

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: P1029511

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029511
REPORT IS A COMBINATION OF REPORTS P986110 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

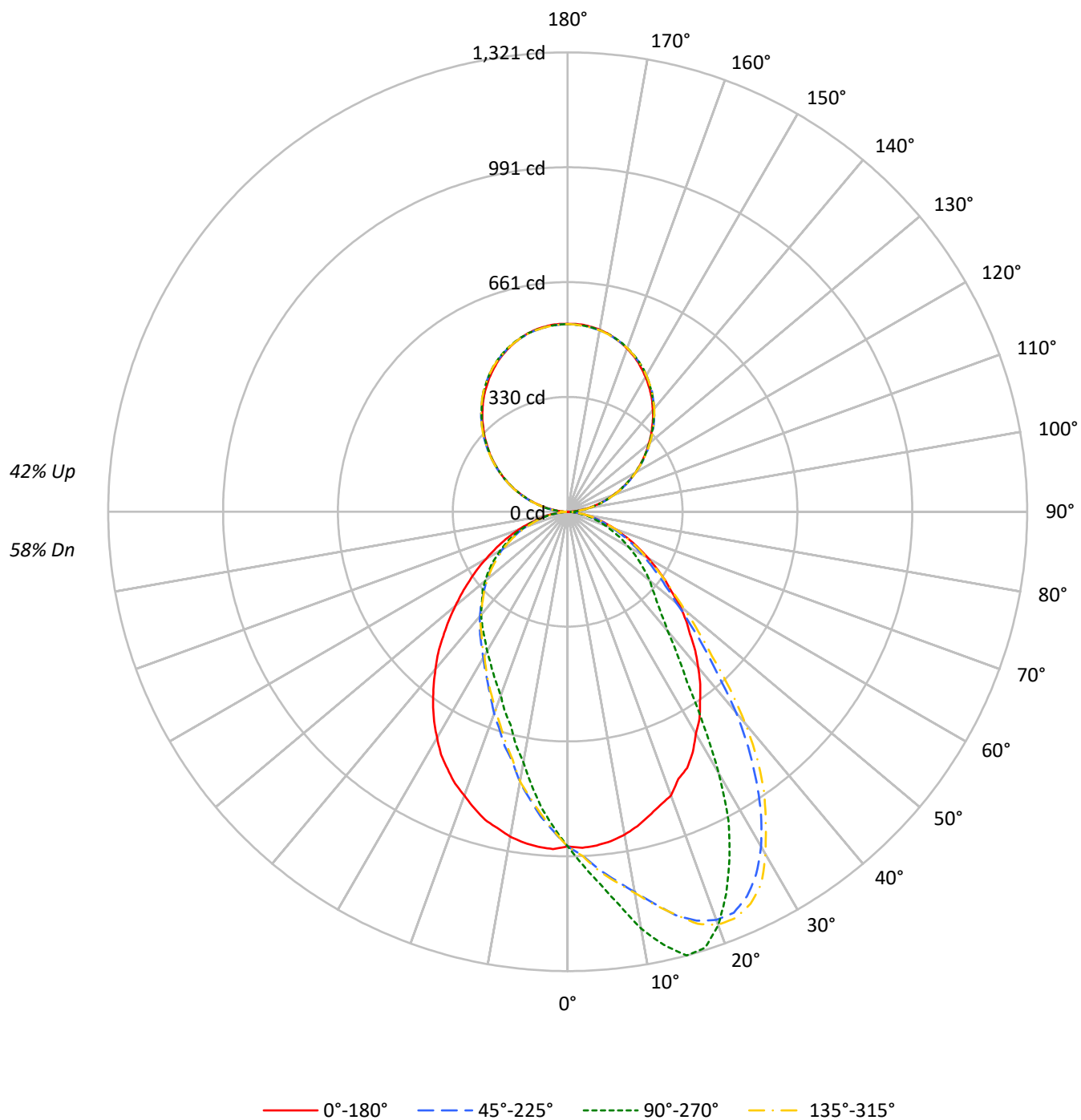
Lumens per Lamp: N/A
Luminaire Lumens: 3634.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	40	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	31	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°	15231	15231	15231	15231
5°	15268	16241	15327	12921
10°	15091	17729	15185	10653
15°	14726	18701	14929	8974
20°	14495	17558	14495	7799
25°	14033	15085	14096	6975
30°	13274	11858	13526	6317
35°	12599	8200	12810	5780
40°	11826	6191	11961	5351
45°	10872	5087	11049	4890
50°	10046	4465	10063	4476
55°	9105	3805	9164	4027
60°	8102	3179	8214	3514
65°	7206	2585	7337	3001
70°	6310	2027	6470	2420
75°	5298	1472	5505	1755
80°	4136	933	4431	1043
85°	2712	470	2924	348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	2.5
10°-20°	266.8	7.3
20°-30°	387.2	10.7
30°-40°	408.1	11.2
40°-50°	361.2	9.9
50°-60°	288.4	7.9
60°-70°	195.9	5.4
70°-80°	100.2	2.8
80°-90°	25.2	0.7
90°-100°	33.4	0.9
100°-110°	106.2	2.9
110°-120°	181.7	5.0
120°-130°	238.9	6.6
130°-140°	268.2	7.4
140°-150°	263.0	7.2
150°-160°	220.6	6.1
160°-170°	146.3	4.0
170°-180°	51.1	1.4
0°-30°	745.6	20.5
0°-40°	1153.7	31.7
0°-60°	1803.2	49.6
0°-90°	2124.5	58.5
90°-120°	321.2	8.8
90°-150°	1091.4	30.0
90°-180°	1509.0	41.5
0°-180°	3634.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	962	962	962	962	962	
5°	963	1075	967	855	963	91
15°	905	1321	917	634	905	255
25°	813	1101	816	509	813	372
35°	663	599	674	422	663	415
45°	498	361	506	347	498	386
55°	342	254	344	268	342	305
65°	203	156	206	181	203	201
75°	95	77	98	92	95	102
85°	19	20	21	15	19	22
90°	0	16	0	16	0	3
95°	24	28	24	28	24	26
105°	98	101	98	101	98	103
115°	182	182	182	182	182	180
125°	265	266	265	266	265	237
135°	343	347	343	347	343	265
145°	416	421	416	421	416	260
155°	476	480	476	480	476	219
165°	518	518	518	518	518	146
175°	539	537	539	537	539	51
180°	540	540	540	540	540	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	967.4	969.6	973.3	974.1	981.5	987.4	994.0	994.0	996.3	995.5	989.6
5°	963.0	969.6	979.3	987.4	1000.7	1006.6	1015.5	1022.2	1028.1	1032.5	1031.8
7.5°	955.6	967.4	981.5	997.0	1014.8	1025.1	1037.7	1049.5	1057.7	1065.0	1070.2
10°	943.0	963.0	982.2	1002.9	1025.8	1039.9	1054.7	1070.2	1082.8	1096.9	1110.2
12.5°	926.0	954.8	978.5	1005.9	1034.0	1049.5	1073.2	1085.0	1109.4	1144.9	1154.5
15°	904.6	943.8	965.9	1000.7	1037.7	1050.3	1082.8	1102.0	1152.3	1174.5	1201.1
17.5°	884.6	928.2	957.8	997.7	1034.0	1058.4	1090.2	1129.4	1171.6	1203.4	1232.9
20°	868.3	910.5	946.0	990.3	1036.2	1067.3	1100.6	1147.9	1193.7	1226.3	1249.2
22.5°	831.3	885.3	926.7	976.3	1031.8	1074.7	1106.5	1158.2	1207.8	1227.8	1247.7
25°	812.8	859.4	907.5	963.7	1028.8	1079.8	1107.2	1164.9	1208.5	1215.9	1220.4
27.5°	778.8	831.3	887.5	951.9	1028.1	1071.0	1105.7	1158.2	1193.0	1187.8	1174.5
30°	736.7	801.0	863.1	932.7	1017.7	1064.3	1096.9	1144.9	1162.7	1136.1	1112.4
32.5°	705.6	766.2	835.0	915.6	1005.9	1050.3	1082.1	1119.8	1123.5	1075.4	1035.5
35°	663.4	730.7	808.4	893.5	985.9	1025.8	1055.4	1078.4	1060.6	993.3	946.0
37.5°	625.7	692.3	775.1	861.7	958.5	997.7	1021.4	1025.1	981.5	922.3	852.8
40°	584.3	653.1	739.6	830.6	928.2	962.2	977.0	965.9	903.1	834.3	753.7
42.5°	542.9	610.9	704.1	797.3	889.8	918.6	924.5	894.2	817.3	736.7	643.5
45°	497.8	568.8	662.0	755.9	845.4	861.7	862.4	818.8	727.8	643.5	556.9
47.5°	460.8	526.6	619.1	713.0	788.4	799.5	795.1	744.8	645.7	551.0	475.6
50°	420.1	483.0	574.7	667.1	731.5	734.4	723.3	651.6	554.7	468.2	408.3
52.5°	376.5	440.1	524.4	613.1	670.8	666.4	644.9	568.0	477.1	405.3	359.5
55°	341.7	397.9	477.1	563.6	604.3	591.7	568.0	489.6	417.9	357.2	317.3
57.5°	303.2	352.8	430.5	505.9	529.6	517.7	494.1	420.8	354.3	308.4	281.8
60°	267.0	312.1	380.2	443.0	461.5	448.9	421.6	355.8	307.7	269.2	249.3
62.5°	233.7	272.9	329.9	387.6	395.0	382.4	358.7	305.5	264.0	233.7	218.9
65°	202.7	239.6	285.5	329.1	335.8	322.5	298.1	259.6	224.8	205.6	191.6
67.5°	172.3	201.9	242.6	274.4	278.1	265.5	245.6	214.5	193.0	172.3	162.0
70°	145.7	167.9	199.7	225.6	227.1	215.2	204.9	176.8	160.5	145.7	137.6
72.5°	119.8	135.4	159.8	179.0	179.7	172.3	162.7	145.0	130.9	120.6	112.4
75°	94.7	108.0	122.8	139.8	139.0	133.1	125.7	114.6	102.8	96.2	92.5
77.5°	72.5	80.6	92.5	103.5	103.5	100.6	96.2	88.0	80.6	74.0	70.3
80°	51.8	57.0	66.6	70.3	71.7	71.0	67.3	61.4	58.4	53.3	51.8
82.5°	33.3	37.0	41.4	45.1	47.3	45.9	45.1	42.2	37.7	36.2	34.8
85°	19.2	20.7	22.9	25.1	25.9	25.1	26.6	24.4	22.2	22.2	21.4
87.5°	8.1	8.9	10.4	10.4	11.1	11.1	10.4	11.1	11.1	10.4	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	12.5	13.3	13.7	13.7	13.8	13.9	14.0	14.1
95°	23.7	24.7	25.7	26.7	27.7	28.2	28.3	28.5	28.8	29.0	29.2
97.5°	39.6	40.5	41.4	42.3	43.2	43.7	43.9	44.3	44.8	45.2	45.6
100°	57.9	58.7	59.5	60.3	61.1	61.5	61.7	62.0	62.3	62.6	62.9
102.5°	77.0	77.6	78.2	78.8	79.4	79.7	79.9	80.3	80.8	81.2	81.6
105°	98.0	98.3	98.6	98.9	99.2	99.3	99.4	99.6	99.8	100.0	100.2
107.5°	118.9	119.3	119.7	120.1	120.5	120.7	120.7	120.7	120.7	120.7	120.7
110°	139.0	139.6	140.2	140.8	141.4	141.7	141.7	141.7	141.7	141.7	141.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.8	161.4	162.0	162.7	163.3	163.6	163.5	163.4	163.3	163.2	163.1
115°	182.2	182.8	183.4	184.1	184.7	185.0	184.9	184.7	184.5	184.3	184.1
117.5°	203.7	204.5	205.3	206.1	206.9	207.3	207.0	206.5	206.0	205.5	205.0
120°	225.1	225.9	226.7	227.5	228.3	228.7	228.3	227.5	226.7	225.9	225.1
122.5°	244.7	245.7	246.7	247.7	248.7	249.2	248.9	248.4	247.9	247.4	246.9
125°	265.2	266.1	267.0	267.9	268.8	269.3	269.1	268.8	268.5	268.2	267.9
127.5°	285.2	286.3	287.4	288.5	289.6	290.2	290.0	289.6	289.2	288.8	288.4
130°	303.9	305.2	306.5	307.8	309.1	309.8	309.7	309.5	309.3	309.1	308.9
132.5°	324.9	325.9	326.9	327.9	328.9	329.4	329.5	329.6	329.7	329.8	329.9
135°	343.1	344.2	345.3	346.4	347.5	348.1	348.2	348.4	348.6	348.8	349.0
137.5°	363.1	364.0	364.9	365.8	366.7	367.2	367.3	367.5	367.7	367.9	368.1
140°	380.9	381.8	382.7	383.6	384.5	385.0	385.3	385.8	386.3	386.8	387.3
142.5°	399.1	400.0	400.9	401.8	402.7	403.2	403.4	403.7	404.0	404.3	404.6
145°	416.4	417.1	417.8	418.5	419.2	419.6	419.9	420.5	421.2	421.8	422.4
147.5°	431.9	432.8	433.7	434.6	435.5	436.0	436.2	436.6	437.0	437.4	437.8
150°	447.9	448.5	449.1	449.7	450.3	450.6	450.8	451.2	451.6	452.0	452.4
152.5°	462.0	462.6	463.2	463.8	464.4	464.7	465.0	465.5	466.0	466.5	467.0
155°	476.1	476.4	476.7	477.0	477.3	477.5	477.6	477.9	478.2	478.5	478.8
157.5°	488.4	488.6	488.8	489.0	489.2	489.3	489.4	489.6	489.8	490.0	490.2
160°	499.4	499.6	499.8	500.0	500.2	500.3	500.3	500.4	500.5	500.6	500.7
162.5°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.5	509.6	509.7	509.8
165°	518.0	517.9	517.8	517.7	517.6	517.6	517.6	517.6	517.6	517.6	517.6
167.5°	525.8	525.5	525.2	524.9	524.6	524.4	524.4	524.4	524.4	524.4	524.4
170°	531.7	531.4	531.1	530.8	530.5	530.3	530.3	530.2	530.1	530.0	529.9
172.5°	535.8	535.5	535.2	534.9	534.6	534.4	534.4	534.3	534.2	534.1	534.0
175°	539.0	538.7	538.4	538.1	537.8	537.6	537.5	537.3	537.1	536.9	536.7
177.5°	540.8	540.5	540.2	539.9	539.6	539.4	539.3	539.1	538.9	538.7	538.5
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	1000.0	1000.7	1002.2	1009.6	1013.3	1014.0	1011.1	1017.7	1019.9	1017.7	1016.2
5°	1047.3	1051.7	1060.6	1070.2	1069.5	1070.2	1074.7	1079.1	1080.6	1074.7	1076.9
7.5°	1088.7	1097.6	1107.2	1122.0	1122.0	1129.4	1132.4	1136.1	1144.9	1140.5	1139.0
10°	1136.1	1147.9	1165.6	1189.3	1190.0	1197.4	1204.8	1216.7	1220.4	1217.4	1218.9
12.5°	1195.2	1218.2	1219.6	1245.5	1257.3	1258.8	1270.7	1268.4	1275.8	1275.8	1288.4
15°	1221.1	1256.6	1276.6	1301.7	1309.1	1300.2	1309.9	1320.2	1321.0	1321.0	1320.2
17.5°	1267.7	1281.8	1301.7	1315.0	1318.0	1318.0	1318.7	1323.2	1320.2	1314.3	1318.7
20°	1277.3	1283.2	1290.6	1289.2	1290.6	1283.2	1275.8	1268.4	1269.2	1265.5	1276.6
22.5°	1259.6	1258.1	1241.1	1230.0	1230.0	1215.2	1201.1	1194.5	1187.8	1190.0	1193.7
25°	1215.2	1192.3	1171.6	1155.3	1151.6	1127.9	1108.7	1102.8	1091.7	1100.6	1102.0
27.5°	1144.2	1118.3	1085.0	1071.0	1051.7	1042.1	1028.8	1011.1	988.1	1001.4	999.2
30°	1068.0	1029.5	1002.2	968.2	937.8	935.6	910.5	880.9	869.1	869.1	875.7
32.5°	983.0	931.9	892.0	843.9	814.3	801.7	771.4	741.8	748.5	726.3	734.4
35°	883.8	816.5	766.2	719.6	697.5	682.7	643.5	627.2	609.4	599.1	618.3
37.5°	789.2	711.5	647.2	596.1	588.0	561.4	534.7	524.4	514.0	518.5	517.7
40°	673.8	605.0	547.3	507.4	493.3	480.8	463.0	450.4	443.8	447.5	448.2
42.5°	569.5	511.8	468.9	440.8	429.0	420.1	411.2	400.9	398.7	398.7	401.6
45°	488.9	441.6	412.7	389.8	383.1	376.5	369.8	365.4	363.9	360.9	363.2
47.5°	424.5	386.8	369.1	352.1	344.7	343.2	337.3	335.0	332.1	331.3	332.1
50°	370.5	346.9	330.6	321.0	315.8	313.6	310.6	306.2	304.7	308.4	306.9
52.5°	332.8	310.6	301.8	292.1	289.2	286.2	281.8	282.5	281.8	280.3	280.3
55°	295.1	281.1	272.2	264.8	264.0	261.1	257.4	255.9	255.2	253.7	255.9
57.5°	264.8	253.7	245.6	238.9	235.9	235.9	232.2	229.3	229.3	228.5	229.3
60°	234.5	223.4	218.2	211.5	209.3	208.6	206.4	204.9	202.7	202.7	202.7
62.5°	206.4	197.5	191.6	185.6	186.4	182.7	179.7	178.2	178.2	179.0	179.0
65°	179.7	173.8	166.4	161.2	159.8	159.0	157.5	156.8	154.6	156.1	156.1
67.5°	155.3	147.2	142.7	140.5	138.3	137.6	136.1	134.6	133.9	133.1	134.6
70°	130.9	124.3	120.6	119.1	116.9	116.1	115.4	113.2	113.9	114.6	115.4
72.5°	108.7	102.8	102.1	97.6	97.6	97.6	94.7	96.2	95.4	93.9	95.4
75°	85.8	82.8	81.4	79.1	79.9	79.1	78.4	76.2	76.2	76.9	77.7
77.5°	68.0	65.1	64.3	62.1	60.6	62.1	60.6	59.9	59.9	60.6	60.6
80°	50.3	48.8	46.6	46.6	46.6	45.9	45.9	45.9	45.1	44.4	45.1
82.5°	33.3	33.3	32.5	31.8	32.5	31.1	31.8	31.8	31.8	31.8	31.8
85°	21.4	20.7	20.7	20.0	20.0	20.0	20.7	19.2	19.2	20.0	20.0
87.5°	9.6	9.6	9.6	10.4	9.6	9.6	9.6	10.4	9.6	9.6	9.6
90°	15.7	15.5	15.3	15.1	15.0	15.1	15.2	15.3	15.4	15.5	15.4
92.5°	14.2	14.3	14.4	14.5	14.6	14.6	14.6	14.6	14.6	14.6	14.6
95°	29.2	29.2	29.2	29.2	29.2	29.1	28.9	28.6	28.4	28.2	28.4
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
100°	62.9	62.9	62.9	62.9	62.9	62.8	62.7	62.6	62.5	62.4	62.5
102.5°	81.7	81.8	81.9	82.0	82.0	82.0	81.9	81.8	81.7	81.6	81.7
105°	100.4	100.6	100.8	101.0	101.1	101.1	101.1	101.1	101.1	101.1	101.1
107.5°	120.8	120.9	121.0	121.1	121.2	120.9	120.4	119.9	119.4	118.9	119.4
110°	141.7	141.7	141.7	141.7	141.7	141.5	141.2	140.9	140.6	140.3	140.6

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	162.8	162.5	162.2	161.9	161.7	161.6	161.4	161.2	161.0	160.8	161.0
115°	184.0	183.9	183.8	183.7	183.6	183.4	183.1	182.8	182.5	182.2	182.5
117.5°	204.7	204.4	204.1	203.8	203.7	203.5	203.2	202.9	202.6	202.3	202.6
120°	225.1	225.1	225.1	225.1	225.1	224.9	224.6	224.3	224.0	223.7	224.0
122.5°	246.6	246.3	246.0	245.7	245.6	245.5	245.3	245.1	244.9	244.7	244.9
125°	267.6	267.3	267.0	266.7	266.5	266.5	266.4	266.3	266.2	266.1	266.2
127.5°	288.0	287.6	287.2	286.8	286.6	286.4	286.1	285.8	285.5	285.2	285.5
130°	308.7	308.5	308.3	308.1	308.0	307.8	307.4	307.0	306.6	306.2	306.6
132.5°	329.4	328.9	328.4	327.9	327.6	327.4	327.1	326.8	326.5	326.2	326.5
135°	348.9	348.8	348.7	348.6	348.5	348.4	348.1	347.8	347.5	347.2	347.5
137.5°	368.0	367.9	367.8	367.7	367.7	367.5	367.1	366.7	366.3	365.9	366.3
140°	387.3	387.3	387.3	387.3	387.3	387.1	386.7	386.2	385.8	385.4	385.8
142.5°	404.7	404.8	404.9	405.0	405.0	404.8	404.4	404.0	403.6	403.2	403.6
145°	422.5	422.6	422.7	422.8	422.8	422.6	422.2	421.8	421.4	421.0	421.4
147.5°	438.0	438.2	438.5	438.7	438.8	438.6	438.2	437.7	437.3	436.9	437.3
150°	452.7	453.0	453.3	453.6	453.8	453.6	453.3	453.0	452.7	452.4	452.7
152.5°	467.4	467.8	468.2	468.6	468.8	468.6	468.2	467.8	467.4	467.0	467.4
155°	479.3	479.8	480.3	480.8	481.1	481.0	480.7	480.4	480.1	479.8	480.1
157.5°	490.9	491.6	492.3	493.0	493.4	493.2	492.7	492.2	491.7	491.2	491.7
160°	501.3	501.9	502.6	503.2	503.5	503.3	502.9	502.4	502.0	501.6	502.0
162.5°	510.5	511.2	511.9	512.6	513.0	512.7	512.2	511.7	511.2	510.7	511.2
165°	518.3	519.0	519.7	520.4	520.8	520.5	520.0	519.5	519.0	518.5	519.0
167.5°	525.1	525.8	526.5	527.2	527.6	527.3	526.8	526.3	525.8	525.3	525.8
170°	530.6	531.3	532.0	532.7	533.1	532.8	532.2	531.5	530.9	530.3	530.9
172.5°	534.7	535.4	536.1	536.8	537.2	536.9	536.3	535.6	535.0	534.4	535.0
175°	537.4	538.1	538.8	539.5	539.9	539.6	539.0	538.4	537.8	537.2	537.8
177.5°	539.1	539.7	540.4	541.0	541.3	541.0	540.4	539.7	539.1	538.5	539.1
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	1019.9	1014.8	1010.3	1011.1	1014.8	1011.8	1004.4	994.8	991.1	986.6	991.1
5°	1081.3	1076.9	1068.0	1068.7	1066.5	1063.6	1051.7	1036.9	1036.9	1025.1	1023.6
7.5°	1142.0	1135.3	1129.4	1127.9	1119.8	1113.9	1103.5	1082.8	1074.7	1060.6	1052.5
10°	1210.0	1204.8	1198.2	1190.0	1185.6	1175.3	1158.2	1127.9	1113.1	1093.9	1079.8
12.5°	1278.8	1278.1	1263.3	1247.0	1246.3	1230.0	1218.2	1177.5	1157.5	1131.6	1098.3
15°	1322.4	1318.7	1310.6	1302.5	1304.7	1286.9	1260.3	1212.2	1198.9	1167.9	1132.4
17.5°	1321.7	1321.7	1319.5	1318.0	1315.8	1310.6	1295.8	1264.0	1242.6	1203.4	1170.1
20°	1279.5	1289.2	1291.4	1290.6	1298.0	1301.7	1301.0	1281.0	1264.0	1229.2	1195.2
22.5°	1195.2	1217.4	1227.0	1232.9	1248.5	1256.6	1275.8	1268.4	1264.0	1238.1	1209.3
25°	1116.8	1124.2	1153.1	1154.5	1176.0	1196.0	1215.2	1227.8	1244.0	1234.4	1210.0
27.5°	1015.5	1032.5	1053.2	1068.7	1073.2	1113.9	1145.7	1169.3	1206.3	1209.3	1201.1
30°	900.9	909.0	943.0	963.7	987.4	1017.0	1062.8	1103.5	1136.8	1167.1	1177.5
32.5°	761.1	794.3	814.3	839.5	860.2	912.7	968.9	1021.4	1059.9	1110.9	1133.1
35°	633.1	659.0	693.0	703.4	741.1	785.5	858.7	926.0	984.4	1036.2	1081.3
37.5°	527.3	548.1	584.3	600.6	622.8	679.7	741.1	824.7	894.9	958.5	1014.8
40°	454.9	470.4	497.8	502.9	521.4	573.2	622.8	701.2	794.3	880.1	941.5
42.5°	405.3	412.7	431.2	437.9	449.7	484.4	528.8	602.8	689.3	778.1	864.6
45°	369.8	375.0	386.1	392.0	406.8	422.3	458.6	517.7	585.8	675.3	768.5
47.5°	338.0	344.7	349.1	352.8	360.9	377.9	401.6	445.2	510.3	592.4	682.7
50°	311.4	313.6	321.7	322.5	327.7	338.7	360.9	387.6	439.3	505.9	593.2
52.5°	284.8	287.0	292.1	297.3	299.5	308.4	323.2	345.4	383.9	436.4	514.0
55°	258.1	261.1	266.3	270.0	272.2	279.6	288.5	309.9	340.2	377.2	440.8
57.5°	231.5	238.2	239.6	241.9	245.6	253.7	261.8	274.4	298.1	332.1	378.7
60°	206.4	208.6	213.7	216.0	219.7	224.1	234.5	244.1	261.1	287.7	329.9
62.5°	180.5	185.6	187.9	190.1	193.0	198.2	204.9	215.2	230.0	251.5	284.8
65°	158.3	159.0	163.5	166.4	169.4	173.1	179.7	189.3	198.2	218.2	242.6
67.5°	136.8	138.3	139.8	142.7	146.4	150.1	156.1	161.2	172.3	185.6	204.9
70°	116.1	116.1	119.8	122.0	121.3	125.7	130.2	136.1	144.2	156.8	172.3
72.5°	97.6	96.9	99.8	100.6	102.1	105.0	108.0	113.9	118.3	128.0	139.8
75°	77.7	79.1	80.6	80.6	82.8	85.1	88.0	91.0	96.2	102.1	110.9
77.5°	61.4	61.4	62.9	63.6	65.8	65.1	68.0	71.0	74.7	79.9	86.5
80°	45.1	46.6	46.6	46.6	47.3	48.1	51.0	53.3	55.5	59.2	62.1
82.5°	31.8	31.8	33.3	33.3	33.3	34.8	34.8	35.5	37.0	39.2	41.4
85°	20.0	20.0	20.0	20.7	20.0	20.7	22.2	21.4	22.2	23.7	23.7
87.5°	9.6	9.6	9.6	9.6	9.6	10.4	9.6	10.4	11.1	11.1	11.1
90°	15.3	15.2	15.1	15.0	15.1	15.3	15.5	15.7	15.9	13.7	11.5
92.5°	14.6	14.6	14.6	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9
95°	28.6	28.9	29.1	29.2	29.2	29.2	29.2	29.2	29.2	29.0	28.8
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.2	44.8
100°	62.6	62.7	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.6	62.3
102.5°	81.8	81.9	82.0	82.0	82.0	81.9	81.8	81.7	81.6	81.2	80.8
105°	101.1	101.1	101.1	101.1	101.0	100.8	100.6	100.4	100.2	100.0	99.8
107.5°	119.9	120.4	120.9	121.2	121.1	121.0	120.9	120.8	120.7	120.7	120.7
110°	140.9	141.2	141.5	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	161.2	161.4	161.6	161.7	161.9	162.2	162.5	162.8	163.1	163.2	163.3
115°	182.8	183.1	183.4	183.6	183.7	183.8	183.9	184.0	184.1	184.3	184.5
117.5°	202.9	203.2	203.5	203.7	203.8	204.1	204.4	204.7	205.0	205.5	206.0
120°	224.3	224.6	224.9	225.1	225.1	225.1	225.1	225.1	225.1	225.9	226.7
122.5°	245.1	245.3	245.5	245.6	245.7	246.0	246.3	246.6	246.9	247.4	247.9
125°	266.3	266.4	266.5	266.5	266.7	267.0	267.3	267.6	267.9	268.2	268.5
127.5°	285.8	286.1	286.4	286.6	286.8	287.2	287.6	288.0	288.4	288.8	289.2
130°	307.0	307.4	307.8	308.0	308.1	308.3	308.5	308.7	308.9	309.1	309.3
132.5°	326.8	327.1	327.4	327.6	327.9	328.4	328.9	329.4	329.9	329.8	329.7
135°	347.8	348.1	348.4	348.5	348.6	348.7	348.8	348.9	349.0	348.8	348.6
137.5°	366.7	367.1	367.5	367.7	367.7	367.8	367.9	368.0	368.1	367.9	367.7
140°	386.2	386.7	387.1	387.3	387.3	387.3	387.3	387.3	387.3	386.8	386.3
142.5°	404.0	404.4	404.8	405.0	405.0	404.9	404.8	404.7	404.6	404.3	404.0
145°	421.8	422.2	422.6	422.8	422.8	422.7	422.6	422.5	422.4	421.8	421.2
147.5°	437.7	438.2	438.6	438.8	438.7	438.5	438.2	438.0	437.8	437.4	437.0
150°	453.0	453.3	453.6	453.8	453.6	453.3	453.0	452.7	452.4	452.0	451.6
152.5°	467.8	468.2	468.6	468.8	468.6	468.2	467.8	467.4	467.0	466.5	466.0
155°	480.4	480.7	481.0	481.1	480.8	480.3	479.8	479.3	478.8	478.5	478.2
157.5°	492.2	492.7	493.2	493.4	493.0	492.3	491.6	490.9	490.2	490.0	489.8
160°	502.4	502.9	503.3	503.5	503.2	502.6	501.9	501.3	500.7	500.6	500.5
162.5°	511.7	512.2	512.7	513.0	512.6	511.9	511.2	510.5	509.8	509.7	509.6
165°	519.5	520.0	520.5	520.8	520.4	519.7	519.0	518.3	517.6	517.6	517.6
167.5°	526.3	526.8	527.3	527.6	527.2	526.5	525.8	525.1	524.4	524.4	524.4
170°	531.5	532.2	532.8	533.1	532.7	532.0	531.3	530.6	529.9	530.0	530.1
172.5°	535.6	536.3	536.9	537.2	536.8	536.1	535.4	534.7	534.0	534.1	534.2
175°	538.4	539.0	539.6	539.9	539.5	538.8	538.1	537.4	536.7	536.9	537.1
177.5°	539.7	540.4	541.0	541.3	541.0	540.4	539.7	539.1	538.5	538.7	538.9
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	987.4	983.7	981.5	983.0	978.5	967.4	967.4	971.1	966.7	962.2	955.6
5°	1014.8	1007.4	1002.9	1002.2	991.8	974.1	970.4	966.7	957.1	946.7	935.6
7.5°	1041.4	1028.1	1020.7	1015.5	1000.7	977.8	968.2	960.0	944.5	929.0	914.9
10°	1063.6	1044.3	1035.5	1027.3	1008.1	979.3	963.7	948.9	929.0	909.0	891.2
12.5°	1081.3	1059.1	1048.0	1036.2	1012.5	974.8	955.6	931.9	911.9	885.3	867.6
15°	1110.9	1065.0	1054.7	1043.6	1019.2	967.4	943.8	917.1	889.8	854.3	835.0
17.5°	1134.6	1073.2	1072.4	1048.8	1017.0	964.5	928.2	893.5	863.9	828.4	798.0
20°	1148.6	1085.8	1073.9	1049.5	1009.6	944.5	906.8	868.3	836.5	793.6	763.3
22.5°	1160.5	1103.5	1072.4	1042.9	994.0	937.8	882.4	846.1	802.5	755.9	727.0
25°	1164.9	1107.2	1074.7	1040.6	983.0	918.6	855.7	816.5	767.7	725.6	686.4
27.5°	1165.6	1106.5	1066.5	1031.0	967.4	893.5	829.1	787.7	733.7	684.9	645.7
30°	1158.2	1098.3	1062.1	1023.6	952.6	870.5	796.6	750.7	693.0	644.2	603.5
32.5°	1136.1	1082.1	1052.5	1010.3	933.4	838.7	765.5	714.5	653.8	605.7	566.5
35°	1099.1	1062.1	1029.5	990.3	908.3	809.1	734.4	674.5	613.1	567.3	530.3
37.5°	1053.2	1033.2	1002.9	964.5	879.4	782.5	699.7	633.1	571.7	527.3	491.1
40°	991.1	996.3	966.7	931.9	845.4	746.3	654.6	591.0	533.3	491.8	456.3
42.5°	923.8	945.2	928.2	894.9	807.7	706.3	621.3	551.0	494.8	451.9	422.3
45°	851.3	888.3	877.9	853.5	768.5	664.2	573.9	505.9	456.3	414.9	389.0
47.5°	772.2	824.7	824.7	806.9	724.8	622.0	533.3	463.7	414.9	385.3	360.2
50°	691.5	750.7	760.3	748.5	676.0	573.9	483.7	420.8	378.7	349.8	331.3
52.5°	607.2	676.0	693.8	687.8	624.2	528.1	443.0	381.6	343.2	318.0	301.8
55°	526.6	606.5	625.7	627.9	568.8	477.8	397.9	343.9	306.9	289.9	275.9
57.5°	450.4	527.3	548.8	552.5	512.6	431.9	355.8	308.4	275.1	261.1	250.0
60°	385.3	449.7	477.8	485.9	451.2	378.7	316.6	270.7	245.6	232.2	221.9
62.5°	332.1	383.9	413.4	415.7	400.1	332.1	275.9	237.4	216.0	204.1	199.0
65°	280.3	326.9	344.7	353.5	341.0	287.7	238.2	206.4	189.3	179.0	173.8
67.5°	238.9	268.5	283.3	295.1	282.5	242.6	202.7	176.8	164.2	153.8	150.9
70°	196.0	220.4	231.5	243.3	232.2	201.9	173.1	149.4	138.3	130.2	126.5
72.5°	156.8	176.0	186.4	193.8	187.1	162.0	138.3	122.0	113.9	108.0	105.8
75°	124.3	137.6	143.5	148.7	145.7	126.5	111.7	98.4	91.0	85.8	84.3
77.5°	94.7	104.3	110.9	112.4	108.7	96.2	83.6	75.4	69.5	66.6	65.1
80°	67.3	73.2	76.9	79.1	75.4	70.3	61.4	55.5	50.3	46.6	45.9
82.5°	45.1	48.1	51.0	50.3	48.8	44.4	39.2	36.2	34.0	31.1	31.1
85°	25.9	26.6	28.1	28.8	28.1	25.1	22.2	20.7	19.2	17.0	17.0
87.5°	11.1	11.8	11.8	12.6	11.1	11.1	9.6	8.1	8.1	7.4	6.7
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	13.7	13.3	12.5	11.6	10.8	10.0	10.8	11.6	12.5
95°	28.5	28.3	28.2	27.7	26.7	25.7	24.7	23.7	24.7	25.7	26.7
97.5°	44.3	43.9	43.7	43.2	42.3	41.4	40.5	39.6	40.5	41.4	42.3
100°	62.0	61.7	61.5	61.1	60.3	59.5	58.7	57.9	58.7	59.5	60.3
102.5°	80.3	79.9	79.7	79.4	78.8	78.2	77.6	77.0	77.6	78.2	78.8
105°	99.6	99.4	99.3	99.2	98.9	98.6	98.3	98.0	98.3	98.6	98.9
107.5°	120.7	120.7	120.7	120.5	120.1	119.7	119.3	118.9	119.3	119.7	120.1
110°	141.7	141.7	141.7	141.4	140.8	140.2	139.6	139.0	139.6	140.2	140.8

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	163.4	163.5	163.6	163.3	162.7	162.0	161.4	160.8	161.4	162.0	162.7
115°	184.7	184.9	185.0	184.7	184.1	183.4	182.8	182.2	182.8	183.4	184.1
117.5°	206.5	207.0	207.3	206.9	206.1	205.3	204.5	203.7	204.5	205.3	206.1
120°	227.5	228.3	228.7	228.3	227.5	226.7	225.9	225.1	225.9	226.7	227.5
122.5°	248.4	248.9	249.2	248.7	247.7	246.7	245.7	244.7	245.7	246.7	247.7
125°	268.8	269.1	269.3	268.8	267.9	267.0	266.1	265.2	266.1	267.0	267.9
127.5°	289.6	290.0	290.2	289.6	288.5	287.4	286.3	285.2	286.3	287.4	288.5
130°	309.5	309.7	309.8	309.1	307.8	306.5	305.2	303.9	305.2	306.5	307.8
132.5°	329.6	329.5	329.4	328.9	327.9	326.9	325.9	324.9	325.9	326.9	327.9
135°	348.4	348.2	348.1	347.5	346.4	345.3	344.2	343.1	344.2	345.3	346.4
137.5°	367.5	367.3	367.2	366.7	365.8	364.9	364.0	363.1	364.0	364.9	365.8
140°	385.8	385.3	385.0	384.5	383.6	382.7	381.8	380.9	381.8	382.7	383.6
142.5°	403.7	403.4	403.2	402.7	401.8	400.9	400.0	399.1	400.0	400.9	401.8
145°	420.5	419.9	419.6	419.2	418.5	417.8	417.1	416.4	417.1	417.8	418.5
147.5°	436.6	436.2	436.0	435.5	434.6	433.7	432.8	431.9	432.8	433.7	434.6
150°	451.2	450.8	450.6	450.3	449.7	449.1	448.5	447.9	448.5	449.1	449.7
152.5°	465.5	465.0	464.7	464.4	463.8	463.2	462.6	462.0	462.6	463.2	463.8
155°	477.9	477.6	477.5	477.3	477.0	476.7	476.4	476.1	476.4	476.7	477.0
157.5°	489.6	489.4	489.3	489.2	489.0	488.8	488.6	488.4	488.6	488.8	489.0
160°	500.4	500.3	500.3	500.2	500.0	499.8	499.6	499.4	499.6	499.8	500.0
162.5°	509.5	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
165°	517.6	517.6	517.6	517.6	517.7	517.8	517.9	518.0	517.9	517.8	517.7
167.5°	524.4	524.4	524.4	524.6	524.9	525.2	525.5	525.8	525.5	525.2	524.9
170°	530.2	530.3	530.3	530.5	530.8	531.1	531.4	531.7	531.4	531.1	530.8
172.5°	534.3	534.4	534.4	534.6	534.9	535.2	535.5	535.8	535.5	535.2	534.9
175°	537.3	537.5	537.6	537.8	538.1	538.4	538.7	539.0	538.7	538.4	538.1
177.5°	539.1	539.3	539.4	539.6	539.9	540.2	540.5	540.8	540.5	540.2	539.9
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	951.9	955.6	954.8	947.5	939.3	932.7	920.1	921.6	917.1	917.9	922.3
5°	928.2	928.2	925.3	914.9	901.6	894.2	880.1	876.4	867.6	866.8	866.1
7.5°	903.1	899.4	895.7	880.9	864.6	852.8	833.5	829.1	820.2	814.3	811.4
10°	873.5	868.3	860.9	843.9	823.9	809.1	789.2	783.3	766.2	758.8	754.4
12.5°	840.9	838.0	826.2	812.1	779.6	763.3	734.4	740.4	723.3	708.6	706.3
15°	808.4	797.3	790.7	767.7	728.5	721.1	698.2	686.4	670.8	659.0	659.0
17.5°	776.6	759.6	744.8	720.4	691.5	670.8	653.8	647.9	628.7	616.8	614.6
20°	734.4	715.2	711.5	676.8	656.8	633.9	617.6	602.8	588.7	583.6	579.9
22.5°	694.5	672.3	666.4	636.8	616.8	593.9	577.6	567.3	556.9	553.2	546.6
25°	651.6	638.3	629.4	597.6	575.4	554.0	542.9	535.5	525.9	525.1	520.7
27.5°	610.2	597.6	588.7	558.4	542.1	522.2	513.3	505.2	500.0	497.8	495.5
30°	574.7	560.6	550.3	528.1	508.1	491.8	484.4	479.3	476.3	472.6	471.9
32.5°	535.5	527.3	513.3	496.3	480.8	465.2	460.8	457.1	452.6	451.2	450.4
35°	502.2	491.1	482.2	463.0	456.3	443.0	437.9	434.9	429.0	427.5	426.0
37.5°	469.7	459.3	449.7	437.9	425.3	417.9	414.9	410.5	407.5	408.3	406.8
40°	437.1	429.0	421.6	409.0	401.6	397.9	392.0	387.6	386.1	386.8	386.1
42.5°	405.3	397.9	393.5	383.9	376.5	372.8	369.1	364.6	366.9	366.9	369.1
45°	376.5	369.8	366.9	359.5	355.0	349.1	345.4	344.7	347.6	346.9	346.9
47.5°	346.9	344.7	341.0	334.3	328.4	324.7	324.0	324.0	326.9	328.4	327.7
50°	324.0	319.5	315.1	309.9	305.5	304.0	301.8	303.2	306.2	306.2	307.7
52.5°	295.1	292.1	290.7	286.2	283.3	283.3	283.3	284.0	286.2	288.5	287.7
55°	270.0	267.7	266.3	264.0	260.3	261.1	260.3	261.8	264.0	266.3	267.7
57.5°	243.3	242.6	241.1	237.4	237.4	236.7	238.9	239.6	243.3	244.8	247.0
60°	219.7	217.4	217.4	214.5	214.5	214.5	216.7	218.9	221.9	222.6	224.1
62.5°	194.5	194.5	193.8	191.6	191.6	193.8	194.5	197.5	199.0	199.0	201.2
65°	170.9	170.1	169.4	170.1	170.9	170.9	173.1	174.5	176.0	176.8	177.5
67.5°	147.2	146.4	147.9	147.2	148.7	151.6	150.9	153.1	155.3	155.3	156.1
70°	125.0	126.5	125.7	127.2	126.5	128.0	130.2	130.9	130.9	131.7	133.9
72.5°	104.3	104.3	104.3	103.5	104.3	105.8	107.2	108.0	109.5	110.2	112.4
75°	84.3	84.3	82.8	84.3	84.3	85.8	87.3	87.3	87.3	88.8	91.0
77.5°	63.6	64.3	63.6	65.1	65.1	65.8	67.3	66.6	68.0	68.8	69.5
80°	46.6	45.9	45.9	45.9	46.6	46.6	48.1	48.8	48.8	51.0	49.6
82.5°	29.6	30.3	29.6	30.3	30.3	31.1	30.3	31.1	31.8	33.3	32.5
85°	17.0	16.3	16.3	17.0	16.3	16.3	17.0	16.3	17.0	16.3	17.0
87.5°	6.7	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°	13.3	13.7	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	28.8	29.0	29.2	29.2	29.2	29.2	29.2
97.5°	43.2	43.7	43.9	44.3	44.8	45.2	45.6	45.6	45.6	45.6	45.6
100°	61.1	61.5	61.7	62.0	62.3	62.6	62.9	62.9	62.9	62.9	62.9
102.5°	79.4	79.7	79.9	80.3	80.8	81.2	81.6	81.7	81.8	81.9	82.0
105°	99.2	99.3	99.4	99.6	99.8	100.0	100.2	100.4	100.6	100.8	101.0
107.5°	120.5	120.7	120.7	120.7	120.7	120.7	120.7	120.8	120.9	121.0	121.1
110°	141.4	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	163.3	163.6	163.5	163.4	163.3	163.2	163.1	162.8	162.5	162.2	161.9
115°	184.7	185.0	184.9	184.7	184.5	184.3	184.1	184.0	183.9	183.8	183.7
117.5°	206.9	207.3	207.0	206.5	206.0	205.5	205.0	204.7	204.4	204.1	203.8
120°	228.3	228.7	228.3	227.5	226.7	225.9	225.1	225.1	225.1	225.1	225.1
122.5°	248.7	249.2	248.9	248.4	247.9	247.4	246.9	246.6	246.3	246.0	245.7
125°	268.8	269.3	269.1	268.8	268.5	268.2	267.9	267.6	267.3	267.0	266.7
127.5°	289.6	290.2	290.0	289.6	289.2	288.8	288.4	288.0	287.6	287.2	286.8
130°	309.1	309.8	309.7	309.5	309.3	309.1	308.9	308.7	308.5	308.3	308.1
132.5°	328.9	329.4	329.5	329.6	329.7	329.8	329.9	329.4	328.9	328.4	327.9
135°	347.5	348.1	348.2	348.4	348.6	348.8	349.0	348.9	348.8	348.7	348.6
137.5°	366.7	367.2	367.3	367.5	367.7	367.9	368.1	368.0	367.9	367.8	367.7
140°	384.5	385.0	385.3	385.8	386.3	386.8	387.3	387.3	387.3	387.3	387.3
142.5°	402.7	403.2	403.4	403.7	404.0	404.3	404.6	404.7	404.8	404.9	405.0
145°	419.2	419.6	419.9	420.5	421.2	421.8	422.4	422.5	422.6	422.7	422.8
147.5°	435.5	436.0	436.2	436.6	437.0	437.4	437.8	438.0	438.2	438.5	438.7
150°	450.3	450.6	450.8	451.2	451.6	452.0	452.4	452.7	453.0	453.3	453.6
152.5°	464.4	464.7	465.0	465.5	466.0	466.5	467.0	467.4	467.8	468.2	468.6
155°	477.3	477.5	477.6	477.9	478.2	478.5	478.8	479.3	479.8	480.3	480.8
157.5°	489.2	489.3	489.4	489.6	489.8	490.0	490.2	490.9	491.6	492.3	493.0
160°	500.2	500.3	500.3	500.4	500.5	500.6	500.7	501.3	501.9	502.6	503.2
162.5°	509.4	509.4	509.4	509.5	509.6	509.7	509.8	510.5	511.2	511.9	512.6
165°	517.6	517.6	517.6	517.6	517.6	517.6	517.6	518.3	519.0	519.7	520.4
167.5°	524.6	524.4	524.4	524.4	524.4	524.4	524.4	525.1	525.8	526.5	527.2
170°	530.5	530.3	530.3	530.2	530.1	530.0	529.9	530.6	531.3	532.0	532.7
172.5°	534.6	534.4	534.4	534.3	534.2	534.1	534.0	534.7	535.4	536.1	536.8
175°	537.8	537.6	537.5	537.3	537.1	536.9	536.7	537.4	538.1	538.8	539.5
177.5°	539.6	539.4	539.3	539.1	538.9	538.7	538.5	539.1	539.7	540.4	541.0
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	917.1	919.3	914.2	912.7	914.2	909.0	910.5	911.9	911.9	914.2	915.6
5°	863.9	860.9	855.7	854.3	852.8	855.0	853.5	855.7	856.5	861.7	862.4
7.5°	811.4	806.9	802.5	798.0	796.6	792.9	796.6	796.6	801.7	800.3	804.0
10°	749.2	748.5	742.6	740.4	737.4	731.5	739.6	737.4	741.1	747.8	749.2
12.5°	703.4	695.2	698.9	688.6	692.3	686.4	687.1	687.1	693.0	693.8	692.3
15°	659.7	653.1	643.5	639.0	636.8	633.9	643.5	644.2	639.8	650.1	646.4
17.5°	615.4	615.4	606.5	604.3	598.4	601.3	599.8	600.6	599.1	606.5	610.2
20°	576.9	573.2	570.2	571.0	563.6	562.1	560.6	562.1	567.3	572.5	573.9
22.5°	545.8	543.6	536.2	537.7	531.8	534.0	532.5	536.2	537.0	537.0	542.1
25°	516.3	513.3	514.0	511.1	508.9	508.9	506.6	508.9	511.8	513.3	514.0
27.5°	494.1	491.8	488.1	485.9	487.4	483.7	486.7	488.9	488.9	487.4	488.9
30°	467.4	468.9	468.9	461.5	464.5	463.0	465.2	466.7	466.7	467.4	466.0
32.5°	449.7	445.2	444.5	443.8	443.8	440.8	440.8	443.0	443.8	444.5	446.7
35°	426.0	426.0	422.3	424.5	421.6	422.3	421.6	422.3	423.8	421.6	423.8
37.5°	404.6	405.3	403.8	405.3	406.1	404.6	403.1	406.1	404.6	404.6	403.1
40°	386.1	385.3	386.1	386.1	386.1	386.8	385.3	385.3	385.3	383.9	382.4
42.5°	370.5	366.1	367.6	368.3	366.1	366.1	366.9	366.1	368.3	363.9	363.9
45°	348.4	346.9	347.6	347.6	349.1	346.9	348.4	349.1	346.9	346.1	344.7
47.5°	328.4	329.9	328.4	329.9	329.9	331.3	328.4	329.1	329.9	326.9	324.7
50°	308.4	308.4	310.6	309.9	310.6	309.2	309.2	308.4	309.2	307.7	305.5
52.5°	289.9	287.7	291.4	290.7	289.9	289.2	288.5	289.2	287.7	286.2	286.2
55°	267.0	267.0	269.2	270.0	270.0	268.5	267.0	267.7	267.0	266.3	265.5
57.5°	248.5	245.6	247.0	247.8	247.8	245.6	247.0	245.6	245.6	246.3	244.1
60°	224.8	224.8	223.4	225.6	225.6	224.1	224.1	224.8	223.4	222.6	221.9
62.5°	199.7	200.4	202.7	203.4	204.1	202.7	201.2	201.9	201.9	199.7	200.4
65°	178.2	179.7	182.7	181.9	180.5	181.2	179.7	180.5	178.2	179.0	176.8
67.5°	157.5	156.8	157.5	157.5	159.0	158.3	156.8	156.8	156.1	158.3	156.1
70°	135.4	135.4	135.4	135.4	136.1	136.8	135.4	133.9	134.6	133.1	132.4
72.5°	112.4	113.2	112.4	113.9	111.7	113.2	113.2	112.4	111.7	111.7	111.7
75°	91.0	92.5	90.2	91.0	90.2	91.7	91.0	91.0	89.5	88.8	89.5
77.5°	69.5	70.3	68.8	69.5	68.8	69.5	69.5	68.8	68.8	68.8	68.8
80°	49.6	50.3	49.6	48.8	48.1	49.6	48.1	48.8	49.6	48.8	50.3
82.5°	31.8	31.8	31.1	31.8	30.3	30.3	31.1	31.1	30.3	31.8	30.3
85°	15.5	15.5	17.0	15.5	14.8	14.8	14.8	15.5	14.8	16.3	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	15.1	15.2	15.3	15.4	15.5	15.4	15.3	15.2	15.1	15.0
92.5°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
95°	29.2	29.1	28.9	28.6	28.4	28.2	28.4	28.6	28.9	29.1	29.2
97.5°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
100°	62.9	62.8	62.7	62.6	62.5	62.4	62.5	62.6	62.7	62.8	62.9
102.5°	82.0	82.0	81.9	81.8	81.7	81.6	81.7	81.8	81.9	82.0	82.0
105°	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
107.5°	121.2	120.9	120.4	119.9	119.4	118.9	119.4	119.9	120.4	120.9	121.2
110°	141.7	141.5	141.2	140.9	140.6	140.3	140.6	140.9	141.2	141.5	141.7

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	161.7	161.6	161.4	161.2	161.0	160.8	161.0	161.2	161.4	161.6	161.7
115°	183.6	183.4	183.1	182.8	182.5	182.2	182.5	182.8	183.1	183.4	183.6
117.5°	203.7	203.5	203.2	202.9	202.6	202.3	202.6	202.9	203.2	203.5	203.7
120°	225.1	224.9	224.6	224.3	224.0	223.7	224.0	224.3	224.6	224.9	225.1
122.5°	245.6	245.5	245.3	245.1	244.9	244.7	244.9	245.1	245.3	245.5	245.6
125°	266.5	266.5	266.4	266.3	266.2	266.1	266.2	266.3	266.4	266.5	266.5
127.5°	286.6	286.4	286.1	285.8	285.5	285.2	285.5	285.8	286.1	286.4	286.6
130°	308.0	307.8	307.4	307.0	306.6	306.2	306.6	307.0	307.4	307.8	308.0
132.5°	327.6	327.4	327.1	326.8	326.5	326.2	326.5	326.8	327.1	327.4	327.6
135°	348.5	348.4	348.1	347.8	347.5	347.2	347.5	347.8	348.1	348.4	348.5
137.5°	367.7	367.5	367.1	366.7	366.3	365.9	366.3	366.7	367.1	367.5	367.7
140°	387.3	387.1	386.7	386.2	385.8	385.4	385.8	386.2	386.7	387.1	387.3
142.5°	405.0	404.8	404.4	404.0	403.6	403.2	403.6	404.0	404.4	404.8	405.0
145°	422.8	422.6	422.2	421.8	421.4	421.0	421.4	421.8	422.2	422.6	422.8
147.5°	438.8	438.6	438.2	437.7	437.3	436.9	437.3	437.7	438.2	438.6	438.8
150°	453.8	453.6	453.3	453.0	452.7	452.4	452.7	453.0	453.3	453.6	453.8
152.5°	468.8	468.6	468.2	467.8	467.4	467.0	467.4	467.8	468.2	468.6	468.8
155°	481.1	481.0	480.7	480.4	480.1	479.8	480.1	480.4	480.7	481.0	481.1
157.5°	493.4	493.2	492.7	492.2	491.7	491.2	491.7	492.2	492.7	493.2	493.4
160°	503.5	503.3	502.9	502.4	502.0	501.6	502.0	502.4	502.9	503.3	503.5
162.5°	513.0	512.7	512.2	511.7	511.2	510.7	511.2	511.7	512.2	512.7	513.0
165°	520.8	520.5	520.0	519.5	519.0	518.5	519.0	519.5	520.0	520.5	520.8
167.5°	527.6	527.3	526.8	526.3	525.8	525.3	525.8	526.3	526.8	527.3	527.6
170°	533.1	532.8	532.2	531.5	530.9	530.3	530.9	531.5	532.2	532.8	533.1
172.5°	537.2	536.9	536.3	535.6	535.0	534.4	535.0	535.6	536.3	536.9	537.2
175°	539.9	539.6	539.0	538.4	537.8	537.2	537.8	538.4	539.0	539.6	539.9
177.5°	541.3	541.0	540.4	539.7	539.1	538.5	539.1	539.7	540.4	541.0	541.3
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2	962.2
2.5°	913.4	919.3	917.1	909.0	918.6	918.6	925.3	925.3	933.4	936.4	940.8
5°	861.7	866.1	869.8	866.1	872.7	883.1	889.0	894.2	905.3	909.7	916.4
7.5°	806.2	814.3	818.0	818.0	829.1	840.9	852.8	860.2	875.7	881.6	888.3
10°	752.2	761.8	769.2	768.5	787.0	794.3	809.1	826.2	841.7	850.6	860.2
12.5°	695.2	700.4	710.8	725.6	730.0	743.3	760.3	781.8	809.9	818.0	832.1
15°	647.9	662.0	670.1	676.8	687.1	699.7	718.2	738.9	767.0	784.7	799.5
17.5°	608.0	626.5	631.6	630.2	643.5	662.7	684.1	699.7	724.8	746.3	760.3
20°	575.4	582.8	591.7	595.4	605.7	626.5	647.2	664.9	685.6	702.6	718.9
22.5°	542.9	548.8	556.2	562.8	571.0	582.8	602.8	625.0	644.9	661.2	679.7
25°	516.3	520.0	526.6	531.8	540.7	548.8	562.8	587.3	610.9	620.5	636.8
27.5°	490.4	493.3	497.8	503.7	508.1	516.3	528.8	548.8	573.2	582.8	605.0
30°	467.4	469.7	474.1	477.1	479.3	488.9	498.5	514.0	532.5	545.8	562.1
32.5°	446.0	448.2	452.6	453.4	456.3	461.5	470.4	484.4	500.7	511.8	525.9
35°	422.3	423.8	428.2	429.7	431.9	436.4	443.0	453.4	468.2	476.3	488.9
37.5°	403.8	403.1	406.1	408.3	411.2	413.4	415.7	426.0	437.1	444.5	454.1
40°	383.9	382.4	383.1	386.1	387.6	390.5	390.5	400.9	408.3	414.2	421.6
42.5°	363.9	363.2	361.7	363.2	364.6	365.4	366.1	373.5	380.9	386.1	394.2
45°	343.9	343.2	341.7	342.4	342.4	343.9	346.1	349.1	354.3	358.7	363.2
47.5°	325.4	324.0	321.7	321.0	322.5	322.5	322.5	325.4	330.6	332.1	336.5
50°	306.2	304.0	301.0	299.5	299.5	298.8	300.3	301.0	305.5	306.9	310.6
52.5°	285.5	284.0	281.1	278.1	278.8	277.4	278.1	278.8	280.3	282.5	284.8
55°	264.8	261.8	259.6	258.9	256.6	256.6	254.4	257.4	256.6	257.4	260.3
57.5°	244.8	241.9	238.2	236.7	234.5	233.7	232.2	231.5	232.2	234.5	236.7
60°	221.1	219.7	217.4	215.2	213.7	211.5	210.1	210.1	209.3	209.3	210.1
62.5°	198.2	197.5	194.5	193.8	192.3	190.8	188.6	187.1	187.1	188.6	189.3
65°	176.0	175.3	173.1	172.3	168.6	167.2	166.4	165.7	164.2	164.2	164.2
67.5°	155.3	153.1	153.1	149.4	146.4	145.0	143.5	142.7	142.7	142.7	143.5
70°	132.4	132.4	130.2	128.0	125.0	125.7	123.5	121.3	121.3	119.8	120.6
72.5°	110.2	109.5	107.2	106.5	104.3	102.1	100.6	102.1	99.8	99.1	99.8
75°	88.8	88.0	86.5	85.1	85.8	83.6	81.4	80.6	80.6	79.1	79.1
77.5°	68.0	69.5	66.6	65.8	64.3	62.9	62.1	61.4	61.4	61.4	62.9
80°	47.3	48.1	48.1	46.6	47.3	45.1	45.1	45.1	42.9	43.6	44.4
82.5°	30.3	30.3	29.6	30.3	29.6	29.6	28.8	28.8	28.1	28.1	28.8
85°	17.0	16.3	15.5	17.0	16.3	16.3	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	13.7	13.3
95°	29.2	29.2	29.2	29.2	29.2	29.0	28.8	28.5	28.3	28.2	27.7
97.5°	45.6	45.6	45.6	45.6	45.6	45.2	44.8	44.3	43.9	43.7	43.2
100°	62.9	62.9	62.9	62.9	62.9	62.6	62.3	62.0	61.7	61.5	61.1
102.5°	82.0	81.9	81.8	81.7	81.6	81.2	80.8	80.3	79.9	79.7	79.4
105°	101.0	100.8	100.6	100.4	100.2	100.0	99.8	99.6	99.4	99.3	99.2
107.5°	121.1	121.0	120.9	120.8	120.7	120.7	120.7	120.7	120.7	120.7	120.5
110°	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.7	141.4

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	161.9	162.2	162.5	162.8	163.1	163.2	163.3	163.4	163.5	163.6	163.3
115°	183.7	183.8	183.9	184.0	184.1	184.3	184.5	184.7	184.9	185.0	184.7
117.5°	203.8	204.1	204.4	204.7	205.0	205.5	206.0	206.5	207.0	207.3	206.9
120°	225.1	225.1	225.1	225.1	225.1	225.9	226.7	227.5	228.3	228.7	228.3
122.5°	245.7	246.0	246.3	246.6	246.9	247.4	247.9	248.4	248.9	249.2	248.7
125°	266.7	267.0	267.3	267.6	267.9	268.2	268.5	268.8	269.1	269.3	268.8
127.5°	286.8	287.2	287.6	288.0	288.4	288.8	289.2	289.6	290.0	290.2	289.6
130°	308.1	308.3	308.5	308.7	308.9	309.1	309.3	309.5	309.7	309.8	309.1
132.5°	327.9	328.4	328.9	329.4	329.9	329.8	329.7	329.6	329.5	329.4	328.9
135°	348.6	348.7	348.8	348.9	349.0	348.8	348.6	348.4	348.2	348.1	347.5
137.5°	367.7	367.8	367.9	368.0	368.1	367.9	367.7	367.5	367.3	367.2	366.7
140°	387.3	387.3	387.3	387.3	387.3	386.8	386.3	385.8	385.3	385.0	384.5
142.5°	405.0	404.9	404.8	404.7	404.6	404.3	404.0	403.7	403.4	403.2	402.7
145°	422.8	422.7	422.6	422.5	422.4	421.8	421.2	420.5	419.9	419.6	419.2
147.5°	438.7	438.5	438.2	438.0	437.8	437.4	437.0	436.6	436.2	436.0	435.5
150°	453.6	453.3	453.0	452.7	452.4	452.0	451.6	451.2	450.8	450.6	450.3
152.5°	468.6	468.2	467.8	467.4	467.0	466.5	466.0	465.5	465.0	464.7	464.4
155°	480.8	480.3	479.8	479.3	478.8	478.5	478.2	477.9	477.6	477.5	477.3
157.5°	493.0	492.3	491.6	490.9	490.2	490.0	489.8	489.6	489.4	489.3	489.2
160°	503.2	502.6	501.9	501.3	500.7	500.6	500.5	500.4	500.3	500.3	500.2
162.5°	512.6	511.9	511.2	510.5	509.8	509.7	509.6	509.5	509.4	509.4	509.4
165°	520.4	519.7	519.0	518.3	517.6	517.6	517.6	517.6	517.6	517.6	517.6
167.5°	527.2	526.5	525.8	525.1	524.4	524.4	524.4	524.4	524.4	524.4	524.6
170°	532.7	532.0	531.3	530.6	529.9	530.0	530.1	530.2	530.3	530.3	530.5
172.5°	536.8	536.1	535.4	534.7	534.0	534.1	534.2	534.3	534.4	534.4	534.6
175°	539.5	538.8	538.1	537.4	536.7	536.9	537.1	537.3	537.5	537.6	537.8
177.5°	541.0	540.4	539.7	539.1	538.5	538.7	538.9	539.1	539.3	539.4	539.6
180°	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9	539.9

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	962.2	962.2	962.2	962.2
2.5°	944.5	944.5	955.6	967.4
5°	923.8	929.0	946.7	963.0
7.5°	903.8	912.7	934.9	955.6
10°	879.4	891.2	918.6	943.0
12.5°	855.7	866.8	898.6	926.0
15°	822.5	836.5	870.5	904.6
17.5°	789.2	803.2	844.6	884.6
20°	750.0	768.5	815.1	868.3
22.5°	713.7	736.7	788.4	831.3
25°	673.8	709.3	757.4	812.8
27.5°	638.3	673.8	722.6	778.8
30°	598.4	634.6	684.9	736.7
32.5°	559.9	593.2	642.0	705.6
35°	520.0	551.8	599.1	663.4
37.5°	483.7	514.8	566.5	625.7
40°	448.2	480.8	525.1	584.3
42.5°	414.9	443.8	483.7	542.9
45°	384.6	405.3	442.3	497.8
47.5°	352.8	371.3	405.3	460.8
50°	323.2	338.7	368.3	420.1
52.5°	294.4	307.7	335.0	376.5
55°	268.5	281.1	301.0	341.7
57.5°	241.9	251.5	270.7	303.2
60°	216.0	224.8	240.4	267.0
62.5°	190.1	197.5	212.3	233.7
65°	167.2	173.1	184.2	202.7
67.5°	145.0	148.7	157.5	172.3
70°	123.5	126.5	133.9	145.7
72.5°	100.6	103.5	111.7	119.8
75°	81.4	82.1	88.0	94.7
77.5°	63.6	62.9	67.3	72.5
80°	43.6	45.9	49.6	51.8
82.5°	29.6	30.3	31.8	33.3
85°	16.3	17.0	17.0	19.2
87.5°	6.7	7.4	7.4	8.1
90°	4.1	2.9	1.7	0.5
92.5°	12.5	11.6	10.8	10.0
95°	26.7	25.7	24.7	23.7
97.5°	42.3	41.4	40.5	39.6
100°	60.3	59.5	58.7	57.9
102.5°	78.8	78.2	77.6	77.0
105°	98.9	98.6	98.3	98.0
107.5°	120.1	119.7	119.3	118.9
110°	140.8	140.2	139.6	139.0

TEST NUMBER: P1029511

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A1_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	162.7	162.0	161.4	160.8
115°	184.1	183.4	182.8	182.2
117.5°	206.1	205.3	204.5	203.7
120°	227.5	226.7	225.9	225.1
122.5°	247.7	246.7	245.7	244.7
125°	267.9	267.0	266.1	265.2
127.5°	288.5	287.4	286.3	285.2
130°	307.8	306.5	305.2	303.9
132.5°	327.9	326.9	325.9	324.9
135°	346.4	345.3	344.2	343.1
137.5°	365.8	364.9	364.0	363.1
140°	383.6	382.7	381.8	380.9
142.5°	401.8	400.9	400.0	399.1
145°	418.5	417.8	417.1	416.4
147.5°	434.6	433.7	432.8	431.9
150°	449.7	449.1	448.5	447.9
152.5°	463.8	463.2	462.6	462.0
155°	477.0	476.7	476.4	476.1
157.5°	489.0	488.8	488.6	488.4
160°	500.0	499.8	499.6	499.4
162.5°	509.4	509.4	509.4	509.4
165°	517.7	517.8	517.9	518.0
167.5°	524.9	525.2	525.5	525.8
170°	530.8	531.1	531.4	531.7
172.5°	534.9	535.2	535.5	535.8
175°	538.1	538.4	538.7	539.0
177.5°	539.9	540.2	540.5	540.8
180°	539.9	539.9	539.9	539.9

(END OF REPORT)