

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: P1033023

Luminaire Tested: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033023
REPORT IS A COMBINATION OF REPORTS P1000623 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

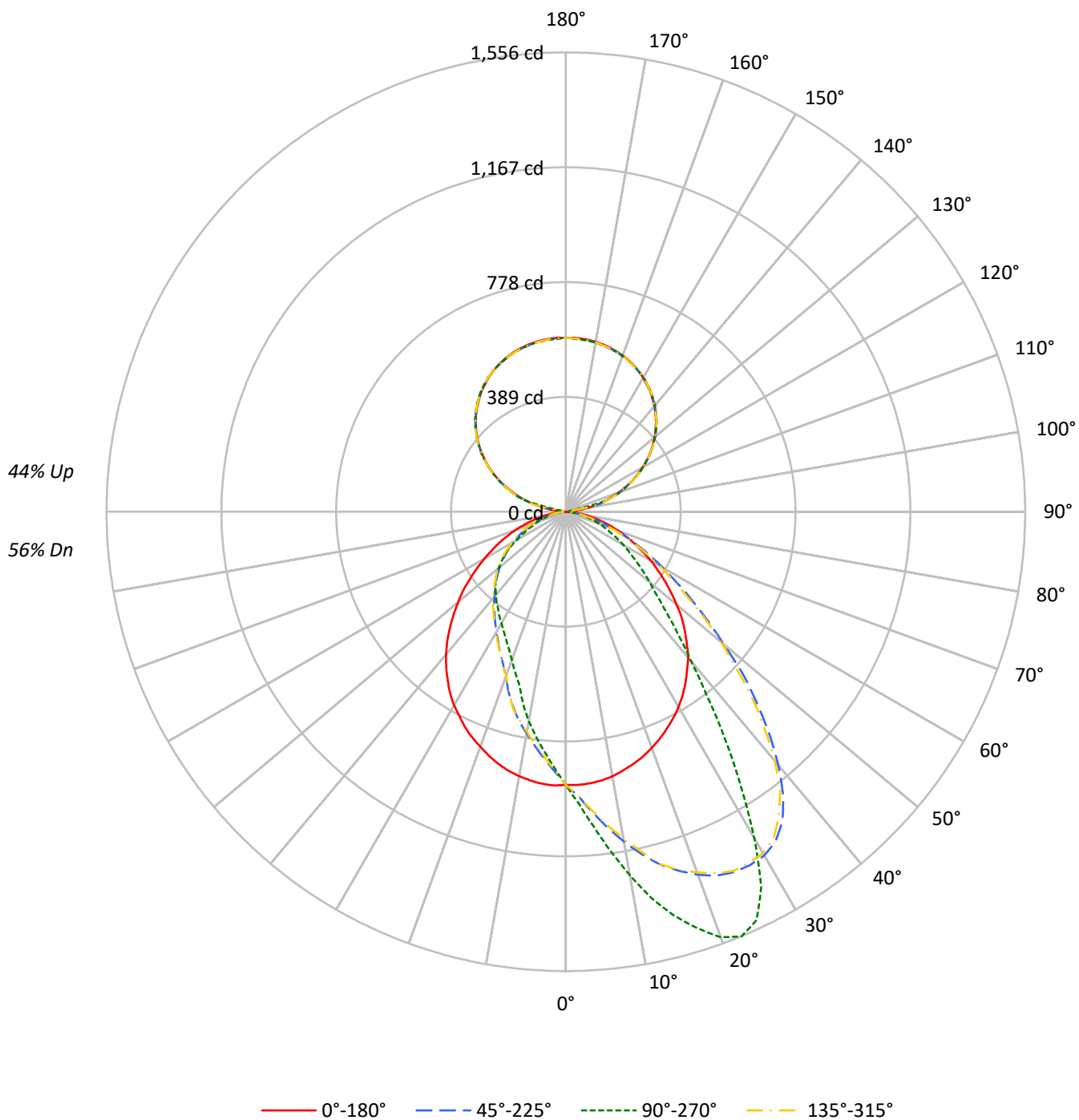
Lumens per Lamp: N/A
Luminaire Lumens: 4162.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1033023

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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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	100	96	92	88		93	89	86	83		77	75	72		66	64	63		55	54	53
2	91	84	78	73		85	78	73	69		68	64	61		58	56	53		49	47	46
3	84	74	67	61		77	69	63	58		60	56	52		52	48	45		44	42	39
4	77	66	58	52		71	62	55	50		54	49	44		47	43	39		40	37	34
5	71	59	51	45		65	55	48	43		49	43	39		42	38	34		36	33	30
6	65	53	45	40		60	50	43	38		44	38	34		38	34	30		33	29	27
7	60	48	40	35		56	45	38	33		40	34	30		35	30	27		30	27	24
8	56	44	36	31		52	41	34	30		37	31	27		32	27	24		28	24	22
9	52	40	33	28		49	38	31	27		34	28	24		29	25	22		26	22	20
10	49	37	30	25		46	35	28	24		31	26	22		27	23	20		24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7542	7542	7542	7542
5°	7542	8522	7554	6513
10°	7502	9824	7495	5665
15°	7412	11056	7412	4743
20°	7319	11988	7280	4177
25°	7205	12039	7172	3772
30°	7084	10237	7028	3494
35°	6912	7724	6825	3287
40°	6722	5598	6589	3125
45°	6406	4254	6247	2982
50°	6031	3438	5866	2772
55°	5627	2847	5443	2493
60°	5220	2408	4987	2073
65°	4708	1961	4558	1648
70°	4239	1590	4040	1337
75°	3715	1146	3458	980
80°	3064	760	2789	720
85°	2227	390	1841	390

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 9442 cd/sqm

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.2
10°-20°	270.5	6.5
20°-30°	423.6	10.2
30°-40°	470.4	11.3
40°-50°	416.9	10.0
50°-60°	324.9	7.8
60°-70°	212.5	5.1
70°-80°	104.3	2.5
80°-90°	26.6	0.6
90°-100°	19.6	0.5
100°-110°	128.8	3.1
110°-120°	245.9	5.9
120°-130°	312.2	7.5
130°-140°	333.9	8.0
140°-150°	312.3	7.5
150°-160°	251.8	6.1
160°-170°	162.4	3.9
170°-180°	56.0	1.3
0°-30°	783.6	18.8
0°-40°	1254.1	30.1
0°-60°	1995.8	48.0
0°-90°	2339.2	56.2
90°-120°	394.2	9.5
90°-150°	1352.6	32.5
90°-180°	1823.0	43.8
0°-180°	4162.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	925	925	925	925	925	
5°	923	1069	925	817	923	88
15°	884	1416	884	607	884	249
25°	810	1527	806	478	810	373
35°	706	940	698	400	706	442
45°	569	481	555	337	569	439
55°	410	287	396	251	410	367
65°	257	168	249	141	257	256
75°	129	78	120	66	129	137
85°	31	19	25	19	31	34
90°	1	13	1	13	1	3
95°	24	13	24	13	24	30
105°	133	126	133	126	133	139
115°	248	249	248	249	248	244
125°	348	351	348	351	348	311
135°	432	435	432	435	432	333
145°	498	500	498	500	498	311
155°	546	545	546	545	546	252
165°	576	573	576	573	576	163
175°	589	586	589	586	589	56
180°	589	589	589	589	589	

TEST NUMBER: P1033023

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	926.4	934.6	939.0	942.8	950.2	953.2	959.2	960.7	966.6	965.9	963.6
5°	923.4	937.6	948.0	959.2	972.6	980.0	988.2	1000.2	1006.1	1014.3	1019.5
7.5°	918.2	937.6	954.7	971.8	993.4	1005.4	1015.8	1034.4	1050.1	1063.5	1078.4
10°	910.0	934.6	959.9	983.0	1012.8	1027.0	1042.6	1070.2	1091.8	1110.5	1134.3
12.5°	897.3	931.6	959.9	991.2	1029.2	1048.6	1069.5	1102.3	1127.6	1158.2	1188.0
15°	883.9	921.9	959.2	1000.2	1043.4	1065.7	1086.6	1130.6	1169.3	1204.4	1237.2
17.5°	869.0	910.7	951.7	997.2	1049.3	1076.9	1101.5	1154.4	1196.9	1242.4	1275.2
20°	851.1	896.6	943.5	994.2	1053.1	1083.6	1111.2	1171.6	1218.5	1267.7	1308.7
22.5°	831.7	880.9	932.3	987.5	1048.6	1082.1	1114.2	1179.0	1233.4	1278.9	1334.0
25°	810.1	862.3	915.2	973.3	1041.9	1078.4	1111.2	1175.3	1233.4	1293.0	1346.7
27.5°	787.8	841.4	896.6	957.7	1027.7	1063.5	1100.8	1162.6	1230.4	1295.3	1349.7
30°	763.2	815.3	873.5	931.6	1006.1	1041.9	1079.9	1147.0	1220.8	1285.6	1344.5
32.5°	736.3	790.0	845.1	905.5	978.5	1017.3	1052.3	1128.3	1203.6	1267.7	1322.9
35°	706.5	757.2	809.4	871.2	943.5	978.5	1020.3	1099.3	1175.3	1243.1	1278.9
37.5°	674.5	722.9	771.4	832.5	901.8	944.3	985.3	1065.0	1145.5	1190.9	1209.6
40°	644.7	687.1	729.6	788.5	858.6	902.5	944.3	1027.0	1097.8	1132.8	1118.7
42.5°	606.7	650.6	688.6	743.0	813.8	854.8	897.3	983.0	1040.4	1054.6	1019.5
45°	569.4	605.9	642.4	695.3	769.9	804.9	850.4	930.1	977.8	965.1	913.7
47.5°	532.9	562.7	597.0	648.4	715.5	757.2	799.7	869.0	902.5	884.6	813.1
50°	489.6	519.5	555.2	599.9	664.8	705.0	738.6	802.7	828.0	784.0	697.6
52.5°	448.7	474.7	505.3	547.0	608.9	645.4	681.9	737.1	745.3	694.6	603.7
55°	409.9	430.8	462.8	496.4	553.0	591.7	617.1	664.0	661.8	598.5	520.2
57.5°	369.7	389.0	410.6	445.7	499.3	528.4	556.0	597.0	575.4	521.7	444.2
60°	333.9	345.1	366.7	400.2	445.7	471.0	492.6	515.0	496.4	438.2	378.6
62.5°	294.4	307.1	322.7	349.5	389.8	413.6	429.3	439.0	419.6	374.9	320.5
65°	257.1	268.3	284.7	308.5	339.1	357.0	365.2	371.9	361.5	310.8	267.6
67.5°	223.6	231.0	245.9	261.6	294.4	298.9	310.0	313.0	292.1	253.4	219.1
70°	190.0	197.5	204.2	222.8	237.7	245.9	248.2	248.2	227.3	202.0	173.6
72.5°	158.7	163.2	169.9	182.6	190.8	196.8	199.7	196.0	176.6	155.8	134.9
75°	128.9	131.2	137.1	145.3	152.0	149.8	149.1	144.6	130.4	115.5	103.6
77.5°	99.1	100.6	107.3	109.6	109.6	111.8	108.8	104.3	92.4	81.2	76.0
80°	74.5	76.8	77.5	79.0	77.5	77.5	75.3	67.8	61.9	56.6	52.9
82.5°	51.4	52.9	53.7	51.4	52.9	50.7	47.0	41.7	38.0	37.3	35.8
85°	30.6	31.3	30.6	30.6	28.3	27.6	24.6	23.8	22.4	22.4	21.6
87.5°	14.9	14.2	12.7	11.2	11.2	10.4	11.2	9.7	11.2	10.4	9.7
90°	1.3	2.4	3.5	4.6	5.7	6.2	6.6	7.4	8.1	8.9	9.7
92.5°	6.6	6.4	6.2	6.0	5.8	5.7	6.1	6.9	7.7	8.5	9.3
95°	24.2	20.9	17.6	14.3	11.0	9.3	9.3	9.4	9.5	9.6	9.7
97.5°	46.3	48.5	50.6	52.8	54.9	56.0	50.9	40.6	30.3	20.0	9.7
100°	72.3	74.1	75.8	77.6	79.3	80.2	73.4	59.9	46.4	32.9	19.4
102.5°	101.3	102.5	103.7	104.8	106.0	106.6	107.2	108.4	109.5	110.7	111.9
105°	132.6	133.2	133.8	134.4	135.0	135.3	135.5	136.0	136.5	137.0	137.5
107.5°	161.3	161.6	161.9	162.2	162.5	162.6	162.9	163.6	164.3	165.0	165.7
110°	190.3	190.6	190.9	191.2	191.5	191.7	192.0	192.6	193.1	193.7	194.3

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	218.5	219.1	219.7	220.3	220.9	221.2	221.3	221.5	221.7	221.9	222.1
115°	247.6	247.9	248.2	248.5	248.8	248.9	248.9	248.8	248.7	248.6	248.5
117.5°	273.6	274.0	274.4	274.8	275.2	275.4	275.5	275.8	276.1	276.4	276.7
120°	300.0	300.4	300.8	301.2	301.6	301.8	301.8	301.7	301.6	301.5	301.4
122.5°	324.7	324.9	325.1	325.3	325.5	325.6	325.7	325.9	326.1	326.3	326.5
125°	348.1	348.5	348.9	349.2	349.6	349.8	349.7	349.5	349.3	349.1	348.9
127.5°	370.5	370.6	370.7	370.8	370.9	371.0	371.2	371.7	372.2	372.7	373.2
130°	392.1	392.2	392.3	392.4	392.5	392.6	392.7	393.0	393.3	393.6	393.9
132.5°	412.0	412.2	412.4	412.5	412.7	412.8	413.0	413.4	413.8	414.2	414.6
135°	431.8	431.7	431.6	431.5	431.4	431.3	431.5	431.9	432.3	432.7	433.1
137.5°	449.4	449.4	449.4	449.4	449.4	449.4	449.6	450.1	450.6	451.1	451.6
140°	466.6	466.8	467.0	467.2	467.4	467.5	467.6	467.8	467.9	468.1	468.3
142.5°	482.0	482.4	482.8	483.2	483.6	483.8	483.8	483.9	484.0	484.1	484.2
145°	497.9	498.2	498.5	498.8	499.1	499.2	499.2	499.2	499.2	499.2	499.2
147.5°	510.2	510.8	511.4	511.9	512.5	512.8	512.8	512.7	512.6	512.5	512.4
150°	523.9	524.3	524.7	525.0	525.4	525.6	525.6	525.5	525.4	525.3	525.2
152.5°	535.3	535.6	535.9	536.2	536.5	536.6	536.5	536.3	536.2	536.0	535.8
155°	545.9	546.0	546.1	546.2	546.3	546.3	546.2	545.9	545.6	545.3	545.0
157.5°	555.1	555.1	555.1	555.1	555.1	555.1	554.9	554.5	554.2	553.8	553.4
160°	563.1	562.8	562.5	562.2	561.9	561.8	561.7	561.6	561.5	561.4	561.3
162.5°	570.1	569.7	569.3	569.0	568.6	568.4	568.3	568.2	568.1	568.0	567.9
165°	575.9	575.4	574.9	574.4	573.9	573.6	573.6	573.6	573.6	573.6	573.6
167.5°	580.7	580.2	579.7	579.2	578.7	578.5	578.5	578.4	578.3	578.2	578.1
170°	584.7	584.1	583.5	582.9	582.3	582.0	582.1	582.2	582.3	582.4	582.5
172.5°	587.3	586.7	586.1	585.6	585.0	584.7	584.7	584.8	584.9	585.0	585.1
175°	589.1	588.5	587.9	587.3	586.7	586.4	586.5	586.6	586.7	586.8	586.9
177.5°	590.4	589.7	589.0	588.3	587.6	587.3	587.4	587.6	587.8	588.0	588.2
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	969.6	977.8	978.5	986.0	983.8	980.0	986.7	982.3	991.2	988.2	992.0
5°	1026.2	1037.4	1047.1	1053.1	1063.5	1061.3	1072.4	1068.7	1076.9	1068.7	1079.2
7.5°	1092.6	1111.2	1120.9	1136.5	1141.0	1141.8	1155.2	1158.2	1163.4	1158.2	1164.1
10°	1157.4	1179.8	1202.1	1214.8	1223.0	1234.2	1246.1	1251.3	1255.0	1249.8	1253.6
12.5°	1216.3	1251.3	1275.9	1301.2	1307.2	1316.9	1329.6	1328.1	1343.0	1340.0	1346.7
15°	1270.7	1309.4	1339.3	1359.4	1375.8	1384.0	1407.8	1409.3	1408.6	1416.0	1411.5
17.5°	1319.1	1351.9	1394.4	1420.5	1440.6	1440.6	1454.0	1481.6	1479.4	1478.6	1483.1
20°	1358.6	1395.9	1435.4	1479.4	1495.8	1498.7	1517.4	1531.5	1533.8	1533.8	1533.8
22.5°	1388.4	1432.4	1474.9	1506.2	1518.9	1529.3	1545.7	1554.6	1557.6	1556.1	1557.6
25°	1403.4	1445.1	1488.3	1516.6	1524.1	1530.0	1531.5	1536.8	1536.0	1527.1	1532.3
27.5°	1406.3	1446.6	1474.9	1482.3	1478.6	1474.9	1451.0	1453.3	1446.6	1433.2	1438.4
30°	1392.9	1414.5	1413.8	1390.7	1384.0	1368.3	1346.7	1314.7	1288.6	1277.4	1281.1
32.5°	1344.5	1344.5	1317.6	1265.5	1242.4	1214.1	1175.3	1146.2	1111.9	1104.5	1118.7
35°	1277.4	1239.4	1190.2	1121.6	1086.6	1065.7	998.7	977.8	948.7	940.5	947.2
37.5°	1173.1	1109.7	1038.2	974.1	944.3	907.0	848.1	818.3	797.4	783.3	790.0
40°	1056.1	979.3	904.8	825.8	793.0	762.4	718.4	691.6	658.1	659.6	661.8
42.5°	944.3	854.1	770.6	697.6	666.3	640.9	610.4	577.6	565.7	561.9	558.2
45°	825.8	729.6	651.4	597.0	568.6	544.8	516.5	497.8	483.7	480.7	484.4
47.5°	714.0	632.7	558.2	507.5	484.4	472.5	450.1	433.0	424.1	416.6	421.1
50°	612.6	536.6	477.0	434.5	418.1	409.9	389.0	380.1	371.1	368.9	368.2
52.5°	529.1	464.3	412.9	378.6	365.9	361.5	345.8	333.1	325.7	327.9	329.4
55°	453.1	398.0	357.7	330.2	319.7	314.5	303.3	294.4	289.2	286.9	288.4
57.5°	386.1	338.4	309.3	286.9	278.7	276.5	264.6	261.6	257.9	255.6	255.6
60°	324.9	291.4	264.6	251.9	243.0	240.7	231.8	228.1	227.3	225.1	223.6
62.5°	273.5	245.9	227.3	213.9	210.2	209.4	203.5	199.0	196.8	195.3	195.3
65°	228.8	208.7	193.0	183.3	180.4	178.9	172.2	170.7	169.2	167.7	166.9
67.5°	190.8	172.9	161.7	155.0	151.3	152.0	148.3	145.3	145.3	144.6	143.8
70°	154.3	143.1	133.4	129.7	128.2	126.7	125.2	123.0	122.2	122.2	122.2
72.5°	121.5	114.0	108.8	106.6	105.1	103.6	102.1	102.1	102.1	101.4	101.4
75°	93.2	90.2	86.5	84.2	84.2	85.7	83.5	81.2	79.0	77.5	78.3
77.5°	70.1	68.6	66.3	62.6	63.3	61.9	61.9	60.4	61.1	61.1	59.6
80°	51.4	49.2	48.4	46.2	47.0	46.2	45.5	45.5	44.0	44.0	44.0
82.5°	35.8	33.5	33.5	32.8	32.0	32.0	31.3	31.3	32.0	30.6	30.6
85°	21.6	20.9	20.9	19.4	19.4	19.4	19.4	20.1	19.4	18.6	18.6
87.5°	9.7	10.4	9.7	8.9	8.9	8.9	8.2	8.2	7.5	8.2	8.2
90°	10.3	10.9	11.4	12.0	12.3	12.4	12.6	12.8	13.0	13.2	13.0
92.5°	9.9	10.5	11.0	11.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9
95°	10.3	10.9	11.4	12.0	12.3	12.4	12.5	12.6	12.7	12.8	12.7
97.5°	10.2	10.7	11.2	11.7	11.9	11.9	12.0	12.1	12.2	12.3	12.2
100°	17.7	16.1	14.4	12.7	11.9	11.9	12.0	12.1	12.2	12.3	12.2
102.5°	89.9	67.9	45.8	23.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
105°	138.4	139.2	140.1	141.0	141.4	139.6	136.1	132.6	129.1	125.6	129.1
107.5°	166.2	166.7	167.2	167.7	167.9	168.1	168.5	168.8	169.2	169.6	169.2
110°	194.5	194.7	194.9	195.1	195.2	195.3	195.6	195.9	196.2	196.5	196.2

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	222.0	221.9	221.8	221.7	221.6	221.8	222.2	222.6	223.0	223.4	223.0
115°	248.7	248.9	249.1	249.3	249.4	249.4	249.4	249.4	249.4	249.4	249.4
117.5°	276.6	276.5	276.4	276.3	276.2	276.2	276.2	276.2	276.2	276.2	276.2
120°	301.6	301.8	301.9	302.1	302.2	302.1	301.9	301.8	301.6	301.4	301.6
122.5°	326.6	326.7	326.8	326.9	326.9	326.8	326.6	326.4	326.2	326.0	326.2
125°	349.2	349.5	349.8	350.1	350.3	350.3	350.4	350.5	350.6	350.7	350.6
127.5°	373.1	373.0	372.9	372.8	372.7	372.7	372.6	372.5	372.4	372.3	372.4
130°	394.0	394.1	394.2	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3
132.5°	414.7	414.8	414.9	415.0	415.0	415.0	414.9	414.8	414.7	414.6	414.7
135°	433.3	433.5	433.7	433.9	434.0	434.1	434.3	434.5	434.7	434.9	434.7
137.5°	451.8	452.0	452.2	452.4	452.5	452.4	452.3	452.2	452.1	452.0	452.1
140°	468.6	468.9	469.2	469.5	469.7	469.7	469.8	469.9	470.0	470.1	470.0
142.5°	484.4	484.6	484.8	485.0	485.1	485.1	485.1	485.1	485.1	485.1	485.1
145°	499.3	499.4	499.5	499.6	499.6	499.7	499.9	500.1	500.3	500.5	500.3
147.5°	512.5	512.6	512.7	512.8	512.8	512.9	513.0	513.1	513.2	513.3	513.2
150°	525.2	525.2	525.2	525.2	525.2	525.2	525.3	525.4	525.5	525.6	525.5
152.5°	536.0	536.2	536.3	536.5	536.6	536.6	536.5	536.4	536.3	536.2	536.3
155°	545.4	545.8	546.2	546.6	546.8	546.6	546.3	546.0	545.7	545.4	545.7
157.5°	553.9	554.4	554.9	555.4	555.6	555.4	554.9	554.4	553.9	553.4	553.9
160°	561.9	562.5	563.1	563.7	564.0	563.7	563.1	562.5	561.9	561.3	561.9
162.5°	568.5	569.1	569.7	570.3	570.6	570.3	569.6	568.9	568.2	567.5	568.2
165°	574.4	575.2	576.0	576.8	577.2	576.8	575.9	575.0	574.1	573.2	574.1
167.5°	579.0	579.8	580.7	581.6	582.0	581.5	580.5	579.6	578.6	577.6	578.6
170°	583.3	584.1	584.8	585.6	586.0	585.5	584.5	583.6	582.6	581.6	582.6
172.5°	585.9	586.7	587.4	588.2	588.6	588.1	587.0	585.9	584.9	583.8	584.9
175°	587.8	588.6	589.5	590.4	590.8	590.2	589.0	587.9	586.7	585.5	586.7
177.5°	589.0	589.8	590.5	591.3	591.7	591.1	589.9	588.8	587.6	586.4	587.6
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	994.2	989.0	988.2	988.2	980.0	984.5	975.6	965.9	961.4	961.4	953.2
5°	1076.9	1071.7	1066.5	1058.3	1058.3	1053.8	1039.7	1025.5	1015.1	1006.1	996.4
7.5°	1161.9	1156.7	1141.8	1133.6	1138.0	1129.1	1110.5	1086.6	1068.7	1054.6	1034.4
10°	1254.3	1240.1	1232.7	1228.2	1212.6	1202.9	1181.3	1146.2	1123.9	1105.2	1079.2
12.5°	1329.6	1334.0	1305.7	1308.0	1292.3	1278.9	1245.4	1211.8	1178.3	1152.2	1113.4
15°	1410.8	1397.4	1380.2	1366.8	1361.6	1345.2	1316.9	1272.2	1235.7	1194.7	1150.7
17.5°	1474.9	1464.5	1448.1	1435.4	1424.2	1384.7	1360.9	1321.4	1271.4	1231.2	1177.5
20°	1529.3	1519.6	1496.5	1488.3	1468.2	1439.9	1405.6	1344.5	1299.8	1255.8	1203.6
22.5°	1552.4	1542.7	1522.6	1512.2	1499.5	1471.9	1439.1	1381.0	1325.8	1270.7	1215.5
25°	1533.0	1533.0	1523.3	1519.6	1508.4	1483.8	1450.3	1401.1	1342.2	1282.6	1217.0
27.5°	1439.1	1457.8	1464.5	1468.2	1468.2	1468.9	1445.8	1398.1	1340.7	1282.6	1214.1
30°	1303.5	1334.8	1362.4	1370.6	1384.7	1400.4	1410.1	1387.0	1335.5	1274.4	1205.9
32.5°	1132.8	1173.1	1224.5	1237.2	1256.5	1303.5	1329.6	1339.3	1310.9	1257.3	1184.2
35°	962.9	1013.6	1044.9	1083.6	1101.5	1170.8	1229.0	1264.0	1257.3	1225.2	1158.9
37.5°	814.6	843.6	881.7	922.6	958.4	1024.8	1097.0	1164.9	1192.4	1176.8	1126.9
40°	672.2	706.5	752.0	785.5	810.1	876.4	965.9	1039.7	1100.0	1109.7	1079.2
42.5°	571.6	605.9	633.5	670.0	689.4	753.5	832.5	924.9	996.4	1034.4	1021.0
45°	494.1	515.0	537.3	558.2	582.1	638.7	711.7	813.1	893.6	947.2	952.5
47.5°	426.3	444.9	464.3	483.7	497.1	541.1	608.1	690.9	778.8	852.6	881.7
50°	378.6	387.5	401.7	412.9	428.5	466.5	520.2	591.7	684.9	764.7	802.7
52.5°	331.6	342.8	354.0	363.7	374.1	401.0	450.1	512.0	592.5	674.5	721.4
55°	292.1	301.1	311.5	318.2	324.2	348.0	385.3	433.0	502.3	579.8	638.0
57.5°	260.1	263.8	272.8	276.5	283.2	302.6	329.4	371.9	427.8	503.1	550.8
60°	225.1	232.5	239.2	242.2	247.4	260.8	279.5	319.0	367.4	422.6	477.0
62.5°	196.8	199.7	205.0	208.7	212.4	226.6	242.2	272.0	308.5	354.8	404.7
65°	170.7	172.2	175.1	180.4	182.6	193.0	202.0	223.6	257.9	292.9	342.8
67.5°	143.8	145.3	149.1	152.0	154.3	161.0	170.7	186.3	205.0	243.7	271.3
70°	123.0	123.0	125.2	126.7	128.9	131.9	137.1	149.1	166.2	190.8	216.1
72.5°	102.8	102.8	102.8	105.1	105.1	107.3	110.3	118.5	130.4	149.8	166.2
75°	79.7	80.5	82.0	82.0	82.7	85.7	87.9	90.2	96.1	108.8	123.7
77.5°	60.4	61.9	62.6	61.1	62.6	62.6	65.6	68.6	71.5	75.3	86.5
80°	44.7	45.5	44.0	44.7	44.7	46.2	47.7	47.0	48.4	52.9	55.9
82.5°	29.8	30.6	30.6	30.6	30.6	32.8	32.8	32.0	32.8	33.5	34.3
85°	18.6	17.9	17.9	18.6	17.9	17.9	18.6	19.4	18.6	19.4	20.1
87.5°	8.2	8.2	8.2	8.2	7.5	7.5	8.2	7.5	8.2	7.5	6.7
90°	12.8	12.6	12.4	12.3	12.0	11.4	10.9	10.3	9.7	8.9	8.1
92.5°	11.9	11.9	11.9	11.9	11.6	11.0	10.5	9.9	9.3	8.5	7.7
95°	12.6	12.5	12.4	12.3	12.0	11.4	10.9	10.3	9.7	9.6	9.5
97.5°	12.1	12.0	11.9	11.9	11.7	11.2	10.7	10.2	9.7	20.0	30.3
100°	12.1	12.0	11.9	11.9	12.7	14.4	16.1	17.7	19.4	32.9	46.4
102.5°	12.8	12.8	12.8	12.8	23.8	45.8	67.9	89.9	111.9	110.7	109.5
105°	132.6	136.1	139.6	141.4	141.0	140.1	139.2	138.4	137.5	137.0	136.5
107.5°	168.8	168.5	168.1	167.9	167.7	167.2	166.7	166.2	165.7	165.0	164.3
110°	195.9	195.6	195.3	195.2	195.1	194.9	194.7	194.5	194.3	193.7	193.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	222.6	222.2	221.8	221.6	221.7	221.8	221.9	222.0	222.1	221.9	221.7
115°	249.4	249.4	249.4	249.4	249.3	249.1	248.9	248.7	248.5	248.6	248.7
117.5°	276.2	276.2	276.2	276.2	276.3	276.4	276.5	276.6	276.7	276.4	276.1
120°	301.8	301.9	302.1	302.2	302.1	301.9	301.8	301.6	301.4	301.5	301.6
122.5°	326.4	326.6	326.8	326.9	326.9	326.8	326.7	326.6	326.5	326.3	326.1
125°	350.5	350.4	350.3	350.3	350.1	349.8	349.5	349.2	348.9	349.1	349.3
127.5°	372.5	372.6	372.7	372.7	372.8	372.9	373.0	373.1	373.2	372.7	372.2
130°	394.3	394.3	394.3	394.3	394.3	394.2	394.1	394.0	393.9	393.6	393.3
132.5°	414.8	414.9	415.0	415.0	415.0	414.9	414.8	414.7	414.6	414.2	413.8
135°	434.5	434.3	434.1	434.0	433.9	433.7	433.5	433.3	433.1	432.7	432.3
137.5°	452.2	452.3	452.4	452.5	452.4	452.2	452.0	451.8	451.6	451.1	450.6
140°	469.9	469.8	469.7	469.7	469.5	469.2	468.9	468.6	468.3	468.1	467.9
142.5°	485.1	485.1	485.1	485.1	485.0	484.8	484.6	484.4	484.2	484.1	484.0
145°	500.1	499.9	499.7	499.6	499.6	499.5	499.4	499.3	499.2	499.2	499.2
147.5°	513.1	513.0	512.9	512.8	512.8	512.7	512.6	512.5	512.4	512.5	512.6
150°	525.4	525.3	525.2	525.2	525.2	525.2	525.2	525.2	525.2	525.3	525.4
152.5°	536.4	536.5	536.6	536.6	536.5	536.3	536.2	536.0	535.8	536.0	536.2
155°	546.0	546.3	546.6	546.8	546.6	546.2	545.8	545.4	545.0	545.3	545.6
157.5°	554.4	554.9	555.4	555.6	555.4	554.9	554.4	553.9	553.4	553.8	554.2
160°	562.5	563.1	563.7	564.0	563.7	563.1	562.5	561.9	561.3	561.4	561.5
162.5°	568.9	569.6	570.3	570.6	570.3	569.7	569.1	568.5	567.9	568.0	568.1
165°	575.0	575.9	576.8	577.2	576.8	576.0	575.2	574.4	573.6	573.6	573.6
167.5°	579.6	580.5	581.5	582.0	581.6	580.7	579.8	579.0	578.1	578.2	578.3
170°	583.6	584.5	585.5	586.0	585.6	584.8	584.1	583.3	582.5	582.4	582.3
172.5°	585.9	587.0	588.1	588.6	588.2	587.4	586.7	585.9	585.1	585.0	584.9
175°	587.9	589.0	590.2	590.8	590.4	589.5	588.6	587.8	586.9	586.8	586.7
177.5°	588.8	589.9	591.1	591.7	591.3	590.5	589.8	589.0	588.2	588.0	587.8
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	948.7	945.0	942.8	942.0	935.3	931.6	929.4	927.9	925.6	919.7	914.5
5°	984.5	974.1	968.9	962.9	952.5	940.5	930.8	924.9	917.4	905.5	894.3
7.5°	1018.0	1002.4	992.0	983.8	965.9	946.5	930.8	918.2	904.0	887.6	872.0
10°	1053.1	1027.7	1014.3	1001.6	975.6	950.2	927.9	909.2	889.1	867.5	850.4
12.5°	1080.6	1047.1	1032.2	1014.3	982.3	952.5	924.1	898.8	872.7	849.6	825.0
15°	1112.7	1071.0	1053.8	1030.7	986.7	948.0	911.5	883.9	857.1	822.8	796.7
17.5°	1131.3	1082.9	1058.3	1038.2	990.5	943.5	901.0	866.8	835.5	801.2	773.6
20°	1150.0	1094.8	1067.2	1038.9	982.3	932.3	887.6	846.6	813.8	776.6	748.3
22.5°	1155.9	1091.8	1062.8	1036.7	977.1	921.2	869.7	828.0	790.0	752.7	720.7
25°	1155.9	1091.1	1056.8	1023.3	960.7	903.3	851.8	806.4	763.9	726.6	694.6
27.5°	1144.0	1076.2	1040.4	1009.8	945.0	883.1	830.2	780.3	739.3	702.0	665.5
30°	1129.1	1054.6	1018.8	982.3	919.7	860.8	803.4	757.2	714.0	671.5	638.7
32.5°	1110.5	1031.5	992.0	954.7	888.4	827.3	774.3	728.9	687.9	643.9	607.4
35°	1083.6	997.2	953.2	920.4	856.3	793.0	742.3	697.6	658.1	612.6	573.1
37.5°	1049.3	965.9	921.2	880.9	814.6	756.5	708.8	665.5	626.8	585.0	541.1
40°	1009.1	921.9	883.1	840.7	770.6	715.5	670.7	632.0	593.2	553.7	511.3
42.5°	963.6	877.2	834.0	793.0	725.9	671.5	629.8	594.7	559.0	522.4	477.0
45°	909.2	828.0	786.3	747.5	682.7	626.8	588.8	555.2	524.7	487.4	447.2
47.5°	848.1	777.3	734.8	693.1	629.8	581.3	544.0	515.7	489.6	452.4	415.9
50°	788.5	718.4	684.2	641.7	583.5	538.1	500.1	476.2	456.1	419.6	386.8
52.5°	713.2	660.3	627.5	591.0	535.1	488.9	459.1	438.2	414.4	386.1	357.0
55°	646.9	597.7	571.6	537.3	482.2	441.2	415.9	396.5	377.9	352.5	329.4
57.5°	571.6	541.1	515.0	485.2	430.8	395.7	373.4	357.0	339.8	319.0	300.3
60°	492.6	478.5	453.1	429.3	383.1	352.5	333.9	319.0	302.6	285.4	269.8
62.5°	422.6	414.4	399.5	380.8	337.6	311.5	292.9	281.7	269.8	254.1	239.2
65°	356.2	352.5	338.4	324.9	295.1	272.0	255.6	248.9	235.5	223.6	210.2
67.5°	297.4	292.9	284.7	278.7	253.4	231.8	223.6	214.6	203.5	194.5	183.3
70°	237.7	237.0	231.8	224.3	210.9	195.3	187.1	181.1	169.9	163.2	155.0
72.5°	184.8	188.6	184.1	181.1	172.2	161.0	153.5	149.8	140.9	135.6	129.7
75°	137.9	140.9	143.1	137.9	135.6	130.4	123.7	120.0	115.5	108.1	105.8
77.5°	93.9	100.6	100.6	102.1	102.8	99.9	94.6	91.7	86.5	85.0	82.0
80°	61.9	67.8	68.6	70.1	72.3	72.3	68.6	67.8	62.6	61.9	59.6
82.5°	35.8	41.0	44.0	46.2	45.5	48.4	45.5	44.7	41.7	41.7	40.2
85°	19.4	20.1	21.6	23.1	24.6	26.1	26.1	25.3	24.6	23.8	22.4
87.5°	7.5	7.5	8.2	7.5	8.2	9.7	10.4	10.4	9.7	8.9	7.5
90°	7.4	6.6	6.2	5.7	4.6	3.5	2.4	1.3	2.4	3.5	4.6
92.5°	6.9	6.1	5.7	5.8	6.0	6.2	6.4	6.6	6.4	6.2	6.0
95°	9.4	9.3	9.3	11.0	14.3	17.6	20.9	24.2	20.9	17.6	14.3
97.5°	40.6	50.9	56.0	54.9	52.8	50.6	48.5	46.3	48.5	50.6	52.8
100°	59.9	73.4	80.2	79.3	77.6	75.8	74.1	72.3	74.1	75.8	77.6
102.5°	108.4	107.2	106.6	106.0	104.8	103.7	102.5	101.3	102.5	103.7	104.8
105°	136.0	135.5	135.3	135.0	134.4	133.8	133.2	132.6	133.2	133.8	134.4
107.5°	163.6	162.9	162.6	162.5	162.2	161.9	161.6	161.3	161.6	161.9	162.2
110°	192.6	192.0	191.7	191.5	191.2	190.9	190.6	190.3	190.6	190.9	191.2

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	221.5	221.3	221.2	220.9	220.3	219.7	219.1	218.5	219.1	219.7	220.3
115°	248.8	248.9	248.9	248.8	248.5	248.2	247.9	247.6	247.9	248.2	248.5
117.5°	275.8	275.5	275.4	275.2	274.8	274.4	274.0	273.6	274.0	274.4	274.8
120°	301.7	301.8	301.8	301.6	301.2	300.8	300.4	300.0	300.4	300.8	301.2
122.5°	325.9	325.7	325.6	325.5	325.3	325.1	324.9	324.7	324.9	325.1	325.3
125°	349.5	349.7	349.8	349.6	349.2	348.9	348.5	348.1	348.5	348.9	349.2
127.5°	371.7	371.2	371.0	370.9	370.8	370.7	370.6	370.5	370.6	370.7	370.8
130°	393.0	392.7	392.6	392.5	392.4	392.3	392.2	392.1	392.2	392.3	392.4
132.5°	413.4	413.0	412.8	412.7	412.5	412.4	412.2	412.0	412.2	412.4	412.5
135°	431.9	431.5	431.3	431.4	431.5	431.6	431.7	431.8	431.7	431.6	431.5
137.5°	450.1	449.6	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
140°	467.8	467.6	467.5	467.4	467.2	467.0	466.8	466.6	466.8	467.0	467.2
142.5°	483.9	483.8	483.8	483.6	483.2	482.8	482.4	482.0	482.4	482.8	483.2
145°	499.2	499.2	499.2	499.1	498.8	498.5	498.2	497.9	498.2	498.5	498.8
147.5°	512.7	512.8	512.8	512.5	511.9	511.4	510.8	510.2	510.8	511.4	511.9
150°	525.5	525.6	525.6	525.4	525.0	524.7	524.3	523.9	524.3	524.7	525.0
152.5°	536.3	536.5	536.6	536.5	536.2	535.9	535.6	535.3	535.6	535.9	536.2
155°	545.9	546.2	546.3	546.3	546.2	546.1	546.0	545.9	546.0	546.1	546.2
157.5°	554.5	554.9	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1	555.1
160°	561.6	561.7	561.8	561.9	562.2	562.5	562.8	563.1	562.8	562.5	562.2
162.5°	568.2	568.3	568.4	568.6	569.0	569.3	569.7	570.1	569.7	569.3	569.0
165°	573.6	573.6	573.6	573.9	574.4	574.9	575.4	575.9	575.4	574.9	574.4
167.5°	578.4	578.5	578.5	578.7	579.2	579.7	580.2	580.7	580.2	579.7	579.2
170°	582.2	582.1	582.0	582.3	582.9	583.5	584.1	584.7	584.1	583.5	582.9
172.5°	584.8	584.7	584.7	585.0	585.6	586.1	586.7	587.3	586.7	586.1	585.6
175°	586.6	586.5	586.4	586.7	587.3	587.9	588.5	589.1	588.5	587.9	587.3
177.5°	587.6	587.4	587.3	587.6	588.3	589.0	589.7	590.4	589.7	589.0	588.3
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	910.0	908.5	907.0	901.0	895.8	886.9	879.4	876.4	875.7	876.4	874.2
5°	883.9	883.1	877.9	867.5	857.8	847.4	839.9	832.5	828.0	828.0	822.8
7.5°	859.3	854.1	849.6	836.2	825.0	810.9	799.7	793.0	789.2	781.0	781.0
10°	833.2	825.8	819.8	807.1	790.7	776.6	762.4	754.2	747.5	741.5	739.3
12.5°	807.1	801.2	790.0	776.6	760.2	742.3	727.4	721.4	705.8	693.1	693.8
15°	782.5	769.1	763.9	744.5	725.2	708.0	686.4	669.3	656.6	648.4	638.0
17.5°	755.0	741.5	731.9	715.5	690.1	663.3	642.4	619.3	606.7	592.5	585.8
20°	724.4	713.2	705.8	679.7	649.1	617.1	594.0	579.8	565.7	555.2	549.3
22.5°	698.3	684.2	675.2	640.2	606.7	574.6	556.7	544.8	532.9	523.9	520.9
25°	664.8	656.6	635.0	604.4	563.4	541.8	526.2	510.5	503.8	497.8	491.1
27.5°	637.2	617.1	602.2	561.9	536.6	512.0	496.4	484.4	476.2	470.3	465.1
30°	602.9	584.3	563.4	529.9	506.8	483.7	469.5	459.8	450.9	447.2	442.7
32.5°	567.2	550.0	529.9	503.1	474.7	456.9	445.7	435.2	429.3	425.6	420.3
35°	535.1	513.5	500.1	474.7	451.6	431.5	421.1	412.1	405.4	403.9	403.2
37.5°	500.8	484.4	471.8	445.7	426.3	409.2	399.5	389.8	386.1	385.3	382.3
40°	471.0	456.9	444.9	420.3	399.5	383.8	376.4	370.4	366.7	366.7	365.9
42.5°	444.9	430.0	418.1	395.7	377.1	362.9	354.8	348.8	347.3	348.0	347.3
45°	415.9	403.2	391.3	368.2	352.5	342.1	333.1	330.2	327.9	328.7	329.4
47.5°	388.3	377.9	365.9	347.3	329.4	318.2	313.0	310.0	310.0	310.0	311.5
50°	363.7	351.8	341.3	322.0	305.6	296.6	292.1	288.4	289.2	289.9	290.7
52.5°	334.6	324.2	316.7	297.4	285.4	274.3	269.0	269.8	269.0	269.0	270.5
55°	309.3	298.9	291.4	273.5	261.6	254.1	249.7	247.4	248.2	246.7	249.7
57.5°	281.0	272.0	266.8	249.7	239.2	232.5	228.8	225.1	226.6	225.8	225.1
60°	256.4	245.9	237.7	225.8	216.9	208.7	206.4	202.7	204.2	202.7	202.0
62.5°	228.1	219.9	213.9	202.0	194.5	187.8	182.6	180.4	179.6	177.4	175.1
65°	199.7	195.3	189.3	177.4	169.9	164.7	161.7	159.5	158.7	152.8	146.1
67.5°	173.6	170.7	164.7	155.8	149.1	143.8	139.4	135.6	131.2	126.7	123.0
70°	149.1	144.6	140.9	132.7	126.7	121.5	117.0	112.5	110.3	105.8	104.3
72.5°	125.2	120.7	117.0	109.6	104.3	99.1	97.6	92.4	90.2	89.4	89.4
75°	100.6	96.9	94.6	87.9	83.5	79.7	77.5	76.0	74.5	73.0	70.8
77.5°	76.8	74.5	73.0	68.6	64.8	62.6	61.9	56.6	55.2	53.7	52.2
80°	55.9	55.2	53.7	49.9	48.4	43.2	43.2	41.7	41.0	41.0	41.0
82.5°	38.0	36.5	35.8	32.0	31.3	30.6	29.8	29.1	29.8	29.1	29.8
85°	20.1	19.4	18.6	18.6	18.6	18.6	18.6	18.6	18.6	17.9	18.6
87.5°	7.5	7.5	7.5	7.5	6.7	7.5	7.5	6.7	7.5	7.5	7.5
90°	5.7	6.2	6.6	7.4	8.1	8.9	9.7	10.3	10.9	11.4	12.0
92.5°	5.8	5.7	6.1	6.9	7.7	8.5	9.3	9.9	10.5	11.0	11.6
95°	11.0	9.3	9.3	9.4	9.5	9.6	9.7	10.3	10.9	11.4	12.0
97.5°	54.9	56.0	50.9	40.6	30.3	20.0	9.7	10.2	10.7	11.2	11.7
100°	79.3	80.2	73.4	59.9	46.4	32.9	19.4	17.7	16.1	14.4	12.7
102.5°	106.0	106.6	107.2	108.4	109.5	110.7	111.9	89.9	67.9	45.8	23.8
105°	135.0	135.3	135.5	136.0	136.5	137.0	137.5	138.4	139.2	140.1	141.0
107.5°	162.5	162.6	162.9	163.6	164.3	165.0	165.7	166.2	166.7	167.2	167.7
110°	191.5	191.7	192.0	192.6	193.1	193.7	194.3	194.5	194.7	194.9	195.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	220.9	221.2	221.3	221.5	221.7	221.9	222.1	222.0	221.9	221.8	221.7
115°	248.8	248.9	248.9	248.8	248.7	248.6	248.5	248.7	248.9	249.1	249.3
117.5°	275.2	275.4	275.5	275.8	276.1	276.4	276.7	276.6	276.5	276.4	276.3
120°	301.6	301.8	301.8	301.7	301.6	301.5	301.4	301.6	301.8	301.9	302.1
122.5°	325.5	325.6	325.7	325.9	326.1	326.3	326.5	326.6	326.7	326.8	326.9
125°	349.6	349.8	349.7	349.5	349.3	349.1	348.9	349.2	349.5	349.8	350.1
127.5°	370.9	371.0	371.2	371.7	372.2	372.7	373.2	373.1	373.0	372.9	372.8
130°	392.5	392.6	392.7	393.0	393.3	393.6	393.9	394.0	394.1	394.2	394.3
132.5°	412.7	412.8	413.0	413.4	413.8	414.2	414.6	414.7	414.8	414.9	415.0
135°	431.4	431.3	431.5	431.9	432.3	432.7	433.1	433.3	433.5	433.7	433.9
137.5°	449.4	449.4	449.6	450.1	450.6	451.1	451.6	451.8	452.0	452.2	452.4
140°	467.4	467.5	467.6	467.8	467.9	468.1	468.3	468.6	468.9	469.2	469.5
142.5°	483.6	483.8	483.8	483.9	484.0	484.1	484.2	484.4	484.6	484.8	485.0
145°	499.1	499.2	499.2	499.2	499.2	499.2	499.2	499.3	499.4	499.5	499.6
147.5°	512.5	512.8	512.8	512.7	512.6	512.5	512.4	512.5	512.6	512.7	512.8
150°	525.4	525.6	525.6	525.5	525.4	525.3	525.2	525.2	525.2	525.2	525.2
152.5°	536.5	536.6	536.5	536.3	536.2	536.0	535.8	536.0	536.2	536.3	536.5
155°	546.3	546.3	546.2	545.9	545.6	545.3	545.0	545.4	545.8	546.2	546.6
157.5°	555.1	555.1	554.9	554.5	554.2	553.8	553.4	553.9	554.4	554.9	555.4
160°	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.9	562.5	563.1	563.7
162.5°	568.6	568.4	568.3	568.2	568.1	568.0	567.9	568.5	569.1	569.7	570.3
165°	573.9	573.6	573.6	573.6	573.6	573.6	573.6	574.4	575.2	576.0	576.8
167.5°	578.7	578.5	578.5	578.4	578.3	578.2	578.1	579.0	579.8	580.7	581.6
170°	582.3	582.0	582.1	582.2	582.3	582.4	582.5	583.3	584.1	584.8	585.6
172.5°	585.0	584.7	584.7	584.8	584.9	585.0	585.1	585.9	586.7	587.4	588.2
175°	586.7	586.4	586.5	586.6	586.7	586.8	586.9	587.8	588.6	589.5	590.4
177.5°	587.6	587.3	587.4	587.6	587.8	588.0	588.2	589.0	589.8	590.5	591.3
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	874.2	877.2	873.5	875.7	870.5	869.7	870.5	870.5	871.2	872.0	872.7
5°	825.0	824.3	819.8	816.8	814.6	816.8	818.3	819.8	818.3	819.8	820.5
7.5°	778.8	776.6	774.3	769.1	770.6	769.1	773.6	771.4	771.4	775.1	778.1
10°	737.8	733.3	731.9	725.9	721.4	720.7	725.9	728.1	730.4	731.9	737.8
12.5°	684.9	678.2	673.0	675.2	662.5	667.8	669.3	666.3	675.2	685.7	679.7
15°	628.3	629.0	618.6	614.9	604.4	607.4	608.1	615.6	623.0	622.3	631.2
17.5°	586.5	582.1	573.1	572.4	567.9	570.1	569.4	575.4	573.1	576.8	584.3
20°	547.8	544.8	537.3	534.4	535.9	534.4	535.1	535.9	538.1	546.3	544.8
22.5°	517.2	513.5	513.5	509.8	505.3	503.8	507.5	509.8	512.7	514.2	518.0
25°	490.4	487.4	483.7	481.4	477.7	478.5	480.7	483.7	485.9	488.9	491.9
27.5°	462.8	462.8	459.1	458.3	456.9	456.1	459.1	460.6	460.6	462.8	465.8
30°	441.2	441.2	437.5	436.7	436.0	436.0	438.2	439.0	439.7	441.9	443.4
32.5°	420.3	419.6	418.1	418.8	418.1	418.8	418.8	419.6	421.1	421.8	424.8
35°	401.0	401.7	400.2	400.2	399.5	400.2	401.7	402.4	403.2	404.7	404.7
37.5°	382.3	383.8	383.1	385.3	385.3	385.3	385.3	386.8	386.8	386.8	386.1
40°	365.9	365.9	365.2	366.7	368.2	368.2	368.9	368.9	369.7	369.7	368.9
42.5°	347.3	348.8	351.0	351.8	353.3	352.5	354.8	354.0	354.8	353.3	351.8
45°	330.2	330.2	333.1	336.1	336.9	336.9	336.9	338.4	336.9	334.6	333.9
47.5°	311.5	313.0	314.5	318.2	319.0	319.0	319.0	319.0	317.5	317.5	317.5
50°	292.9	293.6	294.4	295.9	298.1	297.4	297.4	297.4	300.3	297.4	298.1
52.5°	270.5	271.3	272.0	275.0	274.3	274.3	275.0	275.0	277.2	276.5	275.0
55°	248.2	248.2	249.7	249.7	249.7	251.2	251.9	253.4	252.6	253.4	254.1
57.5°	225.8	224.3	223.6	223.6	225.8	225.1	225.8	225.8	228.8	230.3	231.0
60°	199.7	199.7	199.0	194.5	194.5	193.8	196.0	197.5	199.0	205.7	205.0
62.5°	172.9	169.9	166.9	167.7	163.2	165.5	164.0	165.5	169.9	175.1	175.9
65°	146.1	143.8	140.9	140.1	138.6	140.9	140.1	140.9	143.1	146.1	149.8
67.5°	122.2	121.5	120.0	119.2	119.2	119.2	120.7	120.7	121.5	123.7	126.0
70°	104.3	103.6	104.3	102.8	103.6	102.8	103.6	104.3	105.1	105.8	108.1
72.5°	87.9	87.9	87.9	86.5	87.9	87.2	87.2	87.9	88.7	89.4	90.9
75°	70.1	68.6	67.1	65.6	64.8	66.3	67.1	66.3	68.6	71.5	71.5
77.5°	52.9	52.2	52.2	52.2	52.9	52.2	53.7	52.9	53.7	53.7	55.2
80°	41.0	40.2	41.0	41.0	40.2	41.7	41.0	41.0	41.7	42.5	41.7
82.5°	29.8	30.6	29.8	29.8	29.8	31.3	29.8	29.8	29.8	30.6	30.6
85°	18.6	18.6	18.6	18.6	19.4	18.6	19.4	18.6	20.1	19.4	19.4
87.5°	6.7	7.5	8.2	8.2	8.2	8.2	7.5	8.2	8.9	8.2	8.9
90°	12.3	12.4	12.6	12.8	13.0	13.2	13.0	12.8	12.6	12.4	12.3
92.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
95°	12.3	12.4	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	12.3
97.5°	11.9	11.9	12.0	12.1	12.2	12.3	12.2	12.1	12.0	11.9	11.9
100°	11.9	11.9	12.0	12.1	12.2	12.3	12.2	12.1	12.0	11.9	11.9
102.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
105°	141.4	139.6	136.1	132.6	129.1	125.6	129.1	132.6	136.1	139.6	141.4
107.5°	167.9	168.1	168.5	168.8	169.2	169.6	169.2	168.8	168.5	168.1	167.9
110°	195.2	195.3	195.6	195.9	196.2	196.5	196.2	195.9	195.6	195.3	195.2

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	221.6	221.8	222.2	222.6	223.0	223.4	223.0	222.6	222.2	221.8	221.6
115°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
117.5°	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2	276.2
120°	302.2	302.1	301.9	301.8	301.6	301.4	301.6	301.8	301.9	302.1	302.2
122.5°	326.9	326.8	326.6	326.4	326.2	326.0	326.2	326.4	326.6	326.8	326.9
125°	350.3	350.3	350.4	350.5	350.6	350.7	350.6	350.5	350.4	350.3	350.3
127.5°	372.7	372.7	372.6	372.5	372.4	372.3	372.4	372.5	372.6	372.7	372.7
130°	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3
132.5°	415.0	415.0	414.9	414.8	414.7	414.6	414.7	414.8	414.9	415.0	415.0
135°	434.0	434.1	434.3	434.5	434.7	434.9	434.7	434.5	434.3	434.1	434.0
137.5°	452.5	452.4	452.3	452.2	452.1	452.0	452.1	452.2	452.3	452.4	452.5
140°	469.7	469.7	469.8	469.9	470.0	470.1	470.0	469.9	469.8	469.7	469.7
142.5°	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1	485.1
145°	499.6	499.7	499.9	500.1	500.3	500.5	500.3	500.1	499.9	499.7	499.6
147.5°	512.8	512.9	513.0	513.1	513.2	513.3	513.2	513.1	513.0	512.9	512.8
150°	525.2	525.2	525.3	525.4	525.5	525.6	525.5	525.4	525.3	525.2	525.2
152.5°	536.6	536.6	536.5	536.4	536.3	536.2	536.3	536.4	536.5	536.6	536.6
155°	546.8	546.6	546.3	546.0	545.7	545.4	545.7	546.0	546.3	546.6	546.8
157.5°	555.6	555.4	554.9	554.4	553.9	553.4	553.9	554.4	554.9	555.4	555.6
160°	564.0	563.7	563.1	562.5	561.9	561.3	561.9	562.5	563.1	563.7	564.0
162.5°	570.6	570.3	569.6	568.9	568.2	567.5	568.2	568.9	569.6	570.3	570.6
165°	577.2	576.8	575.9	575.0	574.1	573.2	574.1	575.0	575.9	576.8	577.2
167.5°	582.0	581.5	580.5	579.6	578.6	577.6	578.6	579.6	580.5	581.5	582.0
170°	586.0	585.5	584.5	583.6	582.6	581.6	582.6	583.6	584.5	585.5	586.0
172.5°	588.6	588.1	587.0	585.9	584.9	583.8	584.9	585.9	587.0	588.1	588.6
175°	590.8	590.2	589.0	587.9	586.7	585.5	586.7	587.9	589.0	590.2	590.8
177.5°	591.7	591.1	589.9	588.8	587.6	586.4	587.6	588.8	589.9	591.1	591.7
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9	924.9
2.5°	875.7	879.4	877.9	872.7	875.0	879.4	883.9	889.9	893.6	896.6	898.1
5°	824.3	831.0	829.5	829.5	832.5	839.9	847.4	860.0	864.5	869.7	877.2
7.5°	778.8	784.0	788.5	790.0	794.5	804.2	813.8	828.0	839.2	845.1	849.6
10°	738.6	742.3	749.0	752.7	757.2	769.1	783.3	798.2	809.4	819.8	825.8
12.5°	687.1	702.0	711.0	717.0	722.9	740.8	752.0	768.4	781.8	791.5	800.4
15°	629.8	647.6	652.9	676.0	690.9	705.0	722.2	741.5	754.2	765.4	777.3
17.5°	581.3	594.0	599.9	624.5	637.2	659.6	684.2	708.8	728.1	736.3	748.3
20°	550.8	557.5	569.4	577.6	591.0	617.1	643.9	673.7	702.8	711.0	722.9
22.5°	519.5	528.4	536.6	547.8	558.2	576.1	602.9	635.7	667.0	681.9	696.1
25°	491.1	500.1	505.3	517.2	526.9	544.8	563.4	597.0	634.2	646.9	669.3
27.5°	468.8	474.0	482.9	488.2	499.3	515.7	532.9	558.2	594.7	616.3	638.0
30°	446.4	450.1	457.6	465.1	473.2	484.4	503.8	528.4	561.9	580.6	602.2
32.5°	424.1	430.0	434.5	439.7	448.7	462.1	475.5	499.3	526.2	547.0	568.6
35°	405.4	407.7	413.6	419.6	425.6	437.5	451.6	474.7	498.6	515.0	534.4
37.5°	385.3	389.0	393.5	395.7	405.4	412.9	427.8	445.7	474.0	484.4	503.8
40°	369.7	368.9	373.4	377.1	381.6	393.5	402.4	421.8	444.2	460.6	472.5
42.5°	350.3	350.3	351.8	356.2	362.2	369.7	380.1	396.5	419.6	431.5	445.7
45°	334.6	332.4	333.1	336.1	339.8	347.3	357.7	371.9	395.0	404.7	419.6
47.5°	316.0	313.8	313.8	316.7	319.7	324.9	333.1	349.5	368.2	380.8	392.0
50°	295.1	295.9	295.1	297.4	298.9	304.1	313.0	326.4	343.6	354.0	366.7
52.5°	275.8	274.3	273.5	275.0	278.0	281.7	291.4	303.3	319.7	330.2	341.3
55°	251.9	253.4	253.4	253.4	257.9	259.4	266.8	278.7	295.1	303.3	313.8
57.5°	230.3	229.5	231.0	230.3	234.0	239.2	245.2	254.1	270.5	278.7	288.4
60°	206.4	207.2	207.9	207.9	210.9	216.1	222.8	231.0	244.4	252.6	261.6
62.5°	177.4	181.1	184.8	186.3	190.8	194.5	199.0	207.9	219.9	225.8	234.0
65°	149.8	155.0	160.2	164.0	166.9	170.7	176.6	184.8	194.5	200.5	208.7
67.5°	126.0	129.7	136.4	140.1	146.1	150.5	154.3	161.0	172.9	175.1	181.8
70°	108.8	110.3	113.3	116.3	123.0	126.7	131.2	137.9	146.8	152.0	155.8
72.5°	91.7	92.4	93.9	96.9	99.9	104.3	109.6	115.5	123.7	126.0	131.2
75°	73.0	77.5	77.5	79.7	82.0	84.2	88.7	94.6	99.9	103.6	106.6
77.5°	54.4	56.6	58.1	61.9	64.8	67.1	70.1	74.5	77.5	80.5	82.7
80°	42.5	43.2	44.0	44.0	45.5	48.4	51.4	54.4	58.1	59.6	61.9
82.5°	31.3	31.3	31.3	32.8	33.5	34.3	34.3	35.8	39.5	41.0	43.2
85°	20.1	20.1	20.1	20.1	20.9	21.6	22.4	23.1	23.1	23.1	24.6
87.5°	8.2	9.7	8.9	9.7	9.7	9.7	9.7	10.4	10.4	11.2	11.2
90°	12.0	11.4	10.9	10.3	9.7	8.9	8.1	7.4	6.6	6.2	5.7
92.5°	11.6	11.0	10.5	9.9	9.3	8.5	7.7	6.9	6.1	5.7	5.8
95°	12.0	11.4	10.9	10.3	9.7	9.6	9.5	9.4	9.3	9.3	11.0
97.5°	11.7	11.2	10.7	10.2	9.7	20.0	30.3	40.6	50.9	56.0	54.9
100°	12.7	14.4	16.1	17.7	19.4	32.9	46.4	59.9	73.4	80.2	79.3
102.5°	23.8	45.8	67.9	89.9	111.9	110.7	109.5	108.4	107.2	106.6	106.0
105°	141.0	140.1	139.2	138.4	137.5	137.0	136.5	136.0	135.5	135.3	135.0
107.5°	167.7	167.2	166.7	166.2	165.7	165.0	164.3	163.6	162.9	162.6	162.5
110°	195.1	194.9	194.7	194.5	194.3	193.7	193.1	192.6	192.0	191.7	191.5

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	221.7	221.8	221.9	222.0	222.1	221.9	221.7	221.5	221.3	221.2	220.9
115°	249.3	249.1	248.9	248.7	248.5	248.6	248.7	248.8	248.9	248.9	248.8
117.5°	276.3	276.4	276.5	276.6	276.7	276.4	276.1	275.8	275.5	275.4	275.2
120°	302.1	301.9	301.8	301.6	301.4	301.5	301.6	301.7	301.8	301.8	301.6
122.5°	326.9	326.8	326.7	326.6	326.5	326.3	326.1	325.9	325.7	325.6	325.5
125°	350.1	349.8	349.5	349.2	348.9	349.1	349.3	349.5	349.7	349.8	349.6
127.5°	372.8	372.9	373.0	373.1	373.2	372.7	372.2	371.7	371.2	371.0	370.9
130°	394.3	394.2	394.1	394.0	393.9	393.6	393.3	393.0	392.7	392.6	392.5
132.5°	415.0	414.9	414.8	414.7	414.6	414.2	413.8	413.4	413.0	412.8	412.7
135°	433.9	433.7	433.5	433.3	433.1	432.7	432.3	431.9	431.5	431.3	431.4
137.5°	452.4	452.2	452.0	451.8	451.6	451.1	450.6	450.1	449.6	449.4	449.4
140°	469.5	469.2	468.9	468.6	468.3	468.1	467.9	467.8	467.6	467.5	467.4
142.5°	485.0	484.8	484.6	484.4	484.2	484.1	484.0	483.9	483.8	483.8	483.6
145°	499.6	499.5	499.4	499.3	499.2	499.2	499.2	499.2	499.2	499.2	499.1
147.5°	512.8	512.7	512.6	512.5	512.4	512.5	512.6	512.7	512.8	512.8	512.5
150°	525.2	525.2	525.2	525.2	525.2	525.3	525.4	525.5	525.6	525.6	525.4
152.5°	536.5	536.3	536.2	536.0	535.8	536.0	536.2	536.3	536.5	536.6	536.5
155°	546.6	546.2	545.8	545.4	545.0	545.3	545.6	545.9	546.2	546.3	546.3
157.5°	555.4	554.9	554.4	553.9	553.4	553.8	554.2	554.5	554.9	555.1	555.1
160°	563.7	563.1	562.5	561.9	561.3	561.4	561.5	561.6	561.7	561.8	561.9
162.5°	570.3	569.7	569.1	568.5	567.9	568.0	568.1	568.2	568.3	568.4	568.6
165°	576.8	576.0	575.2	574.4	573.6	573.6	573.6	573.6	573.6	573.6	573.9
167.5°	581.6	580.7	579.8	579.0	578.1	578.2	578.3	578.4	578.5	578.5	578.7
170°	585.6	584.8	584.1	583.3	582.5	582.4	582.3	582.2	582.1	582.0	582.3
172.5°	588.2	587.4	586.7	585.9	585.1	585.0	584.9	584.8	584.7	584.7	585.0
175°	590.4	589.5	588.6	587.8	586.9	586.8	586.7	586.6	586.5	586.4	586.7
177.5°	591.3	590.5	589.8	589.0	588.2	588.0	587.8	587.6	587.4	587.3	587.6
180°	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1	589.1

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	924.9	924.9	924.9	924.9
2.5°	904.0	908.5	915.9	926.4
5°	883.1	895.8	907.7	923.4
7.5°	864.5	879.4	895.8	918.2
10°	842.9	861.5	882.4	910.0
12.5°	817.6	843.6	867.5	897.3
15°	798.9	818.3	848.9	883.9
17.5°	772.8	798.9	829.5	869.0
20°	748.3	775.8	810.1	851.1
22.5°	722.2	753.5	787.8	831.7
25°	695.3	728.9	763.2	810.1
27.5°	670.7	701.3	740.1	787.8
30°	640.9	676.0	713.2	763.2
32.5°	611.9	648.4	686.4	736.3
35°	580.6	617.1	658.8	706.5
37.5°	550.0	590.3	628.3	674.5
40°	516.5	558.2	597.7	644.7
42.5°	483.7	526.9	566.4	606.7
45°	453.1	495.6	531.4	569.4
47.5°	424.1	462.1	498.6	532.9
50°	395.7	427.8	461.3	489.6
52.5°	365.9	396.5	423.3	448.7
55°	339.1	362.9	386.8	409.9
57.5°	307.1	330.9	351.8	369.7
60°	280.2	295.1	315.3	333.9
62.5°	249.7	266.8	282.5	294.4
65°	219.9	234.8	246.7	257.1
67.5°	194.5	203.5	212.4	223.6
70°	164.0	171.4	181.8	190.0
72.5°	137.9	143.8	149.1	158.7
75°	111.8	117.0	120.0	128.9
77.5°	86.5	91.7	93.9	99.1
80°	66.3	67.1	70.1	74.5
82.5°	45.5	47.0	47.7	51.4
85°	26.1	29.8	29.1	30.6
87.5°	11.2	11.9	13.4	14.9
90°	4.6	3.5	2.4	1.3
92.5°	6.0	6.2	6.4	6.6
95°	14.3	17.6	20.9	24.2
97.5°	52.8	50.6	48.5	46.3
100°	77.6	75.8	74.1	72.3
102.5°	104.8	103.7	102.5	101.3
105°	134.4	133.8	133.2	132.6
107.5°	162.2	161.9	161.6	161.3
110°	191.2	190.9	190.6	190.3

TEST NUMBER: P1033023

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	220.3	219.7	219.1	218.5
115°	248.5	248.2	247.9	247.6
117.5°	274.8	274.4	274.0	273.6
120°	301.2	300.8	300.4	300.0
122.5°	325.3	325.1	324.9	324.7
125°	349.2	348.9	348.5	348.1
127.5°	370.8	370.7	370.6	370.5
130°	392.4	392.3	392.2	392.1
132.5°	412.5	412.4	412.2	412.0
135°	431.5	431.6	431.7	431.8
137.5°	449.4	449.4	449.4	449.4
140°	467.2	467.0	466.8	466.6
142.5°	483.2	482.8	482.4	482.0
145°	498.8	498.5	498.2	497.9
147.5°	511.9	511.4	510.8	510.2
150°	525.0	524.7	524.3	523.9
152.5°	536.2	535.9	535.6	535.3
155°	546.2	546.1	546.0	545.9
157.5°	555.1	555.1	555.1	555.1
160°	562.2	562.5	562.8	563.1
162.5°	569.0	569.3	569.7	570.1
165°	574.4	574.9	575.4	575.9
167.5°	579.2	579.7	580.2	580.7
170°	582.9	583.5	584.1	584.7
172.5°	585.6	586.1	586.7	587.3
175°	587.3	587.9	588.5	589.1
177.5°	588.3	589.0	589.7	590.4
180°	589.1	589.1	589.1	589.1

(END OF REPORT)