

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: P1008415

Luminaire Tested: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008415
REPORT IS A COMBINATION OF REPORTS P988305 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

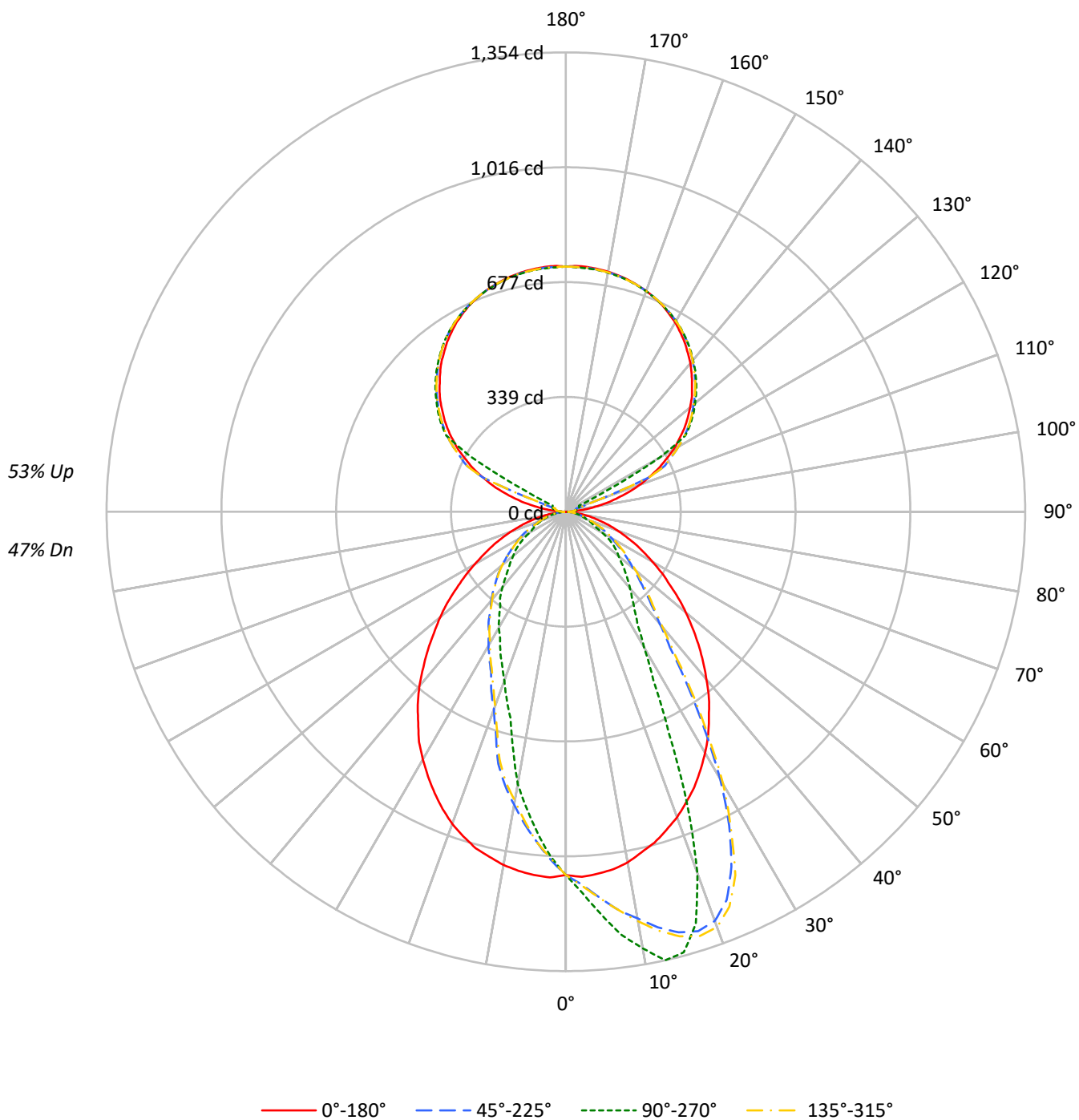
Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53			47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46			41
2	90	83	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40			35
3	82	73	67	61	75	68	62	57	58	53	50	48	45	42	39	37	35			31
4	76	66	58	52	69	61	54	49	52	47	43	43	40	37	35	33	31			27
5	70	59	51	45	64	55	48	43	47	42	38	39	35	33	32	30	28			24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25			22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22			20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	23	25	22	20			18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19			16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	20	22	19	17			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16945	16945	16945	16945
5°	16986	17998	17044	14379
10°	16798	19025	16917	11875
15°	16433	19030	16712	8920
20°	15995	15731	16343	7359
25°	15464	9830	15797	6261
30°	14786	6293	15187	5389
35°	13959	4837	14411	4612
40°	13038	4066	13597	4034
45°	12056	3460	12560	3387
50°	11048	2940	11565	2930
55°	9931	2556	10467	2521
60°	8940	1948	9413	1924
65°	8013	1466	8489	1663
70°	6990	1171	7540	1355
75°	5907	898	6450	1026
80°	4694	610	5046	673
85°	3263	315	3574	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 15501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.6
10°-20°	283.4	7.1
20°-30°	364.8	9.2
30°-40°	346.1	8.7
40°-50°	296.6	7.5
50°-60°	225.9	5.7
60°-70°	142.4	3.6
70°-80°	71.1	1.8
80°-90°	19.5	0.5
90°-100°	23.8	0.6
100°-110°	88.8	2.2
110°-120°	235.6	5.9
120°-130°	390.8	9.8
130°-140°	415.1	10.5
140°-150°	385.8	9.7
150°-160°	310.2	7.8
160°-170°	199.9	5.0
170°-180°	68.8	1.7
0°-30°	749.7	18.9
0°-40°	1095.8	27.6
0°-60°	1618.2	40.8
0°-90°	1851.3	46.6
90°-120°	348.3	8.8
90°-150°	1539.9	38.8
90°-180°	2119.0	53.4
0°-180°	3970.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1070	1070	1070	1070	1070	
5°	1071	1191	1075	952	1071	102
15°	1010	1344	1027	630	1010	284
25°	896	717	915	457	896	411
35°	735	353	759	337	735	460
45°	552	246	575	240	552	426
55°	373	170	393	168	373	336
65°	225	88	239	100	225	224
75°	106	47	115	54	106	114
85°	23	13	25	14	23	26
90°	0	14	0	14	0	3
95°	34	22	34	22	34	40
105°	159	40	159	40	159	170
115°	301	43	301	43	301	296
125°	425	447	425	447	425	379
135°	526	543	526	543	526	406
145°	610	620	610	620	610	382
155°	672	672	672	672	672	310
165°	708	706	708	706	708	200
175°	724	720	724	720	724	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1077.2	1081.7	1083.9	1086.9	1093.6	1098.1	1104.7	1106.2	1105.5	1108.5	1100.3
5°	1071.3	1080.9	1089.9	1097.3	1109.2	1116.6	1124.8	1134.5	1136.7	1147.9	1141.2
7.5°	1063.1	1077.2	1089.9	1104.7	1122.6	1132.3	1144.9	1159.8	1166.5	1179.9	1183.6
10°	1049.7	1069.8	1091.4	1107.0	1131.5	1148.6	1160.5	1184.3	1200.0	1220.1	1217.1
12.5°	1028.1	1054.2	1083.2	1109.2	1141.2	1152.4	1174.7	1199.2	1219.3	1237.9	1254.3
15°	1009.5	1039.3	1071.3	1103.3	1139.7	1160.5	1182.9	1214.8	1236.4	1269.2	1283.3
17.5°	984.2	1022.2	1060.1	1095.8	1139.0	1162.8	1190.3	1221.5	1253.5	1284.8	1295.9
20°	958.2	999.1	1040.0	1088.4	1137.5	1160.5	1188.8	1227.5	1258.7	1283.3	1283.3
22.5°	926.9	976.8	1023.7	1069.8	1123.3	1156.8	1185.8	1231.2	1253.5	1258.7	1238.7
25°	895.7	945.5	996.9	1054.2	1115.2	1144.9	1177.7	1220.1	1227.5	1206.7	1154.6
27.5°	858.5	914.3	972.3	1034.1	1098.1	1135.2	1165.0	1193.3	1179.1	1123.3	1042.3
30°	820.6	880.8	946.3	1005.1	1082.4	1116.6	1141.9	1150.1	1105.5	1014.7	909.8
32.5°	781.1	839.9	909.1	979.8	1057.9	1090.6	1107.0	1085.4	1003.6	889.0	761.0
35°	735.0	801.2	873.4	947.0	1024.4	1049.0	1058.6	1005.8	900.9	752.9	625.7
37.5°	693.3	759.6	836.9	912.1	987.2	1000.6	990.9	908.3	775.2	628.6	504.4
40°	644.2	714.9	790.8	874.9	936.6	940.3	916.5	809.4	644.2	506.6	430.0
42.5°	598.9	670.3	746.2	831.7	878.6	865.9	834.0	693.3	537.9	436.7	374.9
45°	552.0	619.7	701.5	777.4	810.9	781.1	732.8	583.2	451.6	375.7	328.1
47.5°	506.6	569.9	650.9	723.9	729.8	696.3	639.0	488.8	391.3	330.3	291.6
50°	462.0	525.2	601.1	661.4	655.4	609.3	544.6	424.8	340.0	291.6	259.6
52.5°	417.3	474.6	548.3	595.9	570.6	526.0	462.0	360.1	296.8	254.4	229.9
55°	372.7	426.3	489.5	528.9	488.8	437.4	392.1	308.7	257.4	223.2	204.6
57.5°	335.5	377.9	435.9	459.8	411.4	371.2	331.8	265.6	223.2	198.6	177.1
60°	294.6	333.3	380.9	395.0	345.2	312.5	279.0	224.7	191.2	169.6	155.5
62.5°	259.6	291.6	328.1	328.1	284.2	259.6	234.3	188.2	160.7	143.6	136.9
65°	225.4	248.5	274.5	271.5	234.3	212.8	192.7	155.5	134.7	122.7	116.1
67.5°	191.9	209.8	226.9	216.5	189.7	171.1	152.5	125.7	111.6	103.4	94.5
70°	161.4	175.6	184.5	174.8	148.0	132.4	119.0	101.2	90.0	79.6	74.4
72.5°	135.4	141.3	144.3	132.4	110.1	101.2	91.5	78.9	69.2	64.0	62.5
75°	105.6	110.8	108.6	99.7	81.1	74.4	67.0	58.0	55.8	52.8	51.3
77.5°	82.6	82.6	78.9	70.7	58.0	52.8	49.8	45.4	43.1	42.4	40.9
80°	58.8	58.0	55.8	46.9	39.4	36.5	36.5	33.5	32.7	31.2	31.2
82.5°	38.7	38.7	35.7	28.3	26.0	25.3	24.5	23.1	23.1	22.3	22.3
85°	23.1	21.6	17.9	15.6	14.9	14.9	14.1	13.4	14.1	13.4	13.4
87.5°	10.4	8.2	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
90°	0.5	1.8	3.1	4.4	5.7	6.3	6.8	7.7	8.6	9.6	10.5
92.5°	13.1	12.6	12.2	11.7	11.2	11.0	11.2	11.5	11.9	12.2	12.6
95°	34.0	30.2	26.3	22.5	18.6	16.7	17.1	17.9	18.8	19.6	20.4
97.5°	61.2	51.7	42.1	32.6	23.1	18.3	19.2	21.1	23.0	24.8	26.7
100°	92.6	76.7	60.7	44.8	28.9	20.9	21.9	23.9	25.8	27.8	29.8
102.5°	127.1	126.9	126.6	126.4	126.1	126.0	115.4	94.3	73.2	52.0	30.9
105°	159.0	162.5	166.0	169.5	173.0	174.7	158.8	127.1	95.4	63.6	31.9
107.5°	196.1	199.0	201.9	204.8	207.7	209.2	189.6	150.4	111.3	72.1	32.9
110°	231.7	234.1	236.5	239.0	241.4	242.6	225.8	192.2	158.7	125.1	91.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	265.1	267.2	269.3	271.4	273.5	274.5	273.5	271.6	269.6	267.7	265.7
115°	300.7	302.7	304.7	306.6	308.6	309.6	311.1	314.0	316.9	319.8	322.7
117.5°	331.5	333.8	336.2	338.5	340.8	342.0	343.0	345.0	346.9	348.9	350.9
120°	366.1	367.8	369.6	371.3	373.0	373.9	374.9	377.0	379.1	381.2	383.3
122.5°	395.3	397.2	399.0	400.9	402.8	403.7	404.9	407.2	409.5	411.9	414.2
125°	425.2	426.7	428.2	429.7	431.2	432.0	433.1	435.3	437.5	439.7	441.9
127.5°	452.3	453.9	455.6	457.2	458.9	459.7	460.6	462.3	464.0	465.8	467.5
130°	478.0	479.8	481.7	483.5	485.4	486.3	486.9	488.2	489.5	490.8	492.1
132.5°	504.1	505.6	507.1	508.6	510.1	510.9	511.5	512.8	514.1	515.4	516.7
135°	526.1	527.9	529.8	531.6	533.5	534.4	534.9	536.0	537.1	538.1	539.2
137.5°	549.1	550.5	551.9	553.3	554.7	555.4	556.0	557.1	558.3	559.4	560.6
140°	571.6	572.5	573.5	574.4	575.3	575.8	576.4	577.7	579.0	580.2	581.5
142.5°	590.4	591.2	592.0	592.9	593.7	594.1	594.9	596.4	597.9	599.4	600.9
145°	610.3	610.2	610.1	610.0	609.9	609.8	610.8	612.7	614.7	616.6	618.6
147.5°	627.5	627.2	626.8	626.5	626.2	626.0	627.0	629.0	630.9	632.9	634.9
150°	644.3	643.5	642.7	641.8	641.0	640.6	641.5	643.4	645.3	647.1	649.0
152.5°	658.4	657.5	656.5	655.6	654.7	654.2	655.1	656.8	658.5	660.3	662.0
155°	672.0	671.0	669.9	668.9	667.8	667.3	668.0	669.4	670.8	672.2	673.6
157.5°	683.0	682.1	681.1	680.2	679.3	678.8	679.3	680.4	681.4	682.5	683.5
160°	692.4	691.7	691.0	690.3	689.6	689.2	689.6	690.3	691.0	691.7	692.4
162.5°	700.7	700.0	699.3	698.6	697.9	697.6	697.9	698.5	699.0	699.6	700.2
165°	708.1	707.4	706.7	706.0	705.3	704.9	705.1	705.4	705.8	706.1	706.5
167.5°	713.8	713.1	712.4	711.7	711.0	710.7	710.9	711.2	711.5	711.9	712.2
170°	718.5	717.8	717.1	716.4	715.7	715.4	715.5	715.7	716.0	716.2	716.4
172.5°	721.7	721.0	720.3	719.6	718.9	718.5	718.6	718.9	719.1	719.4	719.6
175°	724.3	723.5	722.7	721.8	721.0	720.6	720.7	721.0	721.2	721.5	721.7
177.5°	725.3	724.5	723.7	722.9	722.1	721.7	721.8	721.9	722.0	722.1	722.2
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1108.5	1110.0	1112.2	1122.6	1124.1	1127.1	1125.6	1125.6	1126.3	1124.8	1125.6
5°	1156.1	1158.3	1169.5	1182.1	1185.1	1182.1	1185.8	1191.0	1191.0	1191.0	1189.6
7.5°	1200.7	1208.9	1221.5	1240.1	1243.9	1247.6	1254.3	1249.8	1251.3	1258.0	1255.8
10°	1243.9	1255.8	1269.9	1285.5	1293.7	1298.9	1301.9	1308.6	1324.2	1306.4	1313.0
12.5°	1284.8	1301.9	1316.8	1333.9	1339.8	1346.5	1348.8	1354.7	1354.7	1354.0	1359.2
15°	1311.6	1327.2	1340.6	1351.7	1353.2	1351.7	1350.2	1351.0	1353.2	1344.3	1349.5
17.5°	1317.5	1319.0	1323.5	1319.0	1319.7	1304.1	1295.2	1293.0	1272.1	1272.9	1290.0
20°	1288.5	1263.2	1256.5	1232.0	1217.1	1176.9	1175.4	1164.3	1120.4	1133.8	1130.8
22.5°	1208.9	1165.7	1108.5	1080.2	1066.1	1023.7	990.9	967.9	952.2	936.6	929.9
25°	1104.0	1034.1	953.0	897.2	889.0	849.6	789.3	761.0	727.6	717.2	735.0
27.5°	968.6	877.8	786.3	700.8	685.2	649.5	619.0	598.9	560.2	558.0	559.4
30°	784.9	693.3	616.7	560.9	522.2	505.9	485.8	470.9	455.3	461.2	462.7
32.5°	645.0	558.0	486.5	456.8	438.9	428.5	411.4	401.7	395.0	392.8	392.1
35°	512.6	454.5	422.6	393.5	383.1	375.7	363.0	358.6	352.6	353.4	353.4
37.5°	438.9	390.6	366.8	351.9	342.2	338.5	330.3	325.8	322.1	320.6	322.9
40°	378.7	345.2	330.3	316.9	308.7	307.2	302.8	297.6	293.1	293.9	296.1
42.5°	334.8	315.4	297.6	287.2	281.2	279.0	275.3	271.5	271.5	269.3	268.6
45°	299.8	284.2	269.3	259.6	255.9	252.9	248.5	247.7	244.8	245.5	246.2
47.5°	268.6	255.9	244.8	235.1	231.4	230.6	226.2	223.2	223.2	222.4	221.7
50°	240.3	227.6	218.0	212.8	207.6	206.1	205.3	204.6	203.1	203.1	203.8
52.5°	217.2	204.6	197.1	192.7	189.7	188.2	188.2	187.5	187.5	187.5	186.7
55°	191.9	181.5	175.6	174.1	172.6	171.8	171.1	169.6	168.9	170.4	168.9
57.5°	168.1	164.4	159.2	157.7	154.0	154.0	151.8	150.3	148.8	150.3	150.3
60°	149.5	144.3	141.3	136.9	133.9	130.9	127.2	126.5	125.0	124.2	123.5
62.5°	130.2	125.7	118.3	111.6	107.1	104.2	102.7	101.9	101.9	101.2	101.2
65°	108.6	98.2	94.5	92.2	91.5	90.8	89.3	88.5	89.3	88.5	89.3
67.5°	84.8	83.3	81.1	79.6	78.9	78.1	78.1	77.4	77.4	77.4	77.4
70°	73.6	69.9	69.2	67.7	67.7	67.0	67.0	67.0	67.0	66.2	67.7
72.5°	61.0	58.8	58.0	57.3	57.3	57.3	56.5	56.5	56.5	55.8	56.5
75°	49.8	49.1	47.6	47.6	46.9	47.6	46.9	46.9	46.1	46.9	46.9
77.5°	40.2	39.4	38.7	38.7	37.9	37.9	37.9	37.9	37.9	37.9	38.7
80°	30.5	29.8	29.0	29.8	29.0	29.8	29.0	29.0	29.8	29.0	29.0
82.5°	22.3	21.6	21.6	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
85°	13.4	12.6	12.6	13.4	12.6	13.4	12.6	12.6	12.6	13.4	13.4
87.5°	6.0	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.7
90°	11.1	11.7	12.2	12.8	13.1	13.2	13.4	13.7	13.9	14.1	13.9
92.5°	12.8	13.0	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.0
95°	21.0	21.6	22.1	22.7	23.0	22.9	22.8	22.7	22.6	22.5	22.6
97.5°	27.0	27.4	27.7	28.0	28.2	28.3	28.4	28.5	28.7	28.8	28.7
100°	30.7	31.7	32.6	33.5	34.0	34.1	34.3	34.6	34.8	35.0	34.8
102.5°	32.2	33.4	34.7	36.0	36.6	36.8	37.1	37.5	37.8	38.2	37.8
105°	33.2	34.5	35.8	37.1	37.7	37.9	38.4	38.8	39.3	39.7	39.3
107.5°	34.2	35.5	36.8	38.1	38.7	38.9	39.4	39.9	40.3	40.8	40.3
110°	79.9	68.3	56.6	45.0	39.2	39.4	39.9	40.4	40.8	41.3	40.8

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	215.6	165.5	115.4	65.3	40.3	40.5	40.8	41.1	41.5	41.8	41.5
115°	268.9	215.1	161.2	107.4	80.5	76.3	68.0	59.6	51.3	42.9	51.3
117.5°	334.3	317.7	301.0	284.4	276.1	260.9	230.4	200.0	169.5	139.1	169.5
120°	384.7	386.1	387.5	388.9	389.6	381.8	366.1	350.4	334.7	319.0	334.7
122.5°	414.9	415.6	416.3	417.0	417.3	417.4	417.5	417.6	417.7	417.8	417.7
125°	442.7	443.5	444.3	445.1	445.5	445.7	446.0	446.4	446.7	447.1	446.7
127.5°	468.7	469.8	471.0	472.1	472.7	472.8	472.9	473.0	473.2	473.3	473.2
130°	493.4	494.6	495.9	497.2	497.8	497.7	497.6	497.5	497.4	497.3	497.4
132.5°	517.7	518.8	519.8	520.9	521.4	521.3	521.2	521.1	521.0	520.9	521.0
135°	540.4	541.5	542.7	543.8	544.4	544.3	544.0	543.8	543.5	543.3	543.5
137.5°	561.8	562.9	564.1	565.2	565.8	565.6	565.3	565.0	564.6	564.3	564.6
140°	582.5	583.6	584.6	585.7	586.2	585.9	585.3	584.8	584.2	583.6	584.2
142.5°	601.8	602.7	603.6	604.5	605.0	604.7	604.1	603.6	603.0	602.4	603.0
145°	619.4	620.2	621.1	621.9	622.3	622.0	621.4	620.9	620.3	619.7	620.3
147.5°	635.5	636.1	636.6	637.2	637.5	637.3	636.8	636.3	635.9	635.4	635.9
150°	649.7	650.4	651.1	651.8	652.1	651.8	651.2	650.7	650.1	649.5	650.1
152.5°	662.7	663.4	664.1	664.8	665.2	664.8	664.0	663.1	662.3	661.5	662.3
155°	674.3	675.0	675.7	676.4	676.7	676.2	675.3	674.4	673.4	672.5	673.4
157.5°	684.3	685.1	685.9	686.7	687.1	686.6	685.7	684.8	683.9	683.0	683.9
160°	693.1	693.8	694.5	695.2	695.5	695.1	694.3	693.5	692.7	691.9	692.7
162.5°	701.0	701.8	702.7	703.5	703.9	703.4	702.3	701.3	700.2	699.2	700.2
165°	707.3	708.1	709.0	709.8	710.2	709.8	709.0	708.1	707.3	706.5	707.3
167.5°	713.0	713.8	714.7	715.5	715.9	715.4	714.3	713.3	712.2	711.2	712.2
170°	717.2	718.0	718.9	719.7	720.1	719.6	718.5	717.5	716.4	715.4	716.4
172.5°	720.4	721.2	722.0	722.8	723.2	722.7	721.6	720.6	719.5	718.5	719.5
175°	722.5	723.3	724.1	724.9	725.3	724.7	723.6	722.4	721.3	720.1	721.3
177.5°	723.0	723.8	724.6	725.4	725.8	725.3	724.2	723.2	722.1	721.1	722.1
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1128.6	1123.3	1121.9	1123.3	1121.9	1122.6	1117.4	1098.1	1103.3	1095.1	1099.5
5°	1192.5	1188.1	1178.4	1176.9	1175.4	1173.9	1166.5	1149.4	1142.7	1131.5	1130.8
7.5°	1253.5	1253.5	1246.1	1240.9	1234.2	1229.0	1219.3	1194.0	1183.6	1170.2	1162.8
10°	1313.8	1294.4	1302.6	1297.4	1281.1	1278.1	1260.2	1245.4	1225.3	1211.9	1200.0
12.5°	1356.9	1351.0	1343.5	1339.1	1334.6	1325.0	1313.0	1275.1	1264.7	1237.9	1224.5
15°	1355.5	1351.7	1354.0	1354.0	1352.5	1350.2	1340.6	1313.0	1295.2	1269.2	1246.1
17.5°	1282.5	1292.2	1301.9	1308.6	1323.5	1330.2	1339.1	1322.7	1311.6	1289.2	1264.7
20°	1155.3	1179.1	1207.4	1213.4	1226.8	1266.2	1284.0	1298.2	1302.6	1295.2	1275.1
22.5°	978.3	998.4	1066.8	1065.3	1084.7	1131.5	1183.6	1226.0	1259.5	1278.1	1270.6
25°	766.3	794.5	831.0	858.5	921.7	991.7	1056.4	1124.1	1182.1	1233.4	1246.1
27.5°	579.5	616.7	645.7	682.2	714.2	796.8	880.1	985.7	1053.4	1150.9	1201.5
30°	468.7	485.8	514.8	531.9	547.5	610.8	705.3	809.4	928.4	1040.8	1127.8
32.5°	400.2	412.1	433.7	441.2	457.5	499.9	559.4	654.7	777.4	913.6	1028.1
35°	359.3	372.0	376.4	383.1	396.5	423.3	464.2	533.4	644.2	777.4	914.3
37.5°	324.4	331.1	343.7	348.2	352.6	372.7	400.2	448.6	522.2	631.6	783.4
40°	299.8	303.5	310.2	313.9	316.9	331.1	355.6	388.3	442.6	526.0	665.8
42.5°	273.8	278.2	282.7	287.2	290.9	302.0	316.9	348.2	384.6	447.8	549.0
45°	248.5	251.5	256.7	259.6	264.8	273.8	287.2	308.7	341.5	381.6	463.5
47.5°	225.4	229.1	231.4	235.1	238.8	248.5	261.1	275.3	302.0	341.5	401.0
50°	204.6	209.0	212.0	212.8	215.7	224.7	235.1	250.7	267.8	298.3	350.4
52.5°	189.7	190.4	192.7	195.7	194.9	200.1	209.8	221.7	239.5	264.1	302.0
55°	172.6	174.8	176.3	177.1	177.1	181.5	186.7	197.9	212.0	232.1	264.1
57.5°	151.0	153.3	157.7	159.2	161.4	163.7	165.9	173.3	185.2	204.6	230.6
60°	128.7	130.2	134.7	137.6	139.1	145.1	148.0	154.0	160.7	174.8	199.4
62.5°	103.4	104.9	107.1	110.1	113.1	122.0	129.4	135.4	140.6	150.3	170.4
65°	90.0	90.8	92.2	93.0	93.7	97.5	104.2	112.3	122.0	129.4	141.3
67.5°	78.1	78.9	79.6	81.1	81.8	82.6	85.6	87.8	97.5	107.9	116.8
70°	67.0	68.4	69.2	69.2	69.9	71.4	72.9	75.9	78.9	84.1	95.2
72.5°	56.5	57.3	58.8	58.8	58.8	60.3	61.7	63.2	64.7	67.7	72.2
75°	46.9	48.4	48.4	48.4	49.1	49.1	50.6	52.1	53.6	55.8	57.3
77.5°	38.7	38.7	38.7	38.7	39.4	39.4	40.2	41.7	42.4	43.1	44.6
80°	29.0	29.8	29.8	29.8	30.5	30.5	30.5	32.0	32.7	32.7	34.2
82.5°	21.6	21.6	21.6	22.3	21.6	22.3	22.3	23.1	22.3	23.1	23.8
85°	13.4	13.4	13.4	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.9
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.4	6.7	6.7
90°	13.7	13.4	13.2	13.1	12.8	12.2	11.7	11.1	10.5	9.6	8.6
92.5°	13.9	13.8	13.7	13.6	13.5	13.3	13.0	12.8	12.6	12.2	11.9
95°	22.7	22.8	22.9	23.0	22.7	22.1	21.6	21.0	20.4	19.6	18.8
97.5°	28.5	28.4	28.3	28.2	28.0	27.7	27.4	27.0	26.7	24.8	23.0
100°	34.6	34.3	34.1	34.0	33.5	32.6	31.7	30.7	29.8	27.8	25.8
102.5°	37.5	37.1	36.8	36.6	36.0	34.7	33.4	32.2	30.9	52.0	73.2
105°	38.8	38.4	37.9	37.7	37.1	35.8	34.5	33.2	31.9	63.6	95.4
107.5°	39.9	39.4	38.9	38.7	38.1	36.8	35.5	34.2	32.9	72.1	111.3
110°	40.4	39.9	39.4	39.2	45.0	56.6	68.3	79.9	91.5	125.1	158.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	41.1	40.8	40.5	40.3	65.3	115.4	165.5	215.6	265.7	267.7	269.6
115°	59.6	68.0	76.3	80.5	107.4	161.2	215.1	268.9	322.7	319.8	316.9
117.5°	200.0	230.4	260.9	276.1	284.4	301.0	317.7	334.3	350.9	348.9	346.9
120°	350.4	366.1	381.8	389.6	388.9	387.5	386.1	384.7	383.3	381.2	379.1
122.5°	417.6	417.5	417.4	417.3	417.0	416.3	415.6	414.9	414.2	411.9	409.5
125°	446.4	446.0	445.7	445.5	445.1	444.3	443.5	442.7	441.9	439.7	437.5
127.5°	473.0	472.9	472.8	472.7	472.1	471.0	469.8	468.7	467.5	465.8	464.0
130°	497.5	497.6	497.7	497.8	497.2	495.9	494.6	493.4	492.1	490.8	489.5
132.5°	521.1	521.2	521.3	521.4	520.9	519.8	518.8	517.7	516.7	515.4	514.1
135°	543.8	544.0	544.3	544.4	543.8	542.7	541.5	540.4	539.2	538.1	537.1
137.5°	565.0	565.3	565.6	565.8	565.2	564.1	562.9	561.8	560.6	559.4	558.3
140°	584.8	585.3	585.9	586.2	585.7	584.6	583.6	582.5	581.5	580.2	579.0
142.5°	603.6	604.1	604.7	605.0	604.5	603.6	602.7	601.8	600.9	599.4	597.9
145°	620.9	621.4	622.0	622.3	621.9	621.1	620.2	619.4	618.6	616.6	614.7
147.5°	636.3	636.8	637.3	637.5	637.2	636.6	636.1	635.5	634.9	632.9	630.9
150°	650.7	651.2	651.8	652.1	651.8	651.1	650.4	649.7	649.0	647.1	645.3
152.5°	663.1	664.0	664.8	665.2	664.8	664.1	663.4	662.7	662.0	660.3	658.5
155°	674.4	675.3	676.2	676.7	676.4	675.7	675.0	674.3	673.6	672.2	670.8
157.5°	684.8	685.7	686.6	687.1	686.7	685.9	685.1	684.3	683.5	682.5	681.4
160°	693.5	694.3	695.1	695.5	695.2	694.5	693.8	693.1	692.4	691.7	691.0
162.5°	701.3	702.3	703.4	703.9	703.5	702.7	701.8	701.0	700.2	699.6	699.0
165°	708.1	709.0	709.8	710.2	709.8	709.0	708.1	707.3	706.5	706.1	705.8
167.5°	713.3	714.3	715.4	715.9	715.5	714.7	713.8	713.0	712.2	711.9	711.5
170°	717.5	718.5	719.6	720.1	719.7	718.9	718.0	717.2	716.4	716.2	716.0
172.5°	720.6	721.6	722.7	723.2	722.8	722.0	721.2	720.4	719.6	719.4	719.1
175°	722.4	723.6	724.7	725.3	724.9	724.1	723.3	722.5	721.7	721.5	721.2
177.5°	723.2	724.2	725.3	725.8	725.4	724.6	723.8	723.0	722.2	722.1	722.0
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1092.8	1089.1	1089.1	1086.9	1086.9	1075.0	1075.0	1078.7	1074.2	1069.0	1061.6
5°	1121.1	1112.9	1110.7	1107.7	1098.1	1083.2	1077.2	1075.0	1066.1	1054.9	1042.3
7.5°	1147.9	1134.5	1127.8	1121.1	1108.5	1087.6	1075.7	1067.5	1054.2	1037.0	1020.7
10°	1173.9	1156.8	1139.7	1131.5	1113.7	1087.6	1070.5	1057.1	1037.8	1014.7	991.7
12.5°	1197.7	1162.0	1159.1	1142.7	1116.6	1086.9	1060.9	1041.5	1017.0	990.2	963.4
15°	1218.6	1182.1	1164.3	1149.4	1115.2	1078.0	1050.4	1026.6	993.9	963.4	930.7
17.5°	1229.0	1189.6	1177.7	1153.1	1118.1	1069.8	1032.6	1003.6	967.9	931.4	894.2
20°	1239.4	1193.3	1173.9	1156.8	1109.2	1054.2	1012.5	979.0	939.6	896.4	855.5
22.5°	1244.6	1193.3	1170.2	1146.4	1100.3	1037.0	987.9	948.5	902.4	858.5	809.4
25°	1235.7	1188.8	1161.3	1136.7	1084.7	1016.2	959.7	915.0	865.9	816.1	766.3
27.5°	1213.4	1178.4	1146.4	1121.1	1063.1	989.4	929.9	879.3	828.7	773.0	722.4
30°	1171.7	1156.1	1130.8	1102.5	1039.3	965.6	895.0	842.9	787.1	731.3	678.5
32.5°	1107.0	1120.4	1104.0	1079.5	1011.0	932.9	857.8	804.9	743.9	683.7	635.3
35°	1028.1	1075.7	1066.8	1049.7	981.3	897.9	822.8	758.8	697.8	636.8	588.5
37.5°	941.8	1014.0	1021.4	1011.0	947.0	862.2	779.6	717.2	654.7	592.9	543.8
40°	823.5	934.4	958.2	962.7	911.3	819.1	732.8	671.8	610.0	549.8	490.3
42.5°	714.9	854.8	884.5	903.1	865.9	776.7	689.6	621.9	560.9	506.6	447.1
45°	613.0	758.8	807.2	831.0	814.6	728.3	638.3	575.1	519.3	469.4	412.1
47.5°	508.1	654.7	722.4	760.3	760.3	679.2	589.2	526.7	473.1	430.7	380.2
50°	438.2	560.2	630.1	680.0	693.3	629.4	544.6	483.6	433.0	386.8	348.2
52.5°	373.5	482.8	540.8	592.9	631.6	575.8	494.7	439.7	389.8	346.7	316.2
55°	322.9	404.7	457.5	514.8	558.0	521.5	446.4	392.8	349.7	313.9	287.9
57.5°	274.5	345.9	389.1	439.7	485.8	458.3	398.0	351.9	313.9	282.7	259.6
60°	233.6	291.6	325.1	364.5	421.8	402.5	352.6	310.2	279.7	251.5	232.1
62.5°	198.6	244.8	273.0	301.3	353.4	344.4	305.8	273.0	247.0	223.2	206.8
65°	162.9	200.9	223.2	247.7	289.4	293.1	261.9	238.8	215.0	194.2	179.3
67.5°	131.7	161.4	181.5	202.4	235.8	246.2	224.7	205.3	185.2	168.1	154.7
70°	106.4	127.2	142.1	158.5	186.0	198.6	187.5	174.1	157.7	143.6	131.7
72.5°	84.1	97.5	106.4	119.0	141.3	154.0	153.3	141.3	129.4	119.8	110.1
75°	61.7	72.2	79.6	87.8	105.6	117.5	120.5	115.3	103.4	96.0	88.5
77.5°	46.9	52.8	56.5	62.5	75.1	85.6	90.0	88.5	80.3	74.4	69.2
80°	35.7	37.2	38.7	40.9	51.3	61.0	64.0	63.2	58.8	56.5	50.6
82.5°	25.3	26.0	26.8	27.5	31.2	39.4	42.4	43.9	40.2	37.9	32.7
85°	14.9	15.6	15.6	17.1	17.9	20.1	25.3	25.3	24.5	21.6	20.8
87.5°	7.4	7.4	6.7	6.7	7.4	8.2	9.7	11.2	9.7	8.9	8.2
90°	7.7	6.8	6.3	5.7	4.4	3.1	1.8	0.5	1.8	3.1	4.4
92.5°	11.5	11.2	11.0	11.2	11.7	12.2	12.6	13.1	12.6	12.2	11.7
95°	17.9	17.1	16.7	18.6	22.5	26.3	30.2	34.0	30.2	26.3	22.5
97.5°	21.1	19.2	18.3	23.1	32.6	42.1	51.7	61.2	51.7	42.1	32.6
100°	23.9	21.9	20.9	28.9	44.8	60.7	76.7	92.6	76.7	60.7	44.8
102.5°	94.3	115.4	126.0	126.1	126.4	126.6	126.9	127.1	126.9	126.6	126.4
105°	127.1	158.8	174.7	173.0	169.5	166.0	162.5	159.0	162.5	166.0	169.5
107.5°	150.4	189.6	209.2	207.7	204.8	201.9	199.0	196.1	199.0	201.9	204.8
110°	192.2	225.8	242.6	241.4	239.0	236.5	234.1	231.7	234.1	236.5	239.0

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	271.6	273.5	274.5	273.5	271.4	269.3	267.2	265.1	267.2	269.3	271.4
115°	314.0	311.1	309.6	308.6	306.6	304.7	302.7	300.7	302.7	304.7	306.6
117.5°	345.0	343.0	342.0	340.8	338.5	336.2	333.8	331.5	333.8	336.2	338.5
120°	377.0	374.9	373.9	373.0	371.3	369.6	367.8	366.1	367.8	369.6	371.3
122.5°	407.2	404.9	403.7	402.8	400.9	399.0	397.2	395.3	397.2	399.0	400.9
125°	435.3	433.1	432.0	431.2	429.7	428.2	426.7	425.2	426.7	428.2	429.7
127.5°	462.3	460.6	459.7	458.9	457.2	455.6	453.9	452.3	453.9	455.6	457.2
130°	488.2	486.9	486.3	485.4	483.5	481.7	479.8	478.0	479.8	481.7	483.5
132.5°	512.8	511.5	510.9	510.1	508.6	507.1	505.6	504.1	505.6	507.1	508.6
135°	536.0	534.9	534.4	533.5	531.6	529.8	527.9	526.1	527.9	529.8	531.6
137.5°	557.1	556.0	555.4	554.7	553.3	551.9	550.5	549.1	550.5	551.9	553.3
140°	577.7	576.4	575.8	575.3	574.4	573.5	572.5	571.6	572.5	573.5	574.4
142.5°	596.4	594.9	594.1	593.7	592.9	592.0	591.2	590.4	591.2	592.0	592.9
145°	612.7	610.8	609.8	609.9	610.0	610.1	610.2	610.3	610.2	610.1	610.0
147.5°	629.0	627.0	626.0	626.2	626.5	626.8	627.2	627.5	627.2	626.8	626.5
150°	643.4	641.5	640.6	641.0	641.8	642.7	643.5	644.3	643.5	642.7	641.8
152.5°	656.8	655.1	654.2	654.7	655.6	656.5	657.5	658.4	657.5	656.5	655.6
155°	669.4	668.0	667.3	667.8	668.9	669.9	671.0	672.0	671.0	669.9	668.9
157.5°	680.4	679.3	678.8	679.3	680.2	681.1	682.1	683.0	682.1	681.1	680.2
160°	690.3	689.6	689.2	689.6	690.3	691.0	691.7	692.4	691.7	691.0	690.3
162.5°	698.5	697.9	697.6	697.9	698.6	699.3	700.0	700.7	700.0	699.3	698.6
165°	705.4	705.1	704.9	705.3	706.0	706.7	707.4	708.1	707.4	706.7	706.0
167.5°	711.2	710.9	710.7	711.0	711.7	712.4	713.1	713.8	713.1	712.4	711.7
170°	715.7	715.5	715.4	715.7	716.4	717.1	717.8	718.5	717.8	717.1	716.4
172.5°	718.9	718.6	718.5	718.9	719.6	720.3	721.0	721.7	721.0	720.3	719.6
175°	721.0	720.7	720.6	721.0	721.8	722.7	723.5	724.3	723.5	722.7	721.8
177.5°	721.9	721.8	721.7	722.1	722.9	723.7	724.5	725.3	724.5	723.7	722.9
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1058.6	1059.4	1061.6	1054.9	1044.5	1040.0	1026.6	1024.4	1022.2	1022.2	1024.4
5°	1034.8	1031.8	1032.6	1019.9	1005.1	996.1	977.5	980.5	970.8	964.9	966.4
7.5°	1008.8	1000.6	999.9	983.5	964.9	948.5	929.2	924.7	915.8	905.4	900.9
10°	976.0	970.1	958.9	940.3	916.5	903.1	877.1	861.5	859.2	843.6	837.7
12.5°	942.6	932.2	921.0	895.0	868.2	846.6	827.3	810.1	798.2	784.9	775.9
15°	903.9	891.2	878.6	851.1	819.8	798.2	769.2	743.9	709.0	681.4	665.8
17.5°	861.5	847.3	830.2	799.7	769.2	739.5	685.9	656.2	631.6	615.2	605.6
20°	817.6	802.0	784.9	754.4	701.5	649.5	619.7	596.6	581.8	565.4	553.5
22.5°	771.5	755.1	736.5	688.9	633.1	596.6	573.6	552.0	530.4	521.5	515.5
25°	728.3	713.4	689.6	624.9	581.0	547.5	521.5	507.4	496.2	484.3	473.1
27.5°	683.7	656.2	622.7	568.4	540.8	506.6	488.0	477.6	458.3	450.1	444.9
30°	630.1	599.6	567.6	528.9	496.9	473.1	456.0	438.9	427.8	419.6	410.7
32.5°	575.8	546.8	526.7	486.5	462.7	438.2	421.8	411.4	395.0	389.8	386.1
35°	528.9	504.4	486.5	453.8	431.5	409.2	397.3	381.6	371.2	361.6	355.6
37.5°	482.8	469.4	450.8	423.3	399.5	381.6	365.3	360.1	345.9	340.7	334.8
40°	450.8	430.7	415.1	391.3	371.2	351.9	341.5	329.6	319.9	311.7	309.5
42.5°	412.1	397.3	388.3	362.3	341.5	330.3	317.7	304.3	296.8	290.1	282.0
45°	383.1	369.7	357.1	336.3	317.7	303.5	292.4	283.4	270.8	267.8	255.2
47.5°	352.6	339.2	329.6	308.7	291.6	278.2	270.0	258.1	247.7	241.0	235.1
50°	322.1	311.0	302.0	284.2	269.3	255.2	244.0	232.1	227.6	216.5	212.8
52.5°	293.1	285.7	276.0	258.9	244.0	232.1	220.2	210.5	203.8	197.9	193.4
55°	268.6	256.7	252.2	233.6	220.9	208.3	197.9	191.9	183.8	180.0	176.3
57.5°	241.0	234.3	226.9	212.8	198.6	186.7	179.3	170.4	165.9	161.4	158.5
60°	217.2	207.6	201.6	189.7	177.1	165.9	159.2	152.5	146.6	142.8	136.9
62.5°	189.7	182.3	178.5	165.9	155.5	145.1	139.1	132.4	128.0	121.3	113.8
65°	165.9	159.9	155.5	145.1	135.4	125.7	119.8	111.6	105.6	101.9	101.2
67.5°	145.1	140.6	133.9	124.2	114.6	107.1	100.4	93.7	93.0	91.5	91.5
70°	122.0	117.5	113.8	103.4	95.2	87.0	85.6	83.3	81.1	80.3	78.9
72.5°	101.9	98.2	93.7	84.8	76.6	74.4	72.9	71.4	69.2	68.4	67.7
75°	82.6	77.4	74.4	66.2	64.0	62.5	61.0	58.8	57.3	56.5	55.1
77.5°	63.2	58.0	58.0	53.6	52.1	49.8	48.4	46.9	46.1	44.6	44.6
80°	44.6	44.6	43.1	40.9	38.7	37.9	35.7	35.0	34.2	35.0	33.5
82.5°	32.7	29.8	29.8	28.3	26.8	26.0	24.5	24.5	23.8	23.8	23.8
85°	18.6	18.6	17.9	16.4	15.6	15.6	14.9	14.9	14.1	14.1	13.4
87.5°	7.4	6.7	7.4	6.7	6.7	6.0	6.0	6.0	5.2	6.0	5.2
90°	5.7	6.3	6.8	7.7	8.6	9.6	10.5	11.1	11.7	12.2	12.8
92.5°	11.2	11.0	11.2	11.5	11.9	12.2	12.6	12.8	13.0	13.3	13.5
95°	18.6	16.7	17.1	17.9	18.8	19.6	20.4	21.0	21.6	22.1	22.7
97.5°	23.1	18.3	19.2	21.1	23.0	24.8	26.7	27.0	27.4	27.7	28.0
100°	28.9	20.9	21.9	23.9	25.8	27.8	29.8	30.7	31.7	32.6	33.5
102.5°	126.1	126.0	115.4	94.3	73.2	52.0	30.9	32.2	33.4	34.7	36.0
105°	173.0	174.7	158.8	127.1	95.4	63.6	31.9	33.2	34.5	35.8	37.1
107.5°	207.7	209.2	189.6	150.4	111.3	72.1	32.9	34.2	35.5	36.8	38.1
110°	241.4	242.6	225.8	192.2	158.7	125.1	91.5	79.9	68.3	56.6	45.0

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	273.5	274.5	273.5	271.6	269.6	267.7	265.7	215.6	165.5	115.4	65.3
115°	308.6	309.6	311.1	314.0	316.9	319.8	322.7	268.9	215.1	161.2	107.4
117.5°	340.8	342.0	343.0	345.0	346.9	348.9	350.9	334.3	317.7	301.0	284.4
120°	373.0	373.9	374.9	377.0	379.1	381.2	383.3	384.7	386.1	387.5	388.9
122.5°	402.8	403.7	404.9	407.2	409.5	411.9	414.2	414.9	415.6	416.3	417.0
125°	431.2	432.0	433.1	435.3	437.5	439.7	441.9	442.7	443.5	444.3	445.1
127.5°	458.9	459.7	460.6	462.3	464.0	465.8	467.5	468.7	469.8	471.0	472.1
130°	485.4	486.3	486.9	488.2	489.5	490.8	492.1	493.4	494.6	495.9	497.2
132.5°	510.1	510.9	511.5	512.8	514.1	515.4	516.7	517.7	518.8	519.8	520.9
135°	533.5	534.4	534.9	536.0	537.1	538.1	539.2	540.4	541.5	542.7	543.8
137.5°	554.7	555.4	556.0	557.1	558.3	559.4	560.6	561.8	562.9	564.1	565.2
140°	575.3	575.8	576.4	577.7	579.0	580.2	581.5	582.5	583.6	584.6	585.7
142.5°	593.7	594.1	594.9	596.4	597.9	599.4	600.9	601.8	602.7	603.6	604.5
145°	609.9	609.8	610.8	612.7	614.7	616.6	618.6	619.4	620.2	621.1	621.9
147.5°	626.2	626.0	627.0	629.0	630.9	632.9	634.9	635.5	636.1	636.6	637.2
150°	641.0	640.6	641.5	643.4	645.3	647.1	649.0	649.7	650.4	651.1	651.8
152.5°	654.7	654.2	655.1	656.8	658.5	660.3	662.0	662.7	663.4	664.1	664.8
155°	667.8	667.3	668.0	669.4	670.8	672.2	673.6	674.3	675.0	675.7	676.4
157.5°	679.3	678.8	679.3	680.4	681.4	682.5	683.5	684.3	685.1	685.9	686.7
160°	689.6	689.2	689.6	690.3	691.0	691.7	692.4	693.1	693.8	694.5	695.2
162.5°	697.9	697.6	697.9	698.5	699.0	699.6	700.2	701.0	701.8	702.7	703.5
165°	705.3	704.9	705.1	705.4	705.8	706.1	706.5	707.3	708.1	709.0	709.8
167.5°	711.0	710.7	710.9	711.2	711.5	711.9	712.2	713.0	713.8	714.7	715.5
170°	715.7	715.4	715.5	715.7	716.0	716.2	716.4	717.2	718.0	718.9	719.7
172.5°	718.9	718.5	718.6	718.9	719.1	719.4	719.6	720.4	721.2	722.0	722.8
175°	721.0	720.6	720.7	721.0	721.2	721.5	721.7	722.5	723.3	724.1	724.9
177.5°	722.1	721.7	721.8	721.9	722.0	722.1	722.2	723.0	723.8	724.6	725.4
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1024.4	1022.9	1018.4	1019.9	1017.7	1017.7	1016.2	1016.2	1016.2	1019.9	1017.7
5°	968.6	963.4	958.2	956.0	953.7	951.5	951.5	950.8	957.4	956.0	961.9
7.5°	899.4	897.9	887.5	887.5	883.8	882.3	886.0	886.8	887.5	889.0	892.7
10°	837.7	834.0	819.1	820.6	818.3	815.4	817.6	816.1	821.3	822.8	821.3
12.5°	764.8	758.1	741.7	733.5	724.6	717.9	726.1	720.1	741.0	746.9	763.3
15°	668.1	655.4	644.2	644.2	636.1	630.1	633.8	640.5	645.0	651.7	654.7
17.5°	603.3	598.1	589.2	584.0	581.8	579.5	579.5	582.5	592.2	591.4	597.4
20°	548.3	545.3	540.8	534.1	531.9	530.4	530.4	530.4	537.1	543.1	546.8
22.5°	510.3	508.1	505.1	496.2	491.7	490.3	494.0	496.2	501.4	505.9	509.6
25°	472.4	467.2	462.0	459.0	456.8	456.8	458.3	459.0	461.2	463.5	467.9
27.5°	441.2	437.4	430.0	421.8	421.8	419.6	421.1	422.6	427.8	435.2	438.9
30°	406.2	405.4	402.5	399.5	396.5	395.0	398.0	400.2	401.0	404.7	404.7
32.5°	380.9	375.7	370.5	367.5	366.0	365.3	366.0	369.0	369.0	373.5	378.7
35°	355.6	352.6	347.4	342.2	340.7	337.0	340.0	343.0	348.2	350.4	352.6
37.5°	328.1	324.4	322.1	320.6	317.7	318.4	316.2	320.6	325.1	324.4	325.8
40°	307.2	300.6	293.9	293.1	292.4	291.6	291.6	292.4	295.3	298.3	302.8
42.5°	280.5	278.2	272.3	266.3	264.8	263.4	261.9	264.8	270.8	276.0	278.2
45°	252.9	250.0	248.5	244.0	241.0	240.3	238.8	242.5	247.7	250.0	251.5
47.5°	227.6	226.9	222.4	223.2	220.9	221.7	220.9	223.2	223.2	225.4	226.9
50°	210.5	208.3	206.1	204.6	202.4	202.4	201.6	202.4	205.3	208.3	207.6
52.5°	193.4	189.7	189.0	188.2	186.7	188.2	186.0	186.7	189.7	191.2	190.4
55°	173.3	172.6	171.1	169.6	168.9	168.1	168.1	168.1	171.1	173.3	174.1
57.5°	157.7	154.0	151.0	151.0	148.0	147.3	148.8	149.5	151.8	153.3	154.7
60°	136.1	134.7	130.2	128.0	123.5	122.7	122.7	125.7	129.4	134.7	136.1
62.5°	113.1	110.8	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.8	110.8
65°	100.4	101.2	100.4	99.7	100.4	100.4	99.7	99.7	99.7	100.4	101.2
67.5°	90.0	89.3	90.0	89.3	88.5	88.5	87.8	88.5	89.3	90.0	90.0
70°	78.1	78.1	77.4	78.1	77.4	76.6	75.9	75.9	77.4	78.1	78.1
72.5°	67.0	67.0	66.2	66.2	64.7	64.7	65.5	64.7	64.7	67.0	67.0
75°	55.8	55.1	54.3	54.3	53.6	53.6	53.6	52.8	54.3	54.3	55.1
77.5°	43.9	43.9	43.9	43.1	43.1	42.4	42.4	43.1	43.1	43.1	43.9
80°	33.5	33.5	33.5	32.7	32.0	32.0	32.0	32.0	32.0	32.7	32.0
82.5°	23.1	23.1	23.1	23.1	23.1	22.3	22.3	22.3	23.1	23.1	22.3
85°	14.1	13.4	14.1	14.1	13.4	14.1	13.4	13.4	12.6	12.6	13.4
87.5°	6.0	5.2	4.5	4.5	5.2	4.5	4.5	4.5	5.2	4.5	4.5
90°	13.1	13.2	13.4	13.7	13.9	14.1	13.9	13.7	13.4	13.2	13.1
92.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.0	13.9	13.8	13.7	13.6
95°	23.0	22.9	22.8	22.7	22.6	22.5	22.6	22.7	22.8	22.9	23.0
97.5°	28.2	28.3	28.4	28.5	28.7	28.8	28.7	28.5	28.4	28.3	28.2
100°	34.0	34.1	34.3	34.6	34.8	35.0	34.8	34.6	34.3	34.1	34.0
102.5°	36.6	36.8	37.1	37.5	37.8	38.2	37.8	37.5	37.1	36.8	36.6
105°	37.7	37.9	38.4	38.8	39.3	39.7	39.3	38.8	38.4	37.9	37.7
107.5°	38.7	38.9	39.4	39.9	40.3	40.8	40.3	39.9	39.4	38.9	38.7
110°	39.2	39.4	39.9	40.4	40.8	41.3	40.8	40.4	39.9	39.4	39.2

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	40.3	40.5	40.8	41.1	41.5	41.8	41.5	41.1	40.8	40.5	40.3
115°	80.5	76.3	68.0	59.6	51.3	42.9	51.3	59.6	68.0	76.3	80.5
117.5°	276.1	260.9	230.4	200.0	169.5	139.1	169.5	200.0	230.4	260.9	276.1
120°	389.6	381.8	366.1	350.4	334.7	319.0	334.7	350.4	366.1	381.8	389.6
122.5°	417.3	417.4	417.5	417.6	417.7	417.8	417.7	417.6	417.5	417.4	417.3
125°	445.5	445.7	446.0	446.4	446.7	447.1	446.7	446.4	446.0	445.7	445.5
127.5°	472.7	472.8	472.9	473.0	473.2	473.3	473.2	473.0	472.9	472.8	472.7
130°	497.8	497.7	497.6	497.5	497.4	497.3	497.4	497.5	497.6	497.7	497.8
132.5°	521.4	521.3	521.2	521.1	521.0	520.9	521.0	521.1	521.2	521.3	521.4
135°	544.4	544.3	544.0	543.8	543.5	543.3	543.5	543.8	544.0	544.3	544.4
137.5°	565.8	565.6	565.3	565.0	564.6	564.3	564.6	565.0	565.3	565.6	565.8
140°	586.2	585.9	585.3	584.8	584.2	583.6	584.2	584.8	585.3	585.9	586.2
142.5°	605.0	604.7	604.1	603.6	603.0	602.4	603.0	603.6	604.1	604.7	605.0
145°	622.3	622.0	621.4	620.9	620.3	619.7	620.3	620.9	621.4	622.0	622.3
147.5°	637.5	637.3	636.8	636.3	635.9	635.4	635.9	636.3	636.8	637.3	637.5
150°	652.1	651.8	651.2	650.7	650.1	649.5	650.1	650.7	651.2	651.8	652.1
152.5°	665.2	664.8	664.0	663.1	662.3	661.5	662.3	663.1	664.0	664.8	665.2
155°	676.7	676.2	675.3	674.4	673.4	672.5	673.4	674.4	675.3	676.2	676.7
157.5°	687.1	686.6	685.7	684.8	683.9	683.0	683.9	684.8	685.7	686.6	687.1
160°	695.5	695.1	694.3	693.5	692.7	691.9	692.7	693.5	694.3	695.1	695.5
162.5°	703.9	703.4	702.3	701.3	700.2	699.2	700.2	701.3	702.3	703.4	703.9
165°	710.2	709.8	709.0	708.1	707.3	706.5	707.3	708.1	709.0	709.8	710.2
167.5°	715.9	715.4	714.3	713.3	712.2	711.2	712.2	713.3	714.3	715.4	715.9
170°	720.1	719.6	718.5	717.5	716.4	715.4	716.4	717.5	718.5	719.6	720.1
172.5°	723.2	722.7	721.6	720.6	719.5	718.5	719.5	720.6	721.6	722.7	723.2
175°	725.3	724.7	723.6	722.4	721.3	720.1	721.3	722.4	723.6	724.7	725.3
177.5°	725.8	725.3	724.2	723.2	722.1	721.1	722.1	723.2	724.2	725.3	725.8
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5	1070.5
2.5°	1019.9	1023.7	1022.2	1014.0	1022.2	1024.4	1028.9	1033.3	1036.3	1040.8	1044.5
5°	956.0	963.4	967.9	963.4	978.3	980.5	990.9	996.9	1005.8	1013.2	1019.2
7.5°	895.7	901.7	910.6	912.1	921.0	931.4	946.3	961.2	975.3	982.7	989.4
10°	831.0	841.4	854.8	851.8	865.2	881.6	897.2	921.0	932.9	946.3	958.2
12.5°	766.3	773.0	790.8	796.8	816.1	828.7	850.3	865.2	895.0	910.6	921.0
15°	653.2	680.7	703.0	729.8	755.1	778.9	798.2	825.0	851.1	863.0	880.1
17.5°	601.8	614.5	627.9	641.3	674.0	716.4	750.6	779.6	802.0	817.6	837.7
20°	548.3	560.9	575.8	588.5	608.5	639.0	681.4	731.3	758.1	774.4	793.8
22.5°	510.3	522.2	531.9	543.1	558.7	581.0	613.0	674.8	710.5	730.5	747.7
25°	469.4	484.3	494.7	502.9	515.5	540.1	566.1	601.1	665.1	680.7	704.5
27.5°	441.2	445.6	457.5	470.2	482.8	496.2	523.0	552.7	595.9	630.1	659.1
30°	407.7	418.8	430.0	435.2	446.4	465.7	482.1	514.1	547.5	574.3	609.3
32.5°	382.4	389.1	396.5	409.2	419.6	433.0	449.3	476.1	504.4	521.5	548.3
35°	354.1	358.6	374.2	379.4	389.8	403.2	419.6	440.4	470.9	484.3	503.6
37.5°	327.3	337.7	342.2	354.1	363.8	377.2	389.1	412.9	433.0	448.6	466.4
40°	306.5	311.0	319.1	329.6	337.7	348.2	363.0	380.2	401.7	414.4	430.0
42.5°	281.2	284.9	295.3	301.3	314.7	324.4	333.3	354.1	373.5	383.1	398.8
45°	253.7	262.6	269.3	281.2	288.6	300.6	311.7	326.6	344.4	355.6	364.5
47.5°	229.9	238.8	245.5	256.7	268.6	273.8	285.7	301.3	317.7	326.6	339.2
50°	210.5	213.5	226.2	231.4	244.0	254.4	262.6	276.0	293.9	299.1	309.5
52.5°	191.9	194.2	202.4	209.0	220.2	229.1	239.5	252.2	267.1	275.3	283.4
55°	175.6	177.1	180.8	188.2	195.7	206.8	216.5	228.4	241.0	250.0	257.4
57.5°	157.0	159.9	162.9	167.4	174.8	185.2	195.7	206.8	217.2	223.2	232.9
60°	135.4	139.9	145.1	150.3	155.5	162.9	174.8	185.2	194.9	200.1	207.6
62.5°	112.3	121.3	125.7	131.7	136.1	142.8	151.8	163.7	170.4	177.1	183.0
65°	101.2	101.9	102.7	108.6	116.8	123.5	131.7	140.6	151.0	155.5	159.9
67.5°	90.0	90.8	92.2	93.0	96.0	103.4	112.3	122.0	130.2	133.2	137.6
70°	78.9	78.9	81.8	82.6	83.3	84.1	91.5	101.2	108.6	112.3	117.5
72.5°	67.0	67.7	69.2	69.9	71.4	72.9	75.1	80.3	89.3	93.0	98.9
75°	55.1	55.8	56.5	57.3	59.5	60.3	62.5	65.5	69.2	73.6	77.4
77.5°	43.9	43.9	44.6	46.1	47.6	48.4	50.6	52.1	53.6	55.8	58.8
80°	32.7	33.5	33.5	35.0	35.0	35.7	36.5	38.7	40.2	41.7	43.1
82.5°	22.3	23.8	23.8	23.8	24.5	25.3	26.0	26.0	27.5	28.3	30.5
85°	13.4	14.1	14.1	14.1	13.4	14.9	14.9	15.6	15.6	15.6	16.4
87.5°	5.2	4.5	5.2	5.2	5.2	6.0	5.2	5.2	6.0	6.7	6.7
90°	12.8	12.2	11.7	11.1	10.5	9.6	8.6	7.7	6.8	6.3	5.7
92.5°	13.5	13.3	13.0	12.8	12.6	12.2	11.9	11.5	11.2	11.0	11.2
95°	22.7	22.1	21.6	21.0	20.4	19.6	18.8	17.9	17.1	16.7	18.6
97.5°	28.0	27.7	27.4	27.0	26.7	24.8	23.0	21.1	19.2	18.3	23.1
100°	33.5	32.6	31.7	30.7	29.8	27.8	25.8	23.9	21.9	20.9	28.9
102.5°	36.0	34.7	33.4	32.2	30.9	52.0	73.2	94.3	115.4	126.0	126.1
105°	37.1	35.8	34.5	33.2	31.9	63.6	95.4	127.1	158.8	174.7	173.0
107.5°	38.1	36.8	35.5	34.2	32.9	72.1	111.3	150.4	189.6	209.2	207.7
110°	45.0	56.6	68.3	79.9	91.5	125.1	158.7	192.2	225.8	242.6	241.4



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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	65.3	115.4	165.5	215.6	265.7	267.7	269.6	271.6	273.5	274.5	273.5
115°	107.4	161.2	215.1	268.9	322.7	319.8	316.9	314.0	311.1	309.6	308.6
117.5°	284.4	301.0	317.7	334.3	350.9	348.9	346.9	345.0	343.0	342.0	340.8
120°	388.9	387.5	386.1	384.7	383.3	381.2	379.1	377.0	374.9	373.9	373.0
122.5°	417.0	416.3	415.6	414.9	414.2	411.9	409.5	407.2	404.9	403.7	402.8
125°	445.1	444.3	443.5	442.7	441.9	439.7	437.5	435.3	433.1	432.0	431.2
127.5°	472.1	471.0	469.8	468.7	467.5	465.8	464.0	462.3	460.6	459.7	458.9
130°	497.2	495.9	494.6	493.4	492.1	490.8	489.5	488.2	486.9	486.3	485.4
132.5°	520.9	519.8	518.8	517.7	516.7	515.4	514.1	512.8	511.5	510.9	510.1
135°	543.8	542.7	541.5	540.4	539.2	538.1	537.1	536.0	534.9	534.4	533.5
137.5°	565.2	564.1	562.9	561.8	560.6	559.4	558.3	557.1	556.0	555.4	554.7
140°	585.7	584.6	583.6	582.5	581.5	580.2	579.0	577.7	576.4	575.8	575.3
142.5°	604.5	603.6	602.7	601.8	600.9	599.4	597.9	596.4	594.9	594.1	593.7
145°	621.9	621.1	620.2	619.4	618.6	616.6	614.7	612.7	610.8	609.8	609.9
147.5°	637.2	636.6	636.1	635.5	634.9	632.9	630.9	629.0	627.0	626.0	626.2
150°	651.8	651.1	650.4	649.7	649.0	647.1	645.3	643.4	641.5	640.6	641.0
152.5°	664.8	664.1	663.4	662.7	662.0	660.3	658.5	656.8	655.1	654.2	654.7
155°	676.4	675.7	675.0	674.3	673.6	672.2	670.8	669.4	668.0	667.3	667.8
157.5°	686.7	685.9	685.1	684.3	683.5	682.5	681.4	680.4	679.3	678.8	679.3
160°	695.2	694.5	693.8	693.1	692.4	691.7	691.0	690.3	689.6	689.2	689.6
162.5°	703.5	702.7	701.8	701.0	700.2	699.6	699.0	698.5	697.9	697.6	697.9
165°	709.8	709.0	708.1	707.3	706.5	706.1	705.8	705.4	705.1	704.9	705.3
167.5°	715.5	714.7	713.8	713.0	712.2	711.9	711.5	711.2	710.9	710.7	711.0
170°	719.7	718.9	718.0	717.2	716.4	716.2	716.0	715.7	715.5	715.4	715.7
172.5°	722.8	722.0	721.2	720.4	719.6	719.4	719.1	718.9	718.6	718.5	718.9
175°	724.9	724.1	723.3	722.5	721.7	721.5	721.2	721.0	720.7	720.6	721.0
177.5°	725.4	724.6	723.8	723.0	722.2	722.1	722.0	721.9	721.8	721.7	722.1
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1070.5	1070.5	1070.5	1070.5
2.5°	1051.2	1049.0	1062.3	1077.2
5°	1029.6	1033.3	1050.4	1071.3
7.5°	1007.3	1015.5	1035.6	1063.1
10°	976.0	990.9	1021.4	1049.7
12.5°	945.5	965.6	994.6	1028.1
15°	911.3	933.6	969.3	1009.5
17.5°	873.4	898.7	940.3	984.2
20°	833.2	866.7	910.6	958.2
22.5°	788.6	828.7	874.1	926.9
25°	745.4	789.3	834.7	895.7
27.5°	703.0	746.2	796.8	858.5
30°	660.6	700.0	754.4	820.6
32.5°	615.2	656.2	713.4	781.1
35°	573.6	614.5	668.1	735.0
37.5°	528.9	572.8	624.2	693.3
40°	476.9	528.2	578.0	644.2
42.5°	433.7	488.0	536.4	598.9
45°	399.5	450.8	491.0	552.0
47.5°	367.5	409.2	450.1	506.6
50°	337.0	369.0	411.4	462.0
52.5°	305.8	333.3	369.7	417.3
55°	277.5	303.5	336.3	372.7
57.5°	251.5	270.0	302.8	335.5
60°	222.4	241.8	267.1	294.6
62.5°	197.9	212.8	236.6	259.6
65°	171.8	186.0	203.8	225.4
67.5°	148.0	160.7	174.8	191.9
70°	126.5	136.1	146.6	161.4
72.5°	103.4	113.8	123.5	135.4
75°	84.8	89.3	97.5	105.6
77.5°	65.5	71.4	75.9	82.6
80°	46.9	52.1	53.6	58.8
82.5°	31.2	34.2	37.2	38.7
85°	17.9	19.3	22.3	23.1
87.5°	6.7	7.4	8.9	10.4
90°	4.4	3.1	1.8	0.5
92.5°	11.7	12.2	12.6	13.1
95°	22.5	26.3	30.2	34.0
97.5°	32.6	42.1	51.7	61.2
100°	44.8	60.7	76.7	92.6
102.5°	126.4	126.6	126.9	127.1
105°	169.5	166.0	162.5	159.0
107.5°	204.8	201.9	199.0	196.1
110°	239.0	236.5	234.1	231.7

TEST NUMBER: P1008415

CATALOG NUMBER: S122RDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	271.4	269.3	267.2	265.1
115°	306.6	304.7	302.7	300.7
117.5°	338.5	336.2	333.8	331.5
120°	371.3	369.6	367.8	366.1
122.5°	400.9	399.0	397.2	395.3
125°	429.7	428.2	426.7	425.2
127.5°	457.2	455.6	453.9	452.3
130°	483.5	481.7	479.8	478.0
132.5°	508.6	507.1	505.6	504.1
135°	531.6	529.8	527.9	526.1
137.5°	553.3	551.9	550.5	549.1
140°	574.4	573.5	572.5	571.6
142.5°	592.9	592.0	591.2	590.4
145°	610.0	610.1	610.2	610.3
147.5°	626.5	626.8	627.2	627.5
150°	641.8	642.7	643.5	644.3
152.5°	655.6	656.5	657.5	658.4
155°	668.9	669.9	671.0	672.0
157.5°	680.2	681.1	682.1	683.0
160°	690.3	691.0	691.7	692.4
162.5°	698.6	699.3	700.0	700.7
165°	706.0	706.7	707.4	708.1
167.5°	711.7	712.4	713.1	713.8
170°	716.4	717.1	717.8	718.5
172.5°	719.6	720.3	721.0	721.7
175°	721.8	722.7	723.5	724.3
177.5°	722.9	723.7	724.5	725.3
180°	722.7	722.7	722.7	722.7

(END OF REPORT)