

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: P1010728

Luminaire Tested: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010728
REPORT IS A COMBINATION OF REPORTS P990352 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

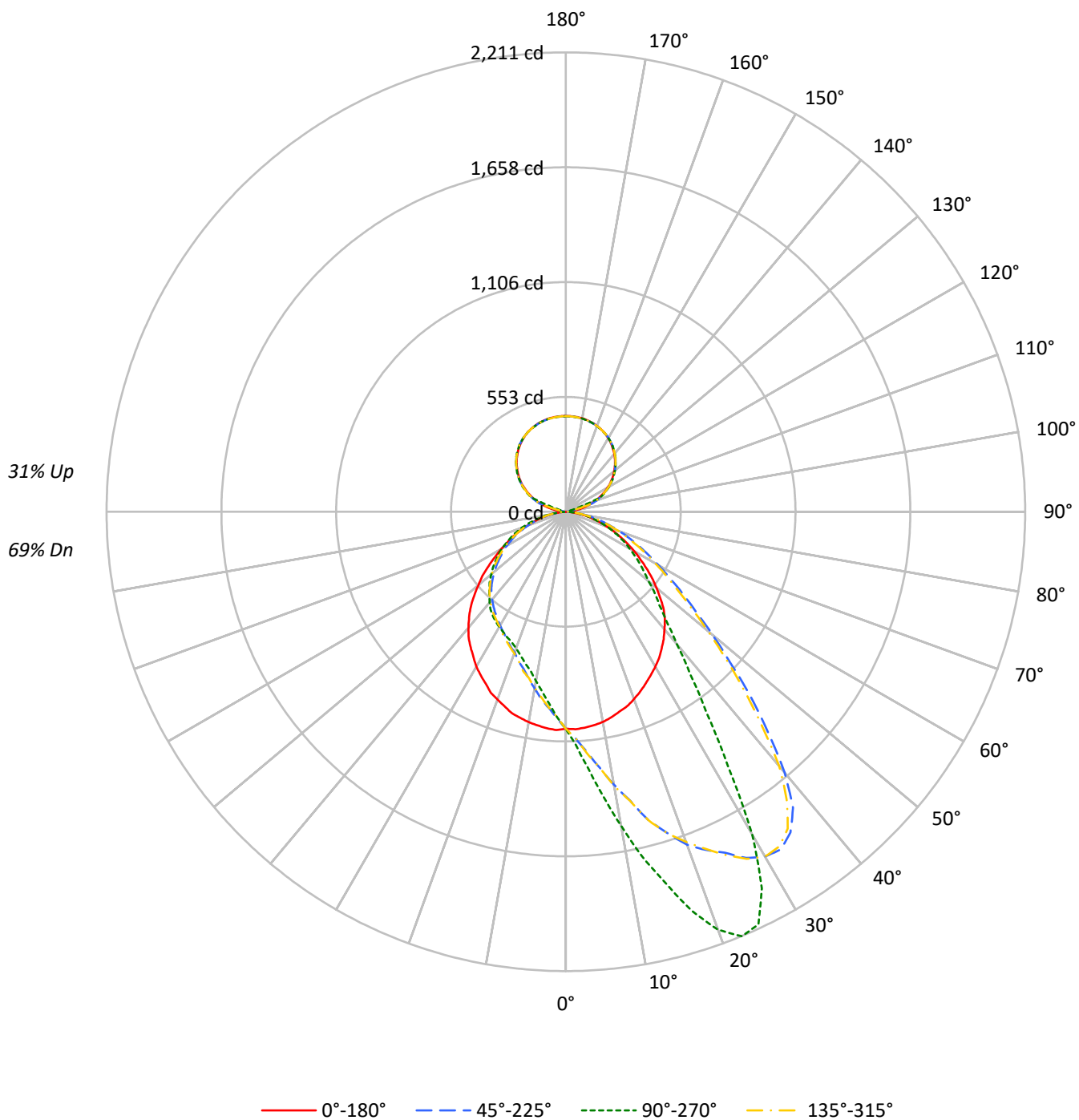
Lumens per Lamp: N/A
Luminaire Lumens: 4556.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	112	112	112	112	106	106	106	106	94	94	94	83	83	83	74	74	74			69
1	102	98	94	91	97	93	90	87	83	81	78	74	72	70	66	64	63			59
2	94	86	80	75	88	82	76	72	73	69	65	66	62	59	58	56	54			50
3	86	76	69	63	81	72	66	60	65	60	55	58	54	51	52	49	46			43
4	79	68	60	53	74	64	57	51	58	52	48	52	47	44	47	43	40			37
5	72	60	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35			32
6	67	54	46	40	63	52	44	39	47	41	36	43	37	34	38	34	31			28
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28			25
8	57	45	37	32	54	43	36	31	39	33	29	36	30	27	32	28	25			23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22			20
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	28	23	20			18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11241	11241	11241	11241
5°	11248	12953	11282	9666
10°	11177	15673	11189	8442
15°	11023	18588	11113	7598
20°	10889	21401	10913	6992
25°	10693	21940	10716	6675
30°	10552	18127	10552	6468
35°	10377	12123	10311	6284
40°	10166	8751	10041	6004
45°	9904	6932	9619	5655
50°	9264	5887	8936	5313
55°	8563	5173	8215	4931
60°	7851	4504	7435	4530
65°	7071	3856	6728	3995
70°	6258	3201	5840	3369
75°	5352	2414	5006	2599
80°	4229	1612	3898	1709
85°	2920	740	2334	674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 18129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	2.3
10°-20°	329.9	7.2
20°-30°	555.1	12.2
30°-40°	627.3	13.8
40°-50°	561.8	12.3
50°-60°	453.5	10.0
60°-70°	316.0	6.9
70°-80°	165.9	3.6
80°-90°	40.7	0.9
90°-100°	16.2	0.4
100°-110°	78.5	1.7
110°-120°	192.3	4.2
120°-130°	244.1	5.4
130°-140°	260.8	5.7
140°-150°	243.8	5.4
150°-160°	196.7	4.3
160°-170°	126.9	2.8
170°-180°	43.7	1.0
0°-30°	987.7	21.7
0°-40°	1615.0	35.4
0°-60°	2630.3	57.7
0°-90°	3152.9	69.2
90°-120°	287.0	6.3
90°-150°	1035.7	22.7
90°-180°	1403.0	30.8
0°-180°	4556.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1044	1044	1044	1044	1044	
5°	1043	1241	1046	926	1043	99
15°	996	1847	1004	755	996	281
25°	911	2192	913	667	911	420
35°	804	1181	798	612	804	503
45°	667	638	648	520	667	510
55°	473	433	453	413	473	423
65°	292	281	278	291	292	291
75°	141	145	132	156	141	151
85°	30	33	24	30	30	35
90°	0	10	0	10	0	3
95°	21	13	21	13	21	25
105°	102	15	102	15	102	108
115°	191	201	191	201	191	189
125°	269	275	269	275	269	241
135°	335	339	335	339	335	258
145°	387	391	387	391	387	242
155°	426	426	426	426	426	196
165°	450	449	450	449	450	127
175°	460	458	460	458	460	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1047.4	1055.5	1059.5	1065.6	1071.7	1080.8	1083.8	1088.9	1086.8	1090.9	1092.9
5°	1043.3	1057.5	1069.6	1084.8	1099.0	1109.1	1119.2	1135.4	1147.6	1149.6	1158.7
7.5°	1036.2	1056.5	1077.7	1099.0	1126.3	1142.5	1160.7	1183.0	1201.2	1230.5	1241.7
10°	1027.1	1055.5	1085.8	1115.2	1152.6	1177.9	1200.2	1237.6	1275.1	1305.4	1333.8
12.5°	1013.0	1048.4	1087.9	1131.4	1179.9	1209.3	1239.7	1289.2	1345.9	1392.5	1422.8
15°	995.8	1040.3	1090.9	1137.4	1191.1	1245.7	1278.1	1333.8	1414.7	1458.2	1536.2
17.5°	981.6	1027.1	1077.7	1150.6	1223.5	1278.1	1301.4	1403.6	1459.2	1532.1	1620.2
20°	959.3	1017.0	1081.8	1154.6	1248.8	1282.2	1329.7	1432.9	1501.8	1596.9	1705.2
22.5°	936.1	997.8	1075.7	1151.6	1256.9	1292.3	1357.0	1439.0	1548.3	1642.4	1761.8
25°	910.8	977.6	1056.5	1146.6	1249.8	1301.4	1362.1	1463.3	1581.7	1700.1	1810.4
27.5°	885.5	958.3	1040.3	1130.4	1230.5	1291.3	1352.0	1457.2	1609.0	1737.5	1878.2
30°	861.2	934.0	1016.0	1108.1	1213.3	1272.0	1329.7	1461.3	1630.3	1775.0	1916.7
32.5°	834.9	909.8	995.8	1072.7	1178.9	1241.7	1306.4	1461.3	1643.4	1797.2	1926.8
35°	803.5	880.4	954.3	1031.2	1136.4	1206.3	1279.1	1451.2	1655.6	1804.3	1884.3
37.5°	773.1	840.9	904.7	979.6	1089.9	1164.8	1248.8	1439.0	1649.5	1774.0	1796.2
40°	738.7	806.5	858.1	928.0	1044.3	1131.4	1216.4	1422.8	1623.2	1702.1	1637.4
42.5°	705.3	759.0	803.5	871.3	997.8	1082.8	1174.9	1393.5	1571.6	1587.8	1442.0
45°	666.9	705.3	744.8	821.7	947.2	1034.2	1136.4	1351.0	1488.6	1442.0	1257.9
47.5°	617.3	651.7	695.2	766.1	893.6	983.6	1080.8	1296.3	1368.2	1271.0	1069.6
50°	569.7	599.1	639.6	708.4	836.9	924.9	1028.2	1210.3	1245.7	1092.9	921.9
52.5°	522.2	544.4	583.9	652.7	781.2	866.2	960.4	1122.3	1102.0	938.1	786.3
55°	472.6	491.8	529.3	597.1	716.5	797.4	887.5	1014.0	961.4	805.5	684.1
57.5°	424.0	444.3	482.7	539.4	651.7	730.6	802.5	901.7	822.7	698.3	591.0
60°	380.5	397.7	427.0	482.7	584.9	648.7	714.4	782.2	716.5	596.0	514.1
62.5°	335.0	351.2	378.5	429.1	517.1	573.8	626.4	682.1	609.2	521.2	448.3
65°	292.5	305.6	330.9	377.5	449.3	495.9	538.4	576.8	518.1	437.2	382.5
67.5°	254.0	265.1	286.4	327.9	388.6	422.0	456.4	488.8	439.2	374.4	327.9
70°	212.5	221.6	240.8	271.2	319.8	354.2	379.5	403.8	359.2	307.6	276.3
72.5°	176.1	185.2	197.3	228.7	262.1	283.3	310.7	323.8	298.5	256.0	224.7
75°	140.7	147.7	158.9	179.1	210.5	224.7	241.9	252.0	228.7	200.4	181.1
77.5°	110.3	113.3	121.4	135.6	156.9	173.0	186.2	192.3	176.1	157.9	141.7
80°	77.9	82.0	88.0	100.2	116.4	121.4	129.5	136.6	126.5	110.3	100.2
82.5°	51.6	56.7	59.7	64.8	74.9	81.0	83.0	89.1	79.9	73.9	69.8
85°	30.4	32.4	33.4	36.4	41.5	44.5	47.6	48.6	46.6	45.5	41.5
87.5°	15.2	15.2	15.2	17.2	18.2	20.2	21.3	21.3	21.3	20.2	19.2
90°	0.3	1.1	1.9	2.6	3.4	3.8	4.3	5.3	6.2	7.2	8.2
92.5°	7.9	7.4	7.0	6.5	6.0	5.8	6.1	6.8	7.5	8.2	8.9
95°	20.9	17.8	14.6	11.5	8.4	6.8	7.2	8.1	8.9	9.8	10.6
97.5°	38.0	35.9	33.7	31.6	29.5	28.4	26.5	22.6	18.7	14.8	10.9
100°	57.8	59.3	60.8	62.3	63.8	64.6	58.7	46.8	35.0	23.1	11.3
102.5°	80.4	81.4	82.4	83.3	84.3	84.8	78.2	65.0	51.7	38.5	25.3
105°	101.9	102.7	103.6	104.4	105.3	105.7	102.3	95.4	88.6	81.7	74.9
107.5°	124.8	125.5	126.2	126.9	127.6	127.9	128.5	129.6	130.7	131.9	133.0
110°	147.7	148.3	148.9	149.5	150.1	150.4	150.8	151.7	152.5	153.4	154.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	169.6	170.1	170.7	171.2	171.7	172.0	172.4	173.3	174.1	175.0	175.8
115°	191.1	191.6	192.0	192.5	193.0	193.2	193.5	194.2	194.9	195.6	196.3
117.5°	212.3	212.8	213.4	213.9	214.4	214.7	214.9	215.3	215.6	216.0	216.4
120°	231.8	232.5	233.2	233.9	234.6	234.9	235.0	235.2	235.5	235.7	235.9
122.5°	251.7	252.2	252.8	253.3	253.8	254.1	254.2	254.5	254.8	255.1	255.4
125°	269.4	270.0	270.6	271.3	271.9	272.2	272.3	272.6	272.9	273.2	273.5
127.5°	287.2	287.8	288.4	289.1	289.7	290.0	290.2	290.6	290.9	291.3	291.7
130°	303.6	304.2	304.8	305.5	306.1	306.4	306.5	306.8	307.1	307.4	307.7
132.5°	319.4	320.0	320.6	321.2	321.8	322.1	322.2	322.4	322.7	322.9	323.1
135°	335.4	335.9	336.3	336.8	337.3	337.5	337.7	338.0	338.3	338.6	338.9
137.5°	349.1	349.7	350.3	350.9	351.5	351.8	351.9	352.0	352.2	352.3	352.5
140°	362.8	363.2	363.7	364.1	364.6	364.8	364.9	365.2	365.4	365.7	365.9
142.5°	375.4	375.9	376.3	376.8	377.3	377.5	377.6	377.8	378.1	378.3	378.5
145°	387.1	387.6	388.2	388.7	389.2	389.5	389.6	389.7	389.8	390.0	390.1
147.5°	398.4	398.8	399.2	399.5	399.9	400.1	400.2	400.3	400.4	400.6	400.7
150°	408.6	408.8	409.0	409.3	409.5	409.6	409.7	409.8	410.0	410.1	410.3
152.5°	417.8	417.9	418.0	418.1	418.2	418.2	418.2	418.3	418.4	418.4	418.5
155°	426.4	426.2	426.1	425.9	425.8	425.7	425.7	425.8	425.9	425.9	426.0
157.5°	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.1	433.0	433.0	432.9
160°	439.4	439.3	439.2	439.1	439.0	439.0	439.0	438.9	438.8	438.8	438.7
162.5°	445.2	445.0	444.8	444.5	444.3	444.2	444.2	444.1	444.0	443.9	443.8
165°	449.6	449.4	449.2	448.9	448.7	448.6	448.6	448.5	448.4	448.4	448.3
167.5°	453.4	453.1	452.8	452.5	452.2	452.0	452.0	452.0	452.0	452.0	452.0
170°	456.5	456.2	455.9	455.6	455.3	455.1	455.1	455.1	455.1	455.1	455.1
172.5°	458.5	458.1	457.7	457.4	457.0	456.8	456.8	456.9	457.0	457.1	457.2
175°	460.2	459.8	459.4	459.1	458.7	458.5	458.5	458.6	458.7	458.8	458.9
177.5°	460.9	460.5	460.1	459.8	459.4	459.2	459.2	459.3	459.4	459.5	459.6
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1100.0	1102.0	1109.1	1114.2	1124.3	1123.3	1123.3	1122.3	1119.2	1124.3	1127.3
5°	1176.9	1194.1	1196.1	1218.4	1219.4	1228.5	1234.6	1229.5	1241.7	1240.7	1231.6
7.5°	1272.0	1295.3	1306.4	1327.7	1352.0	1345.9	1369.2	1373.2	1371.2	1381.3	1388.4
10°	1376.3	1416.7	1445.1	1484.5	1494.7	1500.7	1515.9	1529.1	1555.4	1535.1	1548.3
12.5°	1495.7	1525.0	1562.5	1625.2	1656.6	1676.8	1683.9	1693.0	1711.2	1700.1	1701.1
15°	1595.9	1635.3	1699.1	1777.0	1786.1	1811.4	1805.3	1860.0	1886.3	1846.8	1869.1
17.5°	1700.1	1752.7	1828.6	1896.4	1934.9	1952.1	1968.3	2020.9	2018.9	2012.8	2017.9
20°	1766.9	1852.9	1947.0	2037.1	2048.2	2061.4	2104.9	2127.1	2123.1	2140.3	2151.4
22.5°	1861.0	1952.1	2052.3	2112.0	2137.3	2152.4	2186.8	2201.0	2207.1	2211.1	2204.1
25°	1939.9	2037.1	2111.0	2163.6	2178.8	2186.8	2198.0	2202.0	2199.0	2191.9	2198.0
27.5°	1993.6	2071.5	2122.1	2146.4	2138.3	2125.1	2103.9	2089.7	2058.3	2043.2	2061.4
30°	2015.8	2050.2	2065.4	2024.9	1984.5	1952.1	1911.6	1836.7	1778.0	1795.2	1771.9
32.5°	1980.4	1958.1	1885.3	1781.1	1749.7	1697.1	1582.7	1494.7	1497.7	1451.2	1470.4
35°	1876.2	1775.0	1637.4	1479.5	1438.0	1409.7	1284.2	1265.0	1224.5	1181.0	1193.1
37.5°	1692.0	1544.3	1377.3	1260.9	1199.2	1137.4	1066.6	1024.1	999.8	981.6	995.8
40°	1467.3	1287.2	1149.6	1045.4	992.7	953.3	904.7	862.2	834.9	831.8	836.9
42.5°	1246.7	1094.9	968.4	869.3	852.1	805.5	774.2	740.8	732.7	719.5	726.6
45°	1055.5	932.0	827.8	746.8	726.6	714.4	676.0	654.7	645.6	637.5	649.7
47.5°	916.8	787.3	711.4	662.8	642.6	622.4	601.1	586.9	579.9	580.9	579.9
50°	783.3	688.1	621.3	583.9	571.8	557.6	540.4	531.3	528.2	519.1	526.2
52.5°	674.0	605.2	558.6	523.2	514.1	504.0	489.8	484.7	477.6	475.6	475.6
55°	585.9	532.3	494.8	471.6	460.4	452.3	444.3	438.2	433.1	433.1	433.1
57.5°	517.1	470.6	443.2	423.0	419.0	410.9	401.7	401.7	394.7	393.7	396.7
60°	458.4	416.9	395.7	378.5	372.4	370.4	361.3	361.3	359.2	354.2	358.2
62.5°	398.7	368.4	350.1	337.0	330.9	330.9	323.8	318.8	318.8	319.8	317.8
65°	344.1	321.8	305.6	295.5	292.5	288.4	287.4	283.3	280.3	281.3	280.3
67.5°	295.5	278.3	267.2	259.1	254.0	252.0	248.9	248.9	246.9	247.9	242.9
70°	252.0	234.8	225.7	217.6	215.5	215.5	211.5	212.5	210.5	213.5	211.5
72.5°	207.5	194.3	187.2	184.2	182.2	181.1	179.1	177.1	176.1	178.1	177.1
75°	168.0	156.9	151.8	149.8	147.7	147.7	146.7	145.7	144.7	144.7	144.7
77.5°	130.5	123.5	117.4	119.4	116.4	117.4	114.4	114.4	115.4	114.4	114.4
80°	96.1	91.1	91.1	89.1	85.0	87.0	87.0	84.0	83.0	85.0	82.0
82.5°	63.8	62.7	60.7	59.7	57.7	58.7	57.7	56.7	55.7	57.7	55.7
85°	37.4	37.4	36.4	34.4	36.4	35.4	34.4	34.4	33.4	33.4	33.4
87.5°	19.2	17.2	17.2	16.2	17.2	15.2	16.2	15.2	14.2	15.2	14.2
90°	8.5	8.8	9.1	9.4	9.6	9.7	9.8	10.0	10.1	10.3	10.1
92.5°	9.4	10.0	10.5	11.0	11.3	11.3	11.4	11.5	11.5	11.6	11.5
95°	11.1	11.7	12.2	12.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0
97.5°	11.5	12.1	12.8	13.4	13.7	13.7	13.8	13.9	13.9	14.0	13.9
100°	11.9	12.5	13.1	13.7	14.0	14.0	14.1	14.2	14.3	14.4	14.3
102.5°	22.8	20.3	17.8	15.3	14.0	14.1	14.2	14.4	14.5	14.7	14.5
105°	61.5	48.0	34.6	21.1	14.4	14.5	14.6	14.7	14.9	15.0	14.9
107.5°	121.3	109.6	97.9	86.2	80.4	75.4	65.5	55.5	45.6	35.6	45.6
110°	151.7	149.2	146.7	144.2	142.9	137.5	126.6	115.7	104.9	94.0	104.9

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	176.5	177.1	177.8	178.5	178.8	178.7	178.6	178.4	178.3	178.1	178.3
115°	197.1	197.8	198.6	199.3	199.7	199.9	200.2	200.5	200.8	201.1	200.8
117.5°	217.0	217.6	218.3	218.9	219.2	219.2	219.3	219.4	219.4	219.5	219.4
120°	236.5	237.1	237.8	238.4	238.7	238.7	238.7	238.7	238.7	238.7	238.7
122.5°	255.8	256.2	256.5	256.9	257.1	257.1	257.2	257.3	257.4	257.5	257.4
125°	273.7	273.8	274.0	274.1	274.2	274.3	274.4	274.6	274.7	274.9	274.7
127.5°	291.9	292.1	292.4	292.6	292.7	292.6	292.5	292.3	292.2	292.0	292.2
130°	308.0	308.3	308.6	308.9	309.1	309.0	308.9	308.7	308.6	308.4	308.6
132.5°	323.4	323.7	324.0	324.3	324.5	324.4	324.2	323.9	323.7	323.5	323.7
135°	339.1	339.3	339.6	339.8	339.9	339.8	339.6	339.3	339.1	338.9	339.1
137.5°	352.9	353.3	353.6	354.0	354.2	354.1	354.0	353.9	353.7	353.6	353.7
140°	366.2	366.5	366.8	367.1	367.2	367.1	367.0	366.9	366.7	366.6	366.7
142.5°	378.7	378.9	379.2	379.4	379.5	379.4	379.2	378.9	378.7	378.5	378.7
145°	390.3	390.4	390.6	390.7	390.8	390.8	390.8	390.8	390.8	390.8	390.8
147.5°	400.9	401.0	401.2	401.3	401.4	401.2	400.8	400.5	400.1	399.7	400.1
150°	410.5	410.6	410.8	410.9	411.0	410.9	410.7	410.4	410.2	410.0	410.2
152.5°	418.8	419.1	419.4	419.7	419.9	419.7	419.3	419.0	418.6	418.2	418.6
155°	426.4	426.8	427.2	427.6	427.8	427.6	427.1	426.6	426.2	425.7	426.2
157.5°	433.3	433.8	434.2	434.7	434.9	434.6	434.0	433.4	432.8	432.2	432.8
160°	439.1	439.6	440.0	440.5	440.7	440.4	439.9	439.4	438.9	438.4	438.9
162.5°	444.3	444.9	445.4	445.9	446.2	446.0	445.5	445.1	444.6	444.2	444.6
165°	448.9	449.5	450.1	450.7	451.0	450.7	450.2	449.7	449.1	448.6	449.1
167.5°	452.6	453.2	453.9	454.5	454.8	454.5	453.9	453.2	452.6	452.0	452.6
170°	455.7	456.3	456.9	457.5	457.8	457.5	456.9	456.3	455.7	455.1	455.7
172.5°	457.8	458.4	459.0	459.6	459.9	459.6	458.9	458.2	457.5	456.8	457.5
175°	459.4	460.0	460.5	461.0	461.3	461.0	460.4	459.7	459.1	458.5	459.1
177.5°	460.2	460.8	461.4	462.0	462.3	461.9	461.2	460.4	459.7	458.9	459.7
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1119.2	1122.3	1114.2	1112.1	1112.1	1116.2	1113.2	1085.8	1090.9	1084.8	1082.8
5°	1242.7	1236.6	1228.5	1224.5	1219.4	1205.2	1204.2	1172.9	1166.8	1146.6	1137.4
7.5°	1378.3	1373.2	1348.9	1345.9	1343.9	1330.7	1297.3	1263.9	1239.7	1216.4	1194.1
10°	1533.1	1517.9	1506.8	1484.5	1473.4	1455.2	1411.7	1380.3	1338.8	1303.4	1256.9
12.5°	1719.3	1702.1	1664.7	1648.5	1634.3	1583.7	1540.2	1504.8	1423.8	1399.5	1341.9
15°	1855.9	1819.5	1815.5	1780.0	1778.0	1722.4	1639.4	1600.9	1538.2	1449.1	1389.4
17.5°	2003.7	1971.3	1946.0	1903.5	1897.4	1844.8	1784.1	1690.0	1621.2	1536.2	1460.3
20°	2112.0	2094.8	2051.2	2034.0	1998.6	1954.1	1891.4	1775.0	1691.0	1606.0	1512.9
22.5°	2198.0	2180.8	2146.4	2123.1	2102.9	2045.2	1970.3	1871.1	1755.8	1644.4	1548.3
25°	2197.0	2191.9	2177.7	2166.6	2151.4	2108.9	2046.2	1951.1	1822.5	1700.1	1566.5
27.5°	2072.5	2086.7	2111.0	2123.1	2120.1	2114.0	2078.6	1998.6	1883.3	1737.5	1587.8
30°	1813.4	1865.0	1910.6	1971.3	1989.5	2034.0	2054.3	2008.7	1916.7	1781.1	1615.1
32.5°	1503.8	1578.7	1677.8	1711.2	1768.9	1854.9	1951.1	1968.3	1910.6	1806.4	1632.3
35°	1233.6	1295.3	1372.2	1424.8	1476.5	1616.1	1737.5	1842.8	1862.0	1793.2	1628.2
37.5°	1021.1	1064.6	1132.4	1176.9	1224.5	1343.9	1513.9	1650.5	1746.6	1748.7	1617.1
40°	867.3	886.5	945.2	977.6	1023.1	1126.3	1278.1	1456.2	1596.9	1661.6	1587.8
42.5°	734.7	760.0	808.6	832.8	862.2	952.3	1052.4	1221.4	1395.5	1534.1	1533.1
45°	655.8	674.0	696.2	716.5	749.9	803.5	917.8	1044.3	1211.3	1368.2	1429.9
47.5°	585.9	603.1	625.4	631.5	653.7	704.3	774.2	884.5	1040.3	1196.1	1312.5
50°	527.2	541.4	556.6	567.7	577.8	619.3	671.9	765.0	889.5	1040.3	1185.0
52.5°	481.7	491.8	505.0	511.0	520.1	550.5	591.0	659.8	762.0	899.6	1040.3
55°	439.2	446.3	454.4	464.5	468.5	490.8	522.2	580.9	656.8	780.2	913.8
57.5°	399.7	402.8	407.8	413.9	419.0	438.2	465.5	505.0	571.8	666.9	793.4
60°	355.2	363.3	366.3	372.4	375.4	390.6	411.9	445.3	496.9	578.8	674.0
62.5°	317.8	322.8	327.9	330.9	338.0	343.1	360.3	390.6	433.1	493.8	579.9
65°	284.4	286.4	289.4	292.5	294.5	300.6	316.7	337.0	369.4	423.0	489.8
67.5°	245.9	247.9	252.0	253.0	255.0	263.1	272.2	289.4	316.7	357.2	411.9
70°	208.5	211.5	213.5	215.5	218.6	221.6	231.7	245.9	267.2	295.5	338.0
72.5°	176.1	179.1	179.1	181.1	180.1	184.2	194.3	204.4	218.6	241.9	279.3
75°	143.7	143.7	145.7	146.7	147.7	151.8	155.8	163.9	175.1	193.3	216.6
77.5°	113.3	112.3	114.4	114.4	114.4	117.4	121.4	125.5	132.6	145.7	163.9
80°	83.0	83.0	85.0	86.0	84.0	85.0	87.0	91.1	96.1	105.2	115.4
82.5°	54.6	58.7	57.7	58.7	57.7	59.7	60.7	61.7	63.8	67.8	74.9
85°	33.4	33.4	33.4	34.4	33.4	34.4	34.4	34.4	35.4	37.4	40.5
87.5°	14.2	14.2	14.2	15.2	14.2	14.2	15.2	14.2	15.2	15.2	16.2
90°	10.0	9.8	9.7	9.6	9.4	9.1	8.8	8.5	8.2	7.2	6.2
92.5°	11.5	11.4	11.3	11.3	11.0	10.5	10.0	9.4	8.9	8.2	7.5
95°	13.0	13.0	13.0	13.0	12.7	12.2	11.7	11.1	10.6	9.8	8.9
97.5°	13.9	13.8	13.7	13.7	13.4	12.8	12.1	11.5	10.9	14.8	18.7
100°	14.2	14.1	14.0	14.0	13.7	13.1	12.5	11.9	11.3	23.1	35.0
102.5°	14.4	14.2	14.1	14.0	15.3	17.8	20.3	22.8	25.3	38.5	51.7
105°	14.7	14.6	14.5	14.4	21.1	34.6	48.0	61.5	74.9	81.7	88.6
107.5°	55.5	65.5	75.4	80.4	86.2	97.9	109.6	121.3	133.0	131.9	130.7
110°	115.7	126.6	137.5	142.9	144.2	146.7	149.2	151.7	154.2	153.4	152.5

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	178.4	178.6	178.7	178.8	178.5	177.8	177.1	176.5	175.8	175.0	174.1
115°	200.5	200.2	199.9	199.7	199.3	198.6	197.8	197.1	196.3	195.6	194.9
117.5°	219.4	219.3	219.2	219.2	218.9	218.3	217.6	217.0	216.4	216.0	215.6
120°	238.7	238.7	238.7	238.7	238.4	237.8	237.1	236.5	235.9	235.7	235.5
122.5°	257.3	257.2	257.1	257.1	256.9	256.5	256.2	255.8	255.4	255.1	254.8
125°	274.6	274.4	274.3	274.2	274.1	274.0	273.8	273.7	273.5	273.2	272.9
127.5°	292.3	292.5	292.6	292.7	292.6	292.4	292.1	291.9	291.7	291.3	290.9
130°	308.7	308.9	309.0	309.1	308.9	308.6	308.3	308.0	307.7	307.4	307.1
132.5°	323.9	324.2	324.4	324.5	324.3	324.0	323.7	323.4	323.1	322.9	322.7
135°	339.3	339.6	339.8	339.9	339.8	339.6	339.3	339.1	338.9	338.6	338.3
137.5°	353.9	354.0	354.1	354.2	354.0	353.6	353.3	352.9	352.5	352.3	352.2
140°	366.9	367.0	367.1	367.2	367.1	366.8	366.5	366.2	365.9	365.7	365.4
142.5°	378.9	379.2	379.4	379.5	379.4	379.2	378.9	378.7	378.5	378.3	378.1
145°	390.8	390.8	390.8	390.8	390.7	390.6	390.4	390.3	390.1	390.0	389.8
147.5°	400.5	400.8	401.2	401.4	401.3	401.2	401.0	400.9	400.7	400.6	400.4
150°	410.4	410.7	410.9	411.0	410.9	410.8	410.6	410.5	410.3	410.1	410.0
152.5°	419.0	419.3	419.7	419.9	419.7	419.4	419.1	418.8	418.5	418.4	418.4
155°	426.6	427.1	427.6	427.8	427.6	427.2	426.8	426.4	426.0	425.9	425.9
157.5°	433.4	434.0	434.6	434.9	434.7	434.2	433.8	433.3	432.9	433.0	433.0
160°	439.4	439.9	440.4	440.7	440.5	440.0	439.6	439.1	438.7	438.8	438.8
162.5°	445.1	445.5	446.0	446.2	445.9	445.4	444.9	444.3	443.8	443.9	444.0
165°	449.7	450.2	450.7	451.0	450.7	450.1	449.5	448.9	448.3	448.4	448.4
167.5°	453.2	453.9	454.5	454.8	454.5	453.9	453.2	452.6	452.0	452.0	452.0
170°	456.3	456.9	457.5	457.8	457.5	456.9	456.3	455.7	455.1	455.1	455.1
172.5°	458.2	458.9	459.6	459.9	459.6	459.0	458.4	457.8	457.2	457.1	457.0
175°	459.7	460.4	461.0	461.3	461.0	460.5	460.0	459.4	458.9	458.8	458.7
177.5°	460.4	461.2	461.9	462.3	462.0	461.4	460.8	460.2	459.6	459.5	459.4
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1072.7	1069.6	1069.6	1067.6	1061.5	1050.4	1049.4	1051.4	1045.4	1039.3	1030.2
5°	1125.3	1106.1	1100.0	1093.9	1081.8	1061.5	1053.5	1046.4	1035.2	1022.1	1007.9
7.5°	1169.8	1142.5	1134.4	1123.3	1099.0	1070.7	1052.4	1037.3	1022.1	1003.9	986.7
10°	1225.5	1186.0	1166.8	1150.6	1117.2	1077.7	1050.4	1028.2	1003.9	981.6	959.3
12.5°	1288.2	1224.5	1218.4	1178.9	1140.5	1081.8	1048.4	1016.0	983.6	956.3	933.0
15°	1340.8	1271.0	1245.7	1219.4	1145.5	1072.7	1040.3	1003.9	966.4	937.1	902.7
17.5°	1374.2	1316.6	1262.9	1227.5	1150.6	1085.8	1023.1	981.6	942.1	901.7	873.3
20°	1414.7	1330.7	1284.2	1236.6	1160.7	1075.7	1013.0	961.4	912.8	876.4	842.0
22.5°	1455.2	1341.9	1303.4	1251.8	1162.7	1065.6	994.8	943.1	887.5	851.1	813.6
25°	1451.2	1358.1	1294.3	1250.8	1142.5	1056.5	973.5	912.8	861.2	814.6	777.2
27.5°	1454.2	1339.8	1275.1	1224.5	1128.3	1043.3	951.2	887.5	833.9	785.3	745.8
30°	1455.2	1312.5	1255.8	1195.1	1102.0	1012.0	925.9	861.2	804.5	751.9	716.5
32.5°	1452.2	1290.3	1219.4	1164.8	1060.5	981.6	896.6	827.8	770.1	721.5	688.1
35°	1445.1	1263.9	1182.0	1113.2	1018.0	938.1	869.3	798.4	736.7	692.2	653.7
37.5°	1425.9	1235.6	1142.5	1074.7	968.4	887.5	826.8	768.1	708.4	655.8	623.4
40°	1411.7	1197.2	1103.0	1029.2	914.8	835.9	785.3	729.6	670.9	623.4	592.0
42.5°	1379.3	1160.7	1062.6	974.5	862.2	781.2	733.7	689.1	638.5	592.0	563.7
45°	1326.7	1121.3	1013.0	923.9	804.5	727.6	684.1	647.7	603.1	558.6	530.3
47.5°	1252.8	1064.6	960.4	871.3	747.8	669.9	626.4	599.1	563.7	526.2	501.9
50°	1172.9	1002.9	906.7	818.7	693.2	617.3	574.8	549.5	526.2	491.8	468.5
52.5°	1068.6	937.1	845.0	761.0	634.5	561.6	524.2	506.0	481.7	457.4	437.2
55°	967.4	852.1	776.2	696.2	576.8	509.0	472.6	453.4	439.2	419.0	402.8
57.5°	850.0	773.1	703.3	630.5	523.2	461.5	427.0	403.8	394.7	385.6	370.4
60°	741.8	683.1	626.4	565.7	467.5	411.9	378.5	360.3	351.2	345.1	335.0
62.5°	642.6	597.1	548.5	499.9	410.9	360.3	335.0	316.7	308.6	307.6	298.5
65°	547.5	515.1	475.6	428.1	358.2	313.7	289.4	278.3	269.2	269.2	262.1
67.5°	452.3	430.1	398.7	365.3	310.7	269.2	246.9	236.8	231.7	231.7	226.7
70°	376.4	361.3	332.9	303.6	256.0	224.7	207.5	198.3	195.3	196.3	192.3
72.5°	305.6	289.4	266.1	244.9	209.5	186.2	174.1	163.9	158.9	159.9	158.9
75°	236.8	228.7	208.5	192.3	163.9	147.7	136.6	131.6	127.5	128.5	126.5
77.5°	178.1	166.0	154.8	143.7	126.5	113.3	104.2	99.2	96.1	96.1	96.1
80°	121.4	119.4	110.3	104.2	90.1	79.9	72.9	71.8	68.8	68.8	68.8
82.5°	78.9	73.9	68.8	64.8	56.7	50.6	47.6	45.5	44.5	43.5	45.5
85°	43.5	40.5	38.5	34.4	31.4	28.3	25.3	24.3	23.3	24.3	23.3
87.5°	17.2	14.2	14.2	13.2	12.1	11.1	11.1	9.1	9.1	8.1	8.1
90°	5.3	4.3	3.8	3.4	2.6	1.9	1.1	0.3	1.1	1.9	2.6
92.5°	6.8	6.1	5.8	6.0	6.5	7.0	7.4	7.9	7.4	7.0	6.5
95°	8.1	7.2	6.8	8.4	11.5	14.6	17.8	20.9	17.8	14.6	11.5
97.5°	22.6	26.5	28.4	29.5	31.6	33.7	35.9	38.0	35.9	33.7	31.6
100°	46.8	58.7	64.6	63.8	62.3	60.8	59.3	57.8	59.3	60.8	62.3
102.5°	65.0	78.2	84.8	84.3	83.3	82.4	81.4	80.4	81.4	82.4	83.3
105°	95.4	102.3	105.7	105.3	104.4	103.6	102.7	101.9	102.7	103.6	104.4
107.5°	129.6	128.5	127.9	127.6	126.9	126.2	125.5	124.8	125.5	126.2	126.9
110°	151.7	150.8	150.4	150.1	149.5	148.9	148.3	147.7	148.3	148.9	149.5

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	173.3	172.4	172.0	171.7	171.2	170.7	170.1	169.6	170.1	170.7	171.2
115°	194.2	193.5	193.2	193.0	192.5	192.0	191.6	191.1	191.6	192.0	192.5
117.5°	215.3	214.9	214.7	214.4	213.9	213.4	212.8	212.3	212.8	213.4	213.9
120°	235.2	235.0	234.9	234.6	233.9	233.2	232.5	231.8	232.5	233.2	233.9
122.5°	254.5	254.2	254.1	253.8	253.3	252.8	252.2	251.7	252.2	252.8	253.3
125°	272.6	272.3	272.2	271.9	271.3	270.6	270.0	269.4	270.0	270.6	271.3
127.5°	290.6	290.2	290.0	289.7	289.1	288.4	287.8	287.2	287.8	288.4	289.1
130°	306.8	306.5	306.4	306.1	305.5	304.8	304.2	303.6	304.2	304.8	305.5
132.5°	322.4	322.2	322.1	321.8	321.2	320.6	320.0	319.4	320.0	320.6	321.2
135°	338.0	337.7	337.5	337.3	336.8	336.3	335.9	335.4	335.9	336.3	336.8
137.5°	352.0	351.9	351.8	351.5	350.9	350.3	349.7	349.1	349.7	350.3	350.9
140°	365.2	364.9	364.8	364.6	364.1	363.7	363.2	362.8	363.2	363.7	364.1
142.5°	377.8	377.6	377.5	377.3	376.8	376.3	375.9	375.4	375.9	376.3	376.8
145°	389.7	389.6	389.5	389.2	388.7	388.2	387.6	387.1	387.6	388.2	388.7
147.5°	400.3	400.2	400.1	399.9	399.5	399.2	398.8	398.4	398.8	399.2	399.5
150°	409.8	409.7	409.6	409.5	409.3	409.0	408.8	408.6	408.8	409.0	409.3
152.5°	418.3	418.2	418.2	418.2	418.1	418.0	417.9	417.8	417.9	418.0	418.1
155°	425.8	425.7	425.7	425.8	425.9	426.1	426.2	426.4	426.2	426.1	425.9
157.5°	433.1	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2	433.2
160°	438.9	439.0	439.0	439.0	439.1	439.2	439.3	439.4	439.3	439.2	439.1
162.5°	444.1	444.2	444.2	444.3	444.5	444.8	445.0	445.2	445.0	444.8	444.5
165°	448.5	448.6	448.6	448.7	448.9	449.2	449.4	449.6	449.4	449.2	448.9
167.5°	452.0	452.0	452.0	452.2	452.5	452.8	453.1	453.4	453.1	452.8	452.5
170°	455.1	455.1	455.1	455.3	455.6	455.9	456.2	456.5	456.2	455.9	455.6
172.5°	456.9	456.8	456.8	457.0	457.4	457.7	458.1	458.5	458.1	457.7	457.4
175°	458.6	458.5	458.5	458.7	459.1	459.4	459.8	460.2	459.8	459.4	459.1
177.5°	459.3	459.2	459.2	459.4	459.8	460.1	460.5	460.9	460.5	460.1	459.8
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	1028.2	1027.1	1029.2	1023.1	1013.0	1007.9	993.7	990.7	989.7	990.7	991.7
5°	999.8	998.8	995.8	985.7	973.5	964.4	947.2	946.2	940.1	934.0	937.1
7.5°	972.5	968.4	962.4	949.2	933.0	922.9	908.7	898.6	890.5	885.5	881.4
10°	945.2	939.1	933.0	915.8	895.6	880.4	863.2	855.1	846.0	842.0	837.9
12.5°	909.8	903.7	892.6	872.3	860.2	840.9	823.7	815.6	810.6	802.5	797.4
15°	881.4	869.3	863.2	842.0	816.7	814.6	783.3	781.2	771.1	771.1	763.0
17.5°	849.0	839.9	828.8	807.5	789.3	771.1	754.9	748.9	739.7	737.7	733.7
20°	817.7	805.5	801.5	780.2	761.0	738.7	721.5	715.5	711.4	707.4	710.4
22.5°	785.3	775.2	765.0	745.8	731.6	709.4	699.3	693.2	687.1	685.1	686.1
25°	753.9	744.8	734.7	715.5	700.3	682.1	673.0	669.9	666.9	666.9	665.9
27.5°	723.6	714.4	705.3	688.1	673.0	659.8	652.7	649.7	646.6	648.7	650.7
30°	692.2	684.1	676.0	660.8	648.7	636.5	632.5	630.5	629.4	634.5	634.5
32.5°	663.8	656.8	650.7	636.5	624.4	614.3	611.2	612.2	613.2	616.3	618.3
35°	634.5	629.4	623.4	611.2	601.1	592.0	593.0	593.0	595.0	600.1	604.1
37.5°	608.2	601.1	596.0	585.9	577.8	569.7	572.8	575.8	577.8	583.9	585.9
40°	576.8	573.8	569.7	559.6	552.5	551.5	552.5	554.6	558.6	561.6	564.7
42.5°	551.5	547.5	542.4	534.3	528.2	529.3	530.3	532.3	534.3	539.4	542.4
45°	523.2	520.1	516.1	509.0	504.0	505.0	506.0	506.0	508.0	514.1	516.1
47.5°	491.8	492.8	487.8	480.7	477.6	477.6	477.6	479.7	484.7	486.8	487.8
50°	461.5	459.4	458.4	451.3	449.3	448.3	449.3	450.3	457.4	456.4	459.4
52.5°	429.1	429.1	428.1	424.0	421.0	421.0	419.0	424.0	426.0	428.1	431.1
55°	397.7	394.7	393.7	391.6	387.6	386.6	388.6	394.7	396.7	398.7	401.7
57.5°	363.3	363.3	361.3	358.2	358.2	358.2	358.2	362.3	365.3	367.3	373.4
60°	331.9	327.9	324.8	324.8	324.8	323.8	329.9	329.9	336.0	337.0	339.0
62.5°	294.5	292.5	290.4	291.4	290.4	292.5	294.5	298.5	299.5	302.6	305.6
65°	259.1	259.1	257.0	263.1	259.1	259.1	264.1	264.1	266.1	269.2	273.2
67.5°	224.7	225.7	223.6	223.6	225.7	226.7	227.7	231.7	232.8	236.8	241.9
70°	189.2	191.3	192.3	190.2	192.3	194.3	196.3	197.3	201.4	203.4	206.4
72.5°	157.9	159.9	156.9	157.9	158.9	160.9	161.9	163.9	166.0	172.0	174.1
75°	126.5	125.5	124.5	128.5	126.5	130.5	131.6	131.6	133.6	138.6	140.7
77.5°	97.1	97.1	98.2	96.1	99.2	98.2	99.2	102.2	105.2	105.2	113.3
80°	67.8	69.8	69.8	69.8	70.8	71.8	69.8	74.9	75.9	75.9	78.9
82.5°	43.5	44.5	43.5	45.5	45.5	47.6	46.6	47.6	49.6	51.6	52.6
85°	23.3	23.3	25.3	25.3	24.3	25.3	24.3	25.3	27.3	27.3	28.3
87.5°	8.1	8.1	8.1	8.1	9.1	8.1	9.1	9.1	8.1	8.1	11.1
90°	3.4	3.8	4.3	5.3	6.2	7.2	8.2	8.5	8.8	9.1	9.4
92.5°	6.0	5.8	6.1	6.8	7.5	8.2	8.9	9.4	10.0	10.5	11.0
95°	8.4	6.8	7.2	8.1	8.9	9.8	10.6	11.1	11.7	12.2	12.7
97.5°	29.5	28.4	26.5	22.6	18.7	14.8	10.9	11.5	12.1	12.8	13.4
100°	63.8	64.6	58.7	46.8	35.0	23.1	11.3	11.9	12.5	13.1	13.7
102.5°	84.3	84.8	78.2	65.0	51.7	38.5	25.3	22.8	20.3	17.8	15.3
105°	105.3	105.7	102.3	95.4	88.6	81.7	74.9	61.5	48.0	34.6	21.1
107.5°	127.6	127.9	128.5	129.6	130.7	131.9	133.0	121.3	109.6	97.9	86.2
110°	150.1	150.4	150.8	151.7	152.5	153.4	154.2	151.7	149.2	146.7	144.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	171.7	172.0	172.4	173.3	174.1	175.0	175.8	176.5	177.1	177.8	178.5
115°	193.0	193.2	193.5	194.2	194.9	195.6	196.3	197.1	197.8	198.6	199.3
117.5°	214.4	214.7	214.9	215.3	215.6	216.0	216.4	217.0	217.6	218.3	218.9
120°	234.6	234.9	235.0	235.2	235.5	235.7	235.9	236.5	237.1	237.8	238.4
122.5°	253.8	254.1	254.2	254.5	254.8	255.1	255.4	255.8	256.2	256.5	256.9
125°	271.9	272.2	272.3	272.6	272.9	273.2	273.5	273.7	273.8	274.0	274.1
127.5°	289.7	290.0	290.2	290.6	290.9	291.3	291.7	291.9	292.1	292.4	292.6
130°	306.1	306.4	306.5	306.8	307.1	307.4	307.7	308.0	308.3	308.6	308.9
132.5°	321.8	322.1	322.2	322.4	322.7	322.9	323.1	323.4	323.7	324.0	324.3
135°	337.3	337.5	337.7	338.0	338.3	338.6	338.9	339.1	339.3	339.6	339.8
137.5°	351.5	351.8	351.9	352.0	352.2	352.3	352.5	352.9	353.3	353.6	354.0
140°	364.6	364.8	364.9	365.2	365.4	365.7	365.9	366.2	366.5	366.8	367.1
142.5°	377.3	377.5	377.6	377.8	378.1	378.3	378.5	378.7	378.9	379.2	379.4
145°	389.2	389.5	389.6	389.7	389.8	390.0	390.1	390.3	390.4	390.6	390.7
147.5°	399.9	400.1	400.2	400.3	400.4	400.6	400.7	400.9	401.0	401.2	401.3
150°	409.5	409.6	409.7	409.8	410.0	410.1	410.3	410.5	410.6	410.8	410.9
152.5°	418.2	418.2	418.2	418.3	418.4	418.4	418.5	418.8	419.1	419.4	419.7
155°	425.8	425.7	425.7	425.8	425.9	425.9	426.0	426.4	426.8	427.2	427.6
157.5°	433.2	433.2	433.2	433.1	433.0	433.0	432.9	433.3	433.8	434.2	434.7
160°	439.0	439.0	439.0	438.9	438.8	438.8	438.7	439.1	439.6	440.0	440.5
162.5°	444.3	444.2	444.2	444.1	444.0	443.9	443.8	444.3	444.9	445.4	445.9
165°	448.7	448.6	448.6	448.5	448.4	448.4	448.3	448.9	449.5	450.1	450.7
167.5°	452.2	452.0	452.0	452.0	452.0	452.0	452.0	452.6	453.2	453.9	454.5
170°	455.3	455.1	455.1	455.1	455.1	455.1	455.1	455.7	456.3	456.9	457.5
172.5°	457.0	456.8	456.8	456.9	457.0	457.1	457.2	457.8	458.4	459.0	459.6
175°	458.7	458.5	458.5	458.6	458.7	458.8	458.9	459.4	460.0	460.5	461.0
177.5°	459.4	459.2	459.2	459.3	459.4	459.5	459.6	460.2	460.8	461.4	462.0
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	990.7	991.7	987.7	984.6	992.7	987.7	987.7	988.7	986.7	989.7	988.7
5°	935.1	936.1	929.0	931.0	927.0	925.9	924.9	931.0	930.0	929.0	931.0
7.5°	880.4	880.4	877.4	875.3	875.3	872.3	876.4	875.3	877.4	877.4	880.4
10°	834.9	836.9	831.8	826.8	825.8	826.8	826.8	827.8	828.8	835.9	834.9
12.5°	797.4	794.4	793.4	790.3	785.3	783.3	781.2	792.4	789.3	789.3	789.3
15°	755.9	763.0	762.0	752.9	750.9	754.9	752.9	752.9	763.0	762.0	761.0
17.5°	733.7	731.6	729.6	724.6	725.6	724.6	725.6	725.6	731.6	731.6	731.6
20°	708.4	704.3	704.3	702.3	702.3	699.3	703.3	704.3	708.4	708.4	709.4
22.5°	686.1	683.1	683.1	682.1	684.1	680.0	684.1	685.1	685.1	688.1	688.1
25°	666.9	664.9	664.9	666.9	666.9	666.9	666.9	670.9	667.9	668.9	667.9
27.5°	649.7	650.7	651.7	652.7	651.7	652.7	653.7	655.8	656.8	655.8	653.7
30°	633.5	636.5	637.5	637.5	639.6	640.6	641.6	641.6	642.6	639.6	641.6
32.5°	621.3	621.3	623.4	624.4	626.4	627.4	627.4	629.4	628.4	625.4	626.4
35°	604.1	604.1	608.2	610.2	613.2	612.2	613.2	613.2	614.3	612.2	609.2
37.5°	586.9	589.0	589.0	593.0	594.0	595.0	594.0	596.0	595.0	593.0	592.0
40°	566.7	565.7	566.7	569.7	570.7	570.7	570.7	572.8	572.8	572.8	571.8
42.5°	541.4	544.4	543.4	546.5	545.4	545.4	547.5	549.5	550.5	547.5	548.5
45°	517.1	517.1	519.1	519.1	520.1	520.1	524.2	522.2	524.2	522.2	523.2
47.5°	490.8	491.8	491.8	492.8	494.8	496.9	494.8	495.9	495.9	496.9	494.8
50°	461.5	461.5	463.5	466.5	470.6	468.5	467.5	471.6	468.5	468.5	466.5
52.5°	431.1	434.1	435.1	438.2	441.2	442.2	443.2	441.2	442.2	439.2	440.2
55°	401.7	402.8	406.8	409.8	412.9	412.9	411.9	412.9	413.9	409.8	409.8
57.5°	372.4	375.4	379.5	379.5	383.5	383.5	382.5	382.5	383.5	380.5	379.5
60°	341.0	344.1	349.1	349.1	355.2	356.2	354.2	352.2	352.2	349.1	350.1
62.5°	307.6	310.7	313.7	318.8	322.8	320.8	324.8	320.8	321.8	315.7	315.7
65°	278.3	279.3	284.4	289.4	289.4	291.4	289.4	290.4	287.4	287.4	283.3
67.5°	243.9	243.9	248.9	254.0	259.1	259.1	259.1	256.0	256.0	253.0	253.0
70°	213.5	212.5	217.6	220.6	223.6	224.7	222.6	221.6	219.6	216.6	215.5
72.5°	176.1	178.1	183.2	185.2	190.2	189.2	194.3	188.2	188.2	183.2	182.2
75°	142.7	144.7	149.8	152.8	155.8	155.8	158.9	155.8	151.8	149.8	148.8
77.5°	113.3	112.3	116.4	121.4	122.4	121.4	123.5	122.4	118.4	118.4	116.4
80°	81.0	84.0	88.0	87.0	91.1	90.1	90.1	88.0	88.0	85.0	87.0
82.5°	53.6	56.7	57.7	56.7	57.7	59.7	60.7	59.7	59.7	57.7	58.7
85°	28.3	28.3	30.4	31.4	30.4	30.4	31.4	34.4	32.4	30.4	32.4
87.5°	9.1	8.1	8.1	9.1	8.1	8.1	9.1	9.1	10.1	10.1	10.1
90°	9.6	9.7	9.8	10.0	10.1	10.3	10.1	10.0	9.8	9.7	9.6
92.5°	11.3	11.3	11.4	11.5	11.5	11.6	11.5	11.5	11.4	11.3	11.3
95°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
97.5°	13.7	13.7	13.8	13.9	13.9	14.0	13.9	13.9	13.8	13.7	13.7
100°	14.0	14.0	14.1	14.2	14.3	14.4	14.3	14.2	14.1	14.0	14.0
102.5°	14.0	14.1	14.2	14.4	14.5	14.7	14.5	14.4	14.2	14.1	14.0
105°	14.4	14.5	14.6	14.7	14.9	15.0	14.9	14.7	14.6	14.5	14.4
107.5°	80.4	75.4	65.5	55.5	45.6	35.6	45.6	55.5	65.5	75.4	80.4
110°	142.9	137.5	126.6	115.7	104.9	94.0	104.9	115.7	126.6	137.5	142.9

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	178.8	178.7	178.6	178.4	178.3	178.1	178.3	178.4	178.6	178.7	178.8
115°	199.7	199.9	200.2	200.5	200.8	201.1	200.8	200.5	200.2	199.9	199.7
117.5°	219.2	219.2	219.3	219.4	219.4	219.5	219.4	219.4	219.3	219.2	219.2
120°	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7	238.7
122.5°	257.1	257.1	257.2	257.3	257.4	257.5	257.4	257.3	257.2	257.1	257.1
125°	274.2	274.3	274.4	274.6	274.7	274.9	274.7	274.6	274.4	274.3	274.2
127.5°	292.7	292.6	292.5	292.3	292.2	292.0	292.2	292.3	292.5	292.6	292.7
130°	309.1	309.0	308.9	308.7	308.6	308.4	308.6	308.7	308.9	309.0	309.1
132.5°	324.5	324.4	324.2	323.9	323.7	323.5	323.7	323.9	324.2	324.4	324.5
135°	339.9	339.8	339.6	339.3	339.1	338.9	339.1	339.3	339.6	339.8	339.9
137.5°	354.2	354.1	354.0	353.9	353.7	353.6	353.7	353.9	354.0	354.1	354.2
140°	367.2	367.1	367.0	366.9	366.7	366.6	366.7	366.9	367.0	367.1	367.2
142.5°	379.5	379.4	379.2	378.9	378.7	378.5	378.7	378.9	379.2	379.4	379.5
145°	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8	390.8
147.5°	401.4	401.2	400.8	400.5	400.1	399.7	400.1	400.5	400.8	401.2	401.4
150°	411.0	410.9	410.7	410.4	410.2	410.0	410.2	410.4	410.7	410.9	411.0
152.5°	419.9	419.7	419.3	419.0	418.6	418.2	418.6	419.0	419.3	419.7	419.9
155°	427.8	427.6	427.1	426.6	426.2	425.7	426.2	426.6	427.1	427.6	427.8
157.5°	434.9	434.6	434.0	433.4	432.8	432.2	432.8	433.4	434.0	434.6	434.9
160°	440.7	440.4	439.9	439.4	438.9	438.4	438.9	439.4	439.9	440.4	440.7
162.5°	446.2	446.0	445.5	445.1	444.6	444.2	444.6	445.1	445.5	446.0	446.2
165°	451.0	450.7	450.2	449.7	449.1	448.6	449.1	449.7	450.2	450.7	451.0
167.5°	454.8	454.5	453.9	453.2	452.6	452.0	452.6	453.2	453.9	454.5	454.8
170°	457.8	457.5	456.9	456.3	455.7	455.1	455.7	456.3	456.9	457.5	457.8
172.5°	459.9	459.6	458.9	458.2	457.5	456.8	457.5	458.2	458.9	459.6	459.9
175°	461.3	461.0	460.4	459.7	459.1	458.5	459.1	459.7	460.4	461.0	461.3
177.5°	462.3	461.9	461.2	460.4	459.7	458.9	459.7	460.4	461.2	461.9	462.3
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3	1044.3
2.5°	991.7	993.7	994.8	990.7	987.7	992.7	999.8	1004.9	1008.9	1014.0	1017.0
5°	933.0	940.1	940.1	942.1	945.2	950.2	963.4	972.5	980.6	986.7	991.7
7.5°	883.4	888.5	891.5	896.6	901.7	908.7	923.9	937.1	949.2	956.3	964.4
10°	838.9	843.0	848.0	851.1	860.2	870.3	889.5	900.6	914.8	925.9	936.1
12.5°	796.4	810.6	813.6	812.6	820.7	831.8	851.1	868.3	883.4	894.6	905.7
15°	766.1	771.1	777.2	776.2	793.4	796.4	812.6	832.8	853.1	860.2	870.3
17.5°	732.7	740.8	746.8	749.9	754.9	766.1	781.2	796.4	822.7	823.7	850.0
20°	706.3	714.4	718.5	722.5	725.6	738.7	751.9	769.1	790.3	801.5	815.6
22.5°	689.1	693.2	696.2	699.3	703.3	710.4	726.6	745.8	760.0	772.1	781.2
25°	668.9	673.0	677.0	679.0	682.1	686.1	698.3	713.4	733.7	741.8	750.9
27.5°	654.7	654.7	656.8	656.8	660.8	664.9	674.0	688.1	704.3	714.4	726.6
30°	639.6	638.5	639.6	638.5	637.5	643.6	651.7	663.8	675.0	687.1	695.2
32.5°	624.4	623.4	623.4	624.4	620.3	623.4	627.4	638.5	650.7	656.8	665.9
35°	608.2	606.2	606.2	606.2	604.1	602.1	606.2	616.3	624.4	632.5	639.6
37.5°	592.0	589.0	589.0	586.9	584.9	581.9	581.9	590.0	601.1	604.1	613.2
40°	569.7	569.7	567.7	566.7	564.7	562.7	559.6	566.7	576.8	579.9	586.9
42.5°	547.5	544.4	543.4	543.4	543.4	540.4	538.4	543.4	549.5	554.6	558.6
45°	522.2	520.1	521.2	520.1	518.1	517.1	516.1	518.1	525.2	527.2	532.3
47.5°	494.8	493.8	493.8	492.8	491.8	492.8	488.8	493.8	495.9	497.9	501.9
50°	466.5	465.5	464.5	463.5	463.5	464.5	463.5	463.5	467.5	469.6	473.6
52.5°	438.2	435.1	435.1	434.1	434.1	432.1	434.1	435.1	437.2	439.2	441.2
55°	407.8	407.8	404.8	404.8	402.8	402.8	403.8	402.8	406.8	408.8	408.8
57.5°	378.5	374.4	375.4	373.4	371.4	370.4	370.4	372.4	374.4	374.4	376.4
60°	347.1	343.1	342.0	338.0	340.0	337.0	338.0	338.0	342.0	340.0	342.0
62.5°	315.7	310.7	307.6	305.6	305.6	306.6	304.6	303.6	305.6	307.6	311.7
65°	282.3	279.3	276.3	273.2	273.2	272.2	274.2	271.2	270.2	271.2	273.2
67.5°	247.9	244.9	241.9	238.8	239.8	236.8	234.8	237.8	235.8	236.8	238.8
70°	214.5	212.5	206.4	204.4	203.4	204.4	203.4	201.4	204.4	203.4	204.4
72.5°	181.1	179.1	176.1	171.0	171.0	170.0	169.0	169.0	168.0	168.0	168.0
75°	148.8	144.7	141.7	140.7	138.6	137.6	136.6	134.6	135.6	136.6	134.6
77.5°	115.4	110.3	109.3	109.3	106.3	106.3	107.3	106.3	105.2	105.2	105.2
80°	85.0	81.0	81.0	78.9	76.9	76.9	76.9	76.9	75.9	74.9	75.9
82.5°	54.6	53.6	52.6	52.6	54.6	50.6	52.6	51.6	50.6	50.6	49.6
85°	30.4	31.4	30.4	31.4	29.3	30.4	30.4	30.4	29.3	30.4	28.3
87.5°	11.1	11.1	11.1	12.1	12.1	12.1	12.1	12.1	13.2	12.1	12.1
90°	9.4	9.1	8.8	8.5	8.2	7.2	6.2	5.3	4.3	3.8	3.4
92.5°	11.0	10.5	10.0	9.4	8.9	8.2	7.5	6.8	6.1	5.8	6.0
95°	12.7	12.2	11.7	11.1	10.6	9.8	8.9	8.1	7.2	6.8	8.4
97.5°	13.4	12.8	12.1	11.5	10.9	14.8	18.7	22.6	26.5	28.4	29.5
100°	13.7	13.1	12.5	11.9	11.3	23.1	35.0	46.8	58.7	64.6	63.8
102.5°	15.3	17.8	20.3	22.8	25.3	38.5	51.7	65.0	78.2	84.8	84.3
105°	21.1	34.6	48.0	61.5	74.9	81.7	88.6	95.4	102.3	105.7	105.3
107.5°	86.2	97.9	109.6	121.3	133.0	131.9	130.7	129.6	128.5	127.9	127.6
110°	144.2	146.7	149.2	151.7	154.2	153.4	152.5	151.7	150.8	150.4	150.1

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	178.5	177.8	177.1	176.5	175.8	175.0	174.1	173.3	172.4	172.0	171.7
115°	199.3	198.6	197.8	197.1	196.3	195.6	194.9	194.2	193.5	193.2	193.0
117.5°	218.9	218.3	217.6	217.0	216.4	216.0	215.6	215.3	214.9	214.7	214.4
120°	238.4	237.8	237.1	236.5	235.9	235.7	235.5	235.2	235.0	234.9	234.6
122.5°	256.9	256.5	256.2	255.8	255.4	255.1	254.8	254.5	254.2	254.1	253.8
125°	274.1	274.0	273.8	273.7	273.5	273.2	272.9	272.6	272.3	272.2	271.9
127.5°	292.6	292.4	292.1	291.9	291.7	291.3	290.9	290.6	290.2	290.0	289.7
130°	308.9	308.6	308.3	308.0	307.7	307.4	307.1	306.8	306.5	306.4	306.1
132.5°	324.3	324.0	323.7	323.4	323.1	322.9	322.7	322.4	322.2	322.1	321.8
135°	339.8	339.6	339.3	339.1	338.9	338.6	338.3	338.0	337.7	337.5	337.3
137.5°	354.0	353.6	353.3	352.9	352.5	352.3	352.2	352.0	351.9	351.8	351.5
140°	367.1	366.8	366.5	366.2	365.9	365.7	365.4	365.2	364.9	364.8	364.6
142.5°	379.4	379.2	378.9	378.7	378.5	378.3	378.1	377.8	377.6	377.5	377.3
145°	390.7	390.6	390.4	390.3	390.1	390.0	389.8	389.7	389.6	389.5	389.2
147.5°	401.3	401.2	401.0	400.9	400.7	400.6	400.4	400.3	400.2	400.1	399.9
150°	410.9	410.8	410.6	410.5	410.3	410.1	410.0	409.8	409.7	409.6	409.5
152.5°	419.7	419.4	419.1	418.8	418.5	418.4	418.4	418.3	418.2	418.2	418.2
155°	427.6	427.2	426.8	426.4	426.0	425.9	425.9	425.8	425.7	425.7	425.8
157.5°	434.7	434.2	433.8	433.3	432.9	433.0	433.0	433.1	433.2	433.2	433.2
160°	440.5	440.0	439.6	439.1	438.7	438.8	438.8	438.9	439.0	439.0	439.0
162.5°	445.9	445.4	444.9	444.3	443.8	443.9	444.0	444.1	444.2	444.2	444.3
165°	450.7	450.1	449.5	448.9	448.3	448.4	448.4	448.5	448.6	448.6	448.7
167.5°	454.5	453.9	453.2	452.6	452.0	452.0	452.0	452.0	452.0	452.0	452.2
170°	457.5	456.9	456.3	455.7	455.1	455.1	455.1	455.1	455.1	455.1	455.3
172.5°	459.6	459.0	458.4	457.8	457.2	457.1	457.0	456.9	456.8	456.8	457.0
175°	461.0	460.5	460.0	459.4	458.9	458.8	458.7	458.6	458.5	458.5	458.7
177.5°	462.0	461.4	460.8	460.2	459.6	459.5	459.4	459.3	459.2	459.2	459.4
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1044.3	1044.3	1044.3	1044.3
2.5°	1022.1	1025.1	1035.2	1047.4
5°	1001.8	1009.9	1024.1	1043.3
7.5°	979.6	991.7	1012.0	1036.2
10°	954.3	971.5	996.8	1027.1
12.5°	927.0	949.2	981.6	1013.0
15°	909.8	932.0	961.4	995.8
17.5°	876.4	902.7	933.0	981.6
20°	842.0	871.3	910.8	959.3
22.5°	815.6	847.0	884.5	936.1
25°	784.3	816.7	857.1	910.8
27.5°	750.9	783.3	828.8	885.5
30°	725.6	756.9	800.5	861.2
32.5°	695.2	725.6	771.1	834.9
35°	660.8	695.2	738.7	803.5
37.5°	634.5	665.9	711.4	773.1
40°	606.2	633.5	678.0	738.7
42.5°	575.8	606.2	644.6	705.3
45°	547.5	569.7	609.2	666.9
47.5°	517.1	542.4	572.8	617.3
50°	484.7	506.0	539.4	569.7
52.5°	453.4	470.6	498.9	522.2
55°	420.0	437.2	458.4	472.6
57.5°	388.6	400.7	414.9	424.0
60°	350.1	362.3	371.4	380.5
62.5°	315.7	324.8	329.9	335.0
65°	280.3	285.4	288.4	292.5
67.5°	241.9	246.9	247.9	254.0
70°	206.4	207.5	209.5	212.5
72.5°	173.0	175.1	174.1	176.1
75°	138.6	140.7	138.6	140.7
77.5°	105.2	107.3	107.3	110.3
80°	75.9	76.9	77.9	77.9
82.5°	49.6	52.6	50.6	51.6
85°	28.3	29.3	29.3	30.4
87.5°	13.2	14.2	13.2	15.2
90°	2.6	1.9	1.1	0.3
92.5°	6.5	7.0	7.4	7.9
95°	11.5	14.6	17.8	20.9
97.5°	31.6	33.7	35.9	38.0
100°	62.3	60.8	59.3	57.8
102.5°	83.3	82.4	81.4	80.4
105°	104.4	103.6	102.7	101.9
107.5°	126.9	126.2	125.5	124.8
110°	149.5	148.9	148.3	147.7



TEST NUMBER: P1010728

CATALOG NUMBER: S123DIP-B775D365UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	171.2	170.7	170.1	169.6
115°	192.5	192.0	191.6	191.1
117.5°	213.9	213.4	212.8	212.3
120°	233.9	233.2	232.5	231.8
122.5°	253.3	252.8	252.2	251.7
125°	271.3	270.6	270.0	269.4
127.5°	289.1	288.4	287.8	287.2
130°	305.5	304.8	304.2	303.6
132.5°	321.2	320.6	320.0	319.4
135°	336.8	336.3	335.9	335.4
137.5°	350.9	350.3	349.7	349.1
140°	364.1	363.7	363.2	362.8
142.5°	376.8	376.3	375.9	375.4
145°	388.7	388.2	387.6	387.1
147.5°	399.5	399.2	398.8	398.4
150°	409.3	409.0	408.8	408.6
152.5°	418.1	418.0	417.9	417.8
155°	425.9	426.1	426.2	426.4
157.5°	433.2	433.2	433.2	433.2
160°	439.1	439.2	439.3	439.4
162.5°	444.5	444.8	445.0	445.2
165°	448.9	449.2	449.4	449.6
167.5°	452.5	452.8	453.1	453.4
170°	455.6	455.9	456.2	456.5
172.5°	457.4	457.7	458.1	458.5
175°	459.1	459.4	459.8	460.2
177.5°	459.8	460.1	460.5	460.9
180°	460.2	460.2	460.2	460.2

(END OF REPORT)