

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: P1030790

Luminaire Tested: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030790
REPORT IS A COMBINATION OF REPORTS P991190 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

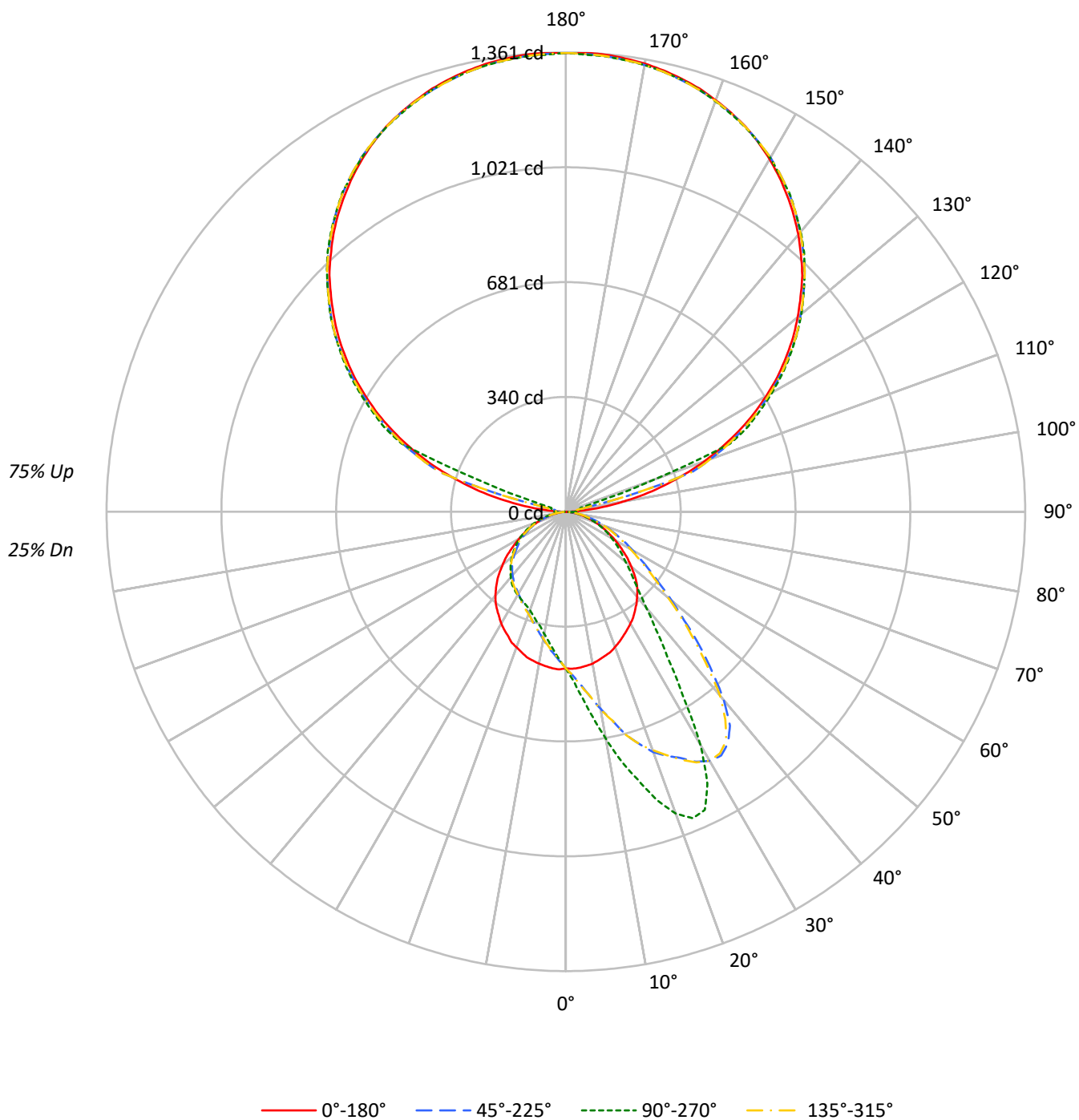
Lumens per Lamp: N/A
Luminaire Lumens: 5548.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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



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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	70	70	70	51	51	51	33	33	33
1	92	88	85	81	82	79	76	73	61	59	57	45	44	42	30	29	28
2	84	77	71	67	75	69	64	60	54	50	47	39	37	36	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21
4	70	60	53	47	62	54	47	42	42	38	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	16
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4997	4997	4997	4997
5°	4999	5757	5014	4297
10°	4968	6966	4973	3752
15°	4899	8262	4939	3377
20°	4840	9512	4850	3108
25°	4752	9752	4763	2967
30°	4690	8057	4690	2875
35°	4612	5388	4583	2793
40°	4520	3889	4463	2669
45°	4402	3081	4276	2514
50°	4117	2616	3971	2362
55°	3807	2299	3651	2192
60°	3489	2002	3304	2013
65°	3143	1714	2990	1775
70°	2783	1423	2597	1498
75°	2377	1073	2225	1156
80°	1878	717	1732	759
85°	1297	328	1037	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	0.8
10°-20°	146.6	2.6
20°-30°	246.7	4.4
30°-40°	278.8	5.0
40°-50°	249.7	4.5
50°-60°	201.6	3.6
60°-70°	140.5	2.5
70°-80°	73.7	1.3
80°-90°	20.4	0.4
90°-100°	47.9	0.9
100°-110°	231.8	4.2
110°-120°	568.0	10.2
120°-130°	721.0	13.0
130°-140°	770.3	13.9
140°-150°	720.3	13.0
150°-160°	581.0	10.5
160°-170°	374.9	6.8
170°-180°	129.2	2.3
0°-30°	439.0	7.9
0°-40°	717.8	12.9
0°-60°	1169.1	21.1
0°-90°	1403.7	25.3
90°-120°	847.7	15.3
90°-150°	3059.2	55.1
90°-180°	4144.0	74.7
0°-180°	5548.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	464	464	464	464	464	
5°	464	552	465	412	464	44
15°	443	821	446	336	443	125
25°	405	974	406	296	405	187
35°	357	525	355	272	357	224
45°	296	283	288	231	296	227
55°	210	192	202	184	210	188
65°	130	125	124	130	130	129
75°	62	64	58	69	62	67
85°	14	15	11	14	14	16
90°	1	30	1	30	1	4
95°	62	38	62	38	62	74
105°	301	44	301	44	301	319
115°	565	594	565	594	565	558
125°	796	812	796	812	796	711
135°	991	1001	991	1001	991	763
145°	1143	1154	1143	1154	1143	716
155°	1259	1257	1259	1257	1259	580
165°	1328	1325	1328	1325	1328	375
175°	1359	1354	1359	1354	1359	129
180°	1359	1359	1359	1359	1359	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	465.5	469.1	470.9	473.6	476.3	480.4	481.7	484.0	483.1	484.9	485.8
5°	463.7	470.0	475.4	482.2	488.5	493.0	497.5	504.7	510.1	511.0	515.0
7.5°	460.6	469.6	479.0	488.5	500.6	507.8	515.9	525.8	533.9	547.0	551.9
10°	456.5	469.1	482.6	495.7	512.3	523.6	533.5	550.1	566.7	580.2	592.8
12.5°	450.2	466.0	483.5	502.9	524.5	537.5	551.0	573.0	598.2	618.9	632.4
15°	442.6	462.4	484.9	505.6	529.4	553.7	568.1	592.8	628.8	648.2	682.8
17.5°	436.3	456.5	479.0	511.4	543.8	568.1	578.4	623.9	648.6	681.0	720.1
20°	426.4	452.0	480.8	513.2	555.0	569.9	591.0	636.9	667.5	709.8	757.9
22.5°	416.1	443.5	478.1	511.9	558.6	574.4	603.2	639.6	688.2	730.0	783.1
25°	404.8	434.5	469.6	509.6	555.5	578.4	605.4	650.4	703.0	755.7	804.7
27.5°	393.6	426.0	462.4	502.4	547.0	573.9	600.9	647.7	715.2	772.3	834.8
30°	382.8	415.2	451.6	492.5	539.3	565.4	591.0	649.5	724.6	788.9	851.9
32.5°	371.1	404.4	442.6	476.8	524.0	551.9	580.7	649.5	730.5	798.8	856.4
35°	357.1	391.3	424.2	458.3	505.1	536.2	568.5	645.0	735.9	802.0	837.5
37.5°	343.6	373.8	402.1	435.4	484.4	517.7	555.0	639.6	733.2	788.5	798.4
40°	328.4	358.5	381.4	412.5	464.2	502.9	540.7	632.4	721.5	756.6	727.8
42.5°	313.5	337.3	357.1	387.3	443.5	481.3	522.2	619.4	698.5	705.7	641.0
45°	296.4	313.5	331.1	365.2	421.0	459.7	505.1	600.5	661.7	641.0	559.1
47.5°	274.4	289.7	309.0	340.5	397.2	437.2	480.4	576.2	608.1	564.9	475.4
50°	253.2	266.3	284.3	314.9	372.0	411.1	457.0	538.0	553.7	485.8	409.8
52.5°	232.1	242.0	259.5	290.1	347.2	385.0	426.9	498.8	489.8	417.0	349.5
55°	210.1	218.6	235.2	265.4	318.5	354.4	394.5	450.7	427.3	358.0	304.1
57.5°	188.5	197.5	214.6	239.7	289.7	324.8	356.7	400.8	365.7	310.4	262.7
60°	169.1	176.8	189.8	214.6	260.0	288.3	317.6	347.7	318.5	264.9	228.5
62.5°	148.9	156.1	168.2	190.7	229.8	255.0	278.4	303.2	270.8	231.6	199.3
65°	130.0	135.8	147.1	167.8	199.7	220.4	239.3	256.4	230.3	194.3	170.0
67.5°	112.9	117.8	127.3	145.7	172.7	187.6	202.9	217.3	195.2	166.4	145.7
70°	94.5	98.5	107.1	120.5	142.1	157.4	168.7	179.5	159.7	136.7	122.8
72.5°	78.3	82.3	87.7	101.7	116.5	125.9	138.1	143.9	132.7	113.8	99.9
75°	62.5	65.7	70.6	79.6	93.6	99.9	107.5	112.0	101.7	89.1	80.5
77.5°	49.0	50.4	54.0	60.3	69.7	76.9	82.8	85.5	78.3	70.2	63.0
80°	34.6	36.4	39.1	44.5	51.7	54.0	57.6	60.7	56.2	49.0	44.5
82.5°	22.9	25.2	26.5	28.8	33.3	36.0	36.9	39.6	35.5	32.8	31.0
85°	13.5	14.4	14.8	16.2	18.4	19.8	21.1	21.6	20.7	20.2	18.4
87.5°	6.7	6.7	6.7	7.6	8.1	9.0	9.4	9.4	9.4	9.0	8.5
90°	1.0	3.2	5.5	7.7	10.0	11.1	12.6	15.5	18.4	21.3	24.2
92.5°	23.2	21.9	20.5	19.2	17.9	17.2	18.2	20.2	22.3	24.3	26.3
95°	61.6	52.4	43.2	34.0	24.8	20.2	21.4	23.9	26.4	28.8	31.3
97.5°	112.1	105.8	99.5	93.2	86.9	83.8	78.1	66.6	55.2	43.7	32.3
100°	170.7	175.2	179.7	184.2	188.7	190.9	173.4	138.4	103.3	68.3	33.3
102.5°	237.3	240.2	243.2	246.1	249.0	250.5	231.0	191.9	152.8	113.8	74.7
105°	301.0	303.5	305.9	308.4	310.9	312.1	302.0	281.8	261.6	241.4	221.2
107.5°	368.6	370.6	372.6	374.7	376.7	377.7	379.4	382.8	386.1	389.5	392.9
110°	436.3	438.1	439.9	441.7	443.5	444.4	445.6	448.1	450.6	453.0	455.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	500.9	502.5	504.1	505.6	507.2	508.0	509.2	511.7	514.2	516.6	519.1
115°	564.6	565.9	567.3	568.6	569.9	570.6	571.6	573.6	575.7	577.7	579.7
117.5°	627.2	628.8	630.4	631.9	633.5	634.3	634.9	636.0	637.1	638.2	639.3
120°	684.8	686.8	688.8	690.8	692.8	693.8	694.1	694.8	695.5	696.2	696.9
122.5°	743.3	744.9	746.5	748.0	749.6	750.4	750.8	751.7	752.6	753.5	754.4
125°	795.9	797.7	799.5	801.2	803.0	803.9	804.4	805.3	806.2	807.1	808.0
127.5°	848.4	850.2	852.0	853.8	855.6	856.5	857.1	858.2	859.3	860.4	861.5
130°	896.8	898.6	900.4	902.2	904.0	904.9	905.4	906.3	907.2	908.1	909.0
132.5°	943.3	945.1	946.9	948.7	950.5	951.4	951.7	952.4	953.1	953.7	954.4
135°	990.8	992.1	993.5	994.8	996.1	996.8	997.3	998.2	999.1	1000.0	1000.9
137.5°	1031.2	1033.0	1034.8	1036.6	1038.4	1039.3	1039.5	1040.0	1040.4	1040.9	1041.3
140°	1071.6	1072.9	1074.3	1075.6	1076.9	1077.6	1077.9	1078.6	1079.3	1080.0	1080.7
142.5°	1108.9	1110.3	1111.6	1113.0	1114.3	1115.0	1115.3	1116.0	1116.7	1117.3	1118.0
145°	1143.3	1144.9	1146.5	1148.0	1149.6	1150.4	1150.6	1151.1	1151.5	1152.0	1152.4
147.5°	1176.6	1177.7	1178.9	1180.0	1181.1	1181.7	1181.9	1182.4	1182.8	1183.3	1183.7
150°	1206.9	1207.6	1208.2	1208.9	1209.6	1209.9	1210.1	1210.6	1211.1	1211.5	1212.0
152.5°	1234.2	1234.4	1234.6	1234.9	1235.1	1235.2	1235.3	1235.5	1235.8	1236.0	1236.2
155°	1259.4	1259.0	1258.5	1258.1	1257.6	1257.4	1257.5	1257.7	1258.0	1258.2	1258.4
157.5°	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.5	1279.3	1279.0	1278.8	1278.6
160°	1297.8	1297.6	1297.4	1297.1	1296.9	1296.8	1296.7	1296.5	1296.2	1296.0	1295.8
162.5°	1315.0	1314.3	1313.6	1312.9	1312.2	1311.9	1311.8	1311.6	1311.3	1311.1	1310.9
165°	1328.1	1327.4	1326.8	1326.1	1325.4	1325.1	1325.0	1324.8	1324.5	1324.3	1324.1
167.5°	1339.2	1338.3	1337.4	1336.5	1335.6	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2
170°	1348.3	1347.4	1346.5	1345.6	1344.7	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3
172.5°	1354.4	1353.3	1352.1	1351.0	1349.9	1349.3	1349.4	1349.6	1349.9	1350.1	1350.3
175°	1359.4	1358.3	1357.2	1356.1	1355.0	1354.4	1354.5	1354.7	1355.0	1355.2	1355.4
177.5°	1361.4	1360.3	1359.2	1358.1	1357.0	1356.4	1356.5	1356.7	1357.0	1357.2	1357.4
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	488.9	489.8	493.0	495.2	499.7	499.3	499.3	498.8	497.5	499.7	501.1
5°	523.1	530.8	531.7	541.6	542.0	546.1	548.8	546.5	551.9	551.5	547.4
7.5°	565.4	575.7	580.7	590.1	600.9	598.2	608.6	610.4	609.5	614.0	617.1
10°	611.7	629.7	642.3	659.9	664.3	667.0	673.8	679.6	691.3	682.3	688.2
12.5°	664.8	677.8	694.5	722.4	736.3	745.3	748.5	752.5	760.6	755.7	756.1
15°	709.3	726.9	755.2	789.8	793.9	805.1	802.4	826.7	838.4	820.9	830.8
17.5°	755.7	779.0	812.8	842.9	860.0	867.7	874.9	898.2	897.3	894.6	896.9
20°	785.3	823.6	865.4	905.4	910.4	916.2	935.6	945.5	943.7	951.3	956.3
22.5°	827.2	867.7	912.2	938.7	950.0	956.7	972.0	978.3	981.0	982.8	979.7
25°	862.3	905.4	938.3	961.7	968.4	972.0	977.0	978.8	977.4	974.3	977.0
27.5°	886.1	920.7	943.2	954.0	950.4	944.6	935.1	928.8	914.9	908.1	916.2
30°	896.0	911.3	918.0	900.0	882.1	867.7	849.7	816.4	790.3	797.9	787.6
32.5°	880.3	870.4	838.0	791.6	777.7	754.3	703.5	664.3	665.7	645.0	653.6
35°	833.9	788.9	727.8	657.6	639.2	626.6	570.8	562.2	544.3	524.9	530.3
37.5°	752.1	686.4	612.2	560.4	533.0	505.6	474.1	455.2	444.4	436.3	442.6
40°	652.2	572.1	511.0	464.6	441.3	423.7	402.1	383.2	371.1	369.7	372.0
42.5°	554.1	486.7	430.5	386.4	378.7	358.0	344.1	329.3	325.7	319.8	323.0
45°	469.1	414.3	367.9	331.9	323.0	317.6	300.5	291.0	287.0	283.4	288.8
47.5°	407.5	349.9	316.2	294.6	285.6	276.6	267.2	260.9	257.7	258.2	257.7
50°	348.1	305.9	276.2	259.5	254.1	247.8	240.2	236.1	234.8	230.7	233.9
52.5°	299.6	269.0	248.3	232.5	228.5	224.0	217.7	215.5	212.3	211.4	211.4
55°	260.4	236.6	220.0	209.6	204.7	201.1	197.5	194.8	192.5	192.5	192.5
57.5°	229.8	209.2	197.0	188.0	186.2	182.6	178.6	178.6	175.4	175.0	176.3
60°	203.8	185.3	175.9	168.2	165.5	164.6	160.6	160.6	159.7	157.4	159.2
62.5°	177.2	163.7	155.6	149.8	147.1	147.1	143.9	141.7	141.7	142.1	141.2
65°	152.9	143.0	135.8	131.3	130.0	128.2	127.7	125.9	124.6	125.0	124.6
67.5°	131.3	123.7	118.7	115.1	112.9	112.0	110.6	110.6	109.8	110.2	108.0
70°	112.0	104.4	100.3	96.7	95.8	95.8	94.0	94.5	93.6	94.9	94.0
72.5°	92.2	86.4	83.2	81.9	81.0	80.5	79.6	78.7	78.3	79.2	78.7
75°	74.7	69.7	67.5	66.6	65.7	65.7	65.2	64.8	64.3	64.3	64.3
77.5°	58.0	54.9	52.2	53.1	51.7	52.2	50.8	50.8	51.3	50.8	50.8
80°	42.7	40.5	40.5	39.6	37.8	38.7	38.7	37.3	36.9	37.8	36.4
82.5°	28.3	27.9	27.0	26.5	25.6	26.1	25.6	25.2	24.7	25.6	24.7
85°	16.6	16.6	16.2	15.3	16.2	15.7	15.3	15.3	14.8	14.8	14.8
87.5°	8.5	7.6	7.6	7.2	7.6	6.7	7.2	6.7	6.3	6.7	6.3
90°	25.1	26.0	26.9	27.8	28.3	28.5	29.0	29.4	29.9	30.3	29.9
92.5°	27.9	29.4	31.0	32.5	33.3	33.4	33.6	33.9	34.1	34.3	34.1
95°	32.9	34.5	36.0	37.6	38.4	38.4	38.4	38.4	38.4	38.4	38.4
97.5°	34.1	35.9	37.7	39.5	40.4	40.5	40.7	41.0	41.2	41.4	41.2
100°	35.1	36.9	38.7	40.5	41.4	41.5	41.7	42.0	42.2	42.4	42.2
102.5°	67.3	59.9	52.5	45.1	41.4	41.6	42.1	42.5	43.0	43.4	43.0
105°	181.5	141.7	102.0	62.3	42.4	42.6	43.1	43.5	44.0	44.4	44.0
107.5°	358.3	323.7	289.2	254.6	237.3	222.6	193.2	163.8	134.4	105.0	134.4
110°	448.1	440.7	433.3	425.9	422.2	406.1	374.0	341.9	309.8	277.7	309.8

TEST NUMBER: P1030790

CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	521.1	523.1	525.2	527.2	528.2	528.0	527.5	527.1	526.6	526.2	526.6
115°	581.9	584.2	586.4	588.7	589.8	590.3	591.2	592.1	593.0	593.9	593.0
117.5°	641.1	642.9	644.7	646.5	647.4	647.5	647.7	648.0	648.2	648.4	648.2
120°	698.7	700.5	702.3	704.1	705.0	705.0	705.0	705.0	705.0	705.0	705.0
122.5°	755.5	756.7	757.8	758.9	759.5	759.6	759.8	760.1	760.3	760.5	760.3
125°	808.4	808.9	809.3	809.8	810.0	810.2	810.7	811.1	811.6	812.0	811.6
127.5°	862.2	862.8	863.5	864.2	864.5	864.3	863.8	863.4	862.9	862.5	862.9
130°	909.9	910.8	911.7	912.6	913.0	912.8	912.3	911.9	911.4	911.0	911.4
132.5°	955.3	956.2	957.1	958.0	958.5	958.2	957.5	956.8	956.1	955.4	956.1
135°	1001.6	1002.2	1002.9	1003.6	1003.9	1003.6	1002.9	1002.2	1001.6	1000.9	1001.6
137.5°	1042.4	1043.5	1044.6	1045.7	1046.3	1046.1	1045.6	1045.2	1044.7	1044.3	1044.7
140°	1081.6	1082.5	1083.4	1084.3	1084.7	1084.5	1084.0	1083.6	1083.1	1082.7	1083.1
142.5°	1118.7	1119.4	1120.1	1120.8	1121.1	1120.8	1120.1	1119.4	1118.7	1118.0	1118.7
145°	1152.8	1153.3	1153.7	1154.2	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
147.5°	1184.1	1184.6	1185.0	1185.5	1185.7	1185.1	1184.0	1182.9	1181.7	1180.6	1181.7
150°	1212.4	1212.9	1213.3	1213.8	1214.0	1213.7	1213.0	1212.3	1211.6	1210.9	1211.6
152.5°	1237.1	1238.0	1238.9	1239.8	1240.2	1239.6	1238.5	1237.4	1236.3	1235.2	1236.3
155°	1259.5	1260.7	1261.8	1262.9	1263.5	1262.8	1261.5	1260.1	1258.8	1257.4	1258.8
157.5°	1280.0	1281.3	1282.7	1284.0	1284.7	1283.8	1282.0	1280.2	1278.4	1276.6	1278.4
160°	1297.1	1298.5	1299.8	1301.1	1301.8	1301.0	1299.5	1297.9	1296.4	1294.8	1296.4
162.5°	1312.5	1314.1	1315.6	1317.2	1318.0	1317.3	1316.0	1314.6	1313.3	1311.9	1313.3
165°	1325.9	1327.7	1329.4	1331.2	1332.1	1331.3	1329.8	1328.2	1326.7	1325.1	1326.7
167.5°	1337.0	1338.8	1340.6	1342.4	1343.3	1342.4	1340.6	1338.8	1337.0	1335.2	1337.0
170°	1346.1	1347.9	1349.6	1351.4	1352.3	1351.4	1349.6	1347.9	1346.1	1344.3	1346.1
172.5°	1352.1	1353.9	1355.7	1357.5	1358.4	1357.4	1355.4	1353.3	1351.3	1349.3	1351.3
175°	1357.0	1358.5	1360.1	1361.6	1362.4	1361.5	1359.7	1358.0	1356.2	1354.4	1356.2
177.5°	1359.2	1361.0	1362.8	1364.6	1365.5	1364.4	1362.1	1359.9	1357.6	1355.4	1357.6
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

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CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	497.5	498.8	495.2	494.3	494.3	496.1	494.8	482.6	484.9	482.2	481.3
5°	552.4	549.7	546.1	544.3	542.0	535.7	535.3	521.3	518.6	509.6	505.6
7.5°	612.6	610.4	599.6	598.2	597.3	591.5	576.6	561.8	551.0	540.7	530.8
10°	681.4	674.7	669.7	659.9	654.9	646.8	627.5	613.5	595.1	579.3	558.6
12.5°	764.2	756.6	739.9	732.7	726.4	703.9	684.6	668.8	632.9	622.1	596.4
15°	824.9	808.7	806.9	791.2	790.3	765.6	728.7	711.6	683.7	644.1	617.6
17.5°	890.6	876.2	865.0	846.1	843.4	820.0	793.0	751.2	720.6	682.8	649.1
20°	938.7	931.1	911.7	904.1	888.3	868.6	840.7	788.9	751.6	713.8	672.4
22.5°	977.0	969.3	954.0	943.7	934.7	909.0	875.8	831.7	780.4	730.9	688.2
25°	976.5	974.3	968.0	963.0	956.3	937.4	909.5	867.2	810.1	755.7	696.3
27.5°	921.2	927.5	938.3	943.7	942.3	939.6	923.9	888.3	837.1	772.3	705.7
30°	806.0	829.0	849.2	876.2	884.3	904.1	913.1	892.8	851.9	791.6	717.9
32.5°	668.4	701.7	745.8	760.6	786.2	824.5	867.2	874.9	849.2	802.9	725.5
35°	548.3	575.7	609.9	633.3	656.3	718.3	772.3	819.1	827.6	797.0	723.7
37.5°	453.8	473.2	503.3	523.1	544.3	597.3	672.9	733.6	776.3	777.2	718.8
40°	385.5	394.0	420.1	434.5	454.7	500.6	568.1	647.3	709.8	738.6	705.7
42.5°	326.6	337.8	359.4	370.2	383.2	423.3	467.8	542.9	620.3	681.9	681.4
45°	291.5	299.6	309.5	318.5	333.3	357.1	408.0	464.2	538.4	608.1	635.6
47.5°	260.4	268.1	278.0	280.7	290.6	313.1	344.1	393.1	462.4	531.7	583.4
50°	234.3	240.6	247.4	252.3	256.8	275.3	298.7	340.0	395.4	462.4	526.7
52.5°	214.1	218.6	224.4	227.1	231.2	244.7	262.7	293.3	338.7	399.9	462.4
55°	195.2	198.4	202.0	206.5	208.3	218.2	232.1	258.2	291.9	346.8	406.2
57.5°	177.7	179.0	181.3	184.0	186.2	194.8	206.9	224.4	254.1	296.4	352.6
60°	157.9	161.5	162.8	165.5	166.9	173.6	183.1	197.9	220.9	257.3	299.6
62.5°	141.2	143.5	145.7	147.1	150.2	152.5	160.1	173.6	192.5	219.5	257.7
65°	126.4	127.3	128.6	130.0	130.9	133.6	140.8	149.8	164.2	188.0	217.7
67.5°	109.3	110.2	112.0	112.4	113.3	116.9	121.0	128.6	140.8	158.8	183.1
70°	92.7	94.0	94.9	95.8	97.2	98.5	103.0	109.3	118.7	131.3	150.2
72.5°	78.3	79.6	79.6	80.5	80.1	81.9	86.4	90.9	97.2	107.5	124.1
75°	63.9	63.9	64.8	65.2	65.7	67.5	69.3	72.9	77.8	85.9	96.3
77.5°	50.4	49.9	50.8	50.8	50.8	52.2	54.0	55.8	58.9	64.8	72.9
80°	36.9	36.9	37.8	38.2	37.3	37.8	38.7	40.5	42.7	46.8	51.3
82.5°	24.3	26.1	25.6	26.1	25.6	26.5	27.0	27.4	28.3	30.1	33.3
85°	14.8	14.8	14.8	15.3	14.8	15.3	15.3	15.3	15.7	16.6	18.0
87.5°	6.3	6.3	6.3	6.7	6.3	6.3	6.7	6.3	6.7	6.7	7.2
90°	29.4	29.0	28.5	28.3	27.8	26.9	26.0	25.1	24.2	21.3	18.4
92.5°	33.9	33.6	33.4	33.3	32.5	31.0	29.4	27.9	26.3	24.3	22.3
95°	38.4	38.4	38.4	38.4	37.6	36.0	34.5	32.9	31.3	28.8	26.4
97.5°	41.0	40.7	40.5	40.4	39.5	37.7	35.9	34.1	32.3	43.7	55.2
100°	42.0	41.7	41.5	41.4	40.5	38.7	36.9	35.1	33.3	68.3	103.3
102.5°	42.5	42.1	41.6	41.4	45.1	52.5	59.9	67.3	74.7	113.8	152.8
105°	43.5	43.1	42.6	42.4	62.3	102.0	141.7	181.5	221.2	241.4	261.6
107.5°	163.8	193.2	222.6	237.3	254.6	289.2	323.7	358.3	392.9	389.5	386.1
110°	341.9	374.0	406.1	422.2	425.9	433.3	440.7	448.1	455.5	453.0	450.6

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CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	527.1	527.5	528.0	528.2	527.2	525.2	523.1	521.1	519.1	516.6	514.2
115°	592.1	591.2	590.3	589.8	588.7	586.4	584.2	581.9	579.7	577.7	575.7
117.5°	648.0	647.7	647.5	647.4	646.5	644.7	642.9	641.1	639.3	638.2	637.1
120°	705.0	705.0	705.0	705.0	704.1	702.3	700.5	698.7	696.9	696.2	695.5
122.5°	760.1	759.8	759.6	759.5	758.9	757.8	756.7	755.5	754.4	753.5	752.6
125°	811.1	810.7	810.2	810.0	809.8	809.3	808.9	808.4	808.0	807.1	806.2
127.5°	863.4	863.8	864.3	864.5	864.2	863.5	862.8	862.2	861.5	860.4	859.3
130°	911.9	912.3	912.8	913.0	912.6	911.7	910.8	909.9	909.0	908.1	907.2
132.5°	956.8	957.5	958.2	958.5	958.0	957.1	956.2	955.3	954.4	953.7	953.1
135°	1002.2	1002.9	1003.6	1003.9	1003.6	1002.9	1002.2	1001.6	1000.9	1000.0	999.1
137.5°	1045.2	1045.6	1046.1	1046.3	1045.7	1044.6	1043.5	1042.4	1041.3	1040.9	1040.4
140°	1083.6	1084.0	1084.5	1084.7	1084.3	1083.4	1082.5	1081.6	1080.7	1080.0	1079.3
142.5°	1119.4	1120.1	1120.8	1121.1	1120.8	1120.1	1119.4	1118.7	1118.0	1117.3	1116.7
145°	1154.4	1154.4	1154.4	1154.4	1154.2	1153.7	1153.3	1152.8	1152.4	1152.0	1151.5
147.5°	1182.9	1184.0	1185.1	1185.7	1185.5	1185.0	1184.6	1184.1	1183.7	1183.3	1182.8
150°	1212.3	1213.0	1213.7	1214.0	1213.8	1213.3	1212.9	1212.4	1212.0	1211.5	1211.1
152.5°	1237.4	1238.5	1239.6	1240.2	1239.8	1238.9	1238.0	1237.1	1236.2	1236.0	1235.8
155°	1260.1	1261.5	1262.8	1263.5	1262.9	1261.8	1260.7	1259.5	1258.4	1258.2	1258.0
157.5°	1280.2	1282.0	1283.8	1284.7	1284.0	1282.7	1281.3	1280.0	1278.6	1278.8	1279.0
160°	1297.9	1299.5	1301.0	1301.8	1301.1	1299.8	1298.5	1297.1	1295.8	1296.0	1296.2
162.5°	1314.6	1316.0	1317.3	1318.0	1317.2	1315.6	1314.1	1312.5	1310.9	1311.1	1311.3
165°	1328.2	1329.8	1331.3	1332.1	1331.2	1329.4	1327.7	1325.9	1324.1	1324.3	1324.5
167.5°	1338.8	1340.6	1342.4	1343.3	1342.4	1340.6	1338.8	1337.0	1335.2	1335.2	1335.2
170°	1347.9	1349.6	1351.4	1352.3	1351.4	1349.6	1347.9	1346.1	1344.3	1344.3	1344.3
172.5°	1353.3	1355.4	1357.4	1358.4	1357.5	1355.7	1353.9	1352.1	1350.3	1350.1	1349.9
175°	1358.0	1359.7	1361.5	1362.4	1361.6	1360.1	1358.5	1357.0	1355.4	1355.2	1355.0
177.5°	1359.9	1362.1	1364.4	1365.5	1364.6	1362.8	1361.0	1359.2	1357.4	1357.2	1357.0
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

TEST NUMBER: P1030790

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	476.8	475.4	475.4	474.5	471.8	466.9	466.4	467.3	464.6	461.9	457.9
5°	500.2	491.6	488.9	486.2	480.8	471.8	468.2	465.1	460.1	454.3	448.0
7.5°	520.0	507.8	504.2	499.3	488.5	475.9	467.8	461.0	454.3	446.2	438.6
10°	544.7	527.2	518.6	511.4	496.6	479.0	466.9	457.0	446.2	436.3	426.4
12.5°	572.6	544.3	541.6	524.0	506.9	480.8	466.0	451.6	437.2	425.1	414.7
15°	596.0	564.9	553.7	542.0	509.2	476.8	462.4	446.2	429.6	416.5	401.2
17.5°	610.8	585.2	561.3	545.6	511.4	482.6	454.7	436.3	418.8	400.8	388.2
20°	628.8	591.5	570.8	549.7	515.9	478.1	450.2	427.3	405.7	389.5	374.2
22.5°	646.8	596.4	579.3	556.4	516.8	473.6	442.1	419.2	394.5	378.3	361.6
25°	645.0	603.6	575.3	555.9	507.8	469.6	432.7	405.7	382.8	362.1	345.4
27.5°	646.4	595.5	566.7	544.3	501.5	463.7	422.8	394.5	370.6	349.0	331.5
30°	646.8	583.4	558.2	531.2	489.8	449.8	411.6	382.8	357.6	334.2	318.5
32.5°	645.5	573.5	542.0	517.7	471.4	436.3	398.5	367.9	342.3	320.7	305.9
35°	642.3	561.8	525.4	494.8	452.5	417.0	386.4	354.9	327.5	307.7	290.6
37.5°	633.8	549.2	507.8	477.7	430.5	394.5	367.5	341.4	314.9	291.5	277.1
40°	627.5	532.1	490.3	457.4	406.6	371.5	349.0	324.3	298.2	277.1	263.1
42.5°	613.1	515.9	472.3	433.2	383.2	347.2	326.1	306.3	283.8	263.1	250.5
45°	589.7	498.4	450.2	410.7	357.6	323.4	304.1	287.9	268.1	248.3	235.7
47.5°	556.8	473.2	426.9	387.3	332.4	297.8	278.4	266.3	250.5	233.9	223.1
50°	521.3	445.7	403.0	363.9	308.1	274.4	255.5	244.2	233.9	218.6	208.3
52.5°	475.0	416.5	375.6	338.2	282.0	249.6	233.0	224.9	214.1	203.3	194.3
55°	430.0	378.7	345.0	309.5	256.4	226.2	210.1	201.5	195.2	186.2	179.0
57.5°	377.8	343.6	312.6	280.2	232.5	205.1	189.8	179.5	175.4	171.4	164.6
60°	329.7	303.6	278.4	251.4	207.8	183.1	168.2	160.1	156.1	153.4	148.9
62.5°	285.6	265.4	243.8	222.2	182.6	160.1	148.9	140.8	137.2	136.7	132.7
65°	243.3	228.9	211.4	190.3	159.2	139.4	128.6	123.7	119.6	119.6	116.5
67.5°	201.1	191.2	177.2	162.4	138.1	119.6	109.8	105.3	103.0	103.0	100.8
70°	167.3	160.6	148.0	134.9	113.8	99.9	92.2	88.2	86.8	87.3	85.5
72.5°	135.8	128.6	118.3	108.9	93.1	82.8	77.4	72.9	70.6	71.1	70.6
75°	105.3	101.7	92.7	85.5	72.9	65.7	60.7	58.5	56.7	57.1	56.2
77.5°	79.2	73.8	68.8	63.9	56.2	50.4	46.3	44.1	42.7	42.7	42.7
80°	54.0	53.1	49.0	46.3	40.0	35.5	32.4	31.9	30.6	30.6	30.6
82.5°	35.1	32.8	30.6	28.8	25.2	22.5	21.1	20.2	19.8	19.3	20.2
85°	19.3	18.0	17.1	15.3	13.9	12.6	11.2	10.8	10.3	10.8	10.3
87.5°	7.6	6.3	6.3	5.8	5.4	4.9	4.9	4.0	4.0	3.6	3.6
90°	15.5	12.6	11.1	10.0	7.7	5.5	3.2	1.0	3.2	5.5	7.7
92.5°	20.2	18.2	17.2	17.9	19.2	20.5	21.9	23.2	21.9	20.5	19.2
95°	23.9	21.4	20.2	24.8	34.0	43.2	52.4	61.6	52.4	43.2	34.0
97.5°	66.6	78.1	83.8	86.9	93.2	99.5	105.8	112.1	105.8	99.5	93.2
100°	138.4	173.4	190.9	188.7	184.2	179.7	175.2	170.7	175.2	179.7	184.2
102.5°	191.9	231.0	250.5	249.0	246.1	243.2	240.2	237.3	240.2	243.2	246.1
105°	281.8	302.0	312.1	310.9	308.4	305.9	303.5	301.0	303.5	305.9	308.4
107.5°	382.8	379.4	377.7	376.7	374.7	372.6	370.6	368.6	370.6	372.6	374.7
110°	448.1	445.6	444.4	443.5	441.7	439.9	438.1	436.3	438.1	439.9	441.7

TEST NUMBER: P1030790

CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	511.7	509.2	508.0	507.2	505.6	504.1	502.5	500.9	502.5	504.1	505.6
115°	573.6	571.6	570.6	569.9	568.6	567.3	565.9	564.6	565.9	567.3	568.6
117.5°	636.0	634.9	634.3	633.5	631.9	630.4	628.8	627.2	628.8	630.4	631.9
120°	694.8	694.1	693.8	692.8	690.8	688.8	686.8	684.8	686.8	688.8	690.8
122.5°	751.7	750.8	750.4	749.6	748.0	746.5	744.9	743.3	744.9	746.5	748.0
125°	805.3	804.4	803.9	803.0	801.2	799.5	797.7	795.9	797.7	799.5	801.2
127.5°	858.2	857.1	856.5	855.6	853.8	852.0	850.2	848.4	850.2	852.0	853.8
130°	906.3	905.4	904.9	904.0	902.2	900.4	898.6	896.8	898.6	900.4	902.2
132.5°	952.4	951.7	951.4	950.5	948.7	946.9	945.1	943.3	945.1	946.9	948.7
135°	998.2	997.3	996.8	996.1	994.8	993.5	992.1	990.8	992.1	993.5	994.8
137.5°	1040.0	1039.5	1039.3	1038.4	1036.6	1034.8	1033.0	1031.2	1033.0	1034.8	1036.6
140°	1078.6	1077.9	1077.6	1076.9	1075.6	1074.3	1072.9	1071.6	1072.9	1074.3	1075.6
142.5°	1116.0	1115.3	1115.0	1114.3	1113.0	1111.6	1110.3	1108.9	1110.3	1111.6	1113.0
145°	1151.1	1150.6	1150.4	1149.6	1148.0	1146.5	1144.9	1143.3	1144.9	1146.5	1148.0
147.5°	1182.4	1181.9	1181.7	1181.1	1180.0	1178.9	1177.7	1176.6	1177.7	1178.9	1180.0
150°	1210.6	1210.1	1209.9	1209.6	1208.9	1208.2	1207.6	1206.9	1207.6	1208.2	1208.9
152.5°	1235.5	1235.3	1235.2	1235.1	1234.9	1234.6	1234.4	1234.2	1234.4	1234.6	1234.9
155°	1257.7	1257.5	1257.4	1257.6	1258.1	1258.5	1259.0	1259.4	1259.0	1258.5	1258.1
157.5°	1279.3	1279.5	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6	1279.6
160°	1296.5	1296.7	1296.8	1296.9	1297.1	1297.4	1297.6	1297.8	1297.6	1297.4	1297.1
162.5°	1311.6	1311.8	1311.9	1312.2	1312.9	1313.6	1314.3	1315.0	1314.3	1313.6	1312.9
165°	1324.8	1325.0	1325.1	1325.4	1326.1	1326.8	1327.4	1328.1	1327.4	1326.8	1326.1
167.5°	1335.2	1335.2	1335.2	1335.6	1336.5	1337.4	1338.3	1339.2	1338.3	1337.4	1336.5
170°	1344.3	1344.3	1344.3	1344.7	1345.6	1346.5	1347.4	1348.3	1347.4	1346.5	1345.6
172.5°	1349.6	1349.4	1349.3	1349.9	1351.0	1352.1	1353.3	1354.4	1353.3	1352.1	1351.0
175°	1354.7	1354.5	1354.4	1355.0	1356.1	1357.2	1358.3	1359.4	1358.3	1357.2	1356.1
177.5°	1356.7	1356.5	1356.4	1357.0	1358.1	1359.2	1360.3	1361.4	1360.3	1359.2	1358.1
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

TEST NUMBER: P1030790

CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	457.0	456.5	457.4	454.7	450.2	448.0	441.7	440.4	439.9	440.4	440.8
5°	444.4	443.9	442.6	438.1	432.7	428.7	421.0	420.6	417.9	415.2	416.5
7.5°	432.3	430.5	427.8	421.9	414.7	410.2	403.9	399.4	395.8	393.6	391.8
10°	420.1	417.4	414.7	407.1	398.1	391.3	383.7	380.1	376.0	374.2	372.4
12.5°	404.4	401.7	396.7	387.7	382.3	373.8	366.1	362.5	360.3	356.7	354.4
15°	391.8	386.4	383.7	374.2	363.0	362.1	348.1	347.2	342.7	342.7	339.1
17.5°	377.4	373.3	368.4	358.9	350.8	342.7	335.5	332.8	328.8	327.9	326.1
20°	363.4	358.0	356.2	346.8	338.2	328.4	320.7	318.0	316.2	314.4	315.8
22.5°	349.0	344.5	340.0	331.5	325.2	315.3	310.8	308.1	305.4	304.5	305.0
25°	335.1	331.1	326.6	318.0	311.3	303.2	299.1	297.8	296.4	296.4	296.0
27.5°	321.6	317.6	313.5	305.9	299.1	293.3	290.1	288.8	287.4	288.3	289.2
30°	307.7	304.1	300.5	293.7	288.3	282.9	281.1	280.2	279.8	282.0	282.0
32.5°	295.1	291.9	289.2	282.9	277.5	273.0	271.7	272.1	272.6	273.9	274.8
35°	282.0	279.8	277.1	271.7	267.2	263.1	263.6	263.6	264.5	266.7	268.5
37.5°	270.3	267.2	264.9	260.4	256.8	253.2	254.6	255.9	256.8	259.5	260.4
40°	256.4	255.0	253.2	248.7	245.6	245.1	245.6	246.5	248.3	249.6	251.0
42.5°	245.1	243.3	241.1	237.5	234.8	235.2	235.7	236.6	237.5	239.7	241.1
45°	232.5	231.2	229.4	226.2	224.0	224.4	224.9	224.9	225.8	228.5	229.4
47.5°	218.6	219.1	216.8	213.7	212.3	212.3	212.3	213.2	215.5	216.4	216.8
50°	205.1	204.2	203.8	200.6	199.7	199.3	199.7	200.2	203.3	202.9	204.2
52.5°	190.7	190.7	190.3	188.5	187.1	187.1	186.2	188.5	189.4	190.3	191.6
55°	176.8	175.4	175.0	174.1	172.3	171.8	172.7	175.4	176.3	177.2	178.6
57.5°	161.5	161.5	160.6	159.2	159.2	159.2	159.2	161.0	162.4	163.3	166.0
60°	147.5	145.7	144.4	144.4	144.4	143.9	146.6	146.6	149.3	149.8	150.7
62.5°	130.9	130.0	129.1	129.5	129.1	130.0	130.9	132.7	133.1	134.5	135.8
65°	115.1	115.1	114.2	116.9	115.1	115.1	117.4	117.4	118.3	119.6	121.4
67.5°	99.9	100.3	99.4	99.4	100.3	100.8	101.2	103.0	103.5	105.3	107.5
70°	84.1	85.0	85.5	84.6	85.5	86.4	87.3	87.7	89.5	90.4	91.8
72.5°	70.2	71.1	69.7	70.2	70.6	71.5	72.0	72.9	73.8	76.5	77.4
75°	56.2	55.8	55.3	57.1	56.2	58.0	58.5	58.5	59.4	61.6	62.5
77.5°	43.2	43.2	43.6	42.7	44.1	43.6	44.1	45.4	46.8	46.8	50.4
80°	30.1	31.0	31.0	31.0	31.5	31.9	31.0	33.3	33.7	33.7	35.1
82.5°	19.3	19.8	19.3	20.2	20.2	21.1	20.7	21.1	22.0	22.9	23.4
85°	10.3	10.3	11.2	11.2	10.8	11.2	10.8	11.2	12.1	12.1	12.6
87.5°	3.6	3.6	3.6	3.6	4.0	3.6	4.0	4.0	3.6	3.6	4.9
90°	10.0	11.1	12.6	15.5	18.4	21.3	24.2	25.1	26.0	26.9	27.8
92.5°	17.9	17.2	18.2	20.2	22.3	24.3	26.3	27.9	29.4	31.0	32.5
95°	24.8	20.2	21.4	23.9	26.4	28.8	31.3	32.9	34.5	36.0	37.6
97.5°	86.9	83.8	78.1	66.6	55.2	43.7	32.3	34.1	35.9	37.7	39.5
100°	188.7	190.9	173.4	138.4	103.3	68.3	33.3	35.1	36.9	38.7	40.5
102.5°	249.0	250.5	231.0	191.9	152.8	113.8	74.7	67.3	59.9	52.5	45.1
105°	310.9	312.1	302.0	281.8	261.6	241.4	221.2	181.5	141.7	102.0	62.3
107.5°	376.7	377.7	379.4	382.8	386.1	389.5	392.9	358.3	323.7	289.2	254.6
110°	443.5	444.4	445.6	448.1	450.6	453.0	455.5	448.1	440.7	433.3	425.9

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	507.2	508.0	509.2	511.7	514.2	516.6	519.1	521.1	523.1	525.2	527.2
115°	569.9	570.6	571.6	573.6	575.7	577.7	579.7	581.9	584.2	586.4	588.7
117.5°	633.5	634.3	634.9	636.0	637.1	638.2	639.3	641.1	642.9	644.7	646.5
120°	692.8	693.8	694.1	694.8	695.5	696.2	696.9	698.7	700.5	702.3	704.1
122.5°	749.6	750.4	750.8	751.7	752.6	753.5	754.4	755.5	756.7	757.8	758.9
125°	803.0	803.9	804.4	805.3	806.2	807.1	808.0	808.4	808.9	809.3	809.8
127.5°	855.6	856.5	857.1	858.2	859.3	860.4	861.5	862.2	862.8	863.5	864.2
130°	904.0	904.9	905.4	906.3	907.2	908.1	909.0	909.9	910.8	911.7	912.6
132.5°	950.5	951.4	951.7	952.4	953.1	953.7	954.4	955.3	956.2	957.1	958.0
135°	996.1	996.8	997.3	998.2	999.1	1000.0	1000.9	1001.6	1002.2	1002.9	1003.6
137.5°	1038.4	1039.3	1039.5	1040.0	1040.4	1040.9	1041.3	1042.4	1043.5	1044.6	1045.7
140°	1076.9	1077.6	1077.9	1078.6	1079.3	1080.0	1080.7	1081.6	1082.5	1083.4	1084.3
142.5°	1114.3	1115.0	1115.3	1116.0	1116.7	1117.3	1118.0	1118.7	1119.4	1120.1	1120.8
145°	1149.6	1150.4	1150.6	1151.1	1151.5	1152.0	1152.4	1152.8	1153.3	1153.7	1154.2
147.5°	1181.1	1181.7	1181.9	1182.4	1182.8	1183.3	1183.7	1184.1	1184.6	1185.0	1185.5
150°	1209.6	1209.9	1210.1	1210.6	1211.1	1211.5	1212.0	1212.4	1212.9	1213.3	1213.8
152.5°	1235.1	1235.2	1235.3	1235.5	1235.8	1236.0	1236.2	1237.1	1238.0	1238.9	1239.8
155°	1257.6	1257.4	1257.5	1257.7	1258.0	1258.2	1258.4	1259.5	1260.7	1261.8	1262.9
157.5°	1279.6	1279.6	1279.5	1279.3	1279.0	1278.8	1278.6	1280.0	1281.3	1282.7	1284.0
160°	1296.9	1296.8	1296.7	1296.5	1296.2	1296.0	1295.8	1297.1	1298.5	1299.8	1301.1
162.5°	1312.2	1311.9	1311.8	1311.6	1311.3	1311.1	1310.9	1312.5	1314.1	1315.6	1317.2
165°	1325.4	1325.1	1325.0	1324.8	1324.5	1324.3	1324.1	1325.9	1327.7	1329.4	1331.2
167.5°	1335.6	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1337.0	1338.8	1340.6	1342.4
170°	1344.7	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1346.1	1347.9	1349.6	1351.4
172.5°	1349.9	1349.3	1349.4	1349.6	1349.9	1350.1	1350.3	1352.1	1353.9	1355.7	1357.5
175°	1355.0	1354.4	1354.5	1354.7	1355.0	1355.2	1355.4	1357.0	1358.5	1360.1	1361.6
177.5°	1357.0	1356.4	1356.5	1356.7	1357.0	1357.2	1357.4	1359.2	1361.0	1362.8	1364.6
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	440.4	440.8	439.0	437.7	441.3	439.0	439.0	439.5	438.6	439.9	439.5
5°	415.6	416.1	412.9	413.8	412.0	411.6	411.1	413.8	413.4	412.9	413.8
7.5°	391.3	391.3	390.0	389.1	389.1	387.7	389.5	389.1	390.0	390.0	391.3
10°	371.1	372.0	369.7	367.5	367.0	367.5	367.5	367.9	368.4	371.5	371.1
12.5°	354.4	353.1	352.6	351.3	349.0	348.1	347.2	352.2	350.8	350.8	350.8
15°	336.0	339.1	338.7	334.6	333.7	335.5	334.6	334.6	339.1	338.7	338.2
17.5°	326.1	325.2	324.3	322.1	322.5	322.1	322.5	322.5	325.2	325.2	325.2
20°	314.9	313.1	313.1	312.2	312.2	310.8	312.6	313.1	314.9	314.9	315.3
22.5°	305.0	303.6	303.6	303.2	304.1	302.3	304.1	304.5	304.5	305.9	305.9
25°	296.4	295.5	295.5	296.4	296.4	296.4	296.4	298.2	296.9	297.3	296.9
27.5°	288.8	289.2	289.7	290.1	289.7	290.1	290.6	291.5	291.9	291.5	290.6
30°	281.6	282.9	283.4	283.4	284.3	284.7	285.2	285.2	285.6	284.3	285.2
32.5°	276.2	276.2	277.1	277.5	278.4	278.9	278.9	279.8	279.3	278.0	278.4
35°	268.5	268.5	270.3	271.2	272.6	272.1	272.6	272.6	273.0	272.1	270.8
37.5°	260.9	261.8	261.8	263.6	264.0	264.5	264.0	264.9	264.5	263.6	263.1
40°	251.9	251.4	251.9	253.2	253.7	253.7	253.7	254.6	254.6	254.6	254.1
42.5°	240.6	242.0	241.5	242.9	242.4	242.4	243.3	244.2	244.7	243.3	243.8
45°	229.8	229.8	230.7	230.7	231.2	231.2	233.0	232.1	233.0	232.1	232.5
47.5°	218.2	218.6	218.6	219.1	220.0	220.9	220.0	220.4	220.4	220.9	220.0
50°	205.1	205.1	206.0	207.4	209.2	208.3	207.8	209.6	208.3	208.3	207.4
52.5°	191.6	193.0	193.4	194.8	196.1	196.6	197.0	196.1	196.6	195.2	195.7
55°	178.6	179.0	180.8	182.2	183.5	183.5	183.1	183.5	184.0	182.2	182.2
57.5°	165.5	166.9	168.7	168.7	170.5	170.5	170.0	170.0	170.5	169.1	168.7
60°	151.6	152.9	155.2	155.2	157.9	158.3	157.4	156.5	156.5	155.2	155.6
62.5°	136.7	138.1	139.4	141.7	143.5	142.6	144.4	142.6	143.0	140.3	140.3
65°	123.7	124.1	126.4	128.6	128.6	129.5	128.6	129.1	127.7	127.7	125.9
67.5°	108.4	108.4	110.6	112.9	115.1	115.1	115.1	113.8	113.8	112.4	112.4
70°	94.9	94.5	96.7	98.1	99.4	99.9	99.0	98.5	97.6	96.3	95.8
72.5°	78.3	79.2	81.4	82.3	84.6	84.1	86.4	83.7	83.7	81.4	81.0
75°	63.4	64.3	66.6	67.9	69.3	69.3	70.6	69.3	67.5	66.6	66.1
77.5°	50.4	49.9	51.7	54.0	54.4	54.0	54.9	54.4	52.6	52.6	51.7
80°	36.0	37.3	39.1	38.7	40.5	40.0	40.0	39.1	39.1	37.8	38.7
82.5°	23.8	25.2	25.6	25.2	25.6	26.5	27.0	26.5	26.5	25.6	26.1
85°	12.6	12.6	13.5	13.9	13.5	13.5	13.9	15.3	14.4	13.5	14.4
87.5°	4.0	3.6	3.6	4.0	3.6	3.6	4.0	4.0	4.5	4.5	4.5
90°	28.3	28.5	29.0	29.4	29.9	30.3	29.9	29.4	29.0	28.5	28.3
92.5°	33.3	33.4	33.6	33.9	34.1	34.3	34.1	33.9	33.6	33.4	33.3
95°	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
97.5°	40.4	40.5	40.7	41.0	41.2	41.4	41.2	41.0	40.7	40.5	40.4
100°	41.4	41.5	41.7	42.0	42.2	42.4	42.2	42.0	41.7	41.5	41.4
102.5°	41.4	41.6	42.1	42.5	43.0	43.4	43.0	42.5	42.1	41.6	41.4
105°	42.4	42.6	43.1	43.5	44.0	44.4	44.0	43.5	43.1	42.6	42.4
107.5°	237.3	222.6	193.2	163.8	134.4	105.0	134.4	163.8	193.2	222.6	237.3
110°	422.2	406.1	374.0	341.9	309.8	277.7	309.8	341.9	374.0	406.1	422.2

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CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	528.2	528.0	527.5	527.1	526.6	526.2	526.6	527.1	527.5	528.0	528.2
115°	589.8	590.3	591.2	592.1	593.0	593.9	593.0	592.1	591.2	590.3	589.8
117.5°	647.4	647.5	647.7	648.0	648.2	648.4	648.2	648.0	647.7	647.5	647.4
120°	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0	705.0
122.5°	759.5	759.6	759.8	760.1	760.3	760.5	760.3	760.1	759.8	759.6	759.5
125°	810.0	810.2	810.7	811.1	811.6	812.0	811.6	811.1	810.7	810.2	810.0
127.5°	864.5	864.3	863.8	863.4	862.9	862.5	862.9	863.4	863.8	864.3	864.5
130°	913.0	912.8	912.3	911.9	911.4	911.0	911.4	911.9	912.3	912.8	913.0
132.5°	958.5	958.2	957.5	956.8	956.1	955.4	956.1	956.8	957.5	958.2	958.5
135°	1003.9	1003.6	1002.9	1002.2	1001.6	1000.9	1001.6	1002.2	1002.9	1003.6	1003.9
137.5°	1046.3	1046.1	1045.6	1045.2	1044.7	1044.3	1044.7	1045.2	1045.6	1046.1	1046.3
140°	1084.7	1084.5	1084.0	1083.6	1083.1	1082.7	1083.1	1083.6	1084.0	1084.5	1084.7
142.5°	1121.1	1120.8	1120.1	1119.4	1118.7	1118.0	1118.7	1119.4	1120.1	1120.8	1121.1
145°	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4	1154.4
147.5°	1185.7	1185.1	1184.0	1182.9	1181.7	1180.6	1181.7	1182.9	1184.0	1185.1	1185.7
150°	1214.0	1213.7	1213.0	1212.3	1211.6	1210.9	1211.6	1212.3	1213.0	1213.7	1214.0
152.5°	1240.2	1239.6	1238.5	1237.4	1236.3	1235.2	1236.3	1237.4	1238.5	1239.6	1240.2
155°	1263.5	1262.8	1261.5	1260.1	1258.8	1257.4	1258.8	1260.1	1261.5	1262.8	1263.5
157.5°	1284.7	1283.8	1282.0	1280.2	1278.4	1276.6	1278.4	1280.2	1282.0	1283.8	1284.7
160°	1301.8	1301.0	1299.5	1297.9	1296.4	1294.8	1296.4	1297.9	1299.5	1301.0	1301.8
162.5°	1318.0	1317.3	1316.0	1314.6	1313.3	1311.9	1313.3	1314.6	1316.0	1317.3	1318.0
165°	1332.1	1331.3	1329.8	1328.2	1326.7	1325.1	1326.7	1328.2	1329.8	1331.3	1332.1
167.5°	1343.3	1342.4	1340.6	1338.8	1337.0	1335.2	1337.0	1338.8	1340.6	1342.4	1343.3
170°	1352.3	1351.4	1349.6	1347.9	1346.1	1344.3	1346.1	1347.9	1349.6	1351.4	1352.3
172.5°	1358.4	1357.4	1355.4	1353.3	1351.3	1349.3	1351.3	1353.3	1355.4	1357.4	1358.4
175°	1362.4	1361.5	1359.7	1358.0	1356.2	1354.4	1356.2	1358.0	1359.7	1361.5	1362.4
177.5°	1365.5	1364.4	1362.1	1359.9	1357.6	1355.4	1357.6	1359.9	1362.1	1364.4	1365.5
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	440.8	441.7	442.1	440.4	439.0	441.3	444.4	446.6	448.4	450.7	452.0
5°	414.7	417.9	417.9	418.8	420.1	422.4	428.2	432.3	435.9	438.6	440.8
7.5°	392.7	394.9	396.3	398.5	400.8	403.9	410.7	416.5	421.9	425.1	428.7
10°	372.9	374.7	376.9	378.3	382.3	386.8	395.4	400.3	406.6	411.6	416.1
12.5°	354.0	360.3	361.6	361.2	364.8	369.7	378.3	385.9	392.7	397.6	402.6
15°	340.5	342.7	345.4	345.0	352.6	354.0	361.2	370.2	379.2	382.3	386.8
17.5°	325.7	329.3	331.9	333.3	335.5	340.5	347.2	354.0	365.7	366.1	377.8
20°	314.0	317.6	319.4	321.2	322.5	328.4	334.2	341.8	351.3	356.2	362.5
22.5°	306.3	308.1	309.5	310.8	312.6	315.8	323.0	331.5	337.8	343.2	347.2
25°	297.3	299.1	300.9	301.8	303.2	305.0	310.4	317.1	326.1	329.7	333.7
27.5°	291.0	291.0	291.9	291.9	293.7	295.5	299.6	305.9	313.1	317.6	323.0
30°	284.3	283.8	284.3	283.8	283.4	286.1	289.7	295.1	300.0	305.4	309.0
32.5°	277.5	277.1	277.1	277.5	275.7	277.1	278.9	283.8	289.2	291.9	296.0
35°	270.3	269.4	269.4	269.4	268.5	267.6	269.4	273.9	277.5	281.1	284.3
37.5°	263.1	261.8	261.8	260.9	260.0	258.6	258.6	262.2	267.2	268.5	272.6
40°	253.2	253.2	252.3	251.9	251.0	250.1	248.7	251.9	256.4	257.7	260.9
42.5°	243.3	242.0	241.5	241.5	241.5	240.2	239.3	241.5	244.2	246.5	248.3
45°	232.1	231.2	231.6	231.2	230.3	229.8	229.4	230.3	233.4	234.3	236.6
47.5°	220.0	219.5	219.5	219.1	218.6	219.1	217.3	219.5	220.4	221.3	223.1
50°	207.4	206.9	206.5	206.0	206.0	206.5	206.0	206.0	207.8	208.7	210.5
52.5°	194.8	193.4	193.4	193.0	193.0	192.1	193.0	193.4	194.3	195.2	196.1
55°	181.3	181.3	179.9	179.9	179.0	179.0	179.5	179.0	180.8	181.7	181.7
57.5°	168.2	166.4	166.9	166.0	165.1	164.6	164.6	165.5	166.4	166.4	167.3
60°	154.3	152.5	152.0	150.2	151.1	149.8	150.2	150.2	152.0	151.1	152.0
62.5°	140.3	138.1	136.7	135.8	135.8	136.3	135.4	134.9	135.8	136.7	138.5
65°	125.5	124.1	122.8	121.4	121.4	121.0	121.9	120.5	120.1	120.5	121.4
67.5°	110.2	108.9	107.5	106.2	106.6	105.3	104.4	105.7	104.8	105.3	106.2
70°	95.4	94.5	91.8	90.9	90.4	90.9	90.4	89.5	90.9	90.4	90.9
72.5°	80.5	79.6	78.3	76.0	76.0	75.6	75.1	75.1	74.7	74.7	74.7
75°	66.1	64.3	63.0	62.5	61.6	61.2	60.7	59.8	60.3	60.7	59.8
77.5°	51.3	49.0	48.6	48.6	47.2	47.2	47.7	47.2	46.8	46.8	46.8
80°	37.8	36.0	36.0	35.1	34.2	34.2	34.2	34.2	33.7	33.3	33.7
82.5°	24.3	23.8	23.4	23.4	24.3	22.5	23.4	22.9	22.5	22.5	22.0
85°	13.5	13.9	13.5	13.9	13.0	13.5	13.5	13.5	13.0	13.5	12.6
87.5°	4.9	4.9	4.9	5.4	5.4	5.4	5.4	5.4	5.8	5.4	5.4
90°	27.8	26.9	26.0	25.1	24.2	21.3	18.4	15.5	12.6	11.1	10.0
92.5°	32.5	31.0	29.4	27.9	26.3	24.3	22.3	20.2	18.2	17.2	17.9
95°	37.6	36.0	34.5	32.9	31.3	28.8	26.4	23.9	21.4	20.2	24.8
97.5°	39.5	37.7	35.9	34.1	32.3	43.7	55.2	66.6	78.1	83.8	86.9
100°	40.5	38.7	36.9	35.1	33.3	68.3	103.3	138.4	173.4	190.9	188.7
102.5°	45.1	52.5	59.9	67.3	74.7	113.8	152.8	191.9	231.0	250.5	249.0
105°	62.3	102.0	141.7	181.5	221.2	241.4	261.6	281.8	302.0	312.1	310.9
107.5°	254.6	289.2	323.7	358.3	392.9	389.5	386.1	382.8	379.4	377.7	376.7
110°	425.9	433.3	440.7	448.1	455.5	453.0	450.6	448.1	445.6	444.4	443.5

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	527.2	525.2	523.1	521.1	519.1	516.6	514.2	511.7	509.2	508.0	507.2
115°	588.7	586.4	584.2	581.9	579.7	577.7	575.7	573.6	571.6	570.6	569.9
117.5°	646.5	644.7	642.9	641.1	639.3	638.2	637.1	636.0	634.9	634.3	633.5
120°	704.1	702.3	700.5	698.7	696.9	696.2	695.5	694.8	694.1	693.8	692.8
122.5°	758.9	757.8	756.7	755.5	754.4	753.5	752.6	751.7	750.8	750.4	749.6
125°	809.8	809.3	808.9	808.4	808.0	807.1	806.2	805.3	804.4	803.9	803.0
127.5°	864.2	863.5	862.8	862.2	861.5	860.4	859.3	858.2	857.1	856.5	855.6
130°	912.6	911.7	910.8	909.9	909.0	908.1	907.2	906.3	905.4	904.9	904.0
132.5°	958.0	957.1	956.2	955.3	954.4	953.7	953.1	952.4	951.7	951.4	950.5
135°	1003.6	1002.9	1002.2	1001.6	1000.9	1000.0	999.1	998.2	997.3	996.8	996.1
137.5°	1045.7	1044.6	1043.5	1042.4	1041.3	1040.9	1040.4	1040.0	1039.5	1039.3	1038.4
140°	1084.3	1083.4	1082.5	1081.6	1080.7	1080.0	1079.3	1078.6	1077.9	1077.6	1076.9
142.5°	1120.8	1120.1	1119.4	1118.7	1118.0	1117.3	1116.7	1116.0	1115.3	1115.0	1114.3
145°	1154.2	1153.7	1153.3	1152.8	1152.4	1152.0	1151.5	1151.1	1150.6	1150.4	1149.6
147.5°	1185.5	1185.0	1184.6	1184.1	1183.7	1183.3	1182.8	1182.4	1181.9	1181.7	1181.1
150°	1213.8	1213.3	1212.9	1212.4	1212.0	1211.5	1211.1	1210.6	1210.1	1209.9	1209.6
152.5°	1239.8	1238.9	1238.0	1237.1	1236.2	1236.0	1235.8	1235.5	1235.3	1235.2	1235.1
155°	1262.9	1261.8	1260.7	1259.5	1258.4	1258.2	1258.0	1257.7	1257.5	1257.4	1257.6
157.5°	1284.0	1282.7	1281.3	1280.0	1278.6	1278.8	1279.0	1279.3	1279.5	1279.6	1279.6
160°	1301.1	1299.8	1298.5	1297.1	1295.8	1296.0	1296.2	1296.5	1296.7	1296.8	1296.9
162.5°	1317.2	1315.6	1314.1	1312.5	1310.9	1311.1	1311.3	1311.6	1311.8	1311.9	1312.2
165°	1331.2	1329.4	1327.7	1325.9	1324.1	1324.3	1324.5	1324.8	1325.0	1325.1	1325.4
167.5°	1342.4	1340.6	1338.8	1337.0	1335.2	1335.2	1335.2	1335.2	1335.2	1335.2	1335.6
170°	1351.4	1349.6	1347.9	1346.1	1344.3	1344.3	1344.3	1344.3	1344.3	1344.3	1344.7
172.5°	1357.5	1355.7	1353.9	1352.1	1350.3	1350.1	1349.9	1349.6	1349.4	1349.3	1349.9
175°	1361.6	1360.1	1358.5	1357.0	1355.4	1355.2	1355.0	1354.7	1354.5	1354.4	1355.0
177.5°	1364.6	1362.8	1361.0	1359.2	1357.4	1357.2	1357.0	1356.7	1356.5	1356.4	1357.0
180°	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4	1359.4

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	464.2	464.2	464.2	464.2
2.5°	454.3	455.6	460.1	465.5
5°	445.3	448.9	455.2	463.7
7.5°	435.4	440.8	449.8	460.6
10°	424.2	431.8	443.0	456.5
12.5°	412.0	421.9	436.3	450.2
15°	404.4	414.3	427.3	442.6
17.5°	389.5	401.2	414.7	436.3
20°	374.2	387.3	404.8	426.4
22.5°	362.5	376.5	393.1	416.1
25°	348.6	363.0	381.0	404.8
27.5°	333.7	348.1	368.4	393.6
30°	322.5	336.4	355.8	382.8
32.5°	309.0	322.5	342.7	371.1
35°	293.7	309.0	328.4	357.1
37.5°	282.0	296.0	316.2	343.6
40°	269.4	281.6	301.4	328.4
42.5°	255.9	269.4	286.5	313.5
45°	243.3	253.2	270.8	296.4
47.5°	229.8	241.1	254.6	274.4
50°	215.5	224.9	239.7	253.2
52.5°	201.5	209.2	221.7	232.1
55°	186.7	194.3	203.8	210.1
57.5°	172.7	178.1	184.4	188.5
60°	155.6	161.0	165.1	169.1
62.5°	140.3	144.4	146.6	148.9
65°	124.6	126.8	128.2	130.0
67.5°	107.5	109.8	110.2	112.9
70°	91.8	92.2	93.1	94.5
72.5°	76.9	77.8	77.4	78.3
75°	61.6	62.5	61.6	62.5
77.5°	46.8	47.7	47.7	49.0
80°	33.7	34.2	34.6	34.6
82.5°	22.0	23.4	22.5	22.9
85°	12.6	13.0	13.0	13.5
87.5°	5.8	6.3	5.8	6.7
90°	7.7	5.5	3.2	1.0
92.5°	19.2	20.5	21.9	23.2
95°	34.0	43.2	52.4	61.6
97.5°	93.2	99.5	105.8	112.1
100°	184.2	179.7	175.2	170.7
102.5°	246.1	243.2	240.2	237.3
105°	308.4	305.9	303.5	301.0
107.5°	374.7	372.6	370.6	368.6
110°	441.7	439.9	438.1	436.3

TEST NUMBER: P1030790

CATALOG NUMBER: S123DIW-B340D1030UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	505.6	504.1	502.5	500.9
115°	568.6	567.3	565.9	564.6
117.5°	631.9	630.4	628.8	627.2
120°	690.8	688.8	686.8	684.8
122.5°	748.0	746.5	744.9	743.3
125°	801.2	799.5	797.7	795.9
127.5°	853.8	852.0	850.2	848.4
130°	902.2	900.4	898.6	896.8
132.5°	948.7	946.9	945.1	943.3
135°	994.8	993.5	992.1	990.8
137.5°	1036.6	1034.8	1033.0	1031.2
140°	1075.6	1074.3	1072.9	1071.6
142.5°	1113.0	1111.6	1110.3	1108.9
145°	1148.0	1146.5	1144.9	1143.3
147.5°	1180.0	1178.9	1177.7	1176.6
150°	1208.9	1208.2	1207.6	1206.9
152.5°	1234.9	1234.6	1234.4	1234.2
155°	1258.1	1258.5	1259.0	1259.4
157.5°	1279.6	1279.6	1279.6	1279.6
160°	1297.1	1297.4	1297.6	1297.8
162.5°	1312.9	1313.6	1314.3	1315.0
165°	1326.1	1326.8	1327.4	1328.1
167.5°	1336.5	1337.4	1338.3	1339.2
170°	1345.6	1346.5	1347.4	1348.3
172.5°	1351.0	1352.1	1353.3	1354.4
175°	1356.1	1357.2	1358.3	1359.4
177.5°	1358.1	1359.2	1360.3	1361.4
180°	1359.4	1359.4	1359.4	1359.4

(END OF REPORT)