

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: P1010941

Luminaire Tested: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010941
REPORT IS A COMBINATION OF REPORTS P993407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

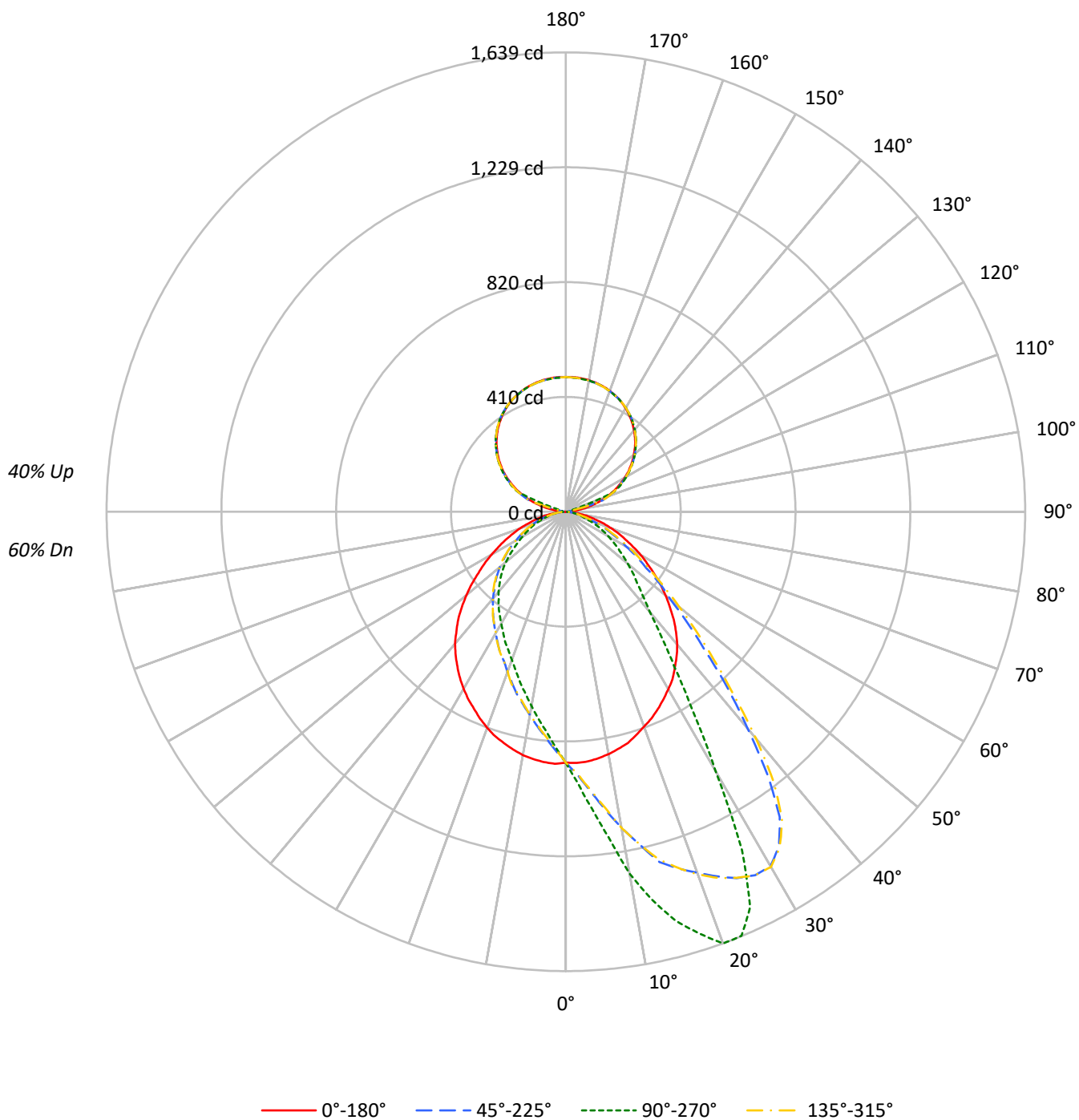
Lumens per Lamp: N/A
Luminaire Lumens: 3694.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	60
1	101	97	93	90	94	91	87	85	79	77	75	69	67	66	59	58	57	57	57	52
2	92	85	79	74	86	80	75	71	70	66	63	61	58	56	53	51	49	49	49	45
3	85	76	69	63	79	71	65	60	63	58	54	55	51	48	48	45	42	42	42	39
4	78	67	60	54	73	64	57	51	56	51	47	49	45	42	43	40	37	37	37	34
5	72	60	53	47	67	57	50	45	51	45	41	45	40	37	39	36	33	33	33	30
6	66	55	47	41	62	52	44	39	46	40	36	41	36	32	36	32	29	29	29	27
7	62	49	42	36	58	47	40	35	42	36	32	37	32	29	33	29	26	26	26	24
8	57	45	38	32	54	43	36	31	38	33	29	34	29	26	30	26	24	24	24	21
9	53	41	34	29	50	39	33	28	35	30	26	31	27	24	28	24	22	22	22	19
10	50	38	31	26	47	36	30	25	33	27	23	29	25	21	26	22	20	20	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9632	9632	9632	9632
5°	9639	11092	9663	8230
10°	9553	13390	9595	7188
15°	9456	15197	9456	6338
20°	9262	16392	9314	5622
25°	9119	15574	9102	5130
30°	8954	10791	8936	4649
35°	8756	6928	8716	4286
40°	8508	4892	8465	3925
45°	8078	3914	8066	3573
50°	7548	3275	7524	3162
55°	6954	2699	6898	2681
60°	6370	2231	6308	2280
65°	5686	1785	5722	1933
70°	5053	1240	5189	1562
75°	4283	921	4458	1201
80°	3409	611	3703	901
85°	2430	288	2651	561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 12858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	2.4
10°-20°	275.1	7.4
20°-30°	433.2	11.7
30°-40°	450.5	12.2
40°-50°	385.4	10.4
50°-60°	293.8	8.0
60°-70°	188.2	5.1
70°-80°	90.2	2.4
80°-90°	24.7	0.7
90°-100°	16.9	0.5
100°-110°	81.9	2.2
110°-120°	200.8	5.4
120°-130°	254.9	6.9
130°-140°	272.3	7.4
140°-150°	254.6	6.9
150°-160°	205.4	5.6
160°-170°	132.5	3.6
170°-180°	45.7	1.2
0°-30°	796.2	21.6
0°-40°	1246.6	33.7
0°-60°	1925.8	52.1
0°-90°	2229.0	60.3
90°-120°	299.6	8.1
90°-150°	1081.4	29.3
90°-180°	1465.0	39.7
0°-180°	3694.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	895	895	895	895	895	
5°	894	1062	896	788	894	85
15°	854	1510	854	630	854	240
25°	777	1556	775	512	777	358
35°	678	675	675	418	678	424
45°	544	360	543	329	544	419
55°	384	226	381	224	384	344
65°	235	130	237	141	235	235
75°	113	55	117	72	113	122
85°	25	13	28	25	25	28
90°	0	11	0	11	0	3
95°	22	14	22	14	22	26
105°	106	16	106	16	106	113
115°	200	210	200	210	200	197
125°	281	287	281	287	281	251
135°	350	354	350	354	350	270
145°	404	408	404	408	404	253
155°	445	444	445	444	445	205
165°	470	468	470	468	470	133
175°	481	479	481	479	481	46
180°	481	481	481	481	481	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	897.1	903.2	907.8	910.8	918.5	923.1	926.9	933.8	933.8	935.4	938.4
5°	894.0	907.0	916.2	928.5	944.6	952.2	962.9	972.1	985.2	992.0	998.9
7.5°	887.1	905.5	924.6	943.0	966.8	982.1	992.8	1016.6	1033.4	1054.1	1070.2
10°	877.9	903.2	927.7	956.0	988.2	1011.2	1027.3	1058.7	1090.9	1120.0	1144.5
12.5°	866.4	897.1	932.3	966.8	1012.0	1034.9	1061.0	1100.1	1146.0	1182.8	1215.7
15°	854.2	889.4	929.2	971.4	1028.1	1060.2	1097.8	1145.3	1196.6	1249.4	1294.6
17.5°	835.0	879.4	923.9	985.2	1051.8	1071.0	1103.1	1168.2	1231.8	1279.3	1334.5
20°	815.9	865.6	921.6	976.7	1048.7	1093.2	1123.0	1192.0	1260.2	1317.6	1370.5
22.5°	798.2	850.3	908.5	978.3	1045.7	1090.1	1127.6	1199.7	1278.6	1342.9	1408.0
25°	776.8	833.5	897.8	963.7	1045.7	1079.4	1120.7	1204.2	1287.7	1362.1	1442.5
27.5°	753.8	811.3	874.8	942.3	1017.3	1067.1	1107.7	1197.4	1299.2	1378.9	1461.6
30°	730.8	789.8	851.1	911.6	995.9	1043.4	1090.1	1188.9	1305.4	1396.5	1460.1
32.5°	708.6	758.4	818.9	877.9	961.4	1013.5	1066.4	1180.5	1307.7	1384.3	1414.9
35°	678.0	730.1	779.1	841.9	926.2	977.5	1039.5	1179.7	1297.7	1345.2	1329.9
37.5°	649.6	693.3	740.0	795.9	882.5	949.1	1013.5	1159.8	1264.8	1267.8	1181.3
40°	618.2	654.2	693.3	752.3	845.7	911.6	981.3	1129.2	1205.0	1159.8	1007.4
42.5°	582.2	614.4	645.0	702.5	804.4	877.9	953.0	1090.9	1118.4	1014.3	855.7
45°	543.9	569.9	598.3	658.8	760.7	833.5	908.5	1031.9	1003.5	856.5	705.5
47.5°	504.1	526.3	553.9	609.0	714.0	788.3	859.5	947.6	875.6	717.8	591.4
50°	464.2	481.9	508.7	565.4	666.5	733.9	799.8	857.2	756.1	615.9	488.7
52.5°	425.2	439.0	466.5	514.8	612.8	677.2	724.7	746.9	644.3	508.7	424.4
55°	383.8	399.1	417.5	466.5	563.8	611.3	642.7	642.0	536.2	431.3	350.9
57.5°	344.0	357.8	373.8	422.9	501.8	533.9	560.8	547.7	447.4	353.2	301.1
60°	308.7	316.4	334.0	375.4	435.1	462.7	478.0	455.8	365.4	298.0	249.0
62.5°	270.4	278.1	292.6	331.7	368.5	383.0	396.1	367.7	301.8	242.8	213.0
65°	235.2	245.1	254.3	285.7	305.7	323.3	321.7	298.0	235.9	197.6	173.1
67.5°	204.5	208.4	216.0	235.2	244.4	257.4	258.2	231.4	190.0	160.9	146.3
70°	171.6	175.4	180.8	190.0	196.1	199.2	197.6	173.9	143.3	125.6	112.6
72.5°	143.3	142.5	146.3	146.3	152.4	151.7	147.1	128.7	108.8	94.2	86.6
75°	112.6	113.4	114.1	112.6	110.3	107.2	103.4	89.6	76.6	69.7	62.8
77.5°	88.1	86.6	87.3	82.0	78.9	75.8	70.5	63.6	52.9	51.3	48.3
80°	62.8	62.1	61.3	59.0	52.1	49.0	45.2	41.4	39.1	37.5	36.8
82.5°	42.1	42.1	40.6	36.0	32.2	29.9	29.1	27.6	25.3	25.3	24.5
85°	25.3	24.5	23.0	18.4	16.1	16.1	16.1	16.1	14.6	14.6	13.8
87.5°	10.0	9.2	6.9	6.9	6.1	6.1	6.1	5.4	5.4	4.6	4.6
90°	0.4	1.2	2.0	2.7	3.5	3.9	4.4	5.5	6.5	7.6	8.6
92.5°	8.2	7.7	7.3	6.8	6.3	6.1	6.5	7.2	7.9	8.6	9.3
95°	21.8	18.5	15.3	12.0	8.7	7.1	7.5	8.4	9.3	10.2	11.1
97.5°	39.6	37.4	35.2	32.9	30.7	29.6	27.6	23.5	19.5	15.4	11.4
100°	60.3	61.9	63.5	65.1	66.7	67.5	61.3	48.9	36.6	24.2	11.8
102.5°	83.9	84.9	85.9	87.0	88.0	88.5	81.6	67.8	54.0	40.2	26.4
105°	106.4	107.3	108.1	109.0	109.9	110.3	106.7	99.6	92.5	85.3	78.2
107.5°	130.3	131.0	131.7	132.4	133.1	133.5	134.1	135.3	136.5	137.7	138.9
110°	154.2	154.8	155.5	156.1	156.8	157.1	157.5	158.4	159.3	160.1	161.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	177.1	177.7	178.2	178.8	179.3	179.6	180.0	180.9	181.8	182.6	183.5
115°	199.6	200.1	200.5	201.0	201.5	201.7	202.1	202.8	203.5	204.2	204.9
117.5°	221.7	222.3	222.8	223.4	223.9	224.2	224.4	224.8	225.2	225.6	226.0
120°	242.1	242.8	243.5	244.2	244.9	245.3	245.4	245.7	245.9	246.2	246.4
122.5°	262.8	263.4	263.9	264.5	265.0	265.3	265.5	265.8	266.1	266.4	266.7
125°	281.3	281.9	282.6	283.2	283.9	284.2	284.4	284.7	285.0	285.3	285.6
127.5°	299.9	300.5	301.2	301.8	302.5	302.8	303.0	303.4	303.7	304.1	304.5
130°	317.0	317.6	318.3	318.9	319.6	319.9	320.1	320.4	320.7	321.0	321.3
132.5°	333.5	334.1	334.7	335.4	336.0	336.3	336.4	336.7	336.9	337.2	337.4
135°	350.2	350.7	351.2	351.7	352.2	352.4	352.6	352.9	353.2	353.5	353.8
137.5°	364.5	365.1	365.8	366.4	367.1	367.4	367.5	367.6	367.8	367.9	368.1
140°	378.8	379.3	379.8	380.3	380.8	381.0	381.1	381.3	381.6	381.8	382.0
142.5°	392.0	392.5	393.0	393.5	394.0	394.2	394.3	394.5	394.8	395.0	395.2
145°	404.2	404.8	405.3	405.9	406.4	406.7	406.8	406.9	407.1	407.2	407.4
147.5°	415.9	416.3	416.7	417.1	417.5	417.7	417.8	417.9	418.1	418.2	418.4
150°	426.7	426.9	427.1	427.4	427.6	427.7	427.8	427.9	428.1	428.2	428.4
152.5°	436.3	436.4	436.4	436.5	436.6	436.6	436.6	436.7	436.8	436.9	437.0
155°	445.2	445.0	444.9	444.7	444.6	444.5	444.5	444.6	444.7	444.8	444.9
157.5°	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.3	452.2	452.1	452.0
160°	458.8	458.7	458.6	458.5	458.4	458.4	458.4	458.3	458.2	458.2	458.1
162.5°	464.9	464.7	464.4	464.2	463.9	463.8	463.8	463.7	463.6	463.5	463.4
165°	469.5	469.3	469.0	468.8	468.5	468.4	468.4	468.3	468.2	468.2	468.1
167.5°	473.4	473.1	472.8	472.5	472.2	472.0	472.0	472.0	472.0	472.0	472.0
170°	476.6	476.3	476.0	475.7	475.4	475.2	475.2	475.2	475.2	475.2	475.2
172.5°	478.8	478.4	478.0	477.6	477.2	477.0	477.0	477.1	477.2	477.3	477.4
175°	480.6	480.2	479.8	479.4	479.0	478.8	478.8	478.9	479.0	479.0	479.1
177.5°	481.3	480.9	480.5	480.1	479.7	479.5	479.5	479.6	479.7	479.7	479.8
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	944.6	944.6	951.4	958.3	954.5	956.8	965.2	962.2	968.3	967.5	969.8
5°	1015.8	1024.2	1031.1	1045.7	1048.0	1045.7	1060.2	1064.1	1071.0	1062.5	1066.4
7.5°	1096.2	1113.9	1130.7	1152.2	1159.1	1160.6	1168.2	1179.0	1188.2	1171.3	1179.7
10°	1174.4	1201.2	1235.7	1254.8	1271.7	1277.8	1283.9	1290.8	1301.5	1311.5	1303.8
12.5°	1258.6	1297.7	1330.6	1365.1	1385.8	1383.5	1401.1	1405.7	1414.1	1416.4	1419.5
15°	1327.6	1382.7	1403.4	1454.7	1459.3	1474.7	1494.6	1512.2	1514.5	1509.9	1509.9
17.5°	1393.5	1441.0	1477.7	1519.1	1527.5	1540.5	1565.8	1574.3	1577.3	1576.6	1576.6
20°	1447.1	1478.5	1540.5	1575.0	1588.8	1605.7	1623.3	1634.0	1636.3	1639.4	1634.8
22.5°	1482.3	1529.8	1580.4	1608.7	1620.2	1626.3	1637.8	1640.9	1637.1	1637.8	1638.6
25°	1509.9	1556.6	1587.3	1594.9	1594.2	1586.5	1578.1	1563.5	1562.0	1555.9	1543.6
27.5°	1517.6	1535.2	1531.4	1499.9	1468.5	1465.5	1414.9	1387.3	1355.9	1360.5	1342.9
30°	1476.2	1453.2	1398.8	1319.2	1286.2	1232.6	1175.9	1116.9	1093.9	1068.7	1115.4
32.5°	1375.1	1293.1	1196.6	1093.2	1038.0	990.5	930.0	887.1	862.6	841.9	881.7
35°	1222.6	1094.7	966.8	868.7	823.5	780.6	723.9	702.5	671.8	674.9	678.7
37.5°	1026.5	885.6	789.0	692.5	662.6	645.0	603.7	570.7	560.0	556.9	556.9
40°	842.7	727.0	641.2	565.4	542.4	527.8	494.9	479.6	468.1	465.0	468.8
42.5°	697.1	598.3	531.6	481.1	465.0	446.6	432.8	413.7	411.4	406.0	412.9
45°	585.3	499.5	449.7	412.9	399.1	392.2	376.9	365.4	360.8	360.0	365.4
47.5°	496.4	429.8	386.1	363.1	352.4	345.5	332.5	327.9	323.3	324.8	322.5
50°	416.7	366.9	338.6	317.9	311.0	304.1	295.7	291.1	288.8	288.8	288.0
52.5°	357.8	316.4	298.0	278.8	275.8	272.0	262.8	259.7	255.9	255.1	258.2
55°	306.4	278.1	259.7	248.2	245.1	237.5	233.6	229.8	227.5	226.0	226.8
57.5°	262.0	240.5	228.3	218.3	213.0	209.9	203.0	202.2	200.7	200.7	199.9
60°	225.2	209.9	195.3	189.2	185.4	181.6	180.8	176.2	173.9	175.4	174.7
62.5°	190.7	178.5	170.1	163.2	160.9	157.8	155.5	154.0	151.7	152.4	152.4
65°	159.3	149.4	143.3	137.1	136.4	133.3	132.5	131.0	131.0	130.2	131.8
67.5°	131.0	124.1	118.7	114.9	112.6	113.4	110.3	108.0	108.0	107.2	109.5
70°	104.2	100.4	95.0	90.4	87.3	87.3	83.5	82.7	82.7	82.7	82.0
72.5°	80.4	73.5	71.2	69.7	69.7	69.7	68.2	68.2	67.4	68.2	67.4
75°	59.8	59.0	57.5	56.7	56.7	55.9	55.2	55.2	55.2	55.2	55.2
77.5°	46.7	46.7	45.2	44.4	44.4	44.4	43.7	43.7	42.9	42.9	42.9
80°	34.5	34.5	32.9	32.9	32.9	32.2	32.2	32.2	32.9	32.2	32.2
82.5°	23.7	23.7	23.0	23.7	23.0	22.2	22.2	22.2	21.4	22.2	22.2
85°	13.8	13.8	13.0	12.3	13.0	13.0	12.3	13.0	12.3	13.0	12.3
87.5°	5.4	4.6	4.6	4.6	3.8	4.6	3.8	3.8	4.6	3.8	4.6
90°	8.9	9.2	9.5	9.8	10.0	10.1	10.2	10.4	10.5	10.7	10.5
92.5°	9.9	10.4	11.0	11.5	11.8	11.8	11.9	12.0	12.0	12.1	12.0
95°	11.7	12.2	12.8	13.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6
97.5°	12.0	12.7	13.3	14.0	14.3	14.3	14.4	14.5	14.5	14.6	14.5
100°	12.4	13.0	13.7	14.3	14.6	14.6	14.7	14.8	14.9	15.0	14.9
102.5°	23.8	21.2	18.5	15.9	14.6	14.7	14.9	15.0	15.2	15.4	15.2
105°	64.2	50.1	36.1	22.0	15.0	15.1	15.2	15.4	15.5	15.7	15.5
107.5°	126.7	114.5	102.2	90.0	83.9	78.7	68.3	57.9	47.5	37.1	47.5
110°	158.4	155.8	153.1	150.5	149.2	143.5	132.2	120.9	109.5	98.2	109.5

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	184.2	184.9	185.6	186.3	186.7	186.6	186.5	186.3	186.2	186.0	186.2
115°	205.7	206.5	207.3	208.1	208.5	208.7	209.0	209.3	209.6	209.9	209.6
117.5°	226.6	227.3	227.9	228.6	228.9	228.9	229.0	229.1	229.1	229.2	229.1
120°	247.0	247.6	248.3	248.9	249.2	249.2	249.2	249.2	249.2	249.2	249.2
122.5°	267.1	267.5	267.9	268.3	268.5	268.5	268.6	268.7	268.7	268.8	268.7
125°	285.8	285.9	286.1	286.2	286.3	286.4	286.6	286.7	286.9	287.1	286.9
127.5°	304.7	305.0	305.2	305.5	305.6	305.5	305.4	305.2	305.1	304.9	305.1
130°	321.6	322.0	322.3	322.6	322.8	322.7	322.5	322.4	322.2	322.0	322.2
132.5°	337.7	338.0	338.3	338.6	338.8	338.7	338.5	338.2	338.0	337.8	338.0
135°	354.0	354.3	354.5	354.8	354.9	354.8	354.5	354.3	354.0	353.8	354.0
137.5°	368.5	368.9	369.3	369.7	369.9	369.8	369.7	369.5	369.4	369.2	369.4
140°	382.3	382.7	383.0	383.3	383.5	383.4	383.2	383.1	382.9	382.7	382.9
142.5°	395.4	395.7	395.9	396.2	396.3	396.2	395.9	395.7	395.4	395.2	395.4
145°	407.6	407.7	407.9	408.0	408.1	408.1	408.1	408.1	408.1	408.1	408.1
147.5°	418.6	418.8	418.9	419.1	419.2	419.0	418.6	418.2	417.8	417.4	417.8
150°	428.6	428.8	428.9	429.1	429.2	429.1	428.8	428.6	428.3	428.1	428.3
152.5°	437.3	437.6	437.9	438.2	438.4	438.2	437.8	437.4	437.0	436.6	437.0
155°	445.3	445.7	446.0	446.4	446.6	446.4	445.9	445.4	445.0	444.5	445.0
157.5°	452.5	452.9	453.4	453.9	454.1	453.8	453.2	452.5	451.9	451.3	451.9
160°	458.6	459.0	459.5	460.0	460.2	459.9	459.4	458.8	458.3	457.7	458.3
162.5°	464.0	464.5	465.1	465.6	465.9	465.7	465.2	464.7	464.3	463.8	464.3
165°	468.7	469.3	470.0	470.6	470.9	470.6	470.1	469.5	469.0	468.4	469.0
167.5°	472.6	473.3	473.9	474.6	474.9	474.6	473.9	473.3	472.6	472.0	472.6
170°	475.8	476.5	477.1	477.8	478.1	477.8	477.1	476.5	475.8	475.2	475.8
172.5°	478.0	478.6	479.3	479.9	480.2	479.8	479.1	478.4	477.7	477.0	477.7
175°	479.7	480.2	480.8	481.3	481.6	481.3	480.7	480.0	479.4	478.8	479.4
177.5°	480.4	481.1	481.7	482.4	482.7	482.3	481.5	480.7	479.9	479.1	479.9
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	966.0	961.4	958.3	956.0	953.7	960.6	951.4	941.5	934.6	930.0	928.5
5°	1067.1	1057.2	1048.7	1041.8	1043.4	1043.4	1027.3	1009.7	994.3	985.9	976.7
7.5°	1184.3	1173.6	1156.8	1152.9	1149.9	1130.7	1114.6	1082.4	1063.3	1044.1	1027.3
10°	1300.8	1287.0	1270.9	1265.5	1257.9	1234.1	1209.6	1168.2	1144.5	1109.3	1087.0
12.5°	1409.6	1392.7	1376.6	1372.8	1361.3	1340.6	1298.5	1255.6	1215.0	1177.4	1138.4
15°	1500.7	1496.1	1471.6	1456.3	1431.0	1402.7	1393.5	1335.2	1283.9	1244.8	1174.4
17.5°	1577.3	1555.9	1532.9	1522.9	1513.0	1480.0	1447.1	1387.3	1332.2	1274.7	1229.5
20°	1638.6	1614.9	1598.8	1584.2	1579.6	1542.1	1490.0	1437.1	1376.6	1312.3	1253.3
22.5°	1641.7	1638.6	1627.9	1619.5	1610.3	1585.7	1544.4	1478.5	1414.1	1343.7	1266.3
25°	1578.1	1573.5	1604.1	1596.5	1602.6	1593.4	1571.2	1516.0	1441.0	1358.2	1280.1
27.5°	1386.6	1433.3	1481.6	1498.4	1509.9	1542.8	1553.6	1522.9	1462.4	1374.3	1287.0
30°	1126.1	1188.2	1266.3	1308.4	1340.6	1401.9	1481.6	1491.5	1463.2	1392.7	1285.5
32.5°	884.0	940.7	1003.5	1053.3	1096.2	1221.9	1329.1	1406.5	1420.3	1383.5	1289.3
35°	712.4	737.0	796.7	844.2	902.4	1009.7	1136.1	1260.9	1345.2	1349.8	1277.8
37.5°	587.6	600.6	652.7	679.5	714.0	808.2	926.2	1089.3	1220.3	1282.4	1245.6
40°	486.4	516.3	546.2	561.5	586.0	651.2	764.5	892.5	1054.9	1169.8	1195.8
42.5°	422.1	435.1	454.3	475.7	491.0	547.7	623.6	740.8	887.1	1047.2	1119.2
45°	372.3	376.9	396.8	410.6	426.7	466.5	520.2	618.2	746.9	904.7	1027.3
47.5°	330.9	340.1	350.9	359.3	370.0	400.6	446.6	517.9	631.2	772.2	904.0
50°	294.2	299.5	313.3	317.1	324.8	346.3	381.5	435.9	529.3	642.0	778.3
52.5°	259.7	269.7	275.0	280.4	287.3	304.9	327.9	372.3	442.8	548.5	664.2
55°	232.9	235.9	243.6	248.2	253.6	265.8	285.7	318.7	373.8	458.1	567.7
57.5°	206.8	206.8	214.5	218.3	223.7	232.9	250.5	275.8	315.6	378.4	478.8
60°	179.3	180.0	186.2	190.7	192.3	201.5	216.0	235.9	266.6	312.6	394.5
62.5°	154.7	158.6	161.6	163.2	168.5	173.9	186.2	199.9	221.4	262.0	320.2
65°	134.1	134.8	137.1	138.7	141.0	147.1	156.3	165.5	183.9	213.7	261.2
67.5°	110.3	113.4	116.4	116.4	118.7	121.8	131.0	138.7	152.4	170.1	202.2
70°	82.7	84.3	88.9	91.2	94.2	99.6	104.2	108.8	119.5	132.5	157.0
72.5°	68.9	68.9	70.5	71.2	71.2	75.1	82.0	86.6	91.9	101.1	118.0
75°	55.2	55.2	57.5	56.7	58.2	59.8	60.5	63.6	66.6	73.5	83.5
77.5°	43.7	44.4	44.4	45.2	45.2	46.0	46.7	48.3	49.8	53.6	58.2
80°	32.2	32.9	32.9	33.7	33.7	34.5	35.2	36.0	37.5	39.1	41.4
82.5°	22.2	23.0	23.0	23.7	23.0	23.7	24.5	24.5	25.3	26.8	27.6
85°	13.0	13.0	13.8	13.0	13.0	13.0	13.8	13.8	14.6	16.9	16.9
87.5°	3.8	4.6	3.8	4.6	4.6	4.6	4.6	5.4	5.4	6.1	6.9
90°	10.4	10.2	10.1	10.0	9.8	9.5	9.2	8.9	8.6	7.6	6.5
92.5°	12.0	11.9	11.8	11.8	11.5	11.0	10.4	9.9	9.3	8.6	7.9
95°	13.6	13.6	13.6	13.6	13.3	12.8	12.2	11.7	11.1	10.2	9.3
97.5°	14.5	14.4	14.3	14.3	14.0	13.3	12.7	12.0	11.4	15.4	19.5
100°	14.8	14.7	14.6	14.6	14.3	13.7	13.0	12.4	11.8	24.2	36.6
102.5°	15.0	14.9	14.7	14.6	15.9	18.5	21.2	23.8	26.4	40.2	54.0
105°	15.4	15.2	15.1	15.0	22.0	36.1	50.1	64.2	78.2	85.3	92.5
107.5°	57.9	68.3	78.7	83.9	90.0	102.2	114.5	126.7	138.9	137.7	136.5
110°	120.9	132.2	143.5	149.2	150.5	153.1	155.8	158.4	161.0	160.1	159.3

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CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	186.3	186.5	186.6	186.7	186.3	185.6	184.9	184.2	183.5	182.6	181.8
115°	209.3	209.0	208.7	208.5	208.1	207.3	206.5	205.7	204.9	204.2	203.5
117.5°	229.1	229.0	228.9	228.9	228.6	227.9	227.3	226.6	226.0	225.6	225.2
120°	249.2	249.2	249.2	249.2	248.9	248.3	247.6	247.0	246.4	246.2	245.9
122.5°	268.7	268.6	268.5	268.5	268.3	267.9	267.5	267.1	266.7	266.4	266.1
125°	286.7	286.6	286.4	286.3	286.2	286.1	285.9	285.8	285.6	285.3	285.0
127.5°	305.2	305.4	305.5	305.6	305.5	305.2	305.0	304.7	304.5	304.1	303.7
130°	322.4	322.5	322.7	322.8	322.6	322.3	322.0	321.6	321.3	321.0	320.7
132.5°	338.2	338.5	338.7	338.8	338.6	338.3	338.0	337.7	337.4	337.2	336.9
135°	354.3	354.5	354.8	354.9	354.8	354.5	354.3	354.0	353.8	353.5	353.2
137.5°	369.5	369.7	369.8	369.9	369.7	369.3	368.9	368.5	368.1	367.9	367.8
140°	383.1	383.2	383.4	383.5	383.3	383.0	382.7	382.3	382.0	381.8	381.6
142.5°	395.7	395.9	396.2	396.3	396.2	395.9	395.7	395.4	395.2	395.0	394.8
145°	408.1	408.1	408.1	408.1	408.0	407.9	407.7	407.6	407.4	407.2	407.1
147.5°	418.2	418.6	419.0	419.2	419.1	418.9	418.8	418.6	418.4	418.2	418.1
150°	428.6	428.8	429.1	429.2	429.1	428.9	428.8	428.6	428.4	428.2	428.1
152.5°	437.4	437.8	438.2	438.4	438.2	437.9	437.6	437.3	437.0	436.9	436.8
155°	445.4	445.9	446.4	446.6	446.4	446.0	445.7	445.3	444.9	444.8	444.7
157.5°	452.5	453.2	453.8	454.1	453.9	453.4	452.9	452.5	452.0	452.1	452.2
160°	458.8	459.4	459.9	460.2	460.0	459.5	459.0	458.6	458.1	458.2	458.2
162.5°	464.7	465.2	465.7	465.9	465.6	465.1	464.5	464.0	463.4	463.5	463.6
165°	469.5	470.1	470.6	470.9	470.6	470.0	469.3	468.7	468.1	468.2	468.2
167.5°	473.3	473.9	474.6	474.9	474.6	473.9	473.3	472.6	472.0	472.0	472.0
170°	476.5	477.1	477.8	478.1	477.8	477.1	476.5	475.8	475.2	475.2	475.2
172.5°	478.4	479.1	479.8	480.2	479.9	479.3	478.6	478.0	477.4	477.3	477.2
175°	480.0	480.7	481.3	481.6	481.3	480.8	480.2	479.7	479.1	479.0	479.0
177.5°	480.7	481.5	482.3	482.7	482.4	481.7	481.1	480.4	479.8	479.7	479.7
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	926.2	922.3	918.5	918.5	910.1	902.4	898.6	900.1	895.5	889.4	883.3
5°	966.8	951.4	948.4	940.0	928.5	912.4	904.0	896.3	887.1	874.8	863.4
7.5°	1004.3	984.4	973.7	965.2	943.0	920.8	902.4	890.2	874.1	855.7	841.9
10°	1053.3	1016.6	1005.1	985.9	954.5	923.1	901.7	881.7	859.5	838.1	819.7
12.5°	1092.4	1050.3	1028.8	1009.7	969.1	929.2	893.2	868.7	841.9	818.2	794.4
15°	1136.8	1089.3	1051.8	1028.8	977.5	929.2	888.6	854.2	824.3	795.2	774.5
17.5°	1158.3	1098.5	1081.7	1048.7	974.4	926.2	876.4	839.6	803.6	769.9	745.4
20°	1192.0	1122.3	1080.1	1057.9	992.0	920.8	862.6	820.5	782.9	746.9	720.9
22.5°	1194.3	1118.4	1090.9	1048.7	967.5	904.7	850.3	799.0	755.3	721.6	694.8
25°	1188.9	1111.6	1073.3	1039.5	972.1	895.5	825.8	775.3	732.4	693.3	661.9
27.5°	1186.6	1091.6	1055.6	1021.9	946.1	868.7	811.3	753.8	704.8	670.3	638.1
30°	1183.6	1070.2	1026.5	987.5	917.7	848.0	779.1	729.3	682.6	638.9	606.7
32.5°	1163.6	1041.1	996.6	955.3	880.2	810.5	756.1	703.2	652.7	612.1	583.0
35°	1157.5	1014.3	956.0	911.6	838.1	776.0	718.6	674.9	627.4	586.8	552.3
37.5°	1139.9	986.7	923.9	867.2	790.6	731.6	689.5	645.8	599.8	556.2	528.6
40°	1109.3	954.5	883.3	825.0	746.1	686.4	647.3	615.1	569.9	530.9	497.2
42.5°	1064.1	921.6	845.0	783.7	696.3	640.4	608.3	577.6	539.3	498.7	471.1
45°	1012.0	877.9	806.7	738.5	649.6	595.2	561.5	543.1	507.9	473.4	441.3
47.5°	940.7	832.7	762.2	691.8	601.4	548.5	521.7	503.3	478.8	441.3	415.2
50°	851.1	774.5	707.8	645.0	553.9	503.3	476.5	462.7	442.0	415.2	389.9
52.5°	751.5	707.1	651.9	593.7	505.6	458.1	433.6	422.9	407.5	382.3	360.8
55°	651.2	632.0	594.5	537.0	455.0	416.0	394.5	380.7	369.2	350.9	332.5
57.5°	561.5	552.3	526.3	481.9	412.9	372.3	353.9	344.7	335.5	321.7	303.4
60°	468.8	478.8	452.0	429.8	366.9	331.7	315.6	305.7	301.1	288.8	277.3
62.5°	388.4	397.6	382.3	365.4	321.0	289.6	279.6	270.4	267.4	256.6	245.1
65°	315.6	327.1	315.6	306.4	279.6	253.6	241.3	236.7	233.6	226.8	217.6
67.5°	251.3	262.8	257.4	245.9	237.5	216.0	209.1	204.5	203.0	197.6	190.0
70°	189.2	205.3	206.8	199.9	192.3	182.3	177.7	176.2	172.4	167.8	163.2
72.5°	136.4	154.7	155.5	155.5	150.9	150.9	146.3	144.0	144.0	139.4	134.1
75°	100.4	112.6	114.1	115.7	118.0	120.3	117.2	117.2	116.4	111.8	109.5
77.5°	66.6	77.4	81.2	86.6	89.6	89.6	91.2	92.7	91.2	88.9	87.3
80°	42.9	50.6	55.2	58.2	62.8	65.1	67.4	68.2	66.6	65.9	63.6
82.5°	28.3	30.6	32.9	36.8	42.1	46.0	46.0	45.2	46.7	46.0	45.2
85°	16.1	17.6	18.4	19.2	22.2	26.0	26.8	27.6	29.1	27.6	26.0
87.5°	6.1	6.9	6.9	6.9	8.4	9.2	11.5	14.6	13.8	12.3	12.3
90°	5.5	4.4	3.9	3.5	2.7	2.0	1.2	0.4	1.2	2.0	2.7
92.5°	7.2	6.5	6.1	6.3	6.8	7.3	7.7	8.2	7.7	7.3	6.8
95°	8.4	7.5	7.1	8.7	12.0	15.3	18.5	21.8	18.5	15.3	12.0
97.5°	23.5	27.6	29.6	30.7	32.9	35.2	37.4	39.6	37.4	35.2	32.9
100°	48.9	61.3	67.5	66.7	65.1	63.5	61.9	60.3	61.9	63.5	65.1
102.5°	67.8	81.6	88.5	88.0	87.0	85.9	84.9	83.9	84.9	85.9	87.0
105°	99.6	106.7	110.3	109.9	109.0	108.1	107.3	106.4	107.3	108.1	109.0
107.5°	135.3	134.1	133.5	133.1	132.4	131.7	131.0	130.3	131.0	131.7	132.4
110°	158.4	157.5	157.1	156.8	156.1	155.5	154.8	154.2	154.8	155.5	156.1

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	180.9	180.0	179.6	179.3	178.8	178.2	177.7	177.1	177.7	178.2	178.8
115°	202.8	202.1	201.7	201.5	201.0	200.5	200.1	199.6	200.1	200.5	201.0
117.5°	224.8	224.4	224.2	223.9	223.4	222.8	222.3	221.7	222.3	222.8	223.4
120°	245.7	245.4	245.3	244.9	244.2	243.5	242.8	242.1	242.8	243.5	244.2
122.5°	265.8	265.5	265.3	265.0	264.5	263.9	263.4	262.8	263.4	263.9	264.5
125°	284.7	284.4	284.2	283.9	283.2	282.6	281.9	281.3	281.9	282.6	283.2
127.5°	303.4	303.0	302.8	302.5	301.8	301.2	300.5	299.9	300.5	301.2	301.8
130°	320.4	320.1	319.9	319.6	318.9	318.3	317.6	317.0	317.6	318.3	318.9
132.5°	336.7	336.4	336.3	336.0	335.4	334.7	334.1	333.5	334.1	334.7	335.4
135°	352.9	352.6	352.4	352.2	351.7	351.2	350.7	350.2	350.7	351.2	351.7
137.5°	367.6	367.5	367.4	367.1	366.4	365.8	365.1	364.5	365.1	365.8	366.4
140°	381.3	381.1	381.0	380.8	380.3	379.8	379.3	378.8	379.3	379.8	380.3
142.5°	394.5	394.3	394.2	394.0	393.5	393.0	392.5	392.0	392.5	393.0	393.5
145°	406.9	406.8	406.7	406.4	405.9	405.3	404.8	404.2	404.8	405.3	405.9
147.5°	417.9	417.8	417.7	417.5	417.1	416.7	416.3	415.9	416.3	416.7	417.1
150°	427.9	427.8	427.7	427.6	427.4	427.1	426.9	426.7	426.9	427.1	427.4
152.5°	436.7	436.6	436.6	436.6	436.5	436.4	436.4	436.3	436.4	436.4	436.5
155°	444.6	444.5	444.5	444.6	444.7	444.9	445.0	445.2	445.0	444.9	444.7
157.5°	452.3	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4
160°	458.3	458.4	458.4	458.4	458.5	458.6	458.7	458.8	458.7	458.6	458.5
162.5°	463.7	463.8	463.8	463.9	464.2	464.4	464.7	464.9	464.7	464.4	464.2
165°	468.3	468.4	468.4	468.5	468.8	469.0	469.3	469.5	469.3	469.0	468.8
167.5°	472.0	472.0	472.0	472.2	472.5	472.8	473.1	473.4	473.1	472.8	472.5
170°	475.2	475.2	475.2	475.4	475.7	476.0	476.3	476.6	476.3	476.0	475.7
172.5°	477.1	477.0	477.0	477.2	477.6	478.0	478.4	478.8	478.4	478.0	477.6
175°	478.9	478.8	478.8	479.0	479.4	479.8	480.2	480.6	480.2	479.8	479.4
177.5°	479.6	479.5	479.5	479.7	480.1	480.5	480.9	481.3	480.9	480.5	480.1
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	883.3	879.4	877.9	874.1	864.9	858.8	851.9	847.3	848.0	844.2	846.5
5°	855.7	854.9	849.6	841.9	828.9	822.0	809.7	803.6	800.5	801.3	796.7
7.5°	832.7	825.8	822.0	809.7	797.5	782.9	773.0	767.6	763.0	758.4	755.3
10°	806.7	800.5	794.4	781.4	764.5	750.7	737.0	731.6	724.7	721.6	719.3
12.5°	779.1	775.3	767.6	752.3	733.1	720.1	704.0	700.9	691.8	685.6	684.1
15°	753.8	751.5	737.7	720.1	700.9	687.9	674.1	664.9	649.6	652.7	647.3
17.5°	727.0	717.0	708.6	684.9	675.7	655.7	639.7	635.1	624.3	617.4	610.6
20°	697.1	691.0	680.3	664.9	642.7	619.7	607.5	599.8	593.7	583.0	579.9
22.5°	668.8	661.1	651.9	632.0	612.8	593.7	576.8	569.9	562.3	554.6	550.0
25°	646.6	635.1	625.1	600.6	581.4	565.4	554.6	543.1	532.4	527.8	526.3
27.5°	612.1	605.2	595.2	572.2	554.6	537.0	527.0	519.4	507.9	502.5	497.9
30°	589.9	576.1	564.6	546.2	528.6	509.4	500.2	491.0	484.2	477.3	471.9
32.5°	560.0	549.3	540.1	521.7	504.1	486.4	476.5	462.7	458.9	453.5	447.4
35°	530.9	524.0	514.0	494.1	475.0	462.7	452.0	439.0	434.4	430.5	425.2
37.5°	503.3	493.3	486.4	467.3	450.4	435.9	427.5	416.7	413.7	409.1	405.2
40°	479.6	469.6	462.7	443.5	425.9	410.6	405.2	394.5	389.9	384.6	382.3
42.5°	452.7	444.3	435.1	421.3	402.9	387.6	376.9	370.8	364.6	362.3	357.8
45°	424.4	416.7	409.8	394.5	375.4	364.6	355.5	347.0	342.4	338.6	335.5
47.5°	399.9	393.0	383.8	366.9	351.6	341.7	332.5	324.0	319.4	314.9	311.0
50°	371.5	367.7	357.8	341.7	327.1	315.6	307.2	299.5	296.5	291.1	285.0
52.5°	346.3	339.4	330.9	317.9	304.9	291.1	279.6	275.0	269.7	266.6	261.2
55°	316.4	311.8	302.6	291.1	277.3	265.8	257.4	251.3	244.4	241.3	234.4
57.5°	291.1	282.7	278.1	263.5	250.5	239.0	232.9	226.8	219.1	214.5	211.4
60°	263.5	255.9	249.0	236.7	227.5	215.3	206.1	200.7	195.3	189.2	186.2
62.5°	236.7	230.6	222.2	212.2	200.7	190.7	183.9	176.2	173.1	167.0	164.7
65°	207.6	203.0	196.1	184.6	175.4	167.0	160.1	154.0	150.9	148.6	147.1
67.5°	181.6	175.4	170.8	160.9	150.9	144.0	140.2	136.4	132.5	130.2	127.9
70°	154.7	150.1	145.6	136.4	129.5	123.3	120.3	117.2	114.9	112.6	110.3
72.5°	127.2	124.9	120.3	114.1	108.8	104.2	101.9	98.1	95.8	91.9	90.4
75°	105.0	101.1	98.8	93.5	88.9	85.0	82.0	77.4	74.3	72.8	72.0
77.5°	82.7	81.2	78.1	73.5	71.2	67.4	62.8	61.3	59.8	59.8	59.0
80°	62.1	59.8	57.5	53.6	51.3	48.3	48.3	48.3	47.5	48.3	47.5
82.5°	42.1	40.6	39.1	36.8	36.0	36.0	36.8	36.8	36.8	36.8	36.8
85°	24.5	24.5	24.5	25.3	24.5	24.5	25.3	26.0	25.3	25.3	24.5
87.5°	11.5	11.5	12.3	12.3	13.0	13.0	13.0	13.0	13.0	13.0	13.8
90°	3.5	3.9	4.4	5.5	6.5	7.6	8.6	8.9	9.2	9.5	9.8
92.5°	6.3	6.1	6.5	7.2	7.9	8.6	9.3	9.9	10.4	11.0	11.5
95°	8.7	7.1	7.5	8.4	9.3	10.2	11.1	11.7	12.2	12.8	13.3
97.5°	30.7	29.6	27.6	23.5	19.5	15.4	11.4	12.0	12.7	13.3	14.0
100°	66.7	67.5	61.3	48.9	36.6	24.2	11.8	12.4	13.0	13.7	14.3
102.5°	88.0	88.5	81.6	67.8	54.0	40.2	26.4	23.8	21.2	18.5	15.9
105°	109.9	110.3	106.7	99.6	92.5	85.3	78.2	64.2	50.1	36.1	22.0
107.5°	133.1	133.5	134.1	135.3	136.5	137.7	138.9	126.7	114.5	102.2	90.0
110°	156.8	157.1	157.5	158.4	159.3	160.1	161.0	158.4	155.8	153.1	150.5

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	179.3	179.6	180.0	180.9	181.8	182.6	183.5	184.2	184.9	185.6	186.3
115°	201.5	201.7	202.1	202.8	203.5	204.2	204.9	205.7	206.5	207.3	208.1
117.5°	223.9	224.2	224.4	224.8	225.2	225.6	226.0	226.6	227.3	227.9	228.6
120°	244.9	245.3	245.4	245.7	245.9	246.2	246.4	247.0	247.6	248.3	248.9
122.5°	265.0	265.3	265.5	265.8	266.1	266.4	266.7	267.1	267.5	267.9	268.3
125°	283.9	284.2	284.4	284.7	285.0	285.3	285.6	285.8	285.9	286.1	286.2
127.5°	302.5	302.8	303.0	303.4	303.7	304.1	304.5	304.7	305.0	305.2	305.5
130°	319.6	319.9	320.1	320.4	320.7	321.0	321.3	321.6	322.0	322.3	322.6
132.5°	336.0	336.3	336.4	336.7	336.9	337.2	337.4	337.7	338.0	338.3	338.6
135°	352.2	352.4	352.6	352.9	353.2	353.5	353.8	354.0	354.3	354.5	354.8
137.5°	367.1	367.4	367.5	367.6	367.8	367.9	368.1	368.5	368.9	369.3	369.7
140°	380.8	381.0	381.1	381.3	381.6	381.8	382.0	382.3	382.7	383.0	383.3
142.5°	394.0	394.2	394.3	394.5	394.8	395.0	395.2	395.4	395.7	395.9	396.2
145°	406.4	406.7	406.8	406.9	407.1	407.2	407.4	407.6	407.7	407.9	408.0
147.5°	417.5	417.7	417.8	417.9	418.1	418.2	418.4	418.6	418.8	418.9	419.1
150°	427.6	427.7	427.8	427.9	428.1	428.2	428.4	428.6	428.8	428.9	429.1
152.5°	436.6	436.6	436.6	436.7	436.8	436.9	437.0	437.3	437.6	437.9	438.2
155°	444.6	444.5	444.5	444.6	444.7	444.8	444.9	445.3	445.7	446.0	446.4
157.5°	452.4	452.4	452.4	452.3	452.2	452.1	452.0	452.5	452.9	453.4	453.9
160°	458.4	458.4	458.4	458.3	458.2	458.2	458.1	458.6	459.0	459.5	460.0
162.5°	463.9	463.8	463.8	463.7	463.6	463.5	463.4	464.0	464.5	465.1	465.6
165°	468.5	468.4	468.4	468.3	468.2	468.2	468.1	468.7	469.3	470.0	470.6
167.5°	472.2	472.0	472.0	472.0	472.0	472.0	472.0	472.6	473.3	473.9	474.6
170°	475.4	475.2	475.2	475.2	475.2	475.2	475.2	475.8	476.5	477.1	477.8
172.5°	477.2	477.0	477.0	477.1	477.2	477.3	477.4	478.0	478.6	479.3	479.9
175°	479.0	478.8	478.8	478.9	479.0	479.0	479.1	479.7	480.2	480.8	481.3
177.5°	479.7	479.5	479.5	479.6	479.7	479.7	479.8	480.4	481.1	481.7	482.4
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	845.7	846.5	844.2	839.6	838.8	840.4	845.0	843.4	839.6	846.5	840.4
5°	799.0	795.2	793.6	795.2	790.6	788.3	792.9	790.6	792.9	793.6	795.9
7.5°	753.8	754.6	750.0	750.7	744.6	746.1	746.1	746.1	748.4	750.0	753.0
10°	714.7	716.3	710.9	711.7	707.1	704.0	706.3	710.9	710.9	710.9	712.4
12.5°	683.3	676.4	672.6	671.8	666.5	664.9	669.5	671.1	674.9	674.9	677.2
15°	644.3	642.7	639.7	639.7	626.6	629.7	631.2	636.6	644.3	638.1	639.7
17.5°	609.0	605.2	601.4	599.8	598.3	593.7	599.8	599.1	603.7	604.4	606.7
20°	577.6	574.5	566.9	567.7	569.2	562.3	566.1	566.1	570.7	575.3	580.7
22.5°	547.0	543.9	540.1	541.6	537.0	535.5	535.5	539.3	544.7	548.5	547.7
25°	523.2	517.9	515.6	513.3	511.0	512.5	510.2	514.0	517.9	520.2	517.9
27.5°	496.4	494.1	489.5	487.2	483.4	484.9	486.4	489.5	491.8	491.8	494.1
30°	470.4	467.3	465.8	463.5	463.5	460.4	461.2	464.2	466.5	468.8	471.9
32.5°	445.1	442.8	440.5	440.5	439.0	438.2	437.4	442.0	442.0	446.6	446.6
35°	424.4	420.6	420.6	416.7	418.3	417.5	416.0	419.0	419.8	422.9	422.1
37.5°	401.4	401.4	399.9	396.1	393.0	393.8	397.6	397.6	399.9	399.1	401.4
40°	378.4	376.9	376.9	374.6	373.8	373.1	373.8	374.6	378.4	377.7	378.4
42.5°	355.5	356.2	352.4	352.4	352.4	350.1	350.9	351.6	353.2	354.7	357.0
45°	333.2	331.7	330.9	329.4	327.9	328.6	327.9	330.9	330.2	331.7	334.0
47.5°	309.5	307.2	306.4	303.4	303.4	304.9	304.1	306.4	307.2	309.5	308.0
50°	286.5	283.4	281.1	281.9	277.3	278.8	278.8	281.1	283.4	284.2	285.7
52.5°	259.7	258.9	258.2	254.3	253.6	252.8	253.6	254.3	257.4	259.7	260.5
55°	233.6	232.9	228.3	226.8	224.5	224.5	226.0	226.8	232.1	232.9	235.9
57.5°	209.9	207.6	202.2	201.5	201.5	201.5	199.2	202.2	203.8	207.6	207.6
60°	183.9	183.9	179.3	179.3	180.0	179.3	179.3	180.0	180.0	183.1	184.6
62.5°	163.2	162.4	162.4	160.9	160.1	160.9	160.1	160.1	160.9	163.2	165.5
65°	144.8	144.0	143.3	142.5	141.0	141.0	141.7	143.3	143.3	144.8	145.6
67.5°	127.2	127.2	125.6	125.6	124.9	124.1	124.9	124.1	127.2	127.2	127.9
70°	109.5	108.8	106.5	105.7	103.4	104.2	104.2	106.5	107.2	108.8	110.3
72.5°	88.1	88.1	86.6	85.0	85.8	84.3	84.3	85.0	85.0	87.3	88.1
75°	72.8	71.2	70.5	71.2	70.5	72.0	70.5	70.5	72.0	72.0	72.0
77.5°	59.8	59.8	59.0	59.0	59.8	59.0	59.8	59.8	59.8	59.0	59.8
80°	49.0	48.3	48.3	48.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5
82.5°	36.8	36.8	36.0	36.8	36.8	36.0	36.8	36.0	36.0	36.8	36.8
85°	24.5	26.0	24.5	24.5	25.3	25.3	26.0	25.3	26.0	24.5	25.3
87.5°	13.0	13.8	13.8	13.0	13.0	13.8	13.8	13.8	14.6	13.0	13.8
90°	10.0	10.1	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	10.0
92.5°	11.8	11.8	11.9	12.0	12.0	12.1	12.0	12.0	11.9	11.8	11.8
95°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
97.5°	14.3	14.3	14.4	14.5	14.5	14.6	14.5	14.5	14.4	14.3	14.3
100°	14.6	14.6	14.7	14.8	14.9	15.0	14.9	14.8	14.7	14.6	14.6
102.5°	14.6	14.7	14.9	15.0	15.2	15.4	15.2	15.0	14.9	14.7	14.6
105°	15.0	15.1	15.2	15.4	15.5	15.7	15.5	15.4	15.2	15.1	15.0
107.5°	83.9	78.7	68.3	57.9	47.5	37.1	47.5	57.9	68.3	78.7	83.9
110°	149.2	143.5	132.2	120.9	109.5	98.2	109.5	120.9	132.2	143.5	149.2

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	186.7	186.6	186.5	186.3	186.2	186.0	186.2	186.3	186.5	186.6	186.7
115°	208.5	208.7	209.0	209.3	209.6	209.9	209.6	209.3	209.0	208.7	208.5
117.5°	228.9	228.9	229.0	229.1	229.1	229.2	229.1	229.1	229.0	228.9	228.9
120°	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2	249.2
122.5°	268.5	268.5	268.6	268.7	268.7	268.8	268.7	268.7	268.6	268.5	268.5
125°	286.3	286.4	286.6	286.7	286.9	287.1	286.9	286.7	286.6	286.4	286.3
127.5°	305.6	305.5	305.4	305.2	305.1	304.9	305.1	305.2	305.4	305.5	305.6
130°	322.8	322.7	322.5	322.4	322.2	322.0	322.2	322.4	322.5	322.7	322.8
132.5°	338.8	338.7	338.5	338.2	338.0	337.8	338.0	338.2	338.5	338.7	338.8
135°	354.9	354.8	354.5	354.3	354.0	353.8	354.0	354.3	354.5	354.8	354.9
137.5°	369.9	369.8	369.7	369.5	369.4	369.2	369.4	369.5	369.7	369.8	369.9
140°	383.5	383.4	383.2	383.1	382.9	382.7	382.9	383.1	383.2	383.4	383.5
142.5°	396.3	396.2	395.9	395.7	395.4	395.2	395.4	395.7	395.9	396.2	396.3
145°	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1	408.1
147.5°	419.2	419.0	418.6	418.2	417.8	417.4	417.8	418.2	418.6	419.0	419.2
150°	429.2	429.1	428.8	428.6	428.3	428.1	428.3	428.6	428.8	429.1	429.2
152.5°	438.4	438.2	437.8	437.4	437.0	436.6	437.0	437.4	437.8	438.2	438.4
155°	446.6	446.4	445.9	445.4	445.0	444.5	445.0	445.4	445.9	446.4	446.6
157.5°	454.1	453.8	453.2	452.5	451.9	451.3	451.9	452.5	453.2	453.8	454.1
160°	460.2	459.9	459.4	458.8	458.3	457.7	458.3	458.8	459.4	459.9	460.2
162.5°	465.9	465.7	465.2	464.7	464.3	463.8	464.3	464.7	465.2	465.7	465.9
165°	470.9	470.6	470.1	469.5	469.0	468.4	469.0	469.5	470.1	470.6	470.9
167.5°	474.9	474.6	473.9	473.3	472.6	472.0	472.6	473.3	473.9	474.6	474.9
170°	478.1	477.8	477.1	476.5	475.8	475.2	475.8	476.5	477.1	477.8	478.1
172.5°	480.2	479.8	479.1	478.4	477.7	477.0	477.7	478.4	479.1	479.8	480.2
175°	481.6	481.3	480.7	480.0	479.4	478.8	479.4	480.0	480.7	481.3	481.6
177.5°	482.7	482.3	481.5	480.7	479.9	479.1	479.9	480.7	481.5	482.3	482.7
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8	894.8
2.5°	846.5	849.6	846.5	840.4	846.5	850.3	854.2	860.3	863.4	863.4	867.9
5°	798.2	804.4	802.1	800.5	806.7	810.5	816.6	824.3	832.7	838.1	844.2
7.5°	755.3	759.2	763.0	763.0	769.1	777.6	786.7	795.9	806.7	814.3	818.9
10°	717.8	720.9	723.2	726.2	735.4	744.6	756.9	768.4	777.6	786.0	793.6
12.5°	681.8	686.4	691.8	694.1	700.9	712.4	723.9	737.7	752.3	760.7	768.4
15°	647.3	649.6	655.7	662.6	668.8	681.0	695.6	710.1	722.4	735.4	742.3
17.5°	612.1	612.8	628.9	625.1	645.0	656.5	664.2	678.0	697.9	708.6	719.3
20°	577.6	585.3	592.2	596.0	606.7	619.7	642.0	652.7	668.8	678.7	687.9
22.5°	550.8	562.3	562.3	571.5	576.8	589.1	605.2	625.9	643.5	650.4	663.4
25°	527.0	532.4	541.6	544.7	554.6	565.4	576.1	598.3	617.4	626.6	635.8
27.5°	496.4	503.3	515.6	515.6	528.6	540.1	553.1	567.7	586.8	599.8	609.8
30°	472.7	479.6	484.9	493.3	498.7	509.4	532.4	543.1	560.0	571.5	583.7
32.5°	450.4	455.8	460.4	469.6	475.7	488.0	500.2	519.4	533.9	544.7	557.7
35°	425.9	431.3	437.4	444.3	453.5	465.0	476.5	492.6	507.1	517.1	527.8
37.5°	402.9	406.8	416.0	420.6	428.2	439.0	453.5	470.4	483.4	491.0	501.8
40°	380.7	383.8	390.7	399.1	404.5	412.9	428.2	442.8	458.9	468.1	476.5
42.5°	357.0	360.8	366.9	375.4	383.8	393.0	401.4	418.3	432.8	440.5	449.7
45°	336.3	338.6	343.2	351.6	360.0	366.9	380.0	395.3	409.1	415.2	425.2
47.5°	311.8	314.1	321.0	324.8	334.0	343.2	356.2	371.5	383.8	389.9	399.1
50°	286.5	288.8	293.4	301.8	308.0	317.9	329.4	342.4	357.8	366.2	371.5
52.5°	262.0	266.6	270.4	277.3	285.0	294.9	305.7	317.9	330.9	339.4	345.5
55°	237.5	241.3	245.9	249.7	258.9	268.1	280.4	291.9	303.4	311.0	317.9
57.5°	209.9	215.3	219.9	227.5	234.4	242.1	255.9	265.1	278.8	284.2	290.3
60°	186.2	191.5	195.3	201.5	207.6	217.6	226.8	238.2	249.7	256.6	264.3
62.5°	166.2	168.5	170.8	177.0	183.1	192.3	201.5	213.0	225.2	229.1	235.2
65°	146.3	148.6	152.4	157.8	162.4	167.8	177.7	186.9	198.4	204.5	206.8
67.5°	129.5	131.8	132.5	136.4	140.2	146.3	151.7	160.9	171.6	175.4	180.0
70°	110.3	114.1	114.9	118.0	119.5	123.3	129.5	136.4	144.8	151.7	155.5
72.5°	88.1	93.5	95.0	99.6	101.9	105.7	110.3	115.7	121.0	124.1	127.2
75°	72.0	73.5	74.3	78.1	82.0	87.3	89.6	92.7	97.3	101.1	104.2
77.5°	59.8	60.5	61.3	61.3	62.1	65.1	69.7	73.5	76.6	78.1	80.4
80°	48.3	47.5	47.5	48.3	48.3	48.3	49.8	55.2	56.7	60.5	59.8
82.5°	37.5	36.0	36.8	36.0	36.0	36.0	36.0	36.8	36.8	39.1	40.6
85°	24.5	25.3	24.5	24.5	23.7	24.5	23.7	23.7	23.0	23.0	22.2
87.5°	13.0	13.8	13.0	13.0	12.3	13.0	12.3	12.3	11.5	11.5	10.0
90°	9.8	9.5	9.2	8.9	8.6	7.6	6.5	5.5	4.4	3.9	3.5
92.5°	11.5	11.0	10.4	9.9	9.3	8.6	7.9	7.2	6.5	6.1	6.3
95°	13.3	12.8	12.2	11.7	11.1	10.2	9.3	8.4	7.5	7.1	8.7
97.5°	14.0	13.3	12.7	12.0	11.4	15.4	19.5	23.5	27.6	29.6	30.7
100°	14.3	13.7	13.0	12.4	11.8	24.2	36.6	48.9	61.3	67.5	66.7
102.5°	15.9	18.5	21.2	23.8	26.4	40.2	54.0	67.8	81.6	88.5	88.0
105°	22.0	36.1	50.1	64.2	78.2	85.3	92.5	99.6	106.7	110.3	109.9
107.5°	90.0	102.2	114.5	126.7	138.9	137.7	136.5	135.3	134.1	133.5	133.1
110°	150.5	153.1	155.8	158.4	161.0	160.1	159.3	158.4	157.5	157.1	156.8

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CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	186.3	185.6	184.9	184.2	183.5	182.6	181.8	180.9	180.0	179.6	179.3
115°	208.1	207.3	206.5	205.7	204.9	204.2	203.5	202.8	202.1	201.7	201.5
117.5°	228.6	227.9	227.3	226.6	226.0	225.6	225.2	224.8	224.4	224.2	223.9
120°	248.9	248.3	247.6	247.0	246.4	246.2	245.9	245.7	245.4	245.3	244.9
122.5°	268.3	267.9	267.5	267.1	266.7	266.4	266.1	265.8	265.5	265.3	265.0
125°	286.2	286.1	285.9	285.8	285.6	285.3	285.0	284.7	284.4	284.2	283.9
127.5°	305.5	305.2	305.0	304.7	304.5	304.1	303.7	303.4	303.0	302.8	302.5
130°	322.6	322.3	322.0	321.6	321.3	321.0	320.7	320.4	320.1	319.9	319.6
132.5°	338.6	338.3	338.0	337.7	337.4	337.2	336.9	336.7	336.4	336.3	336.0
135°	354.8	354.5	354.3	354.0	353.8	353.5	353.2	352.9	352.6	352.4	352.2
137.5°	369.7	369.3	368.9	368.5	368.1	367.9	367.8	367.6	367.5	367.4	367.1
140°	383.3	383.0	382.7	382.3	382.0	381.8	381.6	381.3	381.1	381.0	380.8
142.5°	396.2	395.9	395.7	395.4	395.2	395.0	394.8	394.5	394.3	394.2	394.0
145°	408.0	407.9	407.7	407.6	407.4	407.2	407.1	406.9	406.8	406.7	406.4
147.5°	419.1	418.9	418.8	418.6	418.4	418.2	418.1	417.9	417.8	417.7	417.5
150°	429.1	428.9	428.8	428.6	428.4	428.2	428.1	427.9	427.8	427.7	427.6
152.5°	438.2	437.9	437.6	437.3	437.0	436.9	436.8	436.7	436.6	436.6	436.6
155°	446.4	446.0	445.7	445.3	444.9	444.8	444.7	444.6	444.5	444.5	444.6
157.5°	453.9	453.4	452.9	452.5	452.0	452.1	452.2	452.3	452.4	452.4	452.4
160°	460.0	459.5	459.0	458.6	458.1	458.2	458.2	458.3	458.4	458.4	458.4
162.5°	465.6	465.1	464.5	464.0	463.4	463.5	463.6	463.7	463.8	463.8	463.9
165°	470.6	470.0	469.3	468.7	468.1	468.2	468.2	468.3	468.4	468.4	468.5
167.5°	474.6	473.9	473.3	472.6	472.0	472.0	472.0	472.0	472.0	472.0	472.2
170°	477.8	477.1	476.5	475.8	475.2	475.2	475.2	475.2	475.2	475.2	475.4
172.5°	479.9	479.3	478.6	478.0	477.4	477.3	477.2	477.1	477.0	477.0	477.2
175°	481.3	480.8	480.2	479.7	479.1	479.0	479.0	478.9	478.8	478.8	479.0
177.5°	482.4	481.7	481.1	480.4	479.8	479.7	479.7	479.6	479.5	479.5	479.7
180°	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6	480.6

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	894.8	894.8	894.8	894.8
2.5°	871.8	877.1	887.9	897.1
5°	853.4	861.8	877.9	894.0
7.5°	831.2	844.2	864.9	887.1
10°	809.7	826.6	851.9	877.9
12.5°	788.3	805.9	832.7	866.4
15°	763.0	781.4	813.6	854.2
17.5°	740.8	765.3	794.4	835.0
20°	717.0	735.4	773.0	815.9
22.5°	687.2	717.8	753.0	798.2
25°	663.4	690.2	725.5	776.8
27.5°	634.3	665.7	708.6	753.8
30°	610.6	636.6	676.4	730.8
32.5°	583.0	613.6	655.0	708.6
35°	558.5	584.5	623.6	678.0
37.5°	529.3	557.7	601.4	649.6
40°	504.1	531.6	573.0	618.2
42.5°	473.4	502.5	543.9	582.2
45°	448.9	475.7	508.7	543.9
47.5°	419.0	447.4	479.6	504.1
50°	392.2	418.3	443.5	464.2
52.5°	363.1	386.9	409.8	425.2
55°	336.3	354.7	373.1	383.8
57.5°	304.9	322.5	337.8	344.0
60°	277.3	291.9	301.8	308.7
62.5°	248.2	258.9	266.6	270.4
65°	219.9	227.5	231.4	235.2
67.5°	190.7	197.6	199.9	204.5
70°	160.1	167.8	169.3	171.6
72.5°	137.1	137.1	140.2	143.3
75°	109.5	111.1	112.6	112.6
77.5°	85.8	85.8	87.3	88.1
80°	62.8	63.6	63.6	62.8
82.5°	42.9	44.4	42.9	42.1
85°	23.7	26.8	25.3	25.3
87.5°	10.0	10.0	11.5	10.0
90°	2.7	2.0	1.2	0.4
92.5°	6.8	7.3	7.7	8.2
95°	12.0	15.3	18.5	21.8
97.5°	32.9	35.2	37.4	39.6
100°	65.1	63.5	61.9	60.3
102.5°	87.0	85.9	84.9	83.9
105°	109.0	108.1	107.3	106.4
107.5°	132.4	131.7	131.0	130.3
110°	156.1	155.5	154.8	154.2

TEST NUMBER: P1010941

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	178.8	178.2	177.7	177.1
115°	201.0	200.5	200.1	199.6
117.5°	223.4	222.8	222.3	221.7
120°	244.2	243.5	242.8	242.1
122.5°	264.5	263.9	263.4	262.8
125°	283.2	282.6	281.9	281.3
127.5°	301.8	301.2	300.5	299.9
130°	318.9	318.3	317.6	317.0
132.5°	335.4	334.7	334.1	333.5
135°	351.7	351.2	350.7	350.2
137.5°	366.4	365.8	365.1	364.5
140°	380.3	379.8	379.3	378.8
142.5°	393.5	393.0	392.5	392.0
145°	405.9	405.3	404.8	404.2
147.5°	417.1	416.7	416.3	415.9
150°	427.4	427.1	426.9	426.7
152.5°	436.5	436.4	436.4	436.3
155°	444.7	444.9	445.0	445.2
157.5°	452.4	452.4	452.4	452.4
160°	458.5	458.6	458.7	458.8
162.5°	464.2	464.4	464.7	464.9
165°	468.8	469.0	469.3	469.5
167.5°	472.5	472.8	473.1	473.4
170°	475.7	476.0	476.3	476.6
172.5°	477.6	478.0	478.4	478.8
175°	479.4	479.8	480.2	480.6
177.5°	480.1	480.5	480.9	481.3
180°	480.6	480.6	480.6	480.6

(END OF REPORT)