

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: P1029513

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029513
REPORT IS A COMBINATION OF REPORTS P986117 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

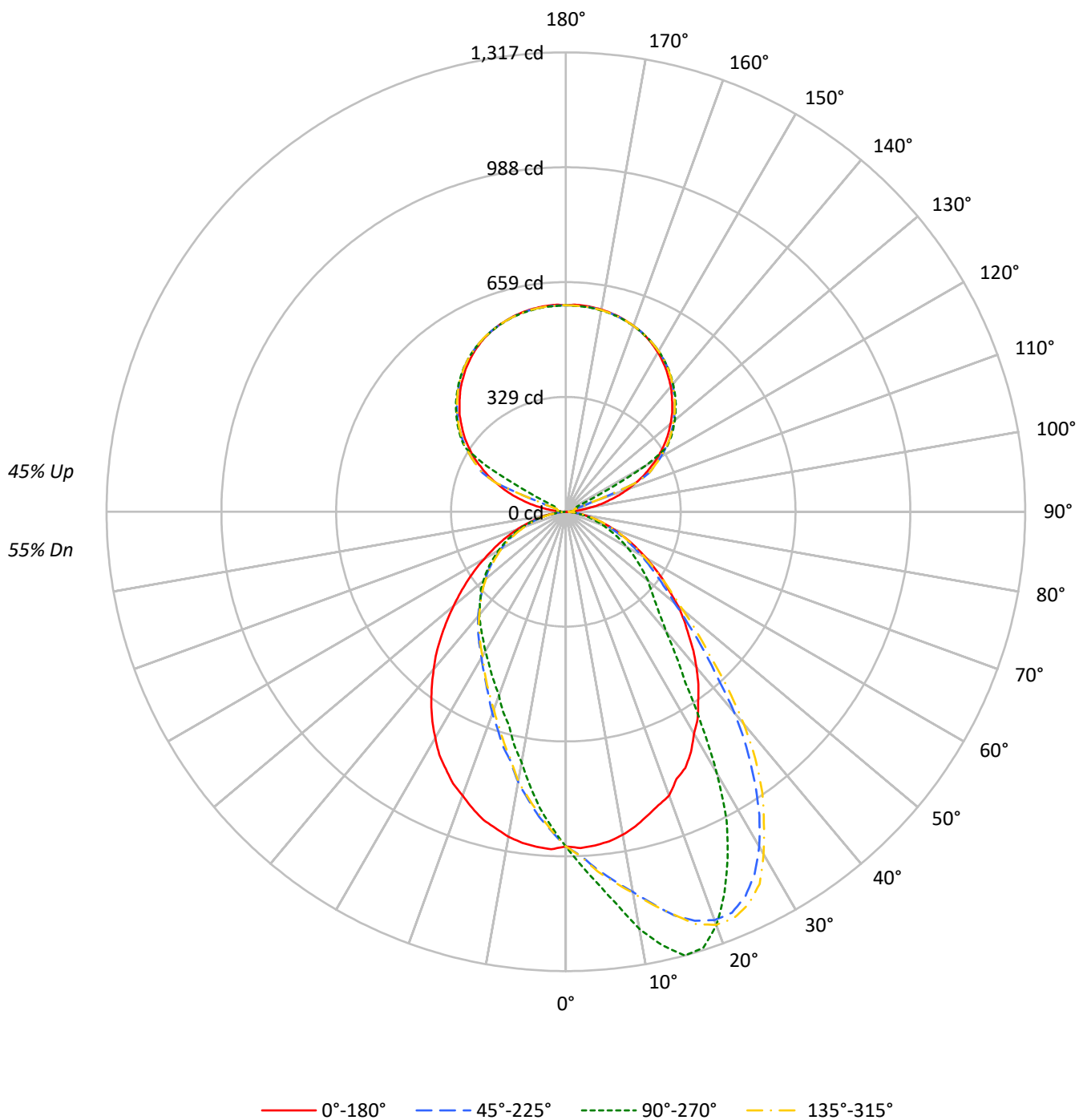
Lumens per Lamp: N/A
Luminaire Lumens: 3854.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-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
RCR																	
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	49	47	45
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	44	41	39
4	77	66	58	52	71	62	55	50	54	48	44	46	42	39	39	36	34
5	70	59	51	45	65	55	48	43	48	43	39	42	38	34	36	32	30
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	44	36	31	52	41	35	30	37	31	27	32	27	24	28	24	22
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15188	15188	15188	15188
5°	15226	16194	15283	12885
10°	15048	17679	15142	10622
15°	14683	18647	14887	8948
20°	14455	17508	14455	7777
25°	13993	15041	14057	6954
30°	13236	11824	13488	6300
35°	12565	8176	12774	5763
40°	11791	6173	11927	5336
45°	10841	5073	11018	4875
50°	10017	4452	10037	4463
55°	9078	3794	9140	4015
60°	8078	3169	8190	3505
65°	7185	2577	7316	2993
70°	6293	2022	6453	2413
75°	5281	1468	5488	1751
80°	4120	931	4415	1039
85°	2712	468	2924	348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15700 cd/sqm

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.4
10°-20°	266.0	6.9
20°-30°	386.1	10.0
30°-40°	407.0	10.6
40°-50°	360.1	9.3
50°-60°	287.6	7.5
60°-70°	195.3	5.1
70°-80°	99.9	2.6
80°-90°	24.7	0.6
90°-100°	19.5	0.5
100°-110°	72.8	1.9
110°-120°	193.0	5.0
120°-130°	320.2	8.3
130°-140°	340.1	8.8
140°-150°	316.1	8.2
150°-160°	254.1	6.6
160°-170°	163.8	4.2
170°-180°	56.4	1.5
0°-30°	743.5	19.3
0°-40°	1150.4	29.9
0°-60°	1798.1	46.7
0°-90°	2118.0	55.0
90°-120°	285.4	7.4
90°-150°	1261.7	32.7
90°-180°	1736.0	45.0
0°-180°	3854.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	960	960	960	960	960	
5°	960	1072	964	853	960	91
15°	902	1317	914	632	902	255
25°	810	1097	814	507	810	371
35°	662	597	673	421	662	414
45°	496	360	504	346	496	385
55°	341	253	343	268	341	304
65°	202	156	206	181	202	201
75°	94	77	98	92	94	101
85°	19	20	21	15	19	22
90°	0	12	0	12	0	3
95°	28	18	28	18	28	33
105°	130	33	130	33	130	139
115°	246	35	246	35	246	243
125°	348	366	348	366	348	311
135°	431	445	431	445	431	333
145°	500	508	500	508	500	313
155°	551	551	551	551	551	254
165°	580	579	580	579	580	164
175°	593	590	593	590	593	56
180°	592	592	592	592	592	

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	964.7	966.9	970.6	971.3	978.7	984.6	991.2	991.2	993.4	992.7	986.8
5°	960.3	966.9	976.5	984.6	997.9	1003.8	1012.6	1019.3	1025.2	1029.6	1028.9
7.5°	952.9	964.7	978.7	994.2	1011.9	1022.2	1034.8	1046.6	1054.7	1062.0	1067.2
10°	940.3	960.3	979.4	1000.1	1023.0	1037.0	1051.7	1067.2	1079.7	1093.8	1107.0
12.5°	923.4	952.1	975.7	1003.0	1031.1	1046.6	1070.2	1082.0	1106.3	1141.7	1151.3
15°	902.0	941.1	963.2	997.9	1034.8	1047.3	1079.7	1098.9	1149.1	1171.2	1197.7
17.5°	882.1	925.6	955.1	994.9	1031.1	1055.4	1087.1	1126.2	1168.2	1200.0	1229.5
20°	865.9	907.9	943.3	987.5	1033.3	1064.3	1097.4	1144.6	1190.4	1222.8	1245.7
22.5°	829.0	882.8	924.1	973.5	1028.9	1071.6	1103.3	1155.0	1204.4	1224.3	1244.2
25°	810.5	857.0	904.9	961.0	1025.9	1076.8	1104.1	1161.6	1205.1	1212.5	1216.9
27.5°	776.6	829.0	885.0	949.2	1025.2	1067.9	1102.6	1155.0	1189.6	1184.5	1171.2
30°	734.6	798.7	860.7	930.0	1014.8	1061.3	1093.8	1141.7	1159.4	1132.8	1109.2
32.5°	703.6	764.1	832.7	913.1	1003.0	1047.3	1079.0	1116.6	1120.3	1072.4	1032.5
35°	661.6	728.7	806.1	890.9	983.1	1023.0	1052.5	1075.3	1057.6	990.5	943.3
37.5°	623.9	690.3	772.9	859.2	955.8	994.9	1018.5	1022.2	978.7	919.7	850.4
40°	582.6	651.2	737.5	828.2	925.6	959.5	974.3	963.2	900.5	831.9	751.5
42.5°	541.3	609.2	702.1	795.1	887.2	916.0	921.9	891.7	815.0	734.6	641.6
45°	496.4	567.2	660.1	753.8	843.0	859.2	860.0	816.4	725.7	641.6	555.4
47.5°	459.5	525.1	617.3	711.0	786.2	797.3	792.8	742.7	643.9	549.5	474.2
50°	418.9	481.6	573.1	665.2	729.4	732.4	721.3	649.8	553.1	466.9	407.1
52.5°	375.4	438.8	522.9	611.4	668.9	664.5	643.1	566.4	475.7	404.2	358.4
55°	340.7	396.8	475.7	562.0	602.6	590.0	566.4	488.2	416.7	356.2	316.4
57.5°	302.4	351.8	429.2	504.5	528.1	516.3	492.7	419.7	353.3	307.5	281.0
60°	266.2	311.2	379.1	441.8	460.2	447.7	420.4	354.8	306.8	268.5	248.5
62.5°	233.1	272.1	328.9	386.5	393.8	381.3	357.7	304.6	263.3	233.1	218.3
65°	202.1	239.0	284.7	328.2	334.8	321.6	297.2	258.9	224.2	205.0	191.0
67.5°	171.8	201.3	241.9	273.6	277.3	264.8	244.9	213.9	192.5	171.8	161.5
70°	145.3	167.4	199.1	224.9	226.4	214.6	204.3	176.3	160.0	145.3	137.2
72.5°	119.5	135.0	159.3	178.5	179.2	171.8	162.3	144.6	130.5	120.2	112.1
75°	94.4	107.7	122.4	139.4	138.7	132.8	125.4	114.3	102.5	95.9	92.2
77.5°	72.3	80.4	92.2	103.3	103.3	100.3	95.9	87.8	80.4	73.8	70.1
80°	51.6	56.8	66.4	70.1	71.5	70.8	67.1	61.2	58.3	53.1	51.6
82.5°	33.2	36.9	41.3	45.0	47.2	45.7	45.0	42.0	37.6	36.1	34.7
85°	19.2	20.7	22.9	25.1	25.8	25.1	26.6	24.3	22.1	22.1	21.4
87.5°	8.1	8.9	10.3	10.3	11.1	11.1	10.3	11.1	11.1	10.3	9.6
90°	0.4	1.4	2.5	3.5	4.6	5.1	5.5	6.3	7.0	7.8	8.6
92.5°	10.7	10.3	9.9	9.6	9.2	9.0	9.1	9.4	9.7	10.0	10.3
95°	27.9	24.7	21.6	18.4	15.3	13.7	14.0	14.7	15.4	16.0	16.7
97.5°	50.1	42.3	34.5	26.7	18.9	15.0	15.8	17.3	18.8	20.4	21.9
100°	75.8	62.8	49.7	36.7	23.6	17.1	17.9	19.5	21.2	22.8	24.4
102.5°	104.1	103.9	103.7	103.6	103.4	103.3	94.6	77.3	60.0	42.6	25.3
105°	130.3	133.1	136.0	138.8	141.7	143.1	130.1	104.1	78.1	52.1	26.1
107.5°	160.7	163.1	165.5	167.8	170.2	171.4	155.4	123.3	91.2	59.1	27.0
110°	189.8	191.8	193.8	195.8	197.8	198.8	185.0	157.5	130.0	102.5	75.0

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	217.2	218.9	220.6	222.3	224.0	224.9	224.1	222.5	220.9	219.3	217.7
115°	246.4	248.0	249.6	251.3	252.9	253.7	254.9	257.3	259.6	262.0	264.4
117.5°	271.6	273.5	275.4	277.3	279.2	280.2	281.0	282.6	284.3	285.9	287.5
120°	299.9	301.3	302.8	304.2	305.7	306.4	307.3	309.0	310.7	312.4	314.1
122.5°	323.9	325.4	327.0	328.5	330.0	330.8	331.7	333.6	335.5	337.4	339.3
125°	348.3	349.5	350.8	352.0	353.3	353.9	354.8	356.6	358.5	360.3	362.1
127.5°	370.6	371.9	373.3	374.6	375.9	376.6	377.3	378.8	380.2	381.7	383.1
130°	391.6	393.1	394.7	396.2	397.7	398.5	399.0	400.1	401.1	402.2	403.2
132.5°	413.0	414.2	415.5	416.7	418.0	418.6	419.1	420.2	421.2	422.3	423.3
135°	431.0	432.5	434.1	435.6	437.1	437.9	438.3	439.2	440.1	440.9	441.8
137.5°	449.9	451.0	452.2	453.3	454.4	455.0	455.5	456.4	457.4	458.3	459.3
140°	468.3	469.1	469.8	470.6	471.3	471.7	472.2	473.3	474.4	475.4	476.5
142.5°	483.7	484.4	485.0	485.7	486.4	486.7	487.3	488.6	489.8	491.1	492.3
145°	500.0	499.9	499.8	499.7	499.6	499.6	500.4	502.0	503.7	505.3	506.9
147.5°	514.2	513.9	513.6	513.3	513.0	512.9	513.7	515.3	517.0	518.6	520.2
150°	527.9	527.2	526.6	525.9	525.2	524.9	525.7	527.2	528.7	530.2	531.7
152.5°	539.4	538.6	537.9	537.1	536.4	536.0	536.7	538.1	539.6	541.0	542.4
155°	550.6	549.7	548.9	548.0	547.1	546.7	547.3	548.4	549.6	550.7	551.9
157.5°	559.6	558.8	558.1	557.3	556.6	556.2	556.6	557.5	558.3	559.2	560.0
160°	567.3	566.7	566.1	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3
162.5°	574.1	573.5	573.0	572.4	571.9	571.6	571.8	572.3	572.8	573.2	573.7
165°	580.1	579.5	579.0	578.4	577.9	577.6	577.7	578.0	578.3	578.6	578.9
167.5°	584.9	584.3	583.7	583.2	582.6	582.3	582.4	582.7	583.0	583.3	583.6
170°	588.7	588.1	587.5	587.0	586.4	586.1	586.2	586.4	586.6	586.8	587.0
172.5°	591.3	590.7	590.1	589.6	589.0	588.7	588.8	589.0	589.2	589.4	589.6
175°	593.4	592.7	592.1	591.4	590.7	590.4	590.5	590.7	590.9	591.1	591.3
177.5°	594.3	593.6	593.0	592.3	591.6	591.3	591.3	591.4	591.5	591.6	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	997.1	997.9	999.3	1006.7	1010.4	1011.1	1008.2	1014.8	1017.1	1014.8	1013.4
5°	1044.3	1048.8	1057.6	1067.2	1066.5	1067.2	1071.6	1076.1	1077.5	1071.6	1073.8
7.5°	1085.6	1094.5	1104.1	1118.8	1118.8	1126.2	1129.2	1132.8	1141.7	1137.3	1135.8
10°	1132.8	1144.6	1162.3	1185.9	1186.7	1194.1	1201.4	1213.2	1216.9	1214.0	1215.4
12.5°	1191.8	1214.7	1216.2	1242.0	1253.8	1255.3	1267.1	1264.9	1272.2	1272.2	1284.8
15°	1217.7	1253.1	1273.0	1298.0	1305.4	1296.6	1306.2	1316.5	1317.2	1317.2	1316.5
17.5°	1264.1	1278.1	1298.0	1311.3	1314.3	1314.3	1315.0	1319.4	1316.5	1310.6	1315.0
20°	1273.7	1279.6	1287.0	1285.5	1287.0	1279.6	1272.2	1264.9	1265.6	1261.9	1273.0
22.5°	1256.0	1254.5	1237.6	1226.5	1226.5	1211.8	1197.7	1191.1	1184.5	1186.7	1190.4
25°	1211.8	1188.9	1168.2	1152.0	1148.3	1124.7	1105.6	1099.7	1088.6	1097.4	1098.9
27.5°	1141.0	1115.1	1082.0	1067.9	1048.8	1039.2	1025.9	1008.2	985.3	998.6	996.4
30°	1065.0	1026.6	999.3	965.4	935.2	933.0	907.9	878.4	866.6	866.6	873.2
32.5°	980.2	929.3	889.5	841.5	812.0	799.5	769.2	739.7	746.4	724.3	732.4
35°	881.3	814.2	764.1	717.6	695.5	680.7	641.6	625.4	607.7	597.4	616.6
37.5°	786.9	709.5	645.3	594.4	586.3	559.8	533.2	522.9	512.6	517.0	516.3
40°	671.9	603.3	545.8	505.9	491.9	479.4	461.7	449.2	442.5	446.2	446.9
42.5°	567.9	510.4	467.6	439.6	427.8	418.9	410.1	399.7	397.5	397.5	400.5
45°	487.5	440.3	411.5	388.7	382.0	375.4	368.8	364.3	362.9	359.9	362.1
47.5°	423.3	385.7	368.0	351.1	343.7	342.2	336.3	334.1	331.1	330.4	331.1
50°	369.5	345.9	329.7	320.1	314.9	312.7	309.8	305.3	303.9	307.5	306.1
52.5°	331.9	309.8	300.9	291.3	288.4	285.4	281.0	281.7	281.0	279.5	279.5
55°	294.3	280.3	271.4	264.0	263.3	260.3	256.7	255.2	254.4	253.0	255.2
57.5°	264.0	253.0	244.9	238.2	235.3	235.3	231.6	228.6	228.6	227.9	228.6
60°	233.8	222.7	217.6	210.9	208.7	208.0	205.8	204.3	202.1	202.1	202.1
62.5°	205.8	196.9	191.0	185.1	185.9	182.2	179.2	177.7	177.7	178.5	178.5
65°	179.2	173.3	165.9	160.8	159.3	158.6	157.1	156.4	154.1	155.6	155.6
67.5°	154.9	146.8	142.3	140.1	137.9	137.2	135.7	134.2	133.5	132.8	134.2
70°	130.5	123.9	120.2	118.7	116.5	115.8	115.1	112.8	113.6	114.3	115.1
72.5°	108.4	102.5	101.8	97.4	97.4	97.4	94.4	95.9	95.1	93.7	95.1
75°	85.6	82.6	81.1	78.9	79.7	78.9	78.2	76.0	76.0	76.7	77.4
77.5°	67.9	64.9	64.2	62.0	60.5	62.0	60.5	59.7	59.7	60.5	60.5
80°	50.2	48.7	46.5	46.5	46.5	45.7	45.7	45.7	45.0	44.3	45.0
82.5°	33.2	33.2	32.5	31.7	32.5	31.0	31.7	31.7	31.7	31.7	31.7
85°	21.4	20.7	20.7	19.9	19.9	19.9	20.7	19.2	19.2	19.9	19.9
87.5°	9.6	9.6	9.6	10.3	9.6	9.6	9.6	10.3	9.6	9.6	9.6
90°	9.1	9.5	10.0	10.5	10.7	10.8	11.0	11.2	11.4	11.6	11.4
92.5°	10.5	10.7	10.8	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.5
95°	17.2	17.7	18.2	18.7	18.9	18.8	18.7	18.6	18.5	18.4	18.5
97.5°	22.2	22.4	22.7	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.5
100°	25.2	26.0	26.7	27.5	27.9	28.0	28.2	28.3	28.5	28.7	28.5
102.5°	26.3	27.4	28.4	29.5	30.0	30.1	30.4	30.7	31.0	31.3	31.0
105°	27.1	28.2	29.2	30.3	30.8	31.0	31.4	31.8	32.2	32.6	32.2
107.5°	28.0	29.1	30.1	31.2	31.7	31.9	32.3	32.6	33.0	33.4	33.0
110°	65.5	55.9	46.4	36.9	32.1	32.3	32.7	33.0	33.4	33.8	33.4

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	176.7	135.6	94.6	53.5	33.0	33.1	33.4	33.7	34.0	34.3	34.0
115°	220.3	176.2	132.1	88.0	66.0	62.6	55.7	48.8	42.0	35.1	42.0
117.5°	273.9	260.3	246.6	233.0	226.2	213.7	188.8	163.9	138.9	114.0	138.9
120°	315.2	316.4	317.5	318.6	319.2	312.8	299.9	287.1	274.2	261.4	274.2
122.5°	339.9	340.5	341.0	341.6	341.9	341.9	342.0	342.1	342.2	342.3	342.2
125°	362.8	363.4	364.1	364.8	365.1	365.2	365.5	365.8	366.0	366.3	366.0
127.5°	384.0	385.0	385.9	386.8	387.3	387.4	387.5	387.6	387.7	387.8	387.7
130°	404.2	405.3	406.3	407.4	407.9	407.9	407.8	407.7	407.6	407.5	407.6
132.5°	424.2	425.0	425.9	426.8	427.2	427.2	427.1	427.0	426.9	426.8	426.9
135°	442.7	443.7	444.6	445.5	446.0	445.9	445.7	445.6	445.4	445.2	445.4
137.5°	460.3	461.2	462.2	463.1	463.6	463.5	463.2	462.9	462.6	462.3	462.6
140°	477.3	478.2	479.0	479.9	480.3	480.1	479.6	479.1	478.7	478.2	478.7
142.5°	493.1	493.8	494.6	495.3	495.7	495.5	495.0	494.5	494.1	493.6	494.1
145°	507.6	508.2	508.9	509.6	509.9	509.7	509.2	508.7	508.2	507.7	508.2
147.5°	520.7	521.1	521.6	522.1	522.3	522.1	521.7	521.4	521.0	520.6	521.0
150°	532.3	532.9	533.4	534.0	534.3	534.1	533.6	533.1	532.7	532.2	532.7
152.5°	543.0	543.6	544.1	544.7	545.0	544.7	544.0	543.3	542.7	542.0	542.7
155°	552.5	553.0	553.6	554.1	554.4	554.0	553.3	552.5	551.8	551.0	551.8
157.5°	560.7	561.3	562.0	562.7	563.0	562.6	561.9	561.1	560.4	559.6	560.4
160°	567.9	568.5	569.0	569.6	569.9	569.6	568.9	568.2	567.6	566.9	567.6
162.5°	574.4	575.0	575.7	576.4	576.7	576.3	575.4	574.6	573.7	572.9	573.7
165°	579.6	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	579.6
167.5°	584.3	584.9	585.6	586.3	586.6	586.2	585.3	584.4	583.6	582.7	583.6
170°	587.7	588.3	589.0	589.7	590.0	589.6	588.7	587.8	587.0	586.1	587.0
172.5°	590.3	590.9	591.6	592.3	592.6	592.2	591.3	590.4	589.6	588.7	589.6
175°	592.0	592.6	593.3	594.0	594.3	593.8	592.9	591.9	591.0	590.0	591.0
177.5°	592.4	593.0	593.7	594.4	594.7	594.3	593.4	592.6	591.7	590.9	591.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	1017.1	1011.9	1007.5	1008.2	1011.9	1008.9	1001.6	992.0	988.3	983.9	988.3
5°	1078.3	1073.8	1065.0	1065.7	1063.5	1060.6	1048.8	1034.0	1034.0	1022.2	1020.7
7.5°	1138.7	1132.1	1126.2	1124.7	1116.6	1110.7	1100.4	1079.7	1071.6	1057.6	1049.5
10°	1206.6	1201.4	1194.8	1186.7	1182.3	1171.9	1155.0	1124.7	1110.0	1090.8	1076.8
12.5°	1275.2	1274.4	1259.7	1243.5	1242.7	1226.5	1214.7	1174.1	1154.2	1128.4	1095.2
15°	1318.7	1315.0	1306.9	1298.8	1301.0	1283.3	1256.7	1208.8	1195.5	1164.6	1129.2
17.5°	1318.0	1318.0	1315.7	1314.3	1312.1	1306.9	1292.1	1260.4	1239.0	1200.0	1166.8
20°	1275.9	1285.5	1287.7	1287.0	1294.4	1298.0	1297.3	1277.4	1260.4	1225.8	1191.8
22.5°	1191.8	1214.0	1223.6	1229.5	1244.9	1253.1	1272.2	1264.9	1260.4	1234.6	1205.9
25°	1113.7	1121.0	1149.8	1151.3	1172.7	1192.6	1211.8	1224.3	1240.5	1230.9	1206.6
27.5°	1012.6	1029.6	1050.2	1065.7	1070.2	1110.7	1142.4	1166.0	1202.9	1205.9	1197.7
30°	898.3	906.4	940.3	961.0	984.6	1014.1	1059.8	1100.4	1133.6	1163.8	1174.1
32.5°	758.9	792.1	812.0	837.1	857.7	910.1	966.2	1018.5	1056.9	1107.8	1129.9
35°	631.3	657.1	691.1	701.4	739.0	783.3	856.3	923.4	981.6	1033.3	1078.3
37.5°	525.9	546.5	582.6	598.9	621.0	677.8	739.0	822.3	892.4	955.8	1011.9
40°	453.6	469.1	496.4	501.5	520.0	571.6	621.0	699.2	792.1	877.7	938.9
42.5°	404.2	411.5	430.0	436.6	448.4	483.1	527.3	601.1	687.4	775.9	862.2
45°	368.8	373.9	385.0	390.9	405.6	421.1	457.3	516.3	584.1	673.4	766.3
47.5°	337.0	343.7	348.1	351.8	359.9	376.9	400.5	444.0	508.9	590.8	680.7
50°	310.5	312.7	320.8	321.6	326.7	337.8	359.9	386.5	438.1	504.5	591.5
52.5°	283.9	286.2	291.3	296.5	298.7	307.5	322.3	344.4	382.8	435.1	512.6
55°	257.4	260.3	265.5	269.2	271.4	278.8	287.6	309.0	339.3	376.1	439.6
57.5°	230.8	237.5	239.0	241.2	244.9	253.0	261.1	273.6	297.2	331.1	377.6
60°	205.8	208.0	213.1	215.4	219.0	223.5	233.8	243.4	260.3	286.9	328.9
62.5°	180.0	185.1	187.3	189.5	192.5	197.7	204.3	214.6	229.4	250.8	283.9
65°	157.8	158.6	163.0	165.9	168.9	172.6	179.2	188.8	197.7	217.6	241.9
67.5°	136.4	137.9	139.4	142.3	146.0	149.7	155.6	160.8	171.8	185.1	204.3
70°	115.8	115.8	119.5	121.7	121.0	125.4	129.8	135.7	143.8	156.4	171.8
72.5°	97.4	96.6	99.6	100.3	101.8	104.7	107.7	113.6	118.0	127.6	139.4
75°	77.4	78.9	80.4	80.4	82.6	84.8	87.8	90.7	95.9	101.8	110.6
77.5°	61.2	61.2	62.7	63.4	65.6	64.9	67.9	70.8	74.5	79.7	86.3
80°	45.0	46.5	46.5	46.5	47.2	47.9	50.9	53.1	55.3	59.0	62.0
82.5°	31.7	31.7	33.2	33.2	33.2	34.7	34.7	35.4	36.9	39.1	41.3
85°	19.9	19.9	19.9	20.7	19.9	20.7	22.1	21.4	22.1	23.6	23.6
87.5°	9.6	9.6	9.6	9.6	9.6	10.3	9.6	10.3	11.1	11.1	11.1
90°	11.2	11.0	10.8	10.7	10.5	10.0	9.5	9.1	8.6	7.8	7.0
92.5°	11.4	11.3	11.2	11.1	11.0	10.8	10.7	10.5	10.3	10.0	9.7
95°	18.6	18.7	18.8	18.9	18.7	18.2	17.7	17.2	16.7	16.0	15.4
97.5°	23.4	23.3	23.2	23.1	23.0	22.7	22.4	22.2	21.9	20.4	18.8
100°	28.3	28.2	28.0	27.9	27.5	26.7	26.0	25.2	24.4	22.8	21.2
102.5°	30.7	30.4	30.1	30.0	29.5	28.4	27.4	26.3	25.3	42.6	60.0
105°	31.8	31.4	31.0	30.8	30.3	29.2	28.2	27.1	26.1	52.1	78.1
107.5°	32.6	32.3	31.9	31.7	31.2	30.1	29.1	28.0	27.0	59.1	91.2
110°	33.0	32.7	32.3	32.1	36.9	46.4	55.9	65.5	75.0	102.5	130.0

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	33.7	33.4	33.1	33.0	53.5	94.6	135.6	176.7	217.7	219.3	220.9
115°	48.8	55.7	62.6	66.0	88.0	132.1	176.2	220.3	264.4	262.0	259.6
117.5°	163.9	188.8	213.7	226.2	233.0	246.6	260.3	273.9	287.5	285.9	284.3
120°	287.1	299.9	312.8	319.2	318.6	317.5	316.4	315.2	314.1	312.4	310.7
122.5°	342.1	342.0	341.9	341.9	341.6	341.0	340.5	339.9	339.3	337.4	335.5
125°	365.8	365.5	365.2	365.1	364.8	364.1	363.4	362.8	362.1	360.3	358.5
127.5°	387.6	387.5	387.4	387.3	386.8	385.9	385.0	384.0	383.1	381.7	380.2
130°	407.7	407.8	407.9	407.9	407.4	406.3	405.3	404.2	403.2	402.2	401.1
132.5°	427.0	427.1	427.2	427.2	426.8	425.9	425.0	424.2	423.3	422.3	421.2
135°	445.6	445.7	445.9	446.0	445.5	444.6	443.7	442.7	441.8	440.9	440.1
137.5°	462.9	463.2	463.5	463.6	463.1	462.2	461.2	460.3	459.3	458.3	457.4
140°	479.1	479.6	480.1	480.3	479.9	479.0	478.2	477.3	476.5	475.4	474.4
142.5°	494.5	495.0	495.5	495.7	495.3	494.6	493.8	493.1	492.3	491.1	489.8
145°	508.7	509.2	509.7	509.9	509.6	508.9	508.2	507.6	506.9	505.3	503.7
147.5°	521.4	521.7	522.1	522.3	522.1	521.6	521.1	520.7	520.2	518.6	517.0
150°	533.1	533.6	534.1	534.3	534.0	533.4	532.9	532.3	531.7	530.2	528.7
152.5°	543.3	544.0	544.7	545.0	544.7	544.1	543.6	543.0	542.4	541.0	539.6
155°	552.5	553.3	554.0	554.4	554.1	553.6	553.0	552.5	551.9	550.7	549.6
157.5°	561.1	561.9	562.6	563.0	562.7	562.0	561.3	560.7	560.0	559.2	558.3
160°	568.2	568.9	569.6	569.9	569.6	569.0	568.5	567.9	567.3	566.7	566.1
162.5°	574.6	575.4	576.3	576.7	576.4	575.7	575.0	574.4	573.7	573.2	572.8
165°	580.2	580.9	581.6	581.9	581.6	580.9	580.2	579.6	578.9	578.6	578.3
167.5°	584.4	585.3	586.2	586.6	586.3	585.6	584.9	584.3	583.6	583.3	583.0
170°	587.8	588.7	589.6	590.0	589.7	589.0	588.3	587.7	587.0	586.8	586.6
172.5°	590.4	591.3	592.2	592.6	592.3	591.6	590.9	590.3	589.6	589.4	589.2
175°	591.9	592.9	593.8	594.3	594.0	593.3	592.6	592.0	591.3	591.1	590.9
177.5°	592.6	593.4	594.3	594.7	594.4	593.7	593.0	592.4	591.7	591.6	591.5
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	984.6	980.9	978.7	980.2	975.7	964.7	964.7	968.4	963.9	959.5	952.9
5°	1011.9	1004.5	1000.1	999.3	989.0	971.3	967.6	963.9	954.4	944.0	933.0
7.5°	1038.4	1025.2	1017.8	1012.6	997.9	975.0	965.4	957.3	941.8	926.3	912.3
10°	1060.6	1041.4	1032.5	1024.4	1005.2	976.5	961.0	946.2	926.3	906.4	888.7
12.5°	1078.3	1056.1	1045.1	1033.3	1009.7	972.1	952.9	929.3	909.4	882.8	865.1
15°	1107.8	1062.0	1051.7	1040.7	1016.3	964.7	941.1	914.5	887.2	851.8	832.7
17.5°	1131.4	1070.2	1069.4	1045.8	1014.1	961.7	925.6	890.9	861.4	826.0	795.8
20°	1145.4	1082.7	1070.9	1046.6	1006.7	941.8	904.2	865.9	834.1	791.4	761.1
22.5°	1157.2	1100.4	1069.4	1039.9	991.2	935.2	879.9	843.7	800.2	753.8	725.0
25°	1161.6	1104.1	1071.6	1037.7	980.2	916.0	853.3	814.2	765.6	723.5	684.4
27.5°	1162.3	1103.3	1063.5	1028.1	964.7	890.9	826.8	785.5	731.6	683.0	643.9
30°	1155.0	1095.2	1059.1	1020.7	949.9	868.1	794.3	748.6	691.1	642.4	601.8
32.5°	1132.8	1079.0	1049.5	1007.5	930.8	836.4	763.3	712.5	652.0	604.0	564.9
35°	1096.0	1059.1	1026.6	987.5	905.7	806.9	732.4	672.6	611.4	565.7	528.8
37.5°	1050.2	1030.3	1000.1	961.7	876.9	780.3	697.7	631.3	570.1	525.9	489.7
40°	988.3	993.4	963.9	929.3	843.0	744.2	652.7	589.3	531.8	490.5	455.1
42.5°	921.2	942.6	925.6	892.4	805.4	704.3	619.5	549.5	493.4	450.6	421.1
45°	848.9	885.8	875.4	851.1	766.3	662.3	572.3	504.5	455.1	413.8	387.9
47.5°	770.0	822.3	822.3	804.6	722.8	620.3	531.8	462.4	413.8	384.3	359.2
50°	689.6	748.6	758.2	746.4	674.1	572.3	482.3	419.7	377.6	348.9	330.4
52.5°	605.5	674.1	691.8	685.9	622.5	526.6	441.8	380.6	342.2	317.1	300.9
55°	525.1	604.8	623.9	626.2	567.2	476.4	396.8	343.0	306.1	289.1	275.1
57.5°	449.2	525.9	547.2	550.9	511.1	430.7	354.8	307.5	274.4	260.3	249.3
60°	384.3	448.4	476.4	484.6	449.9	377.6	315.7	269.9	244.9	231.6	221.3
62.5°	331.1	382.8	412.3	414.5	399.0	331.1	275.1	236.7	215.4	203.6	198.4
65°	279.5	326.0	343.7	352.5	340.0	286.9	237.5	205.8	188.8	178.5	173.3
67.5°	238.2	267.7	282.5	294.3	281.7	241.9	202.1	176.3	163.7	153.4	150.5
70°	195.4	219.8	230.8	242.6	231.6	201.3	172.6	149.0	137.9	129.8	126.1
72.5°	156.4	175.5	185.9	193.2	186.6	161.5	137.9	121.7	113.6	107.7	105.5
75°	123.9	137.2	143.1	148.2	145.3	126.1	111.4	98.1	90.7	85.6	84.1
77.5°	94.4	104.0	110.6	112.1	108.4	95.9	83.3	75.2	69.3	66.4	64.9
80°	67.1	73.0	76.7	78.9	75.2	70.1	61.2	55.3	50.2	46.5	45.7
82.5°	45.0	47.9	50.9	50.2	48.7	44.3	39.1	36.1	33.9	31.0	31.0
85°	25.8	26.6	28.0	28.8	28.0	25.1	22.1	20.7	19.2	17.0	17.0
87.5°	11.1	11.8	11.8	12.5	11.1	11.1	9.6	8.1	8.1	7.4	6.6
90°	6.3	5.5	5.1	4.6	3.5	2.5	1.4	0.4	1.4	2.5	3.5
92.5°	9.4	9.1	9.0	9.2	9.6	9.9	10.3	10.7	10.3	9.9	9.6
95°	14.7	14.0	13.7	15.3	18.4	21.6	24.7	27.9	24.7	21.6	18.4
97.5°	17.3	15.8	15.0	18.9	26.7	34.5	42.3	50.1	42.3	34.5	26.7
100°	19.5	17.9	17.1	23.6	36.7	49.7	62.8	75.8	62.8	49.7	36.7
102.5°	77.3	94.6	103.3	103.4	103.6	103.7	103.9	104.1	103.9	103.7	103.6
105°	104.1	130.1	143.1	141.7	138.8	136.0	133.1	130.3	133.1	136.0	138.8
107.5°	123.3	155.4	171.4	170.2	167.8	165.5	163.1	160.7	163.1	165.5	167.8
110°	157.5	185.0	198.8	197.8	195.8	193.8	191.8	189.8	191.8	193.8	195.8

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	222.5	224.1	224.9	224.0	222.3	220.6	218.9	217.2	218.9	220.6	222.3
115°	257.3	254.9	253.7	252.9	251.3	249.6	248.0	246.4	248.0	249.6	251.3
117.5°	282.6	281.0	280.2	279.2	277.3	275.4	273.5	271.6	273.5	275.4	277.3
120°	309.0	307.3	306.4	305.7	304.2	302.8	301.3	299.9	301.3	302.8	304.2
122.5°	333.6	331.7	330.8	330.0	328.5	327.0	325.4	323.9	325.4	327.0	328.5
125°	356.6	354.8	353.9	353.3	352.0	350.8	349.5	348.3	349.5	350.8	352.0
127.5°	378.8	377.3	376.6	375.9	374.6	373.3	371.9	370.6	371.9	373.3	374.6
130°	400.1	399.0	398.5	397.7	396.2	394.7	393.1	391.6	393.1	394.7	396.2
132.5°	420.2	419.1	418.6	418.0	416.7	415.5	414.2	413.0	414.2	415.5	416.7
135°	439.2	438.3	437.9	437.1	435.6	434.1	432.5	431.0	432.5	434.1	435.6
137.5°	456.4	455.5	455.0	454.4	453.3	452.2	451.0	449.9	451.0	452.2	453.3
140°	473.3	472.2	471.7	471.3	470.6	469.8	469.1	468.3	469.1	469.8	470.6
142.5°	488.6	487.3	486.7	486.4	485.7	485.0	484.4	483.7	484.4	485.0	485.7
145°	502.0	500.4	499.6	499.6	499.7	499.8	499.9	500.0	499.9	499.8	499.7
147.5°	515.3	513.7	512.9	513.0	513.3	513.6	513.9	514.2	513.9	513.6	513.3
150°	527.2	525.7	524.9	525.2	525.9	526.6	527.2	527.9	527.2	526.6	525.9
152.5°	538.1	536.7	536.0	536.4	537.1	537.9	538.6	539.4	538.6	537.9	537.1
155°	548.4	547.3	546.7	547.1	548.0	548.9	549.7	550.6	549.7	548.9	548.0
157.5°	557.5	556.6	556.2	556.6	557.3	558.1	558.8	559.6	558.8	558.1	557.3
160°	565.6	565.0	564.7	565.0	565.6	566.1	566.7	567.3	566.7	566.1	565.6
162.5°	572.3	571.8	571.6	571.9	572.4	573.0	573.5	574.1	573.5	573.0	572.4
165°	578.0	577.7	577.6	577.9	578.4	579.0	579.5	580.1	579.5	579.0	578.4
167.5°	582.7	582.4	582.3	582.6	583.2	583.7	584.3	584.9	584.3	583.7	583.2
170°	586.4	586.2	586.1	586.4	587.0	587.5	588.1	588.7	588.1	587.5	587.0
172.5°	589.0	588.8	588.7	589.0	589.6	590.1	590.7	591.3	590.7	590.1	589.6
175°	590.7	590.5	590.4	590.7	591.4	592.1	592.7	593.4	592.7	592.1	591.4
177.5°	591.4	591.3	591.3	591.6	592.3	593.0	593.6	594.3	593.6	593.0	592.3
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	949.2	952.9	952.1	944.8	936.7	930.0	917.5	919.0	914.5	915.3	919.7
5°	925.6	925.6	922.6	912.3	899.0	891.7	877.7	874.0	865.1	864.4	863.6
7.5°	900.5	896.8	893.1	878.4	862.2	850.4	831.2	826.8	817.9	812.0	809.1
10°	871.0	865.9	858.5	841.5	821.6	806.9	786.9	781.0	764.1	756.7	752.3
12.5°	838.6	835.6	823.8	809.8	777.4	761.1	732.4	738.3	721.3	706.6	704.3
15°	806.1	795.1	788.4	765.6	726.5	719.1	696.2	684.4	668.9	657.1	657.1
17.5°	774.4	757.4	742.7	718.4	689.6	668.9	652.0	646.1	626.9	615.1	612.9
20°	732.4	713.2	709.5	674.8	654.9	632.1	615.8	601.1	587.1	581.9	578.2
22.5°	692.5	670.4	664.5	635.0	615.1	592.2	576.0	565.7	555.4	551.7	545.0
25°	649.8	636.5	627.6	595.9	573.8	552.4	541.3	534.0	524.4	523.6	519.2
27.5°	608.5	595.9	587.1	556.8	540.6	520.7	511.8	503.7	498.6	496.4	494.1
30°	573.1	559.0	548.7	526.6	506.7	490.5	483.1	477.9	475.0	471.3	470.5
32.5°	534.0	525.9	511.8	494.9	479.4	463.9	459.5	455.8	451.4	449.9	449.2
35°	500.8	489.7	480.9	461.7	455.1	441.8	436.6	433.7	427.8	426.3	424.8
37.5°	468.3	458.0	448.4	436.6	424.1	416.7	413.8	409.3	406.4	407.1	405.6
40°	435.9	427.8	420.4	407.9	400.5	396.8	390.9	386.5	385.0	385.7	385.0
42.5°	404.2	396.8	392.4	382.8	375.4	371.7	368.0	363.6	365.8	365.8	368.0
45°	375.4	368.8	365.8	358.4	354.0	348.1	344.4	343.7	346.6	345.9	345.9
47.5°	345.9	343.7	340.0	333.4	327.5	323.8	323.0	323.0	326.0	327.5	326.7
50°	323.0	318.6	314.2	309.0	304.6	303.1	300.9	302.4	305.3	305.3	306.8
52.5°	294.3	291.3	289.8	285.4	282.5	282.5	282.5	283.2	285.4	287.6	286.9
55°	269.2	267.0	265.5	263.3	259.6	260.3	259.6	261.1	263.3	265.5	267.0
57.5°	242.6	241.9	240.4	236.7	236.7	236.0	238.2	239.0	242.6	244.1	246.3
60°	219.0	216.8	216.8	213.9	213.9	213.9	216.1	218.3	221.3	222.0	223.5
62.5°	194.0	194.0	193.2	191.0	191.0	193.2	194.0	196.9	198.4	198.4	200.6
65°	170.4	169.6	168.9	169.6	170.4	170.4	172.6	174.1	175.5	176.3	177.0
67.5°	146.8	146.0	147.5	146.8	148.2	151.2	150.5	152.7	154.9	154.9	155.6
70°	124.6	126.1	125.4	126.9	126.1	127.6	129.8	130.5	130.5	131.3	133.5
72.5°	104.0	104.0	104.0	103.3	104.0	105.5	106.9	107.7	109.2	109.9	112.1
75°	84.1	84.1	82.6	84.1	84.1	85.6	87.0	87.0	87.0	88.5	90.7
77.5°	63.4	64.2	63.4	64.9	64.9	65.6	67.1	66.4	67.9	68.6	69.3
80°	46.5	45.7	45.7	45.7	46.5	46.5	47.9	48.7	48.7	50.9	49.4
82.5°	29.5	30.2	29.5	30.2	30.2	31.0	30.2	31.0	31.7	33.2	32.5
85°	17.0	16.2	16.2	17.0	16.2	16.2	17.0	16.2	17.0	16.2	17.0
87.5°	6.6	5.9	5.9	5.9	5.9	5.2	5.2	4.4	4.4	4.4	3.7
90°	4.6	5.1	5.5	6.3	7.0	7.8	8.6	9.1	9.5	10.0	10.5
92.5°	9.2	9.0	9.1	9.4	9.7	10.0	10.3	10.5	10.7	10.8	11.0
95°	15.3	13.7	14.0	14.7	15.4	16.0	16.7	17.2	17.7	18.2	18.7
97.5°	18.9	15.0	15.8	17.3	18.8	20.4	21.9	22.2	22.4	22.7	23.0
100°	23.6	17.1	17.9	19.5	21.2	22.8	24.4	25.2	26.0	26.7	27.5
102.5°	103.4	103.3	94.6	77.3	60.0	42.6	25.3	26.3	27.4	28.4	29.5
105°	141.7	143.1	130.1	104.1	78.1	52.1	26.1	27.1	28.2	29.2	30.3
107.5°	170.2	171.4	155.4	123.3	91.2	59.1	27.0	28.0	29.1	30.1	31.2
110°	197.8	198.8	185.0	157.5	130.0	102.5	75.0	65.5	55.9	46.4	36.9

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	224.0	224.9	224.1	222.5	220.9	219.3	217.7	176.7	135.6	94.6	53.5
115°	252.9	253.7	254.9	257.3	259.6	262.0	264.4	220.3	176.2	132.1	88.0
117.5°	279.2	280.2	281.0	282.6	284.3	285.9	287.5	273.9	260.3	246.6	233.0
120°	305.7	306.4	307.3	309.0	310.7	312.4	314.1	315.2	316.4	317.5	318.6
122.5°	330.0	330.8	331.7	333.6	335.5	337.4	339.3	339.9	340.5	341.0	341.6
125°	353.3	353.9	354.8	356.6	358.5	360.3	362.1	362.8	363.4	364.1	364.8
127.5°	375.9	376.6	377.3	378.8	380.2	381.7	383.1	384.0	385.0	385.9	386.8
130°	397.7	398.5	399.0	400.1	401.1	402.2	403.2	404.2	405.3	406.3	407.4
132.5°	418.0	418.6	419.1	420.2	421.2	422.3	423.3	424.2	425.0	425.9	426.8
135°	437.1	437.9	438.3	439.2	440.1	440.9	441.8	442.7	443.7	444.6	445.5
137.5°	454.4	455.0	455.5	456.4	457.4	458.3	459.3	460.3	461.2	462.2	463.1
140°	471.3	471.7	472.2	473.3	474.4	475.4	476.5	477.3	478.2	479.0	479.9
142.5°	486.4	486.7	487.3	488.6	489.8	491.1	492.3	493.1	493.8	494.6	495.3
145°	499.6	499.6	500.4	502.0	503.7	505.3	506.9	507.6	508.2	508.9	509.6
147.5°	513.0	512.9	513.7	515.3	517.0	518.6	520.2	520.7	521.1	521.6	522.1
150°	525.2	524.9	525.7	527.2	528.7	530.2	531.7	532.3	532.9	533.4	534.0
152.5°	536.4	536.0	536.7	538.1	539.6	541.0	542.4	543.0	543.6	544.1	544.7
155°	547.1	546.7	547.3	548.4	549.6	550.7	551.9	552.5	553.0	553.6	554.1
157.5°	556.6	556.2	556.6	557.5	558.3	559.2	560.0	560.7	561.3	562.0	562.7
160°	565.0	564.7	565.0	565.6	566.1	566.7	567.3	567.9	568.5	569.0	569.6
162.5°	571.9	571.6	571.8	572.3	572.8	573.2	573.7	574.4	575.0	575.7	576.4
165°	577.9	577.6	577.7	578.0	578.3	578.6	578.9	579.6	580.2	580.9	581.6
167.5°	582.6	582.3	582.4	582.7	583.0	583.3	583.6	584.3	584.9	585.6	586.3
170°	586.4	586.1	586.2	586.4	586.6	586.8	587.0	587.7	588.3	589.0	589.7
172.5°	589.0	588.7	588.8	589.0	589.2	589.4	589.6	590.3	590.9	591.6	592.3
175°	590.7	590.4	590.5	590.7	590.9	591.1	591.3	592.0	592.6	593.3	594.0
177.5°	591.6	591.3	591.3	591.4	591.5	591.6	591.7	592.4	593.0	593.7	594.4
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	914.5	916.7	911.6	910.1	911.6	906.4	907.9	909.4	909.4	911.6	913.1
5°	861.4	858.5	853.3	851.8	850.4	852.6	851.1	853.3	854.1	859.2	860.0
7.5°	809.1	804.6	800.2	795.8	794.3	790.6	794.3	794.3	799.5	798.0	801.7
10°	747.1	746.4	740.5	738.3	735.3	729.4	737.5	735.3	739.0	745.6	747.1
12.5°	701.4	693.3	697.0	686.6	690.3	684.4	685.2	685.2	691.1	691.8	690.3
15°	657.9	651.2	641.6	637.2	635.0	632.1	641.6	642.4	638.0	648.3	644.6
17.5°	613.6	613.6	604.8	602.6	596.7	599.6	598.1	598.9	597.4	604.8	608.5
20°	575.3	571.6	568.6	569.4	562.0	560.5	559.0	560.5	565.7	570.8	572.3
22.5°	544.3	542.1	534.7	536.2	530.3	532.5	531.0	534.7	535.4	535.4	540.6
25°	514.8	511.8	512.6	509.6	507.4	507.4	505.2	507.4	510.4	511.8	512.6
27.5°	492.7	490.5	486.8	484.6	486.0	482.3	485.3	487.5	487.5	486.0	487.5
30°	466.1	467.6	467.6	460.2	463.2	461.7	463.9	465.4	465.4	466.1	464.6
32.5°	448.4	444.0	443.3	442.5	442.5	439.6	439.6	441.8	442.5	443.3	445.5
35°	424.8	424.8	421.1	423.3	420.4	421.1	420.4	421.1	422.6	420.4	422.6
37.5°	403.4	404.2	402.7	404.2	404.9	403.4	402.0	404.9	403.4	403.4	402.0
40°	385.0	384.3	385.0	385.0	385.0	385.7	384.3	384.3	384.3	382.8	381.3
42.5°	369.5	365.1	366.6	367.3	365.1	365.1	365.8	365.1	367.3	362.9	362.9
45°	347.4	345.9	346.6	346.6	348.1	345.9	347.4	348.1	345.9	345.2	343.7
47.5°	327.5	328.9	327.5	328.9	328.9	330.4	327.5	328.2	328.9	326.0	323.8
50°	307.5	307.5	309.8	309.0	309.8	308.3	308.3	307.5	308.3	306.8	304.6
52.5°	289.1	286.9	290.6	289.8	289.1	288.4	287.6	288.4	286.9	285.4	285.4
55°	266.2	266.2	268.5	269.2	269.2	267.7	266.2	267.0	266.2	265.5	264.8
57.5°	247.8	244.9	246.3	247.1	247.1	244.9	246.3	244.9	244.9	245.6	243.4
60°	224.2	224.2	222.7	224.9	224.9	223.5	223.5	224.2	222.7	222.0	221.3
62.5°	199.1	199.9	202.1	202.8	203.6	202.1	200.6	201.3	201.3	199.1	199.9
65°	177.7	179.2	182.2	181.4	180.0	180.7	179.2	180.0	177.7	178.5	176.3
67.5°	157.1	156.4	157.1	157.1	158.6	157.8	156.4	156.4	155.6	157.8	155.6
70°	135.0	135.0	135.0	135.0	135.7	136.4	135.0	133.5	134.2	132.8	132.0
72.5°	112.1	112.8	112.1	113.6	111.4	112.8	112.8	112.1	111.4	111.4	111.4
75°	90.7	92.2	90.0	90.7	90.0	91.5	90.7	90.7	89.2	88.5	89.2
77.5°	69.3	70.1	68.6	69.3	68.6	69.3	69.3	68.6	68.6	68.6	68.6
80°	49.4	50.2	49.4	48.7	47.9	49.4	47.9	48.7	49.4	48.7	50.2
82.5°	31.7	31.7	31.0	31.7	30.2	30.2	31.0	31.0	30.2	31.7	30.2
85°	15.5	15.5	17.0	15.5	14.8	14.8	14.8	15.5	14.8	16.2	15.5
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	3.7	3.0	3.7	4.4	3.0
90°	10.7	10.8	11.0	11.2	11.4	11.6	11.4	11.2	11.0	10.8	10.7
92.5°	11.1	11.2	11.3	11.4	11.5	11.6	11.5	11.4	11.3	11.2	11.1
95°	18.9	18.8	18.7	18.6	18.5	18.4	18.5	18.6	18.7	18.8	18.9
97.5°	23.1	23.2	23.3	23.4	23.5	23.6	23.5	23.4	23.3	23.2	23.1
100°	27.9	28.0	28.2	28.3	28.5	28.7	28.5	28.3	28.2	28.0	27.9
102.5°	30.0	30.1	30.4	30.7	31.0	31.3	31.0	30.7	30.4	30.1	30.0
105°	30.8	31.0	31.4	31.8	32.2	32.6	32.2	31.8	31.4	31.0	30.8
107.5°	31.7	31.9	32.3	32.6	33.0	33.4	33.0	32.6	32.3	31.9	31.7
110°	32.1	32.3	32.7	33.0	33.4	33.8	33.4	33.0	32.7	32.3	32.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.0	33.1	33.4	33.7	34.0	34.3	34.0	33.7	33.4	33.1	33.0
115°	66.0	62.6	55.7	48.8	42.0	35.1	42.0	48.8	55.7	62.6	66.0
117.5°	226.2	213.7	188.8	163.9	138.9	114.0	138.9	163.9	188.8	213.7	226.2
120°	319.2	312.8	299.9	287.1	274.2	261.4	274.2	287.1	299.9	312.8	319.2
122.5°	341.9	341.9	342.0	342.1	342.2	342.3	342.2	342.1	342.0	341.9	341.9
125°	365.1	365.2	365.5	365.8	366.0	366.3	366.0	365.8	365.5	365.2	365.1
127.5°	387.3	387.4	387.5	387.6	387.7	387.8	387.7	387.6	387.5	387.4	387.3
130°	407.9	407.9	407.8	407.7	407.6	407.5	407.6	407.7	407.8	407.9	407.9
132.5°	427.2	427.2	427.1	427.0	426.9	426.8	426.9	427.0	427.1	427.2	427.2
135°	446.0	445.9	445.7	445.6	445.4	445.2	445.4	445.6	445.7	445.9	446.0
137.5°	463.6	463.5	463.2	462.9	462.6	462.3	462.6	462.9	463.2	463.5	463.6
140°	480.3	480.1	479.6	479.1	478.7	478.2	478.7	479.1	479.6	480.1	480.3
142.5°	495.7	495.5	495.0	494.5	494.1	493.6	494.1	494.5	495.0	495.5	495.7
145°	509.9	509.7	509.2	508.7	508.2	507.7	508.2	508.7	509.2	509.7	509.9
147.5°	522.3	522.1	521.7	521.4	521.0	520.6	521.0	521.4	521.7	522.1	522.3
150°	534.3	534.1	533.6	533.1	532.7	532.2	532.7	533.1	533.6	534.1	534.3
152.5°	545.0	544.7	544.0	543.3	542.7	542.0	542.7	543.3	544.0	544.7	545.0
155°	554.4	554.0	553.3	552.5	551.8	551.0	551.8	552.5	553.3	554.0	554.4
157.5°	563.0	562.6	561.9	561.1	560.4	559.6	560.4	561.1	561.9	562.6	563.0
160°	569.9	569.6	568.9	568.2	567.6	566.9	567.6	568.2	568.9	569.6	569.9
162.5°	576.7	576.3	575.4	574.6	573.7	572.9	573.7	574.6	575.4	576.3	576.7
165°	581.9	581.6	580.9	580.2	579.6	578.9	579.6	580.2	580.9	581.6	581.9
167.5°	586.6	586.2	585.3	584.4	583.6	582.7	583.6	584.4	585.3	586.2	586.6
170°	590.0	589.6	588.7	587.8	587.0	586.1	587.0	587.8	588.7	589.6	590.0
172.5°	592.6	592.2	591.3	590.4	589.6	588.7	589.6	590.4	591.3	592.2	592.6
175°	594.3	593.8	592.9	591.9	591.0	590.0	591.0	591.9	592.9	593.8	594.3
177.5°	594.7	594.3	593.4	592.6	591.7	590.9	591.7	592.6	593.4	594.3	594.7
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	910.8	916.7	914.5	906.4	916.0	916.0	922.6	922.6	930.8	933.7	938.1
5°	859.2	863.6	867.3	863.6	870.3	880.6	886.5	891.7	902.7	907.2	913.8
7.5°	803.9	812.0	815.7	815.7	826.8	838.6	850.4	857.7	873.2	879.1	885.8
10°	750.1	759.7	767.0	766.3	784.7	792.1	806.9	823.8	839.3	848.2	857.7
12.5°	693.3	698.4	708.8	723.5	727.9	741.2	758.2	779.6	807.6	815.7	829.7
15°	646.1	660.1	668.2	674.8	685.2	697.7	716.1	736.8	764.8	782.5	797.3
17.5°	606.2	624.7	629.8	628.4	641.6	660.8	682.2	697.7	722.8	744.2	758.2
20°	573.8	581.2	590.0	593.7	604.0	624.7	645.3	663.0	683.7	700.7	716.9
22.5°	541.3	547.2	554.6	561.3	569.4	581.2	601.1	623.2	643.1	659.3	677.8
25°	514.8	518.5	525.1	530.3	539.1	547.2	561.3	585.6	609.2	618.8	635.0
27.5°	489.0	491.9	496.4	502.3	506.7	514.8	527.3	547.2	571.6	581.2	603.3
30°	466.1	468.3	472.8	475.7	477.9	487.5	497.1	512.6	531.0	544.3	560.5
32.5°	444.7	446.9	451.4	452.1	455.1	460.2	469.1	483.1	499.3	510.4	524.4
35°	421.1	422.6	427.0	428.5	430.7	435.1	441.8	452.1	466.9	475.0	487.5
37.5°	402.7	402.0	404.9	407.1	410.1	412.3	414.5	424.8	435.9	443.3	452.8
40°	382.8	381.3	382.0	385.0	386.5	389.4	389.4	399.7	407.1	413.0	420.4
42.5°	362.9	362.1	360.7	362.1	363.6	364.3	365.1	372.5	379.8	385.0	393.1
45°	343.0	342.2	340.7	341.5	341.5	343.0	345.2	348.1	353.3	357.7	362.1
47.5°	324.5	323.0	320.8	320.1	321.6	321.6	321.6	324.5	329.7	331.1	335.6
50°	305.3	303.1	300.2	298.7	298.7	298.0	299.4	300.2	304.6	306.1	309.8
52.5°	284.7	283.2	280.3	277.3	278.0	276.6	277.3	278.0	279.5	281.7	283.9
55°	264.0	261.1	258.9	258.1	255.9	255.9	253.7	256.7	255.9	256.7	259.6
57.5°	244.1	241.2	237.5	236.0	233.8	233.1	231.6	230.8	231.6	233.8	236.0
60°	220.5	219.0	216.8	214.6	213.1	210.9	209.5	209.5	208.7	208.7	209.5
62.5°	197.7	196.9	194.0	193.2	191.8	190.3	188.1	186.6	186.6	188.1	188.8
65°	175.5	174.8	172.6	171.8	168.2	166.7	165.9	165.2	163.7	163.7	163.7
67.5°	154.9	152.7	152.7	149.0	146.0	144.6	143.1	142.3	142.3	142.3	143.1
70°	132.0	132.0	129.8	127.6	124.6	125.4	123.2	121.0	121.0	119.5	120.2
72.5°	109.9	109.2	106.9	106.2	104.0	101.8	100.3	101.8	99.6	98.8	99.6
75°	88.5	87.8	86.3	84.8	85.6	83.3	81.1	80.4	80.4	78.9	78.9
77.5°	67.9	69.3	66.4	65.6	64.2	62.7	62.0	61.2	61.2	61.2	62.7
80°	47.2	47.9	47.9	46.5	47.2	45.0	45.0	45.0	42.8	43.5	44.3
82.5°	30.2	30.2	29.5	30.2	29.5	29.5	28.8	28.8	28.0	28.0	28.8
85°	17.0	16.2	15.5	17.0	16.2	16.2	15.5	15.5	15.5	15.5	15.5
87.5°	3.7	4.4	4.4	4.4	4.4	5.2	5.2	5.2	5.9	5.9	5.9
90°	10.5	10.0	9.5	9.1	8.6	7.8	7.0	6.3	5.5	5.1	4.6
92.5°	11.0	10.8	10.7	10.5	10.3	10.0	9.7	9.4	9.1	9.0	9.2
95°	18.7	18.2	17.7	17.2	16.7	16.0	15.4	14.7	14.0	13.7	15.3
97.5°	23.0	22.7	22.4	22.2	21.9	20.4	18.8	17.3	15.8	15.0	18.9
100°	27.5	26.7	26.0	25.2	24.4	22.8	21.2	19.5	17.9	17.1	23.6
102.5°	29.5	28.4	27.4	26.3	25.3	42.6	60.0	77.3	94.6	103.3	103.4
105°	30.3	29.2	28.2	27.1	26.1	52.1	78.1	104.1	130.1	143.1	141.7
107.5°	31.2	30.1	29.1	28.0	27.0	59.1	91.2	123.3	155.4	171.4	170.2
110°	36.9	46.4	55.9	65.5	75.0	102.5	130.0	157.5	185.0	198.8	197.8

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	53.5	94.6	135.6	176.7	217.7	219.3	220.9	222.5	224.1	224.9	224.0
115°	88.0	132.1	176.2	220.3	264.4	262.0	259.6	257.3	254.9	253.7	252.9
117.5°	233.0	246.6	260.3	273.9	287.5	285.9	284.3	282.6	281.0	280.2	279.2
120°	318.6	317.5	316.4	315.2	314.1	312.4	310.7	309.0	307.3	306.4	305.7
122.5°	341.6	341.0	340.5	339.9	339.3	337.4	335.5	333.6	331.7	330.8	330.0
125°	364.8	364.1	363.4	362.8	362.1	360.3	358.5	356.6	354.8	353.9	353.3
127.5°	386.8	385.9	385.0	384.0	383.1	381.7	380.2	378.8	377.3	376.6	375.9
130°	407.4	406.3	405.3	404.2	403.2	402.2	401.1	400.1	399.0	398.5	397.7
132.5°	426.8	425.9	425.0	424.2	423.3	422.3	421.2	420.2	419.1	418.6	418.0
135°	445.5	444.6	443.7	442.7	441.8	440.9	440.1	439.2	438.3	437.9	437.1
137.5°	463.1	462.2	461.2	460.3	459.3	458.3	457.4	456.4	455.5	455.0	454.4
140°	479.9	479.0	478.2	477.3	476.5	475.4	474.4	473.3	472.2	471.7	471.3
142.5°	495.3	494.6	493.8	493.1	492.3	491.1	489.8	488.6	487.3	486.7	486.4
145°	509.6	508.9	508.2	507.6	506.9	505.3	503.7	502.0	500.4	499.6	499.6
147.5°	522.1	521.6	521.1	520.7	520.2	518.6	517.0	515.3	513.7	512.9	513.0
150°	534.0	533.4	532.9	532.3	531.7	530.2	528.7	527.2	525.7	524.9	525.2
152.5°	544.7	544.1	543.6	543.0	542.4	541.0	539.6	538.1	536.7	536.0	536.4
155°	554.1	553.6	553.0	552.5	551.9	550.7	549.6	548.4	547.3	546.7	547.1
157.5°	562.7	562.0	561.3	560.7	560.0	559.2	558.3	557.5	556.6	556.2	556.6
160°	569.6	569.0	568.5	567.9	567.3	566.7	566.1	565.6	565.0	564.7	565.0
162.5°	576.4	575.7	575.0	574.4	573.7	573.2	572.8	572.3	571.8	571.6	571.9
165°	581.6	580.9	580.2	579.6	578.9	578.6	578.3	578.0	577.7	577.6	577.9
167.5°	586.3	585.6	584.9	584.3	583.6	583.3	583.0	582.7	582.4	582.3	582.6
170°	589.7	589.0	588.3	587.7	587.0	586.8	586.6	586.4	586.2	586.1	586.4
172.5°	592.3	591.6	590.9	590.3	589.6	589.4	589.2	589.0	588.8	588.7	589.0
175°	594.0	593.3	592.6	592.0	591.3	591.1	590.9	590.7	590.5	590.4	590.7
177.5°	594.4	593.7	593.0	592.4	591.7	591.6	591.5	591.4	591.3	591.3	591.6
180°	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1	592.1

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	959.5	959.5	959.5	959.5
2.5°	941.8	941.8	952.9	964.7
5°	921.2	926.3	944.0	960.3
7.5°	901.3	910.1	932.2	952.9
10°	876.9	888.7	916.0	940.3
12.5°	853.3	864.4	896.1	923.4
15°	820.1	834.1	868.1	902.0
17.5°	786.9	801.0	842.3	882.1
20°	747.9	766.3	812.8	865.9
22.5°	711.7	734.6	786.2	829.0
25°	671.9	707.3	755.2	810.5
27.5°	636.5	671.9	720.6	776.6
30°	596.7	632.8	683.0	734.6
32.5°	558.3	591.5	640.2	703.6
35°	518.5	550.2	597.4	661.6
37.5°	482.3	513.3	564.9	623.9
40°	446.9	479.4	523.6	582.6
42.5°	413.8	442.5	482.3	541.3
45°	383.5	404.2	441.0	496.4
47.5°	351.8	370.2	404.2	459.5
50°	322.3	337.8	367.3	418.9
52.5°	293.5	306.8	334.1	375.4
55°	267.7	280.3	300.2	340.7
57.5°	241.2	250.8	269.9	302.4
60°	215.4	224.2	239.7	266.2
62.5°	189.5	196.9	211.7	233.1
65°	166.7	172.6	183.6	202.1
67.5°	144.6	148.2	157.1	171.8
70°	123.2	126.1	133.5	145.3
72.5°	100.3	103.3	111.4	119.5
75°	81.1	81.9	87.8	94.4
77.5°	63.4	62.7	67.1	72.3
80°	43.5	45.7	49.4	51.6
82.5°	29.5	30.2	31.7	33.2
85°	16.2	17.0	17.0	19.2
87.5°	6.6	7.4	7.4	8.1
90°	3.5	2.5	1.4	0.4
92.5°	9.6	9.9	10.3	10.7
95°	18.4	21.6	24.7	27.9
97.5°	26.7	34.5	42.3	50.1
100°	36.7	49.7	62.8	75.8
102.5°	103.6	103.7	103.9	104.1
105°	138.8	136.0	133.1	130.3
107.5°	167.8	165.5	163.1	160.7
110°	195.8	193.8	191.8	189.8

TEST NUMBER: P1029513

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	222.3	220.6	218.9	217.2
115°	251.3	249.6	248.0	246.4
117.5°	277.3	275.4	273.5	271.6
120°	304.2	302.8	301.3	299.9
122.5°	328.5	327.0	325.4	323.9
125°	352.0	350.8	349.5	348.3
127.5°	374.6	373.3	371.9	370.6
130°	396.2	394.7	393.1	391.6
132.5°	416.7	415.5	414.2	413.0
135°	435.6	434.1	432.5	431.0
137.5°	453.3	452.2	451.0	449.9
140°	470.6	469.8	469.1	468.3
142.5°	485.7	485.0	484.4	483.7
145°	499.7	499.8	499.9	500.0
147.5°	513.3	513.6	513.9	514.2
150°	525.9	526.6	527.2	527.9
152.5°	537.1	537.9	538.6	539.4
155°	548.0	548.9	549.7	550.6
157.5°	557.3	558.1	558.8	559.6
160°	565.6	566.1	566.7	567.3
162.5°	572.4	573.0	573.5	574.1
165°	578.4	579.0	579.5	580.1
167.5°	583.2	583.7	584.3	584.9
170°	587.0	587.5	588.1	588.7
172.5°	589.6	590.1	590.7	591.3
175°	591.4	592.1	592.7	593.4
177.5°	592.3	593.0	593.6	594.3
180°	592.1	592.1	592.1	592.1

(END OF REPORT)