

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: P1031197

Luminaire Tested: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031197
REPORT IS A COMBINATION OF REPORTS P994521 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

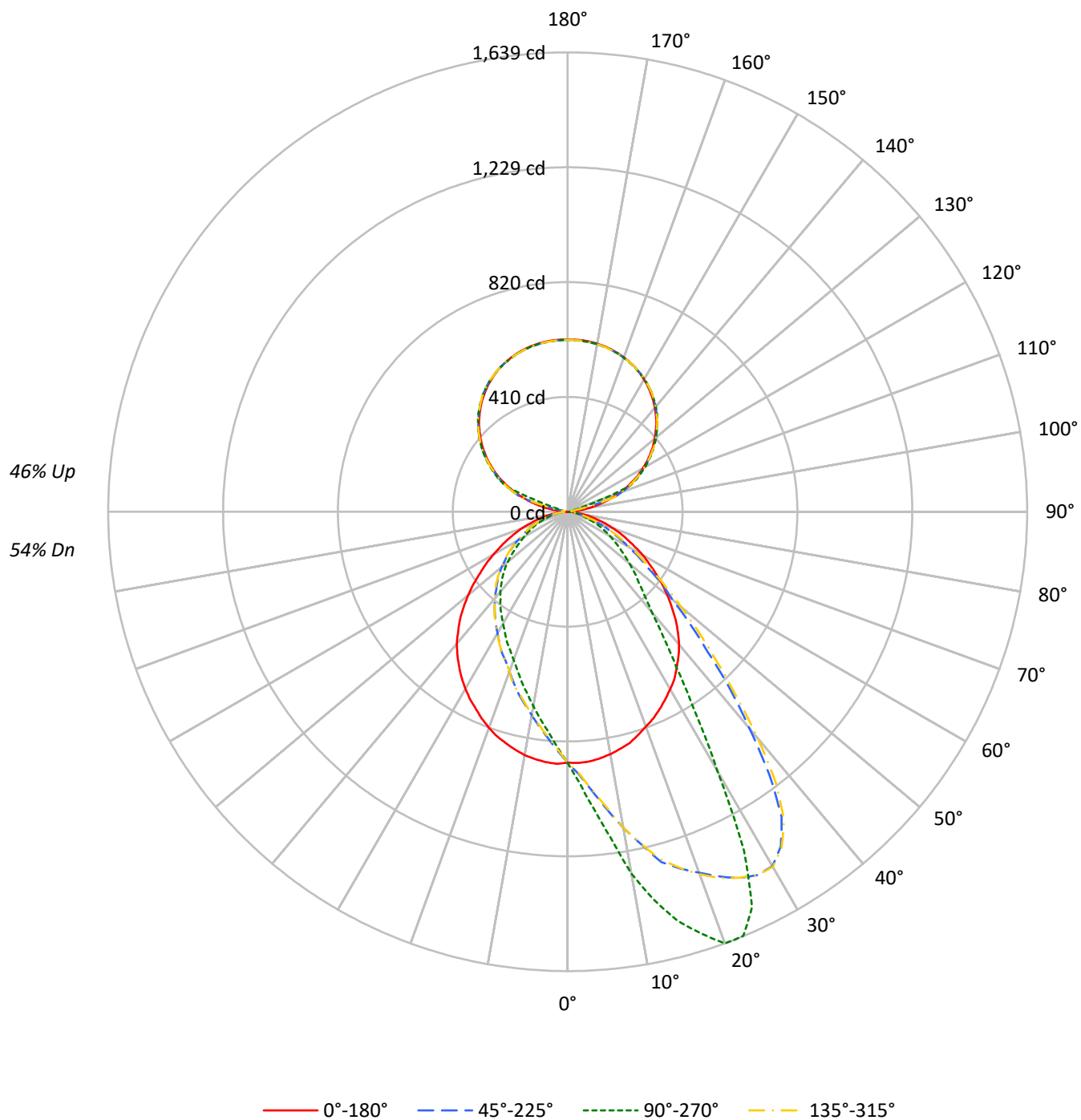
Lumens per Lamp: N/A
Luminaire Lumens: 4101.0 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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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CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54	54	54
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52	47	47	47
2	91	84	78	73	84	78	73	69	68	64	60	58	55	52	48	47	45	40	40	40
3	83	74	67	62	77	69	63	58	60	55	52	51	48	45	43	41	39	35	35	35
4	77	66	59	53	71	62	55	50	54	49	45	46	42	39	39	36	34	31	31	31
5	71	59	51	46	65	56	49	43	48	43	39	42	38	34	36	33	30	27	27	27
6	65	53	46	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24	24	24
7	60	48	41	35	56	46	39	34	40	34	30	35	30	27	30	27	24	21	21	21
8	56	44	37	31	52	42	35	30	37	31	27	32	28	24	28	24	22	19	19	19
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	25	22	20	18	18	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16	16	16

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	2.1
10°-20°	275.1	6.7
20°-30°	433.2	10.6
30°-40°	450.5	11.0
40°-50°	385.4	9.4
50°-60°	293.8	7.2
60°-70°	188.2	4.6
70°-80°	90.2	2.2
80°-90°	24.9	0.6
90°-100°	21.7	0.5
100°-110°	104.7	2.6
110°-120°	256.5	6.3
120°-130°	325.6	7.9
130°-140°	347.9	8.5
140°-150°	325.3	7.9
150°-160°	262.4	6.4
160°-170°	169.3	4.1
170°-180°	58.4	1.4
0°-30°	796.2	19.4
0°-40°	1246.6	30.4
0°-60°	1925.8	47.0
0°-90°	2229.2	54.4
90°-120°	382.9	9.3
90°-150°	1381.7	33.7
90°-180°	1872.0	45.6
0°-180°	4101.0	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	14	0	14	0	3
95°	28	17	28	17	28	33
105°	136	20	136	20	136	144
115°	255	268	255	268	255	252
125°	359	367	359	367	359	321
135°	448	452	448	452	448	345
145°	516	521	516	521	516	323
155°	569	568	569	568	569	262
165°	600	598	600	598	600	169
175°	614	612	614	612	614	58
180°	614	614	614	614	614	

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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°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.6	10.9
92.5°	10.5	9.9	9.3	8.7	8.1	7.8	8.3	9.2	10.1	11.0	11.9
95°	27.8	23.6	19.5	15.3	11.2	9.1	9.7	10.8	11.9	13.0	14.1
97.5°	50.6	47.8	45.0	42.1	39.3	37.9	35.3	30.1	25.0	19.8	14.6
100°	77.1	79.1	81.1	83.2	85.2	86.2	78.3	62.5	46.7	30.9	15.1
102.5°	107.2	108.5	109.8	111.1	112.4	113.1	104.3	86.7	69.0	51.4	33.8
105°	135.9	137.0	138.2	139.3	140.4	141.0	136.4	127.3	118.2	109.0	99.9
107.5°	166.5	167.4	168.3	169.2	170.1	170.6	171.4	172.9	174.4	175.9	177.4
110°	197.1	197.9	198.7	199.5	200.3	200.7	201.3	202.4	203.5	204.6	205.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	226.3	227.0	227.7	228.4	229.1	229.4	230.0	231.1	232.2	233.4	234.5
115°	255.0	255.6	256.2	256.8	257.4	257.7	258.2	259.1	260.0	260.9	261.8
117.5°	283.3	284.0	284.7	285.4	286.1	286.5	286.7	287.2	287.7	288.2	288.7
120°	309.3	310.2	311.1	312.0	312.9	313.4	313.5	313.8	314.1	314.4	314.7
122.5°	335.7	336.4	337.1	337.8	338.5	338.9	339.1	339.5	339.9	340.3	340.7
125°	359.4	360.2	361.0	361.9	362.7	363.1	363.3	363.7	364.1	364.5	364.9
127.5°	383.2	384.0	384.8	385.6	386.4	386.8	387.1	387.6	388.1	388.6	389.1
130°	405.1	405.9	406.7	407.5	408.3	408.7	408.9	409.3	409.7	410.1	410.5
132.5°	426.0	426.8	427.6	428.5	429.3	429.7	429.9	430.2	430.5	430.8	431.1
135°	447.5	448.1	448.7	449.3	449.9	450.2	450.4	450.8	451.2	451.6	452.0
137.5°	465.7	466.5	467.3	468.2	469.0	469.4	469.5	469.7	469.9	470.1	470.3
140°	484.0	484.6	485.2	485.8	486.4	486.7	486.9	487.2	487.5	487.8	488.1
142.5°	500.9	501.5	502.1	502.7	503.3	503.6	503.8	504.1	504.4	504.7	505.0
145°	516.4	517.1	517.8	518.5	519.2	519.6	519.7	519.9	520.1	520.3	520.5
147.5°	531.4	531.9	532.4	532.9	533.4	533.7	533.8	534.0	534.2	534.4	534.6
150°	545.1	545.4	545.7	546.0	546.3	546.5	546.6	546.8	547.0	547.2	547.4
152.5°	557.4	557.5	557.6	557.7	557.8	557.9	557.9	558.0	558.1	558.2	558.3
155°	568.8	568.6	568.4	568.2	568.0	567.9	568.0	568.1	568.2	568.3	568.4
157.5°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.8	577.7	577.6	577.5
160°	586.2	586.1	586.0	585.9	585.8	585.7	585.6	585.5	585.4	585.3	585.2
162.5°	593.9	593.6	593.3	593.0	592.7	592.5	592.5	592.4	592.3	592.2	592.1
165°	599.8	599.5	599.2	598.9	598.6	598.5	598.4	598.3	598.2	598.1	598.0
167.5°	604.9	604.5	604.1	603.6	603.2	603.0	603.0	603.0	603.0	603.0	603.0
170°	609.0	608.6	608.2	607.7	607.3	607.1	607.1	607.1	607.1	607.1	607.1
172.5°	611.7	611.2	610.7	610.2	609.7	609.4	609.5	609.6	609.7	609.8	609.9
175°	614.0	613.5	613.0	612.5	612.0	611.7	611.8	611.9	612.0	612.1	612.2
177.5°	614.9	614.4	613.9	613.4	612.9	612.6	612.7	612.8	612.9	613.0	613.1
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

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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°	11.3	11.7	12.2	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	12.6	13.3	14.0	14.7	15.1	15.1	15.2	15.3	15.4	15.5	15.4
95°	14.8	15.5	16.2	16.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	15.4	16.2	17.0	17.8	18.2	18.3	18.4	18.5	18.6	18.7	18.6
100°	15.9	16.7	17.5	18.3	18.7	18.8	18.9	19.0	19.1	19.2	19.1
102.5°	30.4	27.1	23.7	20.4	18.7	18.8	19.0	19.2	19.4	19.6	19.4
105°	82.0	64.0	46.1	28.2	19.2	19.3	19.5	19.7	19.9	20.1	19.9
107.5°	161.8	146.2	130.6	115.0	107.2	100.6	87.3	74.0	60.7	47.4	60.7
110°	202.4	199.0	195.7	192.4	190.7	183.4	168.9	154.4	139.9	125.4	139.9

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	235.4	236.3	237.2	238.1	238.6	238.5	238.3	238.1	237.9	237.7	237.9
115°	262.8	263.8	264.9	265.9	266.4	266.6	267.0	267.4	267.8	268.2	267.8
117.5°	289.5	290.3	291.2	292.0	292.4	292.4	292.5	292.6	292.7	292.8	292.7
120°	315.5	316.3	317.2	318.0	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	341.2	341.7	342.2	342.7	343.0	343.1	343.2	343.3	343.4	343.5	343.4
125°	365.1	365.3	365.5	365.7	365.8	365.9	366.1	366.3	366.5	366.7	366.5
127.5°	389.4	389.7	390.0	390.3	390.5	390.4	390.2	390.0	389.8	389.6	389.8
130°	410.9	411.3	411.8	412.2	412.4	412.3	412.1	411.8	411.6	411.4	411.6
132.5°	431.5	431.9	432.3	432.7	432.9	432.7	432.4	432.1	431.8	431.5	431.8
135°	452.3	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	452.3
137.5°	470.8	471.3	471.8	472.3	472.6	472.5	472.3	472.1	471.9	471.7	471.9
140°	488.5	488.9	489.3	489.7	489.9	489.8	489.6	489.4	489.2	489.0	489.2
142.5°	505.3	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	505.3
145°	520.7	520.9	521.1	521.3	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	534.8	535.0	535.2	535.4	535.5	535.2	534.7	534.2	533.7	533.2	533.7
150°	547.6	547.8	548.0	548.2	548.3	548.1	547.8	547.5	547.2	546.9	547.2
152.5°	558.7	559.1	559.6	560.0	560.2	559.9	559.4	558.9	558.4	557.9	558.4
155°	568.9	569.4	569.9	570.4	570.6	570.3	569.7	569.1	568.5	567.9	568.5
157.5°	578.1	578.7	579.3	579.9	580.2	579.8	579.0	578.2	577.4	576.6	577.4
160°	585.8	586.4	587.1	587.7	588.0	587.6	586.9	586.2	585.5	584.8	585.5
162.5°	592.8	593.5	594.2	594.9	595.3	595.0	594.4	593.7	593.1	592.5	593.1
165°	598.8	599.6	600.5	601.3	601.7	601.3	600.6	599.9	599.2	598.5	599.2
167.5°	603.8	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.8
170°	607.9	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.9
172.5°	610.7	611.5	612.3	613.1	613.5	613.0	612.1	611.2	610.3	609.4	610.3
175°	612.9	613.6	614.3	615.0	615.3	614.9	614.1	613.3	612.5	611.7	612.5
177.5°	613.9	614.7	615.5	616.3	616.7	616.2	615.2	614.2	613.2	612.2	613.2
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	13.3	13.1	12.9	12.8	12.6	12.2	11.7	11.3	10.9	9.6	8.3
92.5°	15.3	15.2	15.1	15.1	14.7	14.0	13.3	12.6	11.9	11.0	10.1
95°	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.8	14.1	13.0	11.9
97.5°	18.5	18.4	18.3	18.2	17.8	17.0	16.2	15.4	14.6	19.8	25.0
100°	19.0	18.9	18.8	18.7	18.3	17.5	16.7	15.9	15.1	30.9	46.7
102.5°	19.2	19.0	18.8	18.7	20.4	23.7	27.1	30.4	33.8	51.4	69.0
105°	19.7	19.5	19.3	19.2	28.2	46.1	64.0	82.0	99.9	109.0	118.2
107.5°	74.0	87.3	100.6	107.2	115.0	130.6	146.2	161.8	177.4	175.9	174.4
110°	154.4	168.9	183.4	190.7	192.4	195.7	199.0	202.4	205.7	204.6	203.5

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CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	238.1	238.3	238.5	238.6	238.1	237.2	236.3	235.4	234.5	233.4	232.2
115°	267.4	267.0	266.6	266.4	265.9	264.9	263.8	262.8	261.8	260.9	260.0
117.5°	292.6	292.5	292.4	292.4	292.0	291.2	290.3	289.5	288.7	288.2	287.7
120°	318.4	318.4	318.4	318.4	318.0	317.2	316.3	315.5	314.7	314.4	314.1
122.5°	343.3	343.2	343.1	343.0	342.7	342.2	341.7	341.2	340.7	340.3	339.9
125°	366.3	366.1	365.9	365.8	365.7	365.5	365.3	365.1	364.9	364.5	364.1
127.5°	390.0	390.2	390.4	390.5	390.3	390.0	389.7	389.4	389.1	388.6	388.1
130°	411.8	412.1	412.3	412.4	412.2	411.8	411.3	410.9	410.5	410.1	409.7
132.5°	432.1	432.4	432.7	432.9	432.7	432.3	431.9	431.5	431.1	430.8	430.5
135°	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	451.6	451.2
137.5°	472.1	472.3	472.5	472.6	472.3	471.8	471.3	470.8	470.3	470.1	469.9
140°	489.4	489.6	489.8	489.9	489.7	489.3	488.9	488.5	488.1	487.8	487.5
142.5°	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	504.7	504.4
145°	521.4	521.4	521.4	521.4	521.3	521.1	520.9	520.7	520.5	520.3	520.1
147.5°	534.2	534.7	535.2	535.5	535.4	535.2	535.0	534.8	534.6	534.4	534.2
150°	547.5	547.8	548.1	548.3	548.2	548.0	547.8	547.6	547.4	547.2	547.0
152.5°	558.9	559.4	559.9	560.2	560.0	559.6	559.1	558.7	558.3	558.2	558.1
155°	569.1	569.7	570.3	570.6	570.4	569.9	569.4	568.9	568.4	568.3	568.2
157.5°	578.2	579.0	579.8	580.2	579.9	579.3	578.7	578.1	577.5	577.6	577.7
160°	586.2	586.9	587.6	588.0	587.7	587.1	586.4	585.8	585.2	585.3	585.4
162.5°	593.7	594.4	595.0	595.3	594.9	594.2	593.5	592.8	592.1	592.2	592.3
165°	599.9	600.6	601.3	601.7	601.3	600.5	599.6	598.8	598.0	598.1	598.2
167.5°	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.0	603.0
170°	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.1	607.1
172.5°	611.2	612.1	613.0	613.5	613.1	612.3	611.5	610.7	609.9	609.8	609.7
175°	613.3	614.1	614.9	615.3	615.0	614.3	613.6	612.9	612.2	612.1	612.0
177.5°	614.2	615.2	616.2	616.7	616.3	615.5	614.7	613.9	613.1	613.0	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	7.0	5.7	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	9.2	8.3	7.8	8.1	8.7	9.3	9.9	10.5	9.9	9.3	8.7
95°	10.8	9.7	9.1	11.2	15.3	19.5	23.6	27.8	23.6	19.5	15.3
97.5°	30.1	35.3	37.9	39.3	42.1	45.0	47.8	50.6	47.8	45.0	42.1
100°	62.5	78.3	86.2	85.2	83.2	81.1	79.1	77.1	79.1	81.1	83.2
102.5°	86.7	104.3	113.1	112.4	111.1	109.8	108.5	107.2	108.5	109.8	111.1
105°	127.3	136.4	141.0	140.4	139.3	138.2	137.0	135.9	137.0	138.2	139.3
107.5°	172.9	171.4	170.6	170.1	169.2	168.3	167.4	166.5	167.4	168.3	169.2
110°	202.4	201.3	200.7	200.3	199.5	198.7	197.9	197.1	197.9	198.7	199.5

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	231.1	230.0	229.4	229.1	228.4	227.7	227.0	226.3	227.0	227.7	228.4
115°	259.1	258.2	257.7	257.4	256.8	256.2	255.6	255.0	255.6	256.2	256.8
117.5°	287.2	286.7	286.5	286.1	285.4	284.7	284.0	283.3	284.0	284.7	285.4
120°	313.8	313.5	313.4	312.9	312.0	311.1	310.2	309.3	310.2	311.1	312.0
122.5°	339.5	339.1	338.9	338.5	337.8	337.1	336.4	335.7	336.4	337.1	337.8
125°	363.7	363.3	363.1	362.7	361.9	361.0	360.2	359.4	360.2	361.0	361.9
127.5°	387.6	387.1	386.8	386.4	385.6	384.8	384.0	383.2	384.0	384.8	385.6
130°	409.3	408.9	408.7	408.3	407.5	406.7	405.9	405.1	405.9	406.7	407.5
132.5°	430.2	429.9	429.7	429.3	428.5	427.6	426.8	426.0	426.8	427.6	428.5
135°	450.8	450.4	450.2	449.9	449.3	448.7	448.1	447.5	448.1	448.7	449.3
137.5°	469.7	469.5	469.4	469.0	468.2	467.3	466.5	465.7	466.5	467.3	468.2
140°	487.2	486.9	486.7	486.4	485.8	485.2	484.6	484.0	484.6	485.2	485.8
142.5°	504.1	503.8	503.6	503.3	502.7	502.1	501.5	500.9	501.5	502.1	502.7
145°	519.9	519.7	519.6	519.2	518.5	517.8	517.1	516.4	517.1	517.8	518.5
147.5°	534.0	533.8	533.7	533.4	532.9	532.4	531.9	531.4	531.9	532.4	532.9
150°	546.8	546.6	546.5	546.3	546.0	545.7	545.4	545.1	545.4	545.7	546.0
152.5°	558.0	557.9	557.9	557.8	557.7	557.6	557.5	557.4	557.5	557.6	557.7
155°	568.1	568.0	567.9	568.0	568.2	568.4	568.6	568.8	568.6	568.4	568.2
157.5°	577.8	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
160°	585.5	585.6	585.7	585.8	585.9	586.0	586.1	586.2	586.1	586.0	585.9
162.5°	592.4	592.5	592.5	592.7	593.0	593.3	593.6	593.9	593.6	593.3	593.0
165°	598.3	598.4	598.5	598.6	598.9	599.2	599.5	599.8	599.5	599.2	598.9
167.5°	603.0	603.0	603.0	603.2	603.6	604.1	604.5	604.9	604.5	604.1	603.6
170°	607.1	607.1	607.1	607.3	607.7	608.2	608.6	609.0	608.6	608.2	607.7
172.5°	609.6	609.5	609.4	609.7	610.2	610.7	611.2	611.7	611.2	610.7	610.2
175°	611.9	611.8	611.7	612.0	612.5	613.0	613.5	614.0	613.5	613.0	612.5
177.5°	612.8	612.7	612.6	612.9	613.4	613.9	614.4	614.9	614.4	613.9	613.4
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	4.5	5.0	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.2	12.6
92.5°	8.1	7.8	8.3	9.2	10.1	11.0	11.9	12.6	13.3	14.0	14.7
95°	11.2	9.1	9.7	10.8	11.9	13.0	14.1	14.8	15.5	16.2	16.9
97.5°	39.3	37.9	35.3	30.1	25.0	19.8	14.6	15.4	16.2	17.0	17.8
100°	85.2	86.2	78.3	62.5	46.7	30.9	15.1	15.9	16.7	17.5	18.3
102.5°	112.4	113.1	104.3	86.7	69.0	51.4	33.8	30.4	27.1	23.7	20.4
105°	140.4	141.0	136.4	127.3	118.2	109.0	99.9	82.0	64.0	46.1	28.2
107.5°	170.1	170.6	171.4	172.9	174.4	175.9	177.4	161.8	146.2	130.6	115.0
110°	200.3	200.7	201.3	202.4	203.5	204.6	205.7	202.4	199.0	195.7	192.4

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	229.1	229.4	230.0	231.1	232.2	233.4	234.5	235.4	236.3	237.2	238.1
115°	257.4	257.7	258.2	259.1	260.0	260.9	261.8	262.8	263.8	264.9	265.9
117.5°	286.1	286.5	286.7	287.2	287.7	288.2	288.7	289.5	290.3	291.2	292.0
120°	312.9	313.4	313.5	313.8	314.1	314.4	314.7	315.5	316.3	317.2	318.0
122.5°	338.5	338.9	339.1	339.5	339.9	340.3	340.7	341.2	341.7	342.2	342.7
125°	362.7	363.1	363.3	363.7	364.1	364.5	364.9	365.1	365.3	365.5	365.7
127.5°	386.4	386.8	387.1	387.6	388.1	388.6	389.1	389.4	389.7	390.0	390.3
130°	408.3	408.7	408.9	409.3	409.7	410.1	410.5	410.9	411.3	411.8	412.2
132.5°	429.3	429.7	429.9	430.2	430.5	430.8	431.1	431.5	431.9	432.3	432.7
135°	449.9	450.2	450.4	450.8	451.2	451.6	452.0	452.3	452.6	452.9	453.2
137.5°	469.0	469.4	469.5	469.7	469.9	470.1	470.3	470.8	471.3	471.8	472.3
140°	486.4	486.7	486.9	487.2	487.5	487.8	488.1	488.5	488.9	489.3	489.7
142.5°	503.3	503.6	503.8	504.1	504.4	504.7	505.0	505.3	505.6	505.9	506.2
145°	519.2	519.6	519.7	519.9	520.1	520.3	520.5	520.7	520.9	521.1	521.3
147.5°	533.4	533.7	533.8	534.0	534.2	534.4	534.6	534.8	535.0	535.2	535.4
150°	546.3	546.5	546.6	546.8	547.0	547.2	547.4	547.6	547.8	548.0	548.2
152.5°	557.8	557.9	557.9	558.0	558.1	558.2	558.3	558.7	559.1	559.6	560.0
155°	568.0	567.9	568.0	568.1	568.2	568.3	568.4	568.9	569.4	569.9	570.4
157.5°	577.9	577.9	577.9	577.8	577.7	577.6	577.5	578.1	578.7	579.3	579.9
160°	585.8	585.7	585.6	585.5	585.4	585.3	585.2	585.8	586.4	587.1	587.7
162.5°	592.7	592.5	592.5	592.4	592.3	592.2	592.1	592.8	593.5	594.2	594.9
165°	598.6	598.5	598.4	598.3	598.2	598.1	598.0	598.8	599.6	600.5	601.3
167.5°	603.2	603.0	603.0	603.0	603.0	603.0	603.0	603.8	604.6	605.5	606.3
170°	607.3	607.1	607.1	607.1	607.1	607.1	607.1	607.9	608.7	609.6	610.4
172.5°	609.7	609.4	609.5	609.6	609.7	609.8	609.9	610.7	611.5	612.3	613.1
175°	612.0	611.7	611.8	611.9	612.0	612.1	612.2	612.9	613.6	614.3	615.0
177.5°	612.9	612.6	612.7	612.8	612.9	613.0	613.1	613.9	614.7	615.5	616.3
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	12.8	12.9	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.8
92.5°	15.1	15.1	15.2	15.3	15.4	15.5	15.4	15.3	15.2	15.1	15.1
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	18.2	18.3	18.4	18.5	18.6	18.7	18.6	18.5	18.4	18.3	18.2
100°	18.7	18.8	18.9	19.0	19.1	19.2	19.1	19.0	18.9	18.8	18.7
102.5°	18.7	18.8	19.0	19.2	19.4	19.6	19.4	19.2	19.0	18.8	18.7
105°	19.2	19.3	19.5	19.7	19.9	20.1	19.9	19.7	19.5	19.3	19.2
107.5°	107.2	100.6	87.3	74.0	60.7	47.4	60.7	74.0	87.3	100.6	107.2
110°	190.7	183.4	168.9	154.4	139.9	125.4	139.9	154.4	168.9	183.4	190.7

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	238.6	238.5	238.3	238.1	237.9	237.7	237.9	238.1	238.3	238.5	238.6
115°	266.4	266.6	267.0	267.4	267.8	268.2	267.8	267.4	267.0	266.6	266.4
117.5°	292.4	292.4	292.5	292.6	292.7	292.8	292.7	292.6	292.5	292.4	292.4
120°	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	343.0	343.1	343.2	343.3	343.4	343.5	343.4	343.3	343.2	343.1	343.0
125°	365.8	365.9	366.1	366.3	366.5	366.7	366.5	366.3	366.1	365.9	365.8
127.5°	390.5	390.4	390.2	390.0	389.8	389.6	389.8	390.0	390.2	390.4	390.5
130°	412.4	412.3	412.1	411.8	411.6	411.4	411.6	411.8	412.1	412.3	412.4
132.5°	432.9	432.7	432.4	432.1	431.8	431.5	431.8	432.1	432.4	432.7	432.9
135°	453.4	453.2	452.9	452.6	452.3	452.0	452.3	452.6	452.9	453.2	453.4
137.5°	472.6	472.5	472.3	472.1	471.9	471.7	471.9	472.1	472.3	472.5	472.6
140°	489.9	489.8	489.6	489.4	489.2	489.0	489.2	489.4	489.6	489.8	489.9
142.5°	506.3	506.2	505.9	505.6	505.3	505.0	505.3	505.6	505.9	506.2	506.3
145°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	535.5	535.2	534.7	534.2	533.7	533.2	533.7	534.2	534.7	535.2	535.5
150°	548.3	548.1	547.8	547.5	547.2	546.9	547.2	547.5	547.8	548.1	548.3
152.5°	560.2	559.9	559.4	558.9	558.4	557.9	558.4	558.9	559.4	559.9	560.2
155°	570.6	570.3	569.7	569.1	568.5	567.9	568.5	569.1	569.7	570.3	570.6
157.5°	580.2	579.8	579.0	578.2	577.4	576.6	577.4	578.2	579.0	579.8	580.2
160°	588.0	587.6	586.9	586.2	585.5	584.8	585.5	586.2	586.9	587.6	588.0
162.5°	595.3	595.0	594.4	593.7	593.1	592.5	593.1	593.7	594.4	595.0	595.3
165°	601.7	601.3	600.6	599.9	599.2	598.5	599.2	599.9	600.6	601.3	601.7
167.5°	606.7	606.3	605.5	604.6	603.8	603.0	603.8	604.6	605.5	606.3	606.7
170°	610.8	610.4	609.6	608.7	607.9	607.1	607.9	608.7	609.6	610.4	610.8
172.5°	613.5	613.0	612.1	611.2	610.3	609.4	610.3	611.2	612.1	613.0	613.5
175°	615.3	614.9	614.1	613.3	612.5	611.7	612.5	613.3	614.1	614.9	615.3
177.5°	616.7	616.2	615.2	614.2	613.2	612.2	613.2	614.2	615.2	616.2	616.7
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	12.6	12.2	11.7	11.3	10.9	9.6	8.3	7.0	5.7	5.0	4.5
92.5°	14.7	14.0	13.3	12.6	11.9	11.0	10.1	9.2	8.3	7.8	8.1
95°	16.9	16.2	15.5	14.8	14.1	13.0	11.9	10.8	9.7	9.1	11.2
97.5°	17.8	17.0	16.2	15.4	14.6	19.8	25.0	30.1	35.3	37.9	39.3
100°	18.3	17.5	16.7	15.9	15.1	30.9	46.7	62.5	78.3	86.2	85.2
102.5°	20.4	23.7	27.1	30.4	33.8	51.4	69.0	86.7	104.3	113.1	112.4
105°	28.2	46.1	64.0	82.0	99.9	109.0	118.2	127.3	136.4	141.0	140.4
107.5°	115.0	130.6	146.2	161.8	177.4	175.9	174.4	172.9	171.4	170.6	170.1
110°	192.4	195.7	199.0	202.4	205.7	204.6	203.5	202.4	201.3	200.7	200.3

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	238.1	237.2	236.3	235.4	234.5	233.4	232.2	231.1	230.0	229.4	229.1
115°	265.9	264.9	263.8	262.8	261.8	260.9	260.0	259.1	258.2	257.7	257.4
117.5°	292.0	291.2	290.3	289.5	288.7	288.2	287.7	287.2	286.7	286.5	286.1
120°	318.0	317.2	316.3	315.5	314.7	314.4	314.1	313.8	313.5	313.4	312.9
122.5°	342.7	342.2	341.7	341.2	340.7	340.3	339.9	339.5	339.1	338.9	338.5
125°	365.7	365.5	365.3	365.1	364.9	364.5	364.1	363.7	363.3	363.1	362.7
127.5°	390.3	390.0	389.7	389.4	389.1	388.6	388.1	387.6	387.1	386.8	386.4
130°	412.2	411.8	411.3	410.9	410.5	410.1	409.7	409.3	408.9	408.7	408.3
132.5°	432.7	432.3	431.9	431.5	431.1	430.8	430.5	430.2	429.9	429.7	429.3
135°	453.2	452.9	452.6	452.3	452.0	451.6	451.2	450.8	450.4	450.2	449.9
137.5°	472.3	471.8	471.3	470.8	470.3	470.1	469.9	469.7	469.5	469.4	469.0
140°	489.7	489.3	488.9	488.5	488.1	487.8	487.5	487.2	486.9	486.7	486.4
142.5°	506.2	505.9	505.6	505.3	505.0	504.7	504.4	504.1	503.8	503.6	503.3
145°	521.3	521.1	520.9	520.7	520.5	520.3	520.1	519.9	519.7	519.6	519.2
147.5°	535.4	535.2	535.0	534.8	534.6	534.4	534.2	534.0	533.8	533.7	533.4
150°	548.2	548.0	547.8	547.6	547.4	547.2	547.0	546.8	546.6	546.5	546.3
152.5°	560.0	559.6	559.1	558.7	558.3	558.2	558.1	558.0	557.9	557.9	557.8
155°	570.4	569.9	569.4	568.9	568.4	568.3	568.2	568.1	568.0	567.9	568.0
157.5°	579.9	579.3	578.7	578.1	577.5	577.6	577.7	577.8	577.9	577.9	577.9
160°	587.7	587.1	586.4	585.8	585.2	585.3	585.4	585.5	585.6	585.7	585.8
162.5°	594.9	594.2	593.5	592.8	592.1	592.2	592.3	592.4	592.5	592.5	592.7
165°	601.3	600.5	599.6	598.8	598.0	598.1	598.2	598.3	598.4	598.5	598.6
167.5°	606.3	605.5	604.6	603.8	603.0	603.0	603.0	603.0	603.0	603.0	603.2
170°	610.4	609.6	608.7	607.9	607.1	607.1	607.1	607.1	607.1	607.1	607.3
172.5°	613.1	612.3	611.5	610.7	609.9	609.8	609.7	609.6	609.5	609.4	609.7
175°	615.0	614.3	613.6	612.9	612.2	612.1	612.0	611.9	611.8	611.7	612.0
177.5°	616.3	615.5	614.7	613.9	613.1	613.0	612.9	612.8	612.7	612.6	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-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°	3.5	2.5	1.5	0.5
92.5°	8.7	9.3	9.9	10.5
95°	15.3	19.5	23.6	27.8
97.5°	42.1	45.0	47.8	50.6
100°	83.2	81.1	79.1	77.1
102.5°	111.1	109.8	108.5	107.2
105°	139.3	138.2	137.0	135.9
107.5°	169.2	168.3	167.4	166.5
110°	199.5	198.7	197.9	197.1



TEST NUMBER: P1031197

CATALOG NUMBER: S123RDIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	228.4	227.7	227.0	226.3
115°	256.8	256.2	255.6	255.0
117.5°	285.4	284.7	284.0	283.3
120°	312.0	311.1	310.2	309.3
122.5°	337.8	337.1	336.4	335.7
125°	361.9	361.0	360.2	359.4
127.5°	385.6	384.8	384.0	383.2
130°	407.5	406.7	405.9	405.1
132.5°	428.5	427.6	426.8	426.0
135°	449.3	448.7	448.1	447.5
137.5°	468.2	467.3	466.5	465.7
140°	485.8	485.2	484.6	484.0
142.5°	502.7	502.1	501.5	500.9
145°	518.5	517.8	517.1	516.4
147.5°	532.9	532.4	531.9	531.4
150°	546.0	545.7	545.4	545.1
152.5°	557.7	557.6	557.5	557.4
155°	568.2	568.4	568.6	568.8
157.5°	577.9	577.9	577.9	577.9
160°	585.9	586.0	586.1	586.2
162.5°	593.0	593.3	593.6	593.9
165°	598.9	599.2	599.5	599.8
167.5°	603.6	604.1	604.5	604.9
170°	607.7	608.2	608.6	609.0
172.5°	610.2	610.7	611.2	611.7
175°	612.5	613.0	613.5	614.0
177.5°	613.4	613.9	614.4	614.9
180°	614.0	614.0	614.0	614.0

(END OF REPORT)