

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: P1031205

Luminaire Tested: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031205
REPORT IS A COMBINATION OF REPORTS P994563 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

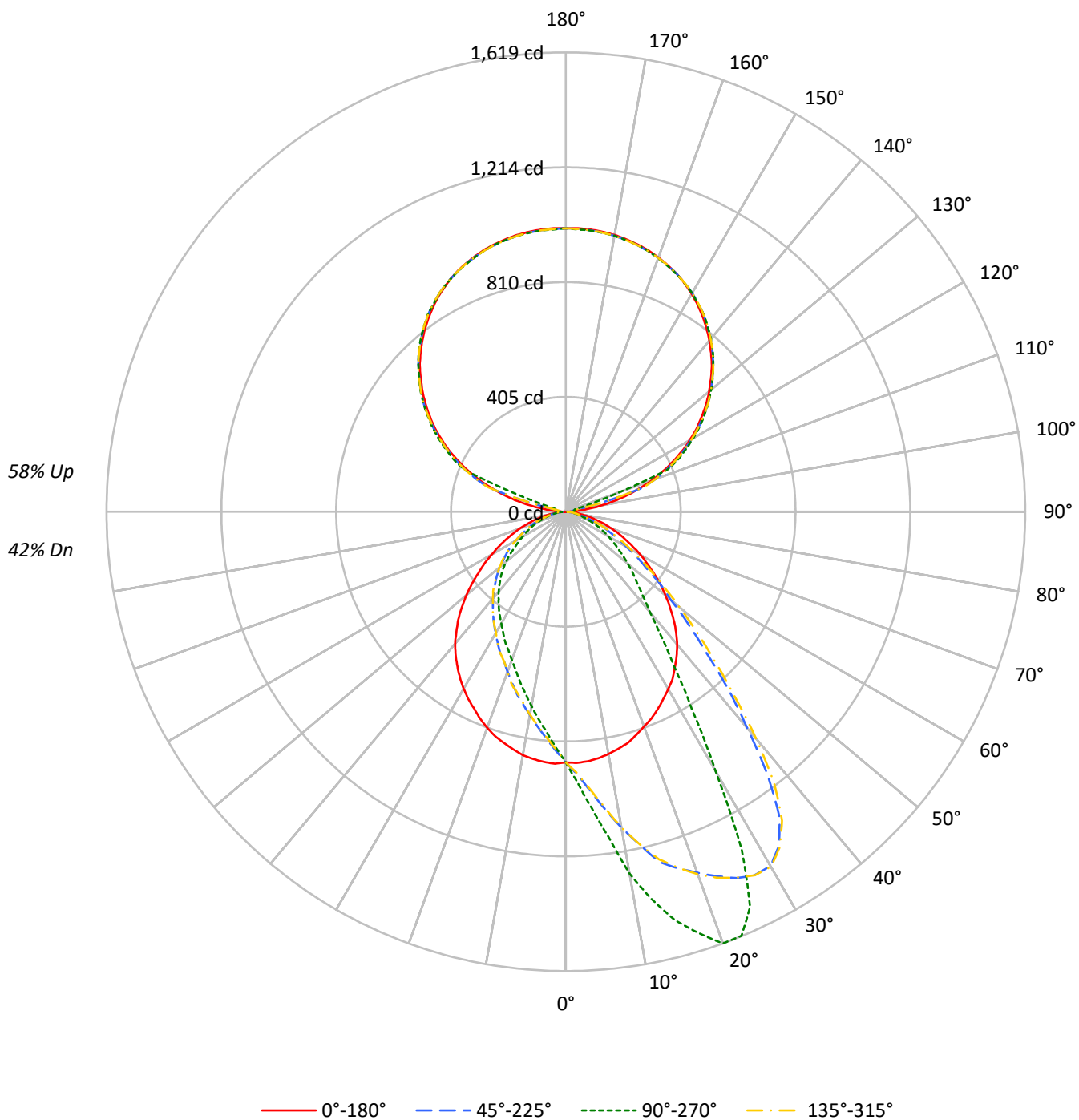
Lumens per Lamp: N/A
Luminaire Lumens: 5247.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 47.2
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
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	89	85	88	85	81	79	70	68	66	56	55	54	44	43	42
2	88	81	75	71	80	74	70	65	62	58	55	50	48	45	39	38	36
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	31
4	74	64	56	51	67	59	52	47	49	44	40	40	37	34	32	29	27
5	68	57	49	44	62	53	46	41	44	39	35	36	32	30	29	26	24
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	26	24	21
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	35	30	49	39	32	28	33	28	24	27	24	21	22	19	17
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	20	18	16
10	47	35	28	24	43	33	27	22	28	23	20	23	20	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9510	9510	9510	9510
5°	9518	10953	9542	8126
10°	9434	13222	9475	7098
15°	9336	15006	9336	6258
20°	9145	16186	9196	5551
25°	9004	15378	8987	5066
30°	8841	10655	8823	4590
35°	8645	6841	8606	4232
40°	8401	4831	8359	3876
45°	7977	3865	7965	3528
50°	7454	3234	7430	3122
55°	6867	2665	6811	2647
60°	6289	2203	6227	2251
65°	5613	1763	5649	1908
70°	4989	1225	5124	1543
75°	4230	909	4401	1186
80°	3366	603	3654	889
85°	2401	286	2613	554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 12696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.7
10°-20°	271.6	5.2
20°-30°	427.8	8.2
30°-40°	444.8	8.5
40°-50°	380.6	7.3
50°-60°	290.1	5.5
60°-70°	185.9	3.5
70°-80°	89.1	1.7
80°-90°	25.4	0.5
90°-100°	35.2	0.7
100°-110°	170.3	3.2
110°-120°	417.3	8.0
120°-130°	529.8	10.1
130°-140°	565.9	10.8
140°-150°	529.2	10.1
150°-160°	426.9	8.1
160°-170°	275.5	5.3
170°-180°	94.9	1.8
0°-30°	786.1	15.0
0°-40°	1231.0	23.5
0°-60°	1901.6	36.2
0°-90°	2202.0	42.0
90°-120°	622.8	11.9
90°-150°	2247.7	42.8
90°-180°	3045.0	58.0
0°-180°	5247.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	884	884	884	884	884	
5°	883	1049	885	778	883	84
15°	843	1491	843	622	843	237
25°	767	1536	766	506	767	353
35°	669	666	666	412	669	419
45°	537	356	536	324	537	414
55°	379	223	376	222	379	340
65°	232	129	234	139	232	232
75°	111	54	116	71	111	120
85°	25	13	27	25	25	28
90°	1	22	1	22	1	4
95°	45	28	45	28	45	54
105°	221	33	221	33	221	234
115°	415	436	415	436	415	410
125°	585	597	585	597	585	522
135°	728	735	728	735	728	560
145°	840	848	840	848	840	526
155°	925	924	925	924	925	426
165°	976	974	976	974	976	276
175°	999	995	999	995	999	95
180°	999	999	999	999	999	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	885.8	891.8	896.4	899.4	907.0	911.5	915.3	922.1	922.1	923.6	926.6
5°	882.8	895.6	904.7	916.8	932.7	940.2	950.8	959.9	972.8	979.6	986.4
7.5°	876.0	894.1	913.0	931.2	954.6	969.7	980.3	1003.8	1020.4	1040.9	1056.7
10°	866.9	891.8	916.0	944.0	975.8	998.5	1014.4	1045.4	1077.2	1105.9	1130.1
12.5°	855.5	885.8	920.6	954.6	999.2	1021.9	1047.7	1086.2	1131.6	1167.9	1200.5
15°	843.4	878.2	917.6	959.2	1015.1	1046.9	1084.0	1130.9	1181.5	1233.7	1278.4
17.5°	824.5	868.4	912.3	972.8	1038.6	1057.5	1089.3	1153.6	1216.3	1263.2	1317.7
20°	805.6	854.8	910.0	964.5	1035.6	1079.4	1108.9	1177.0	1244.3	1301.1	1353.3
22.5°	788.2	839.6	897.1	966.0	1032.5	1076.4	1113.5	1184.6	1262.5	1326.0	1390.3
25°	767.0	823.0	886.5	951.6	1032.5	1065.8	1106.7	1189.1	1271.6	1344.9	1424.4
27.5°	744.3	801.1	863.8	930.4	1004.5	1053.7	1093.8	1182.3	1282.9	1361.6	1443.3
30°	721.6	779.9	840.4	900.2	983.4	1030.3	1076.4	1174.0	1289.0	1379.0	1441.8
32.5°	699.7	748.9	808.6	866.9	949.3	1000.8	1053.0	1165.7	1291.2	1366.9	1397.1
35°	669.4	720.9	769.3	831.3	914.5	965.2	1026.5	1164.9	1281.4	1328.3	1313.2
37.5°	641.5	684.6	730.7	785.9	871.4	937.2	1000.8	1145.2	1248.9	1251.9	1166.4
40°	610.4	646.0	684.6	742.8	835.1	900.2	969.0	1115.0	1189.9	1145.2	994.7
42.5°	574.9	606.7	636.9	693.6	794.3	866.9	941.0	1077.2	1104.4	1001.5	844.9
45°	537.1	562.8	590.8	650.5	751.1	823.0	897.1	1018.9	990.9	845.7	696.7
47.5°	497.7	519.7	546.9	601.4	705.0	778.4	848.7	935.7	864.6	708.8	584.0
50°	458.4	475.8	502.3	558.2	658.1	724.7	789.7	846.4	746.6	608.2	482.6
52.5°	419.8	433.4	460.7	508.3	605.1	668.7	715.6	737.5	636.2	502.3	419.1
55°	379.0	394.1	412.3	460.7	556.7	603.6	634.6	633.9	529.5	425.9	346.4
57.5°	339.6	353.3	369.1	417.6	495.5	527.2	553.7	540.9	441.8	348.7	297.3
60°	304.8	312.4	329.8	370.7	429.7	456.9	472.0	450.1	360.8	294.3	245.8
62.5°	267.0	274.6	289.0	327.5	363.8	378.2	391.1	363.1	298.0	239.8	210.3
65°	232.2	242.1	251.1	282.1	301.8	319.2	317.7	294.3	233.0	195.2	171.0
67.5°	202.0	205.7	213.3	232.2	241.3	254.2	254.9	228.4	187.6	158.9	144.5
70°	169.4	173.2	178.5	187.6	193.6	196.7	195.2	171.7	141.5	124.1	111.2
72.5°	141.5	140.7	144.5	144.5	150.5	149.8	145.2	127.1	107.4	93.0	85.5
75°	111.2	112.0	112.7	111.2	108.9	105.9	102.1	88.5	75.6	68.8	62.0
77.5°	87.0	85.5	86.2	80.9	77.9	74.9	69.6	62.8	52.2	50.7	47.7
80°	62.0	61.3	60.5	58.2	51.4	48.4	44.6	40.8	38.6	37.1	36.3
82.5°	41.6	41.6	40.1	35.6	31.8	29.5	28.7	27.2	25.0	25.0	24.2
85°	25.0	24.2	22.7	18.2	15.9	15.9	15.9	15.9	14.4	14.4	13.6
87.5°	9.8	9.1	6.8	6.8	6.1	6.1	6.1	5.3	5.3	4.5	4.5
90°	0.7	2.4	4.0	5.7	7.4	8.2	9.3	11.4	13.5	15.7	17.8
92.5°	17.1	16.1	15.1	14.1	13.1	12.6	13.3	14.8	16.3	17.8	19.3
95°	45.3	38.5	31.7	25.0	18.2	14.8	15.7	17.5	19.4	21.2	23.0
97.5°	82.4	77.8	73.2	68.5	63.9	61.6	57.4	49.0	40.5	32.1	23.7
100°	125.4	128.7	132.0	135.3	138.6	140.3	127.4	101.7	76.0	50.2	24.5
102.5°	174.4	176.5	178.7	180.8	182.9	184.0	169.7	141.0	112.3	83.6	54.9
105°	221.1	222.9	224.7	226.6	228.4	229.3	221.9	207.0	192.2	177.3	162.5
107.5°	270.9	272.4	273.8	275.3	276.8	277.5	278.7	281.2	283.7	286.2	288.7
110°	320.6	321.9	323.2	324.5	325.8	326.5	327.4	329.2	331.1	332.9	334.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	368.1	369.3	370.4	371.6	372.7	373.3	374.2	376.0	377.8	379.6	381.4
115°	414.8	415.8	416.8	417.8	418.8	419.3	420.0	421.5	423.0	424.4	425.9
117.5°	460.8	462.0	463.1	464.3	465.4	466.0	466.4	467.2	468.1	468.9	469.7
120°	503.1	504.6	506.1	507.6	509.1	509.8	510.0	510.5	511.0	511.5	512.0
122.5°	546.2	547.4	548.5	549.7	550.8	551.4	551.7	552.4	553.0	553.7	554.3
125°	584.8	586.1	587.4	588.7	590.0	590.7	591.0	591.7	592.4	593.0	593.7
127.5°	623.3	624.6	626.0	627.3	628.6	629.3	629.7	630.5	631.4	632.2	633.0
130°	659.0	660.3	661.6	662.9	664.2	664.9	665.2	665.9	666.6	667.2	667.9
132.5°	693.1	694.4	695.7	697.0	698.3	699.0	699.3	699.8	700.3	700.8	701.3
135°	728.0	729.0	730.0	730.9	731.9	732.4	732.7	733.4	734.1	734.7	735.4
137.5°	757.7	759.0	760.3	761.6	762.9	763.6	763.8	764.1	764.4	764.8	765.1
140°	787.3	788.3	789.3	790.3	791.3	791.8	792.0	792.5	793.0	793.5	794.0
142.5°	814.8	815.8	816.8	817.7	818.7	819.2	819.5	820.0	820.5	821.0	821.5
145°	840.0	841.2	842.3	843.5	844.6	845.2	845.4	845.7	846.0	846.4	846.7
147.5°	864.5	865.3	866.1	867.0	867.8	868.2	868.4	868.7	869.0	869.4	869.7
150°	886.8	887.3	887.8	888.3	888.8	889.0	889.2	889.5	889.8	890.2	890.5
152.5°	906.8	907.0	907.2	907.3	907.5	907.6	907.7	907.8	908.0	908.1	908.3
155°	925.4	925.1	924.7	924.4	924.1	923.9	924.0	924.1	924.3	924.4	924.6
157.5°	940.2	940.2	940.2	940.2	940.2	940.2	940.1	940.0	939.8	939.7	939.5
160°	953.6	953.4	953.2	953.1	952.9	952.8	952.7	952.6	952.4	952.3	952.1
162.5°	966.2	965.7	965.2	964.7	964.2	963.9	963.8	963.7	963.5	963.4	963.2
165°	975.8	975.3	974.8	974.3	973.8	973.6	973.5	973.4	973.2	973.1	972.9
167.5°	984.0	983.3	982.7	982.0	981.3	981.0	981.0	981.0	981.0	981.0	981.0
170°	990.7	990.0	989.4	988.7	988.0	987.7	987.7	987.7	987.7	987.7	987.7
172.5°	995.1	994.3	993.5	992.6	991.8	991.4	991.5	991.6	991.8	991.9	992.1
175°	998.8	998.0	997.2	996.3	995.5	995.1	995.2	995.4	995.5	995.7	995.9
177.5°	1000.3	999.5	998.7	997.8	997.0	996.6	996.7	996.8	997.0	997.1	997.3
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	932.7	932.7	939.5	946.3	942.5	944.8	953.1	950.1	956.1	955.4	957.6
5°	1003.0	1011.4	1018.2	1032.5	1034.8	1032.5	1046.9	1050.7	1057.5	1049.2	1053.0
7.5°	1082.5	1099.9	1116.5	1137.7	1144.5	1146.0	1153.6	1164.2	1173.2	1156.6	1164.9
10°	1159.6	1186.1	1220.1	1239.0	1255.7	1261.7	1267.8	1274.6	1285.2	1295.0	1287.5
12.5°	1242.8	1281.4	1313.9	1348.0	1368.4	1366.1	1383.5	1388.1	1396.4	1398.6	1401.7
15°	1310.9	1365.4	1385.8	1436.5	1441.0	1456.1	1475.8	1493.2	1495.5	1490.9	1490.9
17.5°	1376.0	1422.9	1459.2	1500.0	1508.3	1521.2	1546.2	1554.5	1557.5	1556.7	1556.7
20°	1428.9	1459.9	1521.2	1555.2	1568.8	1585.5	1602.9	1613.5	1615.7	1618.8	1614.2
22.5°	1463.7	1510.6	1560.5	1588.5	1599.9	1605.9	1617.3	1620.3	1616.5	1617.3	1618.0
25°	1490.9	1537.1	1567.3	1574.9	1574.1	1566.6	1558.3	1543.9	1542.4	1536.3	1524.2
27.5°	1498.5	1515.9	1512.1	1481.1	1450.1	1447.1	1397.1	1369.9	1338.9	1343.4	1326.0
30°	1457.6	1435.0	1381.2	1302.6	1270.1	1217.1	1161.1	1102.9	1080.2	1055.2	1101.4
32.5°	1357.8	1276.9	1181.5	1079.4	1025.0	978.1	918.3	876.0	851.7	831.3	870.7
35°	1207.3	1080.9	954.6	857.8	813.2	770.8	714.8	693.6	663.4	666.4	670.2
37.5°	1013.6	874.4	779.1	683.8	654.3	636.9	596.1	563.5	553.0	549.9	549.9
40°	832.1	717.9	633.1	558.2	535.6	521.2	488.7	473.5	462.2	459.2	462.9
42.5°	688.4	590.8	525.0	475.0	459.2	441.0	427.4	408.5	406.2	400.9	407.7
45°	577.9	493.2	444.0	407.7	394.1	387.3	372.2	360.8	356.3	355.5	360.8
47.5°	490.2	424.4	381.2	358.5	348.0	341.2	328.3	323.8	319.2	320.7	318.5
50°	411.5	362.3	334.3	313.9	307.1	300.3	292.0	287.4	285.2	285.2	284.4
52.5°	353.3	312.4	294.3	275.3	272.3	268.5	259.5	256.4	252.6	251.9	254.9
55°	302.6	274.6	256.4	245.1	242.1	234.5	230.7	226.9	224.7	223.1	223.9
57.5°	258.7	237.5	225.4	215.6	210.3	207.3	200.5	199.7	198.2	198.2	197.4
60°	222.4	207.3	192.9	186.8	183.1	179.3	178.5	174.0	171.7	173.2	172.5
62.5°	188.4	176.2	167.9	161.1	158.9	155.8	153.6	152.0	149.8	150.5	150.5
65°	157.3	147.5	141.5	135.4	134.6	131.6	130.9	129.4	129.4	128.6	130.1
67.5°	129.4	122.5	117.2	113.5	111.2	112.0	108.9	106.7	106.7	105.9	108.2
70°	102.9	99.1	93.8	89.3	86.2	86.2	82.5	81.7	81.7	81.7	80.9
72.5°	79.4	72.6	70.3	68.8	68.8	68.8	67.3	67.3	66.6	67.3	66.6
75°	59.0	58.2	56.7	56.0	56.0	55.2	54.5	54.5	54.5	54.5	54.5
77.5°	46.1	46.1	44.6	43.9	43.9	43.9	43.1	43.1	42.4	42.4	42.4
80°	34.0	34.0	32.5	32.5	32.5	31.8	31.8	31.8	32.5	31.8	31.8
82.5°	23.4	23.4	22.7	23.4	22.7	21.9	21.9	21.9	21.2	21.9	21.9
85°	13.6	13.6	12.9	12.1	12.9	12.9	12.1	12.9	12.1	12.9	12.1
87.5°	5.3	4.5	4.5	4.5	3.8	4.5	3.8	3.8	4.5	3.8	4.5
90°	18.5	19.1	19.8	20.5	20.8	21.0	21.3	21.6	22.0	22.3	22.0
92.5°	20.5	21.6	22.8	23.9	24.5	24.6	24.7	24.9	25.0	25.2	25.0
95°	24.2	25.3	26.5	27.6	28.2	28.2	28.2	28.2	28.2	28.2	28.2
97.5°	25.0	26.4	27.7	29.0	29.7	29.8	29.9	30.1	30.2	30.4	30.2
100°	25.8	27.1	28.4	29.7	30.4	30.5	30.7	30.8	31.0	31.2	31.0
102.5°	49.5	44.0	38.6	33.1	30.4	30.6	30.9	31.2	31.6	31.9	31.6
105°	133.3	104.1	75.0	45.8	31.2	31.4	31.7	32.0	32.4	32.7	32.4
107.5°	263.3	237.9	212.5	187.1	174.4	163.6	142.0	120.4	98.8	77.2	98.8
110°	329.3	323.8	318.4	312.9	310.2	298.4	274.8	251.3	227.7	204.1	227.7

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	382.9	384.4	385.9	387.4	388.1	387.9	387.6	387.3	386.9	386.6	386.9
115°	427.6	429.2	430.9	432.6	433.4	433.7	434.4	435.0	435.7	436.3	435.7
117.5°	471.0	472.4	473.7	475.0	475.7	475.8	475.9	476.1	476.2	476.4	476.2
120°	513.3	514.7	516.0	517.3	518.0	518.0	518.0	518.0	518.0	518.0	518.0
122.5°	555.1	555.9	556.8	557.6	558.0	558.1	558.3	558.4	558.6	558.8	558.6
125°	594.0	594.3	594.6	594.9	595.1	595.3	595.6	595.9	596.3	596.6	596.3
127.5°	633.5	634.0	634.5	635.0	635.2	635.0	634.7	634.4	634.0	633.7	634.0
130°	668.5	669.2	669.8	670.5	670.8	670.6	670.3	670.0	669.6	669.3	669.6
132.5°	701.9	702.6	703.2	703.9	704.2	704.0	703.5	703.0	702.5	702.0	702.5
135°	735.9	736.4	736.9	737.4	737.6	737.4	736.9	736.4	735.9	735.4	735.9
137.5°	765.9	766.7	767.6	768.4	768.8	768.6	768.3	768.0	767.6	767.3	767.6
140°	794.7	795.3	796.0	796.7	797.0	796.8	796.5	796.2	795.8	795.5	795.8
142.5°	822.0	822.5	823.0	823.5	823.7	823.5	823.0	822.5	822.0	821.5	822.0
145°	847.0	847.4	847.7	848.0	848.2	848.2	848.2	848.2	848.2	848.2	848.2
147.5°	870.0	870.4	870.7	871.0	871.2	870.8	870.0	869.1	868.3	867.5	868.3
150°	890.8	891.2	891.5	891.8	892.0	891.7	891.2	890.7	890.2	889.7	890.2
152.5°	909.0	909.6	910.3	911.0	911.3	910.9	910.1	909.2	908.4	907.6	908.4
155°	925.4	926.2	927.1	927.9	928.3	927.8	926.8	925.9	924.9	923.9	924.9
157.5°	940.5	941.5	942.4	943.4	943.9	943.2	941.9	940.6	939.3	938.0	939.3
160°	953.1	954.1	955.0	956.0	956.5	955.9	954.8	953.6	952.5	951.3	952.5
162.5°	964.4	965.5	966.7	967.8	968.4	967.9	966.9	965.9	964.9	963.9	964.9
165°	974.2	975.5	976.8	978.1	978.8	978.2	977.1	975.9	974.8	973.6	974.8
167.5°	982.3	983.7	985.0	986.3	987.0	986.3	985.0	983.7	982.3	981.0	982.3
170°	989.0	990.3	991.6	992.9	993.6	992.9	991.6	990.3	989.0	987.7	989.0
172.5°	993.4	994.8	996.1	997.4	998.1	997.4	995.9	994.4	992.9	991.4	992.9
175°	997.1	998.2	999.4	1000.5	1001.1	1000.4	999.1	997.8	996.4	995.1	996.4
177.5°	998.6	1000.0	1001.3	1002.6	1003.3	1002.5	1000.8	999.2	997.5	995.9	997.5
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	953.9	949.3	946.3	944.0	941.8	948.6	939.5	929.7	922.8	918.3	916.8
5°	1053.7	1043.9	1035.6	1028.7	1030.3	1030.3	1014.4	997.0	981.9	973.5	964.5
7.5°	1169.4	1158.9	1142.2	1138.4	1135.4	1116.5	1100.6	1068.8	1049.9	1031.0	1014.4
10°	1284.4	1270.8	1254.9	1249.6	1242.1	1218.6	1194.4	1153.6	1130.1	1095.3	1073.4
12.5°	1391.8	1375.2	1359.3	1355.5	1344.2	1323.8	1282.2	1239.8	1199.7	1162.6	1124.1
15°	1481.9	1477.3	1453.1	1438.0	1413.0	1385.0	1376.0	1318.5	1267.8	1229.2	1159.6
17.5°	1557.5	1536.3	1513.6	1503.8	1494.0	1461.4	1428.9	1369.9	1315.4	1258.7	1214.1
20°	1618.0	1594.6	1578.7	1564.3	1559.8	1522.7	1471.3	1419.1	1359.3	1295.8	1237.5
22.5°	1621.0	1618.0	1607.4	1599.1	1590.0	1565.8	1525.0	1459.9	1396.4	1326.8	1250.4
25°	1558.3	1553.7	1584.0	1576.4	1582.5	1573.4	1551.4	1497.0	1422.9	1341.2	1264.0
27.5°	1369.1	1415.3	1462.9	1479.6	1490.9	1523.5	1534.0	1503.8	1444.0	1357.0	1270.8
30°	1112.0	1173.2	1250.4	1292.0	1323.8	1384.3	1462.9	1472.8	1444.8	1375.2	1269.3
32.5°	872.9	928.9	990.9	1040.1	1082.5	1206.5	1312.4	1388.8	1402.4	1366.1	1273.1
35°	703.5	727.7	786.7	833.6	891.1	997.0	1121.8	1245.1	1328.3	1332.8	1261.7
37.5°	580.2	593.0	644.5	671.0	705.0	798.0	914.5	1075.6	1205.0	1266.3	1230.0
40°	480.3	509.8	539.3	554.5	578.7	643.0	754.9	881.2	1041.6	1155.1	1180.8
42.5°	416.8	429.7	448.6	469.7	484.9	540.9	615.7	731.5	876.0	1034.0	1105.1
45°	367.6	372.2	391.8	405.4	421.3	460.7	513.6	610.4	737.5	893.3	1014.4
47.5°	326.8	335.9	346.4	354.8	365.4	395.6	441.0	511.3	623.3	762.5	892.6
50°	290.5	295.8	309.4	313.2	320.7	341.9	376.7	430.4	522.7	633.9	768.5
52.5°	256.4	266.3	271.6	276.9	283.7	301.1	323.8	367.6	437.2	541.6	655.8
55°	230.0	233.0	240.5	245.1	250.4	262.5	282.1	314.7	369.1	452.3	560.5
57.5°	204.2	204.2	211.8	215.6	220.9	230.0	247.4	272.3	311.7	373.7	472.8
60°	177.0	177.8	183.8	188.4	189.9	198.9	213.3	233.0	263.2	308.6	389.6
62.5°	152.8	156.6	159.6	161.1	166.4	171.7	183.8	197.4	218.6	258.7	316.2
65°	132.4	133.1	135.4	136.9	139.2	145.2	154.3	163.4	181.5	211.0	257.9
67.5°	108.9	112.0	115.0	115.0	117.2	120.3	129.4	136.9	150.5	167.9	199.7
70°	81.7	83.2	87.7	90.0	93.0	98.3	102.9	107.4	118.0	130.9	155.1
72.5°	68.1	68.1	69.6	70.3	70.3	74.1	80.9	85.5	90.8	99.8	116.5
75°	54.5	54.5	56.7	56.0	57.5	59.0	59.8	62.8	65.8	72.6	82.5
77.5°	43.1	43.9	43.9	44.6	44.6	45.4	46.1	47.7	49.2	53.0	57.5
80°	31.8	32.5	32.5	33.3	33.3	34.0	34.8	35.6	37.1	38.6	40.8
82.5°	21.9	22.7	22.7	23.4	22.7	23.4	24.2	24.2	25.0	26.5	27.2
85°	12.9	12.9	13.6	12.9	12.9	12.9	13.6	13.6	14.4	16.6	16.6
87.5°	3.8	4.5	3.8	4.5	4.5	4.5	4.5	5.3	5.3	6.1	6.8
90°	21.6	21.3	21.0	20.8	20.5	19.8	19.1	18.5	17.8	15.7	13.5
92.5°	24.9	24.7	24.6	24.5	23.9	22.8	21.6	20.5	19.3	17.8	16.3
95°	28.2	28.2	28.2	28.2	27.6	26.5	25.3	24.2	23.0	21.2	19.4
97.5°	30.1	29.9	29.8	29.7	29.0	27.7	26.4	25.0	23.7	32.1	40.5
100°	30.8	30.7	30.5	30.4	29.7	28.4	27.1	25.8	24.5	50.2	76.0
102.5°	31.2	30.9	30.6	30.4	33.1	38.6	44.0	49.5	54.9	83.6	112.3
105°	32.0	31.7	31.4	31.2	45.8	75.0	104.1	133.3	162.5	177.3	192.2
107.5°	120.4	142.0	163.6	174.4	187.1	212.5	237.9	263.3	288.7	286.2	283.7
110°	251.3	274.8	298.4	310.2	312.9	318.4	323.8	329.3	334.7	332.9	331.1

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	387.3	387.6	387.9	388.1	387.4	385.9	384.4	382.9	381.4	379.6	377.8
115°	435.0	434.4	433.7	433.4	432.6	430.9	429.2	427.6	425.9	424.4	423.0
117.5°	476.1	475.9	475.8	475.7	475.0	473.7	472.4	471.0	469.7	468.9	468.1
120°	518.0	518.0	518.0	518.0	517.3	516.0	514.7	513.3	512.0	511.5	511.0
122.5°	558.4	558.3	558.1	558.0	557.6	556.8	555.9	555.1	554.3	553.7	553.0
125°	595.9	595.6	595.3	595.1	594.9	594.6	594.3	594.0	593.7	593.0	592.4
127.5°	634.4	634.7	635.0	635.2	635.0	634.5	634.0	633.5	633.0	632.2	631.4
130°	670.0	670.3	670.6	670.8	670.5	669.8	669.2	668.5	667.9	667.2	666.6
132.5°	703.0	703.5	704.0	704.2	703.9	703.2	702.6	701.9	701.3	700.8	700.3
135°	736.4	736.9	737.4	737.6	737.4	736.9	736.4	735.9	735.4	734.7	734.1
137.5°	768.0	768.3	768.6	768.8	768.4	767.6	766.7	765.9	765.1	764.8	764.4
140°	796.2	796.5	796.8	797.0	796.7	796.0	795.3	794.7	794.0	793.5	793.0
142.5°	822.5	823.0	823.5	823.7	823.5	823.0	822.5	822.0	821.5	821.0	820.5
145°	848.2	848.2	848.2	848.2	848.0	847.7	847.4	847.0	846.7	846.4	846.0
147.5°	869.1	870.0	870.8	871.2	871.0	870.7	870.4	870.0	869.7	869.4	869.0
150°	890.7	891.2	891.7	892.0	891.8	891.5	891.2	890.8	890.5	890.2	889.8
152.5°	909.2	910.1	910.9	911.3	911.0	910.3	909.6	909.0	908.3	908.1	908.0
155°	925.9	926.8	927.8	928.3	927.9	927.1	926.2	925.4	924.6	924.4	924.3
157.5°	940.6	941.9	943.2	943.9	943.4	942.4	941.5	940.5	939.5	939.7	939.8
160°	953.6	954.8	955.9	956.5	956.0	955.0	954.1	953.1	952.1	952.3	952.4
162.5°	965.9	966.9	967.9	968.4	967.8	966.7	965.5	964.4	963.2	963.4	963.5
165°	975.9	977.1	978.2	978.8	978.1	976.8	975.5	974.2	972.9	973.1	973.2
167.5°	983.7	985.0	986.3	987.0	986.3	985.0	983.7	982.3	981.0	981.0	981.0
170°	990.3	991.6	992.9	993.6	992.9	991.6	990.3	989.0	987.7	987.7	987.7
172.5°	994.4	995.9	997.4	998.1	997.4	996.1	994.8	993.4	992.1	991.9	991.8
175°	997.8	999.1	1000.4	1001.1	1000.5	999.4	998.2	997.1	995.9	995.7	995.5
177.5°	999.2	1000.8	1002.5	1003.3	1002.6	1001.3	1000.0	998.6	997.3	997.1	997.0
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	914.5	910.7	907.0	907.0	898.6	891.1	887.3	888.8	884.3	878.2	872.2
5°	954.6	939.5	936.5	928.1	916.8	900.9	892.6	885.0	876.0	863.8	852.5
7.5°	991.7	972.0	961.4	953.1	931.2	909.2	891.1	879.0	863.1	844.9	831.3
10°	1040.1	1003.8	992.4	973.5	942.5	911.5	890.3	870.7	848.7	827.5	809.4
12.5°	1078.7	1037.1	1015.9	997.0	956.9	917.6	882.0	857.8	831.3	807.9	784.4
15°	1122.5	1075.6	1038.6	1015.9	965.2	917.6	877.5	843.4	813.9	785.2	764.8
17.5°	1143.7	1084.7	1068.1	1035.6	962.2	914.5	865.4	829.1	793.5	760.2	736.0
20°	1177.0	1108.2	1066.6	1044.6	979.6	909.2	851.7	810.1	773.1	737.5	711.8
22.5°	1179.3	1104.4	1077.2	1035.6	955.4	893.3	839.6	789.0	745.8	712.6	686.1
25°	1174.0	1097.6	1059.8	1026.5	959.9	884.3	815.4	765.5	723.2	684.6	653.6
27.5°	1171.7	1077.9	1042.4	1009.1	934.2	857.8	801.1	744.3	695.9	661.9	630.1
30°	1168.7	1056.7	1013.6	975.0	906.2	837.4	769.3	720.1	674.0	630.9	599.1
32.5°	1149.0	1028.0	984.1	943.3	869.1	800.3	746.6	694.4	644.5	604.4	575.6
35°	1143.0	1001.5	944.0	900.2	827.5	766.3	709.5	666.4	619.5	579.4	545.4
37.5°	1125.6	974.3	912.3	856.3	780.6	722.4	680.8	637.7	592.3	549.2	521.9
40°	1095.3	942.5	872.2	814.7	736.8	677.8	639.2	607.4	562.8	524.2	490.9
42.5°	1050.7	910.0	834.3	773.8	687.6	632.4	600.6	570.4	532.5	492.4	465.2
45°	999.2	866.9	796.5	729.2	641.5	587.7	554.5	536.3	501.5	467.5	435.7
47.5°	928.9	822.2	752.7	683.1	593.8	541.6	515.1	497.0	472.8	435.7	410.0
50°	840.4	764.8	698.9	636.9	546.9	497.0	470.5	456.9	436.5	410.0	385.0
52.5°	742.1	698.2	643.7	586.2	499.2	452.3	428.1	417.6	402.4	377.5	356.3
55°	643.0	624.1	587.0	530.3	449.3	410.7	389.6	375.9	364.6	346.4	328.3
57.5°	554.5	545.4	519.7	475.8	407.7	367.6	349.5	340.4	331.3	317.7	299.5
60°	462.9	472.8	446.3	424.4	362.3	327.5	311.7	301.8	297.3	285.2	273.8
62.5°	383.5	392.6	377.5	360.8	316.9	285.9	276.1	267.0	264.0	253.4	242.1
65°	311.7	323.0	311.7	302.6	276.1	250.4	238.3	233.7	230.7	223.9	214.8
67.5°	248.1	259.5	254.2	242.8	234.5	213.3	206.5	202.0	200.5	195.2	187.6
70°	186.8	202.7	204.2	197.4	189.9	180.0	175.5	174.0	170.2	165.7	161.1
72.5°	134.6	152.8	153.6	153.6	149.0	149.0	144.5	142.2	142.2	137.7	132.4
75°	99.1	111.2	112.7	114.2	116.5	118.8	115.7	115.7	115.0	110.4	108.2
77.5°	65.8	76.4	80.2	85.5	88.5	88.5	90.0	91.5	90.0	87.7	86.2
80°	42.4	49.9	54.5	57.5	62.0	64.3	66.6	67.3	65.8	65.1	62.8
82.5°	28.0	30.3	32.5	36.3	41.6	45.4	45.4	44.6	46.1	45.4	44.6
85°	15.9	17.4	18.2	18.9	21.9	25.7	26.5	27.2	28.7	27.2	25.7
87.5°	6.1	6.8	6.8	6.8	8.3	9.1	11.3	14.4	13.6	12.1	12.1
90°	11.4	9.3	8.2	7.4	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	14.8	13.3	12.6	13.1	14.1	15.1	16.1	17.1	16.1	15.1	14.1
95°	17.5	15.7	14.8	18.2	25.0	31.7	38.5	45.3	38.5	31.7	25.0
97.5°	49.0	57.4	61.6	63.9	68.5	73.2	77.8	82.4	77.8	73.2	68.5
100°	101.7	127.4	140.3	138.6	135.3	132.0	128.7	125.4	128.7	132.0	135.3
102.5°	141.0	169.7	184.0	182.9	180.8	178.7	176.5	174.4	176.5	178.7	180.8
105°	207.0	221.9	229.3	228.4	226.6	224.7	222.9	221.1	222.9	224.7	226.6
107.5°	281.2	278.7	277.5	276.8	275.3	273.8	272.4	270.9	272.4	273.8	275.3
110°	329.2	327.4	326.5	325.8	324.5	323.2	321.9	320.6	321.9	323.2	324.5

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	376.0	374.2	373.3	372.7	371.6	370.4	369.3	368.1	369.3	370.4	371.6
115°	421.5	420.0	419.3	418.8	417.8	416.8	415.8	414.8	415.8	416.8	417.8
117.5°	467.2	466.4	466.0	465.4	464.3	463.1	462.0	460.8	462.0	463.1	464.3
120°	510.5	510.0	509.8	509.1	507.6	506.1	504.6	503.1	504.6	506.1	507.6
122.5°	552.4	551.7	551.4	550.8	549.7	548.5	547.4	546.2	547.4	548.5	549.7
125°	591.7	591.0	590.7	590.0	588.7	587.4	586.1	584.8	586.1	587.4	588.7
127.5°	630.5	629.7	629.3	628.6	627.3	626.0	624.6	623.3	624.6	626.0	627.3
130°	665.9	665.2	664.9	664.2	662.9	661.6	660.3	659.0	660.3	661.6	662.9
132.5°	699.8	699.3	699.0	698.3	697.0	695.7	694.4	693.1	694.4	695.7	697.0
135°	733.4	732.7	732.4	731.9	730.9	730.0	729.0	728.0	729.0	730.0	730.9
137.5°	764.1	763.8	763.6	762.9	761.6	760.3	759.0	757.7	759.0	760.3	761.6
140°	792.5	792.0	791.8	791.3	790.3	789.3	788.3	787.3	788.3	789.3	790.3
142.5°	820.0	819.5	819.2	818.7	817.7	816.8	815.8	814.8	815.8	816.8	817.7
145°	845.7	845.4	845.2	844.6	843.5	842.3	841.2	840.0	841.2	842.3	843.5
147.5°	868.7	868.4	868.2	867.8	867.0	866.1	865.3	864.5	865.3	866.1	867.0
150°	889.5	889.2	889.0	888.8	888.3	887.8	887.3	886.8	887.3	887.8	888.3
152.5°	907.8	907.7	907.6	907.5	907.3	907.2	907.0	906.8	907.0	907.2	907.3
155°	924.1	924.0	923.9	924.1	924.4	924.7	925.1	925.4	925.1	924.7	924.4
157.5°	940.0	940.1	940.2	940.2	940.2	940.2	940.2	940.2	940.2	940.2	940.2
160°	952.6	952.7	952.8	952.9	953.1	953.2	953.4	953.6	953.4	953.2	953.1
162.5°	963.7	963.8	963.9	964.2	964.7	965.2	965.7	966.2	965.7	965.2	964.7
165°	973.4	973.5	973.6	973.8	974.3	974.8	975.3	975.8	975.3	974.8	974.3
167.5°	981.0	981.0	981.0	981.3	982.0	982.7	983.3	984.0	983.3	982.7	982.0
170°	987.7	987.7	987.7	988.0	988.7	989.4	990.0	990.7	990.0	989.4	988.7
172.5°	991.6	991.5	991.4	991.8	992.6	993.5	994.3	995.1	994.3	993.5	992.6
175°	995.4	995.2	995.1	995.5	996.3	997.2	998.0	998.8	998.0	997.2	996.3
177.5°	996.8	996.7	996.6	997.0	997.8	998.7	999.5	1000.3	999.5	998.7	997.8
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	872.2	868.4	866.9	863.1	854.0	848.0	841.2	836.6	837.4	833.6	835.9
5°	844.9	844.2	838.9	831.3	818.5	811.7	799.6	793.5	790.5	791.2	786.7
7.5°	822.2	815.4	811.7	799.6	787.4	773.1	763.2	757.9	753.4	748.9	745.8
10°	796.5	790.5	784.4	771.6	754.9	741.3	727.7	722.4	715.6	712.6	710.3
12.5°	769.3	765.5	757.9	742.8	723.9	711.0	695.2	692.1	683.1	677.0	675.5
15°	744.3	742.1	728.4	711.0	692.1	679.3	665.7	656.6	641.5	644.5	639.2
17.5°	717.9	708.0	699.7	676.3	667.2	647.5	631.6	627.1	616.5	609.7	602.9
20°	688.4	682.3	671.7	656.6	634.6	612.0	599.9	592.3	586.2	575.6	572.6
22.5°	660.4	652.8	643.7	624.1	605.1	586.2	569.6	562.8	555.2	547.7	543.1
25°	638.4	627.1	617.2	593.0	574.1	558.2	547.7	536.3	525.7	521.2	519.7
27.5°	604.4	597.6	587.7	565.1	547.7	530.3	520.4	512.9	501.5	496.2	491.7
30°	582.5	568.8	557.5	539.3	521.9	503.0	494.0	484.9	478.1	471.3	466.0
32.5°	553.0	542.4	533.3	515.1	497.7	480.3	470.5	456.9	453.1	447.8	441.8
35°	524.2	517.4	507.6	487.9	469.0	456.9	446.3	433.4	428.9	425.1	419.8
37.5°	497.0	487.1	480.3	461.4	444.8	430.4	422.1	411.5	408.5	403.9	400.2
40°	473.5	463.7	456.9	438.0	420.6	405.4	400.2	389.6	385.0	379.7	377.5
42.5°	447.1	438.7	429.7	416.0	397.9	382.8	372.2	366.1	360.1	357.8	353.3
45°	419.1	411.5	404.7	389.6	370.7	360.1	351.0	342.7	338.1	334.3	331.3
47.5°	394.9	388.1	379.0	362.3	347.2	337.4	328.3	320.0	315.4	310.9	307.1
50°	366.9	363.1	353.3	337.4	323.0	311.7	303.3	295.8	292.7	287.4	281.4
52.5°	341.9	335.1	326.8	313.9	301.1	287.4	276.1	271.6	266.3	263.2	257.9
55°	312.4	307.9	298.8	287.4	273.8	262.5	254.2	248.1	241.3	238.3	231.5
57.5°	287.4	279.1	274.6	260.2	247.4	236.0	230.0	223.9	216.3	211.8	208.8
60°	260.2	252.6	245.8	233.7	224.7	212.6	203.5	198.2	192.9	186.8	183.8
62.5°	233.7	227.7	219.4	209.5	198.2	188.4	181.5	174.0	171.0	164.9	162.6
65°	205.0	200.5	193.6	182.3	173.2	164.9	158.1	152.0	149.0	146.7	145.2
67.5°	179.3	173.2	168.7	158.9	149.0	142.2	138.4	134.6	130.9	128.6	126.3
70°	152.8	148.3	143.7	134.6	127.8	121.8	118.8	115.7	113.5	111.2	108.9
72.5°	125.6	123.3	118.8	112.7	107.4	102.9	100.6	96.8	94.6	90.8	89.3
75°	103.6	99.8	97.6	92.3	87.7	84.0	80.9	76.4	73.4	71.9	71.1
77.5°	81.7	80.2	77.2	72.6	70.3	66.6	62.0	60.5	59.0	59.0	58.2
80°	61.3	59.0	56.7	53.0	50.7	47.7	47.7	47.7	46.9	47.7	46.9
82.5°	41.6	40.1	38.6	36.3	35.6	35.6	36.3	36.3	36.3	36.3	36.3
85°	24.2	24.2	24.2	25.0	24.2	24.2	25.0	25.7	25.0	25.0	24.2
87.5°	11.3	11.3	12.1	12.1	12.9	12.9	12.9	12.9	12.9	12.9	13.6
90°	7.4	8.2	9.3	11.4	13.5	15.7	17.8	18.5	19.1	19.8	20.5
92.5°	13.1	12.6	13.3	14.8	16.3	17.8	19.3	20.5	21.6	22.8	23.9
95°	18.2	14.8	15.7	17.5	19.4	21.2	23.0	24.2	25.3	26.5	27.6
97.5°	63.9	61.6	57.4	49.0	40.5	32.1	23.7	25.0	26.4	27.7	29.0
100°	138.6	140.3	127.4	101.7	76.0	50.2	24.5	25.8	27.1	28.4	29.7
102.5°	182.9	184.0	169.7	141.0	112.3	83.6	54.9	49.5	44.0	38.6	33.1
105°	228.4	229.3	221.9	207.0	192.2	177.3	162.5	133.3	104.1	75.0	45.8
107.5°	276.8	277.5	278.7	281.2	283.7	286.2	288.7	263.3	237.9	212.5	187.1
110°	325.8	326.5	327.4	329.2	331.1	332.9	334.7	329.3	323.8	318.4	312.9

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	372.7	373.3	374.2	376.0	377.8	379.6	381.4	382.9	384.4	385.9	387.4
115°	418.8	419.3	420.0	421.5	423.0	424.4	425.9	427.6	429.2	430.9	432.6
117.5°	465.4	466.0	466.4	467.2	468.1	468.9	469.7	471.0	472.4	473.7	475.0
120°	509.1	509.8	510.0	510.5	511.0	511.5	512.0	513.3	514.7	516.0	517.3
122.5°	550.8	551.4	551.7	552.4	553.0	553.7	554.3	555.1	555.9	556.8	557.6
125°	590.0	590.7	591.0	591.7	592.4	593.0	593.7	594.0	594.3	594.6	594.9
127.5°	628.6	629.3	629.7	630.5	631.4	632.2	633.0	633.5	634.0	634.5	635.0
130°	664.2	664.9	665.2	665.9	666.6	667.2	667.9	668.5	669.2	669.8	670.5
132.5°	698.3	699.0	699.3	699.8	700.3	700.8	701.3	701.9	702.6	703.2	703.9
135°	731.9	732.4	732.7	733.4	734.1	734.7	735.4	735.9	736.4	736.9	737.4
137.5°	762.9	763.6	763.8	764.1	764.4	764.8	765.1	765.9	766.7	767.6	768.4
140°	791.3	791.8	792.0	792.5	793.0	793.5	794.0	794.7	795.3	796.0	796.7
142.5°	818.7	819.2	819.5	820.0	820.5	821.0	821.5	822.0	822.5	823.0	823.5
145°	844.6	845.2	845.4	845.7	846.0	846.4	846.7	847.0	847.4	847.7	848.0
147.5°	867.8	868.2	868.4	868.7	869.0	869.4	869.7	870.0	870.4	870.7	871.0
150°	888.8	889.0	889.2	889.5	889.8	890.2	890.5	890.8	891.2	891.5	891.8
152.5°	907.5	907.6	907.7	907.8	908.0	908.1	908.3	909.0	909.6	910.3	911.0
155°	924.1	923.9	924.0	924.1	924.3	924.4	924.6	925.4	926.2	927.1	927.9
157.5°	940.2	940.2	940.1	940.0	939.8	939.7	939.5	940.5	941.5	942.4	943.4
160°	952.9	952.8	952.7	952.6	952.4	952.3	952.1	953.1	954.1	955.0	956.0
162.5°	964.2	963.9	963.8	963.7	963.5	963.4	963.2	964.4	965.5	966.7	967.8
165°	973.8	973.6	973.5	973.4	973.2	973.1	972.9	974.2	975.5	976.8	978.1
167.5°	981.3	981.0	981.0	981.0	981.0	981.0	981.0	982.3	983.7	985.0	986.3
170°	988.0	987.7	987.7	987.7	987.7	987.7	987.7	989.0	990.3	991.6	992.9
172.5°	991.8	991.4	991.5	991.6	991.8	991.9	992.1	993.4	994.8	996.1	997.4
175°	995.5	995.1	995.2	995.4	995.5	995.7	995.9	997.1	998.2	999.4	1000.5
177.5°	997.0	996.6	996.7	996.8	997.0	997.1	997.3	998.6	1000.0	1001.3	1002.6
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	835.1	835.9	833.6	829.1	828.3	829.8	834.3	832.8	829.1	835.9	829.8
5°	789.0	785.2	783.7	785.2	780.6	778.4	782.9	780.6	782.9	783.7	785.9
7.5°	744.3	745.1	740.5	741.3	735.3	736.8	736.8	736.8	739.0	740.5	743.6
10°	705.8	707.3	702.0	702.7	698.2	695.2	697.4	702.0	702.0	702.0	703.5
12.5°	674.7	667.9	664.1	663.4	658.1	656.6	661.1	662.6	666.4	666.4	668.7
15°	636.2	634.6	631.6	631.6	618.8	621.8	623.3	628.6	636.2	630.1	631.6
17.5°	601.4	597.6	593.8	592.3	590.8	586.2	592.3	591.5	596.1	596.8	599.1
20°	570.4	567.3	559.8	560.5	562.0	555.2	559.0	559.0	563.5	568.1	573.4
22.5°	540.1	537.1	533.3	534.8	530.3	528.7	528.7	532.5	537.8	541.6	540.9
25°	516.6	511.3	509.1	506.8	504.5	506.1	503.8	507.6	511.3	513.6	511.3
27.5°	490.2	487.9	483.4	481.1	477.3	478.8	480.3	483.4	485.6	485.6	487.9
30°	464.5	461.4	459.9	457.6	457.6	454.6	455.4	458.4	460.7	462.9	466.0
32.5°	439.5	437.2	434.9	434.9	433.4	432.7	431.9	436.5	436.5	441.0	441.0
35°	419.1	415.3	415.3	411.5	413.0	412.3	410.7	413.8	414.5	417.6	416.8
37.5°	396.4	396.4	394.9	391.1	388.1	388.8	392.6	392.6	394.9	394.1	396.4
40°	373.7	372.2	372.2	369.9	369.1	368.4	369.1	369.9	373.7	372.9	373.7
42.5°	351.0	351.7	348.0	348.0	348.0	345.7	346.4	347.2	348.7	350.2	352.5
45°	329.0	327.5	326.8	325.3	323.8	324.5	323.8	326.8	326.0	327.5	329.8
47.5°	305.6	303.3	302.6	299.5	299.5	301.1	300.3	302.6	303.3	305.6	304.1
50°	282.9	279.9	277.6	278.4	273.8	275.3	275.3	277.6	279.9	280.6	282.1
52.5°	256.4	255.7	254.9	251.1	250.4	249.6	250.4	251.1	254.2	256.4	257.2
55°	230.7	230.0	225.4	223.9	221.6	221.6	223.1	223.9	229.2	230.0	233.0
57.5°	207.3	205.0	199.7	198.9	198.9	198.9	196.7	199.7	201.2	205.0	205.0
60°	181.5	181.5	177.0	177.0	177.8	177.0	177.0	177.8	177.8	180.8	182.3
62.5°	161.1	160.4	160.4	158.9	158.1	158.9	158.1	158.1	158.9	161.1	163.4
65°	143.0	142.2	141.5	140.7	139.2	139.2	139.9	141.5	141.5	143.0	143.7
67.5°	125.6	125.6	124.1	124.1	123.3	122.5	123.3	122.5	125.6	125.6	126.3
70°	108.2	107.4	105.1	104.4	102.1	102.9	102.9	105.1	105.9	107.4	108.9
72.5°	87.0	87.0	85.5	84.0	84.7	83.2	83.2	84.0	84.0	86.2	87.0
75°	71.9	70.3	69.6	70.3	69.6	71.1	69.6	69.6	71.1	71.1	71.1
77.5°	59.0	59.0	58.2	58.2	59.0	58.2	59.0	59.0	59.0	58.2	59.0
80°	48.4	47.7	47.7	47.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9
82.5°	36.3	36.3	35.6	36.3	36.3	35.6	36.3	35.6	35.6	36.3	36.3
85°	24.2	25.7	24.2	24.2	25.0	25.0	25.7	25.0	25.7	24.2	25.0
87.5°	12.9	13.6	13.6	12.9	12.9	13.6	13.6	13.6	14.4	12.9	13.6
90°	20.8	21.0	21.3	21.6	22.0	22.3	22.0	21.6	21.3	21.0	20.8
92.5°	24.5	24.6	24.7	24.9	25.0	25.2	25.0	24.9	24.7	24.6	24.5
95°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
97.5°	29.7	29.8	29.9	30.1	30.2	30.4	30.2	30.1	29.9	29.8	29.7
100°	30.4	30.5	30.7	30.8	31.0	31.2	31.0	30.8	30.7	30.5	30.4
102.5°	30.4	30.6	30.9	31.2	31.6	31.9	31.6	31.2	30.9	30.6	30.4
105°	31.2	31.4	31.7	32.0	32.4	32.7	32.4	32.0	31.7	31.4	31.2
107.5°	174.4	163.6	142.0	120.4	98.8	77.2	98.8	120.4	142.0	163.6	174.4
110°	310.2	298.4	274.8	251.3	227.7	204.1	227.7	251.3	274.8	298.4	310.2

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	388.1	387.9	387.6	387.3	386.9	386.6	386.9	387.3	387.6	387.9	388.1
115°	433.4	433.7	434.4	435.0	435.7	436.3	435.7	435.0	434.4	433.7	433.4
117.5°	475.7	475.8	475.9	476.1	476.2	476.4	476.2	476.1	475.9	475.8	475.7
120°	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0	518.0
122.5°	558.0	558.1	558.3	558.4	558.6	558.8	558.6	558.4	558.3	558.1	558.0
125°	595.1	595.3	595.6	595.9	596.3	596.6	596.3	595.9	595.6	595.3	595.1
127.5°	635.2	635.0	634.7	634.4	634.0	633.7	634.0	634.4	634.7	635.0	635.2
130°	670.8	670.6	670.3	670.0	669.6	669.3	669.6	670.0	670.3	670.6	670.8
132.5°	704.2	704.0	703.5	703.0	702.5	702.0	702.5	703.0	703.5	704.0	704.2
135°	737.6	737.4	736.9	736.4	735.9	735.4	735.9	736.4	736.9	737.4	737.6
137.5°	768.8	768.6	768.3	768.0	767.6	767.3	767.6	768.0	768.3	768.6	768.8
140°	797.0	796.8	796.5	796.2	795.8	795.5	795.8	796.2	796.5	796.8	797.0
142.5°	823.7	823.5	823.0	822.5	822.0	821.5	822.0	822.5	823.0	823.5	823.7
145°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
147.5°	871.2	870.8	870.0	869.1	868.3	867.5	868.3	869.1	870.0	870.8	871.2
150°	892.0	891.7	891.2	890.7	890.2	889.7	890.2	890.7	891.2	891.7	892.0
152.5°	911.3	910.9	910.1	909.2	908.4	907.6	908.4	909.2	910.1	910.9	911.3
155°	928.3	927.8	926.8	925.9	924.9	923.9	924.9	925.9	926.8	927.8	928.3
157.5°	943.9	943.2	941.9	940.6	939.3	938.0	939.3	940.6	941.9	943.2	943.9
160°	956.5	955.9	954.8	953.6	952.5	951.3	952.5	953.6	954.8	955.9	956.5
162.5°	968.4	967.9	966.9	965.9	964.9	963.9	964.9	965.9	966.9	967.9	968.4
165°	978.8	978.2	977.1	975.9	974.8	973.6	974.8	975.9	977.1	978.2	978.8
167.5°	987.0	986.3	985.0	983.7	982.3	981.0	982.3	983.7	985.0	986.3	987.0
170°	993.6	992.9	991.6	990.3	989.0	987.7	989.0	990.3	991.6	992.9	993.6
172.5°	998.1	997.4	995.9	994.4	992.9	991.4	992.9	994.4	995.9	997.4	998.1
175°	1001.1	1000.4	999.1	997.8	996.4	995.1	996.4	997.8	999.1	1000.4	1001.1
177.5°	1003.3	1002.5	1000.8	999.2	997.5	995.9	997.5	999.2	1000.8	1002.5	1003.3
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5	883.5
2.5°	835.9	838.9	835.9	829.8	835.9	839.6	843.4	849.5	852.5	852.5	857.0
5°	788.2	794.3	792.0	790.5	796.5	800.3	806.4	813.9	822.2	827.5	833.6
7.5°	745.8	749.6	753.4	753.4	759.5	767.8	776.9	785.9	796.5	804.1	808.6
10°	708.8	711.8	714.1	717.1	726.2	735.3	747.4	758.7	767.8	776.1	783.7
12.5°	673.2	677.8	683.1	685.3	692.1	703.5	714.8	728.4	742.8	751.1	758.7
15°	639.2	641.5	647.5	654.3	660.4	672.5	686.8	701.2	713.3	726.2	733.0
17.5°	604.4	605.1	621.0	617.2	636.9	648.3	655.8	669.4	689.1	699.7	710.3
20°	570.4	577.9	584.7	588.5	599.1	612.0	633.9	644.5	660.4	670.2	679.3
22.5°	543.9	555.2	555.2	564.3	569.6	581.7	597.6	618.0	635.4	642.2	655.1
25°	520.4	525.7	534.8	537.8	547.7	558.2	568.8	590.8	609.7	618.8	627.8
27.5°	490.2	497.0	509.1	509.1	521.9	533.3	546.1	560.5	579.4	592.3	602.1
30°	466.7	473.5	478.8	487.1	492.4	503.0	525.7	536.3	553.0	564.3	576.4
32.5°	444.8	450.1	454.6	463.7	469.7	481.8	494.0	512.9	527.2	537.8	550.7
35°	420.6	425.9	431.9	438.7	447.8	459.2	470.5	486.4	500.8	510.6	521.2
37.5°	397.9	401.7	410.7	415.3	422.8	433.4	447.8	464.5	477.3	484.9	495.5
40°	375.9	379.0	385.8	394.1	399.4	407.7	422.8	437.2	453.1	462.2	470.5
42.5°	352.5	356.3	362.3	370.7	379.0	388.1	396.4	413.0	427.4	434.9	444.0
45°	332.1	334.3	338.9	347.2	355.5	362.3	375.2	390.3	403.9	410.0	419.8
47.5°	307.9	310.1	316.9	320.7	329.8	338.9	351.7	366.9	379.0	385.0	394.1
50°	282.9	285.2	289.7	298.0	304.1	313.9	325.3	338.1	353.3	361.6	366.9
52.5°	258.7	263.2	267.0	273.8	281.4	291.2	301.8	313.9	326.8	335.1	341.2
55°	234.5	238.3	242.8	246.6	255.7	264.8	276.9	288.2	299.5	307.1	313.9
57.5°	207.3	212.6	217.1	224.7	231.5	239.0	252.6	261.7	275.3	280.6	286.7
60°	183.8	189.1	192.9	198.9	205.0	214.8	223.9	235.3	246.6	253.4	261.0
62.5°	164.1	166.4	168.7	174.7	180.8	189.9	198.9	210.3	222.4	226.2	232.2
65°	144.5	146.7	150.5	155.8	160.4	165.7	175.5	184.6	195.9	202.0	204.2
67.5°	127.8	130.1	130.9	134.6	138.4	144.5	149.8	158.9	169.4	173.2	177.8
70°	108.9	112.7	113.5	116.5	118.0	121.8	127.8	134.6	143.0	149.8	153.6
72.5°	87.0	92.3	93.8	98.3	100.6	104.4	108.9	114.2	119.5	122.5	125.6
75°	71.1	72.6	73.4	77.2	80.9	86.2	88.5	91.5	96.1	99.8	102.9
77.5°	59.0	59.8	60.5	60.5	61.3	64.3	68.8	72.6	75.6	77.2	79.4
80°	47.7	46.9	46.9	47.7	47.7	47.7	49.2	54.5	56.0	59.8	59.0
82.5°	37.1	35.6	36.3	35.6	35.6	35.6	35.6	36.3	36.3	38.6	40.1
85°	24.2	25.0	24.2	24.2	23.4	24.2	23.4	23.4	22.7	22.7	21.9
87.5°	12.9	13.6	12.9	12.9	12.1	12.9	12.1	12.1	11.3	11.3	9.8
90°	20.5	19.8	19.1	18.5	17.8	15.7	13.5	11.4	9.3	8.2	7.4
92.5°	23.9	22.8	21.6	20.5	19.3	17.8	16.3	14.8	13.3	12.6	13.1
95°	27.6	26.5	25.3	24.2	23.0	21.2	19.4	17.5	15.7	14.8	18.2
97.5°	29.0	27.7	26.4	25.0	23.7	32.1	40.5	49.0	57.4	61.6	63.9
100°	29.7	28.4	27.1	25.8	24.5	50.2	76.0	101.7	127.4	140.3	138.6
102.5°	33.1	38.6	44.0	49.5	54.9	83.6	112.3	141.0	169.7	184.0	182.9
105°	45.8	75.0	104.1	133.3	162.5	177.3	192.2	207.0	221.9	229.3	228.4
107.5°	187.1	212.5	237.9	263.3	288.7	286.2	283.7	281.2	278.7	277.5	276.8
110°	312.9	318.4	323.8	329.3	334.7	332.9	331.1	329.2	327.4	326.5	325.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	387.4	385.9	384.4	382.9	381.4	379.6	377.8	376.0	374.2	373.3	372.7
115°	432.6	430.9	429.2	427.6	425.9	424.4	423.0	421.5	420.0	419.3	418.8
117.5°	475.0	473.7	472.4	471.0	469.7	468.9	468.1	467.2	466.4	466.0	465.4
120°	517.3	516.0	514.7	513.3	512.0	511.5	511.0	510.5	510.0	509.8	509.1
122.5°	557.6	556.8	555.9	555.1	554.3	553.7	553.0	552.4	551.7	551.4	550.8
125°	594.9	594.6	594.3	594.0	593.7	593.0	592.4	591.7	591.0	590.7	590.0
127.5°	635.0	634.5	634.0	633.5	633.0	632.2	631.4	630.5	629.7	629.3	628.6
130°	670.5	669.8	669.2	668.5	667.9	667.2	666.6	665.9	665.2	664.9	664.2
132.5°	703.9	703.2	702.6	701.9	701.3	700.8	700.3	699.8	699.3	699.0	698.3
135°	737.4	736.9	736.4	735.9	735.4	734.7	734.1	733.4	732.7	732.4	731.9
137.5°	768.4	767.6	766.7	765.9	765.1	764.8	764.4	764.1	763.8	763.6	762.9
140°	796.7	796.0	795.3	794.7	794.0	793.5	793.0	792.5	792.0	791.8	791.3
142.5°	823.5	823.0	822.5	822.0	821.5	821.0	820.5	820.0	819.5	819.2	818.7
145°	848.0	847.7	847.4	847.0	846.7	846.4	846.0	845.7	845.4	845.2	844.6
147.5°	871.0	870.7	870.4	870.0	869.7	869.4	869.0	868.7	868.4	868.2	867.8
150°	891.8	891.5	891.2	890.8	890.5	890.2	889.8	889.5	889.2	889.0	888.8
152.5°	911.0	910.3	909.6	909.0	908.3	908.1	908.0	907.8	907.7	907.6	907.5
155°	927.9	927.1	926.2	925.4	924.6	924.4	924.3	924.1	924.0	923.9	924.1
157.5°	943.4	942.4	941.5	940.5	939.5	939.7	939.8	940.0	940.1	940.2	940.2
160°	956.0	955.0	954.1	953.1	952.1	952.3	952.4	952.6	952.7	952.8	952.9
162.5°	967.8	966.7	965.5	964.4	963.2	963.4	963.5	963.7	963.8	963.9	964.2
165°	978.1	976.8	975.5	974.2	972.9	973.1	973.2	973.4	973.5	973.6	973.8
167.5°	986.3	985.0	983.7	982.3	981.0	981.0	981.0	981.0	981.0	981.0	981.3
170°	992.9	991.6	990.3	989.0	987.7	987.7	987.7	987.7	987.7	987.7	988.0
172.5°	997.4	996.1	994.8	993.4	992.1	991.9	991.8	991.6	991.5	991.4	991.8
175°	1000.5	999.4	998.2	997.1	995.9	995.7	995.5	995.4	995.2	995.1	995.5
177.5°	1002.6	1001.3	1000.0	998.6	997.3	997.1	997.0	996.8	996.7	996.6	997.0
180°	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8	998.8

TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	883.5	883.5	883.5	883.5
2.5°	860.8	866.1	876.7	885.8
5°	842.7	851.0	866.9	882.8
7.5°	820.7	833.6	854.0	876.0
10°	799.6	816.2	841.2	866.9
12.5°	778.4	795.8	822.2	855.5
15°	753.4	771.6	803.3	843.4
17.5°	731.5	755.7	784.4	824.5
20°	708.0	726.2	763.2	805.6
22.5°	678.5	708.8	743.6	788.2
25°	655.1	681.5	716.3	767.0
27.5°	626.3	657.3	699.7	744.3
30°	602.9	628.6	667.9	721.6
32.5°	575.6	605.9	646.8	699.7
35°	551.4	577.2	615.7	669.4
37.5°	522.7	550.7	593.8	641.5
40°	497.7	525.0	565.8	610.4
42.5°	467.5	496.2	537.1	574.9
45°	443.3	469.7	502.3	537.1
47.5°	413.8	441.8	473.5	497.7
50°	387.3	413.0	438.0	458.4
52.5°	358.5	382.0	404.7	419.8
55°	332.1	350.2	368.4	379.0
57.5°	301.1	318.5	333.6	339.6
60°	273.8	288.2	298.0	304.8
62.5°	245.1	255.7	263.2	267.0
65°	217.1	224.7	228.4	232.2
67.5°	188.4	195.2	197.4	202.0
70°	158.1	165.7	167.2	169.4
72.5°	135.4	135.4	138.4	141.5
75°	108.2	109.7	111.2	111.2
77.5°	84.7	84.7	86.2	87.0
80°	62.0	62.8	62.8	62.0
82.5°	42.4	43.9	42.4	41.6
85°	23.4	26.5	25.0	25.0
87.5°	9.8	9.8	11.3	9.8
90°	5.7	4.0	2.4	0.7
92.5°	14.1	15.1	16.1	17.1
95°	25.0	31.7	38.5	45.3
97.5°	68.5	73.2	77.8	82.4
100°	135.3	132.0	128.7	125.4
102.5°	180.8	178.7	176.5	174.4
105°	226.6	224.7	222.9	221.1
107.5°	275.3	273.8	272.4	270.9
110°	324.5	323.2	321.9	320.6



TEST NUMBER: P1031205

CATALOG NUMBER: S123RDIW-B560D755UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	371.6	370.4	369.3	368.1
115°	417.8	416.8	415.8	414.8
117.5°	464.3	463.1	462.0	460.8
120°	507.6	506.1	504.6	503.1
122.5°	549.7	548.5	547.4	546.2
125°	588.7	587.4	586.1	584.8
127.5°	627.3	626.0	624.6	623.3
130°	662.9	661.6	660.3	659.0
132.5°	697.0	695.7	694.4	693.1
135°	730.9	730.0	729.0	728.0
137.5°	761.6	760.3	759.0	757.7
140°	790.3	789.3	788.3	787.3
142.5°	817.7	816.8	815.8	814.8
145°	843.5	842.3	841.2	840.0
147.5°	867.0	866.1	865.3	864.5
150°	888.3	887.8	887.3	886.8
152.5°	907.3	907.2	907.0	906.8
155°	924.4	924.7	925.1	925.4
157.5°	940.2	940.2	940.2	940.2
160°	953.1	953.2	953.4	953.6
162.5°	964.7	965.2	965.7	966.2
165°	974.3	974.8	975.3	975.8
167.5°	982.0	982.7	983.3	984.0
170°	988.7	989.4	990.0	990.7
172.5°	992.6	993.5	994.3	995.1
175°	996.3	997.2	998.0	998.8
177.5°	997.8	998.7	999.5	1000.3
180°	998.8	998.8	998.8	998.8

(END OF REPORT)