

Colorimetric "Standard data": Colorimetric data of Natural Colour System NCS18 for CIE lightness L*=18 of black for D65

System NCS18	Color	r=olv*1	g=olv*2	b=olv*3	L*=LAB*1	a*=LAB*2	b*=LAB*3	C*ab=LAB*r	h _{ab}	X=XYZ ₁	Y=XYZ ₂	Z=XYZ ₃	x	y	Y/88.59
NCS-System	00 Y00R	1.0	1.0	0.0	90.76	-0.82	124.09	124.09	90	73.69	77.96	2.94	0.4767	0.5043	0.88
	01 Y05R	1.0	0.95	0.0	89.83	5.6	122.81	122.94	87	74.86	75.94	2.89	0.4871	0.4941	0.8572
	02 Y10R	1.0	0.9	0.0	87.77	12.49	120.61	121.25	84	73.89	71.58	2.7	0.4987	0.4831	0.808
	03 Y15R	1.0	0.85	0.0	84.58	19.29	116.34	117.93	81	70.6	65.19	2.53	0.5104	0.4713	0.7359
	04 Y20R	1.0	0.8	0.0	80.98	25.51	110.3	113.22	77	66.34	58.43	2.51	0.5212	0.4591	0.6596
	05 Y25R	1.0	0.75	0.0	77.79	31.16	104.74	109.27	73	62.77	52.86	2.52	0.5313	0.4474	0.5967
	06 Y30R	1.0	0.7	0.0	74.98	36.13	100.39	106.7	70	59.74	48.25	2.45	0.5409	0.4369	0.5447
	07 Y35R	1.0	0.65	0.0	72.28	40.31	96.43	104.52	67	56.66	44.07	2.36	0.5496	0.4275	0.4975
	08 Y40R	1.0	0.6	0.0	69.7	43.96	92.22	102.16	65	53.7	40.33	2.33	0.5573	0.4185	0.4552
	09 Y45R	1.0	0.55	0.0	67.39	47.46	87.59	99.62	62	51.23	37.15	2.42	0.5642	0.4092	0.4194
	10 Y50R	1.0	0.5	0.0	65.32	51.18	83.49	97.93	58	49.28	34.45	2.48	0.5716	0.3996	0.3889
	11 Y55R	1.0	0.45	0.0	63.4	55.23	80.36	97.51	56	47.74	32.07	2.46	0.5803	0.3898	0.362
	12 Y60R	1.0	0.4	0.0	61.57	59.15	77.68	97.63	53	46.33	29.9	2.4	0.5892	0.3803	0.3375
	13 Y65R	1.0	0.35	0.0	59.77	62.58	74.78	97.51	50	44.81	27.87	2.37	0.5971	0.3713	0.3145
	14 Y70R	1.0	0.3	0.0	57.94	65.66	71.17	96.83	47	43.18	25.9	2.43	0.6038	0.3622	0.2924
	15 Y75R	1.0	0.25	0.0	56.04	68.55	66.17	95.28	44	41.41	23.95	2.66	0.6088	0.3521	0.2703
	16 Y80R	1.0	0.2	0.0	54.06	71.0	60.95	93.58	41	39.46	22.03	2.92	0.6126	0.3421	0.2487
	17 Y85R	1.0	0.25	0.0	52.0	72.9	56.6	92.29	38	37.27	20.14	3.03	0.6166	0.3332	0.2274
	18 Y90R	1.0	0.1	0.0	49.88	74.57	51.67	90.72	35	35.05	18.32	3.23	0.6192	0.3237	0.2068
	19 Y95R	1.0	0.05	0.0	47.78	76.51	45.35	88.94	31	33.0	16.62	3.67	0.6192	0.3119	0.1876
	20 R00B	1.0	0.0	0.0	45.83	77.83	36.96	86.16	25	31.04	15.14	4.59	0.6113	0.2982	0.1709
	21 R05B	1.0	0.0	0.1	44.25	78.82	27.82	83.59	19	29.5	14.01	5.99	0.5959	0.2831	0.1582
	22 R10B	1.0	0.0	0.2	43.21	80.67	19.25	82.93	13	28.81	13.3	7.74	0.578	0.2668	0.1501
	23 R15B	1.0	0.0	0.3	42.66	83.2	10.83	83.9	7	28.85	12.93	10.02	0.5569	0.2496	0.146
	24 R20B	1.0	0.0	0.4	42.27	86.82	1.66	86.83	1	29.35	12.67	13.13	0.5322	0.2298	0.1431
	25 R25B	1.0	0.0	0.5	41.87	87.68	-8.59	88.11	354	29.14	12.42	17.33	0.4948	0.2109	0.1402
	26 R30B	1.0	0.0	0.6	41.76	90.24	-19.98	92.42	348	29.68	12.35	23.27	0.4545	0.1891	0.1394
	27 R35B	1.0	0.0	0.7	42.19	96.59	-33.99	102.4	341	31.88	12.62	32.99	0.4114	0.1629	0.1425
	28 R40B	1.0	0.0	0.8	42.86	101.66	-48.43	112.61	335	34.12	13.06	45.86	0.3667	0.1404	0.1475
	29 R45B	1.0	0.0	0.9	43.53	104.52	-61.51	121.28	330	35.8	13.51	60.2	0.3269	0.1234	0.1525
	30 R50B	1.0	0.0	1.0	44.24	104.14	-73.11	127.24	325	36.61	14.0	75.44	0.2904	0.1111	0.1581
	31 R55B	0.9	0.0	1.0	45.02	97.88	-82.53	128.04	320	35.74	14.56	90.08	0.2546	0.1037	0.1643
	32 R60B	0.8	0.0	1.0	45.88	86.67	-89.0	124.24	314	33.56	15.18	102.02	0.2226	0.1007	0.1714
	33 R65B	0.7	0.0	1.0	46.69	70.9	-89.55	114.23	308	30.18	15.78	105.08	0.1998	0.1045	0.1782
	34 R70B	0.6	0.0	1.0	47.57	56.7	-88.65	105.25	303	27.5	16.46	106.08	0.1833	0.1097	0.1858
	35 R75B	0.5	0.0	1.0	48.47	43.85	-87.95	98.28	296	25.32	17.17	107.43	0.1689	0.1145	0.1938
	36 R80B	0.4	0.0	1.0	49.29	30.84	-86.64	91.97	290	23.15	17.83	107.61	0.1558	0.12	0.2013
	37 R85B	0.3	0.0	1.0	50.08	16.7	-83.29	84.95	281	20.84	18.49	104.41	0.145	0.1286	0.2087
	38 R90B	0.2	0.0	1.0	51.11	2.21	-78.01	78.05	272	18.83	19.36	98.95	0.1373	0.1412	0.2186
	39 R95B	0.1	0.0	1.0	52.44	-11.62	-71.57	72.52	261	17.3	20.54	92.74	0.1325	0.1573	0.2319
	40 B00G	0.0	0.0	1.0	53.84	-24.65	-65.25	69.76	249	16.05	21.82	87.11	0.1284	0.1746	0.2463
	41 B05G	0.0	0.1	1.0	55.11	-36.67	-58.85	69.36	238	14.94	23.04	81.33	0.1252	0.1931	0.26
	42 B10G	0.0	0.2	1.0	56.28	-47.82	-53.65	71.88	228	13.95	24.19	77.12	0.121	0.2099	0.2731
	43 B15G	0.0	0.3	1.0	57.35	-56.7	-48.82	74.83	221	13.28	25.28	73.29	0.1187	0.226	0.2853
	44 B20G	0.0	0.4	1.0	58.33	-63.79	-44.2	77.62	215	12.85	26.31	69.7	0.118	0.2417	0.297
	45 B25G	0.0	0.5	1.0	59.23	-70.17	-39.8	80.69	210	12.47	27.27	66.29	0.1176	0.2572	0.3079
	46 B30G	0.0	0.6	1.0	60.02	-76.12	-35.81	84.14	205	12.1	28.14	63.26	0.1169	0.2719	0.3177
	47 B35G	0.0	0.7	1.0	60.74	-81.57	-32.21	87.71	202	11.76	28.95	60.62	0.1161	0.2857	0.3268
	48 B40G	0.0	0.8	1.0	61.4	-86.84	-28.72	91.47	198	11.43	29.71	58.06	0.1152	0.2995	0.3353
	49 B45G	0.0	0.9	1.0	62.02	-92.35	-25.09	95.71	195	11.03	30.42	55.34	0.114	0.3143	0.3434

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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Standard data": Colorimetric data of Natural Colour System NCS18 for CIE lightness L*=18 of black for D65

System NCS18
NCS-System

Color	r=olv* ₁	g=olv* ₂	b=olv* ₃	L*=LAB* ₁	a*=LAB* ₂	b*=LAB* ₃	C* _{ab} =LAB* _r	h _{ab}	X=XYZ ₁	Y=XYZ ₂	Z=XYZ ₃	x	y	Y/88.59
50 B50G	0.0	1.0	1.0	62.54	-96.75	-21.46	99.11	193	10.75	31.04	52.56	0.1139	0.329	0.3503
51 B55G	0.0	1.0	0.9	62.91	-99.44	-18.09	101.08	190	10.6	31.48	49.85	0.1153	0.3424	0.3553
52 B60G	0.0	1.0	0.8	63.16	-102.05	-14.92	103.15	188	10.4	31.78	47.25	0.1163	0.3554	0.3588
53 B65G	0.0	1.0	0.7	63.32	-106.59	-11.72	107.24	186	9.91	31.98	44.57	0.1146	0.3699	0.361
54 B70G	0.0	1.0	0.6	63.48	-111.9	-8.25	112.22	184	9.33	32.16	41.74	0.1121	0.3864	0.363
55 B75G	0.0	1.0	0.5	63.63	-116.1	-4.46	116.2	182	8.91	32.35	38.77	0.1113	0.4042	0.3651
56 B80G	0.0	1.0	0.4	63.79	-119.89	-0.52	119.9	180	8.55	32.54	35.84	0.1111	0.423	0.3673
57 B85G	0.0	1.0	0.3	63.92	-123.02	3.68	123.09	178	8.26	32.7	32.83	0.1119	0.4432	0.3692
58 B90G	0.0	1.0	0.2	64.1	-125.73	9.91	126.13	175	8.04	32.93	28.67	0.1155	0.4728	0.3717
59 B95G	0.0	1.0	0.1	64.48	-126.58	20.17	128.19	171	8.13	33.4	22.7	0.1266	0.52	0.377
60 G00Y	0.0	1.0	0.0	65.0	-126.76	34.09	131.27	165	8.36	34.04	16.01	0.1431	0.5828	0.3843
61 G05Y	0.05	1.0	0.0	65.61	-114.79	46.12	123.72	158	10.12	34.82	11.52	0.1792	0.6168	0.3931
62 G10Y	0.1	1.0	0.0	66.33	-101.38	56.42	116.03	151	12.38	35.75	8.51	0.2186	0.6311	0.4036
63 G15Y	0.15	1.0	0.0	67.22	-89.66	67.6	112.29	143	14.8	36.92	5.95	0.2567	0.6402	0.4167
64 G20Y	0.2	1.0	0.0	68.29	-77.98	77.28	109.79	135	17.66	38.36	4.29	0.2928	0.6361	0.433
65 G25Y	0.25	1.0	0.0	69.61	-67.53	83.74	107.59	129	20.83	40.2	3.55	0.3226	0.6225	0.4538
66 G30Y	0.3	1.0	0.0	71.2	-59.24	90.53	108.2	123	24.13	42.48	2.91	0.3471	0.611	0.4796
67 G35Y	0.35	1.0	0.0	73.03	-51.61	95.09	108.2	118	27.86	45.22	2.71	0.3676	0.5966	0.5104
68 G40Y	0.4	1.0	0.0	75.09	-45.29	99.63	109.45	114	31.86	48.43	2.58	0.3845	0.5844	0.5467
69 G45Y	0.45	1.0	0.0	77.34	-40.25	103.85	111.38	111	36.09	52.1	2.53	0.3978	0.5743	0.5881
70 G50Y	0.5	1.0	0.0	79.64	-36.3	107.57	113.53	109	40.4	56.05	2.56	0.408	0.5661	0.6327
71 G55Y	0.55	1.0	0.0	81.87	-33.12	110.69	115.54	107	44.66	60.06	2.66	0.4159	0.5593	0.6779
72 G60Y	0.6	1.0	0.0	83.85	-30.36	113.54	117.53	105	48.67	63.78	2.74	0.4225	0.5537	0.72
73 G65Y	0.65	1.0	0.0	85.49	-27.59	116.24	119.47	103	52.35	66.97	2.76	0.4288	0.5486	0.756
74 G70Y	0.7	1.0	0.0	86.85	-24.81	118.69	121.26	102	55.73	69.7	2.74	0.4348	0.5438	0.7867
75 G75Y	0.75	1.0	0.0	87.98	-21.86	120.86	122.82	100	58.91	72.02	2.71	0.4408	0.5389	0.8129
76 G80Y	0.8	1.0	0.0	88.88	-18.65	122.5	123.92	99	61.91	73.92	2.7	0.4469	0.5336	0.8344
77 G85Y	0.85	1.0	0.0	89.56	-15.09	123.9	124.82	97	64.73	75.36	2.67	0.4534	0.5279	0.8507
78 G90Y	0.9	1.0	0.0	90.16	-11.07	124.88	125.38	95	67.68	76.64	2.68	0.4604	0.5214	0.8651
79 G95Y	0.95	1.0	0.0	90.7	-6.37	124.91	125.07	93	70.93	77.83	2.8	0.468	0.5135	0.8785
80 Y00R	0.0	1.0	0.0	90.76	-0.82	124.09	124.09	90	73.69	77.96	2.94	0.4767	0.5043	0.88
81 9500	1.0	1.0	1.0	18.31	0.0	0.0	0.01	0	2.46	2.59	2.82	0.3127	0.329	0.0292
82 9000	0.944	0.944	0.944	25.26	0.0	0.0	0.01	347	4.28	4.5	4.9	0.3127	0.329	0.0508
83 8500	0.889	0.889	0.889	30.78	0.0	0.0	0.01	104	6.23	6.56	7.14	0.3127	0.329	0.074
84 8000	0.833	0.833	0.833	35.53	0.0	0.0	0.01	9	8.33	8.77	9.55	0.3127	0.329	0.099
85 7500	0.778	0.778	0.778	39.83	0.0	0.0	0.01	324	10.6	11.15	12.14	0.3127	0.329	0.1259
86 7000	0.722	0.722	0.722	43.84	0.01	0.0	0.01	6	13.05	13.73	14.95	0.3127	0.329	0.155
87 6500	0.667	0.667	0.667	47.65	0.01	0.0	0.01	162	15.7	16.52	17.99	0.3127	0.329	0.1865
88 6000	0.611	0.611	0.611	51.35	0.01	0.0	0.01	166	18.6	19.57	21.31	0.3127	0.329	0.2209
89 5500	0.556	0.556	0.556	54.97	0.01	0.0	0.02	11	21.77	22.9	24.94	0.3127	0.329	0.2585
90 5000	0.5	0.5	0.5	58.56	0.01	0.0	0.02	21	25.24	26.56	28.92	0.3127	0.329	0.2998
91 4500	0.444	0.444	0.444	62.17	0.01	0.0	0.02	101	29.08	30.6	33.32	0.3127	0.329	0.3454
92 4000	0.389	0.389	0.389	65.81	0.01	0.0	0.02	153	33.34	35.08	38.2	0.3127	0.329	0.396
93 3500	0.333	0.333	0.333	69.52	0.01	0.0	0.02	100	38.08	40.07	43.64	0.3127	0.329	0.4523
94 3000	0.278	0.278	0.278	73.33	0.01	0.0	0.02	300	43.41	45.68	49.74	0.3127	0.329	0.5156
95 2500	0.222	0.222	0.222	77.29	0.01	0.0	0.02	162	49.43	52.01	56.64	0.3127	0.329	0.5871
96 2000	0.167	0.167	0.167	81.42	0.01	0.0	0.02	154	56.31	59.24	64.52	0.3127	0.329	0.6687
97 1500	0.111	0.111	0.111	85.78	0.01	0.0	0.02	165	64.2	67.55	73.56	0.3127	0.329	0.7625
98 1000	0.056	0.056	0.056	90.42	0.01	0.0	0.02	132	73.39	77.21	84.09	0.3127	0.329	0.8716
99 0500	0.0	0.0	0.0	95.41	0.01	-0.01	0.02	0	84.2	88.59	96.48	0.3127	0.329	1.0

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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Colorimetric "Standard data": Colorimetric data of Natural Colour System NCS18 for CIE lightness $L^*=18$ of black for D65

System NCS18
NCS-System

J Yellow

$LCH^* = 90.8 \ 124.1 \ 90$

$LAB^* = 90.8 \ -0.8 \ 124.1$

G Green

$LCH^* = 65.0 \ 131.3 \ 165$

$LAB^* = 65.0 \ -126.8 \ 34.1$

R Red

$LCH^* = 45.8 \ 86.2 \ 25$

$LAB^* = 45.8 \ 77.8 \ 37.0$

C_e Cyan_e

$LCH^* = 62.5 \ 99.1 \ 193$

$LAB^* = 62.5 \ -96.8 \ -21.5$

B Blue

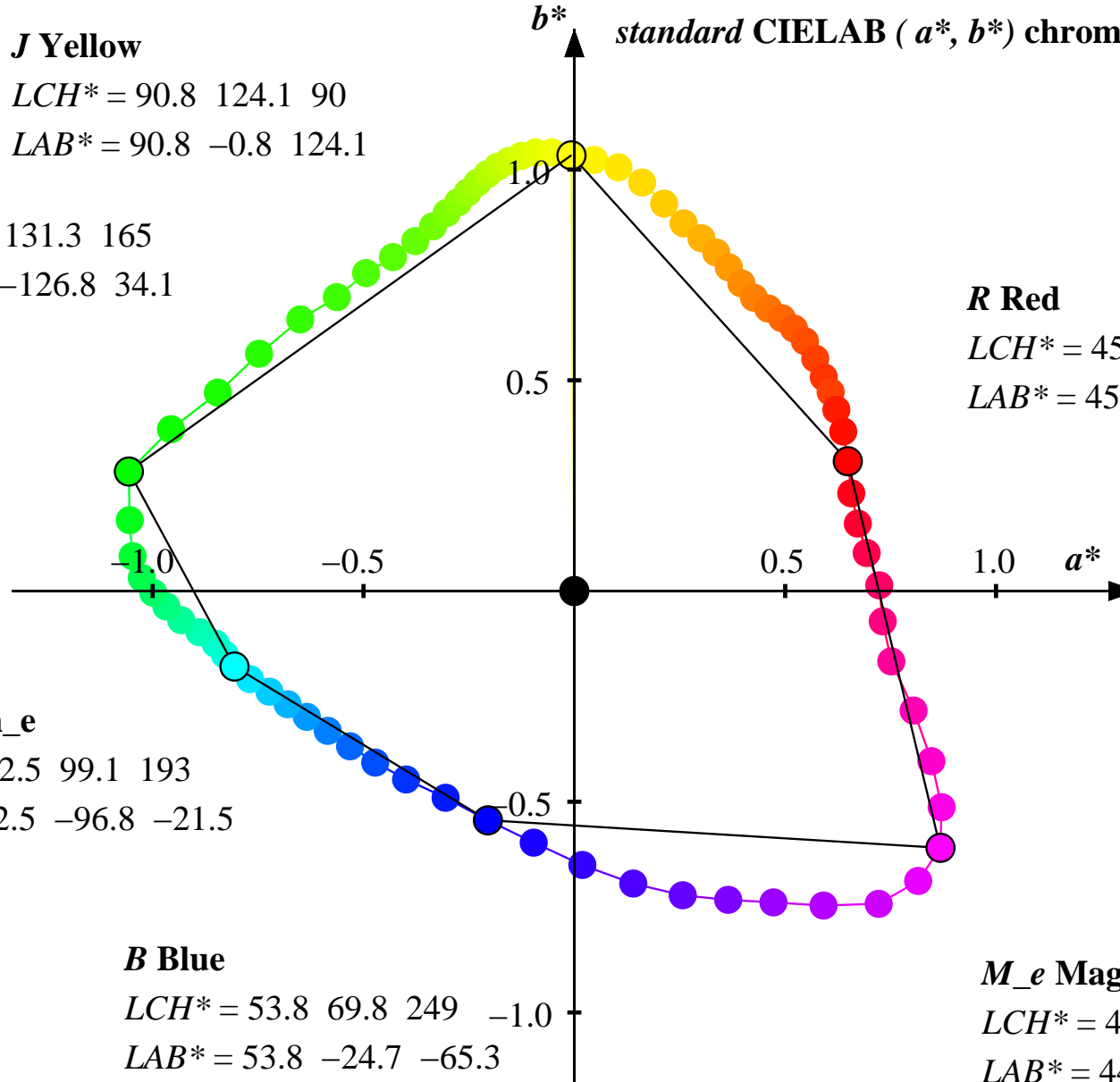
$LCH^* = 53.8 \ 69.8 \ 249 \ -1.0$

$LAB^* = 53.8 \ -24.7 \ -65.3$

M_e Magenta_e

$LCH^* = 44.2 \ 127.2 \ 325$

$LAB^* = 44.2 \ 104.1 \ -73.1$



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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Colour System NCS18a for CIE lightness L*=18 of black for D65

System NCS18a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ra	h _{ab,a}	X _a =XYZ1a	Y _a =XYZ2a	Z _a =XYZ3a	x _a	y _a	Y _a /88.59
NCS-System	00 Y00R	1.0	1.0	0.0	90.76	-0.83	124.1	124.11	90	73.69	77.96	2.94	0.4767	0.5043	0.88
	01 Y05R	1.0	0.95	0.0	89.83	5.59	122.82	122.95	87	74.86	75.94	2.89	0.4871	0.4941	0.8572
	02 Y10R	1.0	0.9	0.0	87.77	12.49	120.62	121.27	84	73.88	71.58	2.69	0.4987	0.4831	0.808
	03 Y15R	1.0	0.85	0.0	84.58	19.28	116.35	117.94	81	70.6	65.19	2.53	0.5104	0.4713	0.7359
	04 Y20R	1.0	0.8	0.0	80.98	25.51	110.32	113.23	77	66.33	58.43	2.51	0.5212	0.4591	0.6596
	05 Y25R	1.0	0.75	0.0	77.79	31.15	104.75	109.28	73	62.77	52.86	2.51	0.5313	0.4474	0.5967
	06 Y30R	1.0	0.7	0.0	74.98	36.13	100.4	106.71	70	59.74	48.25	2.45	0.5409	0.4369	0.5447
	07 Y35R	1.0	0.65	0.0	72.28	40.31	96.44	104.53	67	56.65	44.07	2.36	0.5496	0.4275	0.4975
	08 Y40R	1.0	0.6	0.0	69.7	43.95	92.23	102.17	65	53.7	40.33	2.33	0.5573	0.4185	0.4552
	09 Y45R	1.0	0.55	0.0	67.39	47.46	87.6	99.63	62	51.23	37.15	2.41	0.5642	0.4092	0.4194
	10 Y50R	1.0	0.5	0.0	65.32	51.17	83.5	97.93	58	49.28	34.45	2.48	0.5716	0.3996	0.3889
	11 Y55R	1.0	0.45	0.0	63.4	55.22	80.37	97.51	56	47.74	32.07	2.46	0.5803	0.3898	0.362
	12 Y60R	1.0	0.4	0.0	61.57	59.14	77.69	97.64	53	46.32	29.9	2.4	0.5892	0.3803	0.3375
	13 Y65R	1.0	0.35	0.0	59.77	62.57	74.79	97.51	50	44.81	27.87	2.37	0.5971	0.3713	0.3145
	14 Y70R	1.0	0.3	0.0	57.94	65.65	71.18	96.83	47	43.18	25.9	2.43	0.6038	0.3622	0.2924
	15 Y75R	1.0	0.25	0.0	56.04	68.54	66.18	95.28	44	41.41	23.95	2.66	0.6088	0.3521	0.2703
	16 Y80R	1.0	0.2	0.0	54.06	71.0	60.96	93.58	41	39.46	22.03	2.92	0.6126	0.3421	0.2487
	17 Y85R	1.0	0.25	0.0	52.0	72.89	56.61	92.29	38	37.27	20.14	3.03	0.6166	0.3332	0.2274
	18 Y90R	1.0	0.1	0.0	49.88	74.56	51.68	90.72	35	35.05	18.32	3.23	0.6192	0.3237	0.2068
	19 Y95R	1.0	0.05	0.0	47.78	76.51	45.36	88.94	31	33.0	16.62	3.67	0.6192	0.3119	0.1876
	20 R00B	1.0	0.0	0.0	45.83	77.82	36.97	86.16	25	31.04	15.14	4.59	0.6113	0.2982	0.1709
	21 R05B	1.0	0.0	0.1	44.25	78.82	27.83	83.59	19	29.5	14.01	5.99	0.5959	0.2831	0.1582
	22 R10B	1.0	0.0	0.2	43.21	80.66	19.26	82.93	13	28.81	13.3	7.73	0.578	0.2668	0.1501
	23 R15B	1.0	0.0	0.3	42.66	83.19	10.83	83.89	7	28.85	12.93	10.02	0.5569	0.2496	0.146
	24 R20B	1.0	0.0	0.4	42.27	86.81	1.67	86.83	1	29.35	12.67	13.12	0.5322	0.2298	0.1431
	25 R25B	1.0	0.0	0.5	41.87	87.68	-8.59	88.1	354	29.14	12.42	17.33	0.4948	0.2109	0.1402
	26 R30B	1.0	0.0	0.6	41.76	90.23	-19.97	92.42	348	29.68	12.35	23.27	0.4545	0.1891	0.1394
	27 R35B	1.0	0.0	0.7	42.19	96.58	-33.98	102.39	341	31.88	12.62	32.98	0.4114	0.1629	0.1425
	28 R40B	1.0	0.0	0.8	42.86	101.65	-48.42	112.6	335	34.12	13.06	45.85	0.3667	0.1404	0.1475
	29 R45B	1.0	0.0	0.9	43.53	104.51	-61.5	121.27	330	35.8	13.51	60.19	0.3269	0.1234	0.1525
	30 R50B	1.0	0.0	1.0	44.24	104.13	-73.1	127.23	325	36.6	14.0	75.43	0.2904	0.1111	0.1581
	31 R55B	0.9	0.0	1.0	45.02	97.87	-82.53	128.03	320	35.74	14.56	90.07	0.2546	0.1037	0.1643
	32 R60B	0.8	0.0	1.0	45.88	86.67	-89.0	124.23	314	33.56	15.18	102.0	0.2226	0.1007	0.1714
	33 R65B	0.7	0.0	1.0	46.69	70.9	-89.54	114.22	308	30.18	15.78	105.07	0.1998	0.1045	0.1782
	34 R70B	0.6	0.0	1.0	47.57	56.7	-88.65	105.24	303	27.5	16.46	106.07	0.1833	0.1097	0.1858
	35 R75B	0.5	0.0	1.0	48.47	43.85	-87.94	98.27	296	25.32	17.17	107.42	0.1689	0.1145	0.1938
	36 R80B	0.4	0.0	1.0	49.29	30.83	-86.63	91.96	290	23.15	17.83	107.59	0.1558	0.12	0.2013
	37 R85B	0.3	0.0	1.0	50.08	16.69	-83.28	84.94	281	20.84	18.49	104.4	0.145	0.1286	0.2087
	38 R90B	0.2	0.0	1.0	51.11	2.21	-78.0	78.04	272	18.83	19.36	98.94	0.1373	0.1412	0.2186
	39 R95B	0.1	0.0	1.0	52.44	-11.63	-71.56	72.51	261	17.3	20.54	92.73	0.1325	0.1573	0.2319
	40 B00G	0.0	0.0	1.0	53.84	-24.66	-65.24	69.76	249	16.05	21.82	87.09	0.1284	0.1746	0.2463
	41 B05G	0.0	0.1	1.0	55.11	-36.68	-58.84	69.35	238	14.94	23.04	81.32	0.1252	0.1931	0.26
	42 B10G	0.0	0.2	1.0	56.28	-47.82	-53.64	71.88	228	13.95	24.19	77.11	0.121	0.2099	0.2731
	43 B15G	0.0	0.3	1.0	57.35	-56.7	-48.81	74.83	221	13.28	25.28	73.28	0.1187	0.226	0.2853
	44 B20G	0.0	0.4	1.0	58.33	-63.79	-44.19	77.62	215	12.84	26.31	69.69	0.118	0.2417	0.297
	45 B25G	0.0	0.5	1.0	59.23	-70.17	-39.79	80.69	210	12.47	27.27	66.28	0.1176	0.2572	0.3079
	46 B30G	0.0	0.6	1.0	60.02	-76.13	-35.8	84.14	205	12.1	28.14	63.25	0.1169	0.2719	0.3177
	47 B35G	0.0	0.7	1.0	60.74	-81.58	-32.2	87.71	202	11.76	28.95	60.6	0.1161	0.2857	0.3268
	48 B40G	0.0	0.8	1.0	61.4	-86.84	-28.71	91.48	198	11.43	29.71	58.04	0.1152	0.2995	0.3353
	49 B45G	0.0	0.9	1.0	62.02	-92.35	-25.08	95.71	195	11.03	30.42	55.33	0.114	0.3143	0.3434

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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
application for measurement of printer or monitor systems
TUB material: code=rha4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Colour System NCS00a for CIE lightness L*=00 of black for D65

System NCS00a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ra	h _{ab,a}	X _a =XYZ _{1a}	Y _a =XYZ _{2a}	Z _a =XYZ _{3a}	x _a	y _a	Y _a /88.59
NCS-System	50 B50G	0.0	1.0	1.0	62.54	-96.76	-21.45	99.12	193	10.74	31.04	52.54	0.1139	0.329	0.3503
	51 B55G	0.0	1.0	0.9	62.91	-99.44	-18.08	101.09	190	10.6	31.48	49.84	0.1153	0.3424	0.3553
	52 B60G	0.0	1.0	0.8	63.16	-102.06	-14.91	103.15	188	10.4	31.78	47.24	0.1163	0.3554	0.3588
	53 B65G	0.0	1.0	0.7	63.32	-106.6	-11.71	107.25	186	9.91	31.98	44.56	0.1146	0.3699	0.361
	54 B70G	0.0	1.0	0.6	63.48	-111.91	-8.24	112.22	184	9.33	32.16	41.73	0.1121	0.3864	0.363
	55 B75G	0.0	1.0	0.5	63.63	-116.11	-4.45	116.2	182	8.91	32.35	38.76	0.1113	0.4042	0.3651
	56 B80G	0.0	1.0	0.4	63.79	-119.9	-0.51	119.91	180	8.55	32.54	35.83	0.1111	0.4231	0.3673
	57 B85G	0.0	1.0	0.3	63.92	-123.03	3.69	123.1	178	8.26	32.7	32.82	0.1119	0.4433	0.3692
	58 B90G	0.0	1.0	0.2	64.1	-125.74	9.92	126.14	175	8.04	32.93	28.67	0.1155	0.4729	0.3717
	59 B95G	0.0	1.0	0.1	64.48	-126.59	20.18	128.19	171	8.13	33.4	22.69	0.1266	0.5201	0.377
	60 G00Y	0.0	1.0	0.0	65.0	-126.77	34.1	131.23	165	8.36	34.04	16.01	0.1431	0.5829	0.3843
	61 G05Y	0.05	1.0	0.0	65.61	-114.8	46.13	123.73	158	10.12	34.82	11.51	0.1792	0.6169	0.3931
	62 G10Y	0.1	1.0	0.0	66.33	-101.38	56.43	116.04	151	12.38	35.75	8.51	0.2186	0.6311	0.4036
	63 G15Y	0.15	1.0	0.0	67.22	-89.67	67.61	112.31	143	14.8	36.92	5.94	0.2567	0.6402	0.4167
	64 G20Y	0.2	1.0	0.0	68.29	-77.99	77.29	109.81	135	17.66	38.36	4.29	0.2928	0.6361	0.433
	65 G25Y	0.25	1.0	0.0	69.61	-67.54	83.75	107.6	129	20.83	40.2	3.54	0.3226	0.6225	0.4538
	66 G30Y	0.3	1.0	0.0	71.2	-59.25	90.54	108.21	123	24.13	42.48	2.91	0.3471	0.611	0.4796
	67 G35Y	0.35	1.0	0.0	73.03	-51.62	95.1	108.21	118	27.86	45.22	2.71	0.3676	0.5966	0.5104
	68 G40Y	0.4	1.0	0.0	75.09	-45.3	99.65	109.46	114	31.86	48.43	2.58	0.3845	0.5844	0.5467
	69 G45Y	0.45	1.0	0.0	77.34	-40.26	103.87	111.4	111	36.09	52.1	2.53	0.3978	0.5743	0.5881
	70 G50Y	0.5	1.0	0.0	79.64	-36.31	107.58	113.55	109	40.39	56.05	2.56	0.408	0.5661	0.6327
	71 G55Y	0.55	1.0	0.0	81.87	-33.13	110.7	115.55	107	44.66	60.06	2.66	0.4159	0.5593	0.6779
	72 G60Y	0.6	1.0	0.0	83.85	-30.37	113.55	117.55	105	48.67	63.78	2.74	0.4225	0.5537	0.72
	73 G65Y	0.65	1.0	0.0	85.49	-27.6	116.25	119.49	103	52.35	66.97	2.76	0.4288	0.5486	0.756
	74 G70Y	0.7	1.0	0.0	86.85	-24.81	118.71	121.28	102	55.72	69.7	2.74	0.4348	0.5438	0.7867
	75 G75Y	0.75	1.0	0.0	87.98	-21.87	120.87	122.83	100	58.9	72.02	2.71	0.4408	0.5389	0.8129
	76 G80Y	0.8	1.0	0.0	88.88	-18.66	122.52	123.93	99	61.91	73.92	2.7	0.4469	0.5336	0.8344
	77 G85Y	0.85	1.0	0.0	89.56	-15.1	123.92	124.83	97	64.72	75.36	2.67	0.4534	0.5279	0.8507
	78 G90Y	0.9	1.0	0.0	90.16	-11.08	124.9	125.39	95	67.67	76.64	2.67	0.4604	0.5214	0.8651
	79 G95Y	0.95	1.0	0.0	90.7	-6.38	124.92	125.08	93	70.93	77.83	2.8	0.468	0.5135	0.8785
	80 Y00R	0.0	1.0	0.0	90.76	-0.83	124.1	124.11	90	73.69	77.96	2.94	0.4767	0.5043	0.88
	81 9500	1.0	1.0	1.0	18.31	0.0	0.0	0.01	0	2.46	2.59	2.82	0.3127	0.329	0.0292
	82 9000	0.944	0.944	0.944	25.26	0.0	0.0	0.01	347	4.28	4.5	4.9	0.3127	0.329	0.0508
	83 8500	0.889	0.889	0.889	30.78	0.0	0.0	0.01	104	6.23	6.56	7.14	0.3127	0.329	0.074
	84 8000	0.833	0.833	0.833	35.53	0.0	0.0	0.01	9	8.33	8.77	9.55	0.3127	0.329	0.099
	85 7500	0.778	0.778	0.778	39.83	0.0	0.0	0.01	324	10.6	11.15	12.14	0.3127	0.329	0.1259
	86 7000	0.722	0.722	0.722	43.84	0.0	0.0	0.01	6	13.05	13.73	14.95	0.3127	0.329	0.155
	87 6500	0.667	0.667	0.667	47.65	0.0	0.0	0.01	162	15.7	16.52	17.99	0.3127	0.329	0.1865
	88 6000	0.611	0.611	0.611	51.35	0.0	0.0	0.01	166	18.6	19.57	21.31	0.3127	0.329	0.2209
	89 5500	0.556	0.556	0.556	54.97	0.0	0.0	0.01	11	21.77	22.9	24.94	0.3127	0.329	0.2585
	90 5000	0.5	0.5	0.5	58.56	0.0	0.0	0.01	21	25.24	26.56	28.91	0.3127	0.329	0.2998
	91 4500	0.444	0.444	0.444	62.17	0.0	0.0	0.01	101	29.08	30.6	33.31	0.3127	0.329	0.3454
	92 4000	0.389	0.389	0.389	65.81	0.0	0.0	0.01	153	33.34	35.08	38.19	0.3127	0.329	0.396
	93 3500	0.333	0.333	0.333	69.52	0.0	0.0	0.01	100	38.08	40.07	43.63	0.3127	0.329	0.4523
	94 3000	0.278	0.278	0.278	73.33	0.0	0.0	0.01	300	43.41	45.68	49.73	0.3127	0.329	0.5156
	95 2500	0.222	0.222	0.222	77.29	0.0	0.0	0.01	162	49.43	52.01	56.63	0.3127	0.329	0.5871
	96 2000	0.167	0.167	0.167	81.42	0.0	0.0	0.01	154	56.3	59.24	64.5	0.3127	0.329	0.6687
	97 1500	0.111	0.111	0.111	85.78	0.0	0.0	0.01	165	64.2	67.55	73.55	0.3127	0.329	0.7625
	98 1000	0.056	0.056	0.056	90.42	0.0	0.0	0.01	132	73.38	77.21	84.07	0.3127	0.329	0.8716
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

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Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ra

Colorimetric "Adapted data (a)": Colorimetric data of Natural Colour System NCS00a for CIE lightness $L^*=00$ of black for D65

System NCS00a
NCS-System

J Yellow

$LCH^*_a = 90.8 \ 124.1 \ 90$

$LAB^*_a = 90.8 \ -0.8 \ 124.1$

G Green

$LCH^*_a = 65.0 \ 131.3 \ 165$

$LAB^*_a = 65.0 \ -126.8 \ 34.1$

R Red

$LCH^*_a = 45.8 \ 86.2 \ 25$

$LAB^*_a = 45.8 \ 77.8 \ 37.0$

C_e Cyan_e

$LCH^*_a = 62.5 \ 99.1 \ 193$

$LAB^*_a = 62.5 \ -96.8 \ -21.5$

B Blue

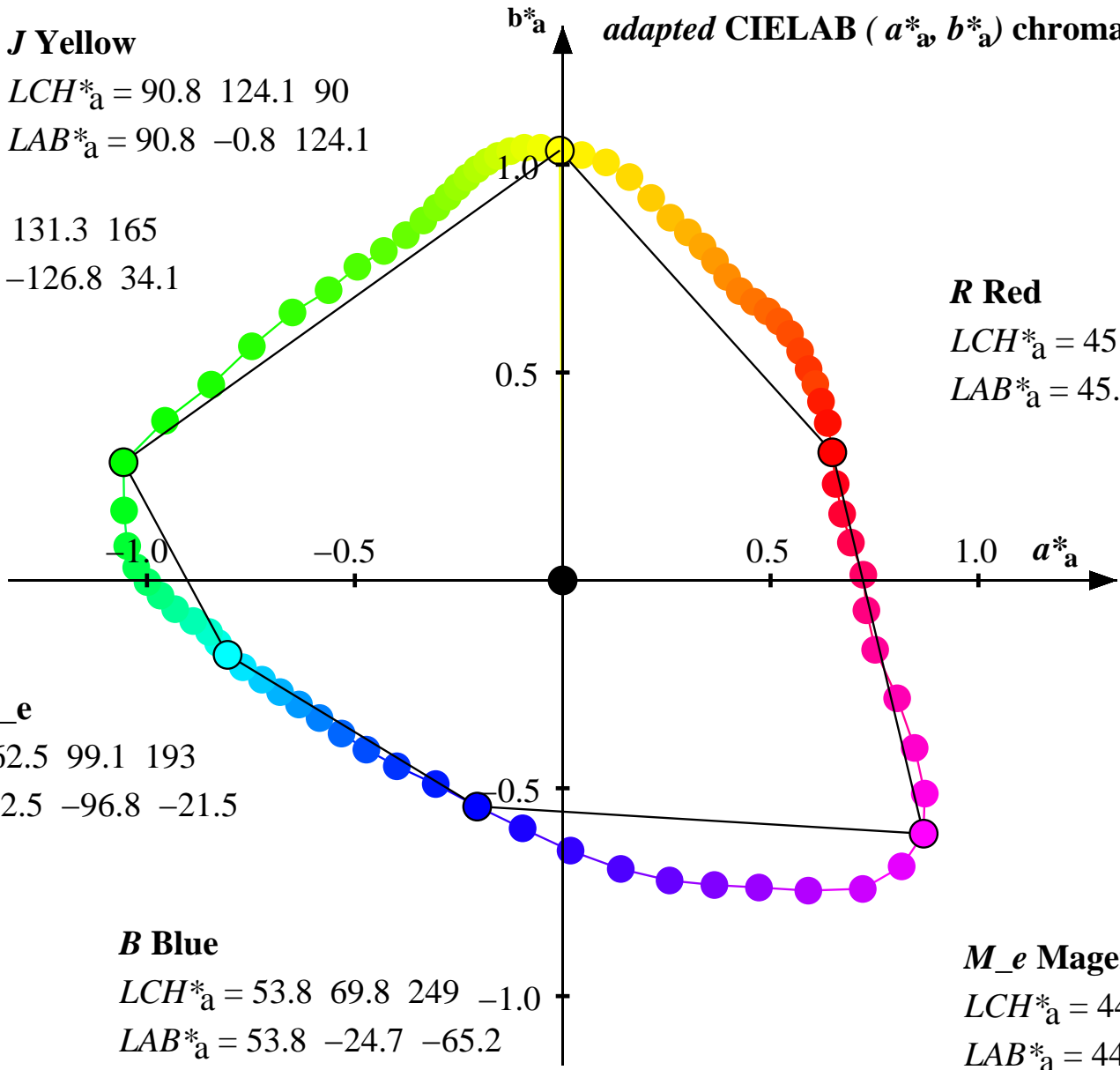
$LCH^*_a = 53.8 \ 69.8 \ 249 \ -1.0$

$LAB^*_a = 53.8 \ -24.7 \ -65.2$

M_e Magenta_e

$LCH^*_a = 44.2 \ 127.2 \ 325$

$LAB^*_a = 44.2 \ 104.1 \ -73.1$



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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Adapted data (a0)": Colorimetric data of Natural Colour System NCS00a for CIE lightness L*=00 of black for D65

System NCS00a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ab,a	h*ab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
NCS-System	00 Y00R	1.0	1.0	0.0	90.62	-0.86	154.51	154.51	90	73.37	77.64	0.12	0.4855	0.5137	0.8764
	01 Y05R	1.0	0.95	0.0	89.65	5.78	153.55	153.66	88	74.57	75.55	0.07	0.4965	0.503	0.8529
	02 Y10R	1.0	0.9	0.0	87.52	12.91	150.89	151.44	85	73.57	71.07	-0.12	0.5091	0.4918	0.8022
	03 Y15R	1.0	0.85	0.0	84.22	19.97	145.21	146.57	82	70.19	64.49	-0.29	0.5223	0.4799	0.728
	04 Y20R	1.0	0.8	0.0	80.47	26.48	138.75	141.25	79	65.8	57.53	-0.31	0.5349	0.4677	0.6493
	05 Y25R	1.0	0.75	0.0	77.15	32.41	133.02	136.91	76	62.12	51.78	-0.3	0.5469	0.4559	0.5845
	06 Y30R	1.0	0.7	0.0	74.22	37.68	127.96	133.39	74	59.0	47.04	-0.37	0.5584	0.4452	0.531
	07 Y35R	1.0	0.65	0.0	71.37	42.14	123.05	130.07	71	55.83	42.73	-0.46	0.5692	0.4357	0.4823
	08 Y40R	1.0	0.6	0.0	68.66	46.07	118.38	127.03	69	52.78	38.87	-0.49	0.579	0.4265	0.4388
	09 Y45R	1.0	0.55	0.0	66.22	49.88	114.17	124.59	66	50.23	35.61	-0.41	0.588	0.4168	0.4019
	10 Y50R	1.0	0.5	0.0	64.02	53.91	110.38	122.84	64	48.23	32.82	-0.34	0.5976	0.4067	0.3705
	11 Y55R	1.0	0.45	0.0	61.97	58.31	106.85	121.72	61	46.64	30.37	-0.36	0.6086	0.3962	0.3428
	12 Y60R	1.0	0.4	0.0	60.01	62.61	103.47	120.93	59	45.18	28.14	-0.42	0.6199	0.386	0.3176
	13 Y65R	1.0	0.35	0.0	58.07	66.41	100.13	120.15	56	43.62	26.04	-0.45	0.6304	0.3763	0.2939
	14 Y70R	1.0	0.3	0.0	56.1	69.88	96.73	119.33	54	41.94	24.02	-0.39	0.6398	0.3663	0.2711
	15 Y75R	1.0	0.25	0.0	54.03	73.22	93.15	118.48	52	40.12	22.0	-0.15	0.6475	0.3551	0.2484
	16 Y80R	1.0	0.2	0.0	51.87	76.15	87.99	116.36	49	38.11	20.03	0.1	0.6543	0.3439	0.2261
	17 Y85R	1.0	0.25	0.0	49.6	78.56	82.34	113.81	46	35.86	18.08	0.22	0.6621	0.3338	0.2041
	18 Y90R	1.0	0.1	0.0	47.24	80.82	75.38	110.52	43	33.57	16.21	0.42	0.6687	0.3229	0.1829
	19 Y95R	1.0	0.05	0.0	44.88	83.45	64.82	105.67	38	31.46	14.46	0.88	0.6723	0.309	0.1632
	20 R00B	1.0	0.0	0.0	42.66	85.46	49.92	98.97	30	29.44	12.93	1.83	0.6661	0.2926	0.1459
	21 R05B	1.0	0.0	0.1	40.85	87.08	35.88	94.18	22	27.85	11.77	3.27	0.6494	0.2744	0.1329
	22 R10B	1.0	0.0	0.2	39.64	89.46	24.0	92.62	15	27.14	11.03	5.06	0.6277	0.2552	0.1245
	23 R15B	1.0	0.0	0.3	38.99	92.4	13.12	93.33	8	27.18	10.65	7.42	0.6006	0.2354	0.1203
	24 R20B	1.0	0.0	0.4	38.53	96.46	1.97	96.48	1	27.7	10.39	10.62	0.5687	0.2133	0.1173
	25 R25B	1.0	0.0	0.5	38.07	97.57	-9.94	98.07	354	27.48	10.13	14.94	0.5229	0.1927	0.1143
	26 R30B	1.0	0.0	0.6	37.94	100.35	-22.67	102.88	347	28.03	10.05	21.06	0.4739	0.17	0.1135
	27 R35B	1.0	0.0	0.7	38.44	106.93	-37.8	113.42	341	30.3	10.34	31.07	0.4226	0.1441	0.1167
	28 R40B	1.0	0.0	0.8	39.23	112.0	-53.01	123.92	335	32.61	10.79	44.33	0.3717	0.123	0.1218
	29 R45B	1.0	0.0	0.9	40.01	114.72	-66.57	132.65	330	34.34	11.25	59.1	0.328	0.1075	0.127
	30 R50B	1.0	0.0	1.0	40.83	114.01	-78.48	138.42	325	35.17	11.76	74.8	0.2889	0.0966	0.1327
	31 R55B	0.9	0.0	1.0	41.73	107.06	-88.06	138.63	321	34.28	12.33	89.88	0.2512	0.0903	0.1392
	32 R60B	0.8	0.0	1.0	42.72	94.86	-94.55	133.94	315	32.03	12.97	102.17	0.2177	0.0881	0.1464
	33 R65B	0.7	0.0	1.0	43.64	77.79	-94.96	122.76	309	28.55	13.59	105.33	0.1936	0.0922	0.1534
	34 R70B	0.6	0.0	1.0	44.64	62.33	-93.87	112.69	304	25.8	14.29	106.36	0.1761	0.0976	0.1613
	35 R75B	0.5	0.0	1.0	45.66	48.28	-92.99	104.79	297	23.55	15.02	107.75	0.1609	0.1026	0.1695
	36 R80B	0.4	0.0	1.0	46.58	34.03	-91.51	97.64	290	21.31	15.7	107.93	0.147	0.1083	0.1772
	37 R85B	0.3	0.0	1.0	47.46	18.48	-87.94	89.87	282	18.93	16.38	104.64	0.1353	0.117	0.1848
	38 R90B	0.2	0.0	1.0	48.61	2.45	-82.35	82.4	272	16.86	17.28	99.01	0.1266	0.1298	0.1951
	39 R95B	0.1	0.0	1.0	50.09	-12.93	-75.54	76.65	260	15.29	18.49	92.62	0.121	0.1463	0.2088
	40 B00G	0.0	0.0	1.0	51.62	-27.44	-68.85	74.13	248	13.99	19.81	86.81	0.116	0.1642	0.2236
	41 B05G	0.0	0.1	1.0	53.02	-40.85	-62.11	74.35	237	12.85	21.06	80.86	0.112	0.1835	0.2378
	42 B10G	0.0	0.2	1.0	54.3	-53.33	-56.61	77.79	227	11.83	22.26	76.53	0.107	0.2012	0.2512
	43 B15G	0.0	0.3	1.0	55.45	-63.27	-51.51	81.6	219	11.14	23.37	72.58	0.104	0.2182	0.2638
	44 B20G	0.0	0.4	1.0	56.52	-71.18	-46.64	85.11	213	10.7	24.44	68.88	0.1028	0.2349	0.2758
	45 B25G	0.0	0.5	1.0	57.49	-78.29	-42.01	88.86	208	10.31	25.43	65.37	0.102	0.2515	0.287
	46 B30G	0.0	0.6	1.0	58.34	-84.95	-37.81	92.99	204	9.93	26.32	62.25	0.1008	0.2672	0.2971
	47 B35G	0.0	0.7	1.0	59.12	-91.05	-34.01	97.21	200	9.58	27.16	59.53	0.0996	0.2821	0.3065
	48 B40G	0.0	0.8	1.0	59.83	-96.97	-30.33	101.62	197	9.24	27.94	56.89	0.0982	0.297	0.3153
	49 B45G	0.0	0.9	1.0	60.49	-103.22	-26.51	106.58	194	8.83	28.67	54.09	0.0964	0.313	0.3237

n = 28.67 / (28.67 - 2.59) = 1.03

Colorimetric "Adapted data (a0)": Colorimetric data of Natural Colour System NCS00a0 for CIE lightness L*=00 of black for D65

System NCS00a0	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ab,a	h _{ab,a}	X _a =XYZ _{1a}	Y _a =XYZ _{2a}	Z _a =XYZ _{3a}	x _a	y _a	Y _a /88.59
NCS-System	50 B50G	0.0	1.0	1.0	61.05	-108.21	-22.7	110.57	192	8.53	29.31	51.22	0.0958	0.329	0.3308
	51 B55G	0.0	1.0	0.9	61.45	-111.23	-19.14	112.87	190	8.38	29.76	48.44	0.0968	0.3437	0.3359
	52 B60G	0.0	1.0	0.8	61.72	-114.23	-15.8	115.33	188	8.18	30.07	45.76	0.0974	0.358	0.3395
	53 B65G	0.0	1.0	0.7	61.89	-119.64	-12.43	120.3	186	7.67	30.27	42.99	0.0948	0.374	0.3417
	54 B70G	0.0	1.0	0.6	62.05	-126.07	-8.76	126.39	184	7.08	30.46	40.09	0.0912	0.3924	0.3439
	55 B75G	0.0	1.0	0.5	62.21	-131.19	-4.74	131.28	182	6.64	30.65	37.03	0.0893	0.4124	0.346
	56 B80G	0.0	1.0	0.4	62.38	-135.83	-0.54	135.84	180	6.27	30.85	34.01	0.0881	0.4338	0.3483
	57 B85G	0.0	1.0	0.3	62.53	-139.7	3.95	139.76	178	5.97	31.02	30.91	0.0879	0.4569	0.3502
	58 B90G	0.0	1.0	0.2	62.72	-143.0	10.66	143.41	176	5.75	31.25	26.63	0.0904	0.4912	0.3528
	59 B95G	0.0	1.0	0.1	63.13	-143.73	21.85	145.39	171	5.84	31.74	20.47	0.1006	0.5467	0.3583
	60 G00Y	0.0	1.0	0.0	63.67	-143.48	37.43	148.3	165	6.08	32.4	13.59	0.1167	0.6224	0.3658
	61 G05Y	0.05	1.0	0.0	64.33	-128.13	51.51	138.11	158	7.89	33.2	8.96	0.1576	0.6635	0.3748
	62 G10Y	0.1	1.0	0.0	65.09	-111.74	64.28	128.92	150	10.22	34.16	5.86	0.2034	0.6799	0.3856
	63 G15Y	0.15	1.0	0.0	66.03	-97.86	79.59	126.14	141	12.71	35.36	3.22	0.2478	0.6894	0.3992
	64 G20Y	0.2	1.0	0.0	67.16	-84.38	95.32	127.3	132	15.65	36.85	1.51	0.2898	0.6822	0.416
	65 G25Y	0.25	1.0	0.0	68.57	-72.52	107.53	129.7	124	18.93	38.75	0.75	0.324	0.6632	0.4374
	66 G30Y	0.3	1.0	0.0	70.24	-63.22	119.73	135.4	118	22.33	41.1	0.1	0.3515	0.647	0.4639
	67 G35Y	0.35	1.0	0.0	72.17	-54.77	124.43	135.95	114	26.16	43.91	-0.1	0.3739	0.6276	0.4957
	68 G40Y	0.4	1.0	0.0	74.33	-47.83	128.15	136.79	110	30.29	47.22	-0.24	0.392	0.6112	0.533
	69 G45Y	0.45	1.0	0.0	76.68	-42.32	132.21	138.82	108	34.64	51.0	-0.29	0.4059	0.5976	0.5757
	70 G50Y	0.5	1.0	0.0	79.08	-38.03	136.35	141.55	106	39.07	55.07	-0.25	0.4162	0.5866	0.6216
	71 G55Y	0.55	1.0	0.0	81.4	-34.59	140.35	144.55	104	43.47	59.2	-0.15	0.424	0.5775	0.6683
	72 G60Y	0.6	1.0	0.0	83.46	-31.64	143.9	147.34	102	47.6	63.04	-0.07	0.4305	0.5702	0.7115
	73 G65Y	0.65	1.0	0.0	85.16	-28.69	146.83	149.61	101	51.39	66.32	-0.05	0.4368	0.5637	0.7487
	74 G70Y	0.7	1.0	0.0	86.57	-25.76	149.25	151.46	100	54.87	69.13	-0.07	0.4428	0.5579	0.7803
	75 G75Y	0.75	1.0	0.0	87.74	-22.67	151.27	152.96	99	58.14	71.52	-0.1	0.4488	0.552	0.8073
	76 G80Y	0.8	1.0	0.0	88.68	-19.33	152.89	154.11	97	61.24	73.48	-0.11	0.455	0.5459	0.8294
	77 G85Y	0.85	1.0	0.0	89.38	-15.63	154.1	154.89	96	64.14	74.96	-0.14	0.4616	0.5395	0.8462
	78 G90Y	0.9	1.0	0.0	89.99	-11.46	155.16	155.58	94	67.17	76.28	-0.14	0.4687	0.5323	0.8611
	79 G95Y	0.95	1.0	0.0	90.55	-6.59	156.13	156.27	92	70.53	77.5	-0.01	0.4765	0.5236	0.8749
	80 Y00R	0.0	1.0	0.0	90.62	-0.86	154.51	154.51	90	73.37	77.64	0.12	0.4855	0.5137	0.8764
	81 9500	1.0	1.0	1.0	0.0	0.0	0.0	0.01	0	0.0	0.0	0.0	0.0	0.0	0.0
	82 9000	0.944	0.944	0.944	15.33	0.0	0.0	0.01	280	1.87	1.97	2.15	0.3127	0.329	0.0222
	83 8500	0.889	0.889	0.889	23.96	0.0	0.0	0.01	80	3.89	4.09	4.45	0.3127	0.329	0.0462
	84 8000	0.833	0.833	0.833	30.31	0.0	0.0	0.01	0	6.05	6.36	6.93	0.3127	0.329	0.0718
	85 7500	0.778	0.778	0.778	35.64	0.0	0.0	0.01	280	8.38	8.82	9.6	0.3127	0.329	0.0996
	86 7000	0.722	0.722	0.722	40.37	0.0	0.0	0.01	0	10.91	11.48	12.49	0.3127	0.329	0.1295
	87 6500	0.667	0.667	0.667	44.73	0.0	0.0	0.01	158	13.64	14.35	15.63	0.3127	0.329	0.162
	88 6000	0.611	0.611	0.611	48.87	0.0	0.0	0.01	158	16.62	17.49	19.05	0.3127	0.329	0.1975
	89 5500	0.556	0.556	0.556	52.87	0.0	0.0	0.01	0	19.89	20.93	22.79	0.3127	0.329	0.2362
	90 5000	0.5	0.5	0.5	56.77	0.0	0.0	0.01	0	23.47	24.69	26.88	0.3127	0.329	0.2787
	91 4500	0.444	0.444	0.444	60.65	0.0	0.0	0.01	0	27.42	28.85	31.41	0.3127	0.329	0.3257
	92 4000	0.389	0.389	0.389	64.54	0.0	0.0	0.01	158	31.81	33.47	36.44	0.3127	0.329	0.3778
	93 3500	0.333	0.333	0.333	68.47	0.0	0.0	0.01	158	36.69	38.61	42.04	0.3127	0.329	0.4358
	94 3000	0.278	0.278	0.278	72.48	0.0	0.0	0.01	158	42.18	44.38	48.33	0.3127	0.329	0.501
	95 2500	0.222	0.222	0.222	76.62	0.0	0.0	0.01	158	48.38	50.91	55.43	0.3127	0.329	0.5746
	96 2000	0.167	0.167	0.167	80.94	0.0	0.0	0.01	158	55.46	58.36	63.54	0.3127	0.329	0.6587
	97 1500	0.111	0.111	0.111	85.46	0.0	0.0	0.01	172	63.6	66.91	72.86	0.3127	0.329	0.7553
	98 1000	0.056	0.056	0.056	90.26	0.0	0.0	0.01	88	73.06	76.87	83.7	0.3127	0.329	0.8677
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

n = 88.59 / (88.59 - 2.59) = 1.03

See original or copy: http://web.me.com/klaus.richter/JE25/JE25LONA.TXT /.PS
Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ra

Colorimetric "Adapted data (a0)": Colorimetric data of Natural Colour System NCS00a0 for CIE lightness $L^*=00$ of black for D65 System NCS00a0

NCS-System

J Yellow

$LCH^*_a = 90.6 \ 154.5 \ 90$

$LAB^*_a = 90.6 \ -0.9 \ 154.5$

G Green

$LCH^*_a = 63.7 \ 148.3 \ 165$

$LAB^*_a = 63.7 \ -143.5 \ 37.4$

R Red

$LCH^*_a = 42.7 \ 99.0 \ 30$

$LAB^*_a = 42.7 \ 85.5 \ 49.9$

C_e Cyan_e

$LCH^*_a = 61.1 \ 110.6 \ 192$

$LAB^*_a = 61.1 \ -108.2 \ -22.7$

B Blue

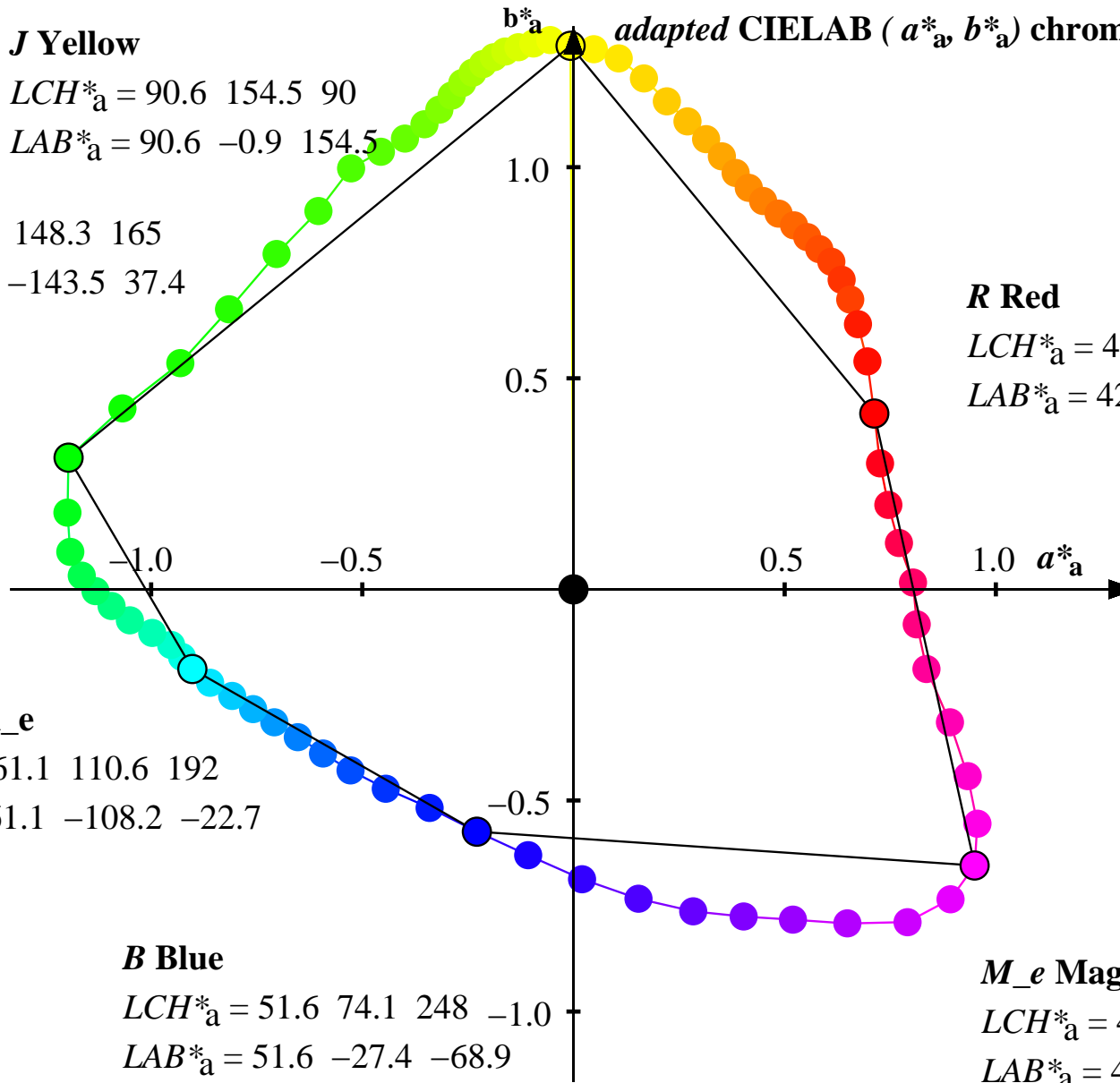
$LCH^*_a = 51.6 \ 74.1 \ 248 \ -1.0$

$LAB^*_a = 51.6 \ -27.4 \ -68.9$

M_e Magenta_e

$LCH^*_a = 40.8 \ 138.4 \ 325$

$LAB^*_a = 40.8 \ 114.0 \ -78.5$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS00a for CIE lightness $L^*=00$ of black for D65

System NLS00a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ_1a$	$Y_a=XYZ_2a$	$Z_a=XYZ_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	90.62	-0.86	154.51	154.51	90	73.37	77.64	0.12	0.4855	0.5137	0.8764
	01 Y05R	1.0	0.95	0.0	89.65	5.78	153.55	153.66	88	74.57	75.55	0.07	0.4965	0.503	0.8529
	02 Y10R	1.0	0.9	0.0	87.52	12.91	150.89	151.44	85	73.57	71.07	-0.12	0.5091	0.4918	0.8022
D65 reflection:	03 Y15R	1.0	0.85	0.0	84.22	19.97	145.21	146.57	82	70.19	64.49	-0.29	0.5223	0.4799	0.728
$Y_N = 0.0$	04 Y20R	1.0	0.8	0.0	80.47	26.48	138.75	141.25	79	65.8	57.53	-0.31	0.5349	0.4677	0.6493
$L^*_N = 0.0$	05 Y25R	1.0	0.75	0.0	77.15	32.41	133.02	136.91	76	62.12	51.78	-0.3	0.5469	0.4559	0.5845
	06 Y30R	1.0	0.7	0.0	74.22	37.68	127.96	133.39	74	59.0	47.04	-0.37	0.5584	0.4452	0.531
	07 Y35R	1.0	0.65	0.0	71.37	42.14	123.05	130.07	71	55.83	42.73	-0.46	0.5692	0.4357	0.4823
	08 Y40R	1.0	0.6	0.0	68.66	46.07	118.38	127.03	69	52.78	38.87	-0.49	0.579	0.4265	0.4388
	09 Y45R	1.0	0.55	0.0	66.22	49.88	114.17	124.59	66	50.23	35.61	-0.41	0.588	0.4168	0.4019
	10 Y50R	1.0	0.5	0.0	64.02	53.91	110.38	122.82	64	48.23	32.82	-0.34	0.5976	0.4067	0.3705
	11 Y55R	1.0	0.45	0.0	61.97	58.31	106.85	121.74	61	46.64	30.37	-0.36	0.6086	0.3962	0.3428
	12 Y60R	1.0	0.4	0.0	60.01	62.61	103.47	120.93	59	45.18	28.14	-0.42	0.6199	0.386	0.3176
	13 Y65R	1.0	0.35	0.0	58.07	66.41	100.13	120.15	56	43.62	26.04	-0.45	0.6304	0.3763	0.2939
	14 Y70R	1.0	0.3	0.0	56.1	69.88	96.73	119.33	54	41.94	24.02	-0.39	0.6398	0.3663	0.2711
	15 Y75R	1.0	0.25	0.0	54.03	73.22	93.15	118.48	52	40.12	22.0	-0.15	0.6475	0.3551	0.2484
	16 Y80R	1.0	0.2	0.0	51.87	76.15	87.99	116.36	49	38.11	20.03	0.1	0.6543	0.3439	0.2261
	17 Y85R	1.0	0.25	0.0	49.6	78.56	82.34	113.81	46	35.86	18.08	0.22	0.6621	0.3338	0.2041
	18 Y90R	1.0	0.1	0.0	47.24	80.82	75.38	110.52	43	33.57	16.21	0.42	0.6687	0.3229	0.1829
	19 Y95R	1.0	0.05	0.0	44.88	83.45	64.82	105.67	38	31.46	14.46	0.88	0.6723	0.309	0.1632
	20 R00B	1.0	0.0	0.0	42.66	85.46	49.92	98.97	30	29.44	12.93	1.83	0.6661	0.2926	0.1459
	21 R05B	1.0	0.0	0.1	40.85	87.08	35.88	94.18	22	27.85	11.77	3.27	0.6494	0.2744	0.1329
	22 R10B	1.0	0.0	0.2	39.64	89.46	24.0	92.62	15	27.14	11.03	5.06	0.6277	0.2552	0.1245
	23 R15B	1.0	0.0	0.3	38.99	92.4	13.12	93.33	8	27.18	10.65	7.42	0.6006	0.2354	0.1203
	24 R20B	1.0	0.0	0.4	38.53	96.46	1.97	96.48	1	27.7	10.39	10.62	0.5687	0.2133	0.1173
	25 R25B	1.0	0.0	0.5	38.07	97.57	-9.94	98.07	354	27.48	10.13	14.94	0.5229	0.1927	0.1143
	26 R30B	1.0	0.0	0.6	37.94	100.35	-22.67	102.88	347	28.03	10.05	21.06	0.4739	0.17	0.1135
	27 R35B	1.0	0.0	0.7	38.44	106.93	-37.8	113.42	341	30.3	10.34	31.07	0.4226	0.1441	0.1167
	28 R40B	1.0	0.0	0.8	39.23	112.0	-53.01	123.92	335	32.61	10.79	44.33	0.3717	0.123	0.1218
	29 R45B	1.0	0.0	0.9	40.01	114.72	-66.57	132.65	330	34.34	11.25	59.1	0.328	0.1075	0.127
	30 R50B	1.0	0.0	1.0	40.83	114.01	-78.48	138.42	325	35.17	11.76	74.8	0.2889	0.0966	0.1327
	31 R55B	0.9	0.0	1.0	41.73	107.06	-88.06	138.63	321	34.28	12.33	89.88	0.2512	0.0903	0.1392
	32 R60B	0.8	0.0	1.0	42.72	94.86	-94.55	133.94	315	32.03	12.97	102.17	0.2177	0.0881	0.1464
	33 R65B	0.7	0.0	1.0	43.64	77.79	-94.96	122.76	309	28.55	13.59	105.33	0.1936	0.0922	0.1534
	34 R70B	0.6	0.0	1.0	44.64	62.33	-93.87	112.69	304	25.8	14.29	106.36	0.1761	0.0976	0.1613
	35 R75B	0.5	0.0	1.0	45.66	48.28	-92.99	104.79	297	23.55	15.02	107.75	0.1609	0.1026	0.1695
	36 R80B	0.4	0.0	1.0	46.58	34.03	-91.51	97.64	290	21.31	15.7	107.93	0.147	0.1083	0.1772
	37 R85B	0.3	0.0	1.0	47.46	18.48	-87.94	89.87	282	18.93	16.38	104.64	0.1353	0.117	0.1848
	38 R90B	0.2	0.0	1.0	48.61	2.45	-82.35	82.4	272	16.86	17.28	99.01	0.1266	0.1298	0.1951
	39 R95B	0.1	0.0	1.0	50.09	-12.93	-75.54	76.65	260	15.29	18.49	92.62	0.121	0.1463	0.2088
	40 B00G	0.0	0.0	1.0	51.62	-27.44	-68.85	74.13	248	13.99	19.81	86.81	0.116	0.1642	0.2236
	41 B05G	0.0	0.1	1.0	53.02	-40.85	-62.11	74.35	237	12.85	21.06	80.86	0.112	0.1835	0.2378
	42 B10G	0.0	0.2	1.0	54.3	-53.33	-56.61	77.79	227	11.83	22.26	76.53	0.107	0.2012	0.2512
	43 B15G	0.0	0.3	1.0	55.45	-63.27	-51.51	81.6	219	11.14	23.37	72.58	0.104	0.2182	0.2638
	44 B20G	0.0	0.4	1.0	56.52	-71.18	-46.64	85.11	213	10.7	24.44	68.88	0.1028	0.2349	0.2758
	45 B25G	0.0	0.5	1.0	57.49	-78.29	-42.01	88.86	208	10.31	25.43	65.37	0.102	0.2515	0.287
	46 B30G	0.0	0.6	1.0	58.34	-84.95	-37.81	92.99	204	9.93	26.32	62.25	0.1008	0.2672	0.2971
	47 B35G	0.0	0.7	1.0	59.12	-91.05	-34.01	97.21	200	9.58	27.16	59.53	0.0996	0.2821	0.3065
	48 B40G	0.0	0.8	1.0	59.83	-96.97	-30.33	101.62	197	9.24	27.94	56.89	0.0982	0.297	0.3153
	49 B45G	0.0	0.9	1.0	60.49	-103.22	-26.51	106.58	194	8.83	28.67	54.09	0.0964	0.313	0.3237

$n = 28.67 / (28.67 + 0.0) = 1.0$

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS00a for CIE lightness L*=00 of black for D65

System NLS00a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ab,a	h*ab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
NCS-System	50 B50G	0.0	1.0	1.0	61.05	-108.21	-22.7	110.57	192	8.53	29.31	51.22	0.0958	0.329	0.3308
	51 B55G	0.0	1.0	0.9	61.45	-111.23	-19.14	112.87	190	8.38	29.76	48.44	0.0968	0.3437	0.3359
	52 B60G	0.0	1.0	0.8	61.72	-114.23	-15.8	115.33	188	8.18	30.07	45.76	0.0974	0.358	0.3395
D65 reflection:	53 B65G	0.0	1.0	0.7	61.89	-119.64	-12.43	120.3	186	7.67	30.27	42.99	0.0948	0.374	0.3417
YN = 0.0	54 B70G	0.0	1.0	0.6	62.05	-126.07	-8.76	126.39	184	7.08	30.46	40.09	0.0912	0.3924	0.3439
L*N = 0.0	55 B75G	0.0	1.0	0.5	62.21	-131.19	-4.74	131.28	182	6.64	30.65	37.03	0.0893	0.4124	0.346
	56 B80G	0.0	1.0	0.4	62.38	-135.83	-0.54	135.84	180	6.27	30.85	34.01	0.0881	0.4338	0.3483
	57 B85G	0.0	1.0	0.3	62.53	-139.7	3.95	139.76	178	5.97	31.02	30.91	0.0879	0.4569	0.3502
	58 B90G	0.0	1.0	0.2	62.72	-143.0	10.66	143.41	176	5.75	31.25	26.63	0.0904	0.4912	0.3528
	59 B95G	0.0	1.0	0.1	63.13	-143.73	21.85	145.39	171	5.84	31.74	20.47	0.1006	0.5467	0.3583
	60 G00Y	0.0	1.0	0.0	63.67	-143.48	37.43	148.3	165	6.08	32.4	13.59	0.1167	0.6224	0.3658
	61 G05Y	0.05	1.0	0.0	64.33	-128.13	51.51	138.11	158	7.89	33.2	8.96	0.1576	0.6635	0.3748
	62 G10Y	0.1	1.0	0.0	65.09	-111.74	64.28	128.92	150	10.22	34.16	5.86	0.2034	0.6799	0.3856
	63 G15Y	0.15	1.0	0.0	66.03	-97.86	79.59	126.14	141	12.71	35.36	3.22	0.2478	0.6894	0.3992
	64 G20Y	0.2	1.0	0.0	67.16	-84.38	95.32	127.3	132	15.65	36.85	1.51	0.2898	0.6822	0.416
	65 G25Y	0.25	1.0	0.0	68.57	-72.52	107.53	129.7	124	18.93	38.75	0.75	0.324	0.6632	0.4374
	66 G30Y	0.3	1.0	0.0	70.24	-63.22	119.73	135.4	118	22.33	41.1	0.1	0.3515	0.647	0.4639
	67 G35Y	0.35	1.0	0.0	72.17	-54.77	124.43	135.95	114	26.16	43.91	-0.1	0.3739	0.6276	0.4957
	68 G40Y	0.4	1.0	0.0	74.33	-47.83	128.15	136.79	110	30.29	47.22	-0.24	0.392	0.6112	0.533
	69 G45Y	0.45	1.0	0.0	76.68	-42.32	132.21	138.82	108	34.64	51.0	-0.29	0.4059	0.5976	0.5757
	70 G50Y	0.5	1.0	0.0	79.08	-38.03	136.35	141.55	106	39.07	55.07	-0.25	0.4162	0.5866	0.6216
	71 G55Y	0.55	1.0	0.0	81.4	-34.59	140.35	144.55	104	43.47	59.2	-0.15	0.424	0.5775	0.6683
	72 G60Y	0.6	1.0	0.0	83.46	-31.64	143.9	147.34	102	47.6	63.04	-0.07	0.4305	0.5702	0.7115
	73 G65Y	0.65	1.0	0.0	85.16	-28.69	146.83	149.61	101	51.39	66.32	-0.05	0.4368	0.5637	0.7487
	74 G70Y	0.7	1.0	0.0	86.57	-25.76	149.25	151.46	100	54.87	69.13	-0.07	0.4428	0.5579	0.7803
	75 G75Y	0.75	1.0	0.0	87.74	-22.67	151.27	152.96	99	58.14	71.52	-0.1	0.4488	0.552	0.8073
	76 G80Y	0.8	1.0	0.0	88.68	-19.33	152.89	154.11	97	61.24	73.48	-0.11	0.455	0.5459	0.8294
	77 G85Y	0.85	1.0	0.0	89.38	-15.63	154.1	154.89	96	64.14	74.96	-0.14	0.4616	0.5395	0.8462
	78 G90Y	0.9	1.0	0.0	89.99	-11.46	155.16	155.58	94	67.17	76.28	-0.14	0.4687	0.5323	0.8611
	79 G95Y	0.95	1.0	0.0	90.55	-6.59	156.13	156.27	92	70.53	77.5	-0.01	0.4765	0.5236	0.8749
	80 Y00R	0.0	1.0	0.0	90.62	-0.86	154.51	154.51	90	73.37	77.64	0.12	0.4855	0.5137	0.8764
	81 9500	1.0	1.0	1.0	0.0	0.0	0.0	0.01	0	0.0	0.0	0.0	0.0	0.0	0.0
	82 9000	0.944	0.944	0.944	15.33	0.0	0.0	0.01	280	1.87	1.97	2.15	0.3127	0.329	0.0222
	83 8500	0.889	0.889	0.889	23.96	0.0	0.0	0.01	80	3.89	4.09	4.45	0.3127	0.329	0.0462
	84 8000	0.833	0.833	0.833	30.31	0.0	0.0	0.01	0	6.05	6.36	6.93	0.3127	0.329	0.0718
	85 7500	0.778	0.778	0.778	35.64	0.0	0.0	0.01	280	8.38	8.82	9.6	0.3127	0.329	0.0996
	86 7000	0.722	0.722	0.722	40.37	0.0	0.0	0.01	0	10.91	11.48	12.49	0.3127	0.329	0.1295
	87 6500	0.667	0.667	0.667	44.73	0.0	0.0	0.01	158	13.64	14.35	15.63	0.3127	0.329	0.162
	88 6000	0.611	0.611	0.611	48.87	0.0	0.0	0.01	158	16.62	17.49	19.05	0.3127	0.329	0.1975
	89 5500	0.556	0.556	0.556	52.87	0.0	0.0	0.01	0	19.89	20.93	22.79	0.3127	0.329	0.2362
	90 5000	0.5	0.5	0.5	56.77	0.0	0.0	0.01	0	23.47	24.69	26.88	0.3127	0.329	0.2787
	91 4500	0.444	0.444	0.444	60.65	0.0	0.0	0.01	0	27.42	28.85	31.41	0.3127	0.329	0.3257
	92 4000	0.389	0.389	0.389	64.54	0.0	0.0	0.01	158	31.81	33.47	36.44	0.3127	0.329	0.3778
	93 3500	0.333	0.333	0.333	68.47	0.0	0.0	0.01	158	36.69	38.61	42.04	0.3127	0.329	0.4358
	94 3000	0.278	0.278	0.278	72.48	0.0	0.0	0.01	158	42.18	44.38	48.33	0.3127	0.329	0.501
	95 2500	0.222	0.222	0.222	76.62	0.0	0.0	0.01	158	48.38	50.91	55.43	0.3127	0.329	0.5746
	96 2000	0.167	0.167	0.167	80.94	0.0	0.0	0.01	158	55.46	58.36	63.54	0.3127	0.329	0.6587
	97 1500	0.111	0.111	0.111	85.46	0.0	0.0	0.01	172	63.6	66.91	72.86	0.3127	0.329	0.7553
	98 1000	0.056	0.056	0.056	90.26	0.0	0.0	0.01	88	73.06	76.87	83.7	0.3127	0.329	0.8677
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

n = 88.59 / (88.59 + 0.0) = 1.0

See original or copy: http://web.me.com/klaus.richter/JE25/JE25LONA.TXT /.PS
Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems
TUB material: code=rha4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS00a for CIE lightness $L^*=00$ of black for D65 System NLS00a

NCS-System **J Yellow** *adapted* CIELAB (a^*_a , b^*_a) chroma diagram

D65 reflection: $LCH^*_a = 90.6 \ 154.5 \ 90$
 $Y_N = 0.0$
 $L^*_N = 0.0$
 $LAB^*_a = 90.6 \ -0.9 \ 154.5$

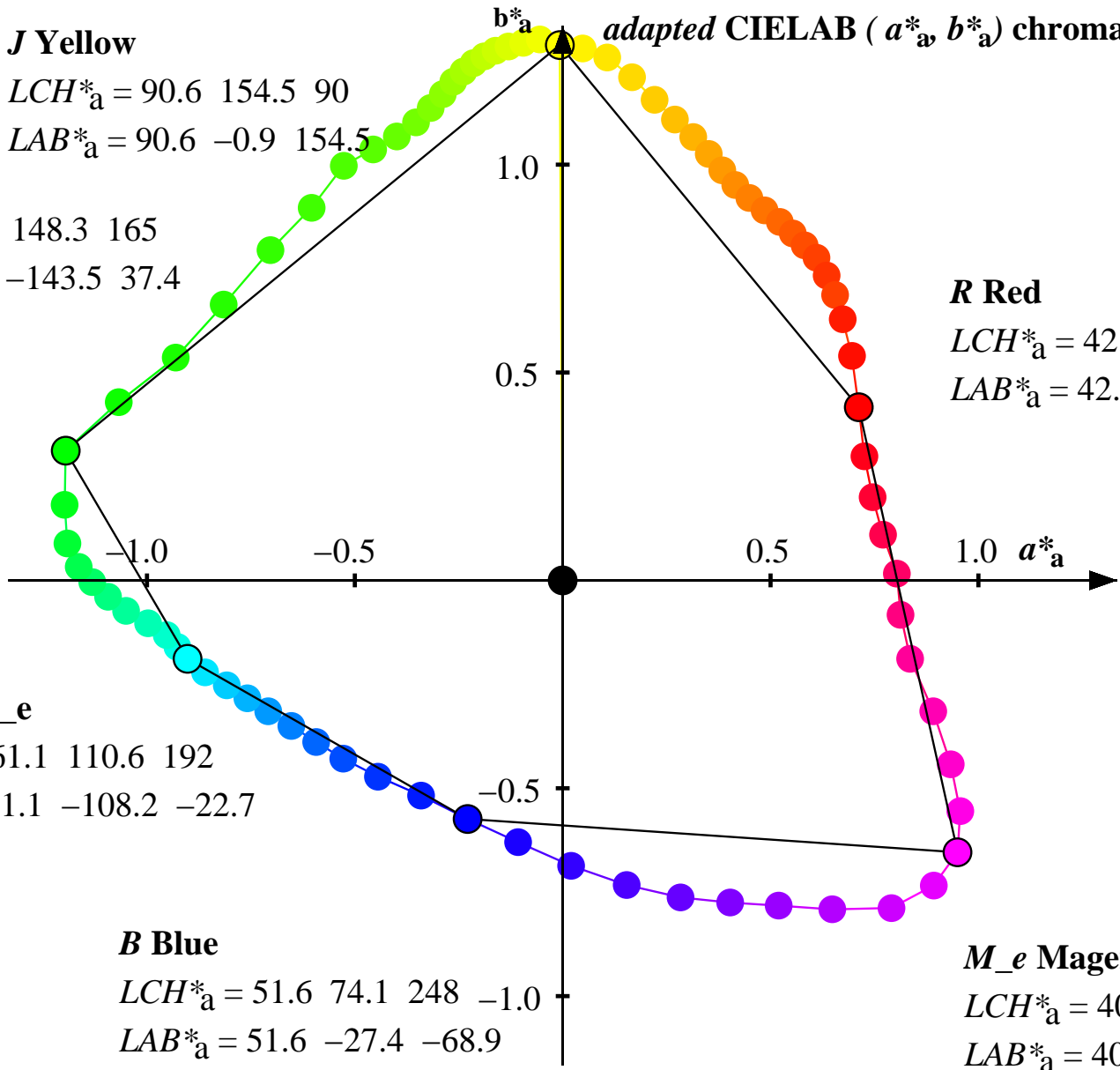
G Green
 $LCH^*_a = 63.7 \ 148.3 \ 165$
 $LAB^*_a = 63.7 \ -143.5 \ 37.4$

R Red
 $LCH^*_a = 42.7 \ 99.0 \ 30$
 $LAB^*_a = 42.7 \ 85.5 \ 49.9$

C_e Cyan_e
 $LCH^*_a = 61.1 \ 110.6 \ 192$
 $LAB^*_a = 61.1 \ -108.2 \ -22.7$

B Blue
 $LCH^*_a = 51.6 \ 74.1 \ 248 \ -1.0$
 $LAB^*_a = 51.6 \ -27.4 \ -68.9$

M_e Magenta_e
 $LCH^*_a = 40.8 \ 138.4 \ 325$
 $LAB^*_a = 40.8 \ 114.0 \ -78.5$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT /.PS>
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems
 TUB material: code=rh4ta

N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS06a for CIE lightness $L^*=06$ of black for D65

System NLS06a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	90.65	-0.85	144.77	144.77	90	73.45	77.72	0.81	0.4833	0.5114	0.8773
	01 Y05R	1.0	0.95	0.0	89.7	5.73	143.82	143.94	88	74.64	75.65	0.76	0.4942	0.5008	0.8539
	02 Y10R	1.0	0.9	0.0	87.58	12.81	142.99	143.56	85	73.65	71.19	0.56	0.5065	0.4896	0.8036
D65 reflection:	03 Y15R	1.0	0.85	0.0	84.31	19.8	139.77	141.16	82	70.29	64.66	0.39	0.5193	0.4778	0.7299
	04 Y20R	1.0	0.8	0.0	80.6	26.24	133.72	136.27	79	65.93	57.75	0.37	0.5315	0.4655	0.6518
	05 Y25R	1.0	0.75	0.0	77.31	32.1	127.91	131.88	76	62.28	52.04	0.38	0.543	0.4537	0.5875
	06 Y30R	1.0	0.7	0.0	74.4	37.29	123.85	129.34	73	59.18	47.34	0.31	0.554	0.4431	0.5343
	07 Y35R	1.0	0.65	0.0	71.59	41.69	120.34	127.35	71	56.03	43.06	0.22	0.5642	0.4336	0.486
	08 Y40R	1.0	0.6	0.0	68.92	45.55	116.14	124.75	69	53.0	39.23	0.19	0.5735	0.4245	0.4428
	09 Y45R	1.0	0.55	0.0	66.51	49.28	110.77	121.24	66	50.47	35.98	0.27	0.582	0.4149	0.4062
	10 Y50R	1.0	0.5	0.0	64.34	53.23	106.04	118.65	63	48.49	33.22	0.34	0.5909	0.4049	0.375
	11 Y55R	1.0	0.45	0.0	62.32	57.54	102.9	117.9	61	46.91	30.78	0.32	0.6013	0.3946	0.3475
	12 Y60R	1.0	0.4	0.0	60.4	61.74	100.48	117.94	58	45.46	28.57	0.26	0.612	0.3846	0.3224
	13 Y65R	1.0	0.35	0.0	58.49	65.45	97.59	117.51	56	43.91	26.48	0.23	0.6218	0.375	0.2989
	14 Y70R	1.0	0.3	0.0	56.56	68.82	93.38	116.0	54	42.24	24.47	0.29	0.6304	0.3653	0.2763
	15 Y75R	1.0	0.25	0.0	54.53	72.04	86.54	112.6	50	40.43	22.48	0.52	0.6374	0.3543	0.2537
	16 Y80R	1.0	0.2	0.0	52.42	74.85	79.13	108.92	47	38.44	20.52	0.79	0.6434	0.3435	0.2316
	17 Y85R	1.0	0.25	0.0	50.2	77.12	73.58	106.6	44	36.2	18.58	0.91	0.6501	0.3337	0.2098
	18 Y90R	1.0	0.1	0.0	47.91	79.23	66.85	103.66	40	33.93	16.72	1.11	0.6555	0.3231	0.1888
	19 Y95R	1.0	0.05	0.0	45.61	81.67	57.67	99.98	35	31.83	14.98	1.56	0.658	0.3097	0.1691
	20 R00B	1.0	0.0	0.0	43.46	83.49	45.66	95.16	29	29.82	13.47	2.5	0.6513	0.2941	0.152
	21 R05B	1.0	0.0	0.1	41.72	84.93	33.42	91.27	21	28.25	12.32	3.93	0.6349	0.2768	0.139
	22 R10B	1.0	0.0	0.2	40.55	87.16	22.62	90.05	15	27.55	11.58	5.71	0.6143	0.2583	0.1308
	23 R15B	1.0	0.0	0.3	39.93	89.99	12.47	90.85	8	27.59	11.21	8.05	0.5889	0.2392	0.1265
	24 R20B	1.0	0.0	0.4	39.49	93.93	1.89	93.95	1	28.1	10.95	11.23	0.559	0.2177	0.1236
	25 R25B	1.0	0.0	0.5	39.04	94.97	-9.57	95.45	354	27.88	10.68	15.52	0.5155	0.1975	0.1206
	26 R30B	1.0	0.0	0.6	38.92	97.7	-21.95	100.13	347	28.43	10.61	21.6	0.4689	0.175	0.1198
	27 R35B	1.0	0.0	0.7	39.4	104.23	-36.8	110.53	341	30.69	10.89	31.54	0.4197	0.149	0.123
	28 R40B	1.0	0.0	0.8	40.15	109.31	-51.82	120.98	335	32.98	11.34	44.7	0.3704	0.1274	0.128
	29 R45B	1.0	0.0	0.9	40.9	112.08	-65.27	129.7	330	34.7	11.8	59.36	0.3277	0.1115	0.1332
	30 R50B	1.0	0.0	1.0	41.7	111.46	-77.1	135.53	325	35.52	12.31	74.95	0.2893	0.1002	0.1389
	31 R55B	0.9	0.0	1.0	42.57	104.69	-86.65	135.91	320	34.63	12.87	89.92	0.252	0.0937	0.1453
	32 R60B	0.8	0.0	1.0	43.52	92.74	-93.14	131.45	315	32.4	13.51	102.13	0.2189	0.0913	0.1525
	33 R65B	0.7	0.0	1.0	44.41	76.01	-93.59	120.57	309	28.95	14.13	105.27	0.1951	0.0952	0.1595
	34 R70B	0.6	0.0	1.0	45.38	60.88	-92.56	110.79	303	26.21	14.82	106.29	0.1779	0.1006	0.1673
	35 R75B	0.5	0.0	1.0	46.36	47.13	-91.72	103.13	297	23.98	15.54	107.67	0.1629	0.1056	0.1754
	36 R80B	0.4	0.0	1.0	47.26	33.2	-90.28	96.2	290	21.76	16.22	107.85	0.1492	0.1112	0.1831
	37 R85B	0.3	0.0	1.0	48.12	18.01	-86.77	88.63	282	19.4	16.89	104.58	0.1377	0.1199	0.1906
	38 R90B	0.2	0.0	1.0	49.24	2.39	-81.26	81.31	272	17.34	17.79	98.99	0.1293	0.1326	0.2008
	39 R95B	0.1	0.0	1.0	50.68	-12.59	-74.55	75.61	260	15.78	18.99	92.64	0.1238	0.1491	0.2144
	40 B00G	0.0	0.0	1.0	52.17	-26.71	-67.95	73.03	249	14.49	20.3	86.88	0.1191	0.1668	0.2291
	41 B05G	0.0	0.1	1.0	53.54	-39.76	-61.29	73.07	237	13.36	21.54	80.97	0.1153	0.1859	0.2432
	42 B10G	0.0	0.2	1.0	54.79	-51.89	-55.87	76.26	227	12.35	22.73	76.67	0.1105	0.2034	0.2565
	43 B15G	0.0	0.3	1.0	55.92	-61.55	-50.83	79.84	220	11.66	23.84	72.75	0.1077	0.2202	0.2691
	44 B20G	0.0	0.4	1.0	56.97	-69.24	-46.03	83.16	214	11.22	24.89	69.08	0.1067	0.2366	0.281
	45 B25G	0.0	0.5	1.0	57.92	-76.16	-41.46	86.73	209	10.84	25.88	65.6	0.1059	0.2529	0.2921
	46 B30G	0.0	0.6	1.0	58.76	-82.63	-37.31	90.67	204	10.46	26.77	62.49	0.1049	0.2684	0.3021
	47 B35G	0.0	0.7	1.0	59.52	-88.56	-33.56	94.72	201	10.11	27.59	59.79	0.1037	0.283	0.3115
	48 B40G	0.0	0.8	1.0	60.22	-94.3	-29.93	98.95	198	9.77	28.37	57.17	0.1025	0.2976	0.3202
	49 B45G	0.0	0.9	1.0	60.87	-100.35	-26.15	103.72	195	9.37	29.1	54.39	0.1009	0.3134	0.3285

$n = 28.67 / (28.67 + 0.63) = 0.979$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS06a for CIE lightness $L^*=06$ of black for D65

System NLS06a
NCS-System

D65 reflection:

$Y_N = 0.63$

$L^*_N = 5.69$

Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$
50 B50G	0.0	1.0	1.0	61.42	-105.18	-22.39	107.55	192	9.07	29.73	0.1004	0.329	0.3356
51 B55G	0.0	1.0	0.9	61.81	-108.11	-18.88	109.76	190	8.92	30.18	0.1015	0.3434	0.3406
52 B60G	0.0	1.0	0.8	62.08	-111.01	-15.58	112.11	188	8.72	30.49	0.1022	0.3573	0.3442
53 B65G	0.0	1.0	0.7	62.24	-116.18	-12.25	116.83	186	8.22	30.69	0.0998	0.373	0.3464
54 B70G	0.0	1.0	0.6	62.4	-122.29	-8.63	122.6	184	7.63	30.88	0.0965	0.3909	0.3485
55 B75G	0.0	1.0	0.5	62.56	-127.14	-4.67	127.23	182	7.19	31.07	0.095	0.4103	0.3507
56 B80G	0.0	1.0	0.4	62.73	-131.53	-0.53	131.54	180	6.82	31.26	0.0941	0.431	0.3529
57 B85G	0.0	1.0	0.3	62.87	-135.19	3.88	135.25	178	6.53	31.43	0.0941	0.4534	0.3548
58 B90G	0.0	1.0	0.2	63.06	-138.32	10.47	138.72	176	6.31	31.66	0.0969	0.4864	0.3574
59 B95G	0.0	1.0	0.1	63.46	-139.09	21.42	140.74	171	6.4	32.14	0.1074	0.5397	0.3628
60 G00Y	0.0	1.0	0.0	64.0	-138.97	36.57	143.71	165	6.63	32.8	0.1237	0.6119	0.3703
61 G05Y	0.05	1.0	0.0	64.64	-124.61	50.09	134.3	158	8.43	33.6	0.1633	0.651	0.3793
62 G10Y	0.1	1.0	0.0	65.4	-109.05	62.14	125.52	150	10.75	34.55	0.2075	0.6669	0.39
63 G15Y	0.15	1.0	0.0	66.32	-95.75	76.11	122.32	142	13.22	35.74	0.2502	0.6763	0.4035
64 G20Y	0.2	1.0	0.0	67.44	-82.75	89.5	121.9	133	16.14	37.22	0.2906	0.67	0.4201
65 G25Y	0.25	1.0	0.0	68.82	-71.26	99.08	122.05	126	19.39	39.1	0.3236	0.6526	0.4414
66 G30Y	0.3	1.0	0.0	70.48	-62.22	110.33	126.67	119	22.77	41.43	0.3503	0.6376	0.4677
67 G35Y	0.35	1.0	0.0	72.38	-53.98	116.54	128.44	115	26.58	44.23	0.3723	0.6196	0.4992
68 G40Y	0.4	1.0	0.0	74.52	-47.2	122.21	131.01	111	30.67	47.51	0.3901	0.6043	0.5363
69 G45Y	0.45	1.0	0.0	76.84	-41.81	126.9	133.61	108	34.99	51.27	0.4038	0.5917	0.5787
70 G50Y	0.5	1.0	0.0	79.22	-37.61	130.51	135.82	106	39.4	55.31	0.4141	0.5814	0.6243
71 G55Y	0.55	1.0	0.0	81.52	-34.23	133.03	137.36	104	43.76	59.41	0.422	0.5729	0.6706
72 G60Y	0.6	1.0	0.0	83.56	-31.33	135.4	138.98	103	47.86	63.22	0.4285	0.5661	0.7136
73 G65Y	0.65	1.0	0.0	85.24	-28.43	138.05	140.95	102	51.62	66.48	0.4348	0.56	0.7504
74 G70Y	0.7	1.0	0.0	86.64	-25.53	140.69	142.99	100	55.07	69.27	0.4408	0.5544	0.7819
75 G75Y	0.75	1.0	0.0	87.8	-22.48	143.13	144.88	99	58.33	71.64	0.4468	0.5488	0.8087
76 G80Y	0.8	1.0	0.0	88.73	-19.16	144.9	146.16	98	61.4	73.59	0.453	0.5429	0.8306
77 G85Y	0.85	1.0	0.0	89.42	-15.5	146.56	147.38	96	64.28	75.06	0.4596	0.5366	0.8473
78 G90Y	0.9	1.0	0.0	90.03	-11.37	147.53	147.97	94	67.29	76.37	0.4667	0.5296	0.8621
79 G95Y	0.95	1.0	0.0	90.59	-6.54	146.61	146.76	93	70.63	77.58	0.4744	0.5211	0.8758
80 Y00R	0.0	1.0	0.0	90.65	-0.85	144.77	144.77	90	73.45	77.72	0.4833	0.5114	0.8773
81 9500	1.0	1.0	1.0	5.69	0.0	0.0	0.01	0	0.6	0.63	0.3127	0.329	0.0071
82 9000	0.944	0.944	0.944	18.31	0.0	0.0	0.01	280	2.46	2.59	0.3127	0.329	0.0292
83 8500	0.889	0.889	0.889	25.83	0.0	0.0	0.01	85	4.46	4.69	0.3127	0.329	0.0529
84 8000	0.833	0.833	0.833	31.69	0.0	0.0	0.01	0	6.6	6.95	0.3127	0.329	0.0784
85 7500	0.778	0.778	0.778	36.72	0.0	0.0	0.01	0	8.92	9.39	0.3127	0.329	0.106
86 7000	0.722	0.722	0.722	41.25	0.0	0.0	0.01	157	11.43	12.02	0.3127	0.329	0.1357
87 6500	0.667	0.667	0.667	45.47	0.0	0.0	0.01	158	14.14	14.88	0.3127	0.329	0.168
88 6000	0.611	0.611	0.611	49.49	0.0	0.0	0.01	158	17.11	18.0	0.3127	0.329	0.2032
89 5500	0.556	0.556	0.556	53.39	0.0	0.0	0.01	0	20.35	21.41	0.3127	0.329	0.2417
90 5000	0.5	0.5	0.5	57.22	0.0	0.0	0.01	0	23.9	25.14	0.3127	0.329	0.2838
91 4500	0.444	0.444	0.444	61.03	0.0	0.0	0.01	0	27.82	29.28	0.3127	0.329	0.3305
92 4000	0.389	0.389	0.389	64.85	0.0	0.0	0.01	158	32.18	33.86	0.3127	0.329	0.3822
93 3500	0.333	0.333	0.333	68.73	0.0	0.0	0.01	140	37.03	38.97	0.3127	0.329	0.4398
94 3000	0.278	0.278	0.278	72.69	0.0	0.0	0.01	158	42.48	44.7	0.3127	0.329	0.5046
95 2500	0.222	0.222	0.222	76.79	0.0	0.0	0.01	0	48.64	51.18	0.3127	0.329	0.5777
96 2000	0.167	0.167	0.167	81.06	0.0	0.0	0.01	158	55.67	58.57	0.3127	0.329	0.6612
97 1500	0.111	0.111	0.111	85.54	0.0	0.0	0.01	169	63.74	67.07	0.3127	0.329	0.7571
98 1000	0.056	0.056	0.056	90.3	0.0	0.0	0.01	88	73.14	76.96	0.3127	0.329	0.8687
99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	0.3127	0.329	1.0

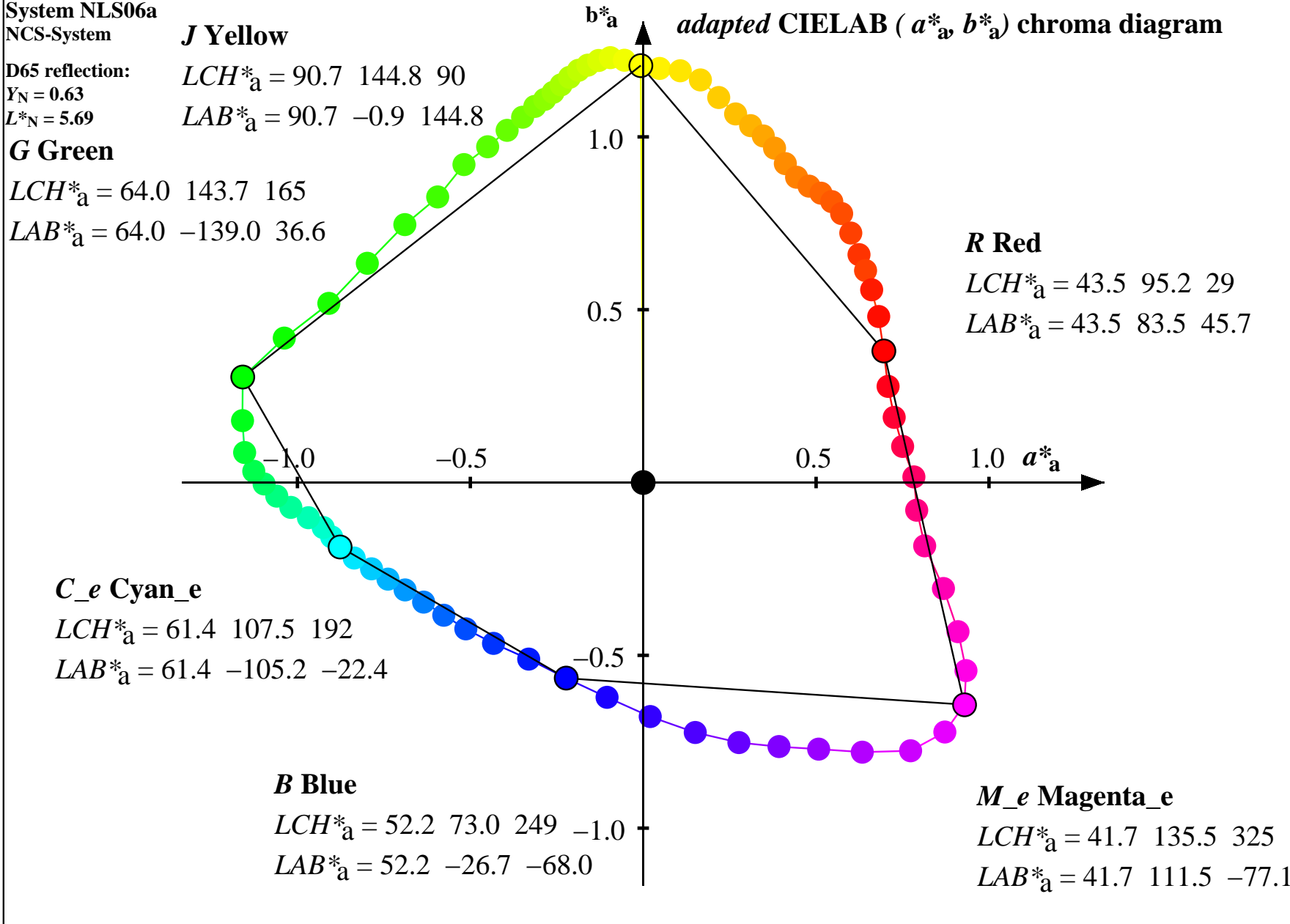
$n = 88.59 / (88.59 + 0.63) = 0.993$

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS06a for CIE lightness $L^*=06$ of black for D65 System NLS06a



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 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems
 TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS11a for CIE lightness $L^*=11$ of black for D65

System NLS11a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	90.69	-0.84	136.1	136.1	90	73.53	77.8	1.49	0.4812	0.5091	0.8782
	01 Y05R	1.0	0.95	0.0	89.74	5.69	134.99	135.11	88	74.71	75.74	1.44	0.4919	0.4986	0.855
	02 Y10R	1.0	0.9	0.0	87.64	12.7	133.61	134.21	85	73.73	71.32	1.25	0.504	0.4875	0.805
D65 reflection:	03 Y15R	1.0	0.85	0.0	84.4	19.63	130.14	131.61	81	70.39	64.83	1.08	0.5164	0.4757	0.7318
	04 Y20R	1.0	0.8	0.0	80.72	26.0	124.13	126.82	78	66.06	57.97	1.05	0.5281	0.4634	0.6543
	05 Y25R	1.0	0.75	0.0	77.46	31.8	118.38	122.58	75	62.44	52.31	1.06	0.5391	0.4517	0.5904
	06 Y30R	1.0	0.7	0.0	74.59	36.92	114.33	120.14	72	59.36	47.63	1.0	0.5497	0.4411	0.5377
	07 Y35R	1.0	0.65	0.0	71.81	41.24	110.86	118.28	70	56.23	43.38	0.91	0.5594	0.4316	0.4897
	08 Y40R	1.0	0.6	0.0	69.17	45.03	106.72	115.83	67	53.23	39.58	0.88	0.5682	0.4225	0.4468
	09 Y45R	1.0	0.55	0.0	66.79	48.68	101.41	112.49	64	50.72	36.36	0.96	0.5761	0.413	0.4104
	10 Y50R	1.0	0.5	0.0	64.66	52.56	96.76	110.11	61	48.74	33.62	1.03	0.5845	0.4031	0.3795
	11 Y55R	1.0	0.45	0.0	62.67	56.78	93.66	109.53	59	47.18	31.2	1.01	0.5943	0.393	0.3522
	12 Y60R	1.0	0.4	0.0	60.78	60.89	91.28	109.73	56	45.74	29.0	0.94	0.6044	0.3831	0.3273
	13 Y65R	1.0	0.35	0.0	58.91	64.51	88.44	109.47	54	44.2	26.93	0.92	0.6135	0.3738	0.304
	14 Y70R	1.0	0.3	0.0	57.01	67.78	84.31	108.17	51	42.54	24.93	0.98	0.6215	0.3642	0.2815
	15 Y75R	1.0	0.25	0.0	55.02	70.89	77.82	105.27	48	40.74	22.95	1.21	0.6278	0.3536	0.2591
	16 Y80R	1.0	0.2	0.0	52.96	73.58	71.25	102.42	44	38.77	21.01	1.47	0.633	0.343	0.2371
	17 Y85R	1.0	0.25	0.0	50.79	75.72	66.26	100.62	41	36.55	19.09	1.59	0.6387	0.3335	0.2154
	18 Y90R	1.0	0.1	0.0	48.56	77.68	60.44	98.42	38	34.29	17.24	1.79	0.6431	0.3233	0.1946
	19 Y95R	1.0	0.05	0.0	46.33	79.95	52.68	95.74	33	32.21	15.51	2.24	0.6447	0.3105	0.1751
	20 R00B	1.0	0.0	0.0	44.24	81.59	42.31	91.91	27	30.21	14.01	3.17	0.6375	0.2955	0.1581
	21 R05B	1.0	0.0	0.1	42.56	82.87	31.35	88.6	21	28.65	12.86	4.59	0.6215	0.279	0.1452
	22 R10B	1.0	0.0	0.2	41.43	84.97	21.4	87.62	14	27.95	12.14	6.36	0.6018	0.2613	0.137
	23 R15B	1.0	0.0	0.3	40.84	87.7	11.89	88.5	8	27.99	11.76	8.69	0.5779	0.2428	0.1328
	24 R20B	1.0	0.0	0.4	40.41	91.53	1.81	91.55	1	28.51	11.5	11.84	0.5498	0.2219	0.1298
	25 R25B	1.0	0.0	0.5	39.99	92.51	-9.23	92.97	354	28.29	11.24	16.1	0.5084	0.2021	0.1269
	26 R30B	1.0	0.0	0.6	39.87	97.52	-21.27	97.52	347	28.83	11.17	22.14	0.464	0.1798	0.1261
	27 R35B	1.0	0.0	0.7	40.33	101.65	-35.85	107.79	341	31.07	11.45	32.0	0.4169	0.1536	0.1293
	28 R40B	1.0	0.0	0.8	41.05	106.74	-50.68	118.16	335	33.34	11.9	45.07	0.3692	0.1317	0.1343
	29 R45B	1.0	0.0	0.9	41.77	109.54	-64.01	126.88	330	35.05	12.35	59.63	0.3275	0.1154	0.1395
	30 R50B	1.0	0.0	1.0	42.54	109.0	-75.77	132.76	325	35.87	12.85	75.11	0.2897	0.1038	0.1451
	31 R55B	0.9	0.0	1.0	43.38	102.41	-85.29	133.28	320	34.99	13.41	89.97	0.2529	0.0969	0.1514
	32 R60B	0.8	0.0	1.0	44.3	90.71	-91.78	129.05	315	32.77	14.05	102.09	0.2201	0.0943	0.1586
	33 R65B	0.7	0.0	1.0	45.17	74.3	-92.26	118.46	309	29.34	14.66	105.2	0.1967	0.0983	0.1655
	34 R70B	0.6	0.0	1.0	46.1	59.48	-91.27	108.95	303	26.63	15.35	106.22	0.1797	0.1036	0.1732
	35 R75B	0.5	0.0	1.0	47.06	46.03	-90.48	101.52	297	24.41	16.06	107.59	0.1649	0.1085	0.1813
	36 R80B	0.4	0.0	1.0	47.93	32.41	-89.08	94.8	290	22.21	16.74	107.76	0.1514	0.1141	0.1889
	37 R85B	0.3	0.0	1.0	48.76	17.57	-85.62	87.42	282	19.86	17.4	104.52	0.1401	0.1227	0.1964
	38 R90B	0.2	0.0	1.0	49.85	2.33	-80.19	80.24	272	17.82	18.3	98.98	0.1319	0.1354	0.2065
	39 R95B	0.1	0.0	1.0	51.26	-12.27	-73.57	74.6	261	16.27	19.49	92.67	0.1267	0.1518	0.22
	40 B00G	0.0	0.0	1.0	52.72	-26.02	-67.06	71.95	249	14.99	20.79	86.95	0.1222	0.1694	0.2347
	41 B05G	0.0	0.1	1.0	54.05	-38.72	-60.49	71.84	237	13.87	22.03	81.08	0.1185	0.1883	0.2486
	42 B10G	0.0	0.2	1.0	55.28	-50.52	-55.14	74.8	228	12.86	23.2	76.81	0.1139	0.2055	0.2619
	43 B15G	0.0	0.3	1.0	56.39	-59.91	-50.17	78.16	220	12.18	24.3	72.92	0.1113	0.2221	0.2743
	44 B20G	0.0	0.4	1.0	57.41	-67.4	-45.43	81.3	214	11.74	25.35	69.28	0.1104	0.2383	0.2861
	45 B25G	0.0	0.5	1.0	58.34	-74.14	-40.91	84.69	209	11.36	26.33	65.82	0.1098	0.2543	0.2972
	46 B30G	0.0	0.6	1.0	59.17	-80.43	-36.82	88.47	205	10.99	27.21	62.74	0.1088	0.2696	0.3071
	47 B35G	0.0	0.7	1.0	59.92	-86.19	-33.12	92.35	201	10.65	28.03	60.05	0.1078	0.2839	0.3164
	48 B40G	0.0	0.8	1.0	60.6	-91.77	-29.53	96.42	198	10.3	28.8	57.45	0.1067	0.2983	0.3251
	49 B45G	0.0	0.9	1.0	61.24	-97.64	-25.8	101.0	195	9.9	29.53	54.69	0.1052	0.3137	0.3333

$n = 28.67 / (28.67 + 1.26) = 0.958$

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS11a for CIE lightness $L^*=11$ of black for D65

System NLS11a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$
NCS-System	50 B50G	0.0	1.0	1.0	61.78	-102.32	-22.08	104.69	192	9.61	30.15	0.1049	0.329	0.3403
	51 B55G	0.0	1.0	0.9	62.16	-105.17	-18.62	106.81	190	9.46	30.6	0.1061	0.3431	0.3454
	52 B60G	0.0	1.0	0.8	62.43	-107.97	-15.36	109.06	188	9.26	30.91	0.1069	0.3567	0.3489
	53 B65G	0.0	1.0	0.7	62.6	-112.91	-12.07	113.57	186	8.76	31.1	0.1048	0.372	0.3511
	54 B70G	0.0	1.0	0.6	62.75	-118.74	-8.5	119.05	184	8.17	31.29	0.1017	0.3894	0.3532
	55 B75G	0.0	1.0	0.5	62.91	-123.36	-4.6	123.45	182	7.74	31.48	0.1004	0.4083	0.3553
	56 B80G	0.0	1.0	0.4	63.07	-127.53	-0.53	127.54	180	7.38	31.68	0.0998	0.4283	0.3576
	57 B85G	0.0	1.0	0.3	63.21	-131.0	3.82	131.06	178	7.08	31.84	0.1001	0.45	0.3594
	58 B90G	0.0	1.0	0.2	63.4	-133.98	10.29	134.38	176	6.87	32.07	0.1032	0.4818	0.362
	59 B95G	0.0	1.0	0.1	63.79	-134.78	21.01	136.41	171	6.96	32.55	0.1139	0.5331	0.3674
	60 G00Y	0.0	1.0	0.0	64.32	-134.77	35.74	139.44	165	7.19	33.2	0.1303	0.602	0.3748
	61 G05Y	0.05	1.0	0.0	64.96	-121.27	48.74	130.71	158	8.97	33.99	0.1688	0.6394	0.3837
	62 G10Y	0.1	1.0	0.0	65.7	-106.47	60.16	122.3	151	11.27	34.94	0.2113	0.6547	0.3944
	63 G15Y	0.15	1.0	0.0	66.61	-93.72	73.06	118.84	142	13.73	36.12	0.2524	0.664	0.4077
	64 G20Y	0.2	1.0	0.0	67.71	-81.17	84.87	117.44	134	16.63	37.59	0.2913	0.6585	0.4243
	65 G25Y	0.25	1.0	0.0	69.08	-70.04	92.98	116.41	127	19.85	39.46	0.3233	0.6424	0.4454
	66 G30Y	0.3	1.0	0.0	70.71	-61.25	101.91	118.91	121	23.21	41.77	0.3492	0.6287	0.4715
	67 G35Y	0.35	1.0	0.0	72.59	-53.21	107.46	119.92	116	26.99	44.55	0.3707	0.6119	0.5028
	68 G40Y	0.4	1.0	0.0	74.7	-46.58	112.82	122.06	112	31.05	47.81	0.3882	0.5977	0.5397
	69 G45Y	0.45	1.0	0.0	77.0	-41.31	117.39	124.45	109	35.34	51.54	0.4018	0.5859	0.5817
	70 G50Y	0.5	1.0	0.0	79.36	-37.19	121.01	126.59	107	39.72	55.55	0.4121	0.5764	0.627
	71 G55Y	0.55	1.0	0.0	81.63	-33.87	123.66	128.22	105	44.05	59.62	0.42	0.5685	0.673
	72 G60Y	0.6	1.0	0.0	83.65	-31.02	126.19	129.95	104	48.12	63.4	0.4265	0.562	0.7157
	73 G65Y	0.65	1.0	0.0	85.32	-28.16	128.86	131.91	102	51.85	66.64	0.4328	0.5562	0.7522
	74 G70Y	0.7	1.0	0.0	86.7	-25.3	131.44	133.85	101	55.28	69.4	0.4388	0.5509	0.7834
	75 G75Y	0.75	1.0	0.0	87.85	-22.28	133.78	135.63	99	58.51	71.76	0.4448	0.5456	0.81
	76 G80Y	0.8	1.0	0.0	88.78	-19.0	135.52	136.84	98	61.56	73.69	0.451	0.5399	0.8319
	77 G85Y	0.85	1.0	0.0	89.47	-15.37	137.1	137.96	96	64.42	75.16	0.4575	0.5338	0.8484
	78 G90Y	0.9	1.0	0.0	90.07	-11.28	138.07	138.53	95	67.42	76.46	0.4646	0.5269	0.863
	79 G95Y	0.95	1.0	0.0	90.63	-6.49	137.48	137.64	93	70.72	77.66	0.4723	0.5186	0.8766
	80 Y00R	0.0	1.0	0.0	90.69	-0.84	136.1	136.1	90	73.53	77.8	0.4812	0.5091	0.8782
	81 9500	1.0	1.0	1.0	10.99	0.0	0.0	0.01	0	1.2	1.26	0.3127	0.329	0.0142
	82 9000	0.944	0.944	0.944	20.84	0.0	0.0	0.01	0	3.04	3.2	0.3127	0.329	0.0361
	83 8500	0.889	0.889	0.889	27.55	0.0	0.0	0.01	80	5.03	5.29	0.3127	0.329	0.0597
	84 8000	0.833	0.833	0.833	32.99	0.0	0.0	0.01	0	7.16	7.53	0.3127	0.329	0.085
	85 7500	0.778	0.778	0.778	37.76	0.0	0.0	0.01	0	9.46	9.95	0.3127	0.329	0.1124
	86 7000	0.722	0.722	0.722	42.11	0.0	0.0	0.01	0	11.95	12.57	0.3127	0.329	0.1419
	87 6500	0.667	0.667	0.667	46.19	0.0	0.0	0.01	158	14.64	15.41	0.3127	0.329	0.1739
	88 6000	0.611	0.611	0.611	50.1	0.0	0.0	0.01	85	17.59	18.5	0.3127	0.329	0.2089
	89 5500	0.556	0.556	0.556	53.91	0.0	0.0	0.01	85	20.8	21.89	0.3127	0.329	0.2471
	90 5000	0.5	0.5	0.5	57.65	0.0	0.0	0.01	85	24.33	25.6	0.3127	0.329	0.289
	91 4500	0.444	0.444	0.444	61.4	0.0	0.0	0.01	0	28.23	29.7	0.3127	0.329	0.3353
	92 4000	0.389	0.389	0.389	65.16	0.0	0.0	0.01	158	32.55	34.25	0.3127	0.329	0.3866
	93 3500	0.333	0.333	0.333	68.98	0.0	0.0	0.01	158	37.37	39.32	0.3127	0.329	0.4439
	94 3000	0.278	0.278	0.278	72.9	0.0	0.0	0.01	0	42.78	45.01	0.3127	0.329	0.5081
	95 2500	0.222	0.222	0.222	76.95	0.0	0.0	0.01	0	48.89	51.44	0.3127	0.329	0.5807
	96 2000	0.167	0.167	0.167	81.17	0.0	0.0	0.01	158	55.87	58.79	0.3127	0.329	0.6636
	97 1500	0.111	0.111	0.111	85.62	0.0	0.0	0.01	165	63.89	67.22	0.3127	0.329	0.7588
	98 1000	0.056	0.056	0.056	90.34	0.0	0.0	0.01	140	73.22	77.04	0.3127	0.329	0.8696
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 1.26) = 0.986$

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Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS11a for CIE lightness $L^*=11$ of black for D65 System NLS11a

NCS-System **J Yellow** *adapted* CIELAB (a^*_a , b^*_a) chroma diagram

D65 reflection: $LCH^*_a = 90.7 \ 136.1 \ 90$
 $Y_N = 1.26$
 $L^*_N = 11.0$ $LAB^*_a = 90.7 \ -0.9 \ 136.1$

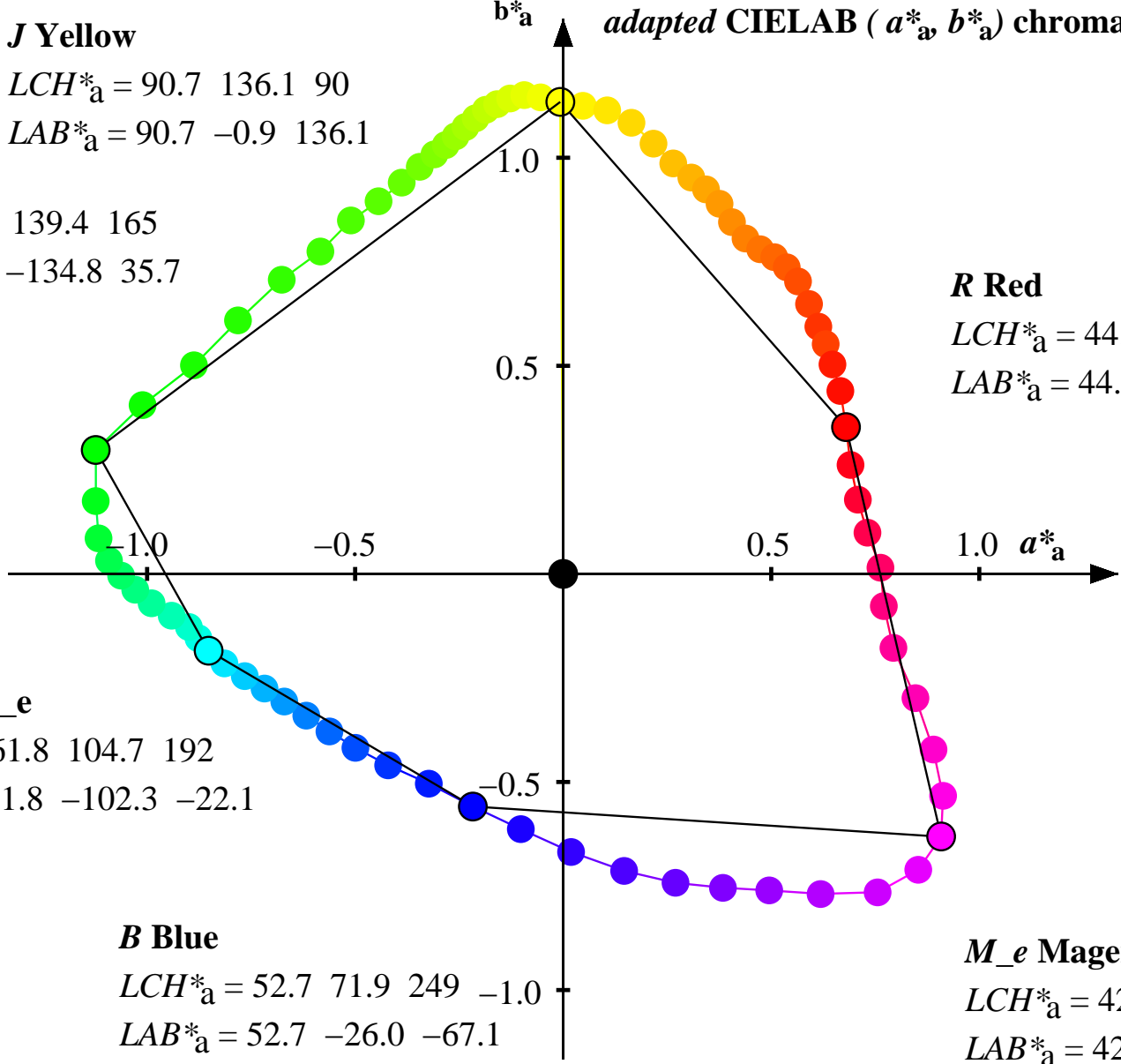
G Green
 $LCH^*_a = 64.3 \ 139.4 \ 165$
 $LAB^*_a = 64.3 \ -134.8 \ 35.7$

R Red
 $LCH^*_a = 44.2 \ 91.9 \ 27$
 $LAB^*_a = 44.2 \ 81.6 \ 42.3$

C_e Cyan_e
 $LCH^*_a = 61.8 \ 104.7 \ 192$
 $LAB^*_a = 61.8 \ -102.3 \ -22.1$

B Blue
 $LCH^*_a = 52.7 \ 71.9 \ 249 \ -1.0$
 $LAB^*_a = 52.7 \ -26.0 \ -67.1$

M_e Magenta_e
 $LCH^*_a = 42.5 \ 132.8 \ 325$
 $LAB^*_a = 42.5 \ 109.0 \ -75.8$



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 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems
 TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS18a for CIE lightness L*=18 of black for D65

System NLS18a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59	
NCS-System	00 Y00R	1.0	1.0	0.0	90.76	-0.83	124.61	124.61	90	73.68	77.95	2.86	0.4769	0.5046	0.8799
	01 Y05R	1.0	0.95	0.0	89.82	5.6	123.33	123.46	87	74.85	75.93	2.81	0.4873	0.4944	0.857
	02 Y10R	1.0	0.9	0.0	87.76	12.5	121.15	121.79	84	73.88	71.56	2.62	0.499	0.4833	0.8078
	03 Y15R	1.0	0.85	0.0	84.57	19.3	116.9	118.48	81	70.59	65.18	2.46	0.5107	0.4715	0.7357
	04 Y20R	1.0	0.8	0.0	80.97	25.53	110.86	113.77	77	66.32	58.41	2.43	0.5215	0.4593	0.6593
	05 Y25R	1.0	0.75	0.0	77.77	31.18	105.29	109.81	74	62.75	52.83	2.44	0.5317	0.4476	0.5963
	06 Y30R	1.0	0.7	0.0	74.96	36.17	100.95	107.23	70	59.72	48.22	2.38	0.5413	0.4371	0.5443
	07 Y35R	1.0	0.65	0.0	72.25	40.35	96.99	105.05	67	56.63	44.03	2.28	0.5501	0.4277	0.4971
	08 Y40R	1.0	0.6	0.0	69.67	44.01	92.78	102.69	65	53.67	40.29	2.26	0.5578	0.4187	0.4548
	09 Y45R	1.0	0.55	0.0	67.36	47.52	88.13	100.12	62	51.2	37.11	2.34	0.5648	0.4094	0.4189
	10 Y50R	1.0	0.5	0.0	65.29	51.24	84.02	98.41	59	49.25	34.41	2.41	0.5722	0.3998	0.3884
	11 Y55R	1.0	0.45	0.0	63.36	55.3	80.88	97.98	56	47.71	32.03	2.38	0.581	0.39	0.3615
	12 Y60R	1.0	0.4	0.0	61.53	59.23	78.21	98.11	53	46.29	29.86	2.32	0.5899	0.3805	0.337
	13 Y65R	1.0	0.35	0.0	59.72	62.67	75.31	97.97	50	44.78	27.82	2.3	0.5979	0.3714	0.314
	14 Y70R	1.0	0.3	0.0	57.9	65.76	71.68	97.27	47	43.14	25.85	2.36	0.6047	0.3623	0.2918
	15 Y75R	1.0	0.25	0.0	55.98	68.66	68.66	95.68	44	41.37	23.9	2.58	0.6097	0.3522	0.2697
	16 Y80R	1.0	0.2	0.0	54.01	71.13	61.37	93.95	41	39.42	21.98	2.84	0.6136	0.3422	0.2481
	17 Y85R	1.0	0.25	0.0	51.94	73.03	57.0	92.64	38	37.24	20.09	2.96	0.6177	0.3332	0.2268
	18 Y90R	1.0	0.1	0.0	49.82	74.72	52.04	91.05	35	35.01	18.27	3.16	0.6204	0.3237	0.2062
	19 Y95R	1.0	0.05	0.0	47.71	76.68	45.67	89.25	31	32.96	16.57	3.6	0.6204	0.3118	0.187
	20 R00B	1.0	0.0	0.0	45.75	78.01	37.21	86.43	25	30.99	15.08	4.52	0.6126	0.2981	0.1702
	21 R05B	1.0	0.0	0.1	44.17	79.02	27.99	83.83	20	29.46	13.96	5.92	0.5971	0.2829	0.1575
	22 R10B	1.0	0.0	0.2	43.12	80.87	19.36	83.16	13	28.77	13.24	7.66	0.5792	0.2666	0.1494
	23 R15B	1.0	0.0	0.3	42.57	83.41	10.88	84.12	7	28.8	12.87	9.95	0.5579	0.2493	0.1453
	24 R20B	1.0	0.0	0.4	42.18	87.05	1.68	87.06	1	29.31	12.61	13.06	0.5331	0.2294	0.1424
	25 R25B	1.0	0.0	0.5	41.78	87.92	-8.62	88.34	354	29.09	12.36	17.26	0.4955	0.2105	0.1395
	26 R30B	1.0	0.0	0.6	41.67	90.47	-20.03	92.67	348	29.63	12.29	23.21	0.455	0.1887	0.1387
	27 R35B	1.0	0.0	0.7	42.1	96.83	-34.07	102.66	341	31.84	12.56	32.93	0.4117	0.1625	0.1418
	28 R40B	1.0	0.0	0.8	42.77	101.9	-48.53	112.88	335	34.08	13.0	45.81	0.3668	0.14	0.1468
	29 R45B	1.0	0.0	0.9	43.44	104.76	-61.62	121.54	330	35.76	13.45	60.16	0.3269	0.123	0.1519
	30 R50B	1.0	0.0	1.0	44.15	104.37	-73.23	127.51	325	36.57	13.95	75.42	0.2904	0.1107	0.1574
	31 R55B	0.9	0.0	1.0	44.94	98.09	-82.66	128.29	320	35.7	14.5	90.06	0.2545	0.1034	0.1637
	32 R60B	0.8	0.0	1.0	45.8	86.87	-89.13	124.47	314	33.52	15.12	102.01	0.2225	0.1004	0.1707
	33 R65B	0.7	0.0	1.0	46.61	71.06	-89.68	114.43	308	30.14	15.73	105.08	0.1997	0.1042	0.1775
	34 R70B	0.6	0.0	1.0	47.5	56.84	-88.78	105.42	303	27.46	16.4	106.07	0.1831	0.1094	0.1852
	35 R75B	0.5	0.0	1.0	48.4	43.96	-88.07	98.44	297	25.27	17.11	107.43	0.1687	0.1142	0.1931
	36 R80B	0.4	0.0	1.0	49.22	30.91	-86.75	92.11	290	23.1	17.77	107.6	0.1556	0.1197	0.2006
	37 R85B	0.3	0.0	1.0	50.01	16.73	-83.4	85.07	281	20.79	18.43	104.41	0.1448	0.1283	0.208
	38 R90B	0.2	0.0	1.0	51.05	2.21	-78.11	78.15	272	18.78	19.31	98.94	0.137	0.1409	0.218
	39 R95B	0.1	0.0	1.0	52.38	-11.66	-71.66	72.62	261	17.25	20.49	92.73	0.1322	0.157	0.2313
	40 B00G	0.0	0.0	1.0	53.78	-24.73	-65.33	69.87	249	15.99	21.77	87.08	0.1281	0.1744	0.2457
	41 B05G	0.0	0.1	1.0	55.06	-36.78	-58.92	69.48	238	14.88	22.99	81.3	0.1249	0.1929	0.2595
	42 B10G	0.0	0.2	1.0	56.23	-47.95	-53.72	72.02	228	13.89	24.14	77.09	0.1207	0.2097	0.2725
	43 B15G	0.0	0.3	1.0	57.3	-56.86	-48.87	74.99	221	13.22	25.23	73.26	0.1183	0.2258	0.2848
	44 B20G	0.0	0.4	1.0	58.28	-63.97	-44.26	77.8	215	12.79	26.26	69.67	0.1176	0.2416	0.2964
	45 B25G	0.0	0.5	1.0	59.18	-70.37	-39.85	80.88	210	12.41	27.22	66.26	0.1172	0.2571	0.3073
	46 B30G	0.0	0.6	1.0	59.97	-76.34	-35.85	84.35	205	12.04	28.09	63.22	0.1165	0.2718	0.3171
	47 B35G	0.0	0.7	1.0	60.7	-81.8	-32.25	87.94	202	11.71	28.9	60.58	0.1157	0.2856	0.3263
	48 B40G	0.0	0.8	1.0	61.36	-87.08	-28.75	91.72	198	11.37	29.66	58.01	0.1148	0.2995	0.3348
	49 B45G	0.0	0.9	1.0	61.98	-92.61	-25.11	95.97	195	10.98	30.38	55.3	0.1136	0.3143	0.3429

n = 28.67 / (28.67 + 2.52) = 0.919

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS18a for CIE lightness $L^*=18$ of black for D65

System NLS18a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$
NCS-System	50 B50G	0.0	1.0	1.0	62.5	-97.03	-21.49	99.39	192	10.69	30.99	0.1135	0.329	0.3498
	51 B55G	0.0	1.0	0.9	62.87	-99.72	-18.11	101.37	190	10.54	31.43	0.1148	0.3425	0.3548
	52 B60G	0.0	1.0	0.8	63.13	-102.35	-14.93	103.44	188	10.34	31.74	0.1158	0.3555	0.3583
D65 reflection:	53 B65G	0.0	1.0	0.7	63.29	-106.9	-11.73	107.56	186	9.85	31.93	0.1141	0.37	0.3605
	54 B70G	0.0	1.0	0.6	63.44	-112.24	-8.26	112.55	184	9.27	32.12	0.1116	0.3866	0.3625
	55 B75G	0.0	1.0	0.5	63.59	-116.46	-4.46	116.55	182	8.85	32.3	0.1108	0.4044	0.3646
	56 B80G	0.0	1.0	0.4	63.75	-120.27	-0.51	120.28	180	8.49	32.5	0.1105	0.4233	0.3668
	57 B85G	0.0	1.0	0.3	63.88	-123.41	3.7	123.48	178	8.2	32.66	0.1113	0.4436	0.3687
	58 B90G	0.0	1.0	0.2	64.07	-126.14	9.94	126.54	175	7.98	32.89	0.1149	0.4733	0.3712
	59 B95G	0.0	1.0	0.1	64.45	-126.98	20.23	128.59	171	8.07	33.36	0.126	0.5207	0.3765
	60 G00Y	0.0	1.0	0.0	64.96	-127.15	34.18	131.67	165	8.3	34.0	0.1425	0.5838	0.3838
	61 G05Y	0.05	1.0	0.0	65.58	-115.11	46.26	124.07	158	10.06	34.78	0.1787	0.6179	0.3926
	62 G10Y	0.1	1.0	0.0	66.3	-101.63	56.61	116.35	151	12.33	35.71	0.2182	0.6323	0.4031
	63 G15Y	0.15	1.0	0.0	67.19	-89.87	67.86	112.62	143	14.75	36.88	0.2565	0.6414	0.4163
	64 G20Y	0.2	1.0	0.0	68.26	-78.15	77.63	110.16	135	17.6	38.32	0.2927	0.6372	0.4326
	65 G25Y	0.25	1.0	0.0	69.59	-67.67	84.15	107.99	129	20.78	40.16	0.3226	0.6235	0.4534
	66 G30Y	0.3	1.0	0.0	71.18	-59.35	91.01	108.66	123	24.09	42.45	0.3472	0.6119	0.4791
	67 G35Y	0.35	1.0	0.0	73.01	-51.7	95.6	108.69	118	27.81	45.18	0.3677	0.5974	0.51
	68 G40Y	0.4	1.0	0.0	75.07	-45.36	100.17	109.97	114	31.82	48.4	0.3847	0.5851	0.5463
	69 G45Y	0.45	1.0	0.0	77.32	-40.31	104.4	111.92	111	36.05	52.07	0.398	0.5749	0.5878
	70 G50Y	0.5	1.0	0.0	79.63	-36.36	108.12	114.07	109	40.36	56.02	0.4082	0.5666	0.6324
	71 G55Y	0.55	1.0	0.0	81.86	-33.17	111.22	116.07	107	44.63	60.04	0.4161	0.5598	0.6777
	72 G60Y	0.6	1.0	0.0	83.84	-30.41	114.07	118.05	105	48.64	63.76	0.4227	0.5541	0.7198
	73 G65Y	0.65	1.0	0.0	85.48	-27.63	116.77	120.0	103	52.32	66.96	0.429	0.549	0.7558
	74 G70Y	0.7	1.0	0.0	86.84	-24.84	119.23	121.79	102	55.7	69.68	0.435	0.5442	0.7866
	75 G75Y	0.75	1.0	0.0	87.97	-21.89	121.4	123.36	100	58.88	72.0	0.441	0.5393	0.8128
	76 G80Y	0.8	1.0	0.0	88.88	-18.67	123.05	124.46	99	61.89	73.91	0.4471	0.5339	0.8343
	77 G85Y	0.85	1.0	0.0	89.56	-15.11	124.45	125.37	97	64.71	75.35	0.4536	0.5282	0.8506
	78 G90Y	0.9	1.0	0.0	90.15	-11.09	125.44	125.93	95	67.66	76.63	0.4606	0.5217	0.865
	79 G95Y	0.95	1.0	0.0	90.7	-6.38	125.44	125.6	93	70.92	77.82	0.4682	0.5138	0.8784
	80 Y00R	0.0	1.0	0.0	90.76	-0.83	124.61	124.61	90	73.68	77.95	0.4769	0.5046	0.8799
	81 9500	1.0	1.0	1.0	18.01	0.0	0.0	0.01	0	2.4	2.52	0.3127	0.329	0.0284
	82 9000	0.944	0.944	0.944	25.06	0.0	0.0	0.01	0	4.21	4.43	0.3127	0.329	0.0501
	83 8500	0.889	0.889	0.889	30.62	0.0	0.0	0.01	139	6.17	6.49	0.3127	0.329	0.0733
	84 8000	0.833	0.833	0.833	35.41	0.0	0.0	0.01	0	8.27	8.7	0.3127	0.329	0.0982
	85 7500	0.778	0.778	0.778	39.73	0.0	0.0	0.01	280	10.54	11.09	0.3127	0.329	0.1252
	86 7000	0.722	0.722	0.722	43.75	0.0	0.0	0.01	0	12.99	13.67	0.3127	0.329	0.1543
	87 6500	0.667	0.667	0.667	47.58	0.0	0.0	0.01	158	15.65	16.46	0.3127	0.329	0.1858
	88 6000	0.611	0.611	0.611	51.28	0.0	0.0	0.01	158	18.55	19.51	0.3127	0.329	0.2203
	89 5500	0.556	0.556	0.556	54.92	0.0	0.0	0.01	0	21.72	22.85	0.3127	0.329	0.258
	90 5000	0.5	0.5	0.5	58.52	0.0	0.0	0.01	0	25.19	26.51	0.3127	0.329	0.2992
	91 4500	0.444	0.444	0.444	62.13	0.0	0.0	0.01	85	29.04	30.55	0.3127	0.329	0.3449
	92 4000	0.389	0.389	0.389	65.78	0.0	0.0	0.01	165	33.3	35.04	0.3127	0.329	0.3955
	93 3500	0.333	0.333	0.333	69.49	0.0	0.0	0.01	85	38.05	40.03	0.3127	0.329	0.4519
	94 3000	0.278	0.278	0.278	73.31	0.0	0.0	0.01	85	43.38	45.64	0.3127	0.329	0.5152
	95 2500	0.222	0.222	0.222	77.27	0.0	0.0	0.01	158	49.4	51.98	0.3127	0.329	0.5867
	96 2000	0.167	0.167	0.167	81.41	0.0	0.0	0.01	158	56.28	59.22	0.3127	0.329	0.6684
	97 1500	0.111	0.111	0.111	85.77	0.0	0.0	0.01	169	64.18	67.53	0.3127	0.329	0.7623
	98 1000	0.056	0.056	0.056	90.42	0.0	0.0	0.01	21	73.38	77.21	0.3127	0.329	0.8715
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	339	84.2	88.59	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 2.52) = 0.972$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS18a for CIE lightness $L^*=18$ of black for D65
 System NLS18a
 NCS-System **J Yellow**

D65 reflection: $LCH^*_a = 90.8 \ 124.6 \ 90$
 $Y_N = 2.52$
 $L^*_N = 18.01$ $LAB^*_a = 90.8 \ -0.8 \ 124.6$

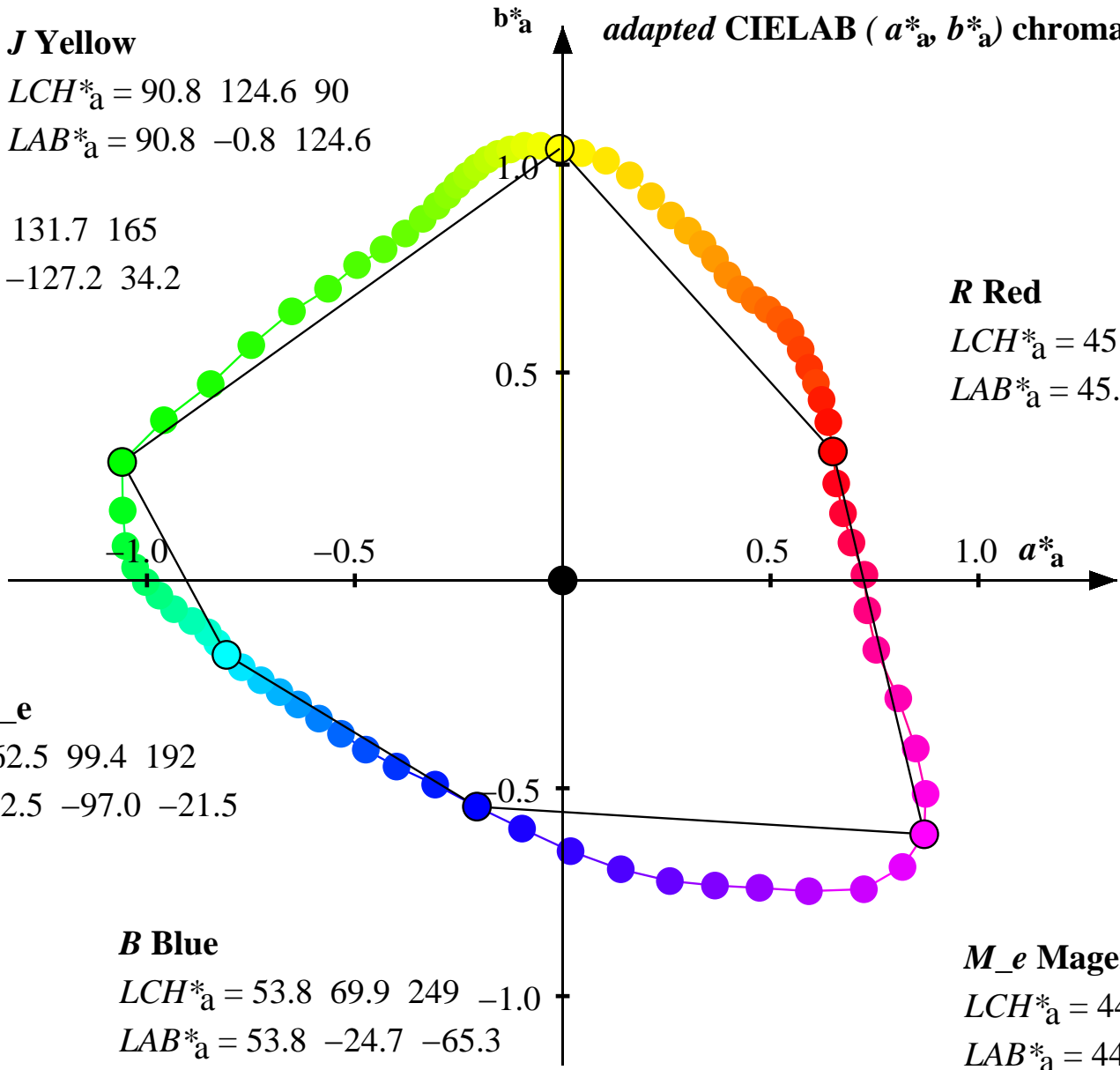
G Green
 $LCH^*_a = 65.0 \ 131.7 \ 165$
 $LAB^*_a = 65.0 \ -127.2 \ 34.2$

R Red
 $LCH^*_a = 45.7 \ 86.4 \ 25$
 $LAB^*_a = 45.7 \ 78.0 \ 37.2$

C_e Cyan_e
 $LCH^*_a = 62.5 \ 99.4 \ 192$
 $LAB^*_a = 62.5 \ -97.0 \ -21.5$

B Blue
 $LCH^*_a = 53.8 \ 69.9 \ 249 \ -1.0$
 $LAB^*_a = 53.8 \ -24.7 \ -65.3$

M_e Magenta_e
 $LCH^*_a = 44.2 \ 127.5 \ 325$
 $LAB^*_a = 44.2 \ 104.4 \ -73.2$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems
 TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS27a for CIE lightness L*=27 of black for D65

System NLS27a	Color	r=olv*1	g=olv*2	b=olv*3	L*a=LAB*1a	a*a=LAB*2a	b*a=LAB*3a	C*ab,a=LAB*ab,a	h*ab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
NCS-System	00 Y00R	1.0	1.0	0.0	90.9	-0.8	109.93	109.93	90	73.99	78.26	5.6	0.4687	0.4958	0.8834
	01 Y05R	1.0	0.95	0.0	90.0	5.42	108.58	108.71	87	75.12	76.3	5.55	0.4786	0.486	0.8612
	02 Y10R	1.0	0.9	0.0	88.0	12.09	105.97	106.66	83	74.18	72.06	5.37	0.4893	0.4753	0.8134
D65 reflection:	03 Y15R	1.0	0.85	0.0	84.93	18.63	101.41	103.11	80	70.99	65.86	5.21	0.4997	0.4636	0.7434
YN = 5.04	04 Y20R	1.0	0.8	0.0	81.45	24.6	95.53	98.65	76	66.84	59.29	5.18	0.509	0.4515	0.6693
L*N = 26.85	05 Y25R	1.0	0.75	0.0	78.39	29.98	90.21	95.06	72	63.38	53.88	5.19	0.5176	0.44	0.6082
	06 Y30R	1.0	0.7	0.0	75.7	34.69	85.87	92.61	68	60.43	49.4	5.13	0.5257	0.4297	0.5577
	07 Y35R	1.0	0.65	0.0	73.11	38.62	81.83	90.48	65	57.44	45.34	5.04	0.5327	0.4205	0.5118
	08 Y40R	1.0	0.6	0.0	70.66	42.01	77.74	88.36	62	54.57	41.7	5.01	0.5388	0.4117	0.4707
	09 Y45R	1.0	0.55	0.0	68.48	45.26	73.58	86.38	58	52.17	38.62	5.09	0.5441	0.4028	0.436
	10 Y50R	1.0	0.5	0.0	66.52	48.7	69.89	85.19	55	50.28	36.0	5.16	0.5499	0.3937	0.4063
	11 Y55R	1.0	0.45	0.0	64.71	52.44	66.88	84.99	52	48.78	33.68	5.14	0.5569	0.3845	0.3802
	12 Y60R	1.0	0.4	0.0	62.99	56.05	64.2	85.22	49	47.4	31.57	5.08	0.564	0.3756	0.3564
	13 Y65R	1.0	0.35	0.0	61.31	59.17	61.41	85.28	46	45.93	29.6	5.05	0.57	0.3673	0.3341
	14 Y70R	1.0	0.3	0.0	59.61	61.92	58.21	84.99	43	44.35	27.69	5.11	0.5748	0.3589	0.3126
	15 Y75R	1.0	0.25	0.0	57.84	64.46	54.13	84.18	40	42.63	25.79	5.33	0.578	0.3497	0.2911
	16 Y80R	1.0	0.2	0.0	56.02	66.54	49.87	83.16	37	40.73	23.93	5.58	0.5798	0.3407	0.2701
	17 Y85R	1.0	0.25	0.0	54.13	68.04	46.1	82.19	34	38.61	22.09	5.7	0.5815	0.3327	0.2494
	18 Y90R	1.0	0.1	0.0	52.2	69.29	41.96	81.0	31	36.45	20.32	5.89	0.5817	0.3244	0.2294
	19 Y95R	1.0	0.05	0.0	50.3	70.74	36.9	79.78	28	34.46	18.68	6.32	0.5796	0.3141	0.2108
	20 R00B	1.0	0.0	0.0	48.55	71.58	30.38	77.76	23	32.55	17.23	7.21	0.5711	0.3024	0.1945
	21 R05B	1.0	0.0	0.1	47.16	72.16	23.19	75.8	18	31.06	16.14	8.57	0.5569	0.2894	0.1822
	22 R10B	1.0	0.0	0.2	46.24	73.64	16.29	75.42	12	30.39	15.45	10.26	0.5417	0.2753	0.1743
	23 R15B	1.0	0.0	0.3	45.75	75.87	9.3	76.44	7	30.43	15.09	12.49	0.5246	0.2601	0.1703
	24 R20B	1.0	0.0	0.4	45.41	79.16	1.46	79.17	1	30.92	14.84	15.5	0.5047	0.2423	0.1675
	25 R25B	1.0	0.0	0.5	45.07	79.86	-7.59	80.22	355	30.71	14.59	19.58	0.4733	0.2249	0.1647
	26 R30B	1.0	0.0	0.6	44.97	82.22	-17.91	84.15	348	31.23	14.52	25.35	0.4392	0.2042	0.1639
	27 R35B	1.0	0.0	0.7	45.34	88.33	-30.96	93.6	341	33.37	14.79	34.79	0.4023	0.1783	0.1669
	28 R40B	1.0	0.0	0.8	45.93	93.31	-44.68	103.46	334	35.55	15.22	47.3	0.3625	0.1552	0.1718
	29 R45B	1.0	0.0	0.9	46.52	96.2	-57.28	111.97	329	37.18	15.65	61.22	0.326	0.1373	0.1767
	30 R50B	1.0	0.0	1.0	47.15	96.05	-68.56	118.01	324	37.96	16.13	76.03	0.2917	0.124	0.1821
	31 R55B	0.9	0.0	1.0	47.84	90.32	-77.8	119.21	319	37.12	16.67	90.25	0.2577	0.1157	0.1881
	32 R60B	0.8	0.0	1.0	48.6	79.93	-84.2	116.1	314	35.0	17.27	101.84	0.2271	0.1121	0.195
	33 R65B	0.7	0.0	1.0	49.33	65.24	-84.84	107.04	308	31.72	17.86	104.83	0.2054	0.1157	0.2016
	34 R70B	0.6	0.0	1.0	50.12	52.09	-84.09	98.92	302	29.12	18.52	105.79	0.1898	0.1207	0.209
	35 R75B	0.5	0.0	1.0	50.92	40.23	-83.51	92.71	296	27.0	19.2	107.1	0.1761	0.1253	0.2167
	36 R80B	0.4	0.0	1.0	51.66	28.23	-82.34	87.06	289	24.89	19.85	107.28	0.1637	0.1306	0.224
	37 R85B	0.3	0.0	1.0	52.38	15.24	-79.17	80.63	281	22.65	20.48	104.17	0.1537	0.1391	0.2312
	38 R90B	0.2	0.0	1.0	53.32	2.01	-74.15	74.18	272	20.69	21.34	98.87	0.1469	0.1514	0.2409
	39 R95B	0.1	0.0	1.0	54.53	-10.59	-68.03	68.86	261	19.21	22.48	92.84	0.1428	0.1671	0.2538
	40 B00G	0.0	0.0	1.0	55.81	-22.44	-62.02	65.97	250	17.99	23.72	87.36	0.1394	0.1838	0.2678
	41 B05G	0.0	0.1	1.0	56.98	-33.35	-55.93	65.14	239	16.91	24.91	81.75	0.1369	0.2016	0.2811
	42 B10G	0.0	0.2	1.0	58.06	-43.45	-50.99	67.0	230	15.95	26.03	77.66	0.1333	0.2176	0.2938
	43 B15G	0.0	0.3	1.0	59.05	-51.5	-46.39	69.33	222	15.3	27.08	73.94	0.1315	0.2328	0.3057
	44 B20G	0.0	0.4	1.0	59.97	-57.96	-42.0	71.59	216	14.88	28.09	70.45	0.1312	0.2476	0.317
	45 B25G	0.0	0.5	1.0	60.8	-63.77	-37.81	74.15	211	14.51	29.02	67.14	0.1311	0.2622	0.3276
	46 B30G	0.0	0.6	1.0	61.54	-69.18	-34.01	77.1	206	14.15	29.87	64.2	0.1308	0.276	0.3371
	47 B35G	0.0	0.7	1.0	62.21	-74.13	-30.58	80.2	202	13.83	30.65	61.63	0.1303	0.2889	0.346
	48 B40G	0.0	0.8	1.0	62.83	-78.9	-27.25	83.49	199	13.5	31.39	59.14	0.1298	0.3017	0.3543
	49 B45G	0.0	0.9	1.0	63.41	-83.87	-23.79	87.19	196	13.12	32.08	56.5	0.129	0.3154	0.3621

n = 28.67 / (28.67 + 5.04) = 0.851

See original or copy: http://web.me.com/klaus.richter/JE25/JE25LONA.TXT /.PS
Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS27a for CIE lightness $L^*=27$ of black for D65

System NLS27a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ_1a$	$Y_a=XYZ_2a$	$Z_a=XYZ_3a$	x_a	y_a	$Y_a/88.59$
NCS-System	50 B50G	0.0	1.0	1.0	63.9	-87.83	-20.35	90.17	193	12.84	32.68	0.1293	0.329	0.3689
	51 B55G	0.0	1.0	0.9	64.25	-90.27	-17.13	91.9	191	12.7	33.11	0.1309	0.3414	0.3737
	52 B60G	0.0	1.0	0.8	64.49	-92.61	-14.11	93.69	189	12.5	33.4	0.1323	0.3533	0.3771
D65 reflection:	53 B65G	0.0	1.0	0.7	64.64	-96.56	-11.07	97.2	187	12.02	33.59	0.1312	0.3665	0.3792
	54 B70G	0.0	1.0	0.6	64.78	-101.13	-7.78	101.44	184	11.46	33.77	0.1295	0.3815	0.3812
	55 B75G	0.0	1.0	0.5	64.92	-104.74	-4.19	104.83	182	11.05	33.95	0.1294	0.3975	0.3832
	56 B80G	0.0	1.0	0.4	65.07	-107.99	-0.48	108.0	180	10.7	34.14	0.1299	0.4143	0.3854
	57 B85G	0.0	1.0	0.3	65.2	-110.66	3.47	110.73	178	10.42	34.3	0.1313	0.4322	0.3872
	58 B90G	0.0	1.0	0.2	65.37	-113.0	9.29	113.39	175	10.21	34.52	0.1356	0.4582	0.3896
	59 B95G	0.0	1.0	0.1	65.73	-113.88	18.78	115.43	171	10.3	34.97	0.147	0.4991	0.3948
	60 G00Y	0.0	1.0	0.0	66.21	-114.28	31.37	118.52	165	10.52	35.6	0.1633	0.5526	0.4018
	61 G05Y	0.05	1.0	0.0	66.79	-104.43	41.95	112.55	158	12.23	36.36	0.1956	0.5815	0.4104
	62 G10Y	0.1	1.0	0.0	67.47	-93.04	50.71	105.97	151	14.43	37.26	0.2301	0.5942	0.4206
	63 G15Y	0.15	1.0	0.0	68.31	-82.89	59.8	102.22	144	16.78	38.39	0.2634	0.6027	0.4334
	64 G20Y	0.2	1.0	0.0	69.32	-72.58	67.32	99.0	137	19.55	39.79	0.2951	0.6006	0.4492
	65 G25Y	0.25	1.0	0.0	70.58	-63.24	72.37	96.11	131	22.64	41.58	0.3215	0.5905	0.4694
	66 G30Y	0.3	1.0	0.0	72.09	-55.77	77.6	95.57	126	25.85	43.8	0.3436	0.5823	0.4944
	67 G35Y	0.35	1.0	0.0	73.84	-48.82	81.48	94.99	121	29.46	46.45	0.3624	0.5714	0.5244
	68 G40Y	0.4	1.0	0.0	75.81	-43.03	85.48	95.71	117	33.35	49.57	0.3782	0.5622	0.5596
	69 G45Y	0.45	1.0	0.0	77.96	-38.39	89.4	97.3	113	37.46	53.14	0.391	0.5547	0.5998
	70 G50Y	0.5	1.0	0.0	80.17	-34.74	93.06	99.33	110	41.64	56.98	0.4009	0.5486	0.6432
	71 G55Y	0.55	1.0	0.0	82.31	-31.78	96.31	101.42	108	45.78	60.87	0.4088	0.5435	0.6871
	72 G60Y	0.6	1.0	0.0	84.22	-29.2	99.26	103.47	106	49.68	64.49	0.4154	0.5393	0.728
	73 G65Y	0.65	1.0	0.0	85.8	-26.58	101.91	105.32	105	53.25	67.59	0.4217	0.5353	0.763
	74 G70Y	0.7	1.0	0.0	87.11	-23.93	104.24	106.95	103	56.53	70.23	0.4277	0.5314	0.7928
	75 G75Y	0.75	1.0	0.0	88.2	-21.11	106.26	108.33	101	59.63	72.49	0.4336	0.5272	0.8183
	76 G80Y	0.8	1.0	0.0	89.08	-18.03	107.82	109.32	99	62.54	74.34	0.4397	0.5226	0.8391
	77 G85Y	0.85	1.0	0.0	89.74	-14.6	109.09	110.07	98	65.28	75.74	0.446	0.5175	0.8549
	78 G90Y	0.9	1.0	0.0	90.31	-10.72	110.06	110.58	96	68.14	76.98	0.4529	0.5116	0.869
	79 G95Y	0.95	1.0	0.0	90.84	-6.18	110.4	110.58	93	71.31	78.14	0.4603	0.5044	0.882
	80 Y00R	0.0	1.0	0.0	90.9	-0.8	109.93	109.93	90	73.99	78.26	0.4687	0.4958	0.8834
	81 9500	1.0	1.0	1.0	26.85	0.0	0.0	0.01	0	4.79	5.04	0.3127	0.329	0.0569
	82 9000	0.944	0.944	0.944	31.57	0.0	0.0	0.01	0	6.56	6.9	0.3127	0.329	0.0779
	83 8500	0.889	0.889	0.889	35.78	0.0	0.0	0.01	0	8.45	8.9	0.3127	0.329	0.1004
	84 8000	0.833	0.833	0.833	39.65	0.0	0.0	0.01	339	10.49	11.04	0.3127	0.329	0.1246
	85 7500	0.778	0.778	0.778	43.3	0.0	0.0	0.01	0	12.7	13.36	0.3127	0.329	0.1508
	86 7000	0.722	0.722	0.722	46.79	0.0	0.0	0.01	0	15.08	15.86	0.3127	0.329	0.1791
	87 6500	0.667	0.667	0.667	50.19	0.0	0.0	0.01	169	17.65	18.58	0.3127	0.329	0.2097
	88 6000	0.611	0.611	0.611	53.53	0.0	0.0	0.01	140	20.47	21.54	0.3127	0.329	0.2431
	89 5500	0.556	0.556	0.556	56.86	0.0	0.0	0.01	0	23.55	24.78	0.3127	0.329	0.2797
	90 5000	0.5	0.5	0.5	60.18	0.0	0.0	0.01	339	26.92	28.33	0.3127	0.329	0.3197
	91 4500	0.444	0.444	0.444	63.55	0.0	0.0	0.01	0	30.65	32.25	0.3127	0.329	0.364
	92 4000	0.389	0.389	0.389	66.98	0.0	0.0	0.01	169	34.79	36.6	0.3127	0.329	0.4132
	93 3500	0.333	0.333	0.333	70.49	0.0	0.0	0.01	158	39.4	41.45	0.3127	0.329	0.4679
	94 3000	0.278	0.278	0.278	74.13	0.0	0.0	0.01	0	44.57	46.9	0.3127	0.329	0.5294
	95 2500	0.222	0.222	0.222	77.91	0.0	0.0	0.01	180	50.42	53.05	0.3127	0.329	0.5988
	96 2000	0.167	0.167	0.167	81.88	0.0	0.0	0.01	158	57.1	60.08	0.3127	0.329	0.6782
	97 1500	0.111	0.111	0.111	86.08	0.0	0.0	0.01	165	64.77	68.15	0.3127	0.329	0.7692
	98 1000	0.056	0.056	0.056	90.57	0.0	0.0	0.01	88	73.69	77.54	0.3127	0.329	0.8753
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 5.04) = 0.946$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems
TUB material: code=rha4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS27a for CIE lightness $L^*=27$ of black for D65 System NLS27a

NCS-System **J Yellow**

D65 reflection: $LCH^*_a = 90.9 \ 109.9 \ 90$
 $Y_N = 5.04$
 $L^*_N = 26.85$ $LAB^*_a = 90.9 \ -0.8 \ 109.9$

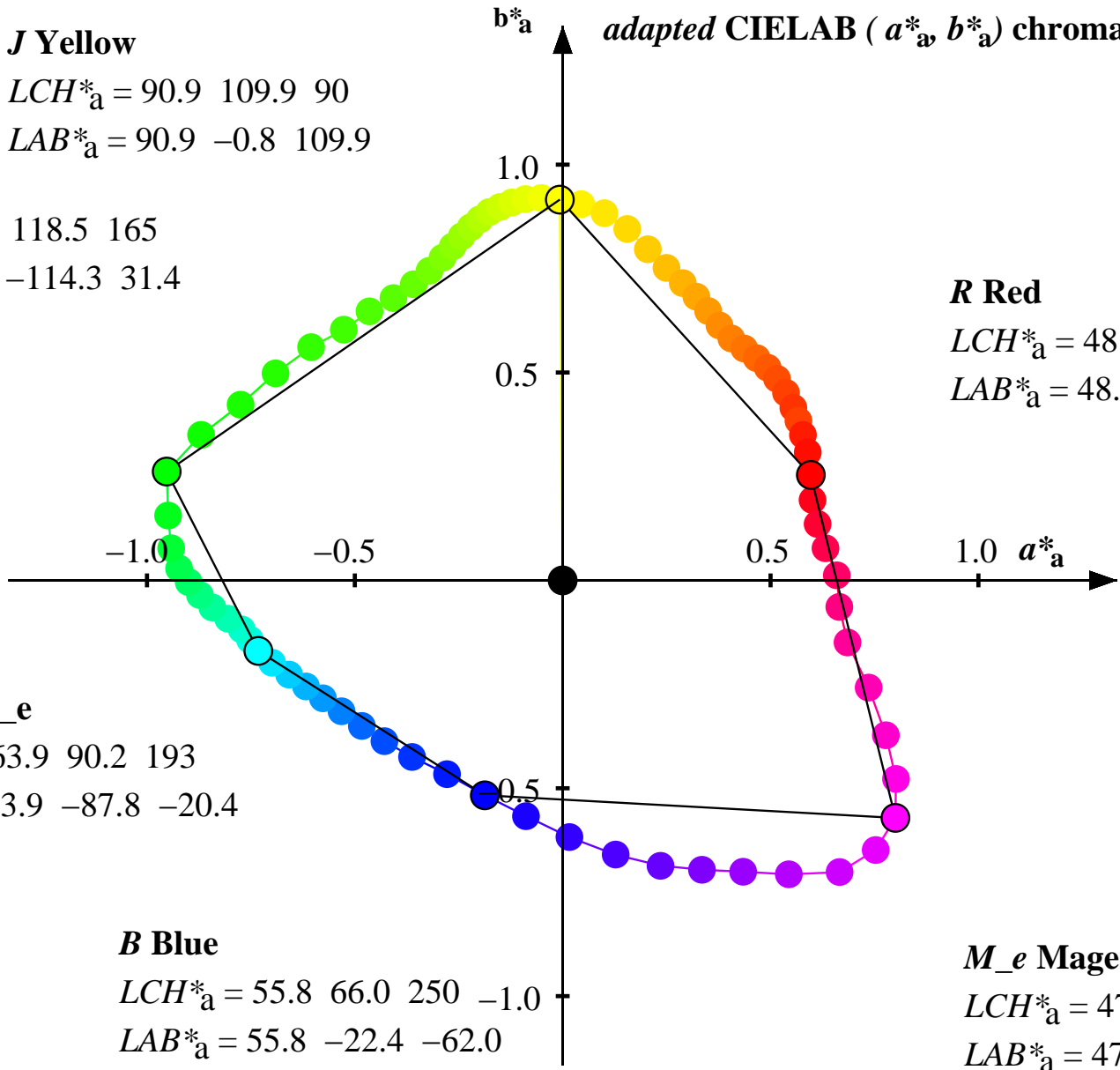
G Green
 $LCH^*_a = 66.2 \ 118.5 \ 165$
 $LAB^*_a = 66.2 \ -114.3 \ 31.4$

R Red
 $LCH^*_a = 48.6 \ 77.8 \ 23$
 $LAB^*_a = 48.6 \ 71.6 \ 30.4$

C_e Cyan_e
 $LCH^*_a = 63.9 \ 90.2 \ 193$
 $LAB^*_a = 63.9 \ -87.8 \ -20.4$

B Blue
 $LCH^*_a = 55.8 \ 66.0 \ 250 \ -1.0$
 $LAB^*_a = 55.8 \ -22.4 \ -62.0$

M_e Magenta_e
 $LCH^*_a = 47.1 \ 118.0 \ 324$
 $LAB^*_a = 47.1 \ 96.0 \ -68.6$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems
 TUB material: code=rh4ta

N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS38a for CIE lightness $L^*=38$ of black for D65

System NLS38a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	91.18	-0.75	91.42	91.42	90	74.61	78.89	11.08	0.4533	0.4793	0.8905
	01 Y05R	1.0	0.95	0.0	90.34	5.06	90.09	90.23	87	75.67	77.04	11.04	0.4621	0.4705	0.8696
	02 Y10R	1.0	0.9	0.0	88.48	11.27	87.37	88.1	83	74.78	73.06	10.86	0.4712	0.4603	0.8247
D65 reflection:	03 Y15R	1.0	0.85	0.0	85.62	17.32	82.88	84.67	78	71.78	67.23	10.71	0.4794	0.449	0.7589
$Y_N = 10.08$	04 Y20R	1.0	0.8	0.0	82.41	22.77	77.41	80.69	74	67.89	61.06	10.69	0.4862	0.4373	0.6892
$L^*_N = 37.99$	05 Y25R	1.0	0.75	0.0	79.6	27.64	72.53	77.62	69	64.63	55.97	10.7	0.4922	0.4263	0.6318
	06 Y30R	1.0	0.7	0.0	77.14	31.86	68.47	75.52	65	61.87	51.77	10.64	0.4978	0.4166	0.5844
	07 Y35R	1.0	0.65	0.0	74.79	35.31	64.66	73.67	61	59.05	47.95	10.56	0.5023	0.4079	0.5412
	08 Y40R	1.0	0.6	0.0	72.58	38.24	60.92	71.93	58	56.35	44.53	10.53	0.5058	0.3997	0.5027
	09 Y45R	1.0	0.55	0.0	70.62	41.02	57.32	70.48	54	54.1	41.64	10.61	0.5087	0.3915	0.47
	10 Y50R	1.0	0.5	0.0	68.87	43.96	54.13	69.73	51	52.32	39.17	10.67	0.5122	0.3834	0.4421
	11 Y55R	1.0	0.45	0.0	67.27	47.16	51.43	69.78	47	50.92	36.99	10.65	0.5166	0.3754	0.4176
	12 Y60R	1.0	0.4	0.0	65.76	50.21	48.99	70.15	44	49.62	35.01	10.59	0.5211	0.3677	0.3952
	13 Y65R	1.0	0.35	0.0	64.29	52.78	46.52	70.36	41	48.24	33.16	10.57	0.5246	0.3605	0.3743
	14 Y70R	1.0	0.3	0.0	62.81	54.99	43.82	70.31	39	46.75	31.36	10.62	0.5269	0.3534	0.354
	15 Y75R	1.0	0.25	0.0	61.29	56.95	40.59	69.93	35	45.13	29.58	10.83	0.5276	0.3458	0.3339
	16 Y80R	1.0	0.2	0.0	59.74	58.44	37.25	69.3	33	43.35	27.83	11.06	0.5271	0.3384	0.3142
	17 Y85R	1.0	0.25	0.0	58.14	59.35	34.19	68.49	30	41.36	26.11	11.17	0.526	0.332	0.2947
	18 Y90R	1.0	0.1	0.0	56.53	59.97	30.92	67.47	27	39.33	24.44	11.35	0.5235	0.3254	0.2759
	19 Y95R	1.0	0.05	0.0	54.96	60.73	27.12	66.51	24	37.46	22.89	11.75	0.5195	0.3175	0.2584
	20 R00B	1.0	0.0	0.0	53.53	60.94	22.43	64.93	20	35.67	21.54	12.6	0.511	0.3086	0.2431
	21 R05B	1.0	0.0	0.1	52.41	60.99	17.32	63.4	16	34.26	20.51	13.87	0.4991	0.2988	0.2315
	22 R10B	1.0	0.0	0.2	51.68	61.96	12.34	63.18	11	33.63	19.86	15.46	0.4878	0.288	0.2242
	23 R15B	1.0	0.0	0.3	51.29	63.74	7.17	64.15	6	33.67	19.52	17.55	0.476	0.2759	0.2204
	24 R20B	1.0	0.0	0.4	51.02	66.51	1.14	66.52	1	34.13	19.29	20.38	0.4625	0.2613	0.2177
	25 R25B	1.0	0.0	0.5	50.75	66.99	-6.08	67.26	355	33.93	19.05	24.22	0.4395	0.2468	0.2151
	26 R30B	1.0	0.0	0.6	50.67	69.03	-14.66	70.57	348	34.42	18.99	29.64	0.4145	0.2286	0.2143
	27 R35B	1.0	0.0	0.7	50.97	74.57	-25.97	78.97	341	36.44	19.24	38.51	0.3868	0.2043	0.2172
	28 R40B	1.0	0.0	0.8	51.43	79.25	-38.3	88.02	334	38.48	19.64	50.26	0.355	0.1812	0.2217
	29 R45B	1.0	0.0	0.9	51.9	82.08	-49.89	96.06	329	40.01	20.05	63.35	0.3242	0.1625	0.2264
	30 R50B	1.0	0.0	1.0	52.4	82.2	-60.45	102.04	324	40.75	20.5	77.26	0.2942	0.148	0.2314
	31 R55B	0.9	0.0	1.0	52.96	77.35	-69.23	103.82	318	39.96	21.01	90.62	0.2636	0.1386	0.2371
	32 R60B	0.8	0.0	1.0	53.57	68.36	-75.42	101.8	312	37.97	21.58	101.52	0.2357	0.134	0.2435
	33 R65B	0.7	0.0	1.0	54.16	55.57	-76.19	94.31	306	34.88	22.13	104.32	0.2162	0.1372	0.2498
	34 R70B	0.6	0.0	1.0	54.81	44.23	-75.65	87.64	300	32.44	22.74	105.23	0.2022	0.1418	0.2567
	35 R75B	0.5	0.0	1.0	55.47	34.07	-75.28	82.64	294	30.45	23.39	106.46	0.19	0.1459	0.264
	36 R80B	0.4	0.0	1.0	56.08	23.84	-74.32	78.06	288	28.47	23.99	106.62	0.1789	0.1508	0.2708
	37 R85B	0.3	0.0	1.0	56.68	12.82	-71.47	72.62	280	26.36	24.59	103.71	0.1704	0.159	0.2776
	38 R90B	0.2	0.0	1.0	57.46	1.69	-66.91	66.94	271	24.52	25.4	98.72	0.165	0.1709	0.2867
	39 R95B	0.1	0.0	1.0	58.48	-8.86	-61.37	62.02	262	23.13	26.47	93.05	0.1621	0.1856	0.2988
	40 B00G	0.0	0.0	1.0	59.56	-18.76	-55.95	59.02	251	21.98	27.64	87.91	0.1598	0.201	0.312
	41 B05G	0.0	0.1	1.0	60.56	-27.85	-50.42	57.62	241	20.97	28.75	82.64	0.1584	0.2172	0.3245
	42 B10G	0.0	0.2	1.0	61.48	-36.25	-45.96	58.55	232	20.07	29.8	78.79	0.156	0.2316	0.3364
	43 B15G	0.0	0.3	1.0	62.33	-42.96	-41.8	59.96	224	19.45	30.79	75.3	0.1549	0.2453	0.3476
	44 B20G	0.0	0.4	1.0	63.12	-48.38	-37.83	61.42	218	19.06	31.74	72.02	0.1552	0.2584	0.3582
	45 B25G	0.0	0.5	1.0	63.85	-53.26	-34.04	63.22	213	18.72	32.61	68.91	0.1557	0.2712	0.3681
	46 B30G	0.0	0.6	1.0	64.49	-57.79	-30.6	65.4	208	18.38	33.41	66.14	0.1558	0.2833	0.3771
	47 B35G	0.0	0.7	1.0	65.08	-61.94	-27.5	67.78	204	18.07	34.15	63.73	0.1559	0.2945	0.3854
	48 B40G	0.0	0.8	1.0	65.62	-65.92	-24.49	70.34	200	17.76	34.84	61.39	0.1558	0.3056	0.3932
	49 B45G	0.0	0.9	1.0	66.13	-70.04	-21.36	73.24	197	17.41	35.49	58.91	0.1557	0.3174	0.4006

$n = 28.67 / (28.67 + 10.08) = 0.74$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS38a for CIE lightness $L^*=38$ of black for D65

System NLS38a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$
NCS-System	50 B50G	0.0	1.0	1.0	66.56	-73.34	-18.24	75.59	194	17.14	36.05	0.1565	0.329	0.4069
	51 B55G	0.0	1.0	0.9	66.86	-75.39	-15.34	76.94	192	17.01	36.45	0.1584	0.3395	0.4115
	52 B60G	0.0	1.0	0.8	67.08	-77.31	-12.61	78.34	189	16.83	36.73	0.1601	0.3495	0.4146
D65 reflection:	53 B65G	0.0	1.0	0.7	67.21	-80.41	-9.87	81.02	187	16.38	36.91	0.16	0.3606	0.4166
$Y_N = 10.08$	54 B70G	0.0	1.0	0.6	67.34	-83.97	-6.92	84.26	185	15.85	37.08	0.1594	0.3729	0.4185
$L^*_N = 37.99$	55 B75G	0.0	1.0	0.5	67.46	-86.77	-3.72	86.86	182	15.46	37.25	0.1603	0.386	0.4204
	56 B80G	0.0	1.0	0.4	67.59	-89.28	-0.42	89.3	180	15.14	37.42	0.1616	0.3995	0.4224
	57 B85G	0.0	1.0	0.3	67.7	-91.35	3.06	91.41	178	14.87	37.57	0.1638	0.4138	0.4241
	58 B90G	0.0	1.0	0.2	67.86	-93.19	8.14	93.55	175	14.68	37.78	0.1687	0.4341	0.4264
	59 B95G	0.0	1.0	0.1	68.17	-94.07	16.27	95.47	170	14.76	38.21	0.1798	0.4655	0.4313
	60 G00Y	0.0	1.0	0.0	68.6	-94.66	26.73	98.37	164	14.96	38.8	0.1949	0.5053	0.4379
	61 G05Y	0.05	1.0	0.0	69.12	-87.55	35.16	94.36	158	16.57	39.51	0.221	0.5268	0.4459
	62 G10Y	0.1	1.0	0.0	69.72	-78.99	41.88	89.41	152	18.64	40.36	0.248	0.5369	0.4555
	63 G15Y	0.15	1.0	0.0	70.47	-71.16	48.55	86.15	146	20.85	41.42	0.274	0.5443	0.4676
	64 G20Y	0.2	1.0	0.0	71.38	-62.99	53.93	82.93	139	23.45	42.74	0.2987	0.5444	0.4824
	65 G25Y	0.25	1.0	0.0	72.51	-55.44	57.68	80.01	134	26.35	44.42	0.3198	0.539	0.5014
	66 G30Y	0.3	1.0	0.0	73.87	-49.33	61.63	78.95	129	29.37	46.5	0.3378	0.5349	0.5249
	67 G35Y	0.35	1.0	0.0	75.45	-43.56	64.87	78.14	124	32.77	48.99	0.3537	0.5289	0.553
	68 G40Y	0.4	1.0	0.0	77.24	-38.7	68.3	78.51	120	36.42	51.93	0.3675	0.524	0.5861
	69 G45Y	0.45	1.0	0.0	79.2	-34.78	71.81	79.79	116	40.28	55.28	0.379	0.5202	0.624
	70 G50Y	0.5	1.0	0.0	81.23	-31.66	75.22	81.62	113	44.21	58.88	0.3884	0.5173	0.6647
	71 G55Y	0.55	1.0	0.0	83.2	-29.12	78.37	83.61	110	48.1	62.54	0.396	0.5149	0.706
	72 G60Y	0.6	1.0	0.0	84.97	-26.87	81.21	85.54	108	51.76	65.94	0.4025	0.5127	0.7444
	73 G65Y	0.65	1.0	0.0	86.43	-24.54	83.69	87.22	106	55.12	68.86	0.4086	0.5104	0.7773
	74 G70Y	0.7	1.0	0.0	87.65	-22.16	85.83	88.65	104	58.2	71.34	0.4144	0.508	0.8053
	75 G75Y	0.75	1.0	0.0	88.67	-19.59	87.66	89.82	103	61.11	73.46	0.4201	0.5051	0.8292
	76 G80Y	0.8	1.0	0.0	89.49	-16.76	89.1	90.67	101	63.85	75.2	0.4259	0.5016	0.8488
	77 G85Y	0.85	1.0	0.0	90.1	-13.6	90.24	91.26	99	66.42	76.52	0.4319	0.4976	0.8637
	78 G90Y	0.9	1.0	0.0	90.63	-10.0	91.15	91.7	96	69.11	77.68	0.4384	0.4928	0.8769
	79 G95Y	0.95	1.0	0.0	91.13	-5.77	91.67	91.85	94	72.08	78.77	0.4455	0.4868	0.8891
	80 Y00R	0.0	1.0	0.0	91.18	-0.75	91.42	91.42	90	74.61	78.89	0.4533	0.4793	0.8905
	81 9500	1.0	1.0	1.0	37.99	0.0	0.0	0.01	0	9.58	10.08	0.3127	0.329	0.1138
	82 9000	0.944	0.944	0.944	40.94	0.0	0.0	0.01	0	11.24	11.83	0.3127	0.329	0.1335
	83 8500	0.889	0.889	0.889	43.8	0.0	0.0	0.01	0	13.02	13.7	0.3127	0.329	0.1547
	84 8000	0.833	0.833	0.833	46.61	0.0	0.0	0.01	0	14.94	15.72	0.3127	0.329	0.1775
	85 7500	0.778	0.778	0.778	49.37	0.0	0.0	0.01	0	17.01	17.9	0.3127	0.329	0.202
	86 7000	0.722	0.722	0.722	52.12	0.0	0.0	0.01	0	19.25	20.25	0.3127	0.329	0.2286
	87 6500	0.667	0.667	0.667	54.86	0.0	0.0	0.01	158	21.67	22.8	0.3127	0.329	0.2574
	88 6000	0.611	0.611	0.611	57.64	0.0	0.0	0.01	158	24.31	25.58	0.3127	0.329	0.2888
	89 5500	0.556	0.556	0.556	60.45	0.0	0.0	0.01	0	27.21	28.63	0.3127	0.329	0.3231
	90 5000	0.5	0.5	0.5	63.31	0.0	0.0	0.01	0	30.38	31.96	0.3127	0.329	0.3608
	91 4500	0.444	0.444	0.444	66.25	0.0	0.0	0.01	85	33.88	35.65	0.3127	0.329	0.4024
	92 4000	0.389	0.389	0.389	69.28	0.0	0.0	0.01	158	37.77	39.74	0.3127	0.329	0.4486
	93 3500	0.333	0.333	0.333	72.43	0.0	0.0	0.01	85	42.1	44.3	0.3127	0.329	0.5
	94 3000	0.278	0.278	0.278	75.71	0.0	0.0	0.01	158	46.96	49.41	0.3127	0.329	0.5578
	95 2500	0.222	0.222	0.222	79.15	0.0	0.0	0.01	0	52.46	55.19	0.3127	0.329	0.623
	96 2000	0.167	0.167	0.167	82.81	0.0	0.0	0.01	158	58.73	61.8	0.3127	0.329	0.6976
	97 1500	0.111	0.111	0.111	86.69	0.0	0.0	0.01	169	65.94	69.38	0.3127	0.329	0.7832
	98 1000	0.056	0.056	0.056	90.87	0.0	0.0	0.01	88	74.33	78.21	0.3127	0.329	0.8828
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 10.08) = 0.898$

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS38a for CIE lightness $L^*=38$ of black for D65

System NLS38a
 NCS-System

J Yellow

D65 reflection: $LCH^*_a = 91.2 \ 91.4 \ 90$

$Y_N = 10.08$

$L^*_N = 37.99$ $LAB^*_a = 91.2 \ -0.8 \ 91.4$

G Green

$LCH^*_a = 68.6 \ 98.4 \ 164$

$LAB^*_a = 68.6 \ -94.7 \ 26.7$

C_e Cyan_e

$LCH^*_a = 66.6 \ 75.6 \ 194$

$LAB^*_a = 66.6 \ -73.4 \ -18.3$

B Blue

$LCH^*_a = 59.6 \ 59.0 \ 251 \ -1.0$

$LAB^*_a = 59.6 \ -18.8 \ -56.0$

R Red

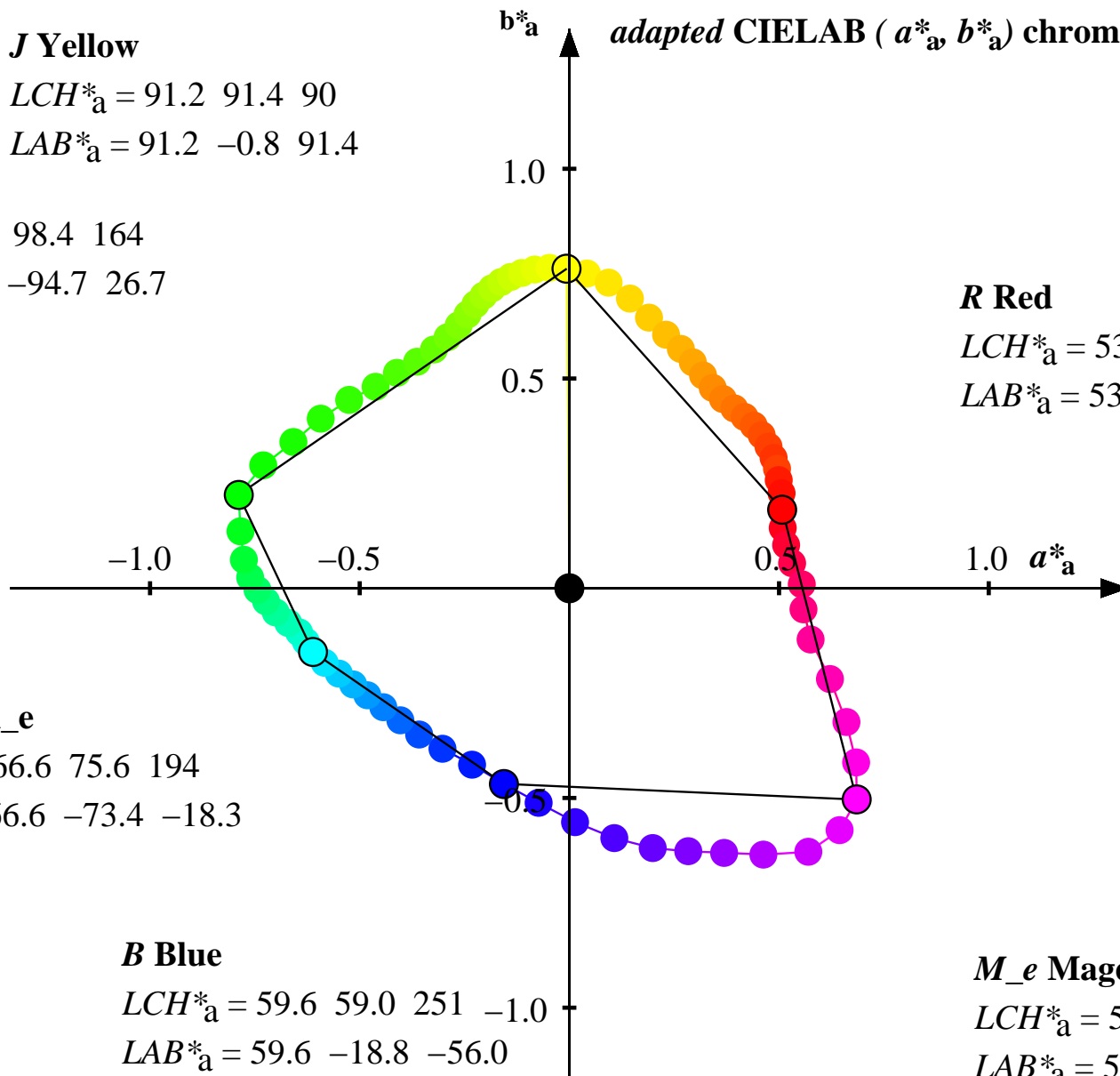
$LCH^*_a = 53.5 \ 64.9 \ 20$

$LAB^*_a = 53.5 \ 60.9 \ 22.4$

M_e Magenta_e

$LCH^*_a = 52.4 \ 102.0 \ 324$

$LAB^*_a = 52.4 \ 82.2 \ -60.5$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS52a for CIE lightness $L^*=52$ of black for D65

System NLS52a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	91.74	-0.64	68.33	68.33	91	75.84	80.13	22.04	0.426	0.4502	0.9045
	01 Y05R	1.0	0.95	0.0	91.02	4.36	67.14	67.28	86	76.76	78.52	22.01	0.433	0.4429	0.8863
	02 Y10R	1.0	0.9	0.0	89.42	9.69	64.66	65.38	81	75.99	75.05	21.85	0.4395	0.4341	0.8472
D65 reflection:	03 Y15R	1.0	0.85	0.0	86.98	14.79	60.7	62.47	76	73.38	69.97	21.72	0.4445	0.4239	0.7899
$Y_N = 20.16$	04 Y20R	1.0	0.8	0.0	84.27	19.29	56.06	59.29	71	69.98	64.59	21.7	0.4478	0.4133	0.7291
$L^*_N = 52.02$	05 Y25R	1.0	0.75	0.0	81.92	23.23	51.99	56.95	66	67.14	60.16	21.71	0.4506	0.4037	0.6791
	06 Y30R	1.0	0.7	0.0	79.89	26.59	48.59	55.39	61	64.73	56.5	21.66	0.453	0.3954	0.6377
	07 Y35R	1.0	0.65	0.0	77.97	29.24	45.4	54.01	57	62.28	53.17	21.59	0.4545	0.388	0.6001
	08 Y40R	1.0	0.6	0.0	76.18	31.41	42.36	52.74	53	59.93	50.19	21.56	0.4551	0.3811	0.5665
	09 Y45R	1.0	0.55	0.0	74.61	33.45	39.53	51.78	50	57.96	47.66	21.63	0.4555	0.3746	0.538
	10 Y50R	1.0	0.5	0.0	73.23	35.6	37.05	51.38	46	56.42	45.51	21.68	0.4564	0.3682	0.5138
	11 Y55R	1.0	0.45	0.0	71.97	37.95	34.92	51.57	43	55.19	43.62	21.66	0.4581	0.3621	0.4924
	12 Y60R	1.0	0.4	0.0	70.8	40.16	32.98	51.97	39	54.06	41.89	21.62	0.4598	0.3563	0.4729
	13 Y65R	1.0	0.35	0.0	69.66	41.94	31.06	52.19	37	52.86	40.27	21.59	0.4607	0.351	0.4546
	14 Y70R	1.0	0.3	0.0	68.54	43.39	29.04	52.21	34	51.56	38.71	21.64	0.4607	0.3459	0.437
	15 Y75R	1.0	0.25	0.0	67.39	44.58	26.74	51.98	31	50.15	37.16	21.82	0.4595	0.3405	0.4194
	16 Y80R	1.0	0.2	0.0	66.24	45.35	24.38	51.49	28	48.6	35.63	22.03	0.4573	0.3353	0.4022
	17 Y85R	1.0	0.25	0.0	65.06	45.59	22.19	50.7	26	46.86	34.13	22.12	0.4545	0.331	0.3852
	18 Y90R	1.0	0.1	0.0	63.9	45.56	19.91	49.72	24	45.09	32.68	22.28	0.4507	0.3266	0.3689
	19 Y95R	1.0	0.05	0.0	62.78	45.63	17.37	48.82	21	43.46	31.33	22.63	0.4461	0.3216	0.3536
	20 R00B	1.0	0.0	0.0	61.78	45.27	14.37	47.5	18	41.9	30.15	23.36	0.4391	0.316	0.3403
	21 R05B	1.0	0.0	0.1	61.0	44.89	11.16	46.25	14	40.67	29.25	24.47	0.4309	0.3099	0.3302
	22 R10B	1.0	0.0	0.2	60.5	45.35	8.04	46.06	10	40.13	28.68	25.86	0.4239	0.303	0.3238
	23 R15B	1.0	0.0	0.3	60.24	46.58	4.75	46.82	6	40.16	28.39	27.68	0.4173	0.295	0.3205
	24 R20B	1.0	0.0	0.4	60.06	48.61	0.77	48.62	1	40.56	28.19	30.15	0.4101	0.285	0.3182
	25 R25B	1.0	0.0	0.5	59.87	48.87	-4.19	49.05	355	40.39	27.98	33.49	0.3965	0.2747	0.3159
	26 R30B	1.0	0.0	0.6	59.82	50.42	-10.35	51.47	348	40.82	27.93	38.22	0.3816	0.2611	0.3152
	27 R35B	1.0	0.0	0.7	60.02	54.89	-18.94	58.07	341	42.57	28.14	45.95	0.3649	0.2412	0.3177
	28 R40B	1.0	0.0	0.8	60.33	58.8	-28.81	65.48	334	44.35	28.49	56.19	0.3437	0.2208	0.3217
	29 R45B	1.0	0.0	0.9	60.65	61.28	-38.45	72.35	328	45.69	28.85	67.6	0.3214	0.203	0.3257
	30 R50B	1.0	0.0	1.0	61.0	61.62	-47.51	77.82	322	46.33	29.24	79.73	0.2983	0.1883	0.3301
	31 R55B	0.9	0.0	1.0	61.38	58.01	-55.22	80.1	316	45.64	29.68	91.37	0.2738	0.1781	0.3351
	32 R60B	0.8	0.0	1.0	61.81	51.13	-60.81	79.45	310	43.9	30.18	100.87	0.2509	0.1725	0.3407
	33 R65B	0.7	0.0	1.0	62.22	41.31	-61.66	74.22	304	41.21	30.66	103.31	0.2353	0.175	0.3461
	34 R70B	0.6	0.0	1.0	62.67	32.71	-61.38	69.56	298	39.09	31.2	104.1	0.2241	0.1789	0.3522
	35 R75B	0.5	0.0	1.0	63.14	25.1	-61.24	66.2	292	37.35	31.76	105.18	0.2143	0.1822	0.3585
	36 R80B	0.4	0.0	1.0	63.58	17.48	-60.58	63.06	286	35.62	32.29	105.32	0.2056	0.1864	0.3645
	37 R85B	0.3	0.0	1.0	64.01	9.35	-58.24	58.99	279	33.79	32.81	102.78	0.1995	0.1937	0.3703
	38 R90B	0.2	0.0	1.0	64.57	1.22	-54.46	54.48	271	32.18	33.51	98.43	0.1961	0.2042	0.3782
	39 R95B	0.1	0.0	1.0	65.31	-6.41	-49.89	50.31	263	30.97	34.45	93.49	0.1949	0.2168	0.3888
	40 B00G	0.0	0.0	1.0	66.11	-13.57	-45.43	47.43	253	29.97	35.46	89.01	0.1941	0.2296	0.4003
	41 B05G	0.0	0.1	1.0	66.85	-20.14	-40.88	45.58	244	29.09	36.43	84.41	0.194	0.243	0.4112
	42 B10G	0.0	0.2	1.0	67.54	-26.19	-37.22	45.53	235	28.3	37.35	81.06	0.1929	0.2546	0.4216
	43 B15G	0.0	0.3	1.0	68.18	-31.05	-33.82	45.93	227	27.77	38.21	78.02	0.1928	0.2654	0.4314
	44 B20G	0.0	0.4	1.0	68.78	-35.01	-30.58	46.5	221	27.42	39.04	75.16	0.1936	0.2756	0.4406
	45 B25G	0.0	0.5	1.0	69.33	-38.59	-27.48	47.38	215	27.12	39.8	72.45	0.1946	0.2856	0.4493
	46 B30G	0.0	0.6	1.0	69.82	-41.9	-24.67	48.64	210	26.83	40.49	70.03	0.1953	0.2948	0.4571
	47 B35G	0.0	0.7	1.0	70.27	-44.94	-22.14	50.11	206	26.56	41.14	67.93	0.1959	0.3033	0.4643
	48 B40G	0.0	0.8	1.0	70.69	-47.85	-19.7	51.76	202	26.29	41.74	65.89	0.1963	0.3117	0.4711
	49 B45G	0.0	0.9	1.0	71.08	-50.84	-17.15	53.66	199	25.98	42.31	63.73	0.1968	0.3205	0.4776

$n = 28.67 / (28.67 + 20.16) = 0.587$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS52a for CIE lightness $L^*=52$ of black for D65

System NLS52a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_{1a}$	$a^*_a=LAB^*_{2a}$	$b^*_a=LAB^*_{3a}$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
NCS-System	50 B50G	0.0	1.0	1.0	71.42	-53.24	-14.61	55.22	195	25.75	42.8	0.198	0.329	0.4831
	51 B55G	0.0	1.0	0.9	71.65	-54.75	-12.25	56.11	193	25.64	43.15	0.2	0.3367	0.487
	52 B60G	0.0	1.0	0.8	71.82	-56.13	-10.04	57.03	190	25.48	43.39	0.2019	0.3439	0.4898
D65 reflection:	53 B65G	0.0	1.0	0.7	71.92	-58.24	-7.83	58.78	188	25.09	43.55	0.2026	0.3518	0.4915
	54 B70G	0.0	1.0	0.6	72.02	-60.63	-5.47	60.89	185	24.63	43.69	0.2031	0.3604	0.4932
	55 B75G	0.0	1.0	0.5	72.12	-62.52	-2.93	62.6	183	24.29	43.84	0.2047	0.3694	0.4948
	56 B80G	0.0	1.0	0.4	72.22	-64.22	-0.33	64.23	180	24.0	43.99	0.2065	0.3785	0.4966
	57 B85G	0.0	1.0	0.3	72.31	-65.6	2.38	65.66	178	23.77	44.12	0.209	0.388	0.4981
	58 B90G	0.0	1.0	0.2	72.43	-66.87	6.28	67.17	175	23.6	44.3	0.2138	0.4012	0.5001
	59 B95G	0.0	1.0	0.1	72.68	-67.63	12.37	68.76	170	23.67	44.68	0.2231	0.421	0.5043
	60 G00Y	0.0	1.0	0.0	73.02	-68.29	19.89	71.14	164	23.85	45.19	0.235	0.4453	0.5101
	61 G05Y	0.05	1.0	0.0	73.42	-63.98	25.69	68.96	158	25.25	45.81	0.2527	0.4584	0.5171
	62 G10Y	0.1	1.0	0.0	73.9	-58.57	30.16	65.89	153	27.06	46.55	0.2703	0.4651	0.5254
	63 G15Y	0.15	1.0	0.0	74.49	-53.51	34.48	63.66	147	28.98	47.48	0.2872	0.4706	0.5359
	64 G20Y	0.2	1.0	0.0	75.22	-48.05	37.96	61.24	142	31.25	48.62	0.3034	0.4721	0.5489
	65 G25Y	0.25	1.0	0.0	76.12	-42.9	40.54	59.04	137	33.78	50.09	0.3175	0.4708	0.5654
	66 G30Y	0.3	1.0	0.0	77.22	-38.69	43.33	58.1	132	36.41	51.9	0.33	0.4704	0.5859
	67 G35Y	0.35	1.0	0.0	78.51	-34.63	45.82	57.44	127	39.37	54.08	0.3414	0.469	0.6104
	68 G40Y	0.4	1.0	0.0	79.97	-31.15	48.54	57.69	123	42.55	56.63	0.3518	0.4683	0.6393
	69 G45Y	0.45	1.0	0.0	81.6	-28.33	51.41	58.7	119	45.92	59.56	0.361	0.4682	0.6723
	70 G50Y	0.5	1.0	0.0	83.28	-26.07	54.27	60.21	116	49.34	62.7	0.3688	0.4686	0.7077
	71 G55Y	0.55	1.0	0.0	84.94	-24.2	56.98	61.92	113	52.74	65.89	0.3755	0.4691	0.7437
	72 G60Y	0.6	1.0	0.0	86.43	-22.51	59.44	63.57	111	55.93	68.85	0.3813	0.4694	0.7772
	73 G65Y	0.65	1.0	0.0	87.67	-20.68	61.56	64.95	109	58.85	71.39	0.3868	0.4692	0.8059
	74 G70Y	0.7	1.0	0.0	88.71	-18.77	63.38	66.1	107	61.54	73.56	0.392	0.4686	0.8303
	75 G75Y	0.75	1.0	0.0	89.58	-16.66	64.92	67.02	104	64.07	75.4	0.3971	0.4674	0.8512
	76 G80Y	0.8	1.0	0.0	90.28	-14.31	66.14	67.68	102	66.46	76.92	0.4022	0.4655	0.8682
	77 G85Y	0.85	1.0	0.0	90.81	-11.64	67.1	68.1	100	68.7	78.07	0.4075	0.463	0.8812
	78 G90Y	0.9	1.0	0.0	91.27	-8.58	67.88	68.43	97	71.05	79.08	0.4131	0.4599	0.8927
	79 G95Y	0.95	1.0	0.0	91.7	-4.96	68.44	68.62	94	73.64	80.03	0.4193	0.4557	0.9033
	80 Y00R	0.0	1.0	0.0	91.74	-0.64	68.33	68.33	91	75.84	80.13	0.426	0.4502	0.9045
	81 9500	1.0	1.0	1.0	52.02	0.0	0.0	0.01	0	19.16	20.16	0.3127	0.329	0.2276
	82 9000	0.944	0.944	0.944	53.69	0.0	0.0	0.01	0	20.61	21.68	0.3127	0.329	0.2447
	83 8500	0.889	0.889	0.889	55.4	0.0	0.0	0.01	85	22.16	23.32	0.3127	0.329	0.2632
	84 8000	0.833	0.833	0.833	57.15	0.0	0.0	0.01	0	23.83	25.08	0.3127	0.329	0.2831
	85 7500	0.778	0.778	0.778	58.95	0.0	0.0	0.01	0	25.64	26.97	0.3127	0.329	0.3045
	86 7000	0.722	0.722	0.722	60.8	0.0	0.0	0.01	0	27.58	29.02	0.3127	0.329	0.3276
	87 6500	0.667	0.667	0.667	62.71	0.0	0.0	0.01	158	29.7	31.25	0.3127	0.329	0.3527
	88 6000	0.611	0.611	0.611	64.7	0.0	0.0	0.01	0	32.0	33.67	0.3127	0.329	0.3801
	89 5500	0.556	0.556	0.556	66.77	0.0	0.0	0.01	85	34.52	36.33	0.3127	0.329	0.41
	90 5000	0.5	0.5	0.5	68.92	0.0	0.0	0.01	85	37.29	39.23	0.3127	0.329	0.4428
	91 4500	0.444	0.444	0.444	71.18	0.0	0.0	0.01	85	40.34	42.45	0.3127	0.329	0.4791
	92 4000	0.389	0.389	0.389	73.55	0.0	0.0	0.01	158	43.73	46.01	0.3127	0.329	0.5194
	93 3500	0.333	0.333	0.333	76.06	0.0	0.0	0.01	158	47.5	49.98	0.3127	0.329	0.5642
	94 3000	0.278	0.278	0.278	78.72	0.0	0.0	0.01	0	51.74	54.44	0.3127	0.329	0.6146
	95 2500	0.222	0.222	0.222	81.56	0.0	0.0	0.01	0	56.53	59.48	0.3127	0.329	0.6714
	96 2000	0.167	0.167	0.167	84.61	0.0	0.0	0.01	85	62.0	65.24	0.3127	0.329	0.7364
	97 1500	0.111	0.111	0.111	87.89	0.0	0.0	0.01	158	68.28	71.85	0.3127	0.329	0.811
	98 1000	0.056	0.056	0.056	91.48	0.0	0.0	0.01	88	75.59	79.54	0.3127	0.329	0.8978
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 20.16) = 0.815$

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS52a for CIE lightness $L^*=52$ of black for D65

System NLS52a
 NCS-System

J Yellow

D65 reflection: $LCH^*_a = 91.7 \ 68.3 \ 91$

$Y_N = 20.16$

$L^*_N = 52.02$ $LAB^*_a = 91.7 \ -0.7 \ 68.3$

G Green

$LCH^*_a = 73.0 \ 71.1 \ 164$

$LAB^*_a = 73.0 \ -68.3 \ 19.9$

C_e Cyan_e

$LCH^*_a = 71.4 \ 55.2 \ 195$

$LAB^*_a = 71.4 \ -53.2 \ -14.6$

B Blue

$LCH^*_a = 66.1 \ 47.4 \ 253 \ -1.0$

$LAB^*_a = 66.1 \ -13.6 \ -45.4$

R Red

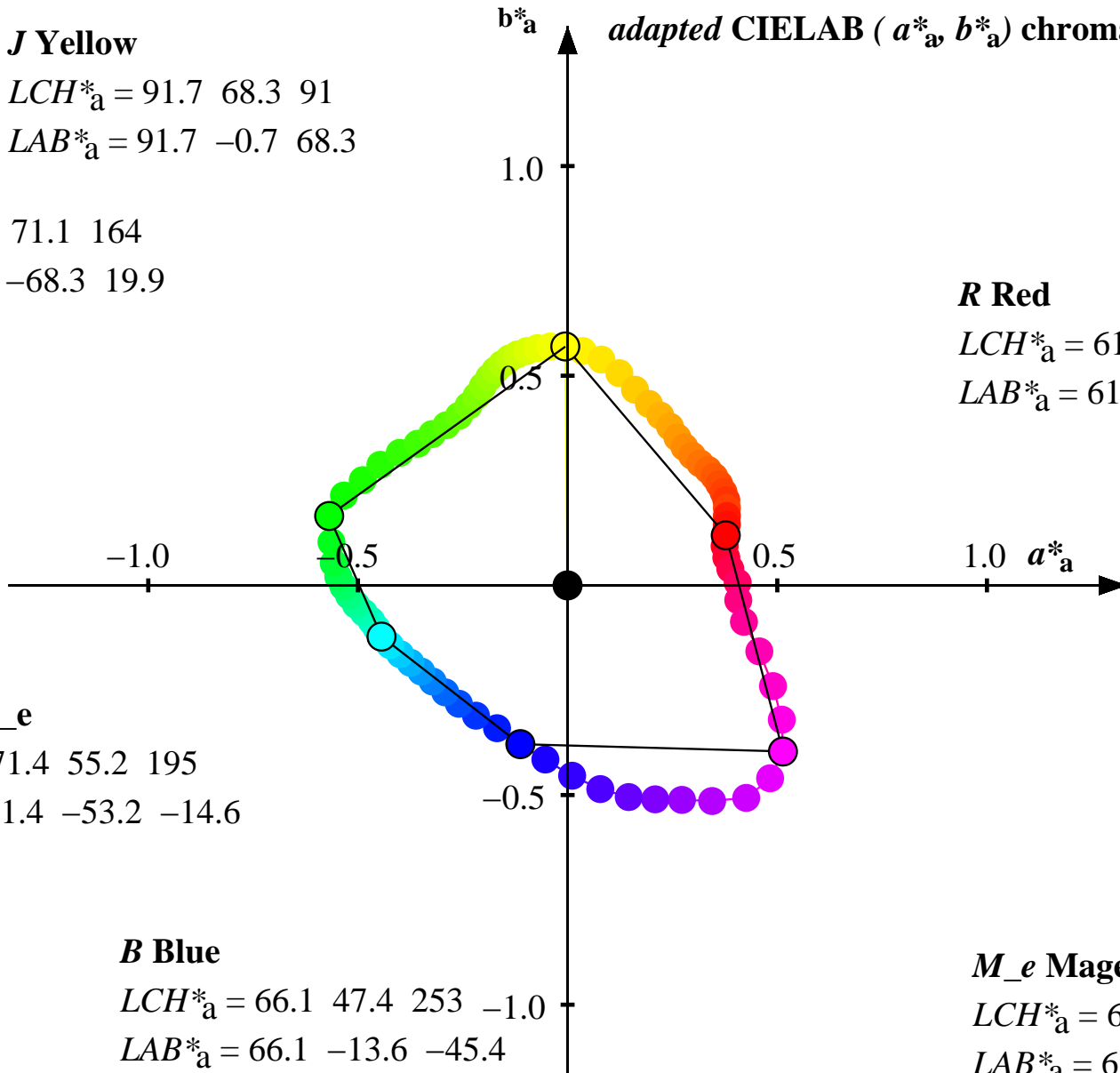
$LCH^*_a = 61.8 \ 47.5 \ 18$

$LAB^*_a = 61.8 \ 45.3 \ 14.4$

M_e Magenta_e

$LCH^*_a = 61.0 \ 77.8 \ 322$

$LAB^*_a = 61.0 \ 61.6 \ -47.5$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
 application for measurement of printer or monitor systems

TUB material: code=rh4ta

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS70a for CIE lightness $L^*=70$ of black for D65

System NLS70a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	00 Y00R	1.0	1.0	0.0	92.85	-0.44	39.85	39.85	91	78.3	82.62	43.97	0.3822	0.4033	0.9327
	01 Y05R	1.0	0.95	0.0	92.35	3.01	39.01	39.13	86	78.95	81.49	43.94	0.3863	0.3987	0.9198
	02 Y10R	1.0	0.9	0.0	91.25	6.65	37.24	37.83	80	78.41	79.04	43.83	0.3895	0.3927	0.8922
D65 reflection:	03 Y15R	1.0	0.85	0.0	89.61	10.04	34.51	35.94	74	76.56	75.46	43.74	0.3911	0.3855	0.8518
	04 Y20R	1.0	0.8	0.0	87.81	12.9	31.42	33.96	68	74.17	71.66	43.73	0.3913	0.3781	0.8089
	05 Y25R	1.0	0.75	0.0	86.27	15.33	28.77	32.6	62	72.17	68.53	43.73	0.3913	0.3716	0.7736
	06 Y30R	1.0	0.7	0.0	84.97	17.33	26.57	31.72	57	70.47	65.95	43.69	0.3912	0.3662	0.7444
	07 Y35R	1.0	0.65	0.0	83.76	18.82	24.53	30.92	53	68.74	63.6	43.64	0.3906	0.3614	0.7179
	08 Y40R	1.0	0.6	0.0	82.65	19.97	22.64	30.18	49	67.08	61.5	43.63	0.3895	0.3571	0.6942
	09 Y45R	1.0	0.55	0.0	81.69	21.02	20.93	29.66	45	65.69	59.72	43.67	0.3885	0.3532	0.6741
	10 Y50R	1.0	0.5	0.0	80.85	22.15	19.45	29.48	41	64.6	58.21	43.71	0.3879	0.3495	0.657
	11 Y55R	1.0	0.45	0.0	80.1	23.4	18.17	29.63	38	63.74	56.87	43.7	0.3879	0.3461	0.6419
	12 Y60R	1.0	0.4	0.0	79.41	24.55	17.02	29.88	35	62.94	55.65	43.66	0.3879	0.343	0.6282
	13 Y65R	1.0	0.35	0.0	78.76	25.42	15.9	29.98	32	62.09	54.51	43.65	0.3875	0.3401	0.6153
	14 Y70R	1.0	0.3	0.0	78.11	26.04	14.76	29.93	30	61.17	53.41	43.68	0.3865	0.3374	0.6028
	15 Y75R	1.0	0.25	0.0	77.46	26.49	13.49	29.73	27	60.18	52.31	43.81	0.385	0.3347	0.5905
	16 Y80R	1.0	0.2	0.0	76.82	26.65	12.22	29.32	25	59.09	51.23	43.96	0.383	0.3321	0.5783
	17 Y85R	1.0	0.25	0.0	76.18	26.46	11.03	28.67	23	57.86	50.17	44.02	0.3805	0.33	0.5663
	18 Y90R	1.0	0.1	0.0	75.54	26.1	9.82	27.89	21	56.61	49.15	44.13	0.3777	0.3279	0.5548
	19 Y95R	1.0	0.05	0.0	74.95	25.81	8.52	27.18	18	55.46	48.2	44.38	0.3746	0.3256	0.5441
	20 R00B	1.0	0.0	0.0	74.42	25.29	7.04	26.25	16	54.36	47.37	44.9	0.3707	0.323	0.5347
	21 R05B	1.0	0.0	0.1	74.02	24.82	5.48	25.42	12	53.5	46.73	45.68	0.3666	0.3203	0.5275
	22 R10B	1.0	0.0	0.2	73.76	24.94	3.97	25.25	9	53.11	46.33	46.66	0.3635	0.3171	0.523
	23 R15B	1.0	0.0	0.3	73.63	25.57	2.37	25.68	5	53.13	46.12	47.94	0.3609	0.3133	0.5207
	24 R20B	1.0	0.0	0.4	73.53	26.7	0.39	26.71	1	53.41	45.98	49.68	0.3583	0.3084	0.519
	25 R25B	1.0	0.0	0.5	73.44	26.79	-2.16	26.88	355	53.29	45.84	52.04	0.3525	0.3032	0.5174
	26 R30B	1.0	0.0	0.6	73.41	27.68	-5.47	28.22	349	53.6	45.8	55.38	0.3463	0.2959	0.517
	27 R35B	1.0	0.0	0.7	73.51	30.4	-10.38	32.13	341	54.83	45.95	60.83	0.3393	0.2843	0.5187
	28 R40B	1.0	0.0	0.8	73.67	32.87	-16.38	36.73	333	56.09	46.2	68.06	0.3293	0.2712	0.5215
	29 R45B	1.0	0.0	0.9	73.84	34.5	-22.59	41.24	327	57.03	46.45	76.1	0.3176	0.2587	0.5243
	30 R50B	1.0	0.0	1.0	74.02	34.85	-28.7	45.15	321	57.48	46.73	84.66	0.3044	0.2474	0.5275
	31 R55B	0.9	0.0	1.0	74.21	32.8	-34.12	47.34	314	57.0	47.04	92.87	0.2895	0.2389	0.531
	32 R60B	0.8	0.0	1.0	74.44	28.8	-38.19	47.84	307	55.77	47.39	99.57	0.2751	0.2337	0.5349
	33 R65B	0.7	0.0	1.0	74.65	23.07	-38.93	45.26	301	53.88	47.73	101.29	0.2655	0.2352	0.5387
	34 R70B	0.6	0.0	1.0	74.89	18.16	-38.88	42.92	295	52.38	48.11	101.85	0.2589	0.2378	0.543
	35 R75B	0.5	0.0	1.0	75.14	13.86	-38.94	41.34	290	51.15	48.5	102.61	0.2529	0.2398	0.5475
	36 R80B	0.4	0.0	1.0	75.37	9.6	-38.6	39.78	284	49.93	48.88	102.71	0.2478	0.2425	0.5517
	37 R85B	0.3	0.0	1.0	75.6	5.1	-37.05	37.41	278	48.64	49.24	100.92	0.2447	0.2477	0.5558
	38 R90B	0.2	0.0	1.0	75.91	0.66	-34.53	34.55	271	47.51	49.74	97.85	0.2435	0.2549	0.5614
	39 R95B	0.1	0.0	1.0	76.31	-3.47	-31.52	31.72	264	46.65	50.4	94.36	0.2437	0.2633	0.5689
	40 B00G	0.0	0.0	1.0	76.75	-7.35	-28.61	29.55	256	45.95	51.11	91.2	0.2441	0.2715	0.577
	41 B05G	0.0	0.1	1.0	77.16	-10.9	-25.64	27.87	247	45.32	51.8	87.96	0.2449	0.2799	0.5847
	42 B10G	0.0	0.2	1.0	77.55	-14.18	-23.29	27.28	239	44.77	52.45	85.6	0.2449	0.2869	0.592
	43 B15G	0.0	0.3	1.0	77.91	-16.82	-21.11	27.01	231	44.39	53.05	83.45	0.2454	0.2933	0.5989
	44 B20G	0.0	0.4	1.0	78.25	-19.0	-19.04	26.91	225	44.15	53.63	81.43	0.2463	0.2993	0.6054
	45 B25G	0.0	0.5	1.0	78.56	-20.97	-17.06	27.05	219	43.94	54.17	79.52	0.2474	0.305	0.6115
	46 B30G	0.0	0.6	1.0	78.85	-22.81	-15.28	27.46	214	43.73	54.66	77.82	0.2482	0.3102	0.617
	47 B35G	0.0	0.7	1.0	79.11	-24.49	-13.68	28.06	209	43.54	55.12	76.33	0.2488	0.315	0.6221
	48 B40G	0.0	0.8	1.0	79.35	-26.1	-12.14	28.8	205	43.35	55.54	74.9	0.2495	0.3196	0.6269
	49 B45G	0.0	0.9	1.0	79.58	-27.74	-10.54	29.69	201	43.13	55.94	73.37	0.2501	0.3244	0.6315

$n = 28.67 / (28.67 + 40.32) = 0.416$

TUB-test chart JE25; Hue circle and colorimetric data
Natural Colour System NCS, 80 hues, 8 display reflections

input: $olv^* setrgbcolor$
output: no change compared to input

TUB registration: 20090901-JE25/JE25LONA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta

See original or copy: <http://web.me.com/klaus.richter/JE25/JE25LONA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS70a for CIE lightness $L^*=70$ of black for D65

System NLS70a	Color	$r=olv_1$	$g=olv_2$	$b=olv_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}h_{ab,a}$	$X_a=XYZ_1a$	$Y_a=XYZ_2a$	$Z_a=XYZ_3a$	x_a	y_a	$Y_a/88.59$	
NCS-System	50 B50G	0.0	1.0	1.0	79.78	-29.07	-8.95	30.42	197	42.97	56.29	71.81	0.2512	0.329	0.6354
	51 B55G	0.0	1.0	0.9	79.92	-29.91	-7.47	30.84	194	42.89	56.53	70.29	0.2527	0.3331	0.6382
	52 B60G	0.0	1.0	0.8	80.01	-30.66	-6.1	31.28	191	42.78	56.71	68.83	0.2541	0.3369	0.6401
D65 reflection:	53 B65G	0.0	1.0	0.7	80.08	-31.76	-4.73	32.12	188	42.5	56.82	67.33	0.255	0.3409	0.6413
$Y_N = 40.32$	54 B70G	0.0	1.0	0.6	80.13	-32.98	-3.28	33.16	186	42.18	56.92	65.74	0.2559	0.3453	0.6425
$L^*_N = 69.7$	55 B75G	0.0	1.0	0.5	80.19	-33.95	-1.74	34.01	183	41.94	57.02	64.08	0.2572	0.3498	0.6437
	56 B80G	0.0	1.0	0.4	80.25	-34.83	-0.19	34.84	180	41.74	57.13	62.43	0.2588	0.3542	0.6449
	57 B85G	0.0	1.0	0.3	80.31	-35.54	1.4	35.58	178	41.57	57.22	60.74	0.2606	0.3587	0.6459
	58 B90G	0.0	1.0	0.2	80.38	-36.21	3.66	36.41	174	41.45	57.35	58.41	0.2637	0.3648	0.6474
	59 B95G	0.0	1.0	0.1	80.52	-36.7	7.08	37.39	169	41.5	57.61	55.06	0.2692	0.3737	0.6503
	60 G00Y	0.0	1.0	0.0	80.73	-37.18	11.14	38.92	163	41.63	57.98	51.3	0.2759	0.3842	0.6544
	61 G05Y	0.05	1.0	0.0	80.97	-35.25	14.15	37.99	158	42.62	58.41	48.78	0.2845	0.3899	0.6594
	62 G10Y	0.1	1.0	0.0	81.26	-32.72	16.43	36.62	153	43.89	58.93	47.1	0.2928	0.3931	0.6652
	63 G15Y	0.15	1.0	0.0	81.61	-30.32	18.61	35.58	148	45.25	59.59	45.65	0.3007	0.396	0.6726
	64 G20Y	0.2	1.0	0.0	82.05	-27.66	20.39	34.37	144	46.85	60.4	44.72	0.3083	0.3974	0.6818
	65 G25Y	0.25	1.0	0.0	82.61	-25.11	21.81	33.27	139	48.63	61.43	44.31	0.315	0.3979	0.6934
	66 G30Y	0.3	1.0	0.0	83.29	-23.03	23.38	32.82	135	50.48	62.71	43.95	0.3213	0.3991	0.7079
	67 G35Y	0.35	1.0	0.0	84.09	-20.98	24.89	32.56	130	52.58	64.25	43.84	0.3272	0.3999	0.7252
	68 G40Y	0.4	1.0	0.0	85.02	-19.21	26.57	32.8	126	54.82	66.05	43.76	0.333	0.4012	0.7456
	69 G45Y	0.45	1.0	0.0	86.06	-17.78	28.4	33.51	122	57.19	68.11	43.74	0.3383	0.4029	0.7688
	70 G50Y	0.5	1.0	0.0	87.16	-16.63	30.26	34.54	119	59.61	70.33	43.76	0.3432	0.4049	0.7938
	71 G55Y	0.55	1.0	0.0	88.25	-15.67	32.08	35.71	116	62.0	72.58	43.81	0.3476	0.4068	0.8192
	72 G60Y	0.6	1.0	0.0	89.24	-14.76	33.74	36.83	114	64.25	74.67	43.86	0.3515	0.4085	0.8428
	73 G65Y	0.65	1.0	0.0	90.07	-13.71	35.17	37.75	111	66.32	76.46	43.87	0.3553	0.4096	0.8631
	74 G70Y	0.7	1.0	0.0	90.77	-12.55	36.39	38.49	109	68.21	77.99	43.86	0.3589	0.4103	0.8803
	75 G75Y	0.75	1.0	0.0	91.36	-11.22	37.43	39.08	107	70.0	79.29	43.84	0.3625	0.4105	0.895
	76 G80Y	0.8	1.0	0.0	91.84	-9.7	38.26	39.47	104	71.69	80.36	43.83	0.366	0.4102	0.9071
	77 G85Y	0.85	1.0	0.0	92.21	-7.93	38.9	39.71	102	73.27	81.17	43.82	0.3696	0.4094	0.9162
	78 G90Y	0.9	1.0	0.0	92.52	-5.88	39.45	39.88	98	74.92	81.88	43.82	0.3734	0.4081	0.9243
	79 G95Y	0.95	1.0	0.0	92.82	-3.42	39.87	40.02	95	76.75	82.55	43.89	0.3777	0.4063	0.9318
	80 Y00R	0.0	1.0	0.0	92.85	-0.44	39.85	39.85	91	78.3	82.62	43.97	0.3822	0.4033	0.9327
	81 9500	1.0	1.0	1.0	69.7	0.0	0.0	0.01	0	38.32	40.32	43.9	0.3127	0.329	0.4551
	82 9000	0.944	0.944	0.944	70.45	0.0	0.0	0.01	0	39.34	41.39	45.07	0.3127	0.329	0.4673
	83 8500	0.889	0.889	0.889	71.25	0.0	0.0	0.01	0	40.44	42.55	46.33	0.3127	0.329	0.4803
	84 8000	0.833	0.833	0.833	72.09	0.0	0.0	0.01	0	41.62	43.79	47.68	0.3127	0.329	0.4943
	85 7500	0.778	0.778	0.778	72.97	0.0	0.0	0.01	0	42.89	45.13	49.13	0.3127	0.329	0.5094
	86 7000	0.722	0.722	0.722	73.92	0.0	0.0	0.01	0	44.26	46.57	50.71	0.3127	0.329	0.5257
	87 6500	0.667	0.667	0.667	74.91	0.0	0.0	0.01	0	45.75	48.14	52.41	0.3127	0.329	0.5434
	88 6000	0.611	0.611	0.611	75.98	0.0	0.0	0.01	85	47.38	49.85	54.28	0.3127	0.329	0.5627
	89 5500	0.556	0.556	0.556	77.11	0.0	0.0	0.01	0	49.16	51.72	56.32	0.3127	0.329	0.5838
	90 5000	0.5	0.5	0.5	78.33	0.0	0.0	0.01	0	51.11	53.77	58.55	0.3127	0.329	0.607
	91 4500	0.444	0.444	0.444	79.64	0.0	0.0	0.01	85	53.26	56.04	61.02	0.3127	0.329	0.6326
	92 4000	0.389	0.389	0.389	81.05	0.0	0.0	0.01	158	55.65	58.56	63.76	0.3127	0.329	0.661
	93 3500	0.333	0.333	0.333	82.57	0.0	0.0	0.01	85	58.31	61.36	66.81	0.3127	0.329	0.6926
	94 3000	0.278	0.278	0.278	84.23	0.0	0.0	0.01	0	61.3	64.5	70.23	0.3127	0.329	0.7281
	95 2500	0.222	0.222	0.222	86.04	0.0	0.0	0.01	85	64.68	68.06	74.1	0.3127	0.329	0.7682
	96 2000	0.167	0.167	0.167	88.02	0.0	0.0	0.01	158	68.54	72.12	78.52	0.3127	0.329	0.8141
	97 1500	0.111	0.111	0.111	90.22	0.0	0.0	0.01	158	72.97	76.78	83.6	0.3127	0.329	0.8667
	98 1000	0.056	0.056	0.056	92.67	0.0	0.0	0.01	0	78.13	82.21	89.51	0.3127	0.329	0.9279
	99 0500	0.0	0.0	0.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

$n = 88.59 / (88.59 + 40.32) = 0.687$

Colorimetric "Adapted data (a)": Colorimetric data of Natural Luminous System NLS70a for CIE lightness $L^*=70$ of black for D65

System NLS70a

NCS-System

J Yellow

D65 reflection:

$Y_N = 40.32$

$L^*_N = 69.7$

$LCH^*_a = 92.8 \ 39.8 \ 91$

$LAB^*_a = 92.8 \ -0.5 \ 39.8$

G Green

$LCH^*_a = 80.7 \ 38.8 \ 163$

$LAB^*_a = 80.7 \ -37.2 \ 11.1$

R Red

$LCH^*_a = 74.4 \ 26.2 \ 16$

$LAB^*_a = 74.4 \ 25.3 \ 7.0$

C_e Cyan_e

$LCH^*_a = 79.8 \ 30.4 \ 197$

$LAB^*_a = 79.8 \ -29.1 \ -9.0$

B Blue

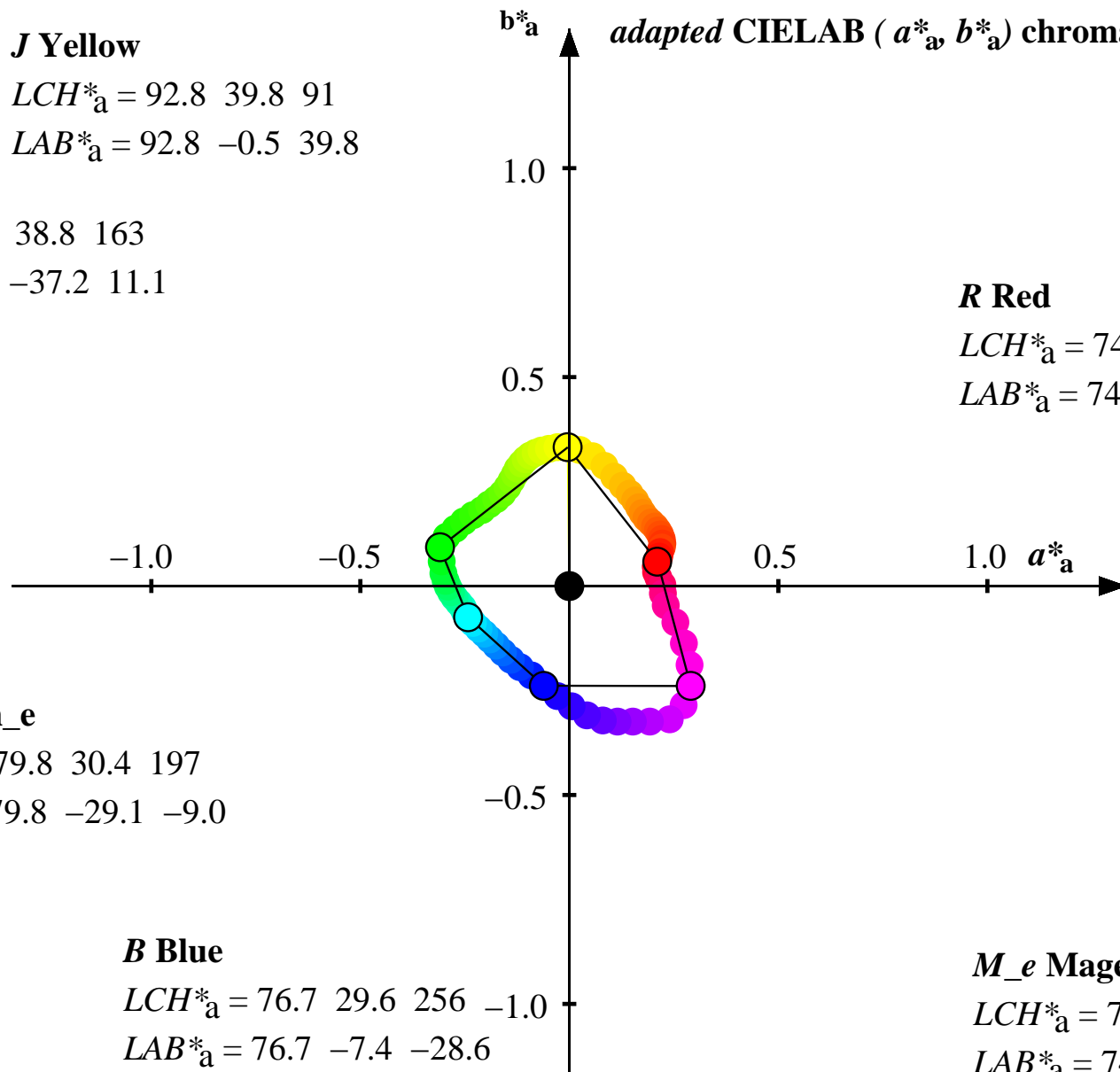
$LCH^*_a = 76.7 \ 29.6 \ 256 \ -1.0$

$LAB^*_a = 76.7 \ -7.4 \ -28.6$

M_e Magenta_e

$LCH^*_a = 74.0 \ 45.2 \ 321$

$LAB^*_a = 74.0 \ 34.9 \ -28.7$



See original or copy: <http://web.me.com/klaus.richter/JE25/JE25L0NA.TXT> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20090901-JE25/JE25L0NA.TXT /.PS
application for measurement of printer or monitor systems

TUB material: code=rh4ta