

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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

$LCH^*_d = 91.6 \ 84.8 \ 99.4$
 $LAB^*_d = 91.6 \ -13.9 \ 83.6$
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

L=G_d Leaf green

$LCH^*_d = 56.8 \ 72.6 \ 150.6$
 $LAB^*_d = 56.8 \ -63.3 \ 35.5$
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

C=C_d Cyan blue

$LCH^*_d = 51.7 \ 51.7 \ 229.1$
 $LAB^*_d = 51.7 \ -33.7 \ -39.1$
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

O=R_d Orange red

$LCH^*_d = 45.9 \ 72.8 \ 31.7$
 $LAB^*_d = 45.9 \ 61.9 \ 38.3$
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

M=M_d Magenta red

$LCH^*_d = 45.3 \ 72.1 \ 349.6$
 $LAB^*_d = 45.3 \ 70.9 \ -12.9$
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

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

$LCH^*_d = 30.8 \ 49.6 \ 299.1$
 $LAB^*_d = 30.8 \ 24.1 \ -43.3$
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

J_e Yellow

$LCH^*_e = 84.5 \ 75.2 \ 92.0$
 $LAB^*_e = 84.5 \ -2.6 \ 75.2$
 $rgb^*_e = 1.0 \ 0.812 \ 0.0$

G_e Green

$LCH^*_e = 56.3 \ 63.5 \ 162.0$
 $LAB^*_e = 56.3 \ -60.4 \ 19.6$
 $rgb^*_e = 0.0 \ 1.0 \ 0.177$

C_e Blue green

$LCH^*_e = 54.5 \ 47.9 \ 217.0$
 $LAB^*_e = 54.5 \ -38.3 \ -28.8$
 $rgb^*_e = 0.0 \ 1.0 \ 0.894$

B_e Blue

$LCH^*_e = 35.2 \ 49.1 \ 272.0$
 $LAB^*_e = 35.2 \ 1.7 \ -49.1$
 $rgb^*_e = 0.0 \ 0.283 \ 1.0$

R_e Red

$LCH^*_e = 45.1 \ 68.5 \ 25.0$
 $LAB^*_e = 45.1 \ 62.1 \ 28.9$
 $rgb^*_e = 1.0 \ 0.0 \ 0.194$

M_e Blue red

$LCH^*_e = 34.2 \ 57.7 \ 329.0$
 $LAB^*_e = 34.2 \ 49.5 \ -29.7$
 $rgb^*_e = 0.488 \ 0.0 \ 1.0$

J_s Yellow

$LCH^*_s = 82.8 \ 77.3 \ 90.0$
 $LAB^*_s = 82.8 \ 0.0 \ 77.3$
 $rgb^*_s = 1.0 \ 0.763 \ 0.0$

G_s Green

$LCH^*_s = 57.2 \ 72.4 \ 150.0$
 $LAB^*_s = 57.2 \ -62.7 \ 36.2$
 $rgb^*_s = 0.015 \ 1.0 \ 0.0$

C_s Blue green

$LCH^*_s = 55.7 \ 46.7 \ 210.0$
 $LAB^*_s = 55.7 \ -40.4 \ -23.3$
 $rgb^*_s = 0.0 \ 1.0 \ 0.818$

B_s Blue

$LCH^*_s = 36.1 \ 49.1 \ 270.0$
 $LAB^*_s = 36.1 \ 0.0 \ -49.1$
 $rgb^*_s = 0.0 \ 0.306 \ 1.0$

R_s Red

$LCH^*_s = 45.7 \ 71.5 \ 30.0$
 $LAB^*_s = 45.7 \ 61.9 \ 35.7$
 $rgb^*_s = 1.0 \ 0.0 \ 0.061$

M_s Blue red

$LCH^*_s = 34.7 \ 58.2 \ 330.0$
 $LAB^*_s = 34.7 \ 50.4 \ -29.1$
 $rgb^*_s = 0.513 \ 0.0 \ 1.0$

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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Six hue angles of the device colours d: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; Six hue angles of the elementary colours e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours d: $h_{abd} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; Six hue angles of the elementary colours e: $h_{abe} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																																	
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd50M}	$LAB^*_{dd50Mx} (x=LabCh)$	rgb^*_{ds50M}	$LAB^*_{ds50Mx} (x=LabCh)$	rgb^*_{s50M}	rgb^*_{de50M}	$LAB^*_{de50Mx} (x=LabCh)$	rgb^*_{e50M}																							
31.8	30.0	25.5	1.0	0.0	0.0	46.0	61.9	38.4	72.8	31.8	1.0	0.0	0.061	45.7	62.0	35.8	71.5	30	1.0	0.0	0.0	1.0	0.0	0.195	45.2	62.1	29.0	68.6	25	1.0	0.0	0.0	
43.5	37.5	33.8	1.0	0.125	0.0	52.4	56.4	53.5	77.7	43.5	1.0	0.066	0.0	49.4	59.4	46.4	75.4	38	1.0	0.125	0.0	1.0	0.024	0.0	47.2	61.1	41.2	73.8	34	1.0	0.125	0.0	
55.7	45.0	42.2	1.0	0.25	0.0	59.9	41.3	60.5	73.3	55.7	1.0	0.14	0.0	53.3	54.6	54.6	77.2	45	1.0	0.25	0.0	1.0	0.109	0.0	51.5	57.3	51.6	77.1	42	1.0	0.25	0.0	
65.5	52.5	50.5	1.0	0.375	0.0	65.8	30.1	66.0	72.5	65.5	1.0	0.223	0.0	58.2	44.7	59.3	74.2	53	1.0	0.375	0.0	1.0	0.202	0.0	57.0	47.2	58.3	75.0	51	1.0	0.375	0.0	
74.8	60.0	58.9	1.0	0.5	0.0	71.6	19.3	71.1	73.7	74.8	1.0	0.305	0.0	62.5	36.5	63.2	72.9	60	1.0	0.5	0.0	1.0	0.292	0.0	61.9	37.6	62.6	73.0	59	1.0	0.5	0.0	
81.0	67.5	67.2	1.0	0.625	0.0	75.7	11.9	75.0	76.0	81.0	1.0	0.409	0.0	67.4	27.3	67.5	72.8	68	1.0	0.625	0.0	1.0	0.395	0.0	66.7	28.4	66.9	72.7	67	1.0	0.625	0.0	
89.5	75.0	75.6	1.0	0.75	0.0	82.4	0.7	77.8	77.8	89.5	1.0	0.504	0.0	71.7	19.1	71.2	73.7	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	
94.5	82.5	84.0	1.0	0.875	0.0	86.7	-5.7	72.5	72.7	94.5	1.0	0.655	0.0	77.3	9.3	75.8	76.4	83	1.0	0.875	0.0	1.0	0.67	0.0	78.1	8.0	76.2	76.6	84	1.0	0.875	0.0	
99.5	90.0	92.3	1.0	1.0	0.0	91.6	-13.8	83.7	84.8	99.5	1.0	0.763	0.0	82.9	0.0	77.3	77.3	90	1.0	1.0	0.0	1.0	0.812	0.0	84.5	-2.5	75.2	75.3	92	1.0	1.0	0.0	
100.6	97.5	101.1	0.875	1.0	0.0	93.5	-17.3	93.0	94.6	100.6	1.0	0.963	0.0	90.1	-11.2	80.4	81.2	98	0.875	1.0	0.0	0.864	1.0	0.0	93.0	-17.9	92.4	94.1	101	0.875	1.0	0.0	
105.0	105.0	109.8	0.75	1.0	0.0	88.4	-22.9	85.8	88.8	105.0	0.751	1.0	0.0	88.4	-22.9	85.8	88.9	105	0.75	1.0	0.0	0.677	1.0	0.0	83.6	-28.3	77.9	82.9	110	0.75	1.0	0.0	
113.6	112.5	118.5	0.625	1.0	0.0	80.2	-31.3	72.1	78.7	113.6	0.633	1.0	0.0	80.7	-30.9	73.0	79.3	113	0.625	1.0	0.0	0.542	1.0	0.0	75.8	-36.5	66.0	75.4	119	0.625	1.0	0.0	
121.8	120.0	127.3	0.5	1.0	0.0	73.5	-38.8	62.7	73.8	121.8	0.527	1.0	0.0	75.0	-37.3	64.8	74.8	120	0.5	1.0	0.0	0.403	1.0	0.0	70.0	-43.2	57.4	71.9	127	0.5	1.0	0.0	
128.5	127.5	136.0	0.375	1.0	0.0	69.0	-44.4	55.9	71.4	128.5	0.385	1.0	0.0	69.3	-44.0	56.4	71.6	128	0.375	1.0	0.0	0.276	1.0	0.0	65.0	-50.7	49.1	70.7	136	0.375	1.0	0.0	
138.0	135.0	144.7	0.25	1.0	0.0	63.9	-52.3	47.2	70.5	138.0	0.289	1.0	0.0	65.5	-50.0	50.1	70.8	135	0.25	1.0	0.0	0.128	1.0	0.0	60.1	-57.9	40.6	70.8	145	0.25	1.0	0.0	
145.2	142.5	153.5	0.125	1.0	0.0	60.0	-58.0	40.4	70.8	145.2	0.163	1.0	0.0	61.2	-56.4	42.6	70.7	143	0.125	1.0	0.0	0.0	1.0	0.037	56.7	-63.0	32.2	70.9	153	0.125	1.0	0.0	
150.7	150.0	162.2	0.0	1.0	0.0	56.9	-63.2	35.6	72.6	150.7	0.015	1.0	0.0	57.3	-62.6	36.2	72.4	150	0.0	1.0	0.0	0.0	1.0	0.178	56.3	-60.3	19.6	63.5	162	0.0	1.0	0.0	
158.6	157.5	169.1	0.0	1.0	0.125	56.2	-61.9	24.3	66.6	158.6	0.0	1.0	0.115	56.3	-62.1	25.1	67.0	158	0.0	1.0	0.125	0.0	1.0	0.284	56.6	-56.8	11.1	58.0	169	0.0	1.0	0.125	
166.6	165.0	175.9	0.0	1.0	0.25	56.5	-57.6	13.7	59.3	166.6	0.0	1.0	0.225	56.4	-58.6	15.7	60.8	165	0.0	1.0	0.25	0.0	1.0	0.384	56.8	-53.8	3.8	54.1	176	0.0	1.0	0.25	
175.4	172.5	182.8	0.0	1.0	0.375	56.8	-54.1	4.4	54.4	175.4	0.0	1.0	0.341	56.7	-55.2	6.8	55.8	173	0.0	1.0	0.375	0.0	1.0	0.481	57.3	-50.1	-2.5	50.2	183	0.0	1.0	0.375	
184.4	180.0	189.6	0.0	1.0	0.5	57.4	-49.2	-3.7	49.5	184.4	0.0	1.0	0.439	57.1	-51.8	0.0	51.9	180	0.0	1.0	0.5	0.0	1.0	0.562	57.3	-47.2	-8.2	48.1	190	0.0	1.0	0.5	
195.7	187.5	196.4	0.0	1.0	0.625	57.3	-44.8	-12.5	46.6	195.7	0.0	1.0	0.54	57.4	-48.0	-6.7	48.6	188	0.0	1.0	0.625	0.0	1.0	0.629	57.2	-44.7	-12.8	46.6	196	0.0	1.0	0.625	
204.2	195.0	203.3	0.0	1.0	0.75	56.6	-41.8	-18.7	46.0	204.2	0.0	1.0	0.617	57.3	-45.1	-12.0	46.8	195	0.0	1.0	0.75	0.0	1.0	0.732	56.7	-42.3	-17.9	46.1	203	0.0	1.0	0.75	
214.8	202.5	210.1	0.0	1.0	0.875	55.0	-38.8	-26.9	47.3	214.8	0.0	1.0	0.732	56.7	-42.3	-17.9	46.1	203	0.0	1.0	0.875	0.0	1.0	0.819	55.7	-40.4	-23.3	46.7	210	0.0	1.0	0.875	
229.2	210.0	217.0	0.0	1.0	1.0	51.7	-33.7	-39.0	51.7	229.2	0.0	1.0	0.819	55.7	-40.4	-23.3	46.7	210	0.0	1.0	1.0	0.0	1.0	0.894	54.5	-38.2	-28.8	48.0	217	0.0	1.0	1.0	
232.6	217.5	223.8	0.0	0.875	1.0	51.0	-31.9	-41.8	52.7	232.6	0.0	1.0	0.903	54.3	-38.0	-29.6	48.3	218	0.0	0.875	1.0	0.0	1.0	0.955	52.9	-36.0	-34.7	50.1	224	0.0	0.875	1.0	
238.3	225.0	230.7	0.0	0.75	1.0	50.9	-28.2	-45.6	53.8	238.3	0.0	1.0	0.964	52.7	-35.6	-35.6	50.4	225	0.0	0.75	1.0	0.0	1.0	0.934	51.0	-32.8	-40.5	52.2	231	0.0	0.75	1.0	
246.6	232.5	237.5	0.0	0.625	1.0	48.0	-21.0	-48.6	53.1	246.6	0.0	0.867	1.0	51.0	-31.6	-42.0	52.7	233	0.0	0.625	1.0	0.0	1.0	0.756	51.0	-28.4	-45.5	53.7	238	0.0	0.625	1.0	
254.1	240.0	244.4	0.0	0.5	1.0	44.0	-13.8	-48.6	50.6	254.1	0.0	0.724	1.0	50.3	-26.7	-46.3	53.6	240	0.0	0.5	1.0	0.0	1.0	0.664	51.0	-23.3	-47.8	53.3	244	0.0	0.5	1.0	
263.8	247.5	251.2	0.0	0.375	1.0	38.9	-5.2	-48.7	49.1	263.8	0.0	0.601	1.0	47.3	-19.6	-48.7	52.6	248	0.0	0.375	1.0	0.0	1.0	0.551	51.0	-16.7	-48.7	51.6	251	0.0	0.375	1.0	
275.0	255.0	258.0	0.0	0.25	1.0	33.8	4.3	-48.9	49.2	275.0	0.0	0.488	1.0	43.5	-13.0	-48.6	50.5	255	0.0	0.25	1.0	0.0	1.0	0.45	51.0	-10.3	-48.8	50.0	258	0.0	0.25	1.0	
288.2	262.5	264.9	0.0	0.125	1.0	33.4	15.0	-45.5	48.0	288.2	0.0	0.386	1.0	39.4	-5.9	-48.8	49.2	263	0.0	0.125	1.0	0.0	1.0	0.362	51.0	-4.2	-48.8	49.1	265	0.0	0.125	1.0	
299.1	270.0	271.7	0.0	0.0	1.0	30.8	24.1	-43.2	49.6	299.1	0.0	0.306	1.0	36.1	0.0	-49.0	49.1	270	0.0	0.0	1.0	0.0	1.0	0.284	51.0	35.2	1.7	-49.0	49.2	272	0.0	0.0	1.0
307.6	277.5	278.8	0.125	0.0	1.0	30.6	31.4	-40.6	51.4	307.6	0.0	0.222	1.0	33.7	6.8	-48.3	48.9	278	0.125	0.0	1.0	0.0	1.0	0.212	51.0	33.7	7.6	-48.1	48.8	279	0.125	0.0	1.0
317.5	285.0	286.0	0.25	0.0	1.0	30.5	39.8	-36.4	54.0	317.5	0.0	0.155	1.0	33.5	12.5	-46.6	48																

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.PDF> /.PS
Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

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$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{dd361Mix}(x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mix}(x=LabCh)$	rgb^*_{s50M}	$rgb^*_{de361Mi}$	$LAB^*_{de361Mix}(x=LabCh)$	rgb^*_{e50M}	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
31	30	25	1.0	0.0	0.027	45.9	61.9	37.2	72.3	31	1.0	0.0	0.0
32	31	27	1.0	0.002	0.0	46.1	61.8	38.6	72.9	32	1.0	0.002	0.0
33	32	28	1.0	0.013	0.0	46.6	61.5	39.9	73.3	33	1.0	0.013	0.0
34	33	29	1.0	0.024	0.0	47.2	61.1	41.2	73.8	34	1.0	0.024	0.0
35	34	30	1.0	0.034	0.0	47.7	60.8	42.5	74.2	35	1.0	0.034	0.0
36	35	31	1.0	0.045	0.0	48.3	60.3	43.8	74.6	36	1.0	0.045	0.0
37	36	32	1.0	0.056	0.0	48.8	59.9	45.1	75.0	37	1.0	0.056	0.0
38	37	33	1.0	0.066	0.0	49.4	59.4	46.4	75.4	38	1.0	0.066	0.0
39	38	34	1.0	0.077	0.0	49.9	58.9	47.7	75.8	39	1.0	0.077	0.0
40	39	36	1.0	0.088	0.0	50.5	58.4	49.0	76.3	40	1.0	0.088	0.0
41	40	37	1.0	0.098	0.0	51.0	57.9	50.3	76.7	41	1.0	0.098	0.0
42	41	38	1.0	0.109	0.0	51.5	57.3	51.6	77.1	42	1.0	0.109	0.0
43	42	39	1.0	0.12	0.0	52.1	56.7	52.9	77.5	43	1.0	0.12	0.0
44	43	40	1.0	0.13	0.0	52.7	55.8	53.9	77.5	44	1.0	0.13	0.0
45	44	41	1.0	0.14	0.0	53.3	54.6	54.6	77.2	45	1.0	0.14	0.0
46	45	42	1.0	0.151	0.0	53.9	53.3	55.2	76.8	46	1.0	0.151	0.0
47	46	43	1.0	0.161	0.0	54.5	52.1	55.9	76.4	47	1.0	0.161	0.0
48	47	44	1.0	0.171	0.0	55.1	50.9	56.5	76.1	48	1.0	0.171	0.0
49	48	46	1.0	0.182	0.0	55.8	49.7	57.1	75.7	49	1.0	0.182	0.0
50	49	47	1.0	0.192	0.0	56.4	48.4	57.7	75.3	50	1.0	0.192	0.0
51	50	48	1.0	0.202	0.0	57.0	47.2	58.3	75.0	51	1.0	0.202	0.0
52	51	49	1.0	0.212	0.0	57.6	45.9	58.8	74.6	52	1.0	0.212	0.0
53	52	50	1.0	0.223	0.0	58.2	44.7	59.3	74.2	53	1.0	0.223	0.0
54	53	51	1.0	0.233	0.0	58.9	43.4	59.8	73.9	54	1.0	0.233	0.0
55	54	52	1.0	0.243	0.0	59.5	42.2	60.2	73.5	55	1.0	0.243	0.0
56	55	53	1.0	0.254	0.0	60.1	41.0	60.7	73.2	56	1.0	0.254	0.0
57	56	54	1.0	0.267	0.0	60.7	39.8	61.4	73.2	57	1.0	0.267	0.0
58	57	56	1.0	0.28	0.0	61.3	38.7	62.0	73.1	58	1.0	0.28	0.0
59	58	57	1.0	0.292	0.0	61.9	37.6	62.6	73.0	59	1.0	0.292	0.0
60	59	58	1.0	0.305	0.0	62.5	36.5	63.2	72.9	60	1.0	0.305	0.0
61	60	59	1.0	0.318	0.0	63.1	35.3	63.7	72.9	61	1.0	0.318	0.0
62	61	60	1.0	0.331	0.0	63.7	34.2	64.3	72.8	62	1.0	0.331	0.0
63	62	61	1.0	0.343	0.0	64.3	33.0	64.8	72.7	63	1.0	0.343	0.0
64	63	62	1.0	0.356	0.0	64.9	31.8	65.3	72.6	64	1.0	0.356	0.0
65	64	63	1.0	0.369	0.0	65.5	30.7	65.8	72.6	65	1.0	0.369	0.0
66	65	64	1.0	0.382	0.0	66.1	29.5	66.3	72.6	66	1.0	0.382	0.0
67	66	66	1.0	0.395	0.0	66.7	28.4	66.9	72.7	67	1.0	0.395	0.0
68	67	67	1.0	0.409	0.0	67.4	27.3	67.5	72.8	68	1.0	0.409	0.0
69	68	68	1.0	0.422	0.0	68.0	26.1	68.1	73.0	69	1.0	0.422	0.0
70	69	69	1.0	0.436	0.0	68.6	25.0	68.7	73.1	70	1.0	0.436	0.0
71	70	70	1.0	0.449	0.0	69.2	23.8	69.2	73.2	71	1.0	0.449	0.0
72	71	71	1.0	0.462	0.0	69.8	22.7	69.7	73.3	72	1.0	0.462	0.0
73	72	72	1.0	0.476	0.0	70.5	21.5	70.2	73.4	73	1.0	0.476	0.0
74	73	73	1.0	0.489	0.0	71.1	20.3	70.7	73.6	74	1.0	0.489	0.0
75	74	74	1.0	0.504	0.0	71.7	19.1	71.2	73.7	75	1.0	0.504	0.0
76	75	76	1.0	0.524	0.0	72.4	17.9	71.9	74.1	76	1.0	0.524	0.0

OE330-7N, Page of series 3/20, RX0, D65, XYZnw=1.8, 1.9, 1.9, 88.0, 93.2, 98.2, LAB*nw=15.0, 0.3, 1.3, 97.3, -0.9, 2.1, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 3/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 3/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

TUB registration: 20110301-OE33/OE33L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.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 with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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}
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	0.545 0.0	73.1	16.8	72.6	74.5	77	1.0	0.767	0.0	
78	77	78	1.0	0.565 0.0	73.7	15.6	73.2	74.9	78	1.0	0.783	0.0	
79	78	79	1.0	0.585 0.0	74.4	14.4	73.8	75.2	79	1.0	0.8	0.0	
80	79	80	1.0	0.606 0.0	75.1	13.1	74.5	75.6	80	1.0	0.817	0.0	
81	80	81	1.0	0.626 0.0	75.8	11.9	75.0	76.0	81	1.0	0.833	0.0	
82	81	82	1.0	0.64 0.0	76.6	10.6	75.4	76.2	82	1.0	0.85	0.0	
83	82	83	1.0	0.655 0.0	77.3	9.3	75.8	76.4	83	1.0	0.867	0.0	
84	83	85	1.0	0.67 0.0	78.1	8.0	76.2	76.6	84	1.0	0.883	0.0	
85	84	86	1.0	0.684 0.0	78.9	6.7	76.6	76.9	85	1.0	0.9	0.0	
86	85	87	1.0	0.699 0.0	79.7	5.4	76.9	77.1	86	1.0	0.917	0.0	
87	86	88	1.0	0.714 0.0	80.5	4.0	77.2	77.3	87	1.0	0.933	0.0	
88	87	89	1.0	0.728 0.0	81.3	2.7	77.5	77.5	88	1.0	0.95	0.0	
89	88	90	1.0	0.743 0.0	82.1	1.4	77.7	77.7	89	1.0	0.967	0.0	
90	89	91	1.0	0.763 0.0	82.9	0.0	77.3	77.3	90	1.0	0.983	0.0	
91	90	92	1.0	0.788 0.0	83.7	-1.2	76.3	76.3	91	1.0	0.0	0.0	J_s
92	91	93	1.0	0.812 0.0	84.5	-2.5	75.2	75.3	92	1.0	0.837	0.0	J_e
93	92	95	1.0	0.837 0.0	85.4	-3.8	74.2	74.3	93	1.0	0.887	0.0	
94	93	96	1.0	0.862 0.0	86.2	-5.0	73.1	73.3	94	1.0	0.912	0.0	
95	94	97	1.0	0.887 0.0	87.1	-6.3	73.6	73.8	95	1.0	0.937	0.0	
96	95	98	1.0	0.912 0.0	88.1	-7.9	75.9	76.3	96	1.0	0.963	0.0	
97	96	99	1.0	0.937 0.0	89.1	-9.5	78.2	78.8	97	1.0	0.988	0.0	
98	97	100	1.0	0.963 0.0	90.1	-11.2	80.4	81.2	98	1.0	0.941	1.0	0.0
99	98	102	1.0	0.988 0.0	91.1	-13.0	82.7	83.7	99	1.0	0.836	1.0	0.0
100	99	103	0.941	1.0 0.0	92.5	-15.4	88.1	89.4	100	1.0	0.807	1.0	0.0
101	100	104	0.864	1.0 0.0	93.0	-17.9	92.4	94.1	101	1.0	0.779	1.0	0.0
102	101	105	0.836	1.0 0.0	91.9	-19.2	90.8	92.8	102	1.0	0.751	1.0	0.0
103	102	106	0.807	1.0 0.0	90.7	-20.5	89.1	91.5	103	1.0	0.736	1.0	0.0
104	103	107	0.779	1.0 0.0	89.6	-21.7	87.5	90.2	104	1.0	0.721	1.0	0.0
105	104	109	0.751	1.0 0.0	88.4	-22.9	85.8	88.9	105	1.0	0.692	1.0	0.0
106	105	110	0.736	1.0 0.0	87.4	-24.1	84.3	87.7	106	1.0	0.677	1.0	0.0
107	106	111	0.721	1.0 0.0	86.5	-25.2	82.7	86.5	107	1.0	0.662	1.0	0.0
108	107	112	0.706	1.0 0.0	85.5	-26.3	81.1	85.3	108	1.0	0.648	1.0	0.0
109	108	113	0.692	1.0 0.0	84.6	-27.3	79.5	84.1	109	1.0	0.633	1.0	0.0
110	109	114	0.677	1.0 0.0	83.6	-28.3	77.9	82.9	110	1.0	0.618	1.0	0.0
111	110	116	0.662	1.0 0.0	82.7	-29.2	76.3	81.7	111	1.0	0.588	1.0	0.0
112	111	117	0.648	1.0 0.0	81.7	-30.1	74.6	80.5	112	1.0	0.573	1.0	0.0
113	112	118	0.633	1.0 0.0	80.7	-30.9	73.0	79.3	113	1.0	0.558	1.0	0.0
114	113	119	0.618	1.0 0.0	79.9	-31.8	71.6	78.4	114	1.0	0.542	1.0	0.0
115	114	120	0.603	1.0 0.0	79.0	-32.8	70.5	77.8	115	1.0	0.527	1.0	0.0
116	115	121	0.588	1.0 0.0	78.2	-33.7	69.4	77.2	116	1.0	0.512	1.0	0.0
117	116	123	0.573	1.0 0.0	77.4	-34.7	68.3	76.6	117	1.0	0.478	1.0	0.0
118	117	124	0.558	1.0 0.0	76.6	-35.6	67.1	76.0	118	1.0	0.459	1.0	0.0
119	118	125	0.542	1.0 0.0	75.8	-36.5	66.0	75.4	119	1.0	0.44	1.0	0.0
120	119	126	0.527	1.0 0.0	75.0	-37.3	64.8	74.8	120	1.0	0.422	1.0	0.0
121	120	127	0.512	1.0 0.0	74.2	-38.1	63.6	74.2	121	1.0	0.403	1.0	0.0

OE330-7N, Page of series 4/20, RX0, D65, XYZnw=1.8, 1.9, 1.9, 88.0, 93.2, 98.2, LAB*_{nw}=15.0, 0.3, 1.3, 97.3, -0.9, 2.1, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 4/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 4/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d set rgb^*_d color
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

TUB registration: 20110301-OE33/OE33L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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^*_d	rgb^*_s	rgb^*_e
121	120	127	0.512	1.0	0.0	74.2	-38.1	63.6	74.2	121	0.527	1.0	0.0	75.0	-37.3	64.8	74.8	120	0.5	1.0	0.0	0.403	1.0	0.0	70.0	-43.2	57.4	71.9	127	0.5	1.0	0.0																																					
122	121	128	0.496	1.0	0.0	73.4	-39.0	62.5	73.7	122	0.512	1.0	0.0	74.2	-38.1	63.6	74.2	121	0.483	1.0	0.0	0.385	1.0	0.0	69.3	-44.0	56.4	71.6	128	0.483	1.0	0.0																																					
123	122	130	0.478	1.0	0.0	72.7	-39.8	61.5	73.3	123	0.496	1.0	0.0	73.4	-39.0	62.5	73.7	122	0.467	1.0	0.0	0.355	1.0	0.0	68.2	-45.7	54.6	71.3	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	0.478	1.0	0.0	72.7	-39.8	61.5	73.3	123	0.45	1.0	0.0	0.342	1.0	0.0	67.7	-46.6	53.7	71.2	131	0.45	1.0	0.0																																					
125	124	132	0.44	1.0	0.0	71.4	-41.6	59.5	72.6	125	0.459	1.0	0.0	72.1	-40.7	60.5	73.0	124	0.433	1.0	0.0	0.329	1.0	0.0	67.1	-47.5	52.8	71.1	132	0.433	1.0	0.0																																					
126	125	133	0.422	1.0	0.0	70.7	-42.4	58.5	72.3	126	0.44	1.0	0.0	71.4	-41.6	59.5	72.6	125	0.417	1.0	0.0	0.316	1.0	0.0	66.6	-48.3	51.9	71.0	133	0.417	1.0	0.0																																					
127	126	134	0.403	1.0	0.0	70.0	-43.2	57.4	71.9	127	0.422	1.0	0.0	70.7	-42.4	58.5	72.3	126	0.4	1.0	0.0	0.303	1.0	0.0	66.0	-49.1	51.0	70.9	134	0.4	1.0	0.0																																					
128	127	135	0.385	1.0	0.0	69.3	-44.0	56.4	71.6	128	0.403	1.0	0.0	70.0	-43.2	57.4	71.9	127	0.383	1.0	0.0	0.289	1.0	0.0	65.5	-50.0	50.1	70.8	135	0.383	1.0	0.0																																					
129	128	137	0.369	1.0	0.0	68.7	-44.8	55.5	71.4	129	0.385	1.0	0.0	69.3	-44.0	56.4	71.6	128	0.367	1.0	0.0	0.263	1.0	0.0	64.4	-51.5	48.1	70.6	137	0.367	1.0	0.0																																					
130	129	138	0.355	1.0	0.0	68.2	-45.7	54.6	71.3	130	0.369	1.0	0.0	68.7	-44.8	55.5	71.4	129	0.35	1.0	0.0	0.25	1.0	0.0	63.9	-52.3	47.2	70.5	138	0.35	1.0	0.0																																					
131	130	139	0.342	1.0	0.0	67.7	-46.6	53.7	71.2	131	0.355	1.0	0.0	68.2	-45.7	54.6	71.3	130	0.333	1.0	0.0	0.232	1.0	0.0	63.4	-53.1	46.3	70.5	139	0.333	1.0	0.0																																					
132	131	140	0.329	1.0	0.0	67.1	-47.5	52.8	71.1	132	0.342	1.0	0.0	67.7	-46.6	53.7	71.2	131	0.317	1.0	0.0	0.215	1.0	0.0	62.8	-54.0	45.4	70.6	140	0.317	1.0	0.0																																					
133	132	141	0.316	1.0	0.0	66.6	-48.3	51.9	71.0	133	0.329	1.0	0.0	67.1	-47.5	52.8	71.1	132	0.3	1.0	0.0	0.198	1.0	0.0	62.3	-54.8	44.4	70.6	141	0.3	1.0	0.0																																					
134	133	142	0.303	1.0	0.0	66.0	-49.1	51.0	70.9	134	0.316	1.0	0.0	66.6	-48.3	51.9	71.0	133	0.283	1.0	0.0	0.18	1.0	0.0	61.7	-55.6	43.5	70.7	142	0.283	1.0	0.0																																					
135	134	144	0.289	1.0	0.0	65.5	-50.0	50.1	70.8	135	0.303	1.0	0.0	66.0	-49.1	51.0	70.9	134	0.267	1.0	0.0	0.146	1.0	0.0	60.7	-57.1	41.6	70.8	144	0.267	1.0	0.0																																					
136	135	145	0.276	1.0	0.0	65.0	-50.7	49.1	70.7	136	0.289	1.0	0.0	65.5	-50.0	50.1	70.8	135	0.25	1.0	0.0	0.128	1.0	0.0	60.1	-57.9	40.6	70.8	145	0.25	1.0	0.0																																					
137	136	146	0.263	1.0	0.0	64.4	-51.5	48.1	70.6	137	0.276	1.0	0.0	65.0	-50.7	49.1	70.7	136	0.233	1.0	0.0	0.107	1.0	0.0	59.5	-58.8	39.7	71.1	146	0.233	1.0	0.0																																					
138	137	147	0.25	1.0	0.0	63.9	-52.3	47.2	70.5	138	0.263	1.0	0.0	64.4	-51.5	48.1	70.6	137	0.217	1.0	0.0	0.084	1.0	0.0	59.0	-59.8	38.9	71.4	147	0.217	1.0	0.0																																					
139	138	148	0.232	1.0	0.0	63.4	-53.1	46.3	70.5	139	0.25	1.0	0.0	63.9	-52.3	47.2	70.5	138	0.2	1.0	0.0	0.061	1.0	0.0	58.4	-60.7	38.0	71.7	148	0.2	1.0	0.0																																					
140	139	149	0.215	1.0	0.0	62.8	-54.0	45.4	70.6	140	0.232	1.0	0.0	63.4	-53.1	46.3	70.5	139	0.183	1.0	0.0	0.038	1.0	0.0	57.8	-61.7	37.1	72.1	149	0.183	1.0	0.0																																					
141	140	151	0.198	1.0	0.0	62.3	-54.8	44.4	70.6	141	0.215	1.0	0.0	62.8	-54.0	45.4	70.6	140	0.167	1.0	0.0	0.0	1.0	0.005	56.9	-63.2	35.1	72.4	151	0.167	1.0	0.0																																					
142	141	152	0.18	1.0	0.0	61.7	-55.6	43.5	70.7	142	0.198	1.0	0.0	62.3	-54.8	44.4	70.6	141	0.15	1.0	0.0	0.0	1.0	0.021	56.8	-63.1	33.6	71.6	152	0.15	1.0	0.0																																					
143	142	153	0.163	1.0	0.0	61.2	-56.4	42.6	70.7	143	0.18	1.0	0.0	61.7	-55.6	43.5	70.7	142	0.133	1.0	0.0	0.0	1.0	0.037	56.7	-63.0	32.2	70.9	153	0.133	1.0	0.0																																					
144	143	154	0.146	1.0	0.0	60.7	-57.1	41.6	70.8	144	0.163	1.0	0.0	61.2	-56.4	42.6	70.7	143	0.117	1.0	0.0	0.0	1.0	0.052	56.6	-62.9	30.7	70.1	154	0.117	1.0	0.0																																					
145	144	155	0.128	1.0	0.0	60.1	-57.9	40.6	70.8	145	0.146	1.0	0.0	60.7	-57.1	41.6	70.8	144	0.1	1.0	0.0	0.0	1.0	0.068	56.5	-62.7	29.3	69.3	155	0.1	1.0	0.0																																					
146	145	156	0.107	1.0	0.0	59.5	-58.8	39.7	71.1	146	0.128	1.0	0.0	60.1	-57.9	40.6	70.8	145	0.083	1.0	0.0	0.0	1.0	0.084	56.4	-62.5	27.9	68.6	156	0.083	1.0	0.0																																					
147	146	158	0.084	1.0	0.0	59.0	-59.8	38.9	71.4	147	0.107	1.0	0.0	59.5	-58.8	39.7	71.1	146	0.067	1.0	0.0	0.0	1.0	0.115	56.3	-62.1	25.1	67.0	158	0.067	1.0	0.0																																					
148	147	159	0.061	1.0	0.0	58.4	-60.7	38.0	71.7	148	0.084	1.0	0.0	59.0	-59.8	38.9	71.4	147	0.05	1.0	0.0	0.0	1.0	0.131	56.2	-61.7	23.7	66.2	159	0.05	1.0	0.0																																					
149	148	160	0.038	1.0	0.0	57.8	-61.7	37.1	72.1	149	0.061	1.0	0.0	58.4	-60.7	38.0	71.7	148	0.033	1.0	0.0	0.0	1.0	0.147	56.3	-61.3	22.3	65.3	160	0.033	1.0	0.0																																					
150	149	161	0.015	1.0	0.0	57.3	-62.6	36.2	72.4	150	0.038	1.0	0.0	57.8	-61.7	37.1	72.1	149	0.017	1.0	0.0	0.0	1.0	0.162	56.3	-60.8	21.0	64.4	161	0.017	1.0	0.0																																					
151	150	162	0.0	1.0	0.005	56.9	-63.2	35.1	72.4	151	0.015	1.0	0.0	57.3	-62.6	36.2	72.4	150	0.0	1.0	0.0	0.0	1.0	0.178	56.3	-60.3	19.6	63.5	162	0.0	1.0	0.0	0.0	0.0	0.0																																		
152	151	163	0.0	1.0	0.021	56.8	-63.1	33.6	71.6	152	0.0	1.0	0.005	56.9	-63.2	35.1	72.4	151	0.0	1.0	0.017	0.0	1.0	0.193	56.4	-59.8	18.3	62.6	163	0.0	1.0	0.0	0.017																																				
153	152	164	0.0	1.0	0.037	56.7	-63.0	32.2	70.9	153	0.0	1.0	0.021	56.8	-63.1	33.6	71.6	152	0.0	1.0	0.033	0.0	1.0	0.209	56.4	-59.2	17.0	61.7	164	0.0	1.0	0.0	0.033																																				
154	153	165	0.0	1.0	0.052	56.6	-62.9	30.7	70.1	154	0.0	1.0	0.037	56.7	-63.0																																																						

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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}
166	165	176	0.0	1.0	0.24	56.5	-58.0 14.5	59.9	166	0.0	1.0	0.25	
167	166	177	0.0	1.0	0.255	56.5	-57.5 13.3	59.1	167	0.0	1.0	0.267	
168	167	178	0.0	1.0	0.27	56.5	-57.2 12.2	58.6	168	0.0	1.0	0.283	
169	168	179	0.0	1.0	0.284	56.6	-56.8 11.1	58.0	169	0.0	1.0	0.3	
170	169	180	0.0	1.0	0.298	56.6	-56.5 10.0	57.4	170	0.0	1.0	0.317	
171	170	180	0.0	1.0	0.312	56.6	-56.1 8.9	56.9	171	0.0	1.0	0.333	
172	171	181	0.0	1.0	0.327	56.7	-55.7 7.8	56.3	172	0.0	1.0	0.35	
173	172	182	0.0	1.0	0.341	56.7	-55.2 6.8	55.8	173	0.0	1.0	0.367	
174	173	183	0.0	1.0	0.355	56.7	-54.8 5.8	55.2	174	0.0	1.0	0.383	
175	174	184	0.0	1.0	0.369	56.8	-54.3 4.8	54.6	175	0.0	1.0	0.4	
176	175	185	0.0	1.0	0.384	56.8	-53.8 3.8	54.1	176	0.0	1.0	0.417	
177	176	186	0.0	1.0	0.397	56.9	-53.4 2.8	53.5	177	0.0	1.0	0.433	
178	177	187	0.0	1.0	0.411	57.0	-52.8 1.8	53.0	178	0.0	1.0	0.45	
179	178	188	0.0	1.0	0.425	57.0	-52.3 0.9	52.4	179	0.0	1.0	0.467	
180	179	189	0.0	1.0	0.439	57.1	-51.8 0.0	51.9	180	0.0	1.0	0.483	
181	180	190	0.0	1.0	0.453	57.2	-51.2 -0.8	51.3	181	0.0	1.0	0.5	
182	181	191	0.0	1.0	0.467	57.2	-50.6 -1.7	50.8	182	0.0	1.0	0.517	
183	182	191	0.0	1.0	0.481	57.3	-50.1 -2.5	50.2	183	0.0	1.0	0.533	
184	183	192	0.0	1.0	0.495	57.4	-49.5 -3.4	49.7	184	0.0	1.0	0.55	
185	184	193	0.0	1.0	0.507	57.4	-49.0 -4.2	49.3	185	0.0	1.0	0.567	
186	185	194	0.0	1.0	0.518	57.4	-48.7 -5.0	49.1	186	0.0	1.0	0.583	
187	186	195	0.0	1.0	0.529	57.4	-48.4 -5.8	48.8	187	0.0	1.0	0.6	
188	187	196	0.0	1.0	0.54	57.4	-48.0 -6.7	48.6	188	0.0	1.0	0.617	
189	188	197	0.0	1.0	0.551	57.3	-47.6 -7.5	48.3	189	0.0	1.0	0.633	
190	189	198	0.0	1.0	0.562	57.3	-47.2 -8.2	48.1	190	0.0	1.0	0.65	
191	190	199	0.0	1.0	0.573	57.3	-46.8 -9.0	47.8	191	0.0	1.0	0.667	
192	191	200	0.0	1.0	0.584	57.3	-46.4 -9.8	47.6	192	0.0	1.0	0.683	
193	192	201	0.0	1.0	0.595	57.3	-46.0 -10.5	47.3	193	0.0	1.0	0.7	
194	193	201	0.0	1.0	0.606	57.3	-45.6 -11.3	47.1	194	0.0	1.0	0.717	
195	194	202	0.0	1.0	0.617	57.3	-45.1 -12.0	46.8	195	0.0	1.0	0.733	
196	195	203	0.0	1.0	0.629	57.2	-44.7 -12.8	46.6	196	0.0	1.0	0.75	
197	196	204	0.0	1.0	0.644	57.2	-44.4 -13.5	46.5	197	0.0	1.0	0.767	
198	197	205	0.0	1.0	0.659	57.1	-44.1 -14.3	46.5	198	0.0	1.0	0.783	
199	198	206	0.0	1.0	0.673	57.0	-43.8 -15.0	46.4	199	0.0	1.0	0.8	
200	199	207	0.0	1.0	0.688	56.9	-43.4 -15.7	46.3	200	0.0	1.0	0.817	
201	200	208	0.0	1.0	0.703	56.9	-43.1 -16.5	46.2	201	0.0	1.0	0.833	
202	201	209	0.0	1.0	0.718	56.8	-42.7 -17.2	46.1	202	0.0	1.0	0.85	
203	202	210	0.0	1.0	0.732	56.7	-42.3 -17.9	46.1	203	0.0	1.0	0.867	
204	203	211	0.0	1.0	0.747	56.7	-41.9 -18.6	46.0	204	0.0	1.0	0.883	
205	204	212	0.0	1.0	0.759	56.5	-41.7 -19.4	46.1	205	0.0	1.0	0.9	
206	205	212	0.0	1.0	0.771	56.4	-41.4 -20.2	46.2	206	0.0	1.0	0.917	
207	206	213	0.0	1.0	0.783	56.2	-41.2 -20.9	46.3	207	0.0	1.0	0.933	
208	207	214	0.0	1.0	0.795	56.1	-40.9 -21.7	46.5	208	0.0	1.0	0.95	
209	208	215	0.0	1.0	0.807	55.9	-40.6 -22.5	46.6	209	0.0	1.0	0.967	
210	209	216	0.0	1.0	0.819	55.7	-40.4 -23.3	46.7	210	0.0	1.0	0.983	
211	210	217	0.0	1.0	0.83	55.6	-40.0 -24.0	46.8	211	0.0	1.0	1.0C _s	
													1.0C _e

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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}
211	210	217	0.0	1.0	0.83	55.6	-40.0	-24.0	46.8	211	0.0	0.983	1.0
212	211	218	0.0	1.0	0.842	55.4	-39.7	-24.8	47.0	212	0.0	0.967	1.0
213	212	219	0.0	1.0	0.854	55.3	-39.4	-25.5	47.1	213	0.0	0.95	1.0
214	213	220	0.0	1.0	0.866	55.1	-39.0	-26.3	47.2	214	0.0	0.933	1.0
215	214	221	0.0	1.0	0.877	55.0	-38.7	-27.1	47.4	215	0.0	0.917	1.0
216	215	222	0.0	1.0	0.886	54.7	-38.5	-27.9	47.7	216	0.0	0.9	1.0
217	216	222	0.0	1.0	0.894	54.5	-38.2	-28.8	48.0	217	0.0	0.883	1.0
218	217	223	0.0	1.0	0.903	54.3	-38.0	-29.6	48.3	218	0.0	0.867	1.0
219	218	224	0.0	1.0	0.912	54.1	-37.7	-30.5	48.6	219	0.0	0.85	1.0
220	219	225	0.0	1.0	0.92	53.8	-37.4	-31.3	48.9	220	0.0	0.833	1.0
221	220	226	0.0	1.0	0.929	53.6	-37.0	-32.2	49.2	221	0.0	0.817	1.0
222	221	227	0.0	1.0	0.938	53.4	-36.7	-33.0	49.5	222	0.0	0.8	1.0
223	222	228	0.0	1.0	0.946	53.1	-36.3	-33.9	49.8	223	0.0	0.783	1.0
224	223	229	0.0	1.0	0.955	52.9	-36.0	-34.7	50.1	224	0.0	0.767	1.0
225	224	230	0.0	1.0	0.964	52.7	-35.6	-35.6	50.4	225	0.0	0.75	1.0
226	225	231	0.0	1.0	0.972	52.5	-35.1	-36.4	50.7	226	0.0	0.733	1.0
227	226	232	0.0	1.0	0.981	52.2	-34.7	-37.2	51.0	227	0.0	0.717	1.0
228	227	232	0.0	1.0	0.99	52.0	-34.3	-38.1	51.4	228	0.0	0.7	1.0
229	228	233	0.0	1.0	0.998	51.8	-33.8	-38.9	51.7	229	0.0	0.683	1.0
230	229	234	0.0	0.971	1.0	51.6	-33.3	-39.7	51.9	230	0.0	0.667	1.0
231	230	235	0.0	0.934	1.0	51.3	-32.8	-40.5	52.2	231	0.0	0.65	1.0
232	231	236	0.0	0.898	1.0	51.1	-32.2	-41.3	52.5	232	0.0	0.633	1.0
233	232	237	0.0	0.867	1.0	51.0	-31.6	-42.0	52.7	233	0.0	0.617	1.0
234	233	238	0.0	0.845	1.0	50.9	-31.0	-42.7	52.9	234	0.0	0.6	1.0
235	234	239	0.0	0.823	1.0	50.9	-30.4	-43.4	53.1	235	0.0	0.583	1.0
236	235	240	0.0	0.8	1.0	50.9	-29.7	-44.1	53.3	236	0.0	0.567	1.0
237	236	241	0.0	0.778	1.0	50.9	-29.0	-44.8	53.5	237	0.0	0.55	1.0
238	237	242	0.0	0.756	1.0	50.9	-28.4	-45.5	53.7	238	0.0	0.533	1.0
239	238	243	0.0	0.739	1.0	50.6	-27.6	-45.9	53.7	239	0.0	0.517	1.0
240	239	243	0.0	0.724	1.0	50.3	-26.7	-46.3	53.6	240	0.0	0.5	1.0
241	240	244	0.0	0.709	1.0	50.0	-25.9	-46.7	53.5	241	0.0	0.483	1.0
242	241	245	0.0	0.694	1.0	49.6	-25.0	-47.1	53.5	242	0.0	0.467	1.0
243	242	246	0.0	0.679	1.0	49.3	-24.1	-47.4	53.4	243	0.0	0.45	1.0
244	243	247	0.0	0.664	1.0	48.9	-23.3	-47.8	53.3	244	0.0	0.433	1.0
245	244	248	0.0	0.649	1.0	48.6	-22.4	-48.1	53.2	245	0.0	0.417	1.0
246	245	249	0.0	0.634	1.0	48.2	-21.5	-48.4	53.1	246	0.0	0.4	1.0
247	246	250	0.0	0.618	1.0	47.8	-20.6	-48.6	52.9	247	0.0	0.383	1.0
248	247	251	0.0	0.601	1.0	47.3	-19.6	-48.7	52.6	248	0.0	0.367	1.0
249	248	252	0.0	0.585	1.0	46.7	-18.6	-48.7	52.3	249	0.0	0.35	1.0
250	249	253	0.0	0.568	1.0	46.2	-17.7	-48.7	51.9	250	0.0	0.333	1.0
251	250	253	0.0	0.551	1.0	45.6	-16.7	-48.7	51.6	251	0.0	0.317	1.0
252	251	254	0.0	0.534	1.0	45.1	-15.7	-48.7	51.3	252	0.0	0.3	1.0
253	252	255	0.0	0.518	1.0	44.5	-14.8	-48.6	50.9	253	0.0	0.283	1.0
254	253	256	0.0	0.501	1.0	44.0	-13.9	-48.6	50.6	254	0.0	0.267	1.0
255	254	257	0.0	0.488	1.0	43.5	-13.0	-48.6	50.5	255	0.0	0.25	1.0
256	255	258	0.0	0.475	1.0	43.0	-12.1	-48.7	50.3	256	0.0	0.25	1.0

OE330-7N, Page of series 7/20, RX0, D65, XYZnw=1.8, 1.9, 1.9, 88.0, 93.2, 98.2, LAB*_{nw}=15.0, 0.3, 1.3, 97.3, -0.9, 2.1, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 7/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 7/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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}					
256	255	258	0.0	0.475 1.0	43.0	-12.1 -48.7 50.3	256	0.0	0.488 1.0	43.5	-13.0 -48.6 50.5	255	0.0	0.25	1.0
257	256	259	0.0	0.462 1.0	42.5	-11.2 -48.8 50.2	257	0.0	0.475 1.0	43.0	-12.1 -48.7 50.3	256	0.0	0.233	1.0
258	257	260	0.0	0.45 1.0	41.9	-10.3 -48.8 50.0	258	0.0	0.462 1.0	42.5	-11.2 -48.8 50.2	257	0.0	0.217	1.0
259	258	261	0.0	0.437 1.0	41.4	-9.4 -48.8 49.8	259	0.0	0.45 1.0	41.9	-10.3 -48.8 50.0	258	0.0	0.2	1.0
260	259	262	0.0	0.424 1.0	40.9	-8.5 -48.8 49.7	260	0.0	0.437 1.0	41.4	-9.4 -48.8 49.8	259	0.0	0.183	1.0
261	260	263	0.0	0.411 1.0	40.4	-7.6 -48.8 49.5	261	0.0	0.424 1.0	40.9	-8.5 -48.8 49.7	260	0.0	0.167	1.0
262	261	264	0.0	0.399 1.0	39.9	-6.8 -48.8 49.4	262	0.0	0.411 1.0	40.4	-7.6 -48.8 49.5	261	0.0	0.15	1.0
263	262	264	0.0	0.386 1.0	39.4	-5.9 -48.8 49.2	263	0.0	0.399 1.0	39.9	-6.8 -48.8 49.4	262	0.0	0.133	1.0
264	263	265	0.0	0.373 1.0	38.9	-5.0 -48.7 49.1	264	0.0	0.386 1.0	39.4	-5.9 -48.8 49.2	263	0.0	0.117	1.0
265	264	266	0.0	0.362 1.0	38.4	-4.2 -48.8 49.1	265	0.0	0.373 1.0	38.9	-5.0 -48.7 49.1	264	0.0	0.1	1.0
266	265	267	0.0	0.351 1.0	38.0	-3.3 -48.9 49.1	266	0.0	0.362 1.0	38.4	-4.2 -48.8 49.1	265	0.0	0.083	1.0
267	266	268	0.0	0.34 1.0	37.5	-2.5 -49.0 49.1	267	0.0	0.351 1.0	38.0	-3.3 -48.9 49.1	266	0.0	0.067	1.0
268	267	269	0.0	0.329 1.0	37.0	-1.6 -49.0 49.1	268	0.0	0.34 1.0	37.5	-2.5 -49.0 49.1	267	0.0	0.05	1.0
269	268	270	0.0	0.317 1.0	36.6	-0.8 -49.0 49.1	269	0.0	0.329 1.0	37.0	-1.6 -49.0 49.1	268	0.0	0.033	1.0
270	269	271	0.0	0.306 1.0	36.1	0.0 -49.0 49.1	270	0.0	0.317 1.0	36.6	-0.8 -49.0 49.1	269	0.0	0.017	1.0
271	270	272	0.0	0.295 1.0	35.7	0.9 -49.0 49.1	271	0.0	0.306 1.0	36.1	0.0 -49.0 49.1	270	0.0	0.0	1.0
272	271	273	0.0	0.284 1.0	35.2	1.7 -49.0 49.2	272	0.0	0.295 1.0	35.7	0.9 -49.0 49.1	271	0.017	0.0	1.0
273	272	274	0.0	0.273 1.0	34.8	2.6 -49.0 49.2	273	0.0	0.284 1.0	35.2	1.7 -49.0 49.2	272	0.033	0.0	1.0
274	273	275	0.0	0.261 1.0	34.3	3.4 -48.9 49.2	274	0.0	0.273 1.0	34.8	2.6 -49.0 49.2	273	0.05	0.0	1.0
275	274	276	0.0	0.25 1.0	33.8	4.3 -48.9 49.2	275	0.0	0.261 1.0	34.3	3.4 -48.9 49.2	274	0.067	0.0	1.0
276	275	276	0.0	0.241 1.0	33.8	5.1 -48.7 49.1	276	0.0	0.25 1.0	33.8	4.3 -48.9 49.2	275	0.083	0.0	1.0
277	276	277	0.0	0.231 1.0	33.8	6.0 -48.5 49.0	277	0.0	0.241 1.0	33.8	5.1 -48.7 49.1	276	0.1	0.0	1.0
278	277	278	0.0	0.222 1.0	33.7	6.8 -48.3 48.9	278	0.0	0.231 1.0	33.8	6.0 -48.5 49.0	277	0.117	0.0	1.0
279	278	279	0.0	0.212 1.0	33.7	7.6 -48.1 48.8	279	0.0	0.222 1.0	33.7	6.8 -48.3 48.9	278	0.133	0.0	1.0
280	279	280	0.0	0.203 1.0	33.7	8.5 -47.9 48.7	280	0.0	0.212 1.0	33.7	7.6 -48.1 48.8	279	0.15	0.0	1.0
281	280	281	0.0	0.193 1.0	33.7	9.3 -47.7 48.6	281	0.0	0.203 1.0	33.7	8.5 -47.9 48.7	280	0.167	0.0	1.0
282	281	282	0.0	0.184 1.0	33.6	10.1 -47.4 48.6	282	0.0	0.193 1.0	33.7	9.3 -47.7 48.6	281	0.183	0.0	1.0
283	282	283	0.0	0.174 1.0	33.6	10.9 -47.1 48.5	283	0.0	0.184 1.0	33.6	10.1 -47.4 48.6	282	0.2	0.0	1.0
284	283	284	0.0	0.165 1.0	33.6	11.7 -46.8 48.4	284	0.0	0.174 1.0	33.6	10.9 -47.1 48.5	283	0.217	0.0	1.0
285	284	285	0.0	0.155 1.0	33.5	12.5 -46.6 48.3	285	0.0	0.165 1.0	33.6	11.7 -46.8 48.4	284	0.233	0.0	1.0
286	285	286	0.0	0.146 1.0	33.5	13.3 -46.2 48.2	286	0.0	0.155 1.0	33.5	12.5 -46.6 48.3	285	0.25	0.0	1.0
287	286	287	0.0	0.136 1.0	33.5	14.1 -45.9 48.1	287	0.0	0.146 1.0	33.5	13.3 -46.2 48.2	286	0.267	0.0	1.0
288	287	288	0.0	0.127 1.0	33.4	14.8 -45.6 48.0	288	0.0	0.136 1.0	33.5	14.1 -45.9 48.1	287	0.283	0.0	1.0
289	288	289	0.0	0.116 1.0	33.2	15.7 -45.4 48.1	289	0.0	0.127 1.0	33.4	14.8 -45.6 48.0	288	0.3	0.0	1.0
290	289	290	0.0	0.104 1.0	33.0	16.5 -45.3 48.3	290	0.0	0.116 1.0	33.2	15.7 -45.4 48.1	289	0.317	0.0	1.0
291	290	291	0.0	0.093 1.0	32.8	17.4 -45.1 48.4	291	0.0	0.104 1.0	33.0	16.5 -45.3 48.3	290	0.333	0.0	1.0
292	291	292	0.0	0.081 1.0	32.5	18.2 -44.9 48.6	292	0.0	0.093 1.0	32.8	17.4 -45.1 48.4	291	0.35	0.0	1.0
293	292	293	0.0	0.07 1.0	32.3	19.0 -44.7 48.7	293	0.0	0.081 1.0	32.5	18.2 -44.9 48.6	292	0.367	0.0	1.0
294	293	294	0.0	0.059 1.0	32.0	19.9 -44.5 48.9	294	0.0	0.07 1.0	32.3	19.0 -44.7 48.7	293	0.383	0.0	1.0
295	294	294	0.0	0.047 1.0	31.8	20.7 -44.3 49.0	295	0.0	0.059 1.0	32.0	19.9 -44.5 48.9	294	0.4	0.0	1.0
296	295	295	0.0	0.036 1.0	31.6	21.6 -44.1 49.2	296	0.0	0.047 1.0	31.8	20.7 -44.3 49.0	295	0.417	0.0	1.0
297	296	296	0.0	0.024 1.0	31.3	22.4 -43.8 49.3	297	0.0	0.036 1.0	31.6	21.6 -44.1 49.2	296	0.433	0.0	1.0
298	297	297	0.0	0.013 1.0	31.1	23.2 -43.6 49.5	298	0.0	0.024 1.0	31.3	22.4 -43.8 49.3	297	0.45	0.0	1.0
299	298	298	0.0	0.001 1.0	30.8	24.0 -43.3 49.6	299	0.0	0.013 1.0	31.1	23.2 -43.6 49.5	298	0.467	0.0	1.0
300	299	299	0.013	0.0 1.0	30.8	24.9 -43.0 49.8	300	0.0	0.001 1.0	30.8	24.0 -43.3 49.6	299	0.483	0.0	1.0
301	300	300	0.028	0.0 1.0	30.8	25.8 -42.8 50.0	301	0.013	0.0 1.0	30.8	24.9 -43.0 49.8	300	0.5	0.0	1.0

OE330-7N, Page of series 8/20, RX0, D65, XYZnw=1.8, 1.9, 1.9, 88.0, 93.2, 98.2, LAB*nw=15.0, 0.3, 1.3, 97.3, -0.9, 2.1, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 8/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 8/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d set $rgbcolor$
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.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 with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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}			
301	300	300	0.028	0.0	1.0	30.8	25.8	-42.8	50.0	301	0.013	0.0	1.0	30.8	24.9	-43.0	49.8	300	0.5	0.0	1.0	0.013	0.0	1.0	30.8	24.9	-43.0	49.8	300	0.5	0.0	1.0				
302	301	301	0.042	0.0	1.0	30.7	26.6	-42.5	50.2	302	0.028	0.0	1.0	30.8	25.8	-42.8	50.0	301	0.517	0.0	1.0	0.028	0.0	1.0	30.8	25.8	-42.8	50.0	301	0.517	0.0	1.0				
303	302	302	0.057	0.0	1.0	30.7	27.5	-42.2	50.4	303	0.042	0.0	1.0	30.7	26.6	-42.5	50.2	302	0.533	0.0	1.0	0.042	0.0	1.0	30.7	26.6	-42.5	50.2	302	0.533	0.0	1.0				
304	303	303	0.072	0.0	1.0	30.7	28.3	-41.9	50.7	304	0.057	0.0	1.0	30.7	27.5	-42.2	50.4	303	0.55	0.0	1.0	0.057	0.0	1.0	30.7	27.5	-42.2	50.4	303	0.55	0.0	1.0				
305	304	304	0.086	0.0	1.0	30.7	29.2	-41.6	50.9	305	0.072	0.0	1.0	30.7	28.3	-41.9	50.7	304	0.567	0.0	1.0	0.072	0.0	1.0	30.7	28.3	-41.9	50.7	304	0.567	0.0	1.0				
306	305	305	0.101	0.0	1.0	30.7	30.0	-41.2	51.1	306	0.086	0.0	1.0	30.7	29.2	-41.6	50.9	305	0.583	0.0	1.0	0.086	0.0	1.0	30.7	29.2	-41.6	50.9	305	0.583	0.0	1.0				
307	306	306	0.116	0.0	1.0	30.6	30.9	-40.9	51.3	307	0.101	0.0	1.0	30.7	30.0	-41.2	51.1	306	0.6	0.0	1.0	0.101	0.0	1.0	30.7	30.0	-41.2	51.1	306	0.6	0.0	1.0				
308	307	307	0.13	0.0	1.0	30.6	31.7	-40.5	51.5	308	0.116	0.0	1.0	30.6	30.9	-40.9	51.3	307	0.617	0.0	1.0	0.116	0.0	1.0	30.6	30.9	-40.9	51.3	307	0.617	0.0	1.0				
309	308	308	0.142	0.0	1.0	30.6	32.6	-40.1	51.8	309	0.13	0.0	1.0	30.6	31.7	-40.5	51.5	308	0.633	0.0	1.0	0.13	0.0	1.0	30.6	31.7	-40.5	51.5	308	0.633	0.0	1.0				
310	309	309	0.155	0.0	1.0	30.6	33.4	-39.8	52.0	310	0.142	0.0	1.0	30.6	32.6	-40.1	51.8	309	0.65	0.0	1.0	0.142	0.0	1.0	30.6	32.6	-40.1	51.8	309	0.65	0.0	1.0				
311	310	310	0.168	0.0	1.0	30.6	34.3	-39.4	52.3	311	0.155	0.0	1.0	30.6	33.4	-39.8	52.0	310	0.667	0.0	1.0	0.155	0.0	1.0	30.6	33.4	-39.8	52.0	310	0.667	0.0	1.0				
312	311	311	0.18	0.0	1.0	30.6	35.2	-39.0	52.6	312	0.168	0.0	1.0	30.6	34.3	-39.4	52.3	311	0.683	0.0	1.0	0.168	0.0	1.0	30.6	34.3	-39.4	52.3	311	0.683	0.0	1.0				
313	312	312	0.193	0.0	1.0	30.6	36.0	-38.5	52.8	313	0.18	0.0	1.0	30.6	35.2	-39.0	52.6	312	0.7	0.0	1.0	0.18	0.0	1.0	30.6	35.2	-39.0	52.6	312	0.7	0.0	1.0				
314	313	312	0.206	0.0	1.0	30.6	36.9	-38.1	53.1	314	0.193	0.0	1.0	30.6	36.0	-38.5	52.8	313	0.717	0.0	1.0	0.18	0.0	1.0	30.6	35.2	-39.0	52.6	312	0.717	0.0	1.0				
315	314	313	0.219	0.0	1.0	30.6	37.7	-37.6	53.3	315	0.206	0.0	1.0	30.6	36.9	-38.1	53.1	314	0.733	0.0	1.0	0.193	0.0	1.0	30.6	36.0	-38.5	52.8	313	0.733	0.0	1.0				
316	315	314	0.231	0.0	1.0	30.6	38.6	-37.1	53.6	316	0.219	0.0	1.0	30.6	37.7	-37.6	53.3	315	0.75	0.0	1.0	0.206	0.0	1.0	30.6	36.9	-38.1	53.1	314	0.75	0.0	1.0				
317	316	315	0.244	0.0	1.0	30.5	39.4	-36.6	53.9	317	0.231	0.0	1.0	30.6	38.6	-37.1	53.6	316	0.767	0.0	1.0	0.219	0.0	1.0	30.6	37.7	-37.6	53.3	315	0.767	0.0	1.0				
318	317	316	0.259	0.0	1.0	30.6	40.2	-36.1	54.1	318	0.244	0.0	1.0	30.5	39.4	-36.6	53.9	317	0.783	0.0	1.0	0.231	0.0	1.0	30.6	38.6	-37.1	53.6	316	0.783	0.0	1.0				
319	318	317	0.276	0.0	1.0	30.8	41.1	-35.6	54.4	319	0.259	0.0	1.0	30.6	40.2	-36.1	54.1	318	0.8	0.0	1.0	0.244	0.0	1.0	30.5	39.4	-36.6	53.9	317	0.8	0.0	1.0				
320	319	318	0.292	0.0	1.0	31.0	41.9	-35.1	54.7	320	0.276	0.0	1.0	30.8	41.1	-35.6	54.4	319	0.817	0.0	1.0	0.259	0.0	1.0	30.6	40.2	-36.1	54.1	318	0.817	0.0	1.0				
321	320	319	0.309	0.0	1.0	31.2	42.7	-34.5	55.0	321	0.292	0.0	1.0	31.0	41.9	-35.1	54.7	320	0.833	0.0	1.0	0.276	0.0	1.0	30.8	41.1	-35.6	54.4	319	0.833	0.0	1.0				
322	321	320	0.326	0.0	1.0	31.4	43.6	-33.9	55.3	322	0.309	0.0	1.0	31.2	42.7	-34.5	55.0	321	0.85	0.0	1.0	0.292	0.0	1.0	31.0	41.9	-35.1	54.7	320	0.85	0.0	1.0				
323	322	321	0.342	0.0	1.0	31.6	44.4	-33.3	55.6	323	0.326	0.0	1.0	31.4	43.6	-33.9	55.3	322	0.867	0.0	1.0	0.309	0.0	1.0	31.2	42.7	-34.5	55.0	321	0.867	0.0	1.0				
324	323	322	0.359	0.0	1.0	31.8	45.2	-32.7	55.9	324	0.342	0.0	1.0	31.6	44.4	-33.3	55.6	323	0.883	0.0	1.0	0.326	0.0	1.0	31.4	43.6	-33.9	55.3	322	0.883	0.0	1.0				
325	324	323	0.376	0.0	1.0	32.0	46.0	-32.1	56.2	325	0.359	0.0	1.0	31.8	45.2	-32.7	55.9	324	0.9	0.0	1.0	0.342	0.0	1.0	31.6	44.4	-33.3	55.6	323	0.9	0.0	1.0				
326	325	324	0.404	0.0	1.0	32.6	46.9	-31.5	56.6	326	0.376	0.0	1.0	32.0	46.0	-32.1	56.2	325	0.917	0.0	1.0	0.359	0.0	1.0	31.8	45.2	-32.7	55.9	324	0.917	0.0	1.0				
327	326	325	0.432	0.0	1.0	33.1	47.8	-30.9	57.0	327	0.404	0.0	1.0	32.6	46.9	-31.5	56.6	326	0.933	0.0	1.0	0.376	0.0	1.0	32.0	46.0	-32.1	56.2	325	0.933	0.0	1.0				
328	327	326	0.46	0.0	1.0	33.7	48.7	-30.3	57.4	328	0.432	0.0	1.0	33.1	47.8	-30.9	57.0	327	0.95	0.0	1.0	0.404	0.0	1.0	32.6	46.9	-31.5	56.6	326	0.95	0.0	1.0				
329	328	327	0.488	0.0	1.0	34.2	49.5	-29.7	57.8	329	0.46	0.0	1.0	33.7	48.7	-30.3	57.4	328	0.967	0.0	1.0	0.432	0.0	1.0	33.1	47.8	-30.9	57.0	327	0.967	0.0	1.0				
330	329	328	0.514	0.0	1.0	34.8	50.4	-29.0	58.2	330	0.488	0.0	1.0	34.2	49.5	-29.7	57.8	329	0.983	0.0	1.0	0.46	0.0	1.0	33.7	48.7	-30.3	57.4	328	0.983	0.0	1.0				
331	330	329	0.537	0.0	1.0	35.3	51.3	-28.4	58.7	331	0.514	0.0	1.0	34.8	50.4	-29.0	58.2	330	1.0	0.0	1.0	0.488	0.0	1.0	34.2	49.5	-29.7	57.8	329	1.0	0.0	1.0				
332	331	330	0.56	0.0	1.0	35.8	52.2	-27.7	59.2	332	0.537	0.0	1.0	35.3	51.3	-28.4	58.7	331	1.0	0.0	0.983	0.514	0.0	1.0	34.8	50.4	-29.0	58.2	330	1.0	0.0	0.983				
333	332	331	0.584	0.0	1.0	36.3	53.1	-27.0	59.6	333	0.56	0.0	1.0	35.8	52.2	-27.7	59.2	332	1.0	0.0	0.967	0.537	0.0	1.0	35.3	51.3	-28.4	58.7	331	1.0	0.0	0.967				
334	333	331	0.607	0.0	1.0	36.8	54.0	-26.2	60.1	334	0.584	0.0	1.0	36.3	53.1	-27.0	59.6	333	1.0	0.0	0.95	0.537	0.0	1.0	35.3	51.3	-28.4	58.7	331	1.0	0.0	0.95				
335	334	332	0.63	0.0	1.0	37.3	54.9	-25.5	60.6	335	0.607	0.0	1.0	36.8	54.0	-26.2	60.1	334	1.0	0.0	0.933	0.56	0.0	1.0	35.8	52.2	-27.7	59.2	332	1.0	0.0	0.933				
336	335	333	0.654	0.0	1.0	37.7	56.0	-24.8	61.3	336	0.63	0.0	1.0	37.3	54.9	-25.5	60.6	335	1.0	0.0	0.917	0.584	0.0	1.0	36.3	53.1	-27.0	59.6	333	1.0	0.0	0.917				
337	336	334	0.678	0.0	1.0	38.0	57.0	-24.1	62.0	337	0.654	0.0	1.0	37.7	56.0	-24.8	61.3	336	1.0	0.0	0.9	0.607	0.0	1.0	36.8	54.0	-26.2	60.1	334	1.0	0.0	0.9				
338	337	335	0.702	0.0	1.0	38.4	58.1	-23.4	62.6	338	0.678	0.0	1.0	38.0	57.0	-24.1	62.0	337	1.0	0.0	0.883	0.63	0.0	1.0	37.3	54.9	-25.5	60.6	335	1.0	0.0	0.883				
339	338	336	0.726	0.0	1.0	38.8	59.1	-22.6	63.3	339	0.702	0.0	1.0	38.4	58.1	-23.4	62.6	338	1.0	0.0	0.867	0.654	0.0	1.0	37.7	56.0	-24.8	61.3	336	1.0	0.0	0.867				
340	339	337	0.75	0.0	1.0	39.1	60.2	-21.8	64.0	340	0.726	0.0	1.0	38.8	59.1	-22.6	63.3	339	1.0	0.0	0.85	0.678	0.0	1.0	38.0	57.0	-24.1	62.0	337	1.0	0.0	0.85				
341	340	338	0.778	0.0	1.0	39.7	61.3	-21.0	64.8	341	0.75	0.0	1.0	39.1	60.2	-21.8	64.0	340	1.0	0.0	0.833	0.702	0.0	1.0	38.4	58.1	-23.4	62.6	338	1.0	0.0	0.833				
342	341	339	0.806	0.0	1.0	40.2	62.3	-20.2	65.5	342	0.778	0.0	1.0	39.7	61.3	-21.0	64.8	341	1.0	0.0	0.817															

OE330-7N, Page of series 9/20, RX0, D65, XYZnw=1.8, 1.9, 1.9, 88.0, 93.2, 98.2, LAB*_{nw}=15.0, 0.3, 1.3, 97.3, -0.9, 2.1, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 9/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 9/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d set rgb^*_{color}
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.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 with separation cmyn62*, 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: $h_{ab,d} = 31.8, 99.5, 150.7, 229.2, 299.1, 349.6$; 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* _{da}	rgb* _{ds}	rgb* _{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
346	345	343	0.912	0.0	1.0	42.7	66.8	-16.5	68.8	346	0.888	0.0	1.0	42.0	65.6	-17.5	67.9	345	1.0	0.0	0.75	0.834	0.0	1.0	40.8	63.4	-19.3	66.3	343	1.0	0.0	0.75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
347	346	344	0.936	0.0	1.0	43.4	67.9	-15.6	69.7	347	0.912	0.0	1.0	42.7	66.8	-16.5	68.8	346	1.0	0.0	0.733	0.862	0.0	1.0	41.3	64.5	-18.4	67.1	344	1.0	0.0	0.733																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
348	347	345	0.96	0.0	1.0	44.1	69.1	-14.6	70.6	348	0.936	0.0	1.0	43.4	67.9	-15.6	69.7	347	1.0	0.0	0.717	0.888	0.0	1.0	42.0	65.6	-17.5	67.9	345	1.0	0.0	0.717																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
349	348	346	0.985	0.0	1.0	44.9	70.2	-13.6	71.5	349	0.96	0.0	1.0	44.1	69.1	-14.6	70.6	348	1.0	0.0	0.7	0.912	0.0	1.0	42.7	66.8	-16.5	68.8	346	1.0	0.0	0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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

$LCH^*_d = 92.0 \ 82.1 \ 95.2$

$LAB^*_d = 92.0 \ -7.5 \ 81.7$

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

L=G_d Leaf green

$LCH^*_d = 56.0 \ 66.9 \ 151.8$

$LAB^*_d = 56.0 \ -58.9 \ 31.6$

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

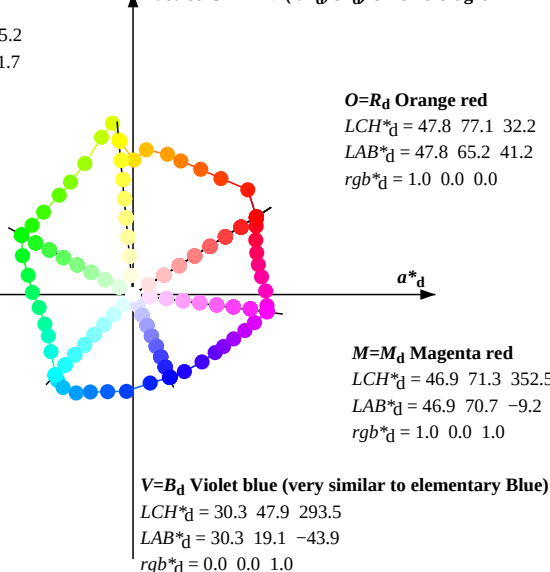
C=C_d Cyan blue

$LCH^*_d = 50.1 \ 59.2 \ 226.0$

$LAB^*_d = 50.1 \ -41.1 \ -42.6$

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

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



O=R_d Orange red

$LCH^*_d = 47.8 \ 77.1 \ 32.2$

$LAB^*_d = 47.8 \ 65.2 \ 41.2$

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

M=M_d Magenta red

$LCH^*_d = 46.9 \ 71.3 \ 352.5$

$LAB^*_d = 46.9 \ 70.7 \ -9.2$

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

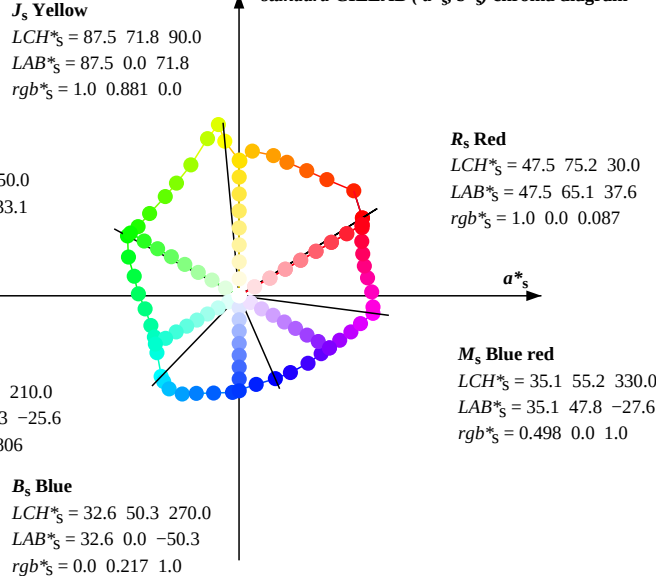
V=B_d Violet blue (very similar to elementary Blue)

$LCH^*_d = 30.3 \ 47.9 \ 293.5$

$LAB^*_d = 30.3 \ 19.1 \ -43.9$

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

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



J_s Yellow

$LCH^*_s = 87.5 \ 71.8 \ 90.0$

$LAB^*_s = 87.5 \ 0.0 \ 71.8$

$rgb^*_s = 1.0 \ 0.881 \ 0.0$

G_s Green

$LCH^*_s = 57.0 \ 66.3 \ 150.0$

$LAB^*_s = 57.0 \ -57.4 \ 33.1$

$rgb^*_s = 0.036 \ 1.0 \ 0.0$

C_s Blue green

$LCH^*_s = 54.6 \ 51.2 \ 210.0$

$LAB^*_s = 54.6 \ -44.3 \ -25.6$

$rgb^*_s = 0.0 \ 1.0 \ 0.806$

B_s Blue

$LCH^*_s = 32.6 \ 50.3 \ 270.0$

$LAB^*_s = 32.6 \ 0.0 \ -50.3$

$rgb^*_s = 0.0 \ 0.217 \ 1.0$

R_s Red

$LCH^*_s = 47.5 \ 75.2 \ 30.0$

$LAB^*_s = 47.5 \ 65.1 \ 37.6$

$rgb^*_s = 1.0 \ 0.0 \ 0.087$

M_s Blue red

$LCH^*_s = 35.1 \ 55.2 \ 330.0$

$LAB^*_s = 35.1 \ 47.8 \ -27.6$

$rgb^*_s = 0.498 \ 0.0 \ 1.0$

J_e Yellow

$LCH^*_e = 89.2 \ 75.7 \ 92.0$

$LAB^*_e = 89.2 \ -2.6 \ 75.6$

$rgb^*_e = 1.0 \ 0.926 \ 0.0$

G_e Green

$LCH^*_e = 55.3 \ 61.2 \ 162.0$

$LAB^*_e = 55.3 \ -58.2 \ 18.9$

$rgb^*_e = 0.0 \ 1.0 \ 0.143$

C_e Blue green

$LCH^*_e = 52.9 \ 54.0 \ 217.0$

$LAB^*_e = 52.9 \ -43.1 \ -32.5$

$rgb^*_e = 0.0 \ 1.0 \ 0.899$

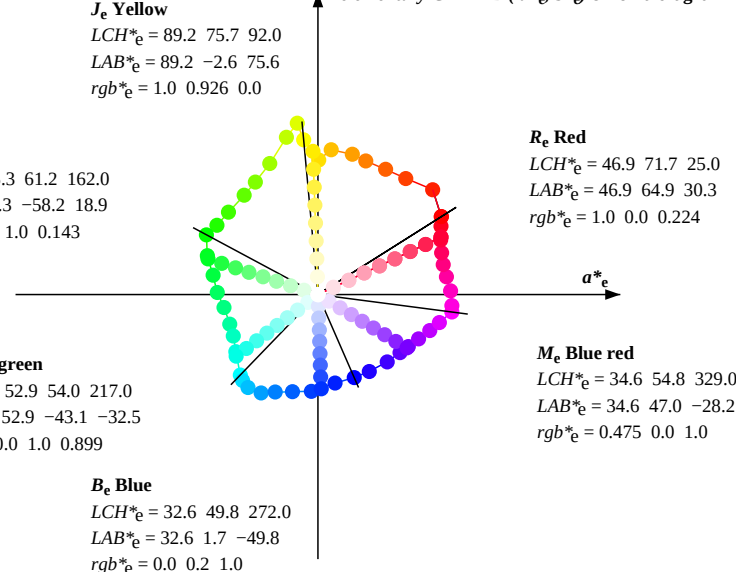
B_e Blue

$LCH^*_e = 32.6 \ 49.8 \ 272.0$

$LAB^*_e = 32.6 \ 1.7 \ -49.8$

$rgb^*_e = 0.0 \ 0.2 \ 1.0$

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



R_e Red

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

$LAB^*_e = 46.9 \ 64.9 \ 30.3$

$rgb^*_e = 1.0 \ 0.0 \ 0.224$

M_e Blue red

$LCH^*_e = 34.6 \ 54.8 \ 329.0$

$LAB^*_e = 34.6 \ 47.0 \ -28.2$

$rgb^*_e = 0.475 \ 0.0 \ 1.0$

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 with separation cmyn62*, D65 and D50 for input or output; Six hue angles of the 60 degree standard colours s: $h_{abs} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours d: $h_{abd} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; Six hue angles of the elementary colours e: $h_{abe} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lab color angles of the device colours (x=LabCh)										Lab color angles of the elementary colours (x=LabCh)										Lab color angles of the device colours (x=LabCh)												
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd50M}	LAB* _{dd50Mx (x=LabCh)}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{ds50M}	LAB* _{ds50Mx (x=LabCh)}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{ds50M}	LAB* _{ds50Mx (x=LabCh)}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{de50M}	LAB* _{de50Mx (x=LabCh)}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{de50M}	LAB* _{de50Mx (x=LabCh)}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{e50M}	LAB* _{e50Mx (x=LabCh)}			
32.3	30.0	25.5	1.0	0.0	0.0	47.9	65.3	41.2	77.2	32.3	1.0	0.0	0.087	47.5	65.2	37.6	75.2	30	1.0	0.0	0.0	1.0	0.0	0.225	46.9	65.0	30.3	71.7	25	1.0	0.0	0.0
42.4	37.5	33.8	1.0	0.125	0.0	54.2	60.7	55.5	82.3	42.4	1.0	0.071	0.0	51.4	63.1	49.3	80.1	38	1.0	0.125	0.0	1.0	0.0021	0.0	49.0	64.7	43.6	78.1	34	1.0	0.125	0.0
52.8	45.0	42.2	1.0	0.25	0.0	61.3	46.6	61.4	77.1	52.8	1.0	0.156	0.0	56.0	57.3	57.3	81.0	45	1.0	0.25	0.0	1.0	0.12	0.0	53.9	61.0	54.9	82.1	42	1.0	0.25	0.0
61.6	52.5	50.5	1.0	0.375	0.0	67.0	35.8	66.2	75.3	61.6	1.0	0.252	0.0	61.5	46.4	61.5	77.1	53	1.0	0.375	0.0	1.0	0.228	0.0	60.1	49.1	60.6	78.0	51	1.0	0.375	0.0
70.3	60.0	58.9	1.0	0.5	0.0	72.6	25.4	70.7	75.1	70.3	1.0	0.352	0.0	66.0	37.8	65.5	75.6	60	1.0	0.5	0.0	1.0	0.338	0.0	65.4	39.0	65.0	75.8	59	1.0	0.5	0.0
76.3	67.5	67.2	1.0	0.625	0.0	76.6	18.1	74.2	76.4	76.3	1.0	0.467	0.0	71.1	28.1	69.7	75.1	68	1.0	0.625	0.0	1.0	0.453	0.0	70.5	29.4	69.2	75.2	67	1.0	0.625	0.0
84.7	75.0	75.6	1.0	0.75	0.0	83.1	7.1	76.6	76.9	84.7	1.0	0.599	0.0	75.8	19.7	73.5	76.1	75	1.0	0.75	0.0	1.0	0.62	0.0	76.5	18.5	74.1	76.4	76	1.0	0.75	0.0
89.7	82.5	84.0	1.0	0.875	0.0	87.3	0.4	71.2	71.2	89.7	1.0	0.724	0.0	81.8	9.4	76.2	76.8	83	1.0	0.875	0.0	1.0	0.739	0.0	82.6	8.0	76.4	76.9	84	1.0	0.875	0.0
95.3	90.0	92.3	1.0	1.0	0.0	92.1	-7.4	81.8	82.1	95.3	1.0	0.882	0.0	87.5	0.0	71.8	71.8	90	1.0	1.0	0.0	1.0	0.927	0.0	89.2	-2.5	75.7	75.7	92	1.0	1.0	0.0
96.9	97.5	101.1	0.875	1.0	0.0	94.0	-10.8	90.7	91.3	96.9	0.843	1.0	0.0	92.6	-12.4	88.8	89.7	98	0.875	1.0	0.0	0.76	1.0	0.0	89.1	-16.2	83.8	85.3	101	0.875	1.0	0.0
101.3	105.0	109.8	0.75	1.0	0.0	88.7	-16.6	83.2	84.9	101.3	0.698	1.0	0.0	85.2	-20.7	77.5	80.3	105	0.75	1.0	0.0	0.627	1.0	0.0	80.4	-25.2	69.5	74.0	110	0.75	1.0	0.0
110.2	112.5	118.5	0.625	1.0	0.0	80.3	-25.3	69.3	73.8	110.2	0.585	1.0	0.0	78.1	-28.0	66.3	72.0	113	0.625	1.0	0.0	0.502	1.0	0.0	73.5	-33.0	59.7	68.3	119	0.625	1.0	0.0
119.1	120.0	127.3	0.5	1.0	0.0	73.4	-33.1	59.6	68.2	119.1	0.485	1.0	0.0	72.8	-33.8	58.8	67.9	120	0.5	1.0	0.0	0.37	1.0	0.0	68.5	-39.3	52.2	65.4	127	0.5	1.0	0.0
126.6	127.5	136.0	0.375	1.0	0.0	68.7	-38.9	52.5	65.4	126.6	0.359	1.0	0.0	68.0	-40.1	51.4	65.3	128	0.375	1.0	0.0	0.266	1.0	0.0	64.0	-46.3	44.8	64.5	136	0.375	1.0	0.0
137.3	135.0	144.7	0.25	1.0	0.0	63.4	-47.2	43.6	64.3	137.3	0.277	1.0	0.0	64.5	-45.6	45.7	64.6	135	0.25	1.0	0.0	0.134	1.0	0.0	59.6	-53.0	37.2	64.8	145	0.25	1.0	0.0
145.6	142.5	153.5	0.125	1.0	0.0	59.3	-53.3	36.6	64.8	145.6	0.164	1.0	0.0	60.6	-51.5	38.9	64.7	143	0.125	1.0	0.0	0.0	1.0	0.017	56.0	-58.9	30.1	66.3	153	0.125	1.0	0.0
151.8	150.0	162.2	0.0	1.0	0.0	56.1	-58.9	31.6	66.9	151.8	0.036	1.0	0.0	57.0	-57.3	33.2	66.3	150	0.0	1.0	0.0	0.0	1.0	0.144	55.4	-58.1	18.9	61.2	162	0.0	1.0	0.0
160.7	157.5	169.1	0.0	1.0	0.125	55.3	-58.5	20.6	62.1	160.7	0.0	1.0	0.087	55.6	-58.8	23.8	63.5	158	0.0	1.0	0.125	0.0	1.0	0.243	55.5	-55.6	10.8	56.8	169	0.0	1.0	0.125
169.5	165.0	175.9	0.0	1.0	0.25	55.5	-55.4	10.3	56.5	169.5	0.0	1.0	0.186	55.4	-57.2	15.4	59.3	165	0.0	1.0	0.25	0.0	1.0	0.337	55.7	-54.0	3.8	54.3	176	0.0	1.0	0.25
178.8	172.5	182.8	0.0	1.0	0.375	55.8	-53.2	1.1	53.3	178.8	0.0	1.0	0.297	55.6	-54.8	6.7	55.3	173	0.0	1.0	0.375	0.0	1.0	0.432	56.0	-51.7	-2.6	51.8	183	0.0	1.0	0.375
187.9	180.0	189.6	0.0	1.0	0.5	56.3	-49.5	-6.8	50.1	187.9	0.0	1.0	0.391	55.8	-52.8	0.0	52.9	180	0.0	1.0	0.5	0.0	1.0	0.525	56.3	-49.1	-8.6	49.9	190	0.0	1.0	0.5
198.6	187.5	196.4	0.0	1.0	0.625	56.1	-46.5	-15.6	49.2	198.6	0.0	1.0	0.501	56.3	-49.5	-6.9	50.1	188	0.0	1.0	0.625	0.0	1.0	0.595	56.2	-47.4	-13.5	49.4	196	0.0	1.0	0.625
206.1	195.0	203.3	0.0	1.0	0.75	55.4	-44.7	-21.8	49.9	206.1	0.0	1.0	0.583	56.2	-47.7	-12.7	49.5	195	0.0	1.0	0.75	0.0	1.0	0.699	55.7	-45.6	-19.3	49.6	203	0.0	1.0	0.75
214.8	202.5	210.1	0.0	1.0	0.875	53.6	-43.3	-30.1	52.8	214.8	0.0	1.0	0.699	55.7	-45.6	-19.3	49.6	203	0.0	1.0	0.875	0.0	1.0	0.806	54.6	-44.2	-25.5	51.2	210	0.0	1.0	0.875
226.0	210.0	217.0	0.0	1.0	1.0	50.1	-41.0	-42.5	59.2	226.0	0.0	1.0	0.806	54.6	-44.2	-25.5	51.2	210	0.0	1.0	1.0	0.0	1.0	0.899	53.0	-43.1	-32.5	54.1	217	0.0	1.0	1.0
228.7	217.5	223.8	0.0	0.875	1.0	49.3	-39.8	-45.3	60.4	228.7	0.0	1.0	0.911	52.6	-43.0	-33.6	54.7	218	0.0	0.875	1.0	0.0	1.0	0.977	50.8	-41.7	-40.2	58.1	224	0.0	0.875	1.0
233.1	225.0	230.7	0.0	0.75	1.0	49.2	-36.9	-49.2	61.6	233.1	0.0	1.0	0.989	50.4	-41.4	-41.4	58.6	225	0.0	0.75	1.0	0.0	0.81	1.0	49.2	-38.3	-47.3	61.0	231	0.0	0.75	1.0
239.9	232.5	237.5	0.0	0.625	1.0	46.4	-30.1	-51.9	60.2	239.9	0.0	0.753	1.0	49.2	-37.0	-49.1	61.6	233	0.0	0.625	1.0	0.0	0.66	1.0	47.2	-32.0	-51.3	60.6	238	0.0	0.625	1.0
246.4	240.0	244.4	0.0	0.5	1.0	42.4	-22.4	-51.6	56.4	246.4	0.0	0.623	1.0	46.3	-30.0	-51.9	60.1	240	0.0	0.5	1.0	0.0	0.547	1.0	43.9	-25.2	-51.8	57.8	244	0.0	0.5	1.0
255.4	247.5	251.2	0.0	0.375	1.0	37.5	-13.3	-51.3	53.2	255.4	0.0	0.478	1.0	41.6	-20.8	-51.6	55.8	248	0.0	0.375	1.0	0.0	0.436	1.0	39.9	-17.7	-51.7	54.7	251	0.0	0.375	1.0
266.1	255.0	258.0	0.0	0.25	1.0	32.6	-3.3	-51.0	51.3	266.1	0.0	0.38	1.0	37.7	-13.7	-51.4	53.3	255	0.0	0.25	1.0	0.0	0.344	1.0	36.3	-10.9	-51.4	52.7	258	0.0	0.25	1.0
280.9	262.5	264.9	0.0	0.125	1.0	32.6	9.0	-46.8	47.7	280.9	0.0	0.286	1.0	34.0	-6.2	-51.3	51.8	263	0.0	0.125	1.0	0.0	0.263	1.0	33.1	-4.4	-51.2	51.5	265	0.0	0.125	1.0
293.6	270.0	271.7	0.0	0.0	1.0	30.3	19.2	-43.8	47.9	293.6	0.0	0.217	1.0	32.6	0.0	-50.2	50.3	270	0.0	0.0	1.0	0.0	0.2	1.0	32.6	1.7	-49.7	49.9	272	0.0	0.0	1.0
303.9	277.5	278.8	0.125	0.0	1.0	30.4	27.3	-40.5	48.9	303.9	0.0	0.15	1.0	32.6	6.7	-47.8	48.4	278	0.125	0.0	1.0	0.0	0.141	1.0	32.6	7.5	-47.5	48.2	279	0.125	0.0	1.0
315.7	285.0	286.0	0.25	0.0	1.0	30.7	36.63																									

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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 0.01	47.8 65.3 40.8 77.0 32	1.0 0.0 0.087 47.5 65.2 37.6 75.2 30	1.0 0.0 0.007 47.5 65.2 37.6 75.2 30	1.0 0.0 0.007 47.5 65.2 37.6 75.2 30	1.0 0.0 0.225 46.9 65.0 30.3 71.7 25	1.0 0.0 0.225 46.9 65.0 30.3 71.7 25	1.0 0.0 0.007 47.5 65.2 37.6 75.2 30			
33	31	27	1.0 0.009 0.0	48.3 65.0 42.2 77.6 33	1.0 0.0 0.049 47.7 65.2 39.2 76.1 31	1.0 0.0 0.017 0.0	1.0 0.0 0.017 0.0	1.0 0.0 0.175 47.1 65.1 33.2 73.0 27	1.0 0.0 0.175 47.1 65.1 33.2 73.0 27	1.0 0.0 0.017 0.0			
34	32	28	1.0 0.021 0.0	49.0 64.7 43.6 78.1 34	1.0 0.0 0.01 47.8 65.3 40.8 77.0 32	1.0 0.0 0.033 0.0	1.0 0.0 0.033 0.0	1.0 0.0 0.15 47.2 65.1 34.6 73.7 28	1.0 0.0 0.15 47.2 65.1 34.6 73.7 28	1.0 0.0 0.033 0.0			
35	33	29	1.0 0.034 0.0	49.6 64.3 45.1 78.6 35	1.0 0.009 0.0	48.3 65.0 42.2 77.6 33	1.0 0.05 0.0	1.0 0.0 0.125 47.3 65.0 36.1 74.4 29	1.0 0.0 0.125 47.3 65.0 36.1 74.4 29	1.0 0.05 0.0			
36	34	30	1.0 0.046 0.0	50.2 64.0 46.5 79.1 36	1.0 0.021 0.0	49.0 64.7 43.6 78.1 34	1.0 0.067 0.0	1.0 0.0 0.087 47.5 65.2 37.6 75.2 30	1.0 0.0 0.087 47.5 65.2 37.6 75.2 30	1.0 0.067 0.0			
37	35	31	1.0 0.058 0.0	50.8 63.5 47.9 79.6 37	1.0 0.034 0.0	49.6 64.3 45.1 78.6 35	1.0 0.083 0.0	1.0 0.0 0.049 47.7 65.2 39.2 76.1 31	1.0 0.0 0.049 47.7 65.2 39.2 76.1 31	1.0 0.083 0.0			
38	36	32	1.0 0.071 0.0	51.4 63.1 49.3 80.1 38	1.0 0.046 0.0	50.2 64.0 46.5 79.1 36	1.0 0.1 0.0	1.0 0.0 0.01 47.8 65.3 40.8 77.0 32	1.0 0.0 0.01 47.8 65.3 40.8 77.0 32	1.0 0.1 0.0			
39	37	33	1.0 0.083 0.0	52.1 62.6 50.7 80.6 39	1.0 0.058 0.0	50.8 63.5 47.9 79.6 37	1.0 0.117 0.0	1.0 0.009 0.0	48.3 65.0 42.2 77.6 33	1.0 0.117 0.0			
40	38	34	1.0 0.095 0.0	52.7 62.1 52.1 81.1 40	1.0 0.071 0.0	51.4 63.1 49.3 80.1 38	1.0 0.133 0.0	1.0 0.021 0.0	49.0 64.7 43.6 78.1 34	1.0 0.133 0.0			
41	39	36	1.0 0.107 0.0	53.3 61.6 53.5 81.6 41	1.0 0.083 0.0	52.1 62.6 50.7 80.6 39	1.0 0.15 0.0	1.0 0.046 0.0	50.2 64.0 46.5 79.1 36	1.0 0.15 0.0			
42	40	37	1.0 0.12 0.0	53.9 61.0 54.9 82.1 42	1.0 0.095 0.0	52.7 62.1 52.1 81.1 40	1.0 0.167 0.0	1.0 0.058 0.0	50.8 63.5 47.9 79.6 37	1.0 0.167 0.0			
43	41	38	1.0 0.132 0.0	54.6 60.0 55.9 82.0 43	1.0 0.107 0.0	53.3 61.6 53.5 81.6 41	1.0 0.183 0.0	1.0 0.071 0.0	51.4 63.1 49.3 80.1 38	1.0 0.183 0.0			
44	42	39	1.0 0.144 0.0	55.3 58.6 56.6 81.5 44	1.0 0.12 0.0	53.9 61.0 54.9 82.1 42	1.0 0.2 0.0	1.0 0.083 0.0	52.1 62.6 50.7 80.6 39	1.0 0.2 0.0			
45	43	40	1.0 0.156 0.0	56.0 57.3 57.3 81.0 45	1.0 0.132 0.0	54.6 60.0 55.9 82.0 43	1.0 0.217 0.0	1.0 0.095 0.0	52.7 62.1 52.1 81.1 40	1.0 0.217 0.0			
46	44	41	1.0 0.168 0.0	56.6 55.9 57.9 80.5 46	1.0 0.144 0.0	55.3 58.6 56.6 81.5 44	1.0 0.233 0.0	1.0 0.107 0.0	53.3 61.6 53.5 81.6 41	1.0 0.233 0.0			
47	45	42	1.0 0.18 0.0	57.3 54.6 58.5 80.0 47	1.0 0.156 0.0	56.0 57.3 57.3 81.0 45	1.0 0.25 0.0	1.0 0.12 0.0	53.9 61.0 54.9 82.1 42	1.0 0.25 0.0			
48	46	43	1.0 0.192 0.0	58.0 53.2 59.1 79.5 48	1.0 0.168 0.0	56.6 55.9 57.9 80.5 46	1.0 0.267 0.0	1.0 0.132 0.0	54.6 60.0 55.9 82.0 43	1.0 0.267 0.0			
49	47	44	1.0 0.204 0.0	58.7 51.8 59.6 79.0 49	1.0 0.18 0.0	57.3 54.6 58.5 80.0 47	1.0 0.283 0.0	1.0 0.144 0.0	55.3 58.6 56.6 81.5 44	1.0 0.283 0.0			
50	48	46	1.0 0.216 0.0	59.4 50.5 60.1 78.5 50	1.0 0.192 0.0	58.0 53.2 59.1 79.5 48	1.0 0.3 0.0	1.0 0.168 0.0	56.6 55.9 57.9 80.5 46	1.0 0.3 0.0			
51	49	47	1.0 0.228 0.0	60.1 49.1 60.6 78.0 51	1.0 0.204 0.0	58.7 51.8 59.6 79.0 49	1.0 0.317 0.0	1.0 0.18 0.0	57.3 54.6 58.5 80.0 47	1.0 0.317 0.0			
52	50	48	1.0 0.24 0.0	60.8 47.7 61.1 77.5 52	1.0 0.216 0.0	59.4 50.5 60.1 78.5 50	1.0 0.333 0.0	1.0 0.192 0.0	58.0 53.2 59.1 79.5 48	1.0 0.333 0.0			
53	51	49	1.0 0.252 0.0	61.5 46.4 61.5 77.1 53	1.0 0.228 0.0	60.1 49.1 60.6 78.0 51	1.0 0.35 0.0	1.0 0.204 0.0	58.7 51.8 59.6 79.0 49	1.0 0.35 0.0			
54	52	50	1.0 0.267 0.0	62.1 45.2 62.2 76.9 54	1.0 0.24 0.0	60.8 47.7 61.1 77.5 52	1.0 0.367 0.0	1.0 0.216 0.0	59.4 50.5 60.1 78.5 50	1.0 0.367 0.0			
55	53	51	1.0 0.281 0.0	62.8 44.0 62.8 76.6 55	1.0 0.252 0.0	61.5 46.4 61.5 77.1 53	1.0 0.383 0.0	1.0 0.228 0.0	60.1 49.1 60.6 78.0 51	1.0 0.383 0.0			
56	54	52	1.0 0.295 0.0	63.4 42.7 63.4 76.4 56	1.0 0.267 0.0	62.1 45.2 62.2 76.9 54	1.0 0.4 0.0	1.0 0.24 0.0	60.8 47.7 61.1 77.5 52	1.0 0.4 0.0			
57	55	53	1.0 0.309 0.0	64.1 41.5 63.9 76.2 57	1.0 0.281 0.0	62.8 44.0 62.8 76.6 55	1.0 0.417 0.0	1.0 0.252 0.0	61.5 46.4 61.5 77.1 53	1.0 0.417 0.0			
58	56	54	1.0 0.324 0.0	64.7 40.3 64.5 76.0 58	1.0 0.295 0.0	63.4 42.7 63.4 76.4 56	1.0 0.433 0.0	1.0 0.267 0.0	62.1 45.2 62.2 76.9 54	1.0 0.433 0.0			
59	57	56	1.0 0.338 0.0	65.4 39.0 65.0 75.8 59	1.0 0.309 0.0	64.1 41.5 63.9 76.2 57	1.0 0.45 0.0	1.0 0.295 0.0	63.4 42.7 63.4 76.4 56	1.0 0.45 0.0			
60	58	57	1.0 0.352 0.0	66.0 37.8 65.5 75.6 60	1.0 0.324 0.0	64.7 40.3 64.5 76.0 58	1.0 0.467 0.0	1.0 0.309 0.0	64.1 41.5 63.9 76.2 57	1.0 0.467 0.0			
61	59	58	1.0 0.367 0.0	66.7 36.6 65.9 75.4 61	1.0 0.338 0.0	65.4 39.0 65.0 75.8 59	1.0 0.483 0.0	1.0 0.324 0.0	64.7 40.3 64.5 76.0 58	1.0 0.483 0.0			
62	60	59	1.0 0.381 0.0	67.3 35.3 66.5 75.3 62	1.0 0.352 0.0	66.0 37.8 65.5 75.6 60	1.0 0.5 0.0	1.0 0.338 0.0	65.4 39.0 65.0 75.8 59	1.0 0.5 0.0			
63	61	60	1.0 0.395 0.0	67.9 34.2 67.0 75.2 63	1.0 0.367 0.0	66.7 36.6 65.9 75.4 61	1.0 0.517 0.0	1.0 0.352 0.0	66.0 37.8 65.5 75.6 60	1.0 0.517 0.0			
64	62	61	1.0 0.41 0.0	68.6 33.0 67.6 75.2 64	1.0 0.381 0.0	67.3 35.3 66.5 75.3 62	1.0 0.533 0.0	1.0 0.367 0.0	66.7 36.6 65.9 75.4 61	1.0 0.533 0.0			
65	63	62	1.0 0.424 0.0	69.2 31.8 68.2 75.2 65	1.0 0.395 0.0	67.9 34.2 67.0 75.2 63	1.0 0.55 0.0	1.0 0.381 0.0	67.3 35.3 66.5 75.3 62	1.0 0.55 0.0			
66	64	63	1.0 0.439 0.0	69.9 30.6 68.7 75.2 66	1.0 0.41 0.0	68.6 33.0 67.6 75.2 64	1.0 0.567 0.0	1.0 0.395 0.0	67.9 34.2 67.0 75.2 63	1.0 0.567 0.0			
67	65	64	1.0 0.453 0.0	70.5 29.4 69.2 75.2 67	1.0 0.424 0.0	69.2 31.8 68.2 75.2 65	1.0 0.583 0.0	1.0 0.41 0.0	68.6 33.0 67.6 75.2 64	1.0 0.583 0.0			
68	66	66	1.0 0.467 0.0	71.1 28.1 69.7 75.1 68	1.0 0.439 0.0	69.9 30.6 68.7 75.2 66	1.0 0.6 0.0	1.0 0.439 0.0	69.9 30.6 68.7 75.2 66	1.0 0.6 0.0			
69	67	67	1.0 0.482 0.0	71.8 26.9 70.1 75.1 69	1.0 0.453 0.0	70.5 29.4 69.2 75.2 67	1.0 0.617 0.0	1.0 0.453 0.0	70.5 29.4 69.2 75.2 67	1.0 0.617 0.0			
70	68	68	1.0 0.496 0.0	72.4 25.7 70.6 75.1 70	1.0 0.467 0.0	71.1 28.1 69.7 75.1 68	1.0 0.633 0.0	1.0 0.467 0.0	71.1 28.1 69.7 75.1 68	1.0 0.633 0.0			
71	69	69	1.0 0.515 0.0	73.1 24.5 71.2 75.3 71	1.0 0.482 0.0	71.8 26.9 70.1 75.1 69	1.0 0.65 0.0	1.0 0.482 0.0	71.8 26.9 70.1 75.1 69	1.0 0.65 0.0			
72	70	70	1.0 0.536 0.0	73.8 23.3 71.8 75.5 72	1.0 0.496 0.0	72.4 25.7 70.6 75.1 70	1.0 0.667 0.0	1.0 0.496 0.0	72.4 25.7 70.6 75.1 70	1.0 0.667 0.0			
73	71	71	1.0 0.557 0.0	74.4 22.1 72.4 75.7 73	1.0 0.515 0.0	73.1 24.5 71.2 75.3 71	1.0 0.683 0.0	1.0 0.515 0.0	73.1 24.5 71.2 75.3 71	1.0 0.683 0.0			
74	72	72	1.0 0.578 0.0	75.1 20.9 73.0 75.9 74	1.0 0.536 0.0	73.8 23.3 71.8 75.5 72	1.0 0.7 0.0	1.0 0.536 0.0	73.8 23.3 71.8 75.5 72	1.0 0.7 0.0			
75	73	73	1.0 0.599 0.0	75.8 19.7 73.5 76.1 75	1.0 0.557 0.0	74.4 22.1 72.4 75.7 73	1.0 0.717 0.0	1.0 0.557 0.0	74.4 22.1 72.4 75.7 73	1.0 0.717 0.0			
76	74	74	1.0 0.62 0.0	76.5 18.5 74.1 76.4 76	1.0 0.578 0.0	75.1 20.9 73.0 75.9 74	1.0 0.733 0.0	1.0 0.578 0.0	75.1 20.9 73.0 75.9 74	1.0 0.733 0.0			
77	75	76	1.0 0.636 0.0	77.2 17.2 74.5 76.5 77	1.0 0.599 0.0	75.8 19.7 73.5 76.1 75	1.0 0.75 0.0	1.0 0.62 0.0	76.5 18.5 74.1 76.4 76	1.0 0.75 0.0			

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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 0.636 0.0	77.2 17.2 74.5 76.5 77	1.0 0.599 0.0	75.8 19.7 73.5 76.1 75	1.0 0.75 0.0	1.0 0.62 0.0	76.5 18.5 74.1 76.4 76	1.0 0.75 0.0			
78	76	77	1.0 0.651 0.0	78.0 15.9 74.8 76.5 78	1.0 0.62 0.0	76.5 18.5 74.1 76.4 76	1.0 0.767 0.0	1.0 0.636 0.0	77.2 17.2 74.5 76.5 77	1.0 0.767 0.0			
79	77	78	1.0 0.665 0.0	78.7 14.6 75.2 76.6 79	1.0 0.636 0.0	77.2 17.2 74.5 76.5 77	1.0 0.783 0.0	1.0 0.651 0.0	78.0 15.9 74.8 76.5 78	1.0 0.783 0.0			
80	78	79	1.0 0.68 0.0	79.5 13.3 75.5 76.6 80	1.0 0.651 0.0	78.0 15.9 74.8 76.5 78	1.0 0.8 0.0	1.0 0.665 0.0	78.7 14.6 75.2 76.6 79	1.0 0.8 0.0			
81	79	80	1.0 0.695 0.0	80.3 12.0 75.7 76.7 81	1.0 0.665 0.0	78.7 14.6 75.2 76.6 79	1.0 0.817 0.0	1.0 0.68 0.0	79.5 13.3 75.5 76.6 80	1.0 0.817 0.0			
82	80	81	1.0 0.71 0.0	81.0 10.7 76.0 76.7 82	1.0 0.68 0.0	79.5 13.3 75.5 76.6 80	1.0 0.833 0.0	1.0 0.695 0.0	80.3 12.0 75.7 76.7 81	1.0 0.833 0.0			
83	81	82	1.0 0.724 0.0	81.8 9.4 76.2 76.8 83	1.0 0.695 0.0	80.3 12.0 75.7 76.7 81	1.0 0.85 0.0	1.0 0.71 0.0	81.0 10.7 76.0 76.7 82	1.0 0.85 0.0			
84	82	83	1.0 0.739 0.0	82.6 8.0 76.4 76.9 84	1.0 0.71 0.0	81.0 10.7 76.0 76.7 82	1.0 0.867 0.0	1.0 0.724 0.0	81.8 9.4 76.2 76.8 83	1.0 0.867 0.0			
85	83	85	1.0 0.757 0.0	83.4 6.7 76.3 76.6 85	1.0 0.724 0.0	81.8 9.4 76.2 76.8 83	1.0 0.883 0.0	1.0 0.757 0.0	83.4 6.7 76.3 76.6 85	1.0 0.883 0.0			
86	84	86	1.0 0.782 0.0	84.2 5.3 75.3 75.5 86	1.0 0.739 0.0	82.6 8.0 76.4 76.9 84	1.0 0.9 0.0	1.0 0.782 0.0	84.2 5.3 75.3 75.5 86	1.0 0.9 0.0			
87	85	87	1.0 0.807 0.0	85.0 3.9 74.2 74.3 87	1.0 0.757 0.0	83.4 6.7 76.3 76.6 85	1.0 0.917 0.0	1.0 0.807 0.0	85.0 3.9 74.2 74.3 87	1.0 0.917 0.0			
88	86	88	1.0 0.832 0.0	85.8 2.6 73.1 73.2 88	1.0 0.782 0.0	84.2 5.3 75.3 75.5 86	1.0 0.933 0.0	1.0 0.832 0.0	85.8 2.6 73.1 73.2 88	1.0 0.933 0.0			
89	87	89	1.0 0.857 0.0	86.7 1.3 72.0 72.0 89	1.0 0.807 0.0	85.0 3.9 74.2 74.3 87	1.0 0.95 0.0	1.0 0.857 0.0	86.7 1.3 72.0 72.0 89	1.0 0.95 0.0			
90	88	90	1.0 0.882 0.0	87.5 0.0 71.8 71.8 90	1.0 0.832 0.0	85.8 2.6 73.1 73.2 88	1.0 0.967 0.0	1.0 0.882 0.0	87.5 0.0 71.8 71.8 90	1.0 0.967 0.0			
91	89	91	1.0 0.904 0.0	88.4 -1.2 73.8 73.8 91	1.0 0.857 0.0	86.7 1.3 72.0 72.0 89	1.0 0.983 0.0	1.0 0.904 0.0	88.4 -1.2 73.8 73.8 91	1.0 0.983 0.0			
92	90	92	1.0 0.927 0.0	89.2 -2.5 75.7 75.7 92	1.0 0.882 0.0	87.5 0.0 71.8 71.8 90	1.0 1.0 0.0	1.0 0.927 0.0	89.2 -2.5 75.7 75.7 92	1.0 1.0 0.0			
93	91	93	1.0 0.949 0.0	90.1 -4.0 77.6 77.7 93	1.0 0.904 0.0	88.4 -1.2 73.8 73.8 91	0.983 1.0 0.0	1.0 0.949 0.0	90.1 -4.0 77.6 77.7 93	0.983 1.0 0.0			
94	92	95	1.0 0.971 0.0	91.0 -5.5 79.4 79.6 94	1.0 0.927 0.0	89.2 -2.5 75.7 75.7 92	0.967 1.0 0.0	1.0 0.994 0.0	91.9 -7.0 81.3 81.6 95	0.967 1.0 0.0			
95	93	96	1.0 0.994 0.0	91.9 -7.0 81.3 81.6 95	1.0 0.949 0.0	90.1 -4.0 77.6 77.7 93	0.95 1.0 0.0	0.943 1.0 0.0	93.0 -8.9 85.9 86.3 96	0.95 1.0 0.0			
96	94	97	0.943 1.0 0.0	93.0 -8.9 85.9 86.3 96	1.0 0.971 0.0	91.0 -5.5 79.4 79.6 94	0.933 1.0 0.0	0.871 1.0 0.0	93.8 -11.0 90.4 91.1 97	0.933 1.0 0.0			
97	95	98	0.871 1.0 0.0	93.8 -11.0 90.4 91.1 97	1.0 0.994 0.0	91.9 -7.0 81.3 81.6 95	0.917 1.0 0.0	0.843 1.0 0.0	92.6 -12.4 88.8 89.7 98	0.917 1.0 0.0			
98	96	99	0.843 1.0 0.0	92.6 -12.4 88.8 89.7 98	0.943 1.0 0.0	93.0 -8.9 85.9 86.3 96	0.9 1.0 0.0	0.815 1.0 0.0	91.4 -13.7 87.1 88.2 99	0.9 1.0 0.0			
99	97	100	0.815 1.0 0.0	91.4 -13.7 87.1 88.2 99	0.871 1.0 0.0	93.8 -11.0 90.4 91.1 97	0.883 1.0 0.0	0.787 1.0 0.0	90.2 -15.0 85.5 86.8 100	0.883 1.0 0.0			
100	98	102	0.787 1.0 0.0	90.2 -15.0 85.5 86.8 100	0.843 1.0 0.0	92.6 -12.4 88.8 89.7 98	0.867 1.0 0.0	0.741 1.0 0.0	88.0 -17.4 82.2 84.0 102	0.867 1.0 0.0			
101	99	103	0.76 1.0 0.0	89.1 -16.2 83.8 85.3 101	0.815 1.0 0.0	91.4 -13.7 87.1 88.2 99	0.85 1.0 0.0	0.727 1.0 0.0	87.1 -18.5 80.7 82.8 103	0.85 1.0 0.0			
102	100	104	0.741 1.0 0.0	88.0 -17.4 82.2 84.0 102	0.787 1.0 0.0	90.2 -15.0 85.5 86.8 100	0.833 1.0 0.0	0.712 1.0 0.0	86.1 -19.6 79.1 81.5 104	0.833 1.0 0.0			
103	101	105	0.727 1.0 0.0	87.1 -18.5 80.7 82.8 103	0.76 1.0 0.0	89.1 -16.2 83.8 85.3 101	0.817 1.0 0.0	0.698 1.0 0.0	85.2 -20.7 77.5 80.3 105	0.817 1.0 0.0			
104	102	106	0.712 1.0 0.0	86.1 -19.6 79.1 81.5 104	0.741 1.0 0.0	88.0 -17.4 82.2 84.0 102	0.8 1.0 0.0	0.684 1.0 0.0	84.2 -21.7 75.9 79.0 106	0.8 1.0 0.0			
105	103	107	0.698 1.0 0.0	85.2 -20.7 77.5 80.3 105	0.727 1.0 0.0	87.1 -18.5 80.7 82.8 103	0.783 1.0 0.0	0.67 1.0 0.0	83.3 -22.6 74.4 77.8 107	0.783 1.0 0.0			
106	104	109	0.684 1.0 0.0	84.2 -21.7 75.9 79.0 106	0.712 1.0 0.0	86.1 -19.6 79.1 81.5 104	0.767 1.0 0.0	0.641 1.0 0.0	81.4 -24.4 71.1 75.2 109	0.767 1.0 0.0			
107	105	110	0.67 1.0 0.0	83.3 -22.6 74.4 77.8 107	0.698 1.0 0.0	85.2 -20.7 77.5 80.3 105	0.75 1.0 0.0	0.627 1.0 0.0	80.4 -25.2 69.5 74.0 110	0.75 1.0 0.0			
108	106	111	0.656 1.0 0.0	82.3 -23.5 72.8 76.5 108	0.684 1.0 0.0	84.2 -21.7 75.9 79.0 106	0.733 1.0 0.0	0.613 1.0 0.0	79.6 -26.2 68.4 73.3 111	0.733 1.0 0.0			
109	107	112	0.641 1.0 0.0	81.4 -24.4 71.1 75.2 109	0.67 1.0 0.0	83.3 -22.6 74.4 77.8 107	0.717 1.0 0.0	0.599 1.0 0.0	78.9 -27.1 67.3 72.6 112	0.717 1.0 0.0			
110	108	113	0.627 1.0 0.0	80.4 -25.2 69.5 74.0 110	0.656 1.0 0.0	82.3 -23.5 72.8 76.5 108	0.7 1.0 0.0	0.585 1.0 0.0	78.1 -28.0 66.3 72.0 113	0.7 1.0 0.0			
111	109	114	0.613 1.0 0.0	79.6 -26.2 68.4 73.3 111	0.641 1.0 0.0	81.4 -24.4 71.1 75.2 109	0.683 1.0 0.0	0.571 1.0 0.0	77.3 -28.9 65.2 71.4 114	0.683 1.0 0.0			
112	110	116	0.599 1.0 0.0	78.9 -27.1 67.3 72.6 112	0.627 1.0 0.0	80.4 -25.2 69.5 74.0 110	0.667 1.0 0.0	0.543 1.0 0.0	75.8 -30.6 63.0 70.1 116	0.667 1.0 0.0			
113	111	117	0.585 1.0 0.0	78.1 -28.0 66.3 72.0 113	0.613 1.0 0.0	79.6 -26.2 68.4 73.3 111	0.65 1.0 0.0	0.529 1.0 0.0	75.0 -31.5 61.9 69.5 117	0.65 1.0 0.0			
114	112	118	0.571 1.0 0.0	77.3 -28.9 65.2 71.4 114	0.599 1.0 0.0	78.9 -27.1 67.3 72.6 112	0.633 1.0 0.0	0.516 1.0 0.0	74.2 -32.2 60.8 68.9 119	0.633 1.0 0.0			
115	113	119	0.557 1.0 0.0	76.5 -29.8 64.1 70.8 115	0.585 1.0 0.0	78.1 -28.0 66.3 72.0 113	0.617 1.0 0.0	0.502 1.0 0.0	73.5 -33.0 59.7 68.3 119	0.617 1.0 0.0			
116	114	120	0.543 1.0 0.0	75.8 -30.6 63.0 70.1 116	0.571 1.0 0.0	77.3 -28.9 65.2 71.4 114	0.6 1.0 0.0	0.485 1.0 0.0	72.8 -33.8 58.8 67.9 120	0.6 1.0 0.0			
117	115	121	0.529 1.0 0.0	75.0 -31.5 61.9 69.5 117	0.557 1.0 0.0	76.5 -29.8 64.1 70.8 115	0.583 1.0 0.0	0.468 1.0 0.0	72.2 -34.7 57.8 67.5 121	0.583 1.0 0.0			
118	116	123	0.516 1.0 0.0	74.2 -32.2 60.8 68.9 118	0.543 1.0 0.0	75.8 -30.6 63.0 70.1 116	0.567 1.0 0.0	0.435 1.0 0.0	70.9 -36.3 56.0 66.8 123	0.567 1.0 0.0			
119	117	124	0.502 1.0 0.0	73.5 -33.0 59.7 68.3 119	0.529 1.0 0.0	75.0 -31.5 61.9 69.5 117	0.55 1.0 0.0	0.418 1.0 0.0	70.3 -37.0 55.0 66.4 124	0.55 1.0 0.0			
120	118	125	0.485 1.0 0.0	72.8 -33.8 58.8 67.9 120	0.516 1.0 0.0	74.2 -32.2 60.8 68.9 118	0.533 1.0 0.0	0.402 1.0 0.0	69.7 -37.8 54.1 66.0 125	0.533 1.0 0.0			
121	119	126	0.468 1.0 0.0	72.2 -34.7 57.8 67.5 121	0.502 1.0 0.0	73.5 -33.0 59.7 68.3 119	0.517 1.0 0.0	0.385 1.0 0.0	69.0 -38.5 53.1 65.6 126	0.517 1.0 0.0			
122	120	127	0.452 1.0 0.0	71.6 -35.5 56.9 67.1 122	0.485 1.0 0.0	72.8 -33.8 58.8 67.9 120	0.5 1.0 0.0	0.37 1.0 0.0	68.5 -39.3 52.2 65.4 127	0.5 1.0 0.0			

OE330-7N, Page of series 14/20, RX0, D50, XYZnw=1.9, 1.9, 1.5, 89.5, 93.2, 74.5, LAB*_{nw}=15.0, 0.5, 1.4, 97.3, -0.6, 2.0, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 14/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 14/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d set rgb^*_{color}
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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^*_s s50M	rgb^*_e de361Mi	LAB^*_e de361Mix (x=LabCh)	rgb^*_e e50M	rgb^*_d dd361Mi	rgb^*_s ds361Mi	rgb^*_e de361Mi
122	120	127	0.452 1.0 0.0	71.6 -35.5 56.9 67.1 122	0.485 1.0 0.0	72.8 -33.8 58.8 67.9 120 0.5 1.0 0.0	0.37 1.0 0.0	68.5 -39.3 52.2 65.4 127 0.5 1.0 0.0	0.37 1.0 0.0	68.5 -39.3 52.2 65.4 127 0.5 1.0 0.0			
123	121	128	0.435 1.0 0.0	70.9 -36.3 56.0 66.8 123	0.468 1.0 0.0	72.2 -34.7 57.8 67.5 121 0.483 1.0 0.0	0.359 1.0 0.0	68.0 -40.1 51.4 65.3 128 0.483 1.0 0.0	0.359 1.0 0.0	68.0 -40.1 51.4 65.3 128 0.483 1.0 0.0			
124	122	130	0.418 1.0 0.0	70.3 -37.0 55.0 66.4 124	0.452 1.0 0.0	71.6 -35.5 56.9 67.1 122 0.467 1.0 0.0	0.335 1.0 0.0	67.0 -41.7 49.9 65.1 130 0.467 1.0 0.0	0.335 1.0 0.0	67.0 -41.7 49.9 65.1 130 0.467 1.0 0.0			
125	123	131	0.402 1.0 0.0	69.7 -37.8 54.1 66.0 125	0.435 1.0 0.0	70.9 -36.3 56.0 66.8 123 0.45 1.0 0.0	0.324 1.0 0.0	66.5 -42.5 49.0 65.0 131 0.45 1.0 0.0	0.324 1.0 0.0	66.5 -42.5 49.0 65.0 131 0.45 1.0 0.0			
126	124	132	0.385 1.0 0.0	69.0 -38.5 53.1 65.6 126	0.418 1.0 0.0	70.3 -37.0 55.0 66.4 124 0.433 1.0 0.0	0.312 1.0 0.0	66.0 -43.3 48.2 64.9 132 0.433 1.0 0.0	0.312 1.0 0.0	66.0 -43.3 48.2 64.9 132 0.433 1.0 0.0			
127	125	133	0.37 1.0 0.0	68.5 -39.3 52.2 65.4 127	0.402 1.0 0.0	69.7 -37.8 54.1 66.0 125 0.417 1.0 0.0	0.3 1.0 0.0	65.5 -44.1 47.4 64.8 133 0.417 1.0 0.0	0.3 1.0 0.0	65.5 -44.1 47.4 64.8 133 0.417 1.0 0.0			
128	126	134	0.359 1.0 0.0	68.0 -40.1 51.4 65.3 128	0.385 1.0 0.0	69.0 -38.5 53.1 65.6 126 0.4 1.0 0.0	0.289 1.0 0.0	65.0 -44.8 46.5 64.7 134 0.4 1.0 0.0	0.289 1.0 0.0	65.0 -44.8 46.5 64.7 134 0.4 1.0 0.0			
129	127	135	0.347 1.0 0.0	67.5 -40.9 50.7 65.2 129	0.37 1.0 0.0	68.5 -39.3 52.2 65.4 127 0.383 1.0 0.0	0.277 1.0 0.0	64.5 -45.6 45.7 64.6 135 0.383 1.0 0.0	0.277 1.0 0.0	64.5 -45.6 45.7 64.6 135 0.383 1.0 0.0			
130	128	137	0.335 1.0 0.0	67.0 -41.7 49.9 65.1 130	0.359 1.0 0.0	68.0 -40.1 51.4 65.3 128 0.367 1.0 0.0	0.254 1.0 0.0	63.5 -47.0 43.9 64.4 137 0.367 1.0 0.0	0.254 1.0 0.0	63.5 -47.0 43.9 64.4 137 0.367 1.0 0.0			
131	129	138	0.324 1.0 0.0	66.5 -42.5 49.0 65.0 131	0.347 1.0 0.0	67.5 -40.9 50.7 65.2 129 0.35 1.0 0.0	0.24 1.0 0.0	63.0 -47.7 43.1 64.4 138 0.35 1.0 0.0	0.24 1.0 0.0	63.0 -47.7 43.1 64.4 138 0.35 1.0 0.0			
132	130	139	0.312 1.0 0.0	66.0 -43.3 48.2 64.9 132	0.335 1.0 0.0	67.0 -41.7 49.9 65.1 130 0.333 1.0 0.0	0.225 1.0 0.0	62.6 -48.5 42.3 64.4 139 0.333 1.0 0.0	0.225 1.0 0.0	62.6 -48.5 42.3 64.4 139 0.333 1.0 0.0			
133	131	140	0.3 1.0 0.0	65.5 -44.1 47.4 64.8 133	0.324 1.0 0.0	66.5 -42.5 49.0 65.0 131 0.317 1.0 0.0	0.21 1.0 0.0	62.1 -49.3 41.5 64.5 140 0.317 1.0 0.0	0.21 1.0 0.0	62.1 -49.3 41.5 64.5 140 0.317 1.0 0.0			
134	132	141	0.289 1.0 0.0	65.0 -44.8 46.5 64.7 134	0.312 1.0 0.0	66.0 -43.3 48.2 64.9 132 0.3 1.0 0.0	0.194 1.0 0.0	61.6 -50.1 40.6 64.5 141 0.3 1.0 0.0	0.194 1.0 0.0	61.6 -50.1 40.6 64.5 141 0.3 1.0 0.0			
135	133	142	0.277 1.0 0.0	64.5 -45.6 45.7 64.6 135	0.3 1.0 0.0	65.5 -44.1 47.4 64.8 133 0.283 1.0 0.0	0.179 1.0 0.0	61.1 -50.8 39.8 64.6 142 0.283 1.0 0.0	0.179 1.0 0.0	61.1 -50.8 39.8 64.6 142 0.283 1.0 0.0			
136	134	144	0.266 1.0 0.0	64.0 -46.3 44.8 64.5 136	0.289 1.0 0.0	65.0 -44.8 46.5 64.7 134 0.267 1.0 0.0	0.149 1.0 0.0	60.1 -52.3 38.0 64.7 144 0.267 1.0 0.0	0.149 1.0 0.0	60.1 -52.3 38.0 64.7 144 0.267 1.0 0.0			
137	135	145	0.254 1.0 0.0	63.5 -47.0 43.9 64.4 137	0.277 1.0 0.0	64.5 -45.6 45.7 64.6 135 0.25 1.0 0.0	0.134 1.0 0.0	59.6 -53.0 37.2 64.8 145 0.25 1.0 0.0	0.134 1.0 0.0	59.6 -53.0 37.2 64.8 145 0.25 1.0 0.0			
138	136	146	0.24 1.0 0.0	63.0 -47.7 43.1 64.4 138	0.266 1.0 0.0	64.0 -46.3 44.8 64.5 136 0.233 1.0 0.0	0.116 1.0 0.0	59.1 -53.7 36.3 64.9 146 0.233 1.0 0.0	0.116 1.0 0.0	59.1 -53.7 36.3 64.9 146 0.233 1.0 0.0			
139	137	147	0.225 1.0 0.0	62.6 -48.5 42.3 64.4 139	0.254 1.0 0.0	63.5 -47.0 43.9 64.4 137 0.217 1.0 0.0	0.096 1.0 0.0	58.6 -54.7 35.6 65.3 147 0.217 1.0 0.0	0.096 1.0 0.0	58.6 -54.7 35.6 65.3 147 0.217 1.0 0.0			
140	138	148	0.21 1.0 0.0	62.1 -49.3 41.5 64.5 140	0.24 1.0 0.0	63.0 -47.7 43.1 64.4 138 0.2 1.0 0.0	0.076 1.0 0.0	58.1 -55.6 34.8 65.6 148 0.2 1.0 0.0	0.076 1.0 0.0	58.1 -55.6 34.8 65.6 148 0.2 1.0 0.0			
141	139	149	0.194 1.0 0.0	61.6 -50.1 40.6 64.5 141	0.225 1.0 0.0	62.6 -48.5 42.3 64.4 139 0.183 1.0 0.0	0.056 1.0 0.0	57.5 -56.4 34.0 66.0 149 0.183 1.0 0.0	0.056 1.0 0.0	57.5 -56.4 34.0 66.0 149 0.183 1.0 0.0			
142	140	151	0.179 1.0 0.0	61.1 -50.8 39.8 64.6 142	0.21 1.0 0.0	62.1 -49.3 41.5 64.5 140 0.167 1.0 0.0	0.016 1.0 0.0	56.5 -58.2 32.3 66.6 151 0.167 1.0 0.0	0.016 1.0 0.0	56.5 -58.2 32.3 66.6 151 0.167 1.0 0.0			
143	141	152	0.164 1.0 0.0	60.6 -51.5 38.9 64.7 143	0.194 1.0 0.0	61.6 -50.1 40.6 64.5 141 0.15 1.0 0.0	0.0 1.0 0.003	56.1 -58.9 31.4 66.8 152 0.15 1.0 0.0	0.0 1.0 0.003	56.1 -58.9 31.4 66.8 152 0.15 1.0 0.0			
144	142	153	0.149 1.0 0.0	60.1 -52.3 38.0 64.7 144	0.179 1.0 0.0	61.1 -50.8 39.8 64.6 142 0.133 1.0 0.0	0.0 1.0 0.017	56.0 -58.9 30.1 66.3 153 0.133 1.0 0.0	0.0 1.0 0.017	56.0 -58.9 30.1 66.3 153 0.133 1.0 0.0			
145	143	154	0.134 1.0 0.0	59.6 -53.0 37.2 64.8 145	0.164 1.0 0.0	60.6 -51.5 38.9 64.7 143 0.117 1.0 0.0	0.0 1.0 0.031	55.9 -59.0 28.8 65.7 154 0.117 1.0 0.0	0.0 1.0 0.031	55.9 -59.0 28.8 65.7 154 0.117 1.0 0.0			
146	144	155	0.116 1.0 0.0	59.1 -53.7 36.3 64.9 146	0.149 1.0 0.0	60.1 -52.3 38.0 64.7 144 0.1 1.0 0.0	0.0 1.0 0.045	55.8 -59.0 27.5 65.2 155 0.1 1.0 0.0	0.0 1.0 0.045	55.8 -59.0 27.5 65.2 155 0.1 1.0 0.0			
147	145	156	0.096 1.0 0.0	58.6 -54.7 35.6 65.3 147	0.134 1.0 0.0	59.6 -53.0 37.2 64.8 145 0.083 1.0 0.0	0.0 1.0 0.059	55.7 -58.9 26.3 64.6 156 0.083 1.0 0.0	0.0 1.0 0.059	55.7 -58.9 26.3 64.6 156 0.083 1.0 0.0			
148	146	158	0.076 1.0 0.0	58.1 -55.6 34.8 65.6 148	0.116 1.0 0.0	59.1 -53.7 36.3 64.9 146 0.067 1.0 0.0	0.0 1.0 0.087	55.6 -58.8 23.8 63.5 158 0.067 1.0 0.0	0.0 1.0 0.087	55.6 -58.8 23.8 63.5 158 0.067 1.0 0.0			
149	147	159	0.056 1.0 0.0	57.5 -56.4 34.0 66.0 149	0.096 1.0 0.0	58.6 -54.7 35.6 65.3 147 0.05 1.0 0.0	0.0 1.0 0.101	55.5 -58.7 22.6 63.0 159 0.05 1.0 0.0	0.0 1.0 0.101	55.5 -58.7 22.6 63.0 159 0.05 1.0 0.0			
150	148	160	0.036 1.0 0.0	57.0 -57.3 33.2 66.3 150	0.076 1.0 0.0	58.1 -55.6 34.8 65.6 148 0.033 1.0 0.0	0.0 1.0 0.116	55.4 -58.6 21.4 62.4 160 0.033 1.0 0.0	0.0 1.0 0.116	55.4 -58.6 21.4 62.4 160 0.033 1.0 0.0			
151	149	161	0.016 1.0 0.0	56.5 -58.2 32.3 66.6 151	0.056 1.0 0.0	57.5 -56.4 34.0 66.0 149 0.017 1.0 0.0	0.0 1.0 0.13	55.3 -58.4 20.1 61.9 161 0.017 1.0 0.0	0.0 1.0 0.13	55.3 -58.4 20.1 61.9 161 0.017 1.0 0.0			
152	150	162	0.0 1.0 0.003	56.1 -58.9 31.4 66.8 152	0.036 1.0 0.0	57.0 -57.3 33.2 66.3 150 0.0 1.0 0.003	0.0 1.0 0.144	55.4 -58.1 18.9 61.2 162 0.0 1.0 0.003	0.0 1.0 0.144	55.4 -58.1 18.9 61.2 162 0.0 1.0 0.003			
153	151	163	0.0 1.0 0.017	56.0 -58.9 30.1 66.3 153	0.016 1.0 0.0	56.5 -58.2 32.3 66.6 151 0.0 1.0 0.017	0.0 1.0 0.158	55.4 -57.8 17.7 60.6 163 0.0 1.0 0.017	0.0 1.0 0.158	55.4 -57.8 17.7 60.6 163 0.0 1.0 0.017			
154	152	164	0.0 1.0 0.031	55.9 -59.0 28.8 65.7 154	0.0 1.0 0.003	56.1 -58.9 31.4 66.8 152 0.0 1.0 0.033	0.0 1.0 0.172	55.4 -57.5 16.5 60.0 164 0.0 1.0 0.033	0.0 1.0 0.172	55.4 -57.5 16.5 60.0 164 0.0 1.0 0.033			
155	153	165	0.0 1.0 0.045	55.8 -59.0 27.5 65.2 155	0.0 1.0 0.017	56.0 -58.9 30.1 66.3 153 0.0 1.0 0.05	0.0 1.0 0.186	55.4 -57.2 15.4 59.3 165 0.0 1.0 0.05	0.0 1.0 0.186	55.4 -57.2 15.4 59.3 165 0.0 1.0 0.05			
156	154	166	0.0 1.0 0.059	55.7 -58.9 26.3 64.6 156	0.0 1.0 0.031	55.9 -59.0 28.8 65.7 154 0.0 1.0 0.067	0.0 1.0 0.2	55.5 -56.8 14.2 58.7 166 0.0 1.0 0.067	0.0 1.0 0.2	55.5 -56.8 14.2 58.7 166 0.0 1.0 0.067			
157	155	167	0.0 1.0 0.073	55.6 -58.9 25.0 64.1 157	0.0 1.0 0.045	55.8 -59.0 27.5 65.2 155 0.0 1.0 0.083	0.0 1.0 0.215	55.5 -56.5 13.1 58.1 167 0.0 1.0 0.083	0.0 1.0 0.215	55.5 -56.5 13.1 58.1 167 0.0 1.0 0.083			
158	156	168	0.0 1.0 0.087	55.6 -58.8 23.8 63.5 158	0.0 1.0 0.059	55.7 -58.9 26.3 64.6 156 0.0 1.0 0.1	0.0 1.0 0.229	55.5 -56.1 11.9 57.4 168 0.0 1.0 0.1	0.0 1.0 0.229	55.5 -56.1 11.9 57.4 168 0.0 1.0 0.1			
159	157	169	0.0 1.0 0.101	55.5 -58.7 22.6 63.0 159	0.0 1.0 0.073	55.6 -58.9 25.0 64.1 157 0.0 1.0 0.117	0.0 1.0 0.243	55.5 -55.6 10.8 56.8 169 0.0 1.0 0.117	0.0 1.0 0.243	55.5 -55.6 10.8 56.8 169 0.0 1.0 0.117			
160	158	170	0.0 1.0 0.116	55.4 -									

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.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 with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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}
167	165	176	0.0	1.0	0.215	55.5	-56.5	13.1	58.1	167	0.0	1.0	0.25
168	166	177	0.0	1.0	0.229	55.5	-56.1	11.9	57.4	168	0.0	1.0	0.267
169	167	178	0.0	1.0	0.243	55.5	-55.6	10.8	56.8	169	0.0	1.0	0.283
170	168	179	0.0	1.0	0.257	55.6	-55.3	9.8	56.3	170	0.0	1.0	0.3
171	169	180	0.0	1.0	0.27	55.6	-55.2	8.8	56.0	171	0.0	1.0	0.317
172	170	180	0.0	1.0	0.283	55.6	-55.0	7.7	55.6	172	0.0	1.0	0.333
173	171	181	0.0	1.0	0.297	55.6	-54.8	6.7	55.3	173	0.0	1.0	0.35
174	172	182	0.0	1.0	0.31	55.6	-54.5	5.7	54.9	174	0.0	1.0	0.367
175	173	183	0.0	1.0	0.324	55.7	-54.3	4.8	54.6	175	0.0	1.0	0.383
176	174	184	0.0	1.0	0.337	55.7	-54.0	3.8	54.3	176	0.0	1.0	0.4
177	175	185	0.0	1.0	0.35	55.7	-53.8	2.8	53.9	177	0.0	1.0	0.417
178	176	186	0.0	1.0	0.364	55.7	-53.5	1.9	53.6	178	0.0	1.0	0.433
179	177	187	0.0	1.0	0.377	55.8	-53.1	0.9	53.3	179	0.0	1.0	0.45
180	178	188	0.0	1.0	0.391	55.8	-52.8	0.0	52.9	180	0.0	1.0	0.467
181	179	189	0.0	1.0	0.405	55.9	-52.4	-0.8	52.5	181	0.0	1.0	0.483
182	180	190	0.0	1.0	0.419	56.0	-52.1	-1.7	52.2	182	0.0	1.0	0.5
183	181	191	0.0	1.0	0.432	56.0	-51.7	-2.6	51.8	183	0.0	1.0	0.517
184	182	191	0.0	1.0	0.446	56.1	-51.2	-3.5	51.5	184	0.0	1.0	0.533
185	183	192	0.0	1.0	0.46	56.2	-50.8	-4.4	51.1	185	0.0	1.0	0.55
186	184	193	0.0	1.0	0.474	56.2	-50.4	-5.2	50.8	186	0.0	1.0	0.567
187	185	194	0.0	1.0	0.488	56.3	-49.9	-6.0	50.4	187	0.0	1.0	0.583
188	186	195	0.0	1.0	0.501	56.3	-49.5	-6.9	50.1	188	0.0	1.0	0.6
189	187	196	0.0	1.0	0.513	56.3	-49.3	-7.7	50.0	189	0.0	1.0	0.617
190	188	197	0.0	1.0	0.525	56.3	-49.1	-8.6	49.9	190	0.0	1.0	0.633
191	189	198	0.0	1.0	0.536	56.3	-48.8	-9.4	49.8	191	0.0	1.0	0.65
192	190	199	0.0	1.0	0.548	56.2	-48.6	-10.2	49.7	192	0.0	1.0	0.667
193	191	200	0.0	1.0	0.56	56.2	-48.3	-11.1	49.7	193	0.0	1.0	0.683
194	192	201	0.0	1.0	0.571	56.2	-48.0	-11.9	49.6	194	0.0	1.0	0.7
195	193	201	0.0	1.0	0.583	56.2	-47.7	-12.7	49.5	195	0.0	1.0	0.717
196	194	202	0.0	1.0	0.595	56.2	-47.4	-13.5	49.4	196	0.0	1.0	0.733
197	195	203	0.0	1.0	0.606	56.1	-47.1	-14.3	49.3	197	0.0	1.0	0.75
198	196	204	0.0	1.0	0.618	56.1	-46.7	-15.1	49.3	198	0.0	1.0	0.767
199	197	205	0.0	1.0	0.632	56.1	-46.5	-15.9	49.2	199	0.0	1.0	0.783
200	198	206	0.0	1.0	0.648	56.0	-46.3	-16.8	49.3	200	0.0	1.0	0.8
201	199	207	0.0	1.0	0.665	55.9	-46.0	-17.6	49.4	201	0.0	1.0	0.817
202	200	208	0.0	1.0	0.682	55.8	-45.8	-18.4	49.5	202	0.0	1.0	0.833
203	201	209	0.0	1.0	0.699	55.7	-45.6	-19.3	49.6	203	0.0	1.0	0.85
204	202	210	0.0	1.0	0.715	55.6	-45.3	-20.1	49.7	204	0.0	1.0	0.867
205	203	211	0.0	1.0	0.732	55.5	-45.0	-20.9	49.8	205	0.0	1.0	0.883
206	204	212	0.0	1.0	0.749	55.4	-44.7	-21.8	49.9	206	0.0	1.0	0.9
207	205	212	0.0	1.0	0.763	55.2	-44.6	-22.7	50.2	207	0.0	1.0	0.917
208	206	213	0.0	1.0	0.778	55.0	-44.5	-23.6	50.5	208	0.0	1.0	0.933
209	207	214	0.0	1.0	0.792	54.8	-44.4	-24.6	50.9	209	0.0	1.0	0.95
210	208	215	0.0	1.0	0.806	54.6	-44.2	-25.5	51.2	210	0.0	1.0	0.967
211	209	216	0.0	1.0	0.821	54.4	-44.1	-26.4	51.5	211	0.0	1.0	0.983
212	210	217	0.0	1.0	0.835	54.2	-43.9	-27.4	51.9	212	0.0	1.0	1.0C _s
											0.0	1.0	1.0C _e

OE330-7N, Page of series 16/20, RX0, D50, XYZnw=1.9, 1.9, 1.5, 89.5, 93.2, 74.5, LAB*_{nw}=15.0, 0.5, 1.4, 97.3, -0.6, 2.0, not adapted

Output: laser printer with separation cmyn62*, D65 and D50, page 16/20

TUB-test chart OE33; 48 and 360 step hue circles, Page 16/20
Data of laser printer HRS16_96, separation cmyn62*, D65 and D50

input: rgb^*_d setrgbcolor
output: $cmyn62^*_d = f_{62}(rgb^*_d)$

TUB registration: 20110301-OE33/OE33L0NP.PDF /.PS
application for measurement of printer or monitor systems

TUB material: code=rha4ta

See original or copy: <http://web.me.com/klaus.richter/OE33/OE33L0NP.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 with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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}			$rgb^*_{dd361Mi}$																
212	210	217	0.0	1.0	0.835	54.2	-43.9	-27.4	51.9	212	0.0	1.0	0.806	54.6	-44.2	-25.5	51.2	210	0.0	1.0	1.0	1.0	1.0	1.0	0.899	53.0	-43.1	-32.5	54.1	217	0.0	1.0	0.835	54.2	-43.9	-27.4	51.9	212					
213	211	218	0.0	1.0	0.849	54.0	-43.7	-28.3	52.2	213	0.0	1.0	0.821	54.4	-44.1	-26.4	51.5	211	0.0	0.983	1.0	0.0	1.0	0.983	1.0	0.0	1.0	0.911	52.6	-43.0	-33.6	54.7	218	0.0	1.0	0.849	54.0	-43.7	-28.3	52.2	213		
214	212	219	0.0	1.0	0.863	53.8	-43.5	-29.3	52.6	214	0.0	1.0	0.835	54.2	-43.9	-27.4	51.9	212	0.0	0.967	1.0	0.0	1.0	0.967	1.0	0.0	1.0	0.922	52.3	-42.8	-34.7	55.2	219	0.0	1.0	0.863	53.8	-43.5	-29.3	52.6	214		
215	213	220	0.0	1.0	0.877	53.6	-43.3	-30.3	52.9	215	0.0	1.0	0.849	54.0	-43.7	-28.3	52.2	213	0.0	0.95	1.0	0.0	1.0	0.95	1.0	0.0	1.0	0.933	52.0	-42.6	-35.8	55.8	220	0.0	1.0	0.877	53.6	-43.3	-30.3	52.9	215		
216	214	221	0.0	1.0	0.888	53.3	-43.2	-31.4	53.5	216	0.0	1.0	0.863	53.8	-43.5	-29.3	52.6	214	0.0	0.933	1.0	0.0	1.0	0.933	1.0	0.0	1.0	0.944	51.7	-42.4	-36.9	56.4	221	0.0	1.0	0.888	53.3	-43.2	-31.4	53.5	216		
217	215	222	0.0	1.0	0.899	53.0	-43.1	-32.5	54.1	217	0.0	1.0	0.877	53.6	-43.3	-30.3	52.9	215	0.0	0.917	1.0	0.0	1.0	0.917	1.0	0.0	1.0	0.955	51.4	-42.2	-38.0	56.9	222	0.0	1.0	0.899	53.0	-43.1	-32.5	54.1	217		
218	216	222	0.0	1.0	0.911	52.6	-43.0	-33.6	54.7	218	0.0	1.0	0.888	53.3	-43.2	-31.4	53.5	216	0.0	0.9	1.0	0.0	1.0	0.9	1.0	0.0	1.0	0.955	51.4	-42.2	-38.0	56.9	222	0.0	1.0	0.911	52.6	-43.0	-33.6	54.7	218		
219	217	223	0.0	1.0	0.922	52.3	-42.8	-34.7	55.2	219	0.0	1.0	0.899	53.0	-43.1	-32.5	54.1	217	0.0	0.883	1.0	0.0	1.0	0.883	1.0	0.0	1.0	0.966	51.1	-42.0	-39.1	57.5	223	0.0	1.0	0.922	52.3	-42.8	-34.7	55.2	219		
220	218	224	0.0	1.0	0.933	52.0	-42.6	-35.8	55.8	220	0.0	1.0	0.911	52.6	-43.0	-33.6	54.7	218	0.0	0.867	1.0	0.0	1.0	0.867	1.0	0.0	1.0	0.977	50.8	-41.7	-40.2	58.1	224	0.0	1.0	0.933	52.0	-42.6	-35.8	55.8	220		
221	219	225	0.0	1.0	0.944	51.7	-42.4	-36.9	56.4	221	0.0	1.0	0.922	52.3	-42.8	-34.7	55.2	219	0.0	0.85	1.0	0.0	1.0	0.85	1.0	0.0	1.0	0.989	50.4	-41.4	-41.4	58.6	225	0.0	1.0	0.944	51.7	-42.4	-36.9	56.4	221		
222	220	226	0.0	1.0	0.955	51.4	-42.2	-38.0	56.9	222	0.0	1.0	0.933	52.0	-42.6	-35.8	55.8	220	0.0	0.833	1.0	0.0	1.0	0.833	1.0	0.0	1.0	1.0	50.1	-41.0	-42.5	59.2	226	0.0	1.0	0.955	51.4	-42.2	-38.0	56.9	222		
223	221	227	0.0	1.0	0.966	51.1	-42.0	-39.1	57.5	223	0.0	1.0	0.944	51.7	-42.4	-36.9	56.4	221	0.0	0.817	1.0	0.0	1.0	0.817	1.0	0.0	1.0	0.954	1.0	49.8	-40.6	-43.5	59.7	227	0.0	1.0	0.966	51.1	-42.0	-39.1	57.5	223	
224	222	228	0.0	1.0	0.977	50.8	-41.7	-40.2	58.1	224	0.0	1.0	0.955	51.4	-42.2	-38.0	56.9	222	0.0	0.8	1.0	0.0	1.0	0.8	1.0	0.0	1.0	0.907	1.0	49.5	-40.1	-44.6	60.1	228	0.0	1.0	0.977	50.8	-41.7	-40.2	58.1	224	
225	223	229	0.0	1.0	0.989	50.4	-41.4	-41.4	58.6	225	0.0	1.0	0.966	51.1	-42.0	-39.1	57.5	223	0.0	0.783	1.0	0.0	1.0	0.783	1.0	0.0	1.0	0.866	1.0	49.3	-39.6	-45.6	60.5	229	0.0	1.0	0.989	50.4	-41.4	-41.4	58.6	225	
226	224	230	0.0	1.0	1.0	50.1	-41.0	-42.5	59.2	226	0.0	1.0	0.977	50.8	-41.7	-40.2	58.1	224	0.0	0.767	1.0	0.0	1.0	0.767	1.0	0.0	1.0	0.838	1.0	49.3	-39.0	-46.5	60.8	230	0.0	1.0	1.0	50.1	-41.0	-42.5	59.2	226	
227	225	231	0.0	0.954	1.0	49.8	-40.6	-43.5	59.7	227	0.0	1.0	0.989	50.4	-41.4	-41.4	58.6	225	0.0	0.75	1.0	0.0	1.0	0.75	1.0	0.0	1.0	0.81	1.0	49.2	-38.3	-47.3	61.0	231	0.0	1.0	0.954	1.0	49.8	-40.6	-43.5	59.7	227
228	226	232	0.0	0.907	1.0	49.5	-40.1	-44.6	60.1	228	0.0	1.0	1.0	50.1	-41.0	-42.5	59.2	226	0.0	0.733	1.0	0.0	1.0	0.733	1.0	0.0	1.0	0.781	1.0	49.2	-37.6	-48.2	61.3	232	0.0	1.0	0.907	1.0	49.5	-40.1	-44.6	60.1	228
229	227	232	0.0	0.866	1.0	49.3	-39.6	-45.6	60.5	229	0.0	0.954	1.0	49.8	-40.6	-43.5	59.7	227	0.0	0.717	1.0	0.0	1.0	0.717	1.0	0.0	1.0	0.781	1.0	49.2	-37.6	-48.2	61.3	232	0.0	1.0	0.866	1.0	49.3	-39.6	-45.6	60.5	229
230	228	233	0.0	0.838	1.0	49.3	-39.0	-46.5	60.8	230	0.0	0.907	1.0	49.5	-40.1	-44.6	60.1	228	0.0	0.7	1.0	0.0	1.0	0.7	1.0	0.0	1.0	0.753	1.0	49.2	-37.0	-49.1	61.6	233	0.0	1.0	0.838	1.0	49.3	-39.0	-46.5	60.8	230
231	229	234	0.0	0.81	1.0	49.2	-38.3	-47.3	61.0	231	0.0	0.866	1.0	49.3	-39.6	-45.6	60.5	229	0.0	0.683	1.0	0.0	1.0	0.683	1.0	0.0	1.0	0.734	1.0	48.8	-36.0	-49.6	61.4	234	0.0	1.0	0.81	1.0	49.2	-38.3	-47.3	61.0	231
232	230	235	0.0	0.781	1.0	49.2	-37.6	-48.2	61.3	232	0.0	0.838	1.0	49.3	-39.0	-46.5	60.8	230	0.0	0.667	1.0	0.0	1.0	0.667	1.0	0.0	1.0	0.715	1.0	48.4	-35.0	-50.0	61.2	235	0.0	1.0	0.781	1.0	49.2	-37.6	-48.2	61.3	232
233	231	236	0.0	0.753	1.0	49.2	-37.0	-49.1	61.6	233	0.0	0.81	1.0	49.2	-38.3	-47.3	61.0	231	0.0	0.65	1.0	0.0	1.0	0.65	1.0	0.0	1.0	0.697	1.0	48.0	-34.0	-50.5	61.0	236	0.0	1.0	0.753	1.0	49.2	-37.0	-49.1	61.6	233
234	232	237	0.0	0.734	1.0	48.8	-36.0	-49.6	61.4	234	0.0	0.781	1.0	49.2	-37.6	-48.2	61.3	232	0.0	0.633	1.0	0.0	1.0	0.633	1.0	0.0	1.0	0.679	1.0	47.6	-33.0	-50.9	60.8	237	0.0	1.0	0.734	1.0	48.8	-36.0	-49.6	61.4	234
235	233	238	0.0	0.715	1.0	48.4	-35.0	-50.0	61.2	235	0.0	0.753	1.0	49.2	-37.0	-49.1	61.6	233	0.0	0.617	1.0	0.0	1.0	0.617	1.0	0.0	1.0	0.66	1.0	47.2	-32.0	-51.3	60.6	238	0.0	1.0	0.715	1.0	48.4	-35.0	-50.0	61.2	235
236	234	239	0.0	0.697	1.0	48.0	-34.0	-50.5	61.0	236	0.0	0.734	1.0	48.8	-36.0	-49.6	61.4	234	0.0	0.6	1.0	0.0	1.0	0.6	1.0	0.0	1.0	0.642	1.0	46.7	-31.0	-51.6	60.3	239	0.0	1.0	0.697	1.0	48.0	-34.0	-50.5	61.0	236
237	235	240	0.0	0.679	1.0	47.6	-33.0	-50.9	60.8	237	0.0	0.715	1.0	48.4	-35.0	-50.0	61.2	235	0.0	0.583	1.0	0.0	1.0	0.583	1.0	0.0	1.0	0.623	1.0	46.3	-30.0	-51.9	60.1	240	0.0	1.0	0.679	1.0	47.6	-33.0	-50.9	60.8	237
238	236	241	0.0	0.66	1.0	47.2	-32.0	-51.3	60.6	238	0.0	0.697	1.0	48.0	-34.0	-50.5	61.0	236	0.0																								

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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}						
257	255	258	0.0	0.356	1.0	36.8	-11.8	-51.4	52.9	257	0.0	0.38	1.0	37.7	-13.7	-51.4	53.3	255	0.0	0.25	1.0		
258	256	259	0.0	0.344	1.0	36.3	-10.9	-51.4	52.7	258	0.0	0.368	1.0	37.3	-12.7	-51.4	53.1	256	0.0	0.233	1.0		
259	257	260	0.0	0.333	1.0	35.9	-9.9	-51.5	52.5	259	0.0	0.356	1.0	36.8	-11.8	-51.4	52.9	257	0.0	0.217	1.0		
260	258	261	0.0	0.321	1.0	35.4	-9.0	-51.5	52.3	260	0.0	0.344	1.0	36.3	-10.9	-51.4	52.7	258	0.0	0.2	1.0		
261	259	262	0.0	0.31	1.0	35.0	-8.1	-51.4	52.2	261	0.0	0.333	1.0	35.9	-9.9	-51.5	52.5	259	0.0	0.183	1.0		
262	260	263	0.0	0.298	1.0	34.5	-7.1	-51.4	52.0	262	0.0	0.321	1.0	35.4	-9.0	-51.5	52.3	260	0.0	0.167	1.0		
263	261	264	0.0	0.286	1.0	34.0	-6.2	-51.3	51.8	263	0.0	0.31	1.0	35.0	-8.1	-51.4	52.2	261	0.0	0.15	1.0		
264	262	264	0.0	0.275	1.0	33.6	-5.3	-51.3	51.6	264	0.0	0.298	1.0	34.5	-7.1	-51.4	52.0	262	0.0	0.133	1.0		
265	263	265	0.0	0.263	1.0	33.1	-4.4	-51.2	51.5	265	0.0	0.286	1.0	34.0	-6.2	-51.3	51.8	263	0.0	0.117	1.0		
266	264	266	0.0	0.252	1.0	32.7	-3.5	-51.1	51.3	266	0.0	0.275	1.0	33.6	-5.3	-51.3	51.6	264	0.0	0.1	1.0		
267	265	267	0.0	0.243	1.0	32.6	-2.6	-50.9	51.1	267	0.0	0.263	1.0	33.1	-4.4	-51.2	51.5	265	0.0	0.083	1.0		
268	266	268	0.0	0.234	1.0	32.6	-1.7	-50.7	50.8	268	0.0	0.252	1.0	32.7	-3.5	-51.1	51.3	266	0.0	0.067	1.0		
269	267	269	0.0	0.226	1.0	32.6	-0.8	-50.5	50.6	269	0.0	0.243	1.0	32.6	-2.6	-50.9	51.1	267	0.0	0.05	1.0		
270	268	270	0.0	0.217	1.0	32.6	0.0	-50.2	50.3	270	0.0	0.234	1.0	32.6	-1.7	-50.7	50.8	268	0.0	0.033	1.0		
271	269	271	0.0	0.209	1.0	32.6	0.9	-50.0	50.1	271	0.0	0.226	1.0	32.6	-0.8	-50.5	50.6	269	0.0	0.017	1.0		
272	270	272	0.0	0.2	1.0	32.6	1.7	-49.7	49.9	272	0.0	0.217	1.0	32.6	0.0	-50.2	50.3	270	0.0	0.0	1.0		
273	271	273	0.0	0.192	1.0	32.6	2.6	-49.5	49.6	273	0.0	0.209	1.0	32.6	0.9	-50.0	50.1	271	0.0	0.017	0.0		
274	272	274	0.0	0.183	1.0	32.6	3.4	-49.2	49.4	274	0.0	0.2	1.0	32.6	1.7	-49.7	49.9	272	0.0	0.033	0.0		
275	273	275	0.0	0.175	1.0	32.6	4.3	-48.9	49.1	275	0.0	0.192	1.0	32.6	2.6	-49.5	49.6	273	0.0	0.05	0.0		
276	274	276	0.0	0.167	1.0	32.6	5.1	-48.5	48.9	276	0.0	0.183	1.0	32.6	3.4	-49.2	49.4	274	0.0	0.067	0.0		
277	275	276	0.0	0.158	1.0	32.6	5.9	-48.2	48.7	277	0.0	0.175	1.0	32.6	4.3	-48.9	49.1	275	0.0	0.083	0.0		
278	276	277	0.0	0.15	1.0	32.6	6.7	-47.8	48.4	278	0.0	0.167	1.0	32.6	5.1	-48.5	48.9	276	0.1	0.0	1.0		
279	277	278	0.0	0.141	1.0	32.6	7.5	-47.5	48.2	279	0.0	0.158	1.0	32.6	5.9	-48.2	48.7	277	0.117	0.0	1.0		
280	278	279	0.0	0.133	1.0	32.6	8.3	-47.1	47.9	280	0.0	0.15	1.0	32.6	6.7	-47.8	48.4	278	0.133	0.0	1.0		
281	279	280	0.0	0.124	1.0	32.6	9.1	-46.7	47.7	281	0.0	0.141	1.0	32.6	7.5	-47.5	48.2	279	0.15	0.0	1.0		
282	280	281	0.0	0.114	1.0	32.4	9.9	-46.6	47.7	282	0.0	0.133	1.0	32.6	8.3	-47.1	47.9	280	0.167	0.0	1.0		
283	281	282	0.0	0.104	1.0	32.2	10.7	-46.4	47.8	283	0.0	0.124	1.0	32.6	9.1	-46.7	47.7	281	0.183	0.0	1.0		
284	282	283	0.0	0.095	1.0	32.0	11.6	-46.3	47.8	284	0.0	0.114	1.0	32.4	9.9	-46.6	47.7	282	0.2	0.0	1.0		
285	283	284	0.0	0.085	1.0	31.9	12.4	-46.1	47.8	285	0.0	0.104	1.0	32.2	10.7	-46.4	47.8	283	0.217	0.0	1.0		
286	284	285	0.0	0.075	1.0	31.7	13.2	-45.9	47.8	286	0.0	0.095	1.0	32.0	11.6	-46.3	47.8	284	0.233	0.0	1.0		
287	285	286	0.0	0.065	1.0	31.5	14.0	-45.6	47.8	287	0.0	0.085	1.0	31.9	12.4	-46.1	47.8	285	0.25	0.0	1.0		
288	286	287	0.0	0.055	1.0	31.3	14.8	-45.4	47.8	288	0.0	0.075	1.0	31.7	13.2	-45.9	47.8	286	0.267	0.0	1.0		
289	287	288	0.0	0.045	1.0	31.1	15.6	-45.1	47.9	289	0.0	0.065	1.0	31.5	14.0	-45.6	47.8	287	0.283	0.0	1.0		
290	288	289	0.0	0.035	1.0	31.0	16.4	-44.9	47.9	290	0.0	0.055	1.0	31.3	14.8	-45.4	47.8	288	0.3	0.0	1.0		
291	289	290	0.0	0.026	1.0	30.8	17.2	-44.6	47.9	291	0.0	0.045	1.0	31.1	15.6	-45.1	47.9	289	0.317	0.0	1.0		
292	290	291	0.0	0.016	1.0	30.6	17.9	-44.3	47.9	292	0.0	0.035	1.0	31.0	16.4	-44.9	47.9	290	0.333	0.0	1.0		
293	291	292	0.0	0.006	1.0	30.4	18.7	-44.0	47.9	293	0.0	0.026	1.0	30.8	17.2	-44.6	47.9	291	0.35	0.0	1.0		
294	292	293	0.005	0.0	1.0	30.3	19.5	-43.7	48.0	294	0.0	0.016	1.0	30.6	17.9	-44.3	47.9	292	0.367	0.0	1.0		
295	293	294	0.017	0.0	1.0	30.3	20.3	-43.5	48.1	295	0.0	0.006	1.0	30.4	18.7	-44.0	47.9	293	0.383	0.0	1.0		
296	294	294	0.029	0.0	1.0	30.3	21.1	-43.2	48.2	296	0.005	0.0	1.0	30.3	19.5	-43.7	48.0	294	0.4	0.0	1.0		
297	295	295	0.042	0.0	1.0	30.3	21.9	-42.9	48.3	297	0.017	0.0	1.0	30.3	20.3	-43.5	48.1	295	0.417	0.0	1.0		
298	296	296	0.054	0.0	1.0	30.4	22.7	-42.6	48.4	298	0.029	0.0	1.0	30.3	21.1	-43.2	48.2	296	0.433	0.0	1.0		
299	297	297	0.066	0.0	1.0	30.4	23.5	-42.3	48.5	299	0.042	0.0	1.0	30.3	21.9	-42.9	48.3	297	0.45	0.0	1.0		
300	298	298	0.078	0.0	1.0	30.4	24.3	-41.9	48.6	300	0.054	0.0	1.0	30.4	22.7	-42.6	48.4	298	0.467	0.0	1.0		
301	299	299	0.09	0.0	1.0	30.4	25.1	-41.6	48.7	301	0.066	0.0	1.0	30.4	23.5	-42.3	48.5	299	0.483	0.0	1.0		
302	300	300	0.102	0.0	1.0	30.4	25.8	-41.2	48.7	302	0.078	0.0	1.0	30.4	24.3	-41.9	48.6	300	0.5	0.0	1.0		

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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}			
302	300	300	0.102	0.0	1.0	30.4	25.8	-41.2	48.7	302	0.078	0.0	1.0	30.4	24.3	-41.9	48.6	300	0.5	0.0	1.0	0.078	0.0	1.0	30.4	24.3	-41.9	48.6	300	0.5	0.0	1.0		
303	301	301	0.115	0.0	1.0	30.4	26.6	-40.9	48.8	303	0.09	0.0	1.0	30.4	25.1	-41.6	48.7	301	0.517	0.0	1.0	0.09	0.0	1.0	30.4	25.1	-41.6	48.7	301	0.517	0.0	1.0		
304	302	302	0.127	0.0	1.0	30.4	27.4	-40.5	49.0	304	0.102	0.0	1.0	30.4	25.8	-41.2	48.7	302	0.533	0.0	1.0	0.102	0.0	1.0	30.4	25.8	-41.2	48.7	302	0.533	0.0	1.0		
305	303	303	0.137	0.0	1.0	30.5	28.2	-40.1	49.1	305	0.115	0.0	1.0	30.4	26.6	-40.9	48.8	303	0.55	0.0	1.0	0.115	0.0	1.0	30.4	26.6	-40.9	48.8	303	0.55	0.0	1.0		
306	304	304	0.148	0.0	1.0	30.5	29.0	-39.8	49.3	306	0.127	0.0	1.0	30.4	27.4	-40.5	49.0	304	0.567	0.0	1.0	0.127	0.0	1.0	30.4	27.4	-40.5	49.0	304	0.567	0.0	1.0		
307	305	305	0.158	0.0	1.0	30.5	29.8	-39.4	49.5	307	0.137	0.0	1.0	30.5	28.2	-40.1	49.1	305	0.583	0.0	1.0	0.137	0.0	1.0	30.5	28.2	-40.1	49.1	305	0.583	0.0	1.0		
308	306	306	0.169	0.0	1.0	30.5	30.6	-39.0	49.7	308	0.148	0.0	1.0	30.5	29.0	-39.8	49.3	306	0.6	0.0	1.0	0.148	0.0	1.0	30.5	29.0	-39.8	49.3	306	0.6	0.0	1.0		
309	307	307	0.179	0.0	1.0	30.6	31.4	-38.6	49.8	309	0.158	0.0	1.0	30.5	29.8	-39.4	49.5	307	0.617	0.0	1.0	0.158	0.0	1.0	30.5	29.8	-39.4	49.5	307	0.617	0.0	1.0		
310	308	308	0.19	0.0	1.0	30.6	32.2	-38.2	50.0	310	0.169	0.0	1.0	30.5	30.6	-39.0	49.7	308	0.633	0.0	1.0	0.169	0.0	1.0	30.5	30.6	-39.0	49.7	308	0.633	0.0	1.0		
311	309	309	0.2	0.0	1.0	30.6	32.9	-37.8	50.2	311	0.179	0.0	1.0	30.6	31.4	-38.6	49.8	309	0.65	0.0	1.0	0.179	0.0	1.0	30.6	31.4	-38.6	49.8	309	0.65	0.0	1.0		
312	310	310	0.211	0.0	1.0	30.6	33.7	-37.3	50.4	312	0.19	0.0	1.0	30.6	32.2	-38.2	50.0	310	0.667	0.0	1.0	0.19	0.0	1.0	30.6	32.2	-38.2	50.0	310	0.667	0.0	1.0		
313	311	311	0.221	0.0	1.0	30.7	34.5	-36.9	50.5	313	0.2	0.0	1.0	30.6	32.9	-37.8	50.2	311	0.683	0.0	1.0	0.2	0.0	1.0	30.6	32.9	-37.8	50.2	311	0.683	0.0	1.0		
314	312	312	0.232	0.0	1.0	30.7	35.2	-36.4	50.7	314	0.211	0.0	1.0	30.6	33.7	-37.3	50.4	312	0.7	0.0	1.0	0.211	0.0	1.0	30.6	33.7	-37.3	50.4	312	0.7	0.0	1.0		
315	313	312	0.242	0.0	1.0	30.7	36.0	-35.9	50.9	315	0.221	0.0	1.0	30.7	34.5	-36.9	50.5	313	0.717	0.0	1.0	0.211	0.0	1.0	30.6	33.7	-37.3	50.4	313	0.717	0.0	1.0		
316	314	313	0.254	0.0	1.0	30.8	36.8	-35.4	51.1	316	0.232	0.0	1.0	30.7	35.2	-36.4	50.7	314	0.733	0.0	1.0	0.221	0.0	1.0	30.7	34.5	-36.9	50.5	313	0.733	0.0	1.0		
317	315	314	0.267	0.0	1.0	31.0	37.5	-34.9	51.3	317	0.242	0.0	1.0	30.7	36.0	-35.9	50.9	315	0.75	0.0	1.0	0.232	0.0	1.0	30.7	35.2	-36.4	50.7	314	0.75	0.0	1.0		
318	316	315	0.281	0.0	1.0	31.2	38.3	-34.4	51.6	318	0.254	0.0	1.0	30.8	36.8	-35.4	51.1	316	0.767	0.0	1.0	0.242	0.0	1.0	30.7	36.0	-35.9	50.9	315	0.767	0.0	1.0		
319	317	316	0.295	0.0	1.0	31.4	39.1	-33.9	51.8	319	0.267	0.0	1.0	31.0	37.5	-34.9	51.3	317	0.783	0.0	1.0	0.254	0.0	1.0	30.8	36.8	-35.4	51.1	316	0.783	0.0	1.0		
320	318	317	0.309	0.0	1.0	31.6	39.9	-33.4	52.1	320	0.281	0.0	1.0	31.2	38.3	-34.4	51.6	318	0.8	0.0	1.0	0.267	0.0	1.0	31.0	37.5	-34.9	51.3	317	0.8	0.0	1.0		
321	319	318	0.323	0.0	1.0	31.8	40.7	-32.8	52.3	321	0.295	0.0	1.0	31.4	39.1	-33.9	51.8	319	0.817	0.0	1.0	0.281	0.0	1.0	31.2	38.3	-34.4	51.6	318	0.817	0.0	1.0		
322	320	319	0.337	0.0	1.0	32.0	41.4	-32.3	52.6	322	0.309	0.0	1.0	31.6	39.9	-33.4	52.1	320	0.833	0.0	1.0	0.295	0.0	1.0	31.4	39.1	-33.9	51.8	319	0.833	0.0	1.0		
323	321	320	0.351	0.0	1.0	32.2	42.2	-31.7	52.8	323	0.323	0.0	1.0	31.8	40.7	-32.8	52.3	321	0.85	0.0	1.0	0.309	0.0	1.0	31.6	39.9	-33.4	52.1	320	0.85	0.0	1.0		
324	322	321	0.364	0.0	1.0	32.4	42.9	-31.1	53.0	324	0.337	0.0	1.0	32.0	41.4	-32.3	52.6	322	0.867	0.0	1.0	0.323	0.0	1.0	31.8	40.7	-32.8	52.3	321	0.867	0.0	1.0		
325	323	322	0.381	0.0	1.0	32.6	43.7	-30.5	53.3	325	0.351	0.0	1.0	32.2	42.2	-31.7	52.8	323	0.883	0.0	1.0	0.337	0.0	1.0	32.0	41.4	-32.3	52.6	322	0.883	0.0	1.0		
326	324	323	0.404	0.0	1.0	33.1	44.5	-29.9	53.7	326	0.364	0.0	1.0	32.4	42.9	-31.1	53.0	324	0.9	0.0	1.0	0.351	0.0	1.0	32.2	42.2	-31.7	52.8	323	0.9	0.0	1.0		
327	325	324	0.428	0.0	1.0	33.6	45.4	-29.4	54.1	327	0.381	0.0	1.0	32.6	43.7	-30.5	53.3	325	0.917	0.0	1.0	0.364	0.0	1.0	32.4	42.9	-31.1	53.0	324	0.917	0.0	1.0		
328	326	325	0.452	0.0	1.0	34.1	46.2	-28.8	54.5	328	0.404	0.0	1.0	33.1	44.5	-29.9	53.7	326	0.933	0.0	1.0	0.381	0.0	1.0	32.6	43.7	-30.5	53.3	325	0.933	0.0	1.0		
329	327	326	0.475	0.0	1.0	34.6	47.0	-28.2	54.9	329	0.428	0.0	1.0	33.6	45.4	-29.4	54.1	327	0.95	0.0	1.0	0.404	0.0	1.0	33.1	44.5	-29.9	53.7	326	0.95	0.0	1.0		
330	328	327	0.499	0.0	1.0	35.1	47.9	-27.5	55.3	330	0.452	0.0	1.0	34.1	46.2	-28.8	54.5	328	0.967	0.0	1.0	0.428	0.0	1.0	33.6	45.4	-29.4	54.1	327	0.967	0.0	1.0		
331	329	328	0.519	0.0	1.0	35.6	48.7	-26.9	55.7	331	0.475	0.0	1.0	34.6	47.0	-28.2	54.9	329	0.983	0.0	1.0	0.452	0.0	1.0	34.1	46.2	-28.8	54.5	328	0.983	0.0	1.0		
332	330	329	0.539	0.0	1.0	36.1	49.6	-26.3	56.2	332	0.499	0.0	1.0	35.1	47.9	-27.5	55.3	330	1.0	0.0	1.0M _s	0.475	0.0	1.0	34.6	47.0	-28.2	54.9	329	1.0	0.0	1.0M _e		
333	331	330	0.559	0.0	1.0	36.6	50.5	-25.6	56.7	333	0.519	0.0	1.0	35.6	48.7	-26.9	55.7	331	1.0	0.0	0.983	0.499	0.0	1.0	35.1	47.9	-27.5	55.3	330	1.0	0.0	0.983		
334	332	331	0.58	0.0	1.0	37.1	51.3	-24.9	57.1	334	0.539	0.0	1.0	36.1	49.6	-26.3	56.2	332	1.0	0.0	0.967	0.519	0.0	1.0	35.6	48.7	-26.9	55.7	331	1.0	0.0	0.967		
335	333	331	0.6	0.0	1.0	37.5	52.2	-24.2	57.6	335	0.559	0.0	1.0	36.6	50.5	-25.6	56.7	333	1.0	0.0	0.95	0.519	0.0	1.0	35.6	48.7	-26.9	55.7	331	1.0	0.0	0.95		
336	334	332	0.62	0.0	1.0	38.0	53.0	-23.5	58.0	336	0.58	0.0	1.0	37.1	51.3	-24.9	57.1	334	1.0	0.0	0.933	0.539	0.0	1.0	36.1	49.6	-26.3	56.2	332	1.0	0.0	0.933		
337	335	333	0.641	0.0	1.0	38.4	54.0	-22.8	58.7	337	0.6	0.0	1.0	37.5	52.2	-24.2	57.6	335	1.0	0.0	0.917	0.559	0.0	1.0	36.6	50.5	-25.6							

Data of Maximum color M in colorimetric system laser printer with separation cmyn62*, 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: $h_{ab,d} = 32.3, 95.3, 151.8, 226.0, 293.6, 352.6$; 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}
347	345	343	0.874	0.0	1.0	43.0	64.3	-14.7	66.0	347	0.823	0.0	1.0	41.9	62.2	-16.6	64.4	345	1.0	0.0	0.75	0.772	0.0	1.0	40.8	60.1	-18.3	62.8	343	1.0	0.0	0.75																																					
348	346	344	0.897	0.0	1.0	43.7	65.5	-13.8	66.9	348	0.848	0.0	1.0	42.4	63.2	-15.7	65.2	346	1.0	0.0	0.733	0.798	0.0	1.0	41.3	61.1	-17.4	63.6	344	1.0	0.0	0.733																																					
349	347	345	0.919	0.0	1.0	44.4	66.7	-12.9	67.9	349	0.874	0.0	1.0	43.0	64.3	-14.7	66.0	347	1.0	0.0	0.717	0.823	0.0	1.0	41.9	62.2	-16.6	64.4	345	1.0	0.0	0.717																																					
350	348	346	0.942	0.0	1.0	45.1	67.8	-11.9	68.9	350	0.897	0.0	1.0	43.7	65.5	-13.8	66.9	348	1.0	0.0	0.7	0.848	0.0	1.0	42.4	63.2	-15.7	65.2	346	1.0	0.0	0.7																																					
351	349	347	0.964	0.0	1.0	45.9	69.0	-10.8	69.8	351	0.919	0.0	1.0	44.4	66.7	-12.9	67.9	349	1.0	0.0	0.683	0.874	0.0	1.0	43.0	64.3	-14.7	66.0	347	1.0	0.0	0.683																																					
352	350	348	0.987	0.0	1.0	46.6	70.1	-9.8	70.8	352	0.942	0.0	1.0	45.1	67.8	-11.9	68.9	350	1.0	0.0	0.667	0.897	0.0	1.0	43.7	65.5	-13.8	66.9	348	1.0	0.0	0.667																																					
353	351	349	1.0	0.0	0.98	46.9	70.8	-8.6	71.3	353	0.964	0.0	1.0	45.9	69.0	-10.8	69.8	351	1.0	0.0	0.65	0.919	0.0	1.0	44.4	66.7	-12.9	67.9	349	1.0	0.0	0.65																																					
354	352	349	1.0	0.0	0.934	46.8	70.9	-7.4	71.3	354	0.987	0.0	1.0	46.6	70.1	-9.8	70.8	352	1.0	0.0	0.633	0.919	0.0	1.0	44.4	66.7	-12.9	67.9	349	1.0	0.0	0.633																																					
355	353	350	1.0	0.0	0.888	46.7	70.9	-6.1	71.2	355	1.0	0.0	0.98	46.9	70.8	-8.6	71.3	353	1.0	0.0	0.617	0.942	0.0	1.0	45.1	67.8	-11.9	68.9	350	1.0	0.0	0.617																																					
356	354	351	1.0	0.0	0.861	46.7	70.9	-4.9	71.1	356	1.0	0.0	0.934	46.8	70.9	-7.4	71.3	354	1.0	0.0	0.6	0.964	0.0	1.0	45.9	69.0	-10.8	69.8	351	1.0	0.0	0.6																																					
357	355	352	1.0	0.0	0.841	46.6	70.8	-3.6	70.9	357	1.0	0.0	0.888	46.7	70.9	-6.1	71.2	355	1.0	0.0	0.583	0.987	0.0	1.0	46.6	70.1	-9.8	70.8	352	1.0	0.0	0.583																																					
358	356	353	1.0	0.0	0.822	46.6	70.7	-2.4	70.8	358	1.0	0.0	0.861	46.7	70.9	-4.9	71.1	356	1.0	0.0	0.567	1.0	0.0	0.98	46.9	70.8	-8.6	71.3	353	1.0	0.0	0.567																																					
359	357	354	1.0	0.0	0.802	46.6	70.6	-1.1	70.6	359	1.0	0.0	0.841	46.6	70.8	-3.6	70.9	357	1.0	0.0	0.55	1.0	0.0	0.934	46.8	70.9	-7.4	71.3	354	1.0	0.0	0.55																																					
0	358	355	1.0	0.0	0.782	46.5	70.5	0.0	70.5	0	1.0	0.0	0.822	46.6	70.7	-2.4	70.8	358	1.0	0.0	0.533	1.0	0.0	0.888	46.7	70.9	-6.1	71.2	355	1.0	0.0	0.533																																					
1	359	356	1.0	0.0	0.762	46.5	70.3	1.2	70.3	1	1.0	0.0	0.802	46.6	70.6	-1.1	70.6	359	1.0	0.0	0.517	1.0	0.0	0.861	46.7	70.9	-4.9	71.1	356	1.0	0.0	0.517																																					
2	360	357	1.0	0.0	0.743	46.5	70.1	2.4	70.2	2	1.0	0.0	0.782	46.5	70.5	0.0	70.5	0	1.0	0.0	0.5	1.0	0.0	0.841	46.6	70.8	-3.6	70.9	357	1.0	0.0	0.5																																					
3	361	358	1.0	0.0	0.723	46.5	69.8	3.7	69.9	3	1.0	0.0	0.762	46.5	70.3	1.2	70.3	1	1.0	0.0	0.483	1.0	0.0	0.822	46.6	70.7	-2.4	70.8	358	1.0	0.0	0.483																																					
4	362	359	1.0	0.0	0.703	46.6	69.5	4.9	69.6	4	1.0	0.0	0.743	46.5	70.1	2.4	70.2	2	1.0	0.0	0.467	1.0	0.0	0.802	46.6	70.6	-1.1	70.6	359	1.0	0.0	0.467																																					
5	363	360	1.0	0.0	0.683	46.6	69.1	6.0	69.4	5	1.0	0.0	0.723	46.5	69.8	3.7	69.9	3	1.0	0.0	0.45	1.0	0.0	0.782	46.5	70.5	0.0	70.5	0	1.0	0.0	0.45																																					
6	364	361	1.0	0.0	0.664	46.7	68.8	7.2	69.1	6	1.0	0.0	0.703	46.6	69.5	4.9	69.6	4	1.0	0.0	0.433	1.0	0.0	0.762	46.5	70.3	1.2	70.3	1	1.0	0.0	0.433																																					
7	365	362	1.0	0.0	0.644	46.7	68.4	8.4	68.9	7	1.0	0.0	0.683	46.6	69.1	6.0	69.4	5	1.0	0.0	0.417	1.0	0.0	0.743	46.5	70.1	2.4	70.2	2	1.0	0.0	0.417																																					
8	366	363	1.0	0.0	0.624	46.8	68.0	9.6	68.6	8	1.0	0.0	0.664	46.7	68.8	7.2	69.1	6	1.0	0.0	0.4	1.0	0.0	0.723	46.5	69.8	3.7	69.9	3	1.0	0.0	0.4																																					
9	367	364	1.0	0.0	0.601	46.7	67.7	10.7	68.6	9	1.0	0.0	0.644	46.7	68.4	8.4	68.9	7	1.0	0.0	0.383	1.0	0.0	0.703	46.6	69.5	4.9	69.6	4	1.0	0.0	0.383																																					
10	368	365	1.0	0.0	0.578	46.6	67.4	11.9	68.5	10	1.0	0.0	0.624	46.8	68.0	9.6	68.6	8	1.0	0.0	0.367	1.0	0.0	0.683	46.6	69.1	6.0	69.4	5	1.0	0.0	0.367																																					
11	369	366	1.0	0.0	0.555	46.5	67.1	13.0	68.4	11	1.0	0.0	0.601	46.7	67.7	10.7	68.6	9	1.0	0.0	0.35	1.0	0.0	0.664	46.7	68.8	7.2	69.1	6	1.0	0.0	0.35																																					
12	370	367	1.0	0.0	0.532	46.4	66.8	14.2	68.3	12	1.0	0.0	0.578	46.6	67.4	11.9	68.5	10	1.0	0.0	0.333	1.0	0.0	0.644	46.7	68.4	8.4	68.9	7	1.0	0.0	0.333																																					
13	371	367	1.0	0.0	0.51	46.3	66.5	15.3	68.2	13	1.0	0.0	0.555	46.5	67.1	13.0	68.4	11	1.0	0.0	0.317	1.0	0.0	0.644	46.7	68.4	8.4	68.9	7	1.0	0.0	0.317																																					
14	372	368	1.0	0.0	0.486	46.3	66.3	16.5	68.3	14	1.0	0.0	0.532	46.4	66.8	14.2	68.3	12	1.0	0.0	0.3	1.0	0.0	0.624	46.8	68.0	9.6	68.6	8	1.0	0.0	0.3																																					
15	373	369	1.0	0.0	0.463	46.3	66.1	17.7	68.4	15	1.0	0.0	0.51	46.3	66.5	15.3	68.2	13	1.0	0.0	0.283	1.0	0.0	0.601	46.7	67.7	10.7	68.6	9	1.0	0.0	0.283																																					
16	374	370	1.0	0.0	0.439	46.3	65.9	18.9	68.6	16	1.0	0.0	0.486	46.3	66.3	16.5	68.3	14	1.0	0.0	0.267	1.0	0.0	0.578	46.6	67.4	11.9	68.5	10	1.0	0.0	0.267																																					
17	375	371	1.0	0.0	0.415	46.3	65.7	20.1	68.7	17	1.0	0.0	0.463	46.3	66.1	17.7	68.4	15	1.0	0.0	0.25	1.0	0.0	0.555	46.5	67.1	13.0	68.4	11	1.0	0.0	0.25																																					
18	376	372	1.0	0.0	0.391	46.3	65.5	21.3	68.9	18	1.0	0.0	0.439	46.3	65.9	18.9	68.6	16	1.0	0.0	0.233	1.0	0.0	0.532	46.4	66.8	14.2	68.3	12	1.0	0.0	0.233																																					
19	377	373	1.0	0.0	0.368	46.3	65.3	22.5	69.1	19	1.0	0.0	0.415	46.3	65.7	20.1	68.7	17	1.0	0.0	0.217	1.0	0.0	0.51	46.3	66.5	15.3	68.2	13	1.0	0.0	0.217																																					
20	378	374	1.0	0.0	0.344	46.4	65.3	23.8	69.5	20	1.0	0.0	0.391	46.3	65.5	21.3	68.9	18	1.0	0.0	0.2																																																