

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: P1033021

Luminaire Tested: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033021
REPORT IS A COMBINATION OF REPORTS P1000620 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_3000K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

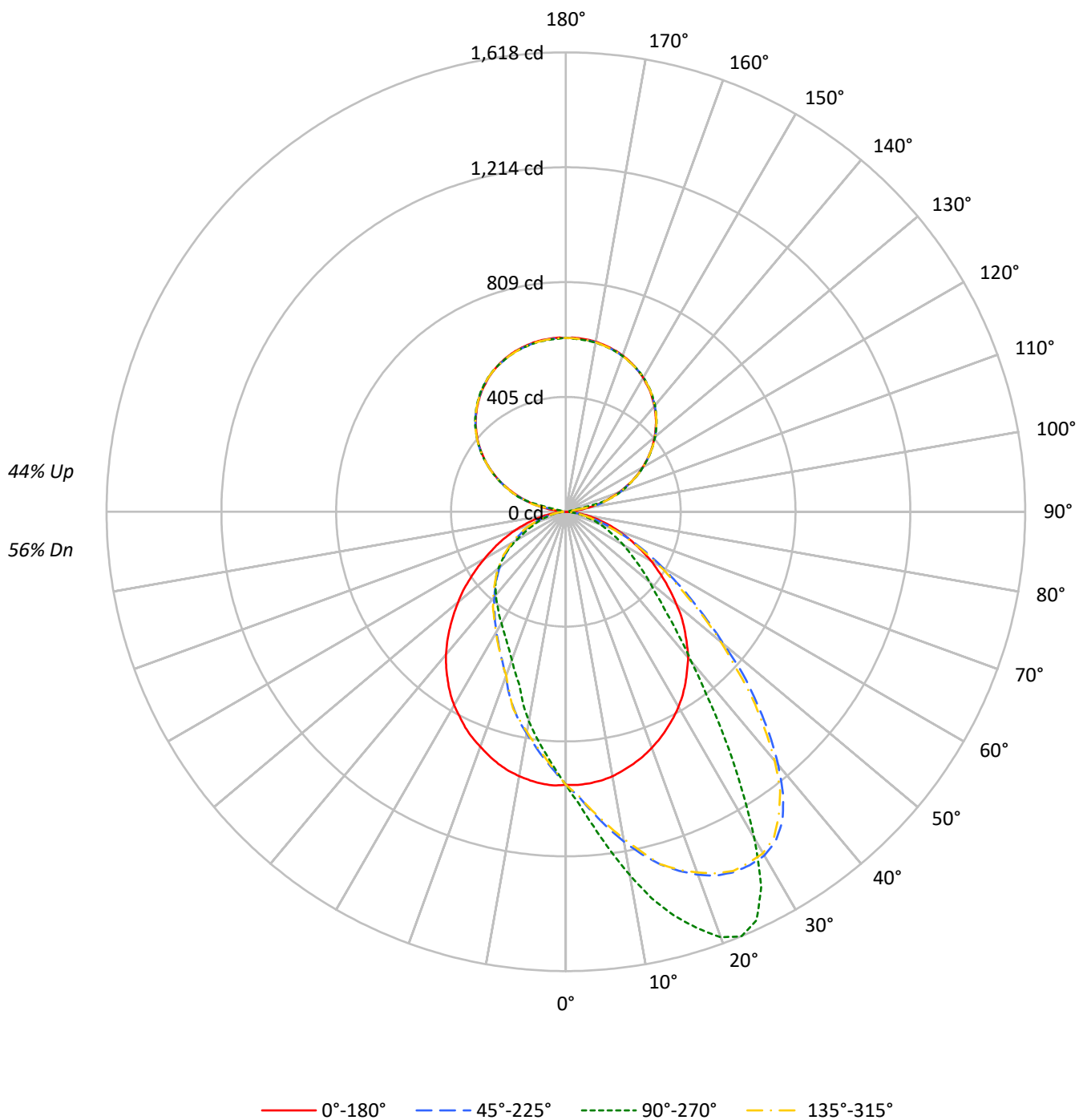
Lumens per Lamp: N/A
Luminaire Lumens: 4328.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56		
1	100	96	92	88	93	89	86	83	77	75	72	66	64	63	55	54	53	48		
2	91	84	78	73	85	78	73	69	68	64	61	58	56	53	49	47	46	41		
3	84	74	67	61	77	69	63	58	60	56	52	52	48	45	44	42	39	36		
4	77	66	58	52	71	62	55	50	54	49	44	47	43	39	40	37	34	31		
5	71	59	51	45	65	55	48	43	49	43	39	42	38	34	36	33	30	27		
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24		
7	60	48	40	35	56	45	38	33	40	34	30	35	30	27	30	27	24	21		
8	56	44	36	31	52	41	34	30	37	31	27	32	27	24	28	24	22	19		
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20	17		
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	24	20	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7842	7842	7842	7842
5°	7842	8861	7855	6773
10°	7800	10214	7794	5890
15°	7708	11496	7708	4932
20°	7611	12465	7570	4342
25°	7491	12517	7457	3922
30°	7365	10644	7308	3633
35°	7187	8031	7096	3417
40°	6989	5820	6851	3249
45°	6661	4423	6495	3100
50°	6272	3575	6100	2882
55°	5850	2960	5660	2591
60°	5427	2503	5185	2155
65°	4895	2040	4739	1713
70°	4408	1654	4201	1391
75°	3864	1192	3596	1020
80°	3187	789	2900	750
85°	2314	407	1914	407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 9817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	2.2
10°-20°	281.2	6.5
20°-30°	440.5	10.2
30°-40°	489.1	11.3
40°-50°	433.5	10.0
50°-60°	337.8	7.8
60°-70°	221.0	5.1
70°-80°	108.4	2.5
80°-90°	27.7	0.6
90°-100°	20.3	0.5
100°-110°	133.9	3.1
110°-120°	255.7	5.9
120°-130°	324.6	7.5
130°-140°	347.3	8.0
140°-150°	324.8	7.5
150°-160°	261.9	6.1
160°-170°	168.9	3.9
170°-180°	58.2	1.3
0°-30°	814.8	18.8
0°-40°	1304.0	30.1
0°-60°	2075.2	47.9
0°-90°	2432.3	56.2
90°-120°	410.0	9.5
90°-150°	1406.7	32.5
90°-180°	1896.0	43.8
0°-180°	4328.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	960	1111	962	849	960	91
15°	919	1472	919	632	919	259
25°	842	1588	838	498	842	388
35°	735	978	725	416	735	459
45°	592	500	577	350	592	457
55°	426	298	412	261	426	381
65°	267	174	259	146	267	267
75°	134	81	125	69	134	142
85°	32	19	26	19	32	36
90°	1	14	1	14	1	3
95°	25	13	25	13	25	31
105°	138	131	138	131	138	144
115°	258	259	258	259	258	253
125°	362	365	362	365	362	323
135°	449	452	449	452	449	346
145°	518	520	518	520	518	324
155°	568	567	568	567	568	262
165°	599	596	599	596	599	169
175°	613	609	613	609	613	58
180°	613	613	613	613	613	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	963.2	971.7	976.4	980.3	988.0	991.1	997.3	998.9	1005.1	1004.3	1002.0
5°	960.1	974.8	985.7	997.3	1011.3	1019.0	1027.5	1039.9	1046.1	1054.7	1060.1
7.5°	954.7	974.8	992.7	1010.5	1033.0	1045.4	1056.2	1075.6	1091.9	1105.8	1121.3
10°	946.2	971.7	998.1	1022.1	1053.1	1067.8	1084.1	1112.8	1135.3	1154.6	1179.4
12.5°	933.0	968.6	998.1	1030.6	1070.2	1090.3	1112.0	1146.1	1172.5	1204.2	1235.2
15°	919.1	958.6	997.3	1039.9	1084.9	1108.1	1129.8	1175.6	1215.8	1252.3	1286.4
17.5°	903.6	947.0	989.6	1036.8	1091.1	1119.8	1145.3	1200.3	1244.5	1291.8	1325.9
20°	885.0	932.2	981.0	1033.7	1095.0	1126.7	1155.4	1218.2	1267.0	1318.1	1360.8
22.5°	864.8	916.0	969.4	1026.8	1090.3	1125.2	1158.5	1225.9	1282.5	1329.8	1387.1
25°	842.3	896.6	951.6	1012.0	1083.3	1121.3	1155.4	1222.0	1282.5	1344.5	1400.3
27.5°	819.1	874.9	932.2	995.8	1068.6	1105.8	1144.6	1208.9	1279.4	1346.8	1403.4
30°	793.5	847.8	908.2	968.6	1046.1	1083.3	1122.9	1192.6	1269.3	1336.7	1398.0
32.5°	765.6	821.4	878.8	941.5	1017.5	1057.8	1094.2	1173.2	1251.5	1318.1	1375.5
35°	734.6	787.3	841.6	905.9	981.0	1017.5	1060.9	1143.0	1222.0	1292.6	1329.8
37.5°	701.3	751.7	802.0	865.6	937.7	981.8	1024.4	1107.4	1191.1	1238.3	1257.7
40°	670.3	714.5	758.6	819.9	892.7	938.4	981.8	1067.8	1141.5	1177.9	1163.2
42.5°	630.8	676.5	716.0	772.6	846.2	888.8	933.0	1022.1	1081.8	1096.5	1060.1
45°	592.0	630.0	668.0	723.0	800.5	836.9	884.2	967.1	1016.7	1003.5	950.1
47.5°	554.1	585.1	620.7	674.2	743.9	787.3	831.5	903.6	938.4	919.8	845.4
50°	509.1	540.1	577.3	623.8	691.2	733.1	767.9	834.6	860.9	815.2	725.3
52.5°	466.5	493.6	525.4	568.8	633.1	671.1	709.1	766.4	774.9	722.2	627.7
55°	426.2	447.9	481.2	516.1	575.0	615.3	641.6	690.5	688.1	622.3	540.9
57.5°	384.4	404.5	427.0	463.4	519.2	549.4	578.1	620.7	598.2	542.4	461.9
60°	347.2	358.8	381.3	416.1	463.4	489.7	512.2	535.5	516.1	455.7	393.7
62.5°	306.1	319.3	335.5	363.4	405.3	430.1	446.4	456.4	436.3	389.8	333.2
65°	267.3	279.0	296.0	320.8	352.6	371.2	379.7	386.7	375.8	323.1	278.2
67.5°	232.5	240.2	255.7	272.0	306.1	310.7	322.4	325.5	303.8	263.5	227.8
70°	197.6	205.4	212.3	231.7	247.2	255.7	258.0	258.0	236.4	210.0	180.6
72.5°	165.1	169.7	176.7	189.9	198.4	204.6	207.7	203.8	183.7	162.0	140.3
75°	134.1	136.4	142.6	151.1	158.1	155.8	155.0	150.3	135.6	120.1	107.7
77.5°	103.1	104.6	111.6	113.9	113.9	116.2	113.1	108.5	96.1	84.5	79.0
80°	77.5	79.8	80.6	82.1	80.6	80.6	78.3	70.5	64.3	58.9	55.0
82.5°	53.5	55.0	55.8	53.5	55.0	52.7	48.8	43.4	39.5	38.7	37.2
85°	31.8	32.5	31.8	31.8	29.4	28.7	25.6	24.8	23.2	23.2	22.5
87.5°	15.5	14.7	13.2	11.6	11.6	10.8	11.6	10.1	11.6	10.8	10.1
90°	1.4	2.5	3.6	4.7	5.8	6.4	6.8	7.6	8.5	9.3	10.1
92.5°	6.9	6.7	6.5	6.3	6.1	6.0	6.4	7.2	8.0	8.8	9.6
95°	25.2	21.7	18.3	14.8	11.3	9.6	9.7	9.8	9.9	10.0	10.1
97.5°	48.1	50.3	52.6	54.8	57.1	58.2	52.9	42.2	31.5	20.8	10.1
100°	75.1	76.9	78.8	80.6	82.5	83.4	76.4	62.3	48.3	34.2	20.2
102.5°	105.4	106.6	107.8	109.1	110.3	110.9	111.5	112.7	114.0	115.2	116.4
105°	137.9	138.5	139.1	139.8	140.4	140.7	141.0	141.5	142.0	142.5	143.0
107.5°	167.7	168.0	168.3	168.6	168.9	169.1	169.5	170.2	170.9	171.6	172.3
110°	198.0	198.3	198.6	198.9	199.2	199.3	199.6	200.2	200.9	201.5	202.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	227.3	227.9	228.5	229.1	229.7	230.0	230.1	230.3	230.5	230.7	230.9
115°	257.5	257.8	258.1	258.4	258.7	258.9	258.8	258.7	258.6	258.5	258.4
117.5°	284.6	285.0	285.4	285.8	286.2	286.4	286.6	286.9	287.2	287.5	287.8
120°	312.0	312.4	312.8	313.3	313.7	313.9	313.8	313.7	313.6	313.5	313.4
122.5°	337.7	337.9	338.1	338.3	338.5	338.6	338.7	338.9	339.1	339.3	339.5
125°	362.0	362.4	362.8	363.2	363.6	363.8	363.7	363.5	363.3	363.1	362.9
127.5°	385.4	385.5	385.6	385.7	385.8	385.8	386.1	386.6	387.1	387.6	388.1
130°	407.8	407.9	408.0	408.1	408.2	408.3	408.5	408.8	409.1	409.4	409.7
132.5°	428.4	428.6	428.8	429.1	429.3	429.4	429.6	430.0	430.4	430.8	431.2
135°	449.1	449.0	448.9	448.8	448.7	448.6	448.8	449.2	449.6	450.0	450.4
137.5°	467.4	467.4	467.4	467.4	467.4	467.4	467.7	468.2	468.7	469.2	469.7
140°	485.3	485.5	485.7	485.9	486.1	486.2	486.3	486.5	486.7	486.9	487.1
142.5°	501.3	501.7	502.1	502.5	502.9	503.1	503.2	503.3	503.4	503.5	503.6
145°	517.8	518.1	518.4	518.7	519.0	519.2	519.2	519.2	519.2	519.2	519.2
147.5°	530.6	531.2	531.8	532.5	533.1	533.4	533.3	533.2	533.1	533.0	532.9
150°	544.8	545.2	545.6	546.1	546.5	546.7	546.6	546.5	546.4	546.3	546.2
152.5°	556.7	557.0	557.3	557.6	557.9	558.1	558.0	557.8	557.6	557.4	557.2
155°	567.7	567.8	567.9	568.0	568.1	568.2	568.0	567.7	567.4	567.1	566.8
157.5°	577.4	577.4	577.4	577.4	577.4	577.4	577.2	576.8	576.3	575.9	575.5
160°	585.6	585.3	585.0	584.7	584.4	584.2	584.2	584.1	584.0	583.9	583.8
162.5°	592.9	592.5	592.1	591.7	591.3	591.1	591.0	590.9	590.8	590.7	590.6
165°	598.9	598.4	597.9	597.4	596.9	596.6	596.6	596.6	596.6	596.6	596.6
167.5°	603.9	603.4	602.9	602.4	601.9	601.6	601.6	601.5	601.4	601.3	601.2
170°	608.1	607.5	606.9	606.2	605.6	605.3	605.4	605.5	605.6	605.7	605.8
172.5°	610.8	610.2	609.6	609.0	608.4	608.1	608.1	608.2	608.3	608.4	608.5
175°	612.6	612.0	611.4	610.8	610.2	609.9	610.0	610.1	610.2	610.3	610.4
177.5°	614.0	613.3	612.6	611.9	611.2	610.8	610.9	611.1	611.3	611.5	611.7
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	1008.2	1016.7	1017.5	1025.2	1022.9	1019.0	1026.0	1021.3	1030.6	1027.5	1031.4
5°	1067.1	1078.7	1088.8	1095.0	1105.8	1103.5	1115.1	1111.2	1119.8	1111.2	1122.1
7.5°	1136.0	1155.4	1165.5	1181.8	1186.4	1187.2	1201.1	1204.2	1209.6	1204.2	1210.4
10°	1203.4	1226.7	1249.9	1263.1	1271.6	1283.3	1295.7	1301.1	1305.0	1299.5	1303.4
12.5°	1264.7	1301.1	1326.7	1353.0	1359.2	1369.3	1382.5	1380.9	1396.4	1393.3	1400.3
15°	1321.2	1361.5	1392.5	1413.5	1430.5	1439.0	1463.8	1465.4	1464.6	1472.3	1467.7
17.5°	1371.6	1405.7	1449.9	1477.0	1497.9	1497.9	1511.9	1540.5	1538.2	1537.4	1542.1
20°	1412.7	1451.4	1492.5	1538.2	1555.3	1558.4	1577.7	1592.5	1594.8	1594.8	1594.8
22.5°	1443.7	1489.4	1533.6	1566.1	1579.3	1590.1	1607.2	1616.5	1619.6	1618.0	1619.6
25°	1459.2	1502.6	1547.5	1577.0	1584.7	1590.9	1592.5	1597.9	1597.1	1587.8	1593.2
27.5°	1462.3	1504.1	1533.6	1541.3	1537.4	1533.6	1508.8	1511.1	1504.1	1490.2	1495.6
30°	1448.3	1470.8	1470.0	1446.0	1439.0	1422.8	1400.3	1367.0	1339.8	1328.2	1332.1
32.5°	1398.0	1398.0	1370.1	1315.8	1291.8	1262.3	1222.0	1191.8	1156.2	1148.4	1163.2
35°	1328.2	1288.7	1237.5	1166.3	1129.8	1108.1	1038.4	1016.7	986.5	977.9	984.9
37.5°	1219.7	1153.9	1079.5	1012.8	981.8	943.1	881.9	850.9	829.2	814.4	821.4
40°	1098.1	1018.2	940.8	858.6	824.5	792.7	747.0	719.1	684.3	685.8	688.1
42.5°	981.8	888.1	801.3	725.3	692.8	666.4	634.7	600.6	588.2	584.3	580.4
45°	858.6	758.6	677.3	620.7	591.3	566.5	537.0	517.6	502.9	499.8	503.7
47.5°	742.4	657.9	580.4	527.7	503.7	491.3	468.1	450.2	440.9	433.2	437.8
50°	637.0	557.9	495.9	451.8	434.7	426.2	404.5	395.2	385.9	383.6	382.8
52.5°	550.2	482.8	429.3	393.7	380.5	375.8	359.6	346.4	338.6	341.0	342.5
55°	471.2	413.8	372.0	343.3	332.4	327.0	315.4	306.1	300.7	298.3	299.9
57.5°	401.4	351.8	321.6	298.3	289.8	287.5	275.1	272.0	268.1	265.8	265.8
60°	337.9	303.0	275.1	261.9	252.6	250.3	241.0	237.1	236.4	234.0	232.5
62.5°	284.4	255.7	236.4	222.4	218.5	217.8	211.6	206.9	204.6	203.0	203.0
65°	237.9	217.0	200.7	190.6	187.5	186.0	179.0	177.5	175.9	174.4	173.6
67.5°	198.4	179.8	168.2	161.2	157.3	158.1	154.2	151.1	151.1	150.3	149.6
70°	160.4	148.8	138.7	134.8	133.3	131.7	130.2	127.9	127.1	127.1	127.1
72.5°	126.3	118.6	113.1	110.8	109.3	107.7	106.2	106.2	106.2	105.4	105.4
75°	96.9	93.8	89.9	87.6	87.6	89.1	86.8	84.5	82.1	80.6	81.4
77.5°	72.8	71.3	69.0	65.1	65.9	64.3	64.3	62.8	63.5	63.5	62.0
80°	53.5	51.1	50.4	48.0	48.8	48.0	47.3	47.3	45.7	45.7	45.7
82.5°	37.2	34.9	34.9	34.1	33.3	33.3	32.5	32.5	33.3	31.8	31.8
85°	22.5	21.7	21.7	20.1	20.1	20.1	20.1	20.9	20.1	19.4	19.4
87.5°	10.1	10.8	10.1	9.3	9.3	9.3	8.5	8.5	7.7	8.5	8.5
90°	10.7	11.3	11.9	12.5	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	10.2	10.8	11.5	12.1	12.4	12.4	12.4	12.4	12.4	12.4	12.4
95°	10.7	11.3	11.9	12.5	12.8	12.9	13.0	13.1	13.2	13.3	13.2
97.5°	10.6	11.1	11.6	12.1	12.4	12.4	12.5	12.6	12.7	12.8	12.7
100°	18.5	16.7	15.0	13.3	12.4	12.4	12.5	12.6	12.7	12.8	12.7
102.5°	93.5	70.6	47.7	24.8	13.3	13.3	13.3	13.3	13.3	13.3	13.3
105°	143.9	144.8	145.7	146.6	147.1	145.3	141.6	137.9	134.3	130.6	134.3
107.5°	172.8	173.3	173.8	174.3	174.6	174.8	175.2	175.6	176.0	176.4	176.0
110°	202.3	202.5	202.7	202.9	203.0	203.2	203.5	203.8	204.1	204.4	204.1

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	230.8	230.7	230.6	230.5	230.5	230.7	231.1	231.5	231.9	232.3	231.9
115°	258.6	258.8	259.1	259.3	259.4	259.4	259.4	259.4	259.4	259.4	259.4
117.5°	287.7	287.6	287.5	287.4	287.3	287.3	287.3	287.3	287.3	287.3	287.3
120°	313.6	313.8	314.0	314.2	314.3	314.2	314.0	313.8	313.6	313.4	313.6
122.5°	339.6	339.7	339.8	339.9	340.0	339.9	339.7	339.5	339.3	339.1	339.3
125°	363.2	363.5	363.8	364.1	364.3	364.3	364.4	364.5	364.6	364.7	364.6
127.5°	388.0	387.9	387.8	387.7	387.7	387.6	387.5	387.4	387.3	387.2	387.3
130°	409.8	409.9	410.0	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1
132.5°	431.3	431.4	431.5	431.6	431.6	431.6	431.5	431.4	431.3	431.2	431.3
135°	450.6	450.8	451.0	451.2	451.3	451.4	451.6	451.9	452.1	452.3	452.1
137.5°	469.9	470.1	470.3	470.5	470.6	470.5	470.4	470.3	470.2	470.1	470.2
140°	487.4	487.7	488.0	488.3	488.5	488.5	488.6	488.7	488.8	488.9	488.8
142.5°	503.8	504.0	504.2	504.4	504.5	504.5	504.5	504.5	504.5	504.5	504.5
145°	519.3	519.4	519.5	519.6	519.6	519.7	519.9	520.1	520.3	520.5	520.3
147.5°	533.0	533.1	533.2	533.3	533.4	533.4	533.5	533.6	533.7	533.8	533.7
150°	546.2	546.2	546.2	546.2	546.2	546.3	546.4	546.5	546.6	546.7	546.6
152.5°	557.4	557.6	557.8	558.0	558.1	558.1	558.0	557.9	557.8	557.7	557.8
155°	567.2	567.6	568.1	568.5	568.7	568.5	568.2	567.9	567.6	567.3	567.6
157.5°	576.0	576.5	577.0	577.5	577.8	577.5	577.0	576.5	576.0	575.5	576.0
160°	584.4	585.0	585.6	586.2	586.5	586.2	585.6	585.0	584.4	583.8	584.4
162.5°	591.2	591.8	592.5	593.1	593.4	593.0	592.3	591.6	590.9	590.2	590.9
165°	597.4	598.2	599.1	599.9	600.3	599.8	598.9	598.0	597.0	596.1	597.0
167.5°	602.1	603.0	603.9	604.8	605.3	604.8	603.8	602.7	601.7	600.7	601.7
170°	606.6	607.4	608.2	609.0	609.4	608.9	607.9	606.9	605.9	604.9	605.9
172.5°	609.3	610.1	611.0	611.8	612.2	611.6	610.5	609.4	608.2	607.1	608.2
175°	611.3	612.2	613.1	614.0	614.5	613.9	612.7	611.4	610.2	609.0	610.2
177.5°	612.5	613.3	614.2	615.0	615.4	614.8	613.6	612.3	611.1	609.9	611.1
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	1033.7	1028.3	1027.5	1027.5	1019.0	1023.7	1014.4	1004.3	999.6	999.6	991.1
5°	1119.8	1114.3	1108.9	1100.4	1100.4	1095.7	1081.0	1066.3	1055.4	1046.1	1036.1
7.5°	1208.1	1202.7	1187.2	1178.7	1183.3	1174.0	1154.6	1129.8	1111.2	1096.5	1075.6
10°	1304.2	1289.5	1281.7	1277.1	1260.8	1250.7	1228.2	1191.8	1168.6	1149.2	1122.1
12.5°	1382.5	1387.1	1357.7	1360.0	1343.7	1329.8	1294.9	1260.0	1225.1	1198.0	1157.7
15°	1466.9	1453.0	1435.1	1421.2	1415.8	1398.7	1369.3	1322.8	1284.8	1242.2	1196.5
17.5°	1533.6	1522.7	1505.7	1492.5	1480.9	1439.8	1415.0	1373.9	1322.0	1280.2	1224.4
20°	1590.1	1580.1	1556.0	1547.5	1526.6	1497.1	1461.5	1398.0	1351.5	1305.7	1251.5
22.5°	1614.2	1604.1	1583.2	1572.3	1559.1	1530.5	1496.4	1435.9	1378.6	1321.2	1263.9
25°	1594.0	1594.0	1583.9	1580.1	1568.4	1542.9	1508.0	1456.8	1395.6	1333.6	1265.4
27.5°	1496.4	1515.7	1522.7	1526.6	1526.6	1527.4	1503.3	1453.7	1394.1	1333.6	1262.3
30°	1355.3	1387.9	1416.6	1425.1	1439.8	1456.1	1466.1	1442.1	1388.7	1325.1	1253.8
32.5°	1177.9	1219.7	1273.2	1286.4	1306.5	1355.3	1382.5	1392.5	1363.1	1307.3	1231.3
35°	1001.2	1053.9	1086.4	1126.7	1145.3	1217.4	1277.8	1314.3	1307.3	1274.0	1205.0
37.5°	847.0	877.2	916.7	959.3	996.5	1065.5	1140.7	1211.2	1239.9	1223.6	1171.7
40°	699.0	734.6	781.9	816.8	842.3	911.3	1004.3	1081.0	1143.8	1153.9	1122.1
42.5°	594.4	630.0	658.7	696.7	716.8	783.4	865.6	961.7	1036.1	1075.6	1061.6
45°	513.8	535.5	558.7	580.4	605.2	664.1	740.0	845.4	929.1	984.9	990.3
47.5°	443.3	462.6	482.8	502.9	516.9	562.6	632.3	718.3	809.8	886.5	916.7
50°	393.7	403.0	417.7	429.3	445.6	485.1	540.9	615.3	712.2	795.1	834.6
52.5°	344.8	356.5	368.1	378.2	389.0	416.9	468.1	532.4	616.1	701.3	750.1
55°	303.8	313.1	323.9	330.9	337.1	361.9	400.6	450.2	522.3	602.9	663.3
57.5°	270.4	274.3	283.6	287.5	294.5	314.6	342.5	386.7	444.8	523.1	572.7
60°	234.0	241.8	248.7	251.8	257.3	271.2	290.6	331.7	382.0	439.4	495.9
62.5°	204.6	207.7	213.1	217.0	220.9	235.6	251.8	282.8	320.8	368.9	420.8
65°	177.5	179.0	182.1	187.5	189.9	200.7	210.0	232.5	268.1	304.5	356.5
67.5°	149.6	151.1	155.0	158.1	160.4	167.4	177.5	193.7	213.1	253.4	282.1
70°	127.9	127.9	130.2	131.7	134.1	137.2	142.6	155.0	172.8	198.4	224.7
72.5°	106.9	106.9	106.9	109.3	109.3	111.6	114.7	123.2	135.6	155.8	172.8
75°	82.9	83.7	85.2	85.2	86.0	89.1	91.4	93.8	100.0	113.1	128.6
77.5°	62.8	64.3	65.1	63.5	65.1	65.1	68.2	71.3	74.4	78.3	89.9
80°	46.5	47.3	45.7	46.5	46.5	48.0	49.6	48.8	50.4	55.0	58.1
82.5°	31.0	31.8	31.8	31.8	31.8	34.1	34.1	33.3	34.1	34.9	35.6
85°	19.4	18.6	18.6	19.4	18.6	18.6	19.4	20.1	19.4	20.1	20.9
87.5°	8.5	8.5	8.5	8.5	7.7	7.7	8.5	7.7	8.5	7.7	7.0
90°	13.3	13.1	12.9	12.8	12.5	11.9	11.3	10.7	10.1	9.3	8.5
92.5°	12.4	12.4	12.4	12.4	12.1	11.5	10.8	10.2	9.6	8.8	8.0
95°	13.1	13.0	12.9	12.8	12.5	11.9	11.3	10.7	10.1	10.0	9.9
97.5°	12.6	12.5	12.4	12.4	12.1	11.6	11.1	10.6	10.1	20.8	31.5
100°	12.6	12.5	12.4	12.4	13.3	15.0	16.7	18.5	20.2	34.2	48.3
102.5°	13.3	13.3	13.3	13.3	24.8	47.7	70.6	93.5	116.4	115.2	114.0
105°	137.9	141.6	145.3	147.1	146.6	145.7	144.8	143.9	143.0	142.5	142.0
107.5°	175.6	175.2	174.8	174.6	174.3	173.8	173.3	172.8	172.3	171.6	170.9
110°	203.8	203.5	203.2	203.0	202.9	202.7	202.5	202.3	202.1	201.5	200.9

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	231.5	231.1	230.7	230.5	230.5	230.6	230.7	230.8	230.9	230.7	230.5
115°	259.4	259.4	259.4	259.4	259.3	259.1	258.8	258.6	258.4	258.5	258.6
117.5°	287.3	287.3	287.3	287.3	287.4	287.5	287.6	287.7	287.8	287.5	287.2
120°	313.8	314.0	314.2	314.3	314.2	314.0	313.8	313.6	313.4	313.5	313.6
122.5°	339.5	339.7	339.9	340.0	339.9	339.8	339.7	339.6	339.5	339.3	339.1
125°	364.5	364.4	364.3	364.3	364.1	363.8	363.5	363.2	362.9	363.1	363.3
127.5°	387.4	387.5	387.6	387.7	387.7	387.8	387.9	388.0	388.1	387.6	387.1
130°	410.1	410.1	410.1	410.1	410.1	410.0	409.9	409.8	409.7	409.4	409.1
132.5°	431.4	431.5	431.6	431.6	431.6	431.5	431.4	431.3	431.2	430.8	430.4
135°	451.9	451.6	451.4	451.3	451.2	451.0	450.8	450.6	450.4	450.0	449.6
137.5°	470.3	470.4	470.5	470.6	470.5	470.3	470.1	469.9	469.7	469.2	468.7
140°	488.7	488.6	488.5	488.5	488.3	488.0	487.7	487.4	487.1	486.9	486.7
142.5°	504.5	504.5	504.5	504.5	504.4	504.2	504.0	503.8	503.6	503.5	503.4
145°	520.1	519.9	519.7	519.6	519.6	519.5	519.4	519.3	519.2	519.2	519.2
147.5°	533.6	533.5	533.4	533.4	533.3	533.2	533.1	533.0	532.9	533.0	533.1
150°	546.5	546.4	546.3	546.2	546.2	546.2	546.2	546.2	546.2	546.3	546.4
152.5°	557.9	558.0	558.1	558.1	558.0	557.8	557.6	557.4	557.2	557.4	557.6
155°	567.9	568.2	568.5	568.7	568.5	568.1	567.6	567.2	566.8	567.1	567.4
157.5°	576.5	577.0	577.5	577.8	577.5	577.0	576.5	576.0	575.5	575.9	576.3
160°	585.0	585.6	586.2	586.5	586.2	585.6	585.0	584.4	583.8	583.9	584.0
162.5°	591.6	592.3	593.0	593.4	593.1	592.5	591.8	591.2	590.6	590.7	590.8
165°	598.0	598.9	599.8	600.3	599.9	599.1	598.2	597.4	596.6	596.6	596.6
167.5°	602.7	603.8	604.8	605.3	604.8	603.9	603.0	602.1	601.2	601.3	601.4
170°	606.9	607.9	608.9	609.4	609.0	608.2	607.4	606.6	605.8	605.7	605.6
172.5°	609.4	610.5	611.6	612.2	611.8	611.0	610.1	609.3	608.5	608.4	608.3
175°	611.4	612.7	613.9	614.5	614.0	613.1	612.2	611.3	610.4	610.3	610.2
177.5°	612.3	613.6	614.8	615.4	615.0	614.2	613.3	612.5	611.7	611.5	611.3
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	986.5	982.6	980.3	979.5	972.5	968.6	966.3	964.8	962.4	956.2	950.8
5°	1023.7	1012.8	1007.4	1001.2	990.3	977.9	967.9	961.7	953.9	941.5	929.9
7.5°	1058.5	1042.3	1031.4	1022.9	1004.3	984.1	967.9	954.7	940.0	922.9	906.7
10°	1095.0	1068.6	1054.7	1041.5	1014.4	988.0	964.8	945.4	924.5	902.0	884.2
12.5°	1123.6	1088.8	1073.3	1054.7	1021.3	990.3	960.9	934.6	907.4	883.4	857.8
15°	1157.0	1113.6	1095.7	1071.7	1026.0	985.7	947.7	919.1	891.2	855.5	828.4
17.5°	1176.3	1126.0	1100.4	1079.5	1029.9	981.0	936.9	901.2	868.7	833.0	804.4
20°	1195.7	1138.4	1109.7	1080.2	1021.3	969.4	922.9	880.3	846.2	807.5	778.0
22.5°	1201.9	1135.3	1105.0	1077.9	1015.9	957.8	904.3	860.9	821.4	782.7	749.3
25°	1201.9	1134.5	1098.8	1064.0	998.9	939.2	885.7	838.5	794.3	755.5	722.2
27.5°	1189.5	1119.0	1081.8	1050.0	982.6	918.3	863.3	811.3	768.7	730.0	692.0
30°	1174.0	1096.5	1059.3	1021.3	956.2	895.0	835.4	787.3	742.4	698.2	664.1
32.5°	1154.6	1072.5	1031.4	992.7	923.7	860.2	805.1	757.9	715.3	669.5	631.6
35°	1126.7	1036.8	991.1	957.0	890.4	824.5	771.8	725.3	684.3	637.0	595.9
37.5°	1091.1	1004.3	957.8	916.0	847.0	786.5	736.9	692.0	651.7	608.3	562.6
40°	1049.2	958.6	918.3	874.1	801.3	743.9	697.4	657.1	616.8	575.8	531.6
42.5°	1002.0	912.1	867.1	824.5	754.8	698.2	654.8	618.4	581.2	543.2	495.9
45°	945.4	860.9	817.5	777.2	709.8	651.7	612.2	577.3	545.5	506.8	465.0
47.5°	881.9	808.2	764.1	720.7	654.8	604.4	565.7	536.2	509.1	470.4	432.4
50°	819.9	747.0	711.4	667.2	606.8	559.5	520.0	495.2	474.3	436.3	402.2
52.5°	741.6	686.6	652.5	614.5	556.4	508.3	477.4	455.7	430.9	401.4	371.2
55°	672.6	621.5	594.4	558.7	501.4	458.8	432.4	412.3	392.9	366.5	342.5
57.5°	594.4	562.6	535.5	504.5	447.9	411.5	388.2	371.2	353.4	331.7	312.3
60°	512.2	497.5	471.2	446.4	398.3	366.5	347.2	331.7	314.6	296.8	280.5
62.5°	439.4	430.9	415.4	396.0	351.0	323.9	304.5	292.9	280.5	264.2	248.7
65°	370.4	366.5	351.8	337.9	306.9	282.8	265.8	258.8	244.9	232.5	218.5
67.5°	309.2	304.5	296.0	289.8	263.5	241.0	232.5	223.2	211.6	202.3	190.6
70°	247.2	246.4	241.0	233.3	219.3	203.0	194.5	188.3	176.7	169.7	161.2
72.5°	192.2	196.1	191.4	188.3	179.0	167.4	159.6	155.8	146.5	141.0	134.8
75°	143.4	146.5	148.8	143.4	141.0	135.6	128.6	124.8	120.1	112.4	110.0
77.5°	97.6	104.6	104.6	106.2	106.9	103.8	98.4	95.3	89.9	88.3	85.2
80°	64.3	70.5	71.3	72.8	75.2	75.2	71.3	70.5	65.1	64.3	62.0
82.5°	37.2	42.6	45.7	48.0	47.3	50.4	47.3	46.5	43.4	43.4	41.8
85°	20.1	20.9	22.5	24.0	25.6	27.1	27.1	26.3	25.6	24.8	23.2
87.5°	7.7	7.7	8.5	7.7	8.5	10.1	10.8	10.8	10.1	9.3	7.7
90°	7.6	6.8	6.4	5.8	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	7.2	6.4	6.0	6.1	6.3	6.5	6.7	6.9	6.7	6.5	6.3
95°	9.8	9.7	9.6	11.3	14.8	18.3	21.7	25.2	21.7	18.3	14.8
97.5°	42.2	52.9	58.2	57.1	54.8	52.6	50.3	48.1	50.3	52.6	54.8
100°	62.3	76.4	83.4	82.5	80.6	78.8	76.9	75.1	76.9	78.8	80.6
102.5°	112.7	111.5	110.9	110.3	109.1	107.8	106.6	105.4	106.6	107.8	109.1
105°	141.5	141.0	140.7	140.4	139.8	139.1	138.5	137.9	138.5	139.1	139.8
107.5°	170.2	169.5	169.1	168.9	168.6	168.3	168.0	167.7	168.0	168.3	168.6
110°	200.2	199.6	199.3	199.2	198.9	198.6	198.3	198.0	198.3	198.6	198.9

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	230.3	230.1	230.0	229.7	229.1	228.5	227.9	227.3	227.9	228.5	229.1
115°	258.7	258.8	258.9	258.7	258.4	258.1	257.8	257.5	257.8	258.1	258.4
117.5°	286.9	286.6	286.4	286.2	285.8	285.4	285.0	284.6	285.0	285.4	285.8
120°	313.7	313.8	313.9	313.7	313.3	312.8	312.4	312.0	312.4	312.8	313.3
122.5°	338.9	338.7	338.6	338.5	338.3	338.1	337.9	337.7	337.9	338.1	338.3
125°	363.5	363.7	363.8	363.6	363.2	362.8	362.4	362.0	362.4	362.8	363.2
127.5°	386.6	386.1	385.8	385.8	385.7	385.6	385.5	385.4	385.5	385.6	385.7
130°	408.8	408.5	408.3	408.2	408.1	408.0	407.9	407.8	407.9	408.0	408.1
132.5°	430.0	429.6	429.4	429.3	429.1	428.8	428.6	428.4	428.6	428.8	429.1
135°	449.2	448.8	448.6	448.7	448.8	448.9	449.0	449.1	449.0	448.9	448.8
137.5°	468.2	467.7	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4
140°	486.5	486.3	486.2	486.1	485.9	485.7	485.5	485.3	485.5	485.7	485.9
142.5°	503.3	503.2	503.1	502.9	502.5	502.1	501.7	501.3	501.7	502.1	502.5
145°	519.2	519.2	519.2	519.0	518.7	518.4	518.1	517.8	518.1	518.4	518.7
147.5°	533.2	533.3	533.4	533.1	532.5	531.8	531.2	530.6	531.2	531.8	532.5
150°	546.5	546.6	546.7	546.5	546.1	545.6	545.2	544.8	545.2	545.6	546.1
152.5°	557.8	558.0	558.1	557.9	557.6	557.3	557.0	556.7	557.0	557.3	557.6
155°	567.7	568.0	568.2	568.1	568.0	567.9	567.8	567.7	567.8	567.9	568.0
157.5°	576.8	577.2	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
160°	584.1	584.2	584.2	584.4	584.7	585.0	585.3	585.6	585.3	585.0	584.7
162.5°	590.9	591.0	591.1	591.3	591.7	592.1	592.5	592.9	592.5	592.1	591.7
165°	596.6	596.6	596.6	596.9	597.4	597.9	598.4	598.9	598.4	597.9	597.4
167.5°	601.5	601.6	601.6	601.9	602.4	602.9	603.4	603.9	603.4	602.9	602.4
170°	605.5	605.4	605.3	605.6	606.2	606.9	607.5	608.1	607.5	606.9	606.2
172.5°	608.2	608.1	608.1	608.4	609.0	609.6	610.2	610.8	610.2	609.6	609.0
175°	610.1	610.0	609.9	610.2	610.8	611.4	612.0	612.6	612.0	611.4	610.8
177.5°	611.1	610.9	610.8	611.2	611.9	612.6	613.3	614.0	613.3	612.6	611.9
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	946.2	944.6	943.1	936.9	931.5	922.2	914.4	911.3	910.5	911.3	909.0
5°	919.1	918.3	912.9	902.0	891.9	881.1	873.3	865.6	860.9	860.9	855.5
7.5°	893.5	888.1	883.4	869.5	857.8	843.1	831.5	824.5	820.6	812.1	812.1
10°	866.4	858.6	852.4	839.2	822.2	807.5	792.7	784.2	777.2	771.0	768.7
12.5°	839.2	833.0	821.4	807.5	790.4	771.8	756.3	750.1	733.8	720.7	721.4
15°	813.7	799.7	794.3	774.1	754.0	736.2	713.7	695.9	682.7	674.2	663.3
17.5°	785.0	771.0	761.0	743.9	717.6	689.7	668.0	644.0	630.8	616.1	609.1
20°	753.2	741.6	733.8	706.7	675.0	641.6	617.6	602.9	588.2	577.3	571.1
22.5°	726.1	711.4	702.1	665.7	630.8	597.5	578.9	566.5	554.1	544.8	541.7
25°	691.2	682.7	660.2	628.5	585.8	563.4	547.1	530.8	523.8	517.6	510.7
27.5°	662.6	641.6	626.1	584.3	557.9	532.4	516.1	503.7	495.2	489.0	483.5
30°	626.9	607.5	585.8	551.0	526.9	502.9	488.2	478.1	468.8	465.0	460.3
32.5°	589.7	571.9	551.0	523.1	493.6	475.0	463.4	452.6	446.4	442.5	437.1
35°	556.4	533.9	520.0	493.6	469.6	448.7	437.8	428.5	421.6	420.0	419.2
37.5°	520.7	503.7	490.5	463.4	443.3	425.4	415.4	405.3	401.4	400.6	397.5
40°	489.7	475.0	462.6	437.1	415.4	399.1	391.3	385.1	381.3	381.3	380.5
42.5°	462.6	447.1	434.7	411.5	392.1	377.4	368.9	362.7	361.1	361.9	361.1
45°	432.4	419.2	406.8	382.8	366.5	355.7	346.4	343.3	341.0	341.7	342.5
47.5°	403.7	392.9	380.5	361.1	342.5	330.9	325.5	322.4	322.4	322.4	323.9
50°	378.2	365.8	354.9	334.8	317.7	308.4	303.8	299.9	300.7	301.4	302.2
52.5°	347.9	337.1	329.3	309.2	296.8	285.2	279.7	280.5	279.7	279.7	281.3
55°	321.6	310.7	303.0	284.4	272.0	264.2	259.6	257.3	258.0	256.5	259.6
57.5°	292.1	282.8	277.4	259.6	248.7	241.8	237.9	234.0	235.6	234.8	234.0
60°	266.6	255.7	247.2	234.8	225.5	217.0	214.7	210.8	212.3	210.8	210.0
62.5°	237.1	228.6	222.4	210.0	202.3	195.3	189.9	187.5	186.8	184.4	182.1
65°	207.7	203.0	196.8	184.4	176.7	171.3	168.2	165.8	165.1	158.9	151.9
67.5°	180.6	177.5	171.3	162.0	155.0	149.6	144.9	141.0	136.4	131.7	127.9
70°	155.0	150.3	146.5	137.9	131.7	126.3	121.7	117.0	114.7	110.0	108.5
72.5°	130.2	125.5	121.7	113.9	108.5	103.1	101.5	96.1	93.8	93.0	93.0
75°	104.6	100.7	98.4	91.4	86.8	82.9	80.6	79.0	77.5	75.9	73.6
77.5°	79.8	77.5	75.9	71.3	67.4	65.1	64.3	58.9	57.3	55.8	54.2
80°	58.1	57.3	55.8	51.9	50.4	44.9	44.9	43.4	42.6	42.6	42.6
82.5°	39.5	38.0	37.2	33.3	32.5	31.8	31.0	30.2	31.0	30.2	31.0
85°	20.9	20.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.6	19.4
87.5°	7.7	7.7	7.7	7.7	7.0	7.7	7.7	7.0	7.7	7.7	7.7
90°	5.8	6.4	6.8	7.6	8.5	9.3	10.1	10.7	11.3	11.9	12.5
92.5°	6.1	6.0	6.4	7.2	8.0	8.8	9.6	10.2	10.8	11.5	12.1
95°	11.3	9.6	9.7	9.8	9.9	10.0	10.1	10.7	11.3	11.9	12.5
97.5°	57.1	58.2	52.9	42.2	31.5	20.8	10.1	10.6	11.1	11.6	12.1
100°	82.5	83.4	76.4	62.3	48.3	34.2	20.2	18.5	16.7	15.0	13.3
102.5°	110.3	110.9	111.5	112.7	114.0	115.2	116.4	93.5	70.6	47.7	24.8
105°	140.4	140.7	141.0	141.5	142.0	142.5	143.0	143.9	144.8	145.7	146.6
107.5°	168.9	169.1	169.5	170.2	170.9	171.6	172.3	172.8	173.3	173.8	174.3
110°	199.2	199.3	199.6	200.2	200.9	201.5	202.1	202.3	202.5	202.7	202.9

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	229.7	230.0	230.1	230.3	230.5	230.7	230.9	230.8	230.7	230.6	230.5
115°	258.7	258.9	258.8	258.7	258.6	258.5	258.4	258.6	258.8	259.1	259.3
117.5°	286.2	286.4	286.6	286.9	287.2	287.5	287.8	287.7	287.6	287.5	287.4
120°	313.7	313.9	313.8	313.7	313.6	313.5	313.4	313.6	313.8	314.0	314.2
122.5°	338.5	338.6	338.7	338.9	339.1	339.3	339.5	339.6	339.7	339.8	339.9
125°	363.6	363.8	363.7	363.5	363.3	363.1	362.9	363.2	363.5	363.8	364.1
127.5°	385.8	385.8	386.1	386.6	387.1	387.6	388.1	388.0	387.9	387.8	387.7
130°	408.2	408.3	408.5	408.8	409.1	409.4	409.7	409.8	409.9	410.0	410.1
132.5°	429.3	429.4	429.6	430.0	430.4	430.8	431.2	431.3	431.4	431.5	431.6
135°	448.7	448.6	448.8	449.2	449.6	450.0	450.4	450.6	450.8	451.0	451.2
137.5°	467.4	467.4	467.7	468.2	468.7	469.2	469.7	469.9	470.1	470.3	470.5
140°	486.1	486.2	486.3	486.5	486.7	486.9	487.1	487.4	487.7	488.0	488.3
142.5°	502.9	503.1	503.2	503.3	503.4	503.5	503.6	503.8	504.0	504.2	504.4
145°	519.0	519.2	519.2	519.2	519.2	519.2	519.2	519.3	519.4	519.5	519.6
147.5°	533.1	533.4	533.3	533.2	533.1	533.0	532.9	533.0	533.1	533.2	533.3
150°	546.5	546.7	546.6	546.5	546.4	546.3	546.2	546.2	546.2	546.2	546.2
152.5°	557.9	558.1	558.0	557.8	557.6	557.4	557.2	557.4	557.6	557.8	558.0
155°	568.1	568.2	568.0	567.7	567.4	567.1	566.8	567.2	567.6	568.1	568.5
157.5°	577.4	577.4	577.2	576.8	576.3	575.9	575.5	576.0	576.5	577.0	577.5
160°	584.4	584.2	584.2	584.1	584.0	583.9	583.8	584.4	585.0	585.6	586.2
162.5°	591.3	591.1	591.0	590.9	590.8	590.7	590.6	591.2	591.8	592.5	593.1
165°	596.9	596.6	596.6	596.6	596.6	596.6	596.6	597.4	598.2	599.1	599.9
167.5°	601.9	601.6	601.6	601.5	601.4	601.3	601.2	602.1	603.0	603.9	604.8
170°	605.6	605.3	605.4	605.5	605.6	605.7	605.8	606.6	607.4	608.2	609.0
172.5°	608.4	608.1	608.1	608.2	608.3	608.4	608.5	609.3	610.1	611.0	611.8
175°	610.2	609.9	610.0	610.1	610.2	610.3	610.4	611.3	612.2	613.1	614.0
177.5°	611.2	610.8	610.9	611.1	611.3	611.5	611.7	612.5	613.3	614.2	615.0
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	909.0	912.1	908.2	910.5	905.1	904.3	905.1	905.1	905.9	906.7	907.4
5°	857.8	857.1	852.4	849.3	847.0	849.3	850.9	852.4	850.9	852.4	853.2
7.5°	809.8	807.5	805.1	799.7	801.3	799.7	804.4	802.0	802.0	805.9	809.0
10°	767.2	762.5	761.0	754.8	750.1	749.3	754.8	757.1	759.4	761.0	767.2
12.5°	712.2	705.2	699.8	702.1	688.9	694.3	695.9	692.8	702.1	712.9	706.7
15°	653.3	654.0	643.2	639.3	628.5	631.6	632.3	640.1	647.8	647.1	656.4
17.5°	609.9	605.2	595.9	595.1	590.5	592.8	592.0	598.2	595.9	599.8	607.5
20°	569.6	566.5	558.7	555.6	557.2	555.6	556.4	557.2	559.5	568.0	566.5
22.5°	537.8	533.9	533.9	530.0	525.4	523.8	527.7	530.0	533.1	534.7	538.6
25°	509.9	506.8	502.9	500.6	496.7	497.5	499.8	502.9	505.2	508.3	511.4
27.5°	481.2	481.2	477.4	476.6	475.0	474.3	477.4	478.9	478.9	481.2	484.3
30°	458.8	458.8	454.9	454.1	453.3	453.3	455.7	456.4	457.2	459.5	461.1
32.5°	437.1	436.3	434.7	435.5	434.7	435.5	435.5	436.3	437.8	438.6	441.7
35°	416.9	417.7	416.1	416.1	415.4	416.1	417.7	418.5	419.2	420.8	420.8
37.5°	397.5	399.1	398.3	400.6	400.6	400.6	400.6	402.2	402.2	402.2	401.4
40°	380.5	380.5	379.7	381.3	382.8	382.8	383.6	383.6	384.4	384.4	383.6
42.5°	361.1	362.7	365.0	365.8	367.3	366.5	368.9	368.1	368.9	367.3	365.8
45°	343.3	343.3	346.4	349.5	350.3	350.3	350.3	351.8	350.3	347.9	347.2
47.5°	323.9	325.5	327.0	330.9	331.7	331.7	331.7	331.7	330.1	330.1	330.1
50°	304.5	305.3	306.1	307.6	310.0	309.2	309.2	309.2	312.3	309.2	310.0
52.5°	281.3	282.1	282.8	285.9	285.2	285.2	285.9	285.9	288.3	287.5	285.9
55°	258.0	258.0	259.6	259.6	259.6	261.1	261.9	263.5	262.7	263.5	264.2
57.5°	234.8	233.3	232.5	232.5	234.8	234.0	234.8	234.8	237.9	239.4	240.2
60°	207.7	207.7	206.9	202.3	202.3	201.5	203.8	205.4	206.9	213.9	213.1
62.5°	179.8	176.7	173.6	174.4	169.7	172.0	170.5	172.0	176.7	182.1	182.9
65°	151.9	149.6	146.5	145.7	144.1	146.5	145.7	146.5	148.8	151.9	155.8
67.5°	127.1	126.3	124.8	124.0	124.0	124.0	125.5	125.5	126.3	128.6	131.0
70°	108.5	107.7	108.5	106.9	107.7	106.9	107.7	108.5	109.3	110.0	112.4
72.5°	91.4	91.4	91.4	89.9	91.4	90.7	90.7	91.4	92.2	93.0	94.5
75°	72.8	71.3	69.7	68.2	67.4	69.0	69.7	69.0	71.3	74.4	74.4
77.5°	55.0	54.2	54.2	54.2	55.0	54.2	55.8	55.0	55.8	55.8	57.3
80°	42.6	41.8	42.6	42.6	41.8	43.4	42.6	42.6	43.4	44.2	43.4
82.5°	31.0	31.8	31.0	31.0	31.0	32.5	31.0	31.0	31.0	31.8	31.8
85°	19.4	19.4	19.4	19.4	20.1	19.4	20.1	19.4	20.9	20.1	20.1
87.5°	7.0	7.7	8.5	8.5	8.5	8.5	7.7	8.5	9.3	8.5	9.3
90°	12.8	12.9	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.8
92.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
95°	12.8	12.9	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	12.8
97.5°	12.4	12.4	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	12.4
100°	12.4	12.4	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.4	12.4
102.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
105°	147.1	145.3	141.6	137.9	134.3	130.6	134.3	137.9	141.6	145.3	147.1
107.5°	174.6	174.8	175.2	175.6	176.0	176.4	176.0	175.6	175.2	174.8	174.6
110°	203.0	203.2	203.5	203.8	204.1	204.4	204.1	203.8	203.5	203.2	203.0

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	230.5	230.7	231.1	231.5	231.9	232.3	231.9	231.5	231.1	230.7	230.5
115°	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
117.5°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	287.3	287.3	287.3	287.3
120°	314.3	314.2	314.0	313.8	313.6	313.4	313.6	313.8	314.0	314.2	314.3
122.5°	340.0	339.9	339.7	339.5	339.3	339.1	339.3	339.5	339.7	339.9	340.0
125°	364.3	364.3	364.4	364.5	364.6	364.7	364.6	364.5	364.4	364.3	364.3
127.5°	387.7	387.6	387.5	387.4	387.3	387.2	387.3	387.4	387.5	387.6	387.7
130°	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1	410.1
132.5°	431.6	431.6	431.5	431.4	431.3	431.2	431.3	431.4	431.5	431.6	431.6
135°	451.3	451.4	451.6	451.9	452.1	452.3	452.1	451.9	451.6	451.4	451.3
137.5°	470.6	470.5	470.4	470.3	470.2	470.1	470.2	470.3	470.4	470.5	470.6
140°	488.5	488.5	488.6	488.7	488.8	488.9	488.8	488.7	488.6	488.5	488.5
142.5°	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5	504.5
145°	519.6	519.7	519.9	520.1	520.3	520.5	520.3	520.1	519.9	519.7	519.6
147.5°	533.4	533.4	533.5	533.6	533.7	533.8	533.7	533.6	533.5	533.4	533.4
150°	546.2	546.3	546.4	546.5	546.6	546.7	546.6	546.5	546.4	546.3	546.2
152.5°	558.1	558.1	558.0	557.9	557.8	557.7	557.8	557.9	558.0	558.1	558.1
155°	568.7	568.5	568.2	567.9	567.6	567.3	567.6	567.9	568.2	568.5	568.7
157.5°	577.8	577.5	577.0	576.5	576.0	575.5	576.0	576.5	577.0	577.5	577.8
160°	586.5	586.2	585.6	585.0	584.4	583.8	584.4	585.0	585.6	586.2	586.5
162.5°	593.4	593.0	592.3	591.6	590.9	590.2	590.9	591.6	592.3	593.0	593.4
165°	600.3	599.8	598.9	598.0	597.0	596.1	597.0	598.0	598.9	599.8	600.3
167.5°	605.3	604.8	603.8	602.7	601.7	600.7	601.7	602.7	603.8	604.8	605.3
170°	609.4	608.9	607.9	606.9	605.9	604.9	605.9	606.9	607.9	608.9	609.4
172.5°	612.2	611.6	610.5	609.4	608.2	607.1	608.2	609.4	610.5	611.6	612.2
175°	614.5	613.9	612.7	611.4	610.2	609.0	610.2	611.4	612.7	613.9	614.5
177.5°	615.4	614.8	613.6	612.3	611.1	609.9	611.1	612.3	613.6	614.8	615.4
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	910.5	914.4	912.9	907.4	909.8	914.4	919.1	925.3	929.1	932.2	933.8
5°	857.1	864.0	862.5	862.5	865.6	873.3	881.1	894.3	898.9	904.3	912.1
7.5°	809.8	815.2	819.9	821.4	826.1	836.1	846.2	860.9	872.6	878.8	883.4
10°	767.9	771.8	778.8	782.7	787.3	799.7	814.4	829.9	841.6	852.4	858.6
12.5°	714.5	730.0	739.3	745.5	751.7	770.3	781.9	798.9	812.9	823.0	832.3
15°	654.8	673.4	678.8	702.9	718.3	733.1	750.9	771.0	784.2	795.8	808.2
17.5°	604.4	617.6	623.8	649.4	662.6	685.8	711.4	736.9	757.1	765.6	778.0
20°	572.7	579.6	592.0	600.6	614.5	641.6	669.5	700.5	730.7	739.3	751.7
22.5°	540.1	549.4	557.9	569.6	580.4	599.0	626.9	661.0	693.6	709.1	723.8
25°	510.7	520.0	525.4	537.8	547.9	566.5	585.8	620.7	659.5	672.6	695.9
27.5°	487.4	492.8	502.1	507.6	519.2	536.2	554.1	580.4	618.4	640.9	663.3
30°	464.2	468.1	475.8	483.5	492.1	503.7	523.8	549.4	584.3	603.7	626.1
32.5°	440.9	447.1	451.8	457.2	466.5	480.4	494.4	519.2	547.1	568.8	591.3
35°	421.6	423.9	430.1	436.3	442.5	454.9	469.6	493.6	518.4	535.5	555.6
37.5°	400.6	404.5	409.2	411.5	421.6	429.3	444.8	463.4	492.8	503.7	523.8
40°	384.4	383.6	388.2	392.1	396.8	409.2	418.5	438.6	461.9	478.9	491.3
42.5°	364.2	364.2	365.8	370.4	376.6	384.4	395.2	412.3	436.3	448.7	463.4
45°	347.9	345.6	346.4	349.5	353.4	361.1	372.0	386.7	410.7	420.8	436.3
47.5°	328.6	326.2	326.2	329.3	332.4	337.9	346.4	363.4	382.8	396.0	407.6
50°	306.9	307.6	306.9	309.2	310.7	316.2	325.5	339.4	357.2	368.1	381.3
52.5°	286.7	285.2	284.4	285.9	289.0	292.9	303.0	315.4	332.4	343.3	354.9
55°	261.9	263.5	263.5	263.5	268.1	269.7	277.4	289.8	306.9	315.4	326.2
57.5°	239.4	238.7	240.2	239.4	243.3	248.7	254.9	264.2	281.3	289.8	299.9
60°	214.7	215.4	216.2	216.2	219.3	224.7	231.7	240.2	254.2	262.7	272.0
62.5°	184.4	188.3	192.2	193.7	198.4	202.3	206.9	216.2	228.6	234.8	243.3
65°	155.8	161.2	166.6	170.5	173.6	177.5	183.7	192.2	202.3	208.5	217.0
67.5°	131.0	134.8	141.8	145.7	151.9	156.5	160.4	167.4	179.8	182.1	189.1
70°	113.1	114.7	117.8	120.9	127.9	131.7	136.4	143.4	152.7	158.1	162.0
72.5°	95.3	96.1	97.6	100.7	103.8	108.5	113.9	120.1	128.6	131.0	136.4
75°	75.9	80.6	80.6	82.9	85.2	87.6	92.2	98.4	103.8	107.7	110.8
77.5°	56.6	58.9	60.4	64.3	67.4	69.7	72.8	77.5	80.6	83.7	86.0
80°	44.2	44.9	45.7	45.7	47.3	50.4	53.5	56.6	60.4	62.0	64.3
82.5°	32.5	32.5	32.5	34.1	34.9	35.6	35.6	37.2	41.1	42.6	44.9
85°	20.9	20.9	20.9	20.9	21.7	22.5	23.2	24.0	24.0	24.0	25.6
87.5°	8.5	10.1	9.3	10.1	10.1	10.1	10.1	10.8	10.8	11.6	11.6
90°	12.5	11.9	11.3	10.7	10.1	9.3	8.5	7.6	6.8	6.4	5.8
92.5°	12.1	11.5	10.8	10.2	9.6	8.8	8.0	7.2	6.4	6.0	6.1
95°	12.5	11.9	11.3	10.7	10.1	10.0	9.9	9.8	9.7	9.6	11.3
97.5°	12.1	11.6	11.1	10.6	10.1	20.8	31.5	42.2	52.9	58.2	57.1
100°	13.3	15.0	16.7	18.5	20.2	34.2	48.3	62.3	76.4	83.4	82.5
102.5°	24.8	47.7	70.6	93.5	116.4	115.2	114.0	112.7	111.5	110.9	110.3
105°	146.6	145.7	144.8	143.9	143.0	142.5	142.0	141.5	141.0	140.7	140.4
107.5°	174.3	173.8	173.3	172.8	172.3	171.6	170.9	170.2	169.5	169.1	168.9
110°	202.9	202.7	202.5	202.3	202.1	201.5	200.9	200.2	199.6	199.3	199.2

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	230.5	230.6	230.7	230.8	230.9	230.7	230.5	230.3	230.1	230.0	229.7
115°	259.3	259.1	258.8	258.6	258.4	258.5	258.6	258.7	258.8	258.9	258.7
117.5°	287.4	287.5	287.6	287.7	287.8	287.5	287.2	286.9	286.6	286.4	286.2
120°	314.2	314.0	313.8	313.6	313.4	313.5	313.6	313.7	313.8	313.9	313.7
122.5°	339.9	339.8	339.7	339.6	339.5	339.3	339.1	338.9	338.7	338.6	338.5
125°	364.1	363.8	363.5	363.2	362.9	363.1	363.3	363.5	363.7	363.8	363.6
127.5°	387.7	387.8	387.9	388.0	388.1	387.6	387.1	386.6	386.1	385.8	385.8
130°	410.1	410.0	409.9	409.8	409.7	409.4	409.1	408.8	408.5	408.3	408.2
132.5°	431.6	431.5	431.4	431.3	431.2	430.8	430.4	430.0	429.6	429.4	429.3
135°	451.2	451.0	450.8	450.6	450.4	450.0	449.6	449.2	448.8	448.6	448.7
137.5°	470.5	470.3	470.1	469.9	469.7	469.2	468.7	468.2	467.7	467.4	467.4
140°	488.3	488.0	487.7	487.4	487.1	486.9	486.7	486.5	486.3	486.2	486.1
142.5°	504.4	504.2	504.0	503.8	503.6	503.5	503.4	503.3	503.2	503.1	502.9
145°	519.6	519.5	519.4	519.3	519.2	519.2	519.2	519.2	519.2	519.2	519.0
147.5°	533.3	533.2	533.1	533.0	532.9	533.0	533.1	533.2	533.3	533.4	533.1
150°	546.2	546.2	546.2	546.2	546.2	546.3	546.4	546.5	546.6	546.7	546.5
152.5°	558.0	557.8	557.6	557.4	557.2	557.4	557.6	557.8	558.0	558.1	557.9
155°	568.5	568.1	567.6	567.2	566.8	567.1	567.4	567.7	568.0	568.2	568.1
157.5°	577.5	577.0	576.5	576.0	575.5	575.9	576.3	576.8	577.2	577.4	577.4
160°	586.2	585.6	585.0	584.4	583.8	583.9	584.0	584.1	584.2	584.2	584.4
162.5°	593.1	592.5	591.8	591.2	590.6	590.7	590.8	590.9	591.0	591.1	591.3
165°	599.9	599.1	598.2	597.4	596.6	596.6	596.6	596.6	596.6	596.6	596.9
167.5°	604.8	603.9	603.0	602.1	601.2	601.3	601.4	601.5	601.6	601.6	601.9
170°	609.0	608.2	607.4	606.6	605.8	605.7	605.6	605.5	605.4	605.3	605.6
172.5°	611.8	611.0	610.1	609.3	608.5	608.4	608.3	608.2	608.1	608.1	608.4
175°	614.0	613.1	612.2	611.3	610.4	610.3	610.2	610.1	610.0	609.9	610.2
177.5°	615.0	614.2	613.3	612.5	611.7	611.5	611.3	611.1	610.9	610.8	611.2
180°	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6	612.6

TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	961.7	961.7	961.7	961.7
2.5°	940.0	944.6	952.4	963.2
5°	918.3	931.5	943.9	960.1
7.5°	898.9	914.4	931.5	954.7
10°	876.4	895.8	917.5	946.2
12.5°	850.1	877.2	902.0	933.0
15°	830.7	850.9	882.6	919.1
17.5°	803.6	830.7	862.5	903.6
20°	778.0	806.7	842.3	885.0
22.5°	750.9	783.4	819.1	864.8
25°	723.0	757.9	793.5	842.3
27.5°	697.4	729.2	769.5	819.1
30°	666.4	702.9	741.6	793.5
32.5°	636.2	674.2	713.7	765.6
35°	603.7	641.6	685.0	734.6
37.5°	571.9	613.7	653.3	701.3
40°	537.0	580.4	621.5	670.3
42.5°	502.9	547.9	588.9	630.8
45°	471.2	515.3	552.5	592.0
47.5°	440.9	480.4	518.4	554.1
50°	411.5	444.8	479.7	509.1
52.5°	380.5	412.3	440.2	466.5
55°	352.6	377.4	402.2	426.2
57.5°	319.3	344.1	365.8	384.4
60°	291.4	306.9	327.8	347.2
62.5°	259.6	277.4	293.7	306.1
65°	228.6	244.1	256.5	267.3
67.5°	202.3	211.6	220.9	232.5
70°	170.5	178.2	189.1	197.6
72.5°	143.4	149.6	155.0	165.1
75°	116.2	121.7	124.8	134.1
77.5°	89.9	95.3	97.6	103.1
80°	69.0	69.7	72.8	77.5
82.5°	47.3	48.8	49.6	53.5
85°	27.1	31.0	30.2	31.8
87.5°	11.6	12.4	13.9	15.5
90°	4.7	3.6	2.5	1.4
92.5°	6.3	6.5	6.7	6.9
95°	14.8	18.3	21.7	25.2
97.5°	54.8	52.6	50.3	48.1
100°	80.6	78.8	76.9	75.1
102.5°	109.1	107.8	106.6	105.4
105°	139.8	139.1	138.5	137.9
107.5°	168.6	168.3	168.0	167.7
110°	198.9	198.6	198.3	198.0



TEST NUMBER: P1033021

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	229.1	228.5	227.9	227.3
115°	258.4	258.1	257.8	257.5
117.5°	285.8	285.4	285.0	284.6
120°	313.3	312.8	312.4	312.0
122.5°	338.3	338.1	337.9	337.7
125°	363.2	362.8	362.4	362.0
127.5°	385.7	385.6	385.5	385.4
130°	408.1	408.0	407.9	407.8
132.5°	429.1	428.8	428.6	428.4
135°	448.8	448.9	449.0	449.1
137.5°	467.4	467.4	467.4	467.4
140°	485.9	485.7	485.5	485.3
142.5°	502.5	502.1	501.7	501.3
145°	518.7	518.4	518.1	517.8
147.5°	532.5	531.8	531.2	530.6
150°	546.1	545.6	545.2	544.8
152.5°	557.6	557.3	557.0	556.7
155°	568.0	567.9	567.8	567.7
157.5°	577.4	577.4	577.4	577.4
160°	584.7	585.0	585.3	585.6
162.5°	591.7	592.1	592.5	592.9
165°	597.4	597.9	598.4	598.9
167.5°	602.4	602.9	603.4	603.9
170°	606.2	606.9	607.5	608.1
172.5°	609.0	609.6	610.2	610.8
175°	610.8	611.4	612.0	612.6
177.5°	611.9	612.6	613.3	614.0
180°	612.6	612.6	612.6	612.6

(END OF REPORT)