

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: P1011540

Luminaire Tested: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011540
REPORT IS A COMBINATION OF REPORTS P989732 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB50-4F0-XX-W2A-A4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

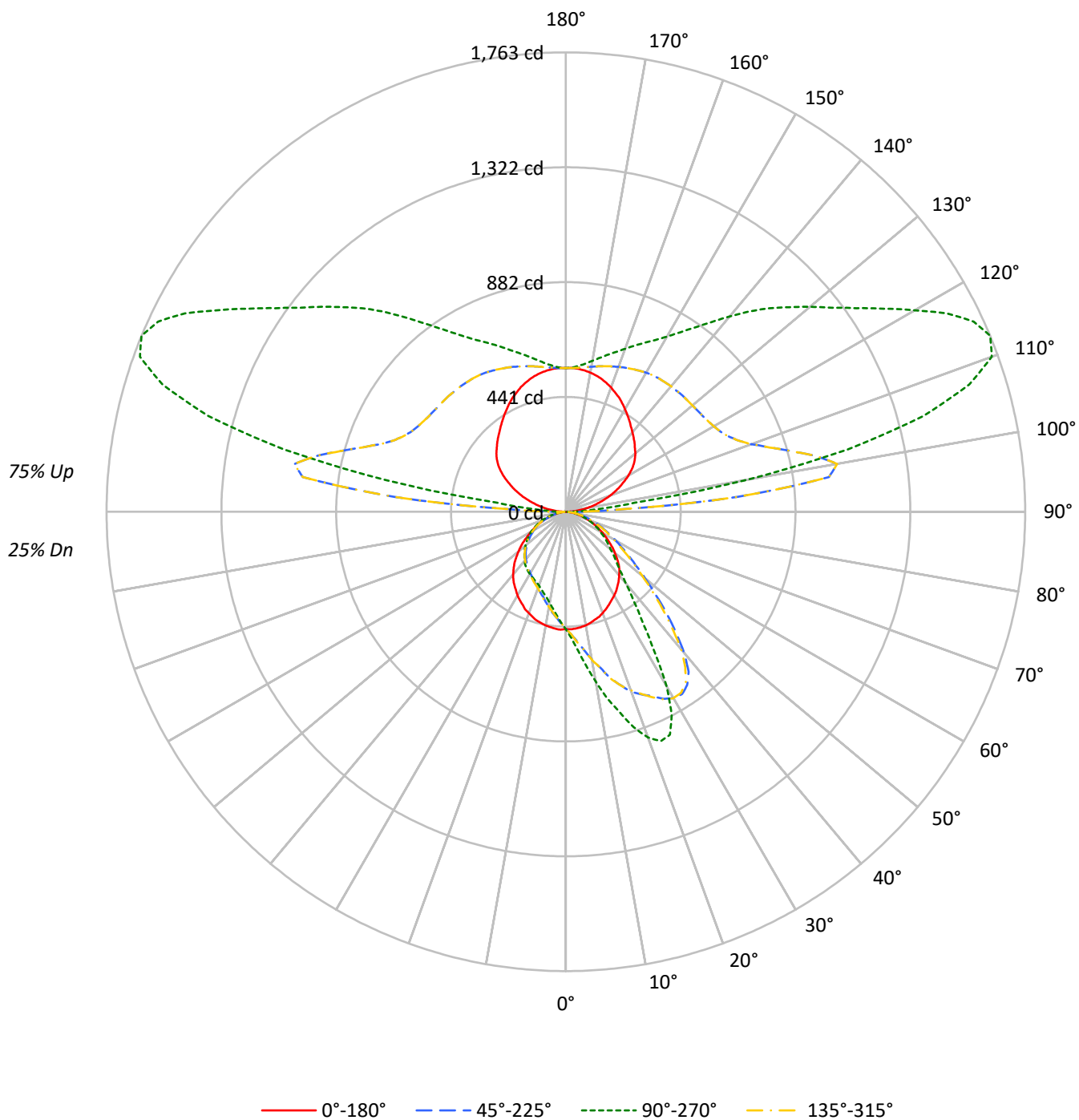
Lumens per Lamp: N/A
Luminaire Lumens: 5510.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
Input Current (A_{in}): 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	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	79	76	73	61	59	57	44	43	42	29	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	20
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13
7	54	43	35	30	48	38	32	27	30	26	22	23	19	17	15	13	12
8	50	39	31	26	45	35	28	24	27	23	19	21	17	15	14	12	11
9	47	35	28	23	42	32	25	21	25	21	17	19	16	13	13	11	10
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4843	4843	4843	4843
5°	4846	5580	4860	4164
10°	4815	6753	4821	3637
15°	4749	8009	4788	3273
20°	4692	9220	4702	3013
25°	4607	9453	4617	2876
30°	4546	7809	4546	2787
35°	4471	5223	4443	2708
40°	4381	3770	4326	2587
45°	4267	2987	4143	2437
50°	3992	2537	3849	2290
55°	3689	2229	3539	2125
60°	3382	1941	3202	1952
65°	3046	1662	2898	1722
70°	2698	1379	2518	1451
75°	2305	1039	2157	1119
80°	1824	694	1683	736
85°	1258	319	1009	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 7810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	0.8
10°-20°	142.1	2.6
20°-30°	239.1	4.3
30°-40°	270.3	4.9
40°-50°	242.1	4.4
50°-60°	195.4	3.5
60°-70°	136.2	2.5
70°-80°	71.5	1.3
80°-90°	20.2	0.4
90°-100°	299.3	5.4
100°-110°	876.3	15.9
110°-120°	855.7	15.5
120°-130°	681.5	12.4
130°-140°	537.7	9.8
140°-150°	401.1	7.3
150°-160°	279.7	5.1
160°-170°	164.3	3.0
170°-180°	53.4	1.0
0°-30°	425.5	7.7
0°-40°	695.8	12.6
0°-60°	1133.2	20.6
0°-90°	1361.0	24.7
90°-120°	2031.3	36.9
90°-150°	3651.5	66.3
90°-180°	4149.0	75.3
0°-180°	5510.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	450	450	450	450	450	
5°	450	534	451	399	450	43
15°	429	796	432	325	429	121
25°	392	944	393	287	392	181
35°	346	509	344	264	346	217
45°	287	275	279	224	287	220
55°	204	187	195	178	204	182
65°	126	121	120	126	126	125
75°	61	62	57	67	61	65
85°	13	14	10	13	13	15
90°	2	32	2	32	2	4
95°	38	130	38	130	38	40
105°	130	1420	130	1420	130	138
115°	229	1727	229	1727	229	227
125°	318	1362	318	1362	318	283
135°	373	1104	373	1104	373	288
145°	425	863	425	863	425	267
155°	484	716	484	716	484	222
165°	528	624	528	624	528	149
175°	550	562	550	562	550	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	451.3	454.7	456.5	459.1	461.7	465.6	466.9	469.1	468.3	470.0	470.9
5°	449.5	455.6	460.8	467.4	473.5	477.8	482.2	489.2	494.4	495.3	499.2
7.5°	446.5	455.2	464.3	473.5	485.3	492.2	500.1	509.7	517.5	530.2	535.0
10°	442.5	454.7	467.8	480.5	496.6	507.5	517.1	533.2	549.3	562.4	574.6
12.5°	436.4	451.7	468.7	487.4	508.4	521.0	534.1	555.5	579.9	599.9	613.0
15°	429.0	448.2	470.0	490.1	513.2	536.7	550.7	574.6	609.5	628.3	661.8
17.5°	422.9	442.5	464.3	495.7	527.1	550.7	560.7	604.7	628.7	660.1	698.0
20°	413.3	438.2	466.1	497.5	538.0	552.4	572.9	617.4	647.0	688.0	734.6
22.5°	403.3	429.9	463.5	496.2	541.5	556.8	584.7	620.0	667.1	707.6	759.1
25°	392.4	421.2	455.2	494.0	538.4	560.7	586.8	630.4	681.5	732.5	780.0
27.5°	381.5	412.9	448.2	487.0	530.2	556.3	582.5	627.8	693.2	748.6	809.2
30°	371.0	402.4	437.7	477.4	522.8	548.0	572.9	629.6	702.4	764.7	825.8
32.5°	359.7	392.0	429.0	462.2	507.9	535.0	562.9	629.6	708.0	774.3	830.1
35°	346.2	379.3	411.1	444.3	489.6	519.7	551.1	625.2	713.3	777.4	811.8
37.5°	333.1	362.3	389.8	422.0	469.6	501.8	538.0	620.0	710.7	764.3	773.9
40°	318.3	347.5	369.7	399.8	449.9	487.4	524.1	613.0	699.3	733.3	705.4
42.5°	303.9	327.0	346.2	375.4	429.9	466.5	506.2	600.4	677.1	684.1	621.3
45°	287.3	303.9	320.9	354.0	408.1	445.6	489.6	582.0	641.3	621.3	541.9
47.5°	266.0	280.8	299.5	330.0	385.0	423.8	465.6	558.5	589.5	547.6	460.8
50°	245.5	258.1	275.5	305.2	360.6	398.5	443.0	521.4	536.7	470.9	397.2
52.5°	225.0	234.6	251.6	281.2	336.6	373.2	413.8	483.5	474.8	404.2	338.8
55°	203.6	211.9	228.0	257.2	308.7	343.6	382.4	436.9	414.2	347.0	294.7
57.5°	182.7	191.4	208.0	232.4	280.8	314.8	345.7	388.5	354.5	300.8	254.6
60°	163.9	171.3	184.0	208.0	252.0	279.5	307.8	337.0	308.7	256.8	221.5
62.5°	144.3	151.3	163.1	184.9	222.8	247.2	269.9	293.9	262.5	224.5	193.1
65°	126.0	131.7	142.6	162.6	193.6	213.6	231.9	248.5	223.2	188.3	164.8
67.5°	109.4	114.2	123.4	141.3	167.4	181.8	196.6	210.6	189.2	161.3	141.3
70°	91.6	95.5	103.8	116.8	137.8	152.6	163.5	174.0	154.8	132.5	119.0
72.5°	75.9	79.8	85.0	98.5	112.9	122.1	133.8	139.5	128.6	110.3	96.8
75°	60.6	63.7	68.5	77.2	90.7	96.8	104.2	108.6	98.5	86.3	78.0
77.5°	47.5	48.8	52.3	58.4	67.6	74.6	80.2	82.8	75.9	68.0	61.0
80°	33.6	35.3	37.9	43.2	50.1	52.3	55.8	58.9	54.5	47.5	43.2
82.5°	22.2	24.4	25.7	27.9	32.3	34.9	35.8	38.4	34.4	31.8	30.1
85°	13.1	14.0	14.4	15.7	17.9	19.2	20.5	20.9	20.1	19.6	17.9
87.5°	6.5	6.5	6.5	7.4	7.8	8.7	9.2	9.2	9.2	8.7	8.3
90°	2.2	4.5	6.7	10.0	12.3	13.4	14.5	17.9	21.2	24.6	27.9
92.5°	16.7	24.6	35.7	45.8	56.9	67.0	77.0	112.8	171.9	230.0	207.7
95°	38.0	41.3	53.6	72.6	101.6	123.4	145.1	240.1	406.4	589.5	662.1
97.5°	60.3	61.4	71.5	88.2	117.2	141.2	165.2	259.0	452.2	760.4	1018.3
100°	82.6	83.7	91.6	107.2	134.0	155.8	177.5	255.7	420.9	714.6	1057.4
102.5°	106.1	108.3	115.0	129.5	153.0	172.5	192.0	260.2	394.1	647.6	984.8
105°	129.5	132.9	139.6	153.0	174.2	191.5	208.8	269.1	384.1	595.1	897.7
107.5°	154.1	157.4	164.1	177.5	197.6	213.8	230.0	283.6	381.9	557.2	820.7
110°	180.9	184.2	189.8	202.1	221.1	236.7	252.3	302.6	387.4	537.1	757.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	205.4	208.8	214.4	226.7	245.6	260.7	275.8	321.6	398.6	525.9	714.6
115°	228.9	233.4	240.1	251.2	270.2	285.2	300.3	342.8	410.9	524.8	686.7
117.5°	252.3	257.9	263.5	273.6	294.8	308.8	322.7	365.1	426.5	525.9	667.7
120°	276.9	280.2	285.8	297.0	318.2	332.2	346.1	386.3	444.4	530.4	655.4
122.5°	298.1	301.5	307.0	319.3	339.4	354.5	369.6	408.7	461.1	538.2	647.6
125°	318.2	320.4	327.1	339.4	360.6	375.7	390.8	429.9	479.0	546.0	640.9
127.5°	333.8	337.2	345.0	357.3	380.7	395.8	410.9	448.8	493.5	554.9	637.5
130°	348.4	351.7	361.8	375.2	398.6	413.6	428.7	465.6	508.0	563.8	634.2
132.5°	359.5	364.0	375.2	391.9	415.4	429.9	444.4	480.1	521.4	570.5	633.1
135°	372.9	377.4	389.7	406.4	429.9	445.0	460.0	494.6	532.6	577.2	632.0
137.5°	385.2	389.7	402.0	419.8	443.3	457.2	471.2	504.7	541.5	581.7	629.7
140°	397.5	403.1	414.2	432.1	454.4	468.4	482.3	514.7	548.2	586.2	628.6
142.5°	410.9	415.4	427.6	443.3	465.6	478.4	491.3	522.5	554.9	589.5	626.4
145°	425.4	428.7	438.8	455.5	474.5	487.4	500.2	529.2	559.4	590.6	624.1
147.5°	439.9	442.1	452.2	466.7	485.7	496.8	508.0	534.8	562.7	590.6	620.8
150°	454.4	455.5	464.5	479.0	494.6	504.6	514.7	540.4	563.8	590.6	616.3
152.5°	468.9	468.9	477.9	490.2	503.6	513.0	522.5	543.8	566.1	587.3	610.7
155°	483.5	483.5	490.2	501.3	513.6	521.4	529.2	548.2	566.1	585.1	604.0
157.5°	494.6	495.7	501.3	511.4	522.5	528.6	534.8	550.5	567.2	581.7	598.5
160°	508.0	508.0	512.5	521.4	529.2	534.8	540.4	553.8	567.2	579.5	591.8
162.5°	518.1	518.1	521.4	528.1	534.8	539.3	543.8	554.9	566.1	575.0	585.1
165°	528.1	527.0	529.2	534.8	539.3	543.2	547.1	556.0	563.8	570.5	578.4
167.5°	535.9	534.8	535.9	540.4	543.8	546.6	549.3	556.0	562.7	566.1	571.7
170°	542.6	540.4	541.5	544.9	547.1	548.2	549.3	554.9	559.4	561.6	565.0
172.5°	547.1	546.0	546.0	548.2	549.3	549.9	550.5	554.9	558.3	558.3	559.4
175°	550.5	549.3	548.2	550.5	550.5	551.0	551.6	553.8	556.0	554.9	554.9
177.5°	552.7	551.6	550.5	551.6	551.6	551.6	551.6	552.7	554.9	552.7	551.6
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	473.9	474.8	477.8	480.0	484.4	484.0	484.0	483.5	482.2	484.4	485.7
5°	507.1	514.5	515.3	524.9	525.4	529.3	531.9	529.7	535.0	534.5	530.6
7.5°	548.0	558.1	562.9	572.0	582.5	579.9	589.9	591.6	590.8	595.1	598.2
10°	592.9	610.4	622.6	639.6	644.0	646.6	653.1	658.8	670.1	661.4	667.1
12.5°	644.4	657.0	673.2	700.2	713.7	722.4	725.5	729.4	737.3	732.5	732.9
15°	687.6	704.6	732.0	765.6	769.5	780.4	777.8	801.4	812.7	795.7	805.3
17.5°	732.5	755.1	787.8	817.0	833.6	841.0	848.0	870.7	869.8	867.2	869.4
20°	761.2	798.3	838.8	877.7	882.4	888.1	906.9	916.5	914.7	922.1	926.9
22.5°	801.8	841.0	884.2	909.9	920.8	927.4	942.2	948.3	950.9	952.6	949.6
25°	835.8	877.7	909.5	932.1	938.7	942.2	947.0	948.7	947.4	944.4	947.0
27.5°	858.9	892.5	914.3	924.7	921.2	915.6	906.4	900.3	886.8	880.3	888.1
30°	868.5	883.3	889.9	872.4	855.0	841.0	823.6	791.3	766.0	773.4	763.4
32.5°	853.2	843.6	812.3	767.3	753.8	731.2	681.9	644.0	645.3	625.2	633.5
35°	808.3	764.7	705.4	637.4	619.5	607.3	553.3	545.0	527.5	508.8	514.0
37.5°	729.0	665.3	593.4	543.2	516.6	490.1	459.5	441.2	430.8	422.9	429.0
40°	632.2	554.6	495.3	450.4	427.7	410.7	389.8	371.5	359.7	358.4	360.6
42.5°	537.1	471.7	417.2	374.5	367.1	347.0	333.5	319.1	315.7	310.0	313.0
45°	454.7	401.5	356.6	321.8	313.0	307.8	291.2	282.1	278.2	274.7	279.9
47.5°	395.0	339.2	306.5	285.6	276.9	268.1	259.0	252.9	249.8	250.3	249.8
50°	337.5	296.5	267.7	251.6	246.3	240.2	232.8	228.9	227.6	223.7	226.7
52.5°	290.4	260.7	240.7	225.4	221.5	217.1	211.0	208.8	205.8	204.9	204.9
55°	252.4	229.3	213.2	203.2	198.4	194.9	191.4	188.8	186.6	186.6	186.6
57.5°	222.8	202.7	191.0	182.2	180.5	177.0	173.1	173.1	170.0	169.6	170.9
60°	197.5	179.6	170.5	163.1	160.4	159.6	155.6	155.6	154.8	152.6	154.3
62.5°	171.8	158.7	150.9	145.2	142.6	142.6	139.5	137.3	137.3	137.8	136.9
65°	148.2	138.6	131.7	127.3	126.0	124.3	123.8	122.1	120.8	121.2	120.8
67.5°	127.3	119.9	115.1	111.6	109.4	108.6	107.3	107.3	106.4	106.8	104.6
70°	108.6	101.1	97.2	93.7	92.9	92.9	91.1	91.6	90.7	92.0	91.1
72.5°	89.4	83.7	80.7	79.4	78.5	78.0	77.2	76.3	75.9	76.7	76.3
75°	72.4	67.6	65.4	64.5	63.7	63.7	63.2	62.8	62.3	62.3	62.3
77.5°	56.2	53.2	50.6	51.4	50.1	50.6	49.3	49.3	49.7	49.3	49.3
80°	41.4	39.2	39.2	38.4	36.6	37.5	37.5	36.2	35.8	36.6	35.3
82.5°	27.5	27.0	26.2	25.7	24.9	25.3	24.9	24.4	24.0	24.9	24.0
85°	16.1	16.1	15.7	14.8	15.7	15.3	14.8	14.8	14.4	14.4	14.4
87.5°	8.3	7.4	7.4	7.0	7.4	6.5	7.0	6.5	6.1	6.5	6.1
90°	26.8	27.9	29.0	30.1	31.2	32.4	31.3	32.4	33.5	32.4	33.5
92.5°	155.2	110.5	86.0	74.8	70.9	67.0	64.8	60.3	61.4	59.2	61.4
95°	537.1	402.0	272.4	213.3	193.2	173.1	151.8	141.8	134.0	129.5	134.0
97.5°	1052.9	923.4	696.7	549.3	485.6	422.0	347.2	304.8	278.0	265.7	278.0
100°	1277.3	1316.4	1226.0	1095.3	1016.0	936.8	824.0	742.5	698.9	700.1	698.9
102.5°	1288.5	1447.0	1466.0	1403.5	1360.5	1317.5	1236.0	1175.7	1141.1	1108.7	1141.1
105°	1218.1	1451.5	1563.1	1584.4	1569.8	1555.3	1504.0	1461.5	1425.8	1420.2	1425.8
107.5°	1117.6	1384.5	1559.8	1646.9	1662.0	1677.0	1670.3	1650.2	1635.7	1623.4	1635.7
110°	1023.9	1279.5	1485.0	1625.7	1664.8	1703.8	1735.1	1744.0	1741.8	1739.6	1741.8

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	942.4	1175.7	1386.7	1548.6	1601.6	1654.7	1718.3	1750.7	1761.9	1763.0	1761.9
115°	879.8	1086.4	1280.7	1444.8	1505.6	1566.5	1650.2	1699.4	1721.7	1727.3	1721.7
117.5°	838.5	1017.2	1189.1	1339.8	1402.9	1466.0	1553.1	1607.8	1641.3	1649.1	1641.3
120°	807.3	964.7	1115.4	1249.4	1305.8	1362.2	1450.4	1512.9	1539.7	1546.4	1539.7
122.5°	781.6	923.4	1056.2	1177.9	1229.3	1280.7	1356.6	1411.3	1441.4	1450.4	1441.4
125°	760.4	887.6	1009.3	1116.5	1161.2	1205.9	1277.3	1326.4	1354.4	1362.2	1354.4
127.5°	740.3	855.3	965.8	1064.1	1105.4	1146.7	1211.4	1253.9	1279.5	1286.2	1279.5
130°	724.6	825.1	925.6	1016.0	1054.0	1092.0	1151.1	1191.3	1214.8	1223.7	1214.8
132.5°	710.1	797.2	887.6	970.3	1006.0	1041.7	1096.4	1136.6	1156.7	1162.3	1156.7
135°	697.8	772.6	851.9	924.5	956.3	988.1	1042.8	1076.3	1096.4	1104.3	1096.4
137.5°	686.7	749.2	816.2	880.9	909.4	937.9	984.8	1019.4	1036.1	1042.8	1036.1
140°	676.6	729.1	786.0	839.6	863.6	887.6	930.1	961.3	979.2	978.1	979.2
142.5°	667.7	710.1	757.0	801.7	821.8	841.9	876.5	903.3	918.9	917.8	918.9
145°	659.9	695.6	732.4	768.2	784.4	800.6	828.5	851.9	860.8	863.1	860.8
147.5°	652.1	683.3	713.5	743.6	755.4	767.1	789.4	806.1	815.1	816.2	815.1
150°	644.2	669.9	695.6	719.0	729.6	740.3	757.0	769.3	776.0	776.0	776.0
152.5°	635.3	657.6	678.9	698.9	707.3	715.7	728.0	739.1	742.5	742.5	742.5
155°	626.4	645.4	663.2	680.0	686.7	693.4	703.4	712.3	714.6	715.7	714.6
157.5°	616.3	632.0	647.6	661.0	666.6	672.2	681.1	687.8	690.0	690.0	690.0
160°	606.3	620.8	633.1	644.2	648.2	652.1	659.9	666.6	666.6	665.5	666.6
162.5°	596.2	607.4	617.4	627.5	630.8	634.2	638.7	644.2	644.2	643.1	644.2
165°	587.3	596.2	602.9	610.7	613.5	616.3	620.8	625.3	624.1	624.1	624.1
167.5°	578.4	586.2	591.8	596.2	598.4	600.7	602.9	606.3	605.2	605.2	605.2
170°	570.5	576.1	579.5	583.9	585.0	586.2	587.3	589.5	588.4	588.4	588.4
172.5°	562.7	567.2	569.4	572.8	573.3	573.9	573.9	576.1	573.9	572.8	573.9
175°	557.2	559.4	560.5	562.7	562.7	562.7	562.7	563.8	562.7	561.6	562.7
177.5°	552.7	553.8	554.9	556.0	556.0	556.0	554.9	556.0	553.8	553.8	553.8
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	482.2	483.5	480.0	479.2	479.2	480.9	479.6	467.8	470.0	467.4	466.5
5°	535.4	532.8	529.3	527.5	525.4	519.3	518.8	505.3	502.7	494.0	490.1
7.5°	593.8	591.6	581.2	579.9	579.0	573.3	558.9	544.6	534.1	524.1	514.5
10°	660.5	654.0	649.2	639.6	634.8	627.0	608.2	594.7	576.8	561.6	541.5
12.5°	740.7	733.3	717.2	710.2	704.1	682.3	663.6	648.3	613.4	603.0	578.1
15°	799.6	783.9	782.2	766.9	766.0	742.1	706.3	689.7	662.7	624.3	598.6
17.5°	863.3	849.3	838.4	820.1	817.5	794.8	768.7	728.1	698.5	661.8	629.1
20°	909.9	902.5	883.8	876.3	861.1	841.9	814.9	764.7	728.5	691.9	651.8
22.5°	947.0	939.6	924.7	914.7	906.0	881.1	848.9	806.1	756.4	708.5	667.1
25°	946.5	944.4	938.3	933.5	926.9	908.6	881.6	840.6	785.2	732.5	674.9
27.5°	892.9	899.0	909.5	914.7	913.4	910.8	895.5	861.1	811.4	748.6	684.1
30°	781.3	803.5	823.2	849.3	857.2	876.3	885.1	865.4	825.8	767.3	695.8
32.5°	647.9	680.1	722.9	737.3	762.1	799.2	840.6	848.0	823.2	778.2	703.3
35°	531.5	558.1	591.2	613.9	636.1	696.3	748.6	793.9	802.2	772.6	701.5
37.5°	439.9	458.7	487.9	507.1	527.5	579.0	652.2	711.1	752.5	753.4	696.7
40°	373.6	381.9	407.2	421.2	440.8	485.3	550.7	627.4	688.0	715.9	684.1
42.5°	316.5	327.4	348.4	358.8	371.5	410.3	453.4	526.2	601.2	661.0	660.5
45°	282.5	290.4	300.0	308.7	323.1	346.2	395.4	449.9	521.9	589.5	616.1
47.5°	252.4	259.9	269.4	272.1	281.7	303.4	333.5	381.1	448.2	515.3	565.5
50°	227.2	233.3	239.8	244.6	249.0	266.8	289.5	329.6	383.2	448.2	510.5
52.5°	207.5	211.9	217.6	220.2	224.1	237.2	254.6	284.3	328.3	387.6	448.2
55°	189.2	192.3	195.8	200.1	201.9	211.5	225.0	250.3	283.0	336.1	393.7
57.5°	172.2	173.5	175.7	178.3	180.5	188.8	200.6	217.6	246.3	287.3	341.8
60°	153.0	156.5	157.8	160.4	161.8	168.3	177.4	191.8	214.1	249.4	290.4
62.5°	136.9	139.1	141.3	142.6	145.6	147.8	155.2	168.3	186.6	212.8	249.8
65°	122.5	123.4	124.7	126.0	126.9	129.5	136.5	145.2	159.1	182.2	211.0
67.5°	105.9	106.8	108.6	109.0	109.9	113.4	117.3	124.7	136.5	153.9	177.4
70°	89.8	91.1	92.0	92.9	94.2	95.5	99.8	105.9	115.1	127.3	145.6
72.5°	75.9	77.2	77.2	78.0	77.6	79.4	83.7	88.1	94.2	104.2	120.3
75°	61.9	61.9	62.8	63.2	63.7	65.4	67.1	70.6	75.4	83.3	93.3
77.5°	48.8	48.4	49.3	49.3	49.3	50.6	52.3	54.1	57.1	62.8	70.6
80°	35.8	35.8	36.6	37.1	36.2	36.6	37.5	39.2	41.4	45.3	49.7
82.5°	23.5	25.3	24.9	25.3	24.9	25.7	26.2	26.6	27.5	29.2	32.3
85°	14.4	14.4	14.4	14.8	14.4	14.8	14.8	14.8	15.3	16.1	17.4
87.5°	6.1	6.1	6.1	6.5	6.1	6.1	6.5	6.1	6.5	6.5	7.0
90°	32.4	31.3	32.4	31.2	30.1	29.0	27.9	26.8	27.9	24.6	21.2
92.5°	60.3	64.8	67.0	70.9	74.8	86.0	110.5	155.2	207.7	230.0	171.9
95°	141.8	151.8	173.1	193.2	213.3	272.4	402.0	537.1	662.1	589.5	406.4
97.5°	304.8	347.2	422.0	485.6	549.3	696.7	923.4	1052.9	1018.3	760.4	452.2
100°	742.5	824.0	936.8	1016.0	1095.3	1226.0	1316.4	1277.3	1057.4	714.6	420.9
102.5°	1175.7	1236.0	1317.5	1360.5	1403.5	1466.0	1447.0	1288.5	984.8	647.6	394.1
105°	1461.5	1504.0	1555.3	1569.8	1584.4	1563.1	1451.5	1218.1	897.7	595.1	384.1
107.5°	1650.2	1670.3	1677.0	1662.0	1646.9	1559.8	1384.5	1117.6	820.7	557.2	381.9
110°	1744.0	1735.1	1703.8	1664.8	1625.7	1485.0	1279.5	1023.9	757.0	537.1	387.4

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1750.7	1718.3	1654.7	1601.6	1548.6	1386.7	1175.7	942.4	714.6	525.9	398.6
115°	1699.4	1650.2	1566.5	1505.6	1444.8	1280.7	1086.4	879.8	686.7	524.8	410.9
117.5°	1607.8	1553.1	1466.0	1402.9	1339.8	1189.1	1017.2	838.5	667.7	525.9	426.5
120°	1512.9	1450.4	1362.2	1305.8	1249.4	1115.4	964.7	807.3	655.4	530.4	444.4
122.5°	1411.3	1356.6	1280.7	1229.3	1177.9	1056.2	923.4	781.6	647.6	538.2	461.1
125°	1326.4	1277.3	1205.9	1161.2	1116.5	1009.3	887.6	760.4	640.9	546.0	479.0
127.5°	1253.9	1211.4	1146.7	1105.4	1064.1	965.8	855.3	740.3	637.5	554.9	493.5
130°	1191.3	1151.1	1092.0	1054.0	1016.0	925.6	825.1	724.6	634.2	563.8	508.0
132.5°	1136.6	1096.4	1041.7	1006.0	970.3	887.6	797.2	710.1	633.1	570.5	521.4
135°	1076.3	1042.8	988.1	956.3	924.5	851.9	772.6	697.8	632.0	577.2	532.6
137.5°	1019.4	984.8	937.9	909.4	880.9	816.2	749.2	686.7	629.7	581.7	541.5
140°	961.3	930.1	887.6	863.6	839.6	786.0	729.1	676.6	628.6	586.2	548.2
142.5°	903.3	876.5	841.9	821.8	801.7	757.0	710.1	667.7	626.4	589.5	554.9
145°	851.9	828.5	800.6	784.4	768.2	732.4	695.6	659.9	624.1	590.6	559.4
147.5°	806.1	789.4	767.1	755.4	743.6	713.5	683.3	652.1	620.8	590.6	562.7
150°	769.3	757.0	740.3	729.6	719.0	695.6	669.9	644.2	616.3	590.6	563.8
152.5°	739.1	728.0	715.7	707.3	698.9	678.9	657.6	635.3	610.7	587.3	566.1
155°	712.3	703.4	693.4	686.7	680.0	663.2	645.4	626.4	604.0	585.1	566.1
157.5°	687.8	681.1	672.2	666.6	661.0	647.6	632.0	616.3	598.5	581.7	567.2
160°	666.6	659.9	652.1	648.2	644.2	633.1	620.8	606.3	591.8	579.5	567.2
162.5°	644.2	638.7	634.2	630.8	627.5	617.4	607.4	596.2	585.1	575.0	566.1
165°	625.3	620.8	616.3	613.5	610.7	602.9	596.2	587.3	578.4	570.5	563.8
167.5°	606.3	602.9	600.7	598.4	596.2	591.8	586.2	578.4	571.7	566.1	562.7
170°	589.5	587.3	586.2	585.0	583.9	579.5	576.1	570.5	565.0	561.6	559.4
172.5°	576.1	573.9	573.9	573.3	572.8	569.4	567.2	562.7	559.4	558.3	558.3
175°	563.8	562.7	562.7	562.7	562.7	560.5	559.4	557.2	554.9	554.9	556.0
177.5°	556.0	554.9	556.0	556.0	556.0	554.9	553.8	552.7	551.6	552.7	554.9
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	462.2	460.8	460.8	460.0	457.4	452.6	452.1	453.0	450.4	447.8	443.8
5°	484.8	476.5	473.9	471.3	466.1	457.4	453.9	450.8	446.0	440.4	434.2
7.5°	504.0	492.2	488.7	484.0	473.5	461.3	453.4	446.9	440.4	432.5	425.1
10°	528.0	511.0	502.7	495.7	481.3	464.3	452.6	443.0	432.5	422.9	413.3
12.5°	555.0	527.5	524.9	507.9	491.4	466.1	451.7	437.7	423.8	412.0	402.0
15°	577.7	547.6	536.7	525.4	493.5	462.2	448.2	432.5	416.4	403.7	388.9
17.5°	592.1	567.2	544.1	528.9	495.7	467.8	440.8	422.9	405.9	388.5	376.3
20°	609.5	573.3	553.3	532.8	500.1	463.5	436.4	414.2	393.3	377.6	362.7
22.5°	627.0	578.1	561.6	539.3	501.0	459.1	428.6	406.3	382.4	366.7	350.5
25°	625.2	585.1	557.6	538.9	492.2	455.2	419.4	393.3	371.0	351.0	334.8
27.5°	626.5	577.3	549.3	527.5	486.1	449.5	409.8	382.4	359.3	338.3	321.3
30°	627.0	565.5	541.1	514.9	474.8	436.0	398.9	371.0	346.6	323.9	308.7
32.5°	625.6	555.9	525.4	501.8	456.9	422.9	386.3	356.6	331.8	310.9	296.5
35°	622.6	544.6	509.2	479.6	438.6	404.2	374.5	344.0	317.4	298.2	281.7
37.5°	614.3	532.3	492.2	463.0	417.2	382.4	356.2	330.9	305.2	282.5	268.6
40°	608.2	515.8	475.2	443.4	394.1	360.1	338.3	314.3	289.1	268.6	255.1
42.5°	594.3	500.1	457.8	419.9	371.5	336.6	316.1	296.9	275.1	255.1	242.8
45°	571.6	483.1	436.4	398.1	346.6	313.5	294.7	279.0	259.9	240.7	228.5
47.5°	539.8	458.7	413.8	375.4	322.2	288.6	269.9	258.1	242.8	226.7	216.3
50°	505.3	432.1	390.6	352.7	298.7	266.0	247.6	236.7	226.7	211.9	201.9
52.5°	460.4	403.7	364.1	327.9	273.4	242.0	225.8	218.0	207.5	197.1	188.3
55°	416.8	367.1	334.4	300.0	248.5	219.3	203.6	195.3	189.2	180.5	173.5
57.5°	366.2	333.1	303.0	271.6	225.4	198.8	184.0	174.0	170.0	166.1	159.6
60°	319.6	294.3	269.9	243.7	201.4	177.4	163.1	155.2	151.3	148.7	144.3
62.5°	276.9	257.2	236.3	215.4	177.0	155.2	144.3	136.5	133.0	132.5	128.6
65°	235.9	221.9	204.9	184.4	154.3	135.2	124.7	119.9	116.0	116.0	112.9
67.5°	194.9	185.3	171.8	157.4	133.8	116.0	106.4	102.0	99.8	99.8	97.7
70°	162.2	155.6	143.4	130.8	110.3	96.8	89.4	85.5	84.1	84.6	82.8
72.5°	131.7	124.7	114.7	105.5	90.3	80.2	75.0	70.6	68.5	68.9	68.5
75°	102.0	98.5	89.8	82.8	70.6	63.7	58.9	56.7	54.9	55.4	54.5
77.5°	76.7	71.5	66.7	61.9	54.5	48.8	44.9	42.7	41.4	41.4	41.4
80°	52.3	51.4	47.5	44.9	38.8	34.4	31.4	31.0	29.6	29.6	29.6
82.5°	34.0	31.8	29.6	27.9	24.4	21.8	20.5	19.6	19.2	18.7	19.6
85°	18.7	17.4	16.6	14.8	13.5	12.2	10.9	10.5	10.0	10.5	10.0
87.5°	7.4	6.1	6.1	5.7	5.2	4.8	4.8	3.9	3.9	3.5	3.5
90°	17.9	14.5	13.4	12.3	10.0	6.7	4.5	2.2	4.5	6.7	10.0
92.5°	112.8	77.0	67.0	56.9	45.8	35.7	24.6	16.7	24.6	35.7	45.8
95°	240.1	145.1	123.4	101.6	72.6	53.6	41.3	38.0	41.3	53.6	72.6
97.5°	259.0	165.2	141.2	117.2	88.2	71.5	61.4	60.3	61.4	71.5	88.2
100°	255.7	177.5	155.8	134.0	107.2	91.6	83.7	82.6	83.7	91.6	107.2
102.5°	260.2	192.0	172.5	153.0	129.5	115.0	108.3	106.1	108.3	115.0	129.5
105°	269.1	208.8	191.5	174.2	153.0	139.6	132.9	129.5	132.9	139.6	153.0
107.5°	283.6	230.0	213.8	197.6	177.5	164.1	157.4	154.1	157.4	164.1	177.5
110°	302.6	252.3	236.7	221.1	202.1	189.8	184.2	180.9	184.2	189.8	202.1

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	321.6	275.8	260.7	245.6	226.7	214.4	208.8	205.4	208.8	214.4	226.7
115°	342.8	300.3	285.2	270.2	251.2	240.1	233.4	228.9	233.4	240.1	251.2
117.5°	365.1	322.7	308.8	294.8	273.6	263.5	257.9	252.3	257.9	263.5	273.6
120°	386.3	346.1	332.2	318.2	297.0	285.8	280.2	276.9	280.2	285.8	297.0
122.5°	408.7	369.6	354.5	339.4	319.3	307.0	301.5	298.1	301.5	307.0	319.3
125°	429.9	390.8	375.7	360.6	339.4	327.1	320.4	318.2	320.4	327.1	339.4
127.5°	448.8	410.9	395.8	380.7	357.3	345.0	337.2	333.8	337.2	345.0	357.3
130°	465.6	428.7	413.6	398.6	375.2	361.8	351.7	348.4	351.7	361.8	375.2
132.5°	480.1	444.4	429.9	415.4	391.9	375.2	364.0	359.5	364.0	375.2	391.9
135°	494.6	460.0	445.0	429.9	406.4	389.7	377.4	372.9	377.4	389.7	406.4
137.5°	504.7	471.2	457.2	443.3	419.8	402.0	389.7	385.2	389.7	402.0	419.8
140°	514.7	482.3	468.4	454.4	432.1	414.2	403.1	397.5	403.1	414.2	432.1
142.5°	522.5	491.3	478.4	465.6	443.3	427.6	415.4	410.9	415.4	427.6	443.3
145°	529.2	500.2	487.4	474.5	455.5	438.8	428.7	425.4	428.7	438.8	455.5
147.5°	534.8	508.0	496.8	485.7	466.7	452.2	442.1	439.9	442.1	452.2	466.7
150°	540.4	514.7	504.6	494.6	479.0	464.5	455.5	454.4	455.5	464.5	479.0
152.5°	543.8	522.5	513.0	503.6	490.2	477.9	468.9	468.9	468.9	477.9	490.2
155°	548.2	529.2	521.4	513.6	501.3	490.2	483.5	483.5	483.5	490.2	501.3
157.5°	550.5	534.8	528.6	522.5	511.4	501.3	495.7	494.6	495.7	501.3	511.4
160°	553.8	540.4	534.8	529.2	521.4	512.5	508.0	508.0	508.0	512.5	521.4
162.5°	554.9	543.8	539.3	534.8	528.1	521.4	518.1	518.1	518.1	521.4	528.1
165°	556.0	547.1	543.2	539.3	534.8	529.2	527.0	528.1	527.0	529.2	534.8
167.5°	556.0	549.3	546.6	543.8	540.4	535.9	534.8	535.9	534.8	535.9	540.4
170°	554.9	549.3	548.2	547.1	544.9	541.5	540.4	542.6	540.4	541.5	544.9
172.5°	554.9	550.5	549.9	549.3	548.2	546.0	546.0	547.1	546.0	546.0	548.2
175°	553.8	551.6	551.0	550.5	550.5	548.2	549.3	550.5	549.3	548.2	550.5
177.5°	552.7	551.6	551.6	551.6	551.6	550.5	551.6	552.7	551.6	550.5	551.6
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	443.0	442.5	443.4	440.8	436.4	434.2	428.1	426.8	426.4	426.8	427.3
5°	430.8	430.3	429.0	424.7	419.4	415.5	408.1	407.7	405.0	402.4	403.7
7.5°	419.0	417.2	414.6	409.0	402.0	397.6	391.5	387.2	383.7	381.5	379.7
10°	407.2	404.6	402.0	394.6	385.9	379.3	371.9	368.4	364.5	362.7	361.0
12.5°	392.0	389.3	384.5	375.8	370.6	362.3	354.9	351.4	349.2	345.7	343.6
15°	379.7	374.5	371.9	362.7	351.8	351.0	337.5	336.6	332.2	332.2	328.7
17.5°	365.8	361.9	357.1	347.9	340.1	332.2	325.2	322.6	318.7	317.8	316.1
20°	352.3	347.0	345.3	336.1	327.9	318.3	310.9	308.2	306.5	304.8	306.1
22.5°	338.3	334.0	329.6	321.3	315.2	305.6	301.3	298.7	296.0	295.2	295.6
25°	324.8	320.9	316.5	308.2	301.7	293.9	289.9	288.6	287.3	287.3	286.9
27.5°	311.7	307.8	303.9	296.5	289.9	284.3	281.2	279.9	278.6	279.5	280.3
30°	298.2	294.7	291.2	284.7	279.5	274.2	272.5	271.6	271.2	273.4	273.4
32.5°	286.0	283.0	280.3	274.2	269.0	264.6	263.3	263.8	264.2	265.5	266.4
35°	273.4	271.2	268.6	263.3	259.0	255.1	255.5	255.5	256.4	258.5	260.3
37.5°	262.0	259.0	256.8	252.4	249.0	245.5	246.8	248.1	249.0	251.6	252.4
40°	248.5	247.2	245.5	241.1	238.1	237.6	238.1	238.9	240.7	242.0	243.3
42.5°	237.6	235.9	233.7	230.2	227.6	228.0	228.5	229.3	230.2	232.4	233.7
45°	225.4	224.1	222.4	219.3	217.1	217.6	218.0	218.0	218.9	221.5	222.4
47.5°	211.9	212.3	210.1	207.1	205.8	205.8	205.8	206.7	208.8	209.7	210.1
50°	198.8	197.9	197.5	194.5	193.6	193.1	193.6	194.0	197.1	196.6	197.9
52.5°	184.9	184.9	184.4	182.7	181.4	181.4	180.5	182.7	183.6	184.4	185.7
55°	171.3	170.0	169.6	168.7	167.0	166.5	167.4	170.0	170.9	171.8	173.1
57.5°	156.5	156.5	155.6	154.3	154.3	154.3	154.3	156.1	157.4	158.3	160.9
60°	143.0	141.3	140.0	140.0	140.0	139.5	142.1	142.1	144.7	145.2	146.1
62.5°	126.9	126.0	125.1	125.6	125.1	126.0	126.9	128.6	129.1	130.4	131.7
65°	111.6	111.6	110.7	113.4	111.6	111.6	113.8	113.8	114.7	116.0	117.7
67.5°	96.8	97.2	96.4	96.4	97.2	97.7	98.1	99.8	100.3	102.0	104.2
70°	81.5	82.4	82.8	82.0	82.8	83.7	84.6	85.0	86.8	87.6	88.9
72.5°	68.0	68.9	67.6	68.0	68.5	69.3	69.8	70.6	71.5	74.1	75.0
75°	54.5	54.1	53.6	55.4	54.5	56.2	56.7	56.7	57.6	59.7	60.6
77.5°	41.9	41.9	42.3	41.4	42.7	42.3	42.7	44.0	45.3	45.3	48.8
80°	29.2	30.1	30.1	30.1	30.5	31.0	30.1	32.3	32.7	32.7	34.0
82.5°	18.7	19.2	18.7	19.6	19.6	20.5	20.1	20.5	21.4	22.2	22.7
85°	10.0	10.0	10.9	10.9	10.5	10.9	10.5	10.9	11.8	11.8	12.2
87.5°	3.5	3.5	3.5	3.5	3.9	3.5	3.9	3.9	3.5	3.5	4.8
90°	12.3	13.4	14.5	17.9	21.2	24.6	27.9	26.8	27.9	29.0	30.1
92.5°	56.9	67.0	77.0	112.8	171.9	230.0	207.7	155.2	110.5	86.0	74.8
95°	101.6	123.4	145.1	240.1	406.4	589.5	662.1	537.1	402.0	272.4	213.3
97.5°	117.2	141.2	165.2	259.0	452.2	760.4	1018.3	1052.9	923.4	696.7	549.3
100°	134.0	155.8	177.5	255.7	420.9	714.6	1057.4	1277.3	1316.4	1226.0	1095.3
102.5°	153.0	172.5	192.0	260.2	394.1	647.6	984.8	1288.5	1447.0	1466.0	1403.5
105°	174.2	191.5	208.8	269.1	384.1	595.1	897.7	1218.1	1451.5	1563.1	1584.4
107.5°	197.6	213.8	230.0	283.6	381.9	557.2	820.7	1117.6	1384.5	1559.8	1646.9
110°	221.1	236.7	252.3	302.6	387.4	537.1	757.0	1023.9	1279.5	1485.0	1625.7

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	245.6	260.7	275.8	321.6	398.6	525.9	714.6	942.4	1175.7	1386.7	1548.6
115°	270.2	285.2	300.3	342.8	410.9	524.8	686.7	879.8	1086.4	1280.7	1444.8
117.5°	294.8	308.8	322.7	365.1	426.5	525.9	667.7	838.5	1017.2	1189.1	1339.8
120°	318.2	332.2	346.1	386.3	444.4	530.4	655.4	807.3	964.7	1115.4	1249.4
122.5°	339.4	354.5	369.6	408.7	461.1	538.2	647.6	781.6	923.4	1056.2	1177.9
125°	360.6	375.7	390.8	429.9	479.0	546.0	640.9	760.4	887.6	1009.3	1116.5
127.5°	380.7	395.8	410.9	448.8	493.5	554.9	637.5	740.3	855.3	965.8	1064.1
130°	398.6	413.6	428.7	465.6	508.0	563.8	634.2	724.6	825.1	925.6	1016.0
132.5°	415.4	429.9	444.4	480.1	521.4	570.5	633.1	710.1	797.2	887.6	970.3
135°	429.9	445.0	460.0	494.6	532.6	577.2	632.0	697.8	772.6	851.9	924.5
137.5°	443.3	457.2	471.2	504.7	541.5	581.7	629.7	686.7	749.2	816.2	880.9
140°	454.4	468.4	482.3	514.7	548.2	586.2	628.6	676.6	729.1	786.0	839.6
142.5°	465.6	478.4	491.3	522.5	554.9	589.5	626.4	667.7	710.1	757.0	801.7
145°	474.5	487.4	500.2	529.2	559.4	590.6	624.1	659.9	695.6	732.4	768.2
147.5°	485.7	496.8	508.0	534.8	562.7	590.6	620.8	652.1	683.3	713.5	743.6
150°	494.6	504.6	514.7	540.4	563.8	590.6	616.3	644.2	669.9	695.6	719.0
152.5°	503.6	513.0	522.5	543.8	566.1	587.3	610.7	635.3	657.6	678.9	698.9
155°	513.6	521.4	529.2	548.2	566.1	585.1	604.0	626.4	645.4	663.2	680.0
157.5°	522.5	528.6	534.8	550.5	567.2	581.7	598.5	616.3	632.0	647.6	661.0
160°	529.2	534.8	540.4	553.8	567.2	579.5	591.8	606.3	620.8	633.1	644.2
162.5°	534.8	539.3	543.8	554.9	566.1	575.0	585.1	596.2	607.4	617.4	627.5
165°	539.3	543.2	547.1	556.0	563.8	570.5	578.4	587.3	596.2	602.9	610.7
167.5°	543.8	546.6	549.3	556.0	562.7	566.1	571.7	578.4	586.2	591.8	596.2
170°	547.1	548.2	549.3	554.9	559.4	561.6	565.0	570.5	576.1	579.5	583.9
172.5°	549.3	549.9	550.5	554.9	558.3	558.3	559.4	562.7	567.2	569.4	572.8
175°	550.5	551.0	551.6	553.8	556.0	554.9	554.9	557.2	559.4	560.5	562.7
177.5°	551.6	551.6	551.6	552.7	554.9	552.7	551.6	552.7	553.8	554.9	556.0
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	426.8	427.3	425.5	424.2	427.7	425.5	425.5	426.0	425.1	426.4	426.0
5°	402.9	403.3	400.2	401.1	399.4	398.9	398.5	401.1	400.7	400.2	401.1
7.5°	379.3	379.3	378.0	377.1	377.1	375.8	377.6	377.1	378.0	378.0	379.3
10°	359.7	360.6	358.4	356.2	355.8	356.2	356.2	356.6	357.1	360.1	359.7
12.5°	343.6	342.3	341.8	340.5	338.3	337.5	336.6	341.4	340.1	340.1	340.1
15°	325.7	328.7	328.3	324.4	323.5	325.2	324.4	324.4	328.7	328.3	327.9
17.5°	316.1	315.2	314.3	312.2	312.6	312.2	312.6	312.6	315.2	315.2	315.2
20°	305.2	303.4	303.4	302.6	302.6	301.3	303.0	303.4	305.2	305.2	305.6
22.5°	295.6	294.3	294.3	293.9	294.7	293.0	294.7	295.2	295.2	296.5	296.5
25°	287.3	286.4	286.4	287.3	287.3	287.3	287.3	289.1	287.8	288.2	287.8
27.5°	279.9	280.3	280.8	281.2	280.8	281.2	281.7	282.5	283.0	282.5	281.7
30°	272.9	274.2	274.7	274.7	275.5	276.0	276.4	276.4	276.9	275.5	276.4
32.5°	267.7	267.7	268.6	269.0	269.9	270.3	270.3	271.2	270.8	269.4	269.9
35°	260.3	260.3	262.0	262.9	264.2	263.8	264.2	264.2	264.6	263.8	262.5
37.5°	252.9	253.7	253.7	255.5	255.9	256.4	255.9	256.8	256.4	255.5	255.1
40°	244.2	243.7	244.2	245.5	245.9	245.9	245.9	246.8	246.8	246.8	246.3
42.5°	233.3	234.6	234.1	235.4	235.0	235.0	235.9	236.7	237.2	235.9	236.3
45°	222.8	222.8	223.7	223.7	224.1	224.1	225.8	225.0	225.8	225.0	225.4
47.5°	211.5	211.9	211.9	212.3	213.2	214.1	213.2	213.6	213.6	214.1	213.2
50°	198.8	198.8	199.7	201.0	202.7	201.9	201.4	203.2	201.9	201.9	201.0
52.5°	185.7	187.0	187.5	188.8	190.1	190.5	191.0	190.1	190.5	189.2	189.7
55°	173.1	173.5	175.3	176.6	177.9	177.9	177.4	177.9	178.3	176.6	176.6
57.5°	160.4	161.8	163.5	163.5	165.2	165.2	164.8	164.8	165.2	163.9	163.5
60°	146.9	148.2	150.4	150.4	153.0	153.5	152.6	151.7	151.7	150.4	150.9
62.5°	132.5	133.8	135.2	137.3	139.1	138.2	140.0	138.2	138.6	136.0	136.0
65°	119.9	120.3	122.5	124.7	124.7	125.6	124.7	125.1	123.8	123.8	122.1
67.5°	105.1	105.1	107.3	109.4	111.6	111.6	111.6	110.3	110.3	109.0	109.0
70°	92.0	91.6	93.7	95.0	96.4	96.8	95.9	95.5	94.6	93.3	92.9
72.5°	75.9	76.7	78.9	79.8	82.0	81.5	83.7	81.1	81.1	78.9	78.5
75°	61.5	62.3	64.5	65.8	67.1	67.1	68.5	67.1	65.4	64.5	64.1
77.5°	48.8	48.4	50.1	52.3	52.8	52.3	53.2	52.8	51.0	51.0	50.1
80°	34.9	36.2	37.9	37.5	39.2	38.8	38.8	37.9	37.9	36.6	37.5
82.5°	23.1	24.4	24.9	24.4	24.9	25.7	26.2	25.7	25.7	24.9	25.3
85°	12.2	12.2	13.1	13.5	13.1	13.1	13.5	14.8	14.0	13.1	14.0
87.5°	3.9	3.5	3.5	3.9	3.5	3.5	3.9	3.9	4.4	4.4	4.4
90°	31.2	32.4	31.3	32.4	33.5	32.4	33.5	32.4	31.3	32.4	31.2
92.5°	70.9	67.0	64.8	60.3	61.4	59.2	61.4	60.3	64.8	67.0	70.9
95°	193.2	173.1	151.8	141.8	134.0	129.5	134.0	141.8	151.8	173.1	193.2
97.5°	485.6	422.0	347.2	304.8	278.0	265.7	278.0	304.8	347.2	422.0	485.6
100°	1016.0	936.8	824.0	742.5	698.9	700.1	698.9	742.5	824.0	936.8	1016.0
102.5°	1360.5	1317.5	1236.0	1175.7	1141.1	1108.7	1141.1	1175.7	1236.0	1317.5	1360.5
105°	1569.8	1555.3	1504.0	1461.5	1425.8	1420.2	1425.8	1461.5	1504.0	1555.3	1569.8
107.5°	1662.0	1677.0	1670.3	1650.2	1635.7	1623.4	1635.7	1650.2	1670.3	1677.0	1662.0
110°	1664.8	1703.8	1735.1	1744.0	1741.8	1739.6	1741.8	1744.0	1735.1	1703.8	1664.8

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1601.6	1654.7	1718.3	1750.7	1761.9	1763.0	1761.9	1750.7	1718.3	1654.7	1601.6
115°	1505.6	1566.5	1650.2	1699.4	1721.7	1727.3	1721.7	1699.4	1650.2	1566.5	1505.6
117.5°	1402.9	1466.0	1553.1	1607.8	1641.3	1649.1	1641.3	1607.8	1553.1	1466.0	1402.9
120°	1305.8	1362.2	1450.4	1512.9	1539.7	1546.4	1539.7	1512.9	1450.4	1362.2	1305.8
122.5°	1229.3	1280.7	1356.6	1411.3	1441.4	1450.4	1441.4	1411.3	1356.6	1280.7	1229.3
125°	1161.2	1205.9	1277.3	1326.4	1354.4	1362.2	1354.4	1326.4	1277.3	1205.9	1161.2
127.5°	1105.4	1146.7	1211.4	1253.9	1279.5	1286.2	1279.5	1253.9	1211.4	1146.7	1105.4
130°	1054.0	1092.0	1151.1	1191.3	1214.8	1223.7	1214.8	1191.3	1151.1	1092.0	1054.0
132.5°	1006.0	1041.7	1096.4	1136.6	1156.7	1162.3	1156.7	1136.6	1096.4	1041.7	1006.0
135°	956.3	988.1	1042.8	1076.3	1096.4	1104.3	1096.4	1076.3	1042.8	988.1	956.3
137.5°	909.4	937.9	984.8	1019.4	1036.1	1042.8	1036.1	1019.4	984.8	937.9	909.4
140°	863.6	887.6	930.1	961.3	979.2	978.1	979.2	961.3	930.1	887.6	863.6
142.5°	821.8	841.9	876.5	903.3	918.9	917.8	918.9	903.3	876.5	841.9	821.8
145°	784.4	800.6	828.5	851.9	860.8	863.1	860.8	851.9	828.5	800.6	784.4
147.5°	755.4	767.1	789.4	806.1	815.1	816.2	815.1	806.1	789.4	767.1	755.4
150°	729.6	740.3	757.0	769.3	776.0	776.0	776.0	769.3	757.0	740.3	729.6
152.5°	707.3	715.7	728.0	739.1	742.5	742.5	742.5	739.1	728.0	715.7	707.3
155°	686.7	693.4	703.4	712.3	714.6	715.7	714.6	712.3	703.4	693.4	686.7
157.5°	666.6	672.2	681.1	687.8	690.0	690.0	690.0	687.8	681.1	672.2	666.6
160°	648.2	652.1	659.9	666.6	666.6	665.5	666.6	666.6	659.9	652.1	648.2
162.5°	630.8	634.2	638.7	644.2	644.2	643.1	644.2	644.2	638.7	634.2	630.8
165°	613.5	616.3	620.8	625.3	624.1	624.1	624.1	625.3	620.8	616.3	613.5
167.5°	598.4	600.7	602.9	606.3	605.2	605.2	605.2	606.3	602.9	600.7	598.4
170°	585.0	586.2	587.3	589.5	588.4	588.4	588.4	589.5	587.3	586.2	585.0
172.5°	573.3	573.9	573.9	576.1	573.9	572.8	573.9	576.1	573.9	573.9	573.3
175°	562.7	562.7	562.7	563.8	562.7	561.6	562.7	563.8	562.7	562.7	562.7
177.5°	556.0	556.0	554.9	556.0	553.8	553.8	553.8	556.0	554.9	556.0	556.0
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	427.3	428.1	428.6	426.8	425.5	427.7	430.8	432.9	434.7	436.9	438.2
5°	402.0	405.0	405.0	405.9	407.2	409.4	415.1	419.0	422.5	425.1	427.3
7.5°	380.6	382.8	384.1	386.3	388.5	391.5	398.1	403.7	409.0	412.0	415.5
10°	361.4	363.2	365.4	366.7	370.6	375.0	383.2	388.0	394.1	398.9	403.3
12.5°	343.1	349.2	350.5	350.1	353.6	358.4	366.7	374.1	380.6	385.4	390.2
15°	330.0	332.2	334.8	334.4	341.8	343.1	350.1	358.8	367.5	370.6	375.0
17.5°	315.7	319.1	321.8	323.1	325.2	330.0	336.6	343.1	354.5	354.9	366.2
20°	304.3	307.8	309.6	311.3	312.6	318.3	323.9	331.4	340.5	345.3	351.4
22.5°	296.9	298.7	300.0	301.3	303.0	306.1	313.0	321.3	327.4	332.7	336.6
25°	288.2	289.9	291.7	292.6	293.9	295.6	300.8	307.4	316.1	319.6	323.5
27.5°	282.1	282.1	283.0	283.0	284.7	286.4	290.4	296.5	303.4	307.8	313.0
30°	275.5	275.1	275.5	275.1	274.7	277.3	280.8	286.0	290.8	296.0	299.5
32.5°	269.0	268.6	268.6	269.0	267.3	268.6	270.3	275.1	280.3	283.0	286.9
35°	262.0	261.2	261.2	261.2	260.3	259.4	261.2	265.5	269.0	272.5	275.5
37.5°	255.1	253.7	253.7	252.9	252.0	250.7	250.7	254.2	259.0	260.3	264.2
40°	245.5	245.5	244.6	244.2	243.3	242.4	241.1	244.2	248.5	249.8	252.9
42.5°	235.9	234.6	234.1	234.1	234.1	232.8	231.9	234.1	236.7	238.9	240.7
45°	225.0	224.1	224.5	224.1	223.2	222.8	222.4	223.2	226.3	227.2	229.3
47.5°	213.2	212.8	212.8	212.3	211.9	212.3	210.6	212.8	213.6	214.5	216.3
50°	201.0	200.6	200.1	199.7	199.7	200.1	199.7	199.7	201.4	202.3	204.0
52.5°	188.8	187.5	187.5	187.0	187.0	186.2	187.0	187.5	188.3	189.2	190.1
55°	175.7	175.7	174.4	174.4	173.5	173.5	174.0	173.5	175.3	176.1	176.1
57.5°	163.1	161.3	161.8	160.9	160.0	159.6	159.6	160.4	161.3	161.3	162.2
60°	149.5	147.8	147.4	145.6	146.5	145.2	145.6	145.6	147.4	146.5	147.4
62.5°	136.0	133.8	132.5	131.7	131.7	132.1	131.2	130.8	131.7	132.5	134.3
65°	121.6	120.3	119.0	117.7	117.7	117.3	118.2	116.8	116.4	116.8	117.7
67.5°	106.8	105.5	104.2	102.9	103.3	102.0	101.1	102.5	101.6	102.0	102.9
70°	92.4	91.6	88.9	88.1	87.6	88.1	87.6	86.8	88.1	87.6	88.1
72.5°	78.0	77.2	75.9	73.7	73.7	73.2	72.8	72.8	72.4	72.4	72.4
75°	64.1	62.3	61.0	60.6	59.7	59.3	58.9	58.0	58.4	58.9	58.0
77.5°	49.7	47.5	47.1	47.1	45.8	45.8	46.2	45.8	45.3	45.3	45.3
80°	36.6	34.9	34.9	34.0	33.1	33.1	33.1	33.1	32.7	32.3	32.7
82.5°	23.5	23.1	22.7	22.7	23.5	21.8	22.7	22.2	21.8	21.8	21.4
85°	13.1	13.5	13.1	13.5	12.6	13.1	13.1	13.1	12.6	13.1	12.2
87.5°	4.8	4.8	4.8	5.2	5.2	5.2	5.2	5.2	5.7	5.2	5.2
90°	30.1	29.0	27.9	26.8	27.9	24.6	21.2	17.9	14.5	13.4	12.3
92.5°	74.8	86.0	110.5	155.2	207.7	230.0	171.9	112.8	77.0	67.0	56.9
95°	213.3	272.4	402.0	537.1	662.1	589.5	406.4	240.1	145.1	123.4	101.6
97.5°	549.3	696.7	923.4	1052.9	1018.3	760.4	452.2	259.0	165.2	141.2	117.2
100°	1095.3	1226.0	1316.4	1277.3	1057.4	714.6	420.9	255.7	177.5	155.8	134.0
102.5°	1403.5	1466.0	1447.0	1288.5	984.8	647.6	394.1	260.2	192.0	172.5	153.0
105°	1584.4	1563.1	1451.5	1218.1	897.7	595.1	384.1	269.1	208.8	191.5	174.2
107.5°	1646.9	1559.8	1384.5	1117.6	820.7	557.2	381.9	283.6	230.0	213.8	197.6
110°	1625.7	1485.0	1279.5	1023.9	757.0	537.1	387.4	302.6	252.3	236.7	221.1

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1548.6	1386.7	1175.7	942.4	714.6	525.9	398.6	321.6	275.8	260.7	245.6
115°	1444.8	1280.7	1086.4	879.8	686.7	524.8	410.9	342.8	300.3	285.2	270.2
117.5°	1339.8	1189.1	1017.2	838.5	667.7	525.9	426.5	365.1	322.7	308.8	294.8
120°	1249.4	1115.4	964.7	807.3	655.4	530.4	444.4	386.3	346.1	332.2	318.2
122.5°	1177.9	1056.2	923.4	781.6	647.6	538.2	461.1	408.7	369.6	354.5	339.4
125°	1116.5	1009.3	887.6	760.4	640.9	546.0	479.0	429.9	390.8	375.7	360.6
127.5°	1064.1	965.8	855.3	740.3	637.5	554.9	493.5	448.8	410.9	395.8	380.7
130°	1016.0	925.6	825.1	724.6	634.2	563.8	508.0	465.6	428.7	413.6	398.6
132.5°	970.3	887.6	797.2	710.1	633.1	570.5	521.4	480.1	444.4	429.9	415.4
135°	924.5	851.9	772.6	697.8	632.0	577.2	532.6	494.6	460.0	445.0	429.9
137.5°	880.9	816.2	749.2	686.7	629.7	581.7	541.5	504.7	471.2	457.2	443.3
140°	839.6	786.0	729.1	676.6	628.6	586.2	548.2	514.7	482.3	468.4	454.4
142.5°	801.7	757.0	710.1	667.7	626.4	589.5	554.9	522.5	491.3	478.4	465.6
145°	768.2	732.4	695.6	659.9	624.1	590.6	559.4	529.2	500.2	487.4	474.5
147.5°	743.6	713.5	683.3	652.1	620.8	590.6	562.7	534.8	508.0	496.8	485.7
150°	719.0	695.6	669.9	644.2	616.3	590.6	563.8	540.4	514.7	504.6	494.6
152.5°	698.9	678.9	657.6	635.3	610.7	587.3	566.1	543.8	522.5	513.0	503.6
155°	680.0	663.2	645.4	626.4	604.0	585.1	566.1	548.2	529.2	521.4	513.6
157.5°	661.0	647.6	632.0	616.3	598.5	581.7	567.2	550.5	534.8	528.6	522.5
160°	644.2	633.1	620.8	606.3	591.8	579.5	567.2	553.8	540.4	534.8	529.2
162.5°	627.5	617.4	607.4	596.2	585.1	575.0	566.1	554.9	543.8	539.3	534.8
165°	610.7	602.9	596.2	587.3	578.4	570.5	563.8	556.0	547.1	543.2	539.3
167.5°	596.2	591.8	586.2	578.4	571.7	566.1	562.7	556.0	549.3	546.6	543.8
170°	583.9	579.5	576.1	570.5	565.0	561.6	559.4	554.9	549.3	548.2	547.1
172.5°	572.8	569.4	567.2	562.7	559.4	558.3	558.3	554.9	550.5	549.9	549.3
175°	562.7	560.5	559.4	557.2	554.9	554.9	556.0	553.8	551.6	551.0	550.5
177.5°	556.0	554.9	553.8	552.7	551.6	552.7	554.9	552.7	551.6	551.6	551.6
180°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	449.9	449.9	449.9	449.9
2.5°	440.4	441.7	446.0	451.3
5°	431.6	435.1	441.2	449.5
7.5°	422.0	427.3	436.0	446.5
10°	411.1	418.6	429.5	442.5
12.5°	399.4	409.0	422.9	436.4
15°	392.0	401.5	414.2	429.0
17.5°	377.6	388.9	402.0	422.9
20°	362.7	375.4	392.4	413.3
22.5°	351.4	364.9	381.1	403.3
25°	337.9	351.8	369.3	392.4
27.5°	323.5	337.5	357.1	381.5
30°	312.6	326.1	344.9	371.0
32.5°	299.5	312.6	332.2	359.7
35°	284.7	299.5	318.3	346.2
37.5°	273.4	286.9	306.5	333.1
40°	261.2	272.9	292.1	318.3
42.5°	248.1	261.2	277.7	303.9
45°	235.9	245.5	262.5	287.3
47.5°	222.8	233.7	246.8	266.0
50°	208.8	218.0	232.4	245.5
52.5°	195.3	202.7	214.9	225.0
55°	180.9	188.3	197.5	203.6
57.5°	167.4	172.7	178.8	182.7
60°	150.9	156.1	160.0	163.9
62.5°	136.0	140.0	142.1	144.3
65°	120.8	122.9	124.3	126.0
67.5°	104.2	106.4	106.8	109.4
70°	88.9	89.4	90.3	91.6
72.5°	74.6	75.4	75.0	75.9
75°	59.7	60.6	59.7	60.6
77.5°	45.3	46.2	46.2	47.5
80°	32.7	33.1	33.6	33.6
82.5°	21.4	22.7	21.8	22.2
85°	12.2	12.6	12.6	13.1
87.5°	5.7	6.1	5.7	6.5
90°	10.0	6.7	4.5	2.2
92.5°	45.8	35.7	24.6	16.7
95°	72.6	53.6	41.3	38.0
97.5°	88.2	71.5	61.4	60.3
100°	107.2	91.6	83.7	82.6
102.5°	129.5	115.0	108.3	106.1
105°	153.0	139.6	132.9	129.5
107.5°	177.5	164.1	157.4	154.1
110°	202.1	189.8	184.2	180.9

TEST NUMBER: P1011540

CATALOG NUMBER: S123DIP-B340D1195UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	226.7	214.4	208.8	205.4
115°	251.2	240.1	233.4	228.9
117.5°	273.6	263.5	257.9	252.3
120°	297.0	285.8	280.2	276.9
122.5°	319.3	307.0	301.5	298.1
125°	339.4	327.1	320.4	318.2
127.5°	357.3	345.0	337.2	333.8
130°	375.2	361.8	351.7	348.4
132.5°	391.9	375.2	364.0	359.5
135°	406.4	389.7	377.4	372.9
137.5°	419.8	402.0	389.7	385.2
140°	432.1	414.2	403.1	397.5
142.5°	443.3	427.6	415.4	410.9
145°	455.5	438.8	428.7	425.4
147.5°	466.7	452.2	442.1	439.9
150°	479.0	464.5	455.5	454.4
152.5°	490.2	477.9	468.9	468.9
155°	501.3	490.2	483.5	483.5
157.5°	511.4	501.3	495.7	494.6
160°	521.4	512.5	508.0	508.0
162.5°	528.1	521.4	518.1	518.1
165°	534.8	529.2	527.0	528.1
167.5°	540.4	535.9	534.8	535.9
170°	544.9	541.5	540.4	542.6
172.5°	548.2	546.0	546.0	547.1
175°	550.5	548.2	549.3	550.5
177.5°	551.6	550.5	551.6	552.7
180°	551.6	551.6	551.6	551.6

(END OF REPORT)