

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: P999474

Luminaire Tested: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999474
REPORT IS A COMBINATION OF REPORTS P988025 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

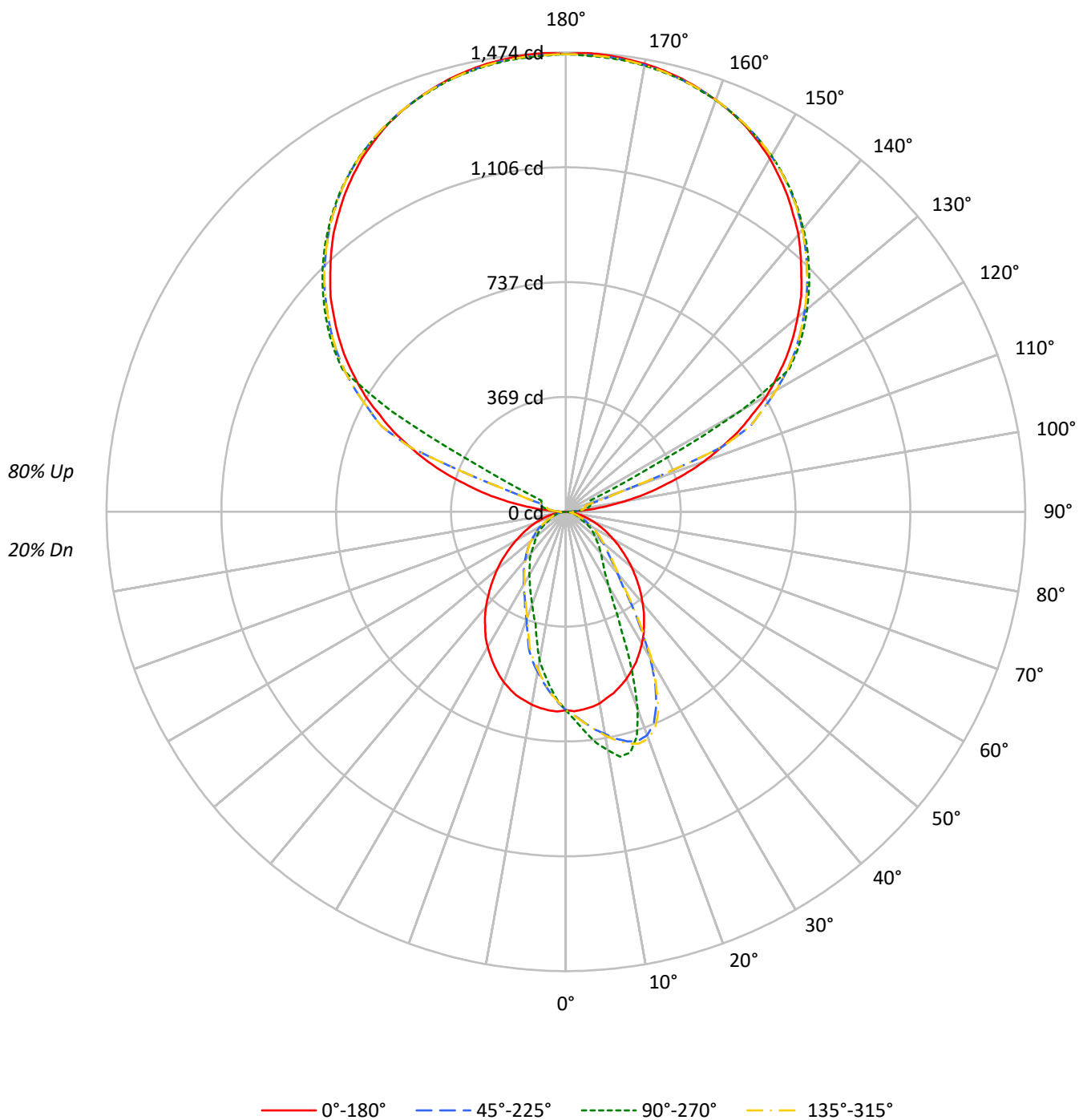
Lumens per Lamp: N/A
Luminaire Lumens: 5407.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	29	29	29
1	91	87	84	81	81	77	75	72	59	57	55	42	41	40	26	25	25	25	25	18
2	83	77	71	66	74	68	63	59	52	49	46	37	35	34	23	22	21	21	21	15
3	76	68	61	56	67	60	55	50	46	42	39	33	31	29	21	20	19	19	19	13
4	70	60	53	47	62	53	47	43	41	37	34	30	27	25	19	18	16	16	16	12
5	64	53	46	40	57	48	41	37	37	32	29	27	24	22	17	16	14	14	14	11
6	59	48	40	35	52	43	36	32	33	29	25	24	21	19	16	14	13	13	13	10
7	55	43	36	31	48	39	32	28	30	26	22	22	19	17	14	13	12	12	12	9
8	51	39	32	27	45	35	29	25	27	23	20	20	17	15	13	12	10	10	10	8
9	47	36	29	24	42	32	26	22	25	21	18	18	16	14	12	11	10	10	10	7
10	44	33	26	21	39	29	23	20	23	19	16	17	14	12	11	10	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10075	10075	10075	10075
5°	10100	10702	10135	8550
10°	9987	11313	10059	7060
15°	9772	11315	9936	5304
20°	9510	9353	9717	4376
25°	9195	5844	9394	3723
30°	8791	3743	9031	3205
35°	8299	2876	8569	2743
40°	7754	2417	8083	2399
45°	7168	2058	7467	2014
50°	6569	1749	6875	1742
55°	5905	1519	6225	1500
60°	5316	1159	5599	1145
65°	4764	871	5048	989
70°	4157	697	4482	807
75°	3513	534	3838	609
80°	2786	364	3002	399
85°	1935	188	2119	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 9218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	1.1
10°-20°	168.5	3.1
20°-30°	216.9	4.0
30°-40°	205.8	3.8
40°-50°	176.3	3.3
50°-60°	134.3	2.5
60°-70°	84.7	1.6
70°-80°	42.3	0.8
80°-90°	13.4	0.2
90°-100°	48.4	0.9
100°-110°	180.5	3.3
110°-120°	478.7	8.9
120°-130°	793.9	14.7
130°-140°	843.3	15.6
140°-150°	783.8	14.5
150°-160°	630.1	11.7
160°-170°	406.0	7.5
170°-180°	139.7	2.6
0°-30°	445.8	8.2
0°-40°	651.5	12.1
0°-60°	962.2	17.8
0°-90°	1102.6	20.4
90°-120°	707.6	13.1
90°-150°	3128.5	57.9
90°-180°	4304.0	79.6
0°-180°	5407.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	636	636	636	636	636	
5°	637	708	639	566	637	60
15°	600	799	610	375	600	169
25°	533	426	544	272	533	245
35°	437	210	451	200	437	273
45°	328	146	342	143	328	253
55°	222	101	234	100	222	200
65°	134	53	142	60	134	133
75°	63	28	69	32	63	68
85°	14	8	15	8	14	16
90°	1	29	1	29	1	5
95°	69	46	69	46	69	82
105°	323	81	323	81	323	345
115°	611	87	611	87	611	601
125°	864	908	864	908	864	770
135°	1069	1104	1069	1104	1069	826
145°	1240	1259	1240	1259	1240	775
155°	1365	1366	1365	1366	1365	629
165°	1438	1435	1438	1435	1438	406
175°	1471	1463	1471	1463	1471	140
180°	1468	1468	1468	1468	1468	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	640.5	643.2	644.5	646.3	650.2	652.9	656.9	657.8	657.3	659.1	654.2
5°	637.0	642.7	648.0	652.5	659.5	664.0	668.8	674.6	675.9	682.5	678.6
7.5°	632.1	640.5	648.0	656.9	667.5	673.2	680.8	689.6	693.6	701.6	703.8
10°	624.1	636.1	648.9	658.2	672.8	683.0	690.1	704.2	713.5	725.4	723.7
12.5°	611.3	626.8	644.0	659.5	678.6	685.2	698.5	713.1	725.0	736.1	745.8
15°	600.3	618.0	637.0	656.0	677.7	690.1	703.3	722.3	735.2	754.6	763.0
17.5°	585.2	607.8	630.3	651.6	677.2	691.4	707.7	726.3	745.3	763.9	770.6
20°	569.7	594.1	618.4	647.1	676.3	690.1	706.9	729.9	748.4	763.0	763.0
22.5°	551.2	580.8	608.7	636.1	667.9	687.8	705.1	732.1	745.3	748.4	736.5
25°	532.6	562.2	592.7	626.8	663.1	680.8	700.2	725.4	729.9	717.5	686.5
27.5°	510.5	543.6	578.1	614.9	652.9	675.0	692.7	709.5	701.1	667.9	619.7
30°	487.9	523.7	562.7	597.6	643.6	664.0	679.0	683.9	657.3	603.4	541.0
32.5°	464.5	499.4	540.5	582.6	629.0	648.5	658.2	645.4	596.7	528.6	452.5
35°	437.0	476.4	519.3	563.1	609.1	623.7	629.5	598.0	535.7	447.6	372.0
37.5°	412.3	451.6	497.6	542.3	587.0	594.9	589.2	540.1	460.9	373.8	299.9
40°	383.1	425.1	470.2	520.2	556.9	559.1	545.0	481.3	383.1	301.2	255.7
42.5°	356.1	398.5	443.7	494.5	522.4	514.9	495.9	412.3	319.8	259.7	222.9
45°	328.2	368.5	417.1	462.2	482.2	464.5	435.7	346.8	268.5	223.4	195.1
47.5°	301.2	338.8	387.0	430.4	433.9	414.0	380.0	290.6	232.7	196.4	173.4
50°	274.7	312.3	357.4	393.2	389.7	362.3	323.8	252.6	202.1	173.4	154.4
52.5°	248.2	282.2	326.0	354.3	339.3	312.7	274.7	214.1	176.5	151.3	136.7
55°	221.6	253.5	291.1	314.5	290.6	260.1	233.1	183.6	153.0	132.7	121.6
57.5°	199.5	224.7	259.2	273.4	244.6	220.7	197.3	157.9	132.7	118.1	105.3
60°	175.2	198.2	226.5	234.9	205.2	185.8	165.9	133.6	113.7	100.9	92.4
62.5°	154.4	173.4	195.1	195.1	169.0	154.4	139.3	111.9	95.5	85.4	81.4
65°	134.0	147.7	163.2	161.5	139.3	126.5	114.6	92.4	80.1	73.0	69.0
67.5°	114.1	124.7	134.9	128.7	112.8	101.7	90.7	74.8	66.4	61.5	56.2
70°	96.0	104.4	109.7	104.0	88.0	78.7	70.8	60.2	53.5	47.3	44.2
72.5°	80.5	84.0	85.8	78.7	65.5	60.2	54.4	46.9	41.1	38.0	37.2
75°	62.8	65.9	64.6	59.3	48.2	44.2	39.8	34.5	33.2	31.4	30.5
77.5°	49.1	49.1	46.9	42.0	34.5	31.4	29.6	27.0	25.7	25.2	24.3
80°	34.9	34.5	33.2	27.9	23.4	21.7	21.7	19.9	19.5	18.6	18.6
82.5°	23.0	23.0	21.2	16.8	15.5	15.0	14.6	13.7	13.7	13.3	13.3
85°	13.7	12.8	10.6	9.3	8.8	8.8	8.4	8.0	8.4	8.0	8.0
87.5°	6.2	4.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
90°	1.1	3.7	6.3	8.8	11.4	12.7	13.6	15.5	17.4	19.3	21.2
92.5°	26.6	25.6	24.7	23.7	22.8	22.3	22.7	23.4	24.1	24.8	25.5
95°	69.1	61.3	53.5	45.7	37.9	34.0	34.8	36.5	38.1	39.8	41.4
97.5°	124.3	104.9	85.6	66.2	46.9	37.2	39.1	42.9	46.6	50.4	54.2
100°	188.0	155.7	123.3	91.0	58.7	42.5	44.5	48.5	52.6	56.6	60.6
102.5°	258.2	257.7	257.2	256.7	256.2	256.0	234.5	191.6	148.6	105.7	62.7
105°	323.0	330.1	337.1	344.2	351.3	354.8	322.6	258.1	193.7	129.2	64.8
107.5°	398.4	404.3	410.2	416.1	422.0	425.0	385.2	305.6	226.1	146.5	66.9
110°	470.6	475.6	480.6	485.5	490.5	493.0	458.9	390.6	322.4	254.1	185.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	538.6	542.9	547.1	551.4	555.7	557.8	555.8	551.8	547.7	543.7	539.7
115°	610.9	614.9	618.9	622.9	626.9	628.9	631.9	637.8	643.7	649.6	655.5
117.5°	673.6	678.3	683.0	687.7	692.4	694.8	696.8	700.8	704.9	708.9	712.9
120°	743.7	747.2	750.8	754.3	757.8	759.6	761.7	766.0	770.3	774.5	778.8
122.5°	803.2	807.0	810.8	814.5	818.3	820.2	822.6	827.3	832.0	836.7	841.4
125°	863.7	866.8	869.9	873.0	876.1	877.6	879.8	884.3	888.8	893.2	897.7
127.5°	919.0	922.3	925.6	928.9	932.2	933.9	935.7	939.2	942.7	946.3	949.8
130°	971.0	974.8	978.6	982.3	986.1	988.0	989.3	991.9	994.5	997.1	999.7
132.5°	1024.2	1027.3	1030.3	1033.4	1036.5	1038.0	1039.3	1041.9	1044.5	1047.1	1049.7
135°	1068.8	1072.6	1076.4	1080.1	1083.9	1085.8	1086.9	1089.0	1091.1	1093.2	1095.3
137.5°	1115.5	1118.3	1121.2	1124.0	1126.9	1128.3	1129.5	1131.8	1134.2	1136.5	1138.9
140°	1161.2	1163.1	1165.0	1166.9	1168.8	1169.7	1171.0	1173.6	1176.2	1178.8	1181.4
142.5°	1199.5	1201.1	1202.8	1204.4	1206.1	1206.9	1208.4	1211.5	1214.6	1217.6	1220.7
145°	1239.8	1239.6	1239.4	1239.1	1238.9	1238.8	1240.8	1244.8	1248.8	1252.8	1256.8
147.5°	1274.9	1274.2	1273.5	1272.8	1272.1	1271.7	1273.7	1277.7	1281.8	1285.8	1289.8
150°	1308.9	1307.3	1305.6	1304.0	1302.3	1301.5	1303.4	1307.2	1310.9	1314.7	1318.5
152.5°	1337.6	1335.7	1333.8	1331.9	1330.0	1329.1	1330.9	1334.4	1337.9	1341.5	1345.0
155°	1365.2	1363.1	1360.9	1358.8	1356.7	1355.6	1357.0	1359.9	1362.7	1365.6	1368.4
157.5°	1387.5	1385.6	1383.7	1381.8	1379.9	1379.0	1380.1	1382.2	1384.3	1386.5	1388.6
160°	1406.6	1405.2	1403.8	1402.4	1401.0	1400.3	1401.0	1402.4	1403.8	1405.2	1406.6
162.5°	1423.6	1422.2	1420.8	1419.4	1418.0	1417.3	1417.9	1419.1	1420.2	1421.4	1422.6
165°	1438.5	1437.1	1435.7	1434.2	1432.8	1432.1	1432.5	1433.2	1433.9	1434.6	1435.3
167.5°	1450.2	1448.8	1447.4	1445.9	1444.5	1443.8	1444.2	1444.9	1445.6	1446.3	1447.0
170°	1459.8	1458.4	1457.0	1455.5	1454.1	1453.4	1453.6	1454.1	1454.6	1455.0	1455.5
172.5°	1466.1	1464.7	1463.3	1461.9	1460.5	1459.8	1460.0	1460.5	1461.0	1461.4	1461.9
175°	1471.4	1469.8	1468.1	1466.5	1464.8	1464.0	1464.2	1464.7	1465.2	1465.6	1466.1
177.5°	1473.6	1471.9	1470.3	1468.6	1466.9	1466.1	1466.2	1466.5	1466.7	1467.0	1467.2
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	659.1	660.0	661.3	667.5	668.4	670.1	669.3	669.3	669.7	668.8	669.3
5°	687.4	688.7	695.4	702.9	704.6	702.9	705.1	708.2	708.2	708.2	707.3
7.5°	713.9	718.8	726.3	737.4	739.6	741.8	745.8	743.1	744.0	748.0	746.7
10°	739.6	746.7	755.1	764.4	769.2	772.3	774.1	778.1	787.4	776.8	780.7
12.5°	763.9	774.1	782.9	793.1	796.7	800.6	802.0	805.5	805.5	805.1	808.2
15°	779.8	789.1	797.1	803.7	804.6	803.7	802.8	803.3	804.6	799.3	802.4
17.5°	783.4	784.3	786.9	784.3	784.7	775.4	770.1	768.8	756.4	756.8	767.0
20°	766.1	751.1	747.1	732.5	723.7	699.8	698.9	692.3	666.2	674.1	672.4
22.5°	718.8	693.1	659.1	642.3	633.9	608.7	589.2	575.5	566.2	556.9	552.9
25°	656.4	614.9	566.6	533.5	528.6	505.2	469.3	452.5	432.6	426.4	437.0
27.5°	575.9	522.0	467.6	416.7	407.4	386.2	368.0	356.1	333.1	331.8	332.6
30°	466.7	412.3	366.7	333.5	310.5	300.8	288.8	280.0	270.7	274.3	275.1
32.5°	383.5	331.8	289.3	271.6	261.0	254.8	244.6	238.9	234.9	233.6	233.1
35°	304.8	270.3	251.2	234.0	227.8	223.4	215.9	213.2	209.7	210.1	210.1
37.5°	261.0	232.2	218.1	209.2	203.5	201.3	196.4	193.7	191.5	190.6	192.0
40°	225.2	205.2	196.4	188.4	183.6	182.7	180.0	176.9	174.3	174.7	176.1
42.5°	199.1	187.6	176.9	170.7	167.2	165.9	163.7	161.5	161.5	160.1	159.7
45°	178.3	169.0	160.1	154.4	152.2	150.4	147.7	147.3	145.5	146.0	146.4
47.5°	159.7	152.2	145.5	139.8	137.6	137.1	134.5	132.7	132.7	132.3	131.8
50°	142.9	135.4	129.6	126.5	123.4	122.5	122.1	121.6	120.8	120.8	121.2
52.5°	129.2	121.6	117.2	114.6	112.8	111.9	111.9	111.5	111.5	111.5	111.0
55°	114.1	107.9	104.4	103.5	102.6	102.2	101.7	100.9	100.4	101.3	100.4
57.5°	100.0	97.8	94.7	93.8	91.6	91.6	90.2	89.4	88.5	89.4	89.4
60°	88.9	85.8	84.0	81.4	79.6	77.9	75.6	75.2	74.3	73.9	73.4
62.5°	77.4	74.8	70.3	66.4	63.7	61.9	61.0	60.6	60.6	60.2	60.2
65°	64.6	58.4	56.2	54.9	54.4	54.0	53.1	52.6	53.1	52.6	53.1
67.5°	50.4	49.5	48.2	47.3	46.9	46.4	46.4	46.0	46.0	46.0	46.0
70°	43.8	41.6	41.1	40.3	40.3	39.8	39.8	39.8	39.8	39.4	40.3
72.5°	36.3	34.9	34.5	34.1	34.1	34.1	33.6	33.6	33.6	33.2	33.6
75°	29.6	29.2	28.3	28.3	27.9	28.3	27.9	27.9	27.4	27.9	27.9
77.5°	23.9	23.4	23.0	23.0	22.6	22.6	22.6	22.6	22.6	22.6	23.0
80°	18.1	17.7	17.3	17.7	17.3	17.7	17.3	17.3	17.7	17.3	17.3
82.5°	13.3	12.8	12.8	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
85°	8.0	7.5	7.5	8.0	7.5	8.0	7.5	7.5	7.5	8.0	8.0
87.5°	3.5	4.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
90°	22.4	23.6	24.8	26.0	26.6	26.8	27.3	27.8	28.2	28.7	28.2
92.5°	26.0	26.4	26.9	27.4	27.6	27.7	28.0	28.2	28.5	28.7	28.5
95°	42.6	43.8	44.9	46.1	46.7	46.6	46.4	46.1	45.9	45.7	45.9
97.5°	54.9	55.6	56.3	57.0	57.4	57.5	57.7	58.0	58.2	58.4	58.2
100°	62.5	64.4	66.3	68.2	69.1	69.3	69.8	70.3	70.7	71.2	70.7
102.5°	65.3	67.9	70.5	73.1	74.4	74.8	75.5	76.2	76.9	77.6	76.9
105°	67.4	70.0	72.6	75.2	76.5	77.0	77.9	78.8	79.8	80.7	79.8
107.5°	69.5	72.1	74.7	77.3	78.6	79.1	80.0	81.0	81.9	82.9	81.9
110°	162.3	138.7	115.1	91.5	79.7	80.2	81.1	82.0	83.0	83.9	83.0

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	437.9	336.2	234.4	132.7	81.8	82.2	82.9	83.6	84.3	85.0	84.3
115°	546.2	436.9	327.6	218.3	163.6	155.1	138.1	121.1	104.1	87.1	104.1
117.5°	679.1	645.4	611.6	577.9	561.0	530.1	468.2	406.3	344.5	282.6	344.5
120°	781.6	784.4	787.3	790.1	791.5	775.6	743.7	711.8	680.0	648.1	680.0
122.5°	842.8	844.2	845.7	847.1	847.8	847.9	848.2	848.4	848.7	848.9	848.7
125°	899.4	901.0	902.7	904.4	905.2	905.6	906.3	907.0	907.7	908.4	907.7
127.5°	952.2	954.5	956.9	959.2	960.4	960.5	960.8	961.0	961.3	961.5	961.3
130°	1002.3	1004.9	1007.5	1010.1	1011.4	1011.3	1011.1	1010.8	1010.6	1010.4	1010.6
132.5°	1051.8	1053.9	1056.0	1058.1	1059.2	1059.1	1058.9	1058.6	1058.4	1058.2	1058.4
135°	1097.7	1100.1	1102.4	1104.8	1106.0	1105.8	1105.3	1104.8	1104.3	1103.8	1104.3
137.5°	1141.3	1143.6	1146.0	1148.3	1149.5	1149.1	1148.4	1147.7	1147.0	1146.3	1147.0
140°	1183.5	1185.7	1187.8	1189.9	1191.0	1190.4	1189.2	1188.1	1186.9	1185.7	1186.9
142.5°	1222.6	1224.5	1226.4	1228.3	1229.2	1228.6	1227.4	1226.3	1225.1	1223.9	1225.1
145°	1258.5	1260.1	1261.8	1263.5	1264.3	1263.7	1262.5	1261.4	1260.2	1259.0	1260.2
147.5°	1291.0	1292.2	1293.3	1294.5	1295.1	1294.6	1293.7	1292.7	1291.8	1290.8	1291.8
150°	1319.9	1321.3	1322.7	1324.1	1324.8	1324.2	1323.0	1321.9	1320.7	1319.5	1320.7
152.5°	1346.4	1347.8	1349.3	1350.7	1351.4	1350.6	1348.9	1347.3	1345.6	1344.0	1345.6
155°	1369.8	1371.2	1372.7	1374.1	1374.8	1373.9	1372.0	1370.1	1368.2	1366.3	1368.2
157.5°	1390.2	1391.9	1393.5	1395.2	1396.0	1395.1	1393.2	1391.3	1389.4	1387.5	1389.4
160°	1408.0	1409.4	1410.9	1412.3	1413.0	1412.2	1410.5	1408.9	1407.2	1405.6	1407.2
162.5°	1424.2	1425.9	1427.5	1429.2	1430.0	1428.9	1426.8	1424.7	1422.5	1420.4	1422.5
165°	1437.0	1438.6	1440.3	1442.0	1442.8	1442.0	1440.3	1438.6	1437.0	1435.3	1437.0
167.5°	1448.6	1450.3	1451.9	1453.6	1454.4	1453.3	1451.2	1449.1	1447.0	1444.9	1447.0
170°	1457.1	1458.8	1460.4	1462.1	1462.9	1461.8	1459.7	1457.6	1455.5	1453.4	1455.5
172.5°	1463.5	1465.2	1466.8	1468.5	1469.3	1468.2	1466.1	1464.0	1461.9	1459.8	1461.9
175°	1467.8	1469.4	1471.1	1472.8	1473.6	1472.4	1470.0	1467.7	1465.3	1462.9	1465.3
177.5°	1468.8	1470.5	1472.1	1473.8	1474.6	1473.5	1471.4	1469.3	1467.2	1465.1	1467.2
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	671.0	667.9	667.0	667.9	667.0	667.5	664.4	652.9	656.0	651.1	653.8
5°	709.1	706.4	700.7	699.8	698.9	698.0	693.6	683.4	679.4	672.8	672.4
7.5°	745.3	745.3	740.9	737.8	733.8	730.7	725.0	710.0	703.8	695.8	691.4
10°	781.2	769.7	774.5	771.4	761.7	759.9	749.3	740.5	728.5	720.6	713.5
12.5°	806.8	803.3	798.9	796.2	793.6	787.8	780.7	758.2	752.0	736.1	728.1
15°	805.9	803.7	805.1	805.1	804.2	802.8	797.1	780.7	770.1	754.6	740.9
17.5°	762.6	768.3	774.1	778.1	786.9	790.9	796.2	786.5	779.8	766.6	752.0
20°	687.0	701.1	717.9	721.5	729.4	752.9	763.5	771.9	774.5	770.1	758.2
22.5°	581.7	593.6	634.3	633.4	644.9	672.8	703.8	729.0	748.9	759.9	755.5
25°	455.6	472.4	494.1	510.5	548.1	589.6	628.1	668.4	702.9	733.4	740.9
27.5°	344.6	366.7	384.0	405.6	424.6	473.7	523.3	586.1	626.4	684.3	714.4
30°	278.7	288.8	306.1	316.3	325.6	363.2	419.3	481.3	552.0	618.8	670.6
32.5°	238.0	245.1	257.9	262.3	272.0	297.3	332.6	389.3	462.2	543.2	611.3
35°	213.7	221.2	223.8	227.8	235.8	251.7	276.0	317.2	383.1	462.2	543.6
37.5°	192.9	196.8	204.4	207.0	209.7	221.6	238.0	266.7	310.5	375.5	465.8
40°	178.3	180.5	184.5	186.7	188.4	196.8	211.4	230.9	263.2	312.7	395.9
42.5°	162.8	165.4	168.1	170.7	173.0	179.6	188.4	207.0	228.7	266.3	326.4
45°	147.7	149.5	152.6	154.4	157.5	162.8	170.7	183.6	203.0	226.9	275.6
47.5°	134.0	136.2	137.6	139.8	142.0	147.7	155.3	163.7	179.6	203.0	238.4
50°	121.6	124.3	126.1	126.5	128.3	133.6	139.8	149.1	159.2	177.4	208.3
52.5°	112.8	113.2	114.6	116.3	115.9	119.0	124.7	131.8	142.4	157.0	179.6
55°	102.6	104.0	104.8	105.3	105.3	107.9	111.0	117.7	126.1	138.0	157.0
57.5°	89.8	91.1	93.8	94.7	96.0	97.3	98.6	103.1	110.1	121.6	137.1
60°	76.5	77.4	80.1	81.8	82.7	86.3	88.0	91.6	95.5	104.0	118.5
62.5°	61.5	62.4	63.7	65.5	67.2	72.5	77.0	80.5	83.6	89.4	101.3
65°	53.5	54.0	54.9	55.3	55.7	57.9	61.9	66.8	72.5	77.0	84.0
67.5°	46.4	46.9	47.3	48.2	48.7	49.1	50.9	52.2	57.9	64.1	69.4
70°	39.8	40.7	41.1	41.1	41.6	42.5	43.3	45.1	46.9	50.0	56.6
72.5°	33.6	34.1	34.9	34.9	34.9	35.8	36.7	37.6	38.5	40.3	42.9
75°	27.9	28.8	28.8	28.8	29.2	29.2	30.1	31.0	31.8	33.2	34.1
77.5°	23.0	23.0	23.0	23.0	23.4	23.4	23.9	24.8	25.2	25.7	26.5
80°	17.3	17.7	17.7	17.7	18.1	18.1	18.1	19.0	19.5	19.5	20.3
82.5°	12.8	12.8	12.8	13.3	12.8	13.3	13.3	13.7	13.3	13.7	14.2
85°	8.0	8.0	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.0	4.0
90°	27.8	27.3	26.8	26.6	26.0	24.8	23.6	22.4	21.2	19.3	17.4
92.5°	28.2	28.0	27.7	27.6	27.4	26.9	26.4	26.0	25.5	24.8	24.1
95°	46.1	46.4	46.6	46.7	46.1	44.9	43.8	42.6	41.4	39.8	38.1
97.5°	58.0	57.7	57.5	57.4	57.0	56.3	55.6	54.9	54.2	50.4	46.6
100°	70.3	69.8	69.3	69.1	68.2	66.3	64.4	62.5	60.6	56.6	52.6
102.5°	76.2	75.5	74.8	74.4	73.1	70.5	67.9	65.3	62.7	105.7	148.6
105°	78.8	77.9	77.0	76.5	75.2	72.6	70.0	67.4	64.8	129.2	193.7
107.5°	81.0	80.0	79.1	78.6	77.3	74.7	72.1	69.5	66.9	146.5	226.1
110°	82.0	81.1	80.2	79.7	91.5	115.1	138.7	162.3	185.9	254.1	322.4

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	83.6	82.9	82.2	81.8	132.7	234.4	336.2	437.9	539.7	543.7	547.7
115°	121.1	138.1	155.1	163.6	218.3	327.6	436.9	546.2	655.5	649.6	643.7
117.5°	406.3	468.2	530.1	561.0	577.9	611.6	645.4	679.1	712.9	708.9	704.9
120°	711.8	743.7	775.6	791.5	790.1	787.3	784.4	781.6	778.8	774.5	770.3
122.5°	848.4	848.2	847.9	847.8	847.1	845.7	844.2	842.8	841.4	836.7	832.0
125°	907.0	906.3	905.6	905.2	904.4	902.7	901.0	899.4	897.7	893.2	888.8
127.5°	961.0	960.8	960.5	960.4	959.2	956.9	954.5	952.2	949.8	946.3	942.7
130°	1010.8	1011.1	1011.3	1011.4	1010.1	1007.5	1004.9	1002.3	999.7	997.1	994.5
132.5°	1058.6	1058.9	1059.1	1059.2	1058.1	1056.0	1053.9	1051.8	1049.7	1047.1	1044.5
135°	1104.8	1105.3	1105.8	1106.0	1104.8	1102.4	1100.1	1097.7	1095.3	1093.2	1091.1
137.5°	1147.7	1148.4	1149.1	1149.5	1148.3	1146.0	1143.6	1141.3	1138.9	1136.5	1134.2
140°	1188.1	1189.2	1190.4	1191.0	1189.9	1187.8	1185.7	1183.5	1181.4	1178.8	1176.2
142.5°	1226.3	1227.4	1228.6	1229.2	1228.3	1226.4	1224.5	1222.6	1220.7	1217.6	1214.6
145°	1261.4	1262.5	1263.7	1264.3	1263.5	1261.8	1260.1	1258.5	1256.8	1252.8	1248.8
147.5°	1292.7	1293.7	1294.6	1295.1	1294.5	1293.3	1292.2	1291.0	1289.8	1285.8	1281.8
150°	1321.9	1323.0	1324.2	1324.8	1324.1	1322.7	1321.3	1319.9	1318.5	1314.7	1310.9
152.5°	1347.3	1348.9	1350.6	1351.4	1350.7	1349.3	1347.8	1346.4	1345.0	1341.5	1337.9
155°	1370.1	1372.0	1373.9	1374.8	1374.1	1372.7	1371.2	1369.8	1368.4	1365.6	1362.7
157.5°	1391.3	1393.2	1395.1	1396.0	1395.2	1393.5	1391.9	1390.2	1388.6	1386.5	1384.3
160°	1408.9	1410.5	1412.2	1413.0	1412.3	1410.9	1409.4	1408.0	1406.6	1405.2	1403.8
162.5°	1424.7	1426.8	1428.9	1430.0	1429.2	1427.5	1425.9	1424.2	1422.6	1421.4	1420.2
165°	1438.6	1440.3	1442.0	1442.8	1442.0	1440.3	1438.6	1437.0	1435.3	1434.6	1433.9
167.5°	1449.1	1451.2	1453.3	1454.4	1453.6	1451.9	1450.3	1448.6	1447.0	1446.3	1445.6
170°	1457.6	1459.7	1461.8	1462.9	1462.1	1460.4	1458.8	1457.1	1455.5	1455.0	1454.6
172.5°	1464.0	1466.1	1468.2	1469.3	1468.5	1466.8	1465.2	1463.5	1461.9	1461.4	1461.0
175°	1467.7	1470.0	1472.4	1473.6	1472.8	1471.1	1469.4	1467.8	1466.1	1465.6	1465.2
177.5°	1469.3	1471.4	1473.5	1474.6	1473.8	1472.1	1470.5	1468.8	1467.2	1467.0	1466.7
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	649.8	647.6	647.6	646.3	646.3	639.2	639.2	641.4	638.7	635.6	631.2
5°	666.6	661.7	660.4	658.6	652.9	644.0	640.5	639.2	633.9	627.2	619.7
7.5°	682.5	674.6	670.6	666.6	659.1	646.7	639.6	634.8	626.8	616.6	606.9
10°	698.0	687.8	677.7	672.8	662.2	646.7	636.5	628.6	617.1	603.4	589.6
12.5°	712.2	690.9	689.2	679.4	664.0	646.3	630.8	619.3	604.7	588.8	572.8
15°	724.6	702.9	692.3	683.4	663.1	641.0	624.6	610.4	591.0	572.8	553.4
17.5°	730.7	707.3	700.2	685.6	664.8	636.1	614.0	596.7	575.5	553.8	531.7
20°	736.9	709.5	698.0	687.8	659.5	626.8	602.0	582.1	558.7	533.0	508.7
22.5°	740.0	709.5	695.8	681.6	654.2	616.6	587.4	564.0	536.6	510.5	481.3
25°	734.7	706.9	690.5	675.9	644.9	604.2	570.6	544.1	514.9	485.2	455.6
27.5°	721.5	700.7	681.6	666.6	632.1	588.3	552.9	522.8	492.8	459.6	429.5
30°	696.7	687.4	672.4	655.5	618.0	574.2	532.1	501.2	468.0	434.8	403.4
32.5°	658.2	666.2	656.4	641.8	601.1	554.7	510.0	478.6	442.3	406.5	377.8
35°	611.3	639.6	634.3	624.1	583.4	533.9	489.2	451.2	414.9	378.6	349.9
37.5°	560.0	602.9	607.3	601.1	563.1	512.7	463.6	426.4	389.3	352.5	323.4
40°	489.7	555.6	569.7	572.4	541.9	487.0	435.7	399.4	362.7	326.9	291.5
42.5°	425.1	508.2	525.9	537.0	514.9	461.8	410.0	369.8	333.5	301.2	265.8
45°	364.5	451.2	479.9	494.1	484.4	433.1	379.5	341.9	308.8	279.1	245.1
47.5°	302.1	389.3	429.5	452.1	452.1	403.9	350.3	313.2	281.3	256.1	226.0
50°	260.5	333.1	374.7	404.3	412.3	374.2	323.8	287.5	257.4	230.0	207.0
52.5°	222.1	287.1	321.6	352.5	375.5	342.4	294.2	261.4	231.8	206.1	188.0
55°	192.0	240.6	272.0	306.1	331.8	310.1	265.4	233.6	207.9	186.7	171.2
57.5°	163.2	205.7	231.3	261.4	288.8	272.5	236.7	209.2	186.7	168.1	154.4
60°	138.9	173.4	193.3	216.7	250.8	239.3	209.7	184.5	166.3	149.5	138.0
62.5°	118.1	145.5	162.3	179.1	210.1	204.8	181.8	162.3	146.9	132.7	123.0
65°	96.9	119.4	132.7	147.3	172.1	174.3	155.7	142.0	127.8	115.5	106.6
67.5°	78.3	96.0	107.9	120.3	140.2	146.4	133.6	122.1	110.1	100.0	92.0
70°	63.3	75.6	84.5	94.2	110.6	118.1	111.5	103.5	93.8	85.4	78.3
72.5°	50.0	57.9	63.3	70.8	84.0	91.6	91.1	84.0	77.0	71.2	65.5
75°	36.7	42.9	47.3	52.2	62.8	69.9	71.7	68.6	61.5	57.1	52.6
77.5°	27.9	31.4	33.6	37.2	44.7	50.9	53.5	52.6	47.8	44.2	41.1
80°	21.2	22.1	23.0	24.3	30.5	36.3	38.0	37.6	34.9	33.6	30.1
82.5°	15.0	15.5	15.9	16.4	18.6	23.4	25.2	26.1	23.9	22.6	19.5
85°	8.8	9.3	9.3	10.2	10.6	11.9	15.0	15.0	14.6	12.8	12.4
87.5°	4.4	4.4	4.0	4.0	4.4	4.9	5.8	6.6	5.8	5.3	4.9
90°	15.5	13.6	12.7	11.4	8.8	6.3	3.7	1.1	3.7	6.3	8.8
92.5°	23.4	22.7	22.3	22.8	23.7	24.7	25.6	26.6	25.6	24.7	23.7
95°	36.5	34.8	34.0	37.9	45.7	53.5	61.3	69.1	61.3	53.5	45.7
97.5°	42.9	39.1	37.2	46.9	66.2	85.6	104.9	124.3	104.9	85.6	66.2
100°	48.5	44.5	42.5	58.7	91.0	123.3	155.7	188.0	155.7	123.3	91.0
102.5°	191.6	234.5	256.0	256.2	256.7	257.2	257.7	258.2	257.7	257.2	256.7
105°	258.1	322.6	354.8	351.3	344.2	337.1	330.1	323.0	330.1	337.1	344.2
107.5°	305.6	385.2	425.0	422.0	416.1	410.2	404.3	398.4	404.3	410.2	416.1
110°	390.6	458.9	493.0	490.5	485.5	480.6	475.6	470.6	475.6	480.6	485.5

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	551.8	555.8	557.8	555.7	551.4	547.1	542.9	538.6	542.9	547.1	551.4
115°	637.8	631.9	628.9	626.9	622.9	618.9	614.9	610.9	614.9	618.9	622.9
117.5°	700.8	696.8	694.8	692.4	687.7	683.0	678.3	673.6	678.3	683.0	687.7
120°	766.0	761.7	759.6	757.8	754.3	750.8	747.2	743.7	747.2	750.8	754.3
122.5°	827.3	822.6	820.2	818.3	814.5	810.8	807.0	803.2	807.0	810.8	814.5
125°	884.3	879.8	877.6	876.1	873.0	869.9	866.8	863.7	866.8	869.9	873.0
127.5°	939.2	935.7	933.9	932.2	928.9	925.6	922.3	919.0	922.3	925.6	928.9
130°	991.9	989.3	988.0	986.1	982.3	978.6	974.8	971.0	974.8	978.6	982.3
132.5°	1041.9	1039.3	1038.0	1036.5	1033.4	1030.3	1027.3	1024.2	1027.3	1030.3	1033.4
135°	1089.0	1086.9	1085.8	1083.9	1080.1	1076.4	1072.6	1068.8	1072.6	1076.4	1080.1
137.5°	1131.8	1129.5	1128.3	1126.9	1124.0	1121.2	1118.3	1115.5	1118.3	1121.2	1124.0
140°	1173.6	1171.0	1169.7	1168.8	1166.9	1165.0	1163.1	1161.2	1163.1	1165.0	1166.9
142.5°	1211.5	1208.4	1206.9	1206.1	1204.4	1202.8	1201.1	1199.5	1201.1	1202.8	1204.4
145°	1244.8	1240.8	1238.8	1238.9	1239.1	1239.4	1239.6	1239.8	1239.6	1239.4	1239.1
147.5°	1277.7	1273.7	1271.7	1272.1	1272.8	1273.5	1274.2	1274.9	1274.2	1273.5	1272.8
150°	1307.2	1303.4	1301.5	1302.3	1304.0	1305.6	1307.3	1308.9	1307.3	1305.6	1304.0
152.5°	1334.4	1330.9	1329.1	1330.0	1331.9	1333.8	1335.7	1337.6	1335.7	1333.8	1331.9
155°	1359.9	1357.0	1355.6	1356.7	1358.8	1360.9	1363.1	1365.2	1363.1	1360.9	1358.8
157.5°	1382.2	1380.1	1379.0	1379.9	1381.8	1383.7	1385.6	1387.5	1385.6	1383.7	1381.8
160°	1402.4	1401.0	1400.3	1401.0	1402.4	1403.8	1405.2	1406.6	1405.2	1403.8	1402.4
162.5°	1419.1	1417.9	1417.3	1418.0	1419.4	1420.8	1422.2	1423.6	1422.2	1420.8	1419.4
165°	1433.2	1432.5	1432.1	1432.8	1434.2	1435.7	1437.1	1438.5	1437.1	1435.7	1434.2
167.5°	1444.9	1444.2	1443.8	1444.5	1445.9	1447.4	1448.8	1450.2	1448.8	1447.4	1445.9
170°	1454.1	1453.6	1453.4	1454.1	1455.5	1457.0	1458.4	1459.8	1458.4	1457.0	1455.5
172.5°	1460.5	1460.0	1459.8	1460.5	1461.9	1463.3	1464.7	1466.1	1464.7	1463.3	1461.9
175°	1464.7	1464.2	1464.0	1464.8	1466.5	1468.1	1469.8	1471.4	1469.8	1468.1	1466.5
177.5°	1466.5	1466.2	1466.1	1466.9	1468.6	1470.3	1471.9	1473.6	1471.9	1470.3	1468.6
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	629.5	629.9	631.2	627.2	621.0	618.4	610.4	609.1	607.8	607.8	609.1
5°	615.3	613.5	614.0	606.4	597.6	592.3	581.2	583.0	577.3	573.7	574.6
7.5°	599.8	594.9	594.5	584.8	573.7	564.0	552.5	549.8	544.5	538.3	535.7
10°	580.4	576.8	570.2	559.1	545.0	537.0	521.5	512.2	510.9	501.6	498.1
12.5°	560.4	554.3	547.6	532.1	516.2	503.4	491.9	481.7	474.6	466.7	461.4
15°	537.4	529.9	522.4	506.0	487.5	474.6	457.4	442.3	421.6	405.2	395.9
17.5°	512.2	503.8	493.7	475.5	457.4	439.7	407.8	390.1	375.5	365.8	360.1
20°	486.1	476.8	466.7	448.5	417.1	386.2	368.5	354.8	345.9	336.2	329.1
22.5°	458.7	449.0	437.9	409.6	376.4	354.8	341.0	328.2	315.4	310.1	306.5
25°	433.1	424.2	410.0	371.6	345.5	325.6	310.1	301.7	295.0	288.0	281.3
27.5°	406.5	390.1	370.2	337.9	321.6	301.2	290.2	284.0	272.5	267.6	264.5
30°	374.7	356.5	337.5	314.5	295.5	281.3	271.2	261.0	254.3	249.5	244.2
32.5°	342.4	325.1	313.2	289.3	275.1	260.5	250.8	244.6	234.9	231.8	229.6
35°	314.5	299.9	289.3	269.8	256.6	243.3	236.2	226.9	220.7	215.0	211.4
37.5°	287.1	279.1	268.1	251.7	237.5	226.9	217.2	214.1	205.7	202.6	199.1
40°	268.1	256.1	246.8	232.7	220.7	209.2	203.0	196.0	190.2	185.3	184.0
42.5°	245.1	236.2	230.9	215.4	203.0	196.4	188.9	180.9	176.5	172.5	167.6
45°	227.8	219.8	212.3	199.9	188.9	180.5	173.8	168.5	161.0	159.2	151.7
47.5°	209.7	201.7	196.0	183.6	173.4	165.4	160.6	153.5	147.3	143.3	139.8
50°	191.5	184.9	179.6	169.0	160.1	151.7	145.1	138.0	135.4	128.7	126.5
52.5°	174.3	169.9	164.1	153.9	145.1	138.0	130.9	125.2	121.2	117.7	115.0
55°	159.7	152.6	150.0	138.9	131.4	123.9	117.7	114.1	109.3	107.0	104.8
57.5°	143.3	139.3	134.9	126.5	118.1	111.0	106.6	101.3	98.6	96.0	94.2
60°	129.2	123.4	119.9	112.8	105.3	98.6	94.7	90.7	87.1	84.9	81.4
62.5°	112.8	108.4	106.2	98.6	92.4	86.3	82.7	78.7	76.1	72.1	67.7
65°	98.6	95.1	92.4	86.3	80.5	74.8	71.2	66.4	62.8	60.6	60.2
67.5°	86.3	83.6	79.6	73.9	68.1	63.7	59.7	55.7	55.3	54.4	54.4
70°	72.5	69.9	67.7	61.5	56.6	51.8	50.9	49.5	48.2	47.8	46.9
72.5°	60.6	58.4	55.7	50.4	45.6	44.2	43.3	42.5	41.1	40.7	40.3
75°	49.1	46.0	44.2	39.4	38.0	37.2	36.3	34.9	34.1	33.6	32.7
77.5°	37.6	34.5	34.5	31.8	31.0	29.6	28.8	27.9	27.4	26.5	26.5
80°	26.5	26.5	25.7	24.3	23.0	22.6	21.2	20.8	20.3	20.8	19.9
82.5°	19.5	17.7	17.7	16.8	15.9	15.5	14.6	14.6	14.2	14.2	14.2
85°	11.1	11.1	10.6	9.7	9.3	9.3	8.8	8.8	8.4	8.4	8.0
87.5°	4.4	4.0	4.4	4.0	4.0	3.5	3.5	3.5	3.1	3.5	3.1
90°	11.4	12.7	13.6	15.5	17.4	19.3	21.2	22.4	23.6	24.8	26.0
92.5°	22.8	22.3	22.7	23.4	24.1	24.8	25.5	26.0	26.4	26.9	27.4
95°	37.9	34.0	34.8	36.5	38.1	39.8	41.4	42.6	43.8	44.9	46.1
97.5°	46.9	37.2	39.1	42.9	46.6	50.4	54.2	54.9	55.6	56.3	57.0
100°	58.7	42.5	44.5	48.5	52.6	56.6	60.6	62.5	64.4	66.3	68.2
102.5°	256.2	256.0	234.5	191.6	148.6	105.7	62.7	65.3	67.9	70.5	73.1
105°	351.3	354.8	322.6	258.1	193.7	129.2	64.8	67.4	70.0	72.6	75.2
107.5°	422.0	425.0	385.2	305.6	226.1	146.5	66.9	69.5	72.1	74.7	77.3
110°	490.5	493.0	458.9	390.6	322.4	254.1	185.9	162.3	138.7	115.1	91.5

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	555.7	557.8	555.8	551.8	547.7	543.7	539.7	437.9	336.2	234.4	132.7
115°	626.9	628.9	631.9	637.8	643.7	649.6	655.5	546.2	436.9	327.6	218.3
117.5°	692.4	694.8	696.8	700.8	704.9	708.9	712.9	679.1	645.4	611.6	577.9
120°	757.8	759.6	761.7	766.0	770.3	774.5	778.8	781.6	784.4	787.3	790.1
122.5°	818.3	820.2	822.6	827.3	832.0	836.7	841.4	842.8	844.2	845.7	847.1
125°	876.1	877.6	879.8	884.3	888.8	893.2	897.7	899.4	901.0	902.7	904.4
127.5°	932.2	933.9	935.7	939.2	942.7	946.3	949.8	952.2	954.5	956.9	959.2
130°	986.1	988.0	989.3	991.9	994.5	997.1	999.7	1002.3	1004.9	1007.5	1010.1
132.5°	1036.5	1038.0	1039.3	1041.9	1044.5	1047.1	1049.7	1051.8	1053.9	1056.0	1058.1
135°	1083.9	1085.8	1086.9	1089.0	1091.1	1093.2	1095.3	1097.7	1100.1	1102.4	1104.8
137.5°	1126.9	1128.3	1129.5	1131.8	1134.2	1136.5	1138.9	1141.3	1143.6	1146.0	1148.3
140°	1168.8	1169.7	1171.0	1173.6	1176.2	1178.8	1181.4	1183.5	1185.7	1187.8	1189.9
142.5°	1206.1	1206.9	1208.4	1211.5	1214.6	1217.6	1220.7	1222.6	1224.5	1226.4	1228.3
145°	1238.9	1238.8	1240.8	1244.8	1248.8	1252.8	1256.8	1258.5	1260.1	1261.8	1263.5
147.5°	1272.1	1271.7	1273.7	1277.7	1281.8	1285.8	1289.8	1291.0	1292.2	1293.3	1294.5
150°	1302.3	1301.5	1303.4	1307.2	1310.9	1314.7	1318.5	1319.9	1321.3	1322.7	1324.1
152.5°	1330.0	1329.1	1330.9	1334.4	1337.9	1341.5	1345.0	1346.4	1347.8	1349.3	1350.7
155°	1356.7	1355.6	1357.0	1359.9	1362.7	1365.6	1368.4	1369.8	1371.2	1372.7	1374.1
157.5°	1379.9	1379.0	1380.1	1382.2	1384.3	1386.5	1388.6	1390.2	1391.9	1393.5	1395.2
160°	1401.0	1400.3	1401.0	1402.4	1403.8	1405.2	1406.6	1408.0	1409.4	1410.9	1412.3
162.5°	1418.0	1417.3	1417.9	1419.1	1420.2	1421.4	1422.6	1424.2	1425.9	1427.5	1429.2
165°	1432.8	1432.1	1432.5	1433.2	1433.9	1434.6	1435.3	1437.0	1438.6	1440.3	1442.0
167.5°	1444.5	1443.8	1444.2	1444.9	1445.6	1446.3	1447.0	1448.6	1450.3	1451.9	1453.6
170°	1454.1	1453.4	1453.6	1454.1	1454.6	1455.0	1455.5	1457.1	1458.8	1460.4	1462.1
172.5°	1460.5	1459.8	1460.0	1460.5	1461.0	1461.4	1461.9	1463.5	1465.2	1466.8	1468.5
175°	1464.8	1464.0	1464.2	1464.7	1465.2	1465.6	1466.1	1467.8	1469.4	1471.1	1472.8
177.5°	1466.9	1466.1	1466.2	1466.5	1466.7	1467.0	1467.2	1468.8	1470.5	1472.1	1473.8
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	609.1	608.2	605.6	606.4	605.1	605.1	604.2	604.2	604.2	606.4	605.1
5°	575.9	572.8	569.7	568.4	567.1	565.8	565.8	565.3	569.3	568.4	571.9
7.5°	534.8	533.9	527.7	527.7	525.5	524.6	526.8	527.3	527.7	528.6	530.8
10°	498.1	495.9	487.0	487.9	486.6	484.8	486.1	485.2	488.3	489.2	488.3
12.5°	454.7	450.7	441.0	436.1	430.8	426.9	431.7	428.2	440.6	444.1	453.8
15°	397.2	389.7	383.1	383.1	378.2	374.7	376.9	380.9	383.5	387.5	389.3
17.5°	358.7	355.6	350.3	347.2	345.9	344.6	344.6	346.4	352.1	351.7	355.2
20°	326.0	324.2	321.6	317.6	316.3	315.4	315.4	315.4	319.4	322.9	325.1
22.5°	303.4	302.1	300.3	295.0	292.4	291.5	293.7	295.0	298.1	300.8	303.0
25°	280.9	277.8	274.7	272.9	271.6	271.6	272.5	272.9	274.3	275.6	278.2
27.5°	262.3	260.1	255.7	250.8	250.8	249.5	250.4	251.2	254.3	258.8	261.0
30°	241.5	241.1	239.3	237.5	235.8	234.9	236.7	238.0	238.4	240.6	240.6
32.5°	226.5	223.4	220.3	218.5	217.6	217.2	217.6	219.4	219.4	222.1	225.2
35°	211.4	209.7	206.6	203.5	202.6	200.4	202.1	203.9	207.0	208.3	209.7
37.5°	195.1	192.9	191.5	190.6	188.9	189.3	188.0	190.6	193.3	192.9	193.7
40°	182.7	178.7	174.7	174.3	173.8	173.4	173.4	173.8	175.6	177.4	180.0
42.5°	166.8	165.4	161.9	158.4	157.5	156.6	155.7	157.5	161.0	164.1	165.4
45°	150.4	148.6	147.7	145.1	143.3	142.9	142.0	144.2	147.3	148.6	149.5
47.5°	135.4	134.9	132.3	132.7	131.4	131.8	131.4	132.7	132.7	134.0	134.9
50°	125.2	123.9	122.5	121.6	120.3	120.3	119.9	120.3	122.1	123.9	123.4
52.5°	115.0	112.8	112.4	111.9	111.0	111.9	110.6	111.0	112.8	113.7	113.2
55°	103.1	102.6	101.7	100.9	100.4	100.0	100.0	100.0	101.7	103.1	103.5
57.5°	93.8	91.6	89.8	89.8	88.0	87.6	88.5	88.9	90.2	91.1	92.0
60°	80.9	80.1	77.4	76.1	73.4	73.0	73.0	74.8	77.0	80.1	80.9
62.5°	67.2	65.9	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.9	65.9
65°	59.7	60.2	59.7	59.3	59.7	59.7	59.3	59.3	59.3	59.7	60.2
67.5°	53.5	53.1	53.5	53.1	52.6	52.6	52.2	52.6	53.1	53.5	53.5
70°	46.4	46.4	46.0	46.4	46.0	45.6	45.1	45.1	46.0	46.4	46.4
72.5°	39.8	39.8	39.4	39.4	38.5	38.5	38.9	38.5	38.5	39.8	39.8
75°	33.2	32.7	32.3	32.3	31.8	31.8	31.8	31.4	32.3	32.3	32.7
77.5°	26.1	26.1	26.1	25.7	25.7	25.2	25.2	25.7	25.7	25.7	26.1
80°	19.9	19.9	19.9	19.5	19.0	19.0	19.0	19.0	19.0	19.5	19.0
82.5°	13.7	13.7	13.7	13.7	13.7	13.3	13.3	13.3	13.7	13.7	13.3
85°	8.4	8.0	8.4	8.4	8.0	8.4	8.0	8.0	7.5	7.5	8.0
87.5°	3.5	3.1	2.7	2.7	3.1	2.7	2.7	2.7	3.1	2.7	2.7
90°	26.6	26.8	27.3	27.8	28.2	28.7	28.2	27.8	27.3	26.8	26.6
92.5°	27.6	27.7	28.0	28.2	28.5	28.7	28.5	28.2	28.0	27.7	27.6
95°	46.7	46.6	46.4	46.1	45.9	45.7	45.9	46.1	46.4	46.6	46.7
97.5°	57.4	57.5	57.7	58.0	58.2	58.4	58.2	58.0	57.7	57.5	57.4
100°	69.1	69.3	69.8	70.3	70.7	71.2	70.7	70.3	69.8	69.3	69.1
102.5°	74.4	74.8	75.5	76.2	76.9	77.6	76.9	76.2	75.5	74.8	74.4
105°	76.5	77.0	77.9	78.8	79.8	80.7	79.8	78.8	77.9	77.0	76.5
107.5°	78.6	79.1	80.0	81.0	81.9	82.9	81.9	81.0	80.0	79.1	78.6
110°	79.7	80.2	81.1	82.0	83.0	83.9	83.0	82.0	81.1	80.2	79.7

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	81.8	82.2	82.9	83.6	84.3	85.0	84.3	83.6	82.9	82.2	81.8
115°	163.6	155.1	138.1	121.1	104.1	87.1	104.1	121.1	138.1	155.1	163.6
117.5°	561.0	530.1	468.2	406.3	344.5	282.6	344.5	406.3	468.2	530.1	561.0
120°	791.5	775.6	743.7	711.8	680.0	648.1	680.0	711.8	743.7	775.6	791.5
122.5°	847.8	847.9	848.2	848.4	848.7	848.9	848.7	848.4	848.2	847.9	847.8
125°	905.2	905.6	906.3	907.0	907.7	908.4	907.7	907.0	906.3	905.6	905.2
127.5°	960.4	960.5	960.8	961.0	961.3	961.5	961.3	961.0	960.8	960.5	960.4
130°	1011.4	1011.3	1011.1	1010.8	1010.6	1010.4	1010.6	1010.8	1011.1	1011.3	1011.4
132.5°	1059.2	1059.1	1058.9	1058.6	1058.4	1058.2	1058.4	1058.6	1058.9	1059.1	1059.2
135°	1106.0	1105.8	1105.3	1104.8	1104.3	1103.8	1104.3	1104.8	1105.3	1105.8	1106.0
137.5°	1149.5	1149.1	1148.4	1147.7	1147.0	1146.3	1147.0	1147.7	1148.4	1149.1	1149.5
140°	1191.0	1190.4	1189.2	1188.1	1186.9	1185.7	1186.9	1188.1	1189.2	1190.4	1191.0
142.5°	1229.2	1228.6	1227.4	1226.3	1225.1	1223.9	1225.1	1226.3	1227.4	1228.6	1229.2
145°	1264.3	1263.7	1262.5	1261.4	1260.2	1259.0	1260.2	1261.4	1262.5	1263.7	1264.3
147.5°	1295.1	1294.6	1293.7	1292.7	1291.8	1290.8	1291.8	1292.7	1293.7	1294.6	1295.1
150°	1324.8	1324.2	1323.0	1321.9	1320.7	1319.5	1320.7	1321.9	1323.0	1324.2	1324.8
152.5°	1351.4	1350.6	1348.9	1347.3	1345.6	1344.0	1345.6	1347.3	1348.9	1350.6	1351.4
155°	1374.8	1373.9	1372.0	1370.1	1368.2	1366.3	1368.2	1370.1	1372.0	1373.9	1374.8
157.5°	1396.0	1395.1	1393.2	1391.3	1389.4	1387.5	1389.4	1391.3	1393.2	1395.1	1396.0
160°	1413.0	1412.2	1410.5	1408.9	1407.2	1405.6	1407.2	1408.9	1410.5	1412.2	1413.0
162.5°	1430.0	1428.9	1426.8	1424.7	1422.5	1420.4	1422.5	1424.7	1426.8	1428.9	1430.0
165°	1442.8	1442.0	1440.3	1438.6	1437.0	1435.3	1437.0	1438.6	1440.3	1442.0	1442.8
167.5°	1454.4	1453.3	1451.2	1449.1	1447.0	1444.9	1447.0	1449.1	1451.2	1453.3	1454.4
170°	1462.9	1461.8	1459.7	1457.6	1455.5	1453.4	1455.5	1457.6	1459.7	1461.8	1462.9
172.5°	1469.3	1468.2	1466.1	1464.0	1461.9	1459.8	1461.9	1464.0	1466.1	1468.2	1469.3
175°	1473.6	1472.4	1470.0	1467.7	1465.3	1462.9	1465.3	1467.7	1470.0	1472.4	1473.6
177.5°	1474.6	1473.5	1471.4	1469.3	1467.2	1465.1	1467.2	1469.3	1471.4	1473.5	1474.6
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	606.4	608.7	607.8	602.9	607.8	609.1	611.8	614.4	616.2	618.8	621.0
5°	568.4	572.8	575.5	572.8	581.7	583.0	589.2	592.7	598.0	602.5	606.0
7.5°	532.6	536.1	541.4	542.3	547.6	553.8	562.7	571.5	579.9	584.3	588.3
10°	494.1	500.3	508.2	506.5	514.4	524.2	533.5	547.6	554.7	562.7	569.7
12.5°	455.6	459.6	470.2	473.7	485.2	492.8	505.6	514.4	532.1	541.4	547.6
15°	388.4	404.7	418.0	433.9	449.0	463.1	474.6	490.6	506.0	513.1	523.3
17.5°	357.9	365.4	373.3	381.3	400.8	426.0	446.3	463.6	476.8	486.1	498.1
20°	326.0	333.5	342.4	349.9	361.8	380.0	405.2	434.8	450.7	460.5	472.0
22.5°	303.4	310.5	316.3	322.9	332.2	345.5	364.5	401.2	422.4	434.4	444.6
25°	279.1	288.0	294.2	299.0	306.5	321.1	336.6	357.4	395.5	404.7	418.9
27.5°	262.3	265.0	272.0	279.6	287.1	295.0	311.0	328.7	354.3	374.7	391.9
30°	242.4	249.0	255.7	258.8	265.4	276.9	286.6	305.7	325.6	341.5	362.3
32.5°	227.4	231.3	235.8	243.3	249.5	257.4	267.2	283.1	299.9	310.1	326.0
35°	210.6	213.2	222.5	225.6	231.8	239.7	249.5	261.9	280.0	288.0	299.5
37.5°	194.6	200.8	203.5	210.6	216.3	224.3	231.3	245.5	257.4	266.7	277.3
40°	182.2	184.9	189.8	196.0	200.8	207.0	215.9	226.0	238.9	246.4	255.7
42.5°	167.2	169.4	175.6	179.1	187.1	192.9	198.2	210.6	222.1	227.8	237.1
45°	150.8	156.1	160.1	167.2	171.6	178.7	185.3	194.2	204.8	211.4	216.7
47.5°	136.7	142.0	146.0	152.6	159.7	162.8	169.9	179.1	188.9	194.2	201.7
50°	125.2	127.0	134.5	137.6	145.1	151.3	156.1	164.1	174.7	177.8	184.0
52.5°	114.1	115.5	120.3	124.3	130.9	136.2	142.4	150.0	158.8	163.7	168.5
55°	104.4	105.3	107.5	111.9	116.3	123.0	128.7	135.8	143.3	148.6	153.0
57.5°	93.3	95.1	96.9	99.5	104.0	110.1	116.3	123.0	129.2	132.7	138.5
60°	80.5	83.2	86.3	89.4	92.4	96.9	104.0	110.1	115.9	119.0	123.4
62.5°	66.8	72.1	74.8	78.3	80.9	84.9	90.2	97.3	101.3	105.3	108.8
65°	60.2	60.6	61.0	64.6	69.4	73.4	78.3	83.6	89.8	92.4	95.1
67.5°	53.5	54.0	54.9	55.3	57.1	61.5	66.8	72.5	77.4	79.2	81.8
70°	46.9	46.9	48.7	49.1	49.5	50.0	54.4	60.2	64.6	66.8	69.9
72.5°	39.8	40.3	41.1	41.6	42.5	43.3	44.7	47.8	53.1	55.3	58.8
75°	32.7	33.2	33.6	34.1	35.4	35.8	37.2	38.9	41.1	43.8	46.0
77.5°	26.1	26.1	26.5	27.4	28.3	28.8	30.1	31.0	31.8	33.2	34.9
80°	19.5	19.9	19.9	20.8	20.8	21.2	21.7	23.0	23.9	24.8	25.7
82.5°	13.3	14.2	14.2	14.2	14.6	15.0	15.5	15.5	16.4	16.8	18.1
85°	8.0	8.4	8.4	8.4	8.0	8.8	8.8	9.3	9.3	9.3	9.7
87.5°	3.1	2.7	3.1	3.1	3.1	3.5	3.1	3.1	3.5	4.0	4.0
90°	26.0	24.8	23.6	22.4	21.2	19.3	17.4	15.5	13.6	12.7	11.4
92.5°	27.4	26.9	26.4	26.0	25.5	24.8	24.1	23.4	22.7	22.3	22.8
95°	46.1	44.9	43.8	42.6	41.4	39.8	38.1	36.5	34.8	34.0	37.9
97.5°	57.0	56.3	55.6	54.9	54.2	50.4	46.6	42.9	39.1	37.2	46.9
100°	68.2	66.3	64.4	62.5	60.6	56.6	52.6	48.5	44.5	42.5	58.7
102.5°	73.1	70.5	67.9	65.3	62.7	105.7	148.6	191.6	234.5	256.0	256.2
105°	75.2	72.6	70.0	67.4	64.8	129.2	193.7	258.1	322.6	354.8	351.3
107.5°	77.3	74.7	72.1	69.5	66.9	146.5	226.1	305.6	385.2	425.0	422.0
110°	91.5	115.1	138.7	162.3	185.9	254.1	322.4	390.6	458.9	493.0	490.5

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	132.7	234.4	336.2	437.9	539.7	543.7	547.7	551.8	555.8	557.8	555.7
115°	218.3	327.6	436.9	546.2	655.5	649.6	643.7	637.8	631.9	628.9	626.9
117.5°	577.9	611.6	645.4	679.1	712.9	708.9	704.9	700.8	696.8	694.8	692.4
120°	790.1	787.3	784.4	781.6	778.8	774.5	770.3	766.0	761.7	759.6	757.8
122.5°	847.1	845.7	844.2	842.8	841.4	836.7	832.0	827.3	822.6	820.2	818.3
125°	904.4	902.7	901.0	899.4	897.7	893.2	888.8	884.3	879.8	877.6	876.1
127.5°	959.2	956.9	954.5	952.2	949.8	946.3	942.7	939.2	935.7	933.9	932.2
130°	1010.1	1007.5	1004.9	1002.3	999.7	997.1	994.5	991.9	989.3	988.0	986.1
132.5°	1058.1	1056.0	1053.9	1051.8	1049.7	1047.1	1044.5	1041.9	1039.3	1038.0	1036.5
135°	1104.8	1102.4	1100.1	1097.7	1095.3	1093.2	1091.1	1089.0	1086.9	1085.8	1083.9
137.5°	1148.3	1146.0	1143.6	1141.3	1138.9	1136.5	1134.2	1131.8	1129.5	1128.3	1126.9
140°	1189.9	1187.8	1185.7	1183.5	1181.4	1178.8	1176.2	1173.6	1171.0	1169.7	1168.8
142.5°	1228.3	1226.4	1224.5	1222.6	1220.7	1217.6	1214.6	1211.5	1208.4	1206.9	1206.1
145°	1263.5	1261.8	1260.1	1258.5	1256.8	1252.8	1248.8	1244.8	1240.8	1238.8	1238.9
147.5°	1294.5	1293.3	1292.2	1291.0	1289.8	1285.8	1281.8	1277.7	1273.7	1271.7	1272.1
150°	1324.1	1322.7	1321.3	1319.9	1318.5	1314.7	1310.9	1307.2	1303.4	1301.5	1302.3
152.5°	1350.7	1349.3	1347.8	1346.4	1345.0	1341.5	1337.9	1334.4	1330.9	1329.1	1330.0
155°	1374.1	1372.7	1371.2	1369.8	1368.4	1365.6	1362.7	1359.9	1357.0	1355.6	1356.7
157.5°	1395.2	1393.5	1391.9	1390.2	1388.6	1386.5	1384.3	1382.2	1380.1	1379.0	1379.9
160°	1412.3	1410.9	1409.4	1408.0	1406.6	1405.2	1403.8	1402.4	1401.0	1400.3	1401.0
162.5°	1429.2	1427.5	1425.9	1424.2	1422.6	1421.4	1420.2	1419.1	1417.9	1417.3	1418.0
165°	1442.0	1440.3	1438.6	1437.0	1435.3	1434.6	1433.9	1433.2	1432.5	1432.1	1432.8
167.5°	1453.6	1451.9	1450.3	1448.6	1447.0	1446.3	1445.6	1444.9	1444.2	1443.8	1444.5
170°	1462.1	1460.4	1458.8	1457.1	1455.5	1455.0	1454.6	1454.1	1453.6	1453.4	1454.1
172.5°	1468.5	1466.8	1465.2	1463.5	1461.9	1461.4	1461.0	1460.5	1460.0	1459.8	1460.5
175°	1472.8	1471.1	1469.4	1467.8	1466.1	1465.6	1465.2	1464.7	1464.2	1464.0	1464.8
177.5°	1473.8	1472.1	1470.5	1468.8	1467.2	1467.0	1466.7	1466.5	1466.2	1466.1	1466.9
180°	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3	1468.3

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	636.5	636.5	636.5	636.5
2.5°	625.0	623.7	631.7	640.5
5°	612.2	614.4	624.6	637.0
7.5°	598.9	603.8	615.7	632.1
10°	580.4	589.2	607.3	624.1
12.5°	562.2	574.2	591.4	611.3
15°	541.9	555.1	576.4	600.3
17.5°	519.3	534.3	559.1	585.2
20°	495.4	515.3	541.4	569.7
22.5°	468.9	492.8	519.8	551.2
25°	443.2	469.3	496.3	532.6
27.5°	418.0	443.7	473.7	510.5
30°	392.8	416.2	448.5	487.9
32.5°	365.8	390.1	424.2	464.5
35°	341.0	365.4	397.2	437.0
37.5°	314.5	340.6	371.1	412.3
40°	283.5	314.1	343.7	383.1
42.5°	257.9	290.2	318.9	356.1
45°	237.5	268.1	291.9	328.2
47.5°	218.5	243.3	267.6	301.2
50°	200.4	219.4	244.6	274.7
52.5°	181.8	198.2	219.8	248.2
55°	165.0	180.5	199.9	221.6
57.5°	149.5	160.6	180.0	199.5
60°	132.3	143.8	158.8	175.2
62.5°	117.7	126.5	140.7	154.4
65°	102.2	110.6	121.2	134.0
67.5°	88.0	95.5	104.0	114.1
70°	75.2	80.9	87.1	96.0
72.5°	61.5	67.7	73.4	80.5
75°	50.4	53.1	57.9	62.8
77.5°	38.9	42.5	45.1	49.1
80°	27.9	31.0	31.8	34.9
82.5°	18.6	20.3	22.1	23.0
85°	10.6	11.5	13.3	13.7
87.5°	4.0	4.4	5.3	6.2
90°	8.8	6.3	3.7	1.1
92.5°	23.7	24.7	25.6	26.6
95°	45.7	53.5	61.3	69.1
97.5°	66.2	85.6	104.9	124.3
100°	91.0	123.3	155.7	188.0
102.5°	256.7	257.2	257.7	258.2
105°	344.2	337.1	330.1	323.0
107.5°	416.1	410.2	404.3	398.4
110°	485.5	480.6	475.6	470.6

TEST NUMBER: P999474

CATALOG NUMBER: SA2XXRDIP-B290D1080UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	551.4	547.1	542.9	538.6
115°	622.9	618.9	614.9	610.9
117.5°	687.7	683.0	678.3	673.6
120°	754.3	750.8	747.2	743.7
122.5°	814.5	810.8	807.0	803.2
125°	873.0	869.9	866.8	863.7
127.5°	928.9	925.6	922.3	919.0
130°	982.3	978.6	974.8	971.0
132.5°	1033.4	1030.3	1027.3	1024.2
135°	1080.1	1076.4	1072.6	1068.8
137.5°	1124.0	1121.2	1118.3	1115.5
140°	1166.9	1165.0	1163.1	1161.2
142.5°	1204.4	1202.8	1201.1	1199.5
145°	1239.1	1239.4	1239.6	1239.8
147.5°	1272.8	1273.5	1274.2	1274.9
150°	1304.0	1305.6	1307.3	1308.9
152.5°	1331.9	1333.8	1335.7	1337.6
155°	1358.8	1360.9	1363.1	1365.2
157.5°	1381.8	1383.7	1385.6	1387.5
160°	1402.4	1403.8	1405.2	1406.6
162.5°	1419.4	1420.8	1422.2	1423.6
165°	1434.2	1435.7	1437.1	1438.5
167.5°	1445.9	1447.4	1448.8	1450.2
170°	1455.5	1457.0	1458.4	1459.8
172.5°	1461.9	1463.3	1464.7	1466.1
175°	1466.5	1468.1	1469.8	1471.4
177.5°	1468.6	1470.3	1471.9	1473.6
180°	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)