



Sample Report

Colorimetric Print Analysis

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Client

Company Accolade Press, Inc. Contact John Smith Phone (555) 678-1234 e-mail jsmith@accolade.com	Site Manchester Plant 7000 N. Drake Manchester OH 44303
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Test

Identifier ACP ISO Test 3/23/06 Test Form PressCal6.pdf Test Date 23-Mar-2006 Objective ISO 12647-2 grade #1 Sampling 100 sh interval, starting sh 500	Run Length 1500 C Density 1.40 M Density 1.45 Y Density 1.30 K Density 1.70
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Proof

Manufacturer KP Graphics Type Approval Substrate Test Stock Colorants '03' Donors	Equipment XP4 Setup Standard Screening 175L Composed Dot Match ISO 12647-2
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Press

Manufacturer MAN Roland Model R700 Impressions 20,300,000 Maintenance new blankets for test	Type Sheetfed Units 8 Age 2003 Serial No. R700-1457
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Substrate

Manufacturer Zander Type Mega Gloss Properties	Weight 170 gm Lot No. 34-256
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Inks

Manufacturer Flint-Schmidt Type ArrowStar 8030 Properties	Sequence KCMY Tack Uniform Lot No. AS-45698
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Plates

Manufacturer KP Graphics Properties Exp. Device Creo Trendsetter Dot Shape Composed Dot Tone Curves +3% Dot Gain	Type SWORD Excel Lot No. K-12-456-78 Screening Conventional Mesh 175L Linear Yes
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Fountain Solution

Manufacturer Anchor	pH 3.9
Type Emerald JRZ	Conductivity 1700
Properties	Temperature 25C

Blankets

Manufacturer MacDermid
Type XTUV
Properties

Measurements

Test		Reference	
File Sample_Data_A.txt		File FOGRA27L.txt	
Format PC7		Format ECI	

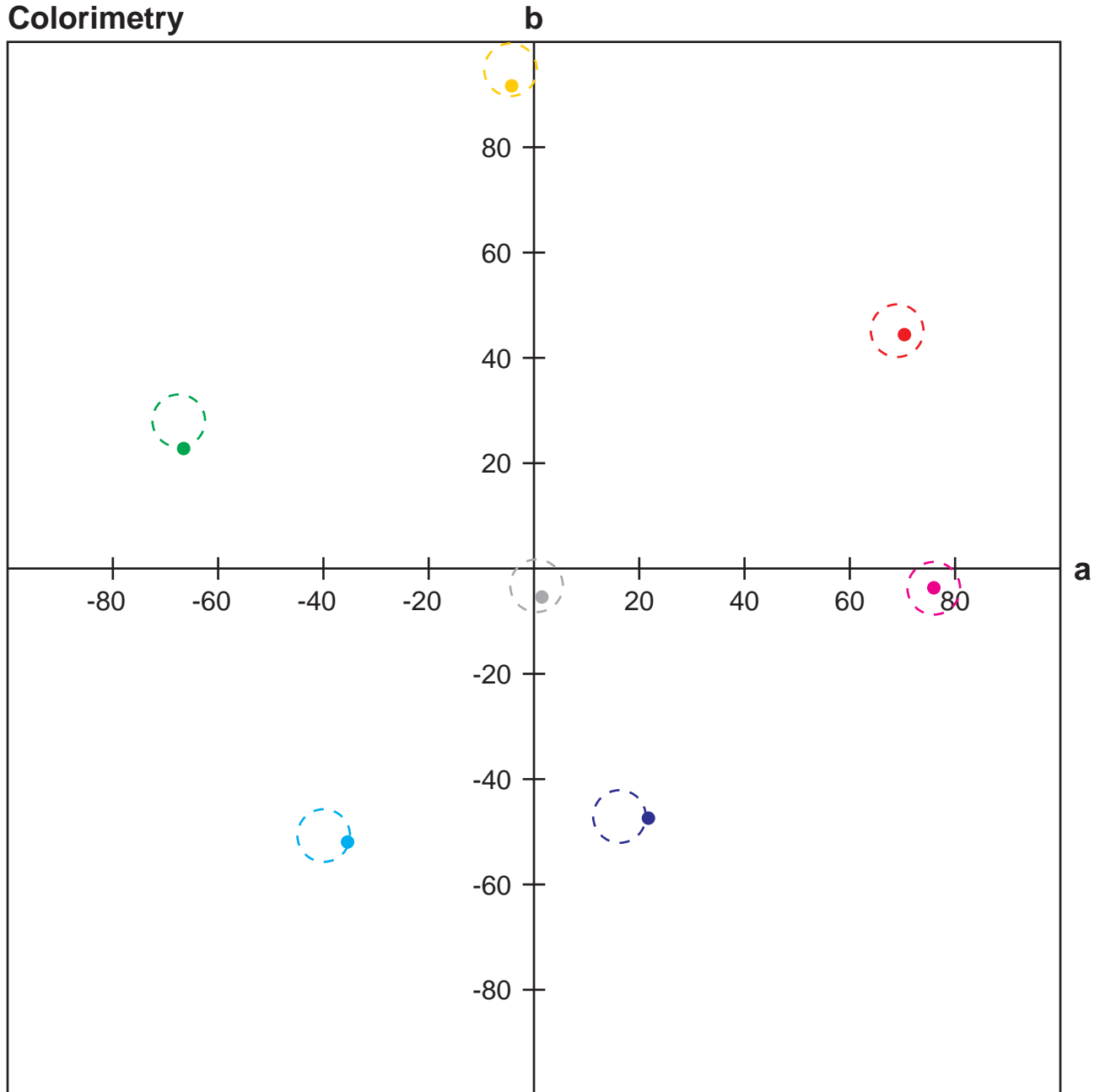
Densitometry (Process Colors)

Color	Red	Status E Density		Visual	Midtone TVI	Print Contrast
		Green	Blue			
Paper	0.057	0.053	0.026	0.053	-----	-----
Cyan	1.397	0.403	0.192	0.611	15.6%	42.8%
Magenta	0.249	1.418	0.679	0.759	14.0%	46.1%
Yellow	0.074	0.147	1.235	0.127	16.9%	37.6%
Black	1.503	1.505	1.517	1.509	18.8%	42.5%

Densitometry (Overprints)

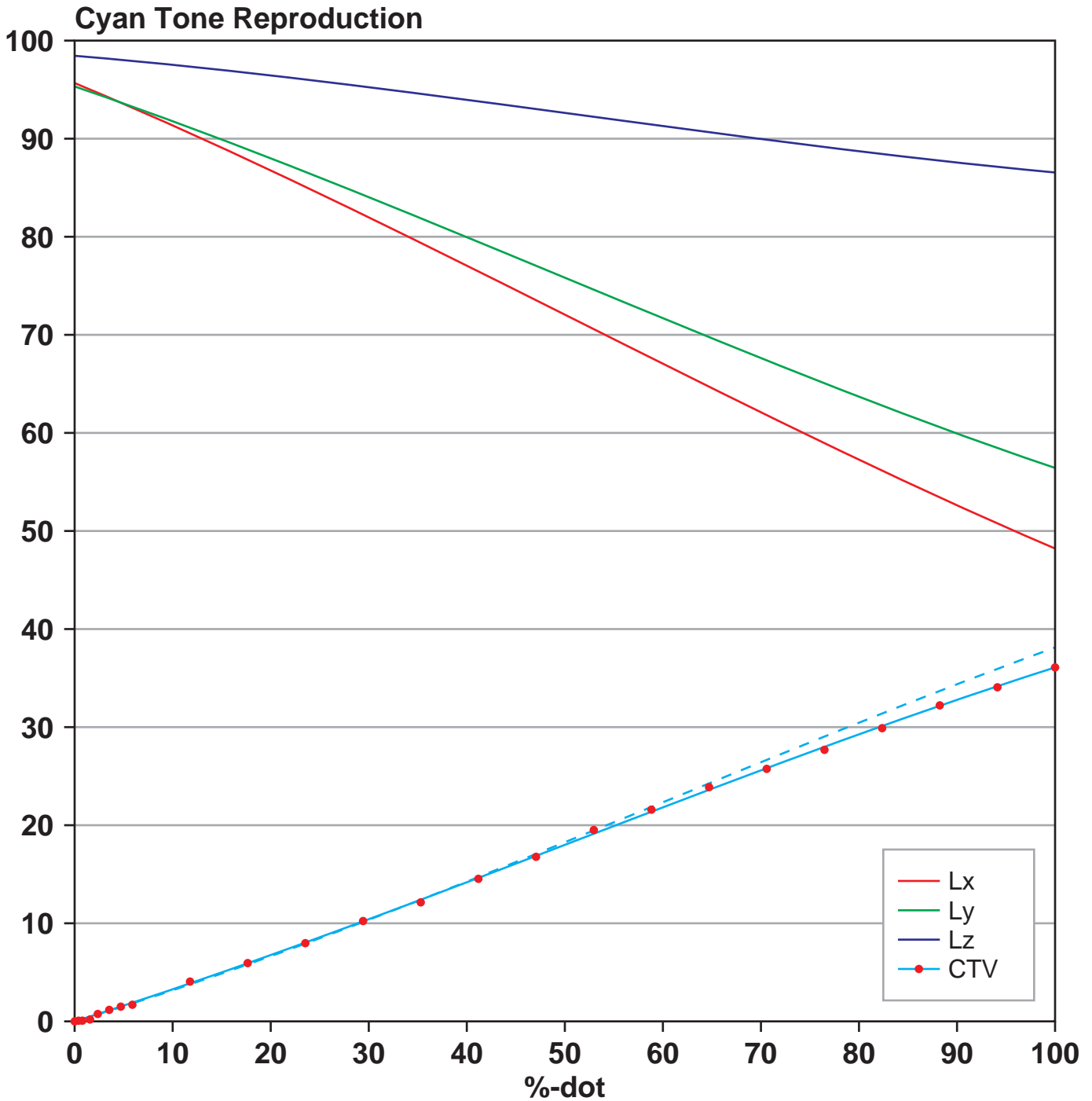
Color	Red	Status E Density		Visual	Laydown Order	Apparent Trap
		Green	Blue			
M+Y	0.249	1.408	1.452	0.770	Y over M	63.8%
C+Y	1.382	0.495	1.177	0.739	Y over C	81.4%
C+M	1.388	1.376	0.694	1.389	M over C	71.2%

Colorimetry



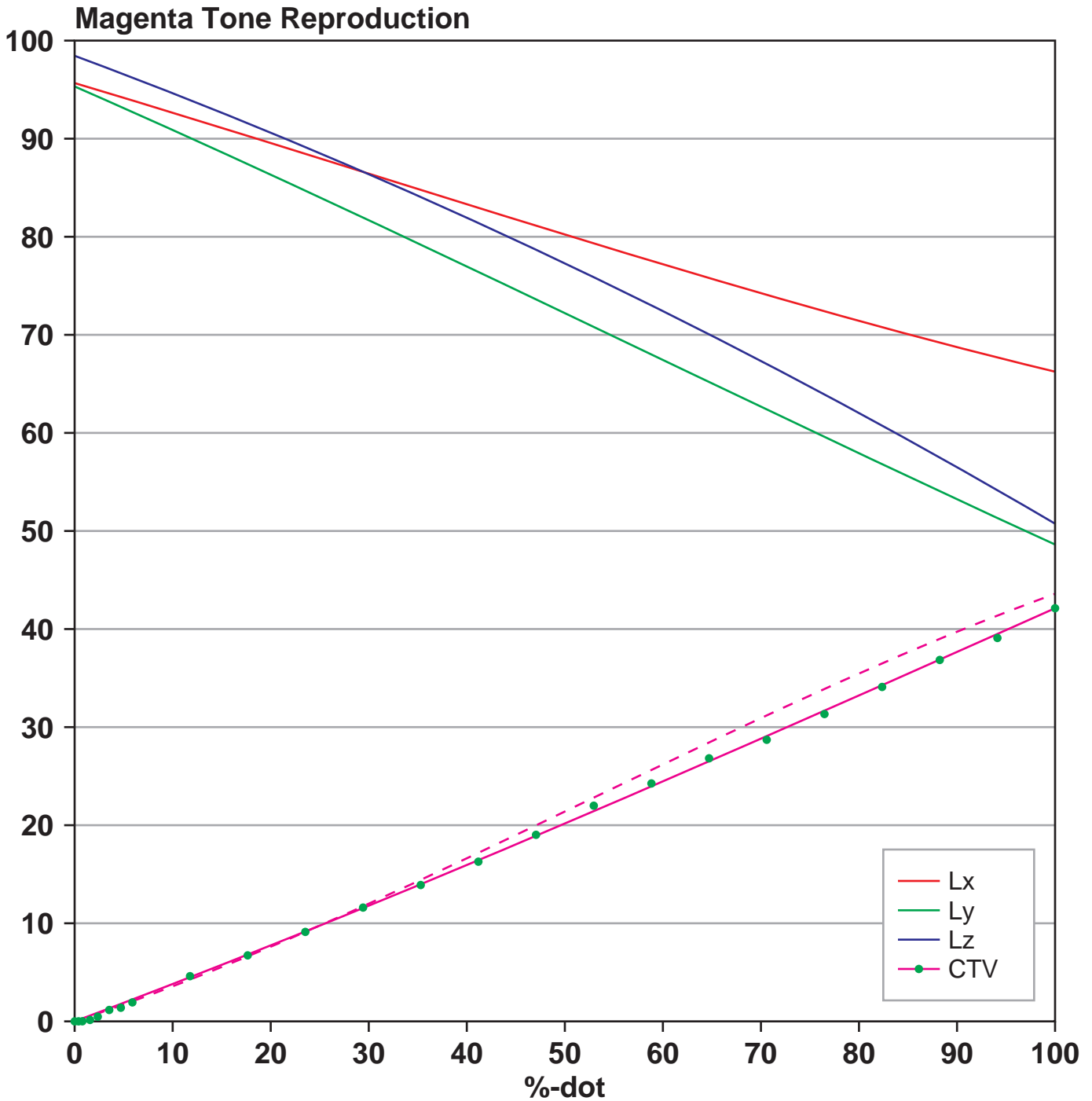
Solid Ink Measurements

Color	L	a	b	L	Cab	hab
Paper	95.33	1.50	-5.42	95.33	5.62	285.5°
Cyan	56.43	-35.41	-51.94	56.43	62.86	235.7°
Magenta	48.62	75.97	-3.66	48.62	76.06	357.2°
Yellow	89.41	-4.24	91.65	89.41	91.75	92.6°
Black	20.44	0.59	-0.31	20.44	0.67	332.0°
M+Y	48.12	70.38	44.41	48.12	83.22	32.3°
C+Y	49.94	-66.55	22.78	49.94	70.34	161.1°
C+M	23.69	21.74	-47.41	23.69	52.16	294.6°
C+M+Y	22.05	-0.33	-4.43	22.05	4.44	265.7°



Vector Parameters

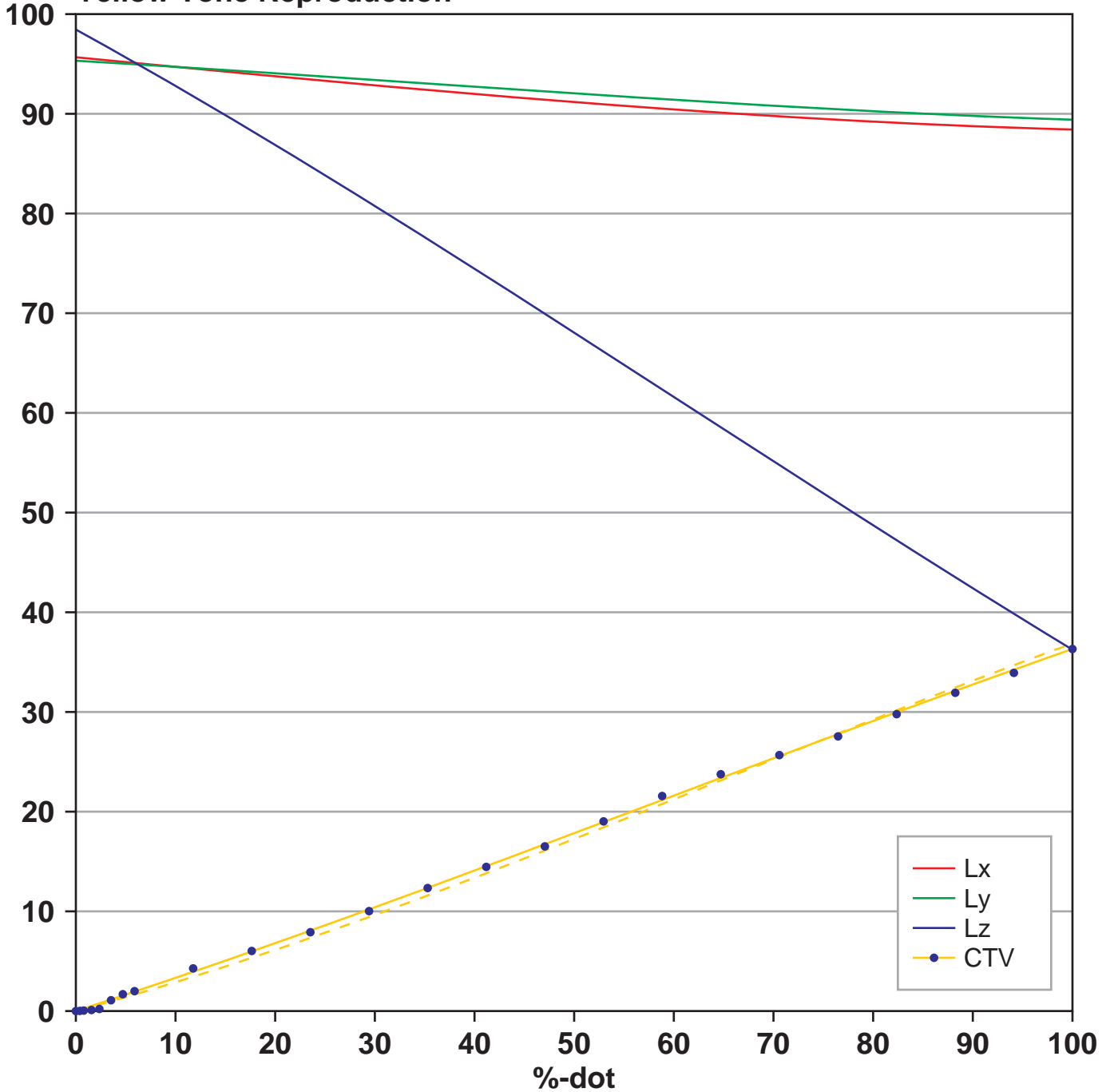
Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.672	48.213	-41.707	-42.637	1.056	-0.2%
Ly	95.324	56.429	-34.061	-33.658	1.065	0.1%
Lz	98.451	86.552	-8.318	-9.339	1.129	-1.1%
CTV	0.000	36.087	31.450	31.818	1.062	-0.1%



Vector Parameters

Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.672	66.244	-29.897	-24.038	1.042	2.5%
Ly	95.324	48.619	-43.754	-45.711	1.021	-0.5%
Lz	98.451	50.744	-37.184	-58.684	0.998	-5.6%
CTV	0.000	42.124	37.449	44.599	1.013	-2.1%

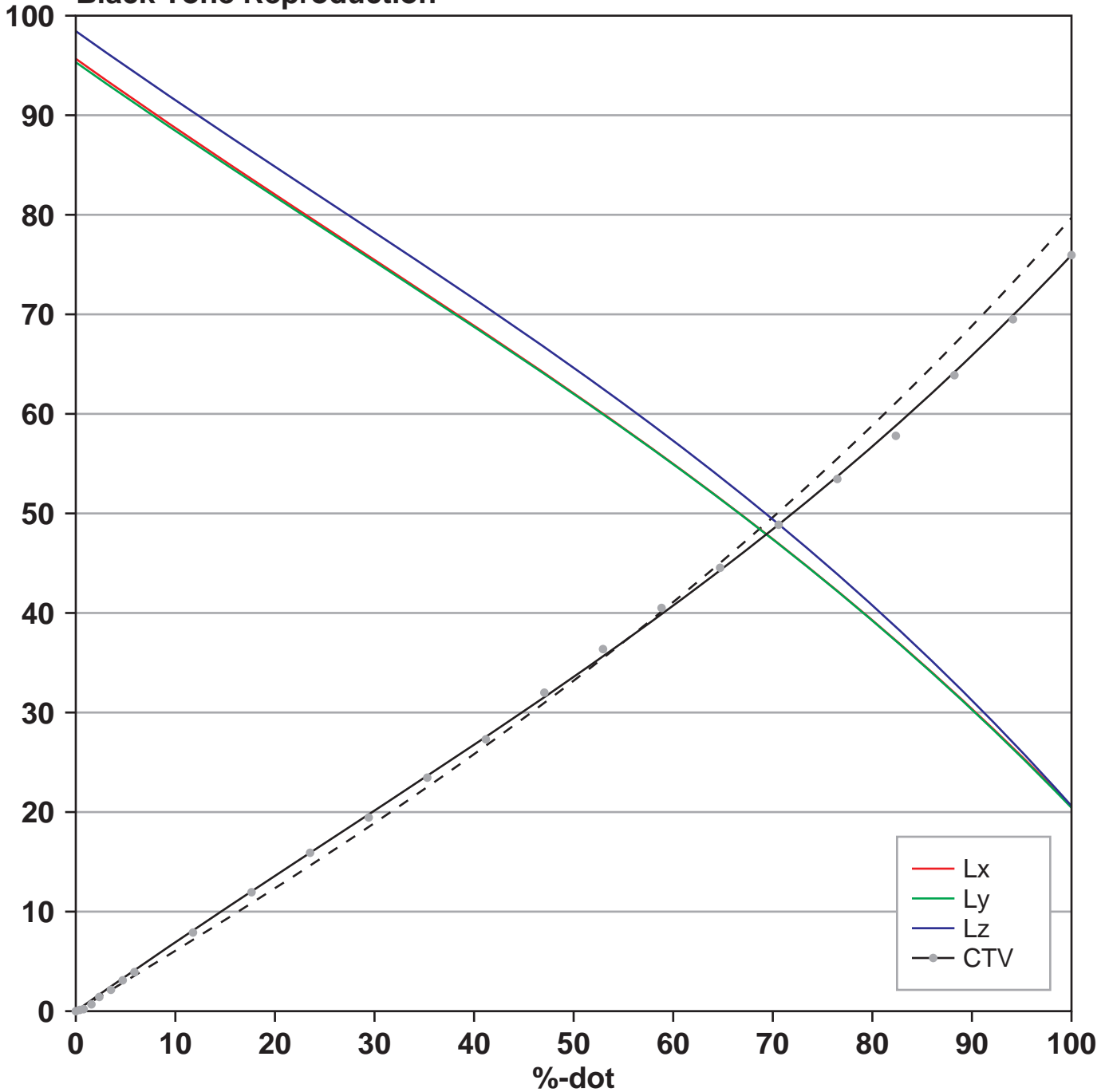
Yellow Tone Reproduction



Vector Parameters

Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.672	88.424	-9.678	-2.728	1.072	12.0%
Ly	95.324	89.407	-5.859	-3.347	1.111	5.3%
Lz	98.451	36.248	-55.040	-60.729	1.035	-1.1%
CTV	0.000	36.317	32.449	35.023	1.036	-0.9%

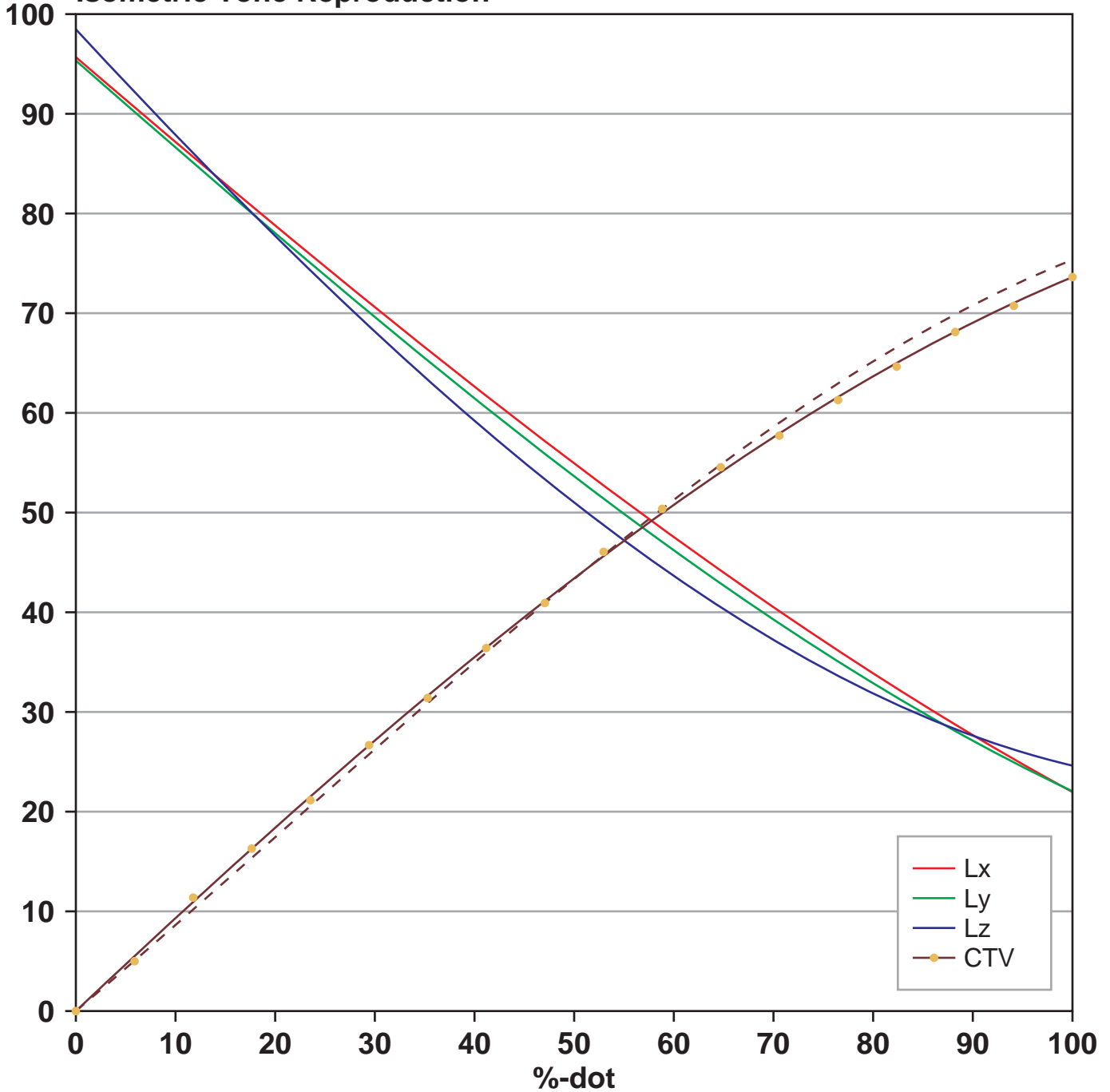
Black Tone Reproduction



Vector Parameters

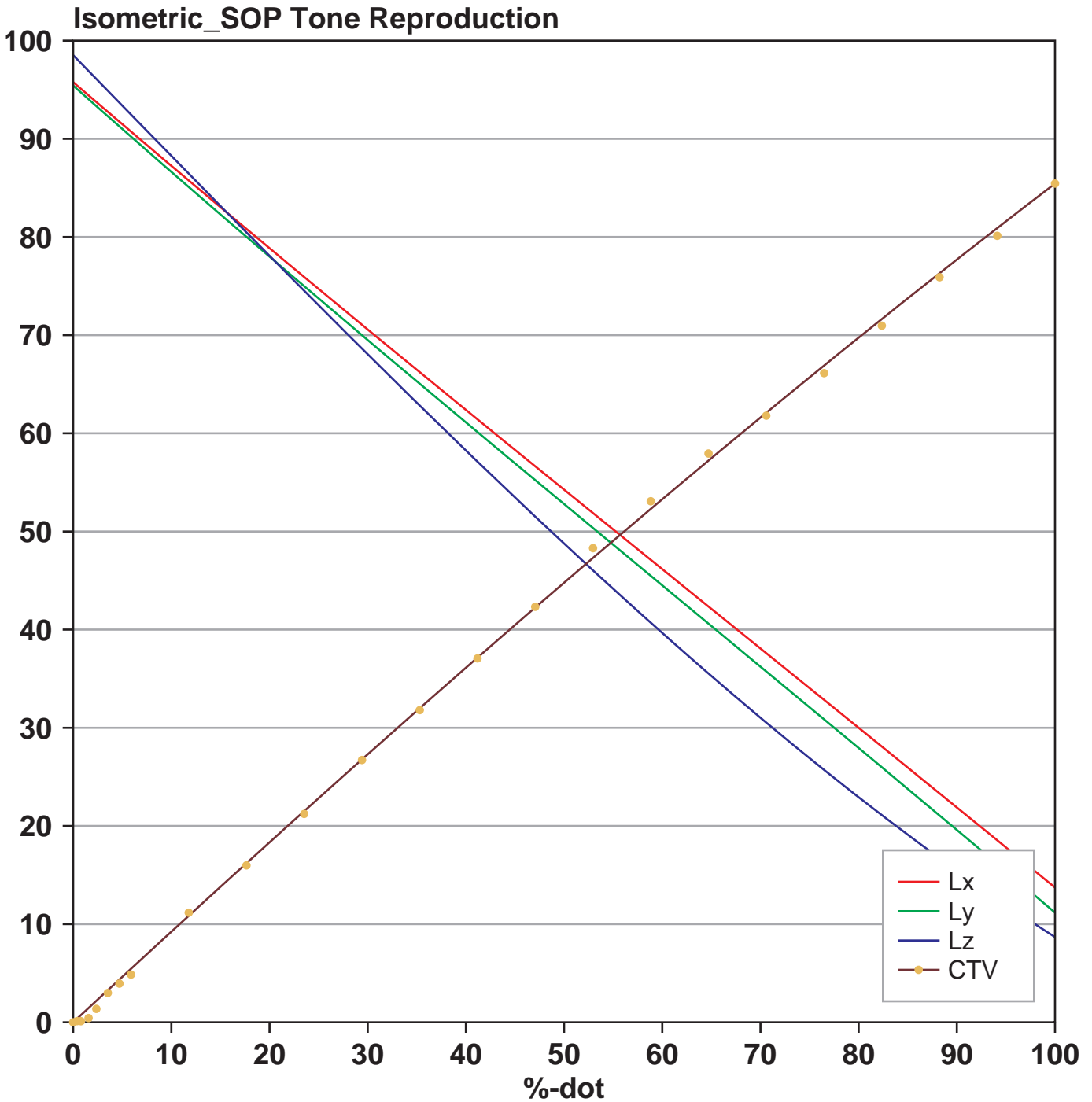
Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.672	20.575	-71.195	-102.827	0.921	-5.3%
Ly	95.324	20.438	-70.626	-103.595	0.918	-5.5%
Lz	98.451	20.620	-71.124	-111.895	0.912	-6.5%
CTV	0.000	75.950	70.988	106.156	0.917	-5.8%

Isometric Tone Reproduction



Vector Parameters

Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.682	21.971	-85.639	-54.533	1.025	5.3%
Ly	95.335	22.048	-87.420	-46.981	1.042	6.9%
Lz	98.476	24.616	-107.804	-23.517	1.056	14.3%
CTV	0.000	73.620	94.227	41.502	1.039	9.0%



Vector Parameters

Measure	Highlight Value	Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Lx	95.773	13.727	-86.005	-81.998	0.988	0.6%
Ly	95.423	11.175	-88.888	-84.781	0.985	0.6%
Lz	98.518	8.681	-102.685	-63.987	1.036	5.4%
CTV	0.000	85.440	92.916	76.408	1.005	2.4%

Isometric Contrast Ratios (Highlight)

Color	Highlight Contrast			CTV
	Lx	Ly	Lz	
C+M+Y	-85.64	-87.42	-107.80	94.23
SOP	-86.00	-88.89	-102.69	92.92
Ratio	0.996	0.983	1.050	1.014

Isometric Overprint (Highlight)

Color	Highlight Contrast			Isometric Overprint Factor
	Lx	Ly	Lz	
Cyan	-41.71	-34.06	-8.32	1.064
Magenta	-29.90	-43.75	-37.18	1.021
Yellow	-9.68	-5.86	-55.04	1.108
Sums	-81.28	-83.67	-100.54	-----
C+M+Y	-85.64	-87.42	-107.80	1.059

Isometric Overprint (Shadow)

Color	Shadow Contrast			Isometric Overprint Factor
	Lx	Ly	Lz	
M+Y	-43.07	-16.35	7.93	0.958
C+Y	-8.35	-25.64	-7.45	1.231
C+M	-2.86	0.23	-20.97	1.047
Sums	-54.28	-41.76	-20.48	-----
C+M+Y	-54.53	-46.98	-23.52	1.059

Gray Balance - SWOP

Cyan %-dot	L	Colorimetry		Gray Error	
		a	b	Chroma	Hue
25%	77.72	-0.05	-3.87	1.48	152.2°
50%	58.11	0.27	-1.24	2.47	107.1°
75%	40.56	-0.70	-1.00	2.28	130.0°

Gray Balance - GRACoL

Cyan %-dot	L	Colorimetry		Gray Error	
		a	b	Chroma	Hue
25%	78.03	-0.17	-4.64	1.44	182.6°
50%	58.11	0.27	-1.24	2.47	107.1°
75%	40.56	-0.70	-1.00	2.28	130.0°

Gray Balance - ISO 12647-2

Cyan %-dot	L	Colorimetry		Gray Error	
		a	b	Chroma	Hue
25%	76.98	0.94	-2.65	1.90	99.4°
50%	58.11	0.27	-1.24	2.47	107.1°
75%	40.14	-0.32	-1.44	1.69	129.8°

Isometric Ink Balance

CMY %-dot	L	Colorimetry		Ink Balance	
		a	b	x/y	z/y
25%	74.02	3.88	1.15	1.021	0.900
50%	53.48	5.51	4.14	1.046	0.828
75%	36.48	4.79	3.52	1.055	0.817

Gray Ramp

Density Over Paper	L	Colorimetry		Cyan	%-dot Magenta	Yellow
		a	b			
0.00	95.33	1.50	-5.42	0.0%	0.0%	0.0%
0.05	91.14	1.44	-5.21	6.1%	4.0%	3.6%
0.10	87.11	1.39	-5.02	11.7%	8.0%	6.9%
0.15	83.23	1.34	-4.83	17.3%	12.7%	11.1%
0.20	79.49	1.28	-4.64	21.9%	16.5%	14.9%
0.25	75.90	1.24	-4.47	26.6%	20.1%	17.9%
0.30	72.44	1.19	-4.30	31.3%	24.0%	20.6%
0.35	69.11	1.15	-4.14	35.4%	27.6%	24.2%
0.40	65.90	1.10	-3.98	39.6%	31.4%	26.9%
0.45	62.82	1.06	-3.83	43.6%	34.9%	30.1%
0.50	59.85	1.02	-3.69	47.2%	38.5%	33.5%
0.55	57.00	0.98	-3.55	51.1%	42.0%	36.3%
0.60	54.25	0.95	-3.42	54.5%	45.4%	39.7%
0.65	51.60	0.91	-3.29	57.9%	48.7%	42.8%
0.70	49.06	0.88	-3.16	61.2%	52.2%	45.8%
0.75	46.61	0.84	-3.05	64.5%	55.7%	48.8%
0.80	44.25	0.81	-2.93	67.7%	58.9%	52.4%
0.85	41.98	0.78	-2.82	70.6%	62.5%	55.8%
0.90	39.80	0.75	-2.71	73.7%	65.8%	59.4%
0.95	37.70	0.72	-2.61	76.5%	69.1%	63.2%
1.00	35.68	0.70	-2.51	79.3%	72.5%	67.1%
1.05	33.73	0.67	-2.42	82.0%	76.1%	71.0%
1.10	31.86	0.64	-2.33	84.6%	79.6%	75.4%
1.15	30.06	0.62	-2.24	87.2%	83.0%	80.0%
1.20	28.32	0.60	-2.16	89.7%	86.5%	84.8%
1.25	26.65	0.57	-2.07	92.1%	90.0%	89.6%
1.30	25.05	0.55	-2.00	94.4%	93.5%	94.7%
1.35	23.50	0.53	-1.92	96.8%	96.6%	101.5%

Compare Paper and Ink

Color		Colorimetry			Difference		
		L	a	b	Eab	E	
Paper	Test	95.33	1.50	-5.42	Abs	2.37	2.45
	Ref	95.97	0.50	-3.27	Rel	0.00	0.00
Cyan	Test	56.43	-35.41	-51.94	Abs	4.69	4.86
	Ref	55.16	-39.94	-50.71	Rel	3.77	4.13
Magenta	Test	48.62	75.97	-3.66	Abs	0.09	1.40
	Ref	47.22	75.95	-3.76	Rel	1.37	2.23
Yellow	Test	89.41	-4.24	91.65	Abs	3.07	3.08
	Ref	89.68	-4.45	94.71	Rel	1.72	1.75
Black	Test	20.44	0.59	-0.31	Abs	0.14	3.60
	Ref	16.84	0.46	-0.37	Rel	0.77	3.88
M+Y	Test	48.12	70.38	44.41	Abs	1.57	1.75
	Ref	47.34	69.00	45.16	Rel	1.08	1.57
C+Y	Test	49.94	-66.55	22.78	Abs	5.35	5.53
	Ref	48.55	-67.48	28.05	Rel	4.14	4.50
C+M	Test	23.69	21.74	-47.41	Abs	5.50	5.55
	Ref	24.42	16.25	-47.10	Rel	5.25	5.28
C+M+Y	Test	22.05	-0.33	-4.43	Abs	7.73	7.73
	Ref	21.94	-5.77	1.06	Rel	6.96	6.97

Compare Tone Reproduction

Color		Shadow Value	Highlight Contrast	Shadow Contrast	Twist	Bow
Cyan	Test	36.087	31.450	31.818	1.062	-0.1%
	Ref	38.122	30.062	36.463	1.064	-2.1%
Magenta	Test	42.124	37.449	44.599	1.013	-2.1%
	Ref	43.591	33.119	36.333	1.102	-0.9%
Yellow	Test	36.317	32.449	35.023	1.036	-0.9%
	Ref	36.871	27.019	36.450	1.070	-3.2%
Black	Test	75.950	70.988	106.156	0.917	-5.8%
	Ref	79.692	59.987	113.228	0.957	-8.4%
C+M+Y	Test	73.620	94.227	41.502	1.039	9.0%
	Ref	75.353	84.905	39.603	1.087	7.5%

Compare Ink Balance

CMY %-dot		Colorimetry			Ink Balance	
		L	a	b	x/y	z/y
25%	Test	74.02	3.88	1.15	1.021	0.900
	Ref	74.83	3.35	1.40	1.023	0.926
50%	Test	53.48	5.51	4.14	1.046	0.828
	Ref	54.12	4.96	5.50	1.047	0.827
75%	Test	36.48	4.79	3.52	1.055	0.817
	Ref	35.51	2.60	5.12	1.032	0.796