

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: P1029508

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029508
REPORT IS A COMBINATION OF REPORTS P986107 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-A1_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

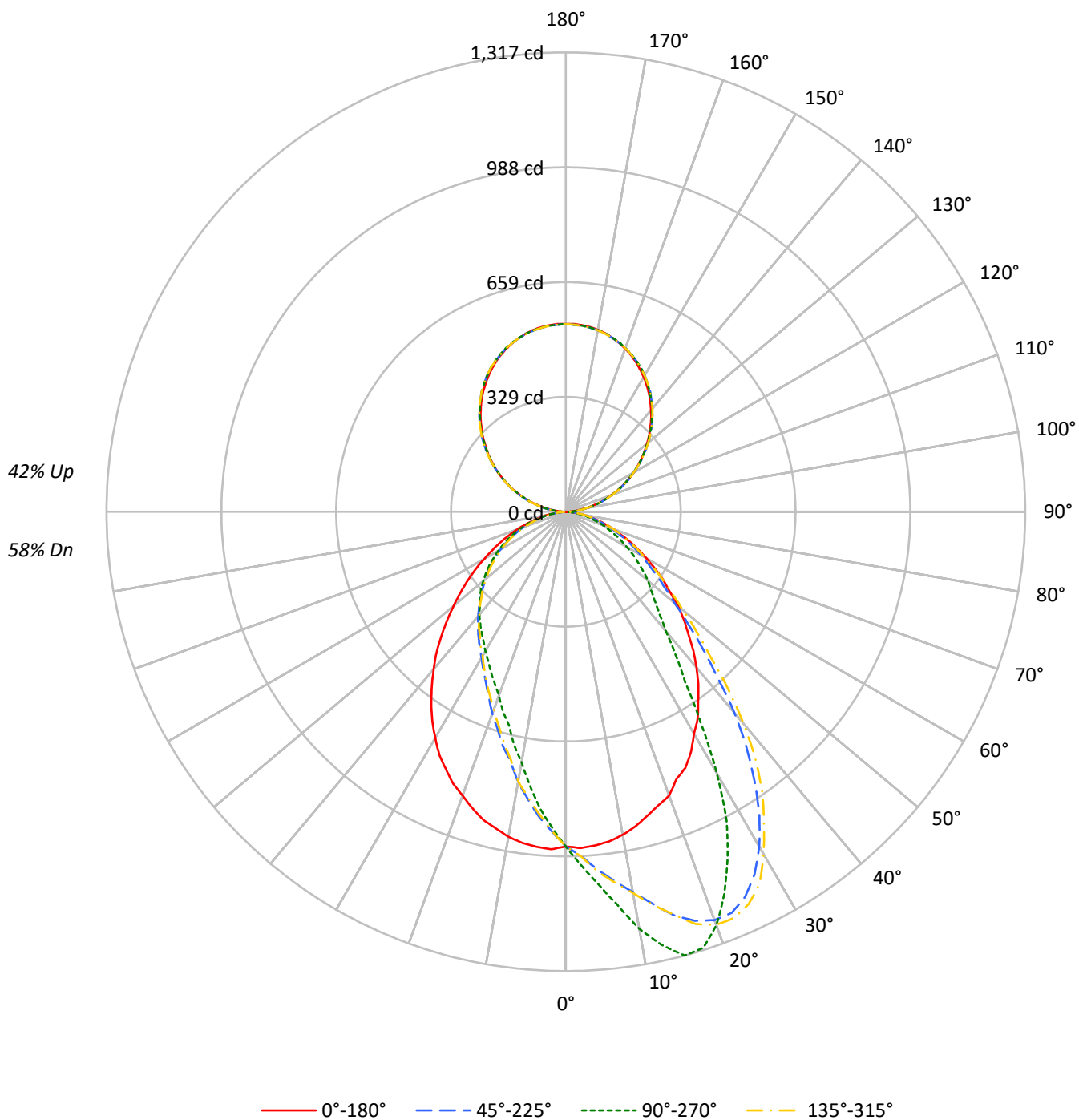
Lumens per Lamp: N/A
Luminaire Lumens: 3623.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	96	92	89	93	90	87	84	78	76	74	67	66	64	57	56	55
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47
3	84	75	68	62	78	70	64	59	61	57	53	53	50	47	46	43	41
4	77	67	59	53	72	63	56	50	55	50	45	48	44	41	41	38	36
5	71	60	52	46	66	56	49	44	50	44	40	43	39	36	38	34	32
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28
7	61	49	41	36	57	46	39	34	41	35	31	36	31	28	32	28	25
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	25	23
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	23	21
10	50	38	30	26	46	36	29	25	32	27	23	28	24	21	25	22	19

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.5
10°-20°	266.0	7.3
20°-30°	386.1	10.7
30°-40°	407.0	11.2
40°-50°	360.1	9.9
50°-60°	287.6	7.9
60°-70°	195.3	5.4
70°-80°	99.9	2.8
80°-90°	25.2	0.7
90°-100°	33.3	0.9
100°-110°	105.8	2.9
110°-120°	181.1	5.0
120°-130°	238.1	6.6
130°-140°	267.3	7.4
140°-150°	262.1	7.2
150°-160°	219.9	6.1
160°-170°	145.8	4.0
170°-180°	51.0	1.4
0°-30°	743.5	20.5
0°-40°	1150.4	31.8
0°-60°	1798.1	49.6
0°-90°	2118.5	58.5
90°-120°	320.2	8.8
90°-150°	1087.8	30.0
90°-180°	1504.0	41.5
0°-180°	3623.0	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	15	0	15	0	3
95°	24	28	24	28	24	26
105°	98	101	98	101	98	103
115°	182	182	182	182	182	180
125°	264	265	264	265	264	236
135°	342	346	342	346	342	264
145°	415	420	415	420	415	259
155°	474	478	474	478	474	218
165°	516	517	516	517	516	146
175°	537	535	537	535	537	51
180°	538	538	538	538	538	

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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°	0.5	1.7	2.9	4.1	5.3	5.9	7.0	9.2	11.5	13.7	15.9
92.5°	10.0	10.8	11.6	12.4	13.2	13.6	13.7	13.8	13.9	14.0	14.1
95°	23.6	24.6	25.6	26.7	27.7	28.2	28.3	28.5	28.7	28.9	29.1
97.5°	39.5	40.4	41.3	42.2	43.1	43.6	43.8	44.2	44.6	45.0	45.4
100°	57.7	58.5	59.3	60.1	60.9	61.3	61.5	61.8	62.1	62.4	62.7
102.5°	76.7	77.3	77.9	78.6	79.2	79.5	79.7	80.1	80.5	80.9	81.3
105°	97.6	97.9	98.2	98.5	98.8	99.0	99.1	99.3	99.5	99.7	99.9
107.5°	118.5	118.9	119.3	119.7	120.1	120.3	120.3	120.3	120.3	120.3	120.3
110°	138.5	139.1	139.7	140.3	140.9	141.2	141.2	141.2	141.2	141.2	141.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.3	160.9	161.5	162.1	162.7	163.0	163.0	162.9	162.8	162.7	162.6
115°	181.6	182.2	182.8	183.5	184.1	184.4	184.3	184.1	183.9	183.7	183.5
117.5°	203.0	203.8	204.6	205.4	206.2	206.6	206.3	205.8	205.3	204.8	204.3
120°	224.3	225.1	225.9	226.8	227.6	228.0	227.6	226.8	225.9	225.1	224.3
122.5°	243.9	244.9	245.9	246.9	247.9	248.4	248.1	247.6	247.1	246.6	246.1
125°	264.3	265.2	266.1	267.0	267.9	268.4	268.2	267.9	267.6	267.3	267.0
127.5°	284.3	285.4	286.5	287.6	288.7	289.3	289.1	288.7	288.2	287.8	287.4
130°	302.9	304.2	305.5	306.8	308.1	308.8	308.7	308.5	308.3	308.1	307.9
132.5°	323.8	324.8	325.8	326.8	327.8	328.3	328.4	328.5	328.6	328.7	328.8
135°	341.9	343.0	344.1	345.2	346.3	346.9	347.0	347.2	347.4	347.6	347.8
137.5°	361.9	362.8	363.7	364.6	365.5	366.0	366.1	366.3	366.5	366.7	366.9
140°	379.6	380.5	381.4	382.3	383.2	383.7	384.0	384.5	385.0	385.5	386.0
142.5°	397.8	398.7	399.6	400.5	401.4	401.9	402.0	402.3	402.6	402.9	403.2
145°	415.1	415.8	416.5	417.2	417.9	418.2	418.5	419.1	419.8	420.4	421.0
147.5°	430.5	431.4	432.3	433.2	434.1	434.6	434.8	435.2	435.6	436.0	436.4
150°	446.4	447.0	447.6	448.2	448.8	449.1	449.3	449.7	450.1	450.5	450.9
152.5°	460.5	461.1	461.7	462.3	462.9	463.2	463.5	464.0	464.5	465.0	465.5
155°	474.5	474.8	475.1	475.4	475.7	475.9	476.1	476.4	476.7	477.0	477.3
157.5°	486.8	487.0	487.2	487.4	487.6	487.7	487.8	488.0	488.2	488.4	488.6
160°	497.7	497.9	498.1	498.3	498.5	498.6	498.7	498.8	498.9	499.0	499.1
162.5°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.8	507.9	508.0	508.1
165°	516.3	516.2	516.1	516.0	515.9	515.9	515.9	515.9	515.9	515.9	515.9
167.5°	524.0	523.7	523.4	523.1	522.8	522.7	522.7	522.7	522.7	522.7	522.7
170°	529.9	529.6	529.3	529.0	528.7	528.6	528.5	528.4	528.3	528.2	528.1
172.5°	534.0	533.7	533.4	533.1	532.8	532.7	532.6	532.5	532.4	532.3	532.2
175°	537.2	536.9	536.6	536.3	536.0	535.8	535.7	535.5	535.3	535.1	534.9
177.5°	539.0	538.7	538.4	538.1	537.8	537.7	537.6	537.4	537.2	537.0	536.8
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

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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°	15.7	15.5	15.3	15.1	15.0	15.0	15.1	15.2	15.3	15.4	15.3
92.5°	14.2	14.3	14.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
95°	29.1	29.1	29.1	29.1	29.1	29.0	28.8	28.6	28.4	28.2	28.4
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
100°	62.7	62.7	62.7	62.7	62.7	62.6	62.5	62.4	62.3	62.2	62.3
102.5°	81.4	81.5	81.6	81.7	81.7	81.7	81.6	81.5	81.4	81.3	81.4
105°	100.1	100.3	100.5	100.7	100.8	100.8	100.8	100.8	100.8	100.8	100.8
107.5°	120.4	120.5	120.6	120.7	120.8	120.5	120.0	119.5	119.0	118.5	119.0
110°	141.2	141.2	141.2	141.2	141.2	141.1	140.8	140.5	140.2	139.9	140.2

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	162.3	162.0	161.7	161.4	161.2	161.1	160.9	160.7	160.5	160.3	160.5
115°	183.4	183.3	183.2	183.1	183.0	182.8	182.5	182.2	181.9	181.6	181.9
117.5°	204.0	203.7	203.4	203.1	203.0	202.8	202.5	202.2	201.9	201.6	201.9
120°	224.3	224.3	224.3	224.3	224.3	224.2	223.9	223.6	223.3	223.0	223.3
122.5°	245.8	245.5	245.2	244.9	244.8	244.7	244.5	244.3	244.1	243.9	244.1
125°	266.7	266.4	266.1	265.8	265.7	265.6	265.5	265.4	265.3	265.2	265.3
127.5°	287.0	286.6	286.2	285.8	285.6	285.5	285.2	284.9	284.6	284.3	284.6
130°	307.7	307.5	307.3	307.1	307.0	306.8	306.4	306.0	305.6	305.2	305.6
132.5°	328.3	327.8	327.3	326.8	326.5	326.3	326.0	325.7	325.4	325.1	325.4
135°	347.7	347.6	347.5	347.4	347.4	347.2	346.9	346.6	346.3	346.0	346.3
137.5°	366.8	366.7	366.6	366.5	366.5	366.3	365.9	365.4	365.0	364.6	365.0
140°	386.0	386.0	386.0	386.0	386.0	385.8	385.4	385.0	384.6	384.2	384.6
142.5°	403.3	403.4	403.5	403.6	403.7	403.5	403.1	402.7	402.3	401.9	402.3
145°	421.1	421.2	421.3	421.4	421.4	421.2	420.8	420.4	420.0	419.6	420.0
147.5°	436.6	436.8	437.0	437.2	437.3	437.1	436.7	436.3	435.9	435.5	435.9
150°	451.2	451.5	451.8	452.1	452.3	452.1	451.8	451.5	451.2	450.9	451.2
152.5°	465.9	466.3	466.7	467.1	467.3	467.1	466.7	466.3	465.9	465.5	465.9
155°	477.8	478.3	478.8	479.3	479.5	479.4	479.1	478.8	478.5	478.2	478.5
157.5°	489.3	490.0	490.7	491.4	491.8	491.5	491.0	490.5	490.0	489.5	490.0
160°	499.7	500.3	500.9	501.5	501.8	501.6	501.2	500.8	500.4	500.0	500.4
162.5°	508.8	509.5	510.2	510.9	511.3	511.1	510.6	510.1	509.6	509.1	509.6
165°	516.6	517.3	518.0	518.7	519.0	518.8	518.3	517.8	517.3	516.8	517.3
167.5°	523.4	524.1	524.8	525.5	525.9	525.6	525.1	524.6	524.1	523.6	524.1
170°	528.8	529.5	530.2	530.9	531.3	531.0	530.4	529.8	529.2	528.6	529.2
172.5°	532.9	533.6	534.3	535.0	535.4	535.1	534.5	533.9	533.3	532.7	533.3
175°	535.6	536.3	537.0	537.7	538.1	537.8	537.2	536.6	536.0	535.4	536.0
177.5°	537.4	538.0	538.6	539.2	539.5	539.2	538.6	538.0	537.4	536.8	537.4
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_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°	15.2	15.1	15.0	15.0	15.1	15.3	15.5	15.7	15.9	13.7	11.5
92.5°	14.5	14.5	14.5	14.5	14.5	14.4	14.3	14.2	14.1	14.0	13.9
95°	28.6	28.8	29.0	29.1	29.1	29.1	29.1	29.1	29.1	28.9	28.7
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.0	44.6
100°	62.4	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.4	62.1
102.5°	81.5	81.6	81.7	81.7	81.7	81.6	81.5	81.4	81.3	80.9	80.5
105°	100.8	100.8	100.8	100.8	100.7	100.5	100.3	100.1	99.9	99.7	99.5
107.5°	119.5	120.0	120.5	120.8	120.7	120.6	120.5	120.4	120.3	120.3	120.3
110°	140.5	140.8	141.1	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2

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CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	160.7	160.9	161.1	161.2	161.4	161.7	162.0	162.3	162.6	162.7	162.8
115°	182.2	182.5	182.8	183.0	183.1	183.2	183.3	183.4	183.5	183.7	183.9
117.5°	202.2	202.5	202.8	203.0	203.1	203.4	203.7	204.0	204.3	204.8	205.3
120°	223.6	223.9	224.2	224.3	224.3	224.3	224.3	224.3	224.3	225.1	225.9
122.5°	244.3	244.5	244.7	244.8	244.9	245.2	245.5	245.8	246.1	246.6	247.1
125°	265.4	265.5	265.6	265.7	265.8	266.1	266.4	266.7	267.0	267.3	267.6
127.5°	284.9	285.2	285.5	285.6	285.8	286.2	286.6	287.0	287.4	287.8	288.2
130°	306.0	306.4	306.8	307.0	307.1	307.3	307.5	307.7	307.9	308.1	308.3
132.5°	325.7	326.0	326.3	326.5	326.8	327.3	327.8	328.3	328.8	328.7	328.6
135°	346.6	346.9	347.2	347.4	347.4	347.5	347.6	347.7	347.8	347.6	347.4
137.5°	365.4	365.9	366.3	366.5	366.5	366.6	366.7	366.8	366.9	366.7	366.5
140°	385.0	385.4	385.8	386.0	386.0	386.0	386.0	386.0	386.0	385.5	385.0
142.5°	402.7	403.1	403.5	403.7	403.6	403.5	403.4	403.3	403.2	402.9	402.6
145°	420.4	420.8	421.2	421.4	421.4	421.3	421.2	421.1	421.0	420.4	419.8
147.5°	436.3	436.7	437.1	437.3	437.2	437.0	436.8	436.6	436.4	436.0	435.6
150°	451.5	451.8	452.1	452.3	452.1	451.8	451.5	451.2	450.9	450.5	450.1
152.5°	466.3	466.7	467.1	467.3	467.1	466.7	466.3	465.9	465.5	465.0	464.5
155°	478.8	479.1	479.4	479.5	479.3	478.8	478.3	477.8	477.3	477.0	476.7
157.5°	490.5	491.0	491.5	491.8	491.4	490.7	490.0	489.3	488.6	488.4	488.2
160°	500.8	501.2	501.6	501.8	501.5	500.9	500.3	499.7	499.1	499.0	498.9
162.5°	510.1	510.6	511.1	511.3	510.9	510.2	509.5	508.8	508.1	508.0	507.9
165°	517.8	518.3	518.8	519.0	518.7	518.0	517.3	516.6	515.9	515.9	515.9
167.5°	524.6	525.1	525.6	525.9	525.5	524.8	524.1	523.4	522.7	522.7	522.7
170°	529.8	530.4	531.0	531.3	530.9	530.2	529.5	528.8	528.1	528.2	528.3
172.5°	533.9	534.5	535.1	535.4	535.0	534.3	533.6	532.9	532.2	532.3	532.4
175°	536.6	537.2	537.8	538.1	537.7	537.0	536.3	535.6	534.9	535.1	535.3
177.5°	538.0	538.6	539.2	539.5	539.2	538.6	538.0	537.4	536.8	537.0	537.2
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_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°	9.2	7.0	5.9	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.8	13.7	13.6	13.2	12.4	11.6	10.8	10.0	10.8	11.6	12.4
95°	28.5	28.3	28.2	27.7	26.7	25.6	24.6	23.6	24.6	25.6	26.7
97.5°	44.2	43.8	43.6	43.1	42.2	41.3	40.4	39.5	40.4	41.3	42.2
100°	61.8	61.5	61.3	60.9	60.1	59.3	58.5	57.7	58.5	59.3	60.1
102.5°	80.1	79.7	79.5	79.2	78.6	77.9	77.3	76.7	77.3	77.9	78.6
105°	99.3	99.1	99.0	98.8	98.5	98.2	97.9	97.6	97.9	98.2	98.5
107.5°	120.3	120.3	120.3	120.1	119.7	119.3	118.9	118.5	118.9	119.3	119.7
110°	141.2	141.2	141.2	140.9	140.3	139.7	139.1	138.5	139.1	139.7	140.3

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	162.9	163.0	163.0	162.7	162.1	161.5	160.9	160.3	160.9	161.5	162.1
115°	184.1	184.3	184.4	184.1	183.5	182.8	182.2	181.6	182.2	182.8	183.5
117.5°	205.8	206.3	206.6	206.2	205.4	204.6	203.8	203.0	203.8	204.6	205.4
120°	226.8	227.6	228.0	227.6	226.8	225.9	225.1	224.3	225.1	225.9	226.8
122.5°	247.6	248.1	248.4	247.9	246.9	245.9	244.9	243.9	244.9	245.9	246.9
125°	267.9	268.2	268.4	267.9	267.0	266.1	265.2	264.3	265.2	266.1	267.0
127.5°	288.7	289.1	289.3	288.7	287.6	286.5	285.4	284.3	285.4	286.5	287.6
130°	308.5	308.7	308.8	308.1	306.8	305.5	304.2	302.9	304.2	305.5	306.8
132.5°	328.5	328.4	328.3	327.8	326.8	325.8	324.8	323.8	324.8	325.8	326.8
135°	347.2	347.0	346.9	346.3	345.2	344.1	343.0	341.9	343.0	344.1	345.2
137.5°	366.3	366.1	366.0	365.5	364.6	363.7	362.8	361.9	362.8	363.7	364.6
140°	384.5	384.0	383.7	383.2	382.3	381.4	380.5	379.6	380.5	381.4	382.3
142.5°	402.3	402.0	401.9	401.4	400.5	399.6	398.7	397.8	398.7	399.6	400.5
145°	419.1	418.5	418.2	417.9	417.2	416.5	415.8	415.1	415.8	416.5	417.2
147.5°	435.2	434.8	434.6	434.1	433.2	432.3	431.4	430.5	431.4	432.3	433.2
150°	449.7	449.3	449.1	448.8	448.2	447.6	447.0	446.4	447.0	447.6	448.2
152.5°	464.0	463.5	463.2	462.9	462.3	461.7	461.1	460.5	461.1	461.7	462.3
155°	476.4	476.1	475.9	475.7	475.4	475.1	474.8	474.5	474.8	475.1	475.4
157.5°	488.0	487.8	487.7	487.6	487.4	487.2	487.0	486.8	487.0	487.2	487.4
160°	498.8	498.7	498.6	498.5	498.3	498.1	497.9	497.7	497.9	498.1	498.3
162.5°	507.8	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
165°	515.9	515.9	515.9	515.9	516.0	516.1	516.2	516.3	516.2	516.1	516.0
167.5°	522.7	522.7	522.7	522.8	523.1	523.4	523.7	524.0	523.7	523.4	523.1
170°	528.4	528.5	528.6	528.7	529.0	529.3	529.6	529.9	529.6	529.3	529.0
172.5°	532.5	532.6	532.7	532.8	533.1	533.4	533.7	534.0	533.7	533.4	533.1
175°	535.5	535.7	535.8	536.0	536.3	536.6	536.9	537.2	536.9	536.6	536.3
177.5°	537.4	537.6	537.7	537.8	538.1	538.4	538.7	539.0	538.7	538.4	538.1
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_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°	5.3	5.9	7.0	9.2	11.5	13.7	15.9	15.7	15.5	15.3	15.1
92.5°	13.2	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5
95°	27.7	28.2	28.3	28.5	28.7	28.9	29.1	29.1	29.1	29.1	29.1
97.5°	43.1	43.6	43.8	44.2	44.6	45.0	45.4	45.4	45.4	45.4	45.4
100°	60.9	61.3	61.5	61.8	62.1	62.4	62.7	62.7	62.7	62.7	62.7
102.5°	79.2	79.5	79.7	80.1	80.5	80.9	81.3	81.4	81.5	81.6	81.7
105°	98.8	99.0	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.7
107.5°	120.1	120.3	120.3	120.3	120.3	120.3	120.3	120.4	120.5	120.6	120.7
110°	140.9	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2



TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	162.7	163.0	163.0	162.9	162.8	162.7	162.6	162.3	162.0	161.7	161.4
115°	184.1	184.4	184.3	184.1	183.9	183.7	183.5	183.4	183.3	183.2	183.1
117.5°	206.2	206.6	206.3	205.8	205.3	204.8	204.3	204.0	203.7	203.4	203.1
120°	227.6	228.0	227.6	226.8	225.9	225.1	224.3	224.3	224.3	224.3	224.3
122.5°	247.9	248.4	248.1	247.6	247.1	246.6	246.1	245.8	245.5	245.2	244.9
125°	267.9	268.4	268.2	267.9	267.6	267.3	267.0	266.7	266.4	266.1	265.8
127.5°	288.7	289.3	289.1	288.7	288.2	287.8	287.4	287.0	286.6	286.2	285.8
130°	308.1	308.8	308.7	308.5	308.3	308.1	307.9	307.7	307.5	307.3	307.1
132.5°	327.8	328.3	328.4	328.5	328.6	328.7	328.8	328.3	327.8	327.3	326.8
135°	346.3	346.9	347.0	347.2	347.4	347.6	347.8	347.7	347.6	347.5	347.4
137.5°	365.5	366.0	366.1	366.3	366.5	366.7	366.9	366.8	366.7	366.6	366.5
140°	383.2	383.7	384.0	384.5	385.0	385.5	386.0	386.0	386.0	386.0	386.0
142.5°	401.4	401.9	402.0	402.3	402.6	402.9	403.2	403.3	403.4	403.5	403.6
145°	417.9	418.2	418.5	419.1	419.8	420.4	421.0	421.1	421.2	421.3	421.4
147.5°	434.1	434.6	434.8	435.2	435.6	436.0	436.4	436.6	436.8	437.0	437.2
150°	448.8	449.1	449.3	449.7	450.1	450.5	450.9	451.2	451.5	451.8	452.1
152.5°	462.9	463.2	463.5	464.0	464.5	465.0	465.5	465.9	466.3	466.7	467.1
155°	475.7	475.9	476.1	476.4	476.7	477.0	477.3	477.8	478.3	478.8	479.3
157.5°	487.6	487.7	487.8	488.0	488.2	488.4	488.6	489.3	490.0	490.7	491.4
160°	498.5	498.6	498.7	498.8	498.9	499.0	499.1	499.7	500.3	500.9	501.5
162.5°	507.7	507.7	507.7	507.8	507.9	508.0	508.1	508.8	509.5	510.2	510.9
165°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	516.6	517.3	518.0	518.7
167.5°	522.8	522.7	522.7	522.7	522.7	522.7	522.7	523.4	524.1	524.8	525.5
170°	528.7	528.6	528.5	528.4	528.3	528.2	528.1	528.8	529.5	530.2	530.9
172.5°	532.8	532.7	532.6	532.5	532.4	532.3	532.2	532.9	533.6	534.3	535.0
175°	536.0	535.8	535.7	535.5	535.3	535.1	534.9	535.6	536.3	537.0	537.7
177.5°	537.8	537.7	537.6	537.4	537.2	537.0	536.8	537.4	538.0	538.6	539.2
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_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°	15.0	15.0	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.0
92.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
95°	29.1	29.0	28.8	28.6	28.4	28.2	28.4	28.6	28.8	29.0	29.1
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
100°	62.7	62.6	62.5	62.4	62.3	62.2	62.3	62.4	62.5	62.6	62.7
102.5°	81.7	81.7	81.6	81.5	81.4	81.3	81.4	81.5	81.6	81.7	81.7
105°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
107.5°	120.8	120.5	120.0	119.5	119.0	118.5	119.0	119.5	120.0	120.5	120.8
110°	141.2	141.1	140.8	140.5	140.2	139.9	140.2	140.5	140.8	141.1	141.2

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	161.2	161.1	160.9	160.7	160.5	160.3	160.5	160.7	160.9	161.1	161.2
115°	183.0	182.8	182.5	182.2	181.9	181.6	181.9	182.2	182.5	182.8	183.0
117.5°	203.0	202.8	202.5	202.2	201.9	201.6	201.9	202.2	202.5	202.8	203.0
120°	224.3	224.2	223.9	223.6	223.3	223.0	223.3	223.6	223.9	224.2	224.3
122.5°	244.8	244.7	244.5	244.3	244.1	243.9	244.1	244.3	244.5	244.7	244.8
125°	265.7	265.6	265.5	265.4	265.3	265.2	265.3	265.4	265.5	265.6	265.7
127.5°	285.6	285.5	285.2	284.9	284.6	284.3	284.6	284.9	285.2	285.5	285.6
130°	307.0	306.8	306.4	306.0	305.6	305.2	305.6	306.0	306.4	306.8	307.0
132.5°	326.5	326.3	326.0	325.7	325.4	325.1	325.4	325.7	326.0	326.3	326.5
135°	347.4	347.2	346.9	346.6	346.3	346.0	346.3	346.6	346.9	347.2	347.4
137.5°	366.5	366.3	365.9	365.4	365.0	364.6	365.0	365.4	365.9	366.3	366.5
140°	386.0	385.8	385.4	385.0	384.6	384.2	384.6	385.0	385.4	385.8	386.0
142.5°	403.7	403.5	403.1	402.7	402.3	401.9	402.3	402.7	403.1	403.5	403.7
145°	421.4	421.2	420.8	420.4	420.0	419.6	420.0	420.4	420.8	421.2	421.4
147.5°	437.3	437.1	436.7	436.3	435.9	435.5	435.9	436.3	436.7	437.1	437.3
150°	452.3	452.1	451.8	451.5	451.2	450.9	451.2	451.5	451.8	452.1	452.3
152.5°	467.3	467.1	466.7	466.3	465.9	465.5	465.9	466.3	466.7	467.1	467.3
155°	479.5	479.4	479.1	478.8	478.5	478.2	478.5	478.8	479.1	479.4	479.5
157.5°	491.8	491.5	491.0	490.5	490.0	489.5	490.0	490.5	491.0	491.5	491.8
160°	501.8	501.6	501.2	500.8	500.4	500.0	500.4	500.8	501.2	501.6	501.8
162.5°	511.3	511.1	510.6	510.1	509.6	509.1	509.6	510.1	510.6	511.1	511.3
165°	519.0	518.8	518.3	517.8	517.3	516.8	517.3	517.8	518.3	518.8	519.0
167.5°	525.9	525.6	525.1	524.6	524.1	523.6	524.1	524.6	525.1	525.6	525.9
170°	531.3	531.0	530.4	529.8	529.2	528.6	529.2	529.8	530.4	531.0	531.3
172.5°	535.4	535.1	534.5	533.9	533.3	532.7	533.3	533.9	534.5	535.1	535.4
175°	538.1	537.8	537.2	536.6	536.0	535.4	536.0	536.6	537.2	537.8	538.1
177.5°	539.5	539.2	538.6	538.0	537.4	536.8	537.4	538.0	538.6	539.2	539.5
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

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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°	15.1	15.3	15.5	15.7	15.9	13.7	11.5	9.2	7.0	5.9	5.3
92.5°	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.2
95°	29.1	29.1	29.1	29.1	29.1	28.9	28.7	28.5	28.3	28.2	27.7
97.5°	45.4	45.4	45.4	45.4	45.4	45.0	44.6	44.2	43.8	43.6	43.1
100°	62.7	62.7	62.7	62.7	62.7	62.4	62.1	61.8	61.5	61.3	60.9
102.5°	81.7	81.6	81.5	81.4	81.3	80.9	80.5	80.1	79.7	79.5	79.2
105°	100.7	100.5	100.3	100.1	99.9	99.7	99.5	99.3	99.1	99.0	98.8
107.5°	120.7	120.6	120.5	120.4	120.3	120.3	120.3	120.3	120.3	120.3	120.1
110°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	140.9



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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	161.4	161.7	162.0	162.3	162.6	162.7	162.8	162.9	163.0	163.0	162.7
115°	183.1	183.2	183.3	183.4	183.5	183.7	183.9	184.1	184.3	184.4	184.1
117.5°	203.1	203.4	203.7	204.0	204.3	204.8	205.3	205.8	206.3	206.6	206.2
120°	224.3	224.3	224.3	224.3	224.3	225.1	225.9	226.8	227.6	228.0	227.6
122.5°	244.9	245.2	245.5	245.8	246.1	246.6	247.1	247.6	248.1	248.4	247.9
125°	265.8	266.1	266.4	266.7	267.0	267.3	267.6	267.9	268.2	268.4	267.9
127.5°	285.8	286.2	286.6	287.0	287.4	287.8	288.2	288.7	289.1	289.3	288.7
130°	307.1	307.3	307.5	307.7	307.9	308.1	308.3	308.5	308.7	308.8	308.1
132.5°	326.8	327.3	327.8	328.3	328.8	328.7	328.6	328.5	328.4	328.3	327.8
135°	347.4	347.5	347.6	347.7	347.8	347.6	347.4	347.2	347.0	346.9	346.3
137.5°	366.5	366.6	366.7	366.8	366.9	366.7	366.5	366.3	366.1	366.0	365.5
140°	386.0	386.0	386.0	386.0	386.0	385.5	385.0	384.5	384.0	383.7	383.2
142.5°	403.6	403.5	403.4	403.3	403.2	402.9	402.6	402.3	402.0	401.9	401.4
145°	421.4	421.3	421.2	421.1	421.0	420.4	419.8	419.1	418.5	418.2	417.9
147.5°	437.2	437.0	436.8	436.6	436.4	436.0	435.6	435.2	434.8	434.6	434.1
150°	452.1	451.8	451.5	451.2	450.9	450.5	450.1	449.7	449.3	449.1	448.8
152.5°	467.1	466.7	466.3	465.9	465.5	465.0	464.5	464.0	463.5	463.2	462.9
155°	479.3	478.8	478.3	477.8	477.3	477.0	476.7	476.4	476.1	475.9	475.7
157.5°	491.4	490.7	490.0	489.3	488.6	488.4	488.2	488.0	487.8	487.7	487.6
160°	501.5	500.9	500.3	499.7	499.1	499.0	498.9	498.8	498.7	498.6	498.5
162.5°	510.9	510.2	509.5	508.8	508.1	508.0	507.9	507.8	507.7	507.7	507.7
165°	518.7	518.0	517.3	516.6	515.9	515.9	515.9	515.9	515.9	515.9	515.9
167.5°	525.5	524.8	524.1	523.4	522.7	522.7	522.7	522.7	522.7	522.7	522.8
170°	530.9	530.2	529.5	528.8	528.1	528.2	528.3	528.4	528.5	528.6	528.7
172.5°	535.0	534.3	533.6	532.9	532.2	532.3	532.4	532.5	532.6	532.7	532.8
175°	537.7	537.0	536.3	535.6	534.9	535.1	535.3	535.5	535.7	535.8	536.0
177.5°	539.2	538.6	538.0	537.4	536.8	537.0	537.2	537.4	537.6	537.7	537.8
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_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°	4.1	2.9	1.7	0.5
92.5°	12.4	11.6	10.8	10.0
95°	26.7	25.6	24.6	23.6
97.5°	42.2	41.3	40.4	39.5
100°	60.1	59.3	58.5	57.7
102.5°	78.6	77.9	77.3	76.7
105°	98.5	98.2	97.9	97.6
107.5°	119.7	119.3	118.9	118.5
110°	140.3	139.7	139.1	138.5



TEST NUMBER: P1029508

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	162.1	161.5	160.9	160.3
115°	183.5	182.8	182.2	181.6
117.5°	205.4	204.6	203.8	203.0
120°	226.8	225.9	225.1	224.3
122.5°	246.9	245.9	244.9	243.9
125°	267.0	266.1	265.2	264.3
127.5°	287.6	286.5	285.4	284.3
130°	306.8	305.5	304.2	302.9
132.5°	326.8	325.8	324.8	323.8
135°	345.2	344.1	343.0	341.9
137.5°	364.6	363.7	362.8	361.9
140°	382.3	381.4	380.5	379.6
142.5°	400.5	399.6	398.7	397.8
145°	417.2	416.5	415.8	415.1
147.5°	433.2	432.3	431.4	430.5
150°	448.2	447.6	447.0	446.4
152.5°	462.3	461.7	461.1	460.5
155°	475.4	475.1	474.8	474.5
157.5°	487.4	487.2	487.0	486.8
160°	498.3	498.1	497.9	497.7
162.5°	507.7	507.7	507.7	507.7
165°	516.0	516.1	516.2	516.3
167.5°	523.1	523.4	523.7	524.0
170°	529.0	529.3	529.6	529.9
172.5°	533.1	533.4	533.7	534.0
175°	536.3	536.6	536.9	537.2
177.5°	538.1	538.4	538.7	539.0
180°	538.1	538.1	538.1	538.1

(END OF REPORT)