

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: P1031642

Luminaire Tested: S123DIW-B340D460UB30-4F0-XX-W2A-A

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031642
REPORT IS A COMBINATION OF REPORTS P991407 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D460UB30-4F0-XX-W2A-A
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

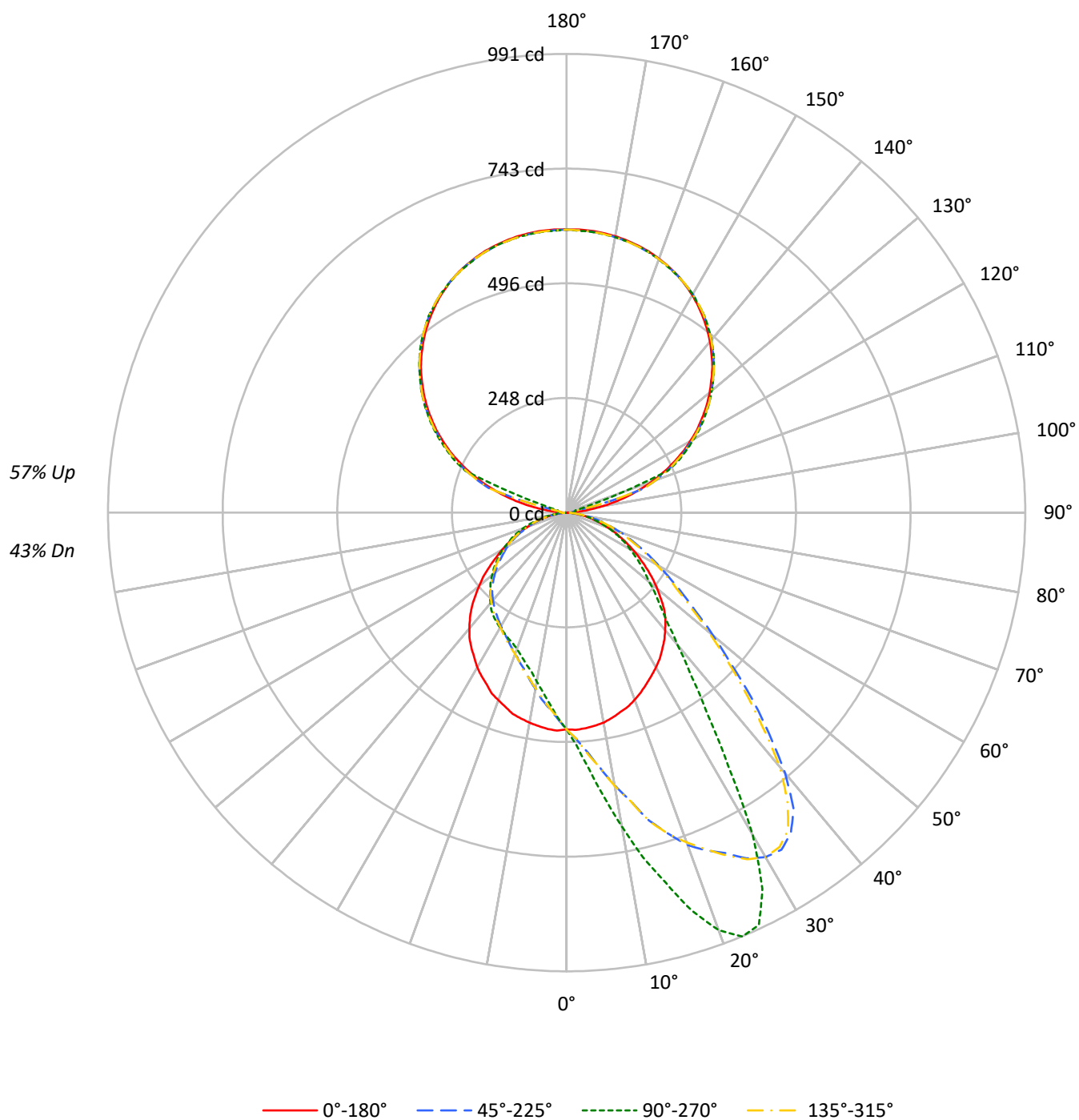
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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



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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	96	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	16
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°	5040	5040	5040	5040
5°	5042	5807	5058	4334
10°	5011	7026	5016	3784
15°	4941	8333	4981	3406
20°	4882	9594	4892	3135
25°	4793	9835	4804	2993
30°	4731	8126	4731	2900
35°	4652	5434	4622	2818
40°	4558	3923	4502	2692
45°	4441	3108	4311	2536
50°	4153	2639	4005	2381
55°	3839	2319	3682	2211
60°	3520	2019	3332	2031
65°	3169	1729	3017	1792
70°	2806	1435	2618	1510
75°	2400	1083	2244	1166
80°	1895	723	1748	766
85°	1306	332	1047	301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.4
10°-20°	147.9	4.5
20°-30°	248.8	7.6
30°-40°	281.2	8.6
40°-50°	251.9	7.7
50°-60°	203.3	6.2
60°-70°	141.7	4.3
70°-80°	74.4	2.3
80°-90°	19.0	0.6
90°-100°	21.6	0.7
100°-110°	104.2	3.2
110°-120°	255.4	7.8
120°-130°	324.3	9.9
130°-140°	346.4	10.6
140°-150°	323.9	9.9
150°-160°	261.3	8.0
160°-170°	168.6	5.1
170°-180°	58.1	1.8
0°-30°	442.8	13.5
0°-40°	724.0	22.1
0°-60°	1179.1	36.0
0°-90°	1414.2	43.1
90°-120°	381.2	11.6
90°-150°	1375.8	42.0
90°-180°	1864.0	56.9
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	468	468	468	468	468	
5°	468	556	469	415	468	44
15°	446	828	450	338	446	126
25°	408	983	409	299	408	188
35°	360	529	358	274	360	225
45°	299	286	290	233	299	229
55°	212	194	203	185	212	190
65°	131	126	125	131	131	131
75°	63	65	59	70	63	68
85°	14	15	11	14	14	16
90°	0	14	0	14	0	2
95°	28	17	28	17	28	33
105°	135	20	135	20	135	144
115°	254	267	254	267	254	251
125°	358	365	358	365	358	320
135°	446	450	446	450	446	343
145°	514	519	514	519	514	322
155°	566	566	566	566	566	261
165°	597	596	597	596	597	169
175°	611	609	611	609	611	58
180°	611	611	611	611	611	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	469.5	473.2	475.0	477.7	480.4	484.5	485.9	488.1	487.2	489.0	489.9
5°	467.7	474.1	479.5	486.3	492.7	497.2	501.7	509.0	514.4	515.3	519.4
7.5°	464.5	473.6	483.1	492.7	504.9	512.2	520.3	530.3	538.5	551.6	556.6
10°	460.5	473.2	486.8	499.9	516.7	528.0	538.0	554.8	571.6	585.2	597.9
12.5°	454.1	470.0	487.7	507.2	529.0	542.1	555.7	577.9	603.4	624.2	637.8
15°	446.4	466.4	489.0	509.9	533.9	558.4	573.0	597.9	634.2	653.7	688.6
17.5°	440.0	460.5	483.1	515.8	548.5	573.0	583.4	629.2	654.2	686.8	726.3
20°	430.1	455.9	485.0	517.6	559.8	574.8	596.1	642.4	673.2	715.9	764.4
22.5°	419.6	447.3	482.2	516.3	563.4	579.3	608.3	645.1	694.1	736.3	789.8
25°	408.3	438.2	473.6	514.0	560.3	583.4	610.6	656.0	709.1	762.1	811.6
27.5°	396.9	429.6	466.4	506.7	551.6	578.9	606.1	653.3	721.3	778.9	842.0
30°	386.1	418.7	455.5	496.7	543.9	570.2	596.1	655.1	730.8	795.7	859.2
32.5°	374.3	407.8	446.4	480.9	528.5	556.6	585.7	655.1	736.7	805.7	863.7
35°	360.2	394.7	427.8	462.3	509.4	540.7	573.4	650.5	742.2	808.9	844.7
37.5°	346.6	377.0	405.6	439.1	488.6	522.2	559.8	645.1	739.4	795.2	805.2
40°	331.2	361.6	384.7	416.0	468.2	507.2	545.3	637.8	727.7	763.0	734.0
42.5°	316.2	340.2	360.2	390.6	447.3	485.4	526.7	624.7	704.5	711.8	646.5
45°	299.0	316.2	333.9	368.4	424.6	463.6	509.4	605.6	667.3	646.5	563.9
47.5°	276.7	292.2	311.7	343.4	400.6	440.9	484.5	581.1	613.3	569.8	479.5
50°	255.4	268.6	286.7	317.6	375.2	414.6	460.9	542.6	558.4	489.9	413.3
52.5°	234.1	244.1	261.8	292.6	350.2	388.3	430.5	503.1	494.0	420.5	352.5
55°	211.9	220.5	237.3	267.7	321.2	357.5	397.9	454.6	431.0	361.1	306.7
57.5°	190.1	199.2	216.4	241.8	292.2	327.5	359.7	404.2	368.8	313.0	264.9
60°	170.6	178.3	191.4	216.4	262.2	290.8	320.3	350.7	321.2	267.2	230.5
62.5°	150.2	157.4	169.7	192.3	231.8	257.2	280.8	305.8	273.1	233.6	201.0
65°	131.1	137.0	148.3	169.2	201.4	222.3	241.3	258.6	232.3	196.0	171.5
67.5°	113.9	118.9	128.4	147.0	174.2	189.2	204.6	219.1	196.9	167.9	147.0
70°	95.3	99.3	108.0	121.6	143.4	158.8	170.1	181.0	161.0	137.9	123.8
72.5°	78.9	83.0	88.5	102.5	117.5	127.0	139.3	145.2	133.8	114.8	100.7
75°	63.1	66.2	71.2	80.3	94.4	100.7	108.4	113.0	102.5	89.8	81.2
77.5°	49.4	50.8	54.4	60.8	70.3	77.6	83.5	86.2	78.9	70.8	63.5
80°	34.9	36.7	39.5	44.9	52.2	54.4	58.1	61.2	56.7	49.4	44.9
82.5°	23.1	25.4	26.8	29.0	33.6	36.3	37.2	39.9	35.8	33.1	31.3
85°	13.6	14.5	15.0	16.3	18.6	20.0	21.3	21.8	20.9	20.4	18.6
87.5°	6.8	6.8	6.8	7.7	8.2	9.1	9.5	9.5	9.5	9.1	8.6
90°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.6	10.9
92.5°	10.4	9.8	9.2	8.6	8.0	7.7	8.2	9.1	10.0	10.9	11.8
95°	27.7	23.6	19.4	15.3	11.2	9.1	9.7	10.8	11.9	13.0	14.1
97.5°	50.4	47.6	44.8	41.9	39.1	37.7	35.1	30.0	24.8	19.7	14.5
100°	76.8	78.8	80.8	82.8	84.8	85.8	77.9	62.2	46.5	30.7	15.0
102.5°	106.7	108.0	109.3	110.6	111.9	112.6	103.8	86.3	68.7	51.2	33.6
105°	135.4	136.5	137.6	138.7	139.8	140.3	135.8	126.7	117.6	108.6	99.5
107.5°	165.8	166.7	167.6	168.5	169.4	169.9	170.7	172.2	173.7	175.2	176.7
110°	196.2	197.0	197.8	198.6	199.4	199.8	200.4	201.5	202.6	203.7	204.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	225.3	226.0	226.7	227.4	228.1	228.5	229.1	230.2	231.3	232.4	233.5
115°	253.9	254.5	255.1	255.7	256.3	256.6	257.1	258.0	258.9	259.8	260.7
117.5°	282.1	282.8	283.5	284.2	284.9	285.2	285.5	286.0	286.5	287.0	287.5
120°	308.0	308.9	309.8	310.7	311.6	312.0	312.2	312.5	312.8	313.1	313.4
122.5°	334.3	335.0	335.7	336.4	337.1	337.5	337.7	338.1	338.5	338.9	339.3
125°	357.9	358.7	359.5	360.3	361.1	361.5	361.7	362.1	362.6	363.0	363.4
127.5°	381.5	382.3	383.1	384.0	384.8	385.2	385.4	385.9	386.4	386.9	387.4
130°	403.3	404.1	404.9	405.8	406.6	407.0	407.2	407.6	408.0	408.4	408.8
132.5°	424.2	425.0	425.8	426.7	427.5	427.9	428.0	428.3	428.6	428.9	429.2
135°	445.6	446.2	446.8	447.4	448.0	448.3	448.5	448.9	449.3	449.7	450.1
137.5°	463.7	464.5	465.3	466.2	467.0	467.4	467.5	467.7	467.9	468.1	468.3
140°	481.9	482.5	483.1	483.7	484.3	484.6	484.8	485.1	485.4	485.7	486.0
142.5°	498.7	499.3	499.9	500.5	501.1	501.4	501.6	501.9	502.2	502.5	502.8
145°	514.2	514.9	515.6	516.3	517.0	517.3	517.4	517.6	517.8	518.0	518.2
147.5°	529.1	529.6	530.1	530.6	531.1	531.4	531.5	531.7	531.9	532.1	532.3
150°	542.8	543.1	543.4	543.7	544.0	544.1	544.2	544.4	544.6	544.8	545.0
152.5°	555.0	555.1	555.2	555.3	555.4	555.5	555.5	555.6	555.7	555.8	555.9
155°	566.4	566.2	566.0	565.8	565.6	565.5	565.5	565.6	565.7	565.8	565.9
157.5°	575.5	575.5	575.5	575.5	575.5	575.5	575.4	575.3	575.2	575.1	575.0
160°	583.7	583.6	583.5	583.4	583.3	583.2	583.1	583.0	582.9	582.8	582.7
162.5°	591.4	591.1	590.8	590.5	590.2	590.0	590.0	589.9	589.8	589.7	589.6
165°	597.3	597.0	596.7	596.4	596.1	595.9	595.9	595.8	595.7	595.6	595.5
167.5°	602.3	601.9	601.5	601.1	600.7	600.5	600.5	600.5	600.5	600.5	600.5
170°	606.4	606.0	605.6	605.1	604.7	604.5	604.5	604.5	604.5	604.5	604.5
172.5°	609.1	608.6	608.1	607.6	607.1	606.8	606.9	607.0	607.1	607.2	607.3
175°	611.4	610.9	610.4	609.9	609.4	609.1	609.1	609.2	609.3	609.4	609.5
177.5°	612.3	611.8	611.3	610.8	610.3	610.0	610.1	610.2	610.3	610.4	610.5
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	493.1	494.0	497.2	499.5	504.0	503.6	503.6	503.1	501.7	504.0	505.4
5°	527.6	535.3	536.2	546.2	546.6	550.7	553.5	551.2	556.6	556.2	552.1
7.5°	570.2	580.7	585.7	595.2	606.1	603.4	613.8	615.6	614.7	619.2	622.4
10°	617.0	635.1	647.8	665.5	670.0	672.8	679.6	685.5	697.3	688.2	694.1
12.5°	670.5	683.6	700.4	728.6	742.6	751.7	754.9	759.0	767.1	762.1	762.6
15°	715.4	733.1	761.7	796.6	800.7	812.0	809.3	833.8	845.6	827.9	837.9
17.5°	762.1	785.7	819.7	850.1	867.4	875.1	882.3	905.9	905.0	902.3	904.6
20°	792.1	830.6	872.8	913.2	918.2	924.1	943.6	953.6	951.8	959.5	964.5
22.5°	834.3	875.1	920.0	946.8	958.1	964.9	980.3	986.7	989.4	991.2	988.0
25°	869.6	913.2	946.3	969.9	976.7	980.3	985.3	987.1	985.8	982.6	985.3
27.5°	893.7	928.6	951.3	962.2	958.6	952.7	943.1	936.8	922.7	915.9	924.1
30°	903.7	919.1	925.9	907.8	889.6	875.1	856.9	823.4	797.1	804.8	794.3
32.5°	887.8	877.8	845.1	798.4	784.4	760.8	709.5	670.0	671.4	650.5	659.2
35°	841.1	795.7	734.0	663.2	644.6	631.9	575.7	567.1	548.9	529.4	534.9
37.5°	758.5	692.3	617.4	565.2	537.6	509.9	478.1	459.1	448.2	440.0	446.4
40°	657.8	577.0	515.3	468.6	445.0	427.3	405.6	386.5	374.3	372.9	375.2
42.5°	558.9	490.8	434.1	389.7	382.0	361.1	347.0	332.1	328.4	322.5	325.7
45°	473.2	417.8	371.1	334.8	325.7	320.3	303.0	293.5	289.4	285.8	291.2
47.5°	411.0	352.9	318.9	297.1	288.1	279.0	269.5	263.1	259.9	260.4	259.9
50°	351.1	308.5	278.5	261.8	256.3	250.0	242.2	238.2	236.8	232.7	235.9
52.5°	302.1	271.3	250.4	234.5	230.5	225.9	219.6	217.3	214.1	213.2	213.2
55°	262.7	238.6	221.8	211.4	206.4	202.8	199.2	196.4	194.2	194.2	194.2
57.5°	231.8	210.9	198.7	189.6	187.8	184.2	180.1	180.1	176.9	176.5	177.8
60°	205.5	186.9	177.4	169.7	166.9	166.0	162.0	162.0	161.0	158.8	160.6
62.5°	178.7	165.1	157.0	151.1	148.3	148.3	145.2	142.9	142.9	143.4	142.4
65°	154.2	144.3	137.0	132.5	131.1	129.3	128.8	127.0	125.7	126.1	125.7
67.5°	132.5	124.8	119.8	116.1	113.9	113.0	111.6	111.6	110.7	111.1	108.9
70°	113.0	105.2	101.2	97.5	96.6	96.6	94.8	95.3	94.4	95.7	94.8
72.5°	93.0	87.1	83.9	82.6	81.7	81.2	80.3	79.4	78.9	79.8	79.4
75°	75.3	70.3	68.0	67.1	66.2	66.2	65.8	65.3	64.9	64.9	64.9
77.5°	58.5	55.3	52.6	53.5	52.2	52.6	51.3	51.3	51.7	51.3	51.3
80°	43.1	40.8	40.8	39.9	38.1	39.0	39.0	37.7	37.2	38.1	36.7
82.5°	28.6	28.1	27.2	26.8	25.9	26.3	25.9	25.4	25.0	25.9	25.0
85°	16.8	16.8	16.3	15.4	16.3	15.9	15.4	15.4	15.0	15.0	15.0
87.5°	8.6	7.7	7.7	7.3	7.7	6.8	7.3	6.8	6.4	6.8	6.4
90°	11.3	11.7	12.1	12.5	12.7	12.8	13.0	13.2	13.4	13.6	13.4
92.5°	12.5	13.2	13.9	14.6	15.0	15.0	15.1	15.2	15.3	15.4	15.3
95°	14.8	15.5	16.2	16.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	15.3	16.1	17.0	17.8	18.2	18.2	18.3	18.4	18.5	18.6	18.5
100°	15.8	16.6	17.4	18.2	18.6	18.7	18.8	18.9	19.0	19.1	19.0
102.5°	30.3	26.9	23.6	20.3	18.6	18.7	18.9	19.1	19.3	19.5	19.3
105°	81.6	63.8	45.9	28.0	19.1	19.2	19.4	19.6	19.8	20.0	19.8
107.5°	161.1	145.6	130.0	114.5	106.7	100.1	86.9	73.6	60.4	47.2	60.4
110°	201.5	198.2	194.9	191.6	189.9	182.7	168.2	153.8	139.3	124.9	139.3

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	234.4	235.3	236.2	237.1	237.5	237.4	237.2	237.0	236.8	236.6	236.8
115°	261.7	262.7	263.8	264.8	265.3	265.5	265.9	266.3	266.7	267.1	266.7
117.5°	288.3	289.1	289.9	290.7	291.1	291.2	291.3	291.4	291.5	291.6	291.5
120°	314.2	315.0	315.8	316.6	317.0	317.0	317.0	317.0	317.0	317.0	317.0
122.5°	339.8	340.3	340.8	341.3	341.6	341.6	341.7	341.8	341.9	342.0	341.9
125°	363.6	363.8	364.0	364.2	364.3	364.4	364.6	364.8	365.0	365.2	365.0
127.5°	387.7	388.0	388.3	388.6	388.8	388.7	388.5	388.3	388.1	387.9	388.1
130°	409.2	409.6	410.0	410.4	410.6	410.5	410.3	410.1	409.9	409.7	409.9
132.5°	429.6	430.0	430.4	430.8	431.0	430.9	430.6	430.3	430.0	429.7	430.0
135°	450.4	450.7	451.0	451.3	451.5	451.3	451.0	450.7	450.4	450.1	450.4
137.5°	468.8	469.3	469.8	470.3	470.6	470.5	470.3	470.0	469.8	469.6	469.8
140°	486.4	486.8	487.2	487.6	487.8	487.7	487.5	487.3	487.1	486.9	487.1
142.5°	503.1	503.4	503.7	504.0	504.2	504.0	503.7	503.4	503.1	502.8	503.1
145°	518.4	518.6	518.9	519.1	519.2	519.2	519.2	519.2	519.2	519.2	519.2
147.5°	532.5	532.7	532.9	533.1	533.2	533.0	532.5	532.0	531.5	531.0	531.5
150°	545.2	545.4	545.7	545.9	546.0	545.8	545.5	545.2	544.9	544.6	544.9
152.5°	556.3	556.7	557.2	557.6	557.8	557.5	557.0	556.5	556.0	555.5	556.0
155°	566.4	566.9	567.4	567.9	568.2	567.9	567.3	566.7	566.1	565.5	566.1
157.5°	575.6	576.2	576.8	577.4	577.7	577.3	576.5	575.7	574.9	574.1	574.9
160°	583.3	583.9	584.6	585.2	585.5	585.1	584.4	583.7	583.0	582.3	583.0
162.5°	590.3	591.0	591.7	592.4	592.7	592.4	591.8	591.2	590.6	590.0	590.6
165°	596.3	597.1	597.9	598.7	599.1	598.7	598.0	597.3	596.6	595.9	596.6
167.5°	601.3	602.1	602.9	603.7	604.1	603.7	602.9	602.1	601.3	600.5	601.3
170°	605.3	606.1	607.0	607.8	608.2	607.8	607.0	606.1	605.3	604.5	605.3
172.5°	608.1	608.9	609.7	610.5	610.9	610.4	609.5	608.6	607.7	606.8	607.7
175°	610.2	610.9	611.6	612.3	612.7	612.3	611.5	610.7	609.9	609.1	609.9
177.5°	611.3	612.1	612.9	613.7	614.1	613.6	612.6	611.5	610.5	609.5	610.5
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	501.7	503.1	499.5	498.6	498.6	500.4	499.0	486.8	489.0	486.3	485.4
5°	557.1	554.4	550.7	548.9	546.6	540.3	539.8	525.8	523.1	514.0	509.9
7.5°	617.9	615.6	604.7	603.4	602.4	596.5	581.6	566.6	555.7	545.3	535.3
10°	687.3	680.5	675.5	665.5	660.5	652.3	632.8	618.8	600.2	584.3	563.4
12.5°	770.7	763.0	746.3	739.0	732.6	710.0	690.5	674.6	638.3	627.4	601.5
15°	832.0	815.7	813.8	798.0	797.1	772.1	734.9	717.7	689.5	649.6	622.9
17.5°	898.2	883.7	872.4	853.3	850.6	827.0	799.8	757.6	726.7	688.6	654.6
20°	946.8	939.1	919.5	911.8	896.0	876.0	847.9	795.7	758.0	719.9	678.2
22.5°	985.3	977.6	962.2	951.8	942.7	916.8	883.3	838.8	787.1	737.2	694.1
25°	984.9	982.6	976.3	971.3	964.5	945.4	917.3	874.6	817.0	762.1	702.2
27.5°	929.1	935.4	946.3	951.8	950.4	947.7	931.8	896.0	844.2	778.9	711.8
30°	812.9	836.1	856.5	883.7	891.9	911.8	920.9	900.5	859.2	798.4	724.0
32.5°	674.1	707.7	752.2	767.1	793.0	831.5	874.6	882.3	856.5	809.8	731.7
35°	553.0	580.7	615.1	638.7	661.9	724.5	778.9	826.1	834.7	803.9	729.9
37.5°	457.7	477.2	507.6	527.6	548.9	602.4	678.7	739.9	783.0	783.9	724.9
40°	388.8	397.4	423.7	438.2	458.6	504.9	573.0	652.8	715.9	744.9	711.8
42.5°	329.3	340.7	362.5	373.4	386.5	426.9	471.8	547.6	625.6	687.7	687.3
45°	294.0	302.1	312.1	321.2	336.2	360.2	411.5	468.2	543.0	613.3	641.0
47.5°	262.7	270.4	280.4	283.1	293.1	315.7	347.0	396.5	466.4	536.2	588.4
50°	236.4	242.7	249.5	254.5	259.0	277.6	301.2	343.0	398.8	466.4	531.2
52.5°	215.9	220.5	226.4	229.1	233.2	246.8	264.9	295.8	341.6	403.3	466.4
55°	196.9	200.1	203.7	208.2	210.0	220.0	234.1	260.4	294.4	349.8	409.6
57.5°	179.2	180.6	182.8	185.5	187.8	196.4	208.7	226.4	256.3	299.0	355.7
60°	159.2	162.9	164.2	166.9	168.3	175.1	184.6	199.6	222.7	259.5	302.1
62.5°	142.4	144.7	147.0	148.3	151.5	153.8	161.5	175.1	194.2	221.4	259.9
65°	127.5	128.4	129.7	131.1	132.0	134.7	142.0	151.1	165.6	189.6	219.6
67.5°	110.2	111.1	113.0	113.4	114.3	117.9	122.0	129.7	142.0	160.1	184.6
70°	93.5	94.8	95.7	96.6	98.0	99.3	103.9	110.2	119.8	132.5	151.5
72.5°	78.9	80.3	80.3	81.2	80.7	82.6	87.1	91.6	98.0	108.4	125.2
75°	64.4	64.4	65.3	65.8	66.2	68.0	69.9	73.5	78.5	86.6	97.1
77.5°	50.8	50.4	51.3	51.3	51.3	52.6	54.4	56.3	59.4	65.3	73.5
80°	37.2	37.2	38.1	38.6	37.7	38.1	39.0	40.8	43.1	47.2	51.7
82.5°	24.5	26.3	25.9	26.3	25.9	26.8	27.2	27.7	28.6	30.4	33.6
85°	15.0	15.0	15.0	15.4	15.0	15.4	15.4	15.4	15.9	16.8	18.1
87.5°	6.4	6.4	6.4	6.8	6.4	6.4	6.8	6.4	6.8	6.8	7.3
90°	13.2	13.0	12.8	12.7	12.5	12.1	11.7	11.3	10.9	9.6	8.3
92.5°	15.2	15.1	15.0	15.0	14.6	13.9	13.2	12.5	11.8	10.9	10.0
95°	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.8	14.1	13.0	11.9
97.5°	18.4	18.3	18.2	18.2	17.8	17.0	16.1	15.3	14.5	19.7	24.8
100°	18.9	18.8	18.7	18.6	18.2	17.4	16.6	15.8	15.0	30.7	46.5
102.5°	19.1	18.9	18.7	18.6	20.3	23.6	26.9	30.3	33.6	51.2	68.7
105°	19.6	19.4	19.2	19.1	28.0	45.9	63.8	81.6	99.5	108.6	117.6
107.5°	73.6	86.9	100.1	106.7	114.5	130.0	145.6	161.1	176.7	175.2	173.7
110°	153.8	168.2	182.7	189.9	191.6	194.9	198.2	201.5	204.8	203.7	202.6

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	237.0	237.2	237.4	237.5	237.1	236.2	235.3	234.4	233.5	232.4	231.3
115°	266.3	265.9	265.5	265.3	264.8	263.8	262.7	261.7	260.7	259.8	258.9
117.5°	291.4	291.3	291.2	291.1	290.7	289.9	289.1	288.3	287.5	287.0	286.5
120°	317.0	317.0	317.0	317.0	316.6	315.8	315.0	314.2	313.4	313.1	312.8
122.5°	341.8	341.7	341.6	341.6	341.3	340.8	340.3	339.8	339.3	338.9	338.5
125°	364.8	364.6	364.4	364.3	364.2	364.0	363.8	363.6	363.4	363.0	362.6
127.5°	388.3	388.5	388.7	388.8	388.6	388.3	388.0	387.7	387.4	386.9	386.4
130°	410.1	410.3	410.5	410.6	410.4	410.0	409.6	409.2	408.8	408.4	408.0
132.5°	430.3	430.6	430.9	431.0	430.8	430.4	430.0	429.6	429.2	428.9	428.6
135°	450.7	451.0	451.3	451.5	451.3	451.0	450.7	450.4	450.1	449.7	449.3
137.5°	470.0	470.3	470.5	470.6	470.3	469.8	469.3	468.8	468.3	468.1	467.9
140°	487.3	487.5	487.7	487.8	487.6	487.2	486.8	486.4	486.0	485.7	485.4
142.5°	503.4	503.7	504.0	504.2	504.0	503.7	503.4	503.1	502.8	502.5	502.2
145°	519.2	519.2	519.2	519.2	519.1	518.9	518.6	518.4	518.2	518.0	517.8
147.5°	532.0	532.5	533.0	533.2	533.1	532.9	532.7	532.5	532.3	532.1	531.9
150°	545.2	545.5	545.8	546.0	545.9	545.7	545.4	545.2	545.0	544.8	544.6
152.5°	556.5	557.0	557.5	557.8	557.6	557.2	556.7	556.3	555.9	555.8	555.7
155°	566.7	567.3	567.9	568.2	567.9	567.4	566.9	566.4	565.9	565.8	565.7
157.5°	575.7	576.5	577.3	577.7	577.4	576.8	576.2	575.6	575.0	575.1	575.2
160°	583.7	584.4	585.1	585.5	585.2	584.6	583.9	583.3	582.7	582.8	582.9
162.5°	591.2	591.8	592.4	592.7	592.4	591.7	591.0	590.3	589.6	589.7	589.8
165°	597.3	598.0	598.7	599.1	598.7	597.9	597.1	596.3	595.5	595.6	595.7
167.5°	602.1	602.9	603.7	604.1	603.7	602.9	602.1	601.3	600.5	600.5	600.5
170°	606.1	607.0	607.8	608.2	607.8	607.0	606.1	605.3	604.5	604.5	604.5
172.5°	608.6	609.5	610.4	610.9	610.5	609.7	608.9	608.1	607.3	607.2	607.1
175°	610.7	611.5	612.3	612.7	612.3	611.6	610.9	610.2	609.5	609.4	609.3
177.5°	611.5	612.6	613.6	614.1	613.7	612.9	612.1	611.3	610.5	610.4	610.3
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	480.9	479.5	479.5	478.6	475.9	470.9	470.4	471.3	468.6	465.9	461.8
5°	504.5	495.8	493.1	490.4	485.0	475.9	472.2	469.1	464.1	458.2	451.8
7.5°	524.4	512.2	508.5	503.6	492.7	480.0	471.8	465.0	458.2	450.0	442.3
10°	549.4	531.7	523.1	515.8	500.8	483.1	470.9	460.9	450.0	440.0	430.1
12.5°	577.5	548.9	546.2	528.5	511.3	485.0	470.0	455.5	440.9	428.7	418.3
15°	601.1	569.8	558.4	546.6	513.5	480.9	466.4	450.0	433.2	420.1	404.7
17.5°	616.1	590.2	566.2	550.3	515.8	486.8	458.6	440.0	422.3	404.2	391.5
20°	634.2	596.5	575.7	554.4	520.3	482.2	454.1	431.0	409.2	392.9	377.4
22.5°	652.3	601.5	584.3	561.2	521.2	477.7	445.9	422.8	397.9	381.5	364.7
25°	650.5	608.8	580.2	560.7	512.2	473.6	436.4	409.2	386.1	365.2	348.4
27.5°	651.9	600.6	571.6	548.9	505.8	467.7	426.4	397.9	373.8	352.0	334.3
30°	652.3	588.4	563.0	535.8	494.0	453.6	415.1	386.1	360.7	337.1	321.2
32.5°	651.0	578.4	546.6	522.2	475.4	440.0	401.9	371.1	345.2	323.5	308.5
35°	647.8	566.6	529.9	499.0	456.4	420.5	389.7	357.9	330.3	310.3	293.1
37.5°	639.2	553.9	512.2	481.8	434.1	397.9	370.6	344.3	317.6	294.0	279.4
40°	632.8	536.7	494.5	461.4	410.1	374.7	352.0	327.1	300.8	279.4	265.4
42.5°	618.3	520.3	476.3	436.9	386.5	350.2	328.9	308.9	286.3	265.4	252.7
45°	594.7	502.6	454.1	414.2	360.7	326.2	306.7	290.3	270.4	250.4	237.7
47.5°	561.6	477.2	430.5	390.6	335.2	300.3	280.8	268.6	252.7	235.9	225.0
50°	525.8	449.6	406.5	367.0	310.7	276.7	257.7	246.3	235.9	220.5	210.0
52.5°	479.1	420.1	378.8	341.1	284.4	251.8	235.0	226.8	215.9	205.0	196.0
55°	433.7	382.0	347.9	312.1	258.6	228.2	211.9	203.2	196.9	187.8	180.6
57.5°	381.1	346.6	315.3	282.6	234.5	206.9	191.4	181.0	176.9	172.8	166.0
60°	332.5	306.2	280.8	253.6	209.6	184.6	169.7	161.5	157.4	154.7	150.2
62.5°	288.1	267.7	245.9	224.1	184.2	161.5	150.2	142.0	138.4	137.9	133.8
65°	245.4	230.9	213.2	191.9	160.6	140.6	129.7	124.8	120.7	120.7	117.5
67.5°	202.8	192.8	178.7	163.8	139.3	120.7	110.7	106.2	103.9	103.9	101.6
70°	168.8	162.0	149.3	136.1	114.8	100.7	93.0	88.9	87.6	88.0	86.2
72.5°	137.0	129.7	119.3	109.8	93.9	83.5	78.0	73.5	71.2	71.7	71.2
75°	106.2	102.5	93.5	86.2	73.5	66.2	61.2	59.0	57.2	57.6	56.7
77.5°	79.8	74.4	69.4	64.4	56.7	50.8	46.7	44.5	43.1	43.1	43.1
80°	54.4	53.5	49.4	46.7	40.4	35.8	32.7	32.2	30.8	30.8	30.8
82.5°	35.4	33.1	30.8	29.0	25.4	22.7	21.3	20.4	20.0	19.5	20.4
85°	19.5	18.1	17.2	15.4	14.1	12.7	11.3	10.9	10.4	10.9	10.4
87.5°	7.7	6.4	6.4	5.9	5.4	5.0	5.0	4.1	4.1	3.6	3.6
90°	7.0	5.7	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	9.1	8.2	7.7	8.0	8.6	9.2	9.8	10.4	9.8	9.2	8.6
95°	10.8	9.7	9.1	11.2	15.3	19.4	23.6	27.7	23.6	19.4	15.3
97.5°	30.0	35.1	37.7	39.1	41.9	44.8	47.6	50.4	47.6	44.8	41.9
100°	62.2	77.9	85.8	84.8	82.8	80.8	78.8	76.8	78.8	80.8	82.8
102.5°	86.3	103.8	112.6	111.9	110.6	109.3	108.0	106.7	108.0	109.3	110.6
105°	126.7	135.8	140.3	139.8	138.7	137.6	136.5	135.4	136.5	137.6	138.7
107.5°	172.2	170.7	169.9	169.4	168.5	167.6	166.7	165.8	166.7	167.6	168.5
110°	201.5	200.4	199.8	199.4	198.6	197.8	197.0	196.2	197.0	197.8	198.6

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	230.2	229.1	228.5	228.1	227.4	226.7	226.0	225.3	226.0	226.7	227.4
115°	258.0	257.1	256.6	256.3	255.7	255.1	254.5	253.9	254.5	255.1	255.7
117.5°	286.0	285.5	285.2	284.9	284.2	283.5	282.8	282.1	282.8	283.5	284.2
120°	312.5	312.2	312.0	311.6	310.7	309.8	308.9	308.0	308.9	309.8	310.7
122.5°	338.1	337.7	337.5	337.1	336.4	335.7	335.0	334.3	335.0	335.7	336.4
125°	362.1	361.7	361.5	361.1	360.3	359.5	358.7	357.9	358.7	359.5	360.3
127.5°	385.9	385.4	385.2	384.8	384.0	383.1	382.3	381.5	382.3	383.1	384.0
130°	407.6	407.2	407.0	406.6	405.8	404.9	404.1	403.3	404.1	404.9	405.8
132.5°	428.3	428.0	427.9	427.5	426.7	425.8	425.0	424.2	425.0	425.8	426.7
135°	448.9	448.5	448.3	448.0	447.4	446.8	446.2	445.6	446.2	446.8	447.4
137.5°	467.7	467.5	467.4	467.0	466.2	465.3	464.5	463.7	464.5	465.3	466.2
140°	485.1	484.8	484.6	484.3	483.7	483.1	482.5	481.9	482.5	483.1	483.7
142.5°	501.9	501.6	501.4	501.1	500.5	499.9	499.3	498.7	499.3	499.9	500.5
145°	517.6	517.4	517.3	517.0	516.3	515.6	514.9	514.2	514.9	515.6	516.3
147.5°	531.7	531.5	531.4	531.1	530.6	530.1	529.6	529.1	529.6	530.1	530.6
150°	544.4	544.2	544.1	544.0	543.7	543.4	543.1	542.8	543.1	543.4	543.7
152.5°	555.6	555.5	555.5	555.4	555.3	555.2	555.1	555.0	555.1	555.2	555.3
155°	565.6	565.5	565.5	565.6	565.8	566.0	566.2	566.4	566.2	566.0	565.8
157.5°	575.3	575.4	575.5	575.5	575.5	575.5	575.5	575.5	575.5	575.5	575.5
160°	583.0	583.1	583.2	583.3	583.4	583.5	583.6	583.7	583.6	583.5	583.4
162.5°	589.9	590.0	590.0	590.2	590.5	590.8	591.1	591.4	591.1	590.8	590.5
165°	595.8	595.9	595.9	596.1	596.4	596.7	597.0	597.3	597.0	596.7	596.4
167.5°	600.5	600.5	600.5	600.7	601.1	601.5	601.9	602.3	601.9	601.5	601.1
170°	604.5	604.5	604.5	604.7	605.1	605.6	606.0	606.4	606.0	605.6	605.1
172.5°	607.0	606.9	606.8	607.1	607.6	608.1	608.6	609.1	608.6	608.1	607.6
175°	609.2	609.1	609.1	609.4	609.9	610.4	610.9	611.4	610.9	610.4	609.9
177.5°	610.2	610.1	610.0	610.3	610.8	611.3	611.8	612.3	611.8	611.3	610.8
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	460.9	460.5	461.4	458.6	454.1	451.8	445.5	444.1	443.7	444.1	444.6
5°	448.2	447.8	446.4	441.9	436.4	432.3	424.6	424.2	421.4	418.7	420.1
7.5°	436.0	434.1	431.4	425.5	418.3	413.7	407.4	402.8	399.2	396.9	395.1
10°	423.7	421.0	418.3	410.6	401.5	394.7	387.0	383.3	379.3	377.4	375.6
12.5°	407.8	405.1	400.1	391.0	385.6	377.0	369.3	365.6	363.4	359.7	357.5
15°	395.1	389.7	387.0	377.4	366.1	365.2	351.1	350.2	345.7	345.7	342.1
17.5°	380.6	376.5	371.5	362.0	353.8	345.7	338.4	335.7	331.6	330.7	328.9
20°	366.5	361.1	359.3	349.8	341.1	331.2	323.5	320.7	318.9	317.1	318.5
22.5°	352.0	347.5	343.0	334.3	328.0	318.0	313.5	310.7	308.0	307.1	307.6
25°	338.0	333.9	329.3	320.7	313.9	305.8	301.7	300.3	299.0	299.0	298.5
27.5°	324.4	320.3	316.2	308.5	301.7	295.8	292.6	291.2	289.9	290.8	291.7
30°	310.3	306.7	303.0	296.2	290.8	285.3	283.5	282.6	282.2	284.4	284.4
32.5°	297.6	294.4	291.7	285.3	279.9	275.4	274.0	274.5	274.9	276.3	277.2
35°	284.4	282.2	279.4	274.0	269.5	265.4	265.8	265.8	266.7	269.0	270.8
37.5°	272.6	269.5	267.2	262.7	259.0	255.4	256.8	258.1	259.0	261.8	262.7
40°	258.6	257.2	255.4	250.9	247.7	247.2	247.7	248.6	250.4	251.8	253.1
42.5°	247.2	245.4	243.2	239.5	236.8	237.3	237.7	238.6	239.5	241.8	243.2
45°	234.5	233.2	231.4	228.2	225.9	226.4	226.8	226.8	227.7	230.5	231.4
47.5°	220.5	220.9	218.7	215.5	214.1	214.1	214.1	215.0	217.3	218.2	218.7
50°	206.9	206.0	205.5	202.3	201.4	201.0	201.4	201.9	205.0	204.6	206.0
52.5°	192.3	192.3	191.9	190.1	188.7	188.7	187.8	190.1	191.0	191.9	193.3
55°	178.3	176.9	176.5	175.6	173.7	173.3	174.2	176.9	177.8	178.7	180.1
57.5°	162.9	162.9	162.0	160.6	160.6	160.6	160.6	162.4	163.8	164.7	167.4
60°	148.8	147.0	145.6	145.6	145.6	145.2	147.9	147.9	150.6	151.1	152.0
62.5°	132.0	131.1	130.2	130.7	130.2	131.1	132.0	133.8	134.3	135.6	137.0
65°	116.1	116.1	115.2	117.9	116.1	116.1	118.4	118.4	119.3	120.7	122.5
67.5°	100.7	101.2	100.3	100.3	101.2	101.6	102.1	103.9	104.3	106.2	108.4
70°	84.8	85.7	86.2	85.3	86.2	87.1	88.0	88.5	90.3	91.2	92.5
72.5°	70.8	71.7	70.3	70.8	71.2	72.1	72.6	73.5	74.4	77.1	78.0
75°	56.7	56.3	55.8	57.6	56.7	58.5	59.0	59.0	59.9	62.1	63.1
77.5°	43.6	43.6	44.0	43.1	44.5	44.0	44.5	45.8	47.2	47.2	50.8
80°	30.4	31.3	31.3	31.3	31.8	32.2	31.3	33.6	34.0	34.0	35.4
82.5°	19.5	20.0	19.5	20.4	20.4	21.3	20.9	21.3	22.2	23.1	23.6
85°	10.4	10.4	11.3	11.3	10.9	11.3	10.9	11.3	12.2	12.2	12.7
87.5°	3.6	3.6	3.6	3.6	4.1	3.6	4.1	4.1	3.6	3.6	5.0
90°	4.5	5.0	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.1	12.5
92.5°	8.0	7.7	8.2	9.1	10.0	10.9	11.8	12.5	13.2	13.9	14.6
95°	11.2	9.1	9.7	10.8	11.9	13.0	14.1	14.8	15.5	16.2	16.9
97.5°	39.1	37.7	35.1	30.0	24.8	19.7	14.5	15.3	16.1	17.0	17.8
100°	84.8	85.8	77.9	62.2	46.5	30.7	15.0	15.8	16.6	17.4	18.2
102.5°	111.9	112.6	103.8	86.3	68.7	51.2	33.6	30.3	26.9	23.6	20.3
105°	139.8	140.3	135.8	126.7	117.6	108.6	99.5	81.6	63.8	45.9	28.0
107.5°	169.4	169.9	170.7	172.2	173.7	175.2	176.7	161.1	145.6	130.0	114.5
110°	199.4	199.8	200.4	201.5	202.6	203.7	204.8	201.5	198.2	194.9	191.6

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	228.1	228.5	229.1	230.2	231.3	232.4	233.5	234.4	235.3	236.2	237.1
115°	256.3	256.6	257.1	258.0	258.9	259.8	260.7	261.7	262.7	263.8	264.8
117.5°	284.9	285.2	285.5	286.0	286.5	287.0	287.5	288.3	289.1	289.9	290.7
120°	311.6	312.0	312.2	312.5	312.8	313.1	313.4	314.2	315.0	315.8	316.6
122.5°	337.1	337.5	337.7	338.1	338.5	338.9	339.3	339.8	340.3	340.8	341.3
125°	361.1	361.5	361.7	362.1	362.6	363.0	363.4	363.6	363.8	364.0	364.2
127.5°	384.8	385.2	385.4	385.9	386.4	386.9	387.4	387.7	388.0	388.3	388.6
130°	406.6	407.0	407.2	407.6	408.0	408.4	408.8	409.2	409.6	410.0	410.4
132.5°	427.5	427.9	428.0	428.3	428.6	428.9	429.2	429.6	430.0	430.4	430.8
135°	448.0	448.3	448.5	448.9	449.3	449.7	450.1	450.4	450.7	451.0	451.3
137.5°	467.0	467.4	467.5	467.7	467.9	468.1	468.3	468.8	469.3	469.8	470.3
140°	484.3	484.6	484.8	485.1	485.4	485.7	486.0	486.4	486.8	487.2	487.6
142.5°	501.1	501.4	501.6	501.9	502.2	502.5	502.8	503.1	503.4	503.7	504.0
145°	517.0	517.3	517.4	517.6	517.8	518.0	518.2	518.4	518.6	518.9	519.1
147.5°	531.1	531.4	531.5	531.7	531.9	532.1	532.3	532.5	532.7	532.9	533.1
150°	544.0	544.1	544.2	544.4	544.6	544.8	545.0	545.2	545.4	545.7	545.9
152.5°	555.4	555.5	555.5	555.6	555.7	555.8	555.9	556.3	556.7	557.2	557.6
155°	565.6	565.5	565.5	565.6	565.7	565.8	565.9	566.4	566.9	567.4	567.9
157.5°	575.5	575.5	575.4	575.3	575.2	575.1	575.0	575.6	576.2	576.8	577.4
160°	583.3	583.2	583.1	583.0	582.9	582.8	582.7	583.3	583.9	584.6	585.2
162.5°	590.2	590.0	590.0	589.9	589.8	589.7	589.6	590.3	591.0	591.7	592.4
165°	596.1	595.9	595.9	595.8	595.7	595.6	595.5	596.3	597.1	597.9	598.7
167.5°	600.7	600.5	600.5	600.5	600.5	600.5	600.5	601.3	602.1	602.9	603.7
170°	604.7	604.5	604.5	604.5	604.5	604.5	604.5	605.3	606.1	607.0	607.8
172.5°	607.1	606.8	606.9	607.0	607.1	607.2	607.3	608.1	608.9	609.7	610.5
175°	609.4	609.1	609.1	609.2	609.3	609.4	609.5	610.2	610.9	611.6	612.3
177.5°	610.3	610.0	610.1	610.2	610.3	610.4	610.5	611.3	612.1	612.9	613.7
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	444.1	444.6	442.8	441.4	445.0	442.8	442.8	443.2	442.3	443.7	443.2
5°	419.2	419.6	416.4	417.4	415.5	415.1	414.6	417.4	416.9	416.4	417.4
7.5°	394.7	394.7	393.3	392.4	392.4	391.0	392.9	392.4	393.3	393.3	394.7
10°	374.3	375.2	372.9	370.6	370.2	370.6	370.6	371.1	371.5	374.7	374.3
12.5°	357.5	356.1	355.7	354.3	352.0	351.1	350.2	355.2	353.8	353.8	353.8
15°	338.9	342.1	341.6	337.5	336.6	338.4	337.5	337.5	342.1	341.6	341.1
17.5°	328.9	328.0	327.1	324.8	325.3	324.8	325.3	325.3	328.0	328.0	328.0
20°	317.6	315.7	315.7	314.8	314.8	313.5	315.3	315.7	317.6	317.6	318.0
22.5°	307.6	306.2	306.2	305.8	306.7	304.9	306.7	307.1	307.1	308.5	308.5
25°	299.0	298.0	298.0	299.0	299.0	299.0	299.0	300.8	299.4	299.9	299.4
27.5°	291.2	291.7	292.2	292.6	292.2	292.6	293.1	294.0	294.4	294.0	293.1
30°	284.0	285.3	285.8	285.8	286.7	287.2	287.6	287.6	288.1	286.7	287.6
32.5°	278.5	278.5	279.4	279.9	280.8	281.3	281.3	282.2	281.7	280.4	280.8
35°	270.8	270.8	272.6	273.6	274.9	274.5	274.9	274.9	275.4	274.5	273.1
37.5°	263.1	264.0	264.0	265.8	266.3	266.7	266.3	267.2	266.7	265.8	265.4
40°	254.0	253.6	254.0	255.4	255.9	255.9	255.9	256.8	256.8	256.8	256.3
42.5°	242.7	244.1	243.6	245.0	244.5	244.5	245.4	246.3	246.8	245.4	245.9
45°	231.8	231.8	232.7	232.7	233.2	233.2	235.0	234.1	235.0	234.1	234.5
47.5°	220.0	220.5	220.5	220.9	221.8	222.7	221.8	222.3	222.3	222.7	221.8
50°	206.9	206.9	207.8	209.1	210.9	210.0	209.6	211.4	210.0	210.0	209.1
52.5°	193.3	194.6	195.1	196.4	197.8	198.2	198.7	197.8	198.2	196.9	197.3
55°	180.1	180.6	182.4	183.7	185.1	185.1	184.6	185.1	185.5	183.7	183.7
57.5°	166.9	168.3	170.1	170.1	171.9	171.9	171.5	171.5	171.9	170.6	170.1
60°	152.9	154.2	156.5	156.5	159.2	159.7	158.8	157.9	157.9	156.5	157.0
62.5°	137.9	139.3	140.6	142.9	144.7	143.8	145.6	143.8	144.3	141.5	141.5
65°	124.8	125.2	127.5	129.7	129.7	130.7	129.7	130.2	128.8	128.8	127.0
67.5°	109.3	109.3	111.6	113.9	116.1	116.1	116.1	114.8	114.8	113.4	113.4
70°	95.7	95.3	97.5	98.9	100.3	100.7	99.8	99.3	98.4	97.1	96.6
72.5°	78.9	79.8	82.1	83.0	85.3	84.8	87.1	84.4	84.4	82.1	81.7
75°	64.0	64.9	67.1	68.5	69.9	69.9	71.2	69.9	68.0	67.1	66.7
77.5°	50.8	50.4	52.2	54.4	54.9	54.4	55.3	54.9	53.1	53.1	52.2
80°	36.3	37.7	39.5	39.0	40.8	40.4	40.4	39.5	39.5	38.1	39.0
82.5°	24.0	25.4	25.9	25.4	25.9	26.8	27.2	26.8	26.8	25.9	26.3
85°	12.7	12.7	13.6	14.1	13.6	13.6	14.1	15.4	14.5	13.6	14.5
87.5°	4.1	3.6	3.6	4.1	3.6	3.6	4.1	4.1	4.5	4.5	4.5
90°	12.7	12.8	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.7
92.5°	15.0	15.0	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.0
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	18.2	18.2	18.3	18.4	18.5	18.6	18.5	18.4	18.3	18.2	18.2
100°	18.6	18.7	18.8	18.9	19.0	19.1	19.0	18.9	18.8	18.7	18.6
102.5°	18.6	18.7	18.9	19.1	19.3	19.5	19.3	19.1	18.9	18.7	18.6
105°	19.1	19.2	19.4	19.6	19.8	20.0	19.8	19.6	19.4	19.2	19.1
107.5°	106.7	100.1	86.9	73.6	60.4	47.2	60.4	73.6	86.9	100.1	106.7
110°	189.9	182.7	168.2	153.8	139.3	124.9	139.3	153.8	168.2	182.7	189.9

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	237.5	237.4	237.2	237.0	236.8	236.6	236.8	237.0	237.2	237.4	237.5
115°	265.3	265.5	265.9	266.3	266.7	267.1	266.7	266.3	265.9	265.5	265.3
117.5°	291.1	291.2	291.3	291.4	291.5	291.6	291.5	291.4	291.3	291.2	291.1
120°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
122.5°	341.6	341.6	341.7	341.8	341.9	342.0	341.9	341.8	341.7	341.6	341.6
125°	364.3	364.4	364.6	364.8	365.0	365.2	365.0	364.8	364.6	364.4	364.3
127.5°	388.8	388.7	388.5	388.3	388.1	387.9	388.1	388.3	388.5	388.7	388.8
130°	410.6	410.5	410.3	410.1	409.9	409.7	409.9	410.1	410.3	410.5	410.6
132.5°	431.0	430.9	430.6	430.3	430.0	429.7	430.0	430.3	430.6	430.9	431.0
135°	451.5	451.3	451.0	450.7	450.4	450.1	450.4	450.7	451.0	451.3	451.5
137.5°	470.6	470.5	470.3	470.0	469.8	469.6	469.8	470.0	470.3	470.5	470.6
140°	487.8	487.7	487.5	487.3	487.1	486.9	487.1	487.3	487.5	487.7	487.8
142.5°	504.2	504.0	503.7	503.4	503.1	502.8	503.1	503.4	503.7	504.0	504.2
145°	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2	519.2
147.5°	533.2	533.0	532.5	532.0	531.5	531.0	531.5	532.0	532.5	533.0	533.2
150°	546.0	545.8	545.5	545.2	544.9	544.6	544.9	545.2	545.5	545.8	546.0
152.5°	557.8	557.5	557.0	556.5	556.0	555.5	556.0	556.5	557.0	557.5	557.8
155°	568.2	567.9	567.3	566.7	566.1	565.5	566.1	566.7	567.3	567.9	568.2
157.5°	577.7	577.3	576.5	575.7	574.9	574.1	574.9	575.7	576.5	577.3	577.7
160°	585.5	585.1	584.4	583.7	583.0	582.3	583.0	583.7	584.4	585.1	585.5
162.5°	592.7	592.4	591.8	591.2	590.6	590.0	590.6	591.2	591.8	592.4	592.7
165°	599.1	598.7	598.0	597.3	596.6	595.9	596.6	597.3	598.0	598.7	599.1
167.5°	604.1	603.7	602.9	602.1	601.3	600.5	601.3	602.1	602.9	603.7	604.1
170°	608.2	607.8	607.0	606.1	605.3	604.5	605.3	606.1	607.0	607.8	608.2
172.5°	610.9	610.4	609.5	608.6	607.7	606.8	607.7	608.6	609.5	610.4	610.9
175°	612.7	612.3	611.5	610.7	609.9	609.1	609.9	610.7	611.5	612.3	612.7
177.5°	614.1	613.6	612.6	611.5	610.5	609.5	610.5	611.5	612.6	613.6	614.1
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2	468.2
2.5°	444.6	445.5	445.9	444.1	442.8	445.0	448.2	450.5	452.3	454.6	455.9
5°	418.3	421.4	421.4	422.3	423.7	426.0	431.9	436.0	439.6	442.3	444.6
7.5°	396.0	398.3	399.7	401.9	404.2	407.4	414.2	420.1	425.5	428.7	432.3
10°	376.1	377.9	380.2	381.5	385.6	390.1	398.8	403.7	410.1	415.1	419.6
12.5°	357.0	363.4	364.7	364.3	367.9	372.9	381.5	389.2	396.0	401.0	406.0
15°	343.4	345.7	348.4	347.9	355.7	357.0	364.3	373.4	382.4	385.6	390.1
17.5°	328.4	332.1	334.8	336.2	338.4	343.4	350.2	357.0	368.8	369.3	381.1
20°	316.6	320.3	322.1	323.9	325.3	331.2	337.1	344.8	354.3	359.3	365.6
22.5°	308.9	310.7	312.1	313.5	315.3	318.5	325.7	334.3	340.7	346.1	350.2
25°	299.9	301.7	303.5	304.4	305.8	307.6	313.0	319.8	328.9	332.5	336.6
27.5°	293.5	293.5	294.4	294.4	296.2	298.0	302.1	308.5	315.7	320.3	325.7
30°	286.7	286.3	286.7	286.3	285.8	288.5	292.2	297.6	302.6	308.0	311.7
32.5°	279.9	279.4	279.4	279.9	278.1	279.4	281.3	286.3	291.7	294.4	298.5
35°	272.6	271.7	271.7	271.7	270.8	269.9	271.7	276.3	279.9	283.5	286.7
37.5°	265.4	264.0	264.0	263.1	262.2	260.8	260.8	264.5	269.5	270.8	274.9
40°	255.4	255.4	254.5	254.0	253.1	252.2	250.9	254.0	258.6	259.9	263.1
42.5°	245.4	244.1	243.6	243.6	243.6	242.2	241.3	243.6	246.3	248.6	250.4
45°	234.1	233.2	233.6	233.2	232.3	231.8	231.4	232.3	235.4	236.4	238.6
47.5°	221.8	221.4	221.4	220.9	220.5	220.9	219.1	221.4	222.3	223.2	225.0
50°	209.1	208.7	208.2	207.8	207.8	208.2	207.8	207.8	209.6	210.5	212.3
52.5°	196.4	195.1	195.1	194.6	194.6	193.7	194.6	195.1	196.0	196.9	197.8
55°	182.8	182.8	181.5	181.5	180.6	180.6	181.0	180.6	182.4	183.3	183.3
57.5°	169.7	167.9	168.3	167.4	166.5	166.0	166.0	166.9	167.9	167.9	168.8
60°	155.6	153.8	153.3	151.5	152.4	151.1	151.5	151.5	153.3	152.4	153.3
62.5°	141.5	139.3	137.9	137.0	137.0	137.5	136.5	136.1	137.0	137.9	139.7
65°	126.6	125.2	123.8	122.5	122.5	122.0	122.9	121.6	121.1	121.6	122.5
67.5°	111.1	109.8	108.4	107.1	107.5	106.2	105.2	106.6	105.7	106.2	107.1
70°	96.2	95.3	92.5	91.6	91.2	91.6	91.2	90.3	91.6	91.2	91.6
72.5°	81.2	80.3	78.9	76.7	76.7	76.2	75.8	75.8	75.3	75.3	75.3
75°	66.7	64.9	63.5	63.1	62.1	61.7	61.2	60.3	60.8	61.2	60.3
77.5°	51.7	49.4	49.0	49.0	47.6	47.6	48.1	47.6	47.2	47.2	47.2
80°	38.1	36.3	36.3	35.4	34.5	34.5	34.5	34.5	34.0	33.6	34.0
82.5°	24.5	24.0	23.6	23.6	24.5	22.7	23.6	23.1	22.7	22.7	22.2
85°	13.6	14.1	13.6	14.1	13.2	13.6	13.6	13.6	13.2	13.6	12.7
87.5°	5.0	5.0	5.0	5.4	5.4	5.4	5.4	5.4	5.9	5.4	5.4
90°	12.5	12.1	11.7	11.3	10.9	9.6	8.3	7.0	5.7	5.0	4.5
92.5°	14.6	13.9	13.2	12.5	11.8	10.9	10.0	9.1	8.2	7.7	8.0
95°	16.9	16.2	15.5	14.8	14.1	13.0	11.9	10.8	9.7	9.1	11.2
97.5°	17.8	17.0	16.1	15.3	14.5	19.7	24.8	30.0	35.1	37.7	39.1
100°	18.2	17.4	16.6	15.8	15.0	30.7	46.5	62.2	77.9	85.8	84.8
102.5°	20.3	23.6	26.9	30.3	33.6	51.2	68.7	86.3	103.8	112.6	111.9
105°	28.0	45.9	63.8	81.6	99.5	108.6	117.6	126.7	135.8	140.3	139.8
107.5°	114.5	130.0	145.6	161.1	176.7	175.2	173.7	172.2	170.7	169.9	169.4
110°	191.6	194.9	198.2	201.5	204.8	203.7	202.6	201.5	200.4	199.8	199.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	237.1	236.2	235.3	234.4	233.5	232.4	231.3	230.2	229.1	228.5	228.1
115°	264.8	263.8	262.7	261.7	260.7	259.8	258.9	258.0	257.1	256.6	256.3
117.5°	290.7	289.9	289.1	288.3	287.5	287.0	286.5	286.0	285.5	285.2	284.9
120°	316.6	315.8	315.0	314.2	313.4	313.1	312.8	312.5	312.2	312.0	311.6
122.5°	341.3	340.8	340.3	339.8	339.3	338.9	338.5	338.1	337.7	337.5	337.1
125°	364.2	364.0	363.8	363.6	363.4	363.0	362.6	362.1	361.7	361.5	361.1
127.5°	388.6	388.3	388.0	387.7	387.4	386.9	386.4	385.9	385.4	385.2	384.8
130°	410.4	410.0	409.6	409.2	408.8	408.4	408.0	407.6	407.2	407.0	406.6
132.5°	430.8	430.4	430.0	429.6	429.2	428.9	428.6	428.3	428.0	427.9	427.5
135°	451.3	451.0	450.7	450.4	450.1	449.7	449.3	448.9	448.5	448.3	448.0
137.5°	470.3	469.8	469.3	468.8	468.3	468.1	467.9	467.7	467.5	467.4	467.0
140°	487.6	487.2	486.8	486.4	486.0	485.7	485.4	485.1	484.8	484.6	484.3
142.5°	504.0	503.7	503.4	503.1	502.8	502.5	502.2	501.9	501.6	501.4	501.1
145°	519.1	518.9	518.6	518.4	518.2	518.0	517.8	517.6	517.4	517.3	517.0
147.5°	533.1	532.9	532.7	532.5	532.3	532.1	531.9	531.7	531.5	531.4	531.1
150°	545.9	545.7	545.4	545.2	545.0	544.8	544.6	544.4	544.2	544.1	544.0
152.5°	557.6	557.2	556.7	556.3	555.9	555.8	555.7	555.6	555.5	555.5	555.4
155°	567.9	567.4	566.9	566.4	565.9	565.8	565.7	565.6	565.5	565.5	565.6
157.5°	577.4	576.8	576.2	575.6	575.0	575.1	575.2	575.3	575.4	575.5	575.5
160°	585.2	584.6	583.9	583.3	582.7	582.8	582.9	583.0	583.1	583.2	583.3
162.5°	592.4	591.7	591.0	590.3	589.6	589.7	589.8	589.9	590.0	590.0	590.2
165°	598.7	597.9	597.1	596.3	595.5	595.6	595.7	595.8	595.9	595.9	596.1
167.5°	603.7	602.9	602.1	601.3	600.5	600.5	600.5	600.5	600.5	600.5	600.7
170°	607.8	607.0	606.1	605.3	604.5	604.5	604.5	604.5	604.5	604.5	604.7
172.5°	610.5	609.7	608.9	608.1	607.3	607.2	607.1	607.0	606.9	606.8	607.1
175°	612.3	611.6	610.9	610.2	609.5	609.4	609.3	609.2	609.1	609.1	609.4
177.5°	613.7	612.9	612.1	611.3	610.5	610.4	610.3	610.2	610.1	610.0	610.3
180°	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4	611.4

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	468.2	468.2	468.2	468.2
2.5°	458.2	459.5	464.1	469.5
5°	449.1	452.7	459.1	467.7
7.5°	439.1	444.6	453.6	464.5
10°	427.8	435.5	446.8	460.5
12.5°	415.5	425.5	440.0	454.1
15°	407.8	417.8	431.0	446.4
17.5°	392.9	404.7	418.3	440.0
20°	377.4	390.6	408.3	430.1
22.5°	365.6	379.7	396.5	419.6
25°	351.6	366.1	384.2	408.3
27.5°	336.6	351.1	371.5	396.9
30°	325.3	339.3	358.8	386.1
32.5°	311.7	325.3	345.7	374.3
35°	296.2	311.7	331.2	360.2
37.5°	284.4	298.5	318.9	346.6
40°	271.7	284.0	303.9	331.2
42.5°	258.1	271.7	289.0	316.2
45°	245.4	255.4	273.1	299.0
47.5°	231.8	243.2	256.8	276.7
50°	217.3	226.8	241.8	255.4
52.5°	203.2	210.9	223.6	234.1
55°	188.3	196.0	205.5	211.9
57.5°	174.2	179.6	186.0	190.1
60°	157.0	162.4	166.5	170.6
62.5°	141.5	145.6	147.9	150.2
65°	125.7	127.9	129.3	131.1
67.5°	108.4	110.7	111.1	113.9
70°	92.5	93.0	93.9	95.3
72.5°	77.6	78.5	78.0	78.9
75°	62.1	63.1	62.1	63.1
77.5°	47.2	48.1	48.1	49.4
80°	34.0	34.5	34.9	34.9
82.5°	22.2	23.6	22.7	23.1
85°	12.7	13.2	13.2	13.6
87.5°	5.9	6.4	5.9	6.8
90°	3.5	2.5	1.5	0.5
92.5°	8.6	9.2	9.8	10.4
95°	15.3	19.4	23.6	27.7
97.5°	41.9	44.8	47.6	50.4
100°	82.8	80.8	78.8	76.8
102.5°	110.6	109.3	108.0	106.7
105°	138.7	137.6	136.5	135.4
107.5°	168.5	167.6	166.7	165.8
110°	198.6	197.8	197.0	196.2

TEST NUMBER: P1031642

CATALOG NUMBER: S123DIW-B340D460UB30-4F0-XX-W2A-A

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	227.4	226.7	226.0	225.3
115°	255.7	255.1	254.5	253.9
117.5°	284.2	283.5	282.8	282.1
120°	310.7	309.8	308.9	308.0
122.5°	336.4	335.7	335.0	334.3
125°	360.3	359.5	358.7	357.9
127.5°	384.0	383.1	382.3	381.5
130°	405.8	404.9	404.1	403.3
132.5°	426.7	425.8	425.0	424.2
135°	447.4	446.8	446.2	445.6
137.5°	466.2	465.3	464.5	463.7
140°	483.7	483.1	482.5	481.9
142.5°	500.5	499.9	499.3	498.7
145°	516.3	515.6	514.9	514.2
147.5°	530.6	530.1	529.6	529.1
150°	543.7	543.4	543.1	542.8
152.5°	555.3	555.2	555.1	555.0
155°	565.8	566.0	566.2	566.4
157.5°	575.5	575.5	575.5	575.5
160°	583.4	583.5	583.6	583.7
162.5°	590.5	590.8	591.1	591.4
165°	596.4	596.7	597.0	597.3
167.5°	601.1	601.5	601.9	602.3
170°	605.1	605.6	606.0	606.4
172.5°	607.6	608.1	608.6	609.1
175°	609.9	610.4	610.9	611.4
177.5°	610.8	611.3	611.8	612.3
180°	611.4	611.4	611.4	611.4

(END OF REPORT)