

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: P1031661

Luminaire Tested: S123DIW-B340D460UB50-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031661
REPORT IS A COMBINATION OF REPORTS P991435 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B340D460UB50-4F0-XX-W2A-A1
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

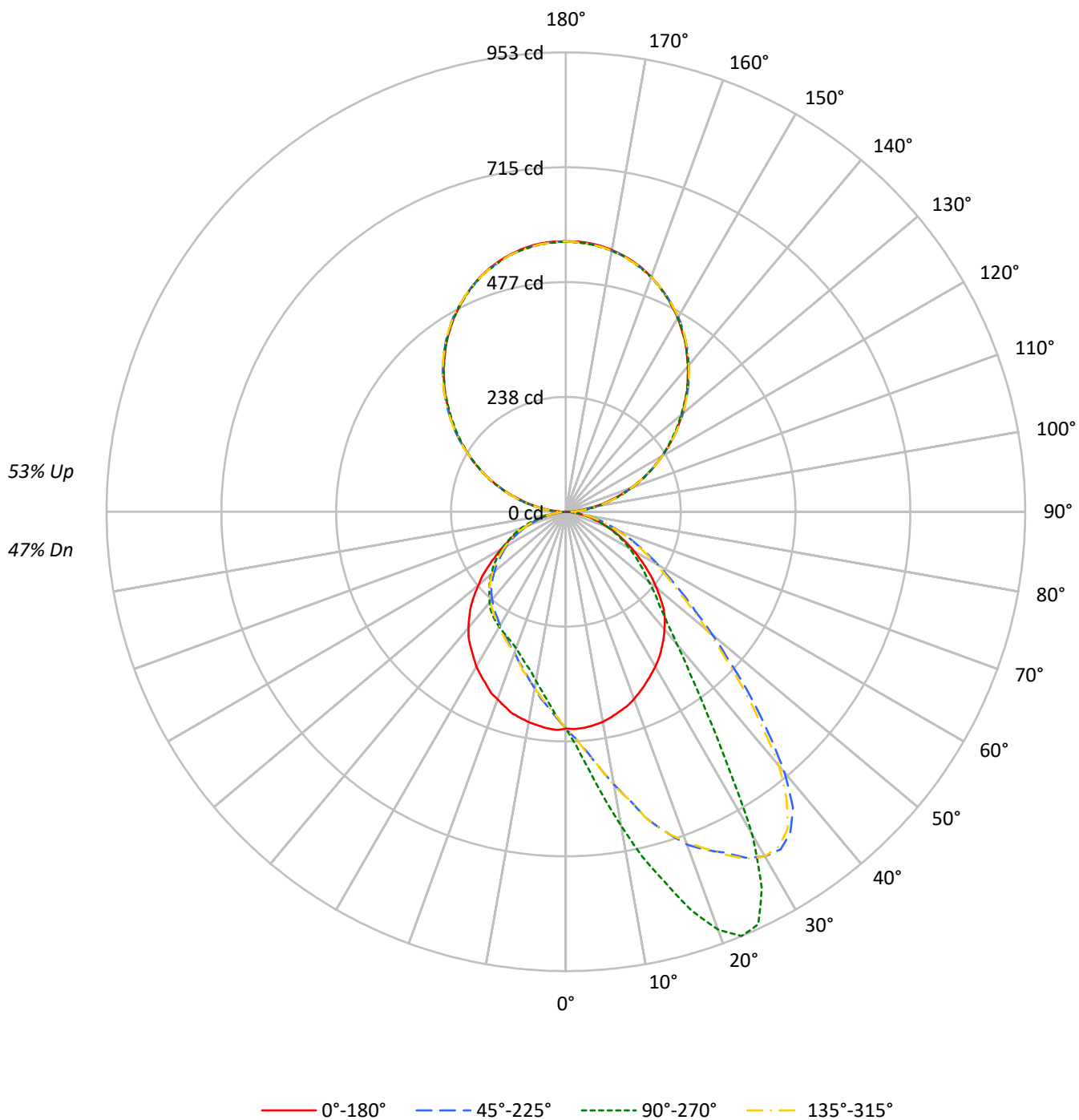
Lumens per Lamp: N/A
Luminaire Lumens: 2913.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47		
1	97	93	89	86	89	86	82	80	72	70	67	59	57	56	47	46	45	40		
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	42	40	39	34		
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29		
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	33	31	29	25		
5	68	57	49	43	62	53	46	40	45	39	35	37	33	30	30	27	25	22		
6	63	51	43	37	58	47	40	35	40	35	31	34	29	26	27	24	22	19		
7	58	46	38	33	53	43	36	31	36	31	27	31	26	23	25	22	20	17		
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	18	15		
9	50	38	31	26	46	35	29	24	30	25	21	26	22	19	21	18	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 7810 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	1.5
10°-20°	142.1	4.9
20°-30°	239.1	8.2
30°-40°	270.3	9.3
40°-50°	242.1	8.3
50°-60°	195.4	6.7
60°-70°	136.2	4.7
70°-80°	71.5	2.5
80°-90°	18.3	0.6
90°-100°	36.1	1.2
100°-110°	109.3	3.8
110°-120°	186.0	6.4
120°-130°	244.7	8.4
130°-140°	275.1	9.4
140°-150°	270.4	9.3
150°-160°	227.7	7.8
160°-170°	151.6	5.2
170°-180°	53.1	1.8
0°-30°	425.5	14.6
0°-40°	695.8	23.9
0°-60°	1133.2	38.9
0°-90°	1359.2	46.7
90°-120°	331.4	11.4
90°-150°	1121.5	38.5
90°-180°	1554.0	53.3
0°-180°	2913.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	450	450	450	450	450	
5°	450	534	451	399	450	43
15°	429	796	432	325	429	121
25°	392	944	393	287	392	181
35°	346	509	344	264	346	217
45°	287	275	279	224	287	220
55°	204	187	195	178	204	182
65°	126	121	120	126	126	125
75°	61	62	57	67	61	65
85°	13	14	10	13	13	15
90°	0	13	0	13	0	3
95°	26	34	26	34	26	29
105°	99	105	99	105	99	106
115°	187	188	187	188	187	185
125°	274	271	274	271	274	244
135°	356	355	356	355	356	274
145°	431	431	431	431	431	269
155°	494	493	494	493	494	227
165°	538	536	538	536	538	152
175°	560	557	560	557	560	53
180°	561	561	561	561	561	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	451.3	454.7	456.5	459.1	461.7	465.6	466.9	469.1	468.3	470.0	470.9
5°	449.5	455.6	460.8	467.4	473.5	477.8	482.2	489.2	494.4	495.3	499.2
7.5°	446.5	455.2	464.3	473.5	485.3	492.2	500.1	509.7	517.5	530.2	535.0
10°	442.5	454.7	467.8	480.5	496.6	507.5	517.1	533.2	549.3	562.4	574.6
12.5°	436.4	451.7	468.7	487.4	508.4	521.0	534.1	555.5	579.9	599.9	613.0
15°	429.0	448.2	470.0	490.1	513.2	536.7	550.7	574.6	609.5	628.3	661.8
17.5°	422.9	442.5	464.3	495.7	527.1	550.7	560.7	604.7	628.7	660.1	698.0
20°	413.3	438.2	466.1	497.5	538.0	552.4	572.9	617.4	647.0	688.0	734.6
22.5°	403.3	429.9	463.5	496.2	541.5	556.8	584.7	620.0	667.1	707.6	759.1
25°	392.4	421.2	455.2	494.0	538.4	560.7	586.8	630.4	681.5	732.5	780.0
27.5°	381.5	412.9	448.2	487.0	530.2	556.3	582.5	627.8	693.2	748.6	809.2
30°	371.0	402.4	437.7	477.4	522.8	548.0	572.9	629.6	702.4	764.7	825.8
32.5°	359.7	392.0	429.0	462.2	507.9	535.0	562.9	629.6	708.0	774.3	830.1
35°	346.2	379.3	411.1	444.3	489.6	519.7	551.1	625.2	713.3	777.4	811.8
37.5°	333.1	362.3	389.8	422.0	469.6	501.8	538.0	620.0	710.7	764.3	773.9
40°	318.3	347.5	369.7	399.8	449.9	487.4	524.1	613.0	699.3	733.3	705.4
42.5°	303.9	327.0	346.2	375.4	429.9	466.5	506.2	600.4	677.1	684.1	621.3
45°	287.3	303.9	320.9	354.0	408.1	445.6	489.6	582.0	641.3	621.3	541.9
47.5°	266.0	280.8	299.5	330.0	385.0	423.8	465.6	558.5	589.5	547.6	460.8
50°	245.5	258.1	275.5	305.2	360.6	398.5	443.0	521.4	536.7	470.9	397.2
52.5°	225.0	234.6	251.6	281.2	336.6	373.2	413.8	483.5	474.8	404.2	338.8
55°	203.6	211.9	228.0	257.2	308.7	343.6	382.4	436.9	414.2	347.0	294.7
57.5°	182.7	191.4	208.0	232.4	280.8	314.8	345.7	388.5	354.5	300.8	254.6
60°	163.9	171.3	184.0	208.0	252.0	279.5	307.8	337.0	308.7	256.8	221.5
62.5°	144.3	151.3	163.1	184.9	222.8	247.2	269.9	293.9	262.5	224.5	193.1
65°	126.0	131.7	142.6	162.6	193.6	213.6	231.9	248.5	223.2	188.3	164.8
67.5°	109.4	114.2	123.4	141.3	167.4	181.8	196.6	210.6	189.2	161.3	141.3
70°	91.6	95.5	103.8	116.8	137.8	152.6	163.5	174.0	154.8	132.5	119.0
72.5°	75.9	79.8	85.0	98.5	112.9	122.1	133.8	139.5	128.6	110.3	96.8
75°	60.6	63.7	68.5	77.2	90.7	96.8	104.2	108.6	98.5	86.3	78.0
77.5°	47.5	48.8	52.3	58.4	67.6	74.6	80.2	82.8	75.9	68.0	61.0
80°	33.6	35.3	37.9	43.2	50.1	52.3	55.8	58.9	54.5	47.5	43.2
82.5°	22.2	24.4	25.7	27.9	32.3	34.9	35.8	38.4	34.4	31.8	30.1
85°	13.1	14.0	14.4	15.7	17.9	19.2	20.5	20.9	20.1	19.6	17.9
87.5°	6.5	6.5	6.5	7.4	7.8	8.7	9.2	9.2	9.2	8.7	8.3
90°	0.4	1.4	2.4	3.3	4.3	4.8	5.4	6.7	8.0	9.3	10.6
92.5°	13.2	13.8	14.4	15.0	15.6	15.9	16.2	16.8	17.3	17.9	18.5
95°	26.0	26.7	27.4	28.1	28.8	29.1	29.5	30.3	31.0	31.8	32.6
97.5°	42.7	43.2	43.7	44.2	44.7	44.9	45.2	45.8	46.4	47.0	47.6
100°	59.9	60.5	61.1	61.7	62.3	62.6	62.8	63.3	63.8	64.3	64.8
102.5°	79.7	80.0	80.3	80.6	80.9	81.1	81.4	82.1	82.8	83.4	84.1
105°	99.1	99.3	99.5	99.7	99.9	100.0	100.4	101.3	102.2	103.1	104.0
107.5°	122.0	122.1	122.2	122.3	122.4	122.5	122.7	123.1	123.4	123.8	124.2
110°	143.2	143.4	143.6	143.7	143.9	144.0	144.1	144.3	144.5	144.7	144.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	165.2	165.3	165.4	165.5	165.6	165.6	165.6	165.6	165.6	165.6	165.6
115°	187.2	187.5	187.8	188.1	188.4	188.5	188.4	188.2	188.1	187.9	187.7
117.5°	209.7	209.8	209.9	210.0	210.1	210.1	210.0	209.8	209.6	209.4	209.2
120°	230.4	231.0	231.6	232.1	232.7	233.0	232.8	232.3	231.8	231.3	230.8
122.5°	252.0	252.4	252.8	253.1	253.5	253.7	253.6	253.4	253.3	253.1	252.9
125°	274.0	274.3	274.6	274.9	275.2	275.3	275.2	275.0	274.8	274.6	274.4
127.5°	294.3	294.9	295.5	296.0	296.6	296.9	296.8	296.6	296.4	296.2	296.0
130°	314.5	315.3	316.1	316.9	317.7	318.1	317.9	317.6	317.3	317.0	316.7
132.5°	334.8	335.6	336.4	337.1	337.9	338.3	338.2	338.0	337.8	337.6	337.4
135°	355.5	356.1	356.7	357.2	357.8	358.1	358.1	358.0	357.9	357.8	357.7
137.5°	374.4	374.9	375.4	375.9	376.4	376.6	376.8	377.1	377.4	377.7	378.0
140°	394.3	394.8	395.3	395.8	396.3	396.5	396.5	396.6	396.7	396.8	396.9
142.5°	412.3	412.8	413.3	413.8	414.3	414.5	414.6	414.8	415.0	415.2	415.4
145°	431.3	431.5	431.7	431.8	432.0	432.1	432.3	432.6	432.9	433.2	433.5
147.5°	447.6	448.0	448.4	448.7	449.1	449.3	449.4	449.7	450.0	450.3	450.6
150°	464.7	464.9	465.1	465.3	465.5	465.6	465.7	465.9	466.1	466.3	466.5
152.5°	478.8	479.1	479.4	479.7	480.0	480.2	480.2	480.3	480.4	480.5	480.6
155°	493.8	493.8	493.8	493.8	493.8	493.8	493.9	494.0	494.1	494.2	494.3
157.5°	506.6	506.5	506.4	506.3	506.2	506.2	506.2	506.3	506.4	506.5	506.6
160°	518.5	518.3	518.1	517.9	517.7	517.6	517.6	517.6	517.6	517.6	517.6
162.5°	529.1	528.8	528.5	528.2	527.9	527.7	527.8	527.9	528.0	528.1	528.2
165°	537.9	537.6	537.3	537.0	536.7	536.5	536.5	536.5	536.5	536.5	536.5
167.5°	545.4	545.0	544.6	544.2	543.8	543.6	543.6	543.7	543.8	543.9	544.0
170°	551.5	551.1	550.7	550.4	550.0	549.8	549.8	549.8	549.8	549.8	549.8
172.5°	556.4	556.0	555.6	555.2	554.8	554.6	554.6	554.6	554.6	554.6	554.6
175°	559.5	559.1	558.7	558.3	557.9	557.7	557.7	557.7	557.7	557.7	557.7
177.5°	561.2	560.8	560.4	560.1	559.7	559.5	559.5	559.5	559.5	559.5	559.5
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	473.9	474.8	477.8	480.0	484.4	484.0	484.0	483.5	482.2	484.4	485.7
5°	507.1	514.5	515.3	524.9	525.4	529.3	531.9	529.7	535.0	534.5	530.6
7.5°	548.0	558.1	562.9	572.0	582.5	579.9	589.9	591.6	590.8	595.1	598.2
10°	592.9	610.4	622.6	639.6	644.0	646.6	653.1	658.8	670.1	661.4	667.1
12.5°	644.4	657.0	673.2	700.2	713.7	722.4	725.5	729.4	737.3	732.5	732.9
15°	687.6	704.6	732.0	765.6	769.5	780.4	777.8	801.4	812.7	795.7	805.3
17.5°	732.5	755.1	787.8	817.0	833.6	841.0	848.0	870.7	869.8	867.2	869.4
20°	761.2	798.3	838.8	877.7	882.4	888.1	906.9	916.5	914.7	922.1	926.9
22.5°	801.8	841.0	884.2	909.9	920.8	927.4	942.2	948.3	950.9	952.6	949.6
25°	835.8	877.7	909.5	932.1	938.7	942.2	947.0	948.7	947.4	944.4	947.0
27.5°	858.9	892.5	914.3	924.7	921.2	915.6	906.4	900.3	886.8	880.3	888.1
30°	868.5	883.3	889.9	872.4	855.0	841.0	823.6	791.3	766.0	773.4	763.4
32.5°	853.2	843.6	812.3	767.3	753.8	731.2	681.9	644.0	645.3	625.2	633.5
35°	808.3	764.7	705.4	637.4	619.5	607.3	553.3	545.0	527.5	508.8	514.0
37.5°	729.0	665.3	593.4	543.2	516.6	490.1	459.5	441.2	430.8	422.9	429.0
40°	632.2	554.6	495.3	450.4	427.7	410.7	389.8	371.5	359.7	358.4	360.6
42.5°	537.1	471.7	417.2	374.5	367.1	347.0	333.5	319.1	315.7	310.0	313.0
45°	454.7	401.5	356.6	321.8	313.0	307.8	291.2	282.1	278.2	274.7	279.9
47.5°	395.0	339.2	306.5	285.6	276.9	268.1	259.0	252.9	249.8	250.3	249.8
50°	337.5	296.5	267.7	251.6	246.3	240.2	232.8	228.9	227.6	223.7	226.7
52.5°	290.4	260.7	240.7	225.4	221.5	217.1	211.0	208.8	205.8	204.9	204.9
55°	252.4	229.3	213.2	203.2	198.4	194.9	191.4	188.8	186.6	186.6	186.6
57.5°	222.8	202.7	191.0	182.2	180.5	177.0	173.1	173.1	170.0	169.6	170.9
60°	197.5	179.6	170.5	163.1	160.4	159.6	155.6	155.6	154.8	152.6	154.3
62.5°	171.8	158.7	150.9	145.2	142.6	142.6	139.5	137.3	137.3	137.8	136.9
65°	148.2	138.6	131.7	127.3	126.0	124.3	123.8	122.1	120.8	121.2	120.8
67.5°	127.3	119.9	115.1	111.6	109.4	108.6	107.3	107.3	106.4	106.8	104.6
70°	108.6	101.1	97.2	93.7	92.9	92.9	91.1	91.6	90.7	92.0	91.1
72.5°	89.4	83.7	80.7	79.4	78.5	78.0	77.2	76.3	75.9	76.7	76.3
75°	72.4	67.6	65.4	64.5	63.7	63.7	63.2	62.8	62.3	62.3	62.3
77.5°	56.2	53.2	50.6	51.4	50.1	50.6	49.3	49.3	49.7	49.3	49.3
80°	41.4	39.2	39.2	38.4	36.6	37.5	37.5	36.2	35.8	36.6	35.3
82.5°	27.5	27.0	26.2	25.7	24.9	25.3	24.9	24.4	24.0	24.9	24.0
85°	16.1	16.1	15.7	14.8	15.7	15.3	14.8	14.8	14.4	14.4	14.4
87.5°	8.3	7.4	7.4	7.0	7.4	6.5	7.0	6.5	6.1	6.5	6.1
90°	11.0	11.4	11.7	12.1	12.3	12.4	12.6	12.8	13.0	13.2	13.0
92.5°	18.8	19.1	19.4	19.7	19.8	19.7	19.5	19.3	19.1	18.9	19.1
95°	33.0	33.4	33.8	34.2	34.4	34.4	34.4	34.4	34.4	34.4	34.4
97.5°	48.1	48.6	49.1	49.6	49.8	49.7	49.6	49.5	49.4	49.3	49.4
100°	65.1	65.4	65.7	66.0	66.1	66.2	66.4	66.6	66.8	67.0	66.8
102.5°	84.4	84.7	85.0	85.3	85.5	85.4	85.3	85.2	85.1	85.0	85.1
105°	104.0	104.0	104.0	104.0	104.0	104.1	104.3	104.4	104.6	104.8	104.6
107.5°	124.5	124.8	125.1	125.4	125.5	125.5	125.4	125.3	125.2	125.1	125.2
110°	145.3	145.7	146.1	146.5	146.7	146.6	146.4	146.2	146.0	145.8	146.0

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	166.1	166.6	167.1	167.6	167.8	167.8	167.8	167.8	167.8	167.8	167.8
115°	187.8	187.9	188.0	188.1	188.1	188.1	188.0	187.9	187.8	187.7	187.8
117.5°	209.2	209.2	209.2	209.2	209.2	209.1	208.8	208.5	208.2	207.9	208.2
120°	230.7	230.6	230.5	230.4	230.4	230.3	230.1	229.9	229.7	229.5	229.7
122.5°	252.6	252.3	252.0	251.7	251.5	251.4	251.1	250.8	250.5	250.2	250.5
125°	274.0	273.6	273.3	272.9	272.7	272.5	272.1	271.7	271.3	270.9	271.3
127.5°	295.4	294.8	294.3	293.7	293.4	293.2	292.8	292.4	292.0	291.6	292.0
130°	316.3	315.9	315.6	315.2	315.0	314.7	314.0	313.3	312.6	311.9	312.6
132.5°	336.9	336.4	335.9	335.4	335.2	335.0	334.5	334.0	333.5	333.0	333.5
135°	357.3	356.9	356.5	356.1	355.9	355.8	355.6	355.5	355.3	355.1	355.3
137.5°	377.5	377.0	376.5	376.0	375.8	375.6	375.3	375.0	374.7	374.4	374.7
140°	396.8	396.7	396.6	396.5	396.5	396.2	395.5	394.8	394.1	393.4	394.1
142.5°	415.3	415.2	415.1	415.0	415.0	414.8	414.3	413.8	413.3	412.8	413.3
145°	433.4	433.3	433.2	433.1	433.0	432.8	432.4	432.1	431.7	431.3	431.7
147.5°	450.6	450.6	450.6	450.6	450.6	450.3	449.7	449.2	448.6	448.0	448.6
150°	466.5	466.5	466.5	466.5	466.5	466.2	465.6	465.1	464.5	463.9	464.5
152.5°	480.8	481.0	481.2	481.4	481.5	481.3	480.8	480.3	479.8	479.3	479.8
155°	494.7	495.1	495.4	495.8	496.0	495.7	495.0	494.3	493.6	492.9	493.6
157.5°	507.0	507.4	507.8	508.2	508.4	508.1	507.5	506.9	506.3	505.7	506.3
160°	518.1	518.6	519.1	519.6	519.8	519.6	519.2	518.8	518.4	518.0	518.4
162.5°	528.7	529.2	529.7	530.2	530.4	530.1	529.4	528.7	528.0	527.3	528.0
165°	537.1	537.7	538.3	538.9	539.2	538.9	538.2	537.5	536.8	536.1	536.8
167.5°	544.6	545.2	545.8	546.4	546.7	546.4	545.8	545.2	544.6	544.0	544.6
170°	550.5	551.1	551.8	552.5	552.8	552.5	551.8	551.1	550.5	549.8	550.5
172.5°	555.2	555.8	556.4	557.0	557.3	557.0	556.3	555.6	554.9	554.2	554.9
175°	558.3	558.9	559.4	560.0	560.3	560.0	559.3	558.6	558.0	557.3	558.0
177.5°	560.1	560.7	561.2	561.8	562.1	561.8	561.1	560.4	559.7	559.0	559.7
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	482.2	483.5	480.0	479.2	479.2	480.9	479.6	467.8	470.0	467.4	466.5
5°	535.4	532.8	529.3	527.5	525.4	519.3	518.8	505.3	502.7	494.0	490.1
7.5°	593.8	591.6	581.2	579.9	579.0	573.3	558.9	544.6	534.1	524.1	514.5
10°	660.5	654.0	649.2	639.6	634.8	627.0	608.2	594.7	576.8	561.6	541.5
12.5°	740.7	733.3	717.2	710.2	704.1	682.3	663.6	648.3	613.4	603.0	578.1
15°	799.6	783.9	782.2	766.9	766.0	742.1	706.3	689.7	662.7	624.3	598.6
17.5°	863.3	849.3	838.4	820.1	817.5	794.8	768.7	728.1	698.5	661.8	629.1
20°	909.9	902.5	883.8	876.3	861.1	841.9	814.9	764.7	728.5	691.9	651.8
22.5°	947.0	939.6	924.7	914.7	906.0	881.1	848.9	806.1	756.4	708.5	667.1
25°	946.5	944.4	938.3	933.5	926.9	908.6	881.6	840.6	785.2	732.5	674.9
27.5°	892.9	899.0	909.5	914.7	913.4	910.8	895.5	861.1	811.4	748.6	684.1
30°	781.3	803.5	823.2	849.3	857.2	876.3	885.1	865.4	825.8	767.3	695.8
32.5°	647.9	680.1	722.9	737.3	762.1	799.2	840.6	848.0	823.2	778.2	703.3
35°	531.5	558.1	591.2	613.9	636.1	696.3	748.6	793.9	802.2	772.6	701.5
37.5°	439.9	458.7	487.9	507.1	527.5	579.0	652.2	711.1	752.5	753.4	696.7
40°	373.6	381.9	407.2	421.2	440.8	485.3	550.7	627.4	688.0	715.9	684.1
42.5°	316.5	327.4	348.4	358.8	371.5	410.3	453.4	526.2	601.2	661.0	660.5
45°	282.5	290.4	300.0	308.7	323.1	346.2	395.4	449.9	521.9	589.5	616.1
47.5°	252.4	259.9	269.4	272.1	281.7	303.4	333.5	381.1	448.2	515.3	565.5
50°	227.2	233.3	239.8	244.6	249.0	266.8	289.5	329.6	383.2	448.2	510.5
52.5°	207.5	211.9	217.6	220.2	224.1	237.2	254.6	284.3	328.3	387.6	448.2
55°	189.2	192.3	195.8	200.1	201.9	211.5	225.0	250.3	283.0	336.1	393.7
57.5°	172.2	173.5	175.7	178.3	180.5	188.8	200.6	217.6	246.3	287.3	341.8
60°	153.0	156.5	157.8	160.4	161.8	168.3	177.4	191.8	214.1	249.4	290.4
62.5°	136.9	139.1	141.3	142.6	145.6	147.8	155.2	168.3	186.6	212.8	249.8
65°	122.5	123.4	124.7	126.0	126.9	129.5	136.5	145.2	159.1	182.2	211.0
67.5°	105.9	106.8	108.6	109.0	109.9	113.4	117.3	124.7	136.5	153.9	177.4
70°	89.8	91.1	92.0	92.9	94.2	95.5	99.8	105.9	115.1	127.3	145.6
72.5°	75.9	77.2	77.2	78.0	77.6	79.4	83.7	88.1	94.2	104.2	120.3
75°	61.9	61.9	62.8	63.2	63.7	65.4	67.1	70.6	75.4	83.3	93.3
77.5°	48.8	48.4	49.3	49.3	49.3	50.6	52.3	54.1	57.1	62.8	70.6
80°	35.8	35.8	36.6	37.1	36.2	36.6	37.5	39.2	41.4	45.3	49.7
82.5°	23.5	25.3	24.9	25.3	24.9	25.7	26.2	26.6	27.5	29.2	32.3
85°	14.4	14.4	14.4	14.8	14.4	14.8	14.8	14.8	15.3	16.1	17.4
87.5°	6.1	6.1	6.1	6.5	6.1	6.1	6.5	6.1	6.5	6.5	7.0
90°	12.8	12.6	12.4	12.3	12.1	11.7	11.4	11.0	10.6	9.3	8.0
92.5°	19.3	19.5	19.7	19.8	19.7	19.4	19.1	18.8	18.5	17.9	17.3
95°	34.4	34.4	34.4	34.4	34.2	33.8	33.4	33.0	32.6	31.8	31.0
97.5°	49.5	49.6	49.7	49.8	49.6	49.1	48.6	48.1	47.6	47.0	46.4
100°	66.6	66.4	66.2	66.1	66.0	65.7	65.4	65.1	64.8	64.3	63.8
102.5°	85.2	85.3	85.4	85.5	85.3	85.0	84.7	84.4	84.1	83.4	82.8
105°	104.4	104.3	104.1	104.0	104.0	104.0	104.0	104.0	104.0	103.1	102.2
107.5°	125.3	125.4	125.5	125.5	125.4	125.1	124.8	124.5	124.2	123.8	123.4
110°	146.2	146.4	146.6	146.7	146.5	146.1	145.7	145.3	144.9	144.7	144.5

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	167.8	167.8	167.8	167.8	167.6	167.1	166.6	166.1	165.6	165.6	165.6
115°	187.9	188.0	188.1	188.1	188.1	188.0	187.9	187.8	187.7	187.9	188.1
117.5°	208.5	208.8	209.1	209.2	209.2	209.2	209.2	209.2	209.2	209.4	209.6
120°	229.9	230.1	230.3	230.4	230.4	230.5	230.6	230.7	230.8	231.3	231.8
122.5°	250.8	251.1	251.4	251.5	251.7	252.0	252.3	252.6	252.9	253.1	253.3
125°	271.7	272.1	272.5	272.7	272.9	273.3	273.6	274.0	274.4	274.6	274.8
127.5°	292.4	292.8	293.2	293.4	293.7	294.3	294.8	295.4	296.0	296.2	296.4
130°	313.3	314.0	314.7	315.0	315.2	315.6	315.9	316.3	316.7	317.0	317.3
132.5°	334.0	334.5	335.0	335.2	335.4	335.9	336.4	336.9	337.4	337.6	337.8
135°	355.5	355.6	355.8	355.9	356.1	356.5	356.9	357.3	357.7	357.8	357.9
137.5°	375.0	375.3	375.6	375.8	376.0	376.5	377.0	377.5	378.0	377.7	377.4
140°	394.8	395.5	396.2	396.5	396.5	396.6	396.7	396.8	396.9	396.8	396.7
142.5°	413.8	414.3	414.8	415.0	415.0	415.1	415.2	415.3	415.4	415.2	415.0
145°	432.1	432.4	432.8	433.0	433.1	433.2	433.3	433.4	433.5	433.2	432.9
147.5°	449.2	449.7	450.3	450.6	450.6	450.6	450.6	450.6	450.6	450.3	450.0
150°	465.1	465.6	466.2	466.5	466.5	466.5	466.5	466.5	466.5	466.3	466.1
152.5°	480.3	480.8	481.3	481.5	481.4	481.2	481.0	480.8	480.6	480.5	480.4
155°	494.3	495.0	495.7	496.0	495.8	495.4	495.1	494.7	494.3	494.2	494.1
157.5°	506.9	507.5	508.1	508.4	508.2	507.8	507.4	507.0	506.6	506.5	506.4
160°	518.8	519.2	519.6	519.8	519.6	519.1	518.6	518.1	517.6	517.6	517.6
162.5°	528.7	529.4	530.1	530.4	530.2	529.7	529.2	528.7	528.2	528.1	528.0
165°	537.5	538.2	538.9	539.2	538.9	538.3	537.7	537.1	536.5	536.5	536.5
167.5°	545.2	545.8	546.4	546.7	546.4	545.8	545.2	544.6	544.0	543.9	543.8
170°	551.1	551.8	552.5	552.8	552.5	551.8	551.1	550.5	549.8	549.8	549.8
172.5°	555.6	556.3	557.0	557.3	557.0	556.4	555.8	555.2	554.6	554.6	554.6
175°	558.6	559.3	560.0	560.3	560.0	559.4	558.9	558.3	557.7	557.7	557.7
177.5°	560.4	561.1	561.8	562.1	561.8	561.2	560.7	560.1	559.5	559.5	559.5
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	462.2	460.8	460.8	460.0	457.4	452.6	452.1	453.0	450.4	447.8	443.8
5°	484.8	476.5	473.9	471.3	466.1	457.4	453.9	450.8	446.0	440.4	434.2
7.5°	504.0	492.2	488.7	484.0	473.5	461.3	453.4	446.9	440.4	432.5	425.1
10°	528.0	511.0	502.7	495.7	481.3	464.3	452.6	443.0	432.5	422.9	413.3
12.5°	555.0	527.5	524.9	507.9	491.4	466.1	451.7	437.7	423.8	412.0	402.0
15°	577.7	547.6	536.7	525.4	493.5	462.2	448.2	432.5	416.4	403.7	388.9
17.5°	592.1	567.2	544.1	528.9	495.7	467.8	440.8	422.9	405.9	388.5	376.3
20°	609.5	573.3	553.3	532.8	500.1	463.5	436.4	414.2	393.3	377.6	362.7
22.5°	627.0	578.1	561.6	539.3	501.0	459.1	428.6	406.3	382.4	366.7	350.5
25°	625.2	585.1	557.6	538.9	492.2	455.2	419.4	393.3	371.0	351.0	334.8
27.5°	626.5	577.3	549.3	527.5	486.1	449.5	409.8	382.4	359.3	338.3	321.3
30°	627.0	565.5	541.1	514.9	474.8	436.0	398.9	371.0	346.6	323.9	308.7
32.5°	625.6	555.9	525.4	501.8	456.9	422.9	386.3	356.6	331.8	310.9	296.5
35°	622.6	544.6	509.2	479.6	438.6	404.2	374.5	344.0	317.4	298.2	281.7
37.5°	614.3	532.3	492.2	463.0	417.2	382.4	356.2	330.9	305.2	282.5	268.6
40°	608.2	515.8	475.2	443.4	394.1	360.1	338.3	314.3	289.1	268.6	255.1
42.5°	594.3	500.1	457.8	419.9	371.5	336.6	316.1	296.9	275.1	255.1	242.8
45°	571.6	483.1	436.4	398.1	346.6	313.5	294.7	279.0	259.9	240.7	228.5
47.5°	539.8	458.7	413.8	375.4	322.2	288.6	269.9	258.1	242.8	226.7	216.3
50°	505.3	432.1	390.6	352.7	298.7	266.0	247.6	236.7	226.7	211.9	201.9
52.5°	460.4	403.7	364.1	327.9	273.4	242.0	225.8	218.0	207.5	197.1	188.3
55°	416.8	367.1	334.4	300.0	248.5	219.3	203.6	195.3	189.2	180.5	173.5
57.5°	366.2	333.1	303.0	271.6	225.4	198.8	184.0	174.0	170.0	166.1	159.6
60°	319.6	294.3	269.9	243.7	201.4	177.4	163.1	155.2	151.3	148.7	144.3
62.5°	276.9	257.2	236.3	215.4	177.0	155.2	144.3	136.5	133.0	132.5	128.6
65°	235.9	221.9	204.9	184.4	154.3	135.2	124.7	119.9	116.0	116.0	112.9
67.5°	194.9	185.3	171.8	157.4	133.8	116.0	106.4	102.0	99.8	99.8	97.7
70°	162.2	155.6	143.4	130.8	110.3	96.8	89.4	85.5	84.1	84.6	82.8
72.5°	131.7	124.7	114.7	105.5	90.3	80.2	75.0	70.6	68.5	68.9	68.5
75°	102.0	98.5	89.8	82.8	70.6	63.7	58.9	56.7	54.9	55.4	54.5
77.5°	76.7	71.5	66.7	61.9	54.5	48.8	44.9	42.7	41.4	41.4	41.4
80°	52.3	51.4	47.5	44.9	38.8	34.4	31.4	31.0	29.6	29.6	29.6
82.5°	34.0	31.8	29.6	27.9	24.4	21.8	20.5	19.6	19.2	18.7	19.6
85°	18.7	17.4	16.6	14.8	13.5	12.2	10.9	10.5	10.0	10.5	10.0
87.5°	7.4	6.1	6.1	5.7	5.2	4.8	4.8	3.9	3.9	3.5	3.5
90°	6.7	5.4	4.8	4.3	3.3	2.4	1.4	0.4	1.4	2.4	3.3
92.5°	16.8	16.2	15.9	15.6	15.0	14.4	13.8	13.2	13.8	14.4	15.0
95°	30.3	29.5	29.1	28.8	28.1	27.4	26.7	26.0	26.7	27.4	28.1
97.5°	45.8	45.2	44.9	44.7	44.2	43.7	43.2	42.7	43.2	43.7	44.2
100°	63.3	62.8	62.6	62.3	61.7	61.1	60.5	59.9	60.5	61.1	61.7
102.5°	82.1	81.4	81.1	80.9	80.6	80.3	80.0	79.7	80.0	80.3	80.6
105°	101.3	100.4	100.0	99.9	99.7	99.5	99.3	99.1	99.3	99.5	99.7
107.5°	123.1	122.7	122.5	122.4	122.3	122.2	122.1	122.0	122.1	122.2	122.3
110°	144.3	144.1	144.0	143.9	143.7	143.6	143.4	143.2	143.4	143.6	143.7

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	165.6	165.6	165.6	165.6	165.5	165.4	165.3	165.2	165.3	165.4	165.5
115°	188.2	188.4	188.5	188.4	188.1	187.8	187.5	187.2	187.5	187.8	188.1
117.5°	209.8	210.0	210.1	210.1	210.0	209.9	209.8	209.7	209.8	209.9	210.0
120°	232.3	232.8	233.0	232.7	232.1	231.6	231.0	230.4	231.0	231.6	232.1
122.5°	253.4	253.6	253.7	253.5	253.1	252.8	252.4	252.0	252.4	252.8	253.1
125°	275.0	275.2	275.3	275.2	274.9	274.6	274.3	274.0	274.3	274.6	274.9
127.5°	296.6	296.8	296.9	296.6	296.0	295.5	294.9	294.3	294.9	295.5	296.0
130°	317.6	317.9	318.1	317.7	316.9	316.1	315.3	314.5	315.3	316.1	316.9
132.5°	338.0	338.2	338.3	337.9	337.1	336.4	335.6	334.8	335.6	336.4	337.1
135°	358.0	358.1	358.1	357.8	357.2	356.7	356.1	355.5	356.1	356.7	357.2
137.5°	377.1	376.8	376.6	376.4	375.9	375.4	374.9	374.4	374.9	375.4	375.9
140°	396.6	396.5	396.5	396.3	395.8	395.3	394.8	394.3	394.8	395.3	395.8
142.5°	414.8	414.6	414.5	414.3	413.8	413.3	412.8	412.3	412.8	413.3	413.8
145°	432.6	432.3	432.1	432.0	431.8	431.7	431.5	431.3	431.5	431.7	431.8
147.5°	449.7	449.4	449.3	449.1	448.7	448.4	448.0	447.6	448.0	448.4	448.7
150°	465.9	465.7	465.6	465.5	465.3	465.1	464.9	464.7	464.9	465.1	465.3
152.5°	480.3	480.2	480.2	480.0	479.7	479.4	479.1	478.8	479.1	479.4	479.7
155°	494.0	493.9	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8	493.8
157.5°	506.3	506.2	506.2	506.2	506.3	506.4	506.5	506.6	506.5	506.4	506.3
160°	517.6	517.6	517.6	517.7	517.9	518.1	518.3	518.5	518.3	518.1	517.9
162.5°	527.9	527.8	527.7	527.9	528.2	528.5	528.8	529.1	528.8	528.5	528.2
165°	536.5	536.5	536.5	536.7	537.0	537.3	537.6	537.9	537.6	537.3	537.0
167.5°	543.7	543.6	543.6	543.8	544.2	544.6	545.0	545.4	545.0	544.6	544.2
170°	549.8	549.8	549.8	550.0	550.4	550.7	551.1	551.5	551.1	550.7	550.4
172.5°	554.6	554.6	554.6	554.8	555.2	555.6	556.0	556.4	556.0	555.6	555.2
175°	557.7	557.7	557.7	557.9	558.3	558.7	559.1	559.5	559.1	558.7	558.3
177.5°	559.5	559.5	559.5	559.7	560.1	560.4	560.8	561.2	560.8	560.4	560.1
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	443.0	442.5	443.4	440.8	436.4	434.2	428.1	426.8	426.4	426.8	427.3
5°	430.8	430.3	429.0	424.7	419.4	415.5	408.1	407.7	405.0	402.4	403.7
7.5°	419.0	417.2	414.6	409.0	402.0	397.6	391.5	387.2	383.7	381.5	379.7
10°	407.2	404.6	402.0	394.6	385.9	379.3	371.9	368.4	364.5	362.7	361.0
12.5°	392.0	389.3	384.5	375.8	370.6	362.3	354.9	351.4	349.2	345.7	343.6
15°	379.7	374.5	371.9	362.7	351.8	351.0	337.5	336.6	332.2	332.2	328.7
17.5°	365.8	361.9	357.1	347.9	340.1	332.2	325.2	322.6	318.7	317.8	316.1
20°	352.3	347.0	345.3	336.1	327.9	318.3	310.9	308.2	306.5	304.8	306.1
22.5°	338.3	334.0	329.6	321.3	315.2	305.6	301.3	298.7	296.0	295.2	295.6
25°	324.8	320.9	316.5	308.2	301.7	293.9	289.9	288.6	287.3	287.3	286.9
27.5°	311.7	307.8	303.9	296.5	289.9	284.3	281.2	279.9	278.6	279.5	280.3
30°	298.2	294.7	291.2	284.7	279.5	274.2	272.5	271.6	271.2	273.4	273.4
32.5°	286.0	283.0	280.3	274.2	269.0	264.6	263.3	263.8	264.2	265.5	266.4
35°	273.4	271.2	268.6	263.3	259.0	255.1	255.5	255.5	256.4	258.5	260.3
37.5°	262.0	259.0	256.8	252.4	249.0	245.5	246.8	248.1	249.0	251.6	252.4
40°	248.5	247.2	245.5	241.1	238.1	237.6	238.1	238.9	240.7	242.0	243.3
42.5°	237.6	235.9	233.7	230.2	227.6	228.0	228.5	229.3	230.2	232.4	233.7
45°	225.4	224.1	222.4	219.3	217.1	217.6	218.0	218.0	218.9	221.5	222.4
47.5°	211.9	212.3	210.1	207.1	205.8	205.8	205.8	206.7	208.8	209.7	210.1
50°	198.8	197.9	197.5	194.5	193.6	193.1	193.6	194.0	197.1	196.6	197.9
52.5°	184.9	184.9	184.4	182.7	181.4	181.4	180.5	182.7	183.6	184.4	185.7
55°	171.3	170.0	169.6	168.7	167.0	166.5	167.4	170.0	170.9	171.8	173.1
57.5°	156.5	156.5	155.6	154.3	154.3	154.3	154.3	156.1	157.4	158.3	160.9
60°	143.0	141.3	140.0	140.0	140.0	139.5	142.1	142.1	144.7	145.2	146.1
62.5°	126.9	126.0	125.1	125.6	125.1	126.0	126.9	128.6	129.1	130.4	131.7
65°	111.6	111.6	110.7	113.4	111.6	111.6	113.8	113.8	114.7	116.0	117.7
67.5°	96.8	97.2	96.4	96.4	97.2	97.7	98.1	99.8	100.3	102.0	104.2
70°	81.5	82.4	82.8	82.0	82.8	83.7	84.6	85.0	86.8	87.6	88.9
72.5°	68.0	68.9	67.6	68.0	68.5	69.3	69.8	70.6	71.5	74.1	75.0
75°	54.5	54.1	53.6	55.4	54.5	56.2	56.7	56.7	57.6	59.7	60.6
77.5°	41.9	41.9	42.3	41.4	42.7	42.3	42.7	44.0	45.3	45.3	48.8
80°	29.2	30.1	30.1	30.1	30.5	31.0	30.1	32.3	32.7	32.7	34.0
82.5°	18.7	19.2	18.7	19.6	19.6	20.5	20.1	20.5	21.4	22.2	22.7
85°	10.0	10.0	10.9	10.9	10.5	10.9	10.5	10.9	11.8	11.8	12.2
87.5°	3.5	3.5	3.5	3.5	3.9	3.5	3.9	3.9	3.5	3.5	4.8
90°	4.3	4.8	5.4	6.7	8.0	9.3	10.6	11.0	11.4	11.7	12.1
92.5°	15.6	15.9	16.2	16.8	17.3	17.9	18.5	18.8	19.1	19.4	19.7
95°	28.8	29.1	29.5	30.3	31.0	31.8	32.6	33.0	33.4	33.8	34.2
97.5°	44.7	44.9	45.2	45.8	46.4	47.0	47.6	48.1	48.6	49.1	49.6
100°	62.3	62.6	62.8	63.3	63.8	64.3	64.8	65.1	65.4	65.7	66.0
102.5°	80.9	81.1	81.4	82.1	82.8	83.4	84.1	84.4	84.7	85.0	85.3
105°	99.9	100.0	100.4	101.3	102.2	103.1	104.0	104.0	104.0	104.0	104.0
107.5°	122.4	122.5	122.7	123.1	123.4	123.8	124.2	124.5	124.8	125.1	125.4
110°	143.9	144.0	144.1	144.3	144.5	144.7	144.9	145.3	145.7	146.1	146.5

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	166.1	166.6	167.1	167.6
115°	188.4	188.5	188.4	188.2	188.1	187.9	187.7	187.8	187.9	188.0	188.1
117.5°	210.1	210.1	210.0	209.8	209.6	209.4	209.2	209.2	209.2	209.2	209.2
120°	232.7	233.0	232.8	232.3	231.8	231.3	230.8	230.7	230.6	230.5	230.4
122.5°	253.5	253.7	253.6	253.4	253.3	253.1	252.9	252.6	252.3	252.0	251.7
125°	275.2	275.3	275.2	275.0	274.8	274.6	274.4	274.0	273.6	273.3	272.9
127.5°	296.6	296.9	296.8	296.6	296.4	296.2	296.0	295.4	294.8	294.3	293.7
130°	317.7	318.1	317.9	317.6	317.3	317.0	316.7	316.3	315.9	315.6	315.2
132.5°	337.9	338.3	338.2	338.0	337.8	337.6	337.4	336.9	336.4	335.9	335.4
135°	357.8	358.1	358.1	358.0	357.9	357.8	357.7	357.3	356.9	356.5	356.1
137.5°	376.4	376.6	376.8	377.1	377.4	377.7	378.0	377.5	377.0	376.5	376.0
140°	396.3	396.5	396.5	396.6	396.7	396.8	396.9	396.8	396.7	396.6	396.5
142.5°	414.3	414.5	414.6	414.8	415.0	415.2	415.4	415.3	415.2	415.1	415.0
145°	432.0	432.1	432.3	432.6	432.9	433.2	433.5	433.4	433.3	433.2	433.1
147.5°	449.1	449.3	449.4	449.7	450.0	450.3	450.6	450.6	450.6	450.6	450.6
150°	465.5	465.6	465.7	465.9	466.1	466.3	466.5	466.5	466.5	466.5	466.5
152.5°	480.0	480.2	480.2	480.3	480.4	480.5	480.6	480.8	481.0	481.2	481.4
155°	493.8	493.8	493.9	494.0	494.1	494.2	494.3	494.7	495.1	495.4	495.8
157.5°	506.2	506.2	506.2	506.3	506.4	506.5	506.6	507.0	507.4	507.8	508.2
160°	517.7	517.6	517.6	517.6	517.6	517.6	517.6	518.1	518.6	519.1	519.6
162.5°	527.9	527.7	527.8	527.9	528.0	528.1	528.2	528.7	529.2	529.7	530.2
165°	536.7	536.5	536.5	536.5	536.5	536.5	536.5	537.1	537.7	538.3	538.9
167.5°	543.8	543.6	543.6	543.7	543.8	543.9	544.0	544.6	545.2	545.8	546.4
170°	550.0	549.8	549.8	549.8	549.8	549.8	549.8	550.5	551.1	551.8	552.5
172.5°	554.8	554.6	554.6	554.6	554.6	554.6	554.6	555.2	555.8	556.4	557.0
175°	557.9	557.7	557.7	557.7	557.7	557.7	557.7	558.3	558.9	559.4	560.0
177.5°	559.7	559.5	559.5	559.5	559.5	559.5	559.5	560.1	560.7	561.2	561.8
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	426.8	427.3	425.5	424.2	427.7	425.5	425.5	426.0	425.1	426.4	426.0
5°	402.9	403.3	400.2	401.1	399.4	398.9	398.5	401.1	400.7	400.2	401.1
7.5°	379.3	379.3	378.0	377.1	377.1	375.8	377.6	377.1	378.0	378.0	379.3
10°	359.7	360.6	358.4	356.2	355.8	356.2	356.2	356.6	357.1	360.1	359.7
12.5°	343.6	342.3	341.8	340.5	338.3	337.5	336.6	341.4	340.1	340.1	340.1
15°	325.7	328.7	328.3	324.4	323.5	325.2	324.4	324.4	328.7	328.3	327.9
17.5°	316.1	315.2	314.3	312.2	312.6	312.2	312.6	312.6	315.2	315.2	315.2
20°	305.2	303.4	303.4	302.6	302.6	301.3	303.0	303.4	305.2	305.2	305.6
22.5°	295.6	294.3	294.3	293.9	294.7	293.0	294.7	295.2	295.2	296.5	296.5
25°	287.3	286.4	286.4	287.3	287.3	287.3	287.3	289.1	287.8	288.2	287.8
27.5°	279.9	280.3	280.8	281.2	280.8	281.2	281.7	282.5	283.0	282.5	281.7
30°	272.9	274.2	274.7	274.7	275.5	276.0	276.4	276.4	276.9	275.5	276.4
32.5°	267.7	267.7	268.6	269.0	269.9	270.3	270.3	271.2	270.8	269.4	269.9
35°	260.3	260.3	262.0	262.9	264.2	263.8	264.2	264.2	264.6	263.8	262.5
37.5°	252.9	253.7	253.7	255.5	255.9	256.4	255.9	256.8	256.4	255.5	255.1
40°	244.2	243.7	244.2	245.5	245.9	245.9	245.9	246.8	246.8	246.8	246.3
42.5°	233.3	234.6	234.1	235.4	235.0	235.0	235.9	236.7	237.2	235.9	236.3
45°	222.8	222.8	223.7	223.7	224.1	224.1	225.8	225.0	225.8	225.0	225.4
47.5°	211.5	211.9	211.9	212.3	213.2	214.1	213.2	213.6	213.6	214.1	213.2
50°	198.8	198.8	199.7	201.0	202.7	201.9	201.4	203.2	201.9	201.9	201.0
52.5°	185.7	187.0	187.5	188.8	190.1	190.5	191.0	190.1	190.5	189.2	189.7
55°	173.1	173.5	175.3	176.6	177.9	177.9	177.4	177.9	178.3	176.6	176.6
57.5°	160.4	161.8	163.5	163.5	165.2	165.2	164.8	164.8	165.2	163.9	163.5
60°	146.9	148.2	150.4	150.4	153.0	153.5	152.6	151.7	151.7	150.4	150.9
62.5°	132.5	133.8	135.2	137.3	139.1	138.2	140.0	138.2	138.6	136.0	136.0
65°	119.9	120.3	122.5	124.7	124.7	125.6	124.7	125.1	123.8	123.8	122.1
67.5°	105.1	105.1	107.3	109.4	111.6	111.6	111.6	110.3	110.3	109.0	109.0
70°	92.0	91.6	93.7	95.0	96.4	96.8	95.9	95.5	94.6	93.3	92.9
72.5°	75.9	76.7	78.9	79.8	82.0	81.5	83.7	81.1	81.1	78.9	78.5
75°	61.5	62.3	64.5	65.8	67.1	67.1	68.5	67.1	65.4	64.5	64.1
77.5°	48.8	48.4	50.1	52.3	52.8	52.3	53.2	52.8	51.0	51.0	50.1
80°	34.9	36.2	37.9	37.5	39.2	38.8	38.8	37.9	37.9	36.6	37.5
82.5°	23.1	24.4	24.9	24.4	24.9	25.7	26.2	25.7	25.7	24.9	25.3
85°	12.2	12.2	13.1	13.5	13.1	13.1	13.5	14.8	14.0	13.1	14.0
87.5°	3.9	3.5	3.5	3.9	3.5	3.5	3.9	3.9	4.4	4.4	4.4
90°	12.3	12.4	12.6	12.8	13.0	13.2	13.0	12.8	12.6	12.4	12.3
92.5°	19.8	19.7	19.5	19.3	19.1	18.9	19.1	19.3	19.5	19.7	19.8
95°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
97.5°	49.8	49.7	49.6	49.5	49.4	49.3	49.4	49.5	49.6	49.7	49.8
100°	66.1	66.2	66.4	66.6	66.8	67.0	66.8	66.6	66.4	66.2	66.1
102.5°	85.5	85.4	85.3	85.2	85.1	85.0	85.1	85.2	85.3	85.4	85.5
105°	104.0	104.1	104.3	104.4	104.6	104.8	104.6	104.4	104.3	104.1	104.0
107.5°	125.5	125.5	125.4	125.3	125.2	125.1	125.2	125.3	125.4	125.5	125.5
110°	146.7	146.6	146.4	146.2	146.0	145.8	146.0	146.2	146.4	146.6	146.7

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	167.8	167.8	167.8	167.8	167.8	167.8	167.8	167.8	167.8	167.8	167.8
115°	188.1	188.1	188.0	187.9	187.8	187.7	187.8	187.9	188.0	188.1	188.1
117.5°	209.2	209.1	208.8	208.5	208.2	207.9	208.2	208.5	208.8	209.1	209.2
120°	230.4	230.3	230.1	229.9	229.7	229.5	229.7	229.9	230.1	230.3	230.4
122.5°	251.5	251.4	251.1	250.8	250.5	250.2	250.5	250.8	251.1	251.4	251.5
125°	272.7	272.5	272.1	271.7	271.3	270.9	271.3	271.7	272.1	272.5	272.7
127.5°	293.4	293.2	292.8	292.4	292.0	291.6	292.0	292.4	292.8	293.2	293.4
130°	315.0	314.7	314.0	313.3	312.6	311.9	312.6	313.3	314.0	314.7	315.0
132.5°	335.2	335.0	334.5	334.0	333.5	333.0	333.5	334.0	334.5	335.0	335.2
135°	355.9	355.8	355.6	355.5	355.3	355.1	355.3	355.5	355.6	355.8	355.9
137.5°	375.8	375.6	375.3	375.0	374.7	374.4	374.7	375.0	375.3	375.6	375.8
140°	396.5	396.2	395.5	394.8	394.1	393.4	394.1	394.8	395.5	396.2	396.5
142.5°	415.0	414.8	414.3	413.8	413.3	412.8	413.3	413.8	414.3	414.8	415.0
145°	433.0	432.8	432.4	432.1	431.7	431.3	431.7	432.1	432.4	432.8	433.0
147.5°	450.6	450.3	449.7	449.2	448.6	448.0	448.6	449.2	449.7	450.3	450.6
150°	466.5	466.2	465.6	465.1	464.5	463.9	464.5	465.1	465.6	466.2	466.5
152.5°	481.5	481.3	480.8	480.3	479.8	479.3	479.8	480.3	480.8	481.3	481.5
155°	496.0	495.7	495.0	494.3	493.6	492.9	493.6	494.3	495.0	495.7	496.0
157.5°	508.4	508.1	507.5	506.9	506.3	505.7	506.3	506.9	507.5	508.1	508.4
160°	519.8	519.6	519.2	518.8	518.4	518.0	518.4	518.8	519.2	519.6	519.8
162.5°	530.4	530.1	529.4	528.7	528.0	527.3	528.0	528.7	529.4	530.1	530.4
165°	539.2	538.9	538.2	537.5	536.8	536.1	536.8	537.5	538.2	538.9	539.2
167.5°	546.7	546.4	545.8	545.2	544.6	544.0	544.6	545.2	545.8	546.4	546.7
170°	552.8	552.5	551.8	551.1	550.5	549.8	550.5	551.1	551.8	552.5	552.8
172.5°	557.3	557.0	556.3	555.6	554.9	554.2	554.9	555.6	556.3	557.0	557.3
175°	560.3	560.0	559.3	558.6	558.0	557.3	558.0	558.6	559.3	560.0	560.3
177.5°	562.1	561.8	561.1	560.4	559.7	559.0	559.7	560.4	561.1	561.8	562.1
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9	449.9
2.5°	427.3	428.1	428.6	426.8	425.5	427.7	430.8	432.9	434.7	436.9	438.2
5°	402.0	405.0	405.0	405.9	407.2	409.4	415.1	419.0	422.5	425.1	427.3
7.5°	380.6	382.8	384.1	386.3	388.5	391.5	398.1	403.7	409.0	412.0	415.5
10°	361.4	363.2	365.4	366.7	370.6	375.0	383.2	388.0	394.1	398.9	403.3
12.5°	343.1	349.2	350.5	350.1	353.6	358.4	366.7	374.1	380.6	385.4	390.2
15°	330.0	332.2	334.8	334.4	341.8	343.1	350.1	358.8	367.5	370.6	375.0
17.5°	315.7	319.1	321.8	323.1	325.2	330.0	336.6	343.1	354.5	354.9	366.2
20°	304.3	307.8	309.6	311.3	312.6	318.3	323.9	331.4	340.5	345.3	351.4
22.5°	296.9	298.7	300.0	301.3	303.0	306.1	313.0	321.3	327.4	332.7	336.6
25°	288.2	289.9	291.7	292.6	293.9	295.6	300.8	307.4	316.1	319.6	323.5
27.5°	282.1	282.1	283.0	283.0	284.7	286.4	290.4	296.5	303.4	307.8	313.0
30°	275.5	275.1	275.5	275.1	274.7	277.3	280.8	286.0	290.8	296.0	299.5
32.5°	269.0	268.6	268.6	269.0	267.3	268.6	270.3	275.1	280.3	283.0	286.9
35°	262.0	261.2	261.2	261.2	260.3	259.4	261.2	265.5	269.0	272.5	275.5
37.5°	255.1	253.7	253.7	252.9	252.0	250.7	250.7	254.2	259.0	260.3	264.2
40°	245.5	245.5	244.6	244.2	243.3	242.4	241.1	244.2	248.5	249.8	252.9
42.5°	235.9	234.6	234.1	234.1	234.1	232.8	231.9	234.1	236.7	238.9	240.7
45°	225.0	224.1	224.5	224.1	223.2	222.8	222.4	223.2	226.3	227.2	229.3
47.5°	213.2	212.8	212.8	212.3	211.9	212.3	210.6	212.8	213.6	214.5	216.3
50°	201.0	200.6	200.1	199.7	199.7	200.1	199.7	199.7	201.4	202.3	204.0
52.5°	188.8	187.5	187.5	187.0	187.0	186.2	187.0	187.5	188.3	189.2	190.1
55°	175.7	175.7	174.4	174.4	173.5	173.5	174.0	173.5	175.3	176.1	176.1
57.5°	163.1	161.3	161.8	160.9	160.0	159.6	159.6	160.4	161.3	161.3	162.2
60°	149.5	147.8	147.4	145.6	146.5	145.2	145.6	145.6	147.4	146.5	147.4
62.5°	136.0	133.8	132.5	131.7	131.7	132.1	131.2	130.8	131.7	132.5	134.3
65°	121.6	120.3	119.0	117.7	117.7	117.3	118.2	116.8	116.4	116.8	117.7
67.5°	106.8	105.5	104.2	102.9	103.3	102.0	101.1	102.5	101.6	102.0	102.9
70°	92.4	91.6	88.9	88.1	87.6	88.1	87.6	86.8	88.1	87.6	88.1
72.5°	78.0	77.2	75.9	73.7	73.7	73.2	72.8	72.8	72.4	72.4	72.4
75°	64.1	62.3	61.0	60.6	59.7	59.3	58.9	58.0	58.4	58.9	58.0
77.5°	49.7	47.5	47.1	47.1	45.8	45.8	46.2	45.8	45.3	45.3	45.3
80°	36.6	34.9	34.9	34.0	33.1	33.1	33.1	33.1	32.7	32.3	32.7
82.5°	23.5	23.1	22.7	22.7	23.5	21.8	22.7	22.2	21.8	21.8	21.4
85°	13.1	13.5	13.1	13.5	12.6	13.1	13.1	13.1	12.6	13.1	12.2
87.5°	4.8	4.8	4.8	5.2	5.2	5.2	5.2	5.2	5.7	5.2	5.2
90°	12.1	11.7	11.4	11.0	10.6	9.3	8.0	6.7	5.4	4.8	4.3
92.5°	19.7	19.4	19.1	18.8	18.5	17.9	17.3	16.8	16.2	15.9	15.6
95°	34.2	33.8	33.4	33.0	32.6	31.8	31.0	30.3	29.5	29.1	28.8
97.5°	49.6	49.1	48.6	48.1	47.6	47.0	46.4	45.8	45.2	44.9	44.7
100°	66.0	65.7	65.4	65.1	64.8	64.3	63.8	63.3	62.8	62.6	62.3
102.5°	85.3	85.0	84.7	84.4	84.1	83.4	82.8	82.1	81.4	81.1	80.9
105°	104.0	104.0	104.0	104.0	104.0	103.1	102.2	101.3	100.4	100.0	99.9
107.5°	125.4	125.1	124.8	124.5	124.2	123.8	123.4	123.1	122.7	122.5	122.4
110°	146.5	146.1	145.7	145.3	144.9	144.7	144.5	144.3	144.1	144.0	143.9

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	167.6	167.1	166.6	166.1	165.6	165.6	165.6	165.6	165.6	165.6	165.6
115°	188.1	188.0	187.9	187.8	187.7	187.9	188.1	188.2	188.4	188.5	188.4
117.5°	209.2	209.2	209.2	209.2	209.2	209.4	209.6	209.8	210.0	210.1	210.1
120°	230.4	230.5	230.6	230.7	230.8	231.3	231.8	232.3	232.8	233.0	232.7
122.5°	251.7	252.0	252.3	252.6	252.9	253.1	253.3	253.4	253.6	253.7	253.5
125°	272.9	273.3	273.6	274.0	274.4	274.6	274.8	275.0	275.2	275.3	275.2
127.5°	293.7	294.3	294.8	295.4	296.0	296.2	296.4	296.6	296.8	296.9	296.6
130°	315.2	315.6	315.9	316.3	316.7	317.0	317.3	317.6	317.9	318.1	317.7
132.5°	335.4	335.9	336.4	336.9	337.4	337.6	337.8	338.0	338.2	338.3	337.9
135°	356.1	356.5	356.9	357.3	357.7	357.8	357.9	358.0	358.1	358.1	357.8
137.5°	376.0	376.5	377.0	377.5	378.0	377.7	377.4	377.1	376.8	376.6	376.4
140°	396.5	396.6	396.7	396.8	396.9	396.8	396.7	396.6	396.5	396.5	396.3
142.5°	415.0	415.1	415.2	415.3	415.4	415.2	415.0	414.8	414.6	414.5	414.3
145°	433.1	433.2	433.3	433.4	433.5	433.2	432.9	432.6	432.3	432.1	432.0
147.5°	450.6	450.6	450.6	450.6	450.6	450.3	450.0	449.7	449.4	449.3	449.1
150°	466.5	466.5	466.5	466.5	466.5	466.3	466.1	465.9	465.7	465.6	465.5
152.5°	481.4	481.2	481.0	480.8	480.6	480.5	480.4	480.3	480.2	480.2	480.0
155°	495.8	495.4	495.1	494.7	494.3	494.2	494.1	494.0	493.9	493.8	493.8
157.5°	508.2	507.8	507.4	507.0	506.6	506.5	506.4	506.3	506.2	506.2	506.2
160°	519.6	519.1	518.6	518.1	517.6	517.6	517.6	517.6	517.6	517.6	517.7
162.5°	530.2	529.7	529.2	528.7	528.2	528.1	528.0	527.9	527.8	527.7	527.9
165°	538.9	538.3	537.7	537.1	536.5	536.5	536.5	536.5	536.5	536.5	536.7
167.5°	546.4	545.8	545.2	544.6	544.0	543.9	543.8	543.7	543.6	543.6	543.8
170°	552.5	551.8	551.1	550.5	549.8	549.8	549.8	549.8	549.8	549.8	550.0
172.5°	557.0	556.4	555.8	555.2	554.6	554.6	554.6	554.6	554.6	554.6	554.8
175°	560.0	559.4	558.9	558.3	557.7	557.7	557.7	557.7	557.7	557.7	557.9
177.5°	561.8	561.2	560.7	560.1	559.5	559.5	559.5	559.5	559.5	559.5	559.7
180°	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8	560.8

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	449.9	449.9	449.9	449.9
2.5°	440.4	441.7	446.0	451.3
5°	431.6	435.1	441.2	449.5
7.5°	422.0	427.3	436.0	446.5
10°	411.1	418.6	429.5	442.5
12.5°	399.4	409.0	422.9	436.4
15°	392.0	401.5	414.2	429.0
17.5°	377.6	388.9	402.0	422.9
20°	362.7	375.4	392.4	413.3
22.5°	351.4	364.9	381.1	403.3
25°	337.9	351.8	369.3	392.4
27.5°	323.5	337.5	357.1	381.5
30°	312.6	326.1	344.9	371.0
32.5°	299.5	312.6	332.2	359.7
35°	284.7	299.5	318.3	346.2
37.5°	273.4	286.9	306.5	333.1
40°	261.2	272.9	292.1	318.3
42.5°	248.1	261.2	277.7	303.9
45°	235.9	245.5	262.5	287.3
47.5°	222.8	233.7	246.8	266.0
50°	208.8	218.0	232.4	245.5
52.5°	195.3	202.7	214.9	225.0
55°	180.9	188.3	197.5	203.6
57.5°	167.4	172.7	178.8	182.7
60°	150.9	156.1	160.0	163.9
62.5°	136.0	140.0	142.1	144.3
65°	120.8	122.9	124.3	126.0
67.5°	104.2	106.4	106.8	109.4
70°	88.9	89.4	90.3	91.6
72.5°	74.6	75.4	75.0	75.9
75°	59.7	60.6	59.7	60.6
77.5°	45.3	46.2	46.2	47.5
80°	32.7	33.1	33.6	33.6
82.5°	21.4	22.7	21.8	22.2
85°	12.2	12.6	12.6	13.1
87.5°	5.7	6.1	5.7	6.5
90°	3.3	2.4	1.4	0.4
92.5°	15.0	14.4	13.8	13.2
95°	28.1	27.4	26.7	26.0
97.5°	44.2	43.7	43.2	42.7
100°	61.7	61.1	60.5	59.9
102.5°	80.6	80.3	80.0	79.7
105°	99.7	99.5	99.3	99.1
107.5°	122.3	122.2	122.1	122.0
110°	143.7	143.6	143.4	143.2

TEST NUMBER: P1031661

CATALOG NUMBER: S123DIW-B340D460UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	165.5	165.4	165.3	165.2
115°	188.1	187.8	187.5	187.2
117.5°	210.0	209.9	209.8	209.7
120°	232.1	231.6	231.0	230.4
122.5°	253.1	252.8	252.4	252.0
125°	274.9	274.6	274.3	274.0
127.5°	296.0	295.5	294.9	294.3
130°	316.9	316.1	315.3	314.5
132.5°	337.1	336.4	335.6	334.8
135°	357.2	356.7	356.1	355.5
137.5°	375.9	375.4	374.9	374.4
140°	395.8	395.3	394.8	394.3
142.5°	413.8	413.3	412.8	412.3
145°	431.8	431.7	431.5	431.3
147.5°	448.7	448.4	448.0	447.6
150°	465.3	465.1	464.9	464.7
152.5°	479.7	479.4	479.1	478.8
155°	493.8	493.8	493.8	493.8
157.5°	506.3	506.4	506.5	506.6
160°	517.9	518.1	518.3	518.5
162.5°	528.2	528.5	528.8	529.1
165°	537.0	537.3	537.6	537.9
167.5°	544.2	544.6	545.0	545.4
170°	550.4	550.7	551.1	551.5
172.5°	555.2	555.6	556.0	556.4
175°	558.3	558.7	559.1	559.5
177.5°	560.1	560.4	560.8	561.2
180°	560.8	560.8	560.8	560.8

(END OF REPORT)