

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: P1011504

Luminaire Tested: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011504
REPORT IS A COMBINATION OF REPORTS P989681 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1195UB27-4F0-XX-W2A-A4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

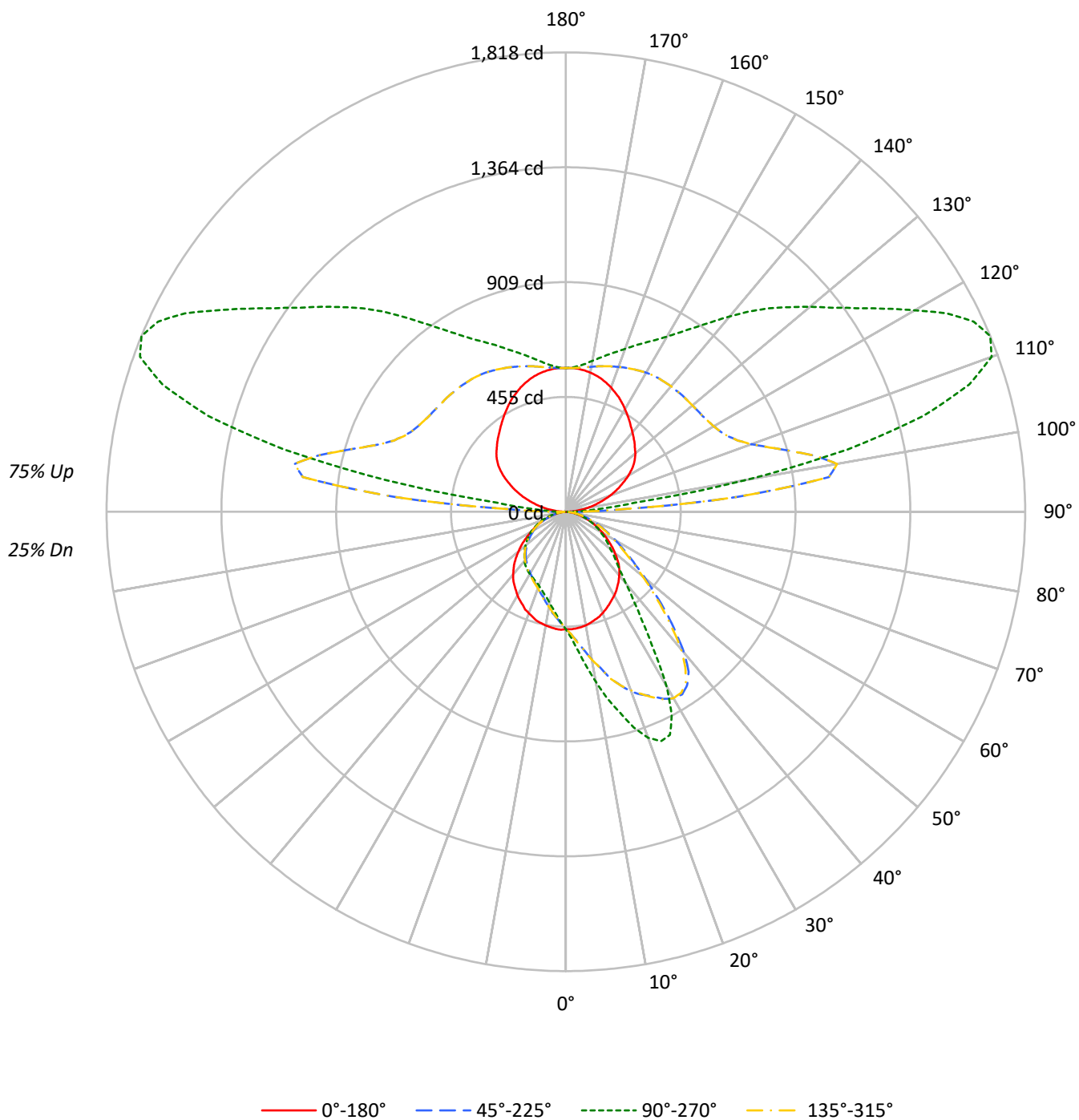
Lumens per Lamp: N/A
Luminaire Lumens: 5682.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	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°	4997	4997	4997	4997
5°	4999	5757	5014	4297
10°	4968	6966	4973	3752
15°	4899	8262	4939	3377
20°	4840	9512	4850	3108
25°	4752	9752	4763	2967
30°	4690	8057	4690	2875
35°	4612	5388	4583	2793
40°	4520	3889	4463	2669
45°	4402	3081	4276	2514
50°	4117	2616	3971	2362
55°	3807	2299	3651	2192
60°	3489	2002	3304	2013
65°	3143	1714	2990	1775
70°	2783	1423	2597	1498
75°	2377	1073	2225	1156
80°	1878	717	1732	759
85°	1297	328	1037	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	0.8
10°-20°	146.6	2.6
20°-30°	246.7	4.3
30°-40°	278.8	4.9
40°-50°	249.7	4.4
50°-60°	201.6	3.5
60°-70°	140.5	2.5
70°-80°	73.7	1.3
80°-90°	20.8	0.4
90°-100°	308.6	5.4
100°-110°	903.5	15.9
110°-120°	882.3	15.5
120°-130°	702.7	12.4
130°-140°	554.4	9.8
140°-150°	413.6	7.3
150°-160°	288.4	5.1
160°-170°	169.4	3.0
170°-180°	55.1	1.0
0°-30°	439.0	7.7
0°-40°	717.8	12.6
0°-60°	1169.1	20.6
0°-90°	1404.1	24.7
90°-120°	2094.4	36.9
90°-150°	3765.0	66.3
90°-180°	4278.0	75.3
0°-180°	5682.0	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°	2	33	2	33	2	4
95°	39	134	39	134	39	41
105°	134	1464	134	1464	134	142
115°	236	1781	236	1781	236	234
125°	328	1404	328	1404	328	291
135°	384	1139	384	1139	384	297
145°	439	890	439	890	439	275
155°	498	738	498	738	498	229
165°	544	644	544	644	544	153
175°	568	579	568	579	568	54
180°	569	569	569	569	569	

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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°	2.3	4.6	6.9	10.4	12.7	13.8	15.0	18.4	21.9	25.3	28.8
92.5°	17.3	25.3	36.8	47.2	58.7	69.1	79.4	116.3	177.3	237.2	214.1
95°	39.1	42.6	55.3	74.8	104.8	127.2	149.7	247.5	419.0	607.8	682.7
97.5°	62.2	63.3	73.7	90.9	120.9	145.6	170.4	267.1	466.2	784.0	1049.9
100°	85.2	86.3	94.4	110.5	138.1	160.6	183.0	263.6	434.0	736.8	1090.2
102.5°	109.4	111.7	118.6	133.5	157.7	177.8	198.0	268.2	406.4	667.7	1015.4
105°	133.5	137.0	143.9	157.7	179.6	197.4	215.3	277.4	396.0	613.6	925.6
107.5°	158.9	162.3	169.2	183.0	203.8	220.5	237.2	292.4	393.7	574.5	846.1
110°	186.5	190.0	195.7	208.4	227.9	244.0	260.2	312.0	399.5	553.7	780.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	211.8	215.3	221.0	233.7	253.3	268.8	284.4	331.6	411.0	542.2	736.8
115°	236.0	240.6	247.5	259.0	278.6	294.2	309.7	353.4	423.7	541.1	708.0
117.5°	260.2	265.9	271.7	282.0	303.9	318.3	332.7	376.4	439.8	542.2	688.4
120°	285.5	289.0	294.7	306.2	328.1	342.5	356.9	398.3	458.2	546.8	675.8
122.5°	307.4	310.8	316.6	329.2	350.0	365.6	381.1	421.3	475.5	554.9	667.7
125°	328.1	330.4	337.3	350.0	371.8	387.4	402.9	443.2	493.9	562.9	660.8
127.5°	344.2	347.7	355.7	368.4	392.6	408.2	423.7	462.8	508.8	572.2	657.3
130°	359.2	362.6	373.0	386.8	411.0	426.6	442.1	480.1	523.8	581.4	653.9
132.5°	370.7	375.3	386.8	404.1	428.3	443.2	458.2	495.0	537.6	588.3	652.7
135°	384.5	389.1	401.8	419.0	443.2	458.8	474.3	510.0	549.1	595.2	651.6
137.5°	397.2	401.8	414.4	432.9	457.0	471.4	485.8	520.4	558.3	599.8	649.3
140°	409.8	415.6	427.1	445.5	468.5	482.9	497.3	530.7	565.3	604.4	648.1
142.5°	423.7	428.3	440.9	457.0	480.1	493.3	506.5	538.8	572.2	607.8	645.8
145°	438.6	442.1	452.4	469.7	489.3	502.5	515.7	545.7	576.8	609.0	643.5
147.5°	453.6	455.9	466.2	481.2	500.8	512.3	523.8	551.4	580.2	609.0	640.1
150°	468.5	469.7	478.9	493.9	510.0	520.4	530.7	557.2	581.4	609.0	635.5
152.5°	483.5	483.5	492.7	505.4	519.2	529.0	538.8	560.6	583.7	605.5	629.7
155°	498.5	498.5	505.4	516.9	529.6	537.7	545.7	565.3	583.7	603.2	622.8
157.5°	510.0	511.1	516.9	527.3	538.8	545.1	551.4	567.6	584.8	599.8	617.1
160°	523.8	523.8	528.4	537.6	545.7	551.4	557.2	571.0	584.8	597.5	610.1
162.5°	534.2	534.2	537.6	544.5	551.4	556.0	560.6	572.2	583.7	592.9	603.2
165°	544.5	543.4	545.7	551.4	556.0	560.0	564.1	573.3	581.4	588.3	596.3
167.5°	552.6	551.4	552.6	557.2	560.6	563.5	566.4	573.3	580.2	583.7	589.4
170°	559.5	557.2	558.3	561.8	564.1	565.2	566.4	572.2	576.8	579.1	582.5
172.5°	564.1	562.9	562.9	565.3	566.4	567.0	567.6	572.2	575.6	575.6	576.8
175°	567.6	566.4	565.3	567.6	567.6	568.2	568.7	571.0	573.3	572.2	572.2
177.5°	569.9	568.7	567.6	568.7	568.7	568.7	568.7	569.9	572.2	569.9	568.7
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

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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°	27.6	28.8	29.9	31.1	32.2	33.4	32.2	33.4	34.5	33.4	34.5
92.5°	160.0	114.0	88.6	77.1	73.1	69.1	66.8	62.2	63.3	61.0	63.3
95°	553.7	414.4	280.9	219.9	199.2	178.4	156.6	146.2	138.1	133.5	138.1
97.5°	1085.6	952.1	718.4	566.4	500.8	435.2	358.0	314.3	286.7	274.0	286.7
100°	1317.0	1357.3	1264.0	1129.3	1047.6	965.9	849.6	765.6	720.7	721.8	720.7
102.5°	1328.5	1492.0	1511.6	1447.1	1402.8	1358.4	1274.4	1212.2	1176.6	1143.2	1176.6
105°	1256.0	1496.6	1611.7	1633.6	1618.6	1603.7	1550.7	1507.0	1470.1	1464.4	1470.1
107.5°	1152.4	1427.5	1608.3	1698.1	1713.6	1729.1	1722.2	1701.5	1686.5	1673.9	1686.5
110°	1055.7	1319.3	1531.1	1676.2	1716.5	1756.8	1789.0	1798.2	1795.9	1793.6	1795.9

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	971.6	1212.2	1429.8	1596.7	1651.4	1706.1	1771.7	1805.1	1816.6	1817.8	1816.6
115°	907.2	1120.1	1320.5	1489.7	1552.4	1615.2	1701.5	1752.2	1775.2	1780.9	1775.2
117.5°	864.6	1048.8	1226.1	1381.5	1446.6	1511.6	1601.4	1657.8	1692.3	1700.4	1692.3
120°	832.3	994.7	1150.1	1288.2	1346.4	1404.5	1495.4	1559.9	1587.5	1594.4	1587.5
122.5°	805.9	952.1	1089.1	1214.5	1267.5	1320.5	1398.7	1455.1	1486.2	1495.4	1486.2
125°	784.0	915.2	1040.7	1151.2	1197.2	1243.3	1317.0	1367.7	1396.4	1404.5	1396.4
127.5°	763.3	881.8	995.8	1097.1	1139.7	1182.3	1249.1	1292.8	1319.3	1326.2	1319.3
130°	747.1	850.8	954.4	1047.6	1086.8	1125.9	1186.9	1228.4	1252.5	1261.7	1252.5
132.5°	732.2	822.0	915.2	1000.4	1037.2	1074.1	1130.5	1171.9	1192.7	1198.4	1192.7
135°	719.5	796.6	878.4	953.2	986.0	1018.8	1075.2	1109.8	1130.5	1138.6	1130.5
137.5°	708.0	772.5	841.5	908.3	937.6	967.0	1015.4	1051.1	1068.3	1075.2	1068.3
140°	697.6	751.7	810.5	865.7	890.4	915.2	959.0	991.2	1009.6	1008.5	1009.6
142.5°	688.4	732.2	780.5	826.6	847.3	868.0	903.7	931.3	947.5	946.3	947.5
145°	680.4	717.2	755.2	792.0	808.7	825.4	854.2	878.4	887.6	889.9	887.6
147.5°	672.3	704.5	735.6	766.7	778.8	790.9	813.9	831.2	840.4	841.5	840.4
150°	664.3	690.7	717.2	741.4	752.3	763.3	780.5	793.2	800.1	800.1	800.1
152.5°	655.0	678.1	699.9	720.7	729.3	737.9	750.6	762.1	765.6	765.6	765.6
155°	645.8	665.4	683.8	701.1	708.0	714.9	725.3	734.5	736.8	737.9	736.8
157.5°	635.5	651.6	667.7	681.5	687.2	693.0	702.2	709.2	711.5	711.5	711.5
160°	625.1	640.1	652.7	664.3	668.3	672.3	680.4	687.3	687.3	686.1	687.3
162.5°	614.8	626.3	636.6	647.0	650.4	653.9	658.5	664.3	664.3	663.1	664.3
165°	605.5	614.8	621.7	629.7	632.6	635.5	640.1	644.7	643.5	643.5	643.5
167.5°	596.3	604.4	610.1	614.8	617.1	619.4	621.7	625.1	624.0	624.0	624.0
170°	588.3	594.0	597.5	602.1	603.2	604.4	605.5	607.8	606.7	606.7	606.7
172.5°	580.2	584.8	587.1	590.6	591.2	591.7	591.7	594.0	591.7	590.6	591.7
175°	574.5	576.8	577.9	580.2	580.2	580.2	580.2	581.4	580.2	579.1	580.2
177.5°	569.9	571.0	572.2	573.3	573.3	573.3	572.2	573.3	571.0	571.0	571.0
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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°	33.4	32.2	33.4	32.2	31.1	29.9	28.8	27.6	28.8	25.3	21.9
92.5°	62.2	66.8	69.1	73.1	77.1	88.6	114.0	160.0	214.1	237.2	177.3
95°	146.2	156.6	178.4	199.2	219.9	280.9	414.4	553.7	682.7	607.8	419.0
97.5°	314.3	358.0	435.2	500.8	566.4	718.4	952.1	1085.6	1049.9	784.0	466.2
100°	765.6	849.6	965.9	1047.6	1129.3	1264.0	1357.3	1317.0	1090.2	736.8	434.0
102.5°	1212.2	1274.4	1358.4	1402.8	1447.1	1511.6	1492.0	1328.5	1015.4	667.7	406.4
105°	1507.0	1550.7	1603.7	1618.6	1633.6	1611.7	1496.6	1256.0	925.6	613.6	396.0
107.5°	1701.5	1722.2	1729.1	1713.6	1698.1	1608.3	1427.5	1152.4	846.1	574.5	393.7
110°	1798.2	1789.0	1756.8	1716.5	1676.2	1531.1	1319.3	1055.7	780.5	553.7	399.5



TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1805.1	1771.7	1706.1	1651.4	1596.7	1429.8	1212.2	971.6	736.8	542.2	411.0
115°	1752.2	1701.5	1615.2	1552.4	1489.7	1320.5	1120.1	907.2	708.0	541.1	423.7
117.5°	1657.8	1601.4	1511.6	1446.6	1381.5	1226.1	1048.8	864.6	688.4	542.2	439.8
120°	1559.9	1495.4	1404.5	1346.4	1288.2	1150.1	994.7	832.3	675.8	546.8	458.2
122.5°	1455.1	1398.7	1320.5	1267.5	1214.5	1089.1	952.1	805.9	667.7	554.9	475.5
125°	1367.7	1317.0	1243.3	1197.2	1151.2	1040.7	915.2	784.0	660.8	562.9	493.9
127.5°	1292.8	1249.1	1182.3	1139.7	1097.1	995.8	881.8	763.3	657.3	572.2	508.8
130°	1228.4	1186.9	1125.9	1086.8	1047.6	954.4	850.8	747.1	653.9	581.4	523.8
132.5°	1171.9	1130.5	1074.1	1037.2	1000.4	915.2	822.0	732.2	652.7	588.3	537.6
135°	1109.8	1075.2	1018.8	986.0	953.2	878.4	796.6	719.5	651.6	595.2	549.1
137.5°	1051.1	1015.4	967.0	937.6	908.3	841.5	772.5	708.0	649.3	599.8	558.3
140°	991.2	959.0	915.2	890.4	865.7	810.5	751.7	697.6	648.1	604.4	565.3
142.5°	931.3	903.7	868.0	847.3	826.6	780.5	732.2	688.4	645.8	607.8	572.2
145°	878.4	854.2	825.4	808.7	792.0	755.2	717.2	680.4	643.5	609.0	576.8
147.5°	831.2	813.9	790.9	778.8	766.7	735.6	704.5	672.3	640.1	609.0	580.2
150°	793.2	780.5	763.3	752.3	741.4	717.2	690.7	664.3	635.5	609.0	581.4
152.5°	762.1	750.6	737.9	729.3	720.7	699.9	678.1	655.0	629.7	605.5	583.7
155°	734.5	725.3	714.9	708.0	701.1	683.8	665.4	645.8	622.8	603.2	583.7
157.5°	709.2	702.2	693.0	687.2	681.5	667.7	651.6	635.5	617.1	599.8	584.8
160°	687.3	680.4	672.3	668.3	664.3	652.7	640.1	625.1	610.1	597.5	584.8
162.5°	664.3	658.5	653.9	650.4	647.0	636.6	626.3	614.8	603.2	592.9	583.7
165°	644.7	640.1	635.5	632.6	629.7	621.7	614.8	605.5	596.3	588.3	581.4
167.5°	625.1	621.7	619.4	617.1	614.8	610.1	604.4	596.3	589.4	583.7	580.2
170°	607.8	605.5	604.4	603.2	602.1	597.5	594.0	588.3	582.5	579.1	576.8
172.5°	594.0	591.7	591.7	591.2	590.6	587.1	584.8	580.2	576.8	575.6	575.6
175°	581.4	580.2	580.2	580.2	580.2	577.9	576.8	574.5	572.2	572.2	573.3
177.5°	573.3	572.2	573.3	573.3	573.3	572.2	571.0	569.9	568.7	569.9	572.2
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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°	18.4	15.0	13.8	12.7	10.4	6.9	4.6	2.3	4.6	6.9	10.4
92.5°	116.3	79.4	69.1	58.7	47.2	36.8	25.3	17.3	25.3	36.8	47.2
95°	247.5	149.7	127.2	104.8	74.8	55.3	42.6	39.1	42.6	55.3	74.8
97.5°	267.1	170.4	145.6	120.9	90.9	73.7	63.3	62.2	63.3	73.7	90.9
100°	263.6	183.0	160.6	138.1	110.5	94.4	86.3	85.2	86.3	94.4	110.5
102.5°	268.2	198.0	177.8	157.7	133.5	118.6	111.7	109.4	111.7	118.6	133.5
105°	277.4	215.3	197.4	179.6	157.7	143.9	137.0	133.5	137.0	143.9	157.7
107.5°	292.4	237.2	220.5	203.8	183.0	169.2	162.3	158.9	162.3	169.2	183.0
110°	312.0	260.2	244.0	227.9	208.4	195.7	190.0	186.5	190.0	195.7	208.4

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	331.6	284.4	268.8	253.3	233.7	221.0	215.3	211.8	215.3	221.0	233.7
115°	353.4	309.7	294.2	278.6	259.0	247.5	240.6	236.0	240.6	247.5	259.0
117.5°	376.4	332.7	318.3	303.9	282.0	271.7	265.9	260.2	265.9	271.7	282.0
120°	398.3	356.9	342.5	328.1	306.2	294.7	289.0	285.5	289.0	294.7	306.2
122.5°	421.3	381.1	365.6	350.0	329.2	316.6	310.8	307.4	310.8	316.6	329.2
125°	443.2	402.9	387.4	371.8	350.0	337.3	330.4	328.1	330.4	337.3	350.0
127.5°	462.8	423.7	408.2	392.6	368.4	355.7	347.7	344.2	347.7	355.7	368.4
130°	480.1	442.1	426.6	411.0	386.8	373.0	362.6	359.2	362.6	373.0	386.8
132.5°	495.0	458.2	443.2	428.3	404.1	386.8	375.3	370.7	375.3	386.8	404.1
135°	510.0	474.3	458.8	443.2	419.0	401.8	389.1	384.5	389.1	401.8	419.0
137.5°	520.4	485.8	471.4	457.0	432.9	414.4	401.8	397.2	401.8	414.4	432.9
140°	530.7	497.3	482.9	468.5	445.5	427.1	415.6	409.8	415.6	427.1	445.5
142.5°	538.8	506.5	493.3	480.1	457.0	440.9	428.3	423.7	428.3	440.9	457.0
145°	545.7	515.7	502.5	489.3	469.7	452.4	442.1	438.6	442.1	452.4	469.7
147.5°	551.4	523.8	512.3	500.8	481.2	466.2	455.9	453.6	455.9	466.2	481.2
150°	557.2	530.7	520.4	510.0	493.9	478.9	469.7	468.5	469.7	478.9	493.9
152.5°	560.6	538.8	529.0	519.2	505.4	492.7	483.5	483.5	483.5	492.7	505.4
155°	565.3	545.7	537.7	529.6	516.9	505.4	498.5	498.5	498.5	505.4	516.9
157.5°	567.6	551.4	545.1	538.8	527.3	516.9	511.1	510.0	511.1	516.9	527.3
160°	571.0	557.2	551.4	545.7	537.6	528.4	523.8	523.8	523.8	528.4	537.6
162.5°	572.2	560.6	556.0	551.4	544.5	537.6	534.2	534.2	534.2	537.6	544.5
165°	573.3	564.1	560.0	556.0	551.4	545.7	543.4	544.5	543.4	545.7	551.4
167.5°	573.3	566.4	563.5	560.6	557.2	552.6	551.4	552.6	551.4	552.6	557.2
170°	572.2	566.4	565.2	564.1	561.8	558.3	557.2	559.5	557.2	558.3	561.8
172.5°	572.2	567.6	567.0	566.4	565.3	562.9	562.9	564.1	562.9	562.9	565.3
175°	571.0	568.7	568.2	567.6	567.6	565.3	566.4	567.6	566.4	565.3	567.6
177.5°	569.9	568.7	568.7	568.7	568.7	567.6	568.7	569.9	568.7	567.6	568.7
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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°	12.7	13.8	15.0	18.4	21.9	25.3	28.8	27.6	28.8	29.9	31.1
92.5°	58.7	69.1	79.4	116.3	177.3	237.2	214.1	160.0	114.0	88.6	77.1
95°	104.8	127.2	149.7	247.5	419.0	607.8	682.7	553.7	414.4	280.9	219.9
97.5°	120.9	145.6	170.4	267.1	466.2	784.0	1049.9	1085.6	952.1	718.4	566.4
100°	138.1	160.6	183.0	263.6	434.0	736.8	1090.2	1317.0	1357.3	1264.0	1129.3
102.5°	157.7	177.8	198.0	268.2	406.4	667.7	1015.4	1328.5	1492.0	1511.6	1447.1
105°	179.6	197.4	215.3	277.4	396.0	613.6	925.6	1256.0	1496.6	1611.7	1633.6
107.5°	203.8	220.5	237.2	292.4	393.7	574.5	846.1	1152.4	1427.5	1608.3	1698.1
110°	227.9	244.0	260.2	312.0	399.5	553.7	780.5	1055.7	1319.3	1531.1	1676.2

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	253.3	268.8	284.4	331.6	411.0	542.2	736.8	971.6	1212.2	1429.8	1596.7
115°	278.6	294.2	309.7	353.4	423.7	541.1	708.0	907.2	1120.1	1320.5	1489.7
117.5°	303.9	318.3	332.7	376.4	439.8	542.2	688.4	864.6	1048.8	1226.1	1381.5
120°	328.1	342.5	356.9	398.3	458.2	546.8	675.8	832.3	994.7	1150.1	1288.2
122.5°	350.0	365.6	381.1	421.3	475.5	554.9	667.7	805.9	952.1	1089.1	1214.5
125°	371.8	387.4	402.9	443.2	493.9	562.9	660.8	784.0	915.2	1040.7	1151.2
127.5°	392.6	408.2	423.7	462.8	508.8	572.2	657.3	763.3	881.8	995.8	1097.1
130°	411.0	426.6	442.1	480.1	523.8	581.4	653.9	747.1	850.8	954.4	1047.6
132.5°	428.3	443.2	458.2	495.0	537.6	588.3	652.7	732.2	822.0	915.2	1000.4
135°	443.2	458.8	474.3	510.0	549.1	595.2	651.6	719.5	796.6	878.4	953.2
137.5°	457.0	471.4	485.8	520.4	558.3	599.8	649.3	708.0	772.5	841.5	908.3
140°	468.5	482.9	497.3	530.7	565.3	604.4	648.1	697.6	751.7	810.5	865.7
142.5°	480.1	493.3	506.5	538.8	572.2	607.8	645.8	688.4	732.2	780.5	826.6
145°	489.3	502.5	515.7	545.7	576.8	609.0	643.5	680.4	717.2	755.2	792.0
147.5°	500.8	512.3	523.8	551.4	580.2	609.0	640.1	672.3	704.5	735.6	766.7
150°	510.0	520.4	530.7	557.2	581.4	609.0	635.5	664.3	690.7	717.2	741.4
152.5°	519.2	529.0	538.8	560.6	583.7	605.5	629.7	655.0	678.1	699.9	720.7
155°	529.6	537.7	545.7	565.3	583.7	603.2	622.8	645.8	665.4	683.8	701.1
157.5°	538.8	545.1	551.4	567.6	584.8	599.8	617.1	635.5	651.6	667.7	681.5
160°	545.7	551.4	557.2	571.0	584.8	597.5	610.1	625.1	640.1	652.7	664.3
162.5°	551.4	556.0	560.6	572.2	583.7	592.9	603.2	614.8	626.3	636.6	647.0
165°	556.0	560.0	564.1	573.3	581.4	588.3	596.3	605.5	614.8	621.7	629.7
167.5°	560.6	563.5	566.4	573.3	580.2	583.7	589.4	596.3	604.4	610.1	614.8
170°	564.1	565.2	566.4	572.2	576.8	579.1	582.5	588.3	594.0	597.5	602.1
172.5°	566.4	567.0	567.6	572.2	575.6	575.6	576.8	580.2	584.8	587.1	590.6
175°	567.6	568.2	568.7	571.0	573.3	572.2	572.2	574.5	576.8	577.9	580.2
177.5°	568.7	568.7	568.7	569.9	572.2	569.9	568.7	569.9	571.0	572.2	573.3
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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	33.4	32.2	33.4	34.5	33.4	34.5	33.4	32.2	33.4	32.2
92.5°	73.1	69.1	66.8	62.2	63.3	61.0	63.3	62.2	66.8	69.1	73.1
95°	199.2	178.4	156.6	146.2	138.1	133.5	138.1	146.2	156.6	178.4	199.2
97.5°	500.8	435.2	358.0	314.3	286.7	274.0	286.7	314.3	358.0	435.2	500.8
100°	1047.6	965.9	849.6	765.6	720.7	721.8	720.7	765.6	849.6	965.9	1047.6
102.5°	1402.8	1358.4	1274.4	1212.2	1176.6	1143.2	1176.6	1212.2	1274.4	1358.4	1402.8
105°	1618.6	1603.7	1550.7	1507.0	1470.1	1464.4	1470.1	1507.0	1550.7	1603.7	1618.6
107.5°	1713.6	1729.1	1722.2	1701.5	1686.5	1673.9	1686.5	1701.5	1722.2	1729.1	1713.6
110°	1716.5	1756.8	1789.0	1798.2	1795.9	1793.6	1795.9	1798.2	1789.0	1756.8	1716.5



TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1651.4	1706.1	1771.7	1805.1	1816.6	1817.8	1816.6	1805.1	1771.7	1706.1	1651.4
115°	1552.4	1615.2	1701.5	1752.2	1775.2	1780.9	1775.2	1752.2	1701.5	1615.2	1552.4
117.5°	1446.6	1511.6	1601.4	1657.8	1692.3	1700.4	1692.3	1657.8	1601.4	1511.6	1446.6
120°	1346.4	1404.5	1495.4	1559.9	1587.5	1594.4	1587.5	1559.9	1495.4	1404.5	1346.4
122.5°	1267.5	1320.5	1398.7	1455.1	1486.2	1495.4	1486.2	1455.1	1398.7	1320.5	1267.5
125°	1197.2	1243.3	1317.0	1367.7	1396.4	1404.5	1396.4	1367.7	1317.0	1243.3	1197.2
127.5°	1139.7	1182.3	1249.1	1292.8	1319.3	1326.2	1319.3	1292.8	1249.1	1182.3	1139.7
130°	1086.8	1125.9	1186.9	1228.4	1252.5	1261.7	1252.5	1228.4	1186.9	1125.9	1086.8
132.5°	1037.2	1074.1	1130.5	1171.9	1192.7	1198.4	1192.7	1171.9	1130.5	1074.1	1037.2
135°	986.0	1018.8	1075.2	1109.8	1130.5	1138.6	1130.5	1109.8	1075.2	1018.8	986.0
137.5°	937.6	967.0	1015.4	1051.1	1068.3	1075.2	1068.3	1051.1	1015.4	967.0	937.6
140°	890.4	915.2	959.0	991.2	1009.6	1008.5	1009.6	991.2	959.0	915.2	890.4
142.5°	847.3	868.0	903.7	931.3	947.5	946.3	947.5	931.3	903.7	868.0	847.3
145°	808.7	825.4	854.2	878.4	887.6	889.9	887.6	878.4	854.2	825.4	808.7
147.5°	778.8	790.9	813.9	831.2	840.4	841.5	840.4	831.2	813.9	790.9	778.8
150°	752.3	763.3	780.5	793.2	800.1	800.1	800.1	793.2	780.5	763.3	752.3
152.5°	729.3	737.9	750.6	762.1	765.6	765.6	765.6	762.1	750.6	737.9	729.3
155°	708.0	714.9	725.3	734.5	736.8	737.9	736.8	734.5	725.3	714.9	708.0
157.5°	687.2	693.0	702.2	709.2	711.5	711.5	711.5	709.2	702.2	693.0	687.2
160°	668.3	672.3	680.4	687.3	687.3	686.1	687.3	687.3	680.4	672.3	668.3
162.5°	650.4	653.9	658.5	664.3	664.3	663.1	664.3	664.3	658.5	653.9	650.4
165°	632.6	635.5	640.1	644.7	643.5	643.5	643.5	644.7	640.1	635.5	632.6
167.5°	617.1	619.4	621.7	625.1	624.0	624.0	624.0	625.1	621.7	619.4	617.1
170°	603.2	604.4	605.5	607.8	606.7	606.7	606.7	607.8	605.5	604.4	603.2
172.5°	591.2	591.7	591.7	594.0	591.7	590.6	591.7	594.0	591.7	591.7	591.2
175°	580.2	580.2	580.2	581.4	580.2	579.1	580.2	581.4	580.2	580.2	580.2
177.5°	573.3	573.3	572.2	573.3	571.0	571.0	571.0	573.3	572.2	573.3	573.3
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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°	31.1	29.9	28.8	27.6	28.8	25.3	21.9	18.4	15.0	13.8	12.7
92.5°	77.1	88.6	114.0	160.0	214.1	237.2	177.3	116.3	79.4	69.1	58.7
95°	219.9	280.9	414.4	553.7	682.7	607.8	419.0	247.5	149.7	127.2	104.8
97.5°	566.4	718.4	952.1	1085.6	1049.9	784.0	466.2	267.1	170.4	145.6	120.9
100°	1129.3	1264.0	1357.3	1317.0	1090.2	736.8	434.0	263.6	183.0	160.6	138.1
102.5°	1447.1	1511.6	1492.0	1328.5	1015.4	667.7	406.4	268.2	198.0	177.8	157.7
105°	1633.6	1611.7	1496.6	1256.0	925.6	613.6	396.0	277.4	215.3	197.4	179.6
107.5°	1698.1	1608.3	1427.5	1152.4	846.1	574.5	393.7	292.4	237.2	220.5	203.8
110°	1676.2	1531.1	1319.3	1055.7	780.5	553.7	399.5	312.0	260.2	244.0	227.9

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1596.7	1429.8	1212.2	971.6	736.8	542.2	411.0	331.6	284.4	268.8	253.3
115°	1489.7	1320.5	1120.1	907.2	708.0	541.1	423.7	353.4	309.7	294.2	278.6
117.5°	1381.5	1226.1	1048.8	864.6	688.4	542.2	439.8	376.4	332.7	318.3	303.9
120°	1288.2	1150.1	994.7	832.3	675.8	546.8	458.2	398.3	356.9	342.5	328.1
122.5°	1214.5	1089.1	952.1	805.9	667.7	554.9	475.5	421.3	381.1	365.6	350.0
125°	1151.2	1040.7	915.2	784.0	660.8	562.9	493.9	443.2	402.9	387.4	371.8
127.5°	1097.1	995.8	881.8	763.3	657.3	572.2	508.8	462.8	423.7	408.2	392.6
130°	1047.6	954.4	850.8	747.1	653.9	581.4	523.8	480.1	442.1	426.6	411.0
132.5°	1000.4	915.2	822.0	732.2	652.7	588.3	537.6	495.0	458.2	443.2	428.3
135°	953.2	878.4	796.6	719.5	651.6	595.2	549.1	510.0	474.3	458.8	443.2
137.5°	908.3	841.5	772.5	708.0	649.3	599.8	558.3	520.4	485.8	471.4	457.0
140°	865.7	810.5	751.7	697.6	648.1	604.4	565.3	530.7	497.3	482.9	468.5
142.5°	826.6	780.5	732.2	688.4	645.8	607.8	572.2	538.8	506.5	493.3	480.1
145°	792.0	755.2	717.2	680.4	643.5	609.0	576.8	545.7	515.7	502.5	489.3
147.5°	766.7	735.6	704.5	672.3	640.1	609.0	580.2	551.4	523.8	512.3	500.8
150°	741.4	717.2	690.7	664.3	635.5	609.0	581.4	557.2	530.7	520.4	510.0
152.5°	720.7	699.9	678.1	655.0	629.7	605.5	583.7	560.6	538.8	529.0	519.2
155°	701.1	683.8	665.4	645.8	622.8	603.2	583.7	565.3	545.7	537.7	529.6
157.5°	681.5	667.7	651.6	635.5	617.1	599.8	584.8	567.6	551.4	545.1	538.8
160°	664.3	652.7	640.1	625.1	610.1	597.5	584.8	571.0	557.2	551.4	545.7
162.5°	647.0	636.6	626.3	614.8	603.2	592.9	583.7	572.2	560.6	556.0	551.4
165°	629.7	621.7	614.8	605.5	596.3	588.3	581.4	573.3	564.1	560.0	556.0
167.5°	614.8	610.1	604.4	596.3	589.4	583.7	580.2	573.3	566.4	563.5	560.6
170°	602.1	597.5	594.0	588.3	582.5	579.1	576.8	572.2	566.4	565.2	564.1
172.5°	590.6	587.1	584.8	580.2	576.8	575.6	575.6	572.2	567.6	567.0	566.4
175°	580.2	577.9	576.8	574.5	572.2	572.2	573.3	571.0	568.7	568.2	567.6
177.5°	573.3	572.2	571.0	569.9	568.7	569.9	572.2	569.9	568.7	568.7	568.7
180°	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7	568.7

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

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°	10.4	6.9	4.6	2.3
92.5°	47.2	36.8	25.3	17.3
95°	74.8	55.3	42.6	39.1
97.5°	90.9	73.7	63.3	62.2
100°	110.5	94.4	86.3	85.2
102.5°	133.5	118.6	111.7	109.4
105°	157.7	143.9	137.0	133.5
107.5°	183.0	169.2	162.3	158.9
110°	208.4	195.7	190.0	186.5

TEST NUMBER: P1011504

CATALOG NUMBER: S123DIP-B340D1195UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	233.7	221.0	215.3	211.8
115°	259.0	247.5	240.6	236.0
117.5°	282.0	271.7	265.9	260.2
120°	306.2	294.7	289.0	285.5
122.5°	329.2	316.6	310.8	307.4
125°	350.0	337.3	330.4	328.1
127.5°	368.4	355.7	347.7	344.2
130°	386.8	373.0	362.6	359.2
132.5°	404.1	386.8	375.3	370.7
135°	419.0	401.8	389.1	384.5
137.5°	432.9	414.4	401.8	397.2
140°	445.5	427.1	415.6	409.8
142.5°	457.0	440.9	428.3	423.7
145°	469.7	452.4	442.1	438.6
147.5°	481.2	466.2	455.9	453.6
150°	493.9	478.9	469.7	468.5
152.5°	505.4	492.7	483.5	483.5
155°	516.9	505.4	498.5	498.5
157.5°	527.3	516.9	511.1	510.0
160°	537.6	528.4	523.8	523.8
162.5°	544.5	537.6	534.2	534.2
165°	551.4	545.7	543.4	544.5
167.5°	557.2	552.6	551.4	552.6
170°	561.8	558.3	557.2	559.5
172.5°	565.3	562.9	562.9	564.1
175°	567.6	565.3	566.4	567.6
177.5°	568.7	567.6	568.7	569.9
180°	568.7	568.7	568.7	568.7

(END OF REPORT)