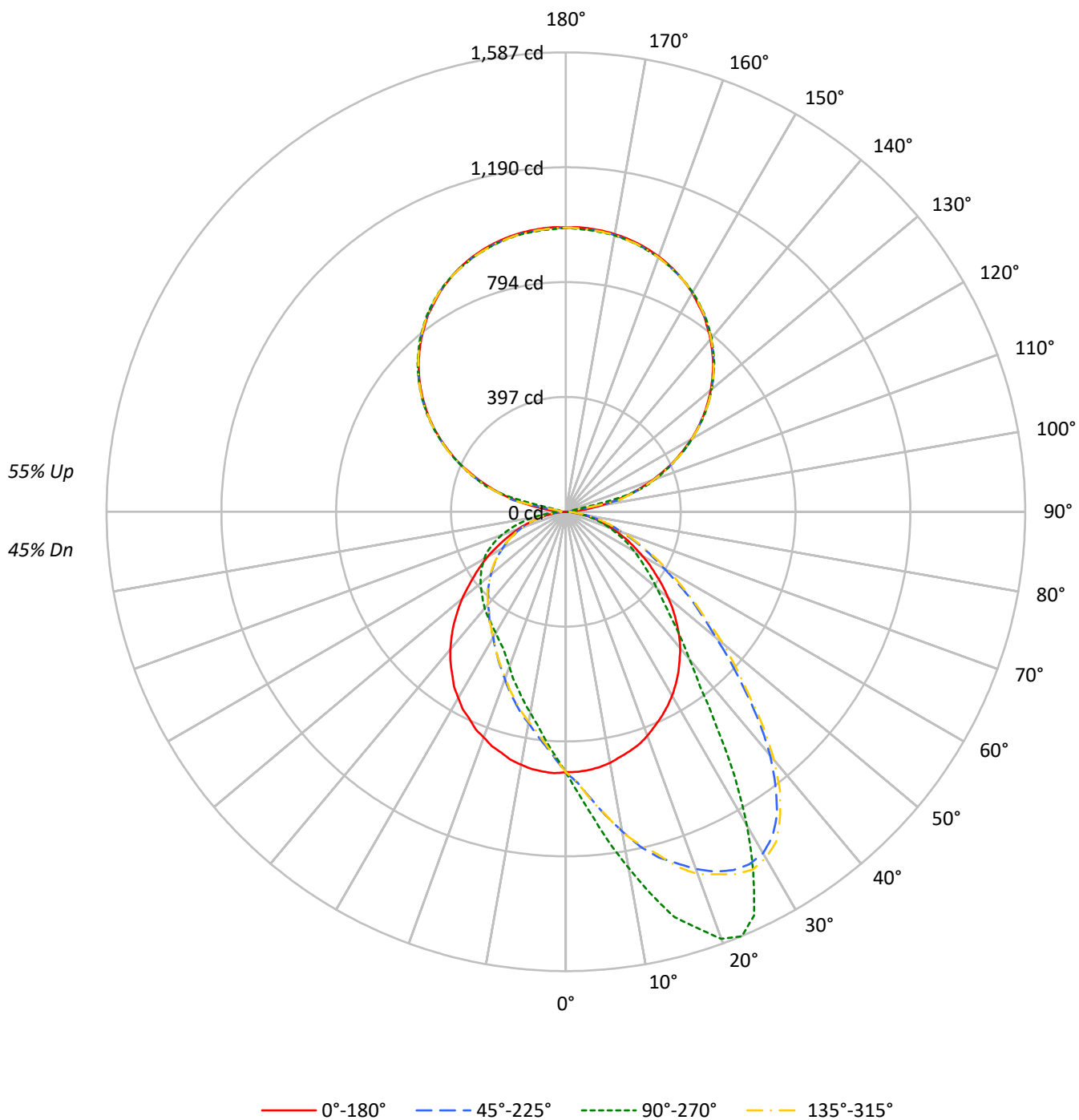
Lumens per Lamp: N/A
Luminaire Lumens: 5522.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1001650

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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45		
1	97	93	89	85	89	85	82	79	71	69	66	58	56	55	46	45	44	38		
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	41	39	37	32		
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28		
4	74	63	56	50	68	58	52	46	49	44	40	40	37	34	32	30	28	24		
5	68	56	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21		
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18		
7	58	46	38	32	53	42	35	31	36	31	27	30	26	23	24	21	19	16		
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15		
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13		
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7335	7335	7335	7335
5°	7316	8414	7359	6323
10°	7261	9817	7316	5547
15°	7174	11317	7225	4964
20°	7082	12272	7132	4450
25°	6946	12131	7012	4071
30°	6813	10027	6897	3876
35°	6627	7472	6700	3758
40°	6410	5629	6473	3699
45°	6079	4518	6154	3621
50°	5683	3806	5765	3584
55°	5218	3313	5299	3542
60°	4765	2917	4904	3483
65°	4340	2510	4381	3338
70°	3840	2065	3924	3073
75°	3352	1586	3328	2611
80°	2636	1043	2603	1983
85°	1732	470	1630	1155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.6
10°-20°	270.2	4.9
20°-30°	429.2	7.8
30°-40°	477.0	8.6
40°-50°	433.7	7.9
50°-60°	354.5	6.4
60°-70°	253.0	4.6
70°-80°	139.2	2.5
80°-90°	39.7	0.7
90°-100°	32.6	0.6
100°-110°	214.6	3.9
110°-120°	409.8	7.4
120°-130°	520.3	9.4
130°-140°	556.6	10.1
140°-150°	520.4	9.4
150°-160°	419.7	7.6
160°-170°	270.7	4.9
170°-180°	93.3	1.7
0°-30°	787.0	14.3
0°-40°	1263.9	22.9
0°-60°	2052.1	37.2
0°-90°	2484.0	45.0
90°-120°	657.0	11.9
90°-150°	2254.3	40.8
90°-180°	3038.0	55.0
0°-180°	5522.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	900	900	900	900	900	
5°	896	1055	901	793	896	85
15°	856	1449	862	636	856	241
25°	781	1539	788	516	781	360
35°	677	910	685	458	677	423
45°	540	510	547	409	540	417
55°	380	334	386	357	380	342
65°	237	215	239	285	237	234
75°	116	107	116	177	116	122
85°	24	22	22	55	24	28
90°	2	22	2	22	2	4
95°	40	21	40	21	40	50
105°	221	209	221	209	221	231
115°	413	416	413	416	413	406
125°	580	584	580	584	580	518
135°	720	725	720	725	720	554
145°	830	834	830	834	830	518
155°	910	909	910	909	910	420
165°	960	955	960	955	960	271
175°	982	976	982	976	982	93
180°	982	982	982	982	982	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	899.5	908.4	912.1	915.1	924.8	927.8	928.5	933.0	936.7	937.5	937.5
5°	895.7	909.9	921.1	931.5	947.2	953.9	962.1	971.0	982.9	990.4	994.1
7.5°	889.8	910.6	927.8	945.7	967.3	980.7	988.1	1012.0	1028.4	1041.8	1058.2
10°	880.8	907.7	932.3	958.3	988.9	1005.3	1021.7	1050.7	1073.8	1099.9	1120.8
12.5°	867.4	902.4	932.3	968.8	1006.8	1026.1	1045.5	1096.2	1123.0	1146.1	1183.4
15°	855.5	890.5	933.0	970.3	1017.2	1046.3	1074.6	1107.4	1149.9	1199.8	1235.5
17.5°	842.1	886.0	925.5	977.7	1029.9	1057.4	1080.5	1131.2	1190.8	1240.0	1272.8
20°	823.5	868.2	920.3	975.5	1037.3	1058.9	1089.5	1157.3	1211.0	1259.4	1313.1
22.5°	801.8	854.0	909.1	962.1	1026.1	1071.6	1105.1	1164.8	1229.6	1285.5	1345.8
25°	781.0	837.6	886.0	958.3	1026.1	1056.7	1094.7	1165.5	1236.3	1304.1	1366.0
27.5°	758.6	811.5	877.1	934.5	1011.2	1044.8	1085.8	1163.3	1238.5	1306.3	1372.7
30°	734.0	790.7	845.1	912.9	987.4	1030.6	1068.6	1152.8	1229.6	1300.4	1362.2
32.5°	706.5	760.1	818.2	882.3	960.6	1004.5	1052.2	1138.7	1220.6	1281.8	1329.4
35°	677.4	731.8	782.5	848.0	928.5	972.5	1018.7	1114.1	1195.3	1245.2	1272.8
37.5°	645.3	696.8	746.7	811.5	892.0	939.0	985.9	1078.3	1155.1	1196.8	1189.3
40°	614.8	661.0	707.2	768.3	852.5	902.4	943.4	1036.6	1103.6	1121.5	1096.9
42.5°	579.8	619.3	664.0	726.6	808.5	855.5	906.9	991.9	1041.8	1034.3	992.6
45°	540.3	575.3	620.0	678.9	762.3	810.8	854.0	934.5	971.0	952.4	876.4
47.5°	502.3	536.5	573.1	631.9	713.2	754.1	798.1	870.4	891.3	851.8	775.8
50°	461.3	489.6	527.6	583.5	659.5	702.7	739.2	797.4	804.8	756.4	677.4
52.5°	421.8	445.6	482.1	537.3	608.1	642.4	678.1	729.6	723.6	673.7	597.7
55°	380.1	402.4	435.9	486.6	549.2	582.0	612.6	658.0	645.3	593.9	527.6
57.5°	345.0	360.7	393.5	440.4	491.8	527.6	553.7	589.5	570.1	518.7	456.8
60°	304.8	324.2	351.7	389.7	440.4	464.3	487.4	511.2	497.8	448.6	393.5
62.5°	268.3	283.2	307.0	343.5	383.0	404.6	429.2	444.1	430.7	385.3	339.1
65°	237.0	248.9	267.5	297.3	335.3	353.2	367.4	381.5	370.4	327.9	294.4
67.5°	202.7	213.1	228.8	252.6	284.7	297.3	310.8	320.4	307.8	279.5	246.7
70°	172.1	179.6	194.5	212.4	234.7	246.7	257.8	267.5	256.4	232.5	207.9
72.5°	140.8	146.8	160.2	172.9	193.0	201.2	209.4	216.9	213.1	190.8	170.7
75°	116.3	118.5	127.4	137.9	150.5	159.5	165.4	169.9	166.9	149.0	136.4
77.5°	87.9	90.9	97.6	105.8	117.0	122.2	125.9	130.4	126.7	112.5	103.6
80°	64.1	64.8	68.6	76.0	83.5	84.2	87.9	93.9	91.7	82.0	75.3
82.5°	41.0	43.2	44.7	49.2	54.4	55.9	58.1	59.6	58.9	52.9	50.7
85°	23.8	23.8	25.3	28.3	29.8	32.0	32.8	33.5	35.0	31.3	29.1
87.5°	10.4	11.2	11.2	11.9	13.4	13.4	14.2	14.9	15.6	14.9	12.7
90°	2.2	4.0	5.8	7.6	9.4	10.3	11.0	12.3	13.6	14.9	16.2
92.5°	11.0	10.7	10.3	10.0	9.7	9.5	10.2	11.5	12.8	14.1	15.4
95°	40.4	34.8	29.3	23.7	18.2	15.4	15.5	15.7	15.8	16.0	16.2
97.5°	77.1	80.7	84.3	87.9	91.5	93.3	84.7	67.6	50.5	33.3	16.2
100°	120.4	123.3	126.3	129.2	132.1	133.6	122.3	99.8	77.3	54.8	32.3
102.5°	168.9	170.9	172.8	174.8	176.7	177.7	178.7	180.6	182.6	184.5	186.5
105°	221.0	222.0	223.0	223.9	224.9	225.4	225.8	226.6	227.5	228.3	229.1
107.5°	268.8	269.3	269.8	270.3	270.8	271.0	271.6	272.7	273.8	275.0	276.1
110°	317.2	317.7	318.2	318.7	319.2	319.4	319.9	320.9	321.8	322.8	323.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	364.2	365.2	366.2	367.1	368.1	368.6	368.8	369.1	369.4	369.8	370.1
115°	412.7	413.2	413.7	414.2	414.7	414.9	414.8	414.7	414.5	414.4	414.2
117.5°	456.0	456.6	457.3	457.9	458.6	458.9	459.2	459.7	460.2	460.7	461.2
120°	500.1	500.7	501.4	502.0	502.7	503.0	502.9	502.8	502.6	502.5	502.3
122.5°	541.2	541.5	541.9	542.2	542.5	542.7	542.9	543.2	543.5	543.8	544.1
125°	580.1	580.7	581.4	582.0	582.7	583.0	582.8	582.5	582.2	581.9	581.6
127.5°	617.6	617.8	617.9	618.1	618.2	618.3	618.7	619.5	620.4	621.2	622.0
130°	653.5	653.7	653.9	654.0	654.2	654.3	654.5	655.0	655.5	656.0	656.5
132.5°	686.6	686.9	687.3	687.6	687.9	688.1	688.4	689.1	689.7	690.4	691.0
135°	719.6	719.4	719.3	719.1	719.0	718.9	719.2	719.9	720.5	721.2	721.8
137.5°	749.0	749.0	749.0	749.0	749.0	749.0	749.4	750.2	751.1	751.9	752.7
140°	777.6	777.9	778.3	778.6	778.9	779.1	779.3	779.6	779.9	780.3	780.6
142.5°	803.3	804.0	804.6	805.3	806.0	806.3	806.4	806.5	806.7	806.8	807.0
145°	829.8	830.3	830.8	831.3	831.8	832.0	832.0	832.0	832.0	832.0	832.0
147.5°	850.3	851.3	852.3	853.2	854.2	854.7	854.6	854.5	854.3	854.2	854.0
150°	873.1	873.7	874.4	875.0	875.7	876.0	875.9	875.8	875.6	875.5	875.3
152.5°	892.2	892.7	893.2	893.7	894.2	894.4	894.2	893.9	893.6	893.2	892.9
155°	909.8	910.0	910.2	910.3	910.5	910.6	910.3	909.8	909.3	908.8	908.3
157.5°	925.2	925.2	925.2	925.2	925.2	925.2	924.9	924.2	923.6	922.9	922.3
160°	938.5	938.0	937.5	937.0	936.5	936.3	936.2	936.0	935.9	935.7	935.5
162.5°	950.2	949.6	948.9	948.3	947.6	947.3	947.2	947.0	946.9	946.7	946.5
165°	959.8	959.0	958.2	957.3	956.5	956.1	956.1	956.1	956.1	956.1	956.1
167.5°	967.8	967.0	966.2	965.4	964.6	964.2	964.1	963.9	963.8	963.6	963.4
170°	974.4	973.4	972.4	971.5	970.5	970.0	970.1	970.3	970.4	970.6	970.8
172.5°	978.8	977.8	976.8	975.9	974.9	974.4	974.5	974.7	974.8	975.0	975.2
175°	981.8	980.8	979.8	978.9	977.9	977.4	977.5	977.6	977.8	977.9	978.1
177.5°	984.0	982.8	981.7	980.5	979.4	978.8	979.0	979.3	979.6	980.0	980.3
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	939.7	953.1	959.1	960.6	968.8	963.5	965.8	965.0	971.0	971.7	971.7
5°	1008.3	1023.9	1029.1	1036.6	1047.8	1050.7	1048.5	1053.0	1061.2	1055.2	1064.2
7.5°	1080.5	1097.7	1109.6	1126.0	1129.7	1139.4	1145.4	1150.6	1152.1	1152.8	1154.3
10°	1147.6	1169.2	1185.6	1213.2	1219.2	1224.4	1250.5	1240.0	1253.4	1249.0	1250.5
12.5°	1202.0	1244.5	1257.9	1304.1	1308.6	1326.5	1325.0	1341.4	1344.3	1350.3	1344.3
15°	1273.6	1322.7	1344.3	1370.4	1385.3	1406.2	1409.9	1432.3	1441.2	1449.4	1441.2
17.5°	1339.1	1365.2	1420.4	1441.2	1450.9	1462.1	1490.4	1498.6	1512.0	1506.8	1521.7
20°	1371.9	1409.2	1467.3	1503.1	1518.0	1528.4	1552.3	1564.9	1570.1	1570.1	1571.6
22.5°	1401.0	1454.6	1497.9	1538.8	1552.3	1559.7	1573.9	1583.6	1585.8	1587.3	1588.8
25°	1427.1	1475.5	1510.5	1533.6	1538.8	1538.8	1547.0	1541.1	1531.4	1538.8	1543.3
27.5°	1427.1	1461.3	1477.0	1485.2	1485.2	1465.1	1453.1	1428.6	1407.7	1401.7	1415.1
30°	1403.2	1418.9	1397.3	1377.1	1361.5	1348.1	1301.1	1263.9	1256.4	1251.2	1271.3
32.5°	1348.1	1328.0	1285.5	1227.4	1204.3	1173.7	1137.2	1108.9	1091.7	1085.8	1081.3
35°	1250.5	1198.3	1143.1	1064.9	1048.5	1009.8	959.8	939.0	910.6	909.9	919.6
37.5°	1143.9	1063.4	1003.8	929.3	906.2	865.2	818.2	796.6	777.2	762.3	780.2
40°	1019.4	949.4	858.5	797.4	764.6	743.0	703.5	679.6	670.7	663.2	674.4
42.5°	903.2	826.4	755.6	693.0	666.2	641.6	615.5	592.4	585.7	585.0	593.2
45°	787.7	712.4	646.8	593.2	576.0	561.1	535.8	529.1	517.9	510.5	514.2
47.5°	695.3	617.8	563.4	522.4	507.5	494.8	478.4	467.2	457.6	454.6	459.0
50°	604.4	552.2	496.3	462.0	450.8	438.9	426.3	415.8	411.4	408.4	411.4
52.5°	531.3	475.4	437.4	409.9	398.7	389.7	380.8	376.3	370.4	371.9	374.8
55°	465.8	416.6	384.5	364.4	357.7	354.0	342.8	337.6	335.3	333.9	335.3
57.5°	403.9	368.1	344.3	327.1	318.2	316.0	307.0	307.0	304.8	302.6	303.3
60°	354.7	324.2	301.1	287.6	286.2	282.4	276.5	275.7	270.5	272.7	273.5
62.5°	304.8	280.2	264.5	256.4	251.1	249.6	245.9	245.2	242.9	243.7	242.2
65°	265.3	245.2	229.5	222.8	220.6	219.8	216.9	214.6	213.1	214.6	213.1
67.5°	225.8	212.4	200.5	193.8	190.8	190.0	187.8	186.3	187.0	184.8	186.3
70°	188.5	175.1	167.7	163.9	162.5	160.2	160.2	160.2	160.2	158.7	158.0
72.5°	158.7	145.3	140.1	137.9	136.4	135.6	133.4	134.1	133.4	132.6	135.6
75°	125.9	117.7	112.5	110.3	111.8	109.5	107.3	108.8	106.6	107.3	110.3
77.5°	95.4	91.7	88.7	87.2	85.7	84.2	84.2	82.7	82.7	82.7	82.7
80°	69.3	68.6	63.3	62.6	62.6	61.1	61.1	61.1	61.1	60.4	61.1
82.5°	46.2	45.5	44.0	43.2	41.7	42.5	42.5	41.0	41.0	40.2	41.0
85°	26.8	26.8	25.3	24.6	23.8	24.6	23.1	22.4	23.1	22.4	23.1
87.5°	12.7	11.2	11.9	11.2	9.7	10.4	8.9	9.7	8.9	8.2	9.7
90°	17.2	18.2	19.1	20.1	20.6	20.8	21.1	21.4	21.7	22.0	21.7
92.5°	16.4	17.4	18.3	19.3	19.8	19.8	19.8	19.8	19.8	19.8	19.8
95°	17.2	18.2	19.1	20.1	20.6	20.7	20.8	21.0	21.1	21.3	21.1
97.5°	17.0	17.8	18.6	19.4	19.8	19.9	20.1	20.2	20.4	20.6	20.4
100°	29.5	26.7	24.0	21.2	19.8	19.9	20.1	20.2	20.4	20.6	20.4
102.5°	149.8	113.1	76.4	39.7	21.3	21.3	21.3	21.3	21.3	21.3	21.3
105°	230.6	232.0	233.5	235.0	235.7	232.8	226.9	221.0	215.2	209.3	215.2
107.5°	276.9	277.7	278.6	279.4	279.8	280.1	280.8	281.4	282.1	282.7	282.1
110°	324.1	324.5	324.8	325.1	325.3	325.5	326.0	326.5	327.0	327.5	327.0

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	369.9	369.8	369.6	369.5	369.4	369.7	370.4	371.0	371.7	372.3	371.7
115°	414.5	414.8	415.1	415.4	415.6	415.6	415.6	415.6	415.6	415.6	415.6
117.5°	461.0	460.8	460.7	460.5	460.4	460.4	460.4	460.4	460.4	460.4	460.4
120°	502.6	502.9	503.2	503.5	503.7	503.5	503.2	502.9	502.6	502.3	502.6
122.5°	544.3	544.5	544.6	544.8	544.9	544.7	544.4	544.1	543.7	543.4	543.7
125°	582.1	582.6	583.1	583.6	583.8	583.9	584.0	584.2	584.3	584.5	584.3
127.5°	621.8	621.6	621.5	621.3	621.2	621.1	621.0	620.8	620.7	620.5	620.7
130°	656.7	656.8	657.0	657.1	657.2	657.2	657.2	657.2	657.2	657.2	657.2
132.5°	691.2	691.3	691.5	691.6	691.7	691.6	691.5	691.3	691.2	691.0	691.2
135°	722.1	722.5	722.8	723.1	723.3	723.5	723.8	724.1	724.5	724.8	724.5
137.5°	753.0	753.3	753.6	753.9	754.1	754.0	753.9	753.7	753.6	753.4	753.6
140°	781.1	781.6	782.1	782.6	782.8	782.9	783.0	783.2	783.3	783.5	783.3
142.5°	807.3	807.7	808.0	808.3	808.5	808.5	808.5	808.5	808.5	808.5	808.5
145°	832.2	832.3	832.5	832.6	832.7	832.9	833.2	833.5	833.9	834.2	833.9
147.5°	854.2	854.3	854.5	854.6	854.7	854.8	855.0	855.1	855.3	855.5	855.3
150°	875.3	875.3	875.3	875.3	875.3	875.4	875.5	875.7	875.8	876.0	875.8
152.5°	893.2	893.6	893.9	894.2	894.4	894.3	894.2	894.0	893.9	893.7	893.9
155°	909.0	909.6	910.3	911.0	911.3	911.1	910.6	910.1	909.6	909.1	909.6
157.5°	923.1	923.9	924.8	925.6	926.0	925.6	924.8	923.9	923.1	922.3	923.1
160°	936.5	937.5	938.4	939.4	939.9	939.4	938.4	937.5	936.5	935.5	936.5
162.5°	947.5	948.5	949.4	950.4	950.9	950.3	949.2	948.1	946.9	945.8	946.9
165°	957.4	958.7	960.0	961.3	962.0	961.3	959.8	958.3	956.8	955.3	956.8
167.5°	964.9	966.3	967.8	969.3	970.0	969.2	967.6	965.9	964.3	962.7	964.3
170°	972.1	973.4	974.7	976.0	976.6	975.8	974.2	972.5	970.9	969.3	970.9
172.5°	976.5	977.8	979.1	980.4	981.0	980.1	978.3	976.6	974.8	973.0	974.8
175°	979.6	981.0	982.5	984.0	984.7	983.7	981.8	979.8	977.9	975.9	977.9
177.5°	981.6	982.9	984.2	985.5	986.2	985.2	983.3	981.3	979.4	977.4	979.4
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	970.3	968.0	965.0	965.0	961.3	961.3	955.4	944.9	936.0	933.0	934.5
5°	1053.0	1053.7	1049.2	1045.5	1038.8	1033.6	1023.9	1005.3	999.3	987.4	979.2
7.5°	1147.6	1144.6	1136.4	1130.5	1129.0	1117.1	1096.2	1073.8	1056.0	1044.0	1026.9
10°	1254.2	1242.3	1230.3	1226.6	1217.7	1197.5	1173.7	1149.1	1124.5	1098.4	1069.4
12.5°	1343.6	1320.5	1319.8	1310.8	1293.7	1282.5	1254.2	1219.2	1176.7	1147.6	1114.8
15°	1439.7	1418.1	1400.2	1383.8	1375.6	1342.9	1319.0	1275.0	1224.4	1193.1	1170.7
17.5°	1508.3	1498.6	1468.1	1460.6	1449.4	1411.4	1373.4	1330.2	1286.2	1242.3	1181.9
20°	1563.4	1557.5	1537.4	1526.9	1509.0	1479.2	1433.0	1383.1	1332.4	1269.8	1213.2
22.5°	1587.3	1579.8	1563.4	1554.5	1543.3	1518.0	1478.5	1421.9	1355.5	1299.6	1239.3
25°	1540.3	1553.8	1549.3	1545.6	1541.1	1526.2	1496.4	1446.4	1381.6	1318.3	1243.0
27.5°	1434.5	1457.6	1480.0	1483.0	1490.4	1496.4	1484.4	1448.7	1394.3	1327.2	1244.5
30°	1292.2	1302.6	1348.1	1361.5	1371.9	1409.9	1432.3	1423.3	1381.6	1321.2	1245.2
32.5°	1109.6	1137.2	1183.4	1215.4	1243.7	1286.2	1344.3	1367.5	1352.5	1303.4	1228.1
35°	936.7	969.5	1023.2	1064.2	1092.5	1152.8	1221.4	1271.3	1289.9	1265.4	1198.3
37.5°	795.1	834.6	882.3	898.0	930.8	1005.3	1099.9	1169.2	1214.7	1216.9	1164.8
40°	688.6	708.7	746.7	770.5	802.6	865.2	957.6	1049.2	1117.8	1140.9	1113.3
42.5°	598.4	614.0	642.4	671.4	700.5	748.2	833.1	918.8	1011.2	1057.4	1056.7
45°	526.9	543.3	562.6	586.5	606.6	658.0	725.1	813.0	892.8	964.3	982.2
47.5°	464.3	478.4	502.3	512.7	526.1	574.6	632.7	714.7	797.4	879.3	900.2
50°	418.1	430.0	446.4	453.1	468.0	503.8	551.5	617.8	709.4	784.7	823.5
52.5°	376.3	385.3	397.9	403.2	413.6	440.4	483.6	535.8	611.8	689.3	743.7
55°	340.6	346.5	355.5	361.4	368.9	392.7	424.8	471.7	537.3	604.4	657.3
57.5°	307.0	311.5	320.4	323.4	329.4	348.0	370.4	409.9	470.2	529.8	581.3
60°	275.7	278.7	283.9	290.6	295.1	307.8	328.6	361.4	409.9	464.3	506.0
62.5°	245.9	250.4	251.9	254.9	258.6	270.5	286.9	310.8	353.2	397.9	441.9
65°	215.4	219.1	222.1	222.8	226.5	235.5	250.4	271.3	298.8	337.6	378.6
67.5°	187.0	189.3	190.8	193.8	197.5	202.0	213.9	229.5	254.9	286.2	318.9
70°	161.0	161.0	163.2	163.9	168.4	173.6	178.8	193.8	216.1	241.4	263.8
72.5°	132.6	136.4	135.6	139.4	138.6	142.3	149.0	158.7	175.1	195.2	216.9
75°	108.1	110.3	110.3	110.3	111.8	114.8	118.5	127.4	140.1	156.5	169.2
77.5°	84.2	85.7	85.7	85.7	86.4	89.4	93.2	99.1	108.1	117.7	125.2
80°	60.4	61.9	61.9	63.3	63.3	64.1	67.8	70.8	75.3	82.7	90.2
82.5°	41.0	41.7	43.2	43.2	42.5	44.0	44.7	47.7	52.2	53.7	58.9
85°	22.4	23.1	23.8	23.8	24.6	26.1	25.3	28.3	28.3	31.3	32.8
87.5°	8.9	10.4	10.4	9.7	10.4	10.4	10.4	11.9	12.7	13.4	12.7
90°	21.4	21.1	20.8	20.6	20.1	19.1	18.2	17.2	16.2	14.9	13.6
92.5°	19.8	19.8	19.8	19.8	19.3	18.3	17.4	16.4	15.4	14.1	12.8
95°	21.0	20.8	20.7	20.6	20.1	19.1	18.2	17.2	16.2	16.0	15.8
97.5°	20.2	20.1	19.9	19.8	19.4	18.6	17.8	17.0	16.2	33.3	50.5
100°	20.2	20.1	19.9	19.8	21.2	24.0	26.7	29.5	32.3	54.8	77.3
102.5°	21.3	21.3	21.3	21.3	39.7	76.4	113.1	149.8	186.5	184.5	182.6
105°	221.0	226.9	232.8	235.7	235.0	233.5	232.0	230.6	229.1	228.3	227.5
107.5°	281.4	280.8	280.1	279.8	279.4	278.6	277.7	276.9	276.1	275.0	273.8
110°	326.5	326.0	325.5	325.3	325.1	324.8	324.5	324.1	323.8	322.8	321.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	371.0	370.4	369.7	369.4	369.5	369.6	369.8	369.9	370.1	369.8	369.4
115°	415.6	415.6	415.6	415.6	415.4	415.1	414.8	414.5	414.2	414.4	414.5
117.5°	460.4	460.4	460.4	460.4	460.5	460.7	460.8	461.0	461.2	460.7	460.2
120°	502.9	503.2	503.5	503.7	503.5	503.2	502.9	502.6	502.3	502.5	502.6
122.5°	544.1	544.4	544.7	544.9	544.8	544.6	544.5	544.3	544.1	543.8	543.5
125°	584.2	584.0	583.9	583.8	583.6	583.1	582.6	582.1	581.6	581.9	582.2
127.5°	620.8	621.0	621.1	621.2	621.3	621.5	621.6	621.8	622.0	621.2	620.4
130°	657.2	657.2	657.2	657.2	657.1	657.0	656.8	656.7	656.5	656.0	655.5
132.5°	691.3	691.5	691.6	691.7	691.6	691.5	691.3	691.2	691.0	690.4	689.7
135°	724.1	723.8	723.5	723.3	723.1	722.8	722.5	722.1	721.8	721.2	720.5
137.5°	753.7	753.9	754.0	754.1	753.9	753.6	753.3	753.0	752.7	751.9	751.1
140°	783.2	783.0	782.9	782.8	782.6	782.1	781.6	781.1	780.6	780.3	779.9
142.5°	808.5	808.5	808.5	808.5	808.3	808.0	807.7	807.3	807.0	806.8	806.7
145°	833.5	833.2	832.9	832.7	832.6	832.5	832.3	832.2	832.0	832.0	832.0
147.5°	855.1	855.0	854.8	854.7	854.6	854.5	854.3	854.2	854.0	854.2	854.3
150°	875.7	875.5	875.4	875.3	875.3	875.3	875.3	875.3	875.3	875.5	875.6
152.5°	894.0	894.2	894.3	894.4	894.2	893.9	893.6	893.2	892.9	893.2	893.6
155°	910.1	910.6	911.1	911.3	911.0	910.3	909.6	909.0	908.3	908.8	909.3
157.5°	923.9	924.8	925.6	926.0	925.6	924.8	923.9	923.1	922.3	922.9	923.6
160°	937.5	938.4	939.4	939.9	939.4	938.4	937.5	936.5	935.5	935.7	935.9
162.5°	948.1	949.2	950.3	950.9	950.4	949.4	948.5	947.5	946.5	946.7	946.9
165°	958.3	959.8	961.3	962.0	961.3	960.0	958.7	957.4	956.1	956.1	956.1
167.5°	965.9	967.6	969.2	970.0	969.3	967.8	966.3	964.9	963.4	963.6	963.8
170°	972.5	974.2	975.8	976.6	976.0	974.7	973.4	972.1	970.8	970.6	970.4
172.5°	976.6	978.3	980.1	981.0	980.4	979.1	977.8	976.5	975.2	975.0	974.8
175°	979.8	981.8	983.7	984.7	984.0	982.5	981.0	979.6	978.1	977.9	977.8
177.5°	981.3	983.3	985.2	986.2	985.5	984.2	982.9	981.6	980.3	980.0	979.6
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	927.8	924.8	922.6	922.6	915.9	909.1	905.4	903.9	902.4	896.5	888.3
5°	965.8	956.1	949.4	942.7	931.5	919.6	907.7	901.0	891.3	877.9	868.2
7.5°	1008.3	985.2	977.7	969.5	947.2	927.0	910.6	896.5	880.8	863.7	846.6
10°	1044.0	1019.4	1003.0	988.9	959.8	933.0	908.4	887.5	867.4	845.1	824.2
12.5°	1078.3	1043.3	1026.1	1005.3	974.7	936.0	903.9	877.9	848.0	824.9	799.6
15°	1126.0	1067.1	1038.8	1025.4	984.4	939.0	900.2	861.5	836.9	801.8	779.5
17.5°	1133.5	1085.8	1067.1	1032.9	983.7	932.3	887.5	848.8	811.5	780.2	751.2
20°	1159.5	1096.9	1067.1	1045.5	980.7	928.5	879.3	829.4	793.6	760.1	727.3
22.5°	1175.9	1105.1	1073.8	1039.6	977.7	915.1	857.0	813.8	769.8	735.5	709.4
25°	1171.5	1100.7	1065.6	1033.6	958.3	895.7	843.6	788.4	747.4	710.2	675.9
27.5°	1169.2	1089.5	1052.2	1016.5	945.7	880.1	814.5	769.8	724.3	681.1	655.8
30°	1163.3	1075.3	1032.1	993.4	919.6	851.0	795.1	743.0	697.5	658.0	624.5
32.5°	1143.1	1051.5	1009.8	968.0	891.3	822.7	766.1	717.6	672.2	631.2	599.1
35°	1116.3	1023.2	977.7	933.7	857.0	787.7	735.5	684.8	642.4	602.9	572.3
37.5°	1089.5	990.4	947.9	897.2	826.4	754.1	700.5	655.0	615.5	574.6	541.0
40°	1050.7	951.6	904.7	861.5	778.7	710.9	661.7	620.8	582.0	543.3	514.9
42.5°	997.8	909.1	860.7	813.0	735.5	668.4	620.8	584.2	547.7	515.7	484.4
45°	944.2	857.7	814.5	772.0	687.8	624.5	580.5	547.0	516.4	481.4	456.1
47.5°	879.3	806.3	763.1	721.4	641.6	578.3	538.0	506.7	478.4	449.4	425.5
50°	813.0	749.7	710.2	667.0	590.9	533.6	494.1	468.0	444.9	417.3	397.9
52.5°	741.5	686.3	652.8	611.1	544.0	491.1	450.8	424.8	405.4	385.3	368.1
55°	665.5	625.2	589.5	555.9	492.6	444.9	409.1	386.0	372.6	354.0	339.1
57.5°	596.9	558.2	536.5	498.5	443.4	396.4	368.1	348.8	333.1	321.9	310.0
60°	525.4	494.1	470.2	442.7	394.2	354.7	324.9	313.7	297.3	289.1	283.9
62.5°	456.8	434.5	412.1	391.2	348.0	310.8	288.4	274.2	264.5	256.4	251.9
65°	392.0	371.1	355.5	336.8	301.1	271.3	250.4	239.2	229.5	227.3	222.1
67.5°	328.6	319.7	302.6	287.6	257.1	234.0	218.3	204.2	199.0	196.7	192.3
70°	275.0	264.5	251.1	238.5	215.4	195.2	181.1	175.9	168.4	167.7	162.5
72.5°	226.5	213.9	204.2	194.5	177.4	159.5	152.0	144.6	140.8	137.9	135.6
75°	179.6	170.7	163.9	155.7	140.8	128.9	118.5	115.5	113.3	112.5	111.0
77.5°	134.1	128.2	125.2	117.0	106.6	96.1	91.7	87.2	87.2	85.7	86.4
80°	95.4	91.7	87.9	83.5	74.5	70.0	66.3	63.3	61.9	61.1	61.9
82.5°	60.4	58.1	57.4	54.4	48.4	46.2	43.2	41.0	41.0	41.0	41.0
85°	33.5	33.5	33.5	29.1	26.8	24.6	23.1	22.4	22.4	22.4	23.1
87.5°	14.2	14.2	11.9	11.9	11.2	9.7	8.9	8.9	9.7	9.7	10.4
90°	12.3	11.0	10.3	9.4	7.6	5.8	4.0	2.2	4.0	5.8	7.6
92.5°	11.5	10.2	9.5	9.7	10.0	10.3	10.7	11.0	10.7	10.3	10.0
95°	15.7	15.5	15.4	18.2	23.7	29.3	34.8	40.4	34.8	29.3	23.7
97.5°	67.6	84.7	93.3	91.5	87.9	84.3	80.7	77.1	80.7	84.3	87.9
100°	99.8	122.3	133.6	132.1	129.2	126.3	123.3	120.4	123.3	126.3	129.2
102.5°	180.6	178.7	177.7	176.7	174.8	172.8	170.9	168.9	170.9	172.8	174.8
105°	226.6	225.8	225.4	224.9	223.9	223.0	222.0	221.0	222.0	223.0	223.9
107.5°	272.7	271.6	271.0	270.8	270.3	269.8	269.3	268.8	269.3	269.8	270.3
110°	320.9	319.9	319.4	319.2	318.7	318.2	317.7	317.2	317.7	318.2	318.7

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	369.1	368.8	368.6	368.1	367.1	366.2	365.2	364.2	365.2	366.2	367.1
115°	414.7	414.8	414.9	414.7	414.2	413.7	413.2	412.7	413.2	413.7	414.2
117.5°	459.7	459.2	458.9	458.6	457.9	457.3	456.6	456.0	456.6	457.3	457.9
120°	502.8	502.9	503.0	502.7	502.0	501.4	500.7	500.1	500.7	501.4	502.0
122.5°	543.2	542.9	542.7	542.5	542.2	541.9	541.5	541.2	541.5	541.9	542.2
125°	582.5	582.8	583.0	582.7	582.0	581.4	580.7	580.1	580.7	581.4	582.0
127.5°	619.5	618.7	618.3	618.2	618.1	617.9	617.8	617.6	617.8	617.9	618.1
130°	655.0	654.5	654.3	654.2	654.0	653.9	653.7	653.5	653.7	653.9	654.0
132.5°	689.1	688.4	688.1	687.9	687.6	687.3	686.9	686.6	686.9	687.3	687.6
135°	719.9	719.2	718.9	719.0	719.1	719.3	719.4	719.6	719.4	719.3	719.1
137.5°	750.2	749.4	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
140°	779.6	779.3	779.1	778.9	778.6	778.3	777.9	777.6	777.9	778.3	778.6
142.5°	806.5	806.4	806.3	806.0	805.3	804.6	804.0	803.3	804.0	804.6	805.3
145°	832.0	832.0	832.0	831.8	831.3	830.8	830.3	829.8	830.3	830.8	831.3
147.5°	854.5	854.6	854.7	854.2	853.2	852.3	851.3	850.3	851.3	852.3	853.2
150°	875.8	875.9	876.0	875.7	875.0	874.4	873.7	873.1	873.7	874.4	875.0
152.5°	893.9	894.2	894.4	894.2	893.7	893.2	892.7	892.2	892.7	893.2	893.7
155°	909.8	910.3	910.6	910.5	910.3	910.2	910.0	909.8	910.0	910.2	910.3
157.5°	924.2	924.9	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2	925.2
160°	936.0	936.2	936.3	936.5	937.0	937.5	938.0	938.5	938.0	937.5	937.0
162.5°	947.0	947.2	947.3	947.6	948.3	948.9	949.6	950.2	949.6	948.9	948.3
165°	956.1	956.1	956.1	956.5	957.3	958.2	959.0	959.8	959.0	958.2	957.3
167.5°	963.9	964.1	964.2	964.6	965.4	966.2	967.0	967.8	967.0	966.2	965.4
170°	970.3	970.1	970.0	970.5	971.5	972.4	973.4	974.4	973.4	972.4	971.5
172.5°	974.7	974.5	974.4	974.9	975.9	976.8	977.8	978.8	977.8	976.8	975.9
175°	977.6	977.5	977.4	977.9	978.9	979.8	980.8	981.8	980.8	979.8	978.9
177.5°	979.3	979.0	978.8	979.4	980.5	981.7	982.8	984.0	982.8	981.7	980.5
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	886.0	883.1	884.6	877.1	870.4	860.7	852.5	851.0	849.5	854.0	851.0
5°	860.7	857.0	853.3	844.3	830.9	822.7	810.8	810.0	805.6	798.9	800.3
7.5°	833.1	830.9	825.7	811.5	799.6	785.4	775.8	767.6	763.8	757.9	755.6
10°	810.8	802.6	798.1	782.5	768.3	753.4	740.7	734.8	728.1	722.8	719.1
12.5°	780.2	778.0	765.3	752.7	740.7	723.6	713.9	696.8	687.8	692.3	690.8
15°	760.1	749.7	746.7	728.8	708.7	697.5	679.6	668.4	664.7	658.0	649.8
17.5°	733.3	726.6	716.1	699.7	676.6	661.0	648.3	637.9	633.4	624.5	617.8
20°	707.9	696.8	688.6	673.7	651.3	631.2	615.5	608.8	597.7	590.2	586.5
22.5°	684.8	676.6	664.7	642.4	623.0	603.6	585.0	575.3	564.9	560.4	554.4
25°	656.5	643.1	634.9	610.3	589.5	573.8	556.7	544.0	538.0	530.6	529.1
27.5°	629.0	616.3	606.6	585.0	559.6	539.5	529.1	520.2	509.7	509.7	506.0
30°	601.4	592.4	577.5	556.7	532.8	513.4	501.5	493.3	489.6	486.6	485.9
32.5°	573.8	561.9	552.9	524.6	506.7	488.9	479.9	473.2	468.7	468.0	468.7
35°	545.5	532.1	523.1	497.8	479.9	463.5	459.8	453.8	451.6	450.8	454.6
37.5°	515.7	505.2	494.1	473.2	453.1	443.4	435.9	433.7	433.0	437.4	438.9
40°	488.1	479.2	468.7	446.4	431.5	421.0	417.3	415.1	418.1	422.5	424.8
42.5°	462.0	449.4	441.2	421.0	407.6	401.7	397.2	397.2	400.2	405.4	409.1
45°	434.5	424.8	416.6	398.7	386.8	380.1	379.3	380.1	383.8	387.5	392.0
47.5°	407.6	397.9	389.0	374.1	363.7	359.9	359.2	359.9	365.9	371.1	376.3
50°	383.0	372.6	364.4	350.2	342.0	337.6	338.3	342.0	346.5	354.0	360.7
52.5°	354.0	346.5	339.1	326.4	318.9	316.0	318.2	321.2	329.4	334.6	342.8
55°	325.7	318.9	313.0	303.3	297.3	295.1	296.6	301.1	307.8	316.7	326.4
57.5°	299.6	292.1	286.2	279.5	272.7	273.5	274.2	280.2	288.4	296.6	307.8
60°	270.5	266.0	260.8	252.6	249.6	249.6	251.9	258.6	266.0	279.5	289.1
62.5°	244.4	238.5	234.7	229.5	225.1	225.8	231.0	237.0	245.9	257.1	269.8
65°	217.6	210.9	207.9	203.4	202.0	202.7	206.4	215.4	225.1	234.7	246.7
67.5°	187.8	185.6	182.6	178.1	179.6	180.3	184.1	191.5	202.0	211.6	225.1
70°	162.5	158.0	157.2	153.5	153.5	155.7	163.2	168.4	178.1	188.5	202.7
72.5°	135.6	131.9	131.9	128.9	131.2	133.4	137.1	144.6	153.5	163.9	175.9
75°	108.1	106.6	108.1	106.6	106.6	110.3	114.8	120.7	130.4	141.6	151.3
77.5°	83.5	83.5	82.7	85.0	85.0	87.2	93.2	99.1	106.6	115.5	125.9
80°	61.1	61.1	61.1	63.3	65.6	65.6	69.3	76.8	83.5	89.4	99.1
82.5°	41.7	41.7	41.7	43.2	46.2	46.2	50.7	55.1	62.6	67.8	72.3
85°	25.3	25.3	24.6	26.1	26.8	29.1	32.8	35.8	39.5	44.0	48.4
87.5°	11.2	11.2	11.9	12.7	13.4	14.9	16.4	17.9	21.6	23.1	25.3
90°	9.4	10.3	11.0	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.1
92.5°	9.7	9.5	10.2	11.5	12.8	14.1	15.4	16.4	17.4	18.3	19.3
95°	18.2	15.4	15.5	15.7	15.8	16.0	16.2	17.2	18.2	19.1	20.1
97.5°	91.5	93.3	84.7	67.6	50.5	33.3	16.2	17.0	17.8	18.6	19.4
100°	132.1	133.6	122.3	99.8	77.3	54.8	32.3	29.5	26.7	24.0	21.2
102.5°	176.7	177.7	178.7	180.6	182.6	184.5	186.5	149.8	113.1	76.4	39.7
105°	224.9	225.4	225.8	226.6	227.5	228.3	229.1	230.6	232.0	233.5	235.0
107.5°	270.8	271.0	271.6	272.7	273.8	275.0	276.1	276.9	277.7	278.6	279.4
110°	319.2	319.4	319.9	320.9	321.8	322.8	323.8	324.1	324.5	324.8	325.1

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	368.1	368.6	368.8	369.1	369.4	369.8	370.1	369.9	369.8	369.6	369.5
115°	414.7	414.9	414.8	414.7	414.5	414.4	414.2	414.5	414.8	415.1	415.4
117.5°	458.6	458.9	459.2	459.7	460.2	460.7	461.2	461.0	460.8	460.7	460.5
120°	502.7	503.0	502.9	502.8	502.6	502.5	502.3	502.6	502.9	503.2	503.5
122.5°	542.5	542.7	542.9	543.2	543.5	543.8	544.1	544.3	544.5	544.6	544.8
125°	582.7	583.0	582.8	582.5	582.2	581.9	581.6	582.1	582.6	583.1	583.6
127.5°	618.2	618.3	618.7	619.5	620.4	621.2	622.0	621.8	621.6	621.5	621.3
130°	654.2	654.3	654.5	655.0	655.5	656.0	656.5	656.7	656.8	657.0	657.1
132.5°	687.9	688.1	688.4	689.1	689.7	690.4	691.0	691.2	691.3	691.5	691.6
135°	719.0	718.9	719.2	719.9	720.5	721.2	721.8	722.1	722.5	722.8	723.1
137.5°	749.0	749.0	749.4	750.2	751.1	751.9	752.7	753.0	753.3	753.6	753.9
140°	778.9	779.1	779.3	779.6	779.9	780.3	780.6	781.1	781.6	782.1	782.6
142.5°	806.0	806.3	806.4	806.5	806.7	806.8	807.0	807.3	807.7	808.0	808.3
145°	831.8	832.0	832.0	832.0	832.0	832.0	832.0	832.2	832.3	832.5	832.6
147.5°	854.2	854.7	854.6	854.5	854.3	854.2	854.0	854.2	854.3	854.5	854.6
150°	875.7	876.0	875.9	875.8	875.6	875.5	875.3	875.3	875.3	875.3	875.3
152.5°	894.2	894.4	894.2	893.9	893.6	893.2	892.9	893.2	893.6	893.9	894.2
155°	910.5	910.6	910.3	909.8	909.3	908.8	908.3	909.0	909.6	910.3	911.0
157.5°	925.2	925.2	924.9	924.2	923.6	922.9	922.3	923.1	923.9	924.8	925.6
160°	936.5	936.3	936.2	936.0	935.9	935.7	935.5	936.5	937.5	938.4	939.4
162.5°	947.6	947.3	947.2	947.0	946.9	946.7	946.5	947.5	948.5	949.4	950.4
165°	956.5	956.1	956.1	956.1	956.1	956.1	956.1	957.4	958.7	960.0	961.3
167.5°	964.6	964.2	964.1	963.9	963.8	963.6	963.4	964.9	966.3	967.8	969.3
170°	970.5	970.0	970.1	970.3	970.4	970.6	970.8	972.1	973.4	974.7	976.0
172.5°	974.9	974.4	974.5	974.7	974.8	975.0	975.2	976.5	977.8	979.1	980.4
175°	977.9	977.4	977.5	977.6	977.8	977.9	978.1	979.6	981.0	982.5	984.0
177.5°	979.4	978.8	979.0	979.3	979.6	980.0	980.3	981.6	982.9	984.2	985.5
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	848.8	848.0	844.3	845.8	841.3	842.8	845.1	845.8	848.8	846.6	845.8
5°	796.6	795.1	792.9	790.7	789.9	792.9	787.7	789.2	790.7	792.9	795.9
7.5°	754.1	753.4	751.2	747.4	745.9	744.5	745.2	750.4	749.7	748.9	754.1
10°	715.4	716.1	711.7	710.9	706.5	705.7	706.5	707.9	710.2	713.2	713.9
12.5°	675.2	684.8	676.6	673.7	667.0	670.7	672.2	665.5	669.2	671.4	682.6
15°	649.8	645.3	640.1	640.1	637.1	635.7	631.9	637.1	640.1	644.6	643.1
17.5°	614.8	607.3	604.4	601.4	602.1	605.1	596.9	608.8	608.8	611.1	607.3
20°	584.2	578.3	574.6	573.1	570.8	569.3	568.6	571.6	576.0	577.5	581.3
22.5°	552.2	552.2	546.2	544.0	542.5	540.3	544.0	541.8	544.7	547.7	553.7
25°	525.4	525.4	523.1	520.2	517.9	516.4	518.7	517.9	520.2	523.9	525.4
27.5°	503.8	501.5	500.8	500.0	499.3	500.0	499.3	501.5	503.8	504.5	503.0
30°	485.1	482.9	483.6	483.6	484.4	483.6	482.9	485.1	485.9	484.4	485.1
32.5°	468.0	468.0	469.5	470.2	470.2	471.0	471.7	470.2	471.0	468.7	469.5
35°	453.8	455.3	456.8	457.6	458.3	457.6	459.0	458.3	456.8	455.3	454.6
37.5°	439.7	441.2	444.1	444.9	447.1	447.9	446.4	446.4	445.6	442.7	441.2
40°	424.8	426.3	430.0	432.2	433.7	435.9	434.5	434.5	431.5	428.5	426.3
42.5°	410.6	413.6	417.3	419.6	422.5	422.5	422.5	421.0	417.3	414.3	412.1
45°	396.4	397.2	402.4	406.1	409.1	409.1	409.1	406.9	404.6	398.7	395.7
47.5°	380.8	383.0	389.0	392.7	395.7	396.4	396.4	394.2	389.7	384.5	380.8
50°	363.7	367.4	374.1	379.3	383.0	384.5	382.3	380.8	375.6	369.6	365.2
52.5°	347.3	351.7	359.9	364.4	369.6	370.4	369.6	367.4	361.4	353.2	349.5
55°	330.9	334.6	343.5	351.0	355.5	357.0	355.5	351.7	344.3	336.1	332.4
57.5°	313.0	318.2	327.9	335.3	340.6	341.3	339.8	336.1	330.1	319.7	314.5
60°	294.4	301.1	310.8	318.2	324.9	325.7	324.2	318.9	311.5	301.1	296.6
62.5°	275.7	280.9	292.1	300.3	305.5	309.3	306.3	301.1	293.6	283.2	276.5
65°	254.1	261.6	271.3	278.7	284.7	285.4	283.9	279.5	271.3	260.1	254.9
67.5°	233.2	238.5	248.2	257.8	260.1	262.3	260.1	255.6	248.9	239.2	231.8
70°	207.9	212.4	224.3	231.0	234.0	236.2	234.7	230.3	224.3	215.4	209.4
72.5°	182.6	186.3	197.5	202.7	208.7	207.9	207.2	204.2	196.0	190.0	186.3
75°	155.7	160.2	167.7	174.4	176.6	176.6	176.6	174.4	169.2	159.5	155.7
77.5°	131.2	133.4	139.4	143.1	145.3	146.1	145.3	141.6	138.6	131.9	129.7
80°	100.6	106.6	111.0	111.8	114.8	114.8	114.8	113.3	110.3	103.6	102.8
82.5°	76.0	77.5	82.0	84.2	85.7	85.0	85.0	82.0	81.2	77.5	76.0
85°	51.4	53.7	52.9	55.9	56.6	55.1	55.1	56.6	52.9	53.7	51.4
87.5°	28.3	28.3	29.8	29.1	32.0	32.0	30.6	31.3	29.8	29.1	28.3
90°	20.6	20.8	21.1	21.4	21.7	22.0	21.7	21.4	21.1	20.8	20.6
92.5°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
95°	20.6	20.7	20.8	21.0	21.1	21.3	21.1	21.0	20.8	20.7	20.6
97.5°	19.8	19.9	20.1	20.2	20.4	20.6	20.4	20.2	20.1	19.9	19.8
100°	19.8	19.9	20.1	20.2	20.4	20.6	20.4	20.2	20.1	19.9	19.8
102.5°	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
105°	235.7	232.8	226.9	221.0	215.2	209.3	215.2	221.0	226.9	232.8	235.7
107.5°	279.8	280.1	280.8	281.4	282.1	282.7	282.1	281.4	280.8	280.1	279.8
110°	325.3	325.5	326.0	326.5	327.0	327.5	327.0	326.5	326.0	325.5	325.3

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	369.4	369.7	370.4	371.0	371.7	372.3	371.7	371.0	370.4	369.7	369.4
115°	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6	415.6
117.5°	460.4	460.4	460.4	460.4	460.4	460.4	460.4	460.4	460.4	460.4	460.4
120°	503.7	503.5	503.2	502.9	502.6	502.3	502.6	502.9	503.2	503.5	503.7
122.5°	544.9	544.7	544.4	544.1	543.7	543.4	543.7	544.1	544.4	544.7	544.9
125°	583.8	583.9	584.0	584.2	584.3	584.5	584.3	584.2	584.0	583.9	583.8
127.5°	621.2	621.1	621.0	620.8	620.7	620.5	620.7	620.8	621.0	621.1	621.2
130°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
132.5°	691.7	691.6	691.5	691.3	691.2	691.0	691.2	691.3	691.5	691.6	691.7
135°	723.3	723.5	723.8	724.1	724.5	724.8	724.5	724.1	723.8	723.5	723.3
137.5°	754.1	754.0	753.9	753.7	753.6	753.4	753.6	753.7	753.9	754.0	754.1
140°	782.8	782.9	783.0	783.2	783.3	783.5	783.3	783.2	783.0	782.9	782.8
142.5°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
145°	832.7	832.9	833.2	833.5	833.9	834.2	833.9	833.5	833.2	832.9	832.7
147.5°	854.7	854.8	855.0	855.1	855.3	855.5	855.3	855.1	855.0	854.8	854.7
150°	875.3	875.4	875.5	875.7	875.8	876.0	875.8	875.7	875.5	875.4	875.3
152.5°	894.4	894.3	894.2	894.0	893.9	893.7	893.9	894.0	894.2	894.3	894.4
155°	911.3	911.1	910.6	910.1	909.6	909.1	909.6	910.1	910.6	911.1	911.3
157.5°	926.0	925.6	924.8	923.9	923.1	922.3	923.1	923.9	924.8	925.6	926.0
160°	939.9	939.4	938.4	937.5	936.5	935.5	936.5	937.5	938.4	939.4	939.9
162.5°	950.9	950.3	949.2	948.1	946.9	945.8	946.9	948.1	949.2	950.3	950.9
165°	962.0	961.3	959.8	958.3	956.8	955.3	956.8	958.3	959.8	961.3	962.0
167.5°	970.0	969.2	967.6	965.9	964.3	962.7	964.3	965.9	967.6	969.2	970.0
170°	976.6	975.8	974.2	972.5	970.9	969.3	970.9	972.5	974.2	975.8	976.6
172.5°	981.0	980.1	978.3	976.6	974.8	973.0	974.8	976.6	978.3	980.1	981.0
175°	984.7	983.7	981.8	979.8	977.9	975.9	977.9	979.8	981.8	983.7	984.7
177.5°	986.2	985.2	983.3	981.3	979.4	977.4	979.4	981.3	983.3	985.2	986.2
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	845.8	850.3	845.8	848.8	850.3	854.0	855.5	862.2	864.4	869.7	869.7
5°	795.1	797.4	798.1	801.1	804.1	811.5	816.7	826.4	837.6	839.1	845.8
7.5°	754.1	757.9	763.8	761.6	766.8	778.0	784.7	796.6	807.8	813.8	822.0
10°	717.6	722.1	724.3	726.6	736.3	745.9	756.4	764.6	779.5	788.4	795.1
12.5°	687.8	684.1	688.6	696.8	707.9	713.9	728.1	740.7	751.9	761.6	767.6
15°	649.1	652.1	656.5	670.7	673.7	688.6	693.8	707.9	728.8	737.8	745.2
17.5°	611.8	621.5	630.4	635.7	644.6	656.5	671.4	687.1	700.5	710.9	719.9
20°	582.0	591.7	596.9	600.6	609.6	626.0	640.1	659.5	676.6	684.8	696.8
22.5°	558.2	558.2	565.6	576.8	582.0	597.7	609.6	630.4	649.1	659.5	670.7
25°	528.3	532.8	538.8	548.5	555.9	568.6	585.7	603.6	623.7	632.7	646.8
27.5°	503.8	509.0	517.2	519.4	526.9	538.0	555.9	575.3	596.2	605.9	617.8
30°	485.1	488.1	491.1	495.6	502.3	512.0	526.9	544.0	569.3	576.8	591.7
32.5°	468.7	470.2	471.7	475.4	479.2	488.9	500.8	519.4	540.3	551.5	564.9
35°	453.8	452.3	453.1	455.3	459.0	462.8	475.4	491.1	510.5	523.9	534.3
37.5°	439.7	436.7	435.9	435.9	437.4	441.9	451.6	465.0	485.9	497.1	507.5
40°	424.0	421.0	419.6	418.8	418.1	421.0	428.5	441.9	458.3	468.7	480.7
42.5°	409.1	406.1	402.4	401.7	400.2	401.7	406.9	419.6	433.7	444.1	453.8
45°	394.2	389.0	384.5	381.5	382.3	380.1	383.8	393.5	409.9	416.6	426.3
47.5°	377.8	371.9	365.9	362.9	359.9	361.4	362.9	371.1	385.3	392.0	401.7
50°	362.2	354.0	347.3	343.5	341.3	339.8	341.3	349.5	359.9	365.9	374.1
52.5°	344.3	336.1	329.4	323.4	320.4	318.2	318.9	326.4	336.1	342.0	350.2
55°	327.9	317.5	308.5	301.1	298.8	298.1	297.3	302.6	310.8	316.7	323.4
57.5°	309.3	298.8	289.1	280.2	275.7	275.0	275.0	276.5	286.9	291.4	295.1
60°	290.6	279.5	269.0	260.8	254.1	251.9	251.1	254.1	259.3	263.8	269.0
62.5°	269.8	258.6	245.9	238.5	231.8	225.8	228.0	228.8	236.2	238.5	242.9
65°	249.6	237.0	226.5	214.6	207.2	203.4	202.0	203.4	209.4	210.1	213.1
67.5°	226.5	214.6	202.0	193.8	187.0	180.3	178.8	178.8	181.8	184.1	187.8
70°	204.2	192.3	178.1	169.2	162.5	156.5	154.3	153.5	155.7	157.2	161.0
72.5°	178.1	166.2	155.7	146.1	137.9	133.4	131.2	129.7	131.9	133.4	134.1
75°	150.5	140.8	130.4	120.7	115.5	111.0	108.1	105.8	107.3	107.3	107.3
77.5°	124.4	114.8	106.6	99.9	93.2	87.9	85.7	83.5	84.2	84.2	85.7
80°	96.9	90.2	83.5	77.5	71.5	67.1	65.6	63.3	61.9	61.1	61.1
82.5°	71.5	66.3	60.4	55.1	52.2	47.7	46.2	43.2	43.2	42.5	42.5
85°	47.7	44.7	38.8	35.0	32.8	30.6	29.1	27.6	25.3	25.3	24.6
87.5°	25.3	23.8	22.4	17.9	17.9	15.6	14.9	14.2	11.9	12.7	12.7
90°	20.1	19.1	18.2	17.2	16.2	14.9	13.6	12.3	11.0	10.3	9.4
92.5°	19.3	18.3	17.4	16.4	15.4	14.1	12.8	11.5	10.2	9.5	9.7
95°	20.1	19.1	18.2	17.2	16.2	16.0	15.8	15.7	15.5	15.4	18.2
97.5°	19.4	18.6	17.8	17.0	16.2	33.3	50.5	67.6	84.7	93.3	91.5
100°	21.2	24.0	26.7	29.5	32.3	54.8	77.3	99.8	122.3	133.6	132.1
102.5°	39.7	76.4	113.1	149.8	186.5	184.5	182.6	180.6	178.7	177.7	176.7
105°	235.0	233.5	232.0	230.6	229.1	228.3	227.5	226.6	225.8	225.4	224.9
107.5°	279.4	278.6	277.7	276.9	276.1	275.0	273.8	272.7	271.6	271.0	270.8
110°	325.1	324.8	324.5	324.1	323.8	322.8	321.8	320.9	319.9	319.4	319.2

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	369.5	369.6	369.8	369.9	370.1	369.8	369.4	369.1	368.8	368.6	368.1
115°	415.4	415.1	414.8	414.5	414.2	414.4	414.5	414.7	414.8	414.9	414.7
117.5°	460.5	460.7	460.8	461.0	461.2	460.7	460.2	459.7	459.2	458.9	458.6
120°	503.5	503.2	502.9	502.6	502.3	502.5	502.6	502.8	502.9	503.0	502.7
122.5°	544.8	544.6	544.5	544.3	544.1	543.8	543.5	543.2	542.9	542.7	542.5
125°	583.6	583.1	582.6	582.1	581.6	581.9	582.2	582.5	582.8	583.0	582.7
127.5°	621.3	621.5	621.6	621.8	622.0	621.2	620.4	619.5	618.7	618.3	618.2
130°	657.1	657.0	656.8	656.7	656.5	656.0	655.5	655.0	654.5	654.3	654.2
132.5°	691.6	691.5	691.3	691.2	691.0	690.4	689.7	689.1	688.4	688.1	687.9
135°	723.1	722.8	722.5	722.1	721.8	721.2	720.5	719.9	719.2	718.9	719.0
137.5°	753.9	753.6	753.3	753.0	752.7	751.9	751.1	750.2	749.4	749.0	749.0
140°	782.6	782.1	781.6	781.1	780.6	780.3	779.9	779.6	779.3	779.1	778.9
142.5°	808.3	808.0	807.7	807.3	807.0	806.8	806.7	806.5	806.4	806.3	806.0
145°	832.6	832.5	832.3	832.2	832.0	832.0	832.0	832.0	832.0	832.0	831.8
147.5°	854.6	854.5	854.3	854.2	854.0	854.2	854.3	854.5	854.6	854.7	854.2
150°	875.3	875.3	875.3	875.3	875.3	875.5	875.6	875.8	875.9	876.0	875.7
152.5°	894.2	893.9	893.6	893.2	892.9	893.2	893.6	893.9	894.2	894.4	894.2
155°	911.0	910.3	909.6	909.0	908.3	908.8	909.3	909.8	910.3	910.6	910.5
157.5°	925.6	924.8	923.9	923.1	922.3	922.9	923.6	924.2	924.9	925.2	925.2
160°	939.4	938.4	937.5	936.5	935.5	935.7	935.9	936.0	936.2	936.3	936.5
162.5°	950.4	949.4	948.5	947.5	946.5	946.7	946.9	947.0	947.2	947.3	947.6
165°	961.3	960.0	958.7	957.4	956.1	956.1	956.1	956.1	956.1	956.1	956.5
167.5°	969.3	967.8	966.3	964.9	963.4	963.6	963.8	963.9	964.1	964.2	964.6
170°	976.0	974.7	973.4	972.1	970.8	970.6	970.4	970.3	970.1	970.0	970.5
172.5°	980.4	979.1	977.8	976.5	975.2	975.0	974.8	974.7	974.5	974.4	974.9
175°	984.0	982.5	981.0	979.6	978.1	977.9	977.8	977.6	977.5	977.4	977.9
177.5°	985.5	984.2	982.9	981.6	980.3	980.0	979.6	979.3	979.0	978.8	979.4
180°	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8	981.8

TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	899.5	899.5	899.5	899.5
2.5°	874.9	882.3	889.0	899.5
5°	855.5	865.9	880.1	895.7
7.5°	833.1	849.5	868.2	889.8
10°	812.3	830.9	854.7	880.8
12.5°	790.7	813.0	839.1	867.4
15°	766.1	788.4	817.5	855.5
17.5°	743.7	770.5	801.8	842.1
20°	717.6	743.0	777.2	823.5
22.5°	694.5	723.6	761.6	801.8
25°	669.2	694.5	732.5	781.0
27.5°	643.9	675.2	711.7	758.6
30°	619.3	645.3	684.8	734.0
32.5°	592.4	623.7	660.3	706.5
35°	563.4	593.2	627.5	677.4
37.5°	537.3	566.4	601.4	645.3
40°	508.2	538.8	570.8	614.8
42.5°	479.9	507.5	539.5	579.8
45°	452.3	476.2	505.2	540.3
47.5°	424.0	444.1	471.0	502.3
50°	393.5	415.1	435.2	461.3
52.5°	365.2	383.8	400.2	421.8
55°	337.6	350.2	363.7	380.1
57.5°	308.5	318.2	327.9	345.0
60°	279.5	288.4	293.6	304.8
62.5°	251.1	254.9	261.6	268.3
65°	219.8	225.1	228.8	237.0
67.5°	191.5	193.8	197.5	202.7
70°	161.7	166.9	168.4	172.1
72.5°	136.4	138.6	140.1	140.8
75°	108.1	110.3	111.8	116.3
77.5°	85.0	84.2	87.2	87.9
80°	62.6	60.4	61.1	64.1
82.5°	41.0	41.7	41.0	41.0
85°	25.3	24.6	23.1	23.8
87.5°	11.2	11.2	10.4	10.4
90°	7.6	5.8	4.0	2.2
92.5°	10.0	10.3	10.7	11.0
95°	23.7	29.3	34.8	40.4
97.5°	87.9	84.3	80.7	77.1
100°	129.2	126.3	123.3	120.4
102.5°	174.8	172.8	170.9	168.9
105°	223.9	223.0	222.0	221.0
107.5°	270.3	269.8	269.3	268.8
110°	318.7	318.2	317.7	317.2



TEST NUMBER: P1001650

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	367.1	366.2	365.2	364.2
115°	414.2	413.7	413.2	412.7
117.5°	457.9	457.3	456.6	456.0
120°	502.0	501.4	500.7	500.1
122.5°	542.2	541.9	541.5	541.2
125°	582.0	581.4	580.7	580.1
127.5°	618.1	617.9	617.8	617.6
130°	654.0	653.9	653.7	653.5
132.5°	687.6	687.3	686.9	686.6
135°	719.1	719.3	719.4	719.6
137.5°	749.0	749.0	749.0	749.0
140°	778.6	778.3	777.9	777.6
142.5°	805.3	804.6	804.0	803.3
145°	831.3	830.8	830.3	829.8
147.5°	853.2	852.3	851.3	850.3
150°	875.0	874.4	873.7	873.1
152.5°	893.7	893.2	892.7	892.2
155°	910.3	910.2	910.0	909.8
157.5°	925.2	925.2	925.2	925.2
160°	937.0	937.5	938.0	938.5
162.5°	948.3	948.9	949.6	950.2
165°	957.3	958.2	959.0	959.8
167.5°	965.4	966.2	967.0	967.8
170°	971.5	972.4	973.4	974.4
172.5°	975.9	976.8	977.8	978.8
175°	978.9	979.8	980.8	981.8
177.5°	980.5	981.7	982.8	984.0
180°	981.8	981.8	981.8	981.8

(END OF REPORT)