

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: P1010559

Luminaire Tested: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010559
REPORT IS A COMBINATION OF REPORTS P989688 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

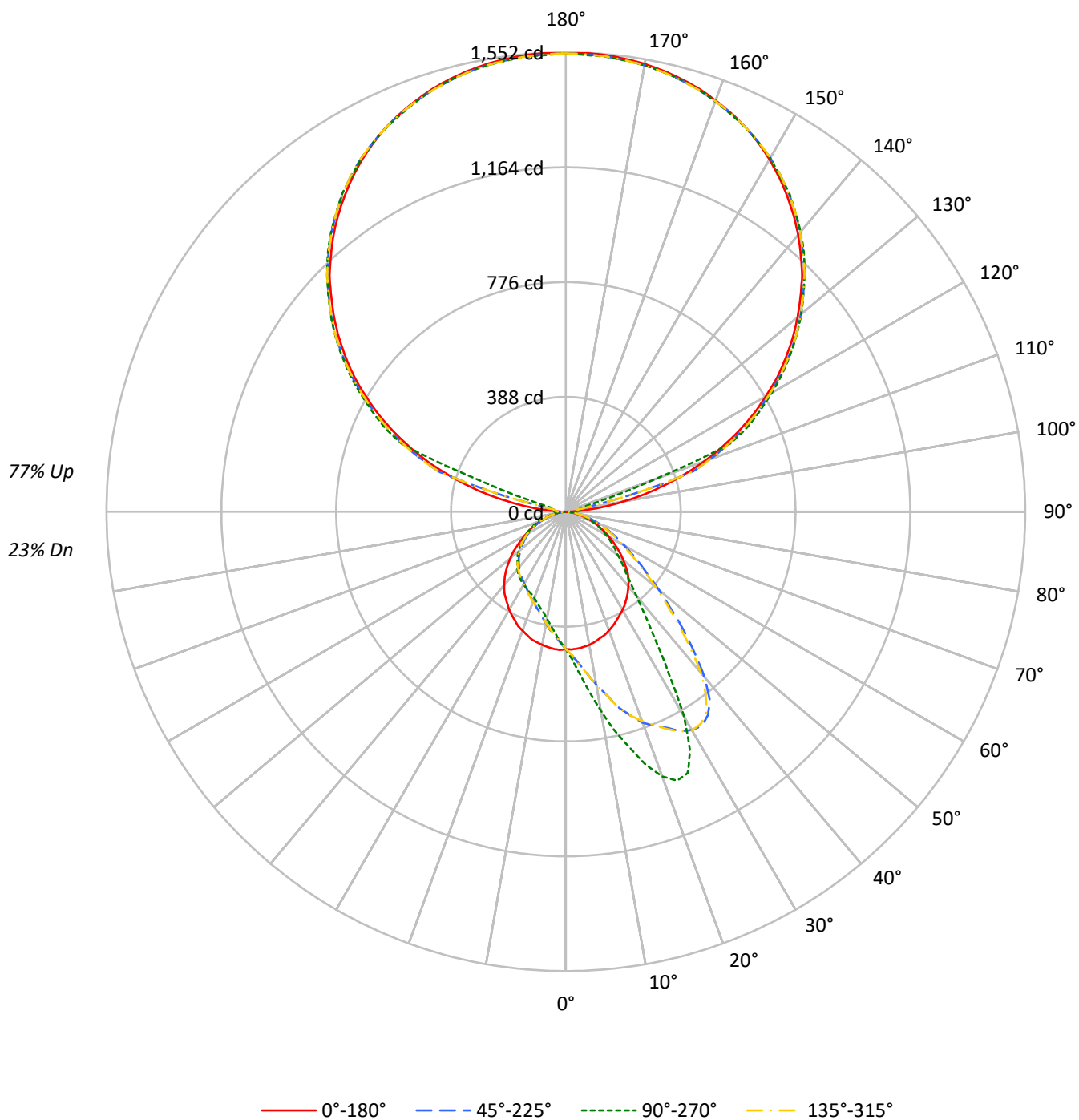
Lumens per Lamp: N/A
Luminaire Lumens: 6127.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V): 120
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31			23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27			20
2	84	77	71	66	74	68	63	59	53	49	47	38	36	34	25	23	23			17
3	76	67	61	55	68	60	54	50	46	42	39	34	31	29	22	20	19			14
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17			12
5	64	53	45	40	57	47	41	36	37	32	29	27	24	21	18	16	14			11
6	59	47	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13			9
7	54	43	35	30	48	38	32	27	30	25	22	22	19	16	15	13	11			8
8	50	38	31	26	44	35	28	24	27	22	19	20	17	15	13	11	10			7
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	12	10	9			7
10	43	32	25	20	38	29	23	19	23	18	15	17	14	12	11	10	8			6

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	0.7
10°-20°	146.6	2.4
20°-30°	246.7	4.0
30°-40°	278.8	4.6
40°-50°	249.7	4.1
50°-60°	201.6	3.3
60°-70°	140.5	2.3
70°-80°	73.7	1.2
80°-90°	20.8	0.3
90°-100°	54.6	0.9
100°-110°	264.1	4.3
110°-120°	647.3	10.6
120°-130°	821.7	13.4
130°-140°	877.8	14.3
140°-150°	820.8	13.4
150°-160°	662.1	10.8
160°-170°	427.3	7.0
170°-180°	147.2	2.4
0°-30°	439.0	7.2
0°-40°	717.8	11.7
0°-60°	1169.1	19.1
0°-90°	1404.1	22.9
90°-120°	966.0	15.8
90°-150°	3486.3	56.9
90°-180°	4723.0	77.1
0°-180°	6127.0	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	34	1	34	1	5
95°	70	44	70	44	70	84
105°	343	51	343	51	343	364
115°	643	677	643	677	643	635
125°	907	925	907	925	907	810
135°	1129	1141	1129	1141	1129	869
145°	1303	1316	1303	1316	1303	816
155°	1435	1433	1435	1433	1435	661
165°	1514	1510	1514	1510	1514	428
175°	1549	1544	1549	1544	1549	147
180°	1549	1549	1549	1549	1549	

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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°	1.2	3.8	6.3	8.9	11.4	12.7	14.4	17.7	21.0	24.3	27.6
92.5°	26.5	25.0	23.4	21.9	20.4	19.6	20.7	23.0	25.3	27.6	29.9
95°	70.2	59.7	49.2	38.7	28.2	23.0	24.4	27.2	30.1	32.9	35.7
97.5°	127.8	120.6	113.4	106.3	99.1	95.5	89.0	75.9	62.9	49.8	36.8
100°	194.5	199.6	204.7	209.8	214.9	217.5	197.6	157.7	117.8	77.9	38.0
102.5°	270.5	273.8	277.1	280.4	283.7	285.4	263.2	218.7	174.2	129.7	85.2
105°	343.0	345.8	348.6	351.5	354.3	355.7	344.2	321.2	298.1	275.1	252.1
107.5°	420.1	422.4	424.7	427.0	429.3	430.5	432.4	436.2	440.1	443.9	447.7
110°	497.2	499.2	501.3	503.3	505.4	506.4	507.8	510.6	513.5	516.3	519.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	570.9	572.7	574.5	576.2	578.0	578.9	580.3	583.1	586.0	588.8	591.6
115°	643.4	644.9	646.5	648.0	649.5	650.3	651.5	653.8	656.1	658.4	660.7
117.5°	714.8	716.6	718.4	720.1	721.9	722.8	723.4	724.7	726.0	727.3	728.6
120°	780.4	782.7	785.0	787.3	789.6	790.7	791.1	791.9	792.6	793.4	794.2
122.5°	847.1	848.9	850.7	852.5	854.3	855.2	855.7	856.7	857.8	858.8	859.8
125°	907.0	909.0	911.1	913.1	915.2	916.2	916.7	917.7	918.8	919.8	920.8
127.5°	966.8	968.8	970.9	972.9	975.0	976.0	976.6	977.9	979.2	980.5	981.8
130°	1022.1	1024.1	1026.2	1028.2	1030.3	1031.3	1031.8	1032.8	1033.9	1034.9	1035.9
132.5°	1075.0	1077.0	1079.1	1081.1	1083.2	1084.2	1084.6	1085.4	1086.1	1086.9	1087.7
135°	1129.1	1130.6	1132.2	1133.7	1135.2	1136.0	1136.5	1137.5	1138.6	1139.6	1140.6
137.5°	1175.1	1177.2	1179.2	1181.3	1183.4	1184.4	1184.7	1185.2	1185.7	1186.2	1186.7
140°	1221.2	1222.7	1224.3	1225.8	1227.3	1228.1	1228.5	1229.2	1230.0	1230.7	1231.5
142.5°	1263.8	1265.3	1266.9	1268.4	1269.9	1270.7	1271.1	1271.8	1272.6	1273.3	1274.1
145°	1302.9	1304.7	1306.5	1308.3	1310.1	1311.0	1311.3	1311.8	1312.3	1312.8	1313.3
147.5°	1340.9	1342.2	1343.4	1344.7	1346.0	1346.6	1346.9	1347.4	1347.9	1348.4	1348.9
150°	1375.4	1376.2	1377.0	1377.7	1378.5	1378.9	1379.2	1379.7	1380.2	1380.7	1381.2
152.5°	1406.5	1406.7	1407.0	1407.2	1407.5	1407.6	1407.7	1408.0	1408.3	1408.5	1408.8
155°	1435.3	1434.8	1434.3	1433.8	1433.3	1433.0	1433.1	1433.4	1433.6	1433.9	1434.1
157.5°	1458.3	1458.3	1458.3	1458.3	1458.3	1458.3	1458.2	1457.9	1457.6	1457.4	1457.1
160°	1479.0	1478.8	1478.5	1478.3	1478.0	1477.9	1477.8	1477.5	1477.2	1477.0	1476.7
162.5°	1498.6	1497.8	1497.0	1496.3	1495.5	1495.1	1495.0	1494.7	1494.5	1494.2	1494.0
165°	1513.5	1512.7	1512.0	1511.2	1510.5	1510.1	1510.0	1509.7	1509.4	1509.2	1508.9
167.5°	1526.2	1525.2	1524.2	1523.1	1522.1	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6
170°	1536.6	1535.6	1534.5	1533.5	1532.4	1531.9	1531.9	1531.9	1531.9	1531.9	1531.9
172.5°	1543.5	1542.2	1540.9	1539.6	1538.3	1537.7	1537.8	1538.1	1538.4	1538.6	1538.9
175°	1549.2	1547.9	1546.7	1545.4	1544.1	1543.5	1543.6	1543.9	1544.1	1544.4	1544.6
177.5°	1551.5	1550.2	1549.0	1547.7	1546.4	1545.8	1545.9	1546.2	1546.4	1546.7	1546.9
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

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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°	28.6	29.6	30.7	31.7	32.2	32.5	33.0	33.5	34.0	34.5	34.0
92.5°	31.7	33.5	35.3	37.1	38.0	38.1	38.4	38.6	38.9	39.1	38.9
95°	37.5	39.3	41.0	42.8	43.7	43.7	43.7	43.7	43.7	43.7	43.7
97.5°	38.8	40.9	42.9	45.0	46.0	46.1	46.4	46.7	46.9	47.2	46.9
100°	40.0	42.1	44.1	46.2	47.2	47.3	47.6	47.8	48.1	48.3	48.1
102.5°	76.8	68.3	59.9	51.4	47.2	47.5	48.0	48.5	49.0	49.5	49.0
105°	206.8	161.5	116.2	70.9	48.3	48.6	49.1	49.6	50.1	50.6	50.1
107.5°	408.3	368.9	329.6	290.2	270.5	253.7	220.2	186.7	153.2	119.7	153.2
110°	510.7	502.2	493.8	485.3	481.1	462.8	426.2	389.7	353.1	316.5	353.1

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	593.9	596.2	598.5	600.8	602.0	601.7	601.2	600.7	600.2	599.7	600.2
115°	663.3	665.8	668.4	670.9	672.2	672.7	673.7	674.8	675.8	676.8	675.8
117.5°	730.6	732.7	734.7	736.8	737.8	737.9	738.2	738.4	738.7	738.9	738.7
120°	796.2	798.3	800.3	802.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4
122.5°	861.1	862.3	863.6	864.9	865.5	865.6	865.9	866.2	866.4	866.7	866.4
125°	921.3	921.8	922.3	922.8	923.1	923.4	923.9	924.4	924.9	925.4	924.9
127.5°	982.6	983.3	984.1	984.8	985.2	984.9	984.4	983.9	983.4	982.9	983.4
130°	1036.9	1037.9	1039.0	1040.0	1040.5	1040.2	1039.7	1039.2	1038.7	1038.2	1038.7
132.5°	1088.7	1089.7	1090.8	1091.8	1092.3	1091.9	1091.1	1090.4	1089.6	1088.8	1089.6
135°	1141.4	1142.2	1142.9	1143.7	1144.1	1143.7	1142.9	1142.2	1141.4	1140.6	1141.4
137.5°	1188.0	1189.2	1190.5	1191.8	1192.4	1192.1	1191.6	1191.1	1190.6	1190.1	1190.6
140°	1232.5	1233.5	1234.6	1235.6	1236.1	1235.8	1235.3	1234.8	1234.3	1233.8	1234.3
142.5°	1274.9	1275.7	1276.4	1277.2	1277.6	1277.2	1276.4	1275.7	1274.9	1274.1	1274.9
145°	1313.8	1314.3	1314.8	1315.3	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6
147.5°	1349.4	1349.9	1350.4	1350.9	1351.2	1350.6	1349.3	1348.0	1346.8	1345.5	1346.8
150°	1381.7	1382.2	1382.7	1383.2	1383.5	1383.1	1382.3	1381.6	1380.8	1380.0	1380.8
152.5°	1409.8	1410.8	1411.9	1412.9	1413.4	1412.8	1411.5	1410.2	1408.9	1407.6	1408.9
155°	1435.4	1436.7	1438.0	1439.3	1439.9	1439.1	1437.6	1436.1	1434.5	1433.0	1434.5
157.5°	1458.6	1460.2	1461.7	1463.2	1464.0	1463.0	1460.9	1458.9	1456.8	1454.8	1456.8
160°	1478.2	1479.8	1481.3	1482.8	1483.6	1482.7	1480.9	1479.2	1477.4	1475.6	1477.4
162.5°	1495.8	1497.6	1499.3	1501.1	1502.0	1501.2	1499.7	1498.2	1496.6	1495.1	1496.6
165°	1510.9	1513.0	1515.0	1517.1	1518.1	1517.2	1515.4	1513.7	1511.9	1510.1	1511.9
167.5°	1523.6	1525.7	1527.7	1529.8	1530.8	1529.8	1527.7	1525.7	1523.6	1521.6	1523.6
170°	1534.0	1536.0	1538.1	1540.2	1541.2	1540.2	1538.1	1536.0	1534.0	1531.9	1534.0
172.5°	1540.9	1543.0	1545.0	1547.1	1548.1	1546.9	1544.6	1542.3	1540.0	1537.7	1540.0
175°	1546.4	1548.2	1550.0	1551.8	1552.7	1551.7	1549.6	1547.6	1545.5	1543.5	1545.5
177.5°	1548.9	1551.0	1553.0	1555.1	1556.1	1554.8	1552.3	1549.7	1547.2	1544.6	1547.2
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-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°	33.5	33.0	32.5	32.2	31.7	30.7	29.6	28.6	27.6	24.3	21.0
92.5°	38.6	38.4	38.1	38.0	37.1	35.3	33.5	31.7	29.9	27.6	25.3
95°	43.7	43.7	43.7	43.7	42.8	41.0	39.3	37.5	35.7	32.9	30.1
97.5°	46.7	46.4	46.1	46.0	45.0	42.9	40.9	38.8	36.8	49.8	62.9
100°	47.8	47.6	47.3	47.2	46.2	44.1	42.1	40.0	38.0	77.9	117.8
102.5°	48.5	48.0	47.5	47.2	51.4	59.9	68.3	76.8	85.2	129.7	174.2
105°	49.6	49.1	48.6	48.3	70.9	116.2	161.5	206.8	252.1	275.1	298.1
107.5°	186.7	220.2	253.7	270.5	290.2	329.6	368.9	408.3	447.7	443.9	440.1
110°	389.7	426.2	462.8	481.1	485.3	493.8	502.2	510.7	519.1	516.3	513.5

TEST NUMBER: P1010559

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	600.7	601.2	601.7	602.0	600.8	598.5	596.2	593.9	591.6	588.8	586.0
115°	674.8	673.7	672.7	672.2	670.9	668.4	665.8	663.3	660.7	658.4	656.1
117.5°	738.4	738.2	737.9	737.8	736.8	734.7	732.7	730.6	728.6	727.3	726.0
120°	803.4	803.4	803.4	803.4	802.4	800.3	798.3	796.2	794.2	793.4	792.6
122.5°	866.2	865.9	865.6	865.5	864.9	863.6	862.3	861.1	859.8	858.8	857.8
125°	924.4	923.9	923.4	923.1	922.8	922.3	921.8	921.3	920.8	919.8	918.8
127.5°	983.9	984.4	984.9	985.2	984.8	984.1	983.3	982.6	981.8	980.5	979.2
130°	1039.2	1039.7	1040.2	1040.5	1040.0	1039.0	1037.9	1036.9	1035.9	1034.9	1033.9
132.5°	1090.4	1091.1	1091.9	1092.3	1091.8	1090.8	1089.7	1088.7	1087.7	1086.9	1086.1
135°	1142.2	1142.9	1143.7	1144.1	1143.7	1142.9	1142.2	1141.4	1140.6	1139.6	1138.6
137.5°	1191.1	1191.6	1192.1	1192.4	1191.8	1190.5	1189.2	1188.0	1186.7	1186.2	1185.7
140°	1234.8	1235.3	1235.8	1236.1	1235.6	1234.6	1233.5	1232.5	1231.5	1230.7	1230.0
142.5°	1275.7	1276.4	1277.2	1277.6	1277.2	1276.4	1275.7	1274.9	1274.1	1273.3	1272.6
145°	1315.6	1315.6	1315.6	1315.6	1315.3	1314.8	1314.3	1313.8	1313.3	1312.8	1312.3
147.5°	1348.0	1349.3	1350.6	1351.2	1350.9	1350.4	1349.9	1349.4	1348.9	1348.4	1347.9
150°	1381.6	1382.3	1383.1	1383.5	1383.2	1382.7	1382.2	1381.7	1381.2	1380.7	1380.2
152.5°	1410.2	1411.5	1412.8	1413.4	1412.9	1411.9	1410.8	1409.8	1408.8	1408.5	1408.3
155°	1436.1	1437.6	1439.1	1439.9	1439.3	1438.0	1436.7	1435.4	1434.1	1433.9	1433.6
157.5°	1458.9	1460.9	1463.0	1464.0	1463.2	1461.7	1460.2	1458.6	1457.1	1457.4	1457.6
160°	1479.2	1480.9	1482.7	1483.6	1482.8	1481.3	1479.8	1478.2	1476.7	1477.0	1477.2
162.5°	1498.2	1499.7	1501.2	1502.0	1501.1	1499.3	1497.6	1495.8	1494.0	1494.2	1494.5
165°	1513.7	1515.4	1517.2	1518.1	1517.1	1515.0	1513.0	1510.9	1508.9	1509.2	1509.4
167.5°	1525.7	1527.7	1529.8	1530.8	1529.8	1527.7	1525.7	1523.6	1521.6	1521.6	1521.6
170°	1536.0	1538.1	1540.2	1541.2	1540.2	1538.1	1536.0	1534.0	1531.9	1531.9	1531.9
172.5°	1542.3	1544.6	1546.9	1548.1	1547.1	1545.0	1543.0	1540.9	1538.9	1538.6	1538.4
175°	1547.6	1549.6	1551.7	1552.7	1551.8	1550.0	1548.2	1546.4	1544.6	1544.4	1544.1
177.5°	1549.7	1552.3	1554.8	1556.1	1555.1	1553.0	1551.0	1548.9	1546.9	1546.7	1546.4
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

TEST NUMBER: P1010559

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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°	17.7	14.4	12.7	11.4	8.9	6.3	3.8	1.2	3.8	6.3	8.9
92.5°	23.0	20.7	19.6	20.4	21.9	23.4	25.0	26.5	25.0	23.4	21.9
95°	27.2	24.4	23.0	28.2	38.7	49.2	59.7	70.2	59.7	49.2	38.7
97.5°	75.9	89.0	95.5	99.1	106.3	113.4	120.6	127.8	120.6	113.4	106.3
100°	157.7	197.6	217.5	214.9	209.8	204.7	199.6	194.5	199.6	204.7	209.8
102.5°	218.7	263.2	285.4	283.7	280.4	277.1	273.8	270.5	273.8	277.1	280.4
105°	321.2	344.2	355.7	354.3	351.5	348.6	345.8	343.0	345.8	348.6	351.5
107.5°	436.2	432.4	430.5	429.3	427.0	424.7	422.4	420.1	422.4	424.7	427.0
110°	510.6	507.8	506.4	505.4	503.3	501.3	499.2	497.2	499.2	501.3	503.3

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	583.1	580.3	578.9	578.0	576.2	574.5	572.7	570.9	572.7	574.5	576.2
115°	653.8	651.5	650.3	649.5	648.0	646.5	644.9	643.4	644.9	646.5	648.0
117.5°	724.7	723.4	722.8	721.9	720.1	718.4	716.6	714.8	716.6	718.4	720.1
120°	791.9	791.1	790.7	789.6	787.3	785.0	782.7	780.4	782.7	785.0	787.3
122.5°	856.7	855.7	855.2	854.3	852.5	850.7	848.9	847.1	848.9	850.7	852.5
125°	917.7	916.7	916.2	915.2	913.1	911.1	909.0	907.0	909.0	911.1	913.1
127.5°	977.9	976.6	976.0	975.0	972.9	970.9	968.8	966.8	968.8	970.9	972.9
130°	1032.8	1031.8	1031.3	1030.3	1028.2	1026.2	1024.1	1022.1	1024.1	1026.2	1028.2
132.5°	1085.4	1084.6	1084.2	1083.2	1081.1	1079.1	1077.0	1075.0	1077.0	1079.1	1081.1
135°	1137.5	1136.5	1136.0	1135.2	1133.7	1132.2	1130.6	1129.1	1130.6	1132.2	1133.7
137.5°	1185.2	1184.7	1184.4	1183.4	1181.3	1179.2	1177.2	1175.1	1177.2	1179.2	1181.3
140°	1229.2	1228.5	1228.1	1227.3	1225.8	1224.3	1222.7	1221.2	1222.7	1224.3	1225.8
142.5°	1271.8	1271.1	1270.7	1269.9	1268.4	1266.9	1265.3	1263.8	1265.3	1266.9	1268.4
145°	1311.8	1311.3	1311.0	1310.1	1308.3	1306.5	1304.7	1302.9	1304.7	1306.5	1308.3
147.5°	1347.4	1346.9	1346.6	1346.0	1344.7	1343.4	1342.2	1340.9	1342.2	1343.4	1344.7
150°	1379.7	1379.2	1378.9	1378.5	1377.7	1377.0	1376.2	1375.4	1376.2	1377.0	1377.7
152.5°	1408.0	1407.7	1407.6	1407.5	1407.2	1407.0	1406.7	1406.5	1406.7	1407.0	1407.2
155°	1433.4	1433.1	1433.0	1433.3	1433.8	1434.3	1434.8	1435.3	1434.8	1434.3	1433.8
157.5°	1457.9	1458.2	1458.3	1458.3	1458.3	1458.3	1458.3	1458.3	1458.3	1458.3	1458.3
160°	1477.5	1477.8	1477.9	1478.0	1478.3	1478.5	1478.8	1479.0	1478.8	1478.5	1478.3
162.5°	1494.7	1495.0	1495.1	1495.5	1496.3	1497.0	1497.8	1498.6	1497.8	1497.0	1496.3
165°	1509.7	1510.0	1510.1	1510.5	1511.2	1512.0	1512.7	1513.5	1512.7	1512.0	1511.2
167.5°	1521.6	1521.6	1521.6	1522.1	1523.1	1524.2	1525.2	1526.2	1525.2	1524.2	1523.1
170°	1531.9	1531.9	1531.9	1532.4	1533.5	1534.5	1535.6	1536.6	1535.6	1534.5	1533.5
172.5°	1538.1	1537.8	1537.7	1538.3	1539.6	1540.9	1542.2	1543.5	1542.2	1540.9	1539.6
175°	1543.9	1543.6	1543.5	1544.1	1545.4	1546.7	1547.9	1549.2	1547.9	1546.7	1545.4
177.5°	1546.2	1545.9	1545.8	1546.4	1547.7	1549.0	1550.2	1551.5	1550.2	1549.0	1547.7
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-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°	11.4	12.7	14.4	17.7	21.0	24.3	27.6	28.6	29.6	30.7	31.7
92.5°	20.4	19.6	20.7	23.0	25.3	27.6	29.9	31.7	33.5	35.3	37.1
95°	28.2	23.0	24.4	27.2	30.1	32.9	35.7	37.5	39.3	41.0	42.8
97.5°	99.1	95.5	89.0	75.9	62.9	49.8	36.8	38.8	40.9	42.9	45.0
100°	214.9	217.5	197.6	157.7	117.8	77.9	38.0	40.0	42.1	44.1	46.2
102.5°	283.7	285.4	263.2	218.7	174.2	129.7	85.2	76.8	68.3	59.9	51.4
105°	354.3	355.7	344.2	321.2	298.1	275.1	252.1	206.8	161.5	116.2	70.9
107.5°	429.3	430.5	432.4	436.2	440.1	443.9	447.7	408.3	368.9	329.6	290.2
110°	505.4	506.4	507.8	510.6	513.5	516.3	519.1	510.7	502.2	493.8	485.3

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	578.0	578.9	580.3	583.1	586.0	588.8	591.6	593.9	596.2	598.5	600.8
115°	649.5	650.3	651.5	653.8	656.1	658.4	660.7	663.3	665.8	668.4	670.9
117.5°	721.9	722.8	723.4	724.7	726.0	727.3	728.6	730.6	732.7	734.7	736.8
120°	789.6	790.7	791.1	791.9	792.6	793.4	794.2	796.2	798.3	800.3	802.4
122.5°	854.3	855.2	855.7	856.7	857.8	858.8	859.8	861.1	862.3	863.6	864.9
125°	915.2	916.2	916.7	917.7	918.8	919.8	920.8	921.3	921.8	922.3	922.8
127.5°	975.0	976.0	976.6	977.9	979.2	980.5	981.8	982.6	983.3	984.1	984.8
130°	1030.3	1031.3	1031.8	1032.8	1033.9	1034.9	1035.9	1036.9	1037.9	1039.0	1040.0
132.5°	1083.2	1084.2	1084.6	1085.4	1086.1	1086.9	1087.7	1088.7	1089.7	1090.8	1091.8
135°	1135.2	1136.0	1136.5	1137.5	1138.6	1139.6	1140.6	1141.4	1142.2	1142.9	1143.7
137.5°	1183.4	1184.4	1184.7	1185.2	1185.7	1186.2	1186.7	1188.0	1189.2	1190.5	1191.8
140°	1227.3	1228.1	1228.5	1229.2	1230.0	1230.7	1231.5	1232.5	1233.5	1234.6	1235.6
142.5°	1269.9	1270.7	1271.1	1271.8	1272.6	1273.3	1274.1	1274.9	1275.7	1276.4	1277.2
145°	1310.1	1311.0	1311.3	1311.8	1312.3	1312.8	1313.3	1313.8	1314.3	1314.8	1315.3
147.5°	1346.0	1346.6	1346.9	1347.4	1347.9	1348.4	1348.9	1349.4	1349.9	1350.4	1350.9
150°	1378.5	1378.9	1379.2	1379.7	1380.2	1380.7	1381.2	1381.7	1382.2	1382.7	1383.2
152.5°	1407.5	1407.6	1407.7	1408.0	1408.3	1408.5	1408.8	1409.8	1410.8	1411.9	1412.9
155°	1433.3	1433.0	1433.1	1433.4	1433.6	1433.9	1434.1	1435.4	1436.7	1438.0	1439.3
157.5°	1458.3	1458.3	1458.2	1457.9	1457.6	1457.4	1457.1	1458.6	1460.2	1461.7	1463.2
160°	1478.0	1477.9	1477.8	1477.5	1477.2	1477.0	1476.7	1478.2	1479.8	1481.3	1482.8
162.5°	1495.5	1495.1	1495.0	1494.7	1494.5	1494.2	1494.0	1495.8	1497.6	1499.3	1501.1
165°	1510.5	1510.1	1510.0	1509.7	1509.4	1509.2	1508.9	1510.9	1513.0	1515.0	1517.1
167.5°	1522.1	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1523.6	1525.7	1527.7	1529.8
170°	1532.4	1531.9	1531.9	1531.9	1531.9	1531.9	1531.9	1534.0	1536.0	1538.1	1540.2
172.5°	1538.3	1537.7	1537.8	1538.1	1538.4	1538.6	1538.9	1540.9	1543.0	1545.0	1547.1
175°	1544.1	1543.5	1543.6	1543.9	1544.1	1544.4	1544.6	1546.4	1548.2	1550.0	1551.8
177.5°	1546.4	1545.8	1545.9	1546.2	1546.4	1546.7	1546.9	1548.9	1551.0	1553.0	1555.1
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

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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°	32.2	32.5	33.0	33.5	34.0	34.5	34.0	33.5	33.0	32.5	32.2
92.5°	38.0	38.1	38.4	38.6	38.9	39.1	38.9	38.6	38.4	38.1	38.0
95°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
97.5°	46.0	46.1	46.4	46.7	46.9	47.2	46.9	46.7	46.4	46.1	46.0
100°	47.2	47.3	47.6	47.8	48.1	48.3	48.1	47.8	47.6	47.3	47.2
102.5°	47.2	47.5	48.0	48.5	49.0	49.5	49.0	48.5	48.0	47.5	47.2
105°	48.3	48.6	49.1	49.6	50.1	50.6	50.1	49.6	49.1	48.6	48.3
107.5°	270.5	253.7	220.2	186.7	153.2	119.7	153.2	186.7	220.2	253.7	270.5
110°	481.1	462.8	426.2	389.7	353.1	316.5	353.1	389.7	426.2	462.8	481.1

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	602.0	601.7	601.2	600.7	600.2	599.7	600.2	600.7	601.2	601.7	602.0
115°	672.2	672.7	673.7	674.8	675.8	676.8	675.8	674.8	673.7	672.7	672.2
117.5°	737.8	737.9	738.2	738.4	738.7	738.9	738.7	738.4	738.2	737.9	737.8
120°	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4	803.4
122.5°	865.5	865.6	865.9	866.2	866.4	866.7	866.4	866.2	865.9	865.6	865.5
125°	923.1	923.4	923.9	924.4	924.9	925.4	924.9	924.4	923.9	923.4	923.1
127.5°	985.2	984.9	984.4	983.9	983.4	982.9	983.4	983.9	984.4	984.9	985.2
130°	1040.5	1040.2	1039.7	1039.2	1038.7	1038.2	1038.7	1039.2	1039.7	1040.2	1040.5
132.5°	1092.3	1091.9	1091.1	1090.4	1089.6	1088.8	1089.6	1090.4	1091.1	1091.9	1092.3
135°	1144.1	1143.7	1142.9	1142.2	1141.4	1140.6	1141.4	1142.2	1142.9	1143.7	1144.1
137.5°	1192.4	1192.1	1191.6	1191.1	1190.6	1190.1	1190.6	1191.1	1191.6	1192.1	1192.4
140°	1236.1	1235.8	1235.3	1234.8	1234.3	1233.8	1234.3	1234.8	1235.3	1235.8	1236.1
142.5°	1277.6	1277.2	1276.4	1275.7	1274.9	1274.1	1274.9	1275.7	1276.4	1277.2	1277.6
145°	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6	1315.6
147.5°	1351.2	1350.6	1349.3	1348.0	1346.8	1345.5	1346.8	1348.0	1349.3	1350.6	1351.2
150°	1383.5	1383.1	1382.3	1381.6	1380.8	1380.0	1380.8	1381.6	1382.3	1383.1	1383.5
152.5°	1413.4	1412.8	1411.5	1410.2	1408.9	1407.6	1408.9	1410.2	1411.5	1412.8	1413.4
155°	1439.9	1439.1	1437.6	1436.1	1434.5	1433.0	1434.5	1436.1	1437.6	1439.1	1439.9
157.5°	1464.0	1463.0	1460.9	1458.9	1456.8	1454.8	1456.8	1458.9	1460.9	1463.0	1464.0
160°	1483.6	1482.7	1480.9	1479.2	1477.4	1475.6	1477.4	1479.2	1480.9	1482.7	1483.6
162.5°	1502.0	1501.2	1499.7	1498.2	1496.6	1495.1	1496.6	1498.2	1499.7	1501.2	1502.0
165°	1518.1	1517.2	1515.4	1513.7	1511.9	1510.1	1511.9	1513.7	1515.4	1517.2	1518.1
167.5°	1530.8	1529.8	1527.7	1525.7	1523.6	1521.6	1523.6	1525.7	1527.7	1529.8	1530.8
170°	1541.2	1540.2	1538.1	1536.0	1534.0	1531.9	1534.0	1536.0	1538.1	1540.2	1541.2
172.5°	1548.1	1546.9	1544.6	1542.3	1540.0	1537.7	1540.0	1542.3	1544.6	1546.9	1548.1
175°	1552.7	1551.7	1549.6	1547.6	1545.5	1543.5	1545.5	1547.6	1549.6	1551.7	1552.7
177.5°	1556.1	1554.8	1552.3	1549.7	1547.2	1544.6	1547.2	1549.7	1552.3	1554.8	1556.1
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

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°	31.7	30.7	29.6	28.6	27.6	24.3	21.0	17.7	14.4	12.7	11.4
92.5°	37.1	35.3	33.5	31.7	29.9	27.6	25.3	23.0	20.7	19.6	20.4
95°	42.8	41.0	39.3	37.5	35.7	32.9	30.1	27.2	24.4	23.0	28.2
97.5°	45.0	42.9	40.9	38.8	36.8	49.8	62.9	75.9	89.0	95.5	99.1
100°	46.2	44.1	42.1	40.0	38.0	77.9	117.8	157.7	197.6	217.5	214.9
102.5°	51.4	59.9	68.3	76.8	85.2	129.7	174.2	218.7	263.2	285.4	283.7
105°	70.9	116.2	161.5	206.8	252.1	275.1	298.1	321.2	344.2	355.7	354.3
107.5°	290.2	329.6	368.9	408.3	447.7	443.9	440.1	436.2	432.4	430.5	429.3
110°	485.3	493.8	502.2	510.7	519.1	516.3	513.5	510.6	507.8	506.4	505.4

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	600.8	598.5	596.2	593.9	591.6	588.8	586.0	583.1	580.3	578.9	578.0
115°	670.9	668.4	665.8	663.3	660.7	658.4	656.1	653.8	651.5	650.3	649.5
117.5°	736.8	734.7	732.7	730.6	728.6	727.3	726.0	724.7	723.4	722.8	721.9
120°	802.4	800.3	798.3	796.2	794.2	793.4	792.6	791.9	791.1	790.7	789.6
122.5°	864.9	863.6	862.3	861.1	859.8	858.8	857.8	856.7	855.7	855.2	854.3
125°	922.8	922.3	921.8	921.3	920.8	919.8	918.8	917.7	916.7	916.2	915.2
127.5°	984.8	984.1	983.3	982.6	981.8	980.5	979.2	977.9	976.6	976.0	975.0
130°	1040.0	1039.0	1037.9	1036.9	1035.9	1034.9	1033.9	1032.8	1031.8	1031.3	1030.3
132.5°	1091.8	1090.8	1089.7	1088.7	1087.7	1086.9	1086.1	1085.4	1084.6	1084.2	1083.2
135°	1143.7	1142.9	1142.2	1141.4	1140.6	1139.6	1138.6	1137.5	1136.5	1136.0	1135.2
137.5°	1191.8	1190.5	1189.2	1188.0	1186.7	1186.2	1185.7	1185.2	1184.7	1184.4	1183.4
140°	1235.6	1234.6	1233.5	1232.5	1231.5	1230.7	1230.0	1229.2	1228.5	1228.1	1227.3
142.5°	1277.2	1276.4	1275.7	1274.9	1274.1	1273.3	1272.6	1271.8	1271.1	1270.7	1269.9
145°	1315.3	1314.8	1314.3	1313.8	1313.3	1312.8	1312.3	1311.8	1311.3	1311.0	1310.1
147.5°	1350.9	1350.4	1349.9	1349.4	1348.9	1348.4	1347.9	1347.4	1346.9	1346.6	1346.0
150°	1383.2	1382.7	1382.2	1381.7	1381.2	1380.7	1380.2	1379.7	1379.2	1378.9	1378.5
152.5°	1412.9	1411.9	1410.8	1409.8	1408.8	1408.5	1408.3	1408.0	1407.7	1407.6	1407.5
155°	1439.3	1438.0	1436.7	1435.4	1434.1	1433.9	1433.6	1433.4	1433.1	1433.0	1433.3
157.5°	1463.2	1461.7	1460.2	1458.6	1457.1	1457.4	1457.6	1457.9	1458.2	1458.3	1458.3
160°	1482.8	1481.3	1479.8	1478.2	1476.7	1477.0	1477.2	1477.5	1477.8	1477.9	1478.0
162.5°	1501.1	1499.3	1497.6	1495.8	1494.0	1494.2	1494.5	1494.7	1495.0	1495.1	1495.5
165°	1517.1	1515.0	1513.0	1510.9	1508.9	1509.2	1509.4	1509.7	1510.0	1510.1	1510.5
167.5°	1529.8	1527.7	1525.7	1523.6	1521.6	1521.6	1521.6	1521.6	1521.6	1521.6	1522.1
170°	1540.2	1538.1	1536.0	1534.0	1531.9	1531.9	1531.9	1531.9	1531.9	1531.9	1532.4
172.5°	1547.1	1545.0	1543.0	1540.9	1538.9	1538.6	1538.4	1538.1	1537.8	1537.7	1538.3
175°	1551.8	1550.0	1548.2	1546.4	1544.6	1544.4	1544.1	1543.9	1543.6	1543.5	1544.1
177.5°	1555.1	1553.0	1551.0	1548.9	1546.9	1546.7	1546.4	1546.2	1545.9	1545.8	1546.4
180°	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2	1549.2

TEST NUMBER: P1010559

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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°	8.9	6.3	3.8	1.2
92.5°	21.9	23.4	25.0	26.5
95°	38.7	49.2	59.7	70.2
97.5°	106.3	113.4	120.6	127.8
100°	209.8	204.7	199.6	194.5
102.5°	280.4	277.1	273.8	270.5
105°	351.5	348.6	345.8	343.0
107.5°	427.0	424.7	422.4	420.1
110°	503.3	501.3	499.2	497.2

TEST NUMBER: P1010559

CATALOG NUMBER: S123DIP-B340D1195UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	576.2	574.5	572.7	570.9
115°	648.0	646.5	644.9	643.4
117.5°	720.1	718.4	716.6	714.8
120°	787.3	785.0	782.7	780.4
122.5°	852.5	850.7	848.9	847.1
125°	913.1	911.1	909.0	907.0
127.5°	972.9	970.9	968.8	966.8
130°	1028.2	1026.2	1024.1	1022.1
132.5°	1081.1	1079.1	1077.0	1075.0
135°	1133.7	1132.2	1130.6	1129.1
137.5°	1181.3	1179.2	1177.2	1175.1
140°	1225.8	1224.3	1222.7	1221.2
142.5°	1268.4	1266.9	1265.3	1263.8
145°	1308.3	1306.5	1304.7	1302.9
147.5°	1344.7	1343.4	1342.2	1340.9
150°	1377.7	1377.0	1376.2	1375.4
152.5°	1407.2	1407.0	1406.7	1406.5
155°	1433.8	1434.3	1434.8	1435.3
157.5°	1458.3	1458.3	1458.3	1458.3
160°	1478.3	1478.5	1478.8	1479.0
162.5°	1496.3	1497.0	1497.8	1498.6
165°	1511.2	1512.0	1512.7	1513.5
167.5°	1523.1	1524.2	1525.2	1526.2
170°	1533.5	1534.5	1535.6	1536.6
172.5°	1539.6	1540.9	1542.2	1543.5
175°	1545.4	1546.7	1547.9	1549.2
177.5°	1547.7	1549.0	1550.2	1551.5
180°	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)