

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Y=J_d Yellow

$LCH^*_d = 91.3 \ 85.8 \ 99.3$
 $LAB^*_d = 91.3 \ -13.9 \ 84.7$
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

L=G_d Leaf green

$LCH^*_d = 56.7 \ 73.8 \ 151.6$
 $LAB^*_d = 56.7 \ -64.9 \ 35.0$
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

C=C_d Cyan blue

$LCH^*_d = 51.7 \ 51.7 \ 229.0$
 $LAB^*_d = 51.7 \ -33.9 \ -39.0$
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

O=R_d Orange red

$LCH^*_d = 46.0 \ 73.0 \ 31.8$
 $LAB^*_d = 46.0 \ 61.9 \ 38.5$
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

M=M_d Magenta red

$LCH^*_d = 45.3 \ 72.2 \ 349.6$
 $LAB^*_d = 45.3 \ 71.0 \ -12.9$
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

V=B_d Violet blue (very similar to elementary Blue)

$LCH^*_d = 31.3 \ 49.2 \ 299.3$
 $LAB^*_d = 31.3 \ 24.1 \ -42.9$
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

J_e Yellow

$LCH^*_e = 84.5 \ 76.2 \ 92.0$
 $LAB^*_e = 84.5 \ -2.6 \ 76.2$
 $rgb^*_e = 1.0 \ 0.81 \ 0.0$

G_e Green

$LCH^*_e = 56.4 \ 64.1 \ 162.0$
 $LAB^*_e = 56.4 \ -60.9 \ 19.8$
 $rgb^*_e = 0.0 \ 1.0 \ 0.183$

C_e Blue green

$LCH^*_e = 54.3 \ 48.6 \ 217.0$
 $LAB^*_e = 54.3 \ -38.8 \ -29.2$
 $rgb^*_e = 0.0 \ 1.0 \ 0.903$

B_e Blue

$LCH^*_e = 35.7 \ 48.5 \ 272.0$
 $LAB^*_e = 35.7 \ 1.6 \ -48.5$
 $rgb^*_e = 0.0 \ 0.284 \ 1.0$

R_e Red

$LCH^*_e = 45.3 \ 68.4 \ 25.0$
 $LAB^*_e = 45.3 \ 62.0 \ 28.9$
 $rgb^*_e = 1.0 \ 0.0 \ 0.204$

M_e Blue red

$LCH^*_e = 34.1 \ 57.6 \ 329.0$
 $LAB^*_e = 34.1 \ 49.3 \ -29.6$
 $rgb^*_e = 0.477 \ 0.0 \ 1.0$

J_s Yellow

$LCH^*_s = 82.7 \ 77.8 \ 90.0$
 $LAB^*_s = 82.7 \ 0.0 \ 77.8$
 $rgb^*_s = 1.0 \ 0.762 \ 0.0$

G_s Green

$LCH^*_s = 57.6 \ 73.0 \ 150.0$
 $LAB^*_s = 57.6 \ -63.2 \ 36.5$
 $rgb^*_s = 0.035 \ 1.0 \ 0.0$

C_s Blue green

$LCH^*_s = 55.7 \ 47.2 \ 210.0$
 $LAB^*_s = 55.7 \ -40.9 \ -23.6$
 $rgb^*_s = 0.0 \ 1.0 \ 0.832$

B_s Blue

$LCH^*_s = 36.6 \ 48.5 \ 270.0$
 $LAB^*_s = 36.6 \ 0.0 \ -48.5$
 $rgb^*_s = 0.0 \ 0.308 \ 1.0$

R_s Red

$LCH^*_s = 45.9 \ 71.3 \ 30.0$
 $LAB^*_s = 45.9 \ 61.8 \ 35.6$
 $rgb^*_s = 1.0 \ 0.0 \ 0.072$

M_s Blue red

$LCH^*_s = 34.6 \ 58.0 \ 330.0$
 $LAB^*_s = 34.6 \ 50.2 \ -29.0$
 $rgb^*_s = 0.503 \ 0.0 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_d -input values the CIELAB data LCH^*_d and LAB^*_d have been measured.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_d the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s: $h_{ab,si} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e: $h_{ab,ei} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 3.

6. The values rgb^*_d produce the output of the device-independent elementary hues

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$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd50M}	$LAB^*_{dd50M}(x=LabCh)$	rgb^*_{ds50M}	$LAB^*_{ds50M}(x=LabCh)$	rgb^*_{ss50M}	$LAB^*_{de50M}(x=LabCh)$	rgb^*_{e50M}																								
31.9	30.0	25.5	1.0	0.0	0.0	46.0	62.0	38.6	73.0	31.9	1.0	0.0	0.072	45.9	61.8	35.7	71.4	30	1.0	0.0	0.0	1.0	0.0	0.205	45.3	62.1	28.9	68.5	25	1.0	0.0	0.0	
43.3	37.5	33.8	1.0	0.125	0.0	52.1	56.9	53.5	78.1	43.3	1.0	0.067	0.0	49.3	59.7	46.6	75.8	38	1.0	0.125	0.0	1.0	0.0023	0.0	47.2	61.3	41.4	74.0	34	1.0	0.125	0.0	
55.6	45.0	42.2	1.0	0.25	0.0	60.1	41.1	60.0	72.7	55.6	1.0	0.143	0.0	53.3	54.7	54.7	77.3	45	1.0	0.25	0.0	1.0	0.111	0.0	51.5	57.6	51.9	77.5	42	1.0	0.25	0.0	
65.8	52.5	50.5	1.0	0.375	0.0	66.1	29.7	66.0	72.3	65.8	1.0	0.223	0.0	58.4	44.5	59.0	73.9	53	1.0	0.375	0.0	1.0	0.203	0.0	57.1	47.0	58.1	74.7	51	1.0	0.375	0.0	
74.8	60.0	58.9	1.0	0.5	0.0	71.6	19.2	71.0	73.6	74.8	1.0	0.304	0.0	62.7	36.3	62.8	72.6	60	1.0	0.5	0.0	1.0	0.292	0.0	62.1	37.4	62.2	72.6	59	1.0	0.5	0.0	
80.8	67.5	67.2	1.0	0.625	0.0	75.6	12.2	75.2	76.2	80.8	1.0	0.406	0.0	67.5	27.2	67.3	72.6	68	1.0	0.625	0.0	1.0	0.392	0.0	66.9	28.3	66.7	72.5	67	1.0	0.625	0.0	
89.5	75.0	75.6	1.0	0.75	0.0	82.3	0.7	78.2	78.2	89.5	1.0	0.503	0.0	71.7	19.1	71.1	73.6	75	1.0	0.75	0.0	1.0	0.524	0.0	72.4	17.9	71.9	74.1	76	1.0	0.75	0.0	
94.7	82.5	84.0	1.0	0.875	0.0	87.0	-6.0	74.0	74.2	94.7	1.0	0.657	0.0	77.3	9.3	76.1	76.7	83	1.0	0.875	0.0	1.0	0.672	0.0	78.1	8.0	76.5	77.0	84	1.0	0.875	0.0	
99.3	90.0	92.3	1.0	1.0	0.0	91.4	-13.8	84.8	85.9	99.3	1.0	0.763	0.0	82.8	0.0	77.8	77.8	90	1.0	1.0	0.0	1.0	0.811	0.0	84.6	-2.6	76.3	76.3	92	1.0	1.0	0.0	
100.7	97.5	101.1	0.875	1.0	0.0	93.5	-17.6	93.6	95.2	100.7	1.0	0.964	0.0	90.1	-11.4	81.7	82.5	98	0.875	1.0	0.0	0.866	1.0	0.0	93.1	-18.0	93.1	94.9	101	0.875	1.0	0.0	
105.0	105.0	109.8	0.75	1.0	0.0	88.5	-23.3	87.3	90.4	105.0	0.75	1.0	0.0	88.5	-23.3	87.3	90.4	105	0.75	1.0	0.0	0.678	1.0	0.0	83.7	-28.5	78.6	83.6	110	0.75	1.0	0.0	
113.7	112.5	118.5	0.625	1.0	0.0	80.2	-31.5	71.9	78.6	113.7	0.625	1.0	0.0	80.9	-31.0	73.2	79.5	113	0.625	1.0	0.0	0.542	1.0	0.0	75.9	-36.5	66.0	75.4	119	0.625	1.0	0.0	
121.7	120.0	127.3	0.5	1.0	0.0	73.7	-38.7	62.8	73.8	121.7	0.527	1.0	0.0	75.1	-37.3	64.8	74.8	120	0.5	1.0	0.0	0.406	1.0	0.0	70.1	-43.2	57.5	72.0	127	0.5	1.0	0.0	
128.8	127.5	136.0	0.375	1.0	0.0	68.9	-44.6	55.7	71.4	128.8	0.389	1.0	0.0	69.4	-44.0	56.5	71.6	128	0.375	1.0	0.0	0.279	1.0	0.0	64.9	-51.3	49.6	71.5	136	0.375	1.0	0.0	
138.2	135.0	144.7	0.25	1.0	0.0	63.7	-53.2	47.7	71.5	138.2	0.292	1.0	0.0	65.5	-50.4	50.5	71.4	135	0.25	1.0	0.0	0.139	1.0	0.0	60.5	-58.0	40.7	70.9	145	0.25	1.0	0.0	
145.8	142.5	153.5	0.125	1.0	0.0	60.1	-58.6	39.8	70.9	145.8	0.171	1.0	0.0	61.4	-56.7	42.8	71.1	143	0.125	1.0	0.0	0.0	1.0	0.026	56.7	-64.6	33.0	72.6	153	0.125	1.0	0.0	
151.6	150.0	162.2	0.0	1.0	0.0	56.7	-64.9	35.1	73.8	151.6	0.035	1.0	0.0	57.7	-63.1	36.5	73.0	150	0.0	1.0	0.0	0.0	1.0	0.183	56.4	-60.9	19.8	64.1	162	0.0	1.0	0.0	
158.2	157.5	169.1	0.0	1.0	0.125	56.3	-62.8	25.2	67.8	158.2	0.0	1.0	0.121	56.3	-62.9	25.5	68.0	158	0.0	1.0	0.125	0.0	1.0	0.289	56.7	-57.2	11.1	58.4	169	0.0	1.0	0.125	
166.3	165.0	175.9	0.0	1.0	0.25	56.6	-58.2	14.2	60.0	166.3	0.0	1.0	0.229	56.5	-59.1	15.9	61.2	165	0.0	1.0	0.25	0.0	1.0	0.391	56.9	-54.3	3.8	54.5	176	0.0	1.0	0.25	
174.8	172.5	182.8	0.0	1.0	0.375	56.9	-54.7	5.0	55.1	174.8	0.0	1.0	0.348	56.8	-55.6	6.8	56.1	173	0.0	1.0	0.375	0.0	1.0	0.486	57.2	-50.9	-2.6	51.1	183	0.0	1.0	0.375	
184.0	180.0	189.6	0.0	1.0	0.5	57.2	-50.4	-3.4	50.6	184.0	0.0	1.0	0.445	57.1	-52.4	0.0	52.5	180	0.0	1.0	0.5	0.0	1.0	0.573	57.3	-47.9	-8.4	48.7	190	0.0	1.0	0.5	
194.3	187.5	196.4	0.0	1.0	0.625	57.4	-45.9	-11.6	47.4	194.3	0.0	1.0	0.549	57.3	-48.8	-6.8	49.4	188	0.0	1.0	0.625	0.0	1.0	0.649	57.3	-45.3	-12.9	47.2	196	0.0	1.0	0.625	
203.4	195.0	203.3	0.0	1.0	0.75	56.9	-42.4	-18.3	46.3	203.4	0.0	1.0	0.635	57.4	-45.6	-12.2	47.3	195	0.0	1.0	0.75	0.0	1.0	0.745	56.9	-42.6	-18.0	46.4	203	0.0	1.0	0.75	
213.4	202.5	210.1	0.0	1.0	0.875	55.2	-39.8	-26.2	47.8	213.4	0.0	1.0	0.745	56.9	-42.6	-18.0	46.4	203	0.0	1.0	0.875	0.0	1.0	0.832	55.8	-40.8	-23.5	47.3	210	0.0	1.0	0.875	
229.0	210.0	217.0	0.0	1.0	1.0	51.7	-33.9	-39.0	51.8	229.0	0.0	1.0	0.832	55.8	-40.8	-23.5	47.3	210	0.0	1.0	1.0	0.0	1.0	0.904	54.4	-38.8	-29.2	48.7	217	0.0	1.0	1.0	
232.3	217.5	223.8	0.0	0.875	1.0	51.4	-32.0	-41.3	52.4	232.3	0.0	1.0	0.912	54.2	-38.5	-30.0	48.9	218	0.0	0.875	1.0	0.0	1.0	0.96	52.8	-36.2	-35.0	50.5	224	0.0	0.875	1.0	
238.2	225.0	230.7	0.0	0.75	1.0	51.4	-28.0	-45.2	53.3	238.2	0.0	1.0	0.968	52.6	-35.8	-35.8	50.7	225	0.0	0.75	1.0	0.0	1.0	0.924	51.0	-32.7	-40.4	52.1	231	0.0	0.75	1.0	
246.8	232.5	237.5	0.0	0.625	1.0	48.6	-20.5	-48.1	52.4	246.8	0.0	0.86	1.0	51.4	-31.5	-41.8	52.5	233	0.0	0.625	1.0	0.0	1.0	0.754	51.0	-28.1	-45.1	53.3	238	0.0	0.625	1.0	
254.4	240.0	244.4	0.0	0.5	1.0	44.4	-13.4	-48.3	50.3	254.4	0.0	0.724	1.0	50.8	-26.5	-45.9	53.1	240	0.0	0.5	1.0	0.0	1.0	0.666	51.0	-23.0	-47.3	52.7	244	0.0	0.5	1.0	
264.5	247.5	251.2	0.0	0.375	1.0	39.1	-4.6	-48.2	48.5	264.5	0.0	0.606	1.0	48.0	-19.4	-48.2	52.1	248	0.0	0.375	1.0	0.0	1.0	0.556	51.0	-16.6	-48.4	51.3	251	0.0	0.375	1.0	
274.9	255.0	258.0	0.0	0.25	1.0	34.4	4.2	-48.3	48.6	274.9	0.0	0.492	1.0	44.1	-12.9	-48.4	50.2	255	0.0	0.25	1.0	0.0	1.0	0.455	51.0	-10.2	-48.5	49.6	258	0.0	0.25	1.0	
287.2	262.5	264.9	0.0	0.125	1.0	34.1	14.1	-45.3	47.5	287.2	0.0	0.393	1.0	39.9	-5.8	-48.3	48.8	263	0.0	0.125	1.0	0.0	1.0	0.369	51.0	-4.1	-48.2	48.5	265	0.0	0.125	1.0	
299.3	270.0	271.7	0.0	0.0	1.0	31.3	24.1	-42.9	49.3	299.3	0.0	0.309	1.0	36.6	0.0	-48.5	48.6	270	0.0	0.0	1.0	0.0	1.0	0.285	51.0	35.7	1.7	-48.5	48.6	272	0.0	0.0	1.0
308.1	277.5	278.8	0.125	0.0	1.0	31.0	31.5	-40.1	51.1	308.1	0.0	0.219	1.0	34.3	6.7	-47.8	48.3	278	0.125	0.0	1.0	0.0	1.0	0.209	51.0	34.3	7.5	-47.6	48.3	279	0.125	0.0	1.0
317.3	285.0	286.0	0.25	0.0	1.0	30.7	39.5	-36.3	53.7	317.3	0.0	0.148	1.0	34.1	12.4	-46.0	47.7	285	0.25	0.0	1.0	0.0	1.0	0.138	51.0	34.1	13.1	-45.7	47.6	286	0.25	0.0	1.0
324.9	292.5	293.1	0.375	0.0	1.0	32.3	45.8	-32.1	56.0	324.9	0.0	0.065	1.0	32.8	18.9	-44.4	48.4	293	0.375	0.0	1.0	0.0	1.0	0.065	51.0	32.8	18.9	-44.4	48.4	293	0.375	0.0	1.0
329.9	300.0	300.2	0.5	0.0	1.0	34.5	50.1	-29.0	58.0	329.9	0.01	0.0	1.0	31.3	24.7	-42.7	49.4	300	0.5	0.0	1.0	0.01	0.0	1.0	31.3	24.7	-42.7	49.4	300	0.5	0.0	1.0	
334.7	307.5	307.3	0.625	0.0	1.0	36.8	54.8	-25.8	60.6	334.7	0.124	0.0	1.0	31.0	31.5	-40.2	51.1	308	0.625	0.0	1.0	0.11	0.0	1.0	31.0	30.6	-40.5	50.9	307	0.625	0.0	1.0	
339.9	315.0	314.4	0.75	0.0	1.0	39.0	59.8	-21.8	63.7	339.9	0.219	0.0	1.0	30.8	37.5	-37.4	53.1	315	0.75	0.0	1.0	0.205	0.0	1.0	30.8	36.7	-37.9	52.8	314	0.75	0.0	1.0	
344.4	322.5	321.5	0.875	0.0	1.0	41.8	65.1	-18.1	67.6	344.4	0.344	0.0	1.0	31.9	44.3	-33.2	55.4	323	0.8														

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> / .PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmerrick>

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

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See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix}(x=LabCh)$	rgb^*_{s50M}	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix}(x=LabCh)$	rgb^*_{e50M}	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
76	75	76	1.0	0.524 0.0	72.4	17.9	71.9	74.1	76	1.0	0.75	0.0	
77	76	77	1.0	0.546 0.0	73.1	16.8	72.6	74.5	77	1.0	0.767	0.0	
78	77	78	1.0	0.567 0.0	73.7	15.6	73.3	75.0	78	1.0	0.783	0.0	
79	78	79	1.0	0.588 0.0	74.4	14.4	74.0	75.4	79	1.0	0.8	0.0	
80	79	80	1.0	0.609 0.0	75.0	13.2	74.7	75.8	80	1.0	0.817	0.0	
81	80	81	1.0	0.628 0.0	75.7	11.9	75.3	76.2	81	1.0	0.833	0.0	
82	81	82	1.0	0.643 0.0	76.5	10.6	75.7	76.5	82	1.0	0.85	0.0	
83	82	83	1.0	0.657 0.0	77.3	9.3	76.1	76.7	83	1.0	0.867	0.0	
84	83	85	1.0	0.672 0.0	78.1	8.0	76.5	77.0	84	1.0	0.883	0.0	
85	84	86	1.0	0.686 0.0	78.8	6.7	76.9	77.2	85	1.0	0.9	0.0	
86	85	87	1.0	0.7 0.0	79.6	5.4	77.2	77.4	86	1.0	0.917	0.0	
87	86	88	1.0	0.715 0.0	80.4	4.1	77.6	77.7	87	1.0	0.933	0.0	
88	87	89	1.0	0.729 0.0	81.2	2.7	77.9	77.9	88	1.0	0.95	0.0	
89	88	90	1.0	0.743 0.0	81.9	1.4	78.1	78.1	89	1.0	0.967	0.0	
90	89	91	1.0	0.763 0.0	82.8	0.0	77.8	77.8	90	1.0	0.983	0.0	
91	90	92	1.0	0.787 0.0	83.7	-1.2	77.1	77.1	91	1.0	0.0	0.0	J_e
92	91	93	1.0	0.811 0.0	84.6	-2.6	76.3	76.3	92	1.0	0.0	0.0	
93	92	95	1.0	0.834 0.0	85.5	-3.9	75.4	75.5	93	1.0	0.983	1.0	0.0
94	93	96	1.0	0.858 0.0	86.3	-5.1	74.6	74.8	94	1.0	0.967	1.0	0.0
95	94	97	1.0	0.883 0.0	87.3	-6.4	74.7	75.0	95	1.0	0.95	1.0	0.0
96	95	98	1.0	0.91 0.0	88.2	-8.0	77.1	77.5	96	1.0	0.933	1.0	0.0
97	96	99	1.0	0.937 0.0	89.1	-9.7	79.4	80.0	97	1.0	0.917	1.0	0.0
98	97	100	1.0	0.964 0.0	90.1	-11.4	81.7	82.5	98	1.0	0.9	1.0	0.0
99	98	102	1.0	0.991 0.0	91.0	-13.2	84.0	85.0	99	1.0	0.883	1.0	0.0
100	99	103	0.939	1.0 0.0	92.4	-15.6	89.1	90.5	100	1.0	0.867	1.0	0.0
101	100	104	0.866	1.0 0.0	93.1	-18.0	93.1	94.9	101	1.0	0.85	1.0	0.0
102	101	105	0.837	1.0 0.0	92.0	-19.4	91.7	93.8	102	1.0	0.833	1.0	0.0
103	102	106	0.808	1.0 0.0	90.8	-20.7	90.3	92.6	103	1.0	0.817	1.0	0.0
104	103	107	0.779	1.0 0.0	89.6	-22.0	88.8	91.5	104	1.0	0.8	1.0	0.0
105	104	109	0.75	1.0 0.0	88.5	-23.3	87.3	90.4	105	1.0	0.783	1.0	0.0
106	105	110	0.735	1.0 0.0	87.5	-24.4	85.6	89.0	106	1.0	0.767	1.0	0.0
107	106	111	0.721	1.0 0.0	86.6	-25.5	83.8	87.7	107	1.0	0.75	1.0	0.0
108	107	112	0.707	1.0 0.0	85.6	-26.6	82.1	86.3	108	1.0	0.733	1.0	0.0
109	108	113	0.693	1.0 0.0	84.7	-27.6	80.3	85.0	109	1.0	0.717	1.0	0.0
110	109	114	0.678	1.0 0.0	83.7	-28.5	78.6	83.6	110	1.0	0.7	1.0	0.0
111	110	116	0.664	1.0 0.0	82.8	-29.4	76.8	82.3	111	1.0	0.683	1.0	0.0
112	111	117	0.65	1.0 0.0	81.8	-30.2	75.0	80.9	112	1.0	0.667	1.0	0.0
113	112	118	0.635	1.0 0.0	80.9	-31.0	73.2	79.5	113	1.0	0.65	1.0	0.0
114	113	119	0.621	1.0 0.0	80.0	-31.8	71.6	78.4	114	1.0	0.633	1.0	0.0
115	114	120	0.605	1.0 0.0	79.2	-32.8	70.5	77.8	115	1.0	0.617	1.0	0.0
116	115	121	0.589	1.0 0.0	78.3	-33.7	69.4	77.2	116	1.0	0.6	1.0	0.0
117	116	123	0.574	1.0 0.0	77.5	-34.7	68.3	76.6	117	1.0	0.583	1.0	0.0
118	117	124	0.558	1.0 0.0	76.7	-35.6	67.1	76.0	118	1.0	0.567	1.0	0.0
119	118	125	0.542	1.0 0.0	75.9	-36.5	66.0	75.4	119	1.0	0.55	1.0	0.0
120	119	126	0.527	1.0 0.0	75.1	-37.3	64.8	74.8	120	1.0	0.533	1.0	0.0
121	120	127	0.511	1.0 0.0	74.3	-38.1	63.6	74.2	121	1.0	0.517	1.0	0.0
										0.406	1.0	0.0	

OE320-7N, Page of series 4/20, RX0, D65, XYZnw=1.7, 1.8, 1.8, 87.6, 92.7, 98.0, LAB*_{nw}=14.4, 0.3, 1.4, 97.1, -0.9, 1.9, not adapted

Output: laser printer HRS16_96; separation cmyn6*, D65 and D50, page 4/20

TUB-test chart OE32; 48 and 360 step hue circles, Page 4/20
Data of laser printer HRS16_96, separation cmyn6*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn6^*_d = f_6(rgb^*_d)$

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_d dd361Mi	LAB^*_d dd361Mix (x=LabCh)	rgb^*_s ds361Mi	LAB^*_s ds361Mix (x=LabCh)	rgb^*_e s50M	rgb^*_d de361Mi	LAB^*_d de361Mix (x=LabCh)	rgb^*_e e50M	rgb^*_d dd361Mi	rgb^*_s ds361Mi	rgb^*_e e50M
121	120	127	0.511 1.0 0.0	74.3 -38.1 63.6 74.2 121	0.527 1.0 0.0	75.1 -37.3 64.8 74.8 120 0.5 1.0 0.0	0.406 1.0 0.0	70.1 -43.2 57.5 72.0 127 0.5 1.0 0.0	0.406 1.0 0.0	70.1 -43.2 57.5 72.0 127 0.5 1.0 0.0			
122	121	128	0.495 1.0 0.0	73.5 -39.0 62.5 73.7 122	0.511 1.0 0.0	74.3 -38.1 63.6 74.2 121 0.483 1.0 0.0	0.389 1.0 0.0	69.4 -44.0 56.5 71.6 128 0.483 1.0 0.0	0.389 1.0 0.0	69.4 -44.0 56.5 71.6 128 0.483 1.0 0.0			
123	122	130	0.477 1.0 0.0	72.8 -39.9 61.5 73.4 123	0.495 1.0 0.0	73.5 -39.0 62.5 73.7 122 0.467 1.0 0.0	0.359 1.0 0.0	68.2 -45.8 54.7 71.4 130 0.467 1.0 0.0	0.359 1.0 0.0	68.2 -45.8 54.7 71.4 130 0.467 1.0 0.0			
124	123	131	0.459 1.0 0.0	72.1 -40.7 60.5 73.0 124	0.477 1.0 0.0	72.8 -39.9 61.5 73.4 123 0.45 1.0 0.0	0.345 1.0 0.0	67.7 -46.7 53.9 71.4 131 0.45 1.0 0.0	0.345 1.0 0.0	67.7 -46.7 53.9 71.4 131 0.45 1.0 0.0			
125	124	132	0.442 1.0 0.0	71.5 -41.6 59.5 72.7 125	0.459 1.0 0.0	72.1 -40.7 60.5 73.0 124 0.433 1.0 0.0	0.332 1.0 0.0	67.1 -47.7 53.1 71.4 132 0.433 1.0 0.0	0.332 1.0 0.0	67.1 -47.7 53.1 71.4 132 0.433 1.0 0.0			
126	125	133	0.424 1.0 0.0	70.8 -42.4 58.5 72.3 126	0.442 1.0 0.0	71.5 -41.6 59.5 72.7 125 0.417 1.0 0.0	0.319 1.0 0.0	66.6 -48.6 52.2 71.4 133 0.417 1.0 0.0	0.319 1.0 0.0	66.6 -48.6 52.2 71.4 133 0.417 1.0 0.0			
127	126	134	0.406 1.0 0.0	70.1 -43.2 57.5 72.0 127	0.424 1.0 0.0	70.8 -42.4 58.5 72.3 126 0.4 1.0 0.0	0.305 1.0 0.0	66.0 -49.5 51.4 71.4 134 0.4 1.0 0.0	0.305 1.0 0.0	66.0 -49.5 51.4 71.4 134 0.4 1.0 0.0			
128	127	135	0.389 1.0 0.0	69.4 -44.0 56.5 71.6 128	0.406 1.0 0.0	70.1 -43.2 57.5 72.0 127 0.383 1.0 0.0	0.292 1.0 0.0	65.5 -50.4 50.5 71.4 135 0.383 1.0 0.0	0.292 1.0 0.0	65.5 -50.4 50.5 71.4 135 0.383 1.0 0.0			
129	128	137	0.372 1.0 0.0	68.8 -44.8 55.5 71.4 129	0.389 1.0 0.0	69.4 -44.0 56.5 71.6 128 0.367 1.0 0.0	0.266 1.0 0.0	64.4 -52.2 48.7 71.5 137 0.367 1.0 0.0	0.266 1.0 0.0	64.4 -52.2 48.7 71.5 137 0.367 1.0 0.0			
130	129	138	0.359 1.0 0.0	68.2 -45.8 54.7 71.4 130	0.372 1.0 0.0	68.8 -44.8 55.5 71.4 129 0.35 1.0 0.0	0.252 1.0 0.0	63.8 -53.0 47.8 71.5 138 0.35 1.0 0.0	0.252 1.0 0.0	63.8 -53.0 47.8 71.5 138 0.35 1.0 0.0			
131	130	139	0.345 1.0 0.0	67.7 -46.7 53.9 71.4 131	0.359 1.0 0.0	68.2 -45.8 54.7 71.4 130 0.333 1.0 0.0	0.237 1.0 0.0	63.3 -53.8 46.8 71.4 139 0.333 1.0 0.0	0.237 1.0 0.0	63.3 -53.8 46.8 71.4 139 0.333 1.0 0.0			
132	131	140	0.332 1.0 0.0	67.1 -47.7 53.1 71.4 132	0.345 1.0 0.0	67.7 -46.7 53.9 71.4 131 0.317 1.0 0.0	0.22 1.0 0.0	62.8 -54.5 45.9 71.3 140 0.317 1.0 0.0	0.22 1.0 0.0	62.8 -54.5 45.9 71.3 140 0.317 1.0 0.0			
133	132	141	0.319 1.0 0.0	66.6 -48.6 52.2 71.4 133	0.332 1.0 0.0	67.1 -47.7 53.1 71.4 132 0.3 1.0 0.0	0.204 1.0 0.0	62.4 -55.3 44.8 71.3 141 0.3 1.0 0.0	0.204 1.0 0.0	62.4 -55.3 44.8 71.3 141 0.3 1.0 0.0			
134	133	142	0.305 1.0 0.0	66.0 -49.5 51.4 71.4 134	0.319 1.0 0.0	66.6 -48.6 52.2 71.4 133 0.283 1.0 0.0	0.188 1.0 0.0	61.9 -56.0 43.8 71.2 142 0.283 1.0 0.0	0.188 1.0 0.0	61.9 -56.0 43.8 71.2 142 0.283 1.0 0.0			
135	134	144	0.292 1.0 0.0	65.5 -50.4 50.5 71.4 135	0.305 1.0 0.0	66.0 -49.5 51.4 71.4 134 0.267 1.0 0.0	0.155 1.0 0.0	60.9 -57.4 41.7 71.0 144 0.267 1.0 0.0	0.155 1.0 0.0	60.9 -57.4 41.7 71.0 144 0.267 1.0 0.0			
136	135	145	0.279 1.0 0.0	64.9 -51.3 49.6 71.5 136	0.292 1.0 0.0	65.5 -50.4 50.5 71.4 135 0.25 1.0 0.0	0.139 1.0 0.0	60.5 -58.0 40.7 70.9 145 0.25 1.0 0.0	0.139 1.0 0.0	60.5 -58.0 40.7 70.9 145 0.25 1.0 0.0			
137	136	146	0.266 1.0 0.0	64.4 -52.2 48.7 71.5 137	0.279 1.0 0.0	64.9 -51.3 49.6 71.5 136 0.233 1.0 0.0	0.121 1.0 0.0	60.0 -58.7 39.7 71.0 146 0.233 1.0 0.0	0.121 1.0 0.0	60.0 -58.7 39.7 71.0 146 0.233 1.0 0.0			
138	137	147	0.252 1.0 0.0	63.8 -53.0 47.8 71.5 138	0.266 1.0 0.0	64.4 -52.2 48.7 71.5 137 0.217 1.0 0.0	0.1 1.0 0.0	59.4 -59.8 38.9 71.5 147 0.217 1.0 0.0	0.1 1.0 0.0	59.4 -59.8 38.9 71.5 147 0.217 1.0 0.0			
139	138	148	0.237 1.0 0.0	63.3 -53.8 46.8 71.4 139	0.252 1.0 0.0	63.8 -53.0 47.8 71.5 138 0.2 1.0 0.0	0.078 1.0 0.0	58.8 -60.9 38.1 72.0 148 0.2 1.0 0.0	0.078 1.0 0.0	58.8 -60.9 38.1 72.0 148 0.2 1.0 0.0			
140	139	149	0.22 1.0 0.0	62.8 -54.5 45.9 71.3 140	0.237 1.0 0.0	63.3 -53.8 46.8 71.4 139 0.183 1.0 0.0	0.057 1.0 0.0	58.2 -62.0 37.3 72.5 149 0.183 1.0 0.0	0.057 1.0 0.0	58.2 -62.0 37.3 72.5 149 0.183 1.0 0.0			
141	140	151	0.204 1.0 0.0	62.4 -55.3 44.8 71.3 141	0.22 1.0 0.0	62.8 -54.5 45.9 71.3 140 0.167 1.0 0.0	0.014 1.0 0.0	57.1 -64.2 35.6 73.5 151 0.167 1.0 0.0	0.014 1.0 0.0	57.1 -64.2 35.6 73.5 151 0.167 1.0 0.0			
142	141	152	0.188 1.0 0.0	61.9 -56.0 43.8 71.2 142	0.204 1.0 0.0	62.4 -55.3 44.8 71.3 141 0.15 1.0 0.0	0.0 1.0 0.0	56.7 -64.8 34.5 73.5 152 0.15 1.0 0.0	0.0 1.0 0.0	56.7 -64.8 34.5 73.5 152 0.15 1.0 0.0			
143	142	153	0.171 1.0 0.0	61.4 -56.7 42.8 71.1 143	0.188 1.0 0.0	61.9 -56.0 43.8 71.2 142 0.133 1.0 0.0	0.0 1.0 0.0	56.7 -64.6 33.0 72.6 153 0.133 1.0 0.0	0.0 1.0 0.0	56.7 -64.6 33.0 72.6 153 0.133 1.0 0.0			
144	143	154	0.155 1.0 0.0	60.9 -57.4 41.7 71.0 144	0.171 1.0 0.0	61.4 -56.7 42.8 71.1 143 0.117 1.0 0.0	0.0 1.0 0.0	56.6 -64.3 31.4 71.7 154 0.117 1.0 0.0	0.0 1.0 0.0	56.6 -64.3 31.4 71.7 154 0.117 1.0 0.0			
145	144	155	0.139 1.0 0.0	60.5 -58.0 40.7 70.9 145	0.155 1.0 0.0	60.9 -57.4 41.7 71.0 144 0.1 1.0 0.0	0.0 1.0 0.0	56.5 -64.0 29.9 70.7 155 0.1 1.0 0.0	0.0 1.0 0.0	56.5 -64.0 29.9 70.7 155 0.1 1.0 0.0			
146	145	156	0.121 1.0 0.0	60.0 -58.7 39.7 71.0 146	0.139 1.0 0.0	60.5 -58.0 40.7 70.9 145 0.083 1.0 0.0	0.0 1.0 0.0	56.4 -63.7 28.4 69.8 156 0.083 1.0 0.0	0.0 1.0 0.0	56.4 -63.7 28.4 69.8 156 0.083 1.0 0.0			
147	146	158	0.1 1.0 0.0	59.4 -59.8 38.9 71.5 147	0.121 1.0 0.0	60.0 -58.7 39.7 71.0 146 0.067 1.0 0.0	0.0 1.0 0.0	56.3 -62.9 25.5 68.0 158 0.067 1.0 0.0	0.0 1.0 0.0	56.3 -62.9 25.5 68.0 158 0.067 1.0 0.0			
148	147	159	0.078 1.0 0.0	58.8 -60.9 38.1 72.0 148	0.1 1.0 0.0	59.4 -59.8 38.9 71.5 147 0.05 1.0 0.0	0.0 1.0 0.0	56.3 -62.5 24.0 67.0 159 0.05 1.0 0.0	0.0 1.0 0.0	56.3 -62.5 24.0 67.0 159 0.05 1.0 0.0			
149	148	160	0.057 1.0 0.0	58.2 -62.0 37.3 72.5 149	0.078 1.0 0.0	58.8 -60.9 38.1 72.0 148 0.033 1.0 0.0	0.0 1.0 0.0	56.3 -62.0 22.6 66.1 160 0.033 1.0 0.0	0.0 1.0 0.0	56.3 -62.0 22.6 66.1 160 0.033 1.0 0.0			
150	149	161	0.035 1.0 0.0	57.7 -63.1 36.5 73.0 150	0.057 1.0 0.0	58.2 -62.0 37.3 72.5 149 0.017 1.0 0.0	0.0 1.0 0.0	56.4 -61.4 21.2 65.1 161 0.017 1.0 0.0	0.0 1.0 0.0	56.4 -61.4 21.2 65.1 161 0.017 1.0 0.0			
151	150	162	0.014 1.0 0.0	57.1 -64.2 35.6 73.5 151	0.035 1.0 0.0	57.7 -63.1 36.5 73.0 150 0.0 1.0 0.0	0.0 1.0 0.0	56.4 -60.9 19.8 64.1 162 0.0 1.0 0.0	0.0 1.0 0.0	56.4 -60.9 19.8 64.1 162 0.0 1.0 0.0			
152	151	163	0.0 1.0 0.0	56.7 -64.8 34.5 73.5 152	0.014 1.0 0.0	57.1 -64.2 35.6 73.5 151 0.0 1.0 0.0	0.017 0.0 1.0 0.0	56.4 -60.3 18.5 63.2 163 0.0 1.0 0.0	0.017 0.0 1.0 0.0	56.4 -60.3 18.5 63.2 163 0.0 1.0 0.0			
153	152	164	0.0 1.0 0.0	56.7 -64.6 33.0 72.6 153	0.0 1.0 0.0	56.7 -64.8 34.5 73.5 152 0.0 1.0 0.0	0.033 0.0 1.0 0.0	56.5 -59.7 17.1 62.2 164 0.0 1.0 0.0	0.033 0.0 1.0 0.0	56.5 -59.7 17.1 62.2 164 0.0 1.0 0.0			
154	153	165	0.0 1.0 0.0	56.6 -64.3 31.4 71.7 154	0.0 1.0 0.0	56.7 -64.6 33.0 72.6 153 0.0 1.0 0.0	0.05 0.0 1.0 0.0	56.5 -59.1 15.9 61.2 165 0.0 1.0 0.0	0.05 0.0 1.0 0.0	56.5 -59.1 15.9 61.2 165 0.0 1.0 0.0			
155	154	166	0.0 1.0 0.0	56.5 -64.0 29.9 70.7 155	0.0 1.0 0.0	56.6 -64.3 31.4 71.7 154 0.0 1.0 0.0	0.067 0.0 1.0 0.0	56.5 -58.4 14.6 60.3 166 0.0 1.0 0.0	0.067 0.0 1.0 0.0	56.5 -58.4 14.6 60.3 166 0.0 1.0 0.0			
156	155	167	0.0 1.0 0.0	56.4 -63.7 28.4 69.8 156	0.0 1.0 0.0	56.5 -64.0 29.9 70.7 155 0.0 1.0 0.0	0.083 0.0 1.0 0.0	56.6 -57.9 13.4 59.6 167 0.0 1.0 0.0	0.083 0.0 1.0 0.0	56.6 -57.9 13.4 59.6 167 0.0 1.0 0.0			
157	156	168	0.0 1.0 0.0	56.4 -63.3 26.9 68.9 157	0.0 1.0 0.0	56.4 -63.7 28.4 69.8 156 0.0 1.0 0.0	0.1 0.0 1.0 0.0	56.6 -57.6 12.3 59.0 168 0.0 1.0 0.0	0.1 0.0 1.0 0.0	56.6 -57.6 12.3 59.0 168 0.0 1.0 0.0			
158	157	169	0.0 1.0 0.0	56.3 -62.9 25.5 68.0 158	0.0 1.0 0.0	56.4 -63.3 26.9 68.9 157 0.0 1.0 0.0	0.117 0.0 1.0 0.0	56.7 -57.2 11.1 58.4 169 0.0 1.0 0.0	0.117 0.0 1.0 0.0	56.7 -57.2 11.1 58.4 169 0.0 1.0 0.0			
159	158	170	0.0 1.0 0.0	56.3 -62.5 24.0 67.0 159	0.0 1.0 0.0	56.3 -62.9 25.5 68.0 158 0.0 1.0 0.0	0.133 0.0 1.0 0.0	56.7 -56.9 10.0 57.8 170 0.0 1.0 0.0	0.133 0.0 1.0 0.0	56.7 -56.9 10.0 57.8 170 0.0 1.0 0.0			
160	159	170	0.0 1.0 0.0	56.3 -62.0 22.6 66.1 160	0.0 1.0 0.0	56.3 -62.5 24.0 67.0 159 0.0 1.0 0.0	0.15 0.0 1.0 0.0	56.7 -56.9 10.0 57.8 170 0.0 1.0 0.0	0.15 0.0 1.0 0.0	56.7 -56.9 10.0 57.8 170 0.0 1.0 0.0			
161	160	171	0.0 1.0 0.0	56.4 -61.4 21.2 65.1 161	0.0 1.0 0.0	56.3 -62.0 22.6 66.1 160 0.0 1.0 0.0	0.167 0.0 1.0 0.0	56.7 -56.5 9.0 57.3 171 0.0 1.0 0.0	0.167 0.0 1.0 0.0	56.7 -56.5 9.0 57.3 171 0.0 1.0 0.0			
162	161	172	0.0 1.0 0.0	56.4 -60.9 19.8 64.1 162	0.0 1.0 0.0	56.4 -61.4 21.2 65.1 161 0.0 1.0 0.0	0.183 0.0 1.0 0.0	56.8 -56.0 7.9 56.7 172 0.0 1.0 0.0	0.183 0.0 1.0 0.0	56.8 -56.0 7.9 56.7 172 0.0 1.0 0.0			
163	162	173	0.0 1.0 0.0	56.4 -60.3 18.5 63.2 163	0.0 1.0 0.0	56.4 -60.9 19.8 64.1 162 0.0 1.0 0.0	0.2 0.0 1.0 0.0	56.8 -55.6 6.8 56.1 173 0.0 1.0 0.0	0.2 0.0 1.0 0.0	56.8 -55.6 6.8 56.1 173 0.0 1.0 0.0			
164	163	174	0.0 1.0 0.0	56.5 -59.7 17.1 62.2 164	0.0 1.0 0.0	56.4 -60.3 18.5 63.2 163 0.0 1.0 0.0	0.217 0.0 1.0 0.0	56.9 -55.1 5.8 55.5 174 0.0 1.0 0.0	0.217 0.0 1.0 0.0	56.9 -55.1 5.8 55.5 174 0.0 1.0 0.0			
165	164	175</											

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> / .PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmtechnik>

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d : $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lab,d			ab,s			ab,e			rgb* dd361Mi			LAB* dd361Mix (x=LabCh)			rgb* ds361Mi			LAB* ds361Mix (x=LabCh)			rgb* s50M			rgb* de361Mi			LAB* de361Mix (x=LabCh)			rgb* e50M			rgb* da			rgb* ds			rgb* d		
166	165	176	0.0	1.0	0.245	56.5	-58.4	14.6	60.3	166	0.0	1.0	0.229	56.5	-59.1	15.9	61.2	165	0.0	1.0	0.25	0.0	1.0	0.391	56.9	-54.3	3.8	54.5	176	0.0	1.0	0.25									
167	166	177	0.0	1.0	0.26	56.6	-57.9	13.4	59.6	167	0.0	1.0	0.245	56.5	-58.4	14.6	60.3	166	0.0	1.0	0.267	0.0	1.0	0.405	57.0	-53.8	2.8	54.0	177	0.0	1.0	0.267									
168	167	178	0.0	1.0	0.274	56.6	-57.6	12.3	59.0	168	0.0	1.0	0.26	56.6	-57.9	13.4	59.6	167	0.0	1.0	0.283	0.0	1.0	0.418	57.0	-53.4	1.9	53.5	178	0.0	1.0	0.283									
169	168	179	0.0	1.0	0.289	56.7	-57.2	11.1	58.4	169	0.0	1.0	0.274	56.6	-57.6	12.3	59.0	168	0.0	1.0	0.3	0.0	1.0	0.432	57.0	-52.9	0.9	53.0	179	0.0	1.0	0.3									
170	169	180	0.0	1.0	0.304	56.7	-56.9	10.0	57.8	170	0.0	1.0	0.289	56.7	-57.2	11.1	58.4	169	0.0	1.0	0.317	0.0	1.0	0.445	57.1	-52.4	0.0	52.5	180	0.0	1.0	0.317									
171	170	180	0.0	1.0	0.319	56.7	-56.5	9.0	57.3	171	0.0	1.0	0.304	56.7	-56.9	10.0	57.8	170	0.0	1.0	0.333	0.0	1.0	0.445	57.1	-52.4	0.0	52.5	180	0.0	1.0	0.333									
172	171	181	0.0	1.0	0.333	56.8	-56.0	7.9	56.7	172	0.0	1.0	0.319	56.7	-56.5	9.0	57.3	171	0.0	1.0	0.35	0.0	1.0	0.459	57.1	-52.0	-0.8	52.1	181	0.0	1.0	0.35									
173	172	182	0.0	1.0	0.348	56.8	-55.6	6.8	56.1	173	0.0	1.0	0.333	56.8	-56.0	7.9	56.7	172	0.0	1.0	0.367	0.0	1.0	0.473	57.1	-51.4	-1.7	51.6	182	0.0	1.0	0.367									
174	173	183	0.0	1.0	0.363	56.9	-55.1	5.8	55.5	174	0.0	1.0	0.348	56.8	-55.6	6.8	56.1	173	0.0	1.0	0.383	0.0	1.0	0.486	57.2	-50.9	-2.6	51.1	183	0.0	1.0	0.383									
175	174	184	0.0	1.0	0.377	56.9	-54.7	4.8	55.0	175	0.0	1.0	0.363	56.9	-55.1	5.8	55.5	174	0.0	1.0	0.4	0.0	1.0	0.5	57.2	-50.4	-3.4	50.6	184	0.0	1.0	0.4									
176	175	185	0.0	1.0	0.391	56.9	-54.3	3.8	54.5	176	0.0	1.0	0.377	56.9	-54.7	4.8	55.0	175	0.0	1.0	0.417	0.0	1.0	0.512	57.2	-50.0	-4.3	50.3	185	0.0	1.0	0.417									
177	176	186	0.0	1.0	0.405	57.0	-53.8	2.8	54.0	177	0.0	1.0	0.391	56.9	-54.3	3.8	54.5	176	0.0	1.0	0.433	0.0	1.0	0.524	57.2	-49.6	-5.1	50.0	186	0.0	1.0	0.433									
178	177	187	0.0	1.0	0.418	57.0	-53.4	1.9	53.5	178	0.0	1.0	0.405	57.0	-53.8	2.8	54.0	177	0.0	1.0	0.45	0.0	1.0	0.536	57.3	-49.2	-6.0	49.7	187	0.0	1.0	0.45									
179	178	188	0.0	1.0	0.432	57.0	-52.9	0.9	53.0	179	0.0	1.0	0.418	57.0	-53.4	1.9	53.5	178	0.0	1.0	0.467	0.0	1.0	0.549	57.3	-48.8	-6.8	49.4	188	0.0	1.0	0.467									
180	179	189	0.0	1.0	0.445	57.1	-52.4	0.0	52.5	180	0.0	1.0	0.432	57.0	-52.9	0.9	53.0	179	0.0	1.0	0.483	0.0	1.0	0.561	57.3	-48.3	-7.6	49.0	189	0.0	1.0	0.483									
181	180	190	0.0	1.0	0.459	57.1	-52.0	-0.8	52.1	181	0.0	1.0	0.445	57.1	-52.4	0.0	52.5	180	0.0	1.0	0.5	0.0	1.0	0.573	57.3	-47.9	-8.4	48.7	190	0.0	1.0	0.5									
182	181	191	0.0	1.0	0.473	57.1	-51.4	-1.7	51.6	182	0.0	1.0	0.459	57.1	-52.0	-0.8	52.1	181	0.0	1.0	0.517	0.0	1.0	0.585	57.3	-47.4	-9.1	48.4	191	0.0	1.0	0.517									
183	182	191	0.0	1.0	0.486	57.2	-50.9	-2.6	51.1	183	0.0	1.0	0.473	57.1	-51.4	-1.7	51.6	182	0.0	1.0	0.533	0.0	1.0	0.585	57.3	-47.4	-9.1	48.4	191	0.0	1.0	0.533									
184	183	192	0.0	1.0	0.5	57.2	-50.4	-3.4	50.6	184	0.0	1.0	0.486	57.2	-50.9	-2.6	51.1	183	0.0	1.0	0.55	0.0	1.0	0.597	57.4	-47.0	-9.9	48.1	192	0.0	1.0	0.55									
185	184	193	0.0	1.0	0.512	57.2	-50.0	-4.3	50.3	185	0.0	1.0	0.5	57.2	-50.4	-3.4	50.6	184	0.0	1.0	0.567	0.0	1.0	0.61	57.4	-46.5	-10.7	47.8	193	0.0	1.0	0.567									
186	185	194	0.0	1.0	0.524	57.2	-49.6	-5.1	50.0	186	0.0	1.0	0.512	57.2	-50.0	-4.3	50.3	185	0.0	1.0	0.583	0.0	1.0	0.622	57.4	-46.0	-11.4	47.5	194	0.0	1.0	0.583									
187	186	195	0.0	1.0	0.536	57.3	-49.2	-6.0	49.7	187	0.0	1.0	0.524	57.2	-49.6	-5.1	50.0	186	0.0	1.0	0.6	0.0	1.0	0.635	57.4	-45.6	-12.2	47.3	195	0.0	1.0	0.6									
188	187	196	0.0	1.0	0.549	57.3	-48.8	-6.8	49.4	188	0.0	1.0	0.536	57.3	-49.2	-6.0	49.7	187	0.0	1.0	0.617	0.0	1.0	0.649	57.3	-45.3	-12.9	47.2	196	0.0	1.0	0.617									
189	188	197	0.0	1.0	0.561	57.3	-48.3	-7.6	49.0	189	0.0	1.0	0.549	57.3	-48.8	-6.8	49.4	188	0.0	1.0	0.633	0.0	1.0	0.663	57.2	-44.9	-13.7	47.1	197	0.0	1.0	0.633									
190	189	198	0.0	1.0	0.573	57.3	-47.9	-8.4	48.7	190	0.0	1.0	0.561	57.3	-48.3	-7.6	49.0	189	0.0	1.0	0.65	0.0	1.0	0.676	57.2	-44.6	-14.4	47.0	198	0.0	1.0	0.65									
191	190	199	0.0	1.0	0.585	57.3	-47.4	-9.1	48.4	191	0.0	1.0	0.573	57.3	-47.9	-8.4	48.7	190	0.0	1.0	0.667	0.0	1.0	0.69	57.1	-44.2	-15.2	46.9	199	0.0	1.0	0.667									
192	191	200	0.0	1.0	0.597	57.4	-47.0	-9.9	48.1	192	0.0	1.0	0.585	57.3	-47.4	-9.1	48.4	191	0.0	1.0	0.683	0.0	1.0	0.704	57.1	-43.8	-15.9	46.7	200	0.0	1.0	0.683									
193	192	201	0.0	1.0	0.61	57.4	-46.5	-10.7	47.8	193	0.0	1.0	0.597	57.4	-47.0	-9.9	48.1	192	0.0	1.0	0.7	0.0	1.0	0.717	57.0	-43.4	-16.6	46.6	201	0.0	1.0	0.7									
194	193	201	0.0	1.0	0.622	57.4	-46.0	-11.4	47.5	194	0.0	1.0	0.61	57.4	-46.5	-10.7	47.8	193	0.0	1.0	0.717	0.0	1.0	0.717	57.0	-43.4	-16.6	46.6	201	0.0	1.0	0.717									
195	194	202	0.0	1.0	0.635	57.4	-45.6	-12.2	47.3	195	0.0	1.0	0.622	57.4	-46.0	-11.4	47.5	194	0.0	1.0	0.733	0.0	1.0	0.731	57.0	-43.0	-17.3	46.5	202	0.0	1.0	0.733									
196	195	203	0.0	1.0	0.649	57.3	-45.3	-12.9	47.2	196	0.0	1.0	0.635	57.4	-45.6	-12.2	47.3	195	0.0	1.0	0.75	0.0	1.0	0.745	56.9	-42.6	-18.0	46.4	203	0.0	1.0	0.75									
197	196	204	0.0	1.0	0.663	57.2	-44.9	-13.7	47.1	197	0.0	1.0	0.649	57.3	-45.3	-12.9	47.2	196	0.0	1.0	0.767	0.0	1.0	0.758	56.8	-42.3	-18.8	46.4	204	0.0	1.0	0.767									
198	197	205	0.0	1.0	0.676	57.2	-44.6	-14.4	47.0	198	0.0	1.0	0.663	57.2	-44.9	-13.7	47.1	197	0.0	1.0	0.783	0.0	1.0	0.77	56.6	-42.1	-19.6	46.6	205	0.0	1.0	0.783									
199	198	206	0.0	1.0	0.69	57.1	-44.2	-15.2	46.9	199	0.0	1.0	0.676	57.2	-44.6	-14.4	47.0	198	0.0	1.0	0.8	0.0	1.0	0.782	56.5	-41.9	-20.4	46.7	206	0.0	1.0	0.8									
200	199	207	0.0	1.0	0.704	57.1	-43.8	-15.9	46.7	200	0.0	1.0	0.69	57.1	-44.2	-15.2	46.9	199	0.0	1.0	0.817	0.0	1.0	0.795	56.3	-41.6	-21.2	46.8	207	0.0	1.0	0.817									
201	200	208	0.0	1.0	0.717	57.0	-43.4	-16.6	46.6	201	0.0	1.0	0.704	57.1	-43.8	-15.9	46.7	200	0.0	1.0	0.833	0.0	1.0	0.807	56.1	-41.4	-22.0	47.0	208	0.0	1.0	0.833									
202	201	209	0.0	1.0	0.731	57.0	-43.0	-17.3	46.5	202	0.0	1.0	0.717	57.0	-43.4	-16.6	46.6	201	0.0	1.0	0.85	0.0	1.0	0.82	55.9	-41.1	-22.7	47.1	209	0.0	1.0	0.85									
203	202	210	0.0	1.0	0.745	56.9	-42.6	-18.0	46.4	203	0.0	1.0	0.731	57.0	-43.0	-17.3	46.5	202	0.0	1.0	0.867	0.0	1.0	0.832	55.8	-40.8	-23.5	47.3	210	0.0	1.0	0.867									
204	203	211	0.0	1.0	0.758	56.8	-42.3	-18.8	46.4	204	0.0	1.0	0.745	56.9	-42.6	-18.0	46.4	203	0.0	1.0																					

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$															
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix(x=LabCh)}$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix(x=LabCh)}$	rgb^*_{s50M}	$1.0C_s$	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix(x=LabCh)}$	rgb^*_{e50M}	$1.0C_e$	rgb^*_d	rgb^*_s	rgb^*_e
211	210	217	0.0	1.0	0.845	55.6	-40.5	-24.3	47.4	211	0.0	1.0	0.983	1.0	
212	211	218	0.0	1.0	0.857	55.4	-40.2	-25.1	47.6	212	0.0	1.0	0.967	1.0	
213	212	219	0.0	1.0	0.87	55.2	-39.9	-25.9	47.7	213	0.0	1.0	0.951	1.0	
214	213	220	0.0	1.0	0.88	55.0	-39.6	-26.7	47.9	214	0.0	1.0	0.933	1.0	
215	214	221	0.0	1.0	0.888	54.8	-39.4	-27.5	48.2	215	0.0	1.0	0.917	1.0	
216	215	222	0.0	1.0	0.896	54.6	-39.1	-28.4	48.4	216	0.0	1.0	0.9	1.0	
217	216	222	0.0	1.0	0.904	54.4	-38.8	-29.2	48.7	217	0.0	1.0	0.883	1.0	
218	217	223	0.0	1.0	0.912	54.2	-38.5	-30.0	48.9	218	0.0	1.0	0.867	1.0	
219	218	224	0.0	1.0	0.92	53.9	-38.1	-30.9	49.2	219	0.0	1.0	0.85	1.0	
220	219	225	0.0	1.0	0.928	53.7	-37.8	-31.7	49.5	220	0.0	1.0	0.833	1.0	
221	220	226	0.0	1.0	0.936	53.5	-37.4	-32.5	49.7	221	0.0	1.0	0.817	1.0	
222	221	227	0.0	1.0	0.944	53.3	-37.0	-33.3	50.0	222	0.0	1.0	0.8	1.0	
223	222	228	0.0	1.0	0.952	53.1	-36.6	-34.2	50.2	223	0.0	1.0	0.783	1.0	
224	223	229	0.0	1.0	0.96	52.8	-36.2	-35.0	50.5	224	0.0	1.0	0.767	1.0	
225	224	230	0.0	1.0	0.968	52.6	-35.8	-35.8	50.7	225	0.0	1.0	0.75	1.0	
226	225	231	0.0	1.0	0.976	52.4	-35.3	-36.6	51.0	226	0.0	1.0	0.733	1.0	
227	226	232	0.0	1.0	0.984	52.2	-34.9	-37.4	51.3	227	0.0	1.0	0.717	1.0	
228	227	232	0.0	1.0	0.992	52.0	-34.4	-38.2	51.5	228	0.0	1.0	0.7	1.0	
229	228	233	0.0	1.0	1.0	51.7	-33.9	-39.0	51.8	229	0.0	1.0	0.683	1.0	
230	229	234	0.0	0.962	1.0	51.6	-33.3	-39.7	52.0	230	0.0	1.0	0.667	1.0	
231	230	235	0.0	0.924	1.0	51.5	-32.7	-40.4	52.1	231	0.0	1.0	0.65	1.0	
232	231	236	0.0	0.885	1.0	51.4	-32.1	-41.1	52.3	232	0.0	1.0	0.633	1.0	
233	232	237	0.0	0.86	1.0	51.4	-31.5	-41.8	52.5	233	0.0	1.0	0.617	1.0	
234	233	238	0.0	0.838	1.0	51.4	-30.8	-42.5	52.6	234	0.0	1.0	0.6	1.0	
235	234	239	0.0	0.817	1.0	51.4	-30.2	-43.1	52.8	235	0.0	1.0	0.583	1.0	
236	235	240	0.0	0.796	1.0	51.4	-29.5	-43.8	52.9	236	0.0	1.0	0.567	1.0	
237	236	241	0.0	0.775	1.0	51.4	-28.8	-44.4	53.1	237	0.0	1.0	0.55	1.0	
238	237	242	0.0	0.754	1.0	51.4	-28.1	-45.1	53.3	238	0.0	1.0	0.533	1.0	
239	238	243	0.0	0.738	1.0	51.1	-27.3	-45.5	53.2	239	0.0	1.0	0.517	1.0	
240	239	243	0.0	0.724	1.0	50.8	-26.5	-45.9	53.1	240	0.0	1.0	0.5	1.0	
241	240	244	0.0	0.709	1.0	50.5	-25.6	-46.3	53.0	241	0.0	1.0	0.483	1.0	
242	241	245	0.0	0.695	1.0	50.2	-24.7	-46.6	52.9	242	0.0	1.0	0.467	1.0	
243	242	246	0.0	0.68	1.0	49.9	-23.9	-47.0	52.8	243	0.0	1.0	0.45	1.0	
244	243	247	0.0	0.666	1.0	49.5	-23.0	-47.3	52.7	244	0.0	1.0	0.433	1.0	
245	244	248	0.0	0.651	1.0	49.2	-22.1	-47.6	52.6	245	0.0	1.0	0.417	1.0	
246	245	249	0.0	0.637	1.0	48.9	-21.3	-47.9	52.5	246	0.0	1.0	0.4	1.0	
247	246	250	0.0	0.622	1.0	48.5	-20.4	-48.1	52.4	247	0.0	1.0	0.383	1.0	
248	247	251	0.0	0.606	1.0	48.0	-19.4	-48.2	52.1	248	0.0	1.0	0.367	1.0	
249	248	252	0.0	0.589	1.0	47.4	-18.5	-48.3	51.8	249	0.0	1.0	0.35	1.0	
250	249	253	0.0	0.573	1.0	46.8	-17.5	-48.3	51.5	250	0.0	1.0	0.333	1.0	
251	250	253	0.0	0.556	1.0	46.3	-16.6	-48.4	51.3	251	0.0	1.0	0.317	1.0	
252	251	254	0.0	0.539	1.0	45.7	-15.6	-48.4	51.0	252	0.0	1.0	0.3	1.0	
253	252	255	0.0	0.523	1.0	45.2	-14.7	-48.4	50.7	253	0.0	1.0	0.283	1.0	
254	253	256	0.0	0.506	1.0	44.6	-13.8	-48.3	50.4	254	0.0	1.0	0.267	1.0	
255	254	257	0.0	0.492	1.0	44.1	-12.9	-48.4	50.2	255	0.0	1.0	0.25	1.0	
256	255	258	0.0	0.48	1.0	43.5	-12.0	-48.4	50.0	256	0.0	1.0			

OE320-7N, Page of series 7/20, RX0, D65, XYZnw=1.7, 1.8, 1.8, 87.6, 92.7, 98.0, LAB*_{nw}=14.4, 0.3, 1.4, 97.1, -0.9, 1.9, not adapted

Output: laser printer HRS16_96; separation cmyn6*, D65 and D50, page 7/20

TUB-test chart OE32; 48 and 360 step hue circles, Page 7/20
Data of laser printer HRS16_96, separation cmyn6*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn6^*_d = f_6(rgb^*_d)$

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																																			
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$			$LAB^*_{dd361Mix}(x=LabCh)$			$rgb^*_{ds361Mi}$			$LAB^*_{ds361Mix}(x=LabCh)$			rgb^*_{s50M}			$rgb^*_{de361Mi}$			$LAB^*_{de361Mix}(x=LabCh)$			rgb^*_{e50M}			rgb^*_{ddrg}								
256	255	258	0.0	0.48	1.0	43.5	-12.0	-48.4	50.0	256	0.0	0.492	1.0	44.1	-12.9	-48.4	50.2	255	0.0	0.25	1.0	0.0	0.455	1.0	42.5	-10.2	-48.5	49.6	258	0.0	0.25	1.0			
257	256	259	0.0	0.468	1.0	43.0	-11.1	-48.4	49.8	257	0.0	0.48	1.0	43.5	-12.0	-48.4	50.0	256	0.0	0.233	1.0	0.0	0.443	1.0	42.0	-9.3	-48.5	49.5	259	0.0	0.233	1.0			
258	257	260	0.0	0.455	1.0	42.5	-10.2	-48.5	49.6	258	0.0	0.468	1.0	43.0	-11.1	-48.4	49.8	257	0.0	0.217	1.0	0.0	0.43	1.0	41.5	-8.5	-48.5	49.3	260	0.0	0.217	1.0			
259	258	261	0.0	0.443	1.0	42.0	-9.3	-48.5	49.5	259	0.0	0.455	1.0	42.5	-10.2	-48.5	49.6	258	0.0	0.2	1.0	0.0	0.418	1.0	40.9	-7.6	-48.4	49.1	261	0.0	0.2	1.0			
260	259	262	0.0	0.43	1.0	41.5	-8.5	-48.5	49.3	260	0.0	0.443	1.0	42.0	-9.3	-48.5	49.5	259	0.0	0.183	1.0	0.0	0.406	1.0	40.4	-6.7	-48.4	49.0	262	0.0	0.183	1.0			
261	260	263	0.0	0.418	1.0	40.9	-7.6	-48.4	49.1	261	0.0	0.43	1.0	41.5	-8.5	-48.5	49.3	260	0.0	0.167	1.0	0.0	0.393	1.0	39.9	-5.8	-48.3	48.8	263	0.0	0.167	1.0			
262	261	264	0.0	0.406	1.0	40.4	-6.7	-48.4	49.0	262	0.0	0.418	1.0	40.9	-7.6	-48.4	49.1	261	0.0	0.15	1.0	0.0	0.381	1.0	39.4	-5.0	-48.2	48.6	264	0.0	0.15	1.0			
263	262	264	0.0	0.393	1.0	39.9	-5.8	-48.3	48.8	263	0.0	0.406	1.0	40.4	-6.7	-48.4	49.0	262	0.0	0.133	1.0	0.0	0.381	1.0	39.4	-5.0	-48.2	48.6	264	0.0	0.133	1.0			
264	263	265	0.0	0.381	1.0	39.4	-5.0	-48.2	48.6	264	0.0	0.393	1.0	39.9	-5.8	-48.3	48.8	263	0.0	0.117	1.0	0.0	0.369	1.0	38.9	-4.1	-48.2	48.5	265	0.0	0.117	1.0			
265	264	266	0.0	0.369	1.0	38.9	-4.1	-48.2	48.5	265	0.0	0.381	1.0	39.4	-5.0	-48.2	48.6	264	0.0	0.1	1.0	0.0	0.357	1.0	38.5	-3.3	-48.3	48.5	266	0.0	0.1	1.0			
266	265	267	0.0	0.357	1.0	38.5	-3.3	-48.3	48.5	266	0.0	0.369	1.0	38.9	-4.1	-48.2	48.5	265	0.0	0.083	1.0	0.0	0.345	1.0	38.0	-2.4	-48.4	48.5	267	0.0	0.083	1.0			
267	266	268	0.0	0.345	1.0	38.0	-2.4	-48.4	48.5	267	0.0	0.357	1.0	38.5	-3.3	-48.3	48.5	266	0.0	0.067	1.0	0.0	0.333	1.0	37.5	-1.6	-48.4	48.6	268	0.0	0.067	1.0			
268	267	269	0.0	0.333	1.0	37.5	-1.6	-48.4	48.6	268	0.0	0.345	1.0	38.0	-2.4	-48.4	48.5	267	0.0	0.05	1.0	0.0	0.321	1.0	37.1	-0.7	-48.5	48.6	269	0.0	0.05	1.0			
269	268	270	0.0	0.321	1.0	37.1	-0.7	-48.5	48.6	269	0.0	0.333	1.0	37.5	-1.6	-48.4	48.6	268	0.0	0.033	1.0	0.0	0.309	1.0	36.6	0.0	-48.5	48.6	270	0.0	0.033	1.0			
270	269	271	0.0	0.309	1.0	36.6	0.0	-48.5	48.6	270	0.0	0.321	1.0	37.1	-0.7	-48.5	48.6	269	0.0	0.017	1.0	0.0	0.297	1.0	36.2	0.8	-48.5	48.6	271	0.0	0.017	1.0			
271	270	272	0.0	0.297	1.0	36.2	0.8	-48.5	48.6	271	0.0	0.309	1.0	36.6	0.0	-48.5	48.6	270	0.0	0.0	1.0B _s	0.0	0.285	1.0	35.7	1.7	-48.5	48.6	272	0.0	0.0	1.0B _e			
272	271	273	0.0	0.285	1.0	35.7	1.7	-48.5	48.6	272	0.0	0.297	1.0	36.2	0.8	-48.5	48.6	271	0.017	0.0	1.0	0.0	0.273	1.0	35.3	2.5	-48.4	48.6	273	0.017	0.0	1.0			
273	272	274	0.0	0.273	1.0	35.3	2.5	-48.4	48.6	273	0.0	0.285	1.0	35.7	1.7	-48.5	48.6	272	0.033	0.0	1.0	0.0	0.261	1.0	34.8	3.4	-48.4	48.6	274	0.033	0.0	1.0			
274	273	275	0.0	0.261	1.0	34.8	3.4	-48.4	48.6	274	0.0	0.273	1.0	35.3	2.5	-48.4	48.6	273	0.05	0.0	1.0	0.0	0.249	1.0	34.4	4.2	-48.3	48.6	275	0.05	0.0	1.0			
275	274	276	0.0	0.249	1.0	34.4	4.2	-48.3	48.6	275	0.0	0.261	1.0	34.8	3.4	-48.4	48.6	274	0.067	0.0	1.0	0.0	0.239	1.0	34.4	5.1	-48.2	48.5	276	0.067	0.0	1.0			
276	275	276	0.0	0.239	1.0	34.4	5.1	-48.2	48.5	276	0.0	0.249	1.0	34.4	4.2	-48.3	48.6	275	0.083	0.0	1.0	0.0	0.239	1.0	34.4	5.1	-48.2	48.5	276	0.083	0.0	1.0			
277	276	277	0.0	0.229	1.0	34.4	5.9	-48.0	48.4	277	0.0	0.239	1.0	34.4	5.1	-48.2	48.5	276	0.1	0.0	1.0	0.0	0.229	1.0	34.4	5.9	-48.0	48.4	277	0.1	0.0	1.0			
278	277	278	0.0	0.219	1.0	34.3	6.7	-47.8	48.3	278	0.0	0.229	1.0	34.4	5.9	-48.0	48.4	277	0.117	0.0	1.0	0.0	0.219	1.0	34.3	6.7	-47.8	48.3	278	0.117	0.0	1.0			
279	278	279	0.0	0.209	1.0	34.3	7.5	-47.6	48.3	279	0.0	0.219	1.0	34.3	6.7	-47.8	48.3	278	0.133	0.0	1.0	0.0	0.209	1.0	34.3	7.5	-47.6	48.3	279	0.133	0.0	1.0			
280	279	280	0.0	0.198	1.0	34.3	8.4	-47.3	48.2	280	0.0	0.209	1.0	34.3	7.5	-47.6	48.3	279	0.15	0.0	1.0	0.0	0.198	1.0	34.3	8.4	-47.3	48.2	280	0.15	0.0	1.0			
281	280	281	0.0	0.188	1.0	34.2	9.2	-47.1	48.1	281	0.0	0.198	1.0	34.3	8.4	-47.3	48.2	280	0.167	0.0	1.0	0.0	0.188	1.0	34.2	9.2	-47.1	48.1	281	0.167	0.0	1.0			
282	281	282	0.0	0.178	1.0	34.2	10.0	-46.8	48.0	282	0.0	0.188	1.0	34.2	9.2	-47.1	48.1	281	0.183	0.0	1.0	0.0	0.178	1.0	34.2	10.0	-46.8	48.0	282	0.183	0.0	1.0			
283	282	283	0.0	0.168	1.0	34.2	10.8	-46.6	47.9	283	0.0	0.178	1.0	34.2	10.0	-46.8	48.0	282	0.2	0.0	1.0	0.0	0.168	1.0	34.2	10.8	-46.6	47.9	283	0.2	0.0	1.0			
284	283	284	0.0	0.158	1.0	34.2	11.6	-46.3	47.8	284	0.0	0.168	1.0	34.2	10.8	-46.6	47.9	283	0.217	0.0	1.0	0.0	0.158	1.0	34.2	11.6	-46.3	47.8	284	0.217	0.0	1.0			
285	284	285	0.0	0.148	1.0	34.1	12.4	-46.0	47.7	285	0.0	0.158	1.0	34.2	11.6	-46.3	47.8	284	0.233	0.0	1.0	0.0	0.148	1.0	34.1	12.4	-46.0	47.7	285	0.233	0.0	1.0			
286	285	286	0.0	0.138	1.0	34.1	13.1	-45.7	47.6	286	0.0	0.148	1.0	34.1	12.4	-46.0	47.7	285	0.25	0.0	1.0	0.0	0.138	1.0	34.1	13.1	-45.7	47.6	286	0.25	0.0	1.0			
287	286	287	0.0	0.127	1.0	34.1	13.9	-45.4	47.6	287	0.0	0.138	1.0	34.1	13.1	-45.7	47.6	286	0.267	0.0	1.0	0.0	0.127	1.0	34.1	13.9	-45.4	47.6	287	0.267	0.0	1.0			
288	287	288	0.0	0.117	1.0	33.9	14.7	-45.2	47.6	288	0.0	0.127	1.0	34.1	13.9	-45.4	47.6	287	0.283	0.0	1.0	0.0	0.117	1.0	33.9	14.7	-45.2	47.6	288	0.283	0.0	1.0			
289	288	289	0.0	0.107	1.0	33.7	15.6	-45.1	47.8	289	0.0	0.117	1.0																						

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

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Table 1: Relative lengths of the primary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the secondary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the tertiary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quaternary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quinary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the senary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the septenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the octonary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the nonary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the decenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the undecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the duodecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the tridecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quattuordecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quindecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the sexdecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the septendecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the octodecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the nonadecenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the vigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the unvigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the duovigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the trivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quadravigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quinquavigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the sexvigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the septavigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the octavigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the nonavigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the vigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the unvigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the duovigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the trivigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quadravigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the quinquavigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the sexvigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the septavigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the octavigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the nonavigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the vigintivigintivigintenary colors of Lab _d , Lab _s , and Lab _e (x=LabCh), and the unvigintivigintivigintenary 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, Lab _s , and Lab _e (x=LabCh), and the vigintivig														
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See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 31.9, 99.3, 151.6, 229.0, 299.3, 349.7$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lab,d	h _{ab,s}	h _{ab,e}	rgb* _{dd361Mi}								LAB* _{dd361Mix} (x=LabCh)								rgb* _{ds361Mi}				LAB* _{ds361Mix} (x=LabCh)				rgb* _{s50M}				rgb* _{de361Mi}				LAB* _{de361Mix} (x=LabCh)								rgb* _{e50M}				rgb* _{da}	rgb* _{ds}	rgb* _{de}
346	345	343	0.913	0.0	1.0	42.9	66.9	-16.6	69.0	346	0.889	0.0	1.0	42.2	65.8	-17.5	68.1	345	1.0	0.0	0.75	0.836	0.0	1.0	40.9	63.5	-19.3	66.4	343	1.0	0.0	0.75																	
347	346	344	0.937	0.0	1.0	43.5	68.1	-15.6	69.9	347	0.913	0.0	1.0	42.9	66.9	-16.6	69.0	346	1.0	0.0	0.733	0.864	0.0	1.0	41.5	64.6	-18.4	67.2	344	1.0	0.0	0.733																	
348	347	345	0.961	0.0	1.0	44.2	69.2	-14.6	70.8	348	0.937	0.0	1.0	43.5	68.1	-15.6	69.9	347	1.0	0.0	0.717	0.889	0.0	1.0	42.2	65.8	-17.5	68.1	345	1.0	0.0	0.717																	
349	348	346	0.984	0.0	1.0	44.9	70.4	-13.6	71.7	349	0.961	0.0	1.0	44.2	69.2	-14.6	70.8	348	1.0	0.0	0.7	0.913	0.0	1.0	42.9	66.9	-16.6	69.0	346	1.0	0.0	0.7																	
350	349	347	1.0	0.0	0.985	45.3	71.1	-12.4	72.2	350	0.984	0.0	1.0	44.9	70.4	-13.6	71.7	349	1.0	0.0	0.683	0.937	0.0	1.0	43.5	68.1	-15.6	69.9	347	1.0	0.0	0.683																	
351	350	348	1.0	0.0	0.94	45.1	71.3	-11.2	72.1	351	1.0	0.0	0.985	45.3	71.1	-12.4	72.2	350	1.0	0.0	0.667	0.961	0.0	1.0	44.2	69.2	-14.6	70.8	348	1.0	0.0	0.667																	
352	351	349	1.0	0.0	0.895	44.8	71.4	-9.9	72.1	352	1.0	0.0	0.94	45.1	71.3	-11.2	72.1	351	1.0	0.0	0.65	0.984	0.0	1.0	44.9	70.4	-13.6	71.7	349	1.0	0.0	0.65																	
353	352	349	1.0	0.0	0.864	44.8	71.3	-8.7	71.8	353	1.0	0.0	0.895	44.8	71.4	-9.9	72.1	352	1.0	0.0	0.633	0.984	0.0	1.0	44.9	70.4	-13.6	71.7	349	1.0	0.0	0.633																	
354	353	350	1.0	0.0	0.843	44.8	71.0	-7.4	71.4	354	1.0	0.0	0.864	44.8	71.3	-8.7	71.8	353	1.0	0.0	0.617	1.0	0.0	0.985	45.3	71.1	-12.4	72.2	350	1.0	0.0	0.617																	
355	354	351	1.0	0.0	0.823	44.8	70.7	-6.1	71.0	355	1.0	0.0	0.843	44.8	71.0	-7.4	71.4	354	1.0	0.0	0.6	1.0	0.0	0.94	45.1	71.3	-11.2	72.1	351	1.0	0.0	0.6																	
356	355	352	1.0	0.0	0.802	44.8	70.4	-4.8	70.6	356	1.0	0.0	0.823	44.8	70.7	-6.1	71.0	355	1.0	0.0	0.583	1.0	0.0	0.895	44.8	71.4	-9.9	72.1	352	1.0	0.0	0.583																	
357	356	353	1.0	0.0	0.782	44.8	70.1	-3.6	70.2	357	1.0	0.0	0.802	44.8	70.4	-4.8	70.6	356	1.0	0.0	0.567	1.0	0.0	0.864	44.8	71.3	-8.7	71.8	353	1.0	0.0	0.567																	
358	357	354	1.0	0.0	0.761	44.8	69.7	-2.3	69.8	358	1.0	0.0	0.782	44.8	70.1	-3.6	70.2	357	1.0	0.0	0.55	1.0	0.0	0.843	44.8	71.0	-7.4	71.4	354	1.0	0.0	0.55																	
359	358	355	1.0	0.0	0.742	44.8	69.4	-1.1	69.4	359	1.0	0.0	0.761	44.8	69.7	-2.3	69.8	358	1.0	0.0	0.533	1.0	0.0	0.823	44.8	70.7	-6.1	71.0	355	1.0	0.0	0.533																	
0	359	356	1.0	0.0	0.724	44.8	69.0	0.0	69.0	0	1.0	0.0	0.742	44.8	69.4	-1.1	69.4	359	1.0	0.0	0.517	1.0	0.0	0.802	44.8	70.4	-4.8	70.6	356	1.0	0.0	0.517																	
1	360	357	1.0	0.0	0.706	44.8	68.7	1.2	68.7	1	1.0	0.0	0.724	44.8	69.0	0.0	69.0	0	1.0	0.0	0.5	1.0	0.0	0.782	44.8	70.1	-3.6	70.2	357	1.0	0.0	0.5																	
2	361	358	1.0	0.0	0.688	44.8	68.3	2.4	68.3	2	1.0	0.0	0.706	44.8	68.7	1.2	68.7	1	1.0	0.0	0.483	1.0	0.0	0.761	44.8	69.7	-2.3	69.8	358	1.0	0.0	0.483																	
3	362	359	1.0	0.0	0.671	44.8	67.8	3.6	67.9	3	1.0	0.0	0.688	44.8	68.3	2.4	68.3	2	1.0	0.0	0.467	1.0	0.0	0.742	44.8	69.4	-1.1	69.4	359	1.0	0.0	0.467																	
4	363	360	1.0	0.0	0.653	44.8	67.4	4.7	67.6	4	1.0	0.0	0.671	44.8	67.8	3.6	67.9	3	1.0	0.0	0.45	1.0	0.0	0.724	44.8	69.0	0.0	69.0	0	1.0	0.0	0.45																	
5	364	361	1.0	0.0	0.635	44.8	66.9	5.9	67.2	5	1.0	0.0	0.653	44.8	67.4	4.7	67.6	4	1.0	0.0	0.433	1.0	0.0	0.706	44.8	68.7	1.2	68.7	1	1.0	0.0	0.433																	
6	365	362	1.0	0.0	0.615	44.8	66.5	7.0	66.9	6	1.0	0.0	0.635	44.8	66.9	5.9	67.2	5	1.0	0.0	0.417	1.0	0.0	0.688	44.8	68.3	2.4	68.3	2	1.0	0.0	0.417																	
7	366	363	1.0	0.0	0.593	44.7	66.2	8.1	66.7	7	1.0	0.0	0.615	44.8	66.5	7.0	66.9	6	1.0	0.0	0.4	1.0	0.0	0.671	44.8	67.8	3.6	67.9	3	1.0	0.0	0.4																	
8	367	364	1.0	0.0	0.571	44.7	65.8	9.2	66.4	8	1.0	0.0	0.593	44.7	66.2	8.1	66.7	7	1.0	0.0	0.383	1.0	0.0	0.653	44.8	67.4	4.7	67.6	4	1.0	0.0	0.383																	
9	368	365	1.0	0.0	0.549	44.7	65.4	10.4	66.2	9	1.0	0.0	0.571	44.7	65.8	9.2	66.4	8	1.0	0.0	0.367	1.0	0.0	0.635	44.8	66.9	5.9	67.2	5	1.0	0.0	0.367																	
10	369	366	1.0	0.0	0.527	44.7	64.9	11.5	65.9	10	1.0	0.0	0.549	44.7	65.4	10.4	66.2	9	1.0	0.0	0.35	1.0	0.0	0.615	44.8	66.5	7.0	66.9	6	1.0	0.0	0.35																	
11	370	367	1.0	0.0	0.504	44.7	64.5	12.5	65.7	11	1.0	0.0	0.527	44.7	64.9	11.5	65.9	10	1.0	0.0	0.333	1.0	0.0	0.593	44.7	66.2	8.1	66.7	7	1.0	0.0	0.333																	
12	371	367	1.0	0.0	0.483	44.7	64.3	13.7	65.7	12	1.0	0.0	0.504	44.7	64.5	12.5	65.7	11	1.0	0.0	0.317	1.0	0.0	0.593	44.7	66.2	8.1	66.7	7	1.0	0.0	0.317																	
13	372	368	1.0	0.0	0.461	44.7	64.1	14.8	65.8	13	1.0	0.0	0.483	44.7	64.3	13.7	65.7	12	1.0	0.0	0.3	1.0	0.0	0.571	44.7	65.8	9.2	66.4	8	1.0	0.0	0.3																	
14	373	369	1.0	0.0	0.44	44.7	63.9	15.9	65.8	14	1.0	0.0	0.461	44.7	64.1	14.8	65.8	13	1.0	0.0	0.283	1.0	0.0	0.549	44.7	65.4	10.4	66.2	9	1.0	0.0	0.283																	
15	374	370	1.0	0.0	0.419	44.7	63.6	17.1	65.9	15	1.0	0.0	0.44	44.7	63.9	15.9	65.8	14	1.0	0.0	0.267	1.0	0.0	0.527	44.7	64.9	11.5	65.9	10	1.0	0.0	0.267																	
16	375	371	1.0	0.0	0.397	44.7	63.4	18.2	65.9	16	1.0	0.0	0.419	44.7	63.6	17.1	65.9	15	1.0	0.0	0.25	1.0	0.0	0.504	44.7	64.5	12.5	65.7	11	1.0	0.0	0.25																	
17	376	372	1.0	0.0	0.376	44.6	63.1	19.3	66.0	17	1.0	0.0	0.397	44.7	63.4	18.2	65.9	16	1.0	0.0	0.233	1.0	0.0	0.483	44.7	64.3	13.7	65.7	12	1.0	0.0	0.233																	
18	377	373	1.0	0.0	0.355	44.7	63.0	20.5	66.2	18	1.0	0.0	0.376																																				

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Y=J_d Yellow

$LCH^*_d = 91.8 \ 83.1 \ 95.1$

$LAB^*_d = 91.8 \ -7.4 \ 82.7$

$rgb^*_d = 1.0 \ 1.0 \ 0.0$

L=G_d Leaf green

$LCH^*_d = 55.9 \ 68.1 \ 152.8$

$LAB^*_d = 55.9 \ -60.6 \ 31.0$

$rgb^*_d = 0.0 \ 1.0 \ 0.0$

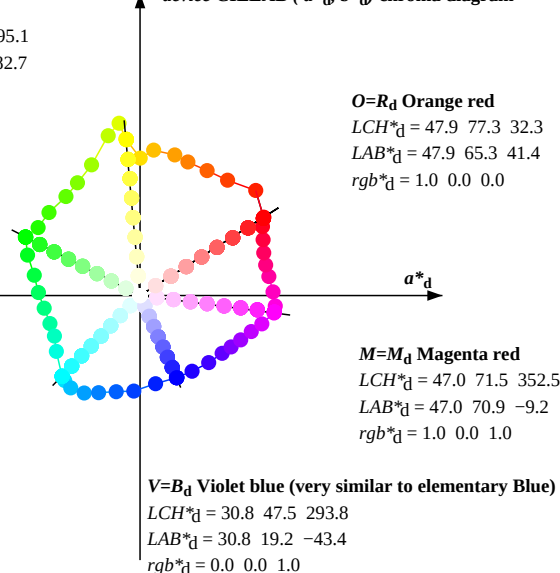
C=C_d Cyan blue

$LCH^*_d = 50.1 \ 59.3 \ 225.8$

$LAB^*_d = 50.1 \ -41.3 \ -42.5$

$rgb^*_d = 0.0 \ 1.0 \ 1.0$

device CIELAB (a^*_d, b^*_d) chroma diagram



O=R_d Orange red

$LCH^*_d = 47.9 \ 77.3 \ 32.3$

$LAB^*_d = 47.9 \ 65.3 \ 41.4$

$rgb^*_d = 1.0 \ 0.0 \ 0.0$

M=M_d Magenta red

$LCH^*_d = 47.0 \ 71.5 \ 352.5$

$LAB^*_d = 47.0 \ 70.9 \ -9.2$

$rgb^*_d = 1.0 \ 0.0 \ 1.0$

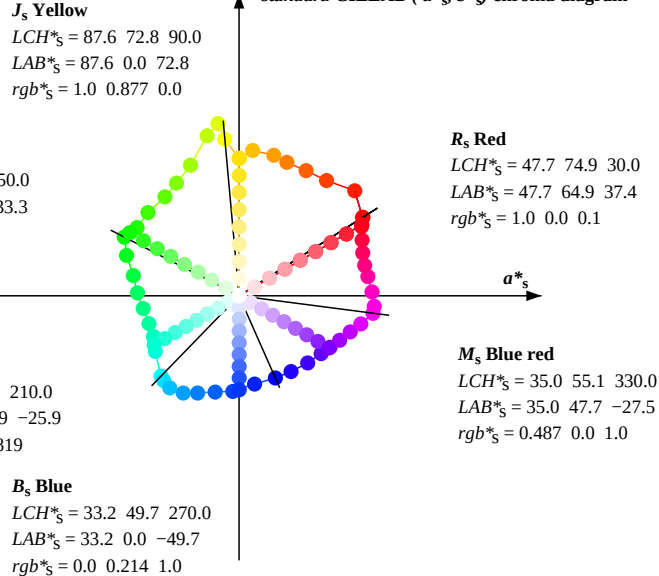
V=B_d Violet blue (very similar to elementary Blue)

$LCH^*_d = 30.8 \ 47.5 \ 293.8$

$LAB^*_d = 30.8 \ 19.2 \ -43.4$

$rgb^*_d = 0.0 \ 0.0 \ 1.0$

standard CIELAB (a^*_s, b^*_s) chroma diagram



J_s Yellow

$LCH^*_s = 87.6 \ 72.8 \ 90.0$

$LAB^*_s = 87.6 \ 0.0 \ 72.8$

$rgb^*_s = 1.0 \ 0.877 \ 0.0$

G_s Green

$LCH^*_s = 57.4 \ 66.6 \ 150.0$

$LAB^*_s = 57.4 \ -57.7 \ 33.3$

$rgb^*_s = 0.054 \ 1.0 \ 0.0$

C_s Blue green

$LCH^*_s = 54.6 \ 51.8 \ 210.0$

$LAB^*_s = 54.6 \ -44.9 \ -25.9$

$rgb^*_s = 0.0 \ 1.0 \ 0.819$

B_s Blue

$LCH^*_s = 33.2 \ 49.7 \ 270.0$

$LAB^*_s = 33.2 \ 0.0 \ -49.7$

$rgb^*_s = 0.0 \ 0.214 \ 1.0$

R_s Red

$LCH^*_s = 47.7 \ 74.9 \ 30.0$

$LAB^*_s = 47.7 \ 64.9 \ 37.4$

$rgb^*_s = 1.0 \ 0.0 \ 0.1$

M_s Blue red

$LCH^*_s = 35.0 \ 55.1 \ 330.0$

$LAB^*_s = 35.0 \ 47.7 \ -27.5$

$rgb^*_s = 0.487 \ 0.0 \ 1.0$

J_e Yellow

$LCH^*_e = 89.2 \ 76.8 \ 92.0$

$LAB^*_e = 89.2 \ -2.6 \ 76.7$

$rgb^*_e = 1.0 \ 0.924 \ 0.0$

G_e Green

$LCH^*_e = 55.4 \ 61.9 \ 162.0$

$LAB^*_e = 55.4 \ -58.9 \ 19.1$

$rgb^*_e = 0.0 \ 1.0 \ 0.149$

C_e Blue green

$LCH^*_e = 52.7 \ 54.8 \ 217.0$

$LAB^*_e = 52.7 \ -43.8 \ -33.0$

$rgb^*_e = 0.0 \ 1.0 \ 0.909$

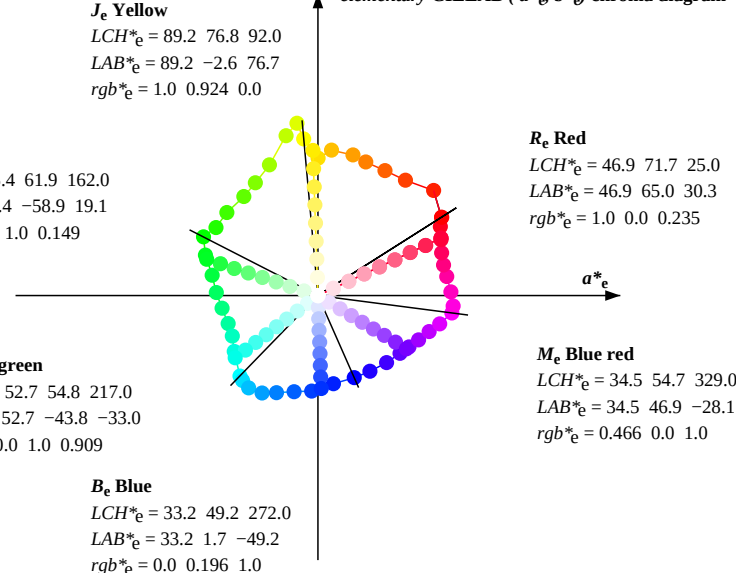
B_e Blue

$LCH^*_e = 33.2 \ 49.2 \ 272.0$

$LAB^*_e = 33.2 \ 1.7 \ -49.2$

$rgb^*_e = 0.0 \ 0.196 \ 1.0$

elementary CIELAB (a^*_e, b^*_e) chroma diagram



R_e Red

$LCH^*_e = 46.9 \ 71.7 \ 25.0$

$LAB^*_e = 46.9 \ 65.0 \ 30.3$

$rgb^*_e = 1.0 \ 0.0 \ 0.235$

M_e Blue red

$LCH^*_e = 34.5 \ 54.7 \ 329.0$

$LAB^*_e = 34.5 \ 46.9 \ -28.1$

$rgb^*_e = 0.466 \ 0.0 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_d -input values the CIELAB data LCH^*_d and LAB^*_d have been measured.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_d the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s: $h_{ab,si} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e: $h_{ab,ei} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 3.

6. The values rgb^*_d produce the output of the device-independent elementary hues

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd50M}	$LAB^*_{dd50Mx(x=LabCh)}$	rgb^*_{ds50M}	$LAB^*_{ds50Mx(x=LabCh)}$	rgb^*_{s50M}	rgb^*_{de50M}	$LAB^*_{de50Mx(x=LabCh)}$	rgb^*_{e50M}
32.4	30.0	25.5	1.0	0.0	0.0	48.0	65.4	41.4	77.4	32.4
42.2	37.5	33.8	1.0	0.125	0.0	54.0	61.2	55.6	82.7	42.2
52.8	45.0	42.2	1.0	0.25	0.0	61.6	46.3	61.0	76.6	52.8
61.8	52.5	50.5	1.0	0.375	0.0	67.4	35.4	66.2	75.1	61.8
70.3	60.0	58.9	1.0	0.5	0.0	72.7	25.3	70.6	75.0	70.3
76.0	67.5	67.2	1.0	0.625	0.0	76.5	18.5	74.4	76.6	76.0
84.7	75.0	75.6	1.0	0.75	0.0	83.0	7.1	76.9	77.2	84.7
89.9	82.5	84.0	1.0	0.875	0.0	87.5	0.1	72.7	72.7	89.9
95.2	90.0	92.3	1.0	1.0	0.0	91.9	-7.4	82.8	83.1	95.2
96.9	97.5	101.1	0.875	1.0	0.0	94.0	-11.0	91.2	91.9	96.9
101.3	105.0	109.8	0.75	1.0	0.0	88.8	-16.8	84.6	86.3	101.3
110.3	112.5	118.5	0.625	1.0	0.0	80.2	-25.5	69.1	73.7	110.3
119.0	120.0	127.3	0.5	1.0	0.0	73.5	-33.0	59.7	68.2	119.0
126.9	127.5	136.0	0.375	1.0	0.0	68.6	-39.1	52.3	65.4	126.9
137.6	135.0	144.7	0.25	1.0	0.0	63.2	-48.0	44.0	65.2	137.6
146.3	142.5	153.5	0.125	1.0	0.0	59.4	-53.9	36.0	64.9	146.3
152.9	150.0	162.2	0.0	1.0	0.0	55.9	-60.5	31.0	68.1	152.9
160.2	157.5	169.1	0.0	1.0	0.125	55.4	-59.3	21.4	63.2	160.2
169.2	165.0	175.9	0.0	1.0	0.25	55.6	-55.9	10.7	57.0	169.2
178.2	172.5	182.8	0.0	1.0	0.375	55.9	-53.7	1.6	53.9	178.2
187.6	180.0	189.6	0.0	1.0	0.5	56.1	-50.6	-6.6	51.2	187.6
197.3	187.5	196.4	0.0	1.0	0.625	56.2	-47.5	-14.7	49.8	197.3
205.4	195.0	203.3	0.0	1.0	0.75	55.7	-45.2	-21.4	50.2	205.4
213.7	202.5	210.1	0.0	1.0	0.875	53.8	-44.2	-29.4	53.2	213.7
225.9	210.0	217.0	0.0	1.0	1.0	50.1	-41.2	-42.5	59.3	225.9
228.4	217.5	223.8	0.0	0.875	1.0	49.7	-39.8	-44.8	60.1	228.4
233.1	225.0	230.7	0.0	0.75	1.0	49.7	-36.5	-48.7	61.0	233.1
240.2	232.5	237.5	0.0	0.625	1.0	47.0	-29.4	-51.4	59.4	240.2
246.8	240.0	244.4	0.0	0.5	1.0	42.8	-21.9	-51.3	55.9	246.8
256.1	247.5	251.2	0.0	0.375	1.0	37.8	-12.5	-50.8	52.4	256.1
266.2	255.0	258.0	0.0	0.25	1.0	33.2	-3.3	-50.5	50.7	266.2
279.9	262.5	264.9	0.0	0.125	1.0	33.2	8.1	-46.6	47.4	279.9
293.8	270.0	271.7	0.0	0.0	1.0	30.8	19.2	-43.4	47.5	293.8
304.4	277.5	278.8	0.125	0.0	1.0	30.8	27.5	-40.0	48.6	304.4
315.6	285.0	286.0	0.25	0.0	1.0	30.9	36.2	-35.4	50.8	315.6
324.7	292.5	293.1	0.375	0.0	1.0	32.8	43.3	-30.6	53.1	324.7
330.6	300.0	300.2	0.5	0.0	1.0	35.3	48.2	-27.1	55.3	330.6
336.2	307.5	307.3	0.625	0.0	1.0	37.8	53.3	-23.4	58.2	336.2
342.0	315.0	314.4	0.75	0.0	1.0	40.1	58.8	-19.0	61.8	342.0
347.0	322.5	321.5	0.875	0.0	1.0	43.2	64.4	-14.8	66.1	347.0
352.6	330.0	328.6	1.0	0.0	1.0	47.0	70.9	-9.1	71.5	352.6
355.5	337.5	335.7	1.0	0.0	0.875	46.5	71.5	-5.5	71.7	355.5
361.7	345.0	342.8	1.0	0.0	0.75	46.6	70.3	2.0	70.4	361.7
368.4	352.5	349.9	1.0	0.0	0.625	46.6	68.2	10.1	68.9	368.4
373.7	360.0	357.0	1.0	0.0	0.5	46.5	66.4	16.2	68.3	373.7
379.1	367.5	364.2	1.0	0.0	0.375	46.5	65.5	22.7	69.3	379.1
384.4	375.0	371.3	1.0	0.0	0.25	46.9	65.0	29.5	71.4	384.4
389.4	382.5	378.4	1.0	0.0	0.125	47.7	64.8	36.5	74.4	389.4
392.4	390.0	385.5	1.0	0.0	0.0	48.0	65.4	41.4	77.4	392.4

OE320-7N, Page of series 12/20, RX0, D50, XYZnw=1.8, 1.8, 1.4, 89.1, 92.8, 74.4, LAB*nw=14.4, 0.5, 1.4, 97.1, -0.6, 1.9, not adapted

Output: laser printer HRS16_96; separation cmyn6*, D65 and D50, page 12/20

TUB-test chart OE32; 48 and 360 step hue circles, Page 12/20
Data of laser printer HRS16_96, separation cmyn6*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn6^*_d = f_6(rgb^*_d)$

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix}(x=LabCh)$	rgb^*_{s50M}	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix}(x=LabCh)$	rgb^*_{e50M}	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32	30	25	1.0 0.0 0.016	47.9 65.3 40.8	77.0 32	1.0 0.0 0.101	47.8 64.9 37.5	75.0 30	1.0 0.0 0.235	47.0 65.0 30.3	71.7 25	1.0 0.0 0.0	0.0
33	31	27	1.0 0.008 0.0	48.3 65.2 42.3	77.7 33	1.0 0.0 0.058	47.9 65.1 39.1	76.0 31	1.0 0.0 0.185	47.3 65.0 33.1	72.9 27	1.0 0.0 0.017	0.0
34	32	28	1.0 0.021 0.0	48.9 64.9 43.8	78.3 34	1.0 0.0 0.016	47.9 65.3 40.8	77.0 32	1.0 0.0 0.16	47.5 64.9 34.5	73.5 28	1.0 0.0 0.033	0.0
35	33	29	1.0 0.033 0.0	49.6 64.5 45.2	78.8 35	1.0 0.008 0.0	48.3 65.2 42.3	77.7 33	1.0 0.0 0.136	47.7 64.8 35.9	74.1 29	1.0 0.0 0.05	0.0
36	34	30	1.0 0.046 0.0	50.2 64.2 46.6	79.3 36	1.0 0.021 0.0	48.9 64.9 43.8	78.3 34	1.0 0.0 0.101	47.8 64.9 37.5	75.0 30	1.0 0.0 0.067	0.0
37	35	31	1.0 0.059 0.0	50.8 63.8 48.1	79.9 37	1.0 0.033 0.0	49.6 64.5 45.2	78.8 35	1.0 0.0 0.058	47.9 65.1 39.1	76.0 31	1.0 0.0 0.083	0.0
38	36	32	1.0 0.071 0.0	51.4 63.4 49.5	80.4 38	1.0 0.046 0.0	50.2 64.2 46.6	79.3 36	1.0 0.0 0.016	47.9 65.3 40.8	77.0 32	1.0 0.1 0.0	0.0
39	37	33	1.0 0.084 0.0	52.0 62.9 50.9	80.9 39	1.0 0.059 0.0	50.8 63.8 48.1	79.9 37	1.0 0.008 0.0	48.3 65.2 42.3	77.7 33	1.0 0.117	0.0
40	38	34	1.0 0.097 0.0	52.6 62.4 52.4	81.5 40	1.0 0.071 0.0	51.4 63.4 49.5	80.4 38	1.0 0.021 0.0	48.9 64.9 43.8	78.3 34	1.0 0.133	0.0
41	39	36	1.0 0.109 0.0	53.2 61.9 53.8	82.0 41	1.0 0.084 0.0	52.0 62.9 50.9	80.9 39	1.0 0.046 0.0	50.2 64.2 46.6	79.3 36	1.0 0.15	0.0
42	40	37	1.0 0.122 0.0	53.8 61.3 55.2	82.6 42	1.0 0.097 0.0	52.6 62.4 52.4	81.5 40	1.0 0.059 0.0	50.8 63.8 48.1	79.9 37	1.0 0.167	0.0
43	41	38	1.0 0.134 0.0	54.5 60.1 56.1	82.2 43	1.0 0.109 0.0	53.2 61.9 53.8	82.0 41	1.0 0.071 0.0	51.4 63.4 49.5	80.4 38	1.0 0.183	0.0
44	42	39	1.0 0.146 0.0	55.2 58.7 56.7	81.7 44	1.0 0.122 0.0	53.8 61.3 55.2	82.6 42	1.0 0.084 0.0	52.0 62.9 50.9	80.9 39	1.0 0.2	0.0
45	43	40	1.0 0.158 0.0	56.0 57.3 57.3	81.1 45	1.0 0.134 0.0	54.5 60.1 56.1	82.2 43	1.0 0.097 0.0	52.6 62.4 52.4	81.5 40	1.0 0.217	0.0
46	44	41	1.0 0.17 0.0	56.7 55.9 57.9	80.5 46	1.0 0.146 0.0	55.2 58.7 56.7	81.7 44	1.0 0.109 0.0	53.2 61.9 53.8	82.0 41	1.0 0.233	0.0
47	45	42	1.0 0.182 0.0	57.4 54.5 58.4	79.9 47	1.0 0.158 0.0	56.0 57.3 57.3	81.1 45	1.0 0.122 0.0	53.8 61.3 55.2	82.6 42	1.0 0.25	0.0
48	46	43	1.0 0.193 0.0	58.1 53.1 59.0	79.3 48	1.0 0.17 0.0	56.7 55.9 57.9	80.5 46	1.0 0.134 0.0	54.5 60.1 56.1	82.2 43	1.0 0.267	0.0
49	47	44	1.0 0.205 0.0	58.8 51.7 59.4	78.8 49	1.0 0.182 0.0	57.4 54.5 58.4	79.9 47	1.0 0.146 0.0	55.2 58.7 56.7	81.7 44	1.0 0.283	0.0
50	48	46	1.0 0.217 0.0	59.6 50.3 59.9	78.2 50	1.0 0.193 0.0	58.1 53.1 59.0	79.3 48	1.0 0.17 0.0	56.7 55.9 57.9	80.5 46	1.0 0.3	0.0
51	49	47	1.0 0.229 0.0	60.3 48.8 60.3	77.6 51	1.0 0.205 0.0	58.8 51.7 59.4	78.8 49	1.0 0.182 0.0	57.4 54.5 58.4	79.9 47	1.0 0.317	0.0
52	50	48	1.0 0.241 0.0	61.0 47.4 60.7	77.0 52	1.0 0.217 0.0	59.6 50.3 59.9	78.2 50	1.0 0.193 0.0	58.1 53.1 59.0	79.3 48	1.0 0.333	0.0
53	51	49	1.0 0.253 0.0	61.7 46.1 61.1	76.5 53	1.0 0.229 0.0	60.3 48.8 60.3	77.6 51	1.0 0.205 0.0	58.8 51.7 59.4	78.8 49	1.0 0.35	0.0
54	52	50	1.0 0.267 0.0	62.3 44.9 61.8	76.4 54	1.0 0.241 0.0	61.0 47.4 60.7	77.0 52	1.0 0.217 0.0	59.6 50.3 59.9	78.2 50	1.0 0.367	0.0
55	53	51	1.0 0.281 0.0	63.0 43.7 62.4	76.2 55	1.0 0.253 0.0	61.7 46.1 61.1	76.5 53	1.0 0.229 0.0	60.3 48.8 60.3	77.6 51	1.0 0.383	0.0
56	54	52	1.0 0.294 0.0	63.6 42.5 63.0	76.0 56	1.0 0.267 0.0	62.3 44.9 61.8	76.4 54	1.0 0.241 0.0	61.0 47.4 60.7	77.0 52	1.0 0.4	0.0
57	55	53	1.0 0.308 0.0	64.3 41.3 63.6	75.9 57	1.0 0.281 0.0	63.0 43.7 62.4	76.2 55	1.0 0.253 0.0	61.7 46.1 61.1	76.5 53	1.0 0.417	0.0
58	56	54	1.0 0.322 0.0	64.9 40.1 64.2	75.7 58	1.0 0.294 0.0	63.6 42.5 63.0	76.0 56	1.0 0.267 0.0	62.3 44.9 61.8	76.4 54	1.0 0.433	0.0
59	57	56	1.0 0.336 0.0	65.5 38.9 64.7	75.5 59	1.0 0.308 0.0	64.3 41.3 63.6	75.9 57	1.0 0.294 0.0	63.6 42.5 63.0	76.0 56	1.0 0.45	0.0
60	58	57	1.0 0.35 0.0	66.2 37.7 65.3	75.4 60	1.0 0.322 0.0	64.9 40.1 64.2	75.7 58	1.0 0.308 0.0	64.3 41.3 63.6	75.9 57	1.0 0.467	0.0
61	59	58	1.0 0.364 0.0	66.8 36.5 65.8	75.2 61	1.0 0.336 0.0	65.5 38.9 64.7	75.5 59	1.0 0.322 0.0	64.9 40.1 64.2	75.7 58	1.0 0.483	0.0
62	60	59	1.0 0.378 0.0	67.5 35.2 66.3	75.1 62	1.0 0.35 0.0	66.2 37.7 65.3	75.4 60	1.0 0.336 0.0	65.5 38.9 64.7	75.5 59	1.0 0.5	0.0
63	61	60	1.0 0.392 0.0	68.1 34.1 66.9	75.0 63	1.0 0.364 0.0	66.8 36.5 65.8	75.2 61	1.0 0.35 0.0	66.2 37.7 65.3	75.4 60	1.0 0.517	0.0
64	62	61	1.0 0.407 0.0	68.7 32.9 67.4	75.0 64	1.0 0.378 0.0	67.5 35.2 66.3	75.1 62	1.0 0.364 0.0	66.8 36.5 65.8	75.2 61	1.0 0.533	0.0
65	63	62	1.0 0.422 0.0	69.3 31.7 68.0	75.0 65	1.0 0.392 0.0	68.1 34.1 66.9	75.0 63	1.0 0.378 0.0	67.5 35.2 66.3	75.1 62	1.0 0.55	0.0
66	64	63	1.0 0.437 0.0	70.0 30.5 68.5	75.0 66	1.0 0.407 0.0	68.7 32.9 67.4	75.0 64	1.0 0.392 0.0	68.1 34.1 66.9	75.0 63	1.0 0.567	0.0
67	65	64	1.0 0.451 0.0	70.6 29.3 69.1	75.0 67	1.0 0.422 0.0	69.3 31.7 68.0	75.0 65	1.0 0.407 0.0	68.7 32.9 67.4	75.0 64	1.0 0.583	0.0
68	66	66	1.0 0.466 0.0	71.2 28.1 69.6	75.0 68	1.0 0.437 0.0	70.0 30.5 68.5	75.0 66	1.0 0.437 0.0	70.0 30.5 68.5	75.0 66	1.0 0.6	0.0
69	67	67	1.0 0.481 0.0	71.8 26.9 70.0	75.0 69	1.0 0.451 0.0	70.6 29.3 69.1	75.0 67	1.0 0.451 0.0	70.6 29.3 69.1	75.0 67	1.0 0.617	0.0
70	68	68	1.0 0.496 0.0	72.5 25.7 70.5	75.0 70	1.0 0.466 0.0	71.2 28.1 69.6	75.0 68	1.0 0.466 0.0	71.2 28.1 69.6	75.0 68	1.0 0.633	0.0
71	69	69	1.0 0.515 0.0	73.1 24.5 71.1	75.2 71	1.0 0.481 0.0	71.8 26.9 70.0	75.0 69	1.0 0.481 0.0	71.8 26.9 70.0	75.0 69	1.0 0.65	0.0
72	70	70	1.0 0.537 0.0	73.8 23.3 71.8	75.5 72	1.0 0.496 0.0	72.5 25.7 70.5	75.0 70	1.0 0.496 0.0	72.5 25.7 70.5	75.0 70	1.0 0.667	0.0
73	71	71	1.0 0.559 0.0	74.4 22.2 72.5	75.8 73	1.0 0.515 0.0	73.1 24.5 71.1	75.2 71	1.0 0.515 0.0	73.1 24.5 71.1	75.2 71	1.0 0.683	0.0
74	72	72	1.0 0.581 0.0	75.1 21.0 73.1	76.1 74	1.0 0.537 0.0	73.8 23.3 71.8	75.5 72	1.0 0.537 0.0	73.8 23.3 71.8	75.5 72	1.0 0.7	0.0
75	73	73	1.0 0.602 0.0	75.8 19.8 73.7	76.3 75	1.0 0.559 0.0	74.4 22.2 72.5	75.8 73	1.0 0.559 0.0	74.4 22.2 72.5	75.8 73	1.0 0.717	0.0
76	74	74	1.0 0.624 0.0	76.4 18.5 74.3	76.6 76	1.0 0.581 0.0	75.1 21.0 73.1	76.1 74	1.0 0.581 0.0	75.1 21.0 73.1	76.1 74	1.0 0.733	0.0
77	75	76	1.0 0.639 0.0	77.2 17.3 74.7	76.7 77	1.0 0.602 0.0	75.8 19.8 73.7	76.3 75	1.0 0.624 0.0	76.4 18.5 74.3	76.6 76	1.0 0.75	0.0

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix(x=LabCh)}$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix(x=LabCh)}$	rgb^*_{s50M}	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix(x=LabCh)}$	rgb^*_{e50M}	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}	
77	75	76	1.0	0.639 0.0	77.2	17.3 74.7 76.7	77	1.0	0.624 0.0	76.4	18.5 74.3 76.6	76	1.0	0.75 0.0
78	76	77	1.0	0.653 0.0	77.9	16.0 75.1 76.8	78	1.0	0.639 0.0	77.2	17.3 74.7 76.7	77	1.0	0.767 0.0
79	77	78	1.0	0.668 0.0	78.7	14.7 75.4 76.8	79	1.0	0.653 0.0	77.9	16.0 75.1 76.8	78	1.0	0.783 0.0
80	78	79	1.0	0.682 0.0	79.4	13.4 75.7 76.9	80	1.0	0.668 0.0	78.7	14.7 75.4 76.8	79	1.0	0.8 0.0
81	79	80	1.0	0.697 0.0	80.2	12.0 76.0 77.0	81	1.0	0.682 0.0	79.4	13.4 75.7 76.9	80	1.0	0.817 0.0
82	80	81	1.0	0.711 0.0	81.0	10.7 76.3 77.1	82	1.0	0.697 0.0	80.2	12.0 76.0 77.0	81	1.0	0.833 0.0
83	81	82	1.0	0.725 0.0	81.7	9.4 76.5 77.1	83	1.0	0.711 0.0	81.0	10.7 76.3 77.1	82	1.0	0.85 0.0
84	82	83	1.0	0.74 0.0	82.5	8.1 76.8 77.2	84	1.0	0.725 0.0	81.7	9.4 76.5 77.1	83	1.0	0.867 0.0
85	83	85	1.0	0.757 0.0	83.3	6.7 76.7 77.0	85	1.0	0.757 0.0	83.3	6.7 76.7 77.0	85	1.0	0.883 0.0
86	84	86	1.0	0.781 0.0	84.1	5.3 75.9 76.1	86	1.0	0.781 0.0	84.1	5.3 75.9 76.1	86	1.0	0.9 0.0
87	85	87	1.0	0.805 0.0	85.0	3.9 75.1 75.2	87	1.0	0.805 0.0	85.0	3.9 75.1 75.2	87	1.0	0.917 0.0
88	86	88	1.0	0.829 0.0	85.9	2.6 74.3 74.3	88	1.0	0.829 0.0	85.9	2.6 74.3 74.3	88	1.0	0.933 0.0
89	87	89	1.0	0.853 0.0	86.8	1.3 73.4 73.4	89	1.0	0.853 0.0	86.8	1.3 73.4 73.4	89	1.0	0.95 0.0
90	88	90	1.0	0.877 0.0	87.6	0.0 72.9 72.9	90	1.0	0.877 0.0	87.6	0.0 72.9 72.9	90	1.0	0.967 0.0
91	89	91	1.0	0.901 0.0	88.4	-1.2 74.8 74.8	91	1.0	0.901 0.0	88.4	-1.2 74.8 74.8	91	1.0	0.983 0.0
92	90	92	1.0	0.925 0.0	89.3	-2.6 76.8 76.8	92	1.0	0.925 0.0	89.3	-2.6 76.8 76.8	92	1.0	0.0J _e
93	91	93	1.0	0.948 0.0	90.1	-4.0 78.7 78.8	93	1.0	0.948 0.0	90.1	-4.0 78.7 78.8	93	0.983	1.0 0.0
94	92	95	1.0	0.972 0.0	90.9	-5.5 80.6 80.8	94	1.0	0.996 0.0	91.7	-7.1 82.5 82.8	95	0.967	1.0 0.0
95	93	96	1.0	0.996 0.0	91.7	-7.1 82.5 82.8	95 J _d	1.0	0.942 1.0 0.0	92.8	-9.0 86.7 87.2	96	0.95	1.0 0.0
96	94	97	0.942	1.0 0.0	92.8	-9.0 86.7 87.2	96	1.0	0.873 1.0 0.0	93.9	-11.1 91.1 91.8	97	0.933	1.0 0.0
97	95	98	0.873	1.0 0.0	93.9	-11.1 91.1 91.8	97	1.0	0.845 1.0 0.0	92.7	-12.5 89.6 90.5	98	0.917	1.0 0.0
98	96	99	0.845	1.0 0.0	92.7	-12.5 89.6 90.5	98	0.942	1.0 0.0	91.5	-13.9 88.1 89.2	99	0.9	1.0 0.0
99	97	100	0.816	1.0 0.0	91.5	-13.9 88.1 89.2	99	0.873	1.0 0.0	90.3	-15.2 86.6 88.0	100	0.883	1.0 0.0
100	98	102	0.788	1.0 0.0	90.3	-15.2 86.6 88.0	100	0.845	1.0 0.0	92.7	-12.5 89.6 90.5	98	0.867	1.0 0.0
101	99	103	0.759	1.0 0.0	89.2	-16.4 85.1 86.7	101	0.816	1.0 0.0	91.5	-13.9 88.1 89.2	99	0.85	1.0 0.0
102	100	104	0.741	1.0 0.0	88.1	-17.6 83.5 85.4	102	0.788	1.0 0.0	90.3	-15.2 86.6 88.0	100	0.833	1.0 0.0
103	101	105	0.727	1.0 0.0	87.2	-18.8 81.8 84.0	103	0.759	1.0 0.0	89.2	-16.4 85.1 86.7	101	0.817	1.0 0.0
104	102	106	0.713	1.0 0.0	86.2	-19.9 80.1 82.6	104	0.741	1.0 0.0	88.1	-17.6 83.5 85.4	102	0.8	1.0 0.0
105	103	107	0.699	1.0 0.0	85.3	-20.9 78.4 81.2	105	0.727	1.0 0.0	87.2	-18.8 81.8 84.0	103	0.783	1.0 0.0
106	104	109	0.685	1.0 0.0	84.3	-21.9 76.7 79.8	106	0.713	1.0 0.0	86.2	-19.9 80.1 82.6	104	0.767	1.0 0.0
107	105	110	0.671	1.0 0.0	83.4	-22.8 74.9 78.4	107	0.699	1.0 0.0	85.3	-20.9 78.4 81.2	105	0.75	1.0 0.0
108	106	111	0.657	1.0 0.0	82.5	-23.7 73.2 77.0	108	0.685	1.0 0.0	84.3	-21.9 76.7 79.8	106	0.733	1.0 0.0
109	107	112	0.643	1.0 0.0	81.5	-24.5 71.4 75.6	109	0.671	1.0 0.0	83.4	-22.8 74.9 78.4	107	0.717	1.0 0.0
110	108	113	0.63	1.0 0.0	80.6	-25.3 69.7 74.2	110	0.657	1.0 0.0	82.5	-23.7 73.2 77.0	108	0.7	1.0 0.0
111	109	114	0.615	1.0 0.0	79.7	-26.2 68.4 73.3	111	0.643	1.0 0.0	81.5	-24.5 71.4 75.6	109	0.683	1.0 0.0
112	110	116	0.601	1.0 0.0	79.0	-27.1 67.4 72.6	112	0.63	1.0 0.0	80.6	-25.3 69.7 74.2	110	0.667	1.0 0.0
113	111	117	0.586	1.0 0.0	78.2	-28.0 66.3 72.0	113	0.615	1.0 0.0	79.7	-26.2 68.4 73.3	111	0.65	1.0 0.0
114	112	118	0.572	1.0 0.0	77.4	-28.9 65.2 71.4	114	0.601	1.0 0.0	79.0	-27.1 67.4 72.6	112	0.633	1.0 0.0
115	113	119	0.558	1.0 0.0	76.6	-29.8 64.1 70.8	115	0.586	1.0 0.0	78.2	-28.0 66.3 72.0	113	0.617	1.0 0.0
116	114	120	0.543	1.0 0.0	75.9	-30.6 63.0 70.1	116	0.572	1.0 0.0	77.4	-28.9 65.2 71.4	114	0.6	1.0 0.0
117	115	121	0.529	1.0 0.0	75.1	-31.4 61.9 69.5	117	0.558	1.0 0.0	76.6	-29.8 64.1 70.8	115	0.583	1.0 0.0
118	116	123	0.514	1.0 0.0	74.3	-32.2 60.8 68.9	118	0.543	1.0 0.0	75.9	-30.6 63.0 70.1	116	0.567	1.0 0.0
119	117	124	0.5	1.0 0.0	73.6	-33.0 59.7 68.2	119	0.529	1.0 0.0	75.1	-31.4 61.9 69.5	117	0.55	1.0 0.0
120	118	125	0.484	1.0 0.0	72.9	-33.8 58.8 67.9	120	0.514	1.0 0.0	74.3	-32.2 60.8 68.9	118	0.533	1.0 0.0
121	119	126	0.468	1.0 0.0	72.3	-34.7 57.9 67.5	121	0.5	1.0 0.0	73.6	-33.0 59.7 68.2	119	0.517	1.0 0.0
122	120	127	0.452	1.0 0.0	71.6	-35.5 56.9 67.1	122	0.484	1.0 0.0	72.9	-33.8 58.8 67.9	120	0.5	1.0 0.0

OE320-7N, Page of series 14/20, RX0, D50, XYZnw=1.8, 1.8, 1.4, 89.1, 92.8, 74.4, LAB*nw=14.4, 0.5, 1.4, 97.1, -0.6, 1.9, not adapted

Output: laser printer HRS16_96; separation cmyn6*, D65 and D50, page 14/20

TUB-test chart OE32; 48 and 360 step hue circles, Page 14/20
Data of laser printer HRS16_96, separation cmyn6*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn6^*_d=f_6(rgb^*_d)$

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_d dd361Mi	LAB^*_d dd361Mix (x=LabCh)	rgb^*_s ds361Mi	LAB^*_s ds361Mix (x=LabCh)	rgb^*_e s50M	rgb^*_e de361Mi	LAB^*_e de361Mix (x=LabCh)	rgb^*_e e50M	rgb^*_d dd361Mi	rgb^*_s ds361Mi	rgb^*_e e50M
122	120	127	0.452 1.0 0.0	71.6 -35.5 56.9 67.1	0.484 1.0 0.0	72.9 -33.8 58.8 67.9	120 0.5 1.0 0.0	0.373 1.0 0.0	68.5 -39.2 52.2 65.4	127 0.5 1.0 0.0			
123	121	128	0.436 1.0 0.0	71.0 -36.3 56.0 66.8	0.468 1.0 0.0	72.3 -34.7 57.9 67.5	121 0.483 1.0 0.0	0.362 1.0 0.0	68.0 -40.1 51.5 65.4	128 0.483 1.0 0.0			
124	122	130	0.42 1.0 0.0	70.4 -37.0 55.1 66.4	0.452 1.0 0.0	71.6 -35.5 56.9 67.1	122 0.467 1.0 0.0	0.338 1.0 0.0	67.0 -41.9 50.0 65.3	130 0.467 1.0 0.0			
125	123	131	0.405 1.0 0.0	69.7 -37.8 54.1 66.1	0.436 1.0 0.0	71.0 -36.3 56.0 66.8	123 0.45 1.0 0.0	0.327 1.0 0.0	66.5 -42.8 49.3 65.3	131 0.45 1.0 0.0			
126	124	132	0.389 1.0 0.0	69.1 -38.5 53.1 65.7	0.42 1.0 0.0	70.4 -37.0 55.1 66.4	124 0.433 1.0 0.0	0.315 1.0 0.0	66.0 -43.6 48.5 65.3	132 0.433 1.0 0.0			
127	125	133	0.373 1.0 0.0	68.5 -39.2 52.2 65.4	0.405 1.0 0.0	69.7 -37.8 54.1 66.1	125 0.417 1.0 0.0	0.303 1.0 0.0	65.5 -44.4 47.8 65.3	133 0.417 1.0 0.0			
128	126	134	0.362 1.0 0.0	68.0 -40.1 51.5 65.4	0.389 1.0 0.0	69.1 -38.5 53.1 65.7	126 0.4 1.0 0.0	0.292 1.0 0.0	65.0 -45.2 47.0 65.3	134 0.4 1.0 0.0			
129	127	135	0.35 1.0 0.0	67.5 -41.0 50.8 65.3	0.373 1.0 0.0	68.5 -39.2 52.2 65.4	127 0.383 1.0 0.0	0.28 1.0 0.0	64.5 -46.0 46.1 65.3	135 0.383 1.0 0.0			
130	128	137	0.338 1.0 0.0	67.0 -41.9 50.0 65.3	0.362 1.0 0.0	68.0 -40.1 51.5 65.4	128 0.367 1.0 0.0	0.257 1.0 0.0	63.5 -47.6 44.5 65.2	137 0.367 1.0 0.0			
131	129	138	0.327 1.0 0.0	66.5 -42.8 49.3 65.3	0.35 1.0 0.0	67.5 -41.0 50.8 65.3	129 0.35 1.0 0.0	0.244 1.0 0.0	63.0 -48.4 43.6 65.2	138 0.35 1.0 0.0			
132	130	139	0.315 1.0 0.0	66.0 -43.6 48.5 65.3	0.338 1.0 0.0	67.0 -41.9 50.0 65.3	130 0.333 1.0 0.0	0.23 1.0 0.0	62.6 -49.1 42.8 65.2	139 0.333 1.0 0.0			
133	131	140	0.303 1.0 0.0	65.5 -44.4 47.8 65.3	0.327 1.0 0.0	66.5 -42.8 49.3 65.3	131 0.317 1.0 0.0	0.215 1.0 0.0	62.1 -49.8 41.9 65.1	140 0.317 1.0 0.0			
134	132	141	0.292 1.0 0.0	65.0 -45.2 47.0 65.3	0.315 1.0 0.0	66.0 -43.6 48.5 65.3	132 0.3 1.0 0.0	0.201 1.0 0.0	61.7 -50.5 41.0 65.1	141 0.3 1.0 0.0			
135	133	142	0.28 1.0 0.0	64.5 -46.0 46.1 65.3	0.303 1.0 0.0	65.5 -44.4 47.8 65.3	133 0.283 1.0 0.0	0.187 1.0 0.0	61.3 -51.2 40.0 65.0	142 0.283 1.0 0.0			
136	134	144	0.268 1.0 0.0	64.0 -46.8 45.3 65.2	0.292 1.0 0.0	65.0 -45.2 47.0 65.3	134 0.267 1.0 0.0	0.158 1.0 0.0	60.4 -52.5 38.2 65.0	144 0.267 1.0 0.0			
137	135	145	0.257 1.0 0.0	63.5 -47.6 44.5 65.2	0.28 1.0 0.0	64.5 -46.0 46.1 65.3	135 0.25 1.0 0.0	0.144 1.0 0.0	59.9 -53.1 37.2 64.9	145 0.25 1.0 0.0			
138	136	146	0.244 1.0 0.0	63.0 -48.4 43.6 65.2	0.268 1.0 0.0	64.0 -46.8 45.3 65.2	136 0.233 1.0 0.0	0.129 1.0 0.0	59.5 -53.7 36.3 64.9	146 0.233 1.0 0.0			
139	137	147	0.23 1.0 0.0	62.6 -49.1 42.8 65.2	0.257 1.0 0.0	63.5 -47.6 44.5 65.2	137 0.217 1.0 0.0	0.112 1.0 0.0	59.0 -54.6 35.5 65.2	147 0.217 1.0 0.0			
140	138	148	0.215 1.0 0.0	62.1 -49.8 41.9 65.1	0.244 1.0 0.0	63.0 -48.4 43.6 65.2	138 0.2 1.0 0.0	0.093 1.0 0.0	58.5 -55.6 34.8 65.7	148 0.2 1.0 0.0			
141	139	149	0.201 1.0 0.0	61.7 -50.5 41.0 65.1	0.23 1.0 0.0	62.6 -49.1 42.8 65.2	139 0.183 1.0 0.0	0.074 1.0 0.0	58.0 -56.6 34.1 66.2	149 0.183 1.0 0.0			
142	140	151	0.187 1.0 0.0	61.3 -51.2 40.0 65.0	0.215 1.0 0.0	62.1 -49.8 41.9 65.1	140 0.167 1.0 0.0	0.036 1.0 0.0	56.9 -58.7 32.6 67.2	151 0.167 1.0 0.0			
143	141	152	0.172 1.0 0.0	60.8 -51.8 39.1 65.0	0.201 1.0 0.0	61.7 -50.5 41.0 65.1	141 0.15 1.0 0.0	0.017 1.0 0.0	56.4 -59.7 31.8 67.7	152 0.15 1.0 0.0			
144	142	153	0.158 1.0 0.0	60.4 -52.5 38.2 65.0	0.187 1.0 0.0	61.3 -51.2 40.0 65.0	142 0.133 1.0 0.0	0.0 1.0 0.002	55.9 -60.5 30.9 68.1	153 0.133 1.0 0.0			
145	143	154	0.144 1.0 0.0	59.9 -53.1 37.2 64.9	0.172 1.0 0.0	60.8 -51.8 39.1 65.0	143 0.117 1.0 0.0	0.0 1.0 0.019	55.8 -60.5 29.5 67.4	154 0.117 1.0 0.0			
146	144	155	0.129 1.0 0.0	59.5 -53.7 36.3 64.9	0.158 1.0 0.0	60.4 -52.5 38.2 65.0	144 0.1 1.0 0.0	0.0 1.0 0.036	55.8 -60.4 28.2 66.7	155 0.1 1.0 0.0			
147	145	156	0.112 1.0 0.0	59.0 -54.6 35.5 65.2	0.144 1.0 0.0	59.9 -53.1 37.2 64.9	145 0.083 1.0 0.0	0.0 1.0 0.053	55.7 -60.2 26.9 66.0	156 0.083 1.0 0.0			
148	146	158	0.093 1.0 0.0	58.5 -55.6 34.8 65.7	0.129 1.0 0.0	59.5 -53.7 36.3 64.9	146 0.067 1.0 0.0	0.0 1.0 0.087	55.6 -59.9 24.2 64.7	158 0.067 1.0 0.0			
149	147	159	0.074 1.0 0.0	58.0 -56.6 34.1 66.2	0.112 1.0 0.0	59.0 -54.6 35.5 65.2	147 0.05 1.0 0.0	0.0 1.0 0.104	55.5 -59.6 22.9 64.0	159 0.05 1.0 0.0			
150	148	160	0.055 1.0 0.0	57.4 -57.7 33.3 66.7	0.093 1.0 0.0	58.5 -55.6 34.8 65.7	148 0.033 1.0 0.0	0.0 1.0 0.121	55.4 -59.4 21.7 63.3	160 0.033 1.0 0.0			
151	149	161	0.036 1.0 0.0	56.9 -58.7 32.6 67.2	0.074 1.0 0.0	58.0 -56.6 34.1 66.2	149 0.017 1.0 0.0	0.0 1.0 0.136	55.4 -59.1 20.4 62.6	161 0.017 1.0 0.0			
152	150	162	0.017 1.0 0.0	56.4 -59.7 31.8 67.7	0.055 1.0 0.0	57.4 -57.7 33.3 66.7	150 0.0 1.0 0.0	0.0 1.0 0.15	55.4 -58.8 19.1 61.9	162 0.0 1.0 0.0			
153	151	163	0.0 1.0 0.002	55.9 -60.5 30.9 68.1	0.036 1.0 0.0	56.9 -58.7 32.6 67.2	151 0.0 1.0 0.017	0.0 1.0 0.164	55.5 -58.5 17.9 61.3	163 0.0 1.0 0.017			
154	152	164	0.0 1.0 0.019	55.8 -60.5 29.5 67.4	0.017 1.0 0.0	56.4 -59.7 31.8 67.7	152 0.0 1.0 0.033	0.0 1.0 0.178	55.5 -58.1 16.7 60.6	164 0.0 1.0 0.033			
155	153	165	0.0 1.0 0.036	55.8 -60.4 28.2 66.7	0.0 1.0 0.002	55.9 -60.5 30.9 68.1	153 0.0 1.0 0.05	0.0 1.0 0.191	55.5 -57.7 15.5 59.9	165 0.0 1.0 0.05			
156	154	166	0.0 1.0 0.053	55.7 -60.2 26.9 66.0	0.0 1.0 0.019	55.8 -60.5 29.5 67.4	154 0.0 1.0 0.067	0.0 1.0 0.205	55.5 -57.3 14.3 59.2	166 0.0 1.0 0.067			
157	155	167	0.0 1.0 0.07	55.6 -60.1 25.5 65.3	0.0 1.0 0.036	55.8 -60.4 28.2 66.7	155 0.0 1.0 0.083	0.0 1.0 0.219	55.6 -56.9 13.2 58.5	167 0.0 1.0 0.083			
158	156	168	0.0 1.0 0.087	55.6 -59.9 24.2 64.7	0.0 1.0 0.053	55.7 -60.2 26.9 66.0	156 0.0 1.0 0.1	0.0 1.0 0.233	55.6 -56.5 12.0 57.8	168 0.0 1.0 0.1			
159	157	169	0.0 1.0 0.104	55.5 -59.6 22.9 64.0	0.0 1.0 0.07	55.6 -60.1 25.5 65.3	157 0.0 1.0 0.117	0.0 1.0 0.247	55.6 -56.0 10.9 57.1	169 0.0 1.0 0.117			
160	158	170	0.0 1.0 0.121	55.4 -59.4 21.7 63.3	0.0 1.0 0.087	55.6 -59.9 24.2 64.7	158 0.0 1.0 0.133	0.0 1.0 0.261	55.6 -55.8 9.8 56.7	170 0.0 1.0 0.133			
161	159	170	0.0 1.0 0.136	55.4 -59.1 20.4 62.6	0.0 1.0 0.104	55.5 -59.6 22.9 64.0	159 0.0 1.0 0.15	0.0 1.0 0.261	55.6 -55.8 9.8 56.7	170 0.0 1.0 0.15			
162	160	171	0.0 1.0 0.15	55.4 -58.8 19.1 61.9	0.0 1.0 0.121	55.4 -59.4 21.7 63.3	160 0.0 1.0 0.167	0.0 1.0 0.275	55.7 -55.6 8.8 56.4	171 0.0 1.0 0.167			
163	161	172	0.0 1.0 0.164	55.5 -58.5 17.9 61.3	0.0 1.0 0.136	55.4 -59.1 20.4 62.6	161 0.0 1.0 0.183	0.0 1.0 0.289	55.7 -55.4 7.8 56.0	172 0.0 1.0 0.183			
164	162	173	0.0 1.0 0.178	55.5 -58.1 16.7 60.6	0.0 1.0 0.15	55.4 -58.8 19.1 61.9	162 0.0 1.0 0.2	0.0 1.0 0.303	55.7 -55.2 6.8 55.7	173 0.0 1.0 0.2			
165	163	174	0.0 1.0 0.191	55.5 -57.7 15.5 59.9	0.0 1.0 0.164	55.5 -58.5 17.9 61.3	163 0.0 1.0 0.217	0.0 1.0 0.316	55.7 -54.9 5.8 55.3	174 0.0 1.0 0.217			
166	164	175	0.0 1.0 0.205	55.5 -57.3 14.3 59.2	0.0 1.0 0.178	55.5 -58.1 16.7 60.6	164 0.0 1.0 0.233	0.0 1.0 0.33	55.8 -54.7 4.8 55.0	175 0.0 1.0 0.233			
167	165	176	0.0 1.0 0.219	55.6 -56.9 13.2 58.5	0.0 1.0 0.191	55.5 -57.7 15.5 59.9	165 0.0 1.0 0.25	0.0 1.0 0.344	55.8 -54.4 3.8 54.6	176 0.0 1.0 0.25			

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																							
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_d	$dd361Mi$	LAB^*_d	$dd361Mix$	$x=LabCh$	rgb^*_d	$ds361Mi$	LAB^*_d	$ds361Mix$	$x=LabCh$	rgb^*_s	$s50M$	rgb^*_d	$de361Mi$	LAB^*_d	$de361Mix$	$x=LabCh$	rgb^*_s	$e50M$	rgb^*_d	$de361Mi$
167	165	176	0.0	1.0	0.219	55.6	-56.9 13.2 58.5	167	0.0	1.0	0.191	55.5	-57.7 15.5 59.9	165	0.0	1.0	0.344	55.8	-54.4 3.8 54.6	176	0.0	1.0	0.25
168	166	177	0.0	1.0	0.233	55.6	-56.5 12.0 57.8	168	0.0	1.0	0.205	55.5	-57.3 14.3 59.2	166	0.0	1.0	0.358	55.8	-54.1 2.8 54.3	177	0.0	1.0	0.267
169	167	178	0.0	1.0	0.247	55.6	-56.0 10.9 57.1	169	0.0	1.0	0.219	55.6	-56.9 13.2 58.5	167	0.0	1.0	0.372	55.9	-53.8 1.9 53.9	178	0.0	1.0	0.283
170	168	179	0.0	1.0	0.261	55.6	-55.8 9.8 56.7	170	0.0	1.0	0.233	55.6	-56.5 12.0 57.8	168	0.0	1.0	0.385	55.9	-53.5 0.9 53.6	179	0.0	1.0	0.3
171	169	180	0.0	1.0	0.275	55.7	-55.6 8.8 56.4	171	0.0	1.0	0.247	55.6	-56.0 10.9 57.1	169	0.0	1.0	0.399	55.9	-53.3 0.0 53.4	180	0.0	1.0	0.317
172	170	180	0.0	1.0	0.289	55.7	-55.4 7.8 56.0	172	0.0	1.0	0.261	55.6	-55.8 9.8 56.7	170	0.0	1.0	0.399	55.9	-53.3 0.0 53.4	180	0.0	1.0	0.333
173	171	181	0.0	1.0	0.303	55.7	-55.2 6.8 55.7	173	0.0	1.0	0.275	55.7	-55.6 8.8 56.4	171	0.0	1.0	0.412	55.9	-53.0 -0.8 53.1	181	0.0	1.0	0.35
174	172	182	0.0	1.0	0.316	55.7	-54.9 5.8 55.3	174	0.0	1.0	0.289	55.7	-55.4 7.8 56.0	172	0.0	1.0	0.425	56.0	-52.6 -1.7 52.8	182	0.0	1.0	0.367
175	173	183	0.0	1.0	0.33	55.8	-54.7 4.8 55.0	175	0.0	1.0	0.303	55.7	-55.2 6.8 55.7	173	0.0	1.0	0.439	56.0	-52.3 -2.6 52.5	183	0.0	1.0	0.383
176	174	184	0.0	1.0	0.344	55.8	-54.4 3.8 54.6	176	0.0	1.0	0.316	55.7	-54.9 5.8 55.3	174	0.0	1.0	0.452	56.0	-52.0 -3.5 52.2	184	0.0	1.0	0.4
177	175	185	0.0	1.0	0.358	55.8	-54.1 2.8 54.3	177	0.0	1.0	0.33	55.8	-54.7 4.8 55.0	175	0.0	1.0	0.466	56.0	-51.6 -4.4 51.9	185	0.0	1.0	0.417
178	176	186	0.0	1.0	0.372	55.9	-53.8 1.9 53.9	178	0.0	1.0	0.344	55.8	-54.4 3.8 54.6	176	0.0	1.0	0.479	56.1	-51.2 -5.3 51.6	186	0.0	1.0	0.433
179	177	187	0.0	1.0	0.385	55.9	-53.5 0.9 53.6	179	0.0	1.0	0.358	55.8	-54.1 2.8 54.3	177	0.0	1.0	0.493	56.1	-50.9 -6.2 51.3	187	0.0	1.0	0.45
180	178	188	0.0	1.0	0.399	55.9	-53.3 0.0 53.4	180	0.0	1.0	0.372	55.9	-53.8 1.9 53.9	178	0.0	1.0	0.506	56.1	-50.5 -7.0 51.1	188	0.0	1.0	0.467
181	179	189	0.0	1.0	0.412	55.9	-53.0 -0.8 53.1	181	0.0	1.0	0.385	55.9	-53.5 0.9 53.6	179	0.0	1.0	0.519	56.1	-50.2 -7.9 51.0	189	0.0	1.0	0.483
182	180	190	0.0	1.0	0.425	56.0	-52.6 -1.7 52.8	182	0.0	1.0	0.399	55.9	-53.3 0.0 53.4	180	0.0	1.0	0.532	56.1	-50.0 -8.7 50.8	190	0.0	1.0	0.5
183	181	191	0.0	1.0	0.439	56.0	-52.3 -2.6 52.5	183	0.0	1.0	0.412	55.9	-53.0 -0.8 53.1	181	0.0	1.0	0.544	56.2	-49.7 -9.6 50.7	191	0.0	1.0	0.517
184	182	191	0.0	1.0	0.452	56.0	-52.0 -3.5 52.2	184	0.0	1.0	0.425	56.0	-52.6 -1.7 52.8	182	0.0	1.0	0.544	56.2	-49.7 -9.6 50.7	191	0.0	1.0	0.533
185	183	192	0.0	1.0	0.466	56.0	-51.6 -4.4 51.9	185	0.0	1.0	0.439	56.0	-52.3 -2.6 52.5	183	0.0	1.0	0.557	56.2	-49.3 -10.4 50.5	192	0.0	1.0	0.55
186	184	193	0.0	1.0	0.479	56.1	-51.2 -5.3 51.6	186	0.0	1.0	0.452	56.0	-52.0 -3.5 52.2	184	0.0	1.0	0.57	56.2	-49.0 -11.2 50.4	193	0.0	1.0	0.567
187	185	194	0.0	1.0	0.493	56.1	-50.9 -6.2 51.3	187	0.0	1.0	0.466	56.0	-51.6 -4.4 51.9	185	0.0	1.0	0.583	56.2	-48.7 -12.1 50.3	194	0.0	1.0	0.583
188	186	195	0.0	1.0	0.506	56.1	-50.5 -7.0 51.1	188	0.0	1.0	0.479	56.1	-51.2 -5.3 51.6	186	0.0	1.0	0.596	56.2	-48.3 -12.9 50.1	195	0.0	1.0	0.6
189	187	196	0.0	1.0	0.519	56.1	-50.2 -7.9 51.0	189	0.0	1.0	0.493	56.1	-50.9 -6.2 51.3	187	0.0	1.0	0.609	56.2	-47.9 -13.7 50.0	196	0.0	1.0	0.617
190	188	197	0.0	1.0	0.532	56.1	-50.0 -8.7 50.8	190	0.0	1.0	0.506	56.1	-50.5 -7.0 51.1	188	0.0	1.0	0.622	56.2	-47.6 -14.5 49.8	197	0.0	1.0	0.633
191	189	198	0.0	1.0	0.544	56.2	-49.7 -9.6 50.7	191	0.0	1.0	0.519	56.1	-50.2 -7.9 51.0	189	0.0	1.0	0.637	56.2	-47.3 -15.3 49.8	198	0.0	1.0	0.65
192	190	199	0.0	1.0	0.557	56.2	-49.3 -10.4 50.5	192	0.0	1.0	0.532	56.1	-50.0 -8.7 50.8	190	0.0	1.0	0.652	56.1	-47.1 -16.1 49.9	199	0.0	1.0	0.667
193	191	200	0.0	1.0	0.57	56.2	-49.0 -11.2 50.4	193	0.0	1.0	0.544	56.2	-49.7 -9.6 50.7	191	0.0	1.0	0.667	56.0	-46.8 -17.0 49.9	200	0.0	1.0	0.683
194	192	201	0.0	1.0	0.583	56.2	-48.7 -12.1 50.3	194	0.0	1.0	0.557	56.2	-49.3 -10.4 50.5	192	0.0	1.0	0.683	56.0	-46.6 -17.8 50.0	201	0.0	1.0	0.7
195	193	201	0.0	1.0	0.596	56.2	-48.3 -12.9 50.1	195	0.0	1.0	0.57	56.2	-49.0 -11.2 50.4	193	0.0	1.0	0.683	56.0	-46.6 -17.8 50.0	201	0.0	1.0	0.717
196	194	202	0.0	1.0	0.609	56.2	-47.9 -13.7 50.0	196	0.0	1.0	0.583	56.2	-48.7 -12.1 50.3	194	0.0	1.0	0.698	55.9	-46.3 -18.6 50.0	202	0.0	1.0	0.733
197	195	203	0.0	1.0	0.622	56.2	-47.6 -14.5 49.8	197	0.0	1.0	0.596	56.2	-48.3 -12.9 50.1	195	0.0	1.0	0.714	55.8	-46.0 -19.5 50.1	203	0.0	1.0	0.75
198	196	204	0.0	1.0	0.637	56.2	-47.3 -15.3 49.8	198	0.0	1.0	0.609	56.2	-47.9 -13.7 50.0	196	0.0	1.0	0.729	55.8	-45.7 -20.3 50.1	204	0.0	1.0	0.767
199	197	205	0.0	1.0	0.652	56.1	-47.1 -16.1 49.9	199	0.0	1.0	0.622	56.2	-47.6 -14.5 49.8	197	0.0	1.0	0.745	55.7	-45.3 -21.1 50.1	205	0.0	1.0	0.783
200	198	206	0.0	1.0	0.667	56.0	-46.8 -17.0 49.9	200	0.0	1.0	0.637	56.2	-47.3 -15.3 49.8	198	0.0	1.0	0.76	55.5	-45.2 -22.0 50.4	206	0.0	1.0	0.8
201	199	207	0.0	1.0	0.683	56.0	-46.6 -17.8 50.0	201	0.0	1.0	0.652	56.1	-47.1 -16.1 49.9	199	0.0	1.0	0.775	55.3	-45.1 -22.9 50.8	207	0.0	1.0	0.817
202	200	208	0.0	1.0	0.698	55.9	-46.3 -18.6 50.0	202	0.0	1.0	0.667	56.0	-46.8 -17.0 49.9	200	0.0	1.0	0.79	55.1	-45.1 -23.9 51.1	208	0.0	1.0	0.833
203	201	209	0.0	1.0	0.714	55.8	-46.0 -19.5 50.1	203	0.0	1.0	0.683	56.0	-46.6 -17.8 50.0	201	0.0	1.0	0.805	54.8	-45.0 -24.9 51.5	209	0.0	1.0	0.85
204	202	210	0.0	1.0	0.729	55.8	-45.7 -20.3 50.1	204	0.0	1.0	0.698	55.9	-46.3 -18.6 50.0	202	0.0	1.0	0.82	54.6	-44.8 -25.8 51.9	210	0.0	1.0	0.867
205	203	211	0.0	1.0	0.745	55.7	-45.3 -21.1 50.1	205	0.0	1.0	0.714	55.8	-46.0 -19.5 50.1	203	0.0	1.0	0.835	54.4	-44.7 -26.8 52.2	211	0.0	1.0	0.883
206	204	212	0.0	1.0	0.76	55.5	-45.2 -22.0 50.4	206	0.0	1.0	0.729	55.8	-45.7 -20.3 50.1	204	0.0	1.0	0.85	54.2	-44.5 -27.8 52.6	212	0.0	1.0	0.9
207	205	212	0.0	1.0	0.775	55.3	-45.1 -22.9 50.8	207	0.0	1.0	0.745	55.7	-45.3 -21.1 50.1	205	0.0	1.0	0.85	54.2	-44.5 -27.8 52.6	212	0.0	1.0	0.917
208	206	213	0.0	1.0	0.79	55.1	-45.1 -23.9 51.1	208	0.0	1.0	0.76	55.5	-45.2 -22.0 50.4	206	0.0	1.0	0.865	54.0	-44.3 -28.8 53.0	213	0.0	1.0	0.933
209	207	214	0.0	1.0	0.805	54.8	-45.0 -24.9 51.5	209	0.0	1.0	0.775	55.3	-45.1 -22.9 50.8	207	0.0	1.0	0.879	53.7	-44.2 -29.8 53.4	214	0.0	1.0	0.95
210	208	215	0.0	1.0	0.82	54.6	-44.8 -25.8 51.9	210	0.0	1.0	0.79	55.1	-45.1 -23.9 51.1	208	0.0	1.0	0.889	53.4	-44.1 -30.8 53.9	215	0.0	1.0	0.967
211	209	216	0.0	1.0	0.835	54.4	-44.7 -26.8 52.2	211	0.0	1.0	0.805	54.8	-45.0 -24.9 51.5	209	0.0	1.0	0.899	53.1	-43.9 -31.9 54.4	216	0.0	1.0	0.983
212	210	217	0.0	1.0	0.85	54.2	-44.5 -27.8 52.6	212	0.0	1.0	0.82	54.6	-44.8 -25.8 51.9	210	0.0	1.0	0.909	52.8	-43.7 -32.9 54.9	217	0.0	1.0	1.0C _s

OE320-7N, Page of series 16/20, RX0, D50, XYZnw=1.8, 1.8, 1.4, 89.1, 92.8, 74.4, LAB*_{nw}=14.4, 0.5, 1.4, 97.1, -0.6, 1.9, not adapted

Output: laser printer HRS16_96; separation cmyn6*, D65 and D50, page 16/20

TUB-test chart OE32; 48 and 360 step hue circles, Page 16/20
Data of laser printer HRS16_96, separation cmyn6*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn6^*_d = f_6(rgb^*_d)$

TUB registration: 20110301-OE32/OE3

See original or copy: <http://web.me.com/klaus.richter/OE32/OE32L0NP.PDF> / .PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation $cmyn^*$, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d : $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

h _{ab} , d _{ab} , h _{ab,s}			rgb* _d dd361Mi								LAB* _d dd361Mix (x=LabCh)								rgb* _s ds361Mi				LAB* _s ds361Mix (x=LabCh)				rgb* _s ds50M				rgb* _d de361Mi				LAB* _d de361Mix (x=LabCh)				rgb* _s e50M				rgb* _d de50M				LAB* _d de50M										
h _{ab}	d _{ab}	h _{ab,s}	0.0	1.0	0.85	54.2	-44.5	-27.8	52.6	212	0.0	1.0	0.82	54.6	-44.8	-25.8	51.9	210	0.0	1.0	1.0C _s	0.0	1.0	0.909	52.8	-43.7	-32.9	54.9	217	0.0	1.0	1.0C _e	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0			
212	210	217	0.0	1.0	0.85	54.2	-44.5	-27.8	52.6	212	0.0	1.0	0.835	54.4	-44.7	-26.8	52.2	211	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0			
213	211	218	0.0	1.0	0.865	54.0	-44.3	-28.8	53.0	213	0.0	1.0	0.835	54.4	-44.7	-26.8	52.2	211	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.983	1.0			
214	212	219	0.0	1.0	0.879	53.7	-44.2	-29.8	53.4	214	0.0	1.0	0.85	54.2	-44.5	-27.8	52.6	212	0.0	0.967	1.0	0.0	1.0	0.93	52.2	-43.3	-35.1	55.9	219	0.0	0.967	1.0	0.0	1.0	0.93	52.2	-43.3	-35.1	55.9	219	0.0	0.967	1.0	0.0	1.0	0.93	52.2	-43.3	-35.1	55.9	219	0.0	0.967	1.0			
215	213	220	0.0	1.0	0.889	53.4	-44.1	-30.8	53.9	215	0.0	1.0	0.865	54.0	-44.3	-28.8	53.0	213	0.0	0.95	1.0	0.0	1.0	0.94	51.9	-43.1	-36.1	56.4	220	0.0	0.95	1.0	0.0	1.0	0.94	51.9	-43.1	-36.1	56.4	220	0.0	0.95	1.0	0.0	1.0	0.94	51.9	-43.1	-36.1	56.4	220	0.0	0.95	1.0			
216	214	221	0.0	1.0	0.899	53.1	-43.9	-31.9	54.4	216	0.0	1.0	0.879	53.7	-44.2	-29.8	53.4	214	0.0	0.933	1.0	0.0	1.0	0.95	51.6	-42.8	-37.2	56.9	221	0.0	0.933	1.0	0.0	1.0	0.95	51.6	-42.8	-37.2	56.9	221	0.0	0.933	1.0	0.0	1.0	0.95	51.6	-42.8	-37.2	56.9	221	0.0	0.933	1.0			
217	215	222	0.0	1.0	0.909	52.8	-43.7	-32.9	54.9	217	0.0	1.0	0.889	53.4	-44.1	-30.8	53.9	215	0.0	0.917	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.917	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.917	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.917	1.0			
218	216	222	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	1.0	0.899	53.1	-43.9	-31.9	54.4	216	0.0	0.9	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.9	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.9	1.0	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.9	1.0			
219	217	223	0.0	1.0	0.93	52.2	-43.3	-35.1	55.9	219	0.0	1.0	0.909	52.8	-43.7	-32.9	54.9	217	0.0	0.883	1.0	0.0	1.0	0.971	51.0	-42.2	-39.4	57.9	223	0.0	0.883	1.0	0.0	1.0	0.971	51.0	-42.2	-39.4	57.9	223	0.0	0.883	1.0	0.0	1.0	0.971	51.0	-42.2	-39.4	57.9	223	0.0	0.883	1.0			
220	218	224	0.0	1.0	0.94	51.9	-43.1	-36.1	56.4	220	0.0	1.0	0.92	52.5	-43.6	-34.0	55.4	218	0.0	0.867	1.0	0.0	1.0	0.981	50.7	-41.9	-40.5	58.4	224	0.0	0.867	1.0	0.0	1.0	0.981	50.7	-41.9	-40.5	58.4	224	0.0	0.867	1.0	0.0	1.0	0.981	50.7	-41.9	-40.5	58.4	224	0.0	0.867	1.0			
221	219	225	0.0	1.0	0.95	51.6	-42.8	-37.2	56.9	221	0.0	1.0	0.93	52.2	-43.3	-35.1	55.9	219	0.0	0.85	1.0	0.0	1.0	0.991	50.4	-41.5	-41.5	58.9	225	0.0	0.85	1.0	0.0	1.0	0.991	50.4	-41.5	-41.5	58.9	225	0.0	0.85	1.0	0.0	1.0	0.991	50.4	-41.5	-41.5	58.9	225	0.0	0.85	1.0			
222	220	226	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	1.0	0.94	51.9	-43.1	-36.1	56.4	220	0.0	0.833	1.0	0.0	1.0	0.993	1.0	50.1	-41.1	-42.6	59.3	226	0.0	0.833	1.0	0.0	1.0	0.993	1.0	50.1	-41.1	-42.6	59.3	226	0.0	0.833	1.0	0.0	1.0	0.993	1.0	50.1	-41.1	-42.6	59.3	226	0.0	0.833	1.0
223	221	227	0.0	1.0	0.971	51.0	-42.2	-39.4	57.9	223	0.0	1.0	0.95	51.6	-42.8	-37.2	56.9	221	0.0	0.817	1.0	0.0	1.0	0.944	1.0	50.0	-40.6	-43.5	59.6	227	0.0	0.817	1.0	0.0	1.0	0.944	1.0	50.0	-40.6	-43.5	59.6	227	0.0	0.817	1.0	0.0	1.0	0.944	1.0	50.0	-40.6	-43.5	59.6	227	0.0	0.817	1.0
224	222	228	0.0	1.0	0.981	50.7	-41.9	-40.5	58.4	224	0.0	1.0	0.961	51.3	-42.5	-38.3	57.4	222	0.0	0.8	1.0	0.0	1.0	0.895	1.0	49.8	-40.0	-44.5	60.0	228	0.0	0.8	1.0	0.0	1.0	0.895	1.0	49.8	-40.0	-44.5	60.0	228	0.0	0.8	1.0	0.0	1.0	0.895	1.0	49.8	-40.0	-44.5	60.0	228	0.0	0.8	1.0
225	223	229	0.0	1.0	0.991	50.4	-41.5	-41.5	58.9	225C _d	0.0	1.0	0.971	51.0	-42.2	-39.4	57.9	223	0.0	0.783	1.0	0.0	1.0	0.859	1.0	49.7	-39.4	-44.5	60.2	229	0.0	0.783	1.0	0.0	1.0	0.859	1.0	49.7	-39.4	-44.5	60.2	229	0.0	0.783	1.0	0.0	1.0	0.859	1.0	49.7	-39.4	-44.5	60.2	229	0.0	0.783	1.0
226	224	230	0.0	0.993	1.0	50.1	-41.1	-42.6	59.3	226	0.0	1.0	0.981	50.7	-41.9	-40.5	58.4	224	0.0	0.767	1.0	0.0	1.0	0.833	1.0	49.7	-38.7	-46.2	60.4	230	0.0	0.767	1.0	0.0	1.0	0.833	1.0	49.7	-38.7	-46.2	60.4	230	0.0	0.767	1.0	0.0	1.0	0.833	1.0	49.7	-38.7	-46.2	60.4	230	0.0	0.767	1.0
227	225	231	0.0	0.944	1.0	50.0	-40.6	-43.5	59.6	227	0.0	1.0	0.991	50.4	-41.5	-41.5	58.9	225	0.0	0.75	1.0	0.0	1.0	0.806	1.0	49.7	-38.0	-47.0	60.6	231	0.0	0.75	1.0	0.0	1.0	0.806	1.0	49.7	-38.0	-47.0	60.6	231	0.0	0.75	1.0	0.0	1.0	0.806	1.0	49.7	-38.0	-47.0	60.6	231	0.0	0.75	1.0
228	226	232	0.0	0.895	1.0	49.8	-40.0	-44.5	60.0	228	0.0	0.993	1.0	50.1	-41.1	-42.6	59.3	226	0.0	0.733	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.733	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.733	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.733	1.0
229	227	232	0.0	0.859	1.0	49.7	-39.4	-45.3	60.2	229	0.0	0.944	1.0	50.0	-40.6	-43.5	59.6	227	0.0	0.717	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.717	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.717	1.0	0.0	1.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.717	1.0
230	228	233	0.0	0.833	1.0	49.7	-38.7	-46.2	60.4	230	0.0	0.895	1.0	49.8	-40.0	-44.5	60.0	228	0.0	0.7	1.0	0.0	1.0	0.752	1.0	49.7	-36.6	-48.6	61.0	233	0.0	0.7	1.0	0.0	1.0	0.752	1.0	49.7	-36.6	-48.6	61.0	233	0.0	0.7	1.0	0.0	1.0	0.752	1.0	49.7	-36.6	-48.6	61.0	233	0.0	0.7	1.0
231	229	234	0.0	0.806	1.0	49.7	-38.0	-47.0	60.6	231	0.0	0.859	1.0	49.7	-39.4	-45.3	60.2	229	0.0	0.683	1.0	0.0	1.0	0.734	1.0	49.4	-35.6	-49.1	60.8	234	0.0	0.683	1.0	0.0	1.0	0.734	1.0	49.4	-35.6	-49.1	60.8	234	0.0	0.683	1.0	0.0	1.0	0.734	1.0	49.4	-35.6	-49.1	60.8	234	0.0	0.683	1.0
232	230	235	0.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.833	1.0	49.7	-38.7	-46.2	60.4	230	0.0	0.667	1.0	0.0	1.0	0.716	1.0	49.0	-34.6	-49.5	60.6	235	0.0	0.667	1.0	0.0	1.0	0.716	1.0	49.0	-34.6	-49.5	60.6	235	0.0	0.667	1.0	0.0	1.0	0.716	1.0	49.0	-34.6	-49.5	60.6	235	0.0	0.667	1.0
233	231	236	0.0	0.752	1.0	49.7	-36.6	-48.6	61.0	233	0.0	0.806	1.0	49.7	-38.0	-47.0	60.6	231	0.0	0.65	1.0	0.0	1.0	0.699	1.0	48.6	-33.6	-49.9	60.3	236	0.0	0.65	1.0	0.0	1.0	0.699	1.0	48.6	-33.6	-49.9	60.3	236	0.0	0.65	1.0	0.0	1.0	0.699	1.0	48.6	-33.6	-49.9	60.3	236	0.0	0.65	1.0
234	232	237	0.0	0.734	1.0	49.4	-35.6	-49.1	60.8	234	0.0	0.779	1.0	49.7	-37.3	-47.8	60.8	232	0.0	0.633	1.0	0.0	1.0	0.681	1.0	48.2	-32.6	-50.3	60.1	237	0.0	0.633	1.0	0.0	1.0	0.681	1.0	48.2	-32.6	-50.3	60.1	237	0.0	0.633	1.0	0.0	1.0	0.681	1.0	48.2	-32.6	-50.3	60.1	237	0.0	0.633	1.0
235	233	238	0.0	0.716	1.0	49.0	-34.6	-49.5	60.6	235	0.0	0.752	1.0	49.7	-36.6	-48.6	61.0	233	0.0	0.617	1.0	0.0	1.0	0.664	1.0	47.8	-31.6	-50.7	59.9	238	0.0	0.617																									

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix}(x=LabCh)$	rgb^*_{s50M}	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix}(x=LabCh)$	rgb^*_{e50M}	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}	
257	255	258	0.0	0.363 1.0	37.4	-11.7 -50.8 52.2	257	0.0	0.351 1.0	36.9	-10.7 -50.8 52.1	258	0.0	0.25 1.0
258	256	259	0.0	0.351 1.0	36.9	-10.7 -50.8 52.1	258	0.0	0.339 1.0	36.5	-9.8 -50.8 51.9	259	0.0	0.233 1.0
259	257	260	0.0	0.339 1.0	36.5	-9.8 -50.8 51.9	259	0.0	0.326 1.0	36.0	-8.9 -50.8 51.7	260	0.0	0.217 1.0
260	258	261	0.0	0.326 1.0	36.0	-8.9 -50.8 51.7	260	0.0	0.314 1.0	35.5	-8.0 -50.8 51.6	261	0.0	0.2 1.0
261	259	262	0.0	0.314 1.0	35.5	-8.0 -50.8 51.6	261	0.0	0.301 1.0	35.1	-7.1 -50.8 51.4	262	0.0	0.183 1.0
262	260	263	0.0	0.301 1.0	35.1	-7.1 -50.8 51.4	262	0.0	0.289 1.0	34.6	-6.1 -50.7 51.2	263	0.0	0.167 1.0
263	261	264	0.0	0.289 1.0	34.6	-6.1 -50.7 51.2	263	0.0	0.277 1.0	34.2	-5.2 -50.7 51.0	264	0.0	0.15 1.0
264	262	264	0.0	0.277 1.0	34.2	-5.2 -50.7 51.0	264	0.0	0.277 1.0	34.2	-5.2 -50.7 51.0	264	0.0	0.133 1.0
265	263	265	0.0	0.264 1.0	33.7	-4.3 -50.6 50.9	265	0.0	0.264 1.0	33.7	-4.3 -50.6 50.9	265	0.0	0.117 1.0
266	264	266	0.0	0.252 1.0	33.3	-3.4 -50.5 50.7	266	0.0	0.252 1.0	33.3	-3.4 -50.5 50.7	266	0.0	0.1 1.0
267	265	267	0.0	0.242 1.0	33.2	-2.5 -50.3 50.5	267	0.0	0.242 1.0	33.2	-2.5 -50.3 50.5	267	0.0	0.083 1.0
268	266	268	0.0	0.233 1.0	33.2	-1.7 -50.1 50.2	268	0.0	0.233 1.0	33.2	-1.7 -50.1 50.2	268	0.0	0.067 1.0
269	267	269	0.0	0.224 1.0	33.2	-0.8 -49.9 50.0	269	0.0	0.224 1.0	33.2	-0.8 -49.9 50.0	269	0.0	0.05 1.0
270	268	270	0.0	0.215 1.0	33.2	0.0 -49.6 49.7	270	0.0	0.215 1.0	33.2	0.0 -49.6 49.7	270	0.0	0.033 1.0
271	269	271	0.0	0.206 1.0	33.2	0.9 -49.4 49.5	271	0.0	0.206 1.0	33.2	0.9 -49.4 49.5	271	0.0	0.017 1.0
272	270	272	0.0	0.197 1.0	33.2	1.7 -49.1 49.3	272	0.0	0.197 1.0	33.2	1.7 -49.1 49.3	272	0.0	0.0 1.0
273	271	273	0.0	0.188 1.0	33.2	2.6 -48.9 49.0	273	0.0	0.188 1.0	33.2	2.6 -48.9 49.0	273	0.017	0.0 1.0
274	272	274	0.0	0.179 1.0	33.2	3.4 -48.6 48.8	274	0.0	0.179 1.0	33.2	3.4 -48.6 48.8	274	0.033	0.0 1.0
275	273	275	0.0	0.169 1.0	33.2	4.2 -48.3 48.5	275	0.0	0.169 1.0	33.2	4.2 -48.3 48.5	275	0.05 0.0	1.0
276	274	276	0.0	0.16 1.0	33.2	5.0 -47.9 48.3	276	0.0	0.16 1.0	33.2	5.0 -47.9 48.3	276	0.067 0.0	1.0
277	275	276	0.0	0.151 1.0	33.2	5.9 -47.6 48.1	277	0.0	0.16 1.0	33.2	5.0 -47.9 48.3	276	0.083 0.0	1.0
278	276	277	0.0	0.142 1.0	33.2	6.7 -47.3 47.8	278	0.0	0.151 1.0	33.2	5.9 -47.6 48.1	277	0.1 0.0	1.0
279	277	278	0.0	0.133 1.0	33.2	7.4 -46.9 47.6	279	0.0	0.142 1.0	33.2	6.7 -47.3 47.8	278	0.117 0.0	1.0
280	278	279	0.0	0.124 1.0	33.2	8.2 -46.6 47.4	280	0.0	0.133 1.0	33.2	7.4 -46.9 47.6	279	0.133 0.0	1.0
281	279	280	0.0	0.115 1.0	33.0	9.0 -46.4 47.4	281	0.0	0.124 1.0	33.2	8.2 -46.6 47.4	280	0.15 0.0	1.0
282	280	281	0.0	0.106 1.0	32.9	9.9 -46.3 47.4	282	0.0	0.115 1.0	33.0	9.0 -46.4 47.4	281	0.167 0.0	1.0
283	281	282	0.0	0.097 1.0	32.7	10.7 -46.1 47.4	283	0.0	0.106 1.0	32.9	9.9 -46.3 47.4	282	0.183 0.0	1.0
284	282	283	0.0	0.088 1.0	32.5	11.5 -45.9 47.4	284	0.0	0.097 1.0	32.7	10.7 -46.1 47.4	283	0.2 0.0	1.0
285	283	284	0.0	0.079 1.0	32.4	12.3 -45.7 47.4	285	0.0	0.088 1.0	32.5	11.5 -45.9 47.4	284	0.217 0.0	1.0
286	284	285	0.0	0.07 1.0	32.2	13.1 -45.5 47.4	286	0.0	0.079 1.0	32.4	12.3 -45.7 47.4	285	0.233 0.0	1.0
287	285	286	0.0	0.061 1.0	32.0	13.9 -45.3 47.5	287	0.0	0.07 1.0	32.2	13.1 -45.5 47.4	286	0.25 0.0	1.0
288	286	287	0.0	0.052 1.0	31.8	14.7 -45.0 47.5	288	0.0	0.061 1.0	32.0	13.9 -45.3 47.5	287	0.267 0.0	1.0
289	287	288	0.0	0.043 1.0	31.7	15.5 -44.8 47.5	289	0.0	0.052 1.0	31.8	14.7 -45.0 47.5	288	0.283 0.0	1.0
290	288	289	0.0	0.034 1.0	31.5	16.2 -44.5 47.5	290	0.0	0.043 1.0	31.7	15.5 -44.8 47.5	289	0.3 0.0	1.0
291	289	290	0.0	0.025 1.0	31.3	17.0 -44.2 47.5	291	0.0	0.034 1.0	31.5	16.2 -44.5 47.5	290	0.317 0.0	1.0
292	290	291	0.0	0.016 1.0	31.2	17.8 -44.0 47.5	292	0.0	0.025 1.0	31.3	17.0 -44.2 47.5	291	0.333 0.0	1.0
293	291	292	0.0	0.007 1.0	31.0	18.6 -43.7 47.5	293	0.0	0.016 1.0	31.2	17.8 -44.0 47.5	292	0.35 0.0	1.0
294	292	293	0.002	0.0 1.0	30.8	19.3 -43.3 47.6	294	0.0	0.007 1.0	31.0	18.6 -43.7 47.5	293	0.367 0.0	1.0
295	293	294	0.014	0.0 1.0	30.8	20.1 -43.1 47.7	295	0.0	0.002 0.0	30.8	19.3 -43.3 47.6	294	0.383 0.0	1.0
296	294	294	0.026	0.0 1.0	30.8	20.9 -42.8 47.8	296	0.002	0.0 1.0	30.8	19.3 -43.3 47.6	294	0.4 0.0	1.0
297	295	295	0.037	0.0 1.0	30.8	21.7 -42.5 47.9	297	0.014	0.0 1.0	30.8	20.1 -43.1 47.7	295	0.417 0.0	1.0
298	296	296	0.049	0.0 1.0	30.8	22.5 -42.3 48.0	298	0.026	0.0 1.0	30.8	20.9 -42.8 47.8	296	0.433 0.0	1.0
299	297	297	0.061	0.0 1.0	30.8	23.3 -41.9 48.1	299	0.037	0.0 1.0	30.8	21.7 -42.5 47.9	297	0.45 0.0	1.0
300	298	298	0.073	0.0 1.0	30.8	24.1 -41.6 48.2	300	0.049	0.0 1.0	30.8	22.5 -42.3 48.0	298	0.467 0.0	1.0
301	299	299	0.085	0.0 1.0	30.8	24.9 -41.3 48.3	301	0.061	0.0 1.0	30.8	23.3 -41.9 48.1	299	0.483 0.0	1.0
302	300	300	0.096	0.0 1.0	30.8	25.6 -40.9 48.4	302	0.073	0.0 1.0	30.8	24.1 -41.6 48.2	300	0.5 0.0	1.0

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

TUV registration: 20110301-OE32/OE32L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$; Six hue angles of the device colours d : $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

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

Data of Maximum color M in colorimetric system laser printer HRS16_96; separation cmyn6*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{ab,d} = 32.4, 95.2, 152.9, 225.9, 293.8, 352.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lab_d	h_ab,s	h_ab,e	rgb* _{dd361Mi}								LAB* _{dd361Mix} (x=LabCh)								rgb* _{ds361Mi}				LAB* _{ds361Mix} (x=LabCh)								rgb* _{s50M}				rgb* _{de361Mi}				LAB* _{de361Mix} (x=LabCh)								rgb* _{e50M}				rgb*_d	rgb*_s	rgb*_e
347	345	343	0.876	0.0	1.0	43.2	64.5	-14.8	66.1	347	0.825	0.0	1.0	42.0	62.2	-16.6	64.4	345	1.0	0.0	0.75	0.775	0.0	1.0	40.8	59.9	-18.2	62.7	343	1.0	0.0	0.75																					
348	346	344	0.898	0.0	1.0	43.9	65.6	-13.9	67.1	348	0.851	0.0	1.0	42.6	63.3	-15.7	65.3	346	1.0	0.0	0.733	0.8	0.0	1.0	41.4	61.1	-17.4	63.6	344	1.0	0.0	0.733																					
349	347	345	0.92	0.0	1.0	44.6	66.8	-12.9	68.1	349	0.876	0.0	1.0	43.2	64.5	-14.8	66.1	347	1.0	0.0	0.717	0.825	0.0	1.0	42.0	62.2	-16.6	64.4	345	1.0	0.0	0.717																					
350	348	346	0.942	0.0	1.0	45.2	68.0	-11.9	69.0	350	0.898	0.0	1.0	43.9	65.6	-13.9	67.1	348	1.0	0.0	0.7	0.851	0.0	1.0	42.6	63.3	-15.7	65.3	346	1.0	0.0	0.7																					
351	349	347	0.965	0.0	1.0	45.9	69.1	-10.8	70.0	351	0.92	0.0	1.0	44.6	66.8	-12.9	68.1	349	1.0	0.0	0.683	0.876	0.0	1.0	43.2	64.5	-14.8	66.1	347	1.0	0.0	0.683																					
352	350	348	0.987	0.0	1.0	46.6	70.2	-9.8	70.9	352	0.942	0.0	1.0	45.2	68.0	-11.9	69.0	350	1.0	0.0	0.667	0.898	0.0	1.0	43.9	65.6	-13.9	67.1	348	1.0	0.0	0.667																					
353	351	349	1.0	0.0	0.983	46.9	71.0	-8.6	71.5	353	0.965	0.0	1.0	45.9	69.1	-10.8	70.0	351	1.0	0.0	0.65	0.92	0.0	1.0	44.6	66.8	-12.9	68.1	349	1.0	0.0	0.65																					
354	352	349	1.0	0.0	0.94	46.8	71.2	-7.4	71.6	354	0.987	0.0	1.0	46.6	70.2	-9.8	70.9	352	1.0	0.0	0.633	0.92	0.0	1.0	44.6	66.8	-12.9	68.1	349	1.0	0.0	0.633																					
355	353	350	1.0	0.0	0.897	46.6	71.4	-6.1	71.6	355	1.0	0.0	0.983	46.9	71.0	-8.6	71.5	353	1.0	0.0	0.617	0.942	0.0	1.0	45.2	68.0	-11.9	69.0	350	1.0	0.0	0.617																					
356	354	351	1.0	0.0	0.865	46.5	71.4	-4.9	71.6	356	1.0	0.0	0.94	46.8	71.2	-7.4	71.6	354	1.0	0.0	0.6	0.965	0.0	1.0	45.9	69.1	-10.8	70.0	351	1.0	0.0	0.6																					
357	355	352	1.0	0.0	0.845	46.5	71.3	-3.6	71.4	357	1.0	0.0	0.897	46.6	71.4	-6.1	71.6	355	1.0	0.0	0.583	0.987	0.0	1.0	46.6	70.2	-9.8	70.9	352	1.0	0.0	0.583																					
358	356	353	1.0	0.0	0.825	46.5	71.1	-2.4	71.1	358	1.0	0.0	0.865	46.5	71.4	-4.9	71.6	356	1.0	0.0	0.567	1.0	0.0	0.983	46.9	71.0	-8.6	71.5	353	1.0	0.0	0.567																					
359	357	354	1.0	0.0	0.804	46.6	70.9	-1.1	70.9	359	1.0	0.0	0.845	46.5	71.3	-3.6	71.4	357	1.0	0.0	0.55	1.0	0.0	0.94	46.8	71.2	-7.4	71.6	354	1.0	0.0	0.55																					
0	358	355	1.0	0.0	0.784	46.6	70.7	0.0	70.7	0	1.0	0.0	0.825	46.5	71.1	-2.4	71.1	358	1.0	0.0	0.533	1.0	0.0	0.897	46.6	71.4	-6.1	71.6	355	1.0	0.0	0.533																					
1	359	356	1.0	0.0	0.764	46.6	70.5	1.2	70.5	1	1.0	0.0	0.804	46.6	70.9	-1.1	70.9	359	1.0	0.0	0.517	1.0	0.0	0.865	46.5	71.4	-4.9	71.6	356	1.0	0.0	0.517																					
2	360	357	1.0	0.0	0.744	46.6	70.2	2.5	70.3	2	1.0	0.0	0.784	46.6	70.7	0.0	70.7	0	1.0	0.0	0.5	1.0	0.0	0.845	46.5	71.3	-3.6	71.4	357	1.0	0.0	0.5																					
3	361	358	1.0	0.0	0.725	46.6	70.0	3.7	70.1	3	1.0	0.0	0.764	46.6	70.5	1.2	70.5	1	1.0	0.0	0.483	1.0	0.0	0.825	46.5	71.1	-2.4	71.1	358	1.0	0.0	0.483																					
4	362	359	1.0	0.0	0.707	46.6	69.7	4.9	69.9	4	1.0	0.0	0.744	46.6	70.2	2.5	70.3	2	1.0	0.0	0.467	1.0	0.0	0.804	46.6	70.9	-1.1	70.9	359	1.0	0.0	0.467																					
5	363	360	1.0	0.0	0.688	46.6	69.4	6.1	69.7	5	1.0	0.0	0.725	46.6	70.0	3.7	70.1	3	1.0	0.0	0.45	1.0	0.0	0.784	46.6	70.7	0.0	70.7	0	1.0	0.0	0.45																					
6	364	361	1.0	0.0	0.67	46.6	69.1	7.3	69.4	6	1.0	0.0	0.707	46.6	69.7	4.9	69.9	4	1.0	0.0	0.433	1.0	0.0	0.764	46.6	70.5	1.2	70.5	1	1.0	0.0	0.433																					
7	365	362	1.0	0.0	0.652	46.6	68.7	8.4	69.2	7	1.0	0.0	0.688	46.6	69.4	6.1	69.7	5	1.0	0.0	0.417	1.0	0.0	0.744	46.6	70.2	2.5	70.3	2	1.0	0.0	0.417																					
8	366	363	1.0	0.0	0.633	46.6	68.4	9.6	69.0	8	1.0	0.0	0.67	46.6	69.1	7.3	69.4	6	1.0	0.0	0.4	1.0	0.0	0.725	46.6	70.0	3.7	70.1	3	1.0	0.0	0.4																					
9	367	364	1.0	0.0	0.612	46.6	68.0	10.8	68.9	9	1.0	0.0	0.652	46.6	68.7	8.4	69.2	7	1.0	0.0	0.383	1.0	0.0	0.707	46.6	69.7	4.9	69.9	4	1.0	0.0	0.383																					
10	368	365	1.0	0.0	0.588	46.6	67.7	11.9	68.8	10	1.0	0.0	0.633	46.6	68.4	9.6	69.0	8	1.0	0.0	0.367	1.0	0.0	0.688	46.6	69.4	6.1	69.7	5	1.0	0.0	0.367																					
11	369	366	1.0	0.0	0.564	46.5	67.4	13.1	68.6	11	1.0	0.0	0.612	46.6	68.0	10.8	68.9	9	1.0	0.0	0.35	1.0	0.0	0.67	46.6	69.1	7.3	69.4	6	1.0	0.0	0.35																					
12	370	367	1.0	0.0	0.541	46.5	67.0	14.2	68.5	12	1.0	0.0	0.588	46.6	67.7	11.9	68.8	10	1.0	0.0	0.333	1.0	0.0	0.652	46.6	68.7	8.4	69.2	7	1.0	0.0	0.333																					
13	371	367	1.0	0.0	0.517	46.5	66.7	15.4	68.4	13	1.0	0.0	0.564	46.5	67.4	13.1	68.6	11	1.0	0.0	0.317	1.0	0.0	0.652	46.6	68.7	8.4	69.2	7	1.0	0.0	0.317																					
14	372	368	1.0	0.0	0.493	46.5	66.4	16.5	68.4	14	1.0	0.0	0.541	46.5	67.0	14.2	68.5	12	1.0	0.0	0.3	1.0	0.0	0.633	46.6	68.4	9.6	69.0	8	1.0	0.0	0.3																					
15	373	369	1.0	0.0	0.47	46.5	66.2	17.8	68.6	15	1.0	0.0	0.517	46.5	66.7	15.4	68.4	13	1.0	0.0	0.283	1.0	0.0	0.612	46.6	68.0	10.8	68.9	9	1.0	0.0	0.283																					
16	374	370	1.0	0.0	0.447	46.5	66.1	19.0	68.8	16	1.0	0.0	0.493	46.5	66.4	16.5	68.4	14	1.0	0.0	0.267	1.0	0.0	0.588	46.6	67.7	11.9	68.8	10	1.0	0.0	0.267																					
17	375	371	1.0	0.0	0.423	46.5	65.9	20.2	68.9	17	1.0	0.0	0.47	46.5	66.2	17.8	68.6	15	1.0	0.0	0.25	1.0	0.0	0.564	46.5	67.4	13.1	68.6	11	1.0	0.0	0.25																					
18	376	372	1.0	0.0	0.4	46.5	65.7	21.4	69.1	18	1.0	0.0	0.447	46.5	66.1	19.0	68.8	16	1.0	0.0	0.233	1.0	0.0	0.541	46.5	67.0	14.2	68.5	12	1.0	0.0	0.233																					
19	377	373	1.0	0.0	0.377	46.5	65.5	22.6	69.3	19	1.0	0.0	0.423	46.5	65.9	20.2	68.9																																				