

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: P1010959

Luminaire Tested: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010959
REPORT IS A COMBINATION OF REPORTS P993485 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D805UB2750-4F0-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

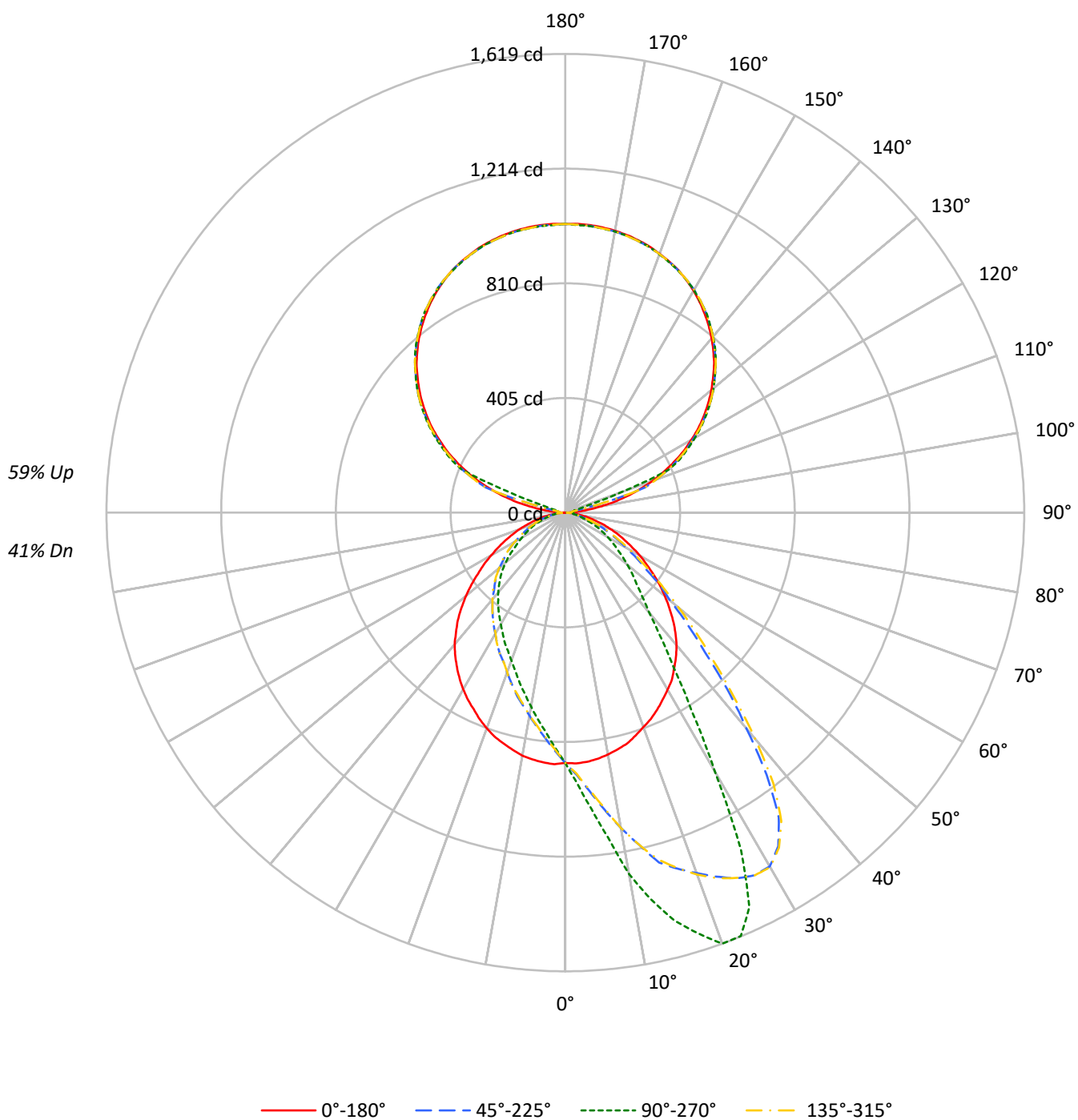
Lumens per Lamp: N/A
Luminaire Lumens: 5308.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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: P1010959

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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41		
1	96	92	89	85	88	84	81	78	70	67	65	56	55	53	43	43	42	36		
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36	31		
3	81	72	65	59	73	66	60	55	55	50	47	44	41	39	35	33	31	27		
4	74	64	56	50	67	59	52	47	49	44	40	40	36	34	31	29	27	23		
5	68	57	49	43	62	52	46	41	44	39	35	36	32	29	28	26	24	21		
6	63	51	43	38	57	47	40	35	40	34	31	33	29	26	26	23	21	18		
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16		
8	54	42	35	29	49	39	32	28	33	28	24	27	23	21	22	19	17	15		
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	20	18	16	13		
10	47	35	28	24	43	33	26	22	28	23	20	23	19	17	19	16	14	12		

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	1.6
10°-20°	271.6	5.1
20°-30°	427.8	8.1
30°-40°	444.8	8.4
40°-50°	380.6	7.2
50°-60°	290.1	5.5
60°-70°	185.9	3.5
70°-80°	89.1	1.7
80°-90°	25.5	0.5
90°-100°	35.9	0.7
100°-110°	173.7	3.3
110°-120°	425.7	8.0
120°-130°	540.4	10.2
130°-140°	577.3	10.9
140°-150°	539.8	10.2
150°-160°	435.4	8.2
160°-170°	281.0	5.3
170°-180°	96.8	1.8
0°-30°	786.1	14.8
0°-40°	1231.0	23.2
0°-60°	1901.6	35.8
0°-90°	2202.0	41.5
90°-120°	635.3	12.0
90°-150°	2292.7	43.2
90°-180°	3106.0	58.5
0°-180°	5308.0	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	23	1	23	1	4
95°	46	29	46	29	46	55
105°	226	33	226	33	226	239
115°	423	445	423	445	423	418
125°	596	609	596	609	596	533
135°	742	750	742	750	742	572
145°	857	865	857	865	857	536
155°	944	942	944	942	944	435
165°	995	993	995	993	995	281
175°	1019	1015	1019	1015	1019	97
180°	1019	1019	1019	1019	1019	

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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°	0.8	2.5	4.1	5.8	7.5	8.3	9.4	11.6	13.8	16.0	18.2
92.5°	17.4	16.4	15.4	14.4	13.4	12.9	13.7	15.2	16.7	18.2	19.7
95°	46.2	39.3	32.4	25.5	18.6	15.1	16.0	17.9	19.8	21.6	23.5
97.5°	84.0	79.3	74.6	69.9	65.2	62.8	58.5	49.9	41.4	32.8	24.2
100°	127.9	131.3	134.7	138.0	141.4	143.1	130.0	103.7	77.5	51.2	25.0
102.5°	177.9	180.1	182.3	184.4	186.6	187.7	173.1	143.8	114.5	85.3	56.0
105°	225.6	227.4	229.3	231.1	233.0	233.9	226.3	211.2	196.1	180.9	165.8
107.5°	276.3	277.8	279.3	280.8	282.3	283.1	284.4	286.9	289.4	291.9	294.4
110°	327.0	328.3	329.7	331.0	332.3	333.0	333.9	335.8	337.7	339.5	341.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	375.4	376.6	377.8	378.9	380.1	380.7	381.6	383.5	385.4	387.2	389.1
115°	423.1	424.1	425.1	426.2	427.2	427.7	428.5	430.0	431.5	433.0	434.5
117.5°	470.1	471.3	472.4	473.6	474.7	475.3	475.7	476.6	477.4	478.3	479.1
120°	513.2	514.7	516.2	517.7	519.2	520.0	520.3	520.8	521.3	521.8	522.3
122.5°	557.1	558.3	559.5	560.6	561.8	562.4	562.7	563.4	564.1	564.7	565.4
125°	596.5	597.8	599.2	600.5	601.8	602.5	602.8	603.5	604.2	604.8	605.5
127.5°	635.8	637.2	638.5	639.9	641.2	641.9	642.3	643.2	644.0	644.9	645.7
130°	672.2	673.5	674.9	676.2	677.5	678.2	678.5	679.2	679.9	680.5	681.2
132.5°	707.0	708.3	709.7	711.0	712.3	713.0	713.3	713.8	714.3	714.8	715.3
135°	742.5	743.5	744.5	745.6	746.6	747.1	747.4	748.1	748.8	749.4	750.1
137.5°	772.8	774.2	775.5	776.9	778.2	778.9	779.1	779.4	779.7	780.1	780.4
140°	803.1	804.1	805.1	806.1	807.1	807.6	807.9	808.4	808.9	809.4	809.9
142.5°	831.1	832.1	833.1	834.1	835.1	835.6	835.9	836.4	836.9	837.4	837.9
145°	856.8	858.0	859.2	860.3	861.5	862.1	862.3	862.6	863.0	863.3	863.7
147.5°	881.8	882.6	883.5	884.3	885.2	885.6	885.8	886.1	886.4	886.8	887.1
150°	904.5	905.0	905.5	906.0	906.5	906.8	907.0	907.3	907.6	908.0	908.3
152.5°	925.0	925.2	925.3	925.5	925.6	925.7	925.8	926.0	926.1	926.3	926.5
155°	943.9	943.6	943.2	942.9	942.6	942.4	942.5	942.6	942.8	942.9	943.1
157.5°	959.0	959.0	959.0	959.0	959.0	959.0	958.9	958.8	958.6	958.5	958.3
160°	972.6	972.4	972.3	972.1	972.0	971.9	971.8	971.6	971.5	971.3	971.1
162.5°	985.5	985.0	984.5	984.0	983.5	983.2	983.1	983.0	982.8	982.7	982.5
165°	995.4	994.9	994.4	993.9	993.4	993.1	993.0	992.8	992.7	992.5	992.3
167.5°	1003.7	1003.0	1002.4	1001.7	1001.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7
170°	1010.5	1009.8	1009.2	1008.5	1007.8	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5
172.5°	1015.0	1014.2	1013.4	1012.5	1011.7	1011.3	1011.4	1011.5	1011.7	1011.8	1012.0
175°	1018.8	1018.0	1017.1	1016.3	1015.4	1015.0	1015.1	1015.3	1015.4	1015.6	1015.8
177.5°	1020.3	1019.5	1018.7	1017.8	1017.0	1016.6	1016.7	1016.8	1017.0	1017.1	1017.3
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

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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°	18.9	19.5	20.2	20.9	21.2	21.4	21.7	22.0	22.4	22.7	22.4
92.5°	20.9	22.1	23.2	24.4	25.0	25.1	25.2	25.4	25.5	25.7	25.5
95°	24.7	25.9	27.0	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	25.6	26.9	28.3	29.6	30.3	30.4	30.5	30.7	30.8	31.0	30.8
100°	26.3	27.7	29.0	30.3	31.0	31.1	31.3	31.4	31.6	31.8	31.6
102.5°	50.4	44.9	39.3	33.8	31.0	31.2	31.5	31.8	32.2	32.5	32.2
105°	136.0	106.2	76.5	46.7	31.8	32.0	32.3	32.6	33.0	33.3	33.0
107.5°	268.5	242.6	216.7	190.8	177.9	166.9	144.8	122.8	100.7	78.7	100.7
110°	335.8	330.3	324.7	319.2	316.4	304.4	280.3	256.3	232.2	208.2	232.2



TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	390.6	392.1	393.6	395.1	395.9	395.7	395.4	395.1	394.7	394.4	394.7
115°	436.2	437.8	439.5	441.2	442.0	442.3	443.0	443.7	444.4	445.1	444.4
117.5°	480.5	481.8	483.2	484.5	485.2	485.3	485.4	485.6	485.7	485.9	485.7
120°	523.6	525.0	526.3	527.6	528.3	528.3	528.3	528.3	528.3	528.3	528.3
122.5°	566.2	567.1	567.9	568.8	569.2	569.3	569.5	569.6	569.8	570.0	569.8
125°	605.9	606.2	606.6	606.9	607.1	607.3	607.6	607.9	608.3	608.6	608.3
127.5°	646.2	646.7	647.2	647.7	647.9	647.7	647.4	647.1	646.7	646.4	646.7
130°	681.9	682.6	683.3	684.0	684.3	684.1	683.8	683.4	683.1	682.7	683.1
132.5°	716.0	716.6	717.3	718.0	718.3	718.1	717.6	717.1	716.6	716.1	716.6
135°	750.6	751.1	751.6	752.1	752.4	752.1	751.6	751.1	750.6	750.1	750.6
137.5°	781.2	782.1	782.9	783.8	784.2	784.0	783.7	783.4	783.0	782.7	783.0
140°	810.6	811.2	811.9	812.6	812.9	812.7	812.4	812.1	811.7	811.4	811.7
142.5°	838.4	838.9	839.4	839.9	840.2	839.9	839.4	838.9	838.4	837.9	838.4
145°	864.0	864.4	864.7	865.0	865.2	865.2	865.2	865.2	865.2	865.2	865.2
147.5°	887.4	887.8	888.1	888.4	888.6	888.2	887.3	886.5	885.6	884.8	885.6
150°	908.6	909.0	909.3	909.6	909.8	909.6	909.1	908.6	908.1	907.6	908.1
152.5°	927.2	927.8	928.5	929.2	929.5	929.1	928.2	927.4	926.5	925.7	926.5
155°	943.9	944.8	945.6	946.5	946.9	946.4	945.4	944.4	943.4	942.4	943.4
157.5°	959.3	960.3	961.3	962.3	962.8	962.1	960.8	959.5	958.1	956.8	958.1
160°	972.1	973.1	974.2	975.2	975.7	975.1	973.9	972.8	971.6	970.4	971.6
162.5°	983.7	984.9	986.0	987.2	987.8	987.3	986.3	985.2	984.2	983.2	984.2
165°	993.7	995.0	996.4	997.7	998.4	997.8	996.6	995.5	994.3	993.1	994.3
167.5°	1002.0	1003.4	1004.7	1006.0	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1002.0
170°	1008.8	1010.2	1011.5	1012.8	1013.5	1012.8	1011.5	1010.2	1008.8	1007.5	1008.8
172.5°	1013.4	1014.7	1016.1	1017.4	1018.1	1017.3	1015.8	1014.3	1012.8	1011.3	1012.8
175°	1017.0	1018.2	1019.3	1020.5	1021.1	1020.4	1019.1	1017.7	1016.4	1015.0	1016.4
177.5°	1018.7	1020.0	1021.4	1022.7	1023.4	1022.6	1020.9	1019.2	1017.5	1015.8	1017.5
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-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°	22.0	21.7	21.4	21.2	20.9	20.2	19.5	18.9	18.2	16.0	13.8
92.5°	25.4	25.2	25.1	25.0	24.4	23.2	22.1	20.9	19.7	18.2	16.7
95°	28.8	28.8	28.8	28.8	28.2	27.0	25.9	24.7	23.5	21.6	19.8
97.5°	30.7	30.5	30.4	30.3	29.6	28.3	26.9	25.6	24.2	32.8	41.4
100°	31.4	31.3	31.1	31.0	30.3	29.0	27.7	26.3	25.0	51.2	77.5
102.5°	31.8	31.5	31.2	31.0	33.8	39.3	44.9	50.4	56.0	85.3	114.5
105°	32.6	32.3	32.0	31.8	46.7	76.5	106.2	136.0	165.8	180.9	196.1
107.5°	122.8	144.8	166.9	177.9	190.8	216.7	242.6	268.5	294.4	291.9	289.4
110°	256.3	280.3	304.4	316.4	319.2	324.7	330.3	335.8	341.4	339.5	337.7

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	395.1	395.4	395.7	395.9	395.1	393.6	392.1	390.6	389.1	387.2	385.4
115°	443.7	443.0	442.3	442.0	441.2	439.5	437.8	436.2	434.5	433.0	431.5
117.5°	485.6	485.4	485.3	485.2	484.5	483.2	481.8	480.5	479.1	478.3	477.4
120°	528.3	528.3	528.3	528.3	527.6	526.3	525.0	523.6	522.3	521.8	521.3
122.5°	569.6	569.5	569.3	569.2	568.8	567.9	567.1	566.2	565.4	564.7	564.1
125°	607.9	607.6	607.3	607.1	606.9	606.6	606.2	605.9	605.5	604.8	604.2
127.5°	647.1	647.4	647.7	647.9	647.7	647.2	646.7	646.2	645.7	644.9	644.0
130°	683.4	683.8	684.1	684.3	684.0	683.3	682.6	681.9	681.2	680.5	679.9
132.5°	717.1	717.6	718.1	718.3	718.0	717.3	716.6	716.0	715.3	714.8	714.3
135°	751.1	751.6	752.1	752.4	752.1	751.6	751.1	750.6	750.1	749.4	748.8
137.5°	783.4	783.7	784.0	784.2	783.8	782.9	782.1	781.2	780.4	780.1	779.7
140°	812.1	812.4	812.7	812.9	812.6	811.9	811.2	810.6	809.9	809.4	808.9
142.5°	838.9	839.4	839.9	840.2	839.9	839.4	838.9	838.4	837.9	837.4	836.9
145°	865.2	865.2	865.2	865.2	865.0	864.7	864.4	864.0	863.7	863.3	863.0
147.5°	886.5	887.3	888.2	888.6	888.4	888.1	887.8	887.4	887.1	886.8	886.4
150°	908.6	909.1	909.6	909.8	909.6	909.3	909.0	908.6	908.3	908.0	907.6
152.5°	927.4	928.2	929.1	929.5	929.2	928.5	927.8	927.2	926.5	926.3	926.1
155°	944.4	945.4	946.4	946.9	946.5	945.6	944.8	943.9	943.1	942.9	942.8
157.5°	959.5	960.8	962.1	962.8	962.3	961.3	960.3	959.3	958.3	958.5	958.6
160°	972.8	973.9	975.1	975.7	975.2	974.2	973.1	972.1	971.1	971.3	971.5
162.5°	985.2	986.3	987.3	987.8	987.2	986.0	984.9	983.7	982.5	982.7	982.8
165°	995.5	996.6	997.8	998.4	997.7	996.4	995.0	993.7	992.3	992.5	992.7
167.5°	1003.4	1004.7	1006.0	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1000.7	1000.7
170°	1010.2	1011.5	1012.8	1013.5	1012.8	1011.5	1010.2	1008.8	1007.5	1007.5	1007.5
172.5°	1014.3	1015.8	1017.3	1018.1	1017.4	1016.1	1014.7	1013.4	1012.0	1011.8	1011.7
175°	1017.7	1019.1	1020.4	1021.1	1020.5	1019.3	1018.2	1017.0	1015.8	1015.6	1015.4
177.5°	1019.2	1020.9	1022.6	1023.4	1022.7	1021.4	1020.0	1018.7	1017.3	1017.1	1017.0
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

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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°	11.6	9.4	8.3	7.5	5.8	4.1	2.5	0.8	2.5	4.1	5.8
92.5°	15.2	13.7	12.9	13.4	14.4	15.4	16.4	17.4	16.4	15.4	14.4
95°	17.9	16.0	15.1	18.6	25.5	32.4	39.3	46.2	39.3	32.4	25.5
97.5°	49.9	58.5	62.8	65.2	69.9	74.6	79.3	84.0	79.3	74.6	69.9
100°	103.7	130.0	143.1	141.4	138.0	134.7	131.3	127.9	131.3	134.7	138.0
102.5°	143.8	173.1	187.7	186.6	184.4	182.3	180.1	177.9	180.1	182.3	184.4
105°	211.2	226.3	233.9	233.0	231.1	229.3	227.4	225.6	227.4	229.3	231.1
107.5°	286.9	284.4	283.1	282.3	280.8	279.3	277.8	276.3	277.8	279.3	280.8
110°	335.8	333.9	333.0	332.3	331.0	329.7	328.3	327.0	328.3	329.7	331.0

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	383.5	381.6	380.7	380.1	378.9	377.8	376.6	375.4	376.6	377.8	378.9
115°	430.0	428.5	427.7	427.2	426.2	425.1	424.1	423.1	424.1	425.1	426.2
117.5°	476.6	475.7	475.3	474.7	473.6	472.4	471.3	470.1	471.3	472.4	473.6
120°	520.8	520.3	520.0	519.2	517.7	516.2	514.7	513.2	514.7	516.2	517.7
122.5°	563.4	562.7	562.4	561.8	560.6	559.5	558.3	557.1	558.3	559.5	560.6
125°	603.5	602.8	602.5	601.8	600.5	599.2	597.8	596.5	597.8	599.2	600.5
127.5°	643.2	642.3	641.9	641.2	639.9	638.5	637.2	635.8	637.2	638.5	639.9
130°	679.2	678.5	678.2	677.5	676.2	674.9	673.5	672.2	673.5	674.9	676.2
132.5°	713.8	713.3	713.0	712.3	711.0	709.7	708.3	707.0	708.3	709.7	711.0
135°	748.1	747.4	747.1	746.6	745.6	744.5	743.5	742.5	743.5	744.5	745.6
137.5°	779.4	779.1	778.9	778.2	776.9	775.5	774.2	772.8	774.2	775.5	776.9
140°	808.4	807.9	807.6	807.1	806.1	805.1	804.1	803.1	804.1	805.1	806.1
142.5°	836.4	835.9	835.6	835.1	834.1	833.1	832.1	831.1	832.1	833.1	834.1
145°	862.6	862.3	862.1	861.5	860.3	859.2	858.0	856.8	858.0	859.2	860.3
147.5°	886.1	885.8	885.6	885.2	884.3	883.5	882.6	881.8	882.6	883.5	884.3
150°	907.3	907.0	906.8	906.5	906.0	905.5	905.0	904.5	905.0	905.5	906.0
152.5°	926.0	925.8	925.7	925.6	925.5	925.3	925.2	925.0	925.2	925.3	925.5
155°	942.6	942.5	942.4	942.6	942.9	943.2	943.6	943.9	943.6	943.2	942.9
157.5°	958.8	958.9	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0	959.0
160°	971.6	971.8	971.9	972.0	972.1	972.3	972.4	972.6	972.4	972.3	972.1
162.5°	983.0	983.1	983.2	983.5	984.0	984.5	985.0	985.5	985.0	984.5	984.0
165°	992.8	993.0	993.1	993.4	993.9	994.4	994.9	995.4	994.9	994.4	993.9
167.5°	1000.7	1000.7	1000.7	1001.0	1001.7	1002.4	1003.0	1003.7	1003.0	1002.4	1001.7
170°	1007.5	1007.5	1007.5	1007.8	1008.5	1009.2	1009.8	1010.5	1009.8	1009.2	1008.5
172.5°	1011.5	1011.4	1011.3	1011.7	1012.5	1013.4	1014.2	1015.0	1014.2	1013.4	1012.5
175°	1015.3	1015.1	1015.0	1015.4	1016.3	1017.1	1018.0	1018.8	1018.0	1017.1	1016.3
177.5°	1016.8	1016.7	1016.6	1017.0	1017.8	1018.7	1019.5	1020.3	1019.5	1018.7	1017.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-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°	7.5	8.3	9.4	11.6	13.8	16.0	18.2	18.9	19.5	20.2	20.9
92.5°	13.4	12.9	13.7	15.2	16.7	18.2	19.7	20.9	22.1	23.2	24.4
95°	18.6	15.1	16.0	17.9	19.8	21.6	23.5	24.7	25.9	27.0	28.2
97.5°	65.2	62.8	58.5	49.9	41.4	32.8	24.2	25.6	26.9	28.3	29.6
100°	141.4	143.1	130.0	103.7	77.5	51.2	25.0	26.3	27.7	29.0	30.3
102.5°	186.6	187.7	173.1	143.8	114.5	85.3	56.0	50.4	44.9	39.3	33.8
105°	233.0	233.9	226.3	211.2	196.1	180.9	165.8	136.0	106.2	76.5	46.7
107.5°	282.3	283.1	284.4	286.9	289.4	291.9	294.4	268.5	242.6	216.7	190.8
110°	332.3	333.0	333.9	335.8	337.7	339.5	341.4	335.8	330.3	324.7	319.2

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	380.1	380.7	381.6	383.5	385.4	387.2	389.1	390.6	392.1	393.6	395.1
115°	427.2	427.7	428.5	430.0	431.5	433.0	434.5	436.2	437.8	439.5	441.2
117.5°	474.7	475.3	475.7	476.6	477.4	478.3	479.1	480.5	481.8	483.2	484.5
120°	519.2	520.0	520.3	520.8	521.3	521.8	522.3	523.6	525.0	526.3	527.6
122.5°	561.8	562.4	562.7	563.4	564.1	564.7	565.4	566.2	567.1	567.9	568.8
125°	601.8	602.5	602.8	603.5	604.2	604.8	605.5	605.9	606.2	606.6	606.9
127.5°	641.2	641.9	642.3	643.2	644.0	644.9	645.7	646.2	646.7	647.2	647.7
130°	677.5	678.2	678.5	679.2	679.9	680.5	681.2	681.9	682.6	683.3	684.0
132.5°	712.3	713.0	713.3	713.8	714.3	714.8	715.3	716.0	716.6	717.3	718.0
135°	746.6	747.1	747.4	748.1	748.8	749.4	750.1	750.6	751.1	751.6	752.1
137.5°	778.2	778.9	779.1	779.4	779.7	780.1	780.4	781.2	782.1	782.9	783.8
140°	807.1	807.6	807.9	808.4	808.9	809.4	809.9	810.6	811.2	811.9	812.6
142.5°	835.1	835.6	835.9	836.4	836.9	837.4	837.9	838.4	838.9	839.4	839.9
145°	861.5	862.1	862.3	862.6	863.0	863.3	863.7	864.0	864.4	864.7	865.0
147.5°	885.2	885.6	885.8	886.1	886.4	886.8	887.1	887.4	887.8	888.1	888.4
150°	906.5	906.8	907.0	907.3	907.6	908.0	908.3	908.6	909.0	909.3	909.6
152.5°	925.6	925.7	925.8	926.0	926.1	926.3	926.5	927.2	927.8	928.5	929.2
155°	942.6	942.4	942.5	942.6	942.8	942.9	943.1	943.9	944.8	945.6	946.5
157.5°	959.0	959.0	958.9	958.8	958.6	958.5	958.3	959.3	960.3	961.3	962.3
160°	972.0	971.9	971.8	971.6	971.5	971.3	971.1	972.1	973.1	974.2	975.2
162.5°	983.5	983.2	983.1	983.0	982.8	982.7	982.5	983.7	984.9	986.0	987.2
165°	993.4	993.1	993.0	992.8	992.7	992.5	992.3	993.7	995.0	996.4	997.7
167.5°	1001.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1002.0	1003.4	1004.7	1006.0
170°	1007.8	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1008.8	1010.2	1011.5	1012.8
172.5°	1011.7	1011.3	1011.4	1011.5	1011.7	1011.8	1012.0	1013.4	1014.7	1016.1	1017.4
175°	1015.4	1015.0	1015.1	1015.3	1015.4	1015.6	1015.8	1017.0	1018.2	1019.3	1020.5
177.5°	1017.0	1016.6	1016.7	1016.8	1017.0	1017.1	1017.3	1018.7	1020.0	1021.4	1022.7
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-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°	21.2	21.4	21.7	22.0	22.4	22.7	22.4	22.0	21.7	21.4	21.2
92.5°	25.0	25.1	25.2	25.4	25.5	25.7	25.5	25.4	25.2	25.1	25.0
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	30.3	30.4	30.5	30.7	30.8	31.0	30.8	30.7	30.5	30.4	30.3
100°	31.0	31.1	31.3	31.4	31.6	31.8	31.6	31.4	31.3	31.1	31.0
102.5°	31.0	31.2	31.5	31.8	32.2	32.5	32.2	31.8	31.5	31.2	31.0
105°	31.8	32.0	32.3	32.6	33.0	33.3	33.0	32.6	32.3	32.0	31.8
107.5°	177.9	166.9	144.8	122.8	100.7	78.7	100.7	122.8	144.8	166.9	177.9
110°	316.4	304.4	280.3	256.3	232.2	208.2	232.2	256.3	280.3	304.4	316.4

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	395.9	395.7	395.4	395.1	394.7	394.4	394.7	395.1	395.4	395.7	395.9
115°	442.0	442.3	443.0	443.7	444.4	445.1	444.4	443.7	443.0	442.3	442.0
117.5°	485.2	485.3	485.4	485.6	485.7	485.9	485.7	485.6	485.4	485.3	485.2
120°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
122.5°	569.2	569.3	569.5	569.6	569.8	570.0	569.8	569.6	569.5	569.3	569.2
125°	607.1	607.3	607.6	607.9	608.3	608.6	608.3	607.9	607.6	607.3	607.1
127.5°	647.9	647.7	647.4	647.1	646.7	646.4	646.7	647.1	647.4	647.7	647.9
130°	684.3	684.1	683.8	683.4	683.1	682.7	683.1	683.4	683.8	684.1	684.3
132.5°	718.3	718.1	717.6	717.1	716.6	716.1	716.6	717.1	717.6	718.1	718.3
135°	752.4	752.1	751.6	751.1	750.6	750.1	750.6	751.1	751.6	752.1	752.4
137.5°	784.2	784.0	783.7	783.4	783.0	782.7	783.0	783.4	783.7	784.0	784.2
140°	812.9	812.7	812.4	812.1	811.7	811.4	811.7	812.1	812.4	812.7	812.9
142.5°	840.2	839.9	839.4	838.9	838.4	837.9	838.4	838.9	839.4	839.9	840.2
145°	865.2	865.2	865.2	865.2	865.2	865.2	865.2	865.2	865.2	865.2	865.2
147.5°	888.6	888.2	887.3	886.5	885.6	884.8	885.6	886.5	887.3	888.2	888.6
150°	909.8	909.6	909.1	908.6	908.1	907.6	908.1	908.6	909.1	909.6	909.8
152.5°	929.5	929.1	928.2	927.4	926.5	925.7	926.5	927.4	928.2	929.1	929.5
155°	946.9	946.4	945.4	944.4	943.4	942.4	943.4	944.4	945.4	946.4	946.9
157.5°	962.8	962.1	960.8	959.5	958.1	956.8	958.1	959.5	960.8	962.1	962.8
160°	975.7	975.1	973.9	972.8	971.6	970.4	971.6	972.8	973.9	975.1	975.7
162.5°	987.8	987.3	986.3	985.2	984.2	983.2	984.2	985.2	986.3	987.3	987.8
165°	998.4	997.8	996.6	995.5	994.3	993.1	994.3	995.5	996.6	997.8	998.4
167.5°	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1002.0	1003.4	1004.7	1006.0	1006.7
170°	1013.5	1012.8	1011.5	1010.2	1008.8	1007.5	1008.8	1010.2	1011.5	1012.8	1013.5
172.5°	1018.1	1017.3	1015.8	1014.3	1012.8	1011.3	1012.8	1014.3	1015.8	1017.3	1018.1
175°	1021.1	1020.4	1019.1	1017.7	1016.4	1015.0	1016.4	1017.7	1019.1	1020.4	1021.1
177.5°	1023.4	1022.6	1020.9	1019.2	1017.5	1015.8	1017.5	1019.2	1020.9	1022.6	1023.4
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

TEST NUMBER: P1010959

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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°	20.9	20.2	19.5	18.9	18.2	16.0	13.8	11.6	9.4	8.3	7.5
92.5°	24.4	23.2	22.1	20.9	19.7	18.2	16.7	15.2	13.7	12.9	13.4
95°	28.2	27.0	25.9	24.7	23.5	21.6	19.8	17.9	16.0	15.1	18.6
97.5°	29.6	28.3	26.9	25.6	24.2	32.8	41.4	49.9	58.5	62.8	65.2
100°	30.3	29.0	27.7	26.3	25.0	51.2	77.5	103.7	130.0	143.1	141.4
102.5°	33.8	39.3	44.9	50.4	56.0	85.3	114.5	143.8	173.1	187.7	186.6
105°	46.7	76.5	106.2	136.0	165.8	180.9	196.1	211.2	226.3	233.9	233.0
107.5°	190.8	216.7	242.6	268.5	294.4	291.9	289.4	286.9	284.4	283.1	282.3
110°	319.2	324.7	330.3	335.8	341.4	339.5	337.7	335.8	333.9	333.0	332.3

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CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	395.1	393.6	392.1	390.6	389.1	387.2	385.4	383.5	381.6	380.7	380.1
115°	441.2	439.5	437.8	436.2	434.5	433.0	431.5	430.0	428.5	427.7	427.2
117.5°	484.5	483.2	481.8	480.5	479.1	478.3	477.4	476.6	475.7	475.3	474.7
120°	527.6	526.3	525.0	523.6	522.3	521.8	521.3	520.8	520.3	520.0	519.2
122.5°	568.8	567.9	567.1	566.2	565.4	564.7	564.1	563.4	562.7	562.4	561.8
125°	606.9	606.6	606.2	605.9	605.5	604.8	604.2	603.5	602.8	602.5	601.8
127.5°	647.7	647.2	646.7	646.2	645.7	644.9	644.0	643.2	642.3	641.9	641.2
130°	684.0	683.3	682.6	681.9	681.2	680.5	679.9	679.2	678.5	678.2	677.5
132.5°	718.0	717.3	716.6	716.0	715.3	714.8	714.3	713.8	713.3	713.0	712.3
135°	752.1	751.6	751.1	750.6	750.1	749.4	748.8	748.1	747.4	747.1	746.6
137.5°	783.8	782.9	782.1	781.2	780.4	780.1	779.7	779.4	779.1	778.9	778.2
140°	812.6	811.9	811.2	810.6	809.9	809.4	808.9	808.4	807.9	807.6	807.1
142.5°	839.9	839.4	838.9	838.4	837.9	837.4	836.9	836.4	835.9	835.6	835.1
145°	865.0	864.7	864.4	864.0	863.7	863.3	863.0	862.6	862.3	862.1	861.5
147.5°	888.4	888.1	887.8	887.4	887.1	886.8	886.4	886.1	885.8	885.6	885.2
150°	909.6	909.3	909.0	908.6	908.3	908.0	907.6	907.3	907.0	906.8	906.5
152.5°	929.2	928.5	927.8	927.2	926.5	926.3	926.1	926.0	925.8	925.7	925.6
155°	946.5	945.6	944.8	943.9	943.1	942.9	942.8	942.6	942.5	942.4	942.6
157.5°	962.3	961.3	960.3	959.3	958.3	958.5	958.6	958.8	958.9	959.0	959.0
160°	975.2	974.2	973.1	972.1	971.1	971.3	971.5	971.6	971.8	971.9	972.0
162.5°	987.2	986.0	984.9	983.7	982.5	982.7	982.8	983.0	983.1	983.2	983.5
165°	997.7	996.4	995.0	993.7	992.3	992.5	992.7	992.8	993.0	993.1	993.4
167.5°	1006.0	1004.7	1003.4	1002.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1001.0
170°	1012.8	1011.5	1010.2	1008.8	1007.5	1007.5	1007.5	1007.5	1007.5	1007.5	1007.8
172.5°	1017.4	1016.1	1014.7	1013.4	1012.0	1011.8	1011.7	1011.5	1011.4	1011.3	1011.7
175°	1020.5	1019.3	1018.2	1017.0	1015.8	1015.6	1015.4	1015.3	1015.1	1015.0	1015.4
177.5°	1022.7	1021.4	1020.0	1018.7	1017.3	1017.1	1017.0	1016.8	1016.7	1016.6	1017.0
180°	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8	1018.8

TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-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°	5.8	4.1	2.5	0.8
92.5°	14.4	15.4	16.4	17.4
95°	25.5	32.4	39.3	46.2
97.5°	69.9	74.6	79.3	84.0
100°	138.0	134.7	131.3	127.9
102.5°	184.4	182.3	180.1	177.9
105°	231.1	229.3	227.4	225.6
107.5°	280.8	279.3	277.8	276.3
110°	331.0	329.7	328.3	327.0



TEST NUMBER: P1010959

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	378.9	377.8	376.6	375.4
115°	426.2	425.1	424.1	423.1
117.5°	473.6	472.4	471.3	470.1
120°	517.7	516.2	514.7	513.2
122.5°	560.6	559.5	558.3	557.1
125°	600.5	599.2	597.8	596.5
127.5°	639.9	638.5	637.2	635.8
130°	676.2	674.9	673.5	672.2
132.5°	711.0	709.7	708.3	707.0
135°	745.6	744.5	743.5	742.5
137.5°	776.9	775.5	774.2	772.8
140°	806.1	805.1	804.1	803.1
142.5°	834.1	833.1	832.1	831.1
145°	860.3	859.2	858.0	856.8
147.5°	884.3	883.5	882.6	881.8
150°	906.0	905.5	905.0	904.5
152.5°	925.5	925.3	925.2	925.0
155°	942.9	943.2	943.6	943.9
157.5°	959.0	959.0	959.0	959.0
160°	972.1	972.3	972.4	972.6
162.5°	984.0	984.5	985.0	985.5
165°	993.9	994.4	994.9	995.4
167.5°	1001.7	1002.4	1003.0	1003.7
170°	1008.5	1009.2	1009.8	1010.5
172.5°	1012.5	1013.4	1014.2	1015.0
175°	1016.3	1017.1	1018.0	1018.8
177.5°	1017.8	1018.7	1019.5	1020.3
180°	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)