

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: P1030912

Luminaire Tested: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030912
REPORT IS A COMBINATION OF REPORTS P991720 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

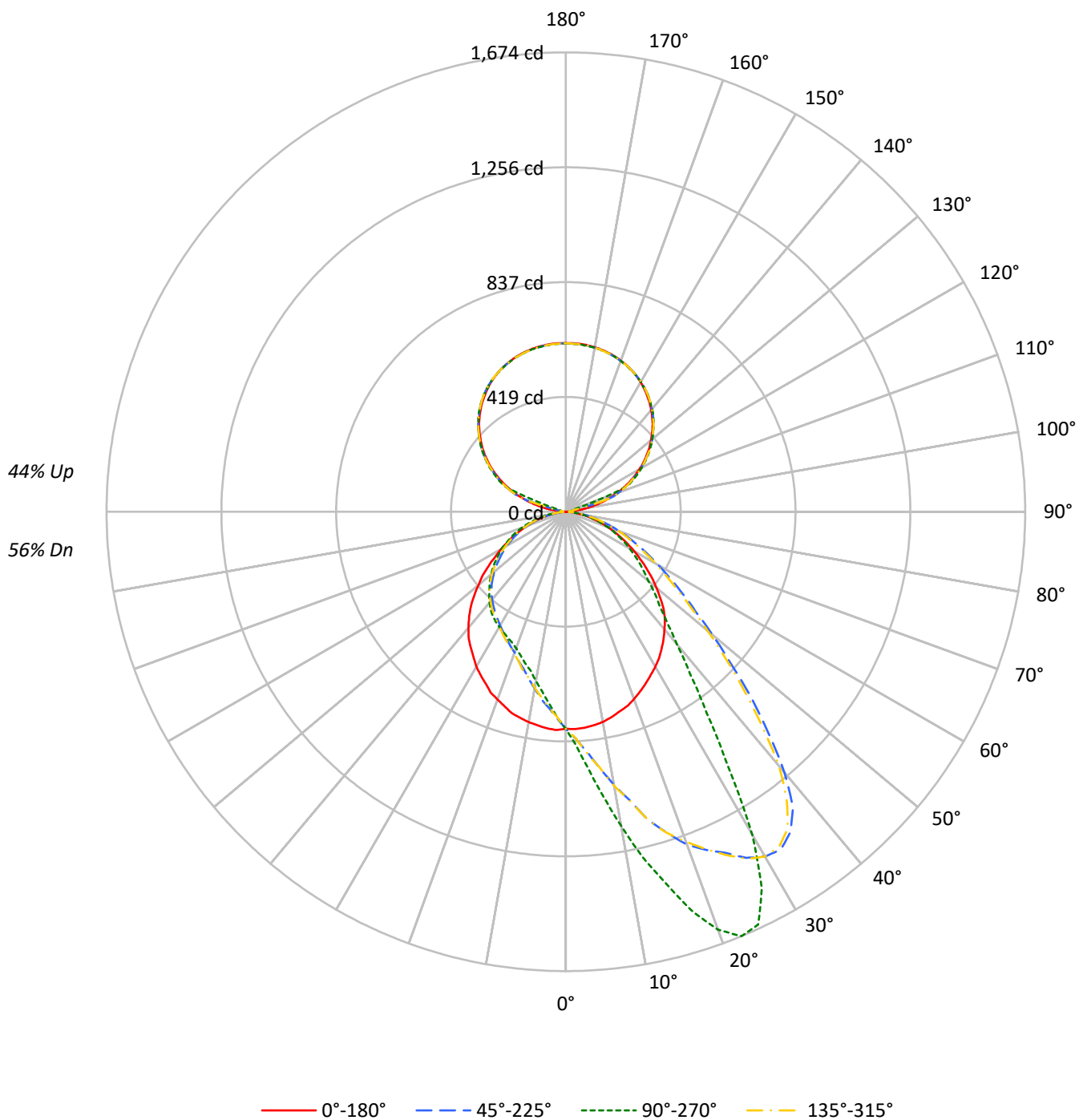
Lumens per Lamp: N/A
Luminaire Lumens: 4259.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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			0
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	99	95	91	88	92	89	85	82	77	74	72	65	64	62	55	54	53	48		
2	91	83	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41		
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35		
4	76	65	57	51	71	61	54	49	53	48	43	46	42	38	39	36	33	30		
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26		
6	64	52	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23		
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20		
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18		
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	16		
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8509	8509	8509	8509
5°	8515	9805	8540	7317
10°	8461	11865	8469	6390
15°	8344	14071	8412	5752
20°	8243	16200	8260	5292
25°	8093	16608	8112	5053
30°	7987	13721	7987	4896
35°	7854	9177	7805	4758
40°	7696	6625	7601	4545
45°	7497	5247	7282	4281
50°	7013	4457	6765	4022
55°	6481	3916	6219	3732
60°	5943	3409	5627	3429
65°	5352	2920	5093	3024
70°	4738	2423	4420	2550
75°	4051	1827	3789	1969
80°	3203	1219	2953	1293
85°	2209	561	1767	510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 13723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.8
10°-20°	249.7	5.9
20°-30°	420.2	9.9
30°-40°	474.8	11.1
40°-50°	425.3	10.0
50°-60°	343.3	8.1
60°-70°	239.2	5.6
70°-80°	125.6	2.9
80°-90°	31.3	0.7
90°-100°	21.7	0.5
100°-110°	104.7	2.5
110°-120°	256.5	6.0
120°-130°	325.6	7.6
130°-140°	347.9	8.2
140°-150°	325.3	7.6
150°-160°	262.4	6.2
160°-170°	169.3	4.0
170°-180°	58.4	1.4
0°-30°	747.6	17.6
0°-40°	1222.5	28.7
0°-60°	1991.1	46.8
0°-90°	2387.2	56.1
90°-120°	382.9	9.0
90°-150°	1381.7	32.4
90°-180°	1872.0	44.0
0°-180°	4259.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	790	939	792	701	790	75
15°	754	1398	760	572	754	213
25°	689	1659	691	505	689	318
35°	608	894	604	464	608	381
45°	505	483	490	394	505	386
55°	358	328	343	312	358	320
65°	221	213	211	221	221	220
75°	106	110	100	118	106	114
85°	23	25	18	23	23	26
90°	0	14	0	14	0	3
95°	28	17	28	17	28	33
105°	136	20	136	20	136	144
115°	255	268	255	268	255	252
125°	359	367	359	367	359	321
135°	448	452	448	452	448	345
145°	516	521	516	521	516	323
155°	569	568	569	568	569	262
165°	600	598	600	598	600	169
175°	614	612	614	612	614	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	792.8	799.0	802.0	806.6	811.2	818.1	820.4	824.3	822.7	825.8	827.3
5°	789.8	800.5	809.7	821.2	831.9	839.6	847.2	859.5	868.7	870.2	877.1
7.5°	784.4	799.7	815.8	831.9	852.6	864.9	878.6	895.5	909.3	931.5	939.9
10°	777.5	799.0	822.0	844.2	872.5	891.7	908.5	936.9	965.2	988.2	1009.6
12.5°	766.8	793.6	823.5	856.4	893.2	915.4	938.4	975.9	1018.8	1054.1	1077.0
15°	753.8	787.5	825.8	861.0	901.6	943.0	967.5	1009.6	1070.9	1103.9	1162.8
17.5°	743.1	777.5	815.8	871.0	926.1	967.5	985.1	1062.5	1104.6	1159.8	1226.4
20°	726.2	769.9	818.9	874.0	945.3	970.6	1006.6	1084.7	1136.8	1208.8	1290.8
22.5°	708.6	755.3	814.3	871.7	951.4	978.2	1027.3	1089.3	1172.0	1243.3	1333.7
25°	689.4	740.0	799.7	867.9	946.1	985.1	1031.1	1107.7	1197.3	1286.9	1370.4
27.5°	670.3	725.4	787.5	855.7	931.5	977.5	1023.4	1103.1	1218.0	1315.3	1421.8
30°	651.9	707.0	769.1	838.8	918.5	962.9	1006.6	1106.2	1234.1	1343.6	1450.9
32.5°	632.0	688.7	753.8	812.0	892.4	939.9	989.0	1106.2	1244.0	1360.5	1458.5
35°	608.2	666.5	722.4	780.6	860.3	913.1	968.3	1098.5	1253.2	1365.8	1426.4
37.5°	585.3	636.6	684.8	741.5	825.0	881.7	945.3	1089.3	1248.6	1342.9	1359.7
40°	559.2	610.5	649.6	702.5	790.5	856.4	920.8	1077.0	1228.7	1288.5	1239.4
42.5°	533.9	574.5	608.2	659.6	755.3	819.7	889.4	1054.8	1189.7	1201.9	1091.6
45°	504.8	533.9	563.8	622.0	717.0	782.9	860.3	1022.7	1126.8	1091.6	952.2
47.5°	467.3	493.3	526.3	579.9	676.4	744.6	818.1	981.3	1035.7	962.1	809.7
50°	431.3	453.5	484.1	536.2	633.5	700.2	778.3	916.2	943.0	827.3	697.9
52.5°	395.3	412.1	442.0	494.1	591.4	655.7	727.0	849.5	834.2	710.1	595.2
55°	357.7	372.3	400.6	452.0	542.4	603.6	671.8	767.6	727.7	609.8	517.8
57.5°	321.0	336.3	365.4	408.3	493.3	553.1	607.5	682.5	622.8	528.6	447.4
60°	288.0	301.1	323.3	365.4	442.8	491.0	540.8	592.1	542.4	451.2	389.1
62.5°	253.6	265.8	286.5	324.8	391.4	434.3	474.2	516.3	461.2	394.5	339.4
65°	221.4	231.3	250.5	285.7	340.1	375.4	407.5	436.6	392.2	330.9	289.6
67.5°	192.3	200.7	216.8	248.2	294.2	319.4	345.5	370.0	332.5	283.4	248.2
70°	160.9	167.8	182.3	205.3	242.1	268.1	287.3	305.6	271.9	232.9	209.1
72.5°	133.3	140.2	149.4	173.1	198.4	214.5	235.2	245.1	226.0	193.8	170.1
75°	106.5	111.8	120.3	135.6	159.3	170.1	183.1	190.7	173.1	151.7	137.1
77.5°	83.5	85.8	91.9	102.6	118.7	131.0	141.0	145.5	133.3	119.5	107.2
80°	59.0	62.0	66.6	75.8	88.1	91.9	98.1	103.4	95.8	83.5	75.8
82.5°	39.1	42.9	45.2	49.0	56.7	61.3	62.8	67.4	60.5	55.9	52.9
85°	23.0	24.5	25.3	27.6	31.4	33.7	36.0	36.8	35.2	34.5	31.4
87.5°	11.5	11.5	11.5	13.0	13.8	15.3	16.1	16.1	16.1	15.3	14.6
90°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.6	10.9
92.5°	10.5	9.9	9.3	8.7	8.1	7.8	8.3	9.2	10.1	11.0	11.9
95°	27.8	23.6	19.5	15.3	11.2	9.1	9.7	10.8	11.9	13.0	14.1
97.5°	50.6	47.8	45.0	42.1	39.3	37.9	35.3	30.1	25.0	19.8	14.6
100°	77.1	79.1	81.1	83.2	85.2	86.2	78.3	62.5	46.7	30.9	15.1
102.5°	107.2	108.5	109.8	111.1	112.4	113.1	104.3	86.7	69.0	51.4	33.8
105°	135.9	137.0	138.2	139.3	140.4	141.0	136.4	127.3	118.2	109.0	99.9
107.5°	166.5	167.4	168.3	169.2	170.1	170.6	171.4	172.9	174.4	175.9	177.4
110°	197.1	197.9	198.7	199.5	200.3	200.7	201.3	202.4	203.5	204.6	205.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	226.3	227.0	227.7	228.4	229.1	229.4	230.0	231.1	232.2	233.4	234.5
115°	255.0	255.6	256.2	256.8	257.4	257.7	258.2	259.1	260.0	260.9	261.8
117.5°	283.3	284.0	284.7	285.4	286.1	286.5	286.7	287.2	287.7	288.2	288.7
120°	309.3	310.2	311.1	312.0	312.9	313.4	313.5	313.8	314.1	314.4	314.7
122.5°	335.7	336.4	337.1	337.8	338.5	338.9	339.1	339.5	339.9	340.3	340.7
125°	359.4	360.2	361.0	361.9	362.7	363.1	363.3	363.7	364.1	364.5	364.9
127.5°	383.2	384.0	384.8	385.6	386.4	386.8	387.1	387.6	388.1	388.6	389.1
130°	405.1	405.9	406.7	407.5	408.3	408.7	408.9	409.3	409.7	410.1	410.5
132.5°	426.0	426.8	427.6	428.5	429.3	429.7	429.9	430.2	430.5	430.8	431.1
135°	447.5	448.1	448.7	449.3	449.9	450.2	450.4	450.8	451.2	451.6	452.0
137.5°	465.7	466.5	467.3	468.2	469.0	469.4	469.5	469.7	469.9	470.1	470.3
140°	484.0	484.6	485.2	485.8	486.4	486.7	486.9	487.2	487.5	487.8	488.1
142.5°	500.9	501.5	502.1	502.7	503.3	503.6	503.8	504.1	504.4	504.7	505.0
145°	516.4	517.1	517.8	518.5	519.2	519.6	519.7	519.9	520.1	520.3	520.5
147.5°	531.4	531.9	532.4	532.9	533.4	533.7	533.8	534.0	534.2	534.4	534.6
150°	545.1	545.4	545.7	546.0	546.3	546.5	546.6	546.8	547.0	547.2	547.4
152.5°	557.4	557.5	557.6	557.7	557.8	557.9	557.9	558.0	558.1	558.2	558.3
155°	568.8	568.6	568.4	568.2	568.0	567.9	568.0	568.1	568.2	568.3	568.4
157.5°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.8	577.7	577.6	577.5
160°	586.2	586.1	586.0	585.9	585.8	585.7	585.6	585.5	585.4	585.3	585.2
162.5°	593.9	593.6	593.3	593.0	592.7	592.5	592.5	592.4	592.3	592.2	592.1
165°	599.8	599.5	599.2	598.9	598.6	598.5	598.4	598.3	598.2	598.1	598.0
167.5°	604.9	604.5	604.1	603.6	603.2	603.0	603.0	603.0	603.0	603.0	603.0
170°	609.0	608.6	608.2	607.7	607.3	607.1	607.1	607.1	607.1	607.1	607.1
172.5°	611.7	611.2	610.7	610.2	609.7	609.4	609.5	609.6	609.7	609.8	609.9
175°	614.0	613.5	613.0	612.5	612.0	611.7	611.8	611.9	612.0	612.1	612.2
177.5°	614.9	614.4	613.9	613.4	612.9	612.6	612.7	612.8	612.9	613.0	613.1
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	832.7	834.2	839.6	843.4	851.1	850.3	850.3	849.5	847.2	851.1	853.4
5°	890.9	903.9	905.5	922.3	923.1	930.0	934.6	930.7	939.9	939.2	932.3
7.5°	962.9	980.5	989.0	1005.0	1023.4	1018.8	1036.4	1039.5	1038.0	1045.6	1051.0
10°	1041.8	1072.4	1093.9	1123.8	1131.4	1136.0	1147.5	1157.5	1177.4	1162.1	1172.0
12.5°	1132.2	1154.4	1182.8	1230.3	1254.0	1269.3	1274.7	1281.6	1295.4	1286.9	1287.7
15°	1208.0	1237.9	1286.2	1345.2	1352.1	1371.2	1366.6	1408.0	1427.9	1398.0	1414.9
17.5°	1286.9	1326.8	1384.2	1435.5	1464.7	1477.7	1489.9	1529.8	1528.2	1523.6	1527.5
20°	1337.5	1402.6	1473.9	1542.0	1550.5	1560.4	1593.4	1610.2	1607.1	1620.2	1628.6
22.5°	1408.7	1477.7	1553.5	1598.7	1617.9	1629.4	1655.4	1666.1	1670.7	1673.8	1668.4
25°	1468.5	1542.0	1597.9	1637.8	1649.3	1655.4	1663.8	1666.9	1664.6	1659.2	1663.8
27.5°	1509.1	1568.1	1606.4	1624.8	1618.6	1608.7	1592.6	1581.9	1558.1	1546.6	1560.4
30°	1525.9	1552.0	1563.5	1532.8	1502.2	1477.7	1447.0	1390.4	1345.9	1358.9	1341.3
32.5°	1499.1	1482.3	1427.1	1348.2	1324.5	1284.6	1198.1	1131.4	1133.7	1098.5	1113.0
35°	1420.2	1343.6	1239.4	1119.9	1088.5	1067.1	972.1	957.5	926.9	894.0	903.2
37.5°	1280.8	1169.0	1042.6	954.5	907.8	861.0	807.4	775.2	756.8	743.1	753.8
40°	1110.8	974.4	870.2	791.3	751.5	721.6	684.8	652.7	632.0	629.7	633.5
42.5°	943.8	828.8	733.1	658.0	645.0	609.8	586.0	560.7	554.6	544.7	550.0
45°	799.0	705.5	626.6	565.3	550.0	540.8	511.7	495.6	488.7	482.6	491.8
47.5°	694.0	596.0	538.5	501.8	486.4	471.1	455.0	444.3	438.9	439.7	438.9
50°	592.9	520.9	470.3	442.0	432.8	422.1	409.1	402.2	399.9	393.0	398.3
52.5°	510.2	458.1	422.9	396.0	389.1	381.5	370.8	366.9	361.6	360.0	360.0
55°	443.5	402.9	374.6	357.0	348.5	342.4	336.3	331.7	327.9	327.9	327.9
57.5°	391.4	356.2	335.5	320.2	317.1	311.0	304.1	304.1	298.8	298.0	300.3
60°	347.0	315.6	299.5	286.5	281.9	280.4	273.5	273.5	271.9	268.1	271.2
62.5°	301.8	278.8	265.0	255.1	250.5	250.5	245.1	241.3	241.3	242.1	240.5
65°	260.5	243.6	231.3	223.7	221.4	218.3	217.6	214.5	212.2	213.0	212.2
67.5°	223.7	210.7	202.2	196.1	192.3	190.7	188.4	188.4	186.9	187.7	183.8
70°	190.7	177.7	170.8	164.7	163.2	163.2	160.1	160.9	159.3	161.6	160.1
72.5°	157.0	147.1	141.7	139.4	137.9	137.1	135.6	134.1	133.3	134.8	134.1
75°	127.2	118.7	114.9	113.4	111.8	111.8	111.1	110.3	109.5	109.5	109.5
77.5°	98.8	93.5	88.9	90.4	88.1	88.9	86.6	86.6	87.3	86.6	86.6
80°	72.8	68.9	68.9	67.4	64.3	65.9	65.9	63.6	62.8	64.3	62.0
82.5°	48.3	47.5	46.0	45.2	43.7	44.4	43.7	42.9	42.1	43.7	42.1
85°	28.3	28.3	27.6	26.0	27.6	26.8	26.0	26.0	25.3	25.3	25.3
87.5°	14.6	13.0	13.0	12.3	13.0	11.5	12.3	11.5	10.7	11.5	10.7
90°	11.3	11.7	12.2	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	12.6	13.3	14.0	14.7	15.1	15.1	15.2	15.3	15.4	15.5	15.4
95°	14.8	15.5	16.2	16.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	15.4	16.2	17.0	17.8	18.2	18.3	18.4	18.5	18.6	18.7	18.6
100°	15.9	16.7	17.5	18.3	18.7	18.8	18.9	19.0	19.1	19.2	19.1
102.5°	30.4	27.1	23.7	20.4	18.7	18.8	19.0	19.2	19.4	19.6	19.4
105°	82.0	64.0	46.1	28.2	19.2	19.3	19.5	19.7	19.9	20.1	19.9
107.5°	161.8	146.2	130.6	115.0	107.2	100.6	87.3	74.0	60.7	47.4	60.7
110°	202.4	199.0	195.7	192.4	190.7	183.4	168.9	154.4	139.9	125.4	139.9

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	235.4	236.3	237.2	238.1	238.6	238.5	238.3	238.1	237.9	237.7	237.9
115°	262.8	263.8	264.9	265.9	266.4	266.6	267.0	267.4	267.8	268.2	267.8
117.5°	289.5	290.3	291.2	292.0	292.4	292.4	292.5	292.6	292.7	292.8	292.7
120°	315.5	316.3	317.2	318.0	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	341.2	341.7	342.2	342.7	343.0	343.1	343.2	343.3	343.4	343.5	343.4
125°	365.1	365.3	365.5	365.7	365.8	365.9	366.1	366.3	366.5	366.7	366.5
127.5°	389.4	389.7	390.0	390.3	390.5	390.4	390.2	390.0	389.8	389.6	389.8
130°	410.9	411.3	411.8	412.2	412.4	412.3	412.1	411.8	411.6	411.4	411.6
132.5°	431.5	431.9	432.3	432.7	432.9	432.7	432.4	432.1	431.8	431.5	431.8
135°	452.3	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	452.3
137.5°	470.8	471.3	471.8	472.3	472.6	472.5	472.3	472.1	471.9	471.7	471.9
140°	488.5	488.9	489.3	489.7	489.9	489.8	489.6	489.4	489.2	489.0	489.2
142.5°	505.3	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	505.3
145°	520.7	520.9	521.1	521.3	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	534.8	535.0	535.2	535.4	535.5	535.2	534.7	534.2	533.7	533.2	533.7
150°	547.6	547.8	548.0	548.2	548.3	548.1	547.8	547.5	547.2	546.9	547.2
152.5°	558.7	559.1	559.6	560.0	560.2	559.9	559.4	558.9	558.4	557.9	558.4
155°	568.9	569.4	569.9	570.4	570.6	570.3	569.7	569.1	568.5	567.9	568.5
157.5°	578.1	578.7	579.3	579.9	580.2	579.8	579.0	578.2	577.4	576.6	577.4
160°	585.8	586.4	587.1	587.7	588.0	587.6	586.9	586.2	585.5	584.8	585.5
162.5°	592.8	593.5	594.2	594.9	595.3	595.0	594.4	593.7	593.1	592.5	593.1
165°	598.8	599.6	600.5	601.3	601.7	601.3	600.6	599.9	599.2	598.5	599.2
167.5°	603.8	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.8
170°	607.9	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.9
172.5°	610.7	611.5	612.3	613.1	613.5	613.0	612.1	611.2	610.3	609.4	610.3
175°	612.9	613.6	614.3	615.0	615.3	614.9	614.1	613.3	612.5	611.7	612.5
177.5°	613.9	614.7	615.5	616.3	616.7	616.2	615.2	614.2	613.2	612.2	613.2
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	847.2	849.5	843.4	841.9	841.9	844.9	842.6	822.0	825.8	821.2	819.7
5°	940.7	936.1	930.0	926.9	923.1	912.3	911.6	887.8	883.2	867.9	861.0
7.5°	1043.3	1039.5	1021.1	1018.8	1017.3	1007.3	982.1	956.8	938.4	920.8	903.9
10°	1160.5	1149.1	1140.6	1123.8	1115.3	1101.6	1068.6	1044.9	1013.5	986.7	951.4
12.5°	1301.5	1288.5	1260.1	1247.9	1237.1	1198.8	1165.9	1139.1	1077.8	1059.4	1015.8
15°	1404.9	1377.3	1374.3	1347.5	1345.9	1303.8	1241.0	1211.9	1164.4	1097.0	1051.8
17.5°	1516.7	1492.2	1473.1	1440.9	1436.3	1396.5	1350.5	1279.3	1227.2	1162.8	1105.4
20°	1598.7	1585.7	1552.8	1539.7	1512.9	1479.2	1431.7	1343.6	1280.0	1215.7	1145.2
22.5°	1663.8	1650.8	1624.8	1607.1	1591.8	1548.2	1491.5	1416.4	1329.1	1244.8	1172.0
25°	1663.1	1659.2	1648.5	1640.1	1628.6	1596.4	1548.9	1476.9	1379.6	1286.9	1185.8
27.5°	1568.8	1579.6	1597.9	1607.1	1604.8	1600.2	1573.4	1512.9	1425.6	1315.3	1201.9
30°	1372.7	1411.8	1446.3	1492.2	1506.0	1539.7	1555.1	1520.6	1450.9	1348.2	1222.6
32.5°	1138.3	1195.0	1270.1	1295.4	1339.0	1404.1	1476.9	1489.9	1446.3	1367.4	1235.6
35°	933.8	980.5	1038.7	1078.6	1117.6	1223.4	1315.3	1394.9	1409.5	1357.4	1232.5
37.5°	772.9	805.9	857.2	890.9	926.9	1017.3	1146.0	1249.4	1322.2	1323.7	1224.1
40°	656.5	671.0	715.5	740.0	774.5	852.6	967.5	1102.3	1208.8	1257.8	1201.9
42.5°	556.1	575.3	612.1	630.4	652.7	720.8	796.7	924.6	1056.4	1161.3	1160.5
45°	496.4	510.2	527.0	542.4	567.6	608.2	694.8	790.5	916.9	1035.7	1082.4
47.5°	443.5	456.6	473.4	478.0	494.9	533.2	586.0	669.5	787.5	905.5	993.5
50°	399.1	409.8	421.3	429.7	437.4	468.8	508.6	579.1	673.3	787.5	897.0
52.5°	364.6	372.3	382.3	386.8	393.7	416.7	447.4	499.5	576.8	681.0	787.5
55°	332.5	337.8	343.9	351.6	354.7	371.5	395.3	439.7	497.2	590.6	691.7
57.5°	302.6	304.9	308.7	313.3	317.1	331.7	352.4	382.3	432.8	504.8	600.6
60°	268.9	275.0	277.3	281.9	284.2	295.7	311.8	337.1	376.1	438.2	510.2
62.5°	240.5	244.4	248.2	250.5	255.9	259.7	272.7	295.7	327.9	373.8	438.9
65°	215.3	216.8	219.1	221.4	222.9	227.5	239.8	255.1	279.6	320.2	370.8
67.5°	186.1	187.7	190.7	191.5	193.0	199.2	206.1	219.1	239.8	270.4	311.8
70°	157.8	160.1	161.6	163.2	165.5	167.8	175.4	186.1	202.2	223.7	255.9
72.5°	133.3	135.6	135.6	137.1	136.4	139.4	147.1	154.7	165.5	183.1	211.4
75°	108.8	108.8	110.3	111.1	111.8	114.9	118.0	124.1	132.5	146.3	163.9
77.5°	85.8	85.0	86.6	86.6	86.6	88.9	91.9	95.0	100.4	110.3	124.1
80°	62.8	62.8	64.3	65.1	63.6	64.3	65.9	68.9	72.8	79.7	87.3
82.5°	41.4	44.4	43.7	44.4	43.7	45.2	46.0	46.7	48.3	51.3	56.7
85°	25.3	25.3	25.3	26.0	25.3	26.0	26.0	26.0	26.8	28.3	30.6
87.5°	10.7	10.7	10.7	11.5	10.7	10.7	11.5	10.7	11.5	11.5	12.3
90°	13.3	13.1	12.9	12.8	12.6	12.2	11.7	11.3	10.9	9.6	8.3
92.5°	15.3	15.2	15.1	15.1	14.7	14.0	13.3	12.6	11.9	11.0	10.1
95°	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.8	14.1	13.0	11.9
97.5°	18.5	18.4	18.3	18.2	17.8	17.0	16.2	15.4	14.6	19.8	25.0
100°	19.0	18.9	18.8	18.7	18.3	17.5	16.7	15.9	15.1	30.9	46.7
102.5°	19.2	19.0	18.8	18.7	20.4	23.7	27.1	30.4	33.8	51.4	69.0
105°	19.7	19.5	19.3	19.2	28.2	46.1	64.0	82.0	99.9	109.0	118.2
107.5°	74.0	87.3	100.6	107.2	115.0	130.6	146.2	161.8	177.4	175.9	174.4
110°	154.4	168.9	183.4	190.7	192.4	195.7	199.0	202.4	205.7	204.6	203.5

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	238.1	238.3	238.5	238.6	238.1	237.2	236.3	235.4	234.5	233.4	232.2
115°	267.4	267.0	266.6	266.4	265.9	264.9	263.8	262.8	261.8	260.9	260.0
117.5°	292.6	292.5	292.4	292.4	292.0	291.2	290.3	289.5	288.7	288.2	287.7
120°	318.4	318.4	318.4	318.4	318.0	317.2	316.3	315.5	314.7	314.4	314.1
122.5°	343.3	343.2	343.1	343.0	342.7	342.2	341.7	341.2	340.7	340.3	339.9
125°	366.3	366.1	365.9	365.8	365.7	365.5	365.3	365.1	364.9	364.5	364.1
127.5°	390.0	390.2	390.4	390.5	390.3	390.0	389.7	389.4	389.1	388.6	388.1
130°	411.8	412.1	412.3	412.4	412.2	411.8	411.3	410.9	410.5	410.1	409.7
132.5°	432.1	432.4	432.7	432.9	432.7	432.3	431.9	431.5	431.1	430.8	430.5
135°	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	451.6	451.2
137.5°	472.1	472.3	472.5	472.6	472.3	471.8	471.3	470.8	470.3	470.1	469.9
140°	489.4	489.6	489.8	489.9	489.7	489.3	488.9	488.5	488.1	487.8	487.5
142.5°	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	504.7	504.4
145°	521.4	521.4	521.4	521.4	521.3	521.1	520.9	520.7	520.5	520.3	520.1
147.5°	534.2	534.7	535.2	535.5	535.4	535.2	535.0	534.8	534.6	534.4	534.2
150°	547.5	547.8	548.1	548.3	548.2	548.0	547.8	547.6	547.4	547.2	547.0
152.5°	558.9	559.4	559.9	560.2	560.0	559.6	559.1	558.7	558.3	558.2	558.1
155°	569.1	569.7	570.3	570.6	570.4	569.9	569.4	568.9	568.4	568.3	568.2
157.5°	578.2	579.0	579.8	580.2	579.9	579.3	578.7	578.1	577.5	577.6	577.7
160°	586.2	586.9	587.6	588.0	587.7	587.1	586.4	585.8	585.2	585.3	585.4
162.5°	593.7	594.4	595.0	595.3	594.9	594.2	593.5	592.8	592.1	592.2	592.3
165°	599.9	600.6	601.3	601.7	601.3	600.5	599.6	598.8	598.0	598.1	598.2
167.5°	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.0	603.0
170°	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.1	607.1
172.5°	611.2	612.1	613.0	613.5	613.1	612.3	611.5	610.7	609.9	609.8	609.7
175°	613.3	614.1	614.9	615.3	615.0	614.3	613.6	612.9	612.2	612.1	612.0
177.5°	614.2	615.2	616.2	616.7	616.3	615.5	614.7	613.9	613.1	613.0	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	812.0	809.7	809.7	808.2	803.6	795.1	794.4	795.9	791.3	786.7	779.8
5°	851.8	837.3	832.7	828.1	818.9	803.6	797.4	792.1	783.7	773.7	763.0
7.5°	885.5	864.9	858.7	850.3	831.9	810.5	796.7	785.2	773.7	759.9	746.9
10°	927.7	897.8	883.2	871.0	845.7	815.8	795.1	778.3	759.9	743.1	726.2
12.5°	975.2	926.9	922.3	892.4	863.3	818.9	793.6	769.1	744.6	723.9	706.3
15°	1015.0	962.1	943.0	923.1	867.2	812.0	787.5	759.9	731.6	709.3	683.3
17.5°	1040.3	996.6	956.0	929.2	871.0	822.0	774.5	743.1	713.2	682.5	661.1
20°	1070.9	1007.3	972.1	936.1	878.6	814.3	766.8	727.7	691.0	663.4	637.3
22.5°	1101.6	1015.8	986.7	947.6	880.2	806.6	753.0	713.9	671.8	644.2	615.9
25°	1098.5	1028.0	979.8	946.8	864.9	799.7	736.9	691.0	651.9	616.7	588.3
27.5°	1100.8	1014.2	965.2	926.9	854.1	789.8	720.1	671.8	631.2	594.4	564.6
30°	1101.6	993.5	950.6	904.7	834.2	766.0	700.9	651.9	609.0	569.2	542.4
32.5°	1099.3	976.7	923.1	881.7	802.8	743.1	678.7	626.6	583.0	546.2	520.9
35°	1093.9	956.8	894.7	842.6	770.6	710.1	658.0	604.4	557.7	524.0	494.9
37.5°	1079.3	935.3	864.9	813.5	733.1	671.8	625.9	581.4	536.2	496.4	471.9
40°	1068.6	906.2	835.0	779.1	692.5	632.7	594.4	552.3	507.9	471.9	448.1
42.5°	1044.1	878.6	804.3	737.7	652.7	591.4	555.4	521.7	483.4	448.1	426.7
45°	1004.3	848.8	766.8	699.4	609.0	550.8	517.8	490.3	456.6	422.9	401.4
47.5°	948.4	805.9	727.0	659.6	566.1	507.1	474.2	453.5	426.7	398.3	380.0
50°	887.8	759.1	686.4	619.7	524.7	467.3	435.1	416.0	398.3	372.3	354.7
52.5°	808.9	709.3	639.6	576.1	480.3	425.1	396.8	383.0	364.6	346.2	330.9
55°	732.3	645.0	587.5	527.0	436.6	385.3	357.7	343.2	332.5	317.1	304.9
57.5°	643.5	585.3	532.4	477.2	396.0	349.3	323.3	305.6	298.8	291.9	280.4
60°	561.5	517.1	474.2	428.2	353.9	311.8	286.5	272.7	265.8	261.2	253.6
62.5°	486.4	452.0	415.2	378.4	311.0	272.7	253.6	239.8	233.6	232.9	226.0
65°	414.4	389.9	360.0	324.0	271.2	237.5	219.1	210.7	203.8	203.8	198.4
67.5°	342.4	325.6	301.8	276.5	235.2	203.8	186.9	179.3	175.4	175.4	171.6
70°	285.0	273.5	252.0	229.8	193.8	170.1	157.0	150.1	147.8	148.6	145.5
72.5°	231.3	219.1	201.5	185.4	158.6	141.0	131.8	124.1	120.3	121.0	120.3
75°	179.3	173.1	157.8	145.5	124.1	111.8	103.4	99.6	96.5	97.3	95.8
77.5°	134.8	125.6	117.2	108.8	95.8	85.8	78.9	75.1	72.8	72.8	72.8
80°	91.9	90.4	83.5	78.9	68.2	60.5	55.2	54.4	52.1	52.1	52.1
82.5°	59.8	55.9	52.1	49.0	42.9	38.3	36.0	34.5	33.7	32.9	34.5
85°	32.9	30.6	29.1	26.0	23.7	21.4	19.2	18.4	17.6	18.4	17.6
87.5°	13.0	10.7	10.7	10.0	9.2	8.4	8.4	6.9	6.9	6.1	6.1
90°	7.0	5.7	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	9.2	8.3	7.8	8.1	8.7	9.3	9.9	10.5	9.9	9.3	8.7
95°	10.8	9.7	9.1	11.2	15.3	19.5	23.6	27.8	23.6	19.5	15.3
97.5°	30.1	35.3	37.9	39.3	42.1	45.0	47.8	50.6	47.8	45.0	42.1
100°	62.5	78.3	86.2	85.2	83.2	81.1	79.1	77.1	79.1	81.1	83.2
102.5°	86.7	104.3	113.1	112.4	111.1	109.8	108.5	107.2	108.5	109.8	111.1
105°	127.3	136.4	141.0	140.4	139.3	138.2	137.0	135.9	137.0	138.2	139.3
107.5°	172.9	171.4	170.6	170.1	169.2	168.3	167.4	166.5	167.4	168.3	169.2
110°	202.4	201.3	200.7	200.3	199.5	198.7	197.9	197.1	197.9	198.7	199.5

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	231.1	230.0	229.4	229.1	228.4	227.7	227.0	226.3	227.0	227.7	228.4
115°	259.1	258.2	257.7	257.4	256.8	256.2	255.6	255.0	255.6	256.2	256.8
117.5°	287.2	286.7	286.5	286.1	285.4	284.7	284.0	283.3	284.0	284.7	285.4
120°	313.8	313.5	313.4	312.9	312.0	311.1	310.2	309.3	310.2	311.1	312.0
122.5°	339.5	339.1	338.9	338.5	337.8	337.1	336.4	335.7	336.4	337.1	337.8
125°	363.7	363.3	363.1	362.7	361.9	361.0	360.2	359.4	360.2	361.0	361.9
127.5°	387.6	387.1	386.8	386.4	385.6	384.8	384.0	383.2	384.0	384.8	385.6
130°	409.3	408.9	408.7	408.3	407.5	406.7	405.9	405.1	405.9	406.7	407.5
132.5°	430.2	429.9	429.7	429.3	428.5	427.6	426.8	426.0	426.8	427.6	428.5
135°	450.8	450.4	450.2	449.9	449.3	448.7	448.1	447.5	448.1	448.7	449.3
137.5°	469.7	469.5	469.4	469.0	468.2	467.3	466.5	465.7	466.5	467.3	468.2
140°	487.2	486.9	486.7	486.4	485.8	485.2	484.6	484.0	484.6	485.2	485.8
142.5°	504.1	503.8	503.6	503.3	502.7	502.1	501.5	500.9	501.5	502.1	502.7
145°	519.9	519.7	519.6	519.2	518.5	517.8	517.1	516.4	517.1	517.8	518.5
147.5°	534.0	533.8	533.7	533.4	532.9	532.4	531.9	531.4	531.9	532.4	532.9
150°	546.8	546.6	546.5	546.3	546.0	545.7	545.4	545.1	545.4	545.7	546.0
152.5°	558.0	557.9	557.9	557.8	557.7	557.6	557.5	557.4	557.5	557.6	557.7
155°	568.1	568.0	567.9	568.0	568.2	568.4	568.6	568.8	568.6	568.4	568.2
157.5°	577.8	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
160°	585.5	585.6	585.7	585.8	585.9	586.0	586.1	586.2	586.1	586.0	585.9
162.5°	592.4	592.5	592.5	592.7	593.0	593.3	593.6	593.9	593.6	593.3	593.0
165°	598.3	598.4	598.5	598.6	598.9	599.2	599.5	599.8	599.5	599.2	598.9
167.5°	603.0	603.0	603.0	603.2	603.6	604.1	604.5	604.9	604.5	604.1	603.6
170°	607.1	607.1	607.1	607.3	607.7	608.2	608.6	609.0	608.6	608.2	607.7
172.5°	609.6	609.5	609.4	609.7	610.2	610.7	611.2	611.7	611.2	610.7	610.2
175°	611.9	611.8	611.7	612.0	612.5	613.0	613.5	614.0	613.5	613.0	612.5
177.5°	612.8	612.7	612.6	612.9	613.4	613.9	614.4	614.9	614.4	613.9	613.4
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	778.3	777.5	779.1	774.5	766.8	763.0	752.2	749.9	749.2	749.9	750.7
5°	756.8	756.1	753.8	746.1	736.9	730.0	717.0	716.2	711.6	707.0	709.3
7.5°	736.2	733.1	728.5	718.5	706.3	698.6	687.9	680.2	674.1	670.3	667.2
10°	715.5	710.9	706.3	693.3	677.9	666.5	653.4	647.3	640.4	637.3	634.3
12.5°	688.7	684.1	675.6	660.3	651.1	636.6	623.6	617.4	613.6	607.5	603.6
15°	667.2	658.0	653.4	637.3	618.2	616.7	592.9	591.4	583.7	583.7	577.6
17.5°	642.7	635.8	627.4	611.3	597.5	583.7	571.5	566.9	560.0	558.4	555.4
20°	619.0	609.8	606.7	590.6	576.1	559.2	546.2	541.6	538.5	535.5	537.8
22.5°	594.4	586.8	579.1	564.6	553.8	537.0	529.3	524.7	520.1	518.6	519.4
25°	570.7	563.8	556.1	541.6	530.1	516.3	509.4	507.1	504.8	504.8	504.1
27.5°	547.7	540.8	533.9	520.9	509.4	499.5	494.1	491.8	489.5	491.0	492.6
30°	524.0	517.8	511.7	500.2	491.0	481.8	478.8	477.2	476.5	480.3	480.3
32.5°	502.5	497.2	492.6	481.8	472.6	465.0	462.7	463.5	464.2	466.5	468.0
35°	480.3	476.5	471.9	462.7	455.0	448.1	448.9	448.9	450.4	454.3	457.3
37.5°	460.4	455.0	451.2	443.5	437.4	431.3	433.6	435.9	437.4	442.0	443.5
40°	436.6	434.3	431.3	423.6	418.3	417.5	418.3	419.8	422.9	425.1	427.4
42.5°	417.5	414.4	410.6	404.5	399.9	400.6	401.4	402.9	404.5	408.3	410.6
45°	396.0	393.7	390.7	385.3	381.5	382.3	383.0	383.0	384.5	389.1	390.7
47.5°	372.3	373.1	369.2	363.9	361.6	361.6	361.6	363.1	366.9	368.5	369.2
50°	349.3	347.8	347.0	341.7	340.1	339.4	340.1	340.9	346.2	345.5	347.8
52.5°	324.8	324.8	324.0	321.0	318.7	318.7	317.1	321.0	322.5	324.0	326.3
55°	301.1	298.8	298.0	296.5	293.4	292.6	294.2	298.8	300.3	301.8	304.1
57.5°	275.0	275.0	273.5	271.2	271.2	271.2	271.2	274.2	276.5	278.1	282.7
60°	251.3	248.2	245.9	245.9	245.9	245.1	249.7	249.7	254.3	255.1	256.6
62.5°	222.9	221.4	219.9	220.6	219.9	221.4	222.9	226.0	226.7	229.0	231.3
65°	196.1	196.1	194.6	199.2	196.1	196.1	199.9	199.9	201.5	203.8	206.8
67.5°	170.1	170.8	169.3	169.3	170.8	171.6	172.4	175.4	176.2	179.3	183.1
70°	143.2	144.8	145.5	144.0	145.5	147.1	148.6	149.4	152.4	154.0	156.3
72.5°	119.5	121.0	118.7	119.5	120.3	121.8	122.6	124.1	125.6	130.2	131.8
75°	95.8	95.0	94.2	97.3	95.8	98.8	99.6	99.6	101.1	104.9	106.5
77.5°	73.5	73.5	74.3	72.8	75.1	74.3	75.1	77.4	79.7	79.7	85.8
80°	51.3	52.9	52.9	52.9	53.6	54.4	52.9	56.7	57.5	57.5	59.8
82.5°	32.9	33.7	32.9	34.5	34.5	36.0	35.2	36.0	37.5	39.1	39.8
85°	17.6	17.6	19.2	19.2	18.4	19.2	18.4	19.2	20.7	20.7	21.4
87.5°	6.1	6.1	6.1	6.1	6.9	6.1	6.9	6.9	6.1	6.1	8.4
90°	4.5	5.0	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.2	12.6
92.5°	8.1	7.8	8.3	9.2	10.1	11.0	11.9	12.6	13.3	14.0	14.7
95°	11.2	9.1	9.7	10.8	11.9	13.0	14.1	14.8	15.5	16.2	16.9
97.5°	39.3	37.9	35.3	30.1	25.0	19.8	14.6	15.4	16.2	17.0	17.8
100°	85.2	86.2	78.3	62.5	46.7	30.9	15.1	15.9	16.7	17.5	18.3
102.5°	112.4	113.1	104.3	86.7	69.0	51.4	33.8	30.4	27.1	23.7	20.4
105°	140.4	141.0	136.4	127.3	118.2	109.0	99.9	82.0	64.0	46.1	28.2
107.5°	170.1	170.6	171.4	172.9	174.4	175.9	177.4	161.8	146.2	130.6	115.0
110°	200.3	200.7	201.3	202.4	203.5	204.6	205.7	202.4	199.0	195.7	192.4

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	229.1	229.4	230.0	231.1	232.2	233.4	234.5	235.4	236.3	237.2	238.1
115°	257.4	257.7	258.2	259.1	260.0	260.9	261.8	262.8	263.8	264.9	265.9
117.5°	286.1	286.5	286.7	287.2	287.7	288.2	288.7	289.5	290.3	291.2	292.0
120°	312.9	313.4	313.5	313.8	314.1	314.4	314.7	315.5	316.3	317.2	318.0
122.5°	338.5	338.9	339.1	339.5	339.9	340.3	340.7	341.2	341.7	342.2	342.7
125°	362.7	363.1	363.3	363.7	364.1	364.5	364.9	365.1	365.3	365.5	365.7
127.5°	386.4	386.8	387.1	387.6	388.1	388.6	389.1	389.4	389.7	390.0	390.3
130°	408.3	408.7	408.9	409.3	409.7	410.1	410.5	410.9	411.3	411.8	412.2
132.5°	429.3	429.7	429.9	430.2	430.5	430.8	431.1	431.5	431.9	432.3	432.7
135°	449.9	450.2	450.4	450.8	451.2	451.6	452.0	452.3	452.6	452.9	453.2
137.5°	469.0	469.4	469.5	469.7	469.9	470.1	470.3	470.8	471.3	471.8	472.3
140°	486.4	486.7	486.9	487.2	487.5	487.8	488.1	488.5	488.9	489.3	489.7
142.5°	503.3	503.6	503.8	504.1	504.4	504.7	505.0	505.3	505.6	505.9	506.2
145°	519.2	519.6	519.7	519.9	520.1	520.3	520.5	520.7	520.9	521.1	521.3
147.5°	533.4	533.7	533.8	534.0	534.2	534.4	534.6	534.8	535.0	535.2	535.4
150°	546.3	546.5	546.6	546.8	547.0	547.2	547.4	547.6	547.8	548.0	548.2
152.5°	557.8	557.9	557.9	558.0	558.1	558.2	558.3	558.7	559.1	559.6	560.0
155°	568.0	567.9	568.0	568.1	568.2	568.3	568.4	568.9	569.4	569.9	570.4
157.5°	577.9	577.9	577.9	577.8	577.7	577.6	577.5	578.1	578.7	579.3	579.9
160°	585.8	585.7	585.6	585.5	585.4	585.3	585.2	585.8	586.4	587.1	587.7
162.5°	592.7	592.5	592.5	592.4	592.3	592.2	592.1	592.8	593.5	594.2	594.9
165°	598.6	598.5	598.4	598.3	598.2	598.1	598.0	598.8	599.6	600.5	601.3
167.5°	603.2	603.0	603.0	603.0	603.0	603.0	603.0	603.8	604.6	605.5	606.3
170°	607.3	607.1	607.1	607.1	607.1	607.1	607.1	607.9	608.7	609.6	610.4
172.5°	609.7	609.4	609.5	609.6	609.7	609.8	609.9	610.7	611.5	612.3	613.1
175°	612.0	611.7	611.8	611.9	612.0	612.1	612.2	612.9	613.6	614.3	615.0
177.5°	612.9	612.6	612.7	612.8	612.9	613.0	613.1	613.9	614.7	615.5	616.3
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	749.9	750.7	747.6	745.4	751.5	747.6	747.6	748.4	746.9	749.2	748.4
5°	707.8	708.6	703.2	704.8	701.7	700.9	700.2	704.8	704.0	703.2	704.8
7.5°	666.5	666.5	664.2	662.6	662.6	660.3	663.4	662.6	664.2	664.2	666.5
10°	632.0	633.5	629.7	625.9	625.1	625.9	625.9	626.6	627.4	632.7	632.0
12.5°	603.6	601.3	600.6	598.3	594.4	592.9	591.4	599.8	597.5	597.5	597.5
15°	572.2	577.6	576.8	569.9	568.4	571.5	569.9	569.9	577.6	576.8	576.1
17.5°	555.4	553.8	552.3	548.5	549.2	548.5	549.2	549.2	553.8	553.8	553.8
20°	536.2	533.2	533.2	531.6	531.6	529.3	532.4	533.2	536.2	536.2	537.0
22.5°	519.4	517.1	517.1	516.3	517.8	514.8	517.8	518.6	518.6	520.9	520.9
25°	504.8	503.3	503.3	504.8	504.8	504.8	504.8	507.9	505.6	506.3	505.6
27.5°	491.8	492.6	493.3	494.1	493.3	494.1	494.9	496.4	497.2	496.4	494.9
30°	479.5	481.8	482.6	482.6	484.1	484.9	485.7	485.7	486.4	484.1	485.7
32.5°	470.3	470.3	471.9	472.6	474.2	474.9	474.9	476.5	475.7	473.4	474.2
35°	457.3	457.3	460.4	461.9	464.2	463.5	464.2	464.2	465.0	463.5	461.2
37.5°	444.3	445.8	445.8	448.9	449.7	450.4	449.7	451.2	450.4	448.9	448.1
40°	429.0	428.2	429.0	431.3	432.0	432.0	432.0	433.6	433.6	433.6	432.8
42.5°	409.8	412.1	411.4	413.7	412.9	412.9	414.4	416.0	416.7	414.4	415.2
45°	391.4	391.4	393.0	393.0	393.7	393.7	396.8	395.3	396.8	395.3	396.0
47.5°	371.5	372.3	372.3	373.1	374.6	376.1	374.6	375.4	375.4	376.1	374.6
50°	349.3	349.3	350.8	353.1	356.2	354.7	353.9	357.0	354.7	354.7	353.1
52.5°	326.3	328.6	329.4	331.7	334.0	334.8	335.5	334.0	334.8	332.5	333.2
55°	304.1	304.9	307.9	310.2	312.5	312.5	311.8	312.5	313.3	310.2	310.2
57.5°	281.9	284.2	287.3	287.3	290.3	290.3	289.6	289.6	290.3	288.0	287.3
60°	258.2	260.5	264.3	264.3	268.9	269.6	268.1	266.6	266.6	264.3	265.0
62.5°	232.9	235.2	237.5	241.3	244.4	242.8	245.9	242.8	243.6	239.0	239.0
65°	210.7	211.4	215.3	219.1	219.1	220.6	219.1	219.9	217.6	217.6	214.5
67.5°	184.6	184.6	188.4	192.3	196.1	196.1	196.1	193.8	193.8	191.5	191.5
70°	161.6	160.9	164.7	167.0	169.3	170.1	168.5	167.8	166.2	163.9	163.2
72.5°	133.3	134.8	138.7	140.2	144.0	143.2	147.1	142.5	142.5	138.7	137.9
75°	108.0	109.5	113.4	115.7	118.0	118.0	120.3	118.0	114.9	113.4	112.6
77.5°	85.8	85.0	88.1	91.9	92.7	91.9	93.5	92.7	89.6	89.6	88.1
80°	61.3	63.6	66.6	65.9	68.9	68.2	68.2	66.6	66.6	64.3	65.9
82.5°	40.6	42.9	43.7	42.9	43.7	45.2	46.0	45.2	45.2	43.7	44.4
85°	21.4	21.4	23.0	23.7	23.0	23.0	23.7	26.0	24.5	23.0	24.5
87.5°	6.9	6.1	6.1	6.9	6.1	6.1	6.9	6.9	7.7	7.7	7.7
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°	15.1	15.1	15.2	15.3	15.4	15.5	15.4	15.3	15.2	15.1	15.1
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	18.2	18.3	18.4	18.5	18.6	18.7	18.6	18.5	18.4	18.3	18.2
100°	18.7	18.8	18.9	19.0	19.1	19.2	19.1	19.0	18.9	18.8	18.7
102.5°	18.7	18.8	19.0	19.2	19.4	19.6	19.4	19.2	19.0	18.8	18.7
105°	19.2	19.3	19.5	19.7	19.9	20.1	19.9	19.7	19.5	19.3	19.2
107.5°	107.2	100.6	87.3	74.0	60.7	47.4	60.7	74.0	87.3	100.6	107.2
110°	190.7	183.4	168.9	154.4	139.9	125.4	139.9	154.4	168.9	183.4	190.7

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	238.6	238.5	238.3	238.1	237.9	237.7	237.9	238.1	238.3	238.5	238.6
115°	266.4	266.6	267.0	267.4	267.8	268.2	267.8	267.4	267.0	266.6	266.4
117.5°	292.4	292.4	292.5	292.6	292.7	292.8	292.7	292.6	292.5	292.4	292.4
120°	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	343.0	343.1	343.2	343.3	343.4	343.5	343.4	343.3	343.2	343.1	343.0
125°	365.8	365.9	366.1	366.3	366.5	366.7	366.5	366.3	366.1	365.9	365.8
127.5°	390.5	390.4	390.2	390.0	389.8	389.6	389.8	390.0	390.2	390.4	390.5
130°	412.4	412.3	412.1	411.8	411.6	411.4	411.6	411.8	412.1	412.3	412.4
132.5°	432.9	432.7	432.4	432.1	431.8	431.5	431.8	432.1	432.4	432.7	432.9
135°	453.4	453.2	452.9	452.6	452.3	452.0	452.3	452.6	452.9	453.2	453.4
137.5°	472.6	472.5	472.3	472.1	471.9	471.7	471.9	472.1	472.3	472.5	472.6
140°	489.9	489.8	489.6	489.4	489.2	489.0	489.2	489.4	489.6	489.8	489.9
142.5°	506.3	506.2	505.9	505.6	505.3	505.0	505.3	505.6	505.9	506.2	506.3
145°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	535.5	535.2	534.7	534.2	533.7	533.2	533.7	534.2	534.7	535.2	535.5
150°	548.3	548.1	547.8	547.5	547.2	546.9	547.2	547.5	547.8	548.1	548.3
152.5°	560.2	559.9	559.4	558.9	558.4	557.9	558.4	558.9	559.4	559.9	560.2
155°	570.6	570.3	569.7	569.1	568.5	567.9	568.5	569.1	569.7	570.3	570.6
157.5°	580.2	579.8	579.0	578.2	577.4	576.6	577.4	578.2	579.0	579.8	580.2
160°	588.0	587.6	586.9	586.2	585.5	584.8	585.5	586.2	586.9	587.6	588.0
162.5°	595.3	595.0	594.4	593.7	593.1	592.5	593.1	593.7	594.4	595.0	595.3
165°	601.7	601.3	600.6	599.9	599.2	598.5	599.2	599.9	600.6	601.3	601.7
167.5°	606.7	606.3	605.5	604.6	603.8	603.0	603.8	604.6	605.5	606.3	606.7
170°	610.8	610.4	609.6	608.7	607.9	607.1	607.9	608.7	609.6	610.4	610.8
172.5°	613.5	613.0	612.1	611.2	610.3	609.4	610.3	611.2	612.1	613.0	613.5
175°	615.3	614.9	614.1	613.3	612.5	611.7	612.5	613.3	614.1	614.9	615.3
177.5°	616.7	616.2	615.2	614.2	613.2	612.2	613.2	614.2	615.2	616.2	616.7
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	750.7	752.2	753.0	749.9	747.6	751.5	756.8	760.7	763.7	767.6	769.9
5°	706.3	711.6	711.6	713.2	715.5	719.3	729.3	736.2	742.3	746.9	750.7
7.5°	668.7	672.6	674.9	678.7	682.5	687.9	699.4	709.3	718.5	723.9	730.0
10°	635.0	638.1	641.9	644.2	651.1	658.8	673.3	681.8	692.5	700.9	708.6
12.5°	602.9	613.6	615.9	615.1	621.3	629.7	644.2	657.3	668.7	677.2	685.6
15°	579.9	583.7	588.3	587.5	600.6	602.9	615.1	630.4	645.8	651.1	658.8
17.5°	554.6	560.7	565.3	567.6	571.5	579.9	591.4	602.9	622.8	623.6	643.5
20°	534.7	540.8	543.9	546.9	549.2	559.2	569.2	582.2	598.3	606.7	617.4
22.5°	521.7	524.7	527.0	529.3	532.4	537.8	550.0	564.6	575.3	584.5	591.4
25°	506.3	509.4	512.5	514.0	516.3	519.4	528.6	540.1	555.4	561.5	568.4
27.5°	495.6	495.6	497.2	497.2	500.2	503.3	510.2	520.9	533.2	540.8	550.0
30°	484.1	483.4	484.1	483.4	482.6	487.2	493.3	502.5	510.9	520.1	526.3
32.5°	472.6	471.9	471.9	472.6	469.6	471.9	474.9	483.4	492.6	497.2	504.1
35°	460.4	458.9	458.9	458.9	457.3	455.8	458.9	466.5	472.6	478.8	484.1
37.5°	448.1	445.8	445.8	444.3	442.8	440.5	440.5	446.6	455.0	457.3	464.2
40°	431.3	431.3	429.7	429.0	427.4	425.9	423.6	429.0	436.6	438.9	444.3
42.5°	414.4	412.1	411.4	411.4	411.4	409.1	407.5	411.4	416.0	419.8	422.9
45°	395.3	393.7	394.5	393.7	392.2	391.4	390.7	392.2	397.6	399.1	402.9
47.5°	374.6	373.8	373.8	373.1	372.3	373.1	370.0	373.8	375.4	376.9	380.0
50°	353.1	352.4	351.6	350.8	350.8	351.6	350.8	350.8	353.9	355.4	358.5
52.5°	331.7	329.4	329.4	328.6	328.6	327.1	328.6	329.4	330.9	332.5	334.0
55°	308.7	308.7	306.4	306.4	304.9	304.9	305.6	304.9	307.9	309.5	309.5
57.5°	286.5	283.4	284.2	282.7	281.1	280.4	280.4	281.9	283.4	283.4	285.0
60°	262.7	259.7	258.9	255.9	257.4	255.1	255.9	255.9	258.9	257.4	258.9
62.5°	239.0	235.2	232.9	231.3	231.3	232.1	230.6	229.8	231.3	232.9	235.9
65°	213.7	211.4	209.1	206.8	206.8	206.1	207.6	205.3	204.5	205.3	206.8
67.5°	187.7	185.4	183.1	180.8	181.6	179.3	177.7	180.0	178.5	179.3	180.8
70°	162.4	160.9	156.3	154.7	154.0	154.7	154.0	152.4	154.7	154.0	154.7
72.5°	137.1	135.6	133.3	129.5	129.5	128.7	127.9	127.9	127.2	127.2	127.2
75°	112.6	109.5	107.2	106.5	104.9	104.2	103.4	101.9	102.6	103.4	101.9
77.5°	87.3	83.5	82.7	82.7	80.4	80.4	81.2	80.4	79.7	79.7	79.7
80°	64.3	61.3	61.3	59.8	58.2	58.2	58.2	58.2	57.5	56.7	57.5
82.5°	41.4	40.6	39.8	39.8	41.4	38.3	39.8	39.1	38.3	38.3	37.5
85°	23.0	23.7	23.0	23.7	22.2	23.0	23.0	23.0	22.2	23.0	21.4
87.5°	8.4	8.4	8.4	9.2	9.2	9.2	9.2	9.2	10.0	9.2	9.2
90°	12.6	12.2	11.7	11.3	10.9	9.6	8.3	7.0	5.7	5.0	4.5
92.5°	14.7	14.0	13.3	12.6	11.9	11.0	10.1	9.2	8.3	7.8	8.1
95°	16.9	16.2	15.5	14.8	14.1	13.0	11.9	10.8	9.7	9.1	11.2
97.5°	17.8	17.0	16.2	15.4	14.6	19.8	25.0	30.1	35.3	37.9	39.3
100°	18.3	17.5	16.7	15.9	15.1	30.9	46.7	62.5	78.3	86.2	85.2
102.5°	20.4	23.7	27.1	30.4	33.8	51.4	69.0	86.7	104.3	113.1	112.4
105°	28.2	46.1	64.0	82.0	99.9	109.0	118.2	127.3	136.4	141.0	140.4
107.5°	115.0	130.6	146.2	161.8	177.4	175.9	174.4	172.9	171.4	170.6	170.1
110°	192.4	195.7	199.0	202.4	205.7	204.6	203.5	202.4	201.3	200.7	200.3

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	238.1	237.2	236.3	235.4	234.5	233.4	232.2	231.1	230.0	229.4	229.1
115°	265.9	264.9	263.8	262.8	261.8	260.9	260.0	259.1	258.2	257.7	257.4
117.5°	292.0	291.2	290.3	289.5	288.7	288.2	287.7	287.2	286.7	286.5	286.1
120°	318.0	317.2	316.3	315.5	314.7	314.4	314.1	313.8	313.5	313.4	312.9
122.5°	342.7	342.2	341.7	341.2	340.7	340.3	339.9	339.5	339.1	338.9	338.5
125°	365.7	365.5	365.3	365.1	364.9	364.5	364.1	363.7	363.3	363.1	362.7
127.5°	390.3	390.0	389.7	389.4	389.1	388.6	388.1	387.6	387.1	386.8	386.4
130°	412.2	411.8	411.3	410.9	410.5	410.1	409.7	409.3	408.9	408.7	408.3
132.5°	432.7	432.3	431.9	431.5	431.1	430.8	430.5	430.2	429.9	429.7	429.3
135°	453.2	452.9	452.6	452.3	452.0	451.6	451.2	450.8	450.4	450.2	449.9
137.5°	472.3	471.8	471.3	470.8	470.3	470.1	469.9	469.7	469.5	469.4	469.0
140°	489.7	489.3	488.9	488.5	488.1	487.8	487.5	487.2	486.9	486.7	486.4
142.5°	506.2	505.9	505.6	505.3	505.0	504.7	504.4	504.1	503.8	503.6	503.3
145°	521.3	521.1	520.9	520.7	520.5	520.3	520.1	519.9	519.7	519.6	519.2
147.5°	535.4	535.2	535.0	534.8	534.6	534.4	534.2	534.0	533.8	533.7	533.4
150°	548.2	548.0	547.8	547.6	547.4	547.2	547.0	546.8	546.6	546.5	546.3
152.5°	560.0	559.6	559.1	558.7	558.3	558.2	558.1	558.0	557.9	557.9	557.8
155°	570.4	569.9	569.4	568.9	568.4	568.3	568.2	568.1	568.0	567.9	568.0
157.5°	579.9	579.3	578.7	578.1	577.5	577.6	577.7	577.8	577.9	577.9	577.9
160°	587.7	587.1	586.4	585.8	585.2	585.3	585.4	585.5	585.6	585.7	585.8
162.5°	594.9	594.2	593.5	592.8	592.1	592.2	592.3	592.4	592.5	592.5	592.7
165°	601.3	600.5	599.6	598.8	598.0	598.1	598.2	598.3	598.4	598.5	598.6
167.5°	606.3	605.5	604.6	603.8	603.0	603.0	603.0	603.0	603.0	603.0	603.2
170°	610.4	609.6	608.7	607.9	607.1	607.1	607.1	607.1	607.1	607.1	607.3
172.5°	613.1	612.3	611.5	610.7	609.9	609.8	609.7	609.6	609.5	609.4	609.7
175°	615.0	614.3	613.6	612.9	612.2	612.1	612.0	611.9	611.8	611.7	612.0
177.5°	616.3	615.5	614.7	613.9	613.1	613.0	612.9	612.8	612.7	612.6	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5
2.5°	773.7	776.0	783.7	792.8
5°	758.4	764.5	775.2	789.8
7.5°	741.5	750.7	766.0	784.4
10°	722.4	735.4	754.5	777.5
12.5°	701.7	718.5	743.1	766.8
15°	688.7	705.5	727.7	753.8
17.5°	663.4	683.3	706.3	743.1
20°	637.3	659.6	689.4	726.2
22.5°	617.4	641.2	669.5	708.6
25°	593.7	618.2	648.8	689.4
27.5°	568.4	592.9	627.4	670.3
30°	549.2	573.0	605.9	651.9
32.5°	526.3	549.2	583.7	632.0
35°	500.2	526.3	559.2	608.2
37.5°	480.3	504.1	538.5	585.3
40°	458.9	479.5	513.2	559.2
42.5°	435.9	458.9	488.0	533.9
45°	414.4	431.3	461.2	504.8
47.5°	391.4	410.6	433.6	467.3
50°	366.9	383.0	408.3	431.3
52.5°	343.2	356.2	377.7	395.3
55°	317.9	330.9	347.0	357.7
57.5°	294.2	303.3	314.1	321.0
60°	265.0	274.2	281.1	288.0
62.5°	239.0	245.9	249.7	253.6
65°	212.2	216.0	218.3	221.4
67.5°	183.1	186.9	187.7	192.3
70°	156.3	157.0	158.6	160.9
72.5°	131.0	132.5	131.8	133.3
75°	104.9	106.5	104.9	106.5
77.5°	79.7	81.2	81.2	83.5
80°	57.5	58.2	59.0	59.0
82.5°	37.5	39.8	38.3	39.1
85°	21.4	22.2	22.2	23.0
87.5°	10.0	10.7	10.0	11.5
90°	3.5	2.5	1.5	0.5
92.5°	8.7	9.3	9.9	10.5
95°	15.3	19.5	23.6	27.8
97.5°	42.1	45.0	47.8	50.6
100°	83.2	81.1	79.1	77.1
102.5°	111.1	109.8	108.5	107.2
105°	139.3	138.2	137.0	135.9
107.5°	169.2	168.3	167.4	166.5
110°	199.5	198.7	197.9	197.1



TEST NUMBER: P1030912

CATALOG NUMBER: S123DIW-B560D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	228.4	227.7	227.0	226.3
115°	256.8	256.2	255.6	255.0
117.5°	285.4	284.7	284.0	283.3
120°	312.0	311.1	310.2	309.3
122.5°	337.8	337.1	336.4	335.7
125°	361.9	361.0	360.2	359.4
127.5°	385.6	384.8	384.0	383.2
130°	407.5	406.7	405.9	405.1
132.5°	428.5	427.6	426.8	426.0
135°	449.3	448.7	448.1	447.5
137.5°	468.2	467.3	466.5	465.7
140°	485.8	485.2	484.6	484.0
142.5°	502.7	502.1	501.5	500.9
145°	518.5	517.8	517.1	516.4
147.5°	532.9	532.4	531.9	531.4
150°	546.0	545.7	545.4	545.1
152.5°	557.7	557.6	557.5	557.4
155°	568.2	568.4	568.6	568.8
157.5°	577.9	577.9	577.9	577.9
160°	585.9	586.0	586.1	586.2
162.5°	593.0	593.3	593.6	593.9
165°	598.9	599.2	599.5	599.8
167.5°	603.6	604.1	604.5	604.9
170°	607.7	608.2	608.6	609.0
172.5°	610.2	610.7	611.2	611.7
175°	612.5	613.0	613.5	614.0
177.5°	613.4	613.9	614.4	614.9
180°	614.0	614.0	614.0	614.0

(END OF REPORT)