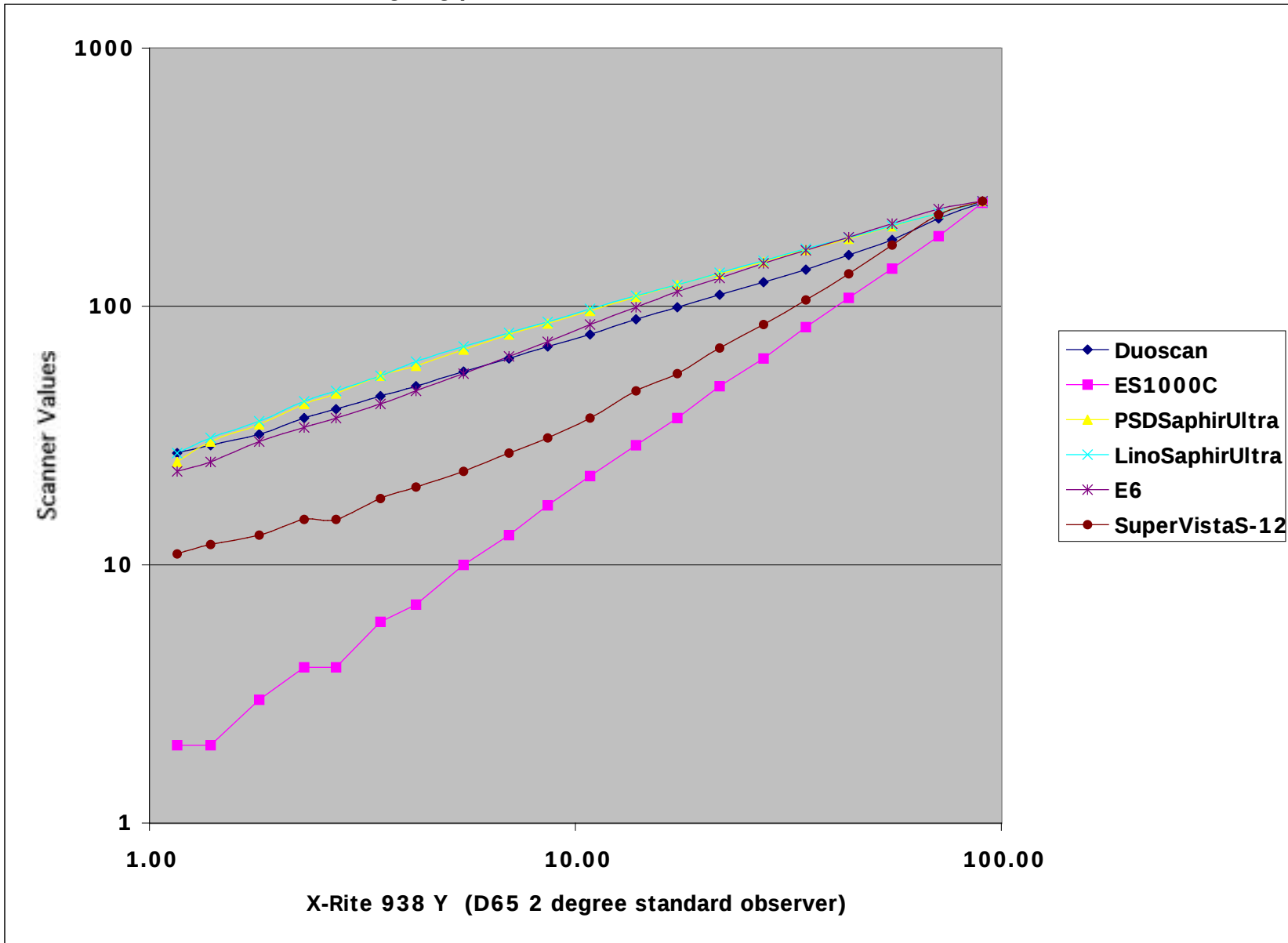


	Kodak Gray Scale									
	D65 2degree	D65 2degree	D65 2degree	D65 2degree	Green Channel	Green Channel	Green Channel	L Channel	Green Channel	Green Channel
Label	X-Rite 938 Y	X-Rite 938 L*	ColorTron Y	ColorTron L*	Duoscan	ES1000C	PSDSaphirUltra	LinoSaphirUltra	E6	SuperVistaS-12
A	90.44	96.37	95.98	98.43	252	252	255	254	255	255
1	71.30	87.70	76.09	89.90	219	187	229	229	238	226
2	55.40	79.24	59.31	81.46	181	140	204	205	209	173
3	43.77	72.05	47.16	74.29	158	108	183	184	185	134
4	34.81	65.55	37.81	67.88	139	83	166	167	165	106
5	27.62	59.49	30.13	61.77	124	63	149	150	147	85
6	21.80	53.79	24.02	56.11	111	49	134	135	129	69
M	17.36	48.66	19.16	50.87	99	37	121	121	114	55
8	13.88	44.01	15.40	46.17	89	29	109	110	99	47
9	10.82	39.20	12.04	41.28	78	22	96	98	85	37
10	8.60	35.14	9.66	37.22	70	17	86	87	73	31
11	6.99	31.84	7.88	33.73	63	13	78	79	64	27
12	5.47	28.01	6.16	29.82	56	10	68	70	55	23
13	4.23	24.42	4.77	26.08	49	7	59	61	47	20
14	3.49	21.89	3.93	23.44	45	6	54	54	42	18
15	2.74	18.97	3.10	20.45	40	4	46	47	37	15
B	2.31	16.99	2.62	18.44	37	4	42	43	34	15
17	1.81	14.48	2.05	15.73	32	3	35	36	30	13
18	1.39	11.92	1.58	13.12	29	2	30	31	25	12
19	1.16	10.38	1.33	11.52	27	2	25	27	23	11
			Estimated Gamma:		1.87	0.91	2.27	2.30	2.11	1.25
	Observations just from the numbers:									
		All of the scanners do OK in the highlights								
		The AGFA Duoscan, LinoColor Saphir Ultra and Microtek E6 do well in the midtones								
		TheEpson ES1000C and the UMAX SuperVista S-12 are weak in the midtones								
		The AGFA Duoscan, LinoColor Saphir Ultra and Microtek E6 are still doing well in the shadows								
		The Epson ES1000C has no definition in the shadows, despite the fact that I can easily see the difference between the last 8 tiles on the real card								
		The UMAX SuperVista S-12 doesn't do much better								
	Conclusions from the numbers:									
		The scanners that use gamma encoding have better image quality								
		The scanners that don't use gamma encoding have poor image quality								

Log-Log plot of Scanner Values versus CIE Y



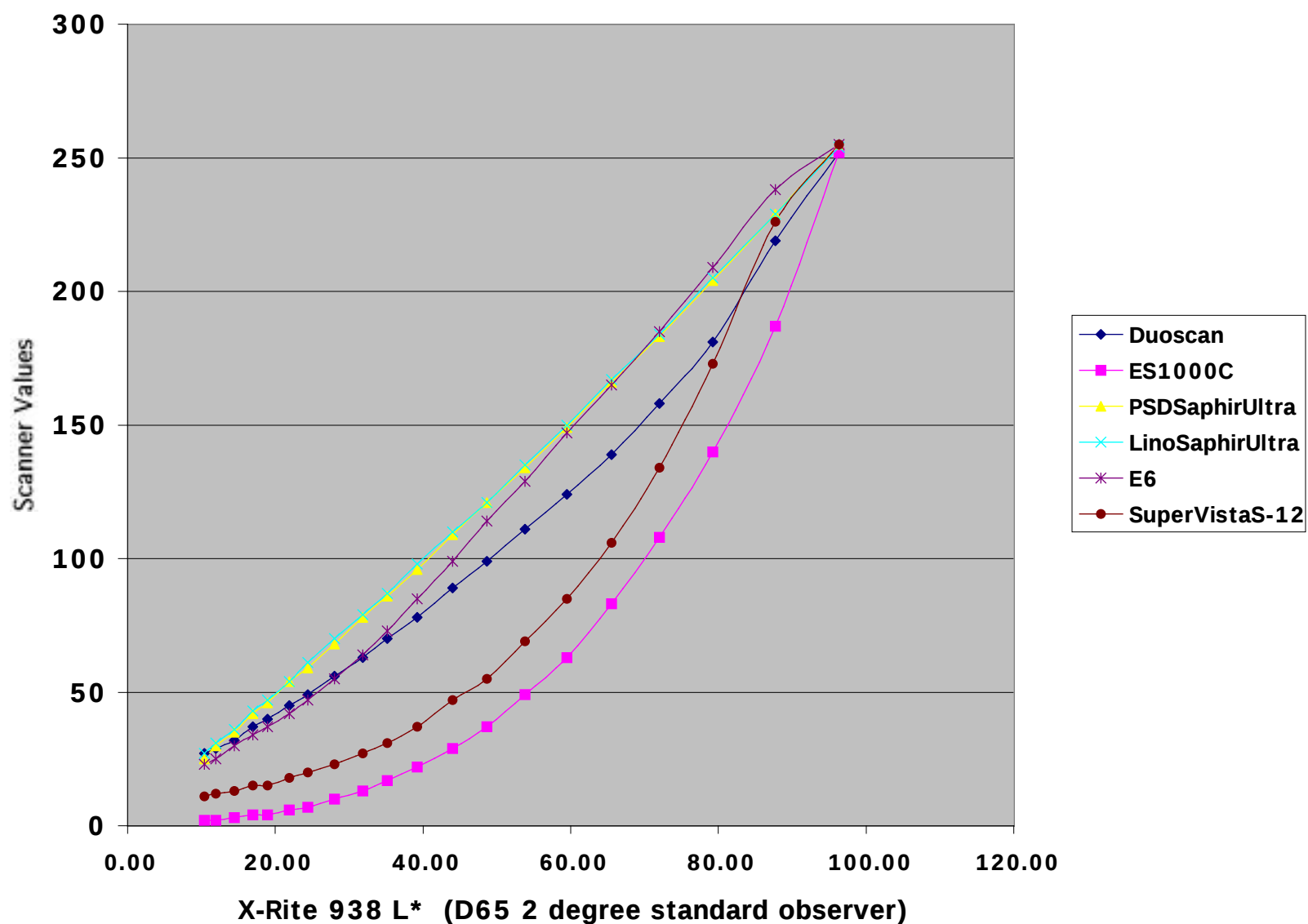
The Duoscan, LinoColor Saphir Ultra and Microtek E6 are all doing gamma encoding.

(although the Microtek looks like it might be doing something funny)

The Epson ES1000C and the UMAX SuperVista S-12 are not gamma encoded.

(and the Epson shows serious problems in the shadows)

Linear-Linear plot of Scanner Values versus CIE L*



The LinoColor Saphir Ultra appears to be in pretty good agreement with L*

The Microtek E6 is close, but appears to have some teaking or errors

The AGFS Duoscan appears to have a lower gamma (1.8?)

The Epson ES1000C and the UMAX SuperVista S-12 both appear to be linear devices (gamma = 1.0)