

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: P1010546

Luminaire Tested: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010546
REPORT IS A COMBINATION OF REPORTS P989630 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

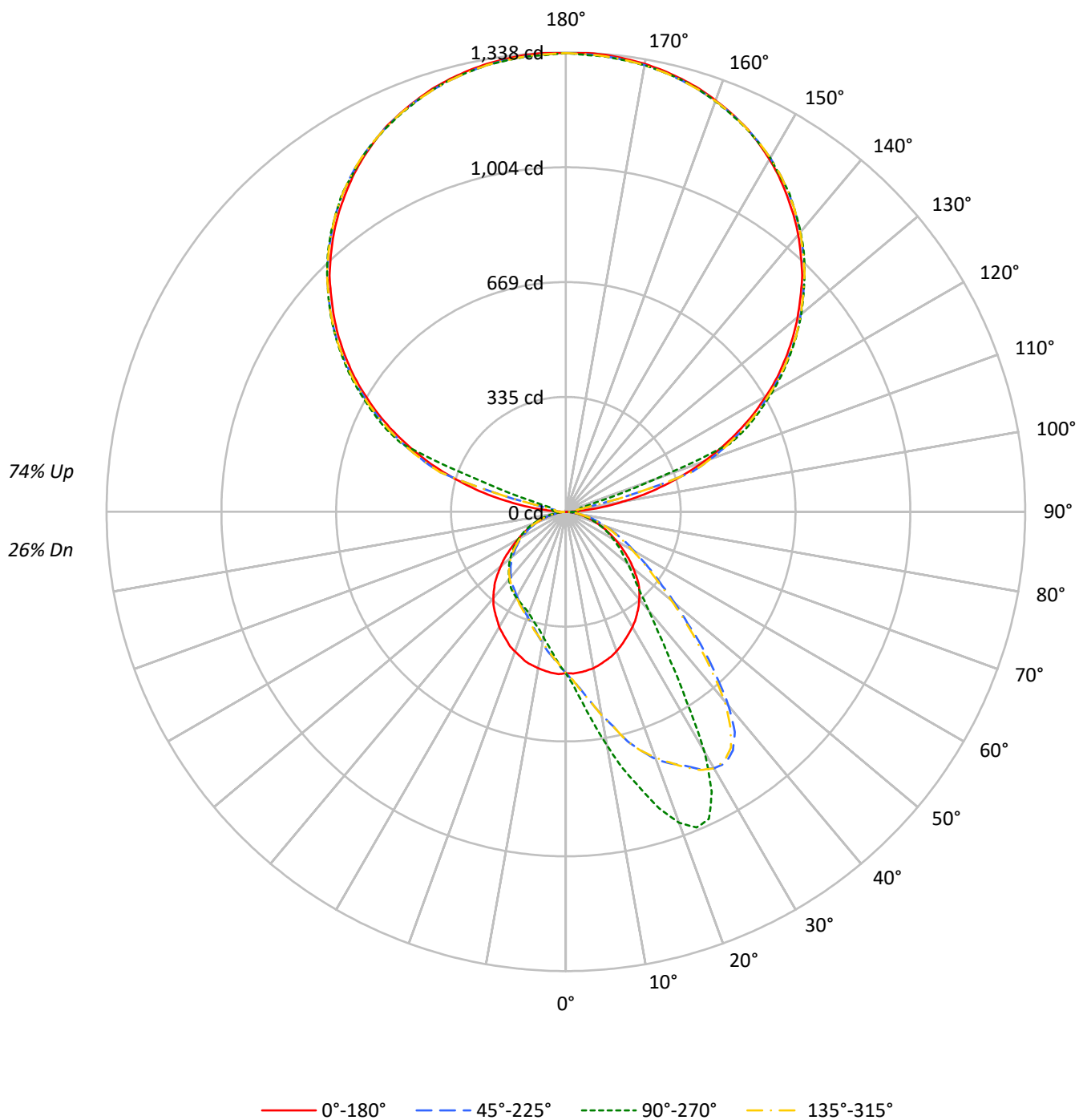
Lumens per Lamp: N/A
Luminaire Lumens: 5494.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	34	34	34
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	30	30	29
2	84	77	71	67	75	69	64	60	54	51	48	40	38	36	27	26	25
3	77	68	61	56	68	61	55	50	48	44	40	35	33	30	24	22	21
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	20	18
5	64	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16
6	59	48	40	35	53	43	36	31	34	29	26	25	22	20	17	15	14
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5061	5061	5061	5061
5°	5064	5831	5079	4352
10°	5032	7056	5037	3800
15°	4962	8368	5002	3421
20°	4903	9634	4913	3148
25°	4813	9878	4824	3005
30°	4750	8161	4750	2912
35°	4671	5458	4641	2829
40°	4577	3940	4521	2703
45°	4458	3121	4331	2547
50°	4171	2650	4023	2392
55°	3856	2329	3698	2220
60°	3535	2028	3347	2040
65°	3184	1736	3029	1799
70°	2818	1441	2630	1516
75°	2408	1086	2252	1171
80°	1906	726	1754	768
85°	1316	332	1047	304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	0.8
10°-20°	148.5	2.7
20°-30°	249.9	4.5
30°-40°	282.4	5.1
40°-50°	252.9	4.6
50°-60°	204.2	3.7
60°-70°	142.3	2.6
70°-80°	74.7	1.4
80°-90°	20.6	0.4
90°-100°	47.1	0.9
100°-110°	227.8	4.1
110°-120°	558.1	10.2
120°-130°	708.5	12.9
130°-140°	756.9	13.8
140°-150°	707.8	12.9
150°-160°	570.9	10.4
160°-170°	368.4	6.7
170°-180°	127.0	2.3
0°-30°	444.6	8.1
0°-40°	727.0	13.2
0°-60°	1184.1	21.6
0°-90°	1421.7	25.9
90°-120°	833.0	15.2
90°-150°	3006.1	54.7
90°-180°	4072.0	74.1
0°-180°	5494.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	470	470	470	470	470	
5°	470	558	471	417	470	45
15°	448	831	452	340	448	127
25°	410	987	411	300	410	189
35°	362	532	359	276	362	226
45°	300	287	292	234	300	230
55°	213	195	204	186	213	191
65°	132	127	125	131	132	131
75°	63	65	59	70	63	68
85°	14	15	11	14	14	16
90°	1	30	1	30	1	4
95°	60	38	60	38	60	72
105°	296	44	296	44	296	314
115°	555	584	555	584	555	548
125°	782	798	782	798	782	699
135°	974	984	974	984	974	750
145°	1123	1134	1123	1134	1123	703
155°	1238	1236	1238	1236	1238	570
165°	1305	1302	1305	1302	1305	369
175°	1336	1331	1336	1331	1336	127
180°	1336	1336	1336	1336	1336	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	471.5	475.2	477.0	479.7	482.5	486.6	487.9	490.2	489.3	491.1	492.0
5°	469.7	476.1	481.5	488.4	494.8	499.3	503.9	511.2	516.6	517.5	521.6
7.5°	466.5	475.6	485.2	494.8	507.1	514.3	522.5	532.6	540.8	554.0	559.0
10°	462.4	475.2	488.8	502.0	518.9	530.3	540.3	557.2	574.0	587.7	600.4
12.5°	456.0	472.0	489.7	509.3	531.2	544.4	558.1	580.4	605.9	626.9	640.5
15°	448.3	468.3	491.1	512.1	536.2	560.8	575.4	600.4	636.9	656.5	691.6
17.5°	441.9	462.4	485.2	518.0	550.8	575.4	585.9	631.9	656.9	689.7	729.4
20°	431.9	457.9	487.0	519.8	562.2	577.2	598.6	645.1	676.1	718.9	767.6
22.5°	421.4	449.2	484.3	518.4	565.8	581.8	610.9	647.8	697.0	739.4	793.2
25°	410.0	440.1	475.6	516.2	562.6	585.9	613.2	658.8	712.1	765.4	815.0
27.5°	398.6	431.4	468.3	508.9	554.0	581.3	608.6	656.0	724.4	782.2	845.5
30°	387.7	420.5	457.4	498.9	546.2	572.7	598.6	657.9	733.9	799.1	862.9
32.5°	375.8	409.6	448.3	482.9	530.7	559.0	588.1	657.9	739.9	809.1	867.4
35°	361.7	396.4	429.6	464.2	511.6	543.0	575.8	653.3	745.3	812.3	848.3
37.5°	348.1	378.6	407.3	441.0	490.7	524.4	562.2	647.8	742.6	798.6	808.6
40°	332.6	363.1	386.3	417.8	470.2	509.3	547.6	640.5	730.7	766.3	737.1
42.5°	317.5	341.7	361.7	392.3	449.2	487.5	528.9	627.3	707.5	714.8	649.2
45°	300.2	317.5	335.3	369.9	426.4	465.6	511.6	608.2	670.2	649.2	566.3
47.5°	277.9	293.4	313.0	344.9	402.3	442.8	486.6	583.6	615.9	572.2	481.5
50°	256.5	269.7	287.9	318.9	376.8	416.4	462.9	544.9	560.8	492.0	415.0
52.5°	235.1	245.1	262.9	293.8	351.7	390.0	432.3	505.2	496.1	422.3	354.0
55°	212.8	221.4	238.3	268.8	322.5	359.0	399.5	456.5	432.8	362.6	308.0
57.5°	190.9	200.0	217.3	242.8	293.4	328.9	361.3	405.9	370.4	314.3	266.1
60°	171.3	179.0	192.3	217.3	263.3	292.0	321.6	352.2	322.5	268.3	231.4
62.5°	150.8	158.1	170.4	193.2	232.8	258.3	282.0	307.1	274.3	234.6	201.8
65°	131.7	137.6	149.0	169.9	202.3	223.2	242.4	259.7	233.3	196.8	172.2
67.5°	114.3	119.4	128.9	147.6	174.9	190.0	205.5	220.0	197.7	168.6	147.6
70°	95.7	99.8	108.4	122.1	144.0	159.5	170.8	181.8	161.7	138.5	124.4
72.5°	79.3	83.4	88.8	103.0	118.0	127.6	139.9	145.8	134.4	115.3	101.1
75°	63.3	66.5	71.5	80.6	94.8	101.1	108.9	113.4	103.0	90.2	81.5
77.5°	49.7	51.0	54.7	61.0	70.6	77.9	83.8	86.6	79.3	71.1	63.8
80°	35.1	36.9	39.6	45.1	52.4	54.7	58.3	61.5	56.9	49.7	45.1
82.5°	23.2	25.5	26.9	29.2	33.7	36.4	37.4	40.1	36.0	33.3	31.4
85°	13.7	14.6	15.0	16.4	18.7	20.0	21.4	21.9	21.0	20.5	18.7
87.5°	6.8	6.8	6.8	7.7	8.2	9.1	9.6	9.6	9.6	9.1	8.7
90°	1.0	3.2	5.4	7.6	9.8	10.9	12.3	15.2	18.1	20.9	23.8
92.5°	22.8	21.5	20.2	18.9	17.6	16.9	17.9	19.9	21.8	23.8	25.8
95°	60.5	51.5	42.4	33.4	24.3	19.8	21.0	23.5	25.9	28.4	30.8
97.5°	110.2	104.0	97.8	91.7	85.5	82.4	76.8	65.5	54.3	43.0	31.8
100°	167.7	172.1	176.5	181.0	185.4	187.6	170.4	136.0	101.6	67.2	32.8
102.5°	233.2	236.1	238.9	241.8	244.7	246.1	226.9	188.5	150.2	111.8	73.4
105°	295.7	298.1	300.6	303.0	305.5	306.7	296.8	276.9	257.0	237.2	217.3
107.5°	362.2	364.2	366.2	368.2	370.2	371.2	372.9	376.2	379.5	382.8	386.1
110°	428.7	430.5	432.3	434.0	435.8	436.7	437.9	440.3	442.8	445.2	447.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	492.2	493.8	495.3	496.9	498.4	499.2	500.4	502.8	505.3	507.7	510.1
115°	554.8	556.1	557.4	558.7	560.0	560.7	561.7	563.7	565.7	567.7	569.7
117.5°	616.3	617.8	619.4	620.9	622.4	623.2	623.8	624.9	626.0	627.1	628.2
120°	672.9	674.9	676.9	678.8	680.8	681.8	682.1	682.8	683.5	684.1	684.8
122.5°	730.4	732.0	733.5	735.1	736.6	737.4	737.8	738.7	739.6	740.4	741.3
125°	782.0	783.8	785.6	787.3	789.1	790.0	790.4	791.3	792.2	793.0	793.9
127.5°	833.6	835.4	837.2	838.9	840.7	841.6	842.1	843.2	844.3	845.4	846.5
130°	881.3	883.1	884.8	886.6	888.3	889.2	889.6	890.5	891.4	892.3	893.2
132.5°	926.9	928.7	930.5	932.2	934.0	934.9	935.2	935.9	936.5	937.2	937.8
135°	973.6	974.9	976.2	977.5	978.8	979.5	979.9	980.8	981.7	982.6	983.5
137.5°	1013.3	1015.1	1016.8	1018.6	1020.3	1021.2	1021.4	1021.9	1022.3	1022.8	1023.2
140°	1053.0	1054.3	1055.6	1056.9	1058.2	1058.9	1059.2	1059.9	1060.6	1061.2	1061.9
142.5°	1089.7	1091.0	1092.3	1093.6	1094.9	1095.6	1095.9	1096.6	1097.3	1097.9	1098.6
145°	1123.4	1125.0	1126.5	1128.1	1129.6	1130.4	1130.6	1131.1	1131.5	1132.0	1132.4
147.5°	1156.2	1157.3	1158.4	1159.5	1160.6	1161.1	1161.3	1161.8	1162.2	1162.7	1163.1
150°	1186.0	1186.6	1187.3	1187.9	1188.6	1188.9	1189.1	1189.6	1190.0	1190.5	1190.9
152.5°	1212.7	1212.9	1213.1	1213.4	1213.6	1213.7	1213.8	1214.0	1214.3	1214.5	1214.7
155°	1237.6	1237.2	1236.7	1236.3	1235.8	1235.6	1235.7	1235.9	1236.2	1236.4	1236.6
157.5°	1257.4	1257.4	1257.4	1257.4	1257.4	1257.4	1257.3	1257.1	1256.8	1256.6	1256.4
160°	1275.3	1275.1	1274.9	1274.6	1274.4	1274.3	1274.2	1274.0	1273.7	1273.5	1273.3
162.5°	1292.1	1291.5	1290.8	1290.2	1289.5	1289.2	1289.1	1288.9	1288.6	1288.4	1288.2
165°	1305.0	1304.4	1303.7	1303.1	1302.4	1302.1	1302.0	1301.8	1301.5	1301.3	1301.1
167.5°	1316.0	1315.1	1314.2	1313.3	1312.4	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0
170°	1324.9	1324.0	1323.1	1322.2	1321.3	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9
172.5°	1330.8	1329.7	1328.6	1327.5	1326.4	1325.9	1326.0	1326.2	1326.5	1326.7	1326.9
175°	1335.8	1334.7	1333.6	1332.5	1331.4	1330.8	1330.9	1331.1	1331.4	1331.6	1331.8
177.5°	1337.8	1336.7	1335.6	1334.5	1333.4	1332.8	1332.9	1333.1	1333.4	1333.6	1333.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	495.2	496.1	499.3	501.6	506.1	505.7	505.7	505.2	503.9	506.1	507.5
5°	529.8	537.6	538.5	548.5	549.0	553.1	555.8	553.5	559.0	558.5	554.4
7.5°	572.7	583.1	588.1	597.7	608.6	605.9	616.4	618.2	617.3	621.9	625.0
10°	619.6	637.8	650.6	668.3	672.9	675.6	682.5	688.4	700.2	691.1	697.0
12.5°	673.3	686.6	703.4	731.7	745.8	754.9	758.1	762.2	770.4	765.4	765.8
15°	718.4	736.2	764.9	800.0	804.1	815.5	812.7	837.3	849.2	831.4	841.4
17.5°	765.4	789.1	823.2	853.7	871.1	878.8	886.1	909.8	908.9	906.1	908.4
20°	795.4	834.2	876.5	917.1	922.1	928.0	947.6	957.6	955.8	963.5	968.6
22.5°	837.8	878.8	923.9	950.8	962.2	969.0	984.5	990.9	993.6	995.4	992.2
25°	873.3	917.1	950.3	974.0	980.9	984.5	989.5	991.3	990.0	986.8	989.5
27.5°	897.5	932.6	955.3	966.3	962.6	956.7	947.1	940.8	926.6	919.8	928.0
30°	907.5	923.0	929.8	911.6	893.4	878.8	860.6	826.9	800.4	808.2	797.7
32.5°	891.6	881.5	848.7	801.8	787.7	764.0	712.5	672.9	674.3	653.3	662.0
35°	844.6	799.1	737.1	666.1	647.4	634.6	578.1	569.5	551.2	531.7	537.1
37.5°	761.7	695.2	620.0	567.6	539.9	512.1	480.2	461.0	450.1	441.9	448.3
40°	660.6	579.5	517.5	470.6	446.9	429.2	407.3	388.2	375.8	374.5	376.8
42.5°	561.3	492.9	436.0	391.3	383.6	362.6	348.5	333.5	329.8	323.9	327.1
45°	475.2	419.6	372.7	336.2	327.1	321.6	304.3	294.8	290.7	287.0	292.5
47.5°	412.8	354.4	320.3	298.4	289.3	280.2	270.6	264.2	261.0	261.5	261.0
50°	352.6	309.8	279.7	262.9	257.4	251.0	243.3	239.2	237.8	233.7	236.9
52.5°	303.4	272.4	251.5	235.5	231.4	226.9	220.5	218.2	215.0	214.1	214.1
55°	263.8	239.6	222.8	212.3	207.3	203.6	200.0	197.3	195.0	195.0	195.0
57.5°	232.8	211.8	199.5	190.4	188.6	185.0	180.9	180.9	177.7	177.2	178.6
60°	206.4	187.7	178.1	170.4	167.7	166.7	162.6	162.6	161.7	159.5	161.3
62.5°	179.5	165.8	157.6	151.7	149.0	149.0	145.8	143.5	143.5	144.0	143.1
65°	154.9	144.9	137.6	133.0	131.7	129.8	129.4	127.6	126.2	126.6	126.2
67.5°	133.0	125.3	120.3	116.6	114.3	113.4	112.1	112.1	111.2	111.6	109.3
70°	113.4	105.7	101.6	97.9	97.0	97.0	95.2	95.7	94.8	96.1	95.2
72.5°	93.4	87.5	84.3	82.9	82.0	81.5	80.6	79.7	79.3	80.2	79.7
75°	75.6	70.6	68.3	67.4	66.5	66.5	66.1	65.6	65.1	65.1	65.1
77.5°	58.8	55.6	52.8	53.8	52.4	52.8	51.5	51.5	51.9	51.5	51.5
80°	43.3	41.0	41.0	40.1	38.3	39.2	39.2	37.8	37.4	38.3	36.9
82.5°	28.7	28.2	27.3	26.9	26.0	26.4	26.0	25.5	25.1	26.0	25.1
85°	16.9	16.9	16.4	15.5	16.4	15.9	15.5	15.5	15.0	15.0	15.0
87.5°	8.7	7.7	7.7	7.3	7.7	6.8	7.3	6.8	6.4	6.8	6.4
90°	24.7	25.6	26.5	27.4	27.8	28.0	28.5	28.9	29.4	29.8	29.4
92.5°	27.4	28.9	30.5	32.0	32.8	32.9	33.1	33.3	33.5	33.7	33.5
95°	32.3	33.9	35.4	36.9	37.7	37.7	37.7	37.7	37.7	37.7	37.7
97.5°	33.6	35.3	37.1	38.8	39.7	39.8	40.0	40.3	40.5	40.7	40.5
100°	34.6	36.3	38.1	39.8	40.7	40.8	41.0	41.3	41.5	41.7	41.5
102.5°	66.1	58.9	51.6	44.3	40.7	40.9	41.4	41.8	42.3	42.7	42.3
105°	178.3	139.3	100.2	61.2	41.7	41.9	42.4	42.8	43.3	43.7	43.3
107.5°	352.1	318.1	284.2	250.2	233.2	218.8	189.9	161.0	132.1	103.2	132.1
110°	440.3	433.0	425.7	418.4	414.8	399.0	367.5	336.0	304.4	272.9	304.4

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	512.1	514.1	516.0	518.0	519.0	518.8	518.4	517.9	517.5	517.1	517.5
115°	571.9	574.1	576.3	578.5	579.6	580.0	580.9	581.8	582.6	583.5	582.6
117.5°	630.0	631.7	633.5	635.2	636.1	636.2	636.4	636.7	636.9	637.1	636.9
120°	686.6	688.3	690.1	691.8	692.7	692.7	692.7	692.7	692.7	692.7	692.7
122.5°	742.4	743.5	744.6	745.7	746.3	746.4	746.6	746.9	747.1	747.3	747.1
125°	794.3	794.8	795.2	795.7	795.9	796.1	796.6	797.0	797.5	797.9	797.5
127.5°	847.2	847.8	848.5	849.2	849.5	849.3	848.8	848.4	847.9	847.5	847.9
130°	894.1	895.0	895.9	896.8	897.2	897.0	896.5	896.1	895.6	895.2	895.6
132.5°	938.7	939.6	940.5	941.4	941.8	941.5	940.8	940.1	939.5	938.8	939.5
135°	984.2	984.8	985.5	986.2	986.5	986.2	985.5	984.8	984.2	983.5	984.2
137.5°	1024.3	1025.4	1026.5	1027.6	1028.2	1028.0	1027.5	1027.1	1026.6	1026.2	1026.6
140°	1062.8	1063.7	1064.6	1065.5	1065.9	1065.7	1065.2	1064.8	1064.3	1063.9	1064.3
142.5°	1099.3	1099.9	1100.6	1101.3	1101.6	1101.3	1100.6	1099.9	1099.3	1098.6	1099.3
145°	1132.8	1133.2	1133.7	1134.1	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
147.5°	1163.5	1164.0	1164.4	1164.9	1165.1	1164.6	1163.5	1162.4	1161.3	1160.2	1161.3
150°	1191.3	1191.8	1192.2	1192.7	1192.9	1192.6	1191.9	1191.2	1190.6	1189.9	1190.6
152.5°	1215.6	1216.5	1217.4	1218.3	1218.7	1218.1	1217.0	1215.9	1214.8	1213.7	1214.8
155°	1237.7	1238.8	1239.9	1241.0	1241.5	1240.8	1239.5	1238.2	1236.9	1235.6	1236.9
157.5°	1257.7	1259.1	1260.4	1261.7	1262.4	1261.5	1259.7	1258.0	1256.2	1254.4	1256.2
160°	1274.6	1275.9	1277.2	1278.5	1279.2	1278.4	1276.9	1275.4	1273.8	1272.3	1273.8
162.5°	1289.7	1291.3	1292.8	1294.3	1295.1	1294.4	1293.1	1291.8	1290.5	1289.2	1290.5
165°	1302.9	1304.6	1306.4	1308.1	1309.0	1308.2	1306.7	1305.2	1303.6	1302.1	1303.6
167.5°	1313.8	1315.5	1317.3	1319.0	1319.9	1319.0	1317.3	1315.5	1313.8	1312.0	1313.8
170°	1322.7	1324.5	1326.2	1328.0	1328.9	1328.0	1326.2	1324.5	1322.7	1320.9	1322.7
172.5°	1328.7	1330.4	1332.2	1333.9	1334.8	1333.8	1331.8	1329.9	1327.9	1325.9	1327.9
175°	1333.4	1334.9	1336.5	1338.0	1338.8	1337.9	1336.1	1334.4	1332.6	1330.8	1332.6
177.5°	1335.6	1337.4	1339.1	1340.9	1341.8	1340.7	1338.5	1336.2	1334.0	1331.8	1334.0
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	503.9	505.2	501.6	500.7	500.7	502.5	501.1	488.8	491.1	488.4	487.5
5°	559.4	556.7	553.1	551.2	549.0	542.6	542.1	528.0	525.3	516.2	512.1
7.5°	620.5	618.2	607.3	605.9	605.0	599.1	584.0	569.0	558.1	547.6	537.6
10°	690.2	683.4	678.4	668.3	663.3	655.1	635.5	621.4	602.7	586.8	565.8
12.5°	774.0	766.3	749.4	742.1	735.8	713.0	693.4	677.4	641.0	630.1	604.1
15°	835.5	819.1	817.3	801.4	800.4	775.4	738.0	720.7	692.5	652.4	625.5
17.5°	902.0	887.5	876.1	856.9	854.2	830.5	803.2	760.8	729.8	691.6	657.4
20°	950.8	943.0	923.5	915.7	899.8	879.7	851.5	799.1	761.3	723.0	681.1
22.5°	989.5	981.8	966.3	955.8	946.7	920.7	887.0	842.4	790.4	740.3	697.0
25°	989.1	986.8	980.4	975.4	968.6	949.4	921.2	878.3	820.5	765.4	705.2
27.5°	933.0	939.4	950.3	955.8	954.4	951.7	935.8	899.8	847.8	782.2	714.8
30°	816.4	839.6	860.1	887.5	895.7	915.7	924.8	904.3	862.9	801.8	727.1
32.5°	677.0	710.7	755.3	770.4	796.3	835.1	878.3	886.1	860.1	813.2	734.8
35°	555.3	583.1	617.8	641.5	664.7	727.6	782.2	829.6	838.3	807.3	733.0
37.5°	459.7	479.3	509.8	529.8	551.2	605.0	681.5	743.0	786.3	787.2	728.0
40°	390.4	399.1	425.5	440.1	460.6	507.1	575.4	655.6	718.9	748.1	714.8
42.5°	330.7	342.1	364.0	374.9	388.2	428.7	473.8	549.9	628.2	690.7	690.2
45°	295.2	303.4	313.4	322.5	337.6	361.7	413.2	470.2	545.3	615.9	643.7
47.5°	263.8	271.5	281.5	284.3	294.3	317.1	348.5	398.2	468.3	538.5	590.9
50°	237.4	243.7	250.6	255.6	260.1	278.8	302.5	344.4	400.5	468.3	533.5
52.5°	216.9	221.4	227.3	230.1	234.2	247.8	266.1	297.0	343.0	405.0	468.3
55°	197.7	200.9	204.6	209.1	210.9	221.0	235.1	261.5	295.7	351.2	411.4
57.5°	180.0	181.3	183.6	186.3	188.6	197.3	209.6	227.3	257.4	300.2	357.2
60°	159.9	163.6	164.9	167.7	169.0	175.9	185.4	200.5	223.7	260.6	303.4
62.5°	143.1	145.3	147.6	149.0	152.2	154.4	162.2	175.9	195.0	222.3	261.0
65°	128.0	128.9	130.3	131.7	132.6	135.3	142.6	151.7	166.3	190.4	220.5
67.5°	110.7	111.6	113.4	113.9	114.8	118.4	122.5	130.3	142.6	160.8	185.4
70°	93.8	95.2	96.1	97.0	98.4	99.8	104.3	110.7	120.3	133.0	152.2
72.5°	79.3	80.6	80.6	81.5	81.1	82.9	87.5	92.0	98.4	108.9	125.7
75°	64.7	64.7	65.6	66.1	66.5	68.3	70.2	73.8	78.8	87.0	97.5
77.5°	51.0	50.6	51.5	51.5	51.5	52.8	54.7	56.5	59.7	65.6	73.8
80°	37.4	37.4	38.3	38.7	37.8	38.3	39.2	41.0	43.3	47.4	51.9
82.5°	24.6	26.4	26.0	26.4	26.0	26.9	27.3	27.8	28.7	30.5	33.7
85°	15.0	15.0	15.0	15.5	15.0	15.5	15.5	15.5	15.9	16.9	18.2
87.5°	6.4	6.4	6.4	6.8	6.4	6.4	6.8	6.4	6.8	6.8	7.3
90°	28.9	28.5	28.0	27.8	27.4	26.5	25.6	24.7	23.8	20.9	18.1
92.5°	33.3	33.1	32.9	32.8	32.0	30.5	28.9	27.4	25.8	23.8	21.8
95°	37.7	37.7	37.7	37.7	36.9	35.4	33.9	32.3	30.8	28.4	25.9
97.5°	40.3	40.0	39.8	39.7	38.8	37.1	35.3	33.6	31.8	43.0	54.3
100°	41.3	41.0	40.8	40.7	39.8	38.1	36.3	34.6	32.8	67.2	101.6
102.5°	41.8	41.4	40.9	40.7	44.3	51.6	58.9	66.1	73.4	111.8	150.2
105°	42.8	42.4	41.9	41.7	61.2	100.2	139.3	178.3	217.3	237.2	257.0
107.5°	161.0	189.9	218.8	233.2	250.2	284.2	318.1	352.1	386.1	382.8	379.5
110°	336.0	367.5	399.0	414.8	418.4	425.7	433.0	440.3	447.6	445.2	442.8

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CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	517.9	518.4	518.8	519.0	518.0	516.0	514.1	512.1	510.1	507.7	505.3
115°	581.8	580.9	580.0	579.6	578.5	576.3	574.1	571.9	569.7	567.7	565.7
117.5°	636.7	636.4	636.2	636.1	635.2	633.5	631.7	630.0	628.2	627.1	626.0
120°	692.7	692.7	692.7	692.7	691.8	690.1	688.3	686.6	684.8	684.1	683.5
122.5°	746.9	746.6	746.4	746.3	745.7	744.6	743.5	742.4	741.3	740.4	739.6
125°	797.0	796.6	796.1	795.9	795.7	795.2	794.8	794.3	793.9	793.0	792.2
127.5°	848.4	848.8	849.3	849.5	849.2	848.5	847.8	847.2	846.5	845.4	844.3
130°	896.1	896.5	897.0	897.2	896.8	895.9	895.0	894.1	893.2	892.3	891.4
132.5°	940.1	940.8	941.5	941.8	941.4	940.5	939.6	938.7	937.8	937.2	936.5
135°	984.8	985.5	986.2	986.5	986.2	985.5	984.8	984.2	983.5	982.6	981.7
137.5°	1027.1	1027.5	1028.0	1028.2	1027.6	1026.5	1025.4	1024.3	1023.2	1022.8	1022.3
140°	1064.8	1065.2	1065.7	1065.9	1065.5	1064.6	1063.7	1062.8	1061.9	1061.2	1060.6
142.5°	1099.9	1100.6	1101.3	1101.6	1101.3	1100.6	1099.9	1099.3	1098.6	1097.9	1097.3
145°	1134.3	1134.3	1134.3	1134.3	1134.1	1133.7	1133.2	1132.8	1132.4	1132.0	1131.5
147.5°	1162.4	1163.5	1164.6	1165.1	1164.9	1164.4	1164.0	1163.5	1163.1	1162.7	1162.2
150°	1191.2	1191.9	1192.6	1192.9	1192.7	1192.2	1191.8	1191.3	1190.9	1190.5	1190.0
152.5°	1215.9	1217.0	1218.1	1218.7	1218.3	1217.4	1216.5	1215.6	1214.7	1214.5	1214.3
155°	1238.2	1239.5	1240.8	1241.5	1241.0	1239.9	1238.8	1237.7	1236.6	1236.4	1236.2
157.5°	1258.0	1259.7	1261.5	1262.4	1261.7	1260.4	1259.1	1257.7	1256.4	1256.6	1256.8
160°	1275.4	1276.9	1278.4	1279.2	1278.5	1277.2	1275.9	1274.6	1273.3	1273.5	1273.7
162.5°	1291.8	1293.1	1294.4	1295.1	1294.3	1292.8	1291.3	1289.7	1288.2	1288.4	1288.6
165°	1305.2	1306.7	1308.2	1309.0	1308.1	1306.4	1304.6	1302.9	1301.1	1301.3	1301.5
167.5°	1315.5	1317.3	1319.0	1319.9	1319.0	1317.3	1315.5	1313.8	1312.0	1312.0	1312.0
170°	1324.5	1326.2	1328.0	1328.9	1328.0	1326.2	1324.5	1322.7	1320.9	1320.9	1320.9
172.5°	1329.9	1331.8	1333.8	1334.8	1333.9	1332.2	1330.4	1328.7	1326.9	1326.7	1326.5
175°	1334.4	1336.1	1337.9	1338.8	1338.0	1336.5	1334.9	1333.4	1331.8	1331.6	1331.4
177.5°	1336.2	1338.5	1340.7	1341.8	1340.9	1339.1	1337.4	1335.6	1333.8	1333.6	1333.4
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	482.9	481.5	481.5	480.6	477.9	472.9	472.4	473.3	470.6	467.9	463.8
5°	506.6	497.9	495.2	492.5	487.0	477.9	474.3	471.1	466.1	460.1	453.8
7.5°	526.6	514.3	510.7	505.7	494.8	482.0	473.8	467.0	460.1	451.9	444.2
10°	551.7	533.9	525.3	518.0	503.0	485.2	472.9	462.9	451.9	441.9	431.9
12.5°	579.9	551.2	548.5	530.7	513.4	487.0	472.0	457.4	442.8	430.5	420.0
15°	603.6	572.2	560.8	549.0	515.7	482.9	468.3	451.9	435.1	421.9	406.4
17.5°	618.7	592.7	568.6	552.6	518.0	488.8	460.6	441.9	424.1	405.9	393.2
20°	636.9	599.1	578.1	556.7	522.5	484.3	456.0	432.8	410.9	394.5	379.0
22.5°	655.1	604.1	586.8	563.5	523.5	479.7	447.8	424.6	399.5	383.1	366.3
25°	653.3	611.4	582.7	563.1	514.3	475.6	438.3	410.9	387.7	366.7	349.9
27.5°	654.7	603.2	574.0	551.2	508.0	469.7	428.2	399.5	375.4	353.5	335.8
30°	655.1	590.9	565.4	538.0	496.1	455.6	416.9	387.7	362.2	338.5	322.5
32.5°	653.8	580.9	549.0	524.4	477.4	441.9	403.6	372.7	346.7	324.8	309.8
35°	650.6	569.0	532.1	501.1	458.3	422.3	391.3	359.4	331.7	311.6	294.3
37.5°	641.9	556.3	514.3	483.8	436.0	399.5	372.2	345.8	318.9	295.2	280.6
40°	635.5	538.9	496.6	463.3	411.8	376.3	353.5	328.5	302.0	280.6	266.5
42.5°	620.9	522.5	478.4	438.7	388.2	351.7	330.3	310.2	287.5	266.5	253.8
45°	597.3	504.8	456.0	415.9	362.2	327.6	308.0	291.6	271.5	251.5	238.7
47.5°	564.0	479.3	432.3	392.3	336.7	301.6	282.0	269.7	253.8	236.9	226.0
50°	528.0	451.5	408.2	368.6	312.1	277.9	258.8	247.4	236.9	221.4	210.9
52.5°	481.1	421.9	380.4	342.6	285.6	252.8	236.0	227.8	216.9	205.9	196.8
55°	435.5	383.6	349.4	313.4	259.7	229.2	212.8	204.1	197.7	188.6	181.3
57.5°	382.7	348.1	316.6	283.8	235.5	207.7	192.3	181.8	177.7	173.6	166.7
60°	333.9	307.5	282.0	254.7	210.5	185.4	170.4	162.2	158.1	155.4	150.8
62.5°	289.3	268.8	246.9	225.1	185.0	162.2	150.8	142.6	139.0	138.5	134.4
65°	246.5	231.9	214.1	192.7	161.3	141.2	130.3	125.3	121.2	121.2	118.0
67.5°	203.6	193.6	179.5	164.5	139.9	121.2	111.2	106.6	104.3	104.3	102.0
70°	169.5	162.6	149.9	136.7	115.3	101.1	93.4	89.3	87.9	88.4	86.6
72.5°	137.6	130.3	119.8	110.2	94.3	83.8	78.4	73.8	71.5	72.0	71.5
75°	106.6	103.0	93.8	86.6	73.8	66.5	61.5	59.2	57.4	57.9	56.9
77.5°	80.2	74.7	69.7	64.7	56.9	51.0	46.9	44.6	43.3	43.3	43.3
80°	54.7	53.8	49.7	46.9	40.5	36.0	32.8	32.3	31.0	31.0	31.0
82.5°	35.5	33.3	31.0	29.2	25.5	22.8	21.4	20.5	20.0	19.6	20.5
85°	19.6	18.2	17.3	15.5	14.1	12.8	11.4	10.9	10.5	10.9	10.5
87.5°	7.7	6.4	6.4	5.9	5.5	5.0	5.0	4.1	4.1	3.6	3.6
90°	15.2	12.3	10.9	9.8	7.6	5.4	3.2	1.0	3.2	5.4	7.6
92.5°	19.9	17.9	16.9	17.6	18.9	20.2	21.5	22.8	21.5	20.2	18.9
95°	23.5	21.0	19.8	24.3	33.4	42.4	51.5	60.5	51.5	42.4	33.4
97.5°	65.5	76.8	82.4	85.5	91.7	97.8	104.0	110.2	104.0	97.8	91.7
100°	136.0	170.4	187.6	185.4	181.0	176.5	172.1	167.7	172.1	176.5	181.0
102.5°	188.5	226.9	246.1	244.7	241.8	238.9	236.1	233.2	236.1	238.9	241.8
105°	276.9	296.8	306.7	305.5	303.0	300.6	298.1	295.7	298.1	300.6	303.0
107.5°	376.2	372.9	371.2	370.2	368.2	366.2	364.2	362.2	364.2	366.2	368.2
110°	440.3	437.9	436.7	435.8	434.0	432.3	430.5	428.7	430.5	432.3	434.0

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	502.8	500.4	499.2	498.4	496.9	495.3	493.8	492.2	493.8	495.3	496.9
115°	563.7	561.7	560.7	560.0	558.7	557.4	556.1	554.8	556.1	557.4	558.7
117.5°	624.9	623.8	623.2	622.4	620.9	619.4	617.8	616.3	617.8	619.4	620.9
120°	682.8	682.1	681.8	680.8	678.8	676.9	674.9	672.9	674.9	676.9	678.8
122.5°	738.7	737.8	737.4	736.6	735.1	733.5	732.0	730.4	732.0	733.5	735.1
125°	791.3	790.4	790.0	789.1	787.3	785.6	783.8	782.0	783.8	785.6	787.3
127.5°	843.2	842.1	841.6	840.7	838.9	837.2	835.4	833.6	835.4	837.2	838.9
130°	890.5	889.6	889.2	888.3	886.6	884.8	883.1	881.3	883.1	884.8	886.6
132.5°	935.9	935.2	934.9	934.0	932.2	930.5	928.7	926.9	928.7	930.5	932.2
135°	980.8	979.9	979.5	978.8	977.5	976.2	974.9	973.6	974.9	976.2	977.5
137.5°	1021.9	1021.4	1021.2	1020.3	1018.6	1016.8	1015.1	1013.3	1015.1	1016.8	1018.6
140°	1059.9	1059.2	1058.9	1058.2	1056.9	1055.6	1054.3	1053.0	1054.3	1055.6	1056.9
142.5°	1096.6	1095.9	1095.6	1094.9	1093.6	1092.3	1091.0	1089.7	1091.0	1092.3	1093.6
145°	1131.1	1130.6	1130.4	1129.6	1128.1	1126.5	1125.0	1123.4	1125.0	1126.5	1128.1
147.5°	1161.8	1161.3	1161.1	1160.6	1159.5	1158.4	1157.3	1156.2	1157.3	1158.4	1159.5
150°	1189.6	1189.1	1188.9	1188.6	1187.9	1187.3	1186.6	1186.0	1186.6	1187.3	1187.9
152.5°	1214.0	1213.8	1213.7	1213.6	1213.4	1213.1	1212.9	1212.7	1212.9	1213.1	1213.4
155°	1235.9	1235.7	1235.6	1235.8	1236.3	1236.7	1237.2	1237.6	1237.2	1236.7	1236.3
157.5°	1257.1	1257.3	1257.4	1257.4	1257.4	1257.4	1257.4	1257.4	1257.4	1257.4	1257.4
160°	1274.0	1274.2	1274.3	1274.4	1274.6	1274.9	1275.1	1275.3	1275.1	1274.9	1274.6
162.5°	1288.9	1289.1	1289.2	1289.5	1290.2	1290.8	1291.5	1292.1	1291.5	1290.8	1290.2
165°	1301.8	1302.0	1302.1	1302.4	1303.1	1303.7	1304.4	1305.0	1304.4	1303.7	1303.1
167.5°	1312.0	1312.0	1312.0	1312.4	1313.3	1314.2	1315.1	1316.0	1315.1	1314.2	1313.3
170°	1320.9	1320.9	1320.9	1321.3	1322.2	1323.1	1324.0	1324.9	1324.0	1323.1	1322.2
172.5°	1326.2	1326.0	1325.9	1326.4	1327.5	1328.6	1329.7	1330.8	1329.7	1328.6	1327.5
175°	1331.1	1330.9	1330.8	1331.4	1332.5	1333.6	1334.7	1335.8	1334.7	1333.6	1332.5
177.5°	1333.1	1332.9	1332.8	1333.4	1334.5	1335.6	1336.7	1337.8	1336.7	1335.6	1334.5
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

TEST NUMBER: P1010546

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	462.9	462.4	463.3	460.6	456.0	453.8	447.4	446.0	445.6	446.0	446.5
5°	450.1	449.7	448.3	443.7	438.3	434.2	426.4	426.0	423.2	420.5	421.9
7.5°	437.8	436.0	433.3	427.3	420.0	415.5	409.1	404.6	400.9	398.6	396.8
10°	425.5	422.8	420.0	412.3	403.2	396.4	388.6	385.0	380.9	379.0	377.2
12.5°	409.6	406.8	401.8	392.7	387.2	378.6	370.8	367.2	364.9	361.3	359.0
15°	396.8	391.3	388.6	379.0	367.6	366.7	352.6	351.7	347.1	347.1	343.5
17.5°	382.2	378.1	373.1	363.5	355.3	347.1	339.9	337.1	333.0	332.1	330.3
20°	368.1	362.6	360.8	351.2	342.6	332.6	324.8	322.1	320.3	318.4	319.8
22.5°	353.5	349.0	344.4	335.8	329.4	319.4	314.8	312.1	309.3	308.4	308.9
25°	339.4	335.3	330.7	322.1	315.3	307.1	303.0	301.6	300.2	300.2	299.8
27.5°	325.7	321.6	317.5	309.8	303.0	297.0	293.8	292.5	291.1	292.0	292.9
30°	311.6	308.0	304.3	297.5	292.0	286.6	284.7	283.8	283.4	285.6	285.6
32.5°	298.9	295.7	292.9	286.6	281.1	276.5	275.2	275.6	276.1	277.4	278.4
35°	285.6	283.4	280.6	275.2	270.6	266.5	267.0	267.0	267.9	270.2	272.0
37.5°	273.8	270.6	268.3	263.8	260.1	256.5	257.9	259.2	260.1	262.9	263.8
40°	259.7	258.3	256.5	251.9	248.7	248.3	248.7	249.7	251.5	252.8	254.2
42.5°	248.3	246.5	244.2	240.5	237.8	238.3	238.7	239.6	240.5	242.8	244.2
45°	235.5	234.2	232.3	229.2	226.9	227.3	227.8	227.8	228.7	231.4	232.3
47.5°	221.4	221.9	219.6	216.4	215.0	215.0	215.0	215.9	218.2	219.1	219.6
50°	207.7	206.8	206.4	203.2	202.3	201.8	202.3	202.7	205.9	205.5	206.8
52.5°	193.2	193.2	192.7	190.9	189.5	189.5	188.6	190.9	191.8	192.7	194.1
55°	179.0	177.7	177.2	176.3	174.5	174.0	174.9	177.7	178.6	179.5	180.9
57.5°	163.6	163.6	162.6	161.3	161.3	161.3	161.3	163.1	164.5	165.4	168.1
60°	149.4	147.6	146.2	146.2	146.2	145.8	148.5	148.5	151.3	151.7	152.6
62.5°	132.6	131.7	130.8	131.2	130.8	131.7	132.6	134.4	134.9	136.2	137.6
65°	116.6	116.6	115.7	118.4	116.6	116.6	118.9	118.9	119.8	121.2	123.0
67.5°	101.1	101.6	100.7	100.7	101.6	102.0	102.5	104.3	104.8	106.6	108.9
70°	85.2	86.1	86.6	85.6	86.6	87.5	88.4	88.8	90.7	91.6	92.9
72.5°	71.1	72.0	70.6	71.1	71.5	72.4	72.9	73.8	74.7	77.4	78.4
75°	56.9	56.5	56.0	57.9	56.9	58.8	59.2	59.2	60.1	62.4	63.3
77.5°	43.7	43.7	44.2	43.3	44.6	44.2	44.6	46.0	47.4	47.4	51.0
80°	30.5	31.4	31.4	31.4	31.9	32.3	31.4	33.7	34.2	34.2	35.5
82.5°	19.6	20.0	19.6	20.5	20.5	21.4	21.0	21.4	22.3	23.2	23.7
85°	10.5	10.5	11.4	11.4	10.9	11.4	10.9	11.4	12.3	12.3	12.8
87.5°	3.6	3.6	3.6	3.6	4.1	3.6	4.1	4.1	3.6	3.6	5.0
90°	9.8	10.9	12.3	15.2	18.1	20.9	23.8	24.7	25.6	26.5	27.4
92.5°	17.6	16.9	17.9	19.9	21.8	23.8	25.8	27.4	28.9	30.5	32.0
95°	24.3	19.8	21.0	23.5	25.9	28.4	30.8	32.3	33.9	35.4	36.9
97.5°	85.5	82.4	76.8	65.5	54.3	43.0	31.8	33.6	35.3	37.1	38.8
100°	185.4	187.6	170.4	136.0	101.6	67.2	32.8	34.6	36.3	38.1	39.8
102.5°	244.7	246.1	226.9	188.5	150.2	111.8	73.4	66.1	58.9	51.6	44.3
105°	305.5	306.7	296.8	276.9	257.0	237.2	217.3	178.3	139.3	100.2	61.2
107.5°	370.2	371.2	372.9	376.2	379.5	382.8	386.1	352.1	318.1	284.2	250.2
110°	435.8	436.7	437.9	440.3	442.8	445.2	447.6	440.3	433.0	425.7	418.4

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	498.4	499.2	500.4	502.8	505.3	507.7	510.1	512.1	514.1	516.0	518.0
115°	560.0	560.7	561.7	563.7	565.7	567.7	569.7	571.9	574.1	576.3	578.5
117.5°	622.4	623.2	623.8	624.9	626.0	627.1	628.2	630.0	631.7	633.5	635.2
120°	680.8	681.8	682.1	682.8	683.5	684.1	684.8	686.6	688.3	690.1	691.8
122.5°	736.6	737.4	737.8	738.7	739.6	740.4	741.3	742.4	743.5	744.6	745.7
125°	789.1	790.0	790.4	791.3	792.2	793.0	793.9	794.3	794.8	795.2	795.7
127.5°	840.7	841.6	842.1	843.2	844.3	845.4	846.5	847.2	847.8	848.5	849.2
130°	888.3	889.2	889.6	890.5	891.4	892.3	893.2	894.1	895.0	895.9	896.8
132.5°	934.0	934.9	935.2	935.9	936.5	937.2	937.8	938.7	939.6	940.5	941.4
135°	978.8	979.5	979.9	980.8	981.7	982.6	983.5	984.2	984.8	985.5	986.2
137.5°	1020.3	1021.2	1021.4	1021.9	1022.3	1022.8	1023.2	1024.3	1025.4	1026.5	1027.6
140°	1058.2	1058.9	1059.2	1059.9	1060.6	1061.2	1061.9	1062.8	1063.7	1064.6	1065.5
142.5°	1094.9	1095.6	1095.9	1096.6	1097.3	1097.9	1098.6	1099.3	1099.9	1100.6	1101.3
145°	1129.6	1130.4	1130.6	1131.1	1131.5	1132.0	1132.4	1132.8	1133.2	1133.7	1134.1
147.5°	1160.6	1161.1	1161.3	1161.8	1162.2	1162.7	1163.1	1163.5	1164.0	1164.4	1164.9
150°	1188.6	1188.9	1189.1	1189.6	1190.0	1190.5	1190.9	1191.3	1191.8	1192.2	1192.7
152.5°	1213.6	1213.7	1213.8	1214.0	1214.3	1214.5	1214.7	1215.6	1216.5	1217.4	1218.3
155°	1235.8	1235.6	1235.7	1235.9	1236.2	1236.4	1236.6	1237.7	1238.8	1239.9	1241.0
157.5°	1257.4	1257.4	1257.3	1257.1	1256.8	1256.6	1256.4	1257.7	1259.1	1260.4	1261.7
160°	1274.4	1274.3	1274.2	1274.0	1273.7	1273.5	1273.3	1274.6	1275.9	1277.2	1278.5
162.5°	1289.5	1289.2	1289.1	1288.9	1288.6	1288.4	1288.2	1289.7	1291.3	1292.8	1294.3
165°	1302.4	1302.1	1302.0	1301.8	1301.5	1301.3	1301.1	1302.9	1304.6	1306.4	1308.1
167.5°	1312.4	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1313.8	1315.5	1317.3	1319.0
170°	1321.3	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1322.7	1324.5	1326.2	1328.0
172.5°	1326.4	1325.9	1326.0	1326.2	1326.5	1326.7	1326.9	1328.7	1330.4	1332.2	1333.9
175°	1331.4	1330.8	1330.9	1331.1	1331.4	1331.6	1331.8	1333.4	1334.9	1336.5	1338.0
177.5°	1333.4	1332.8	1332.9	1333.1	1333.4	1333.6	1333.8	1335.6	1337.4	1339.1	1340.9
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	446.0	446.5	444.6	443.3	446.9	444.6	444.6	445.1	444.2	445.6	445.1
5°	421.0	421.4	418.2	419.1	417.3	416.9	416.4	419.1	418.7	418.2	419.1
7.5°	396.4	396.4	395.0	394.1	394.1	392.7	394.5	394.1	395.0	395.0	396.4
10°	375.8	376.8	374.5	372.2	371.7	372.2	372.2	372.7	373.1	376.3	375.8
12.5°	359.0	357.6	357.2	355.8	353.5	352.6	351.7	356.7	355.3	355.3	355.3
15°	340.3	343.5	343.0	338.9	338.0	339.9	338.9	338.9	343.5	343.0	342.6
17.5°	330.3	329.4	328.5	326.2	326.6	326.2	326.6	326.6	329.4	329.4	329.4
20°	318.9	317.1	317.1	316.2	316.2	314.8	316.6	317.1	318.9	318.9	319.4
22.5°	308.9	307.5	307.5	307.1	308.0	306.1	308.0	308.4	308.4	309.8	309.8
25°	300.2	299.3	299.3	300.2	300.2	300.2	300.2	302.0	300.7	301.1	300.7
27.5°	292.5	292.9	293.4	293.8	293.4	293.8	294.3	295.2	295.7	295.2	294.3
30°	285.2	286.6	287.0	287.0	287.9	288.4	288.8	288.8	289.3	287.9	288.8
32.5°	279.7	279.7	280.6	281.1	282.0	282.5	282.5	283.4	282.9	281.5	282.0
35°	272.0	272.0	273.8	274.7	276.1	275.6	276.1	276.1	276.5	275.6	274.3
37.5°	264.2	265.1	265.1	267.0	267.4	267.9	267.4	268.3	267.9	267.0	266.5
40°	255.1	254.7	255.1	256.5	256.9	256.9	256.9	257.9	257.9	257.9	257.4
42.5°	243.7	245.1	244.6	246.0	245.6	245.6	246.5	247.4	247.8	246.5	246.9
45°	232.8	232.8	233.7	233.7	234.2	234.2	236.0	235.1	236.0	235.1	235.5
47.5°	221.0	221.4	221.4	221.9	222.8	223.7	222.8	223.2	223.2	223.7	222.8
50°	207.7	207.7	208.7	210.0	211.8	210.9	210.5	212.3	210.9	210.9	210.0
52.5°	194.1	195.4	195.9	197.3	198.6	199.1	199.5	198.6	199.1	197.7	198.2
55°	180.9	181.3	183.1	184.5	185.9	185.9	185.4	185.9	186.3	184.5	184.5
57.5°	167.7	169.0	170.8	170.8	172.7	172.7	172.2	172.2	172.7	171.3	170.8
60°	153.5	154.9	157.2	157.2	159.9	160.4	159.5	158.5	158.5	157.2	157.6
62.5°	138.5	139.9	141.2	143.5	145.3	144.4	146.2	144.4	144.9	142.1	142.1
65°	125.3	125.7	128.0	130.3	130.3	131.2	130.3	130.8	129.4	129.4	127.6
67.5°	109.8	109.8	112.1	114.3	116.6	116.6	116.6	115.3	115.3	113.9	113.9
70°	96.1	95.7	97.9	99.3	100.7	101.1	100.2	99.8	98.9	97.5	97.0
72.5°	79.3	80.2	82.5	83.4	85.6	85.2	87.5	84.7	84.7	82.5	82.0
75°	64.2	65.1	67.4	68.8	70.2	70.2	71.5	70.2	68.3	67.4	67.0
77.5°	51.0	50.6	52.4	54.7	55.1	54.7	55.6	55.1	53.3	53.3	52.4
80°	36.4	37.8	39.6	39.2	41.0	40.5	40.5	39.6	39.6	38.3	39.2
82.5°	24.1	25.5	26.0	25.5	26.0	26.9	27.3	26.9	26.9	26.0	26.4
85°	12.8	12.8	13.7	14.1	13.7	13.7	14.1	15.5	14.6	13.7	14.6
87.5°	4.1	3.6	3.6	4.1	3.6	3.6	4.1	4.1	4.6	4.6	4.6
90°	27.8	28.0	28.5	28.9	29.4	29.8	29.4	28.9	28.5	28.0	27.8
92.5°	32.8	32.9	33.1	33.3	33.5	33.7	33.5	33.3	33.1	32.9	32.8
95°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
97.5°	39.7	39.8	40.0	40.3	40.5	40.7	40.5	40.3	40.0	39.8	39.7
100°	40.7	40.8	41.0	41.3	41.5	41.7	41.5	41.3	41.0	40.8	40.7
102.5°	40.7	40.9	41.4	41.8	42.3	42.7	42.3	41.8	41.4	40.9	40.7
105°	41.7	41.9	42.4	42.8	43.3	43.7	43.3	42.8	42.4	41.9	41.7
107.5°	233.2	218.8	189.9	161.0	132.1	103.2	132.1	161.0	189.9	218.8	233.2
110°	414.8	399.0	367.5	336.0	304.4	272.9	304.4	336.0	367.5	399.0	414.8



TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	519.0	518.8	518.4	517.9	517.5	517.1	517.5	517.9	518.4	518.8	519.0
115°	579.6	580.0	580.9	581.8	582.6	583.5	582.6	581.8	580.9	580.0	579.6
117.5°	636.1	636.2	636.4	636.7	636.9	637.1	636.9	636.7	636.4	636.2	636.1
120°	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7	692.7
122.5°	746.3	746.4	746.6	746.9	747.1	747.3	747.1	746.9	746.6	746.4	746.3
125°	795.9	796.1	796.6	797.0	797.5	797.9	797.5	797.0	796.6	796.1	795.9
127.5°	849.5	849.3	848.8	848.4	847.9	847.5	847.9	848.4	848.8	849.3	849.5
130°	897.2	897.0	896.5	896.1	895.6	895.2	895.6	896.1	896.5	897.0	897.2
132.5°	941.8	941.5	940.8	940.1	939.5	938.8	939.5	940.1	940.8	941.5	941.8
135°	986.5	986.2	985.5	984.8	984.2	983.5	984.2	984.8	985.5	986.2	986.5
137.5°	1028.2	1028.0	1027.5	1027.1	1026.6	1026.2	1026.6	1027.1	1027.5	1028.0	1028.2
140°	1065.9	1065.7	1065.2	1064.8	1064.3	1063.9	1064.3	1064.8	1065.2	1065.7	1065.9
142.5°	1101.6	1101.3	1100.6	1099.9	1099.3	1098.6	1099.3	1099.9	1100.6	1101.3	1101.6
145°	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3	1134.3
147.5°	1165.1	1164.6	1163.5	1162.4	1161.3	1160.2	1161.3	1162.4	1163.5	1164.6	1165.1
150°	1192.9	1192.6	1191.9	1191.2	1190.6	1189.9	1190.6	1191.2	1191.9	1192.6	1192.9
152.5°	1218.7	1218.1	1217.0	1215.9	1214.8	1213.7	1214.8	1215.9	1217.0	1218.1	1218.7
155°	1241.5	1240.8	1239.5	1238.2	1236.9	1235.6	1236.9	1238.2	1239.5	1240.8	1241.5
157.5°	1262.4	1261.5	1259.7	1258.0	1256.2	1254.4	1256.2	1258.0	1259.7	1261.5	1262.4
160°	1279.2	1278.4	1276.9	1275.4	1273.8	1272.3	1273.8	1275.4	1276.9	1278.4	1279.2
162.5°	1295.1	1294.4	1293.1	1291.8	1290.5	1289.2	1290.5	1291.8	1293.1	1294.4	1295.1
165°	1309.0	1308.2	1306.7	1305.2	1303.6	1302.1	1303.6	1305.2	1306.7	1308.2	1309.0
167.5°	1319.9	1319.0	1317.3	1315.5	1313.8	1312.0	1313.8	1315.5	1317.3	1319.0	1319.9
170°	1328.9	1328.0	1326.2	1324.5	1322.7	1320.9	1322.7	1324.5	1326.2	1328.0	1328.9
172.5°	1334.8	1333.8	1331.8	1329.9	1327.9	1325.9	1327.9	1329.9	1331.8	1333.8	1334.8
175°	1338.8	1337.9	1336.1	1334.4	1332.6	1330.8	1332.6	1334.4	1336.1	1337.9	1338.8
177.5°	1341.8	1340.7	1338.5	1336.2	1334.0	1331.8	1334.0	1336.2	1338.5	1340.7	1341.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	446.5	447.4	447.8	446.0	444.6	446.9	450.1	452.4	454.2	456.5	457.9
5°	420.0	423.2	423.2	424.1	425.5	427.8	433.7	437.8	441.5	444.2	446.5
7.5°	397.7	400.0	401.4	403.6	405.9	409.1	415.9	421.9	427.3	430.5	434.2
10°	377.7	379.5	381.8	383.1	387.2	391.8	400.5	405.5	411.8	416.9	421.4
12.5°	358.5	364.9	366.3	365.8	369.5	374.5	383.1	390.9	397.7	402.7	407.7
15°	344.9	347.1	349.9	349.4	357.2	358.5	365.8	374.9	384.1	387.2	391.8
17.5°	329.8	333.5	336.2	337.6	339.9	344.9	351.7	358.5	370.4	370.8	382.7
20°	318.0	321.6	323.5	325.3	326.6	332.6	338.5	346.2	355.8	360.8	367.2
22.5°	310.2	312.1	313.4	314.8	316.6	319.8	327.1	335.8	342.1	347.6	351.7
25°	301.1	303.0	304.8	305.7	307.1	308.9	314.3	321.2	330.3	333.9	338.0
27.5°	294.8	294.8	295.7	295.7	297.5	299.3	303.4	309.8	317.1	321.6	327.1
30°	287.9	287.5	287.9	287.5	287.0	289.7	293.4	298.9	303.9	309.3	313.0
32.5°	281.1	280.6	280.6	281.1	279.3	280.6	282.5	287.5	292.9	295.7	299.8
35°	273.8	272.9	272.9	272.9	272.0	271.1	272.9	277.4	281.1	284.7	287.9
37.5°	266.5	265.1	265.1	264.2	263.3	262.0	262.0	265.6	270.6	272.0	276.1
40°	256.5	256.5	255.6	255.1	254.2	253.3	251.9	255.1	259.7	261.0	264.2
42.5°	246.5	245.1	244.6	244.6	244.6	243.3	242.4	244.6	247.4	249.7	251.5
45°	235.1	234.2	234.6	234.2	233.3	232.8	232.3	233.3	236.4	237.4	239.6
47.5°	222.8	222.3	222.3	221.9	221.4	221.9	220.0	222.3	223.2	224.1	226.0
50°	210.0	209.6	209.1	208.7	208.7	209.1	208.7	208.7	210.5	211.4	213.2
52.5°	197.3	195.9	195.9	195.4	195.4	194.5	195.4	195.9	196.8	197.7	198.6
55°	183.6	183.6	182.2	182.2	181.3	181.3	181.8	181.3	183.1	184.1	184.1
57.5°	170.4	168.6	169.0	168.1	167.2	166.7	166.7	167.7	168.6	168.6	169.5
60°	156.3	154.4	154.0	152.2	153.1	151.7	152.2	152.2	154.0	153.1	154.0
62.5°	142.1	139.9	138.5	137.6	137.6	138.0	137.1	136.7	137.6	138.5	140.3
65°	127.1	125.7	124.4	123.0	123.0	122.5	123.5	122.1	121.6	122.1	123.0
67.5°	111.6	110.2	108.9	107.5	108.0	106.6	105.7	107.1	106.1	106.6	107.5
70°	96.6	95.7	92.9	92.0	91.6	92.0	91.6	90.7	92.0	91.6	92.0
72.5°	81.5	80.6	79.3	77.0	77.0	76.5	76.1	76.1	75.6	75.6	75.6
75°	67.0	65.1	63.8	63.3	62.4	62.0	61.5	60.6	61.0	61.5	60.6
77.5°	51.9	49.7	49.2	49.2	47.8	47.8	48.3	47.8	47.4	47.4	47.4
80°	38.3	36.4	36.4	35.5	34.6	34.6	34.6	34.6	34.2	33.7	34.2
82.5°	24.6	24.1	23.7	23.7	24.6	22.8	23.7	23.2	22.8	22.8	22.3
85°	13.7	14.1	13.7	14.1	13.2	13.7	13.7	13.7	13.2	13.7	12.8
87.5°	5.0	5.0	5.0	5.5	5.5	5.5	5.5	5.5	5.9	5.5	5.5
90°	27.4	26.5	25.6	24.7	23.8	20.9	18.1	15.2	12.3	10.9	9.8
92.5°	32.0	30.5	28.9	27.4	25.8	23.8	21.8	19.9	17.9	16.9	17.6
95°	36.9	35.4	33.9	32.3	30.8	28.4	25.9	23.5	21.0	19.8	24.3
97.5°	38.8	37.1	35.3	33.6	31.8	43.0	54.3	65.5	76.8	82.4	85.5
100°	39.8	38.1	36.3	34.6	32.8	67.2	101.6	136.0	170.4	187.6	185.4
102.5°	44.3	51.6	58.9	66.1	73.4	111.8	150.2	188.5	226.9	246.1	244.7
105°	61.2	100.2	139.3	178.3	217.3	237.2	257.0	276.9	296.8	306.7	305.5
107.5°	250.2	284.2	318.1	352.1	386.1	382.8	379.5	376.2	372.9	371.2	370.2
110°	418.4	425.7	433.0	440.3	447.6	445.2	442.8	440.3	437.9	436.7	435.8

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	518.0	516.0	514.1	512.1	510.1	507.7	505.3	502.8	500.4	499.2	498.4
115°	578.5	576.3	574.1	571.9	569.7	567.7	565.7	563.7	561.7	560.7	560.0
117.5°	635.2	633.5	631.7	630.0	628.2	627.1	626.0	624.9	623.8	623.2	622.4
120°	691.8	690.1	688.3	686.6	684.8	684.1	683.5	682.8	682.1	681.8	680.8
122.5°	745.7	744.6	743.5	742.4	741.3	740.4	739.6	738.7	737.8	737.4	736.6
125°	795.7	795.2	794.8	794.3	793.9	793.0	792.2	791.3	790.4	790.0	789.1
127.5°	849.2	848.5	847.8	847.2	846.5	845.4	844.3	843.2	842.1	841.6	840.7
130°	896.8	895.9	895.0	894.1	893.2	892.3	891.4	890.5	889.6	889.2	888.3
132.5°	941.4	940.5	939.6	938.7	937.8	937.2	936.5	935.9	935.2	934.9	934.0
135°	986.2	985.5	984.8	984.2	983.5	982.6	981.7	980.8	979.9	979.5	978.8
137.5°	1027.6	1026.5	1025.4	1024.3	1023.2	1022.8	1022.3	1021.9	1021.4	1021.2	1020.3
140°	1065.5	1064.6	1063.7	1062.8	1061.9	1061.2	1060.6	1059.9	1059.2	1058.9	1058.2
142.5°	1101.3	1100.6	1099.9	1099.3	1098.6	1097.9	1097.3	1096.6	1095.9	1095.6	1094.9
145°	1134.1	1133.7	1133.2	1132.8	1132.4	1132.0	1131.5	1131.1	1130.6	1130.4	1129.6
147.5°	1164.9	1164.4	1164.0	1163.5	1163.1	1162.7	1162.2	1161.8	1161.3	1161.1	1160.6
150°	1192.7	1192.2	1191.8	1191.3	1190.9	1190.5	1190.0	1189.6	1189.1	1188.9	1188.6
152.5°	1218.3	1217.4	1216.5	1215.6	1214.7	1214.5	1214.3	1214.0	1213.8	1213.7	1213.6
155°	1241.0	1239.9	1238.8	1237.7	1236.6	1236.4	1236.2	1235.9	1235.7	1235.6	1235.8
157.5°	1261.7	1260.4	1259.1	1257.7	1256.4	1256.6	1256.8	1257.1	1257.3	1257.4	1257.4
160°	1278.5	1277.2	1275.9	1274.6	1273.3	1273.5	1273.7	1274.0	1274.2	1274.3	1274.4
162.5°	1294.3	1292.8	1291.3	1289.7	1288.2	1288.4	1288.6	1288.9	1289.1	1289.2	1289.5
165°	1308.1	1306.4	1304.6	1302.9	1301.1	1301.3	1301.5	1301.8	1302.0	1302.1	1302.4
167.5°	1319.0	1317.3	1315.5	1313.8	1312.0	1312.0	1312.0	1312.0	1312.0	1312.0	1312.4
170°	1328.0	1326.2	1324.5	1322.7	1320.9	1320.9	1320.9	1320.9	1320.9	1320.9	1321.3
172.5°	1333.9	1332.2	1330.4	1328.7	1326.9	1326.7	1326.5	1326.2	1326.0	1325.9	1326.4
175°	1338.0	1336.5	1334.9	1333.4	1331.8	1331.6	1331.4	1331.1	1330.9	1330.8	1331.4
177.5°	1340.9	1339.1	1337.4	1335.6	1333.8	1333.6	1333.4	1333.1	1332.9	1332.8	1333.4
180°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	470.2	470.2	470.2	470.2
2.5°	460.1	461.5	466.1	471.5
5°	451.0	454.7	461.0	469.7
7.5°	441.0	446.5	455.6	466.5
10°	429.6	437.4	448.7	462.4
12.5°	417.3	427.3	441.9	456.0
15°	409.6	419.6	432.8	448.3
17.5°	394.5	406.4	420.0	441.9
20°	379.0	392.3	410.0	431.9
22.5°	367.2	381.3	398.2	421.4
25°	353.1	367.6	385.9	410.0
27.5°	338.0	352.6	373.1	398.6
30°	326.6	340.8	360.4	387.7
32.5°	313.0	326.6	347.1	375.8
35°	297.5	313.0	332.6	361.7
37.5°	285.6	299.8	320.3	348.1
40°	272.9	285.2	305.2	332.6
42.5°	259.2	272.9	290.2	317.5
45°	246.5	256.5	274.3	300.2
47.5°	232.8	244.2	257.9	277.9
50°	218.2	227.8	242.8	256.5
52.5°	204.1	211.8	224.6	235.1
55°	189.1	196.8	206.4	212.8
57.5°	174.9	180.4	186.8	190.9
60°	157.6	163.1	167.2	171.3
62.5°	142.1	146.2	148.5	150.8
65°	126.2	128.5	129.8	131.7
67.5°	108.9	111.2	111.6	114.3
70°	92.9	93.4	94.3	95.7
72.5°	77.9	78.8	78.4	79.3
75°	62.4	63.3	62.4	63.3
77.5°	47.4	48.3	48.3	49.7
80°	34.2	34.6	35.1	35.1
82.5°	22.3	23.7	22.8	23.2
85°	12.8	13.2	13.2	13.7
87.5°	5.9	6.4	5.9	6.8
90°	7.6	5.4	3.2	1.0
92.5°	18.9	20.2	21.5	22.8
95°	33.4	42.4	51.5	60.5
97.5°	91.7	97.8	104.0	110.2
100°	181.0	176.5	172.1	167.7
102.5°	241.8	238.9	236.1	233.2
105°	303.0	300.6	298.1	295.7
107.5°	368.2	366.2	364.2	362.2
110°	434.0	432.3	430.5	428.7

TEST NUMBER: P1010546

CATALOG NUMBER: S123DIP-B340D1025UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	496.9	495.3	493.8	492.2
115°	558.7	557.4	556.1	554.8
117.5°	620.9	619.4	617.8	616.3
120°	678.8	676.9	674.9	672.9
122.5°	735.1	733.5	732.0	730.4
125°	787.3	785.6	783.8	782.0
127.5°	838.9	837.2	835.4	833.6
130°	886.6	884.8	883.1	881.3
132.5°	932.2	930.5	928.7	926.9
135°	977.5	976.2	974.9	973.6
137.5°	1018.6	1016.8	1015.1	1013.3
140°	1056.9	1055.6	1054.3	1053.0
142.5°	1093.6	1092.3	1091.0	1089.7
145°	1128.1	1126.5	1125.0	1123.4
147.5°	1159.5	1158.4	1157.3	1156.2
150°	1187.9	1187.3	1186.6	1186.0
152.5°	1213.4	1213.1	1212.9	1212.7
155°	1236.3	1236.7	1237.2	1237.6
157.5°	1257.4	1257.4	1257.4	1257.4
160°	1274.6	1274.9	1275.1	1275.3
162.5°	1290.2	1290.8	1291.5	1292.1
165°	1303.1	1303.7	1304.4	1305.0
167.5°	1313.3	1314.2	1315.1	1316.0
170°	1322.2	1323.1	1324.0	1324.9
172.5°	1327.5	1328.6	1329.7	1330.8
175°	1332.5	1333.6	1334.7	1335.8
177.5°	1334.5	1335.6	1336.7	1337.8
180°	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)