

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: P1010949

Luminaire Tested: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010949
REPORT IS A COMBINATION OF REPORTS P993445 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

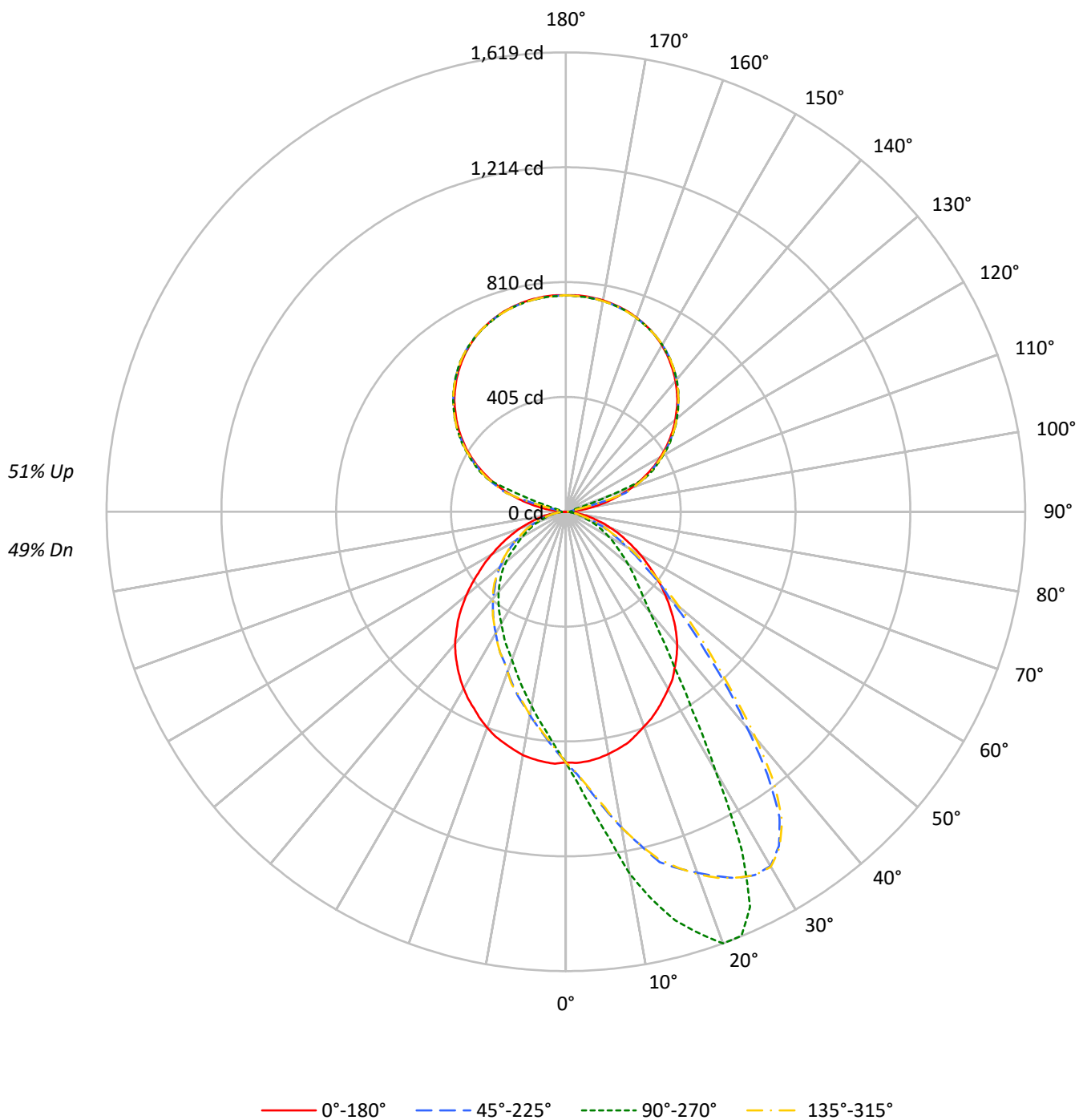
Lumens per Lamp: N/A
Luminaire Lumens: 4527.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



TEST NUMBER: P1010949

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	94	90	87	90	87	84	81	73	71	69	61	59	58	49	48	47
2	90	83	77	72	82	76	71	67	65	61	58	54	52	49	44	42	41
3	82	73	66	61	76	68	62	57	58	53	49	48	45	42	40	37	35
4	75	65	58	52	69	60	54	49	52	47	43	43	40	37	36	33	31
5	69	58	50	45	64	54	47	42	46	41	37	39	35	32	32	30	27
6	64	52	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24
7	59	47	40	34	55	44	37	33	38	33	29	33	28	25	27	24	22
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	25	22	20
9	51	40	32	27	47	37	30	26	32	27	23	28	23	20	23	20	18
10	48	36	29	25	44	34	28	23	30	25	21	25	21	19	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9510	9510	9510	9510
5°	9518	10953	9542	8126
10°	9434	13222	9475	7098
15°	9336	15006	9336	6258
20°	9145	16186	9196	5551
25°	9004	15378	8987	5066
30°	8841	10655	8823	4590
35°	8645	6841	8606	4232
40°	8401	4831	8359	3876
45°	7977	3865	7965	3528
50°	7454	3234	7430	3122
55°	6867	2665	6811	2647
60°	6289	2203	6227	2251
65°	5613	1763	5649	1908
70°	4989	1225	5124	1543
75°	4230	909	4401	1186
80°	3366	603	3654	889
85°	2401	286	2613	554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 12696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.9
10°-20°	271.6	6.0
20°-30°	427.8	9.4
30°-40°	444.8	9.8
40°-50°	380.6	8.4
50°-60°	290.1	6.4
60°-70°	185.9	4.1
70°-80°	89.1	2.0
80°-90°	24.9	0.6
90°-100°	26.9	0.6
100°-110°	130.0	2.9
110°-120°	318.7	7.0
120°-130°	404.6	8.9
130°-140°	432.2	9.5
140°-150°	404.2	8.9
150°-160°	326.0	7.2
160°-170°	210.4	4.6
170°-180°	72.5	1.6
0°-30°	786.1	17.4
0°-40°	1231.0	27.2
0°-60°	1901.6	42.0
0°-90°	2201.5	48.6
90°-120°	475.6	10.5
90°-150°	1716.6	37.9
90°-180°	2325.0	51.4
0°-180°	4527.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	884	884	884	884	884	
5°	883	1049	885	778	883	84
15°	843	1491	843	622	843	237
25°	767	1536	766	506	767	353
35°	669	666	666	412	669	419
45°	537	356	536	324	537	414
55°	379	223	376	222	379	340
65°	232	129	234	139	232	232
75°	111	54	116	71	111	120
85°	25	13	27	25	25	28
90°	1	17	1	17	1	3
95°	35	22	35	22	35	41
105°	169	25	169	25	169	179
115°	317	333	317	333	317	313
125°	447	456	447	456	447	399
135°	556	562	556	562	556	428
145°	642	648	642	648	642	402
155°	707	706	707	706	707	326
165°	745	744	745	744	745	211
175°	763	760	763	760	763	73
180°	763	763	763	763	763	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	885.8	891.8	896.4	899.4	907.0	911.5	915.3	922.1	922.1	923.6	926.6
5°	882.8	895.6	904.7	916.8	932.7	940.2	950.8	959.9	972.8	979.6	986.4
7.5°	876.0	894.1	913.0	931.2	954.6	969.7	980.3	1003.8	1020.4	1040.9	1056.7
10°	866.9	891.8	916.0	944.0	975.8	998.5	1014.4	1045.4	1077.2	1105.9	1130.1
12.5°	855.5	885.8	920.6	954.6	999.2	1021.9	1047.7	1086.2	1131.6	1167.9	1200.5
15°	843.4	878.2	917.6	959.2	1015.1	1046.9	1084.0	1130.9	1181.5	1233.7	1278.4
17.5°	824.5	868.4	912.3	972.8	1038.6	1057.5	1089.3	1153.6	1216.3	1263.2	1317.7
20°	805.6	854.8	910.0	964.5	1035.6	1079.4	1108.9	1177.0	1244.3	1301.1	1353.3
22.5°	788.2	839.6	897.1	966.0	1032.5	1076.4	1113.5	1184.6	1262.5	1326.0	1390.3
25°	767.0	823.0	886.5	951.6	1032.5	1065.8	1106.7	1189.1	1271.6	1344.9	1424.4
27.5°	744.3	801.1	863.8	930.4	1004.5	1053.7	1093.8	1182.3	1282.9	1361.6	1443.3
30°	721.6	779.9	840.4	900.2	983.4	1030.3	1076.4	1174.0	1289.0	1379.0	1441.8
32.5°	699.7	748.9	808.6	866.9	949.3	1000.8	1053.0	1165.7	1291.2	1366.9	1397.1
35°	669.4	720.9	769.3	831.3	914.5	965.2	1026.5	1164.9	1281.4	1328.3	1313.2
37.5°	641.5	684.6	730.7	785.9	871.4	937.2	1000.8	1145.2	1248.9	1251.9	1166.4
40°	610.4	646.0	684.6	742.8	835.1	900.2	969.0	1115.0	1189.9	1145.2	994.7
42.5°	574.9	606.7	636.9	693.6	794.3	866.9	941.0	1077.2	1104.4	1001.5	844.9
45°	537.1	562.8	590.8	650.5	751.1	823.0	897.1	1018.9	990.9	845.7	696.7
47.5°	497.7	519.7	546.9	601.4	705.0	778.4	848.7	935.7	864.6	708.8	584.0
50°	458.4	475.8	502.3	558.2	658.1	724.7	789.7	846.4	746.6	608.2	482.6
52.5°	419.8	433.4	460.7	508.3	605.1	668.7	715.6	737.5	636.2	502.3	419.1
55°	379.0	394.1	412.3	460.7	556.7	603.6	634.6	633.9	529.5	425.9	346.4
57.5°	339.6	353.3	369.1	417.6	495.5	527.2	553.7	540.9	441.8	348.7	297.3
60°	304.8	312.4	329.8	370.7	429.7	456.9	472.0	450.1	360.8	294.3	245.8
62.5°	267.0	274.6	289.0	327.5	363.8	378.2	391.1	363.1	298.0	239.8	210.3
65°	232.2	242.1	251.1	282.1	301.8	319.2	317.7	294.3	233.0	195.2	171.0
67.5°	202.0	205.7	213.3	232.2	241.3	254.2	254.9	228.4	187.6	158.9	144.5
70°	169.4	173.2	178.5	187.6	193.6	196.7	195.2	171.7	141.5	124.1	111.2
72.5°	141.5	140.7	144.5	144.5	150.5	149.8	145.2	127.1	107.4	93.0	85.5
75°	111.2	112.0	112.7	111.2	108.9	105.9	102.1	88.5	75.6	68.8	62.0
77.5°	87.0	85.5	86.2	80.9	77.9	74.9	69.6	62.8	52.2	50.7	47.7
80°	62.0	61.3	60.5	58.2	51.4	48.4	44.6	40.8	38.6	37.1	36.3
82.5°	41.6	41.6	40.1	35.6	31.8	29.5	28.7	27.2	25.0	25.0	24.2
85°	25.0	24.2	22.7	18.2	15.9	15.9	15.9	15.9	14.4	14.4	13.6
87.5°	9.8	9.1	6.8	6.8	6.1	6.1	6.1	5.3	5.3	4.5	4.5
90°	0.6	1.8	3.1	4.3	5.6	6.2	7.0	8.7	10.3	12.0	13.6
92.5°	13.0	12.2	11.5	10.7	10.0	9.6	10.2	11.3	12.4	13.6	14.7
95°	34.6	29.4	24.2	19.1	13.9	11.3	12.0	13.4	14.8	16.2	17.6
97.5°	62.9	59.4	55.8	52.3	48.8	47.0	43.8	37.4	30.9	24.5	18.1
100°	95.8	98.3	100.8	103.3	105.8	107.1	97.3	77.6	58.0	38.3	18.7
102.5°	133.2	134.8	136.4	138.1	139.7	140.5	129.5	107.6	85.7	63.8	41.9
105°	168.9	170.3	171.7	173.0	174.4	175.1	169.4	158.1	146.8	135.4	124.1
107.5°	206.9	208.0	209.2	210.3	211.4	212.0	212.9	214.8	216.7	218.6	220.5
110°	244.8	245.8	246.8	247.9	248.9	249.4	250.1	251.5	252.8	254.2	255.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.1	282.0	282.9	283.8	284.7	285.1	285.8	287.2	288.5	289.9	291.3
115°	316.8	317.6	318.3	319.1	319.8	320.2	320.8	321.9	323.0	324.2	325.3
117.5°	351.9	352.8	353.7	354.6	355.5	355.9	356.2	356.8	357.5	358.1	358.7
120°	384.2	385.3	386.5	387.6	388.7	389.3	389.5	389.9	390.2	390.6	391.0
122.5°	417.1	418.0	418.9	419.8	420.7	421.1	421.3	421.8	422.3	422.8	423.3
125°	446.6	447.6	448.6	449.6	450.6	451.1	451.4	451.9	452.4	452.9	453.4
127.5°	476.0	477.0	478.0	479.1	480.1	480.6	480.9	481.5	482.2	482.8	483.4
130°	503.2	504.2	505.2	506.3	507.3	507.8	508.0	508.5	509.0	509.5	510.0
132.5°	529.3	530.3	531.3	532.4	533.4	533.9	534.1	534.5	534.8	535.2	535.6
135°	556.0	556.8	557.5	558.3	559.0	559.4	559.6	560.1	560.6	561.1	561.6
137.5°	578.6	579.6	580.6	581.7	582.7	583.2	583.3	583.6	583.8	584.1	584.3
140°	601.3	602.1	602.8	603.6	604.3	604.7	604.9	605.3	605.6	606.0	606.4
142.5°	622.3	623.1	623.8	624.6	625.3	625.7	625.9	626.3	626.6	627.0	627.4
145°	641.5	642.4	643.3	644.2	645.1	645.5	645.6	645.9	646.1	646.4	646.6
147.5°	660.2	660.8	661.5	662.1	662.8	663.1	663.2	663.5	663.7	664.0	664.2
150°	677.2	677.6	678.0	678.3	678.7	678.9	679.0	679.3	679.6	679.8	680.1
152.5°	692.5	692.6	692.8	692.9	693.0	693.1	693.2	693.3	693.4	693.6	693.7
155°	706.7	706.5	706.2	706.0	705.7	705.6	705.7	705.8	705.9	706.0	706.1
157.5°	718.0	718.0	718.0	718.0	718.0	718.0	717.9	717.8	717.7	717.6	717.5
160°	728.2	728.1	728.0	727.9	727.8	727.7	727.6	727.5	727.4	727.2	727.1
162.5°	737.9	737.5	737.1	736.8	736.4	736.2	736.1	736.0	735.9	735.7	735.6
165°	745.2	744.8	744.4	744.1	743.7	743.5	743.4	743.3	743.2	743.1	743.0
167.5°	751.5	751.0	750.5	750.0	749.5	749.2	749.2	749.2	749.2	749.2	749.2
170°	756.6	756.1	755.6	755.1	754.6	754.3	754.3	754.3	754.3	754.3	754.3
172.5°	760.0	759.4	758.7	758.1	757.4	757.1	757.2	757.3	757.4	757.6	757.7
175°	762.8	762.2	761.6	760.9	760.3	760.0	760.1	760.2	760.3	760.4	760.5
177.5°	763.9	763.3	762.7	762.0	761.4	761.1	761.2	761.3	761.4	761.6	761.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	932.7	932.7	939.5	946.3	942.5	944.8	953.1	950.1	956.1	955.4	957.6
5°	1003.0	1011.4	1018.2	1032.5	1034.8	1032.5	1046.9	1050.7	1057.5	1049.2	1053.0
7.5°	1082.5	1099.9	1116.5	1137.7	1144.5	1146.0	1153.6	1164.2	1173.2	1156.6	1164.9
10°	1159.6	1186.1	1220.1	1239.0	1255.7	1261.7	1267.8	1274.6	1285.2	1295.0	1287.5
12.5°	1242.8	1281.4	1313.9	1348.0	1368.4	1366.1	1383.5	1388.1	1396.4	1398.6	1401.7
15°	1310.9	1365.4	1385.8	1436.5	1441.0	1456.1	1475.8	1493.2	1495.5	1490.9	1490.9
17.5°	1376.0	1422.9	1459.2	1500.0	1508.3	1521.2	1546.2	1554.5	1557.5	1556.7	1556.7
20°	1428.9	1459.9	1521.2	1555.2	1568.8	1585.5	1602.9	1613.5	1615.7	1618.8	1614.2
22.5°	1463.7	1510.6	1560.5	1588.5	1599.9	1605.9	1617.3	1620.3	1616.5	1617.3	1618.0
25°	1490.9	1537.1	1567.3	1574.9	1574.1	1566.6	1558.3	1543.9	1542.4	1536.3	1524.2
27.5°	1498.5	1515.9	1512.1	1481.1	1450.1	1447.1	1397.1	1369.9	1338.9	1343.4	1326.0
30°	1457.6	1435.0	1381.2	1302.6	1270.1	1217.1	1161.1	1102.9	1080.2	1055.2	1101.4
32.5°	1357.8	1276.9	1181.5	1079.4	1025.0	978.1	918.3	876.0	851.7	831.3	870.7
35°	1207.3	1080.9	954.6	857.8	813.2	770.8	714.8	693.6	663.4	666.4	670.2
37.5°	1013.6	874.4	779.1	683.8	654.3	636.9	596.1	563.5	553.0	549.9	549.9
40°	832.1	717.9	633.1	558.2	535.6	521.2	488.7	473.5	462.2	459.2	462.9
42.5°	688.4	590.8	525.0	475.0	459.2	441.0	427.4	408.5	406.2	400.9	407.7
45°	577.9	493.2	444.0	407.7	394.1	387.3	372.2	360.8	356.3	355.5	360.8
47.5°	490.2	424.4	381.2	358.5	348.0	341.2	328.3	323.8	319.2	320.7	318.5
50°	411.5	362.3	334.3	313.9	307.1	300.3	292.0	287.4	285.2	285.2	284.4
52.5°	353.3	312.4	294.3	275.3	272.3	268.5	259.5	256.4	252.6	251.9	254.9
55°	302.6	274.6	256.4	245.1	242.1	234.5	230.7	226.9	224.7	223.1	223.9
57.5°	258.7	237.5	225.4	215.6	210.3	207.3	200.5	199.7	198.2	198.2	197.4
60°	222.4	207.3	192.9	186.8	183.1	179.3	178.5	174.0	171.7	173.2	172.5
62.5°	188.4	176.2	167.9	161.1	158.9	155.8	153.6	152.0	149.8	150.5	150.5
65°	157.3	147.5	141.5	135.4	134.6	131.6	130.9	129.4	129.4	128.6	130.1
67.5°	129.4	122.5	117.2	113.5	111.2	112.0	108.9	106.7	106.7	105.9	108.2
70°	102.9	99.1	93.8	89.3	86.2	86.2	82.5	81.7	81.7	81.7	80.9
72.5°	79.4	72.6	70.3	68.8	68.8	68.8	67.3	67.3	66.6	67.3	66.6
75°	59.0	58.2	56.7	56.0	56.0	55.2	54.5	54.5	54.5	54.5	54.5
77.5°	46.1	46.1	44.6	43.9	43.9	43.9	43.1	43.1	42.4	42.4	42.4
80°	34.0	34.0	32.5	32.5	32.5	31.8	31.8	31.8	32.5	31.8	31.8
82.5°	23.4	23.4	22.7	23.4	22.7	21.9	21.9	21.9	21.2	21.9	21.9
85°	13.6	13.6	12.9	12.1	12.9	12.9	12.1	12.9	12.1	12.9	12.1
87.5°	5.3	4.5	4.5	4.5	3.8	4.5	3.8	3.8	4.5	3.8	4.5
90°	14.1	14.6	15.1	15.6	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	15.6	16.5	17.4	18.3	18.7	18.8	18.9	19.0	19.2	19.3	19.2
95°	18.5	19.3	20.2	21.1	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	19.1	20.1	21.2	22.2	22.7	22.8	22.9	23.0	23.1	23.2	23.1
100°	19.7	20.7	21.7	22.7	23.2	23.3	23.4	23.5	23.7	23.8	23.7
102.5°	37.7	33.6	29.4	25.3	23.2	23.3	23.6	23.9	24.1	24.4	24.1
105°	101.8	79.5	57.2	34.9	23.8	23.9	24.2	24.4	24.7	24.9	24.7
107.5°	201.1	181.7	162.3	142.9	133.2	124.9	108.4	91.9	75.4	58.9	75.4
110°	251.4	247.3	243.1	239.0	236.9	227.9	209.9	191.8	173.8	155.8	173.8



TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	292.4	293.6	294.7	295.8	296.4	296.3	296.0	295.8	295.5	295.3	295.5
115°	326.6	327.8	329.1	330.4	331.0	331.2	331.7	332.2	332.7	333.2	332.7
117.5°	359.7	360.7	361.8	362.8	363.3	363.4	363.5	363.6	363.7	363.8	363.7
120°	392.0	393.0	394.1	395.1	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	423.9	424.6	425.2	425.9	426.2	426.3	426.4	426.5	426.6	426.7	426.6
125°	453.6	453.9	454.1	454.4	454.5	454.6	454.9	455.1	455.4	455.6	455.4
127.5°	483.8	484.2	484.5	484.9	485.1	485.0	484.7	484.5	484.2	484.0	484.2
130°	510.5	511.0	511.5	512.0	512.3	512.2	511.9	511.7	511.4	511.2	511.4
132.5°	536.1	536.6	537.1	537.6	537.8	537.6	537.2	536.9	536.5	536.1	536.5
135°	562.0	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	562.0
137.5°	584.9	585.5	586.2	586.8	587.1	587.0	586.7	586.5	586.2	586.0	586.2
140°	606.9	607.4	607.9	608.4	608.7	608.6	608.3	608.0	607.8	607.5	607.8
142.5°	627.8	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.8
145°	646.9	647.1	647.4	647.7	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	664.4	664.7	664.9	665.2	665.3	665.0	664.4	663.7	663.1	662.5	663.1
150°	680.3	680.6	680.8	681.1	681.2	681.0	680.6	680.3	679.9	679.5	679.9
152.5°	694.2	694.7	695.2	695.7	695.9	695.6	695.0	694.3	693.7	693.1	693.7
155°	706.7	707.4	708.0	708.7	709.0	708.6	707.9	707.1	706.4	705.6	706.4
157.5°	718.3	719.0	719.8	720.5	720.9	720.4	719.4	718.3	717.3	716.3	717.3
160°	727.9	728.6	729.4	730.1	730.5	730.1	729.2	728.3	727.4	726.5	727.4
162.5°	736.5	737.4	738.3	739.2	739.6	739.2	738.5	737.7	737.0	736.2	737.0
165°	744.0	745.0	746.0	747.0	747.5	747.1	746.2	745.3	744.4	743.5	744.4
167.5°	750.2	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	750.2
170°	755.3	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	755.3
172.5°	758.7	759.7	760.7	761.7	762.2	761.6	760.5	759.4	758.2	757.1	758.2
175°	761.4	762.3	763.2	764.1	764.5	764.0	763.0	762.0	761.0	760.0	761.0
177.5°	762.7	763.7	764.7	765.7	766.2	765.6	764.3	763.0	761.8	760.5	761.8
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	953.9	949.3	946.3	944.0	941.8	948.6	939.5	929.7	922.8	918.3	916.8
5°	1053.7	1043.9	1035.6	1028.7	1030.3	1030.3	1014.4	997.0	981.9	973.5	964.5
7.5°	1169.4	1158.9	1142.2	1138.4	1135.4	1116.5	1100.6	1068.8	1049.9	1031.0	1014.4
10°	1284.4	1270.8	1254.9	1249.6	1242.1	1218.6	1194.4	1153.6	1130.1	1095.3	1073.4
12.5°	1391.8	1375.2	1359.3	1355.5	1344.2	1323.8	1282.2	1239.8	1199.7	1162.6	1124.1
15°	1481.9	1477.3	1453.1	1438.0	1413.0	1385.0	1376.0	1318.5	1267.8	1229.2	1159.6
17.5°	1557.5	1536.3	1513.6	1503.8	1494.0	1461.4	1428.9	1369.9	1315.4	1258.7	1214.1
20°	1618.0	1594.6	1578.7	1564.3	1559.8	1522.7	1471.3	1419.1	1359.3	1295.8	1237.5
22.5°	1621.0	1618.0	1607.4	1599.1	1590.0	1565.8	1525.0	1459.9	1396.4	1326.8	1250.4
25°	1558.3	1553.7	1584.0	1576.4	1582.5	1573.4	1551.4	1497.0	1422.9	1341.2	1264.0
27.5°	1369.1	1415.3	1462.9	1479.6	1490.9	1523.5	1534.0	1503.8	1444.0	1357.0	1270.8
30°	1112.0	1173.2	1250.4	1292.0	1323.8	1384.3	1462.9	1472.8	1444.8	1375.2	1269.3
32.5°	872.9	928.9	990.9	1040.1	1082.5	1206.5	1312.4	1388.8	1402.4	1366.1	1273.1
35°	703.5	727.7	786.7	833.6	891.1	997.0	1121.8	1245.1	1328.3	1332.8	1261.7
37.5°	580.2	593.0	644.5	671.0	705.0	798.0	914.5	1075.6	1205.0	1266.3	1230.0
40°	480.3	509.8	539.3	554.5	578.7	643.0	754.9	881.2	1041.6	1155.1	1180.8
42.5°	416.8	429.7	448.6	469.7	484.9	540.9	615.7	731.5	876.0	1034.0	1105.1
45°	367.6	372.2	391.8	405.4	421.3	460.7	513.6	610.4	737.5	893.3	1014.4
47.5°	326.8	335.9	346.4	354.8	365.4	395.6	441.0	511.3	623.3	762.5	892.6
50°	290.5	295.8	309.4	313.2	320.7	341.9	376.7	430.4	522.7	633.9	768.5
52.5°	256.4	266.3	271.6	276.9	283.7	301.1	323.8	367.6	437.2	541.6	655.8
55°	230.0	233.0	240.5	245.1	250.4	262.5	282.1	314.7	369.1	452.3	560.5
57.5°	204.2	204.2	211.8	215.6	220.9	230.0	247.4	272.3	311.7	373.7	472.8
60°	177.0	177.8	183.8	188.4	189.9	198.9	213.3	233.0	263.2	308.6	389.6
62.5°	152.8	156.6	159.6	161.1	166.4	171.7	183.8	197.4	218.6	258.7	316.2
65°	132.4	133.1	135.4	136.9	139.2	145.2	154.3	163.4	181.5	211.0	257.9
67.5°	108.9	112.0	115.0	115.0	117.2	120.3	129.4	136.9	150.5	167.9	199.7
70°	81.7	83.2	87.7	90.0	93.0	98.3	102.9	107.4	118.0	130.9	155.1
72.5°	68.1	68.1	69.6	70.3	70.3	74.1	80.9	85.5	90.8	99.8	116.5
75°	54.5	54.5	56.7	56.0	57.5	59.0	59.8	62.8	65.8	72.6	82.5
77.5°	43.1	43.9	43.9	44.6	44.6	45.4	46.1	47.7	49.2	53.0	57.5
80°	31.8	32.5	32.5	33.3	33.3	34.0	34.8	35.6	37.1	38.6	40.8
82.5°	21.9	22.7	22.7	23.4	22.7	23.4	24.2	24.2	25.0	26.5	27.2
85°	12.9	12.9	13.6	12.9	12.9	12.9	13.6	13.6	14.4	16.6	16.6
87.5°	3.8	4.5	3.8	4.5	4.5	4.5	4.5	5.3	5.3	6.1	6.8
90°	16.5	16.3	16.0	15.9	15.6	15.1	14.6	14.1	13.6	12.0	10.3
92.5°	19.0	18.9	18.8	18.7	18.3	17.4	16.5	15.6	14.7	13.6	12.4
95°	21.5	21.5	21.5	21.5	21.1	20.2	19.3	18.5	17.6	16.2	14.8
97.5°	23.0	22.9	22.8	22.7	22.2	21.2	20.1	19.1	18.1	24.5	30.9
100°	23.5	23.4	23.3	23.2	22.7	21.7	20.7	19.7	18.7	38.3	58.0
102.5°	23.9	23.6	23.3	23.2	25.3	29.4	33.6	37.7	41.9	63.8	85.7
105°	24.4	24.2	23.9	23.8	34.9	57.2	79.5	101.8	124.1	135.4	146.8
107.5°	91.9	108.4	124.9	133.2	142.9	162.3	181.7	201.1	220.5	218.6	216.7
110°	191.8	209.9	227.9	236.9	239.0	243.1	247.3	251.4	255.6	254.2	252.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	295.8	296.0	296.3	296.4	295.8	294.7	293.6	292.4	291.3	289.9	288.5
115°	332.2	331.7	331.2	331.0	330.4	329.1	327.8	326.6	325.3	324.2	323.0
117.5°	363.6	363.5	363.4	363.3	362.8	361.8	360.7	359.7	358.7	358.1	357.5
120°	395.6	395.6	395.6	395.6	395.1	394.1	393.0	392.0	391.0	390.6	390.2
122.5°	426.5	426.4	426.3	426.2	425.9	425.2	424.6	423.9	423.3	422.8	422.3
125°	455.1	454.9	454.6	454.5	454.4	454.1	453.9	453.6	453.4	452.9	452.4
127.5°	484.5	484.7	485.0	485.1	484.9	484.5	484.2	483.8	483.4	482.8	482.2
130°	511.7	511.9	512.2	512.3	512.0	511.5	511.0	510.5	510.0	509.5	509.0
132.5°	536.9	537.2	537.6	537.8	537.6	537.1	536.6	536.1	535.6	535.2	534.8
135°	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	561.1	560.6
137.5°	586.5	586.7	587.0	587.1	586.8	586.2	585.5	584.9	584.3	584.1	583.8
140°	608.0	608.3	608.6	608.7	608.4	607.9	607.4	606.9	606.4	606.0	605.6
142.5°	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.0	626.6
145°	647.8	647.8	647.8	647.8	647.7	647.4	647.1	646.9	646.6	646.4	646.1
147.5°	663.7	664.4	665.0	665.3	665.2	664.9	664.7	664.4	664.2	664.0	663.7
150°	680.3	680.6	681.0	681.2	681.1	680.8	680.6	680.3	680.1	679.8	679.6
152.5°	694.3	695.0	695.6	695.9	695.7	695.2	694.7	694.2	693.7	693.6	693.4
155°	707.1	707.9	708.6	709.0	708.7	708.0	707.4	706.7	706.1	706.0	705.9
157.5°	718.3	719.4	720.4	720.9	720.5	719.8	719.0	718.3	717.5	717.6	717.7
160°	728.3	729.2	730.1	730.5	730.1	729.4	728.6	727.9	727.1	727.2	727.4
162.5°	737.7	738.5	739.2	739.6	739.2	738.3	737.4	736.5	735.6	735.7	735.9
165°	745.3	746.2	747.1	747.5	747.0	746.0	745.0	744.0	743.0	743.1	743.2
167.5°	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	749.2	749.2
170°	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	754.3	754.3
172.5°	759.4	760.5	761.6	762.2	761.7	760.7	759.7	758.7	757.7	757.6	757.4
175°	762.0	763.0	764.0	764.5	764.1	763.2	762.3	761.4	760.5	760.4	760.3
177.5°	763.0	764.3	765.6	766.2	765.7	764.7	763.7	762.7	761.7	761.6	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	914.5	910.7	907.0	907.0	898.6	891.1	887.3	888.8	884.3	878.2	872.2
5°	954.6	939.5	936.5	928.1	916.8	900.9	892.6	885.0	876.0	863.8	852.5
7.5°	991.7	972.0	961.4	953.1	931.2	909.2	891.1	879.0	863.1	844.9	831.3
10°	1040.1	1003.8	992.4	973.5	942.5	911.5	890.3	870.7	848.7	827.5	809.4
12.5°	1078.7	1037.1	1015.9	997.0	956.9	917.6	882.0	857.8	831.3	807.9	784.4
15°	1122.5	1075.6	1038.6	1015.9	965.2	917.6	877.5	843.4	813.9	785.2	764.8
17.5°	1143.7	1084.7	1068.1	1035.6	962.2	914.5	865.4	829.1	793.5	760.2	736.0
20°	1177.0	1108.2	1066.6	1044.6	979.6	909.2	851.7	810.1	773.1	737.5	711.8
22.5°	1179.3	1104.4	1077.2	1035.6	955.4	893.3	839.6	789.0	745.8	712.6	686.1
25°	1174.0	1097.6	1059.8	1026.5	959.9	884.3	815.4	765.5	723.2	684.6	653.6
27.5°	1171.7	1077.9	1042.4	1009.1	934.2	857.8	801.1	744.3	695.9	661.9	630.1
30°	1168.7	1056.7	1013.6	975.0	906.2	837.4	769.3	720.1	674.0	630.9	599.1
32.5°	1149.0	1028.0	984.1	943.3	869.1	800.3	746.6	694.4	644.5	604.4	575.6
35°	1143.0	1001.5	944.0	900.2	827.5	766.3	709.5	666.4	619.5	579.4	545.4
37.5°	1125.6	974.3	912.3	856.3	780.6	722.4	680.8	637.7	592.3	549.2	521.9
40°	1095.3	942.5	872.2	814.7	736.8	677.8	639.2	607.4	562.8	524.2	490.9
42.5°	1050.7	910.0	834.3	773.8	687.6	632.4	600.6	570.4	532.5	492.4	465.2
45°	999.2	866.9	796.5	729.2	641.5	587.7	554.5	536.3	501.5	467.5	435.7
47.5°	928.9	822.2	752.7	683.1	593.8	541.6	515.1	497.0	472.8	435.7	410.0
50°	840.4	764.8	698.9	636.9	546.9	497.0	470.5	456.9	436.5	410.0	385.0
52.5°	742.1	698.2	643.7	586.2	499.2	452.3	428.1	417.6	402.4	377.5	356.3
55°	643.0	624.1	587.0	530.3	449.3	410.7	389.6	375.9	364.6	346.4	328.3
57.5°	554.5	545.4	519.7	475.8	407.7	367.6	349.5	340.4	331.3	317.7	299.5
60°	462.9	472.8	446.3	424.4	362.3	327.5	311.7	301.8	297.3	285.2	273.8
62.5°	383.5	392.6	377.5	360.8	316.9	285.9	276.1	267.0	264.0	253.4	242.1
65°	311.7	323.0	311.7	302.6	276.1	250.4	238.3	233.7	230.7	223.9	214.8
67.5°	248.1	259.5	254.2	242.8	234.5	213.3	206.5	202.0	200.5	195.2	187.6
70°	186.8	202.7	204.2	197.4	189.9	180.0	175.5	174.0	170.2	165.7	161.1
72.5°	134.6	152.8	153.6	153.6	149.0	149.0	144.5	142.2	142.2	137.7	132.4
75°	99.1	111.2	112.7	114.2	116.5	118.8	115.7	115.7	115.0	110.4	108.2
77.5°	65.8	76.4	80.2	85.5	88.5	88.5	90.0	91.5	90.0	87.7	86.2
80°	42.4	49.9	54.5	57.5	62.0	64.3	66.6	67.3	65.8	65.1	62.8
82.5°	28.0	30.3	32.5	36.3	41.6	45.4	45.4	44.6	46.1	45.4	44.6
85°	15.9	17.4	18.2	18.9	21.9	25.7	26.5	27.2	28.7	27.2	25.7
87.5°	6.1	6.8	6.8	6.8	8.3	9.1	11.3	14.4	13.6	12.1	12.1
90°	8.7	7.0	6.2	5.6	4.3	3.1	1.8	0.6	1.8	3.1	4.3
92.5°	11.3	10.2	9.6	10.0	10.7	11.5	12.2	13.0	12.2	11.5	10.7
95°	13.4	12.0	11.3	13.9	19.1	24.2	29.4	34.6	29.4	24.2	19.1
97.5°	37.4	43.8	47.0	48.8	52.3	55.8	59.4	62.9	59.4	55.8	52.3
100°	77.6	97.3	107.1	105.8	103.3	100.8	98.3	95.8	98.3	100.8	103.3
102.5°	107.6	129.5	140.5	139.7	138.1	136.4	134.8	133.2	134.8	136.4	138.1
105°	158.1	169.4	175.1	174.4	173.0	171.7	170.3	168.9	170.3	171.7	173.0
107.5°	214.8	212.9	212.0	211.4	210.3	209.2	208.0	206.9	208.0	209.2	210.3
110°	251.5	250.1	249.4	248.9	247.9	246.8	245.8	244.8	245.8	246.8	247.9

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.2	285.8	285.1	284.7	283.8	282.9	282.0	281.1	282.0	282.9	283.8
115°	321.9	320.8	320.2	319.8	319.1	318.3	317.6	316.8	317.6	318.3	319.1
117.5°	356.8	356.2	355.9	355.5	354.6	353.7	352.8	351.9	352.8	353.7	354.6
120°	389.9	389.5	389.3	388.7	387.6	386.5	385.3	384.2	385.3	386.5	387.6
122.5°	421.8	421.3	421.1	420.7	419.8	418.9	418.0	417.1	418.0	418.9	419.8
125°	451.9	451.4	451.1	450.6	449.6	448.6	447.6	446.6	447.6	448.6	449.6
127.5°	481.5	480.9	480.6	480.1	479.1	478.0	477.0	476.0	477.0	478.0	479.1
130°	508.5	508.0	507.8	507.3	506.3	505.2	504.2	503.2	504.2	505.2	506.3
132.5°	534.5	534.1	533.9	533.4	532.4	531.3	530.3	529.3	530.3	531.3	532.4
135°	560.1	559.6	559.4	559.0	558.3	557.5	556.8	556.0	556.8	557.5	558.3
137.5°	583.6	583.3	583.2	582.7	581.7	580.6	579.6	578.6	579.6	580.6	581.7
140°	605.3	604.9	604.7	604.3	603.6	602.8	602.1	601.3	602.1	602.8	603.6
142.5°	626.3	625.9	625.7	625.3	624.6	623.8	623.1	622.3	623.1	623.8	624.6
145°	645.9	645.6	645.5	645.1	644.2	643.3	642.4	641.5	642.4	643.3	644.2
147.5°	663.5	663.2	663.1	662.8	662.1	661.5	660.8	660.2	660.8	661.5	662.1
150°	679.3	679.0	678.9	678.7	678.3	678.0	677.6	677.2	677.6	678.0	678.3
152.5°	693.3	693.2	693.1	693.0	692.9	692.8	692.6	692.5	692.6	692.8	692.9
155°	705.8	705.7	705.6	705.7	706.0	706.2	706.5	706.7	706.5	706.2	706.0
157.5°	717.8	717.9	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
160°	727.5	727.6	727.7	727.8	727.9	728.0	728.1	728.2	728.1	728.0	727.9
162.5°	736.0	736.1	736.2	736.4	736.8	737.1	737.5	737.9	737.5	737.1	736.8
165°	743.3	743.4	743.5	743.7	744.1	744.4	744.8	745.2	744.8	744.4	744.1
167.5°	749.2	749.2	749.2	749.5	750.0	750.5	751.0	751.5	751.0	750.5	750.0
170°	754.3	754.3	754.3	754.6	755.1	755.6	756.1	756.6	756.1	755.6	755.1
172.5°	757.3	757.2	757.1	757.4	758.1	758.7	759.4	760.0	759.4	758.7	758.1
175°	760.2	760.1	760.0	760.3	760.9	761.6	762.2	762.8	762.2	761.6	760.9
177.5°	761.3	761.2	761.1	761.4	762.0	762.7	763.3	763.9	763.3	762.7	762.0
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	872.2	868.4	866.9	863.1	854.0	848.0	841.2	836.6	837.4	833.6	835.9
5°	844.9	844.2	838.9	831.3	818.5	811.7	799.6	793.5	790.5	791.2	786.7
7.5°	822.2	815.4	811.7	799.6	787.4	773.1	763.2	757.9	753.4	748.9	745.8
10°	796.5	790.5	784.4	771.6	754.9	741.3	727.7	722.4	715.6	712.6	710.3
12.5°	769.3	765.5	757.9	742.8	723.9	711.0	695.2	692.1	683.1	677.0	675.5
15°	744.3	742.1	728.4	711.0	692.1	679.3	665.7	656.6	641.5	644.5	639.2
17.5°	717.9	708.0	699.7	676.3	667.2	647.5	631.6	627.1	616.5	609.7	602.9
20°	688.4	682.3	671.7	656.6	634.6	612.0	599.9	592.3	586.2	575.6	572.6
22.5°	660.4	652.8	643.7	624.1	605.1	586.2	569.6	562.8	555.2	547.7	543.1
25°	638.4	627.1	617.2	593.0	574.1	558.2	547.7	536.3	525.7	521.2	519.7
27.5°	604.4	597.6	587.7	565.1	547.7	530.3	520.4	512.9	501.5	496.2	491.7
30°	582.5	568.8	557.5	539.3	521.9	503.0	494.0	484.9	478.1	471.3	466.0
32.5°	553.0	542.4	533.3	515.1	497.7	480.3	470.5	456.9	453.1	447.8	441.8
35°	524.2	517.4	507.6	487.9	469.0	456.9	446.3	433.4	428.9	425.1	419.8
37.5°	497.0	487.1	480.3	461.4	444.8	430.4	422.1	411.5	408.5	403.9	400.2
40°	473.5	463.7	456.9	438.0	420.6	405.4	400.2	389.6	385.0	379.7	377.5
42.5°	447.1	438.7	429.7	416.0	397.9	382.8	372.2	366.1	360.1	357.8	353.3
45°	419.1	411.5	404.7	389.6	370.7	360.1	351.0	342.7	338.1	334.3	331.3
47.5°	394.9	388.1	379.0	362.3	347.2	337.4	328.3	320.0	315.4	310.9	307.1
50°	366.9	363.1	353.3	337.4	323.0	311.7	303.3	295.8	292.7	287.4	281.4
52.5°	341.9	335.1	326.8	313.9	301.1	287.4	276.1	271.6	266.3	263.2	257.9
55°	312.4	307.9	298.8	287.4	273.8	262.5	254.2	248.1	241.3	238.3	231.5
57.5°	287.4	279.1	274.6	260.2	247.4	236.0	230.0	223.9	216.3	211.8	208.8
60°	260.2	252.6	245.8	233.7	224.7	212.6	203.5	198.2	192.9	186.8	183.8
62.5°	233.7	227.7	219.4	209.5	198.2	188.4	181.5	174.0	171.0	164.9	162.6
65°	205.0	200.5	193.6	182.3	173.2	164.9	158.1	152.0	149.0	146.7	145.2
67.5°	179.3	173.2	168.7	158.9	149.0	142.2	138.4	134.6	130.9	128.6	126.3
70°	152.8	148.3	143.7	134.6	127.8	121.8	118.8	115.7	113.5	111.2	108.9
72.5°	125.6	123.3	118.8	112.7	107.4	102.9	100.6	96.8	94.6	90.8	89.3
75°	103.6	99.8	97.6	92.3	87.7	84.0	80.9	76.4	73.4	71.9	71.1
77.5°	81.7	80.2	77.2	72.6	70.3	66.6	62.0	60.5	59.0	59.0	58.2
80°	61.3	59.0	56.7	53.0	50.7	47.7	47.7	47.7	46.9	47.7	46.9
82.5°	41.6	40.1	38.6	36.3	35.6	35.6	36.3	36.3	36.3	36.3	36.3
85°	24.2	24.2	24.2	25.0	24.2	24.2	25.0	25.7	25.0	25.0	24.2
87.5°	11.3	11.3	12.1	12.1	12.9	12.9	12.9	12.9	12.9	12.9	13.6
90°	5.6	6.2	7.0	8.7	10.3	12.0	13.6	14.1	14.6	15.1	15.6
92.5°	10.0	9.6	10.2	11.3	12.4	13.6	14.7	15.6	16.5	17.4	18.3
95°	13.9	11.3	12.0	13.4	14.8	16.2	17.6	18.5	19.3	20.2	21.1
97.5°	48.8	47.0	43.8	37.4	30.9	24.5	18.1	19.1	20.1	21.2	22.2
100°	105.8	107.1	97.3	77.6	58.0	38.3	18.7	19.7	20.7	21.7	22.7
102.5°	139.7	140.5	129.5	107.6	85.7	63.8	41.9	37.7	33.6	29.4	25.3
105°	174.4	175.1	169.4	158.1	146.8	135.4	124.1	101.8	79.5	57.2	34.9
107.5°	211.4	212.0	212.9	214.8	216.7	218.6	220.5	201.1	181.7	162.3	142.9
110°	248.9	249.4	250.1	251.5	252.8	254.2	255.6	251.4	247.3	243.1	239.0

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.7	285.1	285.8	287.2	288.5	289.9	291.3	292.4	293.6	294.7	295.8
115°	319.8	320.2	320.8	321.9	323.0	324.2	325.3	326.6	327.8	329.1	330.4
117.5°	355.5	355.9	356.2	356.8	357.5	358.1	358.7	359.7	360.7	361.8	362.8
120°	388.7	389.3	389.5	389.9	390.2	390.6	391.0	392.0	393.0	394.1	395.1
122.5°	420.7	421.1	421.3	421.8	422.3	422.8	423.3	423.9	424.6	425.2	425.9
125°	450.6	451.1	451.4	451.9	452.4	452.9	453.4	453.6	453.9	454.1	454.4
127.5°	480.1	480.6	480.9	481.5	482.2	482.8	483.4	483.8	484.2	484.5	484.9
130°	507.3	507.8	508.0	508.5	509.0	509.5	510.0	510.5	511.0	511.5	512.0
132.5°	533.4	533.9	534.1	534.5	534.8	535.2	535.6	536.1	536.6	537.1	537.6
135°	559.0	559.4	559.6	560.1	560.6	561.1	561.6	562.0	562.4	562.7	563.1
137.5°	582.7	583.2	583.3	583.6	583.8	584.1	584.3	584.9	585.5	586.2	586.8
140°	604.3	604.7	604.9	605.3	605.6	606.0	606.4	606.9	607.4	607.9	608.4
142.5°	625.3	625.7	625.9	626.3	626.6	627.0	627.4	627.8	628.2	628.5	628.9
145°	645.1	645.5	645.6	645.9	646.1	646.4	646.6	646.9	647.1	647.4	647.7
147.5°	662.8	663.1	663.2	663.5	663.7	664.0	664.2	664.4	664.7	664.9	665.2
150°	678.7	678.9	679.0	679.3	679.6	679.8	680.1	680.3	680.6	680.8	681.1
152.5°	693.0	693.1	693.2	693.3	693.4	693.6	693.7	694.2	694.7	695.2	695.7
155°	705.7	705.6	705.7	705.8	705.9	706.0	706.1	706.7	707.4	708.0	708.7
157.5°	718.0	718.0	717.9	717.8	717.7	717.6	717.5	718.3	719.0	719.8	720.5
160°	727.8	727.7	727.6	727.5	727.4	727.2	727.1	727.9	728.6	729.4	730.1
162.5°	736.4	736.2	736.1	736.0	735.9	735.7	735.6	736.5	737.4	738.3	739.2
165°	743.7	743.5	743.4	743.3	743.2	743.1	743.0	744.0	745.0	746.0	747.0
167.5°	749.5	749.2	749.2	749.2	749.2	749.2	749.2	750.2	751.2	752.2	753.2
170°	754.6	754.3	754.3	754.3	754.3	754.3	754.3	755.3	756.3	757.3	758.3
172.5°	757.4	757.1	757.2	757.3	757.4	757.6	757.7	758.7	759.7	760.7	761.7
175°	760.3	760.0	760.1	760.2	760.3	760.4	760.5	761.4	762.3	763.2	764.1
177.5°	761.4	761.1	761.2	761.3	761.4	761.6	761.7	762.7	763.7	764.7	765.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	835.1	835.9	833.6	829.1	828.3	829.8	834.3	832.8	829.1	835.9	829.8
5°	789.0	785.2	783.7	785.2	780.6	778.4	782.9	780.6	782.9	783.7	785.9
7.5°	744.3	745.1	740.5	741.3	735.3	736.8	736.8	736.8	739.0	740.5	743.6
10°	705.8	707.3	702.0	702.7	698.2	695.2	697.4	702.0	702.0	702.0	703.5
12.5°	674.7	667.9	664.1	663.4	658.1	656.6	661.1	662.6	666.4	666.4	668.7
15°	636.2	634.6	631.6	631.6	618.8	621.8	623.3	628.6	636.2	630.1	631.6
17.5°	601.4	597.6	593.8	592.3	590.8	586.2	592.3	591.5	596.1	596.8	599.1
20°	570.4	567.3	559.8	560.5	562.0	555.2	559.0	559.0	563.5	568.1	573.4
22.5°	540.1	537.1	533.3	534.8	530.3	528.7	528.7	532.5	537.8	541.6	540.9
25°	516.6	511.3	509.1	506.8	504.5	506.1	503.8	507.6	511.3	513.6	511.3
27.5°	490.2	487.9	483.4	481.1	477.3	478.8	480.3	483.4	485.6	485.6	487.9
30°	464.5	461.4	459.9	457.6	457.6	454.6	455.4	458.4	460.7	462.9	466.0
32.5°	439.5	437.2	434.9	434.9	433.4	432.7	431.9	436.5	436.5	441.0	441.0
35°	419.1	415.3	415.3	411.5	413.0	412.3	410.7	413.8	414.5	417.6	416.8
37.5°	396.4	396.4	394.9	391.1	388.1	388.8	392.6	392.6	394.9	394.1	396.4
40°	373.7	372.2	372.2	369.9	369.1	368.4	369.1	369.9	373.7	372.9	373.7
42.5°	351.0	351.7	348.0	348.0	348.0	345.7	346.4	347.2	348.7	350.2	352.5
45°	329.0	327.5	326.8	325.3	323.8	324.5	323.8	326.8	326.0	327.5	329.8
47.5°	305.6	303.3	302.6	299.5	299.5	301.1	300.3	302.6	303.3	305.6	304.1
50°	282.9	279.9	277.6	278.4	273.8	275.3	275.3	277.6	279.9	280.6	282.1
52.5°	256.4	255.7	254.9	251.1	250.4	249.6	250.4	251.1	254.2	256.4	257.2
55°	230.7	230.0	225.4	223.9	221.6	221.6	223.1	223.9	229.2	230.0	233.0
57.5°	207.3	205.0	199.7	198.9	198.9	198.9	196.7	199.7	201.2	205.0	205.0
60°	181.5	181.5	177.0	177.0	177.8	177.0	177.0	177.8	177.8	180.8	182.3
62.5°	161.1	160.4	160.4	158.9	158.1	158.9	158.1	158.1	158.9	161.1	163.4
65°	143.0	142.2	141.5	140.7	139.2	139.2	139.9	141.5	141.5	143.0	143.7
67.5°	125.6	125.6	124.1	124.1	123.3	122.5	123.3	122.5	125.6	125.6	126.3
70°	108.2	107.4	105.1	104.4	102.1	102.9	102.9	105.1	105.9	107.4	108.9
72.5°	87.0	87.0	85.5	84.0	84.7	83.2	83.2	84.0	84.0	86.2	87.0
75°	71.9	70.3	69.6	70.3	69.6	71.1	69.6	69.6	71.1	71.1	71.1
77.5°	59.0	59.0	58.2	58.2	59.0	58.2	59.0	59.0	59.0	58.2	59.0
80°	48.4	47.7	47.7	47.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9
82.5°	36.3	36.3	35.6	36.3	36.3	35.6	36.3	35.6	35.6	36.3	36.3
85°	24.2	25.7	24.2	24.2	25.0	25.0	25.7	25.0	25.7	24.2	25.0
87.5°	12.9	13.6	13.6	12.9	12.9	13.6	13.6	13.6	14.4	12.9	13.6
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	18.7	18.8	18.9	19.0	19.2	19.3	19.2	19.0	18.9	18.8	18.7
95°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	22.7	22.8	22.9	23.0	23.1	23.2	23.1	23.0	22.9	22.8	22.7
100°	23.2	23.3	23.4	23.5	23.7	23.8	23.7	23.5	23.4	23.3	23.2
102.5°	23.2	23.3	23.6	23.9	24.1	24.4	24.1	23.9	23.6	23.3	23.2
105°	23.8	23.9	24.2	24.4	24.7	24.9	24.7	24.4	24.2	23.9	23.8
107.5°	133.2	124.9	108.4	91.9	75.4	58.9	75.4	91.9	108.4	124.9	133.2
110°	236.9	227.9	209.9	191.8	173.8	155.8	173.8	191.8	209.9	227.9	236.9

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	296.4	296.3	296.0	295.8	295.5	295.3	295.5	295.8	296.0	296.3	296.4
115°	331.0	331.2	331.7	332.2	332.7	333.2	332.7	332.2	331.7	331.2	331.0
117.5°	363.3	363.4	363.5	363.6	363.7	363.8	363.7	363.6	363.5	363.4	363.3
120°	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	426.2	426.3	426.4	426.5	426.6	426.7	426.6	426.5	426.4	426.3	426.2
125°	454.5	454.6	454.9	455.1	455.4	455.6	455.4	455.1	454.9	454.6	454.5
127.5°	485.1	485.0	484.7	484.5	484.2	484.0	484.2	484.5	484.7	485.0	485.1
130°	512.3	512.2	511.9	511.7	511.4	511.2	511.4	511.7	511.9	512.2	512.3
132.5°	537.8	537.6	537.2	536.9	536.5	536.1	536.5	536.9	537.2	537.6	537.8
135°	563.3	563.1	562.7	562.4	562.0	561.6	562.0	562.4	562.7	563.1	563.3
137.5°	587.1	587.0	586.7	586.5	586.2	586.0	586.2	586.5	586.7	587.0	587.1
140°	608.7	608.6	608.3	608.0	607.8	607.5	607.8	608.0	608.3	608.6	608.7
142.5°	629.1	628.9	628.5	628.2	627.8	627.4	627.8	628.2	628.5	628.9	629.1
145°	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	665.3	665.0	664.4	663.7	663.1	662.5	663.1	663.7	664.4	665.0	665.3
150°	681.2	681.0	680.6	680.3	679.9	679.5	679.9	680.3	680.6	681.0	681.2
152.5°	695.9	695.6	695.0	694.3	693.7	693.1	693.7	694.3	695.0	695.6	695.9
155°	709.0	708.6	707.9	707.1	706.4	705.6	706.4	707.1	707.9	708.6	709.0
157.5°	720.9	720.4	719.4	718.3	717.3	716.3	717.3	718.3	719.4	720.4	720.9
160°	730.5	730.1	729.2	728.3	727.4	726.5	727.4	728.3	729.2	730.1	730.5
162.5°	739.6	739.2	738.5	737.7	737.0	736.2	737.0	737.7	738.5	739.2	739.6
165°	747.5	747.1	746.2	745.3	744.4	743.5	744.4	745.3	746.2	747.1	747.5
167.5°	753.7	753.2	752.2	751.2	750.2	749.2	750.2	751.2	752.2	753.2	753.7
170°	758.8	758.3	757.3	756.3	755.3	754.3	755.3	756.3	757.3	758.3	758.8
172.5°	762.2	761.6	760.5	759.4	758.2	757.1	758.2	759.4	760.5	761.6	762.2
175°	764.5	764.0	763.0	762.0	761.0	760.0	761.0	762.0	763.0	764.0	764.5
177.5°	766.2	765.6	764.3	763.0	761.8	760.5	761.8	763.0	764.3	765.6	766.2
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	835.9	838.9	835.9	829.8	835.9	839.6	843.4	849.5	852.5	852.5	857.0
5°	788.2	794.3	792.0	790.5	796.5	800.3	806.4	813.9	822.2	827.5	833.6
7.5°	745.8	749.6	753.4	753.4	759.5	767.8	776.9	785.9	796.5	804.1	808.6
10°	708.8	711.8	714.1	717.1	726.2	735.3	747.4	758.7	767.8	776.1	783.7
12.5°	673.2	677.8	683.1	685.3	692.1	703.5	714.8	728.4	742.8	751.1	758.7
15°	639.2	641.5	647.5	654.3	660.4	672.5	686.8	701.2	713.3	726.2	733.0
17.5°	604.4	605.1	621.0	617.2	636.9	648.3	655.8	669.4	689.1	699.7	710.3
20°	570.4	577.9	584.7	588.5	599.1	612.0	633.9	644.5	660.4	670.2	679.3
22.5°	543.9	555.2	555.2	564.3	569.6	581.7	597.6	618.0	635.4	642.2	655.1
25°	520.4	525.7	534.8	537.8	547.7	558.2	568.8	590.8	609.7	618.8	627.8
27.5°	490.2	497.0	509.1	509.1	521.9	533.3	546.1	560.5	579.4	592.3	602.1
30°	466.7	473.5	478.8	487.1	492.4	503.0	525.7	536.3	553.0	564.3	576.4
32.5°	444.8	450.1	454.6	463.7	469.7	481.8	494.0	512.9	527.2	537.8	550.7
35°	420.6	425.9	431.9	438.7	447.8	459.2	470.5	486.4	500.8	510.6	521.2
37.5°	397.9	401.7	410.7	415.3	422.8	433.4	447.8	464.5	477.3	484.9	495.5
40°	375.9	379.0	385.8	394.1	399.4	407.7	422.8	437.2	453.1	462.2	470.5
42.5°	352.5	356.3	362.3	370.7	379.0	388.1	396.4	413.0	427.4	434.9	444.0
45°	332.1	334.3	338.9	347.2	355.5	362.3	375.2	390.3	403.9	410.0	419.8
47.5°	307.9	310.1	316.9	320.7	329.8	338.9	351.7	366.9	379.0	385.0	394.1
50°	282.9	285.2	289.7	298.0	304.1	313.9	325.3	338.1	353.3	361.6	366.9
52.5°	258.7	263.2	267.0	273.8	281.4	291.2	301.8	313.9	326.8	335.1	341.2
55°	234.5	238.3	242.8	246.6	255.7	264.8	276.9	288.2	299.5	307.1	313.9
57.5°	207.3	212.6	217.1	224.7	231.5	239.0	252.6	261.7	275.3	280.6	286.7
60°	183.8	189.1	192.9	198.9	205.0	214.8	223.9	235.3	246.6	253.4	261.0
62.5°	164.1	166.4	168.7	174.7	180.8	189.9	198.9	210.3	222.4	226.2	232.2
65°	144.5	146.7	150.5	155.8	160.4	165.7	175.5	184.6	195.9	202.0	204.2
67.5°	127.8	130.1	130.9	134.6	138.4	144.5	149.8	158.9	169.4	173.2	177.8
70°	108.9	112.7	113.5	116.5	118.0	121.8	127.8	134.6	143.0	149.8	153.6
72.5°	87.0	92.3	93.8	98.3	100.6	104.4	108.9	114.2	119.5	122.5	125.6
75°	71.1	72.6	73.4	77.2	80.9	86.2	88.5	91.5	96.1	99.8	102.9
77.5°	59.0	59.8	60.5	60.5	61.3	64.3	68.8	72.6	75.6	77.2	79.4
80°	47.7	46.9	46.9	47.7	47.7	47.7	49.2	54.5	56.0	59.8	59.0
82.5°	37.1	35.6	36.3	35.6	35.6	35.6	35.6	36.3	36.3	38.6	40.1
85°	24.2	25.0	24.2	24.2	23.4	24.2	23.4	23.4	22.7	22.7	21.9
87.5°	12.9	13.6	12.9	12.9	12.1	12.9	12.1	12.1	11.3	11.3	9.8
90°	15.6	15.1	14.6	14.1	13.6	12.0	10.3	8.7	7.0	6.2	5.6
92.5°	18.3	17.4	16.5	15.6	14.7	13.6	12.4	11.3	10.2	9.6	10.0
95°	21.1	20.2	19.3	18.5	17.6	16.2	14.8	13.4	12.0	11.3	13.9
97.5°	22.2	21.2	20.1	19.1	18.1	24.5	30.9	37.4	43.8	47.0	48.8
100°	22.7	21.7	20.7	19.7	18.7	38.3	58.0	77.6	97.3	107.1	105.8
102.5°	25.3	29.4	33.6	37.7	41.9	63.8	85.7	107.6	129.5	140.5	139.7
105°	34.9	57.2	79.5	101.8	124.1	135.4	146.8	158.1	169.4	175.1	174.4
107.5°	142.9	162.3	181.7	201.1	220.5	218.6	216.7	214.8	212.9	212.0	211.4
110°	239.0	243.1	247.3	251.4	255.6	254.2	252.8	251.5	250.1	249.4	248.9

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	295.8	294.7	293.6	292.4	291.3	289.9	288.5	287.2	285.8	285.1	284.7
115°	330.4	329.1	327.8	326.6	325.3	324.2	323.0	321.9	320.8	320.2	319.8
117.5°	362.8	361.8	360.7	359.7	358.7	358.1	357.5	356.8	356.2	355.9	355.5
120°	395.1	394.1	393.0	392.0	391.0	390.6	390.2	389.9	389.5	389.3	388.7
122.5°	425.9	425.2	424.6	423.9	423.3	422.8	422.3	421.8	421.3	421.1	420.7
125°	454.4	454.1	453.9	453.6	453.4	452.9	452.4	451.9	451.4	451.1	450.6
127.5°	484.9	484.5	484.2	483.8	483.4	482.8	482.2	481.5	480.9	480.6	480.1
130°	512.0	511.5	511.0	510.5	510.0	509.5	509.0	508.5	508.0	507.8	507.3
132.5°	537.6	537.1	536.6	536.1	535.6	535.2	534.8	534.5	534.1	533.9	533.4
135°	563.1	562.7	562.4	562.0	561.6	561.1	560.6	560.1	559.6	559.4	559.0
137.5°	586.8	586.2	585.5	584.9	584.3	584.1	583.8	583.6	583.3	583.2	582.7
140°	608.4	607.9	607.4	606.9	606.4	606.0	605.6	605.3	604.9	604.7	604.3
142.5°	628.9	628.5	628.2	627.8	627.4	627.0	626.6	626.3	625.9	625.7	625.3
145°	647.7	647.4	647.1	646.9	646.6	646.4	646.1	645.9	645.6	645.5	645.1
147.5°	665.2	664.9	664.7	664.4	664.2	664.0	663.7	663.5	663.2	663.1	662.8
150°	681.1	680.8	680.6	680.3	680.1	679.8	679.6	679.3	679.0	678.9	678.7
152.5°	695.7	695.2	694.7	694.2	693.7	693.6	693.4	693.3	693.2	693.1	693.0
155°	708.7	708.0	707.4	706.7	706.1	706.0	705.9	705.8	705.7	705.6	705.7
157.5°	720.5	719.8	719.0	718.3	717.5	717.6	717.7	717.8	717.9	718.0	718.0
160°	730.1	729.4	728.6	727.9	727.1	727.2	727.4	727.5	727.6	727.7	727.8
162.5°	739.2	738.3	737.4	736.5	735.6	735.7	735.9	736.0	736.1	736.2	736.4
165°	747.0	746.0	745.0	744.0	743.0	743.1	743.2	743.3	743.4	743.5	743.7
167.5°	753.2	752.2	751.2	750.2	749.2	749.2	749.2	749.2	749.2	749.2	749.5
170°	758.3	757.3	756.3	755.3	754.3	754.3	754.3	754.3	754.3	754.3	754.6
172.5°	761.7	760.7	759.7	758.7	757.7	757.6	757.4	757.3	757.2	757.1	757.4
175°	764.1	763.2	762.3	761.4	760.5	760.4	760.3	760.2	760.1	760.0	760.3
177.5°	765.7	764.7	763.7	762.7	761.7	761.6	761.4	761.3	761.2	761.1	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	883.5	883.5	883.5	883.5
2.5°	860.8	866.1	876.7	885.8
5°	842.7	851.0	866.9	882.8
7.5°	820.7	833.6	854.0	876.0
10°	799.6	816.2	841.2	866.9
12.5°	778.4	795.8	822.2	855.5
15°	753.4	771.6	803.3	843.4
17.5°	731.5	755.7	784.4	824.5
20°	708.0	726.2	763.2	805.6
22.5°	678.5	708.8	743.6	788.2
25°	655.1	681.5	716.3	767.0
27.5°	626.3	657.3	699.7	744.3
30°	602.9	628.6	667.9	721.6
32.5°	575.6	605.9	646.8	699.7
35°	551.4	577.2	615.7	669.4
37.5°	522.7	550.7	593.8	641.5
40°	497.7	525.0	565.8	610.4
42.5°	467.5	496.2	537.1	574.9
45°	443.3	469.7	502.3	537.1
47.5°	413.8	441.8	473.5	497.7
50°	387.3	413.0	438.0	458.4
52.5°	358.5	382.0	404.7	419.8
55°	332.1	350.2	368.4	379.0
57.5°	301.1	318.5	333.6	339.6
60°	273.8	288.2	298.0	304.8
62.5°	245.1	255.7	263.2	267.0
65°	217.1	224.7	228.4	232.2
67.5°	188.4	195.2	197.4	202.0
70°	158.1	165.7	167.2	169.4
72.5°	135.4	135.4	138.4	141.5
75°	108.2	109.7	111.2	111.2
77.5°	84.7	84.7	86.2	87.0
80°	62.0	62.8	62.8	62.0
82.5°	42.4	43.9	42.4	41.6
85°	23.4	26.5	25.0	25.0
87.5°	9.8	9.8	11.3	9.8
90°	4.3	3.1	1.8	0.6
92.5°	10.7	11.5	12.2	13.0
95°	19.1	24.2	29.4	34.6
97.5°	52.3	55.8	59.4	62.9
100°	103.3	100.8	98.3	95.8
102.5°	138.1	136.4	134.8	133.2
105°	173.0	171.7	170.3	168.9
107.5°	210.3	209.2	208.0	206.9
110°	247.9	246.8	245.8	244.8

TEST NUMBER: P1010949

CATALOG NUMBER: S123RDIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	283.8	282.9	282.0	281.1
115°	319.1	318.3	317.6	316.8
117.5°	354.6	353.7	352.8	351.9
120°	387.6	386.5	385.3	384.2
122.5°	419.8	418.9	418.0	417.1
125°	449.6	448.6	447.6	446.6
127.5°	479.1	478.0	477.0	476.0
130°	506.3	505.2	504.2	503.2
132.5°	532.4	531.3	530.3	529.3
135°	558.3	557.5	556.8	556.0
137.5°	581.7	580.6	579.6	578.6
140°	603.6	602.8	602.1	601.3
142.5°	624.6	623.8	623.1	622.3
145°	644.2	643.3	642.4	641.5
147.5°	662.1	661.5	660.8	660.2
150°	678.3	678.0	677.6	677.2
152.5°	692.9	692.8	692.6	692.5
155°	706.0	706.2	706.5	706.7
157.5°	718.0	718.0	718.0	718.0
160°	727.9	728.0	728.1	728.2
162.5°	736.8	737.1	737.5	737.9
165°	744.1	744.4	744.8	745.2
167.5°	750.0	750.5	751.0	751.5
170°	755.1	755.6	756.1	756.6
172.5°	758.1	758.7	759.4	760.0
175°	760.9	761.6	762.2	762.8
177.5°	762.0	762.7	763.3	763.9
180°	762.8	762.8	762.8	762.8

(END OF REPORT)