

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: P1010963

Luminaire Tested: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010963
REPORT IS A COMBINATION OF REPORTS P993489 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

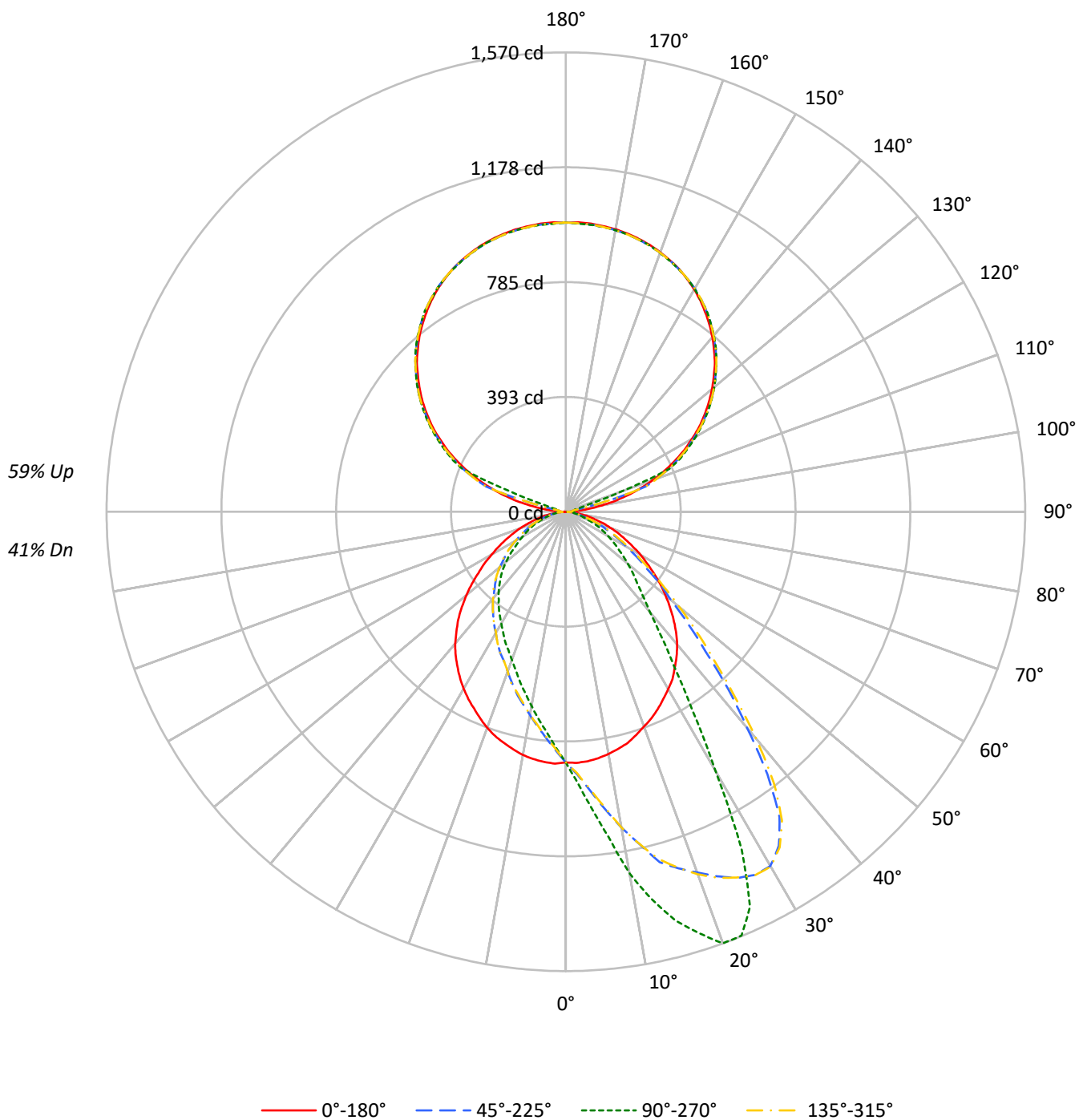
Lumens per Lamp: N/A
Luminaire Lumens: 5148.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9220	9220	9220	9220
5°	9228	10619	9252	7879
10°	9146	12819	9185	6881
15°	9052	14549	9052	6068
20°	8867	15693	8917	5382
25°	8731	14909	8713	4911
30°	8573	10330	8555	4451
35°	8383	6632	8344	4103
40°	8146	4684	8105	3758
45°	7733	3748	7723	3421
50°	7226	3135	7204	3028
55°	6657	2585	6605	2567
60°	6100	2135	6038	2182
65°	5444	1710	5478	1849
70°	4838	1187	4968	1495
75°	4101	881	4268	1149
80°	3263	584	3545	863
85°	2325	277	2536	536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 12310 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.6
10°-20°	263.3	5.1
20°-30°	414.7	8.1
30°-40°	431.3	8.4
40°-50°	369.0	7.2
50°-60°	281.3	5.5
60°-70°	180.2	3.5
70°-80°	86.3	1.7
80°-90°	24.7	0.5
90°-100°	34.9	0.7
100°-110°	168.5	3.3
110°-120°	412.9	8.0
120°-130°	524.2	10.2
130°-140°	560.0	10.9
140°-150°	523.6	10.2
150°-160°	422.4	8.2
160°-170°	272.6	5.3
170°-180°	93.9	1.8
0°-30°	762.2	14.8
0°-40°	1193.5	23.2
0°-60°	1843.7	35.8
0°-90°	2135.0	41.5
90°-120°	616.3	12.0
90°-150°	2224.1	43.2
90°-180°	3013.0	58.5
0°-180°	5148.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	857	857	857	857	857	
5°	856	1017	858	755	856	81
15°	818	1446	818	603	818	230
25°	744	1490	742	491	744	343
35°	649	646	646	400	649	406
45°	521	345	520	315	521	401
55°	367	216	364	215	367	329
65°	225	125	227	135	225	225
75°	108	53	112	69	108	116
85°	24	12	26	24	24	27
90°	1	22	1	22	1	4
95°	45	28	45	28	45	54
105°	219	32	219	32	219	232
115°	410	432	410	432	410	405
125°	579	590	579	590	579	517
135°	720	728	720	728	720	555
145°	831	839	831	839	831	520
155°	916	914	916	914	916	422
165°	966	963	966	963	966	273
175°	988	985	988	985	988	94
180°	988	988	988	988	988	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	858.8	864.7	869.1	872.0	879.3	883.7	887.4	894.0	894.0	895.5	898.4
5°	855.9	868.3	877.1	888.9	904.3	911.6	921.9	930.7	943.1	949.7	956.3
7.5°	849.3	866.9	885.2	902.8	925.5	940.2	950.5	973.2	989.4	1009.2	1024.6
10°	840.5	864.7	888.1	915.3	946.1	968.1	983.5	1013.6	1044.4	1072.2	1095.7
12.5°	829.5	858.8	892.5	925.5	968.8	990.8	1015.8	1053.2	1097.2	1132.4	1163.9
15°	817.7	851.5	889.6	929.9	984.2	1015.0	1051.0	1096.4	1145.6	1196.2	1239.4
17.5°	799.4	841.9	884.5	943.1	1007.0	1025.3	1056.1	1118.4	1179.3	1224.8	1277.6
20°	781.1	828.7	882.3	935.1	1004.0	1046.6	1075.2	1141.2	1206.4	1261.4	1312.0
22.5°	764.2	814.1	869.8	936.5	1001.1	1043.6	1079.6	1148.5	1224.0	1285.6	1348.0
25°	743.7	797.9	859.5	922.6	1001.1	1033.4	1073.0	1152.9	1232.8	1304.0	1381.0
27.5°	721.7	776.7	837.5	902.1	974.0	1021.6	1060.5	1146.3	1243.8	1320.1	1399.3
30°	699.7	756.1	814.8	872.7	953.4	998.9	1043.6	1138.2	1249.7	1337.0	1397.9
32.5°	678.4	726.1	784.0	840.5	920.4	970.3	1020.9	1130.2	1251.9	1325.2	1354.6
35°	649.1	698.9	745.9	806.0	886.7	935.8	995.2	1129.4	1242.4	1287.8	1273.2
37.5°	621.9	663.7	708.5	762.0	844.9	908.7	970.3	1110.4	1210.8	1213.8	1130.9
40°	591.9	626.3	663.7	720.2	809.7	872.7	939.5	1081.0	1153.6	1110.4	964.4
42.5°	557.4	588.2	617.5	672.5	770.1	840.5	912.3	1044.4	1070.8	971.0	819.2
45°	520.7	545.6	572.8	630.7	728.3	797.9	869.8	987.9	960.7	819.9	675.5
47.5°	482.6	503.8	530.2	583.1	683.5	754.7	822.9	907.2	838.3	687.2	566.2
50°	444.4	461.3	487.0	541.2	638.1	702.6	765.7	820.7	723.9	589.7	467.9
52.5°	407.0	420.2	446.6	492.8	586.7	648.3	693.8	715.1	616.8	487.0	406.3
55°	367.4	382.1	399.7	446.6	539.8	585.3	615.3	614.6	513.4	412.9	335.9
57.5°	329.3	342.5	357.9	404.8	480.4	511.2	536.8	524.4	428.3	338.1	288.2
60°	295.6	302.9	319.8	359.4	416.6	443.0	457.6	436.4	349.8	285.3	238.4
62.5°	258.9	266.2	280.2	317.6	352.8	366.7	379.2	352.0	289.0	232.5	203.9
65°	225.2	234.7	243.5	273.6	292.6	309.5	308.0	285.3	225.9	189.2	165.7
67.5°	195.8	199.5	206.8	225.2	234.0	246.4	247.2	221.5	181.9	154.0	140.1
70°	164.3	167.9	173.1	181.9	187.7	190.7	189.2	166.5	137.1	120.3	107.8
72.5°	137.1	136.4	140.1	140.1	145.9	145.2	140.8	123.2	104.1	90.2	82.9
75°	107.8	108.5	109.3	107.8	105.6	102.7	99.0	85.8	73.3	66.7	60.1
77.5°	84.3	82.9	83.6	78.5	75.5	72.6	67.5	60.9	50.6	49.1	46.2
80°	60.1	59.4	58.7	56.5	49.9	46.9	43.3	39.6	37.4	35.9	35.2
82.5°	40.3	40.3	38.9	34.5	30.8	28.6	27.9	26.4	24.2	24.2	23.5
85°	24.2	23.5	22.0	17.6	15.4	15.4	15.4	15.4	13.9	13.9	13.2
87.5°	9.5	8.8	6.6	6.6	5.9	5.9	5.9	5.1	5.1	4.4	4.4
90°	0.7	2.3	4.0	5.6	7.3	8.1	9.2	11.3	13.4	15.5	17.6
92.5°	16.9	15.9	14.9	14.0	13.0	12.5	13.2	14.7	16.2	17.6	19.1
95°	44.8	38.1	31.4	24.7	18.0	14.7	15.6	17.4	19.2	21.0	22.8
97.5°	81.5	76.9	72.3	67.8	63.2	60.9	56.7	48.4	40.1	31.8	23.5
100°	124.1	127.4	130.6	133.9	137.2	138.8	126.1	100.6	75.1	49.7	24.2
102.5°	172.6	174.7	176.8	178.9	181.0	182.1	167.9	139.5	111.1	82.7	54.3
105°	218.8	220.6	222.4	224.2	226.0	226.9	219.6	204.9	190.2	175.5	160.8
107.5°	268.0	269.5	270.9	272.4	273.9	274.6	275.8	278.3	280.7	283.2	285.6
110°	317.2	318.5	319.8	321.1	322.4	323.1	324.0	325.8	327.6	329.4	331.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	364.2	365.3	366.5	367.6	368.7	369.3	370.2	372.0	373.8	375.6	377.4
115°	410.5	411.5	412.5	413.4	414.4	414.9	415.6	417.1	418.6	420.0	421.5
117.5°	456.0	457.1	458.3	459.4	460.5	461.1	461.5	462.3	463.2	464.0	464.8
120°	497.8	499.3	500.7	502.2	503.7	504.4	504.7	505.2	505.7	506.2	506.7
122.5°	540.4	541.6	542.7	543.9	545.0	545.6	545.9	546.6	547.2	547.9	548.5
125°	578.6	579.9	581.2	582.5	583.8	584.5	584.8	585.5	586.1	586.8	587.4
127.5°	616.8	618.1	619.4	620.7	622.0	622.7	623.1	623.9	624.7	625.5	626.3
130°	652.0	653.3	654.6	655.9	657.2	657.9	658.2	658.9	659.5	660.2	660.8
132.5°	685.8	687.1	688.4	689.7	691.0	691.7	691.9	692.4	692.9	693.4	693.9
135°	720.3	721.3	722.3	723.2	724.2	724.7	725.0	725.7	726.4	727.0	727.7
137.5°	749.7	751.0	752.3	753.6	754.9	755.6	755.8	756.1	756.4	756.7	757.0
140°	779.1	780.1	781.1	782.0	783.0	783.5	783.7	784.2	784.7	785.2	785.7
142.5°	806.2	807.2	808.2	809.1	810.1	810.6	810.8	811.3	811.8	812.3	812.8
145°	831.2	832.3	833.5	834.6	835.7	836.3	836.5	836.8	837.1	837.5	837.8
147.5°	855.4	856.2	857.0	857.9	858.7	859.1	859.3	859.6	859.9	860.3	860.6
150°	877.5	878.0	878.5	879.0	879.5	879.7	879.9	880.2	880.5	880.8	881.1
152.5°	897.3	897.5	897.6	897.8	897.9	898.0	898.1	898.3	898.4	898.6	898.8
155°	915.6	915.3	915.0	914.7	914.4	914.2	914.3	914.4	914.6	914.7	914.9
157.5°	930.3	930.3	930.3	930.3	930.3	930.3	930.2	930.1	929.9	929.8	929.6
160°	943.5	943.3	943.2	943.0	942.9	942.8	942.7	942.6	942.4	942.3	942.1
162.5°	956.0	955.5	955.0	954.5	954.0	953.8	953.7	953.6	953.4	953.3	953.1
165°	965.6	965.1	964.6	964.1	963.6	963.4	963.3	963.1	963.0	962.8	962.6
167.5°	973.7	973.0	972.4	971.7	971.0	970.7	970.7	970.7	970.7	970.7	970.7
170°	980.3	979.6	979.0	978.3	977.6	977.3	977.3	977.3	977.3	977.3	977.3
172.5°	984.7	983.9	983.1	982.2	981.4	981.0	981.1	981.2	981.4	981.5	981.7
175°	988.3	987.5	986.7	985.9	985.1	984.7	984.8	984.9	985.1	985.2	985.4
177.5°	989.8	989.0	988.2	987.3	986.5	986.1	986.2	986.4	986.5	986.7	986.9
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	904.3	904.3	910.9	917.5	913.8	916.0	924.1	921.1	927.0	926.3	928.5
5°	972.5	980.6	987.2	1001.1	1003.3	1001.1	1015.0	1018.7	1025.3	1017.2	1020.9
7.5°	1049.5	1066.4	1082.5	1103.0	1109.6	1111.1	1118.4	1128.7	1137.5	1121.4	1129.4
10°	1124.3	1150.0	1183.0	1201.3	1217.4	1223.3	1229.2	1235.8	1246.0	1255.6	1248.2
12.5°	1205.0	1242.4	1273.9	1306.9	1326.7	1324.5	1341.4	1345.8	1353.9	1356.1	1359.0
15°	1271.0	1323.8	1343.6	1392.7	1397.1	1411.8	1430.9	1447.7	1449.9	1445.5	1445.5
17.5°	1334.0	1379.5	1414.7	1454.3	1462.4	1474.9	1499.1	1507.1	1510.1	1509.3	1509.3
20°	1385.4	1415.5	1474.9	1507.9	1521.1	1537.2	1554.1	1564.3	1566.5	1569.5	1565.1
22.5°	1419.1	1464.6	1513.0	1540.1	1551.1	1557.0	1568.0	1570.9	1567.3	1568.0	1568.7
25°	1445.5	1490.3	1519.6	1526.9	1526.2	1518.9	1510.8	1496.9	1495.4	1489.5	1477.8
27.5°	1452.9	1469.7	1466.1	1436.0	1405.9	1403.0	1354.6	1328.2	1298.1	1302.5	1285.6
30°	1413.3	1391.3	1339.2	1262.9	1231.4	1180.0	1125.8	1069.3	1047.3	1023.1	1067.8
32.5°	1316.4	1238.0	1145.6	1046.6	993.8	948.3	890.3	849.3	825.8	806.0	844.1
35°	1170.5	1048.0	925.5	831.7	788.4	747.3	693.1	672.5	643.2	646.1	649.8
37.5°	982.8	847.8	755.4	663.0	634.4	617.5	577.9	546.4	536.1	533.2	533.2
40°	806.7	696.0	613.9	541.2	519.2	505.3	473.8	459.1	448.1	445.2	448.8
42.5°	667.4	572.8	509.0	460.6	445.2	427.6	414.4	396.0	393.8	388.7	395.3
45°	560.3	478.2	430.5	395.3	382.1	375.5	360.8	349.8	345.4	344.7	349.8
47.5°	475.2	411.4	369.6	347.6	337.4	330.8	318.3	313.9	309.5	311.0	308.8
50°	399.0	351.3	324.2	304.4	297.8	291.2	283.1	278.7	276.5	276.5	275.8
52.5°	342.5	302.9	285.3	267.0	264.0	260.4	251.6	248.6	245.0	244.2	247.2
55°	293.4	266.2	248.6	237.6	234.7	227.4	223.7	220.0	217.8	216.4	217.1
57.5°	250.8	230.3	218.6	209.0	203.9	201.0	194.4	193.6	192.1	192.1	191.4
60°	215.6	201.0	187.0	181.1	177.5	173.8	173.1	168.7	166.5	167.9	167.2
62.5°	182.6	170.9	162.8	156.2	154.0	151.1	148.9	147.4	145.2	145.9	145.9
65°	152.5	143.0	137.1	131.3	130.5	127.6	126.9	125.4	125.4	124.7	126.1
67.5°	125.4	118.8	113.7	110.0	107.8	108.5	105.6	103.4	103.4	102.7	104.9
70°	99.7	96.1	90.9	86.5	83.6	83.6	79.9	79.2	79.2	79.2	78.5
72.5°	77.0	70.4	68.2	66.7	66.7	66.7	65.3	65.3	64.5	65.3	64.5
75°	57.2	56.5	55.0	54.3	54.3	53.5	52.8	52.8	52.8	52.8	52.8
77.5°	44.7	44.7	43.3	42.5	42.5	42.5	41.8	41.8	41.1	41.1	41.1
80°	33.0	33.0	31.5	31.5	31.5	30.8	30.8	30.8	31.5	30.8	30.8
82.5°	22.7	22.7	22.0	22.7	22.0	21.3	21.3	21.3	20.5	21.3	21.3
85°	13.2	13.2	12.5	11.7	12.5	12.5	11.7	12.5	11.7	12.5	11.7
87.5°	5.1	4.4	4.4	4.4	3.7	4.4	3.7	3.7	4.4	3.7	4.4
90°	18.3	18.9	19.6	20.3	20.6	20.8	21.1	21.4	21.7	22.0	21.7
92.5°	20.2	21.4	22.5	23.6	24.2	24.3	24.5	24.6	24.8	25.0	24.8
95°	23.9	25.1	26.2	27.3	27.9	27.9	27.9	27.9	27.9	27.9	27.9
97.5°	24.8	26.1	27.4	28.7	29.4	29.5	29.6	29.8	29.9	30.1	29.9
100°	25.5	26.8	28.1	29.4	30.1	30.2	30.3	30.5	30.6	30.8	30.6
102.5°	48.9	43.5	38.2	32.8	30.1	30.3	30.6	30.9	31.3	31.6	31.3
105°	131.9	103.0	74.1	45.2	30.8	31.0	31.3	31.6	32.0	32.3	32.0
107.5°	260.5	235.4	210.3	185.2	172.6	161.9	140.5	119.2	97.8	76.4	97.8
110°	325.8	320.4	315.0	309.6	306.9	295.2	271.9	248.6	225.2	201.9	225.2

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	378.9	380.3	381.8	383.3	384.0	383.8	383.5	383.2	382.9	382.6	382.9
115°	423.1	424.7	426.4	428.0	428.8	429.1	429.8	430.5	431.1	431.8	431.1
117.5°	466.1	467.4	468.7	470.0	470.7	470.8	470.9	471.1	471.2	471.4	471.2
120°	508.0	509.3	510.6	511.9	512.5	512.5	512.5	512.5	512.5	512.5	512.5
122.5°	549.3	550.1	551.0	551.8	552.2	552.3	552.4	552.6	552.7	552.9	552.7
125°	587.7	588.1	588.4	588.7	588.9	589.1	589.4	589.7	590.1	590.4	590.1
127.5°	626.8	627.3	627.8	628.3	628.5	628.3	628.0	627.7	627.4	627.1	627.4
130°	661.5	662.1	662.8	663.5	663.8	663.6	663.3	663.0	662.6	662.3	662.6
132.5°	694.5	695.2	695.8	696.5	696.8	696.6	696.1	695.6	695.1	694.6	695.1
135°	728.2	728.7	729.2	729.7	729.9	729.7	729.2	728.7	728.2	727.7	728.2
137.5°	757.8	758.6	759.5	760.3	760.7	760.5	760.2	759.9	759.5	759.2	759.5
140°	786.3	787.0	787.6	788.3	788.6	788.4	788.1	787.8	787.4	787.1	787.4
142.5°	813.3	813.8	814.3	814.8	815.0	814.8	814.3	813.8	813.3	812.8	813.3
145°	838.1	838.5	838.8	839.1	839.3	839.3	839.3	839.3	839.3	839.3	839.3
147.5°	860.9	861.2	861.5	861.8	862.0	861.6	860.8	860.0	859.2	858.4	859.2
150°	881.4	881.8	882.1	882.4	882.6	882.4	881.9	881.4	880.9	880.4	880.9
152.5°	899.4	900.1	900.7	901.4	901.7	901.3	900.5	899.6	898.8	898.0	898.8
155°	915.7	916.5	917.4	918.2	918.6	918.1	917.1	916.2	915.2	914.2	915.2
157.5°	930.6	931.6	932.5	933.5	934.0	933.3	932.0	930.7	929.4	928.1	929.4
160°	943.1	944.1	945.0	946.0	946.5	945.9	944.8	943.6	942.5	941.3	942.5
162.5°	954.2	955.4	956.5	957.6	958.2	957.7	956.7	955.8	954.8	953.8	954.8
165°	963.9	965.2	966.5	967.8	968.5	967.9	966.8	965.7	964.5	963.4	964.5
167.5°	972.0	973.3	974.6	975.9	976.6	975.9	974.6	973.3	972.0	970.7	972.0
170°	978.6	979.9	981.2	982.5	983.2	982.5	981.2	979.9	978.6	977.3	978.6
172.5°	983.0	984.3	985.6	986.9	987.6	986.9	985.4	983.9	982.5	981.0	982.5
175°	986.5	987.7	988.8	989.9	990.5	989.9	988.6	987.3	986.0	984.7	986.0
177.5°	988.2	989.5	990.8	992.1	992.7	991.9	990.3	988.6	987.0	985.4	987.0
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	924.8	920.4	917.5	915.3	913.1	919.7	910.9	901.3	894.7	890.3	888.9
5°	1021.6	1012.1	1004.0	997.4	998.9	998.9	983.5	966.6	951.9	943.9	935.1
7.5°	1133.8	1123.6	1107.4	1103.8	1100.8	1082.5	1067.1	1036.3	1018.0	999.6	983.5
10°	1245.3	1232.1	1216.7	1211.6	1204.2	1181.5	1158.0	1118.4	1095.7	1062.0	1040.7
12.5°	1349.5	1333.3	1317.9	1314.2	1303.2	1283.4	1243.1	1202.0	1163.2	1127.2	1089.8
15°	1436.7	1432.3	1408.9	1394.2	1370.0	1342.8	1334.0	1278.3	1229.2	1191.8	1124.3
17.5°	1510.1	1489.5	1467.5	1458.0	1448.5	1416.9	1385.4	1328.2	1275.4	1220.4	1177.1
20°	1568.7	1546.0	1530.6	1516.7	1512.3	1476.3	1426.5	1375.9	1317.9	1256.3	1199.8
22.5°	1571.7	1568.7	1558.5	1550.4	1541.6	1518.1	1478.5	1415.5	1353.9	1286.4	1212.3
25°	1510.8	1506.4	1535.7	1528.4	1534.3	1525.5	1504.2	1451.4	1379.5	1300.3	1225.5
27.5°	1327.4	1372.2	1418.4	1434.5	1445.5	1477.1	1487.3	1458.0	1400.1	1315.7	1232.1
30°	1078.1	1137.5	1212.3	1252.6	1283.4	1342.1	1418.4	1427.9	1400.8	1333.3	1230.6
32.5°	846.3	900.6	960.7	1008.4	1049.5	1169.8	1272.4	1346.5	1359.7	1324.5	1234.3
35°	682.1	705.5	762.7	808.2	863.9	966.6	1087.6	1207.2	1287.8	1292.2	1223.3
37.5°	562.5	575.0	624.9	650.5	683.5	773.7	886.7	1042.9	1168.3	1227.7	1192.5
40°	465.7	494.3	522.9	537.6	561.0	623.4	731.9	854.4	1009.9	1119.9	1144.8
42.5°	404.1	416.6	434.9	455.4	470.1	524.4	597.0	709.2	849.3	1002.6	1071.5
45°	356.4	360.8	379.9	393.1	408.5	446.6	498.0	591.9	715.1	866.1	983.5
47.5°	316.8	325.6	335.9	344.0	354.2	383.6	427.6	495.8	604.3	739.3	865.4
50°	281.6	286.8	300.0	303.6	311.0	331.5	365.2	417.3	506.8	614.6	745.1
52.5°	248.6	258.2	263.3	268.4	275.0	291.9	313.9	356.4	423.9	525.1	635.9
55°	223.0	225.9	233.2	237.6	242.8	254.5	273.6	305.1	357.9	438.6	543.4
57.5°	198.0	198.0	205.4	209.0	214.2	223.0	239.8	264.0	302.2	362.3	458.4
60°	171.6	172.3	178.2	182.6	184.1	192.9	206.8	225.9	255.2	299.2	377.7
62.5°	148.1	151.8	154.7	156.2	161.3	166.5	178.2	191.4	212.0	250.8	306.6
65°	128.3	129.1	131.3	132.7	134.9	140.8	149.6	158.4	176.0	204.6	250.1
67.5°	105.6	108.5	111.5	111.5	113.7	116.6	125.4	132.7	145.9	162.8	193.6
70°	79.2	80.7	85.1	87.3	90.2	95.3	99.7	104.1	114.4	126.9	150.3
72.5°	66.0	66.0	67.5	68.2	68.2	71.9	78.5	82.9	88.0	96.8	112.9
75°	52.8	52.8	55.0	54.3	55.7	57.2	57.9	60.9	63.8	70.4	79.9
77.5°	41.8	42.5	42.5	43.3	43.3	44.0	44.7	46.2	47.7	51.3	55.7
80°	30.8	31.5	31.5	32.3	32.3	33.0	33.7	34.5	35.9	37.4	39.6
82.5°	21.3	22.0	22.0	22.7	22.0	22.7	23.5	23.5	24.2	25.7	26.4
85°	12.5	12.5	13.2	12.5	12.5	12.5	13.2	13.2	13.9	16.1	16.1
87.5°	3.7	4.4	3.7	4.4	4.4	4.4	4.4	5.1	5.1	5.9	6.6
90°	21.4	21.1	20.8	20.6	20.3	19.6	18.9	18.3	17.6	15.5	13.4
92.5°	24.6	24.5	24.3	24.2	23.6	22.5	21.4	20.2	19.1	17.6	16.2
95°	27.9	27.9	27.9	27.9	27.3	26.2	25.1	23.9	22.8	21.0	19.2
97.5°	29.8	29.6	29.5	29.4	28.7	27.4	26.1	24.8	23.5	31.8	40.1
100°	30.5	30.3	30.2	30.1	29.4	28.1	26.8	25.5	24.2	49.7	75.1
102.5°	30.9	30.6	30.3	30.1	32.8	38.2	43.5	48.9	54.3	82.7	111.1
105°	31.6	31.3	31.0	30.8	45.2	74.1	103.0	131.9	160.8	175.5	190.2
107.5°	119.2	140.5	161.9	172.6	185.2	210.3	235.4	260.5	285.6	283.2	280.7
110°	248.6	271.9	295.2	306.9	309.6	315.0	320.4	325.8	331.2	329.4	327.6

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	383.2	383.5	383.8	384.0	383.3	381.8	380.3	378.9	377.4	375.6	373.8
115°	430.5	429.8	429.1	428.8	428.0	426.4	424.7	423.1	421.5	420.0	418.6
117.5°	471.1	470.9	470.8	470.7	470.0	468.7	467.4	466.1	464.8	464.0	463.2
120°	512.5	512.5	512.5	512.5	511.9	510.6	509.3	508.0	506.7	506.2	505.7
122.5°	552.6	552.4	552.3	552.2	551.8	551.0	550.1	549.3	548.5	547.9	547.2
125°	589.7	589.4	589.1	588.9	588.7	588.4	588.1	587.7	587.4	586.8	586.1
127.5°	627.7	628.0	628.3	628.5	628.3	627.8	627.3	626.8	626.3	625.5	624.7
130°	663.0	663.3	663.6	663.8	663.5	662.8	662.1	661.5	660.8	660.2	659.5
132.5°	695.6	696.1	696.6	696.8	696.5	695.8	695.2	694.5	693.9	693.4	692.9
135°	728.7	729.2	729.7	729.9	729.7	729.2	728.7	728.2	727.7	727.0	726.4
137.5°	759.9	760.2	760.5	760.7	760.3	759.5	758.6	757.8	757.0	756.7	756.4
140°	787.8	788.1	788.4	788.6	788.3	787.6	787.0	786.3	785.7	785.2	784.7
142.5°	813.8	814.3	814.8	815.0	814.8	814.3	813.8	813.3	812.8	812.3	811.8
145°	839.3	839.3	839.3	839.3	839.1	838.8	838.5	838.1	837.8	837.5	837.1
147.5°	860.0	860.8	861.6	862.0	861.8	861.5	861.2	860.9	860.6	860.3	859.9
150°	881.4	881.9	882.4	882.6	882.4	882.1	881.8	881.4	881.1	880.8	880.5
152.5°	899.6	900.5	901.3	901.7	901.4	900.7	900.1	899.4	898.8	898.6	898.4
155°	916.2	917.1	918.1	918.6	918.2	917.4	916.5	915.7	914.9	914.7	914.6
157.5°	930.7	932.0	933.3	934.0	933.5	932.5	931.6	930.6	929.6	929.8	929.9
160°	943.6	944.8	945.9	946.5	946.0	945.0	944.1	943.1	942.1	942.3	942.4
162.5°	955.8	956.7	957.7	958.2	957.6	956.5	955.4	954.2	953.1	953.3	953.4
165°	965.7	966.8	967.9	968.5	967.8	966.5	965.2	963.9	962.6	962.8	963.0
167.5°	973.3	974.6	975.9	976.6	975.9	974.6	973.3	972.0	970.7	970.7	970.7
170°	979.9	981.2	982.5	983.2	982.5	981.2	979.9	978.6	977.3	977.3	977.3
172.5°	983.9	985.4	986.9	987.6	986.9	985.6	984.3	983.0	981.7	981.5	981.4
175°	987.3	988.6	989.9	990.5	989.9	988.8	987.7	986.5	985.4	985.2	985.1
177.5°	988.6	990.3	991.9	992.7	992.1	990.8	989.5	988.2	986.9	986.7	986.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	886.7	883.0	879.3	879.3	871.3	863.9	860.3	861.7	857.3	851.5	845.6
5°	925.5	910.9	907.9	899.9	888.9	873.5	865.4	858.1	849.3	837.5	826.5
7.5°	961.5	942.4	932.1	924.1	902.8	881.5	863.9	852.2	836.8	819.2	806.0
10°	1008.4	973.2	962.2	943.9	913.8	883.7	863.2	844.1	822.9	802.3	784.7
12.5°	1045.8	1005.5	985.0	966.6	927.7	889.6	855.1	831.7	806.0	783.3	760.5
15°	1088.4	1042.9	1007.0	985.0	935.8	889.6	850.7	817.7	789.1	761.3	741.5
17.5°	1108.9	1051.7	1035.6	1004.0	932.9	886.7	839.0	803.8	769.3	737.1	713.6
20°	1141.2	1074.4	1034.1	1012.8	949.7	881.5	825.8	785.5	749.5	715.1	690.1
22.5°	1143.4	1070.8	1044.4	1004.0	926.3	866.1	814.1	764.9	723.1	690.9	665.2
25°	1138.2	1064.2	1027.5	995.2	930.7	857.3	790.6	742.2	701.1	663.7	633.7
27.5°	1136.0	1045.1	1010.6	978.4	905.7	831.7	776.7	721.7	674.7	641.7	610.9
30°	1133.1	1024.6	982.8	945.3	878.6	811.9	745.9	698.2	653.5	611.7	580.9
32.5°	1114.0	996.7	954.1	914.5	842.7	775.9	723.9	673.3	624.9	586.0	558.1
35°	1108.2	971.0	915.3	872.7	802.3	742.9	687.9	646.1	600.7	561.8	528.8
37.5°	1091.3	944.6	884.5	830.2	756.9	700.4	660.1	618.3	574.2	532.4	506.0
40°	1062.0	913.8	845.6	789.9	714.3	657.1	619.7	588.9	545.6	508.2	476.0
42.5°	1018.7	882.3	808.9	750.3	666.7	613.1	582.3	553.0	516.3	477.4	451.0
45°	968.8	840.5	772.3	707.0	621.9	569.8	537.6	520.0	486.2	453.2	422.4
47.5°	900.6	797.2	729.7	662.3	575.7	525.1	499.4	481.8	458.4	422.4	397.5
50°	814.8	741.5	677.7	617.5	530.2	481.8	456.2	443.0	423.2	397.5	373.3
52.5°	719.5	676.9	624.1	568.4	484.0	438.6	415.1	404.8	390.2	366.0	345.4
55°	623.4	605.1	569.1	514.1	435.6	398.2	377.7	364.5	353.5	335.9	318.3
57.5°	537.6	528.8	503.8	461.3	395.3	356.4	338.8	330.0	321.2	308.0	290.4
60°	448.8	458.4	432.7	411.4	351.3	317.6	302.2	292.6	288.2	276.5	265.5
62.5°	371.8	380.6	366.0	349.8	307.3	277.2	267.7	258.9	256.0	245.7	234.7
65°	302.2	313.2	302.2	293.4	267.7	242.8	231.0	226.6	223.7	217.1	208.3
67.5°	240.6	251.6	246.4	235.4	227.4	206.8	200.2	195.8	194.4	189.2	181.9
70°	181.1	196.6	198.0	191.4	184.1	174.5	170.1	168.7	165.0	160.6	156.2
72.5°	130.5	148.1	148.9	148.9	144.5	144.5	140.1	137.9	137.9	133.5	128.3
75°	96.1	107.8	109.3	110.7	112.9	115.1	112.2	112.2	111.5	107.1	104.9
77.5°	63.8	74.1	77.7	82.9	85.8	85.8	87.3	88.7	87.3	85.1	83.6
80°	41.1	48.4	52.8	55.7	60.1	62.3	64.5	65.3	63.8	63.1	60.9
82.5°	27.1	29.3	31.5	35.2	40.3	44.0	44.0	43.3	44.7	44.0	43.3
85°	15.4	16.9	17.6	18.3	21.3	24.9	25.7	26.4	27.9	26.4	24.9
87.5°	5.9	6.6	6.6	6.6	8.1	8.8	11.0	13.9	13.2	11.7	11.7
90°	11.3	9.2	8.1	7.3	5.6	4.0	2.3	0.7	2.3	4.0	5.6
92.5°	14.7	13.2	12.5	13.0	14.0	14.9	15.9	16.9	15.9	14.9	14.0
95°	17.4	15.6	14.7	18.0	24.7	31.4	38.1	44.8	38.1	31.4	24.7
97.5°	48.4	56.7	60.9	63.2	67.8	72.3	76.9	81.5	76.9	72.3	67.8
100°	100.6	126.1	138.8	137.2	133.9	130.6	127.4	124.1	127.4	130.6	133.9
102.5°	139.5	167.9	182.1	181.0	178.9	176.8	174.7	172.6	174.7	176.8	178.9
105°	204.9	219.6	226.9	226.0	224.2	222.4	220.6	218.8	220.6	222.4	224.2
107.5°	278.3	275.8	274.6	273.9	272.4	270.9	269.5	268.0	269.5	270.9	272.4
110°	325.8	324.0	323.1	322.4	321.1	319.8	318.5	317.2	318.5	319.8	321.1

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	372.0	370.2	369.3	368.7	367.6	366.5	365.3	364.2	365.3	366.5	367.6
115°	417.1	415.6	414.9	414.4	413.4	412.5	411.5	410.5	411.5	412.5	413.4
117.5°	462.3	461.5	461.1	460.5	459.4	458.3	457.1	456.0	457.1	458.3	459.4
120°	505.2	504.7	504.4	503.7	502.2	500.7	499.3	497.8	499.3	500.7	502.2
122.5°	546.6	545.9	545.6	545.0	543.9	542.7	541.6	540.4	541.6	542.7	543.9
125°	585.5	584.8	584.5	583.8	582.5	581.2	579.9	578.6	579.9	581.2	582.5
127.5°	623.9	623.1	622.7	622.0	620.7	619.4	618.1	616.8	618.1	619.4	620.7
130°	658.9	658.2	657.9	657.2	655.9	654.6	653.3	652.0	653.3	654.6	655.9
132.5°	692.4	691.9	691.7	691.0	689.7	688.4	687.1	685.8	687.1	688.4	689.7
135°	725.7	725.0	724.7	724.2	723.2	722.3	721.3	720.3	721.3	722.3	723.2
137.5°	756.1	755.8	755.6	754.9	753.6	752.3	751.0	749.7	751.0	752.3	753.6
140°	784.2	783.7	783.5	783.0	782.0	781.1	780.1	779.1	780.1	781.1	782.0
142.5°	811.3	810.8	810.6	810.1	809.1	808.2	807.2	806.2	807.2	808.2	809.1
145°	836.8	836.5	836.3	835.7	834.6	833.5	832.3	831.2	832.3	833.5	834.6
147.5°	859.6	859.3	859.1	858.7	857.9	857.0	856.2	855.4	856.2	857.0	857.9
150°	880.2	879.9	879.7	879.5	879.0	878.5	878.0	877.5	878.0	878.5	879.0
152.5°	898.3	898.1	898.0	897.9	897.8	897.6	897.5	897.3	897.5	897.6	897.8
155°	914.4	914.3	914.2	914.4	914.7	915.0	915.3	915.6	915.3	915.0	914.7
157.5°	930.1	930.2	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
160°	942.6	942.7	942.8	942.9	943.0	943.2	943.3	943.5	943.3	943.2	943.0
162.5°	953.6	953.7	953.8	954.0	954.5	955.0	955.5	956.0	955.5	955.0	954.5
165°	963.1	963.3	963.4	963.6	964.1	964.6	965.1	965.6	965.1	964.6	964.1
167.5°	970.7	970.7	970.7	971.0	971.7	972.4	973.0	973.7	973.0	972.4	971.7
170°	977.3	977.3	977.3	977.6	978.3	979.0	979.6	980.3	979.6	979.0	978.3
172.5°	981.2	981.1	981.0	981.4	982.2	983.1	983.9	984.7	983.9	983.1	982.2
175°	984.9	984.8	984.7	985.1	985.9	986.7	987.5	988.3	987.5	986.7	985.9
177.5°	986.4	986.2	986.1	986.5	987.3	988.2	989.0	989.8	989.0	988.2	987.3
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	845.6	841.9	840.5	836.8	828.0	822.1	815.5	811.1	811.9	808.2	810.4
5°	819.2	818.5	813.3	806.0	793.5	786.9	775.2	769.3	766.4	767.1	762.7
7.5°	797.2	790.6	786.9	775.2	763.5	749.5	740.0	734.9	730.5	726.1	723.1
10°	772.3	766.4	760.5	748.1	731.9	718.7	705.5	700.4	693.8	690.9	688.7
12.5°	745.9	742.2	734.9	720.2	701.9	689.4	674.0	671.1	662.3	656.4	654.9
15°	721.7	719.5	706.3	689.4	671.1	658.6	645.4	636.6	621.9	624.9	619.7
17.5°	696.0	686.5	678.4	655.7	646.9	627.8	612.4	608.0	597.7	591.1	584.5
20°	667.4	661.5	651.3	636.6	615.3	593.3	581.6	574.2	568.4	558.1	555.2
22.5°	640.3	632.9	624.1	605.1	586.7	568.4	552.2	545.6	538.3	531.0	526.6
25°	619.0	608.0	598.5	575.0	556.6	541.2	531.0	520.0	509.7	505.3	503.8
27.5°	586.0	579.4	569.8	547.8	531.0	514.1	504.6	497.2	486.2	481.1	476.7
30°	564.7	551.5	540.5	522.9	506.0	487.7	478.9	470.1	463.5	456.9	451.8
32.5°	536.1	525.8	517.0	499.4	482.6	465.7	456.2	443.0	439.3	434.2	428.3
35°	508.2	501.6	492.1	473.0	454.7	443.0	432.7	420.2	415.8	412.2	407.0
37.5°	481.8	472.3	465.7	447.4	431.2	417.3	409.2	399.0	396.0	391.6	388.0
40°	459.1	449.6	443.0	424.6	407.8	393.1	388.0	377.7	373.3	368.2	366.0
42.5°	433.4	425.4	416.6	403.4	385.8	371.1	360.8	355.0	349.1	346.9	342.5
45°	406.3	399.0	392.4	377.7	359.4	349.1	340.3	332.2	327.8	324.2	321.2
47.5°	382.8	376.2	367.4	351.3	336.6	327.1	318.3	310.2	305.8	301.4	297.8
50°	355.7	352.0	342.5	327.1	313.2	302.2	294.1	286.8	283.8	278.7	272.8
52.5°	331.5	324.9	316.8	304.4	291.9	278.7	267.7	263.3	258.2	255.2	250.1
55°	302.9	298.5	289.7	278.7	265.5	254.5	246.4	240.6	234.0	231.0	224.4
57.5°	278.7	270.6	266.2	252.3	239.8	228.8	223.0	217.1	209.8	205.4	202.4
60°	252.3	245.0	238.4	226.6	217.8	206.1	197.3	192.1	187.0	181.1	178.2
62.5°	226.6	220.8	212.7	203.2	192.1	182.6	176.0	168.7	165.7	159.9	157.7
65°	198.8	194.4	187.7	176.7	167.9	159.9	153.3	147.4	144.5	142.3	140.8
67.5°	173.8	167.9	163.5	154.0	144.5	137.9	134.2	130.5	126.9	124.7	122.5
70°	148.1	143.7	139.3	130.5	123.9	118.1	115.1	112.2	110.0	107.8	105.6
72.5°	121.7	119.5	115.1	109.3	104.1	99.7	97.5	93.9	91.7	88.0	86.5
75°	100.5	96.8	94.6	89.5	85.1	81.4	78.5	74.1	71.1	69.7	68.9
77.5°	79.2	77.7	74.8	70.4	68.2	64.5	60.1	58.7	57.2	57.2	56.5
80°	59.4	57.2	55.0	51.3	49.1	46.2	46.2	46.2	45.5	46.2	45.5
82.5°	40.3	38.9	37.4	35.2	34.5	34.5	35.2	35.2	35.2	35.2	35.2
85°	23.5	23.5	23.5	24.2	23.5	23.5	24.2	24.9	24.2	24.2	23.5
87.5°	11.0	11.0	11.7	11.7	12.5	12.5	12.5	12.5	12.5	12.5	13.2
90°	7.3	8.1	9.2	11.3	13.4	15.5	17.6	18.3	18.9	19.6	20.3
92.5°	13.0	12.5	13.2	14.7	16.2	17.6	19.1	20.2	21.4	22.5	23.6
95°	18.0	14.7	15.6	17.4	19.2	21.0	22.8	23.9	25.1	26.2	27.3
97.5°	63.2	60.9	56.7	48.4	40.1	31.8	23.5	24.8	26.1	27.4	28.7
100°	137.2	138.8	126.1	100.6	75.1	49.7	24.2	25.5	26.8	28.1	29.4
102.5°	181.0	182.1	167.9	139.5	111.1	82.7	54.3	48.9	43.5	38.2	32.8
105°	226.0	226.9	219.6	204.9	190.2	175.5	160.8	131.9	103.0	74.1	45.2
107.5°	273.9	274.6	275.8	278.3	280.7	283.2	285.6	260.5	235.4	210.3	185.2
110°	322.4	323.1	324.0	325.8	327.6	329.4	331.2	325.8	320.4	315.0	309.6

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	368.7	369.3	370.2	372.0	373.8	375.6	377.4	378.9	380.3	381.8	383.3
115°	414.4	414.9	415.6	417.1	418.6	420.0	421.5	423.1	424.7	426.4	428.0
117.5°	460.5	461.1	461.5	462.3	463.2	464.0	464.8	466.1	467.4	468.7	470.0
120°	503.7	504.4	504.7	505.2	505.7	506.2	506.7	508.0	509.3	510.6	511.9
122.5°	545.0	545.6	545.9	546.6	547.2	547.9	548.5	549.3	550.1	551.0	551.8
125°	583.8	584.5	584.8	585.5	586.1	586.8	587.4	587.7	588.1	588.4	588.7
127.5°	622.0	622.7	623.1	623.9	624.7	625.5	626.3	626.8	627.3	627.8	628.3
130°	657.2	657.9	658.2	658.9	659.5	660.2	660.8	661.5	662.1	662.8	663.5
132.5°	691.0	691.7	691.9	692.4	692.9	693.4	693.9	694.5	695.2	695.8	696.5
135°	724.2	724.7	725.0	725.7	726.4	727.0	727.7	728.2	728.7	729.2	729.7
137.5°	754.9	755.6	755.8	756.1	756.4	756.7	757.0	757.8	758.6	759.5	760.3
140°	783.0	783.5	783.7	784.2	784.7	785.2	785.7	786.3	787.0	787.6	788.3
142.5°	810.1	810.6	810.8	811.3	811.8	812.3	812.8	813.3	813.8	814.3	814.8
145°	835.7	836.3	836.5	836.8	837.1	837.5	837.8	838.1	838.5	838.8	839.1
147.5°	858.7	859.1	859.3	859.6	859.9	860.3	860.6	860.9	861.2	861.5	861.8
150°	879.5	879.7	879.9	880.2	880.5	880.8	881.1	881.4	881.8	882.1	882.4
152.5°	897.9	898.0	898.1	898.3	898.4	898.6	898.8	899.4	900.1	900.7	901.4
155°	914.4	914.2	914.3	914.4	914.6	914.7	914.9	915.7	916.5	917.4	918.2
157.5°	930.3	930.3	930.2	930.1	929.9	929.8	929.6	930.6	931.6	932.5	933.5
160°	942.9	942.8	942.7	942.6	942.4	942.3	942.1	943.1	944.1	945.0	946.0
162.5°	954.0	953.8	953.7	953.6	953.4	953.3	953.1	954.2	955.4	956.5	957.6
165°	963.6	963.4	963.3	963.1	963.0	962.8	962.6	963.9	965.2	966.5	967.8
167.5°	971.0	970.7	970.7	970.7	970.7	970.7	970.7	972.0	973.3	974.6	975.9
170°	977.6	977.3	977.3	977.3	977.3	977.3	977.3	978.6	979.9	981.2	982.5
172.5°	981.4	981.0	981.1	981.2	981.4	981.5	981.7	983.0	984.3	985.6	986.9
175°	985.1	984.7	984.8	984.9	985.1	985.2	985.4	986.5	987.7	988.8	989.9
177.5°	986.5	986.1	986.2	986.4	986.5	986.7	986.9	988.2	989.5	990.8	992.1
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	809.7	810.4	808.2	803.8	803.1	804.5	808.9	807.5	803.8	810.4	804.5
5°	764.9	761.3	759.8	761.3	756.9	754.7	759.1	756.9	759.1	759.8	762.0
7.5°	721.7	722.4	718.0	718.7	712.9	714.3	714.3	714.3	716.5	718.0	720.9
10°	684.3	685.7	680.6	681.3	676.9	674.0	676.2	680.6	680.6	680.6	682.1
12.5°	654.2	647.6	643.9	643.2	638.1	636.6	641.0	642.5	646.1	646.1	648.3
15°	616.8	615.3	612.4	612.4	599.9	602.9	604.3	609.5	616.8	610.9	612.4
17.5°	583.1	579.4	575.7	574.2	572.8	568.4	574.2	573.5	577.9	578.7	580.9
20°	553.0	550.0	542.7	543.4	544.9	538.3	542.0	542.0	546.4	550.8	555.9
22.5°	523.6	520.7	517.0	518.5	514.1	512.6	512.6	516.3	521.4	525.1	524.4
25°	500.9	495.8	493.6	491.4	489.2	490.6	488.4	492.1	495.8	498.0	495.8
27.5°	475.2	473.0	468.6	466.4	462.8	464.2	465.7	468.6	470.8	470.8	473.0
30°	450.3	447.4	445.9	443.7	443.7	440.8	441.5	444.4	446.6	448.8	451.8
32.5°	426.1	423.9	421.7	421.7	420.2	419.5	418.8	423.2	423.2	427.6	427.6
35°	406.3	402.6	402.6	399.0	400.4	399.7	398.2	401.2	401.9	404.8	404.1
37.5°	384.3	384.3	382.8	379.2	376.2	377.0	380.6	380.6	382.8	382.1	384.3
40°	362.3	360.8	360.8	358.6	357.9	357.2	357.9	358.6	362.3	361.6	362.3
42.5°	340.3	341.0	337.4	337.4	337.4	335.2	335.9	336.6	338.1	339.6	341.8
45°	319.0	317.6	316.8	315.4	313.9	314.6	313.9	316.8	316.1	317.6	319.8
47.5°	296.3	294.1	293.4	290.4	290.4	291.9	291.2	293.4	294.1	296.3	294.8
50°	274.3	271.4	269.2	269.9	265.5	267.0	267.0	269.2	271.4	272.1	273.6
52.5°	248.6	247.9	247.2	243.5	242.8	242.0	242.8	243.5	246.4	248.6	249.4
55°	223.7	223.0	218.6	217.1	214.9	214.9	216.4	217.1	222.2	223.0	225.9
57.5°	201.0	198.8	193.6	192.9	192.9	192.9	190.7	193.6	195.1	198.8	198.8
60°	176.0	176.0	171.6	171.6	172.3	171.6	171.6	172.3	172.3	175.3	176.7
62.5°	156.2	155.5	155.5	154.0	153.3	154.0	153.3	153.3	154.0	156.2	158.4
65°	138.6	137.9	137.1	136.4	134.9	134.9	135.7	137.1	137.1	138.6	139.3
67.5°	121.7	121.7	120.3	120.3	119.5	118.8	119.5	118.8	121.7	121.7	122.5
70°	104.9	104.1	101.9	101.2	99.0	99.7	99.7	101.9	102.7	104.1	105.6
72.5°	84.3	84.3	82.9	81.4	82.1	80.7	80.7	81.4	81.4	83.6	84.3
75°	69.7	68.2	67.5	68.2	67.5	68.9	67.5	67.5	68.9	68.9	68.9
77.5°	57.2	57.2	56.5	56.5	57.2	56.5	57.2	57.2	57.2	56.5	57.2
80°	46.9	46.2	46.2	46.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5
82.5°	35.2	35.2	34.5	35.2	35.2	34.5	35.2	34.5	34.5	35.2	35.2
85°	23.5	24.9	23.5	23.5	24.2	24.2	24.9	24.2	24.9	23.5	24.2
87.5°	12.5	13.2	13.2	12.5	12.5	13.2	13.2	13.2	13.9	12.5	13.2
90°	20.6	20.8	21.1	21.4	21.7	22.0	21.7	21.4	21.1	20.8	20.6
92.5°	24.2	24.3	24.5	24.6	24.8	25.0	24.8	24.6	24.5	24.3	24.2
95°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
97.5°	29.4	29.5	29.6	29.8	29.9	30.1	29.9	29.8	29.6	29.5	29.4
100°	30.1	30.2	30.3	30.5	30.6	30.8	30.6	30.5	30.3	30.2	30.1
102.5°	30.1	30.3	30.6	30.9	31.3	31.6	31.3	30.9	30.6	30.3	30.1
105°	30.8	31.0	31.3	31.6	32.0	32.3	32.0	31.6	31.3	31.0	30.8
107.5°	172.6	161.9	140.5	119.2	97.8	76.4	97.8	119.2	140.5	161.9	172.6
110°	306.9	295.2	271.9	248.6	225.2	201.9	225.2	248.6	271.9	295.2	306.9



TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	384.0	383.8	383.5	383.2	382.9	382.6	382.9	383.2	383.5	383.8	384.0
115°	428.8	429.1	429.8	430.5	431.1	431.8	431.1	430.5	429.8	429.1	428.8
117.5°	470.7	470.8	470.9	471.1	471.2	471.4	471.2	471.1	470.9	470.8	470.7
120°	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5
122.5°	552.2	552.3	552.4	552.6	552.7	552.9	552.7	552.6	552.4	552.3	552.2
125°	588.9	589.1	589.4	589.7	590.1	590.4	590.1	589.7	589.4	589.1	588.9
127.5°	628.5	628.3	628.0	627.7	627.4	627.1	627.4	627.7	628.0	628.3	628.5
130°	663.8	663.6	663.3	663.0	662.6	662.3	662.6	663.0	663.3	663.6	663.8
132.5°	696.8	696.6	696.1	695.6	695.1	694.6	695.1	695.6	696.1	696.6	696.8
135°	729.9	729.7	729.2	728.7	728.2	727.7	728.2	728.7	729.2	729.7	729.9
137.5°	760.7	760.5	760.2	759.9	759.5	759.2	759.5	759.9	760.2	760.5	760.7
140°	788.6	788.4	788.1	787.8	787.4	787.1	787.4	787.8	788.1	788.4	788.6
142.5°	815.0	814.8	814.3	813.8	813.3	812.8	813.3	813.8	814.3	814.8	815.0
145°	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3
147.5°	862.0	861.6	860.8	860.0	859.2	858.4	859.2	860.0	860.8	861.6	862.0
150°	882.6	882.4	881.9	881.4	880.9	880.4	880.9	881.4	881.9	882.4	882.6
152.5°	901.7	901.3	900.5	899.6	898.8	898.0	898.8	899.6	900.5	901.3	901.7
155°	918.6	918.1	917.1	916.2	915.2	914.2	915.2	916.2	917.1	918.1	918.6
157.5°	934.0	933.3	932.0	930.7	929.4	928.1	929.4	930.7	932.0	933.3	934.0
160°	946.5	945.9	944.8	943.6	942.5	941.3	942.5	943.6	944.8	945.9	946.5
162.5°	958.2	957.7	956.7	955.8	954.8	953.8	954.8	955.8	956.7	957.7	958.2
165°	968.5	967.9	966.8	965.7	964.5	963.4	964.5	965.7	966.8	967.9	968.5
167.5°	976.6	975.9	974.6	973.3	972.0	970.7	972.0	973.3	974.6	975.9	976.6
170°	983.2	982.5	981.2	979.9	978.6	977.3	978.6	979.9	981.2	982.5	983.2
172.5°	987.6	986.9	985.4	983.9	982.5	981.0	982.5	983.9	985.4	986.9	987.6
175°	990.5	989.9	988.6	987.3	986.0	984.7	986.0	987.3	988.6	989.9	990.5
177.5°	992.7	991.9	990.3	988.6	987.0	985.4	987.0	988.6	990.3	991.9	992.7
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	810.4	813.3	810.4	804.5	810.4	814.1	817.7	823.6	826.5	826.5	830.9
5°	764.2	770.1	767.9	766.4	772.3	775.9	781.8	789.1	797.2	802.3	808.2
7.5°	723.1	726.8	730.5	730.5	736.3	744.4	753.2	762.0	772.3	779.6	784.0
10°	687.2	690.1	692.3	695.3	704.1	712.9	724.6	735.6	744.4	752.5	759.8
12.5°	652.7	657.1	662.3	664.5	671.1	682.1	693.1	706.3	720.2	728.3	735.6
15°	619.7	621.9	627.8	634.4	640.3	652.0	665.9	679.9	691.6	704.1	710.7
17.5°	586.0	586.7	602.1	598.5	617.5	628.5	635.9	649.1	668.1	678.4	688.7
20°	553.0	560.3	566.9	570.6	580.9	593.3	614.6	624.9	640.3	649.8	658.6
22.5°	527.3	538.3	538.3	547.1	552.2	564.0	579.4	599.2	616.1	622.7	635.1
25°	504.6	509.7	518.5	521.4	531.0	541.2	551.5	572.8	591.1	599.9	608.7
27.5°	475.2	481.8	493.6	493.6	506.0	517.0	529.5	543.4	561.8	574.2	583.8
30°	452.5	459.1	464.2	472.3	477.4	487.7	509.7	520.0	536.1	547.1	558.8
32.5°	431.2	436.4	440.8	449.6	455.4	467.2	478.9	497.2	511.2	521.4	533.9
35°	407.8	412.9	418.8	425.4	434.2	445.2	456.2	471.6	485.5	495.0	505.3
37.5°	385.8	389.4	398.2	402.6	410.0	420.2	434.2	450.3	462.8	470.1	480.4
40°	364.5	367.4	374.0	382.1	387.2	395.3	410.0	423.9	439.3	448.1	456.2
42.5°	341.8	345.4	351.3	359.4	367.4	376.2	384.3	400.4	414.4	421.7	430.5
45°	322.0	324.2	328.6	336.6	344.7	351.3	363.8	378.4	391.6	397.5	407.0
47.5°	298.5	300.7	307.3	311.0	319.8	328.6	341.0	355.7	367.4	373.3	382.1
50°	274.3	276.5	280.9	289.0	294.8	304.4	315.4	327.8	342.5	350.6	355.7
52.5°	250.8	255.2	258.9	265.5	272.8	282.4	292.6	304.4	316.8	324.9	330.8
55°	227.4	231.0	235.4	239.1	247.9	256.7	268.4	279.4	290.4	297.8	304.4
57.5°	201.0	206.1	210.5	217.8	224.4	231.8	245.0	253.8	267.0	272.1	278.0
60°	178.2	183.3	187.0	192.9	198.8	208.3	217.1	228.1	239.1	245.7	253.0
62.5°	159.1	161.3	163.5	169.4	175.3	184.1	192.9	203.9	215.6	219.3	225.2
65°	140.1	142.3	145.9	151.1	155.5	160.6	170.1	178.9	189.9	195.8	198.0
67.5°	123.9	126.1	126.9	130.5	134.2	140.1	145.2	154.0	164.3	167.9	172.3
70°	105.6	109.3	110.0	112.9	114.4	118.1	123.9	130.5	138.6	145.2	148.9
72.5°	84.3	89.5	90.9	95.3	97.5	101.2	105.6	110.7	115.9	118.8	121.7
75°	68.9	70.4	71.1	74.8	78.5	83.6	85.8	88.7	93.1	96.8	99.7
77.5°	57.2	57.9	58.7	58.7	59.4	62.3	66.7	70.4	73.3	74.8	77.0
80°	46.2	45.5	45.5	46.2	46.2	46.2	47.7	52.8	54.3	57.9	57.2
82.5°	35.9	34.5	35.2	34.5	34.5	34.5	34.5	35.2	35.2	37.4	38.9
85°	23.5	24.2	23.5	23.5	22.7	23.5	22.7	22.7	22.0	22.0	21.3
87.5°	12.5	13.2	12.5	12.5	11.7	12.5	11.7	11.7	11.0	11.0	9.5
90°	20.3	19.6	18.9	18.3	17.6	15.5	13.4	11.3	9.2	8.1	7.3
92.5°	23.6	22.5	21.4	20.2	19.1	17.6	16.2	14.7	13.2	12.5	13.0
95°	27.3	26.2	25.1	23.9	22.8	21.0	19.2	17.4	15.6	14.7	18.0
97.5°	28.7	27.4	26.1	24.8	23.5	31.8	40.1	48.4	56.7	60.9	63.2
100°	29.4	28.1	26.8	25.5	24.2	49.7	75.1	100.6	126.1	138.8	137.2
102.5°	32.8	38.2	43.5	48.9	54.3	82.7	111.1	139.5	167.9	182.1	181.0
105°	45.2	74.1	103.0	131.9	160.8	175.5	190.2	204.9	219.6	226.9	226.0
107.5°	185.2	210.3	235.4	260.5	285.6	283.2	280.7	278.3	275.8	274.6	273.9
110°	309.6	315.0	320.4	325.8	331.2	329.4	327.6	325.8	324.0	323.1	322.4

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	383.3	381.8	380.3	378.9	377.4	375.6	373.8	372.0	370.2	369.3	368.7
115°	428.0	426.4	424.7	423.1	421.5	420.0	418.6	417.1	415.6	414.9	414.4
117.5°	470.0	468.7	467.4	466.1	464.8	464.0	463.2	462.3	461.5	461.1	460.5
120°	511.9	510.6	509.3	508.0	506.7	506.2	505.7	505.2	504.7	504.4	503.7
122.5°	551.8	551.0	550.1	549.3	548.5	547.9	547.2	546.6	545.9	545.6	545.0
125°	588.7	588.4	588.1	587.7	587.4	586.8	586.1	585.5	584.8	584.5	583.8
127.5°	628.3	627.8	627.3	626.8	626.3	625.5	624.7	623.9	623.1	622.7	622.0
130°	663.5	662.8	662.1	661.5	660.8	660.2	659.5	658.9	658.2	657.9	657.2
132.5°	696.5	695.8	695.2	694.5	693.9	693.4	692.9	692.4	691.9	691.7	691.0
135°	729.7	729.2	728.7	728.2	727.7	727.0	726.4	725.7	725.0	724.7	724.2
137.5°	760.3	759.5	758.6	757.8	757.0	756.7	756.4	756.1	755.8	755.6	754.9
140°	788.3	787.6	787.0	786.3	785.7	785.2	784.7	784.2	783.7	783.5	783.0
142.5°	814.8	814.3	813.8	813.3	812.8	812.3	811.8	811.3	810.8	810.6	810.1
145°	839.1	838.8	838.5	838.1	837.8	837.5	837.1	836.8	836.5	836.3	835.7
147.5°	861.8	861.5	861.2	860.9	860.6	860.3	859.9	859.6	859.3	859.1	858.7
150°	882.4	882.1	881.8	881.4	881.1	880.8	880.5	880.2	879.9	879.7	879.5
152.5°	901.4	900.7	900.1	899.4	898.8	898.6	898.4	898.3	898.1	898.0	897.9
155°	918.2	917.4	916.5	915.7	914.9	914.7	914.6	914.4	914.3	914.2	914.4
157.5°	933.5	932.5	931.6	930.6	929.6	929.8	929.9	930.1	930.2	930.3	930.3
160°	946.0	945.0	944.1	943.1	942.1	942.3	942.4	942.6	942.7	942.8	942.9
162.5°	957.6	956.5	955.4	954.2	953.1	953.3	953.4	953.6	953.7	953.8	954.0
165°	967.8	966.5	965.2	963.9	962.6	962.8	963.0	963.1	963.3	963.4	963.6
167.5°	975.9	974.6	973.3	972.0	970.7	970.7	970.7	970.7	970.7	970.7	971.0
170°	982.5	981.2	979.9	978.6	977.3	977.3	977.3	977.3	977.3	977.3	977.6
172.5°	986.9	985.6	984.3	983.0	981.7	981.5	981.4	981.2	981.1	981.0	981.4
175°	989.9	988.8	987.7	986.5	985.4	985.2	985.1	984.9	984.8	984.7	985.1
177.5°	992.1	990.8	989.5	988.2	986.9	986.7	986.5	986.4	986.2	986.1	986.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	856.6	856.6	856.6	856.6
2.5°	834.6	839.7	850.0	858.8
5°	817.0	825.1	840.5	855.9
7.5°	795.7	808.2	828.0	849.3
10°	775.2	791.3	815.5	840.5
12.5°	754.7	771.5	797.2	829.5
15°	730.5	748.1	778.9	817.7
17.5°	709.2	732.7	760.5	799.4
20°	686.5	704.1	740.0	781.1
22.5°	657.9	687.2	720.9	764.2
25°	635.1	660.8	694.5	743.7
27.5°	607.3	637.3	678.4	721.7
30°	584.5	609.5	647.6	699.7
32.5°	558.1	587.5	627.1	678.4
35°	534.6	559.6	597.0	649.1
37.5°	506.8	533.9	575.7	621.9
40°	482.6	509.0	548.6	591.9
42.5°	453.2	481.1	520.7	557.4
45°	429.8	455.4	487.0	520.7
47.5°	401.2	428.3	459.1	482.6
50°	375.5	400.4	424.6	444.4
52.5°	347.6	370.4	392.4	407.0
55°	322.0	339.6	357.2	367.4
57.5°	291.9	308.8	323.4	329.3
60°	265.5	279.4	289.0	295.6
62.5°	237.6	247.9	255.2	258.9
65°	210.5	217.8	221.5	225.2
67.5°	182.6	189.2	191.4	195.8
70°	153.3	160.6	162.1	164.3
72.5°	131.3	131.3	134.2	137.1
75°	104.9	106.3	107.8	107.8
77.5°	82.1	82.1	83.6	84.3
80°	60.1	60.9	60.9	60.1
82.5°	41.1	42.5	41.1	40.3
85°	22.7	25.7	24.2	24.2
87.5°	9.5	9.5	11.0	9.5
90°	5.6	4.0	2.3	0.7
92.5°	14.0	14.9	15.9	16.9
95°	24.7	31.4	38.1	44.8
97.5°	67.8	72.3	76.9	81.5
100°	133.9	130.6	127.4	124.1
102.5°	178.9	176.8	174.7	172.6
105°	224.2	222.4	220.6	218.8
107.5°	272.4	270.9	269.5	268.0
110°	321.1	319.8	318.5	317.2

TEST NUMBER: P1010963

CATALOG NUMBER: S123RDIP-B560D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	367.6	366.5	365.3	364.2
115°	413.4	412.5	411.5	410.5
117.5°	459.4	458.3	457.1	456.0
120°	502.2	500.7	499.3	497.8
122.5°	543.9	542.7	541.6	540.4
125°	582.5	581.2	579.9	578.6
127.5°	620.7	619.4	618.1	616.8
130°	655.9	654.6	653.3	652.0
132.5°	689.7	688.4	687.1	685.8
135°	723.2	722.3	721.3	720.3
137.5°	753.6	752.3	751.0	749.7
140°	782.0	781.1	780.1	779.1
142.5°	809.1	808.2	807.2	806.2
145°	834.6	833.5	832.3	831.2
147.5°	857.9	857.0	856.2	855.4
150°	879.0	878.5	878.0	877.5
152.5°	897.8	897.6	897.5	897.3
155°	914.7	915.0	915.3	915.6
157.5°	930.3	930.3	930.3	930.3
160°	943.0	943.2	943.3	943.5
162.5°	954.5	955.0	955.5	956.0
165°	964.1	964.6	965.1	965.6
167.5°	971.7	972.4	973.0	973.7
170°	978.3	979.0	979.6	980.3
172.5°	982.2	983.1	983.9	984.7
175°	985.9	986.7	987.5	988.3
177.5°	987.3	988.2	989.0	989.8
180°	988.3	988.3	988.3	988.3

(END OF REPORT)