

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332091-927

Luminaire Tested: **S123DIW-S340D460U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332091-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D460U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

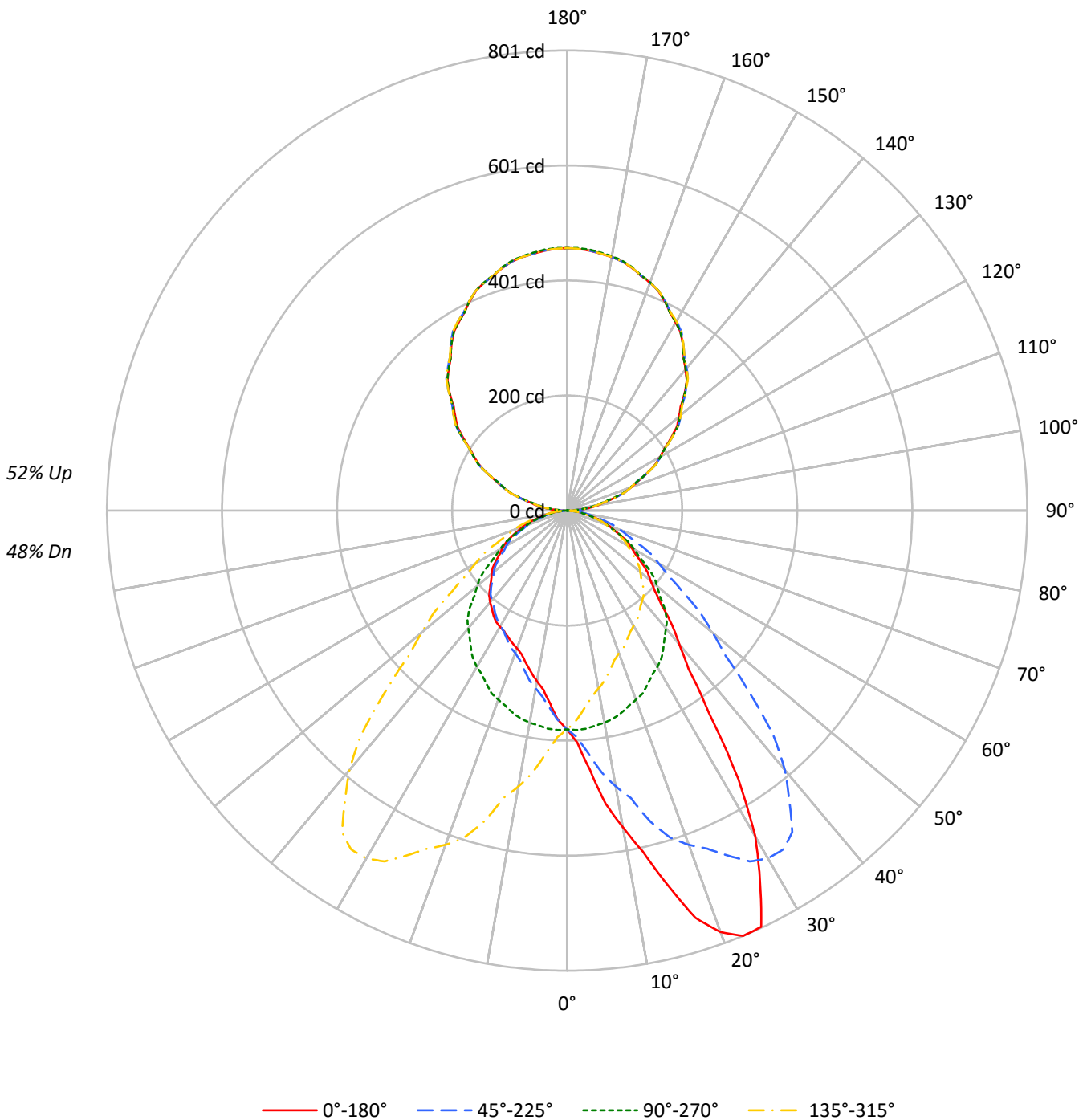
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41				41
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39	34				34
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34	29				29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25				25
5	68	57	49	43	63	53	46	40	45	39	35	38	34	30	31	28	25	22				22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	27	28	25	22	20				20
7	58	46	38	33	53	43	36	31	37	31	27	31	27	24	25	22	20	17				17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	16				16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	18	16	14				14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4100	4100	4100	4100
5°	4889	4118	3649	4118
10°	6120	4098	3296	4098
15°	7506	4063	3069	4063
20°	8942	4013	2922	4013
25°	9495	3950	2888	3950
30°	8139	3904	2903	3904
35°	5660	3840	2934	3840
40°	4263	3763	2925	3763
45°	3539	3649	2888	3649
50°	3170	3418	2862	3418
55°	2965	3170	2826	3170
60°	2781	2908	2796	2908
65°	2613	2651	2707	2651
70°	2452	2357	2578	2357
75°	2196	2067	2366	2067
80°	1922	1692	2039	1692
85°	1507	1235	1371	1235



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.6
10°-20°	120.3	5.0
20°-30°	201.9	8.4
30°-40°	228.6	9.5
40°-50°	205.0	8.5
50°-60°	165.5	6.8
60°-70°	115.3	4.8
70°-80°	60.6	2.5
80°-90°	16.2	0.7
90°-100°	29.8	1.2
100°-110°	89.1	3.7
110°-120°	151.6	6.3
120°-130°	199.4	8.2
130°-140°	224.1	9.3
140°-150°	220.3	9.1
150°-160°	185.4	7.7
160°-170°	123.4	5.1
170°-180°	43.2	1.8
0°-30°	359.8	14.9
0°-40°	588.4	24.3
0°-60°	958.9	39.7
0°-90°	1151.0	47.6
90°-120°	270.4	11.2
90°-150°	914.1	37.8
90°-180°	1266.0	52.4
0°-180°	2417.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	11	0	11	0	11	6
95°	28	21	28	21	28	29
105°	86	81	86	81	86	91
115°	153	153	153	153	153	151
125°	221	223	221	223	221	197
135°	289	290	289	290	289	222
145°	352	352	352	352	352	219
155°	402	402	402	402	402	185
165°	437	438	437	438	437	123
175°	454	456	454	456	454	43
180°	457	457	457	457	457	



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	6.6	6.3	6.3	6.5	6.3	6.4	6.5	6.6	6.7	6.7	6.7
90°	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3	9.0	8.6	7.6
92.5°	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3	14.0	13.8	13.2
95°	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2	26.9	26.5	25.9
97.5°	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3	41.9	41.6	41.1
100°	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2	53.0	52.8	52.4
102.5°	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9	65.7	65.4	64.9
105°	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7	84.7	84.7	84.0
107.5°	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1	104.9	104.6	104.3
110°	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7	118.4	118.1	118.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4	132.0	131.6	131.6
115°	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1	153.0	153.0	153.1
117.5°	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0	174.0	174.0	174.3
120°	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0	188.1	188.1	188.5
122.5°	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1	202.2	202.5	202.7
125°	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0	223.3	223.6	223.8
127.5°	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8	244.2	244.6	244.8
130°	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5	257.8	258.1	258.3
132.5°	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8	271.2	271.6	271.8
135°	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9	291.2	291.5	291.6
137.5°	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5	310.8	311.1	310.9
140°	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3	323.4	323.4	323.4
142.5°	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3	335.4	335.5	335.4
145°	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1	353.2	353.2	353.0
147.5°	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2	380.2	380.2	380.0
152.5°	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6	389.5	389.4	389.3
155°	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5	403.1	402.8	402.7
157.5°	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3	414.9	414.6	414.5
160°	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6	422.2	421.8	421.8
162.5°	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5	429.1	428.7	428.6
165°	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2	437.8	437.3	437.3
167.5°	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3	444.8	444.3	444.3
170°	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2	448.6	448.1	448.1
172.5°	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2	451.7	451.1	451.1
175°	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4	455.0	454.5	454.5
177.5°	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9	456.5	456.1	456.1
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	6.7	6.7	6.1	5.3	4.8	4.2	4.0	3.6	3.5	3.6	3.6
90°	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4	1.2	2.0	2.8
92.5°	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7	9.3	9.7	10.3
95°	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2	21.7	22.3	22.9
97.5°	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6	38.0	38.4	38.9
100°	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8	49.3	49.7	50.2
102.5°	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7	62.0	62.3	62.6
105°	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8	81.0	81.1	81.3
107.5°	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9	103.0	103.1	103.1
110°	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7	116.8	117.0	117.2



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0	131.1	131.3	131.3
115°	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6	152.8	153.0	153.3
117.5°	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3	174.4	174.6	174.8
120°	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7	188.2	188.7	189.2
122.5°	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8	202.2	202.6	202.9
125°	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3	223.6	223.8	224.0
127.5°	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1	243.6	244.2	244.6
130°	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4	257.0	257.6	258.3
132.5°	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5	270.1	270.8	271.5
135°	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7	290.2	290.7	291.1
137.5°	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4	308.8	309.2	309.6
140°	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3	321.7	322.1	322.5
142.5°	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1	333.5	333.9	334.3
145°	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5	351.6	351.8	352.0
147.5°	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6	367.8	368.1	368.4
150°	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7	378.9	379.1	379.2
152.5°	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9	388.2	388.4	388.6
155°	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
157.5°	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8	414.7	414.6	414.5
160°	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6	422.4	422.2	422.1
162.5°	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4	429.2	429.0	428.7
165°	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3	438.1	437.8	437.6
167.5°	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4	445.1	444.8	444.5
170°	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5	449.2	448.9	448.5
172.5°	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7	452.3	452.0	451.7
175°	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9	455.6	455.3	455.0
177.5°	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3	457.0	456.8	456.5
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	3.6	4.0	4.0	4.4	4.4	4.8	4.9	4.7	4.8	5.2	4.7
90°	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3	9.6	9.9	10.1
92.5°	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3	14.6	14.8	14.9
95°	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2	27.5	27.8	28.0
97.5°	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3	42.7	43.0	43.2
100°	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2	53.5	53.7	53.9
102.5°	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9	66.1	66.4	66.5
105°	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.8
107.5°	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1	105.4	105.6	105.7
110°	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7	119.1	119.4	119.5



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4	132.8	133.2	133.3
115°	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1	153.2	153.3	153.3
117.5°	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0	174.0	174.0	173.9
120°	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0	187.9	187.8	187.7
122.5°	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1	201.8	201.6	201.5
125°	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0	222.7	222.4	222.0
127.5°	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8	243.3	242.8	242.4
130°	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5	257.1	256.8	256.4
132.5°	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8	270.5	270.1	269.7
135°	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9	290.6	290.3	290.0
137.5°	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5	310.1	309.7	309.4
140°	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3	323.2	323.1	322.8
142.5°	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3	335.3	335.2	334.9
145°	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1	353.0	352.9	352.8
147.5°	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9	369.9	369.9	369.6
150°	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2	380.2	380.2	379.9
152.5°	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6	389.8	389.9	389.8
155°	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5	403.8	404.1	403.9
157.5°	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3	415.7	416.0	415.9
160°	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6	423.0	423.4	423.4
162.5°	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5	429.9	430.3	430.2
165°	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2	438.7	439.2	439.1
167.5°	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3	445.8	446.2	446.2
170°	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2	449.7	450.3	450.3
172.5°	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2	452.7	453.1	453.1
175°	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4	455.9	456.4	456.4
177.5°	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9	457.3	457.6	457.6
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	4.8	4.8	4.6	4.5	4.6	4.8	4.8	4.7	5.2	4.8	4.7
90°	10.3	10.5	10.6	10.8	10.6	10.5	10.3	10.1	9.9	9.6	9.3
92.5°	14.8	14.7	14.6	14.5	14.6	14.7	14.8	14.9	14.8	14.6	14.3
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.8	27.5	27.2
97.5°	43.2	43.2	43.1	43.1	43.1	43.2	43.2	43.2	43.0	42.7	42.3
100°	54.1	54.3	54.4	54.6	54.4	54.3	54.1	53.9	53.7	53.5	53.2
102.5°	66.5	66.4	66.4	66.3	66.4	66.4	66.5	66.5	66.4	66.1	65.9
105°	85.0	85.2	85.3	85.5	85.3	85.2	85.0	84.8	84.7	84.7	84.7
107.5°	105.6	105.5	105.4	105.4	105.4	105.5	105.6	105.7	105.6	105.4	105.1
110°	119.3	119.1	119.0	118.8	119.0	119.1	119.3	119.5	119.4	119.1	118.7



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.3	133.2	132.8	132.4
115°	153.2	153.1	153.0	153.0	153.0	153.1	153.2	153.3	153.3	153.2	153.1
117.5°	173.6	173.4	173.2	172.9	173.2	173.4	173.6	173.9	174.0	174.0	174.0
120°	187.5	187.4	187.2	187.0	187.2	187.4	187.5	187.7	187.8	187.9	188.0
122.5°	201.2	201.0	200.7	200.5	200.7	201.0	201.2	201.5	201.6	201.8	202.1
125°	221.7	221.4	221.1	220.8	221.1	221.4	221.7	222.0	222.4	222.7	223.0
127.5°	242.1	241.7	241.3	241.0	241.3	241.7	242.1	242.4	242.8	243.3	243.8
130°	255.9	255.3	254.8	254.1	254.8	255.3	255.9	256.4	256.8	257.1	257.5
132.5°	269.3	268.8	268.4	267.9	268.4	268.8	269.3	269.7	270.1	270.5	270.8
135°	289.9	289.7	289.5	289.4	289.5	289.7	289.9	290.0	290.3	290.6	290.9
137.5°	309.1	308.9	308.6	308.2	308.6	308.9	309.1	309.4	309.7	310.1	310.5
140°	322.3	321.7	321.2	320.6	321.2	321.7	322.3	322.8	323.1	323.2	323.3
142.5°	334.5	334.1	333.7	333.2	333.7	334.1	334.5	334.9	335.2	335.3	335.3
145°	352.4	352.1	351.8	351.5	351.8	352.1	352.4	352.8	352.9	353.0	353.1
147.5°	369.2	368.6	368.1	367.7	368.1	368.6	369.2	369.6	369.9	369.9	369.9
150°	379.5	379.0	378.5	378.0	378.5	379.0	379.5	379.9	380.2	380.2	380.2
152.5°	389.4	388.9	388.5	388.1	388.5	388.9	389.4	389.8	389.9	389.8	389.6
155°	403.4	402.8	402.3	401.7	402.3	402.8	403.4	403.9	404.1	403.8	403.5
157.5°	415.5	415.0	414.5	414.2	414.5	415.0	415.5	415.9	416.0	415.7	415.3
160°	423.1	422.8	422.5	422.2	422.5	422.8	423.1	423.4	423.4	423.0	422.6
162.5°	429.8	429.2	428.7	428.2	428.7	429.2	429.8	430.2	430.3	429.9	429.5
165°	438.6	438.0	437.4	436.9	437.4	438.0	438.6	439.1	439.2	438.7	438.2
167.5°	445.8	445.3	444.8	444.3	444.8	445.3	445.8	446.2	446.2	445.8	445.3
170°	449.7	449.2	448.6	448.1	448.6	449.2	449.7	450.3	450.3	449.7	449.2
172.5°	452.6	452.0	451.5	450.9	451.5	452.0	452.6	453.1	453.1	452.7	452.2
175°	455.8	455.3	454.7	454.2	454.7	455.3	455.8	456.4	456.4	455.9	455.4
177.5°	457.2	456.8	456.3	455.8	456.3	456.8	457.2	457.6	457.6	457.3	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	4.9	4.8	4.4	4.4	4.0	4.0	3.6	3.6	3.6	3.5	3.6
90°	9.0	8.6	7.6	6.6	5.5	4.4	3.6	2.8	2.0	1.2	0.4
92.5°	14.0	13.8	13.2	12.6	12.0	11.4	10.9	10.3	9.7	9.3	8.7
95°	26.9	26.5	25.9	25.3	24.6	24.0	23.4	22.9	22.3	21.7	21.2
97.5°	41.9	41.6	41.1	40.6	40.2	39.7	39.3	38.9	38.4	38.0	37.6
100°	53.0	52.8	52.4	52.0	51.6	51.2	50.7	50.2	49.7	49.3	48.8
102.5°	65.7	65.4	64.9	64.3	63.8	63.3	62.9	62.6	62.3	62.0	61.7
105°	84.7	84.7	84.0	83.3	82.5	81.8	81.4	81.3	81.1	81.0	80.8
107.5°	104.9	104.6	104.3	104.0	103.8	103.5	103.3	103.1	103.1	103.0	102.9
110°	118.4	118.1	118.0	117.8	117.6	117.5	117.3	117.2	117.0	116.8	116.7



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.0	131.6	131.6	131.6	131.5	131.5	131.4	131.3	131.3	131.1	131.0
115°	153.0	153.0	153.1	153.3	153.4	153.6	153.5	153.3	153.0	152.8	152.6
117.5°	174.0	174.0	174.3	174.4	174.7	174.8	174.9	174.8	174.6	174.4	174.3
120°	188.1	188.1	188.5	188.9	189.3	189.7	189.6	189.2	188.7	188.2	187.7
122.5°	202.2	202.5	202.7	202.9	203.1	203.3	203.2	202.9	202.6	202.2	201.8
125°	223.3	223.6	223.8	223.9	224.1	224.3	224.3	224.0	223.8	223.6	223.3
127.5°	244.2	244.6	244.8	244.9	245.2	245.3	245.2	244.6	244.2	243.6	243.1
130°	257.8	258.1	258.3	258.6	258.8	259.0	258.9	258.3	257.6	257.0	256.4
132.5°	271.2	271.6	271.8	272.0	272.1	272.4	272.1	271.5	270.8	270.1	269.5
135°	291.2	291.5	291.6	291.7	291.8	291.8	291.6	291.1	290.7	290.2	289.7
137.5°	310.8	311.1	310.9	310.7	310.5	310.3	310.0	309.6	309.2	308.8	308.4
140°	323.4	323.4	323.4	323.3	323.2	323.1	322.9	322.5	322.1	321.7	321.3
142.5°	335.4	335.5	335.4	335.3	335.1	334.9	334.7	334.3	333.9	333.5	333.1
145°	353.2	353.2	353.0	352.8	352.5	352.3	352.1	352.0	351.8	351.6	351.5
147.5°	369.9	369.9	369.6	369.4	369.2	368.9	368.7	368.4	368.1	367.8	367.6
150°	380.2	380.2	380.0	379.9	379.7	379.5	379.4	379.2	379.1	378.9	378.7
152.5°	389.5	389.4	389.3	389.2	389.0	389.0	388.8	388.6	388.4	388.2	387.9
155°	403.1	402.8	402.7	402.7	402.6	402.5	402.4	402.4	402.4	402.4	402.4
157.5°	414.9	414.6	414.5	414.5	414.5	414.4	414.4	414.5	414.6	414.7	414.8
160°	422.2	421.8	421.8	421.8	421.8	421.8	421.9	422.1	422.2	422.4	422.6
162.5°	429.1	428.7	428.6	428.6	428.5	428.5	428.6	428.7	429.0	429.2	429.4
165°	437.8	437.3	437.3	437.3	437.3	437.3	437.4	437.6	437.8	438.1	438.3
167.5°	444.8	444.3	444.3	444.2	444.1	444.0	444.2	444.5	444.8	445.1	445.4
170°	448.6	448.1	448.1	448.1	448.1	448.1	448.2	448.5	448.9	449.2	449.5
172.5°	451.7	451.1	451.1	451.1	451.1	451.1	451.3	451.7	452.0	452.3	452.7
175°	455.0	454.5	454.5	454.5	454.5	454.5	454.6	455.0	455.3	455.6	455.9
177.5°	456.5	456.1	456.1	456.1	456.1	456.1	456.3	456.5	456.8	457.0	457.3
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.0	4.2	4.8	5.3	6.1	6.7	6.7	6.7	6.7	6.7	6.6
90°	1.2	2.0	2.8	3.6	4.4	5.5	6.6	7.6	8.6	9.0	9.3
92.5°	9.3	9.7	10.3	10.9	11.4	12.0	12.6	13.2	13.8	14.0	14.3
95°	21.7	22.3	22.9	23.4	24.0	24.6	25.3	25.9	26.5	26.9	27.2
97.5°	38.0	38.4	38.9	39.3	39.7	40.2	40.6	41.1	41.6	41.9	42.3
100°	49.3	49.7	50.2	50.7	51.2	51.6	52.0	52.4	52.8	53.0	53.2
102.5°	62.0	62.3	62.6	62.9	63.3	63.8	64.3	64.9	65.4	65.7	65.9
105°	81.0	81.1	81.3	81.4	81.8	82.5	83.3	84.0	84.7	84.7	84.7
107.5°	103.0	103.1	103.1	103.3	103.5	103.8	104.0	104.3	104.6	104.9	105.1
110°	116.8	117.0	117.2	117.3	117.5	117.6	117.8	118.0	118.1	118.4	118.7



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.1	131.3	131.3	131.4	131.5	131.5	131.6	131.6	131.6	132.0	132.4
115°	152.8	153.0	153.3	153.5	153.6	153.4	153.3	153.1	153.0	153.0	153.1
117.5°	174.4	174.6	174.8	174.9	174.8	174.7	174.4	174.3	174.0	174.0	174.0
120°	188.2	188.7	189.2	189.6	189.7	189.3	188.9	188.5	188.1	188.1	188.0
122.5°	202.2	202.6	202.9	203.2	203.3	203.1	202.9	202.7	202.5	202.2	202.1
125°	223.6	223.8	224.0	224.3	224.3	224.1	223.9	223.8	223.6	223.3	223.0
127.5°	243.6	244.2	244.6	245.2	245.3	245.2	244.9	244.8	244.6	244.2	243.8
130°	257.0	257.6	258.3	258.9	259.0	258.8	258.6	258.3	258.1	257.8	257.5
132.5°	270.1	270.8	271.5	272.1	272.4	272.1	272.0	271.8	271.6	271.2	270.8
135°	290.2	290.7	291.1	291.6	291.8	291.8	291.7	291.6	291.5	291.2	290.9
137.5°	308.8	309.2	309.6	310.0	310.3	310.5	310.7	310.9	311.1	310.8	310.5
140°	321.7	322.1	322.5	322.9	323.1	323.2	323.3	323.4	323.4	323.4	323.3
142.5°	333.5	333.9	334.3	334.7	334.9	335.1	335.3	335.4	335.5	335.4	335.3
145°	351.6	351.8	352.0	352.1	352.3	352.5	352.8	353.0	353.2	353.2	353.1
147.5°	367.8	368.1	368.4	368.7	368.9	369.2	369.4	369.6	369.9	369.9	369.9
150°	378.9	379.1	379.2	379.4	379.5	379.7	379.9	380.0	380.2	380.2	380.2
152.5°	388.2	388.4	388.6	388.8	389.0	389.0	389.2	389.3	389.4	389.5	389.6
155°	402.4	402.4	402.4	402.4	402.5	402.6	402.7	402.7	402.8	403.1	403.5
157.5°	414.7	414.6	414.5	414.4	414.4	414.5	414.5	414.5	414.6	414.9	415.3
160°	422.4	422.2	422.1	421.9	421.8	421.8	421.8	421.8	421.8	422.2	422.6
162.5°	429.2	429.0	428.7	428.6	428.5	428.5	428.6	428.6	428.7	429.1	429.5
165°	438.1	437.8	437.6	437.4	437.3	437.3	437.3	437.3	437.3	437.8	438.2
167.5°	445.1	444.8	444.5	444.2	444.0	444.1	444.2	444.3	444.3	444.8	445.3
170°	449.2	448.9	448.5	448.2	448.1	448.1	448.1	448.1	448.1	448.6	449.2
172.5°	452.3	452.0	451.7	451.3	451.1	451.1	451.1	451.1	451.1	451.7	452.2
175°	455.6	455.3	455.0	454.6	454.5	454.5	454.5	454.5	454.5	455.0	455.4
177.5°	457.0	456.8	456.5	456.3	456.1	456.1	456.1	456.1	456.1	456.5	456.9
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	6.5	6.4	6.3	6.5	6.3	6.3	6.6
90°	9.6	9.9	10.1	10.3	10.5	10.6	10.8
92.5°	14.6	14.8	14.9	14.8	14.7	14.6	14.5
95°	27.5	27.8	28.0	28.0	28.0	28.0	28.0
97.5°	42.7	43.0	43.2	43.2	43.2	43.1	43.1
100°	53.5	53.7	53.9	54.1	54.3	54.4	54.6
102.5°	66.1	66.4	66.5	66.5	66.4	66.4	66.3
105°	84.7	84.7	84.8	85.0	85.2	85.3	85.5
107.5°	105.4	105.6	105.7	105.6	105.5	105.4	105.4
110°	119.1	119.4	119.5	119.3	119.1	119.0	118.8



TEST NUMBER: P332091-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	132.8	133.2	133.3	133.2	133.2	133.2	133.2
115°	153.2	153.3	153.3	153.2	153.1	153.0	153.0
117.5°	174.0	174.0	173.9	173.6	173.4	173.2	172.9
120°	187.9	187.8	187.7	187.5	187.4	187.2	187.0
122.5°	201.8	201.6	201.5	201.2	201.0	200.7	200.5
125°	222.7	222.4	222.0	221.7	221.4	221.1	220.8
127.5°	243.3	242.8	242.4	242.1	241.7	241.3	241.0
130°	257.1	256.8	256.4	255.9	255.3	254.8	254.1
132.5°	270.5	270.1	269.7	269.3	268.8	268.4	267.9
135°	290.6	290.3	290.0	289.9	289.7	289.5	289.4
137.5°	310.1	309.7	309.4	309.1	308.9	308.6	308.2
140°	323.2	323.1	322.8	322.3	321.7	321.2	320.6
142.5°	335.3	335.2	334.9	334.5	334.1	333.7	333.2
145°	353.0	352.9	352.8	352.4	352.1	351.8	351.5
147.5°	369.9	369.9	369.6	369.2	368.6	368.1	367.7
150°	380.2	380.2	379.9	379.5	379.0	378.5	378.0
152.5°	389.8	389.9	389.8	389.4	388.9	388.5	388.1
155°	403.8	404.1	403.9	403.4	402.8	402.3	401.7
157.5°	415.7	416.0	415.9	415.5	415.0	414.5	414.2
160°	423.0	423.4	423.4	423.1	422.8	422.5	422.2
162.5°	429.9	430.3	430.2	429.8	429.2	428.7	428.2
165°	438.7	439.2	439.1	438.6	438.0	437.4	436.9
167.5°	445.8	446.2	446.2	445.8	445.3	444.8	444.3
170°	449.7	450.3	450.3	449.7	449.2	448.6	448.1
172.5°	452.7	453.1	453.1	452.6	452.0	451.5	450.9
175°	455.9	456.4	456.4	455.8	455.3	454.7	454.2
177.5°	457.3	457.6	457.6	457.2	456.8	456.3	455.8
180°	457.0	457.0	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)