

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: P1031636

Luminaire Tested: S123DIW-B340D460UB27-4F0-XX-W2A-A

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031636
REPORT IS A COMBINATION OF REPORTS P991377 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D460UB27-4F0-XX-W2A-A
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

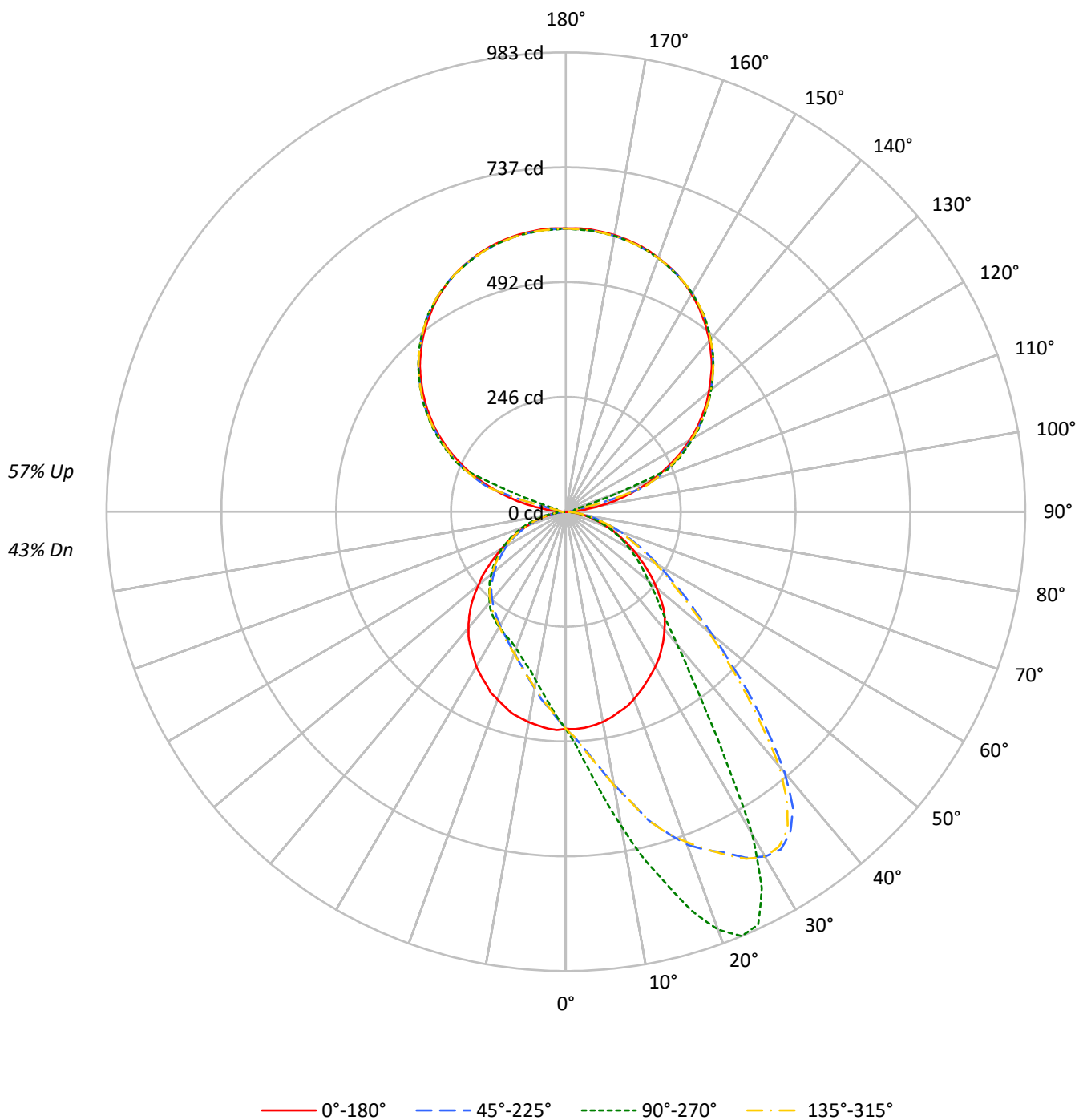
Lumens per Lamp: N/A
Luminaire Lumens: 3250.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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



TEST NUMBER: P1031636

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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	97	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36
3	80	71	64	58	73	65	59	54	55	50	46	44	41	38	35	33	31
4	74	63	55	50	67	58	51	46	49	43	40	40	36	33	31	29	27
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23
6	62	50	43	37	57	47	40	34	39	34	30	32	28	25	26	23	21
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14

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	1.4
10°-20°	146.6	4.5
20°-30°	246.7	7.6
30°-40°	278.8	8.6
40°-50°	249.7	7.7
50°-60°	201.6	6.2
60°-70°	140.5	4.3
70°-80°	73.7	2.3
80°-90°	18.9	0.6
90°-100°	21.4	0.7
100°-110°	103.3	3.2
110°-120°	253.2	7.8
120°-130°	321.5	9.9
130°-140°	343.4	10.6
140°-150°	321.1	9.9
150°-160°	259.0	8.0
160°-170°	167.2	5.1
170°-180°	57.6	1.8
0°-30°	439.0	13.5
0°-40°	717.8	22.1
0°-60°	1169.1	36.0
0°-90°	1402.2	43.1
90°-120°	378.0	11.6
90°-150°	1364.0	42.0
90°-180°	1848.0	56.9
0°-180°	3250.0	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°	0	14	0	14	0	2
95°	28	17	28	17	28	33
105°	134	20	134	20	134	142
115°	252	265	252	265	252	249
125°	355	362	355	362	355	317
135°	442	446	442	446	442	340
145°	510	515	510	515	510	319
155°	562	561	562	561	562	259
165°	592	591	592	591	592	167
175°	606	604	606	604	606	58
180°	606	606	606	606	606	

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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°	0.5	1.5	2.5	3.5	4.5	5.0	5.6	6.9	8.2	9.5	10.8
92.5°	10.4	9.8	9.2	8.6	8.0	7.7	8.1	9.0	9.9	10.8	11.7
95°	27.5	23.4	19.3	15.2	11.1	9.0	9.6	10.7	11.8	12.9	14.0
97.5°	50.0	47.2	44.4	41.6	38.8	37.4	34.8	29.7	24.6	19.5	14.4
100°	76.1	78.1	80.1	82.1	84.1	85.1	77.3	61.7	46.1	30.5	14.9
102.5°	105.8	107.1	108.4	109.7	111.0	111.7	103.0	85.6	68.1	50.7	33.3
105°	134.2	135.3	136.4	137.5	138.6	139.1	134.6	125.6	116.6	107.6	98.6
107.5°	164.4	165.3	166.2	167.1	168.0	168.4	169.2	170.7	172.2	173.7	175.2
110°	194.5	195.3	196.1	196.9	197.7	198.1	198.7	199.8	200.9	202.0	203.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	223.4	224.1	224.8	225.5	226.2	226.5	227.1	228.2	229.3	230.4	231.5
115°	251.7	252.3	252.9	253.5	254.1	254.4	254.9	255.8	256.7	257.6	258.5
117.5°	279.6	280.3	281.0	281.7	282.4	282.8	283.0	283.5	284.0	284.5	285.0
120°	305.3	306.2	307.1	308.0	308.9	309.4	309.5	309.8	310.1	310.4	310.7
122.5°	331.4	332.1	332.8	333.5	334.2	334.6	334.8	335.2	335.6	336.0	336.4
125°	354.8	355.6	356.4	357.2	358.0	358.4	358.6	359.0	359.4	359.8	360.2
127.5°	378.3	379.1	379.9	380.7	381.5	381.9	382.1	382.6	383.1	383.6	384.1
130°	399.9	400.7	401.5	402.3	403.1	403.5	403.7	404.1	404.5	404.9	405.3
132.5°	420.6	421.4	422.2	423.0	423.8	424.2	424.3	424.6	424.9	425.2	425.5
135°	441.8	442.4	443.0	443.6	444.2	444.5	444.7	445.1	445.5	445.9	446.3
137.5°	459.8	460.6	461.4	462.2	463.0	463.4	463.5	463.7	463.9	464.1	464.3
140°	477.8	478.4	479.0	479.6	480.2	480.5	480.6	480.9	481.2	481.5	481.8
142.5°	494.4	495.0	495.6	496.2	496.8	497.1	497.3	497.6	497.9	498.2	498.5
145°	509.7	510.4	511.1	511.8	512.5	512.9	513.0	513.2	513.4	513.6	513.8
147.5°	524.6	525.1	525.6	526.1	526.6	526.9	527.0	527.2	527.4	527.6	527.8
150°	538.1	538.4	538.7	539.0	539.3	539.5	539.6	539.8	540.0	540.2	540.4
152.5°	550.3	550.4	550.5	550.6	550.7	550.7	550.8	550.9	551.0	551.1	551.2
155°	561.5	561.3	561.1	560.9	560.7	560.6	560.7	560.8	560.9	561.0	561.1
157.5°	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.4	570.3	570.2	570.1
160°	578.6	578.5	578.4	578.3	578.2	578.2	578.1	578.0	577.9	577.8	577.7
162.5°	586.3	586.0	585.7	585.4	585.1	584.9	584.9	584.8	584.7	584.6	584.5
165°	592.2	591.9	591.6	591.3	591.0	590.8	590.8	590.7	590.6	590.5	590.4
167.5°	597.1	596.7	596.3	595.9	595.5	595.3	595.3	595.3	595.3	595.3	595.3
170°	601.2	600.8	600.4	600.0	599.6	599.4	599.4	599.4	599.4	599.4	599.4
172.5°	603.9	603.4	602.9	602.4	601.9	601.6	601.7	601.8	601.9	602.0	602.1
175°	606.1	605.6	605.1	604.6	604.1	603.9	603.9	604.0	604.1	604.2	604.3
177.5°	607.0	606.5	606.0	605.5	605.0	604.8	604.8	604.9	605.0	605.1	605.2
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

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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°	11.2	11.6	12.0	12.4	12.6	12.7	12.9	13.1	13.3	13.5	13.3
92.5°	12.4	13.1	13.8	14.5	14.9	14.9	15.0	15.1	15.2	15.3	15.2
95°	14.7	15.4	16.1	16.8	17.1	17.1	17.1	17.1	17.1	17.1	17.1
97.5°	15.2	16.0	16.8	17.6	18.0	18.1	18.2	18.3	18.4	18.5	18.4
100°	15.7	16.5	17.3	18.1	18.5	18.5	18.6	18.7	18.8	18.9	18.8
102.5°	30.0	26.7	23.4	20.1	18.5	18.6	18.8	19.0	19.2	19.4	19.2
105°	80.9	63.2	45.5	27.8	18.9	19.0	19.2	19.4	19.6	19.8	19.6
107.5°	159.8	144.4	128.9	113.5	105.8	99.2	86.1	73.0	59.9	46.8	59.9
110°	199.8	196.5	193.2	189.9	188.2	181.0	166.7	152.4	138.1	123.8	138.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	232.4	233.3	234.2	235.1	235.5	235.4	235.2	235.0	234.8	234.6	234.8
115°	259.5	260.5	261.5	262.5	263.0	263.2	263.6	264.0	264.4	264.8	264.4
117.5°	285.8	286.6	287.4	288.2	288.6	288.7	288.8	288.9	289.0	289.1	289.0
120°	311.5	312.3	313.1	313.9	314.3	314.3	314.3	314.3	314.3	314.3	314.3
122.5°	336.9	337.4	337.9	338.4	338.6	338.7	338.8	338.9	339.0	339.1	339.0
125°	360.4	360.6	360.8	361.0	361.1	361.2	361.4	361.6	361.8	362.0	361.8
127.5°	384.4	384.7	385.0	385.3	385.5	385.4	385.2	385.0	384.8	384.6	384.8
130°	405.7	406.1	406.5	406.9	407.1	407.0	406.8	406.6	406.4	406.2	406.4
132.5°	425.9	426.3	426.7	427.1	427.3	427.2	426.9	426.6	426.3	426.0	426.3
135°	446.6	446.9	447.2	447.5	447.6	447.5	447.2	446.9	446.6	446.3	446.6
137.5°	464.8	465.3	465.8	466.3	466.5	466.4	466.2	466.0	465.8	465.6	465.8
140°	482.2	482.6	483.0	483.4	483.6	483.5	483.3	483.1	482.9	482.7	482.9
142.5°	498.8	499.1	499.4	499.7	499.8	499.7	499.4	499.1	498.8	498.5	498.8
145°	514.0	514.2	514.4	514.6	514.7	514.7	514.7	514.7	514.7	514.7	514.7
147.5°	528.0	528.2	528.4	528.6	528.7	528.4	527.9	527.4	526.9	526.4	526.9
150°	540.6	540.8	541.0	541.2	541.3	541.1	540.8	540.5	540.2	539.9	540.2
152.5°	551.6	552.0	552.4	552.8	553.0	552.7	552.2	551.7	551.2	550.7	551.2
155°	561.6	562.1	562.6	563.1	563.3	563.0	562.4	561.8	561.2	560.6	561.2
157.5°	570.7	571.3	571.9	572.5	572.8	572.4	571.6	570.8	570.0	569.2	570.0
160°	578.3	578.9	579.5	580.1	580.4	580.1	579.4	578.7	578.0	577.3	578.0
162.5°	585.2	585.9	586.6	587.3	587.7	587.4	586.8	586.1	585.5	584.9	585.5
165°	591.2	592.0	592.8	593.6	594.0	593.6	592.9	592.2	591.5	590.8	591.5
167.5°	596.1	596.9	597.7	598.5	598.9	598.5	597.7	596.9	596.1	595.3	596.1
170°	600.2	601.0	601.8	602.6	603.0	602.6	601.8	601.0	600.2	599.4	600.2
172.5°	602.9	603.7	604.5	605.3	605.7	605.2	604.3	603.4	602.5	601.6	602.5
175°	605.0	605.7	606.4	607.1	607.5	607.1	606.3	605.5	604.7	603.9	604.7
177.5°	606.0	606.8	607.6	608.4	608.8	608.3	607.3	606.3	605.3	604.3	605.3
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	13.1	12.9	12.7	12.6	12.4	12.0	11.6	11.2	10.8	9.5	8.2
92.5°	15.1	15.0	14.9	14.9	14.5	13.8	13.1	12.4	11.7	10.8	9.9
95°	17.1	17.1	17.1	17.1	16.8	16.1	15.4	14.7	14.0	12.9	11.8
97.5°	18.3	18.2	18.1	18.0	17.6	16.8	16.0	15.2	14.4	19.5	24.6
100°	18.7	18.6	18.5	18.5	18.1	17.3	16.5	15.7	14.9	30.5	46.1
102.5°	19.0	18.8	18.6	18.5	20.1	23.4	26.7	30.0	33.3	50.7	68.1
105°	19.4	19.2	19.0	18.9	27.8	45.5	63.2	80.9	98.6	107.6	116.6
107.5°	73.0	86.1	99.2	105.8	113.5	128.9	144.4	159.8	175.2	173.7	172.2
110°	152.4	166.7	181.0	188.2	189.9	193.2	196.5	199.8	203.1	202.0	200.9



TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	235.0	235.2	235.4	235.5	235.1	234.2	233.3	232.4	231.5	230.4	229.3
115°	264.0	263.6	263.2	263.0	262.5	261.5	260.5	259.5	258.5	257.6	256.7
117.5°	288.9	288.8	288.7	288.6	288.2	287.4	286.6	285.8	285.0	284.5	284.0
120°	314.3	314.3	314.3	314.3	313.9	313.1	312.3	311.5	310.7	310.4	310.1
122.5°	338.9	338.8	338.7	338.6	338.4	337.9	337.4	336.9	336.4	336.0	335.6
125°	361.6	361.4	361.2	361.1	361.0	360.8	360.6	360.4	360.2	359.8	359.4
127.5°	385.0	385.2	385.4	385.5	385.3	385.0	384.7	384.4	384.1	383.6	383.1
130°	406.6	406.8	407.0	407.1	406.9	406.5	406.1	405.7	405.3	404.9	404.5
132.5°	426.6	426.9	427.2	427.3	427.1	426.7	426.3	425.9	425.5	425.2	424.9
135°	446.9	447.2	447.5	447.6	447.5	447.2	446.9	446.6	446.3	445.9	445.5
137.5°	466.0	466.2	466.4	466.5	466.3	465.8	465.3	464.8	464.3	464.1	463.9
140°	483.1	483.3	483.5	483.6	483.4	483.0	482.6	482.2	481.8	481.5	481.2
142.5°	499.1	499.4	499.7	499.8	499.7	499.4	499.1	498.8	498.5	498.2	497.9
145°	514.7	514.7	514.7	514.7	514.6	514.4	514.2	514.0	513.8	513.6	513.4
147.5°	527.4	527.9	528.4	528.7	528.6	528.4	528.2	528.0	527.8	527.6	527.4
150°	540.5	540.8	541.1	541.3	541.2	541.0	540.8	540.6	540.4	540.2	540.0
152.5°	551.7	552.2	552.7	553.0	552.8	552.4	552.0	551.6	551.2	551.1	551.0
155°	561.8	562.4	563.0	563.3	563.1	562.6	562.1	561.6	561.1	561.0	560.9
157.5°	570.8	571.6	572.4	572.8	572.5	571.9	571.3	570.7	570.1	570.2	570.3
160°	578.7	579.4	580.1	580.4	580.1	579.5	578.9	578.3	577.7	577.8	577.9
162.5°	586.1	586.8	587.4	587.7	587.3	586.6	585.9	585.2	584.5	584.6	584.7
165°	592.2	592.9	593.6	594.0	593.6	592.8	592.0	591.2	590.4	590.5	590.6
167.5°	596.9	597.7	598.5	598.9	598.5	597.7	596.9	596.1	595.3	595.3	595.3
170°	601.0	601.8	602.6	603.0	602.6	601.8	601.0	600.2	599.4	599.4	599.4
172.5°	603.4	604.3	605.2	605.7	605.3	604.5	603.7	602.9	602.1	602.0	601.9
175°	605.5	606.3	607.1	607.5	607.1	606.4	605.7	605.0	604.3	604.2	604.1
177.5°	606.3	607.3	608.3	608.8	608.4	607.6	606.8	606.0	605.2	605.1	605.0
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	6.9	5.6	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	9.0	8.1	7.7	8.0	8.6	9.2	9.8	10.4	9.8	9.2	8.6
95°	10.7	9.6	9.0	11.1	15.2	19.3	23.4	27.5	23.4	19.3	15.2
97.5°	29.7	34.8	37.4	38.8	41.6	44.4	47.2	50.0	47.2	44.4	41.6
100°	61.7	77.3	85.1	84.1	82.1	80.1	78.1	76.1	78.1	80.1	82.1
102.5°	85.6	103.0	111.7	111.0	109.7	108.4	107.1	105.8	107.1	108.4	109.7
105°	125.6	134.6	139.1	138.6	137.5	136.4	135.3	134.2	135.3	136.4	137.5
107.5°	170.7	169.2	168.4	168.0	167.1	166.2	165.3	164.4	165.3	166.2	167.1
110°	199.8	198.7	198.1	197.7	196.9	196.1	195.3	194.5	195.3	196.1	196.9

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	228.2	227.1	226.5	226.2	225.5	224.8	224.1	223.4	224.1	224.8	225.5
115°	255.8	254.9	254.4	254.1	253.5	252.9	252.3	251.7	252.3	252.9	253.5
117.5°	283.5	283.0	282.8	282.4	281.7	281.0	280.3	279.6	280.3	281.0	281.7
120°	309.8	309.5	309.4	308.9	308.0	307.1	306.2	305.3	306.2	307.1	308.0
122.5°	335.2	334.8	334.6	334.2	333.5	332.8	332.1	331.4	332.1	332.8	333.5
125°	359.0	358.6	358.4	358.0	357.2	356.4	355.6	354.8	355.6	356.4	357.2
127.5°	382.6	382.1	381.9	381.5	380.7	379.9	379.1	378.3	379.1	379.9	380.7
130°	404.1	403.7	403.5	403.1	402.3	401.5	400.7	399.9	400.7	401.5	402.3
132.5°	424.6	424.3	424.2	423.8	423.0	422.2	421.4	420.6	421.4	422.2	423.0
135°	445.1	444.7	444.5	444.2	443.6	443.0	442.4	441.8	442.4	443.0	443.6
137.5°	463.7	463.5	463.4	463.0	462.2	461.4	460.6	459.8	460.6	461.4	462.2
140°	480.9	480.6	480.5	480.2	479.6	479.0	478.4	477.8	478.4	479.0	479.6
142.5°	497.6	497.3	497.1	496.8	496.2	495.6	495.0	494.4	495.0	495.6	496.2
145°	513.2	513.0	512.9	512.5	511.8	511.1	510.4	509.7	510.4	511.1	511.8
147.5°	527.2	527.0	526.9	526.6	526.1	525.6	525.1	524.6	525.1	525.6	526.1
150°	539.8	539.6	539.5	539.3	539.0	538.7	538.4	538.1	538.4	538.7	539.0
152.5°	550.9	550.8	550.7	550.7	550.6	550.5	550.4	550.3	550.4	550.5	550.6
155°	560.8	560.7	560.6	560.7	560.9	561.1	561.3	561.5	561.3	561.1	560.9
157.5°	570.4	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5	570.5
160°	578.0	578.1	578.2	578.2	578.3	578.4	578.5	578.6	578.5	578.4	578.3
162.5°	584.8	584.9	584.9	585.1	585.4	585.7	586.0	586.3	586.0	585.7	585.4
165°	590.7	590.8	590.8	591.0	591.3	591.6	591.9	592.2	591.9	591.6	591.3
167.5°	595.3	595.3	595.3	595.5	595.9	596.3	596.7	597.1	596.7	596.3	595.9
170°	599.4	599.4	599.4	599.6	600.0	600.4	600.8	601.2	600.8	600.4	600.0
172.5°	601.8	601.7	601.6	601.9	602.4	602.9	603.4	603.9	603.4	602.9	602.4
175°	604.0	603.9	603.9	604.1	604.6	605.1	605.6	606.1	605.6	605.1	604.6
177.5°	604.9	604.8	604.8	605.0	605.5	606.0	606.5	607.0	606.5	606.0	605.5
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	4.5	5.0	5.6	6.9	8.2	9.5	10.8	11.2	11.6	12.0	12.4
92.5°	8.0	7.7	8.1	9.0	9.9	10.8	11.7	12.4	13.1	13.8	14.5
95°	11.1	9.0	9.6	10.7	11.8	12.9	14.0	14.7	15.4	16.1	16.8
97.5°	38.8	37.4	34.8	29.7	24.6	19.5	14.4	15.2	16.0	16.8	17.6
100°	84.1	85.1	77.3	61.7	46.1	30.5	14.9	15.7	16.5	17.3	18.1
102.5°	111.0	111.7	103.0	85.6	68.1	50.7	33.3	30.0	26.7	23.4	20.1
105°	138.6	139.1	134.6	125.6	116.6	107.6	98.6	80.9	63.2	45.5	27.8
107.5°	168.0	168.4	169.2	170.7	172.2	173.7	175.2	159.8	144.4	128.9	113.5
110°	197.7	198.1	198.7	199.8	200.9	202.0	203.1	199.8	196.5	193.2	189.9

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	226.2	226.5	227.1	228.2	229.3	230.4	231.5	232.4	233.3	234.2	235.1
115°	254.1	254.4	254.9	255.8	256.7	257.6	258.5	259.5	260.5	261.5	262.5
117.5°	282.4	282.8	283.0	283.5	284.0	284.5	285.0	285.8	286.6	287.4	288.2
120°	308.9	309.4	309.5	309.8	310.1	310.4	310.7	311.5	312.3	313.1	313.9
122.5°	334.2	334.6	334.8	335.2	335.6	336.0	336.4	336.9	337.4	337.9	338.4
125°	358.0	358.4	358.6	359.0	359.4	359.8	360.2	360.4	360.6	360.8	361.0
127.5°	381.5	381.9	382.1	382.6	383.1	383.6	384.1	384.4	384.7	385.0	385.3
130°	403.1	403.5	403.7	404.1	404.5	404.9	405.3	405.7	406.1	406.5	406.9
132.5°	423.8	424.2	424.3	424.6	424.9	425.2	425.5	425.9	426.3	426.7	427.1
135°	444.2	444.5	444.7	445.1	445.5	445.9	446.3	446.6	446.9	447.2	447.5
137.5°	463.0	463.4	463.5	463.7	463.9	464.1	464.3	464.8	465.3	465.8	466.3
140°	480.2	480.5	480.6	480.9	481.2	481.5	481.8	482.2	482.6	483.0	483.4
142.5°	496.8	497.1	497.3	497.6	497.9	498.2	498.5	498.8	499.1	499.4	499.7
145°	512.5	512.9	513.0	513.2	513.4	513.6	513.8	514.0	514.2	514.4	514.6
147.5°	526.6	526.9	527.0	527.2	527.4	527.6	527.8	528.0	528.2	528.4	528.6
150°	539.3	539.5	539.6	539.8	540.0	540.2	540.4	540.6	540.8	541.0	541.2
152.5°	550.7	550.7	550.8	550.9	551.0	551.1	551.2	551.6	552.0	552.4	552.8
155°	560.7	560.6	560.7	560.8	560.9	561.0	561.1	561.6	562.1	562.6	563.1
157.5°	570.5	570.5	570.5	570.4	570.3	570.2	570.1	570.7	571.3	571.9	572.5
160°	578.2	578.2	578.1	578.0	577.9	577.8	577.7	578.3	578.9	579.5	580.1
162.5°	585.1	584.9	584.9	584.8	584.7	584.6	584.5	585.2	585.9	586.6	587.3
165°	591.0	590.8	590.8	590.7	590.6	590.5	590.4	591.2	592.0	592.8	593.6
167.5°	595.5	595.3	595.3	595.3	595.3	595.3	595.3	596.1	596.9	597.7	598.5
170°	599.6	599.4	599.4	599.4	599.4	599.4	599.4	600.2	601.0	601.8	602.6
172.5°	601.9	601.6	601.7	601.8	601.9	602.0	602.1	602.9	603.7	604.5	605.3
175°	604.1	603.9	603.9	604.0	604.1	604.2	604.3	605.0	605.7	606.4	607.1
177.5°	605.0	604.8	604.8	604.9	605.0	605.1	605.2	606.0	606.8	607.6	608.4
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	12.6	12.7	12.9	13.1	13.3	13.5	13.3	13.1	12.9	12.7	12.6
92.5°	14.9	14.9	15.0	15.1	15.2	15.3	15.2	15.1	15.0	14.9	14.9
95°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
97.5°	18.0	18.1	18.2	18.3	18.4	18.5	18.4	18.3	18.2	18.1	18.0
100°	18.5	18.5	18.6	18.7	18.8	18.9	18.8	18.7	18.6	18.5	18.5
102.5°	18.5	18.6	18.8	19.0	19.2	19.4	19.2	19.0	18.8	18.6	18.5
105°	18.9	19.0	19.2	19.4	19.6	19.8	19.6	19.4	19.2	19.0	18.9
107.5°	105.8	99.2	86.1	73.0	59.9	46.8	59.9	73.0	86.1	99.2	105.8
110°	188.2	181.0	166.7	152.4	138.1	123.8	138.1	152.4	166.7	181.0	188.2

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	235.5	235.4	235.2	235.0	234.8	234.6	234.8	235.0	235.2	235.4	235.5
115°	263.0	263.2	263.6	264.0	264.4	264.8	264.4	264.0	263.6	263.2	263.0
117.5°	288.6	288.7	288.8	288.9	289.0	289.1	289.0	288.9	288.8	288.7	288.6
120°	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3	314.3
122.5°	338.6	338.7	338.8	338.9	339.0	339.1	339.0	338.9	338.8	338.7	338.6
125°	361.1	361.2	361.4	361.6	361.8	362.0	361.8	361.6	361.4	361.2	361.1
127.5°	385.5	385.4	385.2	385.0	384.8	384.6	384.8	385.0	385.2	385.4	385.5
130°	407.1	407.0	406.8	406.6	406.4	406.2	406.4	406.6	406.8	407.0	407.1
132.5°	427.3	427.2	426.9	426.6	426.3	426.0	426.3	426.6	426.9	427.2	427.3
135°	447.6	447.5	447.2	446.9	446.6	446.3	446.6	446.9	447.2	447.5	447.6
137.5°	466.5	466.4	466.2	466.0	465.8	465.6	465.8	466.0	466.2	466.4	466.5
140°	483.6	483.5	483.3	483.1	482.9	482.7	482.9	483.1	483.3	483.5	483.6
142.5°	499.8	499.7	499.4	499.1	498.8	498.5	498.8	499.1	499.4	499.7	499.8
145°	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7	514.7
147.5°	528.7	528.4	527.9	527.4	526.9	526.4	526.9	527.4	527.9	528.4	528.7
150°	541.3	541.1	540.8	540.5	540.2	539.9	540.2	540.5	540.8	541.1	541.3
152.5°	553.0	552.7	552.2	551.7	551.2	550.7	551.2	551.7	552.2	552.7	553.0
155°	563.3	563.0	562.4	561.8	561.2	560.6	561.2	561.8	562.4	563.0	563.3
157.5°	572.8	572.4	571.6	570.8	570.0	569.2	570.0	570.8	571.6	572.4	572.8
160°	580.4	580.1	579.4	578.7	578.0	577.3	578.0	578.7	579.4	580.1	580.4
162.5°	587.7	587.4	586.8	586.1	585.5	584.9	585.5	586.1	586.8	587.4	587.7
165°	594.0	593.6	592.9	592.2	591.5	590.8	591.5	592.2	592.9	593.6	594.0
167.5°	598.9	598.5	597.7	596.9	596.1	595.3	596.1	596.9	597.7	598.5	598.9
170°	603.0	602.6	601.8	601.0	600.2	599.4	600.2	601.0	601.8	602.6	603.0
172.5°	605.7	605.2	604.3	603.4	602.5	601.6	602.5	603.4	604.3	605.2	605.7
175°	607.5	607.1	606.3	605.5	604.7	603.9	604.7	605.5	606.3	607.1	607.5
177.5°	608.8	608.3	607.3	606.3	605.3	604.3	605.3	606.3	607.3	608.3	608.8
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	12.4	12.0	11.6	11.2	10.8	9.5	8.2	6.9	5.6	5.0	4.5
92.5°	14.5	13.8	13.1	12.4	11.7	10.8	9.9	9.0	8.1	7.7	8.0
95°	16.8	16.1	15.4	14.7	14.0	12.9	11.8	10.7	9.6	9.0	11.1
97.5°	17.6	16.8	16.0	15.2	14.4	19.5	24.6	29.7	34.8	37.4	38.8
100°	18.1	17.3	16.5	15.7	14.9	30.5	46.1	61.7	77.3	85.1	84.1
102.5°	20.1	23.4	26.7	30.0	33.3	50.7	68.1	85.6	103.0	111.7	111.0
105°	27.8	45.5	63.2	80.9	98.6	107.6	116.6	125.6	134.6	139.1	138.6
107.5°	113.5	128.9	144.4	159.8	175.2	173.7	172.2	170.7	169.2	168.4	168.0
110°	189.9	193.2	196.5	199.8	203.1	202.0	200.9	199.8	198.7	198.1	197.7

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	235.1	234.2	233.3	232.4	231.5	230.4	229.3	228.2	227.1	226.5	226.2
115°	262.5	261.5	260.5	259.5	258.5	257.6	256.7	255.8	254.9	254.4	254.1
117.5°	288.2	287.4	286.6	285.8	285.0	284.5	284.0	283.5	283.0	282.8	282.4
120°	313.9	313.1	312.3	311.5	310.7	310.4	310.1	309.8	309.5	309.4	308.9
122.5°	338.4	337.9	337.4	336.9	336.4	336.0	335.6	335.2	334.8	334.6	334.2
125°	361.0	360.8	360.6	360.4	360.2	359.8	359.4	359.0	358.6	358.4	358.0
127.5°	385.3	385.0	384.7	384.4	384.1	383.6	383.1	382.6	382.1	381.9	381.5
130°	406.9	406.5	406.1	405.7	405.3	404.9	404.5	404.1	403.7	403.5	403.1
132.5°	427.1	426.7	426.3	425.9	425.5	425.2	424.9	424.6	424.3	424.2	423.8
135°	447.5	447.2	446.9	446.6	446.3	445.9	445.5	445.1	444.7	444.5	444.2
137.5°	466.3	465.8	465.3	464.8	464.3	464.1	463.9	463.7	463.5	463.4	463.0
140°	483.4	483.0	482.6	482.2	481.8	481.5	481.2	480.9	480.6	480.5	480.2
142.5°	499.7	499.4	499.1	498.8	498.5	498.2	497.9	497.6	497.3	497.1	496.8
145°	514.6	514.4	514.2	514.0	513.8	513.6	513.4	513.2	513.0	512.9	512.5
147.5°	528.6	528.4	528.2	528.0	527.8	527.6	527.4	527.2	527.0	526.9	526.6
150°	541.2	541.0	540.8	540.6	540.4	540.2	540.0	539.8	539.6	539.5	539.3
152.5°	552.8	552.4	552.0	551.6	551.2	551.1	551.0	550.9	550.8	550.7	550.7
155°	563.1	562.6	562.1	561.6	561.1	561.0	560.9	560.8	560.7	560.6	560.7
157.5°	572.5	571.9	571.3	570.7	570.1	570.2	570.3	570.4	570.5	570.5	570.5
160°	580.1	579.5	578.9	578.3	577.7	577.8	577.9	578.0	578.1	578.2	578.2
162.5°	587.3	586.6	585.9	585.2	584.5	584.6	584.7	584.8	584.9	584.9	585.1
165°	593.6	592.8	592.0	591.2	590.4	590.5	590.6	590.7	590.8	590.8	591.0
167.5°	598.5	597.7	596.9	596.1	595.3	595.3	595.3	595.3	595.3	595.3	595.5
170°	602.6	601.8	601.0	600.2	599.4	599.4	599.4	599.4	599.4	599.4	599.6
172.5°	605.3	604.5	603.7	602.9	602.1	602.0	601.9	601.8	601.7	601.6	601.9
175°	607.1	606.4	605.7	605.0	604.3	604.2	604.1	604.0	603.9	603.9	604.1
177.5°	608.4	607.6	606.8	606.0	605.2	605.1	605.0	604.9	604.8	604.8	605.0
180°	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1	606.1

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

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°	3.5	2.5	1.5	0.5
92.5°	8.6	9.2	9.8	10.4
95°	15.2	19.3	23.4	27.5
97.5°	41.6	44.4	47.2	50.0
100°	82.1	80.1	78.1	76.1
102.5°	109.7	108.4	107.1	105.8
105°	137.5	136.4	135.3	134.2
107.5°	167.1	166.2	165.3	164.4
110°	196.9	196.1	195.3	194.5

TEST NUMBER: P1031636

CATALOG NUMBER: S123DIW-B340D460UB27-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	225.5	224.8	224.1	223.4
115°	253.5	252.9	252.3	251.7
117.5°	281.7	281.0	280.3	279.6
120°	308.0	307.1	306.2	305.3
122.5°	333.5	332.8	332.1	331.4
125°	357.2	356.4	355.6	354.8
127.5°	380.7	379.9	379.1	378.3
130°	402.3	401.5	400.7	399.9
132.5°	423.0	422.2	421.4	420.6
135°	443.6	443.0	442.4	441.8
137.5°	462.2	461.4	460.6	459.8
140°	479.6	479.0	478.4	477.8
142.5°	496.2	495.6	495.0	494.4
145°	511.8	511.1	510.4	509.7
147.5°	526.1	525.6	525.1	524.6
150°	539.0	538.7	538.4	538.1
152.5°	550.6	550.5	550.4	550.3
155°	560.9	561.1	561.3	561.5
157.5°	570.5	570.5	570.5	570.5
160°	578.3	578.4	578.5	578.6
162.5°	585.4	585.7	586.0	586.3
165°	591.3	591.6	591.9	592.2
167.5°	595.9	596.3	596.7	597.1
170°	600.0	600.4	600.8	601.2
172.5°	602.4	602.9	603.4	603.9
175°	604.6	605.1	605.6	606.1
177.5°	605.5	606.0	606.5	607.0
180°	606.1	606.1	606.1	606.1

(END OF REPORT)