

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: P1010942

Luminaire Tested: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010942
REPORT IS A COMBINATION OF REPORTS P993408 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

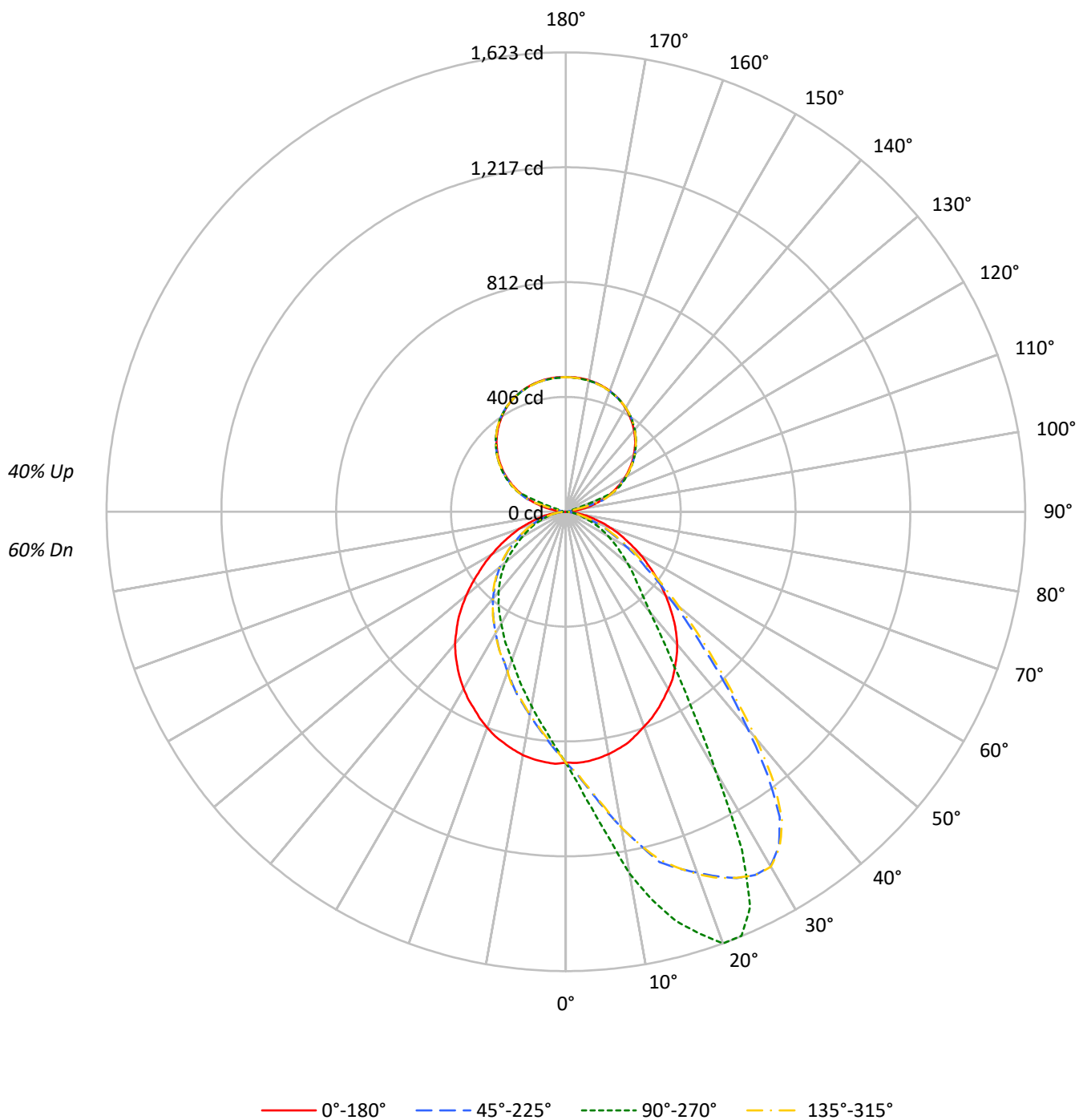
Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9536	9536	9536	9536
5°	9544	10983	9567	8148
10°	9459	13257	9500	7117
15°	9361	15047	9361	6275
20°	9170	16230	9221	5566
25°	9029	15420	9011	5079
30°	8866	10684	8847	4603
35°	8669	6859	8629	4244
40°	8424	4844	8383	3886
45°	7997	3876	7987	3538
50°	7474	3243	7449	3131
55°	6885	2673	6831	2654
60°	6308	2209	6244	2257
65°	5630	1767	5666	1914
70°	5003	1228	5139	1547
75°	4241	911	4413	1190
80°	3377	605	3665	891
85°	2401	286	2622	554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 12731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.4
10°-20°	272.3	7.4
20°-30°	428.9	11.7
30°-40°	446.0	12.2
40°-50°	381.6	10.4
50°-60°	290.9	8.0
60°-70°	186.4	5.1
70°-80°	89.3	2.4
80°-90°	24.4	0.7
90°-100°	16.8	0.5
100°-110°	81.1	2.2
110°-120°	198.7	5.4
120°-130°	252.3	6.9
130°-140°	269.5	7.4
140°-150°	252.0	6.9
150°-160°	203.3	5.6
160°-170°	131.2	3.6
170°-180°	45.2	1.2
0°-30°	788.3	21.6
0°-40°	1234.3	33.8
0°-60°	1906.8	52.1
0°-90°	2207.0	60.3
90°-120°	296.6	8.1
90°-150°	1070.4	29.3
90°-180°	1450.0	39.6
0°-180°	3657.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	886	886	886	886	886	
5°	885	1052	887	780	885	84
15°	846	1495	846	624	846	238
25°	769	1540	768	507	769	354
35°	671	668	668	413	671	420
45°	538	356	538	325	538	415
55°	380	224	377	222	380	341
65°	233	129	234	140	233	233
75°	112	55	116	71	112	120
85°	25	13	27	25	25	28
90°	0	11	0	11	0	3
95°	22	13	22	13	22	26
105°	105	16	105	16	105	112
115°	198	208	198	208	198	195
125°	278	284	278	284	278	249
135°	347	350	347	350	347	267
145°	400	404	400	404	400	250
155°	441	440	441	440	441	203
165°	465	464	465	464	465	131
175°	476	474	476	474	476	45
180°	476	476	476	476	476	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	888.2	894.3	898.8	901.9	909.4	914.0	917.8	924.6	924.6	926.1	929.2
5°	885.2	898.1	907.2	919.3	935.2	942.8	953.4	962.5	975.4	982.3	989.1
7.5°	878.3	896.5	915.5	933.7	957.2	972.4	983.0	1006.5	1023.2	1043.7	1059.6
10°	869.2	894.3	918.5	946.6	978.5	1001.2	1017.1	1048.2	1080.1	1108.9	1133.2
12.5°	857.9	888.2	923.1	957.2	1002.0	1024.7	1050.5	1089.2	1134.7	1171.1	1203.7
15°	845.7	880.6	920.1	961.8	1017.9	1049.8	1086.9	1134.0	1184.8	1237.1	1281.9
17.5°	826.8	870.8	914.7	975.4	1041.4	1060.4	1092.2	1156.7	1219.7	1266.7	1321.3
20°	807.8	857.1	912.5	967.1	1038.4	1082.4	1112.0	1180.2	1247.7	1304.6	1357.0
22.5°	790.4	841.9	899.6	968.6	1035.3	1079.3	1116.5	1187.8	1265.9	1329.6	1394.1
25°	769.1	825.2	889.0	954.2	1035.3	1068.7	1109.7	1192.4	1275.0	1348.6	1428.2
27.5°	746.4	803.2	866.2	933.0	1007.3	1056.6	1096.8	1185.5	1286.4	1365.3	1447.2
30°	723.6	782.0	842.7	902.6	986.0	1033.1	1079.3	1177.2	1292.5	1382.7	1445.7
32.5°	701.6	750.9	810.8	869.2	951.9	1003.5	1055.8	1168.8	1294.8	1370.6	1400.9
35°	671.3	722.8	771.4	833.6	917.0	967.8	1029.3	1168.1	1284.9	1331.9	1316.8
37.5°	643.2	686.4	732.7	788.1	873.8	939.8	1003.5	1148.4	1252.3	1255.3	1169.6
40°	612.1	647.8	686.4	744.8	837.4	902.6	971.6	1118.0	1193.1	1148.4	997.4
42.5°	576.5	608.3	638.7	695.5	796.4	869.2	943.6	1080.1	1107.4	1004.2	847.2
45°	538.5	564.3	592.4	652.3	753.2	825.2	899.6	1021.7	993.6	848.0	698.6
47.5°	499.1	521.1	548.4	603.0	706.9	780.5	851.0	938.3	867.0	710.7	585.6
50°	459.6	477.1	503.6	559.8	659.9	726.6	791.9	848.8	748.6	609.8	483.9
52.5°	421.0	434.6	461.9	509.7	606.8	670.5	717.5	739.5	637.9	503.6	420.2
55°	380.0	395.2	413.4	461.9	558.3	605.3	636.4	635.6	530.9	427.0	347.4
57.5°	340.6	354.2	370.1	418.7	496.8	528.7	555.2	542.3	443.0	349.7	298.1
60°	305.7	313.3	330.7	371.7	430.8	458.1	473.3	451.3	361.8	295.1	246.5
62.5°	267.7	275.3	289.7	328.4	364.8	379.2	392.1	364.1	298.8	240.4	210.9
65°	232.9	242.7	251.8	282.9	302.6	320.1	318.6	295.1	233.6	195.7	171.4
67.5°	202.5	206.3	213.9	232.9	242.0	254.9	255.6	229.1	188.1	159.3	144.9
70°	169.9	173.7	179.0	188.1	194.2	197.2	195.7	172.2	141.8	124.4	111.5
72.5°	141.8	141.1	144.9	144.9	150.9	150.2	145.6	127.4	107.7	93.3	85.7
75°	111.5	112.3	113.0	111.5	109.2	106.2	102.4	88.7	75.8	69.0	62.2
77.5°	87.2	85.7	86.5	81.2	78.1	75.1	69.8	63.0	52.3	50.8	47.8
80°	62.2	61.4	60.7	58.4	51.6	48.5	44.8	41.0	38.7	37.2	36.4
82.5°	41.7	41.7	40.2	35.6	31.9	29.6	28.8	27.3	25.0	25.0	24.3
85°	25.0	24.3	22.8	18.2	15.9	15.9	15.9	15.9	14.4	14.4	13.7
87.5°	9.9	9.1	6.8	6.8	6.1	6.1	6.1	5.3	5.3	4.6	4.6
90°	0.4	1.2	2.0	2.7	3.5	3.9	4.4	5.4	6.5	7.5	8.5
92.5°	8.1	7.6	7.2	6.7	6.2	6.0	6.4	7.1	7.8	8.5	9.2
95°	21.6	18.4	15.2	11.9	8.7	7.1	7.5	8.4	9.3	10.1	11.0
97.5°	39.2	37.0	34.8	32.6	30.4	29.3	27.3	23.3	19.3	15.3	11.3
100°	59.7	61.3	62.9	64.4	66.0	66.8	60.7	48.4	36.2	23.9	11.7
102.5°	83.0	84.0	85.0	86.1	87.1	87.6	80.8	67.1	53.4	39.8	26.1
105°	105.3	106.2	107.0	107.9	108.8	109.2	105.7	98.6	91.5	84.5	77.4
107.5°	129.0	129.7	130.4	131.1	131.8	132.2	132.8	134.0	135.1	136.3	137.5
110°	152.7	153.3	153.9	154.6	155.2	155.5	155.9	156.8	157.7	158.5	159.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	175.3	175.8	176.4	176.9	177.4	177.7	178.1	179.0	179.9	180.7	181.6
115°	197.5	198.0	198.5	199.0	199.5	199.7	200.0	200.7	201.4	202.1	202.8
117.5°	219.4	220.0	220.5	221.1	221.6	221.9	222.1	222.5	222.9	223.3	223.7
120°	239.6	240.3	241.0	241.7	242.4	242.8	242.9	243.1	243.4	243.6	243.8
122.5°	260.1	260.7	261.2	261.8	262.3	262.6	262.8	263.1	263.4	263.7	264.0
125°	278.5	279.1	279.7	280.4	281.0	281.3	281.5	281.8	282.1	282.4	282.7
127.5°	296.8	297.4	298.1	298.7	299.4	299.7	299.9	300.3	300.6	301.0	301.4
130°	313.8	314.4	315.0	315.7	316.3	316.6	316.8	317.1	317.4	317.7	318.0
132.5°	330.1	330.7	331.3	332.0	332.6	332.9	333.0	333.2	333.5	333.7	333.9
135°	346.7	347.2	347.6	348.1	348.6	348.8	349.0	349.3	349.6	349.9	350.2
137.5°	360.8	361.4	362.0	362.7	363.3	363.6	363.7	363.8	364.0	364.1	364.3
140°	374.9	375.4	375.9	376.4	376.9	377.1	377.2	377.4	377.7	377.9	378.1
142.5°	388.0	388.5	388.9	389.4	389.9	390.1	390.2	390.5	390.7	391.0	391.2
145°	400.0	400.6	401.1	401.7	402.2	402.5	402.6	402.7	402.9	403.0	403.2
147.5°	411.7	412.1	412.5	412.9	413.3	413.5	413.6	413.7	413.9	414.0	414.2
150°	422.3	422.5	422.7	423.0	423.2	423.3	423.4	423.6	423.7	423.9	424.1
152.5°	431.8	431.9	432.0	432.1	432.2	432.2	432.2	432.3	432.4	432.4	432.5
155°	440.7	440.5	440.4	440.2	440.1	440.0	440.0	440.1	440.2	440.2	440.3
157.5°	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.6	447.5	447.5	447.4
160°	454.1	454.0	453.9	453.8	453.7	453.7	453.7	453.6	453.5	453.5	453.4
162.5°	460.1	459.9	459.6	459.4	459.1	459.0	459.0	458.9	458.8	458.8	458.7
165°	464.7	464.5	464.2	464.0	463.7	463.6	463.6	463.5	463.4	463.4	463.3
167.5°	468.6	468.3	468.0	467.7	467.4	467.2	467.2	467.2	467.2	467.2	467.2
170°	471.8	471.5	471.1	470.8	470.5	470.3	470.3	470.3	470.3	470.3	470.3
172.5°	473.9	473.5	473.1	472.7	472.3	472.1	472.1	472.2	472.3	472.4	472.5
175°	475.6	475.2	474.8	474.5	474.1	473.9	473.9	474.0	474.1	474.1	474.2
177.5°	476.4	476.0	475.6	475.2	474.8	474.6	474.6	474.7	474.8	474.8	474.9
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	935.2	935.2	942.1	948.9	945.1	947.4	955.7	952.7	958.7	958.0	960.3
5°	1005.8	1014.1	1020.9	1035.3	1037.6	1035.3	1049.8	1053.6	1060.4	1052.0	1055.8
7.5°	1085.4	1102.9	1119.5	1140.8	1147.6	1149.1	1156.7	1167.3	1176.4	1159.7	1168.1
10°	1162.8	1189.3	1223.5	1242.4	1259.1	1265.2	1271.2	1278.1	1288.7	1298.5	1291.0
12.5°	1246.2	1284.9	1317.5	1351.6	1372.1	1369.8	1387.3	1391.8	1400.2	1402.5	1405.5
15°	1314.5	1369.1	1389.6	1440.4	1444.9	1460.1	1479.8	1497.3	1499.5	1495.0	1495.0
17.5°	1379.7	1426.7	1463.1	1504.1	1512.4	1525.3	1550.4	1558.7	1561.7	1561.0	1561.0
20°	1432.8	1463.9	1525.3	1559.5	1573.1	1589.8	1607.3	1617.9	1620.1	1623.2	1618.6
22.5°	1467.7	1514.7	1564.8	1592.8	1604.2	1610.3	1621.7	1624.7	1620.9	1621.7	1622.4
25°	1495.0	1541.3	1571.6	1579.2	1578.4	1570.8	1562.5	1548.1	1546.6	1540.5	1528.4
27.5°	1502.6	1520.0	1516.2	1485.1	1454.0	1451.0	1400.9	1373.6	1342.5	1347.1	1329.6
30°	1461.6	1438.9	1385.0	1306.1	1273.5	1220.4	1164.3	1105.9	1083.1	1058.1	1104.4
32.5°	1361.5	1280.3	1184.8	1082.4	1027.8	980.7	920.8	878.3	854.1	833.6	873.0
35°	1210.6	1083.9	957.2	860.1	815.4	772.9	716.8	695.5	665.2	668.2	672.0
37.5°	1016.4	876.8	781.3	685.7	656.1	638.7	597.7	565.1	554.5	551.4	551.4
40°	834.3	719.8	634.9	559.8	537.0	522.6	490.0	474.8	463.4	460.4	464.2
42.5°	690.2	592.4	526.4	476.3	460.4	442.2	428.6	409.6	407.3	402.0	408.8
45°	579.5	494.5	445.2	408.8	395.2	388.4	373.2	361.8	357.3	356.5	361.8
47.5°	491.5	425.5	382.3	359.5	348.9	342.1	329.2	324.6	320.1	321.6	319.3
50°	412.6	363.3	335.3	314.8	307.9	301.1	292.8	288.2	286.0	286.0	285.2
52.5°	354.2	313.3	295.1	276.1	273.1	269.3	260.2	257.1	253.3	252.6	255.6
55°	303.4	275.3	257.1	245.8	242.7	235.1	231.3	227.5	225.3	223.8	224.5
57.5°	259.4	238.2	226.0	216.2	210.9	207.8	201.0	200.2	198.7	198.7	198.0
60°	223.0	207.8	193.4	187.3	183.6	179.8	179.0	174.5	172.2	173.7	172.9
62.5°	188.9	176.7	168.4	161.6	159.3	156.3	154.0	152.5	150.2	150.9	150.9
65°	157.8	147.9	141.8	135.8	135.0	132.0	131.2	129.7	129.7	128.9	130.5
67.5°	129.7	122.9	117.6	113.8	111.5	112.3	109.2	106.9	106.9	106.2	108.5
70°	103.2	99.4	94.1	89.5	86.5	86.5	82.7	81.9	81.9	81.9	81.2
72.5°	79.6	72.8	70.5	69.0	69.0	69.0	67.5	67.5	66.7	67.5	66.7
75°	59.2	58.4	56.9	56.1	56.1	55.4	54.6	54.6	54.6	54.6	54.6
77.5°	46.3	46.3	44.8	44.0	44.0	44.0	43.2	43.2	42.5	42.5	42.5
80°	34.1	34.1	32.6	32.6	32.6	31.9	31.9	31.9	32.6	31.9	31.9
82.5°	23.5	23.5	22.8	23.5	22.8	22.0	22.0	22.0	21.2	22.0	22.0
85°	13.7	13.7	12.9	12.1	12.9	12.9	12.1	12.9	12.1	12.9	12.1
87.5°	5.3	4.6	4.6	4.6	3.8	4.6	3.8	3.8	4.6	3.8	4.6
90°	8.8	9.1	9.4	9.7	9.9	10.0	10.1	10.3	10.4	10.6	10.4
92.5°	9.8	10.3	10.9	11.4	11.7	11.7	11.8	11.9	11.9	12.0	11.9
95°	11.5	12.1	12.6	13.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	11.9	12.5	13.2	13.8	14.1	14.1	14.2	14.3	14.4	14.5	14.4
100°	12.3	12.9	13.6	14.2	14.5	14.5	14.6	14.7	14.7	14.8	14.7
102.5°	23.5	20.9	18.4	15.8	14.5	14.6	14.7	14.9	15.0	15.2	15.0
105°	63.5	49.6	35.7	21.8	14.8	14.9	15.0	15.2	15.3	15.5	15.3
107.5°	125.4	113.3	101.2	89.1	83.0	77.9	67.6	57.3	47.1	36.8	47.1
110°	156.8	154.2	151.6	149.0	147.7	142.1	130.9	119.6	108.4	97.2	108.4

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	182.3	183.0	183.7	184.4	184.8	184.7	184.6	184.4	184.3	184.1	184.3
115°	203.6	204.4	205.2	206.0	206.4	206.6	206.9	207.2	207.5	207.8	207.5
117.5°	224.3	224.9	225.6	226.2	226.5	226.5	226.6	226.7	226.8	226.9	226.8
120°	244.4	245.1	245.7	246.4	246.7	246.7	246.7	246.7	246.7	246.7	246.7
122.5°	264.4	264.8	265.1	265.5	265.7	265.7	265.8	265.9	266.0	266.1	266.0
125°	282.9	283.0	283.2	283.3	283.4	283.5	283.6	283.8	283.9	284.1	283.9
127.5°	301.6	301.9	302.1	302.4	302.5	302.4	302.3	302.1	302.0	301.8	302.0
130°	318.3	318.7	319.0	319.3	319.5	319.4	319.2	319.1	318.9	318.7	318.9
132.5°	334.2	334.6	334.9	335.2	335.4	335.3	335.0	334.8	334.5	334.3	334.5
135°	350.4	350.7	350.9	351.2	351.3	351.2	350.9	350.7	350.4	350.2	350.4
137.5°	364.7	365.1	365.5	365.9	366.1	366.0	365.9	365.7	365.6	365.4	365.6
140°	378.4	378.7	379.0	379.3	379.5	379.4	379.3	379.1	379.0	378.8	379.0
142.5°	391.4	391.6	391.9	392.1	392.2	392.1	391.9	391.6	391.4	391.2	391.4
145°	403.4	403.5	403.7	403.8	403.9	403.9	403.9	403.9	403.9	403.9	403.9
147.5°	414.4	414.5	414.7	414.8	414.9	414.7	414.3	413.9	413.5	413.1	413.5
150°	424.3	424.4	424.6	424.7	424.8	424.7	424.4	424.2	423.9	423.7	423.9
152.5°	432.8	433.1	433.4	433.7	433.9	433.7	433.3	433.0	432.6	432.2	432.6
155°	440.7	441.1	441.5	441.9	442.1	441.9	441.4	440.9	440.5	440.0	440.5
157.5°	447.9	448.3	448.8	449.3	449.5	449.2	448.6	447.9	447.3	446.7	447.3
160°	453.9	454.3	454.8	455.3	455.5	455.2	454.7	454.1	453.6	453.0	453.6
162.5°	459.3	459.8	460.4	460.9	461.2	461.0	460.5	460.0	459.5	459.0	459.5
165°	463.9	464.5	465.2	465.8	466.1	465.8	465.3	464.7	464.2	463.6	464.2
167.5°	467.8	468.4	469.1	469.7	470.0	469.7	469.1	468.4	467.8	467.2	467.8
170°	470.9	471.6	472.2	472.9	473.2	472.9	472.2	471.6	470.9	470.3	470.9
172.5°	473.1	473.7	474.4	475.0	475.3	474.9	474.2	473.5	472.8	472.1	472.8
175°	474.8	475.3	475.9	476.4	476.7	476.4	475.8	475.1	474.5	473.9	474.5
177.5°	475.5	476.2	476.8	477.5	477.8	477.4	476.6	475.8	475.0	474.2	475.0
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	956.5	951.9	948.9	946.6	944.3	951.2	942.1	932.2	925.4	920.8	919.3
5°	1056.6	1046.7	1038.4	1031.6	1033.1	1033.1	1017.1	999.7	984.5	976.2	967.1
7.5°	1172.6	1162.0	1145.3	1141.5	1138.5	1119.5	1103.6	1071.8	1052.8	1033.8	1017.1
10°	1287.9	1274.3	1258.3	1253.0	1245.5	1221.9	1197.7	1156.7	1133.2	1098.3	1076.3
12.5°	1395.6	1378.9	1363.0	1359.2	1347.8	1327.4	1285.7	1243.2	1203.0	1165.8	1127.1
15°	1485.9	1481.3	1457.1	1441.9	1416.9	1388.8	1379.7	1322.1	1271.2	1232.6	1162.8
17.5°	1561.7	1540.5	1517.8	1507.9	1498.0	1465.4	1432.8	1373.6	1319.0	1262.1	1217.4
20°	1622.4	1598.9	1583.0	1568.6	1564.0	1526.9	1475.3	1422.9	1363.0	1299.3	1240.9
22.5°	1625.5	1622.4	1611.8	1603.5	1594.4	1570.1	1529.1	1463.9	1400.2	1330.4	1253.8
25°	1562.5	1558.0	1588.3	1580.7	1586.8	1577.7	1555.7	1501.1	1426.7	1344.8	1267.4
27.5°	1372.9	1419.1	1466.9	1483.6	1495.0	1527.6	1538.2	1507.9	1448.0	1360.7	1274.3
30°	1115.0	1176.4	1253.8	1295.5	1327.4	1388.0	1466.9	1476.8	1448.7	1378.9	1272.8
32.5°	875.3	931.4	993.6	1042.9	1085.4	1209.8	1316.0	1392.6	1406.3	1369.8	1276.5
35°	705.4	729.7	788.8	835.9	893.5	999.7	1124.9	1248.5	1331.9	1336.5	1265.2
37.5°	581.8	594.7	646.2	672.8	706.9	800.2	917.0	1078.6	1208.3	1269.7	1233.3
40°	481.6	511.2	540.8	556.0	580.2	644.7	757.0	883.6	1044.4	1158.2	1184.0
42.5°	417.9	430.8	449.8	471.0	486.2	542.3	617.4	733.5	878.3	1036.9	1108.2
45°	368.6	373.2	392.9	406.6	422.5	461.9	515.0	612.1	739.5	895.8	1017.1
47.5°	327.7	336.8	347.4	355.7	366.4	396.7	442.2	512.7	625.0	764.6	895.0
50°	291.3	296.6	310.2	314.0	321.6	342.8	377.7	431.6	524.1	635.6	770.6
52.5°	257.1	267.0	272.3	277.6	284.4	301.9	324.6	368.6	438.4	543.1	657.6
55°	230.6	233.6	241.2	245.8	251.1	263.2	282.9	315.5	370.1	453.6	562.0
57.5°	204.8	204.8	212.4	216.2	221.5	230.6	248.0	273.1	312.5	374.7	474.1
60°	177.5	178.2	184.3	188.9	190.4	199.5	213.9	233.6	264.0	309.5	390.6
62.5°	153.2	157.0	160.0	161.6	166.9	172.2	184.3	198.0	219.2	259.4	317.1
65°	132.7	133.5	135.8	137.3	139.6	145.6	154.7	163.8	182.0	211.6	258.6
67.5°	109.2	112.3	115.3	115.3	117.6	120.6	129.7	137.3	150.9	168.4	200.2
70°	81.9	83.4	88.0	90.3	93.3	98.6	103.2	107.7	118.3	131.2	155.5
72.5°	68.3	68.3	69.8	70.5	70.5	74.3	81.2	85.7	91.0	100.1	116.8
75°	54.6	54.6	56.9	56.1	57.6	59.2	59.9	63.0	66.0	72.8	82.7
77.5°	43.2	44.0	44.0	44.8	44.8	45.5	46.3	47.8	49.3	53.1	57.6
80°	31.9	32.6	32.6	33.4	33.4	34.1	34.9	35.6	37.2	38.7	41.0
82.5°	22.0	22.8	22.8	23.5	22.8	23.5	24.3	24.3	25.0	26.5	27.3
85°	12.9	12.9	13.7	12.9	12.9	12.9	13.7	13.7	14.4	16.7	16.7
87.5°	3.8	4.6	3.8	4.6	4.6	4.6	4.6	5.3	5.3	6.1	6.8
90°	10.3	10.1	10.0	9.9	9.7	9.4	9.1	8.8	8.5	7.5	6.5
92.5°	11.9	11.8	11.7	11.7	11.4	10.9	10.3	9.8	9.2	8.5	7.8
95°	13.4	13.4	13.4	13.4	13.1	12.6	12.1	11.5	11.0	10.1	9.3
97.5°	14.3	14.2	14.1	14.1	13.8	13.2	12.5	11.9	11.3	15.3	19.3
100°	14.7	14.6	14.5	14.5	14.2	13.6	12.9	12.3	11.7	23.9	36.2
102.5°	14.9	14.7	14.6	14.5	15.8	18.4	20.9	23.5	26.1	39.8	53.4
105°	15.2	15.0	14.9	14.8	21.8	35.7	49.6	63.5	77.4	84.5	91.5
107.5°	57.3	67.6	77.9	83.0	89.1	101.2	113.3	125.4	137.5	136.3	135.1
110°	119.6	130.9	142.1	147.7	149.0	151.6	154.2	156.8	159.4	158.5	157.7

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	184.4	184.6	184.7	184.8	184.4	183.7	183.0	182.3	181.6	180.7	179.9
115°	207.2	206.9	206.6	206.4	206.0	205.2	204.4	203.6	202.8	202.1	201.4
117.5°	226.7	226.6	226.5	226.5	226.2	225.6	224.9	224.3	223.7	223.3	222.9
120°	246.7	246.7	246.7	246.7	246.4	245.7	245.1	244.4	243.8	243.6	243.4
122.5°	265.9	265.8	265.7	265.7	265.5	265.1	264.8	264.4	264.0	263.7	263.4
125°	283.8	283.6	283.5	283.4	283.3	283.2	283.0	282.9	282.7	282.4	282.1
127.5°	302.1	302.3	302.4	302.5	302.4	302.1	301.9	301.6	301.4	301.0	300.6
130°	319.1	319.2	319.4	319.5	319.3	319.0	318.7	318.3	318.0	317.7	317.4
132.5°	334.8	335.0	335.3	335.4	335.2	334.9	334.6	334.2	333.9	333.7	333.5
135°	350.7	350.9	351.2	351.3	351.2	350.9	350.7	350.4	350.2	349.9	349.6
137.5°	365.7	365.9	366.0	366.1	365.9	365.5	365.1	364.7	364.3	364.1	364.0
140°	379.1	379.3	379.4	379.5	379.3	379.0	378.7	378.4	378.1	377.9	377.7
142.5°	391.6	391.9	392.1	392.2	392.1	391.9	391.6	391.4	391.2	391.0	390.7
145°	403.9	403.9	403.9	403.9	403.8	403.7	403.5	403.4	403.2	403.0	402.9
147.5°	413.9	414.3	414.7	414.9	414.8	414.7	414.5	414.4	414.2	414.0	413.9
150°	424.2	424.4	424.7	424.8	424.7	424.6	424.4	424.3	424.1	423.9	423.7
152.5°	433.0	433.3	433.7	433.9	433.7	433.4	433.1	432.8	432.5	432.4	432.4
155°	440.9	441.4	441.9	442.1	441.9	441.5	441.1	440.7	440.3	440.2	440.2
157.5°	447.9	448.6	449.2	449.5	449.3	448.8	448.3	447.9	447.4	447.5	447.5
160°	454.1	454.7	455.2	455.5	455.3	454.8	454.3	453.9	453.4	453.5	453.5
162.5°	460.0	460.5	461.0	461.2	460.9	460.4	459.8	459.3	458.7	458.8	458.8
165°	464.7	465.3	465.8	466.1	465.8	465.2	464.5	463.9	463.3	463.4	463.4
167.5°	468.4	469.1	469.7	470.0	469.7	469.1	468.4	467.8	467.2	467.2	467.2
170°	471.6	472.2	472.9	473.2	472.9	472.2	471.6	470.9	470.3	470.3	470.3
172.5°	473.5	474.2	474.9	475.3	475.0	474.4	473.7	473.1	472.5	472.4	472.3
175°	475.1	475.8	476.4	476.7	476.4	475.9	475.3	474.8	474.2	474.1	474.1
177.5°	475.8	476.6	477.4	477.8	477.5	476.8	476.2	475.5	474.9	474.8	474.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	917.0	913.2	909.4	909.4	901.1	893.5	889.7	891.2	886.7	880.6	874.5
5°	957.2	942.1	939.0	930.7	919.3	903.4	895.0	887.4	878.3	866.2	854.8
7.5°	994.4	974.7	964.0	955.7	933.7	911.7	893.5	881.4	865.4	847.2	833.6
10°	1042.9	1006.5	995.1	976.2	945.1	914.0	892.8	873.0	851.0	829.8	811.6
12.5°	1081.6	1039.9	1018.7	999.7	959.5	920.1	884.4	860.1	833.6	810.1	786.6
15°	1125.6	1078.6	1041.4	1018.7	967.8	920.1	879.9	845.7	816.1	787.3	766.8
17.5°	1146.8	1087.7	1071.0	1038.4	964.8	917.0	867.7	831.3	795.7	762.3	738.0
20°	1180.2	1111.2	1069.5	1047.5	982.3	911.7	854.1	812.3	775.2	739.5	713.7
22.5°	1182.5	1107.4	1080.1	1038.4	958.0	895.8	841.9	791.1	747.9	714.5	688.0
25°	1177.2	1100.6	1062.7	1029.3	962.5	886.7	817.7	767.6	725.1	686.4	655.3
27.5°	1174.9	1080.9	1045.2	1011.8	936.7	860.1	803.2	746.4	697.8	663.7	631.8
30°	1171.9	1059.6	1016.4	977.7	908.7	839.7	771.4	722.1	675.8	632.6	600.7
32.5°	1152.2	1030.8	986.8	945.8	871.5	802.5	748.6	696.3	646.2	606.0	577.2
35°	1146.1	1004.2	946.6	902.6	829.8	768.4	711.5	668.2	621.2	581.0	546.9
37.5°	1128.6	976.9	914.7	858.6	782.8	724.4	682.6	639.4	593.9	550.7	523.4
40°	1098.3	945.1	874.5	816.9	738.8	679.6	640.9	609.1	564.3	525.6	492.3
42.5°	1053.6	912.5	836.6	775.9	689.5	634.1	602.2	571.9	534.0	493.8	466.5
45°	1002.0	869.2	798.7	731.2	643.2	589.4	556.0	537.8	502.9	468.8	436.9
47.5°	931.4	824.5	754.7	684.9	595.4	543.1	516.5	498.3	474.1	436.9	411.1
50°	842.7	766.8	700.9	638.7	548.4	498.3	471.8	458.1	437.7	411.1	386.1
52.5°	744.1	700.1	645.5	587.8	500.6	453.6	429.3	418.7	403.5	378.5	357.3
55°	644.7	625.8	588.6	531.7	450.5	411.9	390.6	377.0	365.6	347.4	329.2
57.5°	556.0	546.9	521.1	477.1	408.8	368.6	350.4	341.3	332.2	318.6	300.4
60°	464.2	474.1	447.5	425.5	363.3	328.4	312.5	302.6	298.1	286.0	274.6
62.5°	384.6	393.7	378.5	361.8	317.8	286.7	276.9	267.7	264.7	254.1	242.7
65°	312.5	323.9	312.5	303.4	276.9	251.1	238.9	234.4	231.3	224.5	215.4
67.5°	248.8	260.2	254.9	243.5	235.1	213.9	207.1	202.5	201.0	195.7	188.1
70°	187.3	203.3	204.8	198.0	190.4	180.5	176.0	174.5	170.7	166.1	161.6
72.5°	135.0	153.2	154.0	154.0	149.4	149.4	144.9	142.6	142.6	138.0	132.7
75°	99.4	111.5	113.0	114.5	116.8	119.1	116.0	116.0	115.3	110.7	108.5
77.5°	66.0	76.6	80.4	85.7	88.7	88.7	90.3	91.8	90.3	88.0	86.5
80°	42.5	50.1	54.6	57.6	62.2	64.5	66.7	67.5	66.0	65.2	63.0
82.5°	28.1	30.3	32.6	36.4	41.7	45.5	45.5	44.8	46.3	45.5	44.8
85°	15.9	17.4	18.2	19.0	22.0	25.8	26.5	27.3	28.8	27.3	25.8
87.5°	6.1	6.8	6.8	6.8	8.3	9.1	11.4	14.4	13.7	12.1	12.1
90°	5.4	4.4	3.9	3.5	2.7	2.0	1.2	0.4	1.2	2.0	2.7
92.5°	7.1	6.4	6.0	6.2	6.7	7.2	7.6	8.1	7.6	7.2	6.7
95°	8.4	7.5	7.1	8.7	11.9	15.2	18.4	21.6	18.4	15.2	11.9
97.5°	23.3	27.3	29.3	30.4	32.6	34.8	37.0	39.2	37.0	34.8	32.6
100°	48.4	60.7	66.8	66.0	64.4	62.9	61.3	59.7	61.3	62.9	64.4
102.5°	67.1	80.8	87.6	87.1	86.1	85.0	84.0	83.0	84.0	85.0	86.1
105°	98.6	105.7	109.2	108.8	107.9	107.0	106.2	105.3	106.2	107.0	107.9
107.5°	134.0	132.8	132.2	131.8	131.1	130.4	129.7	129.0	129.7	130.4	131.1
110°	156.8	155.9	155.5	155.2	154.6	153.9	153.3	152.7	153.3	153.9	154.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	179.0	178.1	177.7	177.4	176.9	176.4	175.8	175.3	175.8	176.4	176.9
115°	200.7	200.0	199.7	199.5	199.0	198.5	198.0	197.5	198.0	198.5	199.0
117.5°	222.5	222.1	221.9	221.6	221.1	220.5	220.0	219.4	220.0	220.5	221.1
120°	243.1	242.9	242.8	242.4	241.7	241.0	240.3	239.6	240.3	241.0	241.7
122.5°	263.1	262.8	262.6	262.3	261.8	261.2	260.7	260.1	260.7	261.2	261.8
125°	281.8	281.5	281.3	281.0	280.4	279.7	279.1	278.5	279.1	279.7	280.4
127.5°	300.3	299.9	299.7	299.4	298.7	298.1	297.4	296.8	297.4	298.1	298.7
130°	317.1	316.8	316.6	316.3	315.7	315.0	314.4	313.8	314.4	315.0	315.7
132.5°	333.2	333.0	332.9	332.6	332.0	331.3	330.7	330.1	330.7	331.3	332.0
135°	349.3	349.0	348.8	348.6	348.1	347.6	347.2	346.7	347.2	347.6	348.1
137.5°	363.8	363.7	363.6	363.3	362.7	362.0	361.4	360.8	361.4	362.0	362.7
140°	377.4	377.2	377.1	376.9	376.4	375.9	375.4	374.9	375.4	375.9	376.4
142.5°	390.5	390.2	390.1	389.9	389.4	388.9	388.5	388.0	388.5	388.9	389.4
145°	402.7	402.6	402.5	402.2	401.7	401.1	400.6	400.0	400.6	401.1	401.7
147.5°	413.7	413.6	413.5	413.3	412.9	412.5	412.1	411.7	412.1	412.5	412.9
150°	423.6	423.4	423.3	423.2	423.0	422.7	422.5	422.3	422.5	422.7	423.0
152.5°	432.3	432.2	432.2	432.2	432.1	432.0	431.9	431.8	431.9	432.0	432.1
155°	440.1	440.0	440.0	440.1	440.2	440.4	440.5	440.7	440.5	440.4	440.2
157.5°	447.6	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7	447.7
160°	453.6	453.7	453.7	453.7	453.8	453.9	454.0	454.1	454.0	453.9	453.8
162.5°	458.9	459.0	459.0	459.1	459.4	459.6	459.9	460.1	459.9	459.6	459.4
165°	463.5	463.6	463.6	463.7	464.0	464.2	464.5	464.7	464.5	464.2	464.0
167.5°	467.2	467.2	467.2	467.4	467.7	468.0	468.3	468.6	468.3	468.0	467.7
170°	470.3	470.3	470.3	470.5	470.8	471.1	471.5	471.8	471.5	471.1	470.8
172.5°	472.2	472.1	472.1	472.3	472.7	473.1	473.5	473.9	473.5	473.1	472.7
175°	474.0	473.9	473.9	474.1	474.5	474.8	475.2	475.6	475.2	474.8	474.5
177.5°	474.7	474.6	474.6	474.8	475.2	475.6	476.0	476.4	476.0	475.6	475.2
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	874.5	870.8	869.2	865.4	856.3	850.3	843.4	838.9	839.7	835.9	838.1
5°	847.2	846.5	841.2	833.6	820.7	813.9	801.7	795.7	792.6	793.4	788.8
7.5°	824.5	817.7	813.9	801.7	789.6	775.2	765.3	760.0	755.5	750.9	747.9
10°	798.7	792.6	786.6	773.7	757.0	743.3	729.7	724.4	717.5	714.5	712.2
12.5°	771.4	767.6	760.0	744.8	725.9	713.0	697.1	694.0	684.9	678.9	677.3
15°	746.4	744.1	730.4	713.0	694.0	681.1	667.5	658.4	643.2	646.2	640.9
17.5°	719.8	710.0	701.6	678.1	669.0	649.3	633.3	628.8	618.2	611.3	604.5
20°	690.2	684.2	673.5	658.4	636.4	613.6	601.5	593.9	587.8	577.2	574.2
22.5°	662.2	654.6	645.5	625.8	606.8	587.8	571.1	564.3	556.7	549.2	544.6
25°	640.2	628.8	618.9	594.7	575.7	559.8	549.2	537.8	527.2	522.6	521.1
27.5°	606.0	599.2	589.4	566.6	549.2	531.7	521.8	514.3	502.9	497.6	493.0
30°	584.0	570.4	559.0	540.8	523.4	504.4	495.3	486.2	479.4	472.5	467.2
32.5°	554.5	543.8	534.7	516.5	499.1	481.6	471.8	458.1	454.3	449.0	443.0
35°	525.6	518.8	509.0	489.2	470.3	458.1	447.5	434.6	430.1	426.3	421.0
37.5°	498.3	488.5	481.6	462.7	446.0	431.6	423.2	412.6	409.6	405.0	401.2
40°	474.8	465.0	458.1	439.2	421.7	406.6	401.2	390.6	386.1	380.8	378.5
42.5°	448.3	439.9	430.8	417.2	399.0	383.8	373.2	367.1	361.0	358.8	354.2
45°	420.2	412.6	405.8	390.6	371.7	361.0	351.9	343.6	339.0	335.3	332.2
47.5°	395.9	389.1	380.0	363.3	348.1	338.3	329.2	320.8	316.3	311.7	307.9
50°	367.9	364.1	354.2	338.3	323.9	312.5	304.2	296.6	293.5	288.2	282.2
52.5°	342.8	336.0	327.7	314.8	301.9	288.2	276.9	272.3	267.0	264.0	258.6
55°	313.3	308.7	299.6	288.2	274.6	263.2	254.9	248.8	242.0	238.9	232.1
57.5°	288.2	279.9	275.3	260.9	248.0	236.7	230.6	224.5	216.9	212.4	209.3
60°	260.9	253.3	246.5	234.4	225.3	213.1	204.0	198.7	193.4	187.3	184.3
62.5°	234.4	228.3	220.0	210.1	198.7	188.9	182.0	174.5	171.4	165.4	163.1
65°	205.6	201.0	194.2	182.8	173.7	165.4	158.5	152.5	149.4	147.1	145.6
67.5°	179.8	173.7	169.1	159.3	149.4	142.6	138.8	135.0	131.2	128.9	126.7
70°	153.2	148.7	144.1	135.0	128.2	122.1	119.1	116.0	113.8	111.5	109.2
72.5°	125.9	123.6	119.1	113.0	107.7	103.2	100.9	97.1	94.8	91.0	89.5
75°	103.9	100.1	97.8	92.5	88.0	84.2	81.2	76.6	73.6	72.1	71.3
77.5°	81.9	80.4	77.4	72.8	70.5	66.7	62.2	60.7	59.2	59.2	58.4
80°	61.4	59.2	56.9	53.1	50.8	47.8	47.8	47.8	47.0	47.8	47.0
82.5°	41.7	40.2	38.7	36.4	35.6	35.6	36.4	36.4	36.4	36.4	36.4
85°	24.3	24.3	24.3	25.0	24.3	24.3	25.0	25.8	25.0	25.0	24.3
87.5°	11.4	11.4	12.1	12.1	12.9	12.9	12.9	12.9	12.9	12.9	13.7
90°	3.5	3.9	4.4	5.4	6.5	7.5	8.5	8.8	9.1	9.4	9.7
92.5°	6.2	6.0	6.4	7.1	7.8	8.5	9.2	9.8	10.3	10.9	11.4
95°	8.7	7.1	7.5	8.4	9.3	10.1	11.0	11.5	12.1	12.6	13.1
97.5°	30.4	29.3	27.3	23.3	19.3	15.3	11.3	11.9	12.5	13.2	13.8
100°	66.0	66.8	60.7	48.4	36.2	23.9	11.7	12.3	12.9	13.6	14.2
102.5°	87.1	87.6	80.8	67.1	53.4	39.8	26.1	23.5	20.9	18.4	15.8
105°	108.8	109.2	105.7	98.6	91.5	84.5	77.4	63.5	49.6	35.7	21.8
107.5°	131.8	132.2	132.8	134.0	135.1	136.3	137.5	125.4	113.3	101.2	89.1
110°	155.2	155.5	155.9	156.8	157.7	158.5	159.4	156.8	154.2	151.6	149.0

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	177.4	177.7	178.1	179.0	179.9	180.7	181.6	182.3	183.0	183.7	184.4
115°	199.5	199.7	200.0	200.7	201.4	202.1	202.8	203.6	204.4	205.2	206.0
117.5°	221.6	221.9	222.1	222.5	222.9	223.3	223.7	224.3	224.9	225.6	226.2
120°	242.4	242.8	242.9	243.1	243.4	243.6	243.8	244.4	245.1	245.7	246.4
122.5°	262.3	262.6	262.8	263.1	263.4	263.7	264.0	264.4	264.8	265.1	265.5
125°	281.0	281.3	281.5	281.8	282.1	282.4	282.7	282.9	283.0	283.2	283.3
127.5°	299.4	299.7	299.9	300.3	300.6	301.0	301.4	301.6	301.9	302.1	302.4
130°	316.3	316.6	316.8	317.1	317.4	317.7	318.0	318.3	318.7	319.0	319.3
132.5°	332.6	332.9	333.0	333.2	333.5	333.7	333.9	334.2	334.6	334.9	335.2
135°	348.6	348.8	349.0	349.3	349.6	349.9	350.2	350.4	350.7	350.9	351.2
137.5°	363.3	363.6	363.7	363.8	364.0	364.1	364.3	364.7	365.1	365.5	365.9
140°	376.9	377.1	377.2	377.4	377.7	377.9	378.1	378.4	378.7	379.0	379.3
142.5°	389.9	390.1	390.2	390.5	390.7	391.0	391.2	391.4	391.6	391.9	392.1
145°	402.2	402.5	402.6	402.7	402.9	403.0	403.2	403.4	403.5	403.7	403.8
147.5°	413.3	413.5	413.6	413.7	413.9	414.0	414.2	414.4	414.5	414.7	414.8
150°	423.2	423.3	423.4	423.6	423.7	423.9	424.1	424.3	424.4	424.6	424.7
152.5°	432.2	432.2	432.2	432.3	432.4	432.4	432.5	432.8	433.1	433.4	433.7
155°	440.1	440.0	440.0	440.1	440.2	440.2	440.3	440.7	441.1	441.5	441.9
157.5°	447.7	447.7	447.7	447.6	447.5	447.5	447.4	447.9	448.3	448.8	449.3
160°	453.7	453.7	453.7	453.6	453.5	453.5	453.4	453.9	454.3	454.8	455.3
162.5°	459.1	459.0	459.0	458.9	458.8	458.8	458.7	459.3	459.8	460.4	460.9
165°	463.7	463.6	463.6	463.5	463.4	463.4	463.3	463.9	464.5	465.2	465.8
167.5°	467.4	467.2	467.2	467.2	467.2	467.2	467.2	467.8	468.4	469.1	469.7
170°	470.5	470.3	470.3	470.3	470.3	470.3	470.3	470.9	471.6	472.2	472.9
172.5°	472.3	472.1	472.1	472.2	472.3	472.4	472.5	473.1	473.7	474.4	475.0
175°	474.1	473.9	473.9	474.0	474.1	474.1	474.2	474.8	475.3	475.9	476.4
177.5°	474.8	474.6	474.6	474.7	474.8	474.8	474.9	475.5	476.2	476.8	477.5
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	837.4	838.1	835.9	831.3	830.6	832.1	836.6	835.1	831.3	838.1	832.1
5°	791.1	787.3	785.8	787.3	782.8	780.5	785.0	782.8	785.0	785.8	788.1
7.5°	746.4	747.1	742.6	743.3	737.3	738.8	738.8	738.8	741.1	742.6	745.6
10°	707.7	709.2	703.9	704.6	700.1	697.1	699.3	703.9	703.9	703.9	705.4
12.5°	676.6	669.8	666.0	665.2	659.9	658.4	662.9	664.4	668.2	668.2	670.5
15°	637.9	636.4	633.3	633.3	620.5	623.5	625.0	630.3	637.9	631.8	633.3
17.5°	603.0	599.2	595.4	593.9	592.4	587.8	593.9	593.1	597.7	598.5	600.7
20°	571.9	568.9	561.3	562.0	563.6	556.7	560.5	560.5	565.1	569.6	574.9
22.5°	541.6	538.5	534.7	536.3	531.7	530.2	530.2	534.0	539.3	543.1	542.3
25°	518.1	512.7	510.5	508.2	505.9	507.4	505.2	509.0	512.7	515.0	512.7
27.5°	491.5	489.2	484.7	482.4	478.6	480.1	481.6	484.7	487.0	487.0	489.2
30°	465.7	462.7	461.2	458.9	458.9	455.9	456.6	459.6	461.9	464.2	467.2
32.5°	440.7	438.4	436.1	436.1	434.6	433.9	433.1	437.7	437.7	442.2	442.2
35°	420.2	416.4	416.4	412.6	414.1	413.4	411.9	414.9	415.7	418.7	417.9
37.5°	397.5	397.5	395.9	392.1	389.1	389.9	393.7	393.7	395.9	395.2	397.5
40°	374.7	373.2	373.2	370.9	370.1	369.4	370.1	370.9	374.7	373.9	374.7
42.5°	351.9	352.7	348.9	348.9	348.9	346.6	347.4	348.1	349.7	351.2	353.5
45°	329.9	328.4	327.7	326.2	324.6	325.4	324.6	327.7	326.9	328.4	330.7
47.5°	306.4	304.2	303.4	300.4	300.4	301.9	301.1	303.4	304.2	306.4	304.9
50°	283.7	280.6	278.4	279.1	274.6	276.1	276.1	278.4	280.6	281.4	282.9
52.5°	257.1	256.4	255.6	251.8	251.1	250.3	251.1	251.8	254.9	257.1	257.9
55°	231.3	230.6	226.0	224.5	222.2	222.2	223.8	224.5	229.8	230.6	233.6
57.5°	207.8	205.6	200.2	199.5	199.5	199.5	197.2	200.2	201.8	205.6	205.6
60°	182.0	182.0	177.5	177.5	178.2	177.5	177.5	178.2	178.2	181.3	182.8
62.5°	161.6	160.8	160.8	159.3	158.5	159.3	158.5	158.5	159.3	161.6	163.8
65°	143.4	142.6	141.8	141.1	139.6	139.6	140.3	141.8	141.8	143.4	144.1
67.5°	125.9	125.9	124.4	124.4	123.6	122.9	123.6	122.9	125.9	125.9	126.7
70°	108.5	107.7	105.4	104.7	102.4	103.2	103.2	105.4	106.2	107.7	109.2
72.5°	87.2	87.2	85.7	84.2	85.0	83.4	83.4	84.2	84.2	86.5	87.2
75°	72.1	70.5	69.8	70.5	69.8	71.3	69.8	69.8	71.3	71.3	71.3
77.5°	59.2	59.2	58.4	58.4	59.2	58.4	59.2	59.2	59.2	58.4	59.2
80°	48.5	47.8	47.8	47.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
82.5°	36.4	36.4	35.6	36.4	36.4	35.6	36.4	35.6	35.6	36.4	36.4
85°	24.3	25.8	24.3	24.3	25.0	25.0	25.8	25.0	25.8	24.3	25.0
87.5°	12.9	13.7	13.7	12.9	12.9	13.7	13.7	13.7	14.4	12.9	13.7
90°	9.9	10.0	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.9
92.5°	11.7	11.7	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7
95°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	14.1	14.1	14.2	14.3	14.4	14.5	14.4	14.3	14.2	14.1	14.1
100°	14.5	14.5	14.6	14.7	14.7	14.8	14.7	14.7	14.6	14.5	14.5
102.5°	14.5	14.6	14.7	14.9	15.0	15.2	15.0	14.9	14.7	14.6	14.5
105°	14.8	14.9	15.0	15.2	15.3	15.5	15.3	15.2	15.0	14.9	14.8
107.5°	83.0	77.9	67.6	57.3	47.1	36.8	47.1	57.3	67.6	77.9	83.0
110°	147.7	142.1	130.9	119.6	108.4	97.2	108.4	119.6	130.9	142.1	147.7

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	184.8	184.7	184.6	184.4	184.3	184.1	184.3	184.4	184.6	184.7	184.8
115°	206.4	206.6	206.9	207.2	207.5	207.8	207.5	207.2	206.9	206.6	206.4
117.5°	226.5	226.5	226.6	226.7	226.8	226.9	226.8	226.7	226.6	226.5	226.5
120°	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7
122.5°	265.7	265.7	265.8	265.9	266.0	266.1	266.0	265.9	265.8	265.7	265.7
125°	283.4	283.5	283.6	283.8	283.9	284.1	283.9	283.8	283.6	283.5	283.4
127.5°	302.5	302.4	302.3	302.1	302.0	301.8	302.0	302.1	302.3	302.4	302.5
130°	319.5	319.4	319.2	319.1	318.9	318.7	318.9	319.1	319.2	319.4	319.5
132.5°	335.4	335.3	335.0	334.8	334.5	334.3	334.5	334.8	335.0	335.3	335.4
135°	351.3	351.2	350.9	350.7	350.4	350.2	350.4	350.7	350.9	351.2	351.3
137.5°	366.1	366.0	365.9	365.7	365.6	365.4	365.6	365.7	365.9	366.0	366.1
140°	379.5	379.4	379.3	379.1	379.0	378.8	379.0	379.1	379.3	379.4	379.5
142.5°	392.2	392.1	391.9	391.6	391.4	391.2	391.4	391.6	391.9	392.1	392.2
145°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9	403.9
147.5°	414.9	414.7	414.3	413.9	413.5	413.1	413.5	413.9	414.3	414.7	414.9
150°	424.8	424.7	424.4	424.2	423.9	423.7	423.9	424.2	424.4	424.7	424.8
152.5°	433.9	433.7	433.3	433.0	432.6	432.2	432.6	433.0	433.3	433.7	433.9
155°	442.1	441.9	441.4	440.9	440.5	440.0	440.5	440.9	441.4	441.9	442.1
157.5°	449.5	449.2	448.6	447.9	447.3	446.7	447.3	447.9	448.6	449.2	449.5
160°	455.5	455.2	454.7	454.1	453.6	453.0	453.6	454.1	454.7	455.2	455.5
162.5°	461.2	461.0	460.5	460.0	459.5	459.0	459.5	460.0	460.5	461.0	461.2
165°	466.1	465.8	465.3	464.7	464.2	463.6	464.2	464.7	465.3	465.8	466.1
167.5°	470.0	469.7	469.1	468.4	467.8	467.2	467.8	468.4	469.1	469.7	470.0
170°	473.2	472.9	472.2	471.6	470.9	470.3	470.9	471.6	472.2	472.9	473.2
172.5°	475.3	474.9	474.2	473.5	472.8	472.1	472.8	473.5	474.2	474.9	475.3
175°	476.7	476.4	475.8	475.1	474.5	473.9	474.5	475.1	475.8	476.4	476.7
177.5°	477.8	477.4	476.6	475.8	475.0	474.2	475.0	475.8	476.6	477.4	477.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9	885.9
2.5°	838.1	841.2	838.1	832.1	838.1	841.9	845.7	851.8	854.8	854.8	859.4
5°	790.4	796.4	794.1	792.6	798.7	802.5	808.6	816.1	824.5	829.8	835.9
7.5°	747.9	751.7	755.5	755.5	761.5	769.9	779.0	788.1	798.7	806.3	810.8
10°	710.7	713.7	716.0	719.1	728.2	737.3	749.4	760.8	769.9	778.2	785.8
12.5°	675.1	679.6	684.9	687.2	694.0	705.4	716.8	730.4	744.8	753.2	760.8
15°	640.9	643.2	649.3	656.1	662.2	674.3	688.7	703.1	715.3	728.2	735.0
17.5°	606.0	606.8	622.7	618.9	638.7	650.0	657.6	671.3	691.0	701.6	712.2
20°	571.9	579.5	586.3	590.1	600.7	613.6	635.6	646.2	662.2	672.0	681.1
22.5°	545.4	556.7	556.7	565.8	571.1	583.3	599.2	619.7	637.1	644.0	656.9
25°	521.8	527.2	536.3	539.3	549.2	559.8	570.4	592.4	611.3	620.5	629.6
27.5°	491.5	498.3	510.5	510.5	523.4	534.7	547.6	562.0	581.0	593.9	603.8
30°	468.0	474.8	480.1	488.5	493.8	504.4	527.2	537.8	554.5	565.8	578.0
32.5°	446.0	451.3	455.9	465.0	471.0	483.2	495.3	514.3	528.7	539.3	552.2
35°	421.7	427.0	433.1	439.9	449.0	460.4	471.8	487.7	502.1	512.0	522.6
37.5°	399.0	402.8	411.9	416.4	424.0	434.6	449.0	465.7	478.6	486.2	496.8
40°	377.0	380.0	386.8	395.2	400.5	408.8	424.0	438.4	454.3	463.4	471.8
42.5°	353.5	357.3	363.3	371.7	380.0	389.1	397.5	414.1	428.6	436.1	445.2
45°	333.0	335.3	339.8	348.1	356.5	363.3	376.2	391.4	405.0	411.1	421.0
47.5°	308.7	311.0	317.8	321.6	330.7	339.8	352.7	367.9	380.0	386.1	395.2
50°	283.7	286.0	290.5	298.8	304.9	314.8	326.2	339.0	354.2	362.6	367.9
52.5°	259.4	264.0	267.7	274.6	282.2	292.0	302.6	314.8	327.7	336.0	342.1
55°	235.1	238.9	243.5	247.3	256.4	265.5	277.6	289.0	300.4	307.9	314.8
57.5°	207.8	213.1	217.7	225.3	232.1	239.7	253.3	262.4	276.1	281.4	287.5
60°	184.3	189.6	193.4	199.5	205.6	215.4	224.5	235.9	247.3	254.1	261.7
62.5°	164.6	166.9	169.1	175.2	181.3	190.4	199.5	210.9	223.0	226.8	232.9
65°	144.9	147.1	150.9	156.3	160.8	166.1	176.0	185.1	196.5	202.5	204.8
67.5°	128.2	130.5	131.2	135.0	138.8	144.9	150.2	159.3	169.9	173.7	178.2
70°	109.2	113.0	113.8	116.8	118.3	122.1	128.2	135.0	143.4	150.2	154.0
72.5°	87.2	92.5	94.1	98.6	100.9	104.7	109.2	114.5	119.8	122.9	125.9
75°	71.3	72.8	73.6	77.4	81.2	86.5	88.7	91.8	96.3	100.1	103.2
77.5°	59.2	59.9	60.7	60.7	61.4	64.5	69.0	72.8	75.8	77.4	79.6
80°	47.8	47.0	47.0	47.8	47.8	47.8	49.3	54.6	56.1	59.9	59.2
82.5°	37.2	35.6	36.4	35.6	35.6	35.6	35.6	36.4	36.4	38.7	40.2
85°	24.3	25.0	24.3	24.3	23.5	24.3	23.5	23.5	22.8	22.8	22.0
87.5°	12.9	13.7	12.9	12.9	12.1	12.9	12.1	12.1	11.4	11.4	9.9
90°	9.7	9.4	9.1	8.8	8.5	7.5	6.5	5.4	4.4	3.9	3.5
92.5°	11.4	10.9	10.3	9.8	9.2	8.5	7.8	7.1	6.4	6.0	6.2
95°	13.1	12.6	12.1	11.5	11.0	10.1	9.3	8.4	7.5	7.1	8.7
97.5°	13.8	13.2	12.5	11.9	11.3	15.3	19.3	23.3	27.3	29.3	30.4
100°	14.2	13.6	12.9	12.3	11.7	23.9	36.2	48.4	60.7	66.8	66.0
102.5°	15.8	18.4	20.9	23.5	26.1	39.8	53.4	67.1	80.8	87.6	87.1
105°	21.8	35.7	49.6	63.5	77.4	84.5	91.5	98.6	105.7	109.2	108.8
107.5°	89.1	101.2	113.3	125.4	137.5	136.3	135.1	134.0	132.8	132.2	131.8
110°	149.0	151.6	154.2	156.8	159.4	158.5	157.7	156.8	155.9	155.5	155.2

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	184.4	183.7	183.0	182.3	181.6	180.7	179.9	179.0	178.1	177.7	177.4
115°	206.0	205.2	204.4	203.6	202.8	202.1	201.4	200.7	200.0	199.7	199.5
117.5°	226.2	225.6	224.9	224.3	223.7	223.3	222.9	222.5	222.1	221.9	221.6
120°	246.4	245.7	245.1	244.4	243.8	243.6	243.4	243.1	242.9	242.8	242.4
122.5°	265.5	265.1	264.8	264.4	264.0	263.7	263.4	263.1	262.8	262.6	262.3
125°	283.3	283.2	283.0	282.9	282.7	282.4	282.1	281.8	281.5	281.3	281.0
127.5°	302.4	302.1	301.9	301.6	301.4	301.0	300.6	300.3	299.9	299.7	299.4
130°	319.3	319.0	318.7	318.3	318.0	317.7	317.4	317.1	316.8	316.6	316.3
132.5°	335.2	334.9	334.6	334.2	333.9	333.7	333.5	333.2	333.0	332.9	332.6
135°	351.2	350.9	350.7	350.4	350.2	349.9	349.6	349.3	349.0	348.8	348.6
137.5°	365.9	365.5	365.1	364.7	364.3	364.1	364.0	363.8	363.7	363.6	363.3
140°	379.3	379.0	378.7	378.4	378.1	377.9	377.7	377.4	377.2	377.1	376.9
142.5°	392.1	391.9	391.6	391.4	391.2	391.0	390.7	390.5	390.2	390.1	389.9
145°	403.8	403.7	403.5	403.4	403.2	403.0	402.9	402.7	402.6	402.5	402.2
147.5°	414.8	414.7	414.5	414.4	414.2	414.0	413.9	413.7	413.6	413.5	413.3
150°	424.7	424.6	424.4	424.3	424.1	423.9	423.7	423.6	423.4	423.3	423.2
152.5°	433.7	433.4	433.1	432.8	432.5	432.4	432.4	432.3	432.2	432.2	432.2
155°	441.9	441.5	441.1	440.7	440.3	440.2	440.2	440.1	440.0	440.0	440.1
157.5°	449.3	448.8	448.3	447.9	447.4	447.5	447.5	447.6	447.7	447.7	447.7
160°	455.3	454.8	454.3	453.9	453.4	453.5	453.5	453.6	453.7	453.7	453.7
162.5°	460.9	460.4	459.8	459.3	458.7	458.8	458.8	458.9	459.0	459.0	459.1
165°	465.8	465.2	464.5	463.9	463.3	463.4	463.4	463.5	463.6	463.6	463.7
167.5°	469.7	469.1	468.4	467.8	467.2	467.2	467.2	467.2	467.2	467.2	467.4
170°	472.9	472.2	471.6	470.9	470.3	470.3	470.3	470.3	470.3	470.3	470.5
172.5°	475.0	474.4	473.7	473.1	472.5	472.4	472.3	472.2	472.1	472.1	472.3
175°	476.4	475.9	475.3	474.8	474.2	474.1	474.1	474.0	473.9	473.9	474.1
177.5°	477.5	476.8	476.2	475.5	474.9	474.8	474.8	474.7	474.6	474.6	474.8
180°	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6	475.6

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	885.9	885.9	885.9	885.9
2.5°	863.2	868.5	879.1	888.2
5°	845.0	853.3	869.2	885.2
7.5°	823.0	835.9	856.3	878.3
10°	801.7	818.4	843.4	869.2
12.5°	780.5	797.9	824.5	857.9
15°	755.5	773.7	805.5	845.7
17.5°	733.5	757.7	786.6	826.8
20°	710.0	728.2	765.3	807.8
22.5°	680.4	710.7	745.6	790.4
25°	656.9	683.4	718.3	769.1
27.5°	628.0	659.1	701.6	746.4
30°	604.5	630.3	669.8	723.6
32.5°	577.2	607.6	648.5	701.6
35°	552.9	578.7	617.4	671.3
37.5°	524.1	552.2	595.4	643.2
40°	499.1	526.4	567.4	612.1
42.5°	468.8	497.6	538.5	576.5
45°	444.5	471.0	503.6	538.5
47.5°	414.9	443.0	474.8	499.1
50°	388.4	414.1	439.2	459.6
52.5°	359.5	383.0	405.8	421.0
55°	333.0	351.2	369.4	380.0
57.5°	301.9	319.3	334.5	340.6
60°	274.6	289.0	298.8	305.7
62.5°	245.8	256.4	264.0	267.7
65°	217.7	225.3	229.1	232.9
67.5°	188.9	195.7	198.0	202.5
70°	158.5	166.1	167.6	169.9
72.5°	135.8	135.8	138.8	141.8
75°	108.5	110.0	111.5	111.5
77.5°	85.0	85.0	86.5	87.2
80°	62.2	63.0	63.0	62.2
82.5°	42.5	44.0	42.5	41.7
85°	23.5	26.5	25.0	25.0
87.5°	9.9	9.9	11.4	9.9
90°	2.7	2.0	1.2	0.4
92.5°	6.7	7.2	7.6	8.1
95°	11.9	15.2	18.4	21.6
97.5°	32.6	34.8	37.0	39.2
100°	64.4	62.9	61.3	59.7
102.5°	86.1	85.0	84.0	83.0
105°	107.9	107.0	106.2	105.3
107.5°	131.1	130.4	129.7	129.0
110°	154.6	153.9	153.3	152.7

TEST NUMBER: P1010942

CATALOG NUMBER: S123RDIP-B560D365UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	176.9	176.4	175.8	175.3
115°	199.0	198.5	198.0	197.5
117.5°	221.1	220.5	220.0	219.4
120°	241.7	241.0	240.3	239.6
122.5°	261.8	261.2	260.7	260.1
125°	280.4	279.7	279.1	278.5
127.5°	298.7	298.1	297.4	296.8
130°	315.7	315.0	314.4	313.8
132.5°	332.0	331.3	330.7	330.1
135°	348.1	347.6	347.2	346.7
137.5°	362.7	362.0	361.4	360.8
140°	376.4	375.9	375.4	374.9
142.5°	389.4	388.9	388.5	388.0
145°	401.7	401.1	400.6	400.0
147.5°	412.9	412.5	412.1	411.7
150°	423.0	422.7	422.5	422.3
152.5°	432.1	432.0	431.9	431.8
155°	440.2	440.4	440.5	440.7
157.5°	447.7	447.7	447.7	447.7
160°	453.8	453.9	454.0	454.1
162.5°	459.4	459.6	459.9	460.1
165°	464.0	464.2	464.5	464.7
167.5°	467.7	468.0	468.3	468.6
170°	470.8	471.1	471.5	471.8
172.5°	472.7	473.1	473.5	473.9
175°	474.5	474.8	475.2	475.6
177.5°	475.2	475.6	476.0	476.4
180°	475.6	475.6	475.6	475.6

(END OF REPORT)