

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: P1001690

Luminaire Tested: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001690
REPORT IS A COMBINATION OF REPORTS P996312 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

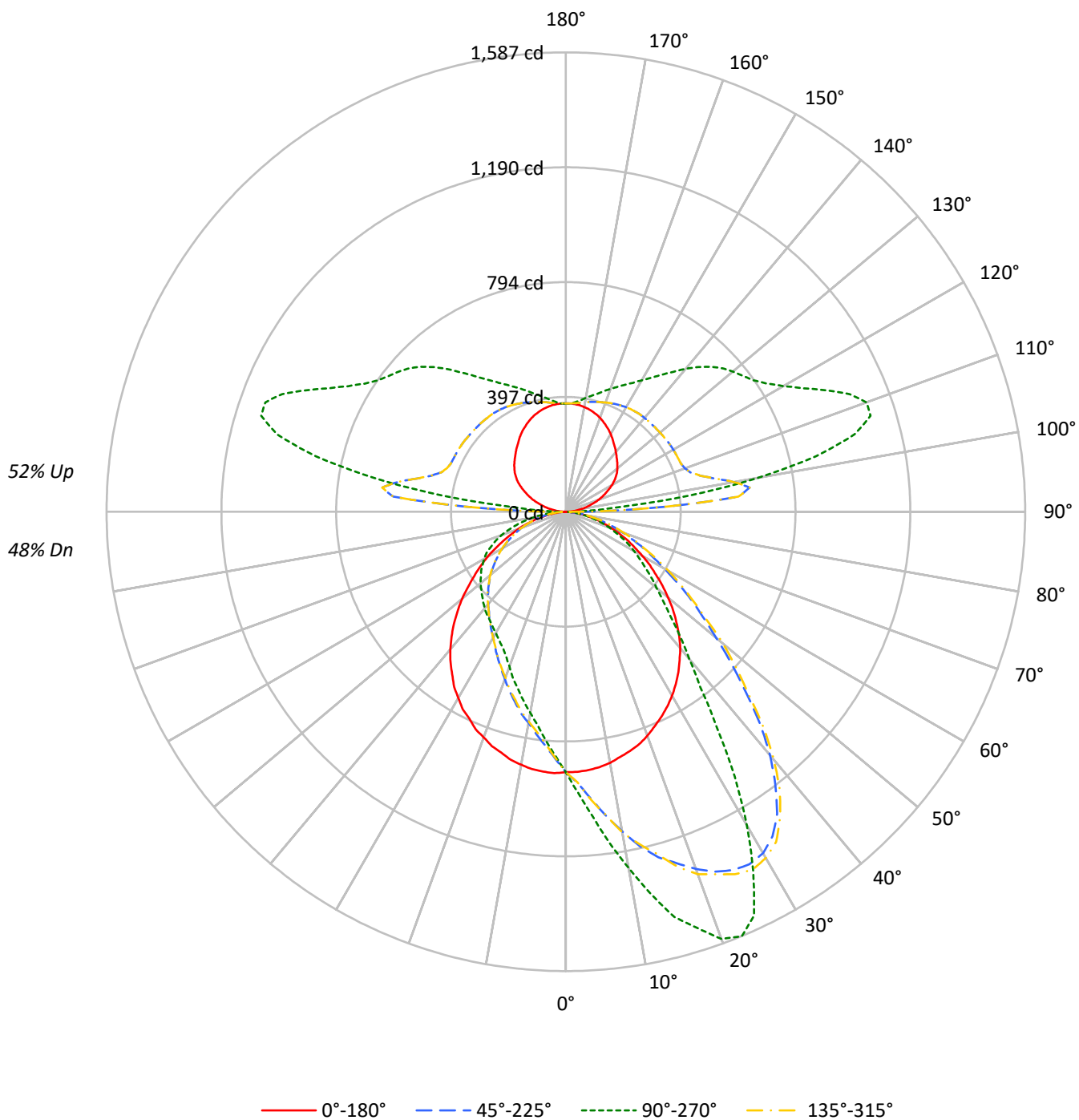
Lumens per Lamp: N/A
Luminaire Lumens: 5206.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39
3	81	72	65	59	74	67	60	55	56	52	48	47	43	40	38	36	34
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29
5	68	57	49	43	63	53	46	40	45	39	35	38	34	30	31	28	25
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	22
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.7
10°-20°	270.2	5.2
20°-30°	429.2	8.2
30°-40°	477.0	9.2
40°-50°	433.7	8.3
50°-60°	354.5	6.8
60°-70°	253.0	4.9
70°-80°	139.2	2.7
80°-90°	39.1	0.8
90°-100°	270.9	5.2
100°-110°	565.6	10.9
110°-120°	502.8	9.7
120°-130°	423.2	8.1
130°-140°	353.1	6.8
140°-150°	269.6	5.2
150°-160°	189.5	3.6
160°-170°	111.5	2.1
170°-180°	36.3	0.7
0°-30°	787.0	15.1
0°-40°	1263.9	24.3
0°-60°	2052.1	39.4
0°-90°	2483.5	47.7
90°-120°	1339.3	25.7
90°-150°	2385.3	45.8
90°-180°	2723.0	52.3
0°-180°	5206.0	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°	1	15	1	15	1	3
95°	24	179	24	179	24	27
105°	86	1033	86	1033	86	92
115°	151	992	151	992	151	150
125°	211	792	211	792	211	188
135°	250	708	250	708	250	194
145°	289	578	289	578	289	181
155°	328	484	328	484	328	151
165°	358	422	358	422	358	101
175°	373	380	373	380	373	35
180°	374	374	374	374	374	

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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°	0.7	2.2	4.4	5.1	5.9	5.9	5.9	10.3	10.3	11.8	13.2
92.5°	10.3	14.7	22.8	33.8	47.0	56.6	66.1	111.6	182.9	251.9	287.9
95°	24.2	26.4	33.8	43.3	61.0	76.4	91.8	155.7	276.1	451.7	598.5
97.5°	40.4	40.4	47.0	55.8	71.2	84.4	97.7	148.3	251.9	432.6	640.4
100°	55.8	55.8	61.0	69.8	83.7	95.4	107.2	150.6	233.5	383.4	590.5
102.5°	70.5	72.0	76.4	84.5	97.7	108.7	119.7	157.9	228.4	350.3	528.0
105°	85.9	88.1	91.8	100.6	113.8	124.4	135.1	170.4	231.3	334.1	481.8
107.5°	102.8	104.3	108.0	117.5	130.0	140.6	151.3	183.6	240.1	329.7	451.7
110°	119.7	121.2	124.8	133.7	146.9	156.8	166.7	199.0	250.4	331.2	437.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	135.9	137.3	141.7	149.8	163.0	173.0	182.9	213.7	261.4	335.6	431.1
115°	151.3	153.5	158.6	166.0	179.9	189.9	199.8	229.1	273.2	341.5	429.6
117.5°	167.4	169.6	174.1	182.1	195.3	205.6	215.9	243.8	284.9	347.4	428.9
120°	183.6	185.1	190.2	198.3	210.8	221.0	231.3	259.2	297.4	354.0	428.9
122.5°	198.3	199.8	204.9	212.2	226.2	236.1	246.0	273.9	309.2	360.6	428.2
125°	210.8	213.7	218.1	226.2	240.1	250.4	260.7	287.1	320.9	367.2	427.4
127.5°	222.5	224.7	229.9	238.7	253.4	263.6	273.9	299.6	331.2	372.3	425.9
130°	232.1	235.0	240.9	251.9	265.9	276.5	287.1	312.1	340.8	378.2	425.2
132.5°	241.6	243.8	251.9	262.2	277.6	287.5	297.4	322.4	350.3	383.4	424.5
135°	250.4	253.4	260.7	273.2	288.6	298.2	307.7	331.9	358.4	388.5	423.7
137.5°	259.2	262.2	270.3	282.0	298.2	307.4	316.5	339.3	364.3	391.4	423.7
140°	268.8	271.0	279.1	291.6	307.0	315.8	324.6	346.6	370.1	395.1	423.0
142.5°	279.1	281.3	288.6	300.4	315.1	323.5	331.9	353.2	374.5	398.0	423.0
145°	288.6	290.8	298.2	308.4	322.4	330.5	338.6	357.7	377.5	398.8	421.5
147.5°	299.6	300.4	307.0	318.0	329.7	337.0	344.4	362.8	380.4	399.5	419.3
150°	309.9	310.6	316.5	325.3	336.4	343.4	350.3	366.5	382.6	399.5	417.1
152.5°	319.5	319.5	325.3	333.4	343.0	349.2	355.4	369.4	384.1	398.0	413.5
155°	328.3	329.0	333.4	340.8	348.8	354.4	359.9	372.3	384.8	396.6	409.8
157.5°	337.1	337.1	341.5	347.4	354.7	359.1	363.5	374.5	384.8	395.1	406.1
160°	345.2	345.2	348.1	353.2	359.1	363.2	367.2	376.0	384.8	392.9	401.7
162.5°	352.5	351.8	354.0	358.4	363.5	366.4	369.4	377.5	384.8	390.7	397.3
165°	357.7	357.7	359.1	362.8	366.5	368.7	370.9	377.5	383.4	387.8	392.9
167.5°	363.5	362.8	363.5	366.5	368.7	370.5	372.3	377.5	381.9	384.8	388.5
170°	367.2	366.5	367.2	369.4	370.9	372.0	373.1	376.7	380.4	381.9	384.1
172.5°	370.9	370.1	370.1	371.6	372.3	373.0	373.8	376.0	378.9	378.9	379.7
175°	373.1	372.3	372.3	373.1	373.8	373.8	373.8	375.3	377.5	376.7	376.7
177.5°	374.5	373.8	373.1	373.8	373.8	373.8	373.8	374.5	376.0	374.5	374.5
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

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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°	12.5	13.2	14.0	14.7	14.7	14.7	15.4	16.2	15.4	15.4	15.4
92.5°	239.4	177.0	132.2	104.3	95.1	85.9	74.9	69.8	66.8	66.8	66.8
95°	615.4	544.2	430.4	331.9	296.3	260.7	224.7	202.0	188.7	179.2	188.7
97.5°	771.8	783.6	727.1	646.3	605.2	564.0	514.1	470.0	448.0	430.4	448.0
100°	778.5	885.7	900.4	864.4	837.2	810.0	746.1	701.3	679.3	673.4	679.3
102.5°	723.4	880.5	967.9	990.0	982.6	975.3	942.2	912.9	889.4	884.9	889.4
105°	654.3	822.5	949.6	1022.3	1037.4	1052.4	1053.9	1048.0	1037.7	1033.3	1037.7
107.5°	597.8	751.3	888.6	990.0	1020.8	1051.7	1084.0	1097.2	1103.1	1103.8	1103.1
110°	557.4	688.1	815.2	921.7	962.0	1002.4	1054.6	1085.4	1098.7	1105.3	1098.7

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	534.6	641.9	750.6	849.7	890.1	930.5	991.4	1030.4	1050.2	1061.9	1050.2
115°	522.2	614.0	704.3	790.2	825.4	860.7	918.7	962.8	986.3	992.2	986.3
117.5°	515.5	597.8	674.2	743.9	774.8	805.6	857.0	895.2	920.2	923.9	920.2
120°	510.4	587.5	655.8	714.6	740.7	766.7	808.6	840.9	860.0	868.1	860.0
122.5°	504.5	578.7	644.1	696.2	718.2	740.3	774.1	800.5	815.9	824.0	815.9
125°	497.9	568.4	631.6	682.3	702.4	722.6	752.0	773.3	787.3	791.7	787.3
127.5°	489.1	556.7	617.6	668.3	687.4	706.5	735.9	755.0	766.7	771.1	766.7
130°	481.0	542.0	600.0	649.9	669.4	688.9	719.0	737.3	749.1	753.5	749.1
132.5°	473.7	526.6	580.2	628.6	648.1	667.6	696.9	718.2	729.3	733.7	729.3
135°	466.3	512.6	560.3	605.1	623.5	641.9	671.2	691.8	703.5	708.0	703.5
137.5°	459.7	499.4	541.2	580.2	597.1	614.0	641.9	663.2	672.7	677.8	672.7
140°	454.6	488.4	522.9	555.9	571.3	586.8	612.5	628.6	638.9	644.8	638.9
142.5°	450.2	478.1	507.5	534.6	547.4	560.3	582.4	597.1	605.9	609.5	605.9
145°	445.0	468.5	493.5	515.5	525.8	536.1	554.5	567.0	574.3	578.0	574.3
147.5°	440.6	460.5	481.0	499.4	507.8	516.3	530.2	541.2	547.1	548.6	547.1
150°	435.5	453.1	470.0	484.7	491.3	497.9	509.7	519.2	523.6	524.4	523.6
152.5°	429.6	445.0	459.0	472.2	477.4	482.5	492.0	499.4	501.6	502.3	501.6
155°	423.7	437.0	448.7	459.7	464.1	468.5	475.9	481.8	484.0	484.0	484.0
157.5°	417.9	428.2	438.4	448.0	451.6	455.3	461.2	465.6	467.1	467.1	467.1
160°	411.3	420.1	428.2	436.2	439.2	442.1	446.5	450.9	451.7	451.7	451.7
162.5°	405.4	412.0	418.6	424.5	427.0	429.6	432.6	437.0	437.7	437.0	437.7
165°	398.8	404.7	409.1	414.2	416.0	417.9	420.8	423.7	423.0	422.3	423.0
167.5°	392.9	397.3	401.0	405.4	406.5	407.6	409.1	411.3	411.3	410.5	411.3
170°	387.0	390.7	392.9	395.8	396.9	398.0	399.5	400.2	399.5	399.5	399.5
172.5°	381.9	384.8	386.3	387.8	388.5	389.2	390.0	390.7	390.0	388.5	390.0
175°	378.2	379.7	380.4	381.9	381.9	381.9	381.9	383.4	381.9	380.4	381.9
177.5°	375.3	376.0	376.7	376.7	377.1	377.5	376.7	377.5	376.0	374.5	376.0
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	16.2	15.4	14.7	14.7	14.7	14.0	13.2	12.5	13.2	11.8	10.3
92.5°	69.8	74.9	85.9	95.1	104.3	132.2	177.0	239.4	287.9	251.9	182.9
95°	202.0	224.7	260.7	296.3	331.9	430.4	544.2	615.4	598.5	451.7	276.1
97.5°	470.0	514.1	564.0	605.2	646.3	727.1	783.6	771.8	640.4	432.6	251.9
100°	701.3	746.1	810.0	837.2	864.4	900.4	885.7	778.5	590.5	383.4	233.5
102.5°	912.9	942.2	975.3	982.6	990.0	967.9	880.5	723.4	528.0	350.3	228.4
105°	1048.0	1053.9	1052.4	1037.4	1022.3	949.6	822.5	654.3	481.8	334.1	231.3
107.5°	1097.2	1084.0	1051.7	1020.8	990.0	888.6	751.3	597.8	451.7	329.7	240.1
110°	1085.4	1054.6	1002.4	962.0	921.7	815.2	688.1	557.4	437.7	331.2	250.4

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1030.4	991.4	930.5	890.1	849.7	750.6	641.9	534.6	431.1	335.6	261.4
115°	962.8	918.7	860.7	825.4	790.2	704.3	614.0	522.2	429.6	341.5	273.2
117.5°	895.2	857.0	805.6	774.8	743.9	674.2	597.8	515.5	428.9	347.4	284.9
120°	840.9	808.6	766.7	740.7	714.6	655.8	587.5	510.4	428.9	354.0	297.4
122.5°	800.5	774.1	740.3	718.2	696.2	644.1	578.7	504.5	428.2	360.6	309.2
125°	773.3	752.0	722.6	702.4	682.3	631.6	568.4	497.9	427.4	367.2	320.9
127.5°	755.0	735.9	706.5	687.4	668.3	617.6	556.7	489.1	425.9	372.3	331.2
130°	737.3	719.0	688.9	669.4	649.9	600.0	542.0	481.0	425.2	378.2	340.8
132.5°	718.2	696.9	667.6	648.1	628.6	580.2	526.6	473.7	424.5	383.4	350.3
135°	691.8	671.2	641.9	623.5	605.1	560.3	512.6	466.3	423.7	388.5	358.4
137.5°	663.2	641.9	614.0	597.1	580.2	541.2	499.4	459.7	423.7	391.4	364.3
140°	628.6	612.5	586.8	571.3	555.9	522.9	488.4	454.6	423.0	395.1	370.1
142.5°	597.1	582.4	560.3	547.4	534.6	507.5	478.1	450.2	423.0	398.0	374.5
145°	567.0	554.5	536.1	525.8	515.5	493.5	468.5	445.0	421.5	398.8	377.5
147.5°	541.2	530.2	516.3	507.8	499.4	481.0	460.5	440.6	419.3	399.5	380.4
150°	519.2	509.7	497.9	491.3	484.7	470.0	453.1	435.5	417.1	399.5	382.6
152.5°	499.4	492.0	482.5	477.4	472.2	459.0	445.0	429.6	413.5	398.0	384.1
155°	481.8	475.9	468.5	464.1	459.7	448.7	437.0	423.7	409.8	396.6	384.8
157.5°	465.6	461.2	455.3	451.6	448.0	438.4	428.2	417.9	406.1	395.1	384.8
160°	450.9	446.5	442.1	439.2	436.2	428.2	420.1	411.3	401.7	392.9	384.8
162.5°	437.0	432.6	429.6	427.0	424.5	418.6	412.0	405.4	397.3	390.7	384.8
165°	423.7	420.8	417.9	416.0	414.2	409.1	404.7	398.8	392.9	387.8	383.4
167.5°	411.3	409.1	407.6	406.5	405.4	401.0	397.3	392.9	388.5	384.8	381.9
170°	400.2	399.5	398.0	396.9	395.8	392.9	390.7	387.0	384.1	381.9	380.4
172.5°	390.7	390.0	389.2	388.5	387.8	386.3	384.8	381.9	379.7	378.9	378.9
175°	383.4	381.9	381.9	381.9	381.9	380.4	379.7	378.2	376.7	376.7	377.5
177.5°	377.5	376.7	377.5	377.1	376.7	376.7	376.0	375.3	374.5	374.5	376.0
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	10.3	5.9	5.9	5.9	5.1	4.4	2.2	0.7	2.2	4.4	5.1
92.5°	111.6	66.1	56.6	47.0	33.8	22.8	14.7	10.3	14.7	22.8	33.8
95°	155.7	91.8	76.4	61.0	43.3	33.8	26.4	24.2	26.4	33.8	43.3
97.5°	148.3	97.7	84.4	71.2	55.8	47.0	40.4	40.4	40.4	47.0	55.8
100°	150.6	107.2	95.4	83.7	69.8	61.0	55.8	55.8	55.8	61.0	69.8
102.5°	157.9	119.7	108.7	97.7	84.5	76.4	72.0	70.5	72.0	76.4	84.5
105°	170.4	135.1	124.4	113.8	100.6	91.8	88.1	85.9	88.1	91.8	100.6
107.5°	183.6	151.3	140.6	130.0	117.5	108.0	104.3	102.8	104.3	108.0	117.5
110°	199.0	166.7	156.8	146.9	133.7	124.8	121.2	119.7	121.2	124.8	133.7

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	213.7	182.9	173.0	163.0	149.8	141.7	137.3	135.9	137.3	141.7	149.8
115°	229.1	199.8	189.9	179.9	166.0	158.6	153.5	151.3	153.5	158.6	166.0
117.5°	243.8	215.9	205.6	195.3	182.1	174.1	169.6	167.4	169.6	174.1	182.1
120°	259.2	231.3	221.0	210.8	198.3	190.2	185.1	183.6	185.1	190.2	198.3
122.5°	273.9	246.0	236.1	226.2	212.2	204.9	199.8	198.3	199.8	204.9	212.2
125°	287.1	260.7	250.4	240.1	226.2	218.1	213.7	210.8	213.7	218.1	226.2
127.5°	299.6	273.9	263.6	253.4	238.7	229.9	224.7	222.5	224.7	229.9	238.7
130°	312.1	287.1	276.5	265.9	251.9	240.9	235.0	232.1	235.0	240.9	251.9
132.5°	322.4	297.4	287.5	277.6	262.2	251.9	243.8	241.6	243.8	251.9	262.2
135°	331.9	307.7	298.2	288.6	273.2	260.7	253.4	250.4	253.4	260.7	273.2
137.5°	339.3	316.5	307.4	298.2	282.0	270.3	262.2	259.2	262.2	270.3	282.0
140°	346.6	324.6	315.8	307.0	291.6	279.1	271.0	268.8	271.0	279.1	291.6
142.5°	353.2	331.9	323.5	315.1	300.4	288.6	281.3	279.1	281.3	288.6	300.4
145°	357.7	338.6	330.5	322.4	308.4	298.2	290.8	288.6	290.8	298.2	308.4
147.5°	362.8	344.4	337.0	329.7	318.0	307.0	300.4	299.6	300.4	307.0	318.0
150°	366.5	350.3	343.4	336.4	325.3	316.5	310.6	309.9	310.6	316.5	325.3
152.5°	369.4	355.4	349.2	343.0	333.4	325.3	319.5	319.5	319.5	325.3	333.4
155°	372.3	359.9	354.4	348.8	340.8	333.4	329.0	328.3	329.0	333.4	340.8
157.5°	374.5	363.5	359.1	354.7	347.4	341.5	337.1	337.1	337.1	341.5	347.4
160°	376.0	367.2	363.2	359.1	353.2	348.1	345.2	345.2	345.2	348.1	353.2
162.5°	377.5	369.4	366.4	363.5	358.4	354.0	351.8	352.5	351.8	354.0	358.4
165°	377.5	370.9	368.7	366.5	362.8	359.1	357.7	357.7	357.7	359.1	362.8
167.5°	377.5	372.3	370.5	368.7	366.5	363.5	362.8	363.5	362.8	363.5	366.5
170°	376.7	373.1	372.0	370.9	369.4	367.2	366.5	367.2	366.5	367.2	369.4
172.5°	376.0	373.8	373.0	372.3	371.6	370.1	370.1	370.9	370.1	370.1	371.6
175°	375.3	373.8	373.8	373.8	373.1	372.3	372.3	373.1	372.3	372.3	373.1
177.5°	374.5	373.8	373.8	373.8	373.8	373.1	373.8	374.5	373.8	373.1	373.8
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	5.9	5.9	5.9	10.3	10.3	11.8	13.2	12.5	13.2	14.0	14.7
92.5°	47.0	56.6	66.1	111.6	182.9	251.9	287.9	239.4	177.0	132.2	104.3
95°	61.0	76.4	91.8	155.7	276.1	451.7	598.5	615.4	544.2	430.4	331.9
97.5°	71.2	84.4	97.7	148.3	251.9	432.6	640.4	771.8	783.6	727.1	646.3
100°	83.7	95.4	107.2	150.6	233.5	383.4	590.5	778.5	885.7	900.4	864.4
102.5°	97.7	108.7	119.7	157.9	228.4	350.3	528.0	723.4	880.5	967.9	990.0
105°	113.8	124.4	135.1	170.4	231.3	334.1	481.8	654.3	822.5	949.6	1022.3
107.5°	130.0	140.6	151.3	183.6	240.1	329.7	451.7	597.8	751.3	888.6	990.0
110°	146.9	156.8	166.7	199.0	250.4	331.2	437.7	557.4	688.1	815.2	921.7



TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	163.0	173.0	182.9	213.7	261.4	335.6	431.1	534.6	641.9	750.6	849.7
115°	179.9	189.9	199.8	229.1	273.2	341.5	429.6	522.2	614.0	704.3	790.2
117.5°	195.3	205.6	215.9	243.8	284.9	347.4	428.9	515.5	597.8	674.2	743.9
120°	210.8	221.0	231.3	259.2	297.4	354.0	428.9	510.4	587.5	655.8	714.6
122.5°	226.2	236.1	246.0	273.9	309.2	360.6	428.2	504.5	578.7	644.1	696.2
125°	240.1	250.4	260.7	287.1	320.9	367.2	427.4	497.9	568.4	631.6	682.3
127.5°	253.4	263.6	273.9	299.6	331.2	372.3	425.9	489.1	556.7	617.6	668.3
130°	265.9	276.5	287.1	312.1	340.8	378.2	425.2	481.0	542.0	600.0	649.9
132.5°	277.6	287.5	297.4	322.4	350.3	383.4	424.5	473.7	526.6	580.2	628.6
135°	288.6	298.2	307.7	331.9	358.4	388.5	423.7	466.3	512.6	560.3	605.1
137.5°	298.2	307.4	316.5	339.3	364.3	391.4	423.7	459.7	499.4	541.2	580.2
140°	307.0	315.8	324.6	346.6	370.1	395.1	423.0	454.6	488.4	522.9	555.9
142.5°	315.1	323.5	331.9	353.2	374.5	398.0	423.0	450.2	478.1	507.5	534.6
145°	322.4	330.5	338.6	357.7	377.5	398.8	421.5	445.0	468.5	493.5	515.5
147.5°	329.7	337.0	344.4	362.8	380.4	399.5	419.3	440.6	460.5	481.0	499.4
150°	336.4	343.4	350.3	366.5	382.6	399.5	417.1	435.5	453.1	470.0	484.7
152.5°	343.0	349.2	355.4	369.4	384.1	398.0	413.5	429.6	445.0	459.0	472.2
155°	348.8	354.4	359.9	372.3	384.8	396.6	409.8	423.7	437.0	448.7	459.7
157.5°	354.7	359.1	363.5	374.5	384.8	395.1	406.1	417.9	428.2	438.4	448.0
160°	359.1	363.2	367.2	376.0	384.8	392.9	401.7	411.3	420.1	428.2	436.2
162.5°	363.5	366.4	369.4	377.5	384.8	390.7	397.3	405.4	412.0	418.6	424.5
165°	366.5	368.7	370.9	377.5	383.4	387.8	392.9	398.8	404.7	409.1	414.2
167.5°	368.7	370.5	372.3	377.5	381.9	384.8	388.5	392.9	397.3	401.0	405.4
170°	370.9	372.0	373.1	376.7	380.4	381.9	384.1	387.0	390.7	392.9	395.8
172.5°	372.3	373.0	373.8	376.0	378.9	378.9	379.7	381.9	384.8	386.3	387.8
175°	373.8	373.8	373.8	375.3	377.5	376.7	376.7	378.2	379.7	380.4	381.9
177.5°	373.8	373.8	373.8	374.5	376.0	374.5	374.5	375.3	376.0	376.7	376.7
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	14.7	14.7	15.4	16.2	15.4	15.4	15.4	16.2	15.4	14.7	14.7
92.5°	95.1	85.9	74.9	69.8	66.8	66.8	66.8	69.8	74.9	85.9	95.1
95°	296.3	260.7	224.7	202.0	188.7	179.2	188.7	202.0	224.7	260.7	296.3
97.5°	605.2	564.0	514.1	470.0	448.0	430.4	448.0	470.0	514.1	564.0	605.2
100°	837.2	810.0	746.1	701.3	679.3	673.4	679.3	701.3	746.1	810.0	837.2
102.5°	982.6	975.3	942.2	912.9	889.4	884.9	889.4	912.9	942.2	975.3	982.6
105°	1037.4	1052.4	1053.9	1048.0	1037.7	1033.3	1037.7	1048.0	1053.9	1052.4	1037.4
107.5°	1020.8	1051.7	1084.0	1097.2	1103.1	1103.8	1103.1	1097.2	1084.0	1051.7	1020.8
110°	962.0	1002.4	1054.6	1085.4	1098.7	1105.3	1098.7	1085.4	1054.6	1002.4	962.0

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	890.1	930.5	991.4	1030.4	1050.2	1061.9	1050.2	1030.4	991.4	930.5	890.1
115°	825.4	860.7	918.7	962.8	986.3	992.2	986.3	962.8	918.7	860.7	825.4
117.5°	774.8	805.6	857.0	895.2	920.2	923.9	920.2	895.2	857.0	805.6	774.8
120°	740.7	766.7	808.6	840.9	860.0	868.1	860.0	840.9	808.6	766.7	740.7
122.5°	718.2	740.3	774.1	800.5	815.9	824.0	815.9	800.5	774.1	740.3	718.2
125°	702.4	722.6	752.0	773.3	787.3	791.7	787.3	773.3	752.0	722.6	702.4
127.5°	687.4	706.5	735.9	755.0	766.7	771.1	766.7	755.0	735.9	706.5	687.4
130°	669.4	688.9	719.0	737.3	749.1	753.5	749.1	737.3	719.0	688.9	669.4
132.5°	648.1	667.6	696.9	718.2	729.3	733.7	729.3	718.2	696.9	667.6	648.1
135°	623.5	641.9	671.2	691.8	703.5	708.0	703.5	691.8	671.2	641.9	623.5
137.5°	597.1	614.0	641.9	663.2	672.7	677.8	672.7	663.2	641.9	614.0	597.1
140°	571.3	586.8	612.5	628.6	638.9	644.8	638.9	628.6	612.5	586.8	571.3
142.5°	547.4	560.3	582.4	597.1	605.9	609.5	605.9	597.1	582.4	560.3	547.4
145°	525.8	536.1	554.5	567.0	574.3	578.0	574.3	567.0	554.5	536.1	525.8
147.5°	507.8	516.3	530.2	541.2	547.1	548.6	547.1	541.2	530.2	516.3	507.8
150°	491.3	497.9	509.7	519.2	523.6	524.4	523.6	519.2	509.7	497.9	491.3
152.5°	477.4	482.5	492.0	499.4	501.6	502.3	501.6	499.4	492.0	482.5	477.4
155°	464.1	468.5	475.9	481.8	484.0	484.0	484.0	481.8	475.9	468.5	464.1
157.5°	451.6	455.3	461.2	465.6	467.1	467.1	467.1	465.6	461.2	455.3	451.6
160°	439.2	442.1	446.5	450.9	451.7	451.7	451.7	450.9	446.5	442.1	439.2
162.5°	427.0	429.6	432.6	437.0	437.7	437.0	437.7	437.0	432.6	429.6	427.0
165°	416.0	417.9	420.8	423.7	423.0	422.3	423.0	423.7	420.8	417.9	416.0
167.5°	406.5	407.6	409.1	411.3	411.3	410.5	411.3	411.3	409.1	407.6	406.5
170°	396.9	398.0	399.5	400.2	399.5	399.5	399.5	400.2	399.5	398.0	396.9
172.5°	388.5	389.2	390.0	390.7	390.0	388.5	390.0	390.7	390.0	389.2	388.5
175°	381.9	381.9	381.9	383.4	381.9	380.4	381.9	383.4	381.9	381.9	381.9
177.5°	377.1	377.5	376.7	377.5	376.0	374.5	376.0	377.5	376.7	377.5	377.1
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	14.7	14.0	13.2	12.5	13.2	11.8	10.3	10.3	5.9	5.9	5.9
92.5°	104.3	132.2	177.0	239.4	287.9	251.9	182.9	111.6	66.1	56.6	47.0
95°	331.9	430.4	544.2	615.4	598.5	451.7	276.1	155.7	91.8	76.4	61.0
97.5°	646.3	727.1	783.6	771.8	640.4	432.6	251.9	148.3	97.7	84.4	71.2
100°	864.4	900.4	885.7	778.5	590.5	383.4	233.5	150.6	107.2	95.4	83.7
102.5°	990.0	967.9	880.5	723.4	528.0	350.3	228.4	157.9	119.7	108.7	97.7
105°	1022.3	949.6	822.5	654.3	481.8	334.1	231.3	170.4	135.1	124.4	113.8
107.5°	990.0	888.6	751.3	597.8	451.7	329.7	240.1	183.6	151.3	140.6	130.0
110°	921.7	815.2	688.1	557.4	437.7	331.2	250.4	199.0	166.7	156.8	146.9

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	849.7	750.6	641.9	534.6	431.1	335.6	261.4	213.7	182.9	173.0	163.0
115°	790.2	704.3	614.0	522.2	429.6	341.5	273.2	229.1	199.8	189.9	179.9
117.5°	743.9	674.2	597.8	515.5	428.9	347.4	284.9	243.8	215.9	205.6	195.3
120°	714.6	655.8	587.5	510.4	428.9	354.0	297.4	259.2	231.3	221.0	210.8
122.5°	696.2	644.1	578.7	504.5	428.2	360.6	309.2	273.9	246.0	236.1	226.2
125°	682.3	631.6	568.4	497.9	427.4	367.2	320.9	287.1	260.7	250.4	240.1
127.5°	668.3	617.6	556.7	489.1	425.9	372.3	331.2	299.6	273.9	263.6	253.4
130°	649.9	600.0	542.0	481.0	425.2	378.2	340.8	312.1	287.1	276.5	265.9
132.5°	628.6	580.2	526.6	473.7	424.5	383.4	350.3	322.4	297.4	287.5	277.6
135°	605.1	560.3	512.6	466.3	423.7	388.5	358.4	331.9	307.7	298.2	288.6
137.5°	580.2	541.2	499.4	459.7	423.7	391.4	364.3	339.3	316.5	307.4	298.2
140°	555.9	522.9	488.4	454.6	423.0	395.1	370.1	346.6	324.6	315.8	307.0
142.5°	534.6	507.5	478.1	450.2	423.0	398.0	374.5	353.2	331.9	323.5	315.1
145°	515.5	493.5	468.5	445.0	421.5	398.8	377.5	357.7	338.6	330.5	322.4
147.5°	499.4	481.0	460.5	440.6	419.3	399.5	380.4	362.8	344.4	337.0	329.7
150°	484.7	470.0	453.1	435.5	417.1	399.5	382.6	366.5	350.3	343.4	336.4
152.5°	472.2	459.0	445.0	429.6	413.5	398.0	384.1	369.4	355.4	349.2	343.0
155°	459.7	448.7	437.0	423.7	409.8	396.6	384.8	372.3	359.9	354.4	348.8
157.5°	448.0	438.4	428.2	417.9	406.1	395.1	384.8	374.5	363.5	359.1	354.7
160°	436.2	428.2	420.1	411.3	401.7	392.9	384.8	376.0	367.2	363.2	359.1
162.5°	424.5	418.6	412.0	405.4	397.3	390.7	384.8	377.5	369.4	366.4	363.5
165°	414.2	409.1	404.7	398.8	392.9	387.8	383.4	377.5	370.9	368.7	366.5
167.5°	405.4	401.0	397.3	392.9	388.5	384.8	381.9	377.5	372.3	370.5	368.7
170°	395.8	392.9	390.7	387.0	384.1	381.9	380.4	376.7	373.1	372.0	370.9
172.5°	387.8	386.3	384.8	381.9	379.7	378.9	378.9	376.0	373.8	373.0	372.3
175°	381.9	380.4	379.7	378.2	376.7	376.7	377.5	375.3	373.8	373.8	373.8
177.5°	376.7	376.7	376.0	375.3	374.5	374.5	376.0	374.5	373.8	373.8	373.8
180°	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8	373.8

TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

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°	5.1	4.4	2.2	0.7
92.5°	33.8	22.8	14.7	10.3
95°	43.3	33.8	26.4	24.2
97.5°	55.8	47.0	40.4	40.4
100°	69.8	61.0	55.8	55.8
102.5°	84.5	76.4	72.0	70.5
105°	100.6	91.8	88.1	85.9
107.5°	117.5	108.0	104.3	102.8
110°	133.7	124.8	121.2	119.7



TEST NUMBER: P1001690

CATALOG NUMBER: SA4XXDIP-B575D810UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	149.8	141.7	137.3	135.9
115°	166.0	158.6	153.5	151.3
117.5°	182.1	174.1	169.6	167.4
120°	198.3	190.2	185.1	183.6
122.5°	212.2	204.9	199.8	198.3
125°	226.2	218.1	213.7	210.8
127.5°	238.7	229.9	224.7	222.5
130°	251.9	240.9	235.0	232.1
132.5°	262.2	251.9	243.8	241.6
135°	273.2	260.7	253.4	250.4
137.5°	282.0	270.3	262.2	259.2
140°	291.6	279.1	271.0	268.8
142.5°	300.4	288.6	281.3	279.1
145°	308.4	298.2	290.8	288.6
147.5°	318.0	307.0	300.4	299.6
150°	325.3	316.5	310.6	309.9
152.5°	333.4	325.3	319.5	319.5
155°	340.8	333.4	329.0	328.3
157.5°	347.4	341.5	337.1	337.1
160°	353.2	348.1	345.2	345.2
162.5°	358.4	354.0	351.8	352.5
165°	362.8	359.1	357.7	357.7
167.5°	366.5	363.5	362.8	363.5
170°	369.4	367.2	366.5	367.2
172.5°	371.6	370.1	370.1	370.9
175°	373.1	372.3	372.3	373.1
177.5°	373.8	373.1	373.8	374.5
180°	373.8	373.8	373.8	373.8

(END OF REPORT)