

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: P1029427

Luminaire Tested: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029427
REPORT IS A COMBINATION OF REPORTS P985848 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

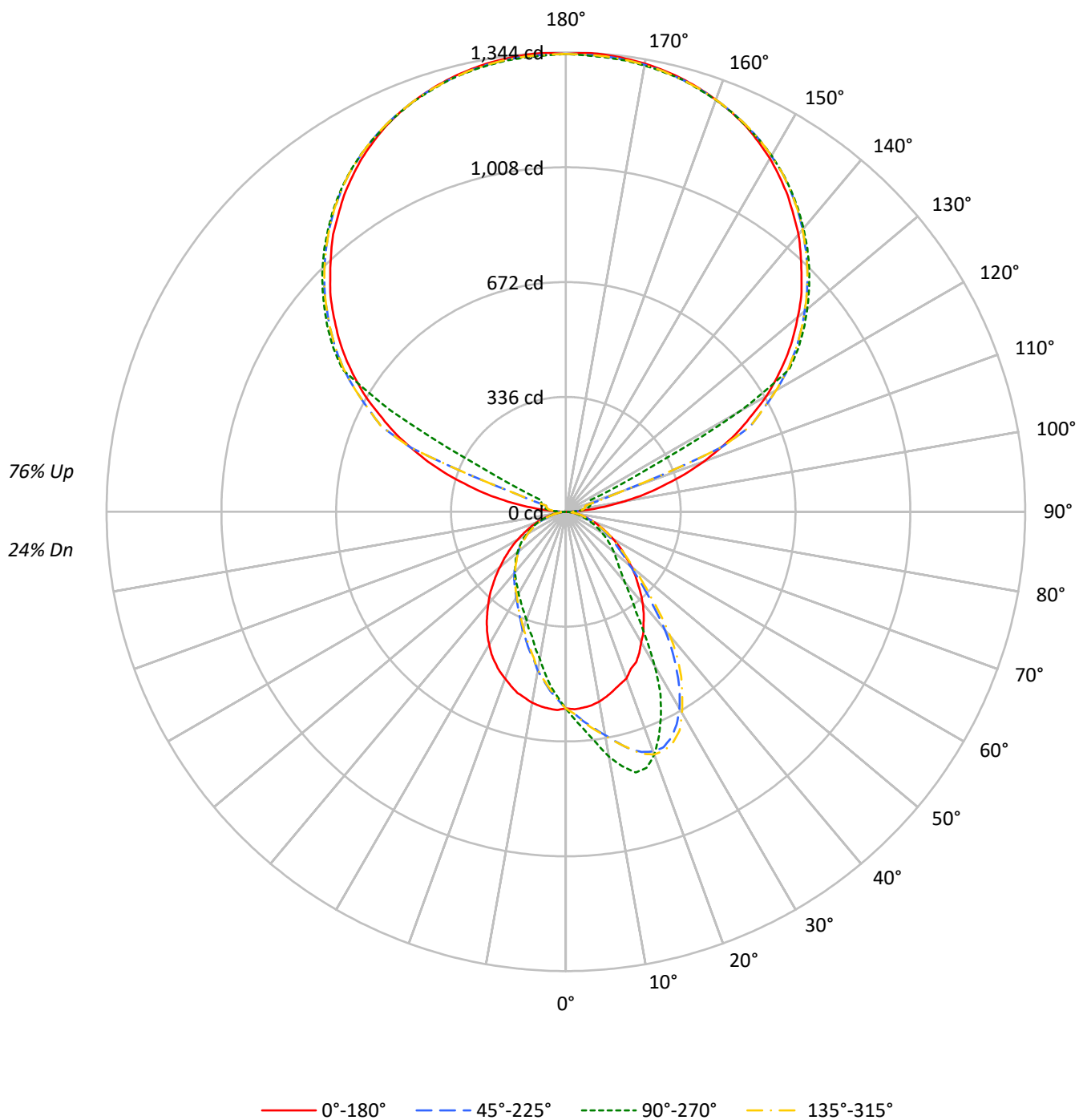
Lumens per Lamp: N/A
Luminaire Lumens: 5198.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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



TEST NUMBER: P1029427

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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	101	101	101	101		90	90	90	90		69	69	69		50	50	50		33	33	33
1	92	88	85	81		82	79	76	73		61	59	57		44	43	42		29	29	28
2	84	77	72	67		75	69	64	60		53	50	47		39	37	35		26	25	24
3	77	68	61	56		68	61	55	50		47	43	40		35	32	30		23	22	21
4	70	60	53	47		62	54	48	43		42	38	34		31	28	26		21	19	18
5	65	54	46	40		57	48	42	37		38	33	30		28	25	23		19	17	16
6	59	48	40	35		53	43	37	32		34	29	26		25	22	20		17	15	14
7	55	43	36	30		49	39	32	28		31	26	23		23	20	17		16	14	12
8	51	39	32	27		45	35	29	25		28	23	20		21	18	16		14	13	11
9	47	36	29	24		42	32	26	22		26	21	18		19	16	14		13	11	10
10	44	33	26	21		39	29	23	19		23	19	16		18	15	13		12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9105	9105	9105	9105
5°	9126	9708	9161	7724
10°	9021	10597	9077	6367
15°	8802	11178	8924	5364
20°	8664	10495	8664	4662
25°	8389	9016	8427	4169
30°	7933	7088	8085	3777
35°	7532	4901	7657	3455
40°	7070	3701	7148	3199
45°	6497	3040	6604	2922
50°	6005	2670	6017	2675
55°	5441	2274	5478	2407
60°	4843	1899	4910	2101
65°	4305	1545	4383	1794
70°	3772	1212	3867	1447
75°	3166	880	3289	1049
80°	2467	557	2651	622
85°	1624	280	1752	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	159.5	3.1
20°-30°	231.4	4.5
30°-40°	244.0	4.7
40°-50°	215.9	4.2
50°-60°	172.4	3.3
60°-70°	117.1	2.3
70°-80°	59.9	1.2
80°-90°	16.5	0.3
90°-100°	44.2	0.8
100°-110°	164.6	3.2
110°-120°	436.7	8.4
120°-130°	724.2	13.9
130°-140°	769.3	14.8
140°-150°	715.0	13.8
150°-160°	574.8	11.1
160°-170°	370.4	7.1
170°-180°	127.5	2.5
0°-30°	445.7	8.6
0°-40°	689.6	13.3
0°-60°	1077.9	20.7
0°-90°	1271.4	24.5
90°-120°	645.5	12.4
90°-150°	2854.0	54.9
90°-180°	3927.0	75.5
0°-180°	5198.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	576	642	578	511	576	55
15°	541	790	548	379	541	153
25°	486	658	488	304	486	222
35°	397	358	403	252	397	248
45°	298	216	302	207	298	231
55°	204	152	206	160	204	182
65°	121	93	123	108	121	120
75°	57	46	59	55	57	61
85°	12	12	12	9	12	13
90°	1	26	1	26	1	4
95°	63	42	63	42	63	75
105°	295	74	295	74	295	315
115°	557	80	557	80	557	549
125°	788	829	788	829	788	703
135°	975	1007	975	1007	975	753
145°	1131	1148	1131	1148	1131	707
155°	1245	1246	1245	1246	1245	574
165°	1312	1309	1312	1309	1312	371
175°	1342	1335	1342	1335	1342	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.3	579.6	581.8	582.2	586.7	590.2	594.2	594.2	595.5	595.1	591.5
5°	575.6	579.6	585.3	590.2	598.2	601.7	607.0	611.0	614.5	617.2	616.7
7.5°	571.2	578.3	586.7	595.9	606.6	612.7	620.3	627.3	632.2	636.6	639.7
10°	563.7	575.6	587.1	599.5	613.2	621.6	630.4	639.7	647.2	655.6	663.6
12.5°	553.5	570.7	584.9	601.3	618.1	627.3	641.5	648.6	663.1	684.4	690.1
15°	540.7	564.1	577.4	598.2	620.3	627.8	647.2	658.7	688.8	702.1	718.0
17.5°	528.7	554.8	572.5	596.4	618.1	632.6	651.7	675.1	700.3	719.3	737.0
20°	519.0	544.2	565.4	592.0	619.4	637.9	657.8	686.1	713.5	733.0	746.7
22.5°	496.9	529.2	553.9	583.6	616.7	642.4	661.4	692.3	721.9	733.9	745.8
25°	485.9	513.7	542.5	576.1	615.0	645.5	661.8	696.3	722.4	726.8	729.5
27.5°	465.5	496.9	530.5	569.0	614.5	640.2	660.9	692.3	713.1	710.0	702.1
30°	440.3	478.8	515.9	557.5	608.3	636.2	655.6	684.4	695.0	679.1	664.9
32.5°	421.8	458.0	499.1	547.3	601.3	627.8	646.8	669.3	671.5	642.8	618.9
35°	396.6	436.8	483.2	534.1	589.3	613.2	630.9	644.6	634.0	593.7	565.4
37.5°	374.0	413.8	463.3	515.0	573.0	596.4	610.5	612.7	586.7	551.3	509.7
40°	349.3	390.4	442.1	496.5	554.8	575.2	584.0	577.4	539.8	498.7	450.5
42.5°	324.5	365.2	420.9	476.6	531.8	549.1	552.6	534.5	488.5	440.3	384.6
45°	297.5	340.0	395.7	451.8	505.3	515.0	515.5	489.4	435.0	384.6	332.9
47.5°	275.4	314.8	370.0	426.2	471.3	477.9	475.3	445.2	386.0	329.4	284.3
50°	251.1	288.7	343.5	398.8	437.2	439.0	432.4	389.5	331.6	279.8	244.0
52.5°	225.0	263.0	313.4	366.5	401.0	398.3	385.5	339.5	285.2	242.3	214.9
55°	204.2	237.8	285.2	336.9	361.2	353.7	339.5	292.7	249.8	213.5	189.7
57.5°	181.3	210.9	257.3	302.4	316.5	309.5	295.3	251.6	211.8	184.4	168.4
60°	159.6	186.6	227.2	264.8	275.9	268.4	252.0	212.6	183.9	160.9	149.0
62.5°	139.7	163.1	197.2	231.7	236.1	228.6	214.4	182.6	157.8	139.7	130.9
65°	121.1	143.2	170.6	196.7	200.7	192.8	178.2	155.2	134.4	122.9	114.5
67.5°	103.0	120.7	145.0	164.0	166.2	158.7	146.8	128.2	115.4	103.0	96.8
70°	87.1	100.4	119.4	134.8	135.7	128.7	122.5	105.7	95.9	87.1	82.2
72.5°	71.6	80.9	95.5	107.0	107.4	103.0	97.3	86.7	78.3	72.1	67.2
75°	56.6	64.5	73.4	83.6	83.1	79.6	75.2	68.5	61.5	57.5	55.3
77.5°	43.3	48.2	55.3	61.9	61.9	60.1	57.5	52.6	48.2	44.2	42.0
80°	30.9	34.0	39.8	42.0	42.9	42.4	40.2	36.7	34.9	31.8	30.9
82.5°	19.9	22.1	24.8	27.0	28.3	27.4	27.0	25.2	22.5	21.7	20.8
85°	11.5	12.4	13.7	15.0	15.5	15.0	15.9	14.6	13.3	13.3	12.8
87.5°	4.9	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.0	3.4	5.7	8.1	10.4	11.6	12.5	14.2	15.9	17.7	19.4
92.5°	24.2	23.4	22.5	21.7	20.8	20.4	20.7	21.4	22.0	22.7	23.3
95°	63.0	55.9	48.8	41.7	34.6	31.0	31.8	33.3	34.8	36.3	37.8
97.5°	113.4	95.7	78.1	60.4	42.7	33.9	35.6	39.1	42.5	46.0	49.4
100°	171.5	142.0	112.5	83.0	53.5	38.8	40.6	44.3	47.9	51.6	55.2
102.5°	235.5	235.1	234.7	234.2	233.8	233.6	214.0	174.8	135.6	96.4	57.2
105°	294.6	301.1	307.5	314.0	320.5	323.7	294.3	235.5	176.7	117.9	59.1
107.5°	363.4	368.8	374.2	379.6	385.0	387.7	351.4	278.8	206.3	133.7	61.1
110°	429.3	433.8	438.4	442.9	447.4	449.7	418.6	356.3	294.1	231.8	169.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	491.4	495.3	499.1	503.0	506.9	508.8	507.0	503.3	499.6	496.0	492.3
115°	557.3	561.0	564.6	568.3	572.0	573.8	576.5	581.9	587.2	592.6	598.0
117.5°	614.5	618.8	623.1	627.4	631.7	633.8	635.6	639.3	643.0	646.6	650.3
120°	678.4	681.6	684.9	688.1	691.4	693.0	694.9	698.8	702.7	706.5	710.4
122.5°	732.7	736.1	739.6	743.0	746.5	748.2	750.4	754.7	759.0	763.3	767.6
125°	787.9	790.7	793.5	796.3	799.1	800.5	802.6	806.7	810.8	814.9	819.0
127.5°	838.3	841.3	844.3	847.4	850.4	851.9	853.5	856.7	860.0	863.2	866.4
130°	885.8	889.2	892.7	896.1	899.6	901.3	902.5	904.9	907.2	909.6	912.0
132.5°	934.3	937.1	939.9	942.7	945.5	946.9	948.1	950.4	952.8	955.1	957.5
135°	975.0	978.4	981.9	985.3	988.8	990.5	991.5	993.4	995.3	997.3	999.2
137.5°	1017.6	1020.2	1022.8	1025.4	1028.0	1029.3	1030.4	1032.5	1034.7	1036.8	1039.0
140°	1059.3	1061.0	1062.8	1064.5	1066.2	1067.1	1068.3	1070.6	1073.0	1075.3	1077.7
142.5°	1094.2	1095.7	1097.2	1098.7	1100.2	1101.0	1102.4	1105.2	1108.0	1110.8	1113.6
145°	1131.0	1130.8	1130.6	1130.4	1130.2	1130.1	1131.9	1135.6	1139.2	1142.9	1146.5
147.5°	1163.0	1162.4	1161.7	1161.1	1160.4	1160.1	1161.9	1165.6	1169.3	1172.9	1176.6
150°	1194.0	1192.5	1191.0	1189.5	1188.0	1187.2	1188.9	1192.4	1195.8	1199.3	1202.7
152.5°	1220.2	1218.5	1216.7	1215.0	1213.3	1212.4	1214.0	1217.3	1220.5	1223.8	1227.0
155°	1245.4	1243.5	1241.5	1239.6	1237.7	1236.7	1238.0	1240.6	1243.1	1245.7	1248.3
157.5°	1265.7	1264.0	1262.3	1260.6	1258.9	1258.0	1259.0	1260.9	1262.8	1264.8	1266.7
160°	1283.2	1281.9	1280.6	1279.3	1278.0	1277.4	1278.0	1279.3	1280.6	1281.9	1283.2
162.5°	1298.7	1297.4	1296.1	1294.8	1293.5	1292.9	1293.4	1294.5	1295.6	1296.6	1297.7
165°	1312.3	1311.0	1309.7	1308.4	1307.1	1306.4	1306.7	1307.4	1308.1	1308.7	1309.4
167.5°	1322.9	1321.6	1320.3	1319.0	1317.7	1317.1	1317.4	1318.1	1318.7	1319.4	1320.0
170°	1331.6	1330.3	1329.0	1327.7	1326.4	1325.8	1326.0	1326.5	1326.9	1327.4	1327.8
172.5°	1337.5	1336.2	1334.9	1333.6	1332.3	1331.6	1331.8	1332.3	1332.7	1333.2	1333.6
175°	1342.3	1340.8	1339.3	1337.8	1336.3	1335.5	1335.7	1336.2	1336.6	1337.1	1337.5
177.5°	1344.2	1342.7	1341.2	1339.7	1338.2	1337.5	1337.6	1337.8	1338.0	1338.2	1338.4
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	597.7	598.2	599.0	603.5	605.7	606.1	604.3	608.3	609.7	608.3	607.4
5°	626.0	628.7	634.0	639.7	639.3	639.7	642.4	645.0	645.9	642.4	643.7
7.5°	650.8	656.1	661.8	670.7	670.7	675.1	676.9	679.1	684.4	681.7	680.8
10°	679.1	686.1	696.7	710.9	711.3	715.8	720.2	727.3	729.5	727.7	728.6
12.5°	714.4	728.1	729.0	744.5	751.6	752.5	759.5	758.2	762.6	762.6	770.1
15°	729.9	751.1	763.1	778.1	782.5	777.2	783.0	789.1	789.6	789.6	789.1
17.5°	757.8	766.2	778.1	786.1	787.8	787.8	788.3	790.9	789.1	785.6	788.3
20°	763.5	767.0	771.5	770.6	771.5	767.0	762.6	758.2	758.6	756.4	763.1
22.5°	752.9	752.0	741.8	735.2	735.2	726.4	718.0	714.0	710.0	711.3	713.5
25°	726.4	712.7	700.3	690.6	688.3	674.2	662.7	659.2	652.5	657.8	658.7
27.5°	683.9	668.5	648.6	640.2	628.7	622.9	615.0	604.3	590.6	598.6	597.3
30°	638.4	615.4	599.0	578.7	560.6	559.3	544.2	526.5	519.5	519.5	523.4
32.5°	587.5	557.0	533.2	504.4	486.8	479.2	461.1	443.4	447.4	434.1	439.0
35°	528.3	488.1	458.0	430.2	416.9	408.1	384.6	374.9	364.3	358.1	369.6
37.5°	471.7	425.3	386.8	356.3	351.5	335.6	319.6	313.4	307.3	309.9	309.5
40°	402.8	361.6	327.2	303.3	294.9	287.4	276.8	269.2	265.3	267.5	267.9
42.5°	340.4	305.9	280.3	263.5	256.4	251.1	245.8	239.6	238.3	238.3	240.1
45°	292.2	263.9	246.7	233.0	229.0	225.0	221.0	218.4	217.5	215.7	217.1
47.5°	253.8	231.2	220.6	210.4	206.0	205.1	201.6	200.3	198.5	198.1	198.5
50°	221.5	207.3	197.6	191.9	188.8	187.4	185.7	183.0	182.1	184.4	183.5
52.5°	198.9	185.7	180.4	174.6	172.9	171.1	168.4	168.9	168.4	167.6	167.6
55°	176.4	168.0	162.7	158.3	157.8	156.1	153.9	153.0	152.5	151.6	153.0
57.5°	158.3	151.6	146.8	142.8	141.0	141.0	138.8	137.1	137.1	136.6	137.1
60°	140.1	133.5	130.4	126.4	125.1	124.7	123.3	122.5	121.1	121.1	121.1
62.5°	123.3	118.0	114.5	111.0	111.4	109.2	107.4	106.5	106.5	107.0	107.0
65°	107.4	103.9	99.5	96.4	95.5	95.1	94.2	93.7	92.4	93.3	93.3
67.5°	92.8	88.0	85.3	84.0	82.7	82.2	81.3	80.5	80.0	79.6	80.5
70°	78.3	74.3	72.1	71.2	69.9	69.4	69.0	67.6	68.1	68.5	69.0
72.5°	65.0	61.5	61.0	58.4	58.4	58.4	56.6	57.5	57.0	56.1	57.0
75°	51.3	49.5	48.6	47.3	47.7	47.3	46.9	45.5	45.5	46.0	46.4
77.5°	40.7	38.9	38.5	37.1	36.3	37.1	36.3	35.8	35.8	36.3	36.3
80°	30.1	29.2	27.9	27.9	27.9	27.4	27.4	27.4	27.0	26.5	27.0
82.5°	19.9	19.9	19.5	19.0	19.5	18.6	19.0	19.0	19.0	19.0	19.0
85°	12.8	12.4	12.4	11.9	11.9	11.9	12.4	11.5	11.5	11.9	11.9
87.5°	5.7	5.7	5.7	6.2	5.7	5.7	5.7	6.2	5.7	5.7	5.7
90°	20.5	21.5	22.6	23.7	24.2	24.4	24.9	25.3	25.8	26.2	25.8
92.5°	23.7	24.1	24.6	25.0	25.2	25.3	25.5	25.8	26.0	26.2	26.0
95°	38.9	39.9	41.0	42.1	42.6	42.5	42.3	42.1	41.9	41.7	41.9
97.5°	50.0	50.7	51.3	52.0	52.3	52.4	52.6	52.9	53.1	53.3	53.1
100°	56.9	58.7	60.4	62.1	63.0	63.2	63.6	64.1	64.5	64.9	64.5
102.5°	59.6	61.9	64.3	66.6	67.8	68.1	68.8	69.4	70.1	70.7	70.1
105°	61.5	63.9	66.2	68.6	69.8	70.2	71.1	72.0	72.8	73.7	72.8
107.5°	63.5	65.8	68.2	70.5	71.7	72.1	73.0	73.9	74.7	75.6	74.7
110°	148.1	126.5	105.0	83.5	72.7	73.1	74.0	74.9	75.7	76.6	75.7

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	399.5	306.7	213.8	121.0	74.6	74.9	75.6	76.2	76.9	77.5	76.9
115°	498.3	398.6	298.9	199.2	149.3	141.5	126.0	110.5	95.0	79.5	95.0
117.5°	619.5	588.7	557.9	527.1	511.7	483.5	427.1	370.6	314.2	257.8	314.2
120°	713.0	715.6	718.1	720.7	722.0	707.5	678.4	649.3	620.3	591.2	620.3
122.5°	768.9	770.2	771.5	772.8	773.4	773.5	773.7	774.0	774.2	774.4	774.2
125°	820.5	822.0	823.5	825.0	825.7	826.0	826.7	827.3	828.0	828.6	828.0
127.5°	868.6	870.7	872.9	875.0	876.1	876.2	876.4	876.7	876.9	877.1	876.9
130°	914.4	916.8	919.1	921.5	922.7	922.6	922.4	922.1	921.9	921.7	921.9
132.5°	959.5	961.4	963.4	965.3	966.3	966.2	966.0	965.7	965.5	965.3	965.5
135°	1001.4	1003.5	1005.7	1007.8	1008.9	1008.7	1008.3	1007.8	1007.4	1007.0	1007.4
137.5°	1041.1	1043.3	1045.4	1047.5	1048.6	1048.3	1047.6	1047.0	1046.3	1045.7	1046.3
140°	1079.6	1081.6	1083.5	1085.4	1086.4	1085.9	1084.8	1083.7	1082.7	1081.6	1082.7
142.5°	1115.3	1117.0	1118.7	1120.4	1121.3	1120.8	1119.7	1118.6	1117.6	1116.5	1117.6
145°	1148.0	1149.5	1151.0	1152.5	1153.3	1152.8	1151.7	1150.6	1149.6	1148.5	1149.6
147.5°	1177.7	1178.7	1179.8	1180.9	1181.4	1181.0	1180.1	1179.2	1178.4	1177.5	1178.4
150°	1204.0	1205.3	1206.6	1207.9	1208.6	1208.1	1207.0	1205.9	1204.8	1203.7	1204.8
152.5°	1228.3	1229.6	1230.9	1232.2	1232.8	1232.0	1230.5	1229.0	1227.5	1226.0	1227.5
155°	1249.6	1250.9	1252.2	1253.5	1254.1	1253.2	1251.5	1249.8	1248.1	1246.4	1248.1
157.5°	1268.2	1269.7	1271.2	1272.7	1273.5	1272.6	1270.9	1269.2	1267.4	1265.7	1267.4
160°	1284.5	1285.8	1287.1	1288.4	1289.0	1288.2	1286.7	1285.2	1283.7	1282.2	1283.7
162.5°	1299.2	1300.7	1302.2	1303.7	1304.5	1303.5	1301.6	1299.7	1297.7	1295.8	1297.7
165°	1310.9	1312.4	1313.9	1315.4	1316.1	1315.4	1313.9	1312.4	1310.9	1309.4	1310.9
167.5°	1321.5	1323.0	1324.5	1326.0	1326.8	1325.8	1323.9	1322.0	1320.0	1318.1	1320.0
170°	1329.3	1330.8	1332.3	1333.8	1334.6	1333.6	1331.7	1329.7	1327.8	1325.8	1327.8
172.5°	1335.1	1336.6	1338.1	1339.6	1340.4	1339.4	1337.5	1335.5	1333.6	1331.6	1333.6
175°	1339.0	1340.5	1342.0	1343.5	1344.2	1343.1	1341.0	1338.9	1336.7	1334.6	1336.7
177.5°	1339.9	1341.4	1342.9	1344.4	1345.2	1344.2	1342.3	1340.4	1338.4	1336.5	1338.4
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

TEST NUMBER: P1029427

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	609.7	606.6	603.9	604.3	606.6	604.8	600.4	594.6	592.4	589.8	592.4
5°	646.3	643.7	638.4	638.8	637.5	635.7	628.7	619.8	619.8	612.7	611.9
7.5°	682.6	678.6	675.1	674.2	669.3	665.8	659.6	647.2	642.4	634.0	629.1
10°	723.3	720.2	716.2	711.3	708.7	702.5	692.3	674.2	665.4	653.9	645.5
12.5°	764.4	763.9	755.1	745.4	744.9	735.2	728.1	703.8	691.9	676.4	656.5
15°	790.5	788.3	783.4	778.5	779.9	769.3	753.3	724.6	716.6	698.1	676.9
17.5°	790.0	790.0	788.7	787.8	786.5	783.4	774.6	755.5	742.7	719.3	699.4
20°	764.8	770.6	771.9	771.5	775.9	778.1	777.7	765.7	755.5	734.8	714.4
22.5°	714.4	727.7	733.4	737.0	746.3	751.1	762.6	758.2	755.5	740.1	722.8
25°	667.6	672.0	689.2	690.1	702.9	714.9	726.4	733.9	743.6	737.9	723.3
27.5°	607.0	617.2	629.5	638.8	641.5	665.8	684.8	699.0	721.1	722.8	718.0
30°	538.5	543.3	563.7	576.1	590.2	607.9	635.3	659.6	679.5	697.6	703.8
32.5°	454.9	474.8	486.8	501.8	514.2	545.5	579.1	610.5	633.5	664.0	677.3
35°	378.4	393.9	414.2	420.4	443.0	469.5	513.3	553.5	588.4	619.4	646.3
37.5°	315.2	327.6	349.3	359.0	372.2	406.3	443.0	492.9	534.9	573.0	606.6
40°	271.9	281.2	297.5	300.6	311.7	342.6	372.2	419.1	474.8	526.1	562.8
42.5°	242.3	246.7	257.7	261.7	268.8	289.6	316.1	360.3	412.0	465.1	516.8
45°	221.0	224.1	230.8	234.3	243.2	252.4	274.1	309.5	350.1	403.6	459.3
47.5°	202.0	206.0	208.7	210.9	215.7	225.9	240.1	266.1	305.0	354.1	408.1
50°	186.1	187.4	192.3	192.8	195.8	202.5	215.7	231.7	262.6	302.4	354.6
52.5°	170.2	171.5	174.6	177.7	179.0	184.4	193.2	206.5	229.4	260.8	307.3
55°	154.3	156.1	159.2	161.4	162.7	167.1	172.4	185.2	203.4	225.5	263.5
57.5°	138.4	142.4	143.2	144.6	146.8	151.6	156.5	164.0	178.2	198.5	226.4
60°	123.3	124.7	127.8	129.1	131.3	134.0	140.1	145.9	156.1	172.0	197.2
62.5°	107.9	111.0	112.3	113.6	115.4	118.5	122.5	128.7	137.5	150.3	170.2
65°	94.6	95.1	97.7	99.5	101.2	103.5	107.4	113.2	118.5	130.4	145.0
67.5°	81.8	82.7	83.6	85.3	87.5	89.7	93.3	96.4	103.0	111.0	122.5
70°	69.4	69.4	71.6	72.9	72.5	75.2	77.8	81.3	86.2	93.7	103.0
72.5°	58.4	57.9	59.7	60.1	61.0	62.8	64.5	68.1	70.7	76.5	83.6
75°	46.4	47.3	48.2	48.2	49.5	50.8	52.6	54.4	57.5	61.0	66.3
77.5°	36.7	36.7	37.6	38.0	39.3	38.9	40.7	42.4	44.7	47.7	51.7
80°	27.0	27.9	27.9	27.9	28.3	28.7	30.5	31.8	33.2	35.4	37.1
82.5°	19.0	19.0	19.9	19.9	19.9	20.8	20.8	21.2	22.1	23.4	24.8
85°	11.9	11.9	11.9	12.4	11.9	12.4	13.3	12.8	13.3	14.1	14.1
87.5°	5.7	5.7	5.7	5.7	5.7	6.2	5.7	6.2	6.6	6.6	6.6
90°	25.3	24.9	24.4	24.2	23.7	22.6	21.5	20.5	19.4	17.7	15.9
92.5°	25.8	25.5	25.3	25.2	25.0	24.6	24.1	23.7	23.3	22.7	22.0
95°	42.1	42.3	42.5	42.6	42.1	41.0	39.9	38.9	37.8	36.3	34.8
97.5°	52.9	52.6	52.4	52.3	52.0	51.3	50.7	50.0	49.4	46.0	42.5
100°	64.1	63.6	63.2	63.0	62.1	60.4	58.7	56.9	55.2	51.6	47.9
102.5°	69.4	68.8	68.1	67.8	66.6	64.3	61.9	59.6	57.2	96.4	135.6
105°	72.0	71.1	70.2	69.8	68.6	66.2	63.9	61.5	59.1	117.9	176.7
107.5°	73.9	73.0	72.1	71.7	70.5	68.2	65.8	63.5	61.1	133.7	206.3
110°	74.9	74.0	73.1	72.7	83.5	105.0	126.5	148.1	169.6	231.8	294.1

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	76.2	75.6	74.9	74.6	121.0	213.8	306.7	399.5	492.3	496.0	499.6
115°	110.5	126.0	141.5	149.3	199.2	298.9	398.6	498.3	598.0	592.6	587.2
117.5°	370.6	427.1	483.5	511.7	527.1	557.9	588.7	619.5	650.3	646.6	643.0
120°	649.3	678.4	707.5	722.0	720.7	718.1	715.6	713.0	710.4	706.5	702.7
122.5°	774.0	773.7	773.5	773.4	772.8	771.5	770.2	768.9	767.6	763.3	759.0
125°	827.3	826.7	826.0	825.7	825.0	823.5	822.0	820.5	819.0	814.9	810.8
127.5°	876.7	876.4	876.2	876.1	875.0	872.9	870.7	868.6	866.4	863.2	860.0
130°	922.1	922.4	922.6	922.7	921.5	919.1	916.8	914.4	912.0	909.6	907.2
132.5°	965.7	966.0	966.2	966.3	965.3	963.4	961.4	959.5	957.5	955.1	952.8
135°	1007.8	1008.3	1008.7	1008.9	1007.8	1005.7	1003.5	1001.4	999.2	997.3	995.3
137.5°	1047.0	1047.6	1048.3	1048.6	1047.5	1045.4	1043.3	1041.1	1039.0	1036.8	1034.7
140°	1083.7	1084.8	1085.9	1086.4	1085.4	1083.5	1081.6	1079.6	1077.7	1075.3	1073.0
142.5°	1118.6	1119.7	1120.8	1121.3	1120.4	1118.7	1117.0	1115.3	1113.6	1110.8	1108.0
145°	1150.6	1151.7	1152.8	1153.3	1152.5	1151.0	1149.5	1148.0	1146.5	1142.9	1139.2
147.5°	1179.2	1180.1	1181.0	1181.4	1180.9	1179.8	1178.7	1177.7	1176.6	1172.9	1169.3
150°	1205.9	1207.0	1208.1	1208.6	1207.9	1206.6	1205.3	1204.0	1202.7	1199.3	1195.8
152.5°	1229.0	1230.5	1232.0	1232.8	1232.2	1230.9	1229.6	1228.3	1227.0	1223.8	1220.5
155°	1249.8	1251.5	1253.2	1254.1	1253.5	1252.2	1250.9	1249.6	1248.3	1245.7	1243.1
157.5°	1269.2	1270.9	1272.6	1273.5	1272.7	1271.2	1269.7	1268.2	1266.7	1264.8	1262.8
160°	1285.2	1286.7	1288.2	1289.0	1288.4	1287.1	1285.8	1284.5	1283.2	1281.9	1280.6
162.5°	1299.7	1301.6	1303.5	1304.5	1303.7	1302.2	1300.7	1299.2	1297.7	1296.6	1295.6
165°	1312.4	1313.9	1315.4	1316.1	1315.4	1313.9	1312.4	1310.9	1309.4	1308.7	1308.1
167.5°	1322.0	1323.9	1325.8	1326.8	1326.0	1324.5	1323.0	1321.5	1320.0	1319.4	1318.7
170°	1329.7	1331.7	1333.6	1334.6	1333.8	1332.3	1330.8	1329.3	1327.8	1327.4	1326.9
172.5°	1335.5	1337.5	1339.4	1340.4	1339.6	1338.1	1336.6	1335.1	1333.6	1333.2	1332.7
175°	1338.9	1341.0	1343.1	1344.2	1343.5	1342.0	1340.5	1339.0	1337.5	1337.1	1336.6
177.5°	1340.4	1342.3	1344.2	1345.2	1344.4	1342.9	1341.4	1339.9	1338.4	1338.2	1338.0
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	590.2	588.0	586.7	587.5	584.9	578.3	578.3	580.5	577.8	575.2	571.2
5°	606.6	602.1	599.5	599.0	592.9	582.2	580.0	577.8	572.1	565.9	559.3
7.5°	622.5	614.5	610.1	607.0	598.2	584.5	578.7	573.8	564.6	555.3	546.9
10°	635.7	624.2	618.9	614.1	602.6	585.3	576.1	567.2	555.3	543.3	532.7
12.5°	646.3	633.1	626.5	619.4	605.2	582.7	571.2	557.0	545.1	529.2	518.6
15°	664.0	636.6	630.4	623.8	609.2	578.3	564.1	548.2	531.8	510.6	499.1
17.5°	678.2	641.5	641.0	626.9	607.9	576.5	554.8	534.1	516.4	495.2	477.0
20°	686.6	649.0	641.9	627.3	603.5	564.6	542.0	519.0	500.0	474.4	456.2
22.5°	693.7	659.6	641.0	623.4	594.2	560.6	527.4	505.8	479.7	451.8	434.6
25°	696.3	661.8	642.4	622.0	587.5	549.1	511.5	488.1	458.9	433.7	410.3
27.5°	696.7	661.4	637.5	616.3	578.3	534.1	495.6	470.8	438.6	409.4	386.0
30°	692.3	656.5	634.9	611.9	569.4	520.3	476.1	448.7	414.2	385.1	360.8
32.5°	679.1	646.8	629.1	603.9	557.9	501.3	457.6	427.1	390.8	362.1	338.6
35°	657.0	634.9	615.4	592.0	542.9	483.7	439.0	403.2	366.5	339.1	317.0
37.5°	629.5	617.6	599.5	576.5	525.7	467.7	418.2	378.4	341.7	315.2	293.6
40°	592.4	595.5	577.8	557.0	505.3	446.1	391.3	353.2	318.8	294.0	272.8
42.5°	552.2	565.0	554.8	534.9	482.8	422.2	371.4	329.4	295.8	270.1	252.4
45°	508.9	531.0	524.8	510.2	459.3	397.0	343.1	302.4	272.8	248.0	232.5
47.5°	461.6	492.9	492.9	482.3	433.3	371.8	318.8	277.2	248.0	230.3	215.3
50°	413.4	448.7	454.5	447.4	404.1	343.1	289.1	251.6	226.4	209.1	198.1
52.5°	363.0	404.1	414.7	411.2	373.1	315.7	264.8	228.1	205.1	190.1	180.4
55°	314.8	362.5	374.0	375.3	340.0	285.6	237.8	205.6	183.5	173.3	164.9
57.5°	269.2	315.2	328.0	330.2	306.4	258.2	212.6	184.4	164.5	156.1	149.4
60°	230.3	268.8	285.6	290.5	269.7	226.4	189.2	161.8	146.8	138.8	132.6
62.5°	198.5	229.4	247.1	248.5	239.2	198.5	164.9	141.9	129.1	122.0	118.9
65°	167.6	195.4	206.0	211.3	203.8	172.0	142.4	123.3	113.2	107.0	103.9
67.5°	142.8	160.5	169.3	176.4	168.9	145.0	121.1	105.7	98.1	92.0	90.2
70°	117.2	131.7	138.4	145.5	138.8	120.7	103.5	89.3	82.7	77.8	75.6
72.5°	93.7	105.2	111.4	115.8	111.9	96.8	82.7	72.9	68.1	64.5	63.2
75°	74.3	82.2	85.8	88.9	87.1	75.6	66.8	58.8	54.4	51.3	50.4
77.5°	56.6	62.3	66.3	67.2	65.0	57.5	50.0	45.1	41.6	39.8	38.9
80°	40.2	43.8	46.0	47.3	45.1	42.0	36.7	33.2	30.1	27.9	27.4
82.5°	27.0	28.7	30.5	30.1	29.2	26.5	23.4	21.7	20.3	18.6	18.6
85°	15.5	15.9	16.8	17.2	16.8	15.0	13.3	12.4	11.5	10.2	10.2
87.5°	6.6	7.1	7.1	7.5	6.6	6.6	5.7	4.9	4.9	4.4	4.0
90°	14.2	12.5	11.6	10.4	8.1	5.7	3.4	1.0	3.4	5.7	8.1
92.5°	21.4	20.7	20.4	20.8	21.7	22.5	23.4	24.2	23.4	22.5	21.7
95°	33.3	31.8	31.0	34.6	41.7	48.8	55.9	63.0	55.9	48.8	41.7
97.5°	39.1	35.6	33.9	42.7	60.4	78.1	95.7	113.4	95.7	78.1	60.4
100°	44.3	40.6	38.8	53.5	83.0	112.5	142.0	171.5	142.0	112.5	83.0
102.5°	174.8	214.0	233.6	233.8	234.2	234.7	235.1	235.5	235.1	234.7	234.2
105°	235.5	294.3	323.7	320.5	314.0	307.5	301.1	294.6	301.1	307.5	314.0
107.5°	278.8	351.4	387.7	385.0	379.6	374.2	368.8	363.4	368.8	374.2	379.6
110°	356.3	418.6	449.7	447.4	442.9	438.4	433.8	429.3	433.8	438.4	442.9

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	503.3	507.0	508.8	506.9	503.0	499.1	495.3	491.4	495.3	499.1	503.0
115°	581.9	576.5	573.8	572.0	568.3	564.6	561.0	557.3	561.0	564.6	568.3
117.5°	639.3	635.6	633.8	631.7	627.4	623.1	618.8	614.5	618.8	623.1	627.4
120°	698.8	694.9	693.0	691.4	688.1	684.9	681.6	678.4	681.6	684.9	688.1
122.5°	754.7	750.4	748.2	746.5	743.0	739.6	736.1	732.7	736.1	739.6	743.0
125°	806.7	802.6	800.5	799.1	796.3	793.5	790.7	787.9	790.7	793.5	796.3
127.5°	856.7	853.5	851.9	850.4	847.4	844.3	841.3	838.3	841.3	844.3	847.4
130°	904.9	902.5	901.3	899.6	896.1	892.7	889.2	885.8	889.2	892.7	896.1
132.5°	950.4	948.1	946.9	945.5	942.7	939.9	937.1	934.3	937.1	939.9	942.7
135°	993.4	991.5	990.5	988.8	985.3	981.9	978.4	975.0	978.4	981.9	985.3
137.5°	1032.5	1030.4	1029.3	1028.0	1025.4	1022.8	1020.2	1017.6	1020.2	1022.8	1025.4
140°	1070.6	1068.3	1067.1	1066.2	1064.5	1062.8	1061.0	1059.3	1061.0	1062.8	1064.5
142.5°	1105.2	1102.4	1101.0	1100.2	1098.7	1097.2	1095.7	1094.2	1095.7	1097.2	1098.7
145°	1135.6	1131.9	1130.1	1130.2	1130.4	1130.6	1130.8	1131.0	1130.8	1130.6	1130.4
147.5°	1165.6	1161.9	1160.1	1160.4	1161.1	1161.7	1162.4	1163.0	1162.4	1161.7	1161.1
150°	1192.4	1188.9	1187.2	1188.0	1189.5	1191.0	1192.5	1194.0	1192.5	1191.0	1189.5
152.5°	1217.3	1214.0	1212.4	1213.3	1215.0	1216.7	1218.5	1220.2	1218.5	1216.7	1215.0
155°	1240.6	1238.0	1236.7	1237.7	1239.6	1241.5	1243.5	1245.4	1243.5	1241.5	1239.6
157.5°	1260.9	1259.0	1258.0	1258.9	1260.6	1262.3	1264.0	1265.7	1264.0	1262.3	1260.6
160°	1279.3	1278.0	1277.4	1278.0	1279.3	1280.6	1281.9	1283.2	1281.9	1280.6	1279.3
162.5°	1294.5	1293.4	1292.9	1293.5	1294.8	1296.1	1297.4	1298.7	1297.4	1296.1	1294.8
165°	1307.4	1306.7	1306.4	1307.1	1308.4	1309.7	1311.0	1312.3	1311.0	1309.7	1308.4
167.5°	1318.1	1317.4	1317.1	1317.7	1319.0	1320.3	1321.6	1322.9	1321.6	1320.3	1319.0
170°	1326.5	1326.0	1325.8	1326.4	1327.7	1329.0	1330.3	1331.6	1330.3	1329.0	1327.7
172.5°	1332.3	1331.8	1331.6	1332.3	1333.6	1334.9	1336.2	1337.5	1336.2	1334.9	1333.6
175°	1336.2	1335.7	1335.5	1336.3	1337.8	1339.3	1340.8	1342.3	1340.8	1339.3	1337.8
177.5°	1337.8	1337.6	1337.5	1338.2	1339.7	1341.2	1342.7	1344.2	1342.7	1341.2	1339.7
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	569.0	571.2	570.7	566.3	561.5	557.5	550.0	550.9	548.2	548.6	551.3
5°	554.8	554.8	553.1	546.9	538.9	534.5	526.1	523.9	518.6	518.1	517.7
7.5°	539.8	537.6	535.4	526.5	516.8	509.7	498.2	495.6	490.3	486.8	485.0
10°	522.1	519.0	514.6	504.4	492.5	483.7	471.7	468.2	458.0	453.6	450.9
12.5°	502.7	500.9	493.8	485.4	466.0	456.2	439.0	442.5	432.4	423.5	422.2
15°	483.2	476.6	472.6	458.9	435.5	431.0	417.3	410.3	401.0	393.9	393.9
17.5°	464.2	454.0	445.2	430.6	413.4	401.0	390.8	387.3	375.8	368.7	367.4
20°	439.0	427.5	425.3	404.5	392.6	378.9	369.2	360.3	351.9	348.8	346.6
22.5°	415.1	401.9	398.3	380.6	368.7	355.0	345.3	339.1	332.9	330.7	326.7
25°	389.5	381.5	376.2	357.2	344.0	331.1	324.5	320.1	314.3	313.9	311.2
27.5°	364.7	357.2	351.9	333.8	324.1	312.1	306.8	302.0	298.9	297.5	296.2
30°	343.5	335.1	328.9	315.7	303.7	294.0	289.6	286.5	284.7	282.5	282.1
32.5°	320.1	315.2	306.8	296.6	287.4	278.1	275.4	273.2	270.6	269.7	269.2
35°	300.2	293.6	288.2	276.8	272.8	264.8	261.7	260.0	256.4	255.5	254.6
37.5°	280.7	274.5	268.8	261.7	254.2	249.8	248.0	245.4	243.6	244.0	243.2
40°	261.3	256.4	252.0	244.5	240.1	237.8	234.3	231.7	230.8	231.2	230.8
42.5°	242.3	237.8	235.2	229.4	225.0	222.8	220.6	218.0	219.3	219.3	220.6
45°	225.0	221.0	219.3	214.9	212.2	208.7	206.5	206.0	207.8	207.3	207.3
47.5°	207.3	206.0	203.8	199.8	196.3	194.1	193.6	193.6	195.4	196.3	195.8
50°	193.6	191.0	188.3	185.2	182.6	181.7	180.4	181.3	183.0	183.0	183.9
52.5°	176.4	174.6	173.7	171.1	169.3	169.3	169.3	169.8	171.1	172.4	172.0
55°	161.4	160.0	159.2	157.8	155.6	156.1	155.6	156.5	157.8	159.2	160.0
57.5°	145.5	145.0	144.1	141.9	141.9	141.5	142.8	143.2	145.5	146.3	147.7
60°	131.3	130.0	130.0	128.2	128.2	128.2	129.5	130.9	132.6	133.1	134.0
62.5°	116.3	116.3	115.8	114.5	114.5	115.8	116.3	118.0	118.9	118.9	120.3
65°	102.1	101.7	101.2	101.7	102.1	102.1	103.5	104.3	105.2	105.7	106.1
67.5°	88.0	87.5	88.4	88.0	88.9	90.6	90.2	91.5	92.8	92.8	93.3
70°	74.7	75.6	75.2	76.0	75.6	76.5	77.8	78.3	78.3	78.7	80.0
72.5°	62.3	62.3	62.3	61.9	62.3	63.2	64.1	64.5	65.4	65.9	67.2
75°	50.4	50.4	49.5	50.4	50.4	51.3	52.2	52.2	52.2	53.1	54.4
77.5°	38.0	38.5	38.0	38.9	38.9	39.3	40.2	39.8	40.7	41.1	41.6
80°	27.9	27.4	27.4	27.4	27.9	27.9	28.7	29.2	29.2	30.5	29.6
82.5°	17.7	18.1	17.7	18.1	18.1	18.6	18.1	18.6	19.0	19.9	19.5
85°	10.2	9.7	9.7	10.2	9.7	9.7	10.2	9.7	10.2	9.7	10.2
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.7	2.7	2.7	2.2
90°	10.4	11.6	12.5	14.2	15.9	17.7	19.4	20.5	21.5	22.6	23.7
92.5°	20.8	20.4	20.7	21.4	22.0	22.7	23.3	23.7	24.1	24.6	25.0
95°	34.6	31.0	31.8	33.3	34.8	36.3	37.8	38.9	39.9	41.0	42.1
97.5°	42.7	33.9	35.6	39.1	42.5	46.0	49.4	50.0	50.7	51.3	52.0
100°	53.5	38.8	40.6	44.3	47.9	51.6	55.2	56.9	58.7	60.4	62.1
102.5°	233.8	233.6	214.0	174.8	135.6	96.4	57.2	59.6	61.9	64.3	66.6
105°	320.5	323.7	294.3	235.5	176.7	117.9	59.1	61.5	63.9	66.2	68.6
107.5°	385.0	387.7	351.4	278.8	206.3	133.7	61.1	63.5	65.8	68.2	70.5
110°	447.4	449.7	418.6	356.3	294.1	231.8	169.6	148.1	126.5	105.0	83.5



TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	506.9	508.8	507.0	503.3	499.6	496.0	492.3	399.5	306.7	213.8	121.0
115°	572.0	573.8	576.5	581.9	587.2	592.6	598.0	498.3	398.6	298.9	199.2
117.5°	631.7	633.8	635.6	639.3	643.0	646.6	650.3	619.5	588.7	557.9	527.1
120°	691.4	693.0	694.9	698.8	702.7	706.5	710.4	713.0	715.6	718.1	720.7
122.5°	746.5	748.2	750.4	754.7	759.0	763.3	767.6	768.9	770.2	771.5	772.8
125°	799.1	800.5	802.6	806.7	810.8	814.9	819.0	820.5	822.0	823.5	825.0
127.5°	850.4	851.9	853.5	856.7	860.0	863.2	866.4	868.6	870.7	872.9	875.0
130°	899.6	901.3	902.5	904.9	907.2	909.6	912.0	914.4	916.8	919.1	921.5
132.5°	945.5	946.9	948.1	950.4	952.8	955.1	957.5	959.5	961.4	963.4	965.3
135°	988.8	990.5	991.5	993.4	995.3	997.3	999.2	1001.4	1003.5	1005.7	1007.8
137.5°	1028.0	1029.3	1030.4	1032.5	1034.7	1036.8	1039.0	1041.1	1043.3	1045.4	1047.5
140°	1066.2	1067.1	1068.3	1070.6	1073.0	1075.3	1077.7	1079.6	1081.6	1083.5	1085.4
142.5°	1100.2	1101.0	1102.4	1105.2	1108.0	1110.8	1113.6	1115.3	1117.0	1118.7	1120.4
145°	1130.2	1130.1	1131.9	1135.6	1139.2	1142.9	1146.5	1148.0	1149.5	1151.0	1152.5
147.5°	1160.4	1160.1	1161.9	1165.6	1169.3	1172.9	1176.6	1177.7	1178.7	1179.8	1180.9
150°	1188.0	1187.2	1188.9	1192.4	1195.8	1199.3	1202.7	1204.0	1205.3	1206.6	1207.9
152.5°	1213.3	1212.4	1214.0	1217.3	1220.5	1223.8	1227.0	1228.3	1229.6	1230.9	1232.2
155°	1237.7	1236.7	1238.0	1240.6	1243.1	1245.7	1248.3	1249.6	1250.9	1252.2	1253.5
157.5°	1258.9	1258.0	1259.0	1260.9	1262.8	1264.8	1266.7	1268.2	1269.7	1271.2	1272.7
160°	1278.0	1277.4	1278.0	1279.3	1280.6	1281.9	1283.2	1284.5	1285.8	1287.1	1288.4
162.5°	1293.5	1292.9	1293.4	1294.5	1295.6	1296.6	1297.7	1299.2	1300.7	1302.2	1303.7
165°	1307.1	1306.4	1306.7	1307.4	1308.1	1308.7	1309.4	1310.9	1312.4	1313.9	1315.4
167.5°	1317.7	1317.1	1317.4	1318.1	1318.7	1319.4	1320.0	1321.5	1323.0	1324.5	1326.0
170°	1326.4	1325.8	1326.0	1326.5	1326.9	1327.4	1327.8	1329.3	1330.8	1332.3	1333.8
172.5°	1332.3	1331.6	1331.8	1332.3	1332.7	1333.2	1333.6	1335.1	1336.6	1338.1	1339.6
175°	1336.3	1335.5	1335.7	1336.2	1336.6	1337.1	1337.5	1339.0	1340.5	1342.0	1343.5
177.5°	1338.2	1337.5	1337.6	1337.8	1338.0	1338.2	1338.4	1339.9	1341.4	1342.9	1344.4
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	548.2	549.5	546.4	545.5	546.4	543.3	544.2	545.1	545.1	546.4	547.3
5°	516.4	514.6	511.5	510.6	509.7	511.1	510.2	511.5	511.9	515.0	515.5
7.5°	485.0	482.3	479.7	477.0	476.1	473.9	476.1	476.1	479.2	478.4	480.6
10°	447.8	447.4	443.9	442.5	440.8	437.2	442.1	440.8	443.0	447.0	447.8
12.5°	420.4	415.6	417.8	411.6	413.8	410.3	410.7	410.7	414.2	414.7	413.8
15°	394.4	390.4	384.6	382.0	380.6	378.9	384.6	385.1	382.4	388.6	386.4
17.5°	367.8	367.8	362.5	361.2	357.7	359.4	358.5	359.0	358.1	362.5	364.7
20°	344.8	342.6	340.9	341.3	336.9	336.0	335.1	336.0	339.1	342.2	343.1
22.5°	326.3	324.9	320.5	321.4	317.9	319.2	318.3	320.5	321.0	321.0	324.1
25°	308.6	306.8	307.3	305.5	304.2	304.2	302.8	304.2	305.9	306.8	307.3
27.5°	295.3	294.0	291.8	290.5	291.3	289.1	290.9	292.2	292.2	291.3	292.2
30°	279.4	280.3	280.3	275.9	277.6	276.8	278.1	279.0	279.0	279.4	278.5
32.5°	268.8	266.1	265.7	265.3	265.3	263.5	263.5	264.8	265.3	265.7	267.0
35°	254.6	254.6	252.4	253.8	252.0	252.4	252.0	252.4	253.3	252.0	253.3
37.5°	241.8	242.3	241.4	242.3	242.7	241.8	240.9	242.7	241.8	241.8	240.9
40°	230.8	230.3	230.8	230.8	230.8	231.2	230.3	230.3	230.3	229.4	228.6
42.5°	221.5	218.8	219.7	220.2	218.8	218.8	219.3	218.8	220.2	217.5	217.5
45°	208.2	207.3	207.8	207.8	208.7	207.3	208.2	208.7	207.3	206.9	206.0
47.5°	196.3	197.2	196.3	197.2	197.2	198.1	196.3	196.7	197.2	195.4	194.1
50°	184.4	184.4	185.7	185.2	185.7	184.8	184.8	184.4	184.8	183.9	182.6
52.5°	173.3	172.0	174.2	173.7	173.3	172.9	172.4	172.9	172.0	171.1	171.1
55°	159.6	159.6	160.9	161.4	161.4	160.5	159.6	160.0	159.6	159.2	158.7
57.5°	148.5	146.8	147.7	148.1	148.1	146.8	147.7	146.8	146.8	147.2	145.9
60°	134.4	134.4	133.5	134.8	134.8	134.0	134.0	134.4	133.5	133.1	132.6
62.5°	119.4	119.8	121.1	121.6	122.0	121.1	120.3	120.7	120.7	119.4	119.8
65°	106.5	107.4	109.2	108.8	107.9	108.3	107.4	107.9	106.5	107.0	105.7
67.5°	94.2	93.7	94.2	94.2	95.1	94.6	93.7	93.7	93.3	94.6	93.3
70°	80.9	80.9	80.9	80.9	81.3	81.8	80.9	80.0	80.5	79.6	79.1
72.5°	67.2	67.6	67.2	68.1	66.8	67.6	67.6	67.2	66.8	66.8	66.8
75°	54.4	55.3	53.9	54.4	53.9	54.8	54.4	54.4	53.5	53.1	53.5
77.5°	41.6	42.0	41.1	41.6	41.1	41.6	41.6	41.1	41.1	41.1	41.1
80°	29.6	30.1	29.6	29.2	28.7	29.6	28.7	29.2	29.6	29.2	30.1
82.5°	19.0	19.0	18.6	19.0	18.1	18.1	18.6	18.6	18.1	19.0	18.1
85°	9.3	9.3	10.2	9.3	8.8	8.8	8.8	9.3	8.8	9.7	9.3
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.7	1.8
90°	24.2	24.4	24.9	25.3	25.8	26.2	25.8	25.3	24.9	24.4	24.2
92.5°	25.2	25.3	25.5	25.8	26.0	26.2	26.0	25.8	25.5	25.3	25.2
95°	42.6	42.5	42.3	42.1	41.9	41.7	41.9	42.1	42.3	42.5	42.6
97.5°	52.3	52.4	52.6	52.9	53.1	53.3	53.1	52.9	52.6	52.4	52.3
100°	63.0	63.2	63.6	64.1	64.5	64.9	64.5	64.1	63.6	63.2	63.0
102.5°	67.8	68.1	68.8	69.4	70.1	70.7	70.1	69.4	68.8	68.1	67.8
105°	69.8	70.2	71.1	72.0	72.8	73.7	72.8	72.0	71.1	70.2	69.8
107.5°	71.7	72.1	73.0	73.9	74.7	75.6	74.7	73.9	73.0	72.1	71.7
110°	72.7	73.1	74.0	74.9	75.7	76.6	75.7	74.9	74.0	73.1	72.7

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	74.6	74.9	75.6	76.2	76.9	77.5	76.9	76.2	75.6	74.9	74.6
115°	149.3	141.5	126.0	110.5	95.0	79.5	95.0	110.5	126.0	141.5	149.3
117.5°	511.7	483.5	427.1	370.6	314.2	257.8	314.2	370.6	427.1	483.5	511.7
120°	722.0	707.5	678.4	649.3	620.3	591.2	620.3	649.3	678.4	707.5	722.0
122.5°	773.4	773.5	773.7	774.0	774.2	774.4	774.2	774.0	773.7	773.5	773.4
125°	825.7	826.0	826.7	827.3	828.0	828.6	828.0	827.3	826.7	826.0	825.7
127.5°	876.1	876.2	876.4	876.7	876.9	877.1	876.9	876.7	876.4	876.2	876.1
130°	922.7	922.6	922.4	922.1	921.9	921.7	921.9	922.1	922.4	922.6	922.7
132.5°	966.3	966.2	966.0	965.7	965.5	965.3	965.5	965.7	966.0	966.2	966.3
135°	1008.9	1008.7	1008.3	1007.8	1007.4	1007.0	1007.4	1007.8	1008.3	1008.7	1008.9
137.5°	1048.6	1048.3	1047.6	1047.0	1046.3	1045.7	1046.3	1047.0	1047.6	1048.3	1048.6
140°	1086.4	1085.9	1084.8	1083.7	1082.7	1081.6	1082.7	1083.7	1084.8	1085.9	1086.4
142.5°	1121.3	1120.8	1119.7	1118.6	1117.6	1116.5	1117.6	1118.6	1119.7	1120.8	1121.3
145°	1153.3	1152.8	1151.7	1150.6	1149.6	1148.5	1149.6	1150.6	1151.7	1152.8	1153.3
147.5°	1181.4	1181.0	1180.1	1179.2	1178.4	1177.5	1178.4	1179.2	1180.1	1181.0	1181.4
150°	1208.6	1208.1	1207.0	1205.9	1204.8	1203.7	1204.8	1205.9	1207.0	1208.1	1208.6
152.5°	1232.8	1232.0	1230.5	1229.0	1227.5	1226.0	1227.5	1229.0	1230.5	1232.0	1232.8
155°	1254.1	1253.2	1251.5	1249.8	1248.1	1246.4	1248.1	1249.8	1251.5	1253.2	1254.1
157.5°	1273.5	1272.6	1270.9	1269.2	1267.4	1265.7	1267.4	1269.2	1270.9	1272.6	1273.5
160°	1289.0	1288.2	1286.7	1285.2	1283.7	1282.2	1283.7	1285.2	1286.7	1288.2	1289.0
162.5°	1304.5	1303.5	1301.6	1299.7	1297.7	1295.8	1297.7	1299.7	1301.6	1303.5	1304.5
165°	1316.1	1315.4	1313.9	1312.4	1310.9	1309.4	1310.9	1312.4	1313.9	1315.4	1316.1
167.5°	1326.8	1325.8	1323.9	1322.0	1320.0	1318.1	1320.0	1322.0	1323.9	1325.8	1326.8
170°	1334.6	1333.6	1331.7	1329.7	1327.8	1325.8	1327.8	1329.7	1331.7	1333.6	1334.6
172.5°	1340.4	1339.4	1337.5	1335.5	1333.6	1331.6	1333.6	1335.5	1337.5	1339.4	1340.4
175°	1344.2	1343.1	1341.0	1338.9	1336.7	1334.6	1336.7	1338.9	1341.0	1343.1	1344.2
177.5°	1345.2	1344.2	1342.3	1340.4	1338.4	1336.5	1338.4	1340.4	1342.3	1344.2	1345.2
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	546.0	549.5	548.2	543.3	549.1	549.1	553.1	553.1	557.9	559.7	562.3
5°	515.0	517.7	519.9	517.7	521.7	527.9	531.4	534.5	541.1	543.8	547.8
7.5°	481.9	486.8	489.0	489.0	495.6	502.7	509.7	514.2	523.4	527.0	531.0
10°	449.6	455.4	459.8	459.3	470.4	474.8	483.7	493.8	503.1	508.4	514.2
12.5°	415.6	418.7	424.9	433.7	436.4	444.3	454.5	467.3	484.1	489.0	497.4
15°	387.3	395.7	400.5	404.5	410.7	418.2	429.3	441.7	458.5	469.1	477.9
17.5°	363.4	374.5	377.6	376.7	384.6	396.1	408.9	418.2	433.3	446.1	454.5
20°	344.0	348.4	353.7	355.9	362.1	374.5	386.8	397.4	409.8	420.0	429.7
22.5°	324.5	328.0	332.5	336.4	341.3	348.4	360.3	373.6	385.5	395.2	406.3
25°	308.6	310.8	314.8	317.9	323.2	328.0	336.4	351.0	365.2	370.9	380.6
27.5°	293.1	294.9	297.5	301.1	303.7	308.6	316.1	328.0	342.6	348.4	361.6
30°	279.4	280.7	283.4	285.2	286.5	292.2	298.0	307.3	318.3	326.3	336.0
32.5°	266.6	267.9	270.6	271.0	272.8	275.9	281.2	289.6	299.3	305.9	314.3
35°	252.4	253.3	256.0	256.9	258.2	260.8	264.8	271.0	279.8	284.7	292.2
37.5°	241.4	240.9	242.7	244.0	245.8	247.1	248.5	254.6	261.3	265.7	271.4
40°	229.4	228.6	229.0	230.8	231.7	233.4	233.4	239.6	244.0	247.6	252.0
42.5°	217.5	217.1	216.2	217.1	218.0	218.4	218.8	223.3	227.7	230.8	235.6
45°	205.6	205.1	204.2	204.7	204.7	205.6	206.9	208.7	211.8	214.4	217.1
47.5°	194.5	193.6	192.3	191.9	192.8	192.8	192.8	194.5	197.6	198.5	201.2
50°	183.0	181.7	179.9	179.0	179.0	178.6	179.5	179.9	182.6	183.5	185.7
52.5°	170.6	169.8	168.0	166.2	166.7	165.8	166.2	166.7	167.6	168.9	170.2
55°	158.3	156.5	155.2	154.7	153.4	153.4	152.1	153.9	153.4	153.9	155.6
57.5°	146.3	144.6	142.4	141.5	140.1	139.7	138.8	138.4	138.8	140.1	141.5
60°	132.2	131.3	130.0	128.7	127.8	126.4	125.6	125.6	125.1	125.1	125.6
62.5°	118.5	118.0	116.3	115.8	114.9	114.1	112.7	111.9	111.9	112.7	113.2
65°	105.2	104.8	103.5	103.0	100.8	99.9	99.5	99.0	98.1	98.1	98.1
67.5°	92.8	91.5	91.5	89.3	87.5	86.7	85.8	85.3	85.3	85.3	85.8
70°	79.1	79.1	77.8	76.5	74.7	75.2	73.8	72.5	72.5	71.6	72.1
72.5°	65.9	65.4	64.1	63.7	62.3	61.0	60.1	61.0	59.7	59.2	59.7
75°	53.1	52.6	51.7	50.8	51.3	50.0	48.6	48.2	48.2	47.3	47.3
77.5°	40.7	41.6	39.8	39.3	38.5	37.6	37.1	36.7	36.7	36.7	37.6
80°	28.3	28.7	28.7	27.9	28.3	27.0	27.0	27.0	25.6	26.1	26.5
82.5°	18.1	18.1	17.7	18.1	17.7	17.7	17.2	17.2	16.8	16.8	17.2
85°	10.2	9.7	9.3	10.2	9.7	9.7	9.3	9.3	9.3	9.3	9.3
87.5°	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.5	3.5	3.5
90°	23.7	22.6	21.5	20.5	19.4	17.7	15.9	14.2	12.5	11.6	10.4
92.5°	25.0	24.6	24.1	23.7	23.3	22.7	22.0	21.4	20.7	20.4	20.8
95°	42.1	41.0	39.9	38.9	37.8	36.3	34.8	33.3	31.8	31.0	34.6
97.5°	52.0	51.3	50.7	50.0	49.4	46.0	42.5	39.1	35.6	33.9	42.7
100°	62.1	60.4	58.7	56.9	55.2	51.6	47.9	44.3	40.6	38.8	53.5
102.5°	66.6	64.3	61.9	59.6	57.2	96.4	135.6	174.8	214.0	233.6	233.8
105°	68.6	66.2	63.9	61.5	59.1	117.9	176.7	235.5	294.3	323.7	320.5
107.5°	70.5	68.2	65.8	63.5	61.1	133.7	206.3	278.8	351.4	387.7	385.0
110°	83.5	105.0	126.5	148.1	169.6	231.8	294.1	356.3	418.6	449.7	447.4

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CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	121.0	213.8	306.7	399.5	492.3	496.0	499.6	503.3	507.0	508.8	506.9
115°	199.2	298.9	398.6	498.3	598.0	592.6	587.2	581.9	576.5	573.8	572.0
117.5°	527.1	557.9	588.7	619.5	650.3	646.6	643.0	639.3	635.6	633.8	631.7
120°	720.7	718.1	715.6	713.0	710.4	706.5	702.7	698.8	694.9	693.0	691.4
122.5°	772.8	771.5	770.2	768.9	767.6	763.3	759.0	754.7	750.4	748.2	746.5
125°	825.0	823.5	822.0	820.5	819.0	814.9	810.8	806.7	802.6	800.5	799.1
127.5°	875.0	872.9	870.7	868.6	866.4	863.2	860.0	856.7	853.5	851.9	850.4
130°	921.5	919.1	916.8	914.4	912.0	909.6	907.2	904.9	902.5	901.3	899.6
132.5°	965.3	963.4	961.4	959.5	957.5	955.1	952.8	950.4	948.1	946.9	945.5
135°	1007.8	1005.7	1003.5	1001.4	999.2	997.3	995.3	993.4	991.5	990.5	988.8
137.5°	1047.5	1045.4	1043.3	1041.1	1039.0	1036.8	1034.7	1032.5	1030.4	1029.3	1028.0
140°	1085.4	1083.5	1081.6	1079.6	1077.7	1075.3	1073.0	1070.6	1068.3	1067.1	1066.2
142.5°	1120.4	1118.7	1117.0	1115.3	1113.6	1110.8	1108.0	1105.2	1102.4	1101.0	1100.2
145°	1152.5	1151.0	1149.5	1148.0	1146.5	1142.9	1139.2	1135.6	1131.9	1130.1	1130.2
147.5°	1180.9	1179.8	1178.7	1177.7	1176.6	1172.9	1169.3	1165.6	1161.9	1160.1	1160.4
150°	1207.9	1206.6	1205.3	1204.0	1202.7	1199.3	1195.8	1192.4	1188.9	1187.2	1188.0
152.5°	1232.2	1230.9	1229.6	1228.3	1227.0	1223.8	1220.5	1217.3	1214.0	1212.4	1213.3
155°	1253.5	1252.2	1250.9	1249.6	1248.3	1245.7	1243.1	1240.6	1238.0	1236.7	1237.7
157.5°	1272.7	1271.2	1269.7	1268.2	1266.7	1264.8	1262.8	1260.9	1259.0	1258.0	1258.9
160°	1288.4	1287.1	1285.8	1284.5	1283.2	1281.9	1280.6	1279.3	1278.0	1277.4	1278.0
162.5°	1303.7	1302.2	1300.7	1299.2	1297.7	1296.6	1295.6	1294.5	1293.4	1292.9	1293.5
165°	1315.4	1313.9	1312.4	1310.9	1309.4	1308.7	1308.1	1307.4	1306.7	1306.4	1307.1
167.5°	1326.0	1324.5	1323.0	1321.5	1320.0	1319.4	1318.7	1318.1	1317.4	1317.1	1317.7
170°	1333.8	1332.3	1330.8	1329.3	1327.8	1327.4	1326.9	1326.5	1326.0	1325.8	1326.4
172.5°	1339.6	1338.1	1336.6	1335.1	1333.6	1333.2	1332.7	1332.3	1331.8	1331.6	1332.3
175°	1343.5	1342.0	1340.5	1339.0	1337.5	1337.1	1336.6	1336.2	1335.7	1335.5	1336.3
177.5°	1344.4	1342.9	1341.4	1339.9	1338.4	1338.2	1338.0	1337.8	1337.6	1337.5	1338.2
180°	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4	1339.4

TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	575.2	575.2	575.2	575.2
2.5°	564.6	564.6	571.2	578.3
5°	552.2	555.3	565.9	575.6
7.5°	540.2	545.5	558.8	571.2
10°	525.7	532.7	549.1	563.7
12.5°	511.5	518.1	537.1	553.5
15°	491.6	500.0	520.3	540.7
17.5°	471.7	480.1	504.9	528.7
20°	448.3	459.3	487.2	519.0
22.5°	426.6	440.3	471.3	496.9
25°	402.8	424.0	452.7	485.9
27.5°	381.5	402.8	431.9	465.5
30°	357.7	379.3	409.4	440.3
32.5°	334.7	354.6	383.7	421.8
35°	310.8	329.8	358.1	396.6
37.5°	289.1	307.7	338.6	374.0
40°	267.9	287.4	313.9	349.3
42.5°	248.0	265.3	289.1	324.5
45°	229.9	242.3	264.4	297.5
47.5°	210.9	221.9	242.3	275.4
50°	193.2	202.5	220.2	251.1
52.5°	176.0	183.9	200.3	225.0
55°	160.5	168.0	179.9	204.2
57.5°	144.6	150.3	161.8	181.3
60°	129.1	134.4	143.7	159.6
62.5°	113.6	118.0	126.9	139.7
65°	99.9	103.5	110.1	121.1
67.5°	86.7	88.9	94.2	103.0
70°	73.8	75.6	80.0	87.1
72.5°	60.1	61.9	66.8	71.6
75°	48.6	49.1	52.6	56.6
77.5°	38.0	37.6	40.2	43.3
80°	26.1	27.4	29.6	30.9
82.5°	17.7	18.1	19.0	19.9
85°	9.7	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	8.1	5.7	3.4	1.0
92.5°	21.7	22.5	23.4	24.2
95°	41.7	48.8	55.9	63.0
97.5°	60.4	78.1	95.7	113.4
100°	83.0	112.5	142.0	171.5
102.5°	234.2	234.7	235.1	235.5
105°	314.0	307.5	301.1	294.6
107.5°	379.6	374.2	368.8	363.4
110°	442.9	438.4	433.8	429.3



TEST NUMBER: P1029427

CATALOG NUMBER: S122DIW-B290D970UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	503.0	499.1	495.3	491.4
115°	568.3	564.6	561.0	557.3
117.5°	627.4	623.1	618.8	614.5
120°	688.1	684.9	681.6	678.4
122.5°	743.0	739.6	736.1	732.7
125°	796.3	793.5	790.7	787.9
127.5°	847.4	844.3	841.3	838.3
130°	896.1	892.7	889.2	885.8
132.5°	942.7	939.9	937.1	934.3
135°	985.3	981.9	978.4	975.0
137.5°	1025.4	1022.8	1020.2	1017.6
140°	1064.5	1062.8	1061.0	1059.3
142.5°	1098.7	1097.2	1095.7	1094.2
145°	1130.4	1130.6	1130.8	1131.0
147.5°	1161.1	1161.7	1162.4	1163.0
150°	1189.5	1191.0	1192.5	1194.0
152.5°	1215.0	1216.7	1218.5	1220.2
155°	1239.6	1241.5	1243.5	1245.4
157.5°	1260.6	1262.3	1264.0	1265.7
160°	1279.3	1280.6	1281.9	1283.2
162.5°	1294.8	1296.1	1297.4	1298.7
165°	1308.4	1309.7	1311.0	1312.3
167.5°	1319.0	1320.3	1321.6	1322.9
170°	1327.7	1329.0	1330.3	1331.6
172.5°	1333.6	1334.9	1336.2	1337.5
175°	1337.8	1339.3	1340.8	1342.3
177.5°	1339.7	1341.2	1342.7	1344.2
180°	1339.4	1339.4	1339.4	1339.4

(END OF REPORT)