

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: P1033019

Luminaire Tested: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033019
REPORT IS A COMBINATION OF REPORTS P1000617 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-A1_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

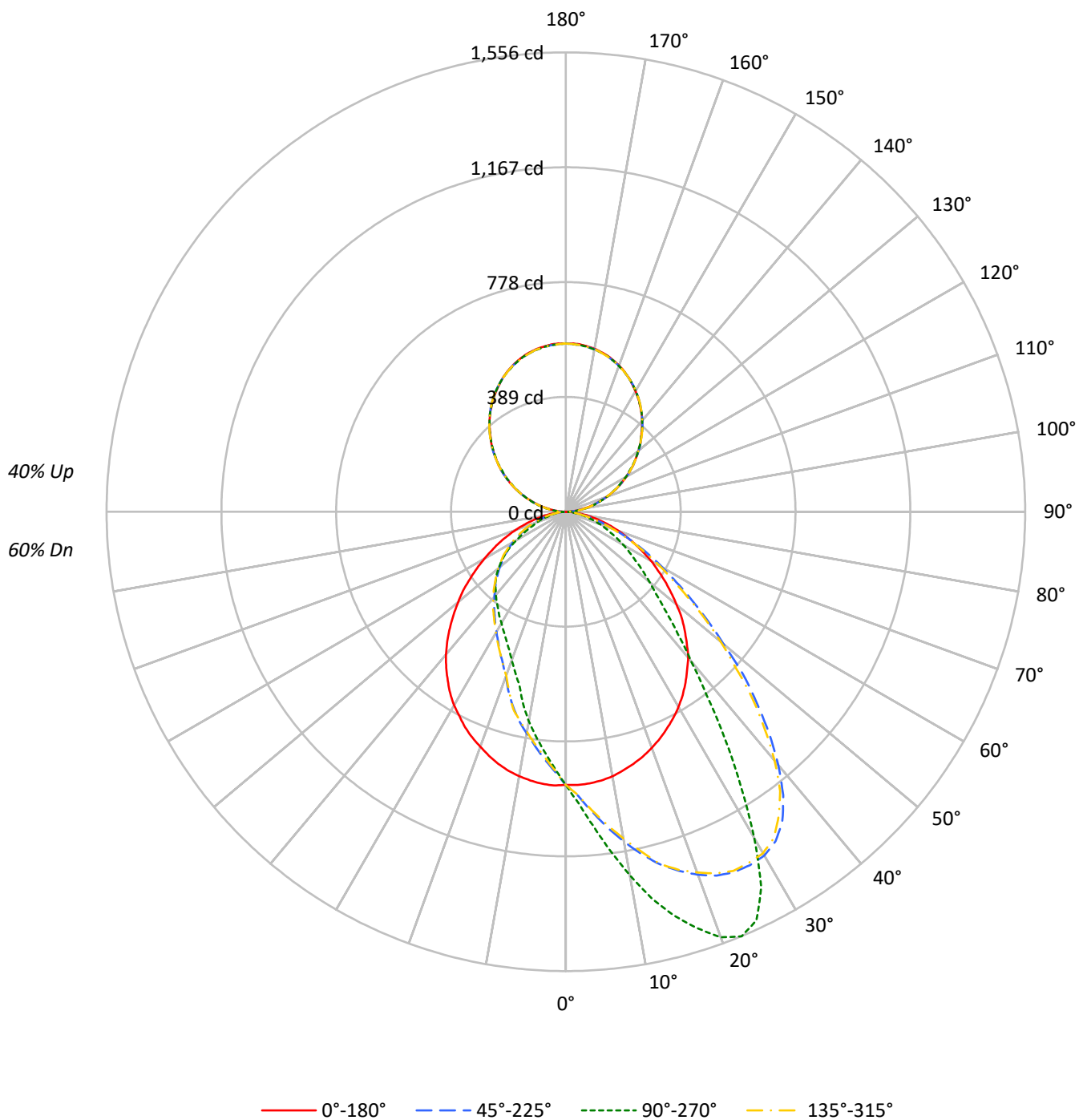
Lumens per Lamp: N/A
Luminaire Lumens: 3920.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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Luminous Intensity Polar Plot



TEST NUMBER: P1033019

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	101	96	93	89	94	90	87	84	79	76	74	68	66	65	58	57	56
2	92	85	79	74	86	80	74	70	70	66	62	60	58	55	52	50	48
3	84	75	68	62	79	70	64	59	62	57	53	54	50	47	47	44	41
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	39	36
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	35	32
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	35	31	28
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25
8	57	44	37	31	53	42	35	30	37	32	28	33	29	25	29	25	23
9	53	41	33	28	49	39	32	27	34	29	25	31	26	23	27	23	21
10	49	37	30	25	46	35	29	24	32	26	23	28	24	21	25	21	19

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	2.3
10°-20°	270.5	6.9
20°-30°	423.6	10.8
30°-40°	470.4	12.0
40°-50°	416.9	10.6
50°-60°	324.9	8.3
60°-70°	212.5	5.4
70°-80°	104.3	2.7
80°-90°	26.6	0.7
90°-100°	37.1	0.9
100°-110°	111.2	2.8
110°-120°	189.0	4.8
120°-130°	249.2	6.4
130°-140°	279.9	7.1
140°-150°	275.1	7.0
150°-160°	231.4	5.9
160°-170°	154.0	3.9
170°-180°	53.9	1.4
0°-30°	783.6	20.0
0°-40°	1254.1	32.0
0°-60°	1995.8	50.9
0°-90°	2339.2	59.7
90°-120°	337.3	8.6
90°-150°	1141.5	29.1
90°-180°	1581.0	40.3
0°-180°	3920.0	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	4
95°	26	35	26	35	26	29
105°	103	108	103	108	103	109
115°	192	190	192	190	192	189
125°	280	278	280	278	280	249
135°	361	361	361	361	361	279
145°	438	439	438	439	438	274
155°	502	502	502	502	502	231
165°	547	546	547	546	547	154
175°	569	566	569	566	569	54
180°	570	570	570	570	570	

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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°	11.5	12.8	14.0	15.3	16.6	17.2	17.4	17.9	18.4	18.9	19.4
95°	26.4	27.3	28.2	29.1	30.0	30.4	30.7	31.4	32.1	32.8	33.5
97.5°	42.3	43.1	43.9	44.6	45.4	45.8	46.2	47.0	47.7	48.5	49.3
100°	61.7	62.1	62.5	62.8	63.2	63.4	63.8	64.7	65.6	66.5	67.4
102.5°	82.0	82.1	82.2	82.3	82.4	82.4	82.8	83.6	84.3	85.1	85.9
105°	102.7	102.8	102.9	103.0	103.1	103.1	103.3	103.7	104.1	104.5	104.9
107.5°	124.3	124.4	124.5	124.6	124.7	124.7	124.7	124.8	124.9	125.0	125.1
110°	146.3	146.5	146.7	146.9	147.1	147.2	147.1	147.0	146.9	146.8	146.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	169.2	169.2	169.2	169.2	169.2	169.2	169.1	168.9	168.7	168.5	168.3
115°	192.1	192.1	192.1	192.1	192.1	192.1	192.0	191.8	191.6	191.4	191.2
117.5°	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.6	213.5	213.4	213.3
120°	235.3	235.7	236.1	236.5	236.9	237.1	236.9	236.6	236.3	236.0	235.7
122.5°	257.8	257.9	258.0	258.1	258.2	258.2	258.2	258.1	258.0	257.9	257.8
125°	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.7	279.6	279.5	279.4
127.5°	299.6	299.9	300.2	300.5	300.8	300.9	300.8	300.6	300.5	300.3	300.1
130°	320.8	321.1	321.4	321.7	322.0	322.1	322.1	322.1	322.1	322.1	322.1
132.5°	342.4	342.6	342.8	342.9	343.1	343.2	343.2	343.1	343.0	342.9	342.8
135°	360.9	361.5	362.1	362.6	363.2	363.5	363.5	363.5	363.5	363.5	363.5
137.5°	381.6	381.9	382.2	382.5	382.8	382.9	383.0	383.2	383.4	383.6	383.8
140°	402.3	402.5	402.7	402.9	403.1	403.2	403.2	403.2	403.2	403.2	403.2
142.5°	421.2	421.4	421.6	421.8	422.0	422.1	422.1	422.0	421.9	421.8	421.7
145°	438.4	438.8	439.2	439.6	440.0	440.2	440.2	440.3	440.4	440.5	440.6
147.5°	456.0	456.5	457.0	457.5	458.0	458.2	458.2	458.1	458.0	457.9	457.8
150°	471.9	472.3	472.7	473.1	473.5	473.7	473.7	473.7	473.7	473.7	473.7
152.5°	486.9	487.1	487.3	487.5	487.7	487.8	487.8	487.9	488.0	488.1	488.2
155°	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.2	502.1	502.0	501.9
157.5°	515.5	515.3	515.1	514.9	514.7	514.6	514.6	514.6	514.6	514.6	514.6
160°	527.0	526.9	526.8	526.7	526.6	526.5	526.5	526.4	526.3	526.2	526.1
162.5°	537.6	537.3	537.0	536.7	536.4	536.2	536.2	536.1	536.0	535.9	535.8
165°	546.8	546.5	546.2	545.9	545.6	545.5	545.4	545.2	545.0	544.8	544.6
167.5°	554.3	553.9	553.5	553.1	552.7	552.5	552.5	552.5	552.5	552.5	552.5
170°	560.5	560.0	559.5	559.0	558.5	558.3	558.3	558.4	558.5	558.6	558.7
172.5°	564.9	564.5	564.1	563.7	563.3	563.1	563.1	563.1	563.1	563.1	563.1
175°	568.8	568.3	567.8	567.3	566.8	566.6	566.6	566.5	566.4	566.3	566.2
177.5°	570.6	570.1	569.6	569.1	568.6	568.4	568.4	568.4	568.4	568.4	568.4
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

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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°	19.7	20.0	20.3	20.6	20.7	20.7	20.8	20.9	21.0	21.1	21.0
95°	33.8	34.1	34.4	34.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
97.5°	49.7	50.1	50.5	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1
100°	67.6	67.8	68.0	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3
102.5°	86.2	86.5	86.8	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.6
105°	105.2	105.5	105.8	106.1	106.2	106.3	106.6	106.9	107.2	107.5	107.2
107.5°	125.5	125.9	126.3	126.7	126.9	126.9	126.8	126.7	126.6	126.5	126.6
110°	146.5	146.3	146.1	145.9	145.8	146.0	146.3	146.6	146.9	147.2	146.9

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
115°	191.1	191.0	190.9	190.8	190.8	190.7	190.6	190.5	190.4	190.3	190.4
117.5°	213.0	212.7	212.4	212.1	211.9	211.8	211.5	211.2	210.9	210.6	210.9
120°	235.2	234.7	234.2	233.7	233.5	233.6	233.8	234.0	234.2	234.4	234.2
122.5°	257.5	257.2	256.9	256.6	256.4	256.2	255.7	255.2	254.7	254.2	254.7
125°	279.2	279.0	278.8	278.6	278.5	278.4	278.2	278.0	277.8	277.6	277.8
127.5°	299.9	299.7	299.5	299.3	299.2	299.1	299.0	298.9	298.8	298.7	298.8
130°	321.9	321.7	321.5	321.3	321.2	321.0	320.6	320.3	319.9	319.5	319.9
132.5°	342.6	342.4	342.2	342.0	341.9	341.9	341.8	341.7	341.6	341.5	341.6
135°	363.3	363.1	362.9	362.7	362.6	362.5	362.2	361.9	361.6	361.3	361.6
137.5°	383.5	383.2	382.9	382.6	382.5	382.5	382.6	382.7	382.8	382.9	382.8
140°	403.1	403.0	402.9	402.8	402.7	402.7	402.6	402.5	402.4	402.3	402.4
142.5°	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7
145°	440.5	440.4	440.3	440.2	440.2	440.1	439.8	439.5	439.2	438.9	439.2
147.5°	457.7	457.6	457.5	457.4	457.4	457.3	457.2	457.1	457.0	456.9	457.0
150°	473.7	473.7	473.7	473.7	473.7	473.6	473.5	473.4	473.3	473.2	473.3
152.5°	488.5	488.8	489.1	489.4	489.5	489.4	489.1	488.8	488.5	488.2	488.5
155°	502.3	502.7	503.0	503.4	503.6	503.4	503.0	502.7	502.3	501.9	502.3
157.5°	514.9	515.2	515.5	515.8	516.0	515.8	515.5	515.2	514.9	514.6	514.9
160°	526.4	526.7	527.0	527.3	527.4	527.2	526.7	526.2	525.7	525.2	525.7
162.5°	536.4	537.0	537.5	538.1	538.4	538.2	537.7	537.2	536.7	536.2	536.7
165°	545.2	545.8	546.4	547.0	547.3	547.1	546.7	546.3	545.9	545.5	545.9
167.5°	553.1	553.7	554.3	554.9	555.2	554.9	554.3	553.7	553.1	552.5	553.1
170°	559.3	559.9	560.5	561.1	561.4	561.1	560.4	559.7	559.0	558.3	559.0
172.5°	563.8	564.5	565.2	565.9	566.2	565.9	565.2	564.5	563.8	563.1	563.8
175°	566.9	567.6	568.3	569.0	569.3	569.0	568.3	567.6	566.9	566.2	566.9
177.5°	569.1	569.8	570.5	571.2	571.5	571.1	570.3	569.6	568.8	568.0	568.8
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_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°	20.9	20.8	20.7	20.7	20.6	20.3	20.0	19.7	19.4	18.9	18.4
95°	34.8	34.8	34.8	34.8	34.7	34.4	34.1	33.8	33.5	32.8	32.1
97.5°	51.1	51.1	51.1	51.1	50.9	50.5	50.1	49.7	49.3	48.5	47.7
100°	68.3	68.3	68.3	68.3	68.2	68.0	67.8	67.6	67.4	66.5	65.6
102.5°	87.5	87.4	87.3	87.2	87.1	86.8	86.5	86.2	85.9	85.1	84.3
105°	106.9	106.6	106.3	106.2	106.1	105.8	105.5	105.2	104.9	104.5	104.1
107.5°	126.7	126.8	126.9	126.9	126.7	126.3	125.9	125.5	125.1	125.0	124.9
110°	146.6	146.3	146.0	145.8	145.9	146.1	146.3	146.5	146.7	146.8	146.9

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.5	168.7
115°	190.5	190.6	190.7	190.8	190.8	190.9	191.0	191.1	191.2	191.4	191.6
117.5°	211.2	211.5	211.8	211.9	212.1	212.4	212.7	213.0	213.3	213.4	213.5
120°	234.0	233.8	233.6	233.5	233.7	234.2	234.7	235.2	235.7	236.0	236.3
122.5°	255.2	255.7	256.2	256.4	256.6	256.9	257.2	257.5	257.8	257.9	258.0
125°	278.0	278.2	278.4	278.5	278.6	278.8	279.0	279.2	279.4	279.5	279.6
127.5°	298.9	299.0	299.1	299.2	299.3	299.5	299.7	299.9	300.1	300.3	300.5
130°	320.3	320.6	321.0	321.2	321.3	321.5	321.7	321.9	322.1	322.1	322.1
132.5°	341.7	341.8	341.9	341.9	342.0	342.2	342.4	342.6	342.8	342.9	343.0
135°	361.9	362.2	362.5	362.6	362.7	362.9	363.1	363.3	363.5	363.5	363.5
137.5°	382.7	382.6	382.5	382.5	382.6	382.9	383.2	383.5	383.8	383.6	383.4
140°	402.5	402.6	402.7	402.7	402.8	402.9	403.0	403.1	403.2	403.2	403.2
142.5°	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.8	421.9
145°	439.5	439.8	440.1	440.2	440.2	440.3	440.4	440.5	440.6	440.5	440.4
147.5°	457.1	457.2	457.3	457.4	457.4	457.5	457.6	457.7	457.8	457.9	458.0
150°	473.4	473.5	473.6	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
152.5°	488.8	489.1	489.4	489.5	489.4	489.1	488.8	488.5	488.2	488.1	488.0
155°	502.7	503.0	503.4	503.6	503.4	503.0	502.7	502.3	501.9	502.0	502.1
157.5°	515.2	515.5	515.8	516.0	515.8	515.5	515.2	514.9	514.6	514.6	514.6
160°	526.2	526.7	527.2	527.4	527.3	527.0	526.7	526.4	526.1	526.2	526.3
162.5°	537.2	537.7	538.2	538.4	538.1	537.5	537.0	536.4	535.8	535.9	536.0
165°	546.3	546.7	547.1	547.3	547.0	546.4	545.8	545.2	544.6	544.8	545.0
167.5°	553.7	554.3	554.9	555.2	554.9	554.3	553.7	553.1	552.5	552.5	552.5
170°	559.7	560.4	561.1	561.4	561.1	560.5	559.9	559.3	558.7	558.6	558.5
172.5°	564.5	565.2	565.9	566.2	565.9	565.2	564.5	563.8	563.1	563.1	563.1
175°	567.6	568.3	569.0	569.3	569.0	568.3	567.6	566.9	566.2	566.3	566.4
177.5°	569.6	570.3	571.1	571.5	571.2	570.5	569.8	569.1	568.4	568.4	568.4
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_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°	17.9	17.4	17.2	16.6	15.3	14.0	12.8	11.5	12.8	14.0	15.3
95°	31.4	30.7	30.4	30.0	29.1	28.2	27.3	26.4	27.3	28.2	29.1
97.5°	47.0	46.2	45.8	45.4	44.6	43.9	43.1	42.3	43.1	43.9	44.6
100°	64.7	63.8	63.4	63.2	62.8	62.5	62.1	61.7	62.1	62.5	62.8
102.5°	83.6	82.8	82.4	82.4	82.3	82.2	82.1	82.0	82.1	82.2	82.3
105°	103.7	103.3	103.1	103.1	103.0	102.9	102.8	102.7	102.8	102.9	103.0
107.5°	124.8	124.7	124.7	124.7	124.6	124.5	124.4	124.3	124.4	124.5	124.6
110°	147.0	147.1	147.2	147.1	146.9	146.7	146.5	146.3	146.5	146.7	146.9

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	168.9	169.1	169.2	169.2	169.2	169.2	169.2	169.2	169.2	169.2	169.2
115°	191.8	192.0	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1	192.1
117.5°	213.6	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7
120°	236.6	236.9	237.1	236.9	236.5	236.1	235.7	235.3	235.7	236.1	236.5
122.5°	258.1	258.2	258.2	258.2	258.1	258.0	257.9	257.8	257.9	258.0	258.1
125°	279.7	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8	279.8
127.5°	300.6	300.8	300.9	300.8	300.5	300.2	299.9	299.6	299.9	300.2	300.5
130°	322.1	322.1	322.1	322.0	321.7	321.4	321.1	320.8	321.1	321.4	321.7
132.5°	343.1	343.2	343.2	343.1	342.9	342.8	342.6	342.4	342.6	342.8	342.9
135°	363.5	363.5	363.5	363.2	362.6	362.1	361.5	360.9	361.5	362.1	362.6
137.5°	383.2	383.0	382.9	382.8	382.5	382.2	381.9	381.6	381.9	382.2	382.5
140°	403.2	403.2	403.2	403.1	402.9	402.7	402.5	402.3	402.5	402.7	402.9
142.5°	422.0	422.1	422.1	422.0	421.8	421.6	421.4	421.2	421.4	421.6	421.8
145°	440.3	440.2	440.2	440.0	439.6	439.2	438.8	438.4	438.8	439.2	439.6
147.5°	458.1	458.2	458.2	458.0	457.5	457.0	456.5	456.0	456.5	457.0	457.5
150°	473.7	473.7	473.7	473.5	473.1	472.7	472.3	471.9	472.3	472.7	473.1
152.5°	487.9	487.8	487.8	487.7	487.5	487.3	487.1	486.9	487.1	487.3	487.5
155°	502.2	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
157.5°	514.6	514.6	514.6	514.7	514.9	515.1	515.3	515.5	515.3	515.1	514.9
160°	526.4	526.5	526.5	526.6	526.7	526.8	526.9	527.0	526.9	526.8	526.7
162.5°	536.1	536.2	536.2	536.4	536.7	537.0	537.3	537.6	537.3	537.0	536.7
165°	545.2	545.4	545.5	545.6	545.9	546.2	546.5	546.8	546.5	546.2	545.9
167.5°	552.5	552.5	552.5	552.7	553.1	553.5	553.9	554.3	553.9	553.5	553.1
170°	558.4	558.3	558.3	558.5	559.0	559.5	560.0	560.5	560.0	559.5	559.0
172.5°	563.1	563.1	563.1	563.3	563.7	564.1	564.5	564.9	564.5	564.1	563.7
175°	566.5	566.6	566.6	566.8	567.3	567.8	568.3	568.8	568.3	567.8	567.3
177.5°	568.4	568.4	568.4	568.6	569.1	569.6	570.1	570.6	570.1	569.6	569.1
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_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°	16.6	17.2	17.4	17.9	18.4	18.9	19.4	19.7	20.0	20.3	20.6
95°	30.0	30.4	30.7	31.4	32.1	32.8	33.5	33.8	34.1	34.4	34.7
97.5°	45.4	45.8	46.2	47.0	47.7	48.5	49.3	49.7	50.1	50.5	50.9
100°	63.2	63.4	63.8	64.7	65.6	66.5	67.4	67.6	67.8	68.0	68.2
102.5°	82.4	82.4	82.8	83.6	84.3	85.1	85.9	86.2	86.5	86.8	87.1
105°	103.1	103.1	103.3	103.7	104.1	104.5	104.9	105.2	105.5	105.8	106.1
107.5°	124.7	124.7	124.7	124.8	124.9	125.0	125.1	125.5	125.9	126.3	126.7
110°	147.1	147.2	147.1	147.0	146.9	146.8	146.7	146.5	146.3	146.1	145.9

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	169.2	169.2	169.1	168.9	168.7	168.5	168.3	168.3	168.3	168.3	168.3
115°	192.1	192.1	192.0	191.8	191.6	191.4	191.2	191.1	191.0	190.9	190.8
117.5°	213.7	213.7	213.7	213.6	213.5	213.4	213.3	213.0	212.7	212.4	212.1
120°	236.9	237.1	236.9	236.6	236.3	236.0	235.7	235.2	234.7	234.2	233.7
122.5°	258.2	258.2	258.2	258.1	258.0	257.9	257.8	257.5	257.2	256.9	256.6
125°	279.8	279.8	279.8	279.7	279.6	279.5	279.4	279.2	279.0	278.8	278.6
127.5°	300.8	300.9	300.8	300.6	300.5	300.3	300.1	299.9	299.7	299.5	299.3
130°	322.0	322.1	322.1	322.1	322.1	322.1	322.1	321.9	321.7	321.5	321.3
132.5°	343.1	343.2	343.2	343.1	343.0	342.9	342.8	342.6	342.4	342.2	342.0
135°	363.2	363.5	363.5	363.5	363.5	363.5	363.5	363.3	363.1	362.9	362.7
137.5°	382.8	382.9	383.0	383.2	383.4	383.6	383.8	383.5	383.2	382.9	382.6
140°	403.1	403.2	403.2	403.2	403.2	403.2	403.2	403.1	403.0	402.9	402.8
142.5°	422.0	422.1	422.1	422.0	421.9	421.8	421.7	421.7	421.7	421.7	421.7
145°	440.0	440.2	440.2	440.3	440.4	440.5	440.6	440.5	440.4	440.3	440.2
147.5°	458.0	458.2	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4
150°	473.5	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7
152.5°	487.7	487.8	487.8	487.9	488.0	488.1	488.2	488.5	488.8	489.1	489.4
155°	502.3	502.3	502.3	502.2	502.1	502.0	501.9	502.3	502.7	503.0	503.4
157.5°	514.7	514.6	514.6	514.6	514.6	514.6	514.6	514.9	515.2	515.5	515.8
160°	526.6	526.5	526.5	526.4	526.3	526.2	526.1	526.4	526.7	527.0	527.3
162.5°	536.4	536.2	536.2	536.1	536.0	535.9	535.8	536.4	537.0	537.5	538.1
165°	545.6	545.5	545.4	545.2	545.0	544.8	544.6	545.2	545.8	546.4	547.0
167.5°	552.7	552.5	552.5	552.5	552.5	552.5	552.5	553.1	553.7	554.3	554.9
170°	558.5	558.3	558.3	558.4	558.5	558.6	558.7	559.3	559.9	560.5	561.1
172.5°	563.3	563.1	563.1	563.1	563.1	563.1	563.1	563.8	564.5	565.2	565.9
175°	566.8	566.6	566.6	566.5	566.4	566.3	566.2	566.9	567.6	568.3	569.0
177.5°	568.6	568.4	568.4	568.4	568.4	568.4	568.4	569.1	569.8	570.5	571.2
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_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°	20.7	20.7	20.8	20.9	21.0	21.1	21.0	20.9	20.8	20.7	20.7
95°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
97.5°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
100°	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
102.5°	87.2	87.3	87.4	87.5	87.6	87.7	87.6	87.5	87.4	87.3	87.2
105°	106.2	106.3	106.6	106.9	107.2	107.5	107.2	106.9	106.6	106.3	106.2
107.5°	126.9	126.9	126.8	126.7	126.6	126.5	126.6	126.7	126.8	126.9	126.9
110°	145.8	146.0	146.3	146.6	146.9	147.2	146.9	146.6	146.3	146.0	145.8

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
115°	190.8	190.7	190.6	190.5	190.4	190.3	190.4	190.5	190.6	190.7	190.8
117.5°	211.9	211.8	211.5	211.2	210.9	210.6	210.9	211.2	211.5	211.8	211.9
120°	233.5	233.6	233.8	234.0	234.2	234.4	234.2	234.0	233.8	233.6	233.5
122.5°	256.4	256.2	255.7	255.2	254.7	254.2	254.7	255.2	255.7	256.2	256.4
125°	278.5	278.4	278.2	278.0	277.8	277.6	277.8	278.0	278.2	278.4	278.5
127.5°	299.2	299.1	299.0	298.9	298.8	298.7	298.8	298.9	299.0	299.1	299.2
130°	321.2	321.0	320.6	320.3	319.9	319.5	319.9	320.3	320.6	321.0	321.2
132.5°	341.9	341.9	341.8	341.7	341.6	341.5	341.6	341.7	341.8	341.9	341.9
135°	362.6	362.5	362.2	361.9	361.6	361.3	361.6	361.9	362.2	362.5	362.6
137.5°	382.5	382.5	382.6	382.7	382.8	382.9	382.8	382.7	382.6	382.5	382.5
140°	402.7	402.7	402.6	402.5	402.4	402.3	402.4	402.5	402.6	402.7	402.7
142.5°	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7	421.7
145°	440.2	440.1	439.8	439.5	439.2	438.9	439.2	439.5	439.8	440.1	440.2
147.5°	457.4	457.3	457.2	457.1	457.0	456.9	457.0	457.1	457.2	457.3	457.4
150°	473.7	473.6	473.5	473.4	473.3	473.2	473.3	473.4	473.5	473.6	473.7
152.5°	489.5	489.4	489.1	488.8	488.5	488.2	488.5	488.8	489.1	489.4	489.5
155°	503.6	503.4	503.0	502.7	502.3	501.9	502.3	502.7	503.0	503.4	503.6
157.5°	516.0	515.8	515.5	515.2	514.9	514.6	514.9	515.2	515.5	515.8	516.0
160°	527.4	527.2	526.7	526.2	525.7	525.2	525.7	526.2	526.7	527.2	527.4
162.5°	538.4	538.2	537.7	537.2	536.7	536.2	536.7	537.2	537.7	538.2	538.4
165°	547.3	547.1	546.7	546.3	545.9	545.5	545.9	546.3	546.7	547.1	547.3
167.5°	555.2	554.9	554.3	553.7	553.1	552.5	553.1	553.7	554.3	554.9	555.2
170°	561.4	561.1	560.4	559.7	559.0	558.3	559.0	559.7	560.4	561.1	561.4
172.5°	566.2	565.9	565.2	564.5	563.8	563.1	563.8	564.5	565.2	565.9	566.2
175°	569.3	569.0	568.3	567.6	566.9	566.2	566.9	567.6	568.3	569.0	569.3
177.5°	571.5	571.1	570.3	569.6	568.8	568.0	568.8	569.6	570.3	571.1	571.5
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

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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°	20.6	20.3	20.0	19.7	19.4	18.9	18.4	17.9	17.4	17.2	16.6
95°	34.7	34.4	34.1	33.8	33.5	32.8	32.1	31.4	30.7	30.4	30.0
97.5°	50.9	50.5	50.1	49.7	49.3	48.5	47.7	47.0	46.2	45.8	45.4
100°	68.2	68.0	67.8	67.6	67.4	66.5	65.6	64.7	63.8	63.4	63.2
102.5°	87.1	86.8	86.5	86.2	85.9	85.1	84.3	83.6	82.8	82.4	82.4
105°	106.1	105.8	105.5	105.2	104.9	104.5	104.1	103.7	103.3	103.1	103.1
107.5°	126.7	126.3	125.9	125.5	125.1	125.0	124.9	124.8	124.7	124.7	124.7
110°	145.9	146.1	146.3	146.5	146.7	146.8	146.9	147.0	147.1	147.2	147.1

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CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	168.3	168.3	168.3	168.3	168.3	168.5	168.7	168.9	169.1	169.2	169.2
115°	190.8	190.9	191.0	191.1	191.2	191.4	191.6	191.8	192.0	192.1	192.1
117.5°	212.1	212.4	212.7	213.0	213.3	213.4	213.5	213.6	213.7	213.7	213.7
120°	233.7	234.2	234.7	235.2	235.7	236.0	236.3	236.6	236.9	237.1	236.9
122.5°	256.6	256.9	257.2	257.5	257.8	257.9	258.0	258.1	258.2	258.2	258.2
125°	278.6	278.8	279.0	279.2	279.4	279.5	279.6	279.7	279.8	279.8	279.8
127.5°	299.3	299.5	299.7	299.9	300.1	300.3	300.5	300.6	300.8	300.9	300.8
130°	321.3	321.5	321.7	321.9	322.1	322.1	322.1	322.1	322.1	322.1	322.0
132.5°	342.0	342.2	342.4	342.6	342.8	342.9	343.0	343.1	343.2	343.2	343.1
135°	362.7	362.9	363.1	363.3	363.5	363.5	363.5	363.5	363.5	363.5	363.2
137.5°	382.6	382.9	383.2	383.5	383.8	383.6	383.4	383.2	383.0	382.9	382.8
140°	402.8	402.9	403.0	403.1	403.2	403.2	403.2	403.2	403.2	403.2	403.1
142.5°	421.7	421.7	421.7	421.7	421.7	421.8	421.9	422.0	422.1	422.1	422.0
145°	440.2	440.3	440.4	440.5	440.6	440.5	440.4	440.3	440.2	440.2	440.0
147.5°	457.4	457.5	457.6	457.7	457.8	457.9	458.0	458.1	458.2	458.2	458.0
150°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.5
152.5°	489.4	489.1	488.8	488.5	488.2	488.1	488.0	487.9	487.8	487.8	487.7
155°	503.4	503.0	502.7	502.3	501.9	502.0	502.1	502.2	502.3	502.3	502.3
157.5°	515.8	515.5	515.2	514.9	514.6	514.6	514.6	514.6	514.6	514.6	514.7
160°	527.3	527.0	526.7	526.4	526.1	526.2	526.3	526.4	526.5	526.5	526.6
162.5°	538.1	537.5	537.0	536.4	535.8	535.9	536.0	536.1	536.2	536.2	536.4
165°	547.0	546.4	545.8	545.2	544.6	544.8	545.0	545.2	545.4	545.5	545.6
167.5°	554.9	554.3	553.7	553.1	552.5	552.5	552.5	552.5	552.5	552.5	552.7
170°	561.1	560.5	559.9	559.3	558.7	558.6	558.5	558.4	558.3	558.3	558.5
172.5°	565.9	565.2	564.5	563.8	563.1	563.1	563.1	563.1	563.1	563.1	563.3
175°	569.0	568.3	567.6	566.9	566.2	566.3	566.4	566.5	566.6	566.6	566.8
177.5°	571.2	570.5	569.8	569.1	568.4	568.4	568.4	568.4	568.4	568.4	568.6
180°	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_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°	15.3	14.0	12.8	11.5
95°	29.1	28.2	27.3	26.4
97.5°	44.6	43.9	43.1	42.3
100°	62.8	62.5	62.1	61.7
102.5°	82.3	82.2	82.1	82.0
105°	103.0	102.9	102.8	102.7
107.5°	124.6	124.5	124.4	124.3
110°	146.9	146.7	146.5	146.3

TEST NUMBER: P1033019

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A1_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	169.2	169.2	169.2	169.2
115°	192.1	192.1	192.1	192.1
117.5°	213.7	213.7	213.7	213.7
120°	236.5	236.1	235.7	235.3
122.5°	258.1	258.0	257.9	257.8
125°	279.8	279.8	279.8	279.8
127.5°	300.5	300.2	299.9	299.6
130°	321.7	321.4	321.1	320.8
132.5°	342.9	342.8	342.6	342.4
135°	362.6	362.1	361.5	360.9
137.5°	382.5	382.2	381.9	381.6
140°	402.9	402.7	402.5	402.3
142.5°	421.8	421.6	421.4	421.2
145°	439.6	439.2	438.8	438.4
147.5°	457.5	457.0	456.5	456.0
150°	473.1	472.7	472.3	471.9
152.5°	487.5	487.3	487.1	486.9
155°	502.3	502.3	502.3	502.3
157.5°	514.9	515.1	515.3	515.5
160°	526.7	526.8	526.9	527.0
162.5°	536.7	537.0	537.3	537.6
165°	545.9	546.2	546.5	546.8
167.5°	553.1	553.5	553.9	554.3
170°	559.0	559.5	560.0	560.5
172.5°	563.7	564.1	564.5	564.9
175°	567.3	567.8	568.3	568.8
177.5°	569.1	569.6	570.1	570.6
180°	569.7	569.7	569.7	569.7

(END OF REPORT)