

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: P1001648

Luminaire Tested: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001648
REPORT IS A COMBINATION OF REPORTS P996270 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_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

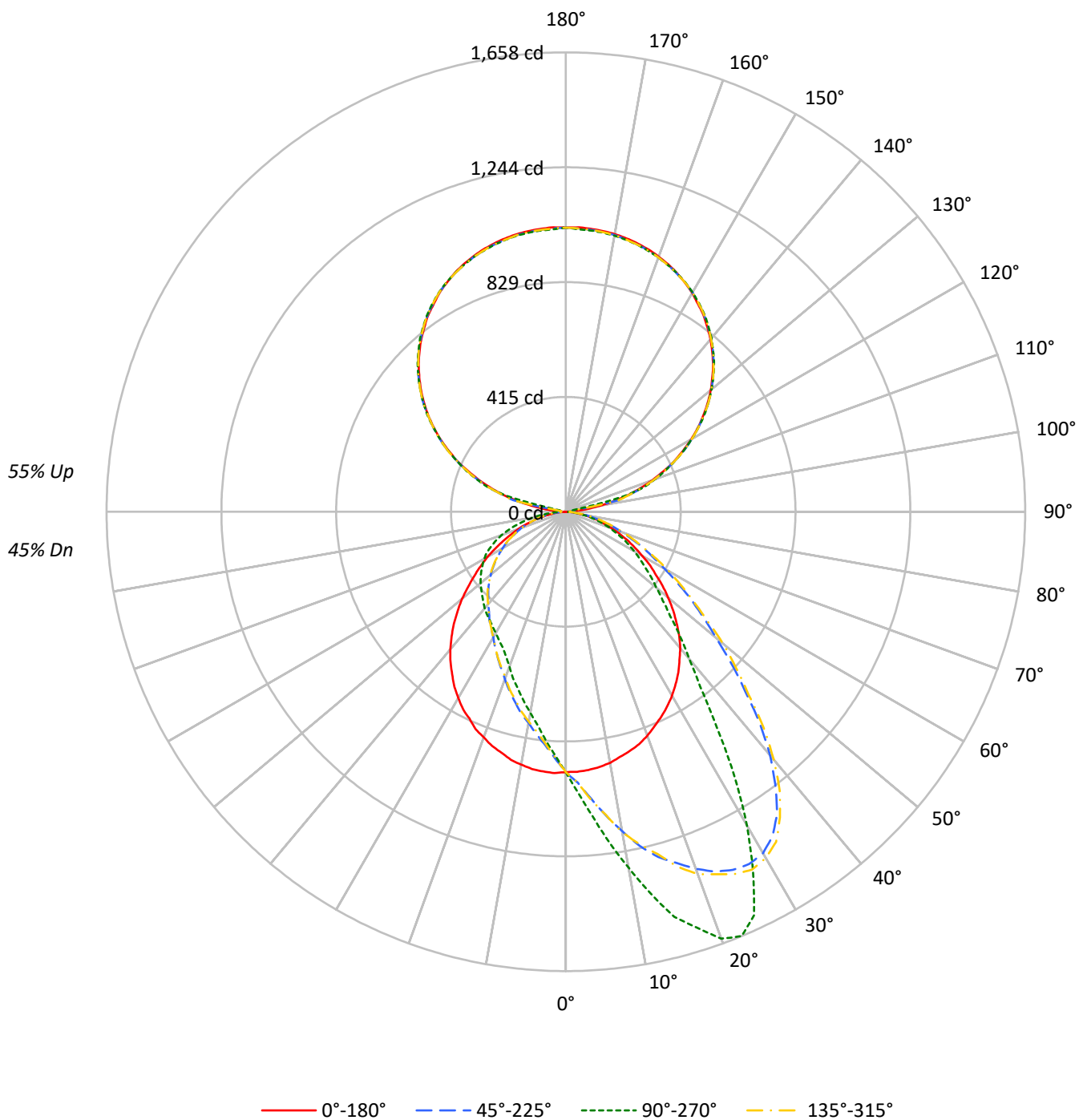
Lumens per Lamp: N/A
Luminaire Lumens: 5767.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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



TEST NUMBER: P1001648

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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52
1	97	93	89	85	89	85	82	79	71	69	66	58	56	55	46	45	44
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	41	39	37
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	28
5	68	56	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	32	53	42	35	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14

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	1.6
10°-20°	282.2	4.9
20°-30°	448.3	7.8
30°-40°	498.1	8.6
40°-50°	453.0	7.9
50°-60°	370.2	6.4
60°-70°	264.2	4.6
70°-80°	145.4	2.5
80°-90°	41.4	0.7
90°-100°	34.0	0.6
100°-110°	224.1	3.9
110°-120°	428.0	7.4
120°-130°	543.4	9.4
130°-140°	581.3	10.1
140°-150°	543.6	9.4
150°-160°	438.3	7.6
160°-170°	282.7	4.9
170°-180°	97.4	1.7
0°-30°	821.9	14.3
0°-40°	1320.0	22.9
0°-60°	2143.1	37.2
0°-90°	2594.1	45.0
90°-120°	686.2	11.9
90°-150°	2354.4	40.8
90°-180°	3173.0	55.0
0°-180°	5767.0	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	23	2	23	2	4
95°	42	22	42	22	42	52
105°	231	219	231	219	231	242
115°	431	434	431	434	431	424
125°	606	610	606	610	606	541
135°	752	757	752	757	752	579
145°	867	871	867	871	867	542
155°	950	950	950	950	950	438
165°	1002	998	1002	998	1002	283
175°	1025	1019	1025	1019	1025	98
180°	1025	1025	1025	1025	1025	



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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°	2.3	4.2	6.0	7.9	9.8	10.7	11.4	12.8	14.1	15.5	16.9
92.5°	11.5	11.2	10.8	10.5	10.2	10.0	10.7	12.0	13.4	14.7	16.1
95°	42.2	36.4	30.6	24.8	19.0	16.1	16.2	16.4	16.5	16.7	16.9
97.5°	80.5	84.3	88.0	91.8	95.5	97.4	88.5	70.6	52.7	34.8	16.9
100°	125.8	128.9	131.9	135.0	138.1	139.6	127.8	104.3	80.8	57.2	33.7
102.5°	176.4	178.4	180.5	182.5	184.6	185.6	186.6	188.7	190.7	192.8	194.8
105°	230.8	231.8	232.8	233.9	234.9	235.4	235.8	236.7	237.6	238.4	239.3
107.5°	280.7	281.2	281.7	282.2	282.7	283.0	283.6	284.8	286.0	287.2	288.4
110°	331.3	331.8	332.3	332.8	333.3	333.6	334.1	335.1	336.2	337.2	338.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	380.4	381.4	382.4	383.5	384.5	385.0	385.2	385.5	385.8	386.2	386.5
115°	431.0	431.5	432.0	432.5	433.0	433.3	433.2	433.0	432.9	432.7	432.5
117.5°	476.3	477.0	477.6	478.3	479.0	479.3	479.6	480.1	480.6	481.1	481.6
120°	522.3	523.0	523.6	524.3	525.0	525.3	525.2	525.1	524.9	524.8	524.6
122.5°	565.2	565.6	565.9	566.3	566.6	566.8	567.0	567.3	567.6	568.0	568.3
125°	605.9	606.6	607.2	607.9	608.6	608.9	608.7	608.4	608.1	607.7	607.4
127.5°	645.0	645.2	645.4	645.5	645.7	645.8	646.2	647.1	647.9	648.8	649.6
130°	682.6	682.8	682.9	683.1	683.2	683.3	683.6	684.1	684.6	685.1	685.6
132.5°	717.1	717.4	717.8	718.1	718.4	718.6	718.9	719.6	720.3	721.0	721.7
135°	751.6	751.4	751.2	751.1	750.9	750.8	751.1	751.8	752.5	753.2	753.9
137.5°	782.3	782.3	782.3	782.3	782.3	782.3	782.7	783.6	784.4	785.3	786.1
140°	812.2	812.5	812.9	813.2	813.5	813.7	813.9	814.2	814.5	814.9	815.2
142.5°	839.0	839.7	840.4	841.1	841.8	842.1	842.2	842.4	842.5	842.7	842.9
145°	866.6	867.1	867.6	868.1	868.6	868.9	868.9	868.9	868.9	868.9	868.9
147.5°	888.1	889.1	890.1	891.2	892.2	892.7	892.6	892.4	892.3	892.1	891.9
150°	911.9	912.6	913.2	913.9	914.6	914.9	914.8	914.7	914.5	914.4	914.2
152.5°	931.8	932.3	932.8	933.3	933.8	934.1	933.9	933.6	933.3	932.9	932.6
155°	950.2	950.4	950.6	950.7	950.9	951.0	950.7	950.2	949.7	949.2	948.7
157.5°	966.3	966.3	966.3	966.3	966.3	966.3	966.0	965.3	964.6	964.0	963.3
160°	980.1	979.6	979.1	978.6	978.1	977.8	977.7	977.6	977.4	977.3	977.1
162.5°	992.4	991.7	991.0	990.3	989.6	989.3	989.2	989.1	988.9	988.8	988.6
165°	1002.4	1001.5	1000.7	999.8	998.9	998.5	998.5	998.5	998.5	998.5	998.5
167.5°	1010.8	1010.0	1009.1	1008.3	1007.4	1007.0	1006.9	1006.7	1006.6	1006.4	1006.2
170°	1017.7	1016.7	1015.7	1014.6	1013.6	1013.1	1013.2	1013.4	1013.5	1013.7	1013.9
172.5°	1022.3	1021.3	1020.3	1019.2	1018.2	1017.7	1017.8	1018.0	1018.1	1018.3	1018.5
175°	1025.4	1024.4	1023.4	1022.3	1021.3	1020.8	1020.9	1021.0	1021.2	1021.3	1021.5
177.5°	1027.7	1026.5	1025.3	1024.1	1022.9	1022.3	1022.5	1022.8	1023.1	1023.5	1023.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

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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°	17.9	18.9	20.0	21.0	21.5	21.7	22.0	22.3	22.7	23.0	22.7
92.5°	17.1	18.1	19.2	20.2	20.7	20.7	20.7	20.7	20.7	20.7	20.7
95°	17.9	18.9	20.0	21.0	21.5	21.6	21.7	21.9	22.0	22.2	22.0
97.5°	17.7	18.6	19.4	20.3	20.7	20.8	21.0	21.1	21.3	21.5	21.3
100°	30.8	27.9	25.0	22.1	20.7	20.8	21.0	21.1	21.3	21.5	21.3
102.5°	156.4	118.1	79.7	41.4	22.2	22.2	22.2	22.2	22.2	22.2	22.2
105°	240.8	242.4	243.9	245.4	246.2	243.1	237.0	230.9	224.7	218.6	224.7
107.5°	289.2	290.1	290.9	291.8	292.2	292.5	293.2	293.9	294.6	295.3	294.6
110°	338.5	338.9	339.2	339.5	339.7	340.0	340.5	341.0	341.5	342.0	341.5

TEST NUMBER: P1001648

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	386.3	386.2	386.0	385.9	385.8	386.1	386.8	387.5	388.1	388.8	388.1
115°	432.9	433.2	433.6	433.9	434.1	434.1	434.1	434.1	434.1	434.1	434.1
117.5°	481.4	481.3	481.1	481.0	480.9	480.9	480.9	480.9	480.9	480.9	480.9
120°	524.9	525.3	525.6	525.9	526.1	525.9	525.6	525.3	524.9	524.6	524.9
122.5°	568.5	568.7	568.8	569.0	569.1	568.9	568.6	568.2	567.9	567.5	567.9
125°	607.9	608.4	608.9	609.4	609.7	609.8	610.0	610.1	610.3	610.5	610.3
127.5°	649.4	649.2	649.1	648.9	648.8	648.7	648.6	648.4	648.3	648.1	648.3
130°	685.8	686.0	686.1	686.3	686.4	686.4	686.4	686.4	686.4	686.4	686.4
132.5°	721.9	722.0	722.2	722.3	722.4	722.3	722.2	722.0	721.9	721.7	721.9
135°	754.2	754.6	754.9	755.2	755.4	755.6	755.9	756.3	756.6	757.0	756.6
137.5°	786.4	786.8	787.1	787.4	787.6	787.5	787.4	787.2	787.1	786.9	787.1
140°	815.7	816.2	816.7	817.2	817.5	817.6	817.8	817.9	818.1	818.3	818.1
142.5°	843.2	843.6	843.9	844.2	844.4	844.4	844.4	844.4	844.4	844.4	844.4
145°	869.1	869.3	869.4	869.6	869.7	869.9	870.2	870.5	870.9	871.2	870.9
147.5°	892.1	892.3	892.4	892.6	892.7	892.8	893.0	893.1	893.3	893.5	893.3
150°	914.2	914.2	914.2	914.2	914.2	914.3	914.4	914.6	914.7	914.9	914.7
152.5°	932.9	933.3	933.6	933.9	934.1	934.0	933.8	933.7	933.5	933.3	933.5
155°	949.4	950.1	950.8	951.5	951.8	951.5	951.0	950.5	950.0	949.5	950.0
157.5°	964.1	965.0	965.8	966.7	967.1	966.7	965.8	965.0	964.1	963.3	964.1
160°	978.1	979.1	980.2	981.2	981.7	981.2	980.2	979.1	978.1	977.1	978.1
162.5°	989.6	990.6	991.7	992.7	993.2	992.6	991.4	990.2	989.0	987.8	989.0
165°	999.9	1001.3	1002.6	1004.0	1004.7	1003.9	1002.4	1000.9	999.3	997.8	999.3
167.5°	1007.7	1009.3	1010.8	1012.3	1013.1	1012.2	1010.5	1008.8	1007.1	1005.4	1007.1
170°	1015.3	1016.6	1018.0	1019.3	1020.0	1019.1	1017.4	1015.7	1014.0	1012.3	1014.0
172.5°	1019.9	1021.2	1022.6	1023.9	1024.6	1023.7	1021.8	1019.9	1018.1	1016.2	1018.1
175°	1023.0	1024.6	1026.1	1027.6	1028.4	1027.4	1025.3	1023.3	1021.2	1019.2	1021.2
177.5°	1025.2	1026.6	1027.9	1029.3	1030.0	1029.0	1026.9	1024.9	1022.8	1020.8	1022.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

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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°	22.3	22.0	21.7	21.5	21.0	20.0	18.9	17.9	16.9	15.5	14.1
92.5°	20.7	20.7	20.7	20.7	20.2	19.2	18.1	17.1	16.1	14.7	13.4
95°	21.9	21.7	21.6	21.5	21.0	20.0	18.9	17.9	16.9	16.7	16.5
97.5°	21.1	21.0	20.8	20.7	20.3	19.4	18.6	17.7	16.9	34.8	52.7
100°	21.1	21.0	20.8	20.7	22.1	25.0	27.9	30.8	33.7	57.2	80.8
102.5°	22.2	22.2	22.2	22.2	41.4	79.7	118.1	156.4	194.8	192.8	190.7
105°	230.9	237.0	243.1	246.2	245.4	243.9	242.4	240.8	239.3	238.4	237.6
107.5°	293.9	293.2	292.5	292.2	291.8	290.9	290.1	289.2	288.4	287.2	286.0
110°	341.0	340.5	340.0	339.7	339.5	339.2	338.9	338.5	338.2	337.2	336.2

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	387.5	386.8	386.1	385.8	385.9	386.0	386.2	386.3	386.5	386.2	385.8
115°	434.1	434.1	434.1	434.1	433.9	433.6	433.2	432.9	432.5	432.7	432.9
117.5°	480.9	480.9	480.9	480.9	481.0	481.1	481.3	481.4	481.6	481.1	480.6
120°	525.3	525.6	525.9	526.1	525.9	525.6	525.3	524.9	524.6	524.8	524.9
122.5°	568.2	568.6	568.9	569.1	569.0	568.8	568.7	568.5	568.3	568.0	567.6
125°	610.1	610.0	609.8	609.7	609.4	608.9	608.4	607.9	607.4	607.7	608.1
127.5°	648.4	648.6	648.7	648.8	648.9	649.1	649.2	649.4	649.6	648.8	647.9
130°	686.4	686.4	686.4	686.4	686.3	686.1	686.0	685.8	685.6	685.1	684.6
132.5°	722.0	722.2	722.3	722.4	722.3	722.2	722.0	721.9	721.7	721.0	720.3
135°	756.3	755.9	755.6	755.4	755.2	754.9	754.6	754.2	753.9	753.2	752.5
137.5°	787.2	787.4	787.5	787.6	787.4	787.1	786.8	786.4	786.1	785.3	784.4
140°	817.9	817.8	817.6	817.5	817.2	816.7	816.2	815.7	815.2	814.9	814.5
142.5°	844.4	844.4	844.4	844.4	844.2	843.9	843.6	843.2	842.9	842.7	842.5
145°	870.5	870.2	869.9	869.7	869.6	869.4	869.3	869.1	868.9	868.9	868.9
147.5°	893.1	893.0	892.8	892.7	892.6	892.4	892.3	892.1	891.9	892.1	892.3
150°	914.6	914.4	914.3	914.2	914.2	914.2	914.2	914.2	914.2	914.4	914.5
152.5°	933.7	933.8	934.0	934.1	933.9	933.6	933.3	932.9	932.6	932.9	933.3
155°	950.5	951.0	951.5	951.8	951.5	950.8	950.1	949.4	948.7	949.2	949.7
157.5°	965.0	965.8	966.7	967.1	966.7	965.8	965.0	964.1	963.3	964.0	964.6
160°	979.1	980.2	981.2	981.7	981.2	980.2	979.1	978.1	977.1	977.3	977.4
162.5°	990.2	991.4	992.6	993.2	992.7	991.7	990.6	989.6	988.6	988.8	988.9
165°	1000.9	1002.4	1003.9	1004.7	1004.0	1002.6	1001.3	999.9	998.5	998.5	998.5
167.5°	1008.8	1010.5	1012.2	1013.1	1012.3	1010.8	1009.3	1007.7	1006.2	1006.4	1006.6
170°	1015.7	1017.4	1019.1	1020.0	1019.3	1018.0	1016.6	1015.3	1013.9	1013.7	1013.5
172.5°	1019.9	1021.8	1023.7	1024.6	1023.9	1022.6	1021.2	1019.9	1018.5	1018.3	1018.1
175°	1023.3	1025.3	1027.4	1028.4	1027.6	1026.1	1024.6	1023.0	1021.5	1021.3	1021.2
177.5°	1024.9	1026.9	1029.0	1030.0	1029.3	1027.9	1026.6	1025.2	1023.8	1023.5	1023.1
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

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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°	12.8	11.4	10.7	9.8	7.9	6.0	4.2	2.3	4.2	6.0	7.9
92.5°	12.0	10.7	10.0	10.2	10.5	10.8	11.2	11.5	11.2	10.8	10.5
95°	16.4	16.2	16.1	19.0	24.8	30.6	36.4	42.2	36.4	30.6	24.8
97.5°	70.6	88.5	97.4	95.5	91.8	88.0	84.3	80.5	84.3	88.0	91.8
100°	104.3	127.8	139.6	138.1	135.0	131.9	128.9	125.8	128.9	131.9	135.0
102.5°	188.7	186.6	185.6	184.6	182.5	180.5	178.4	176.4	178.4	180.5	182.5
105°	236.7	235.8	235.4	234.9	233.9	232.8	231.8	230.8	231.8	232.8	233.9
107.5°	284.8	283.6	283.0	282.7	282.2	281.7	281.2	280.7	281.2	281.7	282.2
110°	335.1	334.1	333.6	333.3	332.8	332.3	331.8	331.3	331.8	332.3	332.8



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	385.5	385.2	385.0	384.5	383.5	382.4	381.4	380.4	381.4	382.4	383.5
115°	433.0	433.2	433.3	433.0	432.5	432.0	431.5	431.0	431.5	432.0	432.5
117.5°	480.1	479.6	479.3	479.0	478.3	477.6	477.0	476.3	477.0	477.6	478.3
120°	525.1	525.2	525.3	525.0	524.3	523.6	523.0	522.3	523.0	523.6	524.3
122.5°	567.3	567.0	566.8	566.6	566.3	565.9	565.6	565.2	565.6	565.9	566.3
125°	608.4	608.7	608.9	608.6	607.9	607.2	606.6	605.9	606.6	607.2	607.9
127.5°	647.1	646.2	645.8	645.7	645.5	645.4	645.2	645.0	645.2	645.4	645.5
130°	684.1	683.6	683.3	683.2	683.1	682.9	682.8	682.6	682.8	682.9	683.1
132.5°	719.6	718.9	718.6	718.4	718.1	717.8	717.4	717.1	717.4	717.8	718.1
135°	751.8	751.1	750.8	750.9	751.1	751.2	751.4	751.6	751.4	751.2	751.1
137.5°	783.6	782.7	782.3	782.3	782.3	782.3	782.3	782.3	782.3	782.3	782.3
140°	814.2	813.9	813.7	813.5	813.2	812.9	812.5	812.2	812.5	812.9	813.2
142.5°	842.4	842.2	842.1	841.8	841.1	840.4	839.7	839.0	839.7	840.4	841.1
145°	868.9	868.9	868.9	868.6	868.1	867.6	867.1	866.6	867.1	867.6	868.1
147.5°	892.4	892.6	892.7	892.2	891.2	890.1	889.1	888.1	889.1	890.1	891.2
150°	914.7	914.8	914.9	914.6	913.9	913.2	912.6	911.9	912.6	913.2	913.9
152.5°	933.6	933.9	934.1	933.8	933.3	932.8	932.3	931.8	932.3	932.8	933.3
155°	950.2	950.7	951.0	950.9	950.7	950.6	950.4	950.2	950.4	950.6	950.7
157.5°	965.3	966.0	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3	966.3
160°	977.6	977.7	977.8	978.1	978.6	979.1	979.6	980.1	979.6	979.1	978.6
162.5°	989.1	989.2	989.3	989.6	990.3	991.0	991.7	992.4	991.7	991.0	990.3
165°	998.5	998.5	998.5	998.9	999.8	1000.7	1001.5	1002.4	1001.5	1000.7	999.8
167.5°	1006.7	1006.9	1007.0	1007.4	1008.3	1009.1	1010.0	1010.8	1010.0	1009.1	1008.3
170°	1013.4	1013.2	1013.1	1013.6	1014.6	1015.7	1016.7	1017.7	1016.7	1015.7	1014.6
172.5°	1018.0	1017.8	1017.7	1018.2	1019.2	1020.3	1021.3	1022.3	1021.3	1020.3	1019.2
175°	1021.0	1020.9	1020.8	1021.3	1022.3	1023.4	1024.4	1025.4	1024.4	1023.4	1022.3
177.5°	1022.8	1022.5	1022.3	1022.9	1024.1	1025.3	1026.5	1027.7	1026.5	1025.3	1024.1
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

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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°	9.8	10.7	11.4	12.8	14.1	15.5	16.9	17.9	18.9	20.0	21.0
92.5°	10.2	10.0	10.7	12.0	13.4	14.7	16.1	17.1	18.1	19.2	20.2
95°	19.0	16.1	16.2	16.4	16.5	16.7	16.9	17.9	18.9	20.0	21.0
97.5°	95.5	97.4	88.5	70.6	52.7	34.8	16.9	17.7	18.6	19.4	20.3
100°	138.1	139.6	127.8	104.3	80.8	57.2	33.7	30.8	27.9	25.0	22.1
102.5°	184.6	185.6	186.6	188.7	190.7	192.8	194.8	156.4	118.1	79.7	41.4
105°	234.9	235.4	235.8	236.7	237.6	238.4	239.3	240.8	242.4	243.9	245.4
107.5°	282.7	283.0	283.6	284.8	286.0	287.2	288.4	289.2	290.1	290.9	291.8
110°	333.3	333.6	334.1	335.1	336.2	337.2	338.2	338.5	338.9	339.2	339.5

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	384.5	385.0	385.2	385.5	385.8	386.2	386.5	386.3	386.2	386.0	385.9
115°	433.0	433.3	433.2	433.0	432.9	432.7	432.5	432.9	433.2	433.6	433.9
117.5°	479.0	479.3	479.6	480.1	480.6	481.1	481.6	481.4	481.3	481.1	481.0
120°	525.0	525.3	525.2	525.1	524.9	524.8	524.6	524.9	525.3	525.6	525.9
122.5°	566.6	566.8	567.0	567.3	567.6	568.0	568.3	568.5	568.7	568.8	569.0
125°	608.6	608.9	608.7	608.4	608.1	607.7	607.4	607.9	608.4	608.9	609.4
127.5°	645.7	645.8	646.2	647.1	647.9	648.8	649.6	649.4	649.2	649.1	648.9
130°	683.2	683.3	683.6	684.1	684.6	685.1	685.6	685.8	686.0	686.1	686.3
132.5°	718.4	718.6	718.9	719.6	720.3	721.0	721.7	721.9	722.0	722.2	722.3
135°	750.9	750.8	751.1	751.8	752.5	753.2	753.9	754.2	754.6	754.9	755.2
137.5°	782.3	782.3	782.7	783.6	784.4	785.3	786.1	786.4	786.8	787.1	787.4
140°	813.5	813.7	813.9	814.2	814.5	814.9	815.2	815.7	816.2	816.7	817.2
142.5°	841.8	842.1	842.2	842.4	842.5	842.7	842.9	843.2	843.6	843.9	844.2
145°	868.6	868.9	868.9	868.9	868.9	868.9	868.9	869.1	869.3	869.4	869.6
147.5°	892.2	892.7	892.6	892.4	892.3	892.1	891.9	892.1	892.3	892.4	892.6
150°	914.6	914.9	914.8	914.7	914.5	914.4	914.2	914.2	914.2	914.2	914.2
152.5°	933.8	934.1	933.9	933.6	933.3	932.9	932.6	932.9	933.3	933.6	933.9
155°	950.9	951.0	950.7	950.2	949.7	949.2	948.7	949.4	950.1	950.8	951.5
157.5°	966.3	966.3	966.0	965.3	964.6	964.0	963.3	964.1	965.0	965.8	966.7
160°	978.1	977.8	977.7	977.6	977.4	977.3	977.1	978.1	979.1	980.2	981.2
162.5°	989.6	989.3	989.2	989.1	988.9	988.8	988.6	989.6	990.6	991.7	992.7
165°	998.9	998.5	998.5	998.5	998.5	998.5	998.5	999.9	1001.3	1002.6	1004.0
167.5°	1007.4	1007.0	1006.9	1006.7	1006.6	1006.4	1006.2	1007.7	1009.3	1010.8	1012.3
170°	1013.6	1013.1	1013.2	1013.4	1013.5	1013.7	1013.9	1015.3	1016.6	1018.0	1019.3
172.5°	1018.2	1017.7	1017.8	1018.0	1018.1	1018.3	1018.5	1019.9	1021.2	1022.6	1023.9
175°	1021.3	1020.8	1020.9	1021.0	1021.2	1021.3	1021.5	1023.0	1024.6	1026.1	1027.6
177.5°	1022.9	1022.3	1022.5	1022.8	1023.1	1023.5	1023.8	1025.2	1026.6	1027.9	1029.3
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

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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°	21.5	21.7	22.0	22.3	22.7	23.0	22.7	22.3	22.0	21.7	21.5
92.5°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
95°	21.5	21.6	21.7	21.9	22.0	22.2	22.0	21.9	21.7	21.6	21.5
97.5°	20.7	20.8	21.0	21.1	21.3	21.5	21.3	21.1	21.0	20.8	20.7
100°	20.7	20.8	21.0	21.1	21.3	21.5	21.3	21.1	21.0	20.8	20.7
102.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
105°	246.2	243.1	237.0	230.9	224.7	218.6	224.7	230.9	237.0	243.1	246.2
107.5°	292.2	292.5	293.2	293.9	294.6	295.3	294.6	293.9	293.2	292.5	292.2
110°	339.7	340.0	340.5	341.0	341.5	342.0	341.5	341.0	340.5	340.0	339.7

TEST NUMBER: P1001648

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	385.8	386.1	386.8	387.5	388.1	388.8	388.1	387.5	386.8	386.1	385.8
115°	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1	434.1
117.5°	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9	480.9
120°	526.1	525.9	525.6	525.3	524.9	524.6	524.9	525.3	525.6	525.9	526.1
122.5°	569.1	568.9	568.6	568.2	567.9	567.5	567.9	568.2	568.6	568.9	569.1
125°	609.7	609.8	610.0	610.1	610.3	610.5	610.3	610.1	610.0	609.8	609.7
127.5°	648.8	648.7	648.6	648.4	648.3	648.1	648.3	648.4	648.6	648.7	648.8
130°	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4	686.4
132.5°	722.4	722.3	722.2	722.0	721.9	721.7	721.9	722.0	722.2	722.3	722.4
135°	755.4	755.6	755.9	756.3	756.6	757.0	756.6	756.3	755.9	755.6	755.4
137.5°	787.6	787.5	787.4	787.2	787.1	786.9	787.1	787.2	787.4	787.5	787.6
140°	817.5	817.6	817.8	817.9	818.1	818.3	818.1	817.9	817.8	817.6	817.5
142.5°	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4	844.4
145°	869.7	869.9	870.2	870.5	870.9	871.2	870.9	870.5	870.2	869.9	869.7
147.5°	892.7	892.8	893.0	893.1	893.3	893.5	893.3	893.1	893.0	892.8	892.7
150°	914.2	914.3	914.4	914.6	914.7	914.9	914.7	914.6	914.4	914.3	914.2
152.5°	934.1	934.0	933.8	933.7	933.5	933.3	933.5	933.7	933.8	934.0	934.1
155°	951.8	951.5	951.0	950.5	950.0	949.5	950.0	950.5	951.0	951.5	951.8
157.5°	967.1	966.7	965.8	965.0	964.1	963.3	964.1	965.0	965.8	966.7	967.1
160°	981.7	981.2	980.2	979.1	978.1	977.1	978.1	979.1	980.2	981.2	981.7
162.5°	993.2	992.6	991.4	990.2	989.0	987.8	989.0	990.2	991.4	992.6	993.2
165°	1004.7	1003.9	1002.4	1000.9	999.3	997.8	999.3	1000.9	1002.4	1003.9	1004.7
167.5°	1013.1	1012.2	1010.5	1008.8	1007.1	1005.4	1007.1	1008.8	1010.5	1012.2	1013.1
170°	1020.0	1019.1	1017.4	1015.7	1014.0	1012.3	1014.0	1015.7	1017.4	1019.1	1020.0
172.5°	1024.6	1023.7	1021.8	1019.9	1018.1	1016.2	1018.1	1019.9	1021.8	1023.7	1024.6
175°	1028.4	1027.4	1025.3	1023.3	1021.2	1019.2	1021.2	1023.3	1025.3	1027.4	1028.4
177.5°	1030.0	1029.0	1026.9	1024.9	1022.8	1020.8	1022.8	1024.9	1026.9	1029.0	1030.0
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001648

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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°	21.0	20.0	18.9	17.9	16.9	15.5	14.1	12.8	11.4	10.7	9.8
92.5°	20.2	19.2	18.1	17.1	16.1	14.7	13.4	12.0	10.7	10.0	10.2
95°	21.0	20.0	18.9	17.9	16.9	16.7	16.5	16.4	16.2	16.1	19.0
97.5°	20.3	19.4	18.6	17.7	16.9	34.8	52.7	70.6	88.5	97.4	95.5
100°	22.1	25.0	27.9	30.8	33.7	57.2	80.8	104.3	127.8	139.6	138.1
102.5°	41.4	79.7	118.1	156.4	194.8	192.8	190.7	188.7	186.6	185.6	184.6
105°	245.4	243.9	242.4	240.8	239.3	238.4	237.6	236.7	235.8	235.4	234.9
107.5°	291.8	290.9	290.1	289.2	288.4	287.2	286.0	284.8	283.6	283.0	282.7
110°	339.5	339.2	338.9	338.5	338.2	337.2	336.2	335.1	334.1	333.6	333.3

TEST NUMBER: P1001648

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	385.9	386.0	386.2	386.3	386.5	386.2	385.8	385.5	385.2	385.0	384.5
115°	433.9	433.6	433.2	432.9	432.5	432.7	432.9	433.0	433.2	433.3	433.0
117.5°	481.0	481.1	481.3	481.4	481.6	481.1	480.6	480.1	479.6	479.3	479.0
120°	525.9	525.6	525.3	524.9	524.6	524.8	524.9	525.1	525.2	525.3	525.0
122.5°	569.0	568.8	568.7	568.5	568.3	568.0	567.6	567.3	567.0	566.8	566.6
125°	609.4	608.9	608.4	607.9	607.4	607.7	608.1	608.4	608.7	608.9	608.6
127.5°	648.9	649.1	649.2	649.4	649.6	648.8	647.9	647.1	646.2	645.8	645.7
130°	686.3	686.1	686.0	685.8	685.6	685.1	684.6	684.1	683.6	683.3	683.2
132.5°	722.3	722.2	722.0	721.9	721.7	721.0	720.3	719.6	718.9	718.6	718.4
135°	755.2	754.9	754.6	754.2	753.9	753.2	752.5	751.8	751.1	750.8	750.9
137.5°	787.4	787.1	786.8	786.4	786.1	785.3	784.4	783.6	782.7	782.3	782.3
140°	817.2	816.7	816.2	815.7	815.2	814.9	814.5	814.2	813.9	813.7	813.5
142.5°	844.2	843.9	843.6	843.2	842.9	842.7	842.5	842.4	842.2	842.1	841.8
145°	869.6	869.4	869.3	869.1	868.9	868.9	868.9	868.9	868.9	868.9	868.6
147.5°	892.6	892.4	892.3	892.1	891.9	892.1	892.3	892.4	892.6	892.7	892.2
150°	914.2	914.2	914.2	914.2	914.2	914.4	914.5	914.7	914.8	914.9	914.6
152.5°	933.9	933.6	933.3	932.9	932.6	932.9	933.3	933.6	933.9	934.1	933.8
155°	951.5	950.8	950.1	949.4	948.7	949.2	949.7	950.2	950.7	951.0	950.9
157.5°	966.7	965.8	965.0	964.1	963.3	964.0	964.6	965.3	966.0	966.3	966.3
160°	981.2	980.2	979.1	978.1	977.1	977.3	977.4	977.6	977.7	977.8	978.1
162.5°	992.7	991.7	990.6	989.6	988.6	988.8	988.9	989.1	989.2	989.3	989.6
165°	1004.0	1002.6	1001.3	999.9	998.5	998.5	998.5	998.5	998.5	998.5	998.9
167.5°	1012.3	1010.8	1009.3	1007.7	1006.2	1006.4	1006.6	1006.7	1006.9	1007.0	1007.4
170°	1019.3	1018.0	1016.6	1015.3	1013.9	1013.7	1013.5	1013.4	1013.2	1013.1	1013.6
172.5°	1023.9	1022.6	1021.2	1019.9	1018.5	1018.3	1018.1	1018.0	1017.8	1017.7	1018.2
175°	1027.6	1026.1	1024.6	1023.0	1021.5	1021.3	1021.2	1021.0	1020.9	1020.8	1021.3
177.5°	1029.3	1027.9	1026.6	1025.2	1023.8	1023.5	1023.1	1022.8	1022.5	1022.3	1022.9
180°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4

TEST NUMBER: P1001648

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-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°	7.9	6.0	4.2	2.3
92.5°	10.5	10.8	11.2	11.5
95°	24.8	30.6	36.4	42.2
97.5°	91.8	88.0	84.3	80.5
100°	135.0	131.9	128.9	125.8
102.5°	182.5	180.5	178.4	176.4
105°	233.9	232.8	231.8	230.8
107.5°	282.2	281.7	281.2	280.7
110°	332.8	332.3	331.8	331.3

TEST NUMBER: P1001648

CATALOG NUMBER: SA4XXDIP-B575D810UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	383.5	382.4	381.4	380.4
115°	432.5	432.0	431.5	431.0
117.5°	478.3	477.6	477.0	476.3
120°	524.3	523.6	523.0	522.3
122.5°	566.3	565.9	565.6	565.2
125°	607.9	607.2	606.6	605.9
127.5°	645.5	645.4	645.2	645.0
130°	683.1	682.9	682.8	682.6
132.5°	718.1	717.8	717.4	717.1
135°	751.1	751.2	751.4	751.6
137.5°	782.3	782.3	782.3	782.3
140°	813.2	812.9	812.5	812.2
142.5°	841.1	840.4	839.7	839.0
145°	868.1	867.6	867.1	866.6
147.5°	891.2	890.1	889.1	888.1
150°	913.9	913.2	912.6	911.9
152.5°	933.3	932.8	932.3	931.8
155°	950.7	950.6	950.4	950.2
157.5°	966.3	966.3	966.3	966.3
160°	978.6	979.1	979.6	980.1
162.5°	990.3	991.0	991.7	992.4
165°	999.8	1000.7	1001.5	1002.4
167.5°	1008.3	1009.1	1010.0	1010.8
170°	1014.6	1015.7	1016.7	1017.7
172.5°	1019.2	1020.3	1021.3	1022.3
175°	1022.3	1023.4	1024.4	1025.4
177.5°	1024.1	1025.3	1026.5	1027.7
180°	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)