

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: P1010664

Luminaire Tested: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010664
REPORT IS A COMBINATION OF REPORTS P990108 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

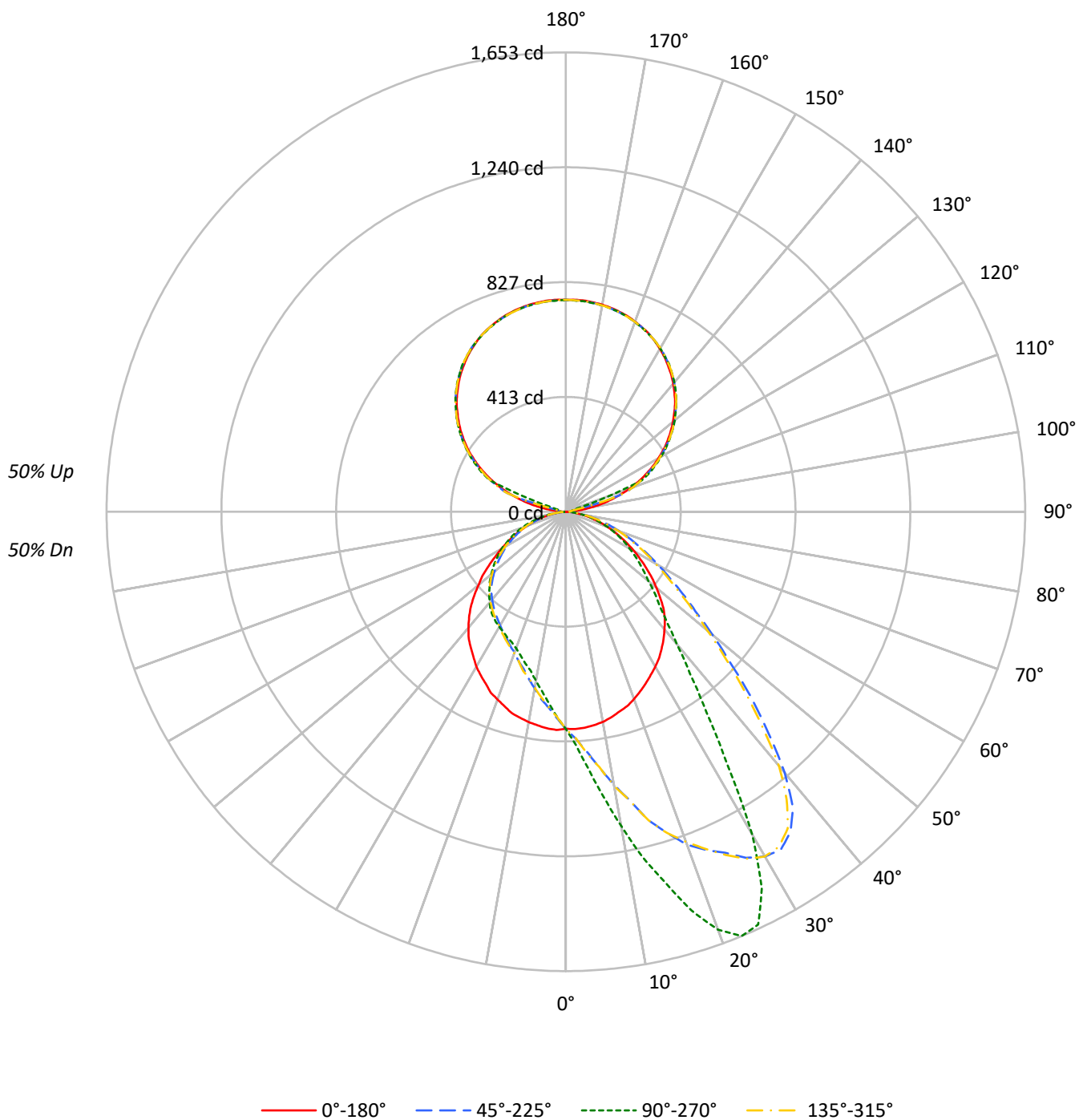
Lumens per Lamp: N/A
Luminaire Lumens: 4683.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
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: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50		
1	98	94	90	87	90	87	84	81	74	71	69	62	60	58	50	49	48	43		
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41	36		
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35	31		
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	30	27		
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27	23		
6	63	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24	21		
7	59	47	39	33	54	43	36	31	37	32	28	32	28	24	27	23	21	18		
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	25	21	19	16		
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17	15		
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8402	8402	8402	8402
5°	8408	9682	8432	7225
10°	8354	11716	8363	6310
15°	8239	13894	8307	5680
20°	8140	15996	8157	5226
25°	7992	16400	8010	4990
30°	7887	13549	7887	4835
35°	7756	9061	7707	4697
40°	7600	6542	7506	4488
45°	7403	5181	7189	4227
50°	6926	4400	6678	3971
55°	6400	3866	6141	3686
60°	5868	3366	5557	3387
65°	5284	2883	5028	2986
70°	4676	2393	4367	2517
75°	3998	1805	3739	1944
80°	3160	1204	2915	1276
85°	2180	554	1748	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 13551 cd/sqm

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.6
10°-20°	246.6	5.3
20°-30°	414.9	8.9
30°-40°	468.9	10.0
40°-50°	419.9	9.0
50°-60°	339.0	7.2
60°-70°	236.2	5.0
70°-80°	124.0	2.6
80°-90°	31.3	0.7
90°-100°	26.9	0.6
100°-110°	130.0	2.8
110°-120°	318.7	6.8
120°-130°	404.6	8.6
130°-140°	432.2	9.2
140°-150°	404.2	8.6
150°-160°	326.0	7.0
160°-170°	210.4	4.5
170°-180°	72.5	1.5
0°-30°	738.2	15.8
0°-40°	1207.1	25.8
0°-60°	1966.1	42.0
0°-90°	2357.5	50.3
90°-120°	475.6	10.2
90°-150°	1716.6	36.7
90°-180°	2325.0	49.6
0°-180°	4683.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	781	781	781	781	781	
5°	780	927	782	692	780	74
15°	744	1380	750	564	744	210
25°	681	1638	682	498	681	314
35°	601	883	597	458	601	376
45°	498	476	484	389	498	381
55°	353	324	339	309	353	316
65°	219	210	208	218	219	218
75°	105	108	98	116	105	113
85°	23	25	18	23	23	26
90°	1	17	1	17	1	3
95°	35	22	35	22	35	41
105°	169	25	169	25	169	179
115°	317	333	317	333	317	313
125°	447	456	447	456	447	399
135°	556	562	556	562	556	428
145°	642	648	642	648	642	402
155°	707	706	707	706	707	326
165°	745	744	745	744	745	211
175°	763	760	763	760	763	73
180°	763	763	763	763	763	

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	782.9	788.9	792.0	796.5	801.0	807.8	810.1	813.9	812.4	815.4	816.9
5°	779.9	790.4	799.5	810.9	821.5	829.0	836.6	848.7	857.8	859.3	866.1
7.5°	774.6	789.7	805.6	821.5	841.9	854.0	867.6	884.2	897.9	919.8	928.1
10°	767.7	788.9	811.6	833.6	861.5	880.5	897.1	925.1	953.1	975.8	996.9
12.5°	757.2	783.6	813.1	845.7	882.0	903.9	926.6	963.7	1006.0	1040.8	1063.5
15°	744.3	777.6	815.4	850.2	890.3	931.1	955.3	996.9	1057.5	1090.0	1148.2
17.5°	733.7	767.7	805.6	860.0	914.5	955.3	972.7	1049.1	1090.7	1145.2	1211.0
20°	717.1	760.2	808.6	863.1	933.4	958.4	993.9	1071.1	1122.5	1193.6	1274.5
22.5°	699.7	745.8	804.1	860.8	939.5	965.9	1014.3	1075.6	1157.3	1227.6	1316.9
25°	680.8	730.7	789.7	857.0	934.2	972.7	1018.1	1093.8	1182.3	1270.8	1353.2
27.5°	661.9	716.3	777.6	844.9	919.8	965.2	1010.6	1089.2	1202.7	1298.7	1403.9
30°	643.7	698.2	759.4	828.3	906.9	950.8	993.9	1092.2	1218.6	1326.7	1432.6
32.5°	624.0	680.0	744.3	801.8	881.2	928.1	976.5	1092.2	1228.4	1343.4	1440.2
35°	600.6	658.1	713.3	770.8	849.4	901.6	956.1	1084.7	1237.5	1348.7	1408.4
37.5°	577.9	628.6	676.2	732.2	814.6	870.6	933.4	1075.6	1232.9	1326.0	1342.6
40°	552.2	602.9	641.4	693.6	780.6	845.7	909.2	1063.5	1213.3	1272.3	1223.9
42.5°	527.2	567.3	600.6	651.3	745.8	809.4	878.2	1041.6	1174.7	1186.8	1077.9
45°	498.5	527.2	556.7	614.2	708.0	773.0	849.4	1009.8	1112.7	1077.9	940.2
47.5°	461.4	487.1	519.6	572.6	667.9	735.2	807.8	969.0	1022.7	950.0	799.5
50°	425.9	447.8	478.0	529.5	625.5	691.4	768.5	904.7	931.1	816.9	689.1
52.5°	390.3	406.9	436.4	487.9	583.9	647.5	717.8	838.9	823.7	701.2	587.7
55°	353.2	367.6	395.6	446.3	535.5	596.0	663.4	757.9	718.6	602.1	511.3
57.5°	316.9	332.1	360.8	403.2	487.1	546.1	599.8	674.0	615.0	521.9	441.7
60°	284.4	297.3	319.2	360.8	437.2	484.9	534.0	584.7	535.5	445.5	384.3
62.5°	250.4	262.5	282.9	320.7	386.5	428.9	468.2	509.8	455.4	389.5	335.1
65°	218.6	228.4	247.3	282.1	335.8	370.6	402.4	431.1	387.3	326.8	285.9
67.5°	189.9	198.2	214.1	245.1	290.5	315.4	341.1	365.3	328.3	279.9	245.1
70°	158.8	165.7	180.0	202.7	239.0	264.7	283.7	301.8	268.5	229.9	206.5
72.5°	131.6	138.4	147.5	170.9	195.9	211.8	232.2	242.0	223.1	191.4	167.9
75°	105.1	110.4	118.8	133.9	157.3	167.9	180.8	188.3	170.9	149.8	135.4
77.5°	82.4	84.7	90.8	101.4	117.2	129.3	139.2	143.7	131.6	118.0	105.9
80°	58.2	61.3	65.8	74.9	87.0	90.8	96.8	102.1	94.6	82.4	74.9
82.5°	38.6	42.4	44.6	48.4	56.0	60.5	62.0	66.6	59.8	55.2	52.2
85°	22.7	24.2	25.0	27.2	31.0	33.3	35.6	36.3	34.8	34.0	31.0
87.5°	11.3	11.3	11.3	12.9	13.6	15.1	15.9	15.9	15.9	15.1	14.4
90°	0.6	1.8	3.1	4.3	5.6	6.2	7.0	8.7	10.3	12.0	13.6
92.5°	13.0	12.2	11.5	10.7	10.0	9.6	10.2	11.3	12.4	13.6	14.7
95°	34.6	29.4	24.2	19.1	13.9	11.3	12.0	13.4	14.8	16.2	17.6
97.5°	62.9	59.4	55.8	52.3	48.8	47.0	43.8	37.4	30.9	24.5	18.1
100°	95.8	98.3	100.8	103.3	105.8	107.1	97.3	77.6	58.0	38.3	18.7
102.5°	133.2	134.8	136.4	138.1	139.7	140.5	129.5	107.6	85.7	63.8	41.9
105°	168.9	170.3	171.7	173.0	174.4	175.1	169.4	158.1	146.8	135.4	124.1
107.5°	206.9	208.0	209.2	210.3	211.4	212.0	212.9	214.8	216.7	218.6	220.5
110°	244.8	245.8	246.8	247.9	248.9	249.4	250.1	251.5	252.8	254.2	255.6

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.1	282.0	282.9	283.8	284.7	285.1	285.8	287.2	288.5	289.9	291.3
115°	316.8	317.6	318.3	319.1	319.8	320.2	320.8	321.9	323.0	324.2	325.3
117.5°	351.9	352.8	353.7	354.6	355.5	355.9	356.2	356.8	357.5	358.1	358.7
120°	384.2	385.3	386.5	387.6	388.7	389.3	389.5	389.9	390.2	390.6	391.0
122.5°	417.1	418.0	418.9	419.8	420.7	421.1	421.3	421.8	422.3	422.8	423.3
125°	446.6	447.6	448.6	449.6	450.6	451.1	451.4	451.9	452.4	452.9	453.4
127.5°	476.0	477.0	478.0	479.1	480.1	480.6	480.9	481.5	482.2	482.8	483.4
130°	503.2	504.2	505.2	506.3	507.3	507.8	508.0	508.5	509.0	509.5	510.0
132.5°	529.3	530.3	531.3	532.4	533.4	533.9	534.1	534.5	534.8	535.2	535.6
135°	556.0	556.8	557.5	558.3	559.0	559.4	559.6	560.1	560.6	561.1	561.6
137.5°	578.6	579.6	580.6	581.7	582.7	583.2	583.3	583.6	583.8	584.1	584.3
140°	601.3	602.1	602.8	603.6	604.3	604.7	604.9	605.3	605.6	606.0	606.4
142.5°	622.3	623.1	623.8	624.6	625.3	625.7	625.9	626.3	626.6	627.0	627.4
145°	641.5	642.4	643.3	644.2	645.1	645.5	645.6	645.9	646.1	646.4	646.6
147.5°	660.2	660.8	661.5	662.1	662.8	663.1	663.2	663.5	663.7	664.0	664.2
150°	677.2	677.6	678.0	678.3	678.7	678.9	679.0	679.3	679.6	679.8	680.1
152.5°	692.5	692.6	692.8	692.9	693.0	693.1	693.2	693.3	693.4	693.6	693.7
155°	706.7	706.5	706.2	706.0	705.7	705.6	705.7	705.8	705.9	706.0	706.1
157.5°	718.0	718.0	718.0	718.0	718.0	718.0	717.9	717.8	717.7	717.6	717.5
160°	728.2	728.1	728.0	727.9	727.8	727.7	727.6	727.5	727.4	727.2	727.1
162.5°	737.9	737.5	737.1	736.8	736.4	736.2	736.1	736.0	735.9	735.7	735.6
165°	745.2	744.8	744.4	744.1	743.7	743.5	743.4	743.3	743.2	743.1	743.0
167.5°	751.5	751.0	750.5	750.0	749.5	749.2	749.2	749.2	749.2	749.2	749.2
170°	756.6	756.1	755.6	755.1	754.6	754.3	754.3	754.3	754.3	754.3	754.3
172.5°	760.0	759.4	758.7	758.1	757.4	757.1	757.2	757.3	757.4	757.6	757.7
175°	762.8	762.2	761.6	760.9	760.3	760.0	760.1	760.2	760.3	760.4	760.5
177.5°	763.9	763.3	762.7	762.0	761.4	761.1	761.2	761.3	761.4	761.6	761.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	822.2	823.7	829.0	832.8	840.4	839.6	839.6	838.9	836.6	840.4	842.6
5°	879.7	892.6	894.1	910.7	911.5	918.3	922.8	919.0	928.1	927.4	920.5
7.5°	950.8	968.2	976.5	992.4	1010.6	1006.0	1023.4	1026.4	1024.9	1032.5	1037.8
10°	1028.7	1059.0	1080.1	1109.6	1117.2	1121.7	1133.1	1142.9	1162.6	1147.5	1157.3
12.5°	1118.0	1139.9	1167.9	1214.8	1238.2	1253.4	1258.7	1265.5	1279.1	1270.8	1271.5
15°	1192.8	1222.3	1270.0	1328.2	1335.1	1354.0	1349.4	1390.3	1409.9	1380.4	1397.1
17.5°	1270.8	1310.1	1366.8	1417.5	1446.2	1459.1	1471.2	1510.5	1509.0	1504.5	1508.3
20°	1320.7	1385.0	1455.3	1522.6	1531.0	1540.8	1573.3	1590.0	1586.9	1599.8	1608.1
22.5°	1391.0	1459.1	1534.0	1578.6	1597.5	1608.9	1634.6	1645.2	1649.7	1652.7	1647.4
25°	1450.0	1522.6	1577.9	1617.2	1628.5	1634.6	1642.9	1645.9	1643.7	1638.4	1642.9
27.5°	1490.1	1548.4	1586.2	1604.3	1598.3	1588.4	1572.6	1562.0	1538.5	1527.2	1540.8
30°	1506.8	1532.5	1543.8	1513.6	1483.3	1459.1	1428.8	1372.9	1329.0	1341.9	1324.5
32.5°	1480.3	1463.6	1409.2	1331.3	1307.8	1268.5	1183.0	1117.2	1119.5	1084.7	1099.1
35°	1402.4	1326.7	1223.9	1105.9	1074.8	1053.7	959.9	945.5	915.2	882.7	891.8
37.5°	1264.7	1154.3	1029.5	942.5	896.3	850.2	797.2	765.5	747.3	733.7	744.3
40°	1096.8	962.1	859.3	781.4	742.0	712.5	676.2	644.5	624.0	621.8	625.5
42.5°	931.9	818.4	723.9	649.8	636.9	602.1	578.6	553.7	547.6	537.8	543.1
45°	788.9	696.6	618.7	558.2	543.1	534.0	505.3	489.4	482.6	476.5	485.6
47.5°	685.3	588.5	531.8	495.4	480.3	465.2	449.3	438.7	433.4	434.2	433.4
50°	585.5	514.4	464.4	436.4	427.4	416.8	403.9	397.1	394.8	388.0	393.3
52.5°	503.8	452.3	417.5	391.1	384.3	376.7	366.1	362.3	357.0	355.5	355.5
55°	438.0	397.9	369.9	352.5	344.2	338.1	332.1	327.5	323.7	323.7	323.7
57.5°	386.5	351.7	331.3	316.2	313.2	307.1	300.3	300.3	295.0	294.2	296.5
60°	342.7	311.6	295.8	282.9	278.4	276.8	270.0	270.0	268.5	264.7	267.8
62.5°	298.0	275.3	261.7	251.9	247.3	247.3	242.0	238.3	238.3	239.0	237.5
65°	257.2	240.5	228.4	220.9	218.6	215.6	214.8	211.8	209.5	210.3	209.5
67.5°	220.9	208.0	199.7	193.6	189.9	188.3	186.1	186.1	184.6	185.3	181.5
70°	188.3	175.5	168.7	162.6	161.1	161.1	158.1	158.8	157.3	159.6	158.1
72.5°	155.1	145.2	139.9	137.7	136.2	135.4	133.9	132.4	131.6	133.1	132.4
75°	125.6	117.2	113.5	111.9	110.4	110.4	109.7	108.9	108.2	108.2	108.2
77.5°	97.6	92.3	87.7	89.3	87.0	87.7	85.5	85.5	86.2	85.5	85.5
80°	71.9	68.1	68.1	66.6	63.5	65.1	65.1	62.8	62.0	63.5	61.3
82.5°	47.7	46.9	45.4	44.6	43.1	43.9	43.1	42.4	41.6	43.1	41.6
85°	28.0	28.0	27.2	25.7	27.2	26.5	25.7	25.7	25.0	25.0	25.0
87.5°	14.4	12.9	12.9	12.1	12.9	11.3	12.1	11.3	10.6	11.3	10.6
90°	14.1	14.6	15.1	15.6	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	15.6	16.5	17.4	18.3	18.7	18.8	18.9	19.0	19.2	19.3	19.2
95°	18.5	19.3	20.2	21.1	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	19.1	20.1	21.2	22.2	22.7	22.8	22.9	23.0	23.1	23.2	23.1
100°	19.7	20.7	21.7	22.7	23.2	23.3	23.4	23.5	23.7	23.8	23.7
102.5°	37.7	33.6	29.4	25.3	23.2	23.3	23.6	23.9	24.1	24.4	24.1
105°	101.8	79.5	57.2	34.9	23.8	23.9	24.2	24.4	24.7	24.9	24.7
107.5°	201.1	181.7	162.3	142.9	133.2	124.9	108.4	91.9	75.4	58.9	75.4
110°	251.4	247.3	243.1	239.0	236.9	227.9	209.9	191.8	173.8	155.8	173.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	292.4	293.6	294.7	295.8	296.4	296.3	296.0	295.8	295.5	295.3	295.5
115°	326.6	327.8	329.1	330.4	331.0	331.2	331.7	332.2	332.7	333.2	332.7
117.5°	359.7	360.7	361.8	362.8	363.3	363.4	363.5	363.6	363.7	363.8	363.7
120°	392.0	393.0	394.1	395.1	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	423.9	424.6	425.2	425.9	426.2	426.3	426.4	426.5	426.6	426.7	426.6
125°	453.6	453.9	454.1	454.4	454.5	454.6	454.9	455.1	455.4	455.6	455.4
127.5°	483.8	484.2	484.5	484.9	485.1	485.0	484.7	484.5	484.2	484.0	484.2
130°	510.5	511.0	511.5	512.0	512.3	512.2	511.9	511.7	511.4	511.2	511.4
132.5°	536.1	536.6	537.1	537.6	537.8	537.6	537.2	536.9	536.5	536.1	536.5
135°	562.0	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	562.0
137.5°	584.9	585.5	586.2	586.8	587.1	587.0	586.7	586.5	586.2	586.0	586.2
140°	606.9	607.4	607.9	608.4	608.7	608.6	608.3	608.0	607.8	607.5	607.8
142.5°	627.8	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.8
145°	646.9	647.1	647.4	647.7	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	664.4	664.7	664.9	665.2	665.3	665.0	664.4	663.7	663.1	662.5	663.1
150°	680.3	680.6	680.8	681.1	681.2	681.0	680.6	680.3	679.9	679.5	679.9
152.5°	694.2	694.7	695.2	695.7	695.9	695.6	695.0	694.3	693.7	693.1	693.7
155°	706.7	707.4	708.0	708.7	709.0	708.6	707.9	707.1	706.4	705.6	706.4
157.5°	718.3	719.0	719.8	720.5	720.9	720.4	719.4	718.3	717.3	716.3	717.3
160°	727.9	728.6	729.4	730.1	730.5	730.1	729.2	728.3	727.4	726.5	727.4
162.5°	736.5	737.4	738.3	739.2	739.6	739.2	738.5	737.7	737.0	736.2	737.0
165°	744.0	745.0	746.0	747.0	747.5	747.1	746.2	745.3	744.4	743.5	744.4
167.5°	750.2	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	750.2
170°	755.3	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	755.3
172.5°	758.7	759.7	760.7	761.7	762.2	761.6	760.5	759.4	758.2	757.1	758.2
175°	761.4	762.3	763.2	764.1	764.5	764.0	763.0	762.0	761.0	760.0	761.0
177.5°	762.7	763.7	764.7	765.7	766.2	765.6	764.3	763.0	761.8	760.5	761.8
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	836.6	838.9	832.8	831.3	831.3	834.3	832.0	811.6	815.4	810.9	809.4
5°	928.9	924.3	918.3	915.2	911.5	900.9	900.1	876.7	872.1	857.0	850.2
7.5°	1030.2	1026.4	1008.3	1006.0	1004.5	994.7	969.7	944.7	926.6	909.2	892.6
10°	1146.0	1134.6	1126.3	1109.6	1101.3	1087.7	1055.2	1031.7	1000.7	974.2	939.5
12.5°	1285.1	1272.3	1244.3	1232.2	1221.6	1183.8	1151.2	1124.8	1064.3	1046.1	1003.0
15°	1387.2	1360.0	1357.0	1330.5	1329.0	1287.4	1225.4	1196.6	1149.7	1083.2	1038.5
17.5°	1497.7	1473.5	1454.6	1422.8	1418.3	1378.9	1333.5	1263.2	1211.8	1148.2	1091.5
20°	1578.6	1565.8	1533.2	1520.4	1493.9	1460.6	1413.7	1326.7	1263.9	1200.4	1130.8
22.5°	1642.9	1630.0	1604.3	1586.9	1571.8	1528.7	1472.7	1398.6	1312.4	1229.2	1157.3
25°	1642.2	1638.4	1627.8	1619.5	1608.1	1576.3	1529.4	1458.3	1362.3	1270.8	1170.9
27.5°	1549.1	1559.7	1577.9	1586.9	1584.7	1580.1	1553.7	1493.9	1407.7	1298.7	1186.8
30°	1355.5	1394.1	1428.1	1473.5	1487.1	1520.4	1535.5	1501.5	1432.6	1331.3	1207.2
32.5°	1124.0	1180.0	1254.1	1279.1	1322.2	1386.5	1458.3	1471.2	1428.1	1350.2	1220.1
35°	922.1	968.2	1025.7	1065.0	1103.6	1208.0	1298.7	1377.4	1391.8	1340.3	1217.1
37.5°	763.2	795.7	846.4	879.7	915.2	1004.5	1131.6	1233.7	1305.6	1307.1	1208.7
40°	648.2	662.6	706.5	730.7	764.7	841.9	955.3	1088.5	1193.6	1242.0	1186.8
42.5°	549.1	568.1	604.4	622.5	644.5	711.8	786.7	913.0	1043.1	1146.7	1146.0
45°	490.1	503.8	520.4	535.5	560.5	600.6	686.1	780.6	905.4	1022.7	1068.8
47.5°	438.0	450.8	467.5	472.0	488.6	526.5	578.6	661.1	777.6	894.1	981.1
50°	394.1	404.7	416.0	424.3	431.9	462.9	502.3	571.8	664.9	777.6	885.7
52.5°	360.0	367.6	377.4	382.0	388.8	411.5	441.7	493.2	569.6	672.4	777.6
55°	328.3	333.6	339.6	347.2	350.2	366.9	390.3	434.2	490.9	583.2	683.0
57.5°	298.8	301.0	304.8	309.4	313.2	327.5	347.9	377.4	427.4	498.5	593.0
60°	265.5	271.5	273.8	278.4	280.6	292.0	307.9	332.8	371.4	432.7	503.8
62.5°	237.5	241.3	245.1	247.3	252.6	256.4	269.3	292.0	323.7	369.1	433.4
65°	212.5	214.1	216.3	218.6	220.1	224.7	236.8	251.9	276.1	316.2	366.1
67.5°	183.8	185.3	188.3	189.1	190.6	196.7	203.5	216.3	236.8	267.0	307.9
70°	155.8	158.1	159.6	161.1	163.4	165.7	173.2	183.8	199.7	220.9	252.6
72.5°	131.6	133.9	133.9	135.4	134.6	137.7	145.2	152.8	163.4	180.8	208.8
75°	107.4	107.4	108.9	109.7	110.4	113.5	116.5	122.5	130.9	144.5	161.9
77.5°	84.7	84.0	85.5	85.5	85.5	87.7	90.8	93.8	99.1	108.9	122.5
80°	62.0	62.0	63.5	64.3	62.8	63.5	65.1	68.1	71.9	78.7	86.2
82.5°	40.8	43.9	43.1	43.9	43.1	44.6	45.4	46.1	47.7	50.7	56.0
85°	25.0	25.0	25.0	25.7	25.0	25.7	25.7	25.7	26.5	28.0	30.3
87.5°	10.6	10.6	10.6	11.3	10.6	10.6	11.3	10.6	11.3	11.3	12.1
90°	16.5	16.3	16.0	15.9	15.6	15.1	14.6	14.1	13.6	12.0	10.3
92.5°	19.0	18.9	18.8	18.7	18.3	17.4	16.5	15.6	14.7	13.6	12.4
95°	21.5	21.5	21.5	21.5	21.1	20.2	19.3	18.5	17.6	16.2	14.8
97.5°	23.0	22.9	22.8	22.7	22.2	21.2	20.1	19.1	18.1	24.5	30.9
100°	23.5	23.4	23.3	23.2	22.7	21.7	20.7	19.7	18.7	38.3	58.0
102.5°	23.9	23.6	23.3	23.2	25.3	29.4	33.6	37.7	41.9	63.8	85.7
105°	24.4	24.2	23.9	23.8	34.9	57.2	79.5	101.8	124.1	135.4	146.8
107.5°	91.9	108.4	124.9	133.2	142.9	162.3	181.7	201.1	220.5	218.6	216.7
110°	191.8	209.9	227.9	236.9	239.0	243.1	247.3	251.4	255.6	254.2	252.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	295.8	296.0	296.3	296.4	295.8	294.7	293.6	292.4	291.3	289.9	288.5
115°	332.2	331.7	331.2	331.0	330.4	329.1	327.8	326.6	325.3	324.2	323.0
117.5°	363.6	363.5	363.4	363.3	362.8	361.8	360.7	359.7	358.7	358.1	357.5
120°	395.6	395.6	395.6	395.6	395.1	394.1	393.0	392.0	391.0	390.6	390.2
122.5°	426.5	426.4	426.3	426.2	425.9	425.2	424.6	423.9	423.3	422.8	422.3
125°	455.1	454.9	454.6	454.5	454.4	454.1	453.9	453.6	453.4	452.9	452.4
127.5°	484.5	484.7	485.0	485.1	484.9	484.5	484.2	483.8	483.4	482.8	482.2
130°	511.7	511.9	512.2	512.3	512.0	511.5	511.0	510.5	510.0	509.5	509.0
132.5°	536.9	537.2	537.6	537.8	537.6	537.1	536.6	536.1	535.6	535.2	534.8
135°	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	561.1	560.6
137.5°	586.5	586.7	587.0	587.1	586.8	586.2	585.5	584.9	584.3	584.1	583.8
140°	608.0	608.3	608.6	608.7	608.4	607.9	607.4	606.9	606.4	606.0	605.6
142.5°	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.0	626.6
145°	647.8	647.8	647.8	647.8	647.7	647.4	647.1	646.9	646.6	646.4	646.1
147.5°	663.7	664.4	665.0	665.3	665.2	664.9	664.7	664.4	664.2	664.0	663.7
150°	680.3	680.6	681.0	681.2	681.1	680.8	680.6	680.3	680.1	679.8	679.6
152.5°	694.3	695.0	695.6	695.9	695.7	695.2	694.7	694.2	693.7	693.6	693.4
155°	707.1	707.9	708.6	709.0	708.7	708.0	707.4	706.7	706.1	706.0	705.9
157.5°	718.3	719.4	720.4	720.9	720.5	719.8	719.0	718.3	717.5	717.6	717.7
160°	728.3	729.2	730.1	730.5	730.1	729.4	728.6	727.9	727.1	727.2	727.4
162.5°	737.7	738.5	739.2	739.6	739.2	738.3	737.4	736.5	735.6	735.7	735.9
165°	745.3	746.2	747.1	747.5	747.0	746.0	745.0	744.0	743.0	743.1	743.2
167.5°	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	749.2	749.2
170°	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	754.3	754.3
172.5°	759.4	760.5	761.6	762.2	761.7	760.7	759.7	758.7	757.7	757.6	757.4
175°	762.0	763.0	764.0	764.5	764.1	763.2	762.3	761.4	760.5	760.4	760.3
177.5°	763.0	764.3	765.6	766.2	765.7	764.7	763.7	762.7	761.7	761.6	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	801.8	799.5	799.5	798.0	793.5	785.1	784.4	785.9	781.4	776.8	770.0
5°	841.1	826.7	822.2	817.7	808.6	793.5	787.4	782.1	773.8	764.0	753.4
7.5°	874.4	854.0	847.9	839.6	821.5	800.3	786.7	775.3	764.0	750.4	737.5
10°	916.0	886.5	872.1	860.0	835.1	805.6	785.1	768.5	750.4	733.7	717.1
12.5°	962.9	915.2	910.7	881.2	852.5	808.6	783.6	759.4	735.2	714.8	697.4
15°	1002.2	950.0	931.1	911.5	856.2	801.8	777.6	750.4	722.4	700.4	674.7
17.5°	1027.2	984.1	944.0	917.5	860.0	811.6	764.7	733.7	704.2	674.0	652.8
20°	1057.5	994.7	959.9	924.3	867.6	804.1	757.2	718.6	682.3	655.0	629.3
22.5°	1087.7	1003.0	974.2	935.7	869.1	796.5	743.5	705.0	663.4	636.1	608.1
25°	1084.7	1015.1	967.4	934.9	854.0	789.7	727.7	682.3	643.7	608.9	580.9
27.5°	1087.0	1001.5	953.1	915.2	843.4	779.9	711.0	663.4	623.3	587.0	557.5
30°	1087.7	981.1	938.7	893.3	823.7	756.4	692.1	643.7	601.3	562.0	535.5
32.5°	1085.4	964.4	911.5	870.6	792.7	733.7	670.2	618.7	575.6	539.3	514.4
35°	1080.1	944.7	883.5	832.0	760.9	701.2	649.8	596.8	550.7	517.4	488.6
37.5°	1065.8	923.6	854.0	803.3	723.9	663.4	618.0	574.1	529.5	490.1	465.9
40°	1055.2	894.8	824.5	769.3	683.8	624.8	587.0	545.4	501.5	465.9	442.5
42.5°	1031.0	867.6	794.2	728.4	644.5	583.9	548.4	515.1	477.3	442.5	421.3
45°	991.6	838.1	757.2	690.6	601.3	543.9	511.3	484.1	450.8	417.5	396.4
47.5°	936.4	795.7	717.8	651.3	559.0	500.7	468.2	447.8	421.3	393.3	375.2
50°	876.7	749.6	677.7	611.9	518.1	461.4	429.6	410.7	393.3	367.6	350.2
52.5°	798.8	700.4	631.6	568.8	474.3	419.8	391.8	378.2	360.0	341.9	326.8
55°	723.1	636.9	580.2	520.4	431.1	380.5	353.2	338.9	328.3	313.2	301.0
57.5°	635.4	577.9	525.7	471.2	391.1	344.9	319.2	301.8	295.0	288.2	276.8
60°	554.4	510.6	468.2	422.8	349.5	307.9	282.9	269.3	262.5	257.9	250.4
62.5°	480.3	446.3	410.0	373.7	307.1	269.3	250.4	236.8	230.7	229.9	223.1
65°	409.2	385.0	355.5	320.0	267.8	234.5	216.3	208.0	201.2	201.2	195.9
67.5°	338.1	321.5	298.0	273.1	232.2	201.2	184.6	177.0	173.2	173.2	169.4
70°	281.4	270.0	248.9	226.9	191.4	167.9	155.1	148.3	146.0	146.7	143.7
72.5°	228.4	216.3	198.9	183.0	156.6	139.2	130.1	122.5	118.8	119.5	118.8
75°	177.0	170.9	155.8	143.7	122.5	110.4	102.1	98.3	95.3	96.1	94.6
77.5°	133.1	124.1	115.7	107.4	94.6	84.7	77.9	74.1	71.9	71.9	71.9
80°	90.8	89.3	82.4	77.9	67.3	59.8	54.5	53.7	51.4	51.4	51.4
82.5°	59.0	55.2	51.4	48.4	42.4	37.8	35.6	34.0	33.3	32.5	34.0
85°	32.5	30.3	28.7	25.7	23.4	21.2	18.9	18.2	17.4	18.2	17.4
87.5°	12.9	10.6	10.6	9.8	9.1	8.3	8.3	6.8	6.8	6.1	6.1
90°	8.7	7.0	6.2	5.6	4.3	3.1	1.8	0.6	1.8	3.1	4.3
92.5°	11.3	10.2	9.6	10.0	10.7	11.5	12.2	13.0	12.2	11.5	10.7
95°	13.4	12.0	11.3	13.9	19.1	24.2	29.4	34.6	29.4	24.2	19.1
97.5°	37.4	43.8	47.0	48.8	52.3	55.8	59.4	62.9	59.4	55.8	52.3
100°	77.6	97.3	107.1	105.8	103.3	100.8	98.3	95.8	98.3	100.8	103.3
102.5°	107.6	129.5	140.5	139.7	138.1	136.4	134.8	133.2	134.8	136.4	138.1
105°	158.1	169.4	175.1	174.4	173.0	171.7	170.3	168.9	170.3	171.7	173.0
107.5°	214.8	212.9	212.0	211.4	210.3	209.2	208.0	206.9	208.0	209.2	210.3
110°	251.5	250.1	249.4	248.9	247.9	246.8	245.8	244.8	245.8	246.8	247.9

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.2	285.8	285.1	284.7	283.8	282.9	282.0	281.1	282.0	282.9	283.8
115°	321.9	320.8	320.2	319.8	319.1	318.3	317.6	316.8	317.6	318.3	319.1
117.5°	356.8	356.2	355.9	355.5	354.6	353.7	352.8	351.9	352.8	353.7	354.6
120°	389.9	389.5	389.3	388.7	387.6	386.5	385.3	384.2	385.3	386.5	387.6
122.5°	421.8	421.3	421.1	420.7	419.8	418.9	418.0	417.1	418.0	418.9	419.8
125°	451.9	451.4	451.1	450.6	449.6	448.6	447.6	446.6	447.6	448.6	449.6
127.5°	481.5	480.9	480.6	480.1	479.1	478.0	477.0	476.0	477.0	478.0	479.1
130°	508.5	508.0	507.8	507.3	506.3	505.2	504.2	503.2	504.2	505.2	506.3
132.5°	534.5	534.1	533.9	533.4	532.4	531.3	530.3	529.3	530.3	531.3	532.4
135°	560.1	559.6	559.4	559.0	558.3	557.5	556.8	556.0	556.8	557.5	558.3
137.5°	583.6	583.3	583.2	582.7	581.7	580.6	579.6	578.6	579.6	580.6	581.7
140°	605.3	604.9	604.7	604.3	603.6	602.8	602.1	601.3	602.1	602.8	603.6
142.5°	626.3	625.9	625.7	625.3	624.6	623.8	623.1	622.3	623.1	623.8	624.6
145°	645.9	645.6	645.5	645.1	644.2	643.3	642.4	641.5	642.4	643.3	644.2
147.5°	663.5	663.2	663.1	662.8	662.1	661.5	660.8	660.2	660.8	661.5	662.1
150°	679.3	679.0	678.9	678.7	678.3	678.0	677.6	677.2	677.6	678.0	678.3
152.5°	693.3	693.2	693.1	693.0	692.9	692.8	692.6	692.5	692.6	692.8	692.9
155°	705.8	705.7	705.6	705.7	706.0	706.2	706.5	706.7	706.5	706.2	706.0
157.5°	717.8	717.9	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
160°	727.5	727.6	727.7	727.8	727.9	728.0	728.1	728.2	728.1	728.0	727.9
162.5°	736.0	736.1	736.2	736.4	736.8	737.1	737.5	737.9	737.5	737.1	736.8
165°	743.3	743.4	743.5	743.7	744.1	744.4	744.8	745.2	744.8	744.4	744.1
167.5°	749.2	749.2	749.2	749.5	750.0	750.5	751.0	751.5	751.0	750.5	750.0
170°	754.3	754.3	754.3	754.6	755.1	755.6	756.1	756.6	756.1	755.6	755.1
172.5°	757.3	757.2	757.1	757.4	758.1	758.7	759.4	760.0	759.4	758.7	758.1
175°	760.2	760.1	760.0	760.3	760.9	761.6	762.2	762.8	762.2	761.6	760.9
177.5°	761.3	761.2	761.1	761.4	762.0	762.7	763.3	763.9	763.3	762.7	762.0
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	768.5	767.7	769.3	764.7	757.2	753.4	742.8	740.5	739.8	740.5	741.3
5°	747.3	746.6	744.3	736.7	727.7	720.9	708.0	707.2	702.7	698.2	700.4
7.5°	726.9	723.9	719.3	709.5	697.4	689.8	679.2	671.7	665.6	661.9	658.8
10°	706.5	701.9	697.4	684.5	669.4	658.1	645.2	639.2	632.4	629.3	626.3
12.5°	680.0	675.5	667.1	652.0	642.9	628.6	615.7	609.7	605.9	599.8	596.0
15°	658.8	649.8	645.2	629.3	610.4	608.9	585.5	583.9	576.4	576.4	570.3
17.5°	634.6	627.8	619.5	603.6	590.0	576.4	564.3	559.7	552.9	551.4	548.4
20°	611.2	602.1	599.1	583.2	568.8	552.2	539.3	534.8	531.8	528.7	531.0
22.5°	587.0	579.4	571.8	557.5	546.9	530.2	522.7	518.1	513.6	512.1	512.8
25°	563.5	556.7	549.1	534.8	523.4	509.8	503.0	500.7	498.5	498.5	497.7
27.5°	540.8	534.0	527.2	514.4	503.0	493.2	487.9	485.6	483.3	484.9	486.4
30°	517.4	511.3	505.3	493.9	484.9	475.8	472.8	471.2	470.5	474.3	474.3
32.5°	496.2	490.9	486.4	475.8	466.7	459.1	456.9	457.6	458.4	460.6	462.2
35°	474.3	470.5	465.9	456.9	449.3	442.5	443.3	443.3	444.8	448.5	451.6
37.5°	454.6	449.3	445.5	438.0	431.9	425.9	428.1	430.4	431.9	436.4	438.0
40°	431.1	428.9	425.9	418.3	413.0	412.2	413.0	414.5	417.5	419.8	422.1
42.5°	412.2	409.2	405.4	399.4	394.8	395.6	396.4	397.9	399.4	403.2	405.4
45°	391.1	388.8	385.8	380.5	376.7	377.4	378.2	378.2	379.7	384.3	385.8
47.5°	367.6	368.4	364.6	359.3	357.0	357.0	357.0	358.5	362.3	363.8	364.6
50°	344.9	343.4	342.7	337.4	335.8	335.1	335.8	336.6	341.9	341.1	343.4
52.5°	320.7	320.7	320.0	316.9	314.7	314.7	313.2	316.9	318.4	320.0	322.2
55°	297.3	295.0	294.2	292.7	289.7	288.9	290.5	295.0	296.5	298.0	300.3
57.5°	271.5	271.5	270.0	267.8	267.8	267.8	267.8	270.8	273.1	274.6	279.1
60°	248.1	245.1	242.8	242.8	242.8	242.0	246.6	246.6	251.1	251.9	253.4
62.5°	220.1	218.6	217.1	217.8	217.1	218.6	220.1	223.1	223.9	226.2	228.4
65°	193.6	193.6	192.1	196.7	193.6	193.6	197.4	197.4	198.9	201.2	204.2
67.5°	167.9	168.7	167.2	167.2	168.7	169.4	170.2	173.2	174.0	177.0	180.8
70°	141.4	143.0	143.7	142.2	143.7	145.2	146.7	147.5	150.5	152.0	154.3
72.5°	118.0	119.5	117.2	118.0	118.8	120.3	121.0	122.5	124.1	128.6	130.1
75°	94.6	93.8	93.0	96.1	94.6	97.6	98.3	98.3	99.8	103.6	105.1
77.5°	72.6	72.6	73.4	71.9	74.1	73.4	74.1	76.4	78.7	78.7	84.7
80°	50.7	52.2	52.2	52.2	52.9	53.7	52.2	56.0	56.7	56.7	59.0
82.5°	32.5	33.3	32.5	34.0	34.0	35.6	34.8	35.6	37.1	38.6	39.3
85°	17.4	17.4	18.9	18.9	18.2	18.9	18.2	18.9	20.4	20.4	21.2
87.5°	6.1	6.1	6.1	6.1	6.8	6.1	6.8	6.8	6.1	6.1	8.3
90°	5.6	6.2	7.0	8.7	10.3	12.0	13.6	14.1	14.6	15.1	15.6
92.5°	10.0	9.6	10.2	11.3	12.4	13.6	14.7	15.6	16.5	17.4	18.3
95°	13.9	11.3	12.0	13.4	14.8	16.2	17.6	18.5	19.3	20.2	21.1
97.5°	48.8	47.0	43.8	37.4	30.9	24.5	18.1	19.1	20.1	21.2	22.2
100°	105.8	107.1	97.3	77.6	58.0	38.3	18.7	19.7	20.7	21.7	22.7
102.5°	139.7	140.5	129.5	107.6	85.7	63.8	41.9	37.7	33.6	29.4	25.3
105°	174.4	175.1	169.4	158.1	146.8	135.4	124.1	101.8	79.5	57.2	34.9
107.5°	211.4	212.0	212.9	214.8	216.7	218.6	220.5	201.1	181.7	162.3	142.9
110°	248.9	249.4	250.1	251.5	252.8	254.2	255.6	251.4	247.3	243.1	239.0



TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.7	285.1	285.8	287.2	288.5	289.9	291.3	292.4	293.6	294.7	295.8
115°	319.8	320.2	320.8	321.9	323.0	324.2	325.3	326.6	327.8	329.1	330.4
117.5°	355.5	355.9	356.2	356.8	357.5	358.1	358.7	359.7	360.7	361.8	362.8
120°	388.7	389.3	389.5	389.9	390.2	390.6	391.0	392.0	393.0	394.1	395.1
122.5°	420.7	421.1	421.3	421.8	422.3	422.8	423.3	423.9	424.6	425.2	425.9
125°	450.6	451.1	451.4	451.9	452.4	452.9	453.4	453.6	453.9	454.1	454.4
127.5°	480.1	480.6	480.9	481.5	482.2	482.8	483.4	483.8	484.2	484.5	484.9
130°	507.3	507.8	508.0	508.5	509.0	509.5	510.0	510.5	511.0	511.5	512.0
132.5°	533.4	533.9	534.1	534.5	534.8	535.2	535.6	536.1	536.6	537.1	537.6
135°	559.0	559.4	559.6	560.1	560.6	561.1	561.6	562.0	562.4	562.7	563.1
137.5°	582.7	583.2	583.3	583.6	583.8	584.1	584.3	584.9	585.5	586.2	586.8
140°	604.3	604.7	604.9	605.3	605.6	606.0	606.4	606.9	607.4	607.9	608.4
142.5°	625.3	625.7	625.9	626.3	626.6	627.0	627.4	627.8	628.2	628.5	628.9
145°	645.1	645.5	645.6	645.9	646.1	646.4	646.6	646.9	647.1	647.4	647.7
147.5°	662.8	663.1	663.2	663.5	663.7	664.0	664.2	664.4	664.7	664.9	665.2
150°	678.7	678.9	679.0	679.3	679.6	679.8	680.1	680.3	680.6	680.8	681.1
152.5°	693.0	693.1	693.2	693.3	693.4	693.6	693.7	694.2	694.7	695.2	695.7
155°	705.7	705.6	705.7	705.8	705.9	706.0	706.1	706.7	707.4	708.0	708.7
157.5°	718.0	718.0	717.9	717.8	717.7	717.6	717.5	718.3	719.0	719.8	720.5
160°	727.8	727.7	727.6	727.5	727.4	727.2	727.1	727.9	728.6	729.4	730.1
162.5°	736.4	736.2	736.1	736.0	735.9	735.7	735.6	736.5	737.4	738.3	739.2
165°	743.7	743.5	743.4	743.3	743.2	743.1	743.0	744.0	745.0	746.0	747.0
167.5°	749.5	749.2	749.2	749.2	749.2	749.2	749.2	750.2	751.2	752.2	753.2
170°	754.6	754.3	754.3	754.3	754.3	754.3	754.3	755.3	756.3	757.3	758.3
172.5°	757.4	757.1	757.2	757.3	757.4	757.6	757.7	758.7	759.7	760.7	761.7
175°	760.3	760.0	760.1	760.2	760.3	760.4	760.5	761.4	762.3	763.2	764.1
177.5°	761.4	761.1	761.2	761.3	761.4	761.6	761.7	762.7	763.7	764.7	765.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	740.5	741.3	738.2	736.0	742.0	738.2	738.2	739.0	737.5	739.8	739.0
5°	698.9	699.7	694.4	695.9	692.9	692.1	691.4	695.9	695.1	694.4	695.9
7.5°	658.1	658.1	655.8	654.3	654.3	652.0	655.0	654.3	655.8	655.8	658.1
10°	624.0	625.5	621.8	618.0	617.2	618.0	618.0	618.7	619.5	624.8	624.0
12.5°	596.0	593.8	593.0	590.8	587.0	585.5	583.9	592.3	590.0	590.0	590.0
15°	565.0	570.3	569.6	562.8	561.3	564.3	562.8	562.8	570.3	569.6	568.8
17.5°	548.4	546.9	545.4	541.6	542.3	541.6	542.3	542.3	546.9	546.9	546.9
20°	529.5	526.5	526.5	524.9	524.9	522.7	525.7	526.5	529.5	529.5	530.2
22.5°	512.8	510.6	510.6	509.8	511.3	508.3	511.3	512.1	512.1	514.4	514.4
25°	498.5	497.0	497.0	498.5	498.5	498.5	498.5	501.5	499.2	500.0	499.2
27.5°	485.6	486.4	487.1	487.9	487.1	487.9	488.6	490.1	490.9	490.1	488.6
30°	473.5	475.8	476.5	476.5	478.0	478.8	479.6	479.6	480.3	478.0	479.6
32.5°	464.4	464.4	465.9	466.7	468.2	469.0	469.0	470.5	469.7	467.5	468.2
35°	451.6	451.6	454.6	456.1	458.4	457.6	458.4	458.4	459.1	457.6	455.4
37.5°	438.7	440.2	440.2	443.3	444.0	444.8	444.0	445.5	444.8	443.3	442.5
40°	423.6	422.8	423.6	425.9	426.6	426.6	426.6	428.1	428.1	428.1	427.4
42.5°	404.7	406.9	406.2	408.5	407.7	407.7	409.2	410.7	411.5	409.2	410.0
45°	386.5	386.5	388.0	388.0	388.8	388.8	391.8	390.3	391.8	390.3	391.1
47.5°	366.9	367.6	367.6	368.4	369.9	371.4	369.9	370.6	370.6	371.4	369.9
50°	344.9	344.9	346.4	348.7	351.7	350.2	349.5	352.5	350.2	350.2	348.7
52.5°	322.2	324.5	325.3	327.5	329.8	330.5	331.3	329.8	330.5	328.3	329.0
55°	300.3	301.0	304.1	306.3	308.6	308.6	307.9	308.6	309.4	306.3	306.3
57.5°	278.4	280.6	283.7	283.7	286.7	286.7	285.9	285.9	286.7	284.4	283.7
60°	254.9	257.2	261.0	261.0	265.5	266.3	264.7	263.2	263.2	261.0	261.7
62.5°	229.9	232.2	234.5	238.3	241.3	239.8	242.8	239.8	240.5	236.0	236.0
65°	208.0	208.8	212.5	216.3	216.3	217.8	216.3	217.1	214.8	214.8	211.8
67.5°	182.3	182.3	186.1	189.9	193.6	193.6	193.6	191.4	191.4	189.1	189.1
70°	159.6	158.8	162.6	164.9	167.2	167.9	166.4	165.7	164.1	161.9	161.1
72.5°	131.6	133.1	136.9	138.4	142.2	141.4	145.2	140.7	140.7	136.9	136.2
75°	106.7	108.2	111.9	114.2	116.5	116.5	118.8	116.5	113.5	111.9	111.2
77.5°	84.7	84.0	87.0	90.8	91.5	90.8	92.3	91.5	88.5	88.5	87.0
80°	60.5	62.8	65.8	65.1	68.1	67.3	67.3	65.8	65.8	63.5	65.1
82.5°	40.1	42.4	43.1	42.4	43.1	44.6	45.4	44.6	44.6	43.1	43.9
85°	21.2	21.2	22.7	23.4	22.7	22.7	23.4	25.7	24.2	22.7	24.2
87.5°	6.8	6.1	6.1	6.8	6.1	6.1	6.8	6.8	7.6	7.6	7.6
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	18.7	18.8	18.9	19.0	19.2	19.3	19.2	19.0	18.9	18.8	18.7
95°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	22.7	22.8	22.9	23.0	23.1	23.2	23.1	23.0	22.9	22.8	22.7
100°	23.2	23.3	23.4	23.5	23.7	23.8	23.7	23.5	23.4	23.3	23.2
102.5°	23.2	23.3	23.6	23.9	24.1	24.4	24.1	23.9	23.6	23.3	23.2
105°	23.8	23.9	24.2	24.4	24.7	24.9	24.7	24.4	24.2	23.9	23.8
107.5°	133.2	124.9	108.4	91.9	75.4	58.9	75.4	91.9	108.4	124.9	133.2
110°	236.9	227.9	209.9	191.8	173.8	155.8	173.8	191.8	209.9	227.9	236.9

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	296.4	296.3	296.0	295.8	295.5	295.3	295.5	295.8	296.0	296.3	296.4
115°	331.0	331.2	331.7	332.2	332.7	333.2	332.7	332.2	331.7	331.2	331.0
117.5°	363.3	363.4	363.5	363.6	363.7	363.8	363.7	363.6	363.5	363.4	363.3
120°	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	426.2	426.3	426.4	426.5	426.6	426.7	426.6	426.5	426.4	426.3	426.2
125°	454.5	454.6	454.9	455.1	455.4	455.6	455.4	455.1	454.9	454.6	454.5
127.5°	485.1	485.0	484.7	484.5	484.2	484.0	484.2	484.5	484.7	485.0	485.1
130°	512.3	512.2	511.9	511.7	511.4	511.2	511.4	511.7	511.9	512.2	512.3
132.5°	537.8	537.6	537.2	536.9	536.5	536.1	536.5	536.9	537.2	537.6	537.8
135°	563.3	563.1	562.7	562.4	562.0	561.6	562.0	562.4	562.7	563.1	563.3
137.5°	587.1	587.0	586.7	586.5	586.2	586.0	586.2	586.5	586.7	587.0	587.1
140°	608.7	608.6	608.3	608.0	607.8	607.5	607.8	608.0	608.3	608.6	608.7
142.5°	629.1	628.9	628.5	628.2	627.8	627.4	627.8	628.2	628.5	628.9	629.1
145°	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	665.3	665.0	664.4	663.7	663.1	662.5	663.1	663.7	664.4	665.0	665.3
150°	681.2	681.0	680.6	680.3	679.9	679.5	679.9	680.3	680.6	681.0	681.2
152.5°	695.9	695.6	695.0	694.3	693.7	693.1	693.7	694.3	695.0	695.6	695.9
155°	709.0	708.6	707.9	707.1	706.4	705.6	706.4	707.1	707.9	708.6	709.0
157.5°	720.9	720.4	719.4	718.3	717.3	716.3	717.3	718.3	719.4	720.4	720.9
160°	730.5	730.1	729.2	728.3	727.4	726.5	727.4	728.3	729.2	730.1	730.5
162.5°	739.6	739.2	738.5	737.7	737.0	736.2	737.0	737.7	738.5	739.2	739.6
165°	747.5	747.1	746.2	745.3	744.4	743.5	744.4	745.3	746.2	747.1	747.5
167.5°	753.7	753.2	752.2	751.2	750.2	749.2	750.2	751.2	752.2	753.2	753.7
170°	758.8	758.3	757.3	756.3	755.3	754.3	755.3	756.3	757.3	758.3	758.8
172.5°	762.2	761.6	760.5	759.4	758.2	757.1	758.2	759.4	760.5	761.6	762.2
175°	764.5	764.0	763.0	762.0	761.0	760.0	761.0	762.0	763.0	764.0	764.5
177.5°	766.2	765.6	764.3	763.0	761.8	760.5	761.8	763.0	764.3	765.6	766.2
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6	780.6
2.5°	741.3	742.8	743.5	740.5	738.2	742.0	747.3	751.1	754.1	757.9	760.2
5°	697.4	702.7	702.7	704.2	706.5	710.3	720.1	726.9	733.0	737.5	741.3
7.5°	660.3	664.1	666.4	670.2	674.0	679.2	690.6	700.4	709.5	714.8	720.9
10°	627.1	630.1	633.9	636.1	642.9	650.5	664.9	673.2	683.8	692.1	699.7
12.5°	595.3	605.9	608.1	607.4	613.4	621.8	636.1	649.0	660.3	668.7	677.0
15°	572.6	576.4	580.9	580.2	593.0	595.3	607.4	622.5	637.6	642.9	650.5
17.5°	547.6	553.7	558.2	560.5	564.3	572.6	583.9	595.3	615.0	615.7	635.4
20°	528.0	534.0	537.0	540.1	542.3	552.2	562.0	574.9	590.8	599.1	609.7
22.5°	515.1	518.1	520.4	522.7	525.7	531.0	543.1	557.5	568.1	577.1	583.9
25°	500.0	503.0	506.0	507.5	509.8	512.8	521.9	533.3	548.4	554.4	561.3
27.5°	489.4	489.4	490.9	490.9	493.9	497.0	503.8	514.4	526.5	534.0	543.1
30°	478.0	477.3	478.0	477.3	476.5	481.1	487.1	496.2	504.5	513.6	519.6
32.5°	466.7	465.9	465.9	466.7	463.7	465.9	469.0	477.3	486.4	490.9	497.7
35°	454.6	453.1	453.1	453.1	451.6	450.1	453.1	460.6	466.7	472.8	478.0
37.5°	442.5	440.2	440.2	438.7	437.2	434.9	434.9	441.0	449.3	451.6	458.4
40°	425.9	425.9	424.3	423.6	422.1	420.6	418.3	423.6	431.1	433.4	438.7
42.5°	409.2	406.9	406.2	406.2	406.2	403.9	402.4	406.2	410.7	414.5	417.5
45°	390.3	388.8	389.5	388.8	387.3	386.5	385.8	387.3	392.6	394.1	397.9
47.5°	369.9	369.1	369.1	368.4	367.6	368.4	365.3	369.1	370.6	372.2	375.2
50°	348.7	347.9	347.2	346.4	346.4	347.2	346.4	346.4	349.5	351.0	354.0
52.5°	327.5	325.3	325.3	324.5	324.5	323.0	324.5	325.3	326.8	328.3	329.8
55°	304.8	304.8	302.6	302.6	301.0	301.0	301.8	301.0	304.1	305.6	305.6
57.5°	282.9	279.9	280.6	279.1	277.6	276.8	276.8	278.4	279.9	279.9	281.4
60°	259.4	256.4	255.7	252.6	254.2	251.9	252.6	252.6	255.7	254.2	255.7
62.5°	236.0	232.2	229.9	228.4	228.4	229.2	227.7	226.9	228.4	229.9	233.0
65°	211.0	208.8	206.5	204.2	204.2	203.5	205.0	202.7	202.0	202.7	204.2
67.5°	185.3	183.0	180.8	178.5	179.3	177.0	175.5	177.8	176.2	177.0	178.5
70°	160.4	158.8	154.3	152.8	152.0	152.8	152.0	150.5	152.8	152.0	152.8
72.5°	135.4	133.9	131.6	127.8	127.8	127.1	126.3	126.3	125.6	125.6	125.6
75°	111.2	108.2	105.9	105.1	103.6	102.9	102.1	100.6	101.4	102.1	100.6
77.5°	86.2	82.4	81.7	81.7	79.4	79.4	80.2	79.4	78.7	78.7	78.7
80°	63.5	60.5	60.5	59.0	57.5	57.5	57.5	57.5	56.7	56.0	56.7
82.5°	40.8	40.1	39.3	39.3	40.8	37.8	39.3	38.6	37.8	37.8	37.1
85°	22.7	23.4	22.7	23.4	21.9	22.7	22.7	22.7	21.9	22.7	21.2
87.5°	8.3	8.3	8.3	9.1	9.1	9.1	9.1	9.1	9.8	9.1	9.1
90°	15.6	15.1	14.6	14.1	13.6	12.0	10.3	8.7	7.0	6.2	5.6
92.5°	18.3	17.4	16.5	15.6	14.7	13.6	12.4	11.3	10.2	9.6	10.0
95°	21.1	20.2	19.3	18.5	17.6	16.2	14.8	13.4	12.0	11.3	13.9
97.5°	22.2	21.2	20.1	19.1	18.1	24.5	30.9	37.4	43.8	47.0	48.8
100°	22.7	21.7	20.7	19.7	18.7	38.3	58.0	77.6	97.3	107.1	105.8
102.5°	25.3	29.4	33.6	37.7	41.9	63.8	85.7	107.6	129.5	140.5	139.7
105°	34.9	57.2	79.5	101.8	124.1	135.4	146.8	158.1	169.4	175.1	174.4
107.5°	142.9	162.3	181.7	201.1	220.5	218.6	216.7	214.8	212.9	212.0	211.4
110°	239.0	243.1	247.3	251.4	255.6	254.2	252.8	251.5	250.1	249.4	248.9

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	295.8	294.7	293.6	292.4	291.3	289.9	288.5	287.2	285.8	285.1	284.7
115°	330.4	329.1	327.8	326.6	325.3	324.2	323.0	321.9	320.8	320.2	319.8
117.5°	362.8	361.8	360.7	359.7	358.7	358.1	357.5	356.8	356.2	355.9	355.5
120°	395.1	394.1	393.0	392.0	391.0	390.6	390.2	389.9	389.5	389.3	388.7
122.5°	425.9	425.2	424.6	423.9	423.3	422.8	422.3	421.8	421.3	421.1	420.7
125°	454.4	454.1	453.9	453.6	453.4	452.9	452.4	451.9	451.4	451.1	450.6
127.5°	484.9	484.5	484.2	483.8	483.4	482.8	482.2	481.5	480.9	480.6	480.1
130°	512.0	511.5	511.0	510.5	510.0	509.5	509.0	508.5	508.0	507.8	507.3
132.5°	537.6	537.1	536.6	536.1	535.6	535.2	534.8	534.5	534.1	533.9	533.4
135°	563.1	562.7	562.4	562.0	561.6	561.1	560.6	560.1	559.6	559.4	559.0
137.5°	586.8	586.2	585.5	584.9	584.3	584.1	583.8	583.6	583.3	583.2	582.7
140°	608.4	607.9	607.4	606.9	606.4	606.0	605.6	605.3	604.9	604.7	604.3
142.5°	628.9	628.5	628.2	627.8	627.4	627.0	626.6	626.3	625.9	625.7	625.3
145°	647.7	647.4	647.1	646.9	646.6	646.4	646.1	645.9	645.6	645.5	645.1
147.5°	665.2	664.9	664.7	664.4	664.2	664.0	663.7	663.5	663.2	663.1	662.8
150°	681.1	680.8	680.6	680.3	680.1	679.8	679.6	679.3	679.0	678.9	678.7
152.5°	695.7	695.2	694.7	694.2	693.7	693.6	693.4	693.3	693.2	693.1	693.0
155°	708.7	708.0	707.4	706.7	706.1	706.0	705.9	705.8	705.7	705.6	705.7
157.5°	720.5	719.8	719.0	718.3	717.5	717.6	717.7	717.8	717.9	718.0	718.0
160°	730.1	729.4	728.6	727.9	727.1	727.2	727.4	727.5	727.6	727.7	727.8
162.5°	739.2	738.3	737.4	736.5	735.6	735.7	735.9	736.0	736.1	736.2	736.4
165°	747.0	746.0	745.0	744.0	743.0	743.1	743.2	743.3	743.4	743.5	743.7
167.5°	753.2	752.2	751.2	750.2	749.2	749.2	749.2	749.2	749.2	749.2	749.5
170°	758.3	757.3	756.3	755.3	754.3	754.3	754.3	754.3	754.3	754.3	754.6
172.5°	761.7	760.7	759.7	758.7	757.7	757.6	757.4	757.3	757.2	757.1	757.4
175°	764.1	763.2	762.3	761.4	760.5	760.4	760.3	760.2	760.1	760.0	760.3
177.5°	765.7	764.7	763.7	762.7	761.7	761.6	761.4	761.3	761.2	761.1	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	780.6	780.6	780.6	780.6
2.5°	764.0	766.2	773.8	782.9
5°	748.8	754.9	765.5	779.9
7.5°	732.2	741.3	756.4	774.6
10°	713.3	726.1	745.1	767.7
12.5°	692.9	709.5	733.7	757.2
15°	680.0	696.6	718.6	744.3
17.5°	655.0	674.7	697.4	733.7
20°	629.3	651.3	680.8	717.1
22.5°	609.7	633.1	661.1	699.7
25°	586.2	610.4	640.7	680.8
27.5°	561.3	585.5	619.5	661.9
30°	542.3	565.8	598.3	643.7
32.5°	519.6	542.3	576.4	624.0
35°	493.9	519.6	552.2	600.6
37.5°	474.3	497.7	531.8	577.9
40°	453.1	473.5	506.8	552.2
42.5°	430.4	453.1	481.8	527.2
45°	409.2	425.9	455.4	498.5
47.5°	386.5	405.4	428.1	461.4
50°	362.3	378.2	403.2	425.9
52.5°	338.9	351.7	372.9	390.3
55°	313.9	326.8	342.7	353.2
57.5°	290.5	299.5	310.1	316.9
60°	261.7	270.8	277.6	284.4
62.5°	236.0	242.8	246.6	250.4
65°	209.5	213.3	215.6	218.6
67.5°	180.8	184.6	185.3	189.9
70°	154.3	155.1	156.6	158.8
72.5°	129.3	130.9	130.1	131.6
75°	103.6	105.1	103.6	105.1
77.5°	78.7	80.2	80.2	82.4
80°	56.7	57.5	58.2	58.2
82.5°	37.1	39.3	37.8	38.6
85°	21.2	21.9	21.9	22.7
87.5°	9.8	10.6	9.8	11.3
90°	4.3	3.1	1.8	0.6
92.5°	10.7	11.5	12.2	13.0
95°	19.1	24.2	29.4	34.6
97.5°	52.3	55.8	59.4	62.9
100°	103.3	100.8	98.3	95.8
102.5°	138.1	136.4	134.8	133.2
105°	173.0	171.7	170.3	168.9
107.5°	210.3	209.2	208.0	206.9
110°	247.9	246.8	245.8	244.8



TEST NUMBER: P1010664

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	283.8	282.9	282.0	281.1
115°	319.1	318.3	317.6	316.8
117.5°	354.6	353.7	352.8	351.9
120°	387.6	386.5	385.3	384.2
122.5°	419.8	418.9	418.0	417.1
125°	449.6	448.6	447.6	446.6
127.5°	479.1	478.0	477.0	476.0
130°	506.3	505.2	504.2	503.2
132.5°	532.4	531.3	530.3	529.3
135°	558.3	557.5	556.8	556.0
137.5°	581.7	580.6	579.6	578.6
140°	603.6	602.8	602.1	601.3
142.5°	624.6	623.8	623.1	622.3
145°	644.2	643.3	642.4	641.5
147.5°	662.1	661.5	660.8	660.2
150°	678.3	678.0	677.6	677.2
152.5°	692.9	692.8	692.6	692.5
155°	706.0	706.2	706.5	706.7
157.5°	718.0	718.0	718.0	718.0
160°	727.9	728.0	728.1	728.2
162.5°	736.8	737.1	737.5	737.9
165°	744.1	744.4	744.8	745.2
167.5°	750.0	750.5	751.0	751.5
170°	755.1	755.6	756.1	756.6
172.5°	758.1	758.7	759.4	760.0
175°	760.9	761.6	762.2	762.8
177.5°	762.0	762.7	763.3	763.9
180°	762.8	762.8	762.8	762.8

(END OF REPORT)