

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: P1008162

Luminaire Tested: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008162
REPORT IS A COMBINATION OF REPORTS P984490 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

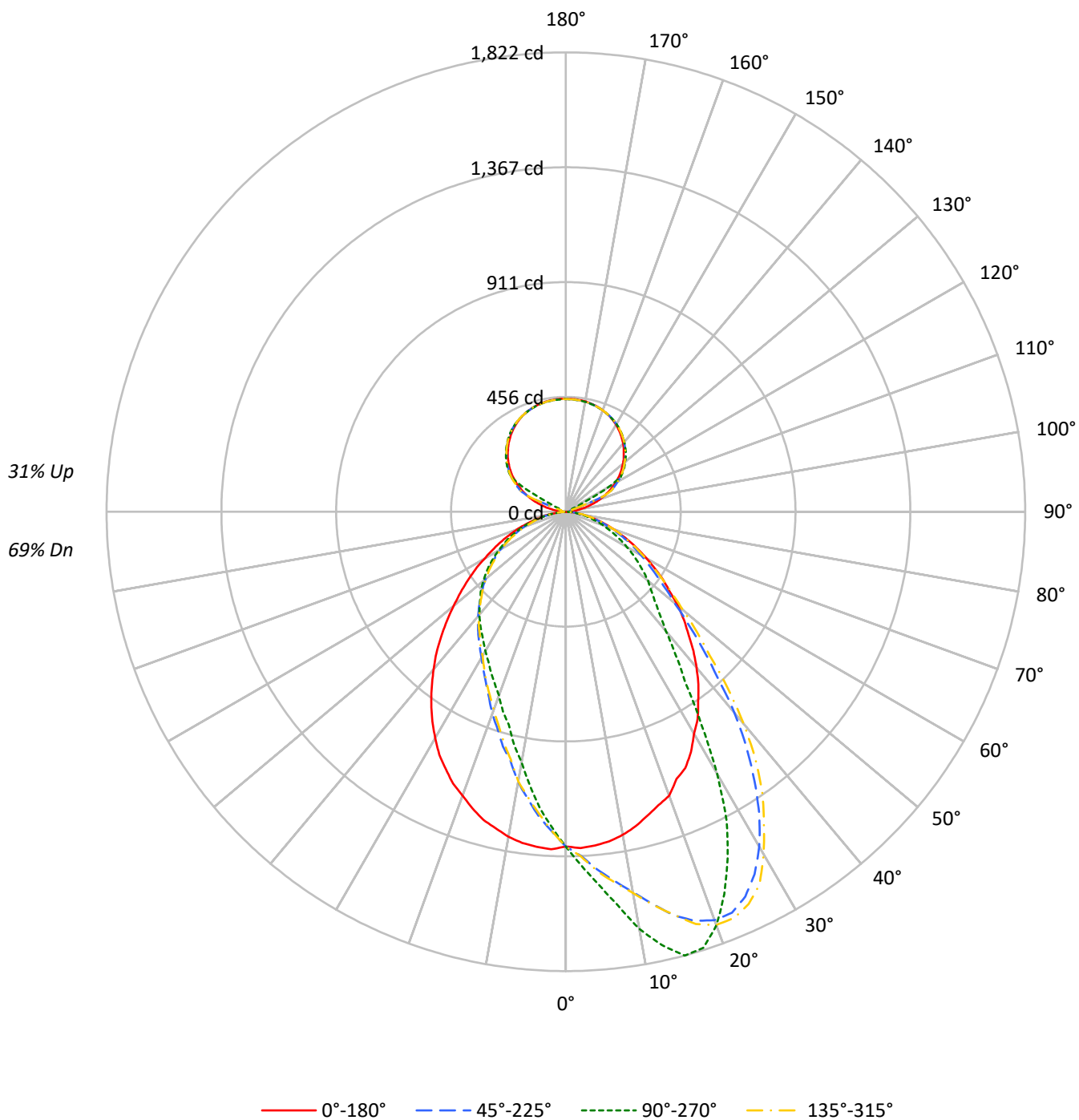
Lumens per Lamp: N/A
Luminaire Lumens: 4240.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1008162

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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	105	105	105	105	94	94	94	83	83	83	74	74	74	69		
1	103	99	95	91	97	93	90	87	83	81	79	74	73	71	66	65	64	60		
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	57	55	51		
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47	44		
4	79	69	61	55	75	65	58	53	59	53	49	53	49	45	48	44	41	38		
5	73	62	54	48	69	59	51	46	53	47	43	48	43	40	43	40	36	34		
6	68	56	48	42	64	53	46	40	48	42	38	44	39	35	40	36	32	30		
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29	27		
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	29	26	24		
9	55	43	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24	22		
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21015	21015	21015	21015
5°	21065	22407	21146	17826
10°	20820	24460	20951	14697
15°	20316	25800	20597	12380
20°	19999	24224	19999	10760
25°	19360	20811	19448	9622
30°	18312	16359	18661	8716
35°	17383	11312	17674	7975
40°	16315	8542	16501	7384
45°	14998	7019	15244	6746
50°	13860	6160	13884	6174
55°	12561	5249	12644	5555
60°	11179	4385	11334	4849
65°	9940	3566	10121	4141
70°	8705	2799	8926	3340
75°	7306	2031	7591	2421
80°	5700	1287	6108	1438
85°	3743	649	4040	480

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 21722 cd/sqm

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.0
10°-20°	368.0	8.7
20°-30°	534.1	12.6
30°-40°	563.1	13.3
40°-50°	498.3	11.8
50°-60°	397.9	9.4
60°-70°	270.2	6.4
70°-80°	138.3	3.3
80°-90°	33.5	0.8
90°-100°	14.7	0.3
100°-110°	54.9	1.3
110°-120°	145.7	3.4
120°-130°	241.7	5.7
130°-140°	256.7	6.1
140°-150°	238.6	5.6
150°-160°	191.8	4.5
160°-170°	123.6	2.9
170°-180°	42.5	1.0
0°-30°	1028.6	24.3
0°-40°	1591.7	37.5
0°-60°	2487.8	58.7
0°-90°	2929.8	69.1
90°-120°	215.4	5.1
90°-150°	952.3	22.5
90°-180°	1310.0	30.9
0°-180°	4240.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1328	1328	1328	1328	1328	
5°	1329	1483	1334	1180	1329	126
15°	1248	1822	1265	874	1248	352
25°	1121	1518	1126	702	1121	513
35°	915	826	931	583	915	573
45°	687	498	698	479	687	533
55°	471	350	474	370	471	421
65°	280	215	285	250	280	278
75°	131	106	136	126	131	140
85°	26	28	29	20	26	31
90°	0	9	0	9	0	3
95°	21	14	21	14	21	25
105°	98	25	98	25	98	105
115°	186	26	186	26	186	183
125°	263	276	263	276	263	234
135°	325	336	325	336	325	251
145°	377	383	377	383	377	236
155°	416	416	416	416	416	191
165°	438	437	438	437	438	124
175°	448	445	448	445	448	43
180°	447	447	447	447	447	

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1334.7	1337.8	1342.9	1343.9	1354.1	1362.3	1371.4	1371.4	1374.5	1373.5	1365.3
5°	1328.6	1337.8	1351.0	1362.3	1380.6	1388.8	1401.0	1410.2	1418.4	1424.5	1423.5
7.5°	1318.4	1334.7	1354.1	1375.5	1400.0	1414.3	1431.6	1448.0	1459.2	1469.4	1476.5
10°	1301.0	1328.6	1355.1	1383.7	1415.3	1434.7	1455.1	1476.5	1493.9	1513.3	1531.6
12.5°	1277.6	1317.4	1350.0	1387.8	1426.5	1448.0	1480.6	1496.9	1530.6	1579.6	1592.9
15°	1248.0	1302.0	1332.7	1380.6	1431.6	1449.0	1493.9	1520.4	1589.8	1620.4	1657.2
17.5°	1220.4	1280.6	1321.4	1376.5	1426.5	1460.2	1504.1	1558.2	1616.3	1660.2	1701.0
20°	1198.0	1256.1	1305.1	1366.3	1429.6	1472.5	1518.4	1583.7	1646.9	1691.8	1723.5
22.5°	1146.9	1221.4	1278.6	1346.9	1423.5	1482.7	1526.5	1598.0	1666.3	1693.9	1721.4
25°	1121.4	1185.7	1252.0	1329.6	1419.4	1489.8	1527.6	1607.2	1667.4	1677.6	1683.7
27.5°	1074.5	1146.9	1224.5	1313.3	1418.4	1477.6	1525.5	1598.0	1645.9	1638.8	1620.4
30°	1016.3	1105.1	1190.8	1286.7	1404.1	1468.4	1513.3	1579.6	1604.1	1567.4	1534.7
32.5°	973.5	1057.1	1152.0	1263.3	1387.8	1449.0	1492.9	1544.9	1550.0	1483.7	1428.6
35°	915.3	1008.2	1115.3	1232.7	1360.2	1415.3	1456.1	1487.8	1463.3	1370.4	1305.1
37.5°	863.3	955.1	1069.4	1188.8	1322.5	1376.5	1409.2	1414.3	1354.1	1272.5	1176.5
40°	806.1	901.0	1020.4	1145.9	1280.6	1327.6	1348.0	1332.7	1245.9	1151.0	1039.8
42.5°	749.0	842.9	971.4	1100.0	1227.6	1267.4	1275.5	1233.7	1127.6	1016.3	887.8
45°	686.7	784.7	913.3	1042.9	1166.3	1188.8	1189.8	1129.6	1004.1	887.8	768.4
47.5°	635.7	726.5	854.1	983.7	1087.8	1103.1	1096.9	1027.6	890.8	760.2	656.1
50°	579.6	666.3	792.9	920.4	1009.2	1013.3	998.0	899.0	765.3	645.9	563.3
52.5°	519.4	607.1	723.5	845.9	925.5	919.4	889.8	783.7	658.2	559.2	495.9
55°	471.4	549.0	658.2	777.6	833.7	816.3	783.7	675.5	576.5	492.9	437.8
57.5°	418.4	486.7	593.9	698.0	730.6	714.3	681.6	580.6	488.8	425.5	388.8
60°	368.4	430.6	524.5	611.2	636.7	619.4	581.6	490.8	424.5	371.4	343.9
62.5°	322.5	376.5	455.1	534.7	544.9	527.6	494.9	421.4	364.3	322.5	302.0
65°	279.6	330.6	393.9	454.1	463.3	444.9	411.2	358.2	310.2	283.7	264.3
67.5°	237.8	278.6	334.7	378.6	383.7	366.3	338.8	295.9	266.3	237.8	223.5
70°	201.0	231.6	275.5	311.2	313.3	296.9	282.7	243.9	221.4	201.0	189.8
72.5°	165.3	186.7	220.4	246.9	248.0	237.8	224.5	200.0	180.6	166.3	155.1
75°	130.6	149.0	169.4	192.9	191.8	183.7	173.5	158.2	141.8	132.7	127.6
77.5°	100.0	111.2	127.6	142.9	142.9	138.8	132.7	121.4	111.2	102.0	96.9
80°	71.4	78.6	91.8	96.9	99.0	98.0	92.9	84.7	80.6	73.5	71.4
82.5°	45.9	51.0	57.1	62.2	65.3	63.3	62.2	58.2	52.0	50.0	48.0
85°	26.5	28.6	31.6	34.7	35.7	34.7	36.7	33.7	30.6	30.6	29.6
87.5°	11.2	12.2	14.3	14.3	15.3	15.3	14.3	15.3	15.3	14.3	13.3
90°	0.3	1.1	1.9	2.7	3.5	3.9	4.2	4.8	5.3	5.9	6.5
92.5°	8.1	7.8	7.5	7.2	6.9	6.8	6.9	7.1	7.4	7.6	7.8
95°	21.0	18.6	16.2	13.9	11.5	10.3	10.6	11.1	11.6	12.1	12.6
97.5°	37.8	31.9	26.0	20.1	14.2	11.3	11.9	13.0	14.2	15.3	16.5
100°	57.2	47.4	37.5	27.7	17.8	12.9	13.5	14.7	16.0	17.2	18.4
102.5°	78.6	78.4	78.3	78.1	78.0	77.9	71.4	58.3	45.2	32.2	19.1
105°	98.3	100.5	102.6	104.8	106.9	108.0	98.2	78.6	58.9	39.3	19.7
107.5°	121.3	123.1	124.9	126.7	128.5	129.4	117.3	93.1	68.8	44.6	20.4
110°	143.3	144.8	146.3	147.8	149.3	150.1	139.7	118.9	98.2	77.4	56.6



TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	164.0	165.3	166.6	167.9	169.2	169.8	169.2	168.0	166.7	165.5	164.3
115°	185.9	187.1	188.3	189.6	190.8	191.4	192.3	194.1	195.9	197.7	199.5
117.5°	205.0	206.4	207.9	209.3	210.8	211.5	212.1	213.3	214.6	215.8	217.0
120°	226.4	227.5	228.5	229.6	230.7	231.2	231.8	233.1	234.4	235.7	237.0
122.5°	244.5	245.7	246.8	248.0	249.1	249.7	250.4	251.8	253.3	254.7	256.1
125°	262.9	263.8	264.8	265.7	266.6	267.1	267.8	269.2	270.5	271.9	273.3
127.5°	279.7	280.7	281.7	282.8	283.8	284.3	284.8	285.9	287.0	288.0	289.1
130°	295.6	296.7	297.9	299.0	300.1	300.7	301.1	301.9	302.7	303.5	304.3
132.5°	311.7	312.6	313.6	314.5	315.4	315.9	316.3	317.1	317.9	318.7	319.5
135°	325.3	326.5	327.6	328.8	329.9	330.5	330.8	331.5	332.1	332.8	333.4
137.5°	339.6	340.4	341.3	342.1	343.0	343.4	343.8	344.5	345.2	346.0	346.7
140°	353.5	354.1	354.6	355.2	355.7	356.0	356.4	357.2	358.0	358.8	359.6
142.5°	365.1	365.6	366.1	366.6	367.1	367.4	367.9	368.8	369.7	370.7	371.6
145°	377.4	377.3	377.3	377.2	377.1	377.1	377.7	378.9	380.2	381.4	382.6
147.5°	388.1	387.9	387.7	387.4	387.2	387.1	387.7	388.9	390.2	391.4	392.6
150°	398.4	397.9	397.4	396.9	396.4	396.1	396.7	397.8	399.0	400.1	401.3
152.5°	407.1	406.5	406.0	405.4	404.9	404.6	405.1	406.2	407.3	408.3	409.4
155°	415.6	414.9	414.3	413.6	412.9	412.6	413.0	413.9	414.8	415.6	416.5
157.5°	422.3	421.7	421.2	420.6	420.1	419.8	420.1	420.8	421.4	422.1	422.7
160°	428.2	427.8	427.3	426.9	426.4	426.2	426.4	426.9	427.3	427.8	428.2
162.5°	433.3	432.9	432.5	432.0	431.6	431.4	431.6	431.9	432.3	432.6	433.0
165°	437.9	437.5	437.0	436.6	436.1	435.9	436.0	436.2	436.5	436.7	436.9
167.5°	441.4	441.0	440.6	440.1	439.7	439.5	439.6	439.8	440.1	440.3	440.5
170°	444.3	443.9	443.5	443.0	442.6	442.4	442.5	442.6	442.7	442.9	443.0
172.5°	446.3	445.9	445.4	445.0	444.5	444.3	444.4	444.5	444.7	444.8	445.0
175°	447.9	447.4	446.9	446.4	445.9	445.6	445.7	445.8	446.0	446.1	446.3
177.5°	448.5	448.0	447.5	447.0	446.5	446.3	446.3	446.4	446.5	446.5	446.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1379.6	1380.6	1382.7	1392.9	1398.0	1399.0	1394.9	1404.1	1407.2	1404.1	1402.0
5°	1444.9	1451.0	1463.3	1476.5	1475.5	1476.5	1482.7	1488.8	1490.8	1482.7	1485.7
7.5°	1502.1	1514.3	1527.6	1548.0	1548.0	1558.2	1562.3	1567.4	1579.6	1573.5	1571.4
10°	1567.4	1583.7	1608.2	1640.8	1641.8	1652.1	1662.3	1678.6	1683.7	1679.6	1681.6
12.5°	1649.0	1680.6	1682.7	1718.4	1734.7	1736.7	1753.1	1750.0	1760.2	1760.2	1777.6
15°	1684.7	1733.7	1761.2	1795.9	1806.1	1793.9	1807.2	1821.4	1822.5	1822.5	1821.4
17.5°	1749.0	1768.4	1795.9	1814.3	1818.4	1818.4	1819.4	1825.5	1821.4	1813.3	1819.4
20°	1762.3	1770.4	1780.6	1778.6	1780.6	1770.4	1760.2	1750.0	1751.0	1745.9	1761.2
22.5°	1737.8	1735.7	1712.3	1696.9	1696.9	1676.5	1657.2	1648.0	1638.8	1641.8	1646.9
25°	1676.5	1644.9	1616.3	1593.9	1588.8	1556.1	1529.6	1521.4	1506.1	1518.4	1520.4
27.5°	1578.6	1542.9	1496.9	1477.6	1451.0	1437.8	1419.4	1394.9	1363.3	1381.6	1378.6
30°	1473.5	1420.4	1382.7	1335.7	1293.9	1290.8	1256.1	1215.3	1199.0	1199.0	1208.2
32.5°	1356.1	1285.7	1230.6	1164.3	1123.5	1106.1	1064.3	1023.5	1032.7	1002.0	1013.3
35°	1219.4	1126.5	1057.1	992.9	962.3	941.8	887.8	865.3	840.8	826.5	853.1
37.5°	1088.8	981.6	892.9	822.5	811.2	774.5	737.8	723.5	709.2	715.3	714.3
40°	929.6	834.7	755.1	700.0	680.6	663.3	638.8	621.4	612.2	617.4	618.4
42.5°	785.7	706.1	646.9	608.2	591.8	579.6	567.4	553.1	550.0	550.0	554.1
45°	674.5	609.2	569.4	537.8	528.6	519.4	510.2	504.1	502.0	498.0	501.0
47.5°	585.7	533.7	509.2	485.7	475.5	473.5	465.3	462.2	458.2	457.1	458.2
50°	511.2	478.6	456.1	442.9	435.7	432.7	428.6	422.5	420.4	425.5	423.5
52.5°	459.2	428.6	416.3	403.1	399.0	394.9	388.8	389.8	388.8	386.7	386.7
55°	407.1	387.8	375.5	365.3	364.3	360.2	355.1	353.1	352.0	350.0	353.1
57.5°	365.3	350.0	338.8	329.6	325.5	325.5	320.4	316.3	316.3	315.3	316.3
60°	323.5	308.2	301.0	291.8	288.8	287.8	284.7	282.7	279.6	279.6	279.6
62.5°	284.7	272.5	264.3	256.1	257.1	252.0	248.0	245.9	245.9	246.9	246.9
65°	248.0	239.8	229.6	222.5	220.4	219.4	217.3	216.3	213.3	215.3	215.3
67.5°	214.3	203.1	196.9	193.9	190.8	189.8	187.8	185.7	184.7	183.7	185.7
70°	180.6	171.4	166.3	164.3	161.2	160.2	159.2	156.1	157.1	158.2	159.2
72.5°	150.0	141.8	140.8	134.7	134.7	134.7	130.6	132.7	131.6	129.6	131.6
75°	118.4	114.3	112.2	109.2	110.2	109.2	108.2	105.1	105.1	106.1	107.1
77.5°	93.9	89.8	88.8	85.7	83.7	85.7	83.7	82.7	82.7	83.7	83.7
80°	69.4	67.3	64.3	64.3	64.3	63.3	63.3	63.3	62.2	61.2	62.2
82.5°	45.9	45.9	44.9	43.9	44.9	42.9	43.9	43.9	43.9	43.9	43.9
85°	29.6	28.6	28.6	27.6	27.6	27.6	28.6	26.5	26.5	27.6	27.6
87.5°	13.3	13.3	13.3	14.3	13.3	13.3	13.3	14.3	13.3	13.3	13.3
90°	6.9	7.2	7.6	7.9	8.1	8.2	8.3	8.4	8.6	8.7	8.6
92.5°	7.9	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.6
95°	13.0	13.3	13.7	14.0	14.2	14.2	14.1	14.0	14.0	13.9	14.0
97.5°	16.7	16.9	17.2	17.4	17.5	17.5	17.6	17.7	17.7	17.8	17.7
100°	19.0	19.6	20.1	20.7	21.0	21.1	21.2	21.4	21.5	21.7	21.5
102.5°	19.9	20.7	21.4	22.2	22.6	22.7	22.9	23.2	23.4	23.6	23.4
105°	20.5	21.3	22.1	22.9	23.3	23.4	23.7	24.0	24.3	24.6	24.3
107.5°	21.2	22.0	22.7	23.5	23.9	24.0	24.3	24.6	24.9	25.2	24.9
110°	49.4	42.2	35.1	27.9	24.3	24.4	24.7	25.0	25.2	25.5	25.2

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	133.3	102.3	71.4	40.4	24.9	25.0	25.2	25.5	25.7	25.9	25.7
115°	166.2	133.0	99.7	66.4	49.8	47.2	42.0	36.9	31.7	26.5	31.7
117.5°	206.7	196.4	186.1	175.8	170.7	161.3	142.5	123.6	104.8	86.0	104.8
120°	237.9	238.7	239.6	240.5	240.9	236.1	226.4	216.7	207.0	197.3	207.0
122.5°	256.5	257.0	257.4	257.9	258.1	258.1	258.2	258.3	258.3	258.4	258.3
125°	273.8	274.3	274.8	275.3	275.5	275.6	275.8	276.1	276.3	276.5	276.3
127.5°	289.8	290.5	291.2	291.9	292.3	292.3	292.4	292.5	292.6	292.7	292.6
130°	305.1	305.9	306.7	307.5	307.9	307.9	307.8	307.7	307.6	307.5	307.6
132.5°	320.1	320.8	321.4	322.1	322.4	322.4	322.3	322.2	322.2	322.1	322.2
135°	334.1	334.8	335.5	336.2	336.6	336.5	336.4	336.3	336.1	336.0	336.1
137.5°	347.4	348.1	348.8	349.5	349.9	349.8	349.6	349.3	349.1	348.9	349.1
140°	360.2	360.9	361.5	362.2	362.5	362.3	362.0	361.6	361.3	360.9	361.3
142.5°	372.2	372.8	373.3	373.9	374.2	374.0	373.6	373.3	372.9	372.5	372.9
145°	383.1	383.6	384.1	384.6	384.8	384.6	384.3	383.9	383.6	383.2	383.6
147.5°	393.0	393.3	393.7	394.0	394.2	394.1	393.8	393.5	393.2	392.9	393.2
150°	401.7	402.2	402.6	403.1	403.3	403.1	402.7	402.4	402.0	401.6	402.0
152.5°	409.8	410.2	410.7	411.1	411.3	411.1	410.6	410.1	409.6	409.1	409.6
155°	416.9	417.4	417.8	418.3	418.5	418.2	417.6	417.1	416.5	415.9	416.5
157.5°	423.2	423.7	424.2	424.7	424.9	424.6	424.0	423.5	422.9	422.3	422.9
160°	428.6	429.0	429.5	429.9	430.1	429.8	429.3	428.8	428.3	427.8	428.3
162.5°	433.5	434.0	434.5	435.0	435.3	435.0	434.3	433.7	433.0	432.4	433.0
165°	437.4	437.9	438.4	438.9	439.2	438.9	438.4	437.9	437.4	436.9	437.4
167.5°	441.0	441.5	442.0	442.5	442.7	442.4	441.7	441.1	440.4	439.8	440.4
170°	443.5	444.0	444.5	445.0	445.3	445.0	444.3	443.7	443.0	442.4	443.0
172.5°	445.5	446.0	446.5	447.0	447.2	446.9	446.2	445.6	444.9	444.3	444.9
175°	446.8	447.3	447.8	448.3	448.5	448.1	447.4	446.7	446.0	445.3	446.0
177.5°	447.1	447.6	448.1	448.6	448.9	448.6	447.9	447.3	446.6	446.0	446.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1407.2	1400.0	1393.9	1394.9	1400.0	1395.9	1385.7	1372.5	1367.4	1361.2	1367.4
5°	1491.8	1485.7	1473.5	1474.5	1471.4	1467.4	1451.0	1430.6	1430.6	1414.3	1412.3
7.5°	1575.5	1566.3	1558.2	1556.1	1544.9	1536.7	1522.5	1493.9	1482.7	1463.3	1452.0
10°	1669.4	1662.3	1653.1	1641.8	1635.7	1621.4	1598.0	1556.1	1535.7	1509.2	1489.8
12.5°	1764.3	1763.3	1742.9	1720.4	1719.4	1696.9	1680.6	1624.5	1596.9	1561.2	1515.3
15°	1824.5	1819.4	1808.2	1796.9	1800.0	1775.5	1738.8	1672.5	1654.1	1611.2	1562.3
17.5°	1823.5	1823.5	1820.4	1818.4	1815.3	1808.2	1787.8	1743.9	1714.3	1660.2	1614.3
20°	1765.3	1778.6	1781.6	1780.6	1790.8	1795.9	1794.9	1767.4	1743.9	1695.9	1649.0
22.5°	1649.0	1679.6	1692.9	1701.0	1722.5	1733.7	1760.2	1750.0	1743.9	1708.2	1668.4
25°	1540.8	1551.0	1590.8	1592.9	1622.5	1650.0	1676.5	1693.9	1716.3	1703.1	1669.4
27.5°	1401.0	1424.5	1453.1	1474.5	1480.6	1536.7	1580.6	1613.3	1664.3	1668.4	1657.2
30°	1242.9	1254.1	1301.0	1329.6	1362.3	1403.1	1466.3	1522.5	1568.4	1610.2	1624.5
32.5°	1050.0	1095.9	1123.5	1158.2	1186.7	1259.2	1336.7	1409.2	1462.3	1532.7	1563.3
35°	873.5	909.2	956.1	970.4	1022.5	1083.7	1184.7	1277.6	1358.2	1429.6	1491.8
37.5°	727.6	756.1	806.1	828.6	859.2	937.8	1022.5	1137.8	1234.7	1322.5	1400.0
40°	627.6	649.0	686.7	693.9	719.4	790.8	859.2	967.4	1095.9	1214.3	1299.0
42.5°	559.2	569.4	594.9	604.1	620.4	668.4	729.6	831.6	951.0	1073.5	1192.9
45°	510.2	517.4	532.7	540.8	561.2	582.7	632.7	714.3	808.2	931.6	1060.2
47.5°	466.3	475.5	481.6	486.7	498.0	521.4	554.1	614.3	704.1	817.4	941.8
50°	429.6	432.7	443.9	444.9	452.0	467.3	498.0	534.7	606.1	698.0	818.4
52.5°	392.9	395.9	403.1	410.2	413.3	425.5	445.9	476.5	529.6	602.0	709.2
55°	356.1	360.2	367.3	372.5	375.5	385.7	398.0	427.6	469.4	520.4	608.2
57.5°	319.4	328.6	330.6	333.7	338.8	350.0	361.2	378.6	411.2	458.2	522.5
60°	284.7	287.8	294.9	298.0	303.1	309.2	323.5	336.7	360.2	396.9	455.1
62.5°	249.0	256.1	259.2	262.2	266.3	273.5	282.7	296.9	317.3	346.9	392.9
65°	218.4	219.4	225.5	229.6	233.7	238.8	248.0	261.2	273.5	301.0	334.7
67.5°	188.8	190.8	192.9	196.9	202.0	207.1	215.3	222.5	237.8	256.1	282.7
70°	160.2	160.2	165.3	168.4	167.3	173.5	179.6	187.8	199.0	216.3	237.8
72.5°	134.7	133.7	137.8	138.8	140.8	144.9	149.0	157.1	163.3	176.5	192.9
75°	107.1	109.2	111.2	111.2	114.3	117.3	121.4	125.5	132.7	140.8	153.1
77.5°	84.7	84.7	86.7	87.8	90.8	89.8	93.9	98.0	103.1	110.2	119.4
80°	62.2	64.3	64.3	64.3	65.3	66.3	70.4	73.5	76.5	81.6	85.7
82.5°	43.9	43.9	45.9	45.9	45.9	48.0	48.0	49.0	51.0	54.1	57.1
85°	27.6	27.6	27.6	28.6	27.6	28.6	30.6	29.6	30.6	32.7	32.7
87.5°	13.3	13.3	13.3	13.3	13.3	14.3	13.3	14.3	15.3	15.3	15.3
90°	8.4	8.3	8.2	8.1	7.9	7.6	7.2	6.9	6.5	5.9	5.3
92.5°	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4
95°	14.0	14.1	14.2	14.2	14.0	13.7	13.3	13.0	12.6	12.1	11.6
97.5°	17.7	17.6	17.5	17.5	17.4	17.2	16.9	16.7	16.5	15.3	14.2
100°	21.4	21.2	21.1	21.0	20.7	20.1	19.6	19.0	18.4	17.2	16.0
102.5°	23.2	22.9	22.7	22.6	22.2	21.4	20.7	19.9	19.1	32.2	45.2
105°	24.0	23.7	23.4	23.3	22.9	22.1	21.3	20.5	19.7	39.3	58.9
107.5°	24.6	24.3	24.0	23.9	23.5	22.7	22.0	21.2	20.4	44.6	68.8
110°	25.0	24.7	24.4	24.3	27.9	35.1	42.2	49.4	56.6	77.4	98.2

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	25.5	25.2	25.0	24.9	40.4	71.4	102.3	133.3	164.3	165.5	166.7
115°	36.9	42.0	47.2	49.8	66.4	99.7	133.0	166.2	199.5	197.7	195.9
117.5°	123.6	142.5	161.3	170.7	175.8	186.1	196.4	206.7	217.0	215.8	214.6
120°	216.7	226.4	236.1	240.9	240.5	239.6	238.7	237.9	237.0	235.7	234.4
122.5°	258.3	258.2	258.1	258.1	257.9	257.4	257.0	256.5	256.1	254.7	253.3
125°	276.1	275.8	275.6	275.5	275.3	274.8	274.3	273.8	273.3	271.9	270.5
127.5°	292.5	292.4	292.3	292.3	291.9	291.2	290.5	289.8	289.1	288.0	287.0
130°	307.7	307.8	307.9	307.9	307.5	306.7	305.9	305.1	304.3	303.5	302.7
132.5°	322.2	322.3	322.4	322.4	322.1	321.4	320.8	320.1	319.5	318.7	317.9
135°	336.3	336.4	336.5	336.6	336.2	335.5	334.8	334.1	333.4	332.8	332.1
137.5°	349.3	349.6	349.8	349.9	349.5	348.8	348.1	347.4	346.7	346.0	345.2
140°	361.6	362.0	362.3	362.5	362.2	361.5	360.9	360.2	359.6	358.8	358.0
142.5°	373.3	373.6	374.0	374.2	373.9	373.3	372.8	372.2	371.6	370.7	369.7
145°	383.9	384.3	384.6	384.8	384.6	384.1	383.6	383.1	382.6	381.4	380.2
147.5°	393.5	393.8	394.1	394.2	394.0	393.7	393.3	393.0	392.6	391.4	390.2
150°	402.4	402.7	403.1	403.3	403.1	402.6	402.2	401.7	401.3	400.1	399.0
152.5°	410.1	410.6	411.1	411.3	411.1	410.7	410.2	409.8	409.4	408.3	407.3
155°	417.1	417.6	418.2	418.5	418.3	417.8	417.4	416.9	416.5	415.6	414.8
157.5°	423.5	424.0	424.6	424.9	424.7	424.2	423.7	423.2	422.7	422.1	421.4
160°	428.8	429.3	429.8	430.1	429.9	429.5	429.0	428.6	428.2	427.8	427.3
162.5°	433.7	434.3	435.0	435.3	435.0	434.5	434.0	433.5	433.0	432.6	432.3
165°	437.9	438.4	438.9	439.2	438.9	438.4	437.9	437.4	436.9	436.7	436.5
167.5°	441.1	441.7	442.4	442.7	442.5	442.0	441.5	441.0	440.5	440.3	440.1
170°	443.7	444.3	445.0	445.3	445.0	444.5	444.0	443.5	443.0	442.9	442.7
172.5°	445.6	446.2	446.9	447.2	447.0	446.5	446.0	445.5	445.0	444.8	444.7
175°	446.7	447.4	448.1	448.5	448.3	447.8	447.3	446.8	446.3	446.1	446.0
177.5°	447.3	447.9	448.6	448.9	448.6	448.1	447.6	447.1	446.6	446.5	446.5
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1362.3	1357.2	1354.1	1356.1	1350.0	1334.7	1334.7	1339.8	1333.7	1327.6	1318.4
5°	1400.0	1389.8	1383.7	1382.7	1368.4	1343.9	1338.8	1333.7	1320.4	1306.1	1290.8
7.5°	1436.7	1418.4	1408.2	1401.0	1380.6	1349.0	1335.7	1324.5	1303.1	1281.6	1262.3
10°	1467.4	1440.8	1428.6	1417.4	1390.8	1351.0	1329.6	1309.2	1281.6	1254.1	1229.6
12.5°	1491.8	1461.2	1445.9	1429.6	1396.9	1344.9	1318.4	1285.7	1258.2	1221.4	1196.9
15°	1532.7	1469.4	1455.1	1439.8	1406.1	1334.7	1302.0	1265.3	1227.6	1178.6	1152.0
17.5°	1565.3	1480.6	1479.6	1446.9	1403.1	1330.6	1280.6	1232.7	1191.8	1142.9	1101.0
20°	1584.7	1498.0	1481.6	1448.0	1392.9	1303.1	1251.0	1198.0	1154.1	1094.9	1053.1
22.5°	1601.0	1522.5	1479.6	1438.8	1371.4	1293.9	1217.4	1167.4	1107.1	1042.9	1003.1
25°	1607.2	1527.6	1482.7	1435.7	1356.1	1267.4	1180.6	1126.5	1059.2	1001.0	946.9
27.5°	1608.2	1526.5	1471.4	1422.5	1334.7	1232.7	1143.9	1086.7	1012.3	944.9	890.8
30°	1598.0	1515.3	1465.3	1412.3	1314.3	1201.0	1099.0	1035.7	956.1	888.8	832.7
32.5°	1567.4	1492.9	1452.0	1393.9	1287.8	1157.2	1056.1	985.7	902.0	835.7	781.6
35°	1516.3	1465.3	1420.4	1366.3	1253.1	1116.3	1013.3	930.6	845.9	782.7	731.6
37.5°	1453.1	1425.5	1383.7	1330.6	1213.3	1079.6	965.3	873.5	788.8	727.6	677.6
40°	1367.4	1374.5	1333.7	1285.7	1166.3	1029.6	903.1	815.3	735.7	678.6	629.6
42.5°	1274.5	1304.1	1280.6	1234.7	1114.3	974.5	857.1	760.2	682.7	623.5	582.7
45°	1174.5	1225.5	1211.2	1177.6	1060.2	916.3	791.8	698.0	629.6	572.5	536.7
47.5°	1065.3	1137.8	1137.8	1113.3	1000.0	858.2	735.7	639.8	572.5	531.6	496.9
50°	954.1	1035.7	1049.0	1032.7	932.7	791.8	667.4	580.6	522.5	482.7	457.1
52.5°	837.8	932.7	957.1	949.0	861.2	728.6	611.2	526.5	473.5	438.8	416.3
55°	726.5	836.7	863.3	866.3	784.7	659.2	549.0	474.5	423.5	400.0	380.6
57.5°	621.4	727.6	757.1	762.2	707.1	595.9	490.8	425.5	379.6	360.2	344.9
60°	531.6	620.4	659.2	670.4	622.5	522.5	436.7	373.5	338.8	320.4	306.1
62.5°	458.2	529.6	570.4	573.5	552.0	458.2	380.6	327.6	298.0	281.6	274.5
65°	386.7	451.0	475.5	487.8	470.4	396.9	328.6	284.7	261.2	246.9	239.8
67.5°	329.6	370.4	390.8	407.1	389.8	334.7	279.6	243.9	226.5	212.2	208.2
70°	270.4	304.1	319.4	335.7	320.4	278.6	238.8	206.1	190.8	179.6	174.5
72.5°	216.3	242.9	257.1	267.3	258.2	223.5	190.8	168.4	157.1	149.0	145.9
75°	171.4	189.8	198.0	205.1	201.0	174.5	154.1	135.7	125.5	118.4	116.3
77.5°	130.6	143.9	153.1	155.1	150.0	132.7	115.3	104.1	95.9	91.8	89.8
80°	92.9	101.0	106.1	109.2	104.1	96.9	84.7	76.5	69.4	64.3	63.3
82.5°	62.2	66.3	70.4	69.4	67.3	61.2	54.1	50.0	46.9	42.9	42.9
85°	35.7	36.7	38.8	39.8	38.8	34.7	30.6	28.6	26.5	23.5	23.5
87.5°	15.3	16.3	16.3	17.3	15.3	15.3	13.3	11.2	11.2	10.2	9.2
90°	4.8	4.2	3.9	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.1	6.9	6.8	6.9	7.2	7.5	7.8	8.1	7.8	7.5	7.2
95°	11.1	10.6	10.3	11.5	13.9	16.2	18.6	21.0	18.6	16.2	13.9
97.5°	13.0	11.9	11.3	14.2	20.1	26.0	31.9	37.8	31.9	26.0	20.1
100°	14.7	13.5	12.9	17.8	27.7	37.5	47.4	57.2	47.4	37.5	27.7
102.5°	58.3	71.4	77.9	78.0	78.1	78.3	78.4	78.6	78.4	78.3	78.1
105°	78.6	98.2	108.0	106.9	104.8	102.6	100.5	98.3	100.5	102.6	104.8
107.5°	93.1	117.3	129.4	128.5	126.7	124.9	123.1	121.3	123.1	124.9	126.7
110°	118.9	139.7	150.1	149.3	147.8	146.3	144.8	143.3	144.8	146.3	147.8

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	168.0	169.2	169.8	169.2	167.9	166.6	165.3	164.0	165.3	166.6	167.9
115°	194.1	192.3	191.4	190.8	189.6	188.3	187.1	185.9	187.1	188.3	189.6
117.5°	213.3	212.1	211.5	210.8	209.3	207.9	206.4	205.0	206.4	207.9	209.3
120°	233.1	231.8	231.2	230.7	229.6	228.5	227.5	226.4	227.5	228.5	229.6
122.5°	251.8	250.4	249.7	249.1	248.0	246.8	245.7	244.5	245.7	246.8	248.0
125°	269.2	267.8	267.1	266.6	265.7	264.8	263.8	262.9	263.8	264.8	265.7
127.5°	285.9	284.8	284.3	283.8	282.8	281.7	280.7	279.7	280.7	281.7	282.8
130°	301.9	301.1	300.7	300.1	299.0	297.9	296.7	295.6	296.7	297.9	299.0
132.5°	317.1	316.3	315.9	315.4	314.5	313.6	312.6	311.7	312.6	313.6	314.5
135°	331.5	330.8	330.5	329.9	328.8	327.6	326.5	325.3	326.5	327.6	328.8
137.5°	344.5	343.8	343.4	343.0	342.1	341.3	340.4	339.6	340.4	341.3	342.1
140°	357.2	356.4	356.0	355.7	355.2	354.6	354.1	353.5	354.1	354.6	355.2
142.5°	368.8	367.9	367.4	367.1	366.6	366.1	365.6	365.1	365.6	366.1	366.6
145°	378.9	377.7	377.1	377.1	377.2	377.3	377.3	377.4	377.3	377.3	377.2
147.5°	388.9	387.7	387.1	387.2	387.4	387.7	387.9	388.1	387.9	387.7	387.4
150°	397.8	396.7	396.1	396.4	396.9	397.4	397.9	398.4	397.9	397.4	396.9
152.5°	406.2	405.1	404.6	404.9	405.4	406.0	406.5	407.1	406.5	406.0	405.4
155°	413.9	413.0	412.6	412.9	413.6	414.3	414.9	415.6	414.9	414.3	413.6
157.5°	420.8	420.1	419.8	420.1	420.6	421.2	421.7	422.3	421.7	421.2	420.6
160°	426.9	426.4	426.2	426.4	426.9	427.3	427.8	428.2	427.8	427.3	426.9
162.5°	431.9	431.6	431.4	431.6	432.0	432.5	432.9	433.3	432.9	432.5	432.0
165°	436.2	436.0	435.9	436.1	436.6	437.0	437.5	437.9	437.5	437.0	436.6
167.5°	439.8	439.6	439.5	439.7	440.1	440.6	441.0	441.4	441.0	440.6	440.1
170°	442.6	442.5	442.4	442.6	443.0	443.5	443.9	444.3	443.9	443.5	443.0
172.5°	444.5	444.4	444.3	444.5	445.0	445.4	445.9	446.3	445.9	445.4	445.0
175°	445.8	445.7	445.6	445.9	446.4	446.9	447.4	447.9	447.4	446.9	446.4
177.5°	446.4	446.3	446.3	446.5	447.0	447.5	448.0	448.5	448.0	447.5	447.0
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1313.3	1318.4	1317.4	1307.2	1295.9	1286.7	1269.4	1271.4	1265.3	1266.3	1272.5
5°	1280.6	1280.6	1276.5	1262.3	1243.9	1233.7	1214.3	1209.2	1196.9	1195.9	1194.9
7.5°	1245.9	1240.8	1235.7	1215.3	1192.9	1176.5	1150.0	1143.9	1131.6	1123.5	1119.4
10°	1205.1	1198.0	1187.8	1164.3	1136.7	1116.3	1088.8	1080.6	1057.1	1046.9	1040.8
12.5°	1160.2	1156.1	1139.8	1120.4	1075.5	1053.1	1013.3	1021.4	998.0	977.6	974.5
15°	1115.3	1100.0	1090.8	1059.2	1005.1	994.9	963.3	946.9	925.5	909.2	909.2
17.5°	1071.4	1048.0	1027.6	993.9	954.1	925.5	902.0	893.9	867.4	851.0	848.0
20°	1013.3	986.7	981.6	933.7	906.1	874.5	852.0	831.6	812.2	805.1	800.0
22.5°	958.2	927.6	919.4	878.6	851.0	819.4	796.9	782.7	768.4	763.3	754.1
25°	899.0	880.6	868.4	824.5	793.9	764.3	749.0	738.8	725.5	724.5	718.4
27.5°	841.8	824.5	812.2	770.4	748.0	720.4	708.2	696.9	689.8	686.7	683.7
30°	792.9	773.5	759.2	728.6	701.0	678.6	668.4	661.2	657.1	652.0	651.0
32.5°	738.8	727.6	708.2	684.7	663.3	641.8	635.7	630.6	624.5	622.5	621.4
35°	692.9	677.6	665.3	638.8	629.6	611.2	604.1	600.0	591.8	589.8	587.8
37.5°	648.0	633.7	620.4	604.1	586.7	576.5	572.5	566.3	562.2	563.3	561.2
40°	603.1	591.8	581.6	564.3	554.1	549.0	540.8	534.7	532.7	533.7	532.7
42.5°	559.2	549.0	542.9	529.6	519.4	514.3	509.2	503.1	506.1	506.1	509.2
45°	519.4	510.2	506.1	495.9	489.8	481.6	476.5	475.5	479.6	478.6	478.6
47.5°	478.6	475.5	470.4	461.2	453.1	448.0	446.9	446.9	451.0	453.1	452.0
50°	446.9	440.8	434.7	427.6	421.4	419.4	416.3	418.4	422.5	422.5	424.5
52.5°	407.1	403.1	401.0	394.9	390.8	390.8	390.8	391.8	394.9	398.0	396.9
55°	372.5	369.4	367.3	364.3	359.2	360.2	359.2	361.2	364.3	367.3	369.4
57.5°	335.7	334.7	332.7	327.6	327.6	326.5	329.6	330.6	335.7	337.8	340.8
60°	303.1	300.0	300.0	295.9	295.9	295.9	299.0	302.0	306.1	307.1	309.2
62.5°	268.4	268.4	267.3	264.3	264.3	267.3	268.4	272.5	274.5	274.5	277.6
65°	235.7	234.7	233.7	234.7	235.7	235.7	238.8	240.8	242.9	243.9	244.9
67.5°	203.1	202.0	204.1	203.1	205.1	209.2	208.2	211.2	214.3	214.3	215.3
70°	172.5	174.5	173.5	175.5	174.5	176.5	179.6	180.6	180.6	181.6	184.7
72.5°	143.9	143.9	143.9	142.9	143.9	145.9	148.0	149.0	151.0	152.0	155.1
75°	116.3	116.3	114.3	116.3	116.3	118.4	120.4	120.4	120.4	122.4	125.5
77.5°	87.8	88.8	87.8	89.8	89.8	90.8	92.9	91.8	93.9	94.9	95.9
80°	64.3	63.3	63.3	63.3	64.3	64.3	66.3	67.3	67.3	70.4	68.4
82.5°	40.8	41.8	40.8	41.8	41.8	42.9	41.8	42.9	43.9	45.9	44.9
85°	23.5	22.4	22.4	23.5	22.4	22.4	23.5	22.4	23.5	22.4	23.5
87.5°	9.2	8.2	8.2	8.2	8.2	7.1	7.1	6.1	6.1	6.1	5.1
90°	3.5	3.9	4.2	4.8	5.3	5.9	6.5	6.9	7.2	7.6	7.9
92.5°	6.9	6.8	6.9	7.1	7.4	7.6	7.8	7.9	8.1	8.2	8.3
95°	11.5	10.3	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0
97.5°	14.2	11.3	11.9	13.0	14.2	15.3	16.5	16.7	16.9	17.2	17.4
100°	17.8	12.9	13.5	14.7	16.0	17.2	18.4	19.0	19.6	20.1	20.7
102.5°	78.0	77.9	71.4	58.3	45.2	32.2	19.1	19.9	20.7	21.4	22.2
105°	106.9	108.0	98.2	78.6	58.9	39.3	19.7	20.5	21.3	22.1	22.9
107.5°	128.5	129.4	117.3	93.1	68.8	44.6	20.4	21.2	22.0	22.7	23.5
110°	149.3	150.1	139.7	118.9	98.2	77.4	56.6	49.4	42.2	35.1	27.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	169.2	169.8	169.2	168.0	166.7	165.5	164.3	133.3	102.3	71.4	40.4
115°	190.8	191.4	192.3	194.1	195.9	197.7	199.5	166.2	133.0	99.7	66.4
117.5°	210.8	211.5	212.1	213.3	214.6	215.8	217.0	206.7	196.4	186.1	175.8
120°	230.7	231.2	231.8	233.1	234.4	235.7	237.0	237.9	238.7	239.6	240.5
122.5°	249.1	249.7	250.4	251.8	253.3	254.7	256.1	256.5	257.0	257.4	257.9
125°	266.6	267.1	267.8	269.2	270.5	271.9	273.3	273.8	274.3	274.8	275.3
127.5°	283.8	284.3	284.8	285.9	287.0	288.0	289.1	289.8	290.5	291.2	291.9
130°	300.1	300.7	301.1	301.9	302.7	303.5	304.3	305.1	305.9	306.7	307.5
132.5°	315.4	315.9	316.3	317.1	317.9	318.7	319.5	320.1	320.8	321.4	322.1
135°	329.9	330.5	330.8	331.5	332.1	332.8	333.4	334.1	334.8	335.5	336.2
137.5°	343.0	343.4	343.8	344.5	345.2	346.0	346.7	347.4	348.1	348.8	349.5
140°	355.7	356.0	356.4	357.2	358.0	358.8	359.6	360.2	360.9	361.5	362.2
142.5°	367.1	367.4	367.9	368.8	369.7	370.7	371.6	372.2	372.8	373.3	373.9
145°	377.1	377.1	377.7	378.9	380.2	381.4	382.6	383.1	383.6	384.1	384.6
147.5°	387.2	387.1	387.7	388.9	390.2	391.4	392.6	393.0	393.3	393.7	394.0
150°	396.4	396.1	396.7	397.8	399.0	400.1	401.3	401.7	402.2	402.6	403.1
152.5°	404.9	404.6	405.1	406.2	407.3	408.3	409.4	409.8	410.2	410.7	411.1
155°	412.9	412.6	413.0	413.9	414.8	415.6	416.5	416.9	417.4	417.8	418.3
157.5°	420.1	419.8	420.1	420.8	421.4	422.1	422.7	423.2	423.7	424.2	424.7
160°	426.4	426.2	426.4	426.9	427.3	427.8	428.2	428.6	429.0	429.5	429.9
162.5°	431.6	431.4	431.6	431.9	432.3	432.6	433.0	433.5	434.0	434.5	435.0
165°	436.1	435.9	436.0	436.2	436.5	436.7	436.9	437.4	437.9	438.4	438.9
167.5°	439.7	439.5	439.6	439.8	440.1	440.3	440.5	441.0	441.5	442.0	442.5
170°	442.6	442.4	442.5	442.6	442.7	442.9	443.0	443.5	444.0	444.5	445.0
172.5°	444.5	444.3	444.4	444.5	444.7	444.8	445.0	445.5	446.0	446.5	447.0
175°	445.9	445.6	445.7	445.8	446.0	446.1	446.3	446.8	447.3	447.8	448.3
177.5°	446.5	446.3	446.3	446.4	446.5	446.5	446.6	447.1	447.6	448.1	448.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1265.3	1268.4	1261.2	1259.2	1261.2	1254.1	1256.1	1258.2	1258.2	1261.2	1263.3
5°	1191.8	1187.8	1180.6	1178.6	1176.5	1179.6	1177.6	1180.6	1181.6	1188.8	1189.8
7.5°	1119.4	1113.3	1107.1	1101.0	1099.0	1093.9	1099.0	1099.0	1106.1	1104.1	1109.2
10°	1033.7	1032.7	1024.5	1021.4	1017.4	1009.2	1020.4	1017.4	1022.5	1031.6	1033.7
12.5°	970.4	959.2	964.3	950.0	955.1	946.9	948.0	948.0	956.1	957.1	955.1
15°	910.2	901.0	887.8	881.6	878.6	874.5	887.8	888.8	882.7	896.9	891.8
17.5°	849.0	849.0	836.7	833.7	825.5	829.6	827.6	828.6	826.5	836.7	841.8
20°	795.9	790.8	786.7	787.8	777.6	775.5	773.5	775.5	782.7	789.8	791.8
22.5°	753.1	750.0	739.8	741.8	733.7	736.7	734.7	739.8	740.8	740.8	748.0
25°	712.2	708.2	709.2	705.1	702.0	702.0	699.0	702.0	706.1	708.2	709.2
27.5°	681.6	678.6	673.5	670.4	672.5	667.4	671.4	674.5	674.5	672.5	674.5
30°	644.9	646.9	646.9	636.7	640.8	638.8	641.8	643.9	643.9	644.9	642.9
32.5°	620.4	614.3	613.3	612.2	612.2	608.2	608.2	611.2	612.2	613.3	616.3
35°	587.8	587.8	582.7	585.7	581.6	582.7	581.6	582.7	584.7	581.6	584.7
37.5°	558.2	559.2	557.1	559.2	560.2	558.2	556.1	560.2	558.2	558.2	556.1
40°	532.7	531.6	532.7	532.7	532.7	533.7	531.6	531.6	531.6	529.6	527.6
42.5°	511.2	505.1	507.1	508.2	505.1	505.1	506.1	505.1	508.2	502.0	502.0
45°	480.6	478.6	479.6	479.6	481.6	478.6	480.6	481.6	478.6	477.6	475.5
47.5°	453.1	455.1	453.1	455.1	455.1	457.1	453.1	454.1	455.1	451.0	448.0
50°	425.5	425.5	428.6	427.6	428.6	426.5	426.5	425.5	426.5	424.5	421.4
52.5°	400.0	396.9	402.0	401.0	400.0	399.0	398.0	399.0	396.9	394.9	394.9
55°	368.4	368.4	371.4	372.5	372.5	370.4	368.4	369.4	368.4	367.3	366.3
57.5°	342.9	338.8	340.8	341.8	341.8	338.8	340.8	338.8	338.8	339.8	336.7
60°	310.2	310.2	308.2	311.2	311.2	309.2	309.2	310.2	308.2	307.1	306.1
62.5°	275.5	276.5	279.6	280.6	281.6	279.6	277.6	278.6	278.6	275.5	276.5
65°	245.9	248.0	252.0	251.0	249.0	250.0	248.0	249.0	245.9	246.9	243.9
67.5°	217.3	216.3	217.3	217.3	219.4	218.4	216.3	216.3	215.3	218.4	215.3
70°	186.7	186.7	186.7	186.7	187.8	188.8	186.7	184.7	185.7	183.7	182.7
72.5°	155.1	156.1	155.1	157.1	154.1	156.1	156.1	155.1	154.1	154.1	154.1
75°	125.5	127.6	124.5	125.5	124.5	126.5	125.5	125.5	123.5	122.4	123.5
77.5°	95.9	96.9	94.9	95.9	94.9	95.9	95.9	94.9	94.9	94.9	94.9
80°	68.4	69.4	68.4	67.3	66.3	68.4	66.3	67.3	68.4	67.3	69.4
82.5°	43.9	43.9	42.9	43.9	41.8	41.8	42.9	42.9	41.8	43.9	41.8
85°	21.4	21.4	23.5	21.4	20.4	20.4	20.4	21.4	20.4	22.4	21.4
87.5°	5.1	4.1	5.1	5.1	4.1	4.1	5.1	4.1	5.1	6.1	4.1
90°	8.1	8.2	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	8.1
92.5°	8.4	8.4	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.4
95°	14.2	14.2	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.2
97.5°	17.5	17.5	17.6	17.7	17.7	17.8	17.7	17.7	17.6	17.5	17.5
100°	21.0	21.1	21.2	21.4	21.5	21.7	21.5	21.4	21.2	21.1	21.0
102.5°	22.6	22.7	22.9	23.2	23.4	23.6	23.4	23.2	22.9	22.7	22.6
105°	23.3	23.4	23.7	24.0	24.3	24.6	24.3	24.0	23.7	23.4	23.3
107.5°	23.9	24.0	24.3	24.6	24.9	25.2	24.9	24.6	24.3	24.0	23.9
110°	24.3	24.4	24.7	25.0	25.2	25.5	25.2	25.0	24.7	24.4	24.3

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	24.9	25.0	25.2	25.5	25.7	25.9	25.7	25.5	25.2	25.0	24.9
115°	49.8	47.2	42.0	36.9	31.7	26.5	31.7	36.9	42.0	47.2	49.8
117.5°	170.7	161.3	142.5	123.6	104.8	86.0	104.8	123.6	142.5	161.3	170.7
120°	240.9	236.1	226.4	216.7	207.0	197.3	207.0	216.7	226.4	236.1	240.9
122.5°	258.1	258.1	258.2	258.3	258.3	258.4	258.3	258.3	258.2	258.1	258.1
125°	275.5	275.6	275.8	276.1	276.3	276.5	276.3	276.1	275.8	275.6	275.5
127.5°	292.3	292.3	292.4	292.5	292.6	292.7	292.6	292.5	292.4	292.3	292.3
130°	307.9	307.9	307.8	307.7	307.6	307.5	307.6	307.7	307.8	307.9	307.9
132.5°	322.4	322.4	322.3	322.2	322.2	322.1	322.2	322.2	322.3	322.4	322.4
135°	336.6	336.5	336.4	336.3	336.1	336.0	336.1	336.3	336.4	336.5	336.6
137.5°	349.9	349.8	349.6	349.3	349.1	348.9	349.1	349.3	349.6	349.8	349.9
140°	362.5	362.3	362.0	361.6	361.3	360.9	361.3	361.6	362.0	362.3	362.5
142.5°	374.2	374.0	373.6	373.3	372.9	372.5	372.9	373.3	373.6	374.0	374.2
145°	384.8	384.6	384.3	383.9	383.6	383.2	383.6	383.9	384.3	384.6	384.8
147.5°	394.2	394.1	393.8	393.5	393.2	392.9	393.2	393.5	393.8	394.1	394.2
150°	403.3	403.1	402.7	402.4	402.0	401.6	402.0	402.4	402.7	403.1	403.3
152.5°	411.3	411.1	410.6	410.1	409.6	409.1	409.6	410.1	410.6	411.1	411.3
155°	418.5	418.2	417.6	417.1	416.5	415.9	416.5	417.1	417.6	418.2	418.5
157.5°	424.9	424.6	424.0	423.5	422.9	422.3	422.9	423.5	424.0	424.6	424.9
160°	430.1	429.8	429.3	428.8	428.3	427.8	428.3	428.8	429.3	429.8	430.1
162.5°	435.3	435.0	434.3	433.7	433.0	432.4	433.0	433.7	434.3	435.0	435.3
165°	439.2	438.9	438.4	437.9	437.4	436.9	437.4	437.9	438.4	438.9	439.2
167.5°	442.7	442.4	441.7	441.1	440.4	439.8	440.4	441.1	441.7	442.4	442.7
170°	445.3	445.0	444.3	443.7	443.0	442.4	443.0	443.7	444.3	445.0	445.3
172.5°	447.2	446.9	446.2	445.6	444.9	444.3	444.9	445.6	446.2	446.9	447.2
175°	448.5	448.1	447.4	446.7	446.0	445.3	446.0	446.7	447.4	448.1	448.5
177.5°	448.9	448.6	447.9	447.3	446.6	446.0	446.6	447.3	447.9	448.6	448.9
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1260.2	1268.4	1265.3	1254.1	1267.4	1267.4	1276.5	1276.5	1287.8	1291.8	1298.0
5°	1188.8	1194.9	1200.0	1194.9	1204.1	1218.4	1226.5	1233.7	1249.0	1255.1	1264.3
7.5°	1112.3	1123.5	1128.6	1128.6	1143.9	1160.2	1176.5	1186.7	1208.2	1216.3	1225.5
10°	1037.8	1051.0	1061.2	1060.2	1085.7	1095.9	1116.3	1139.8	1161.2	1173.5	1186.7
12.5°	959.2	966.3	980.6	1001.0	1007.1	1025.5	1049.0	1078.6	1117.4	1128.6	1148.0
15°	893.9	913.3	924.5	933.7	948.0	965.3	990.8	1019.4	1058.2	1082.7	1103.1
17.5°	838.8	864.3	871.4	869.4	887.8	914.3	943.9	965.3	1000.0	1029.6	1049.0
20°	793.9	804.1	816.3	821.4	835.7	864.3	892.9	917.4	945.9	969.4	991.8
22.5°	749.0	757.1	767.4	776.5	787.8	804.1	831.6	862.3	889.8	912.3	937.8
25°	712.2	717.4	726.5	733.7	745.9	757.1	776.5	810.2	842.9	856.1	878.6
27.5°	676.5	680.6	686.7	694.9	701.0	712.2	729.6	757.1	790.8	804.1	834.7
30°	644.9	648.0	654.1	658.2	661.2	674.5	687.8	709.2	734.7	753.1	775.5
32.5°	615.3	618.4	624.5	625.5	629.6	636.7	649.0	668.4	690.8	706.1	725.5
35°	582.7	584.7	590.8	592.9	595.9	602.0	611.2	625.5	645.9	657.1	674.5
37.5°	557.1	556.1	560.2	563.3	567.4	570.4	573.5	587.8	603.1	613.3	626.5
40°	529.6	527.6	528.6	532.7	534.7	538.8	538.8	553.1	563.3	571.4	581.6
42.5°	502.0	501.0	499.0	501.0	503.1	504.1	505.1	515.3	525.5	532.7	543.9
45°	474.5	473.5	471.4	472.5	472.5	474.5	477.6	481.6	488.8	494.9	501.0
47.5°	449.0	446.9	443.9	442.9	444.9	444.9	444.9	449.0	456.1	458.2	464.3
50°	422.5	419.4	415.3	413.3	413.3	412.2	414.3	415.3	421.4	423.5	428.6
52.5°	393.9	391.8	387.8	383.7	384.7	382.7	383.7	384.7	386.7	389.8	392.9
55°	365.3	361.2	358.2	357.1	354.1	354.1	351.0	355.1	354.1	355.1	359.2
57.5°	337.8	333.7	328.6	326.5	323.5	322.5	320.4	319.4	320.4	323.5	326.5
60°	305.1	303.1	300.0	296.9	294.9	291.8	289.8	289.8	288.8	288.8	289.8
62.5°	273.5	272.5	268.4	267.3	265.3	263.3	260.2	258.2	258.2	260.2	261.2
65°	242.9	241.8	238.8	237.8	232.7	230.6	229.6	228.6	226.5	226.5	226.5
67.5°	214.3	211.2	211.2	206.1	202.0	200.0	198.0	196.9	196.9	196.9	198.0
70°	182.7	182.7	179.6	176.5	172.5	173.5	170.4	167.3	167.3	165.3	166.3
72.5°	152.0	151.0	148.0	146.9	143.9	140.8	138.8	140.8	137.8	136.7	137.8
75°	122.4	121.4	119.4	117.3	118.4	115.3	112.2	111.2	111.2	109.2	109.2
77.5°	93.9	95.9	91.8	90.8	88.8	86.7	85.7	84.7	84.7	84.7	86.7
80°	65.3	66.3	66.3	64.3	65.3	62.2	62.2	62.2	59.2	60.2	61.2
82.5°	41.8	41.8	40.8	41.8	40.8	40.8	39.8	39.8	38.8	38.8	39.8
85°	23.5	22.4	21.4	23.5	22.4	22.4	21.4	21.4	21.4	21.4	21.4
87.5°	5.1	6.1	6.1	6.1	6.1	7.1	7.1	7.1	8.2	8.2	8.2
90°	7.9	7.6	7.2	6.9	6.5	5.9	5.3	4.8	4.2	3.9	3.5
92.5°	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.1	6.9	6.8	6.9
95°	14.0	13.7	13.3	13.0	12.6	12.1	11.6	11.1	10.6	10.3	11.5
97.5°	17.4	17.2	16.9	16.7	16.5	15.3	14.2	13.0	11.9	11.3	14.2
100°	20.7	20.1	19.6	19.0	18.4	17.2	16.0	14.7	13.5	12.9	17.8
102.5°	22.2	21.4	20.7	19.9	19.1	32.2	45.2	58.3	71.4	77.9	78.0
105°	22.9	22.1	21.3	20.5	19.7	39.3	58.9	78.6	98.2	108.0	106.9
107.5°	23.5	22.7	22.0	21.2	20.4	44.6	68.8	93.1	117.3	129.4	128.5
110°	27.9	35.1	42.2	49.4	56.6	77.4	98.2	118.9	139.7	150.1	149.3

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	40.4	71.4	102.3	133.3	164.3	165.5	166.7	168.0	169.2	169.8	169.2
115°	66.4	99.7	133.0	166.2	199.5	197.7	195.9	194.1	192.3	191.4	190.8
117.5°	175.8	186.1	196.4	206.7	217.0	215.8	214.6	213.3	212.1	211.5	210.8
120°	240.5	239.6	238.7	237.9	237.0	235.7	234.4	233.1	231.8	231.2	230.7
122.5°	257.9	257.4	257.0	256.5	256.1	254.7	253.3	251.8	250.4	249.7	249.1
125°	275.3	274.8	274.3	273.8	273.3	271.9	270.5	269.2	267.8	267.1	266.6
127.5°	291.9	291.2	290.5	289.8	289.1	288.0	287.0	285.9	284.8	284.3	283.8
130°	307.5	306.7	305.9	305.1	304.3	303.5	302.7	301.9	301.1	300.7	300.1
132.5°	322.1	321.4	320.8	320.1	319.5	318.7	317.9	317.1	316.3	315.9	315.4
135°	336.2	335.5	334.8	334.1	333.4	332.8	332.1	331.5	330.8	330.5	329.9
137.5°	349.5	348.8	348.1	347.4	346.7	346.0	345.2	344.5	343.8	343.4	343.0
140°	362.2	361.5	360.9	360.2	359.6	358.8	358.0	357.2	356.4	356.0	355.7
142.5°	373.9	373.3	372.8	372.2	371.6	370.7	369.7	368.8	367.9	367.4	367.1
145°	384.6	384.1	383.6	383.1	382.6	381.4	380.2	378.9	377.7	377.1	377.1
147.5°	394.0	393.7	393.3	393.0	392.6	391.4	390.2	388.9	387.7	387.1	387.2
150°	403.1	402.6	402.2	401.7	401.3	400.1	399.0	397.8	396.7	396.1	396.4
152.5°	411.1	410.7	410.2	409.8	409.4	408.3	407.3	406.2	405.1	404.6	404.9
155°	418.3	417.8	417.4	416.9	416.5	415.6	414.8	413.9	413.0	412.6	412.9
157.5°	424.7	424.2	423.7	423.2	422.7	422.1	421.4	420.8	420.1	419.8	420.1
160°	429.9	429.5	429.0	428.6	428.2	427.8	427.3	426.9	426.4	426.2	426.4
162.5°	435.0	434.5	434.0	433.5	433.0	432.6	432.3	431.9	431.6	431.4	431.6
165°	438.9	438.4	437.9	437.4	436.9	436.7	436.5	436.2	436.0	435.9	436.1
167.5°	442.5	442.0	441.5	441.0	440.5	440.3	440.1	439.8	439.6	439.5	439.7
170°	445.0	444.5	444.0	443.5	443.0	442.9	442.7	442.6	442.5	442.4	442.6
172.5°	447.0	446.5	446.0	445.5	445.0	444.8	444.7	444.5	444.4	444.3	444.5
175°	448.3	447.8	447.3	446.8	446.3	446.1	446.0	445.8	445.7	445.6	445.9
177.5°	448.6	448.1	447.6	447.1	446.6	446.5	446.5	446.4	446.3	446.3	446.5
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1327.6	1327.6	1327.6	1327.6
2.5°	1303.1	1303.1	1318.4	1334.7
5°	1274.5	1281.6	1306.1	1328.6
7.5°	1246.9	1259.2	1289.8	1318.4
10°	1213.3	1229.6	1267.4	1301.0
12.5°	1180.6	1195.9	1239.8	1277.6
15°	1134.7	1154.1	1201.0	1248.0
17.5°	1088.8	1108.2	1165.3	1220.4
20°	1034.7	1060.2	1124.5	1198.0
22.5°	984.7	1016.3	1087.8	1146.9
25°	929.6	978.6	1044.9	1121.4
27.5°	880.6	929.6	996.9	1074.5
30°	825.5	875.5	944.9	1016.3
32.5°	772.5	818.4	885.7	973.5
35°	717.4	761.2	826.5	915.3
37.5°	667.4	710.2	781.6	863.3
40°	618.4	663.3	724.5	806.1
42.5°	572.5	612.2	667.4	749.0
45°	530.6	559.2	610.2	686.7
47.5°	486.7	512.2	559.2	635.7
50°	445.9	467.3	508.2	579.6
52.5°	406.1	424.5	462.2	519.4
55°	370.4	387.8	415.3	471.4
57.5°	333.7	346.9	373.5	418.4
60°	298.0	310.2	331.6	368.4
62.5°	262.2	272.5	292.9	322.5
65°	230.6	238.8	254.1	279.6
67.5°	200.0	205.1	217.3	237.8
70°	170.4	174.5	184.7	201.0
72.5°	138.8	142.9	154.1	165.3
75°	112.2	113.3	121.4	130.6
77.5°	87.8	86.7	92.9	100.0
80°	60.2	63.3	68.4	71.4
82.5°	40.8	41.8	43.9	45.9
85°	22.4	23.5	23.5	26.5
87.5°	9.2	10.2	10.2	11.2
90°	2.7	1.9	1.1	0.3
92.5°	7.2	7.5	7.8	8.1
95°	13.9	16.2	18.6	21.0
97.5°	20.1	26.0	31.9	37.8
100°	27.7	37.5	47.4	57.2
102.5°	78.1	78.3	78.4	78.6
105°	104.8	102.6	100.5	98.3
107.5°	126.7	124.9	123.1	121.3
110°	147.8	146.3	144.8	143.3



TEST NUMBER: P1008162

CATALOG NUMBER: S122DIP-B675D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	167.9	166.6	165.3	164.0
115°	189.6	188.3	187.1	185.9
117.5°	209.3	207.9	206.4	205.0
120°	229.6	228.5	227.5	226.4
122.5°	248.0	246.8	245.7	244.5
125°	265.7	264.8	263.8	262.9
127.5°	282.8	281.7	280.7	279.7
130°	299.0	297.9	296.7	295.6
132.5°	314.5	313.6	312.6	311.7
135°	328.8	327.6	326.5	325.3
137.5°	342.1	341.3	340.4	339.6
140°	355.2	354.6	354.1	353.5
142.5°	366.6	366.1	365.6	365.1
145°	377.2	377.3	377.3	377.4
147.5°	387.4	387.7	387.9	388.1
150°	396.9	397.4	397.9	398.4
152.5°	405.4	406.0	406.5	407.1
155°	413.6	414.3	414.9	415.6
157.5°	420.6	421.2	421.7	422.3
160°	426.9	427.3	427.8	428.2
162.5°	432.0	432.5	432.9	433.3
165°	436.6	437.0	437.5	437.9
167.5°	440.1	440.6	441.0	441.4
170°	443.0	443.5	443.9	444.3
172.5°	445.0	445.4	445.9	446.3
175°	446.4	446.9	447.4	447.9
177.5°	447.0	447.5	448.0	448.5
180°	446.9	446.9	446.9	446.9

(END OF REPORT)