

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 10/360 = 0.02$

$H^*_- = B75R_-$

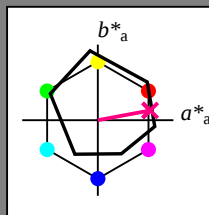
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_- = B75R_-$

triangle lightness T^*



ORS18a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R ₋ ,Ma	47.9	65.3	50.5	82.6	37
Y ₋ ,Ma	90.3	-10.2	91.7	92.3	96
G ₋ ,Ma	50.9	-62.8	34.9	71.9	150
C ₋ ,Ma	58.6	-30.3	-45.0	54.2	236
B ₋ ,Ma	25.7	31.0	-44.4	54.2	305
M ₋ ,Ma	48.1	75.2	-8.3	75.7	353
N ₋ ,Ma	18.0	0.0	0.0	0.0	0
W ₋ ,Ma	95.4	0.0	0.0	0.0	0
R ₋ ,CIE	39.9	58.7	27.9	65.0	25
Y ₋ ,CIE	81.2	-2.8	71.5	71.6	92
G ₋ ,CIE	52.2	-42.4	13.6	44.5	162
B ₋ ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 48 69 12 70 10

$HIC^*_{-,Ma}$: B75R_100_100_

$rgbic^*_{-,Ma}$:

1.0 0.0 0.5 1.0 1.0

triangle lightness T^*

% Gamut

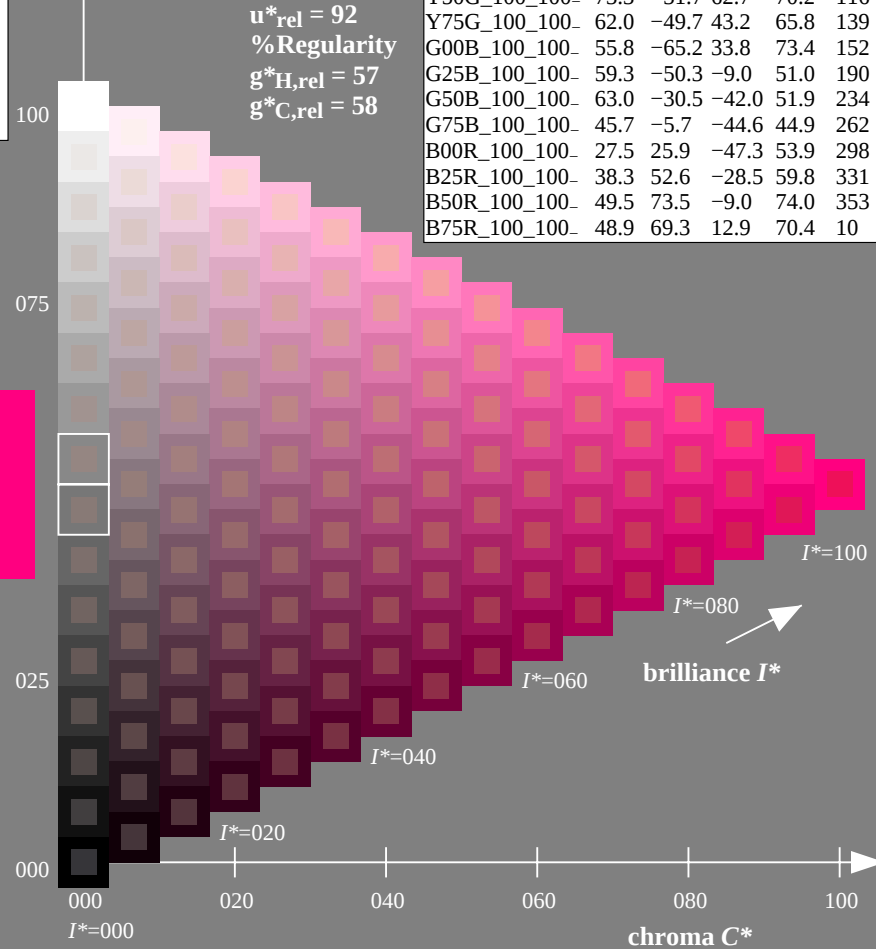
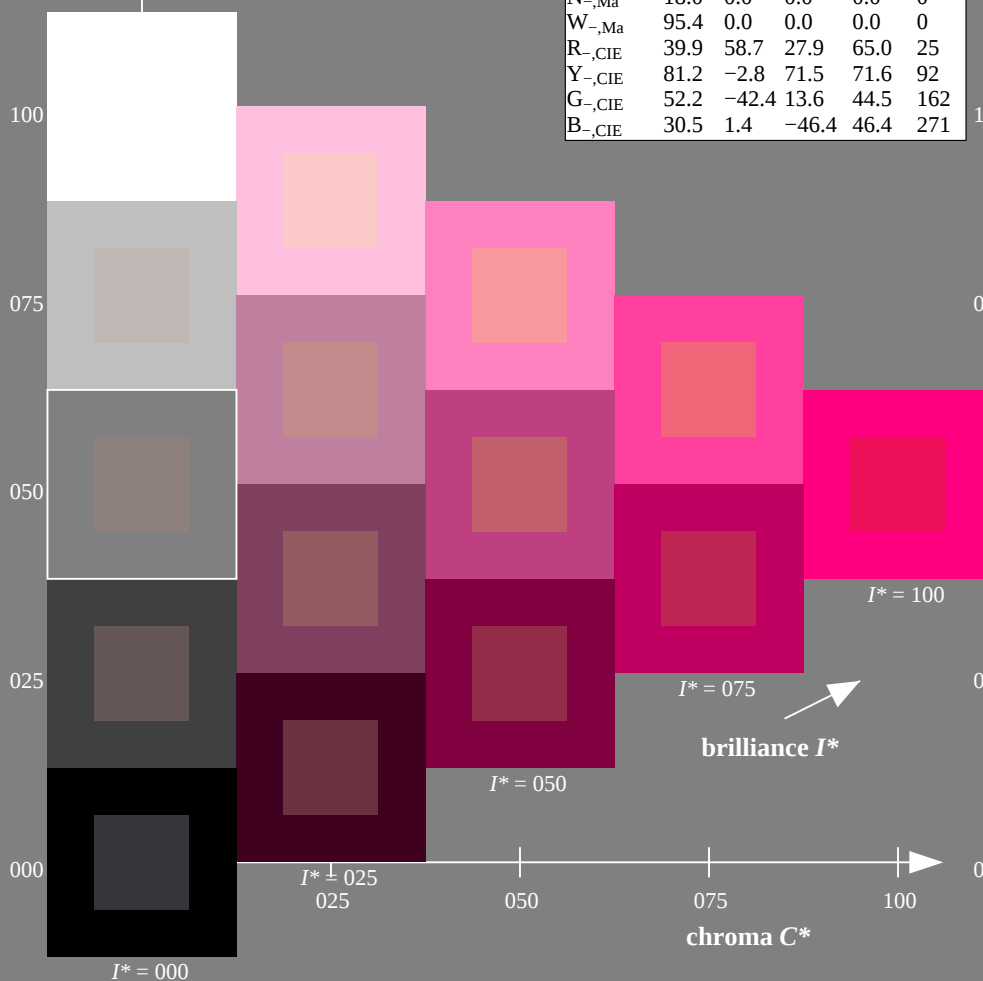
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data					
H^*_-	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-31.7	62.7	70.2	116
Y75G_100_100_	62.0	-49.7	43.2	65.8	139
G00B_100_100_	55.8	-65.2	33.8	73.4	152
G25B_100_100_	59.3	-50.3	-9.0	51.0	190
G50B_100_100_	63.0	-30.5	-42.0	51.9	234
G75B_100_100_	45.7	-5.7	-44.6	44.9	262
B00R_100_100_	27.5	25.9	-47.3	53.9	298
B25R_100_100_	38.3	52.6	-28.5	59.8	331
B50R_100_100_	49.5	73.5	-9.0	74.0	353
B75R_100_100_	48.9	69.3	12.9	70.4	10



TUB-test chart RE44; hue code: $H^*_- = B75R_-$
Test chart according to DIN 33872, 3D=1, de=0, $cm\dot{y}k^*$

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 11/360 = 0.03$

$H^*_d = B75R_d$

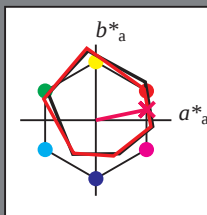
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = B75R_d$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{d,Ma}$	47.3	63.8	41.2	76.0	32
$Y_{d,Ma}$	88.3	-11.9	95.1	95.8	97
$G_{d,Ma}$	51.9	-68.8	28.1	74.3	157
$C_{d,Ma}$	58.3	-29.2	-43.7	52.6	236
$B_{d,Ma}$	25.3	23.5	-47.3	52.8	296
$M_{d,Ma}$	48.2	72.8	-8.5	73.3	353
$N_{d,Ma}$	17.7	0.0	0.0	0.0	0
$W_{d,Ma}$	95.4	0.0	0.0	0.0	0
$R_{d,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{d,CIE}$	81.2	-2.8	71.5	71.6	92
$G_{d,CIE}$	52.2	-42.4	13.6	44.5	162
$B_{d,CIE}$	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$: 47 67 14 69 11

$HIC^*_{d,Ma}$: B75R_100_100d

$rgbic^*_{d,Ma}$:

1.0 0.0 0.5 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

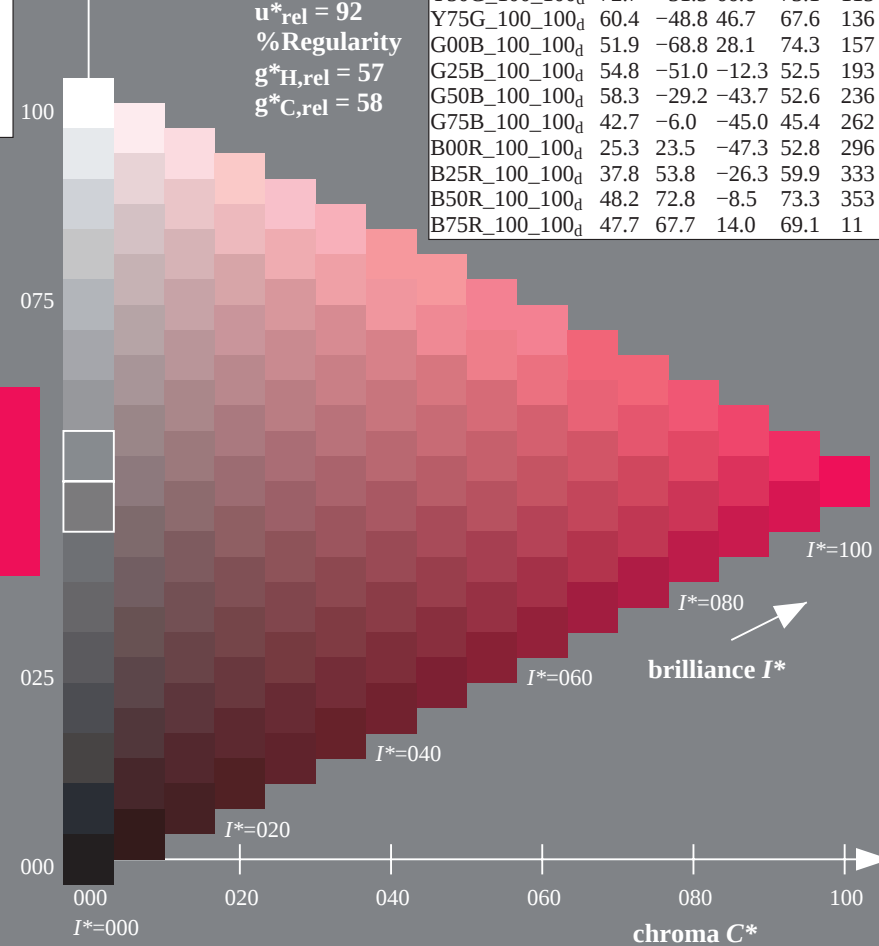
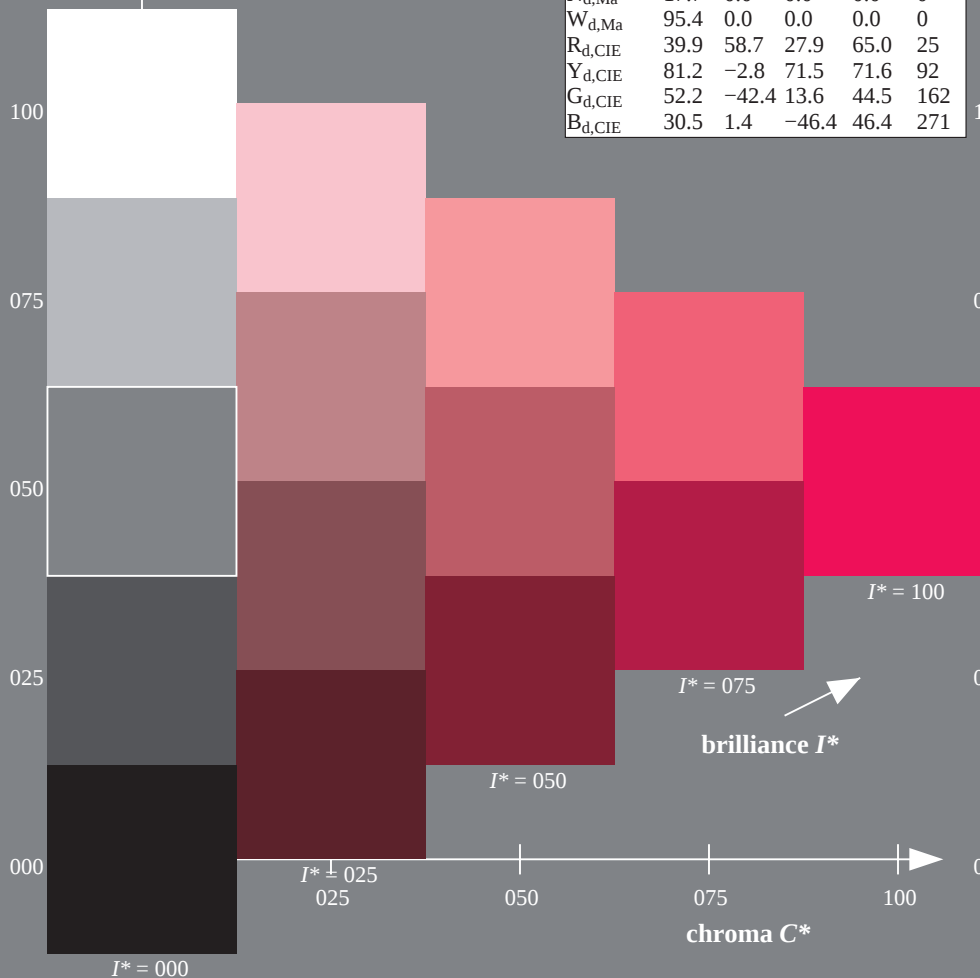
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_{100_100d}$	47.3	63.8	41.2	76.0	32
$R25Y_{100_100d}$	55.3	45.8	52.2	69.5	48
$R50Y_{100_100d}$	67.2	22.6	67.6	71.2	71
$R75Y_{100_100d}$	79.9	1.0	83.9	83.9	89
$Y00G_{100_100d}$	88.3	-11.9	95.1	95.8	97
$Y25G_{100_100d}$	83.3	-19.2	83.7	85.9	102
$Y50G_{100_100d}$	72.7	-31.3	66.0	73.1	115
$Y75G_{100_100d}$	60.4	-48.8	46.7	67.6	136
$G00B_{100_100d}$	51.9	-68.8	28.1	74.3	157
$G25B_{100_100d}$	54.8	-51.0	-12.3	52.5	193
$G50B_{100_100d}$	58.3	-29.2	-43.7	52.6	236
$G75B_{100_100d}$	42.7	-6.0	-45.0	45.4	262
$B00R_{100_100d}$	25.3	23.5	-47.3	52.8	296
$B25R_{100_100d}$	37.8	53.8	-26.3	59.9	333
$B50R_{100_100d}$	48.2	72.8	-8.5	73.3	353
$B75R_{100_100d}$	47.7	67.7	14.0	69.1	11



TUB-test chart RE44; hue code: $H^*_d=B75R_d$
Test chart according to DIN 33872, 3D=1, de=0, $cm yk^*$

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cm yk^*_{dd}$

TUB registration: 20150701-RE44/RE44L0FP.PDF /.PS
application for measurement of offset print output, separation $cm y n b^*$ (CMYK)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIE LAB hue $h_{ab,rel} = h_{ab}/360 = 11/360 = 0.03$

Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = B75R_d$

triangle lightness T^*

Data for maximum colour (Ma):

$LabCh^*_{d, Ma}$: 47 67 14 69 11

$HIC^*_{d, Ma}$: B75R_100_100_d

$rgbic^*_{d, Ma}$:

1.0 0.0 0.5 1.0 1.0

triangle lightness T^*

%Gamut

$u^*_{rel} = 92$

%Regularity

$g^*_{H, rel} = 57$

$g^*_{C, rel} = 58$

$H^*_d = B75R_d$



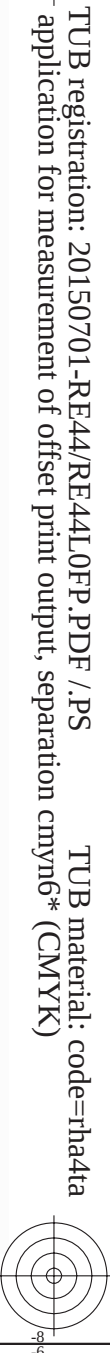
1-103230-L0 RE440-72

TUB-test chart RE44; hue code: $H^*_d = B75R_d$
Test chart according to DIN 33872, 3D=1, de=0, $cmYK^*$

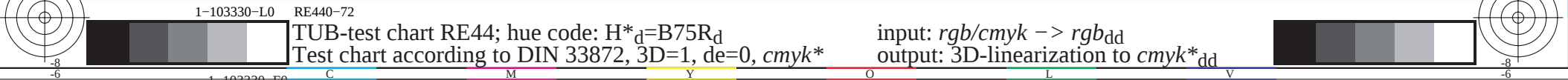
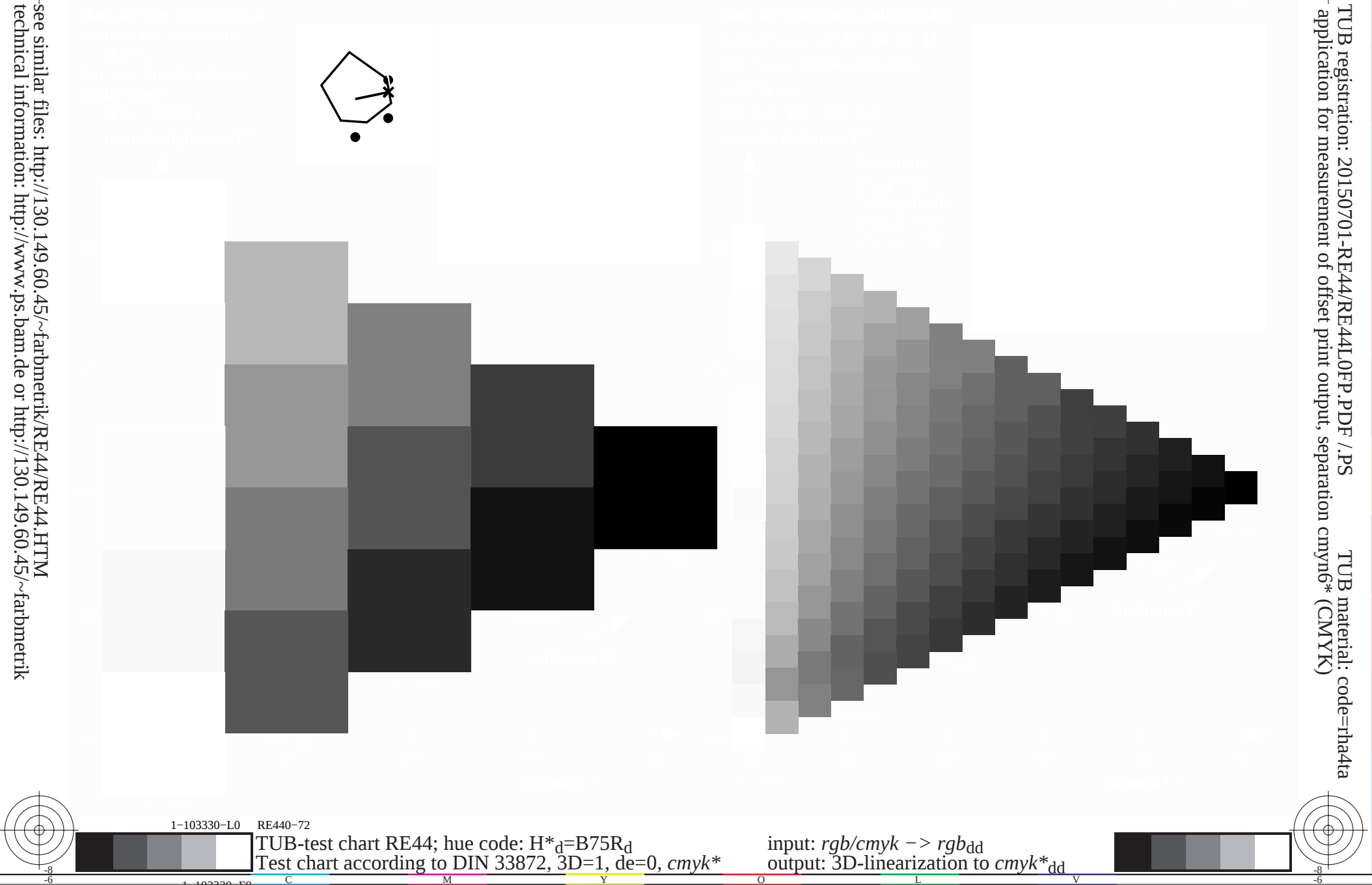
input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmYK^*_{dd}$

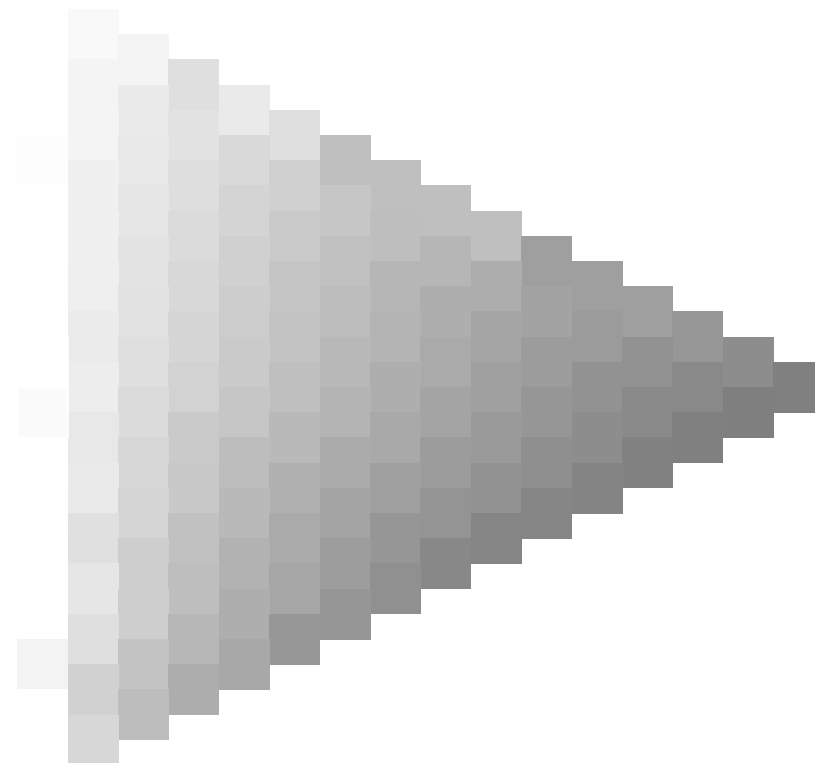
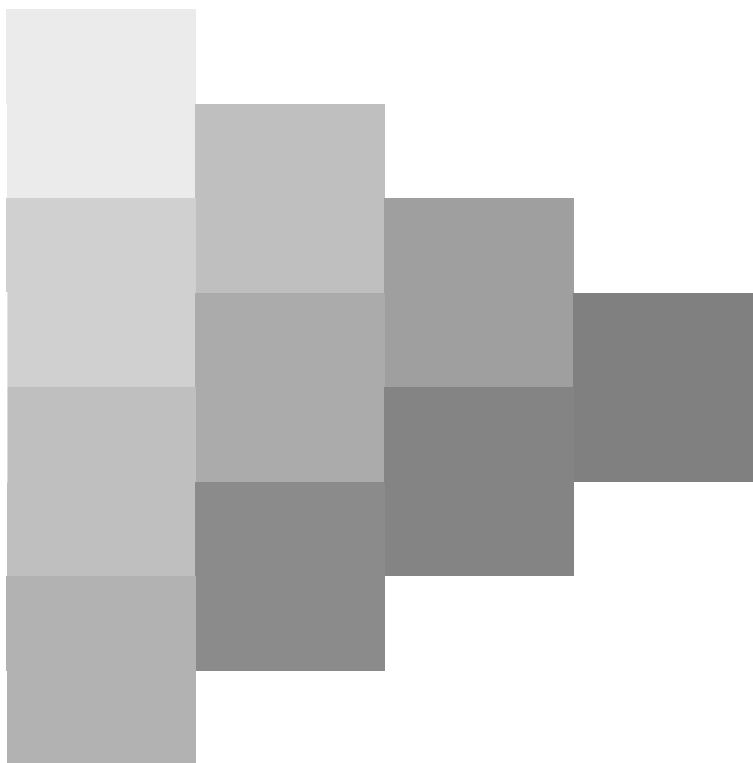
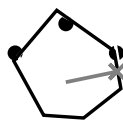
TUB registration: 20150701-RE44/RE44L0FP.PDF /.PS
application for measurement of offset print output, separation $cmYn6^*$ (CMYK)

TUB material: code=rha4ta



see similar files: <http://130.149.60.45/~farbmetrik/RE44/RE44.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>





1-103430-L0 RE440-72

TUB-test chart RE44; hue code: $H^*_d=B75R_d$
Test chart according to DIN 33872, 3D=1, $de=0$, cmyk*

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

1-103430-E0

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 11/360 = 0.03$

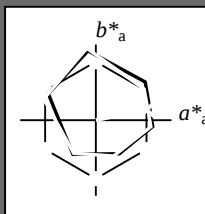
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours
of this page:

$H^*_d = B75R_d$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{d,Ma}	47.3	63.8	41.2	76.0	32
Y _{d,Ma}	88.3	-11.9	95.1	95.8	97
G _{d,Ma}	51.9	-68.8	28.1	74.3	157
C _{d,Ma}	58.3	-29.2	-43.7	52.6	236
B _{d,Ma}	25.3	23.5	-47.3	52.8	296
M _{d,Ma}	48.2	72.8	-8.5	73.3	353
N _{d,Ma}	17.7	0.0	0.0	0.0	0
W _{d,Ma}	95.4	0.0	0.0	0.0	0
R _{d,CIE}	39.9	58.7	27.9	65.0	25
Y _{d,CIE}	81.2	-2.8	71.5	71.6	92
G _{d,CIE}	52.2	-42.4	13.6	44.5	162
B _{d,CIE}	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$: 47 67 14 69 11

$HIC^*_{d,Ma}$: B75R_100_100_d

$rgbic^*_{d,Ma}$:

1.0 0.0 0.5 1.0 1.0

triangle lightness T^*

% Gamut

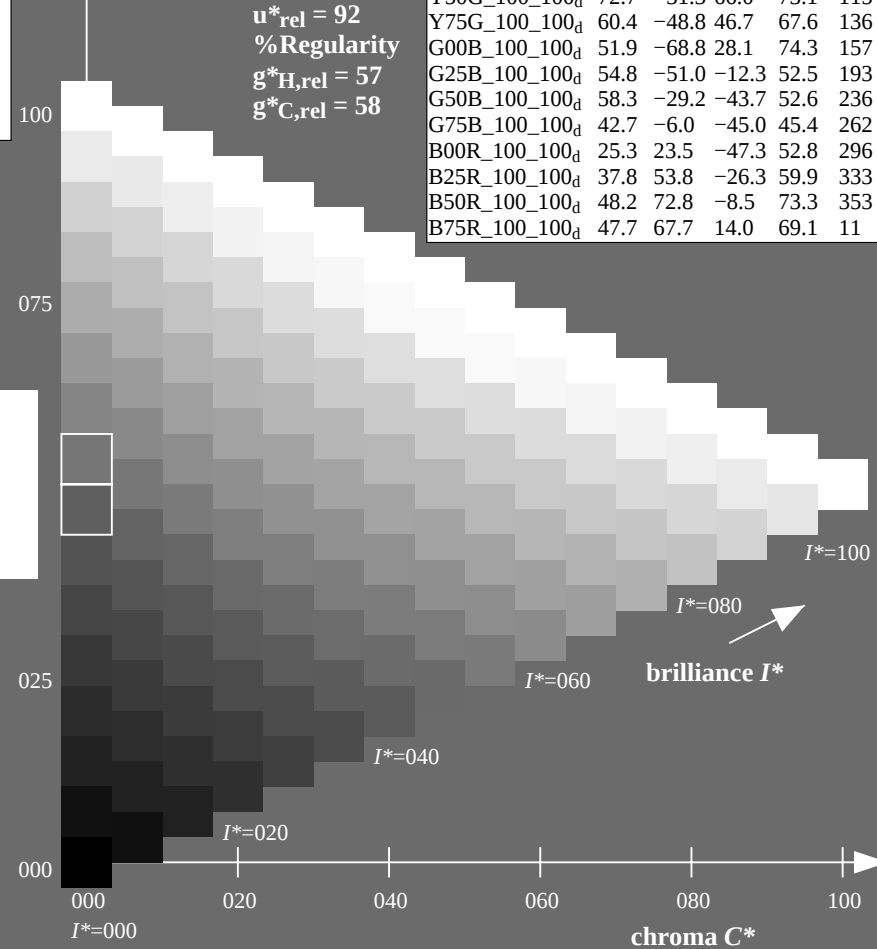
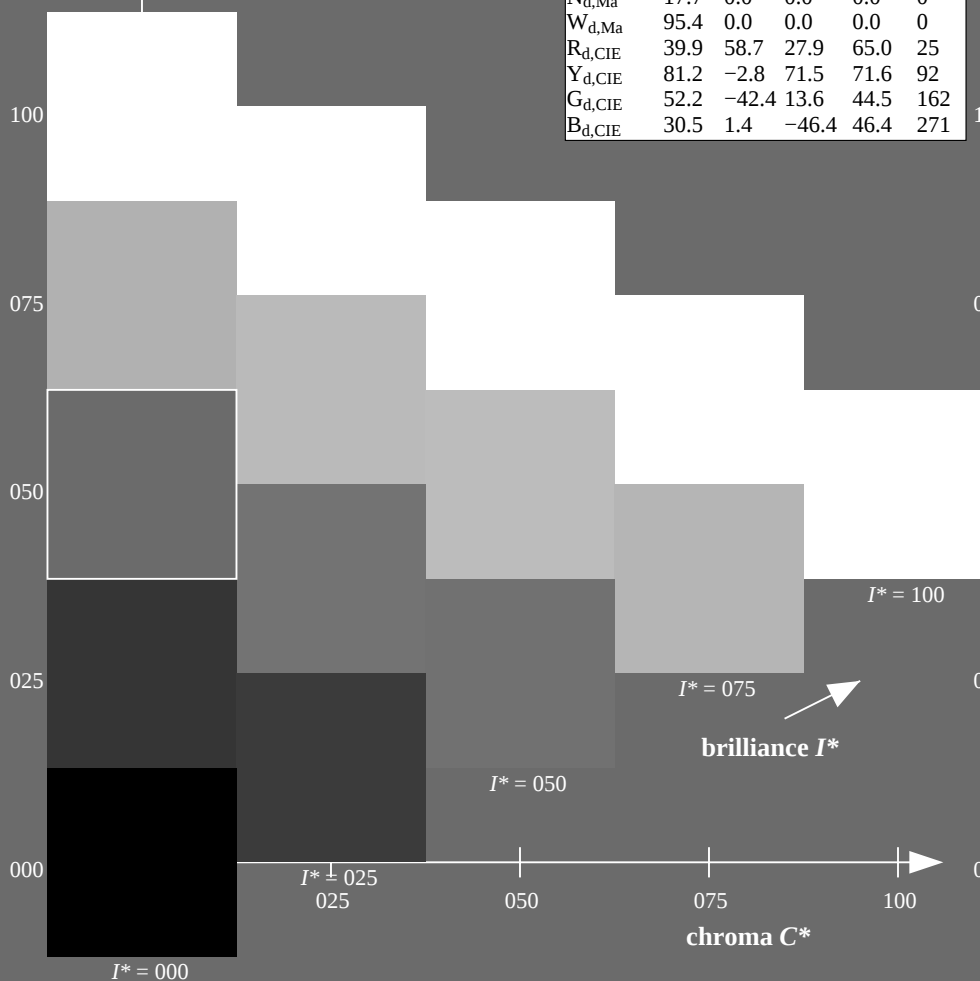
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

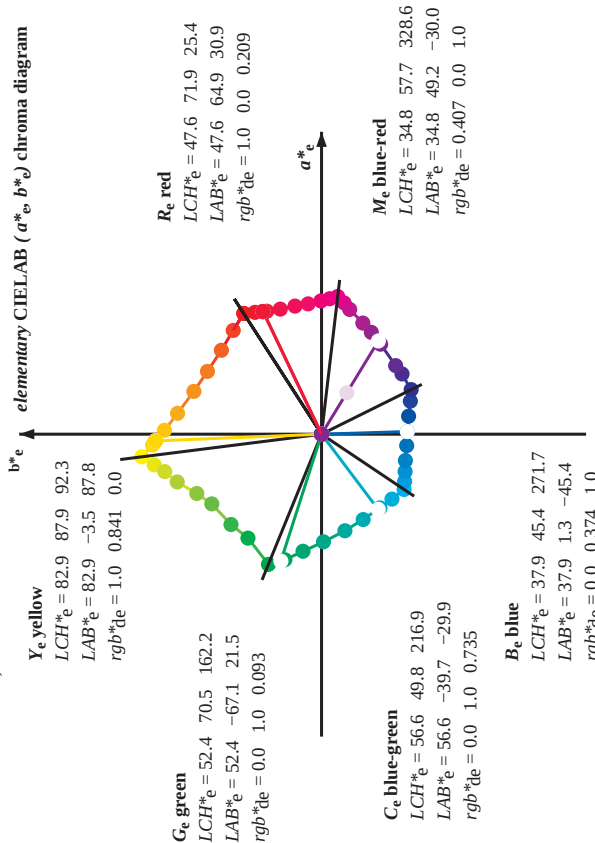
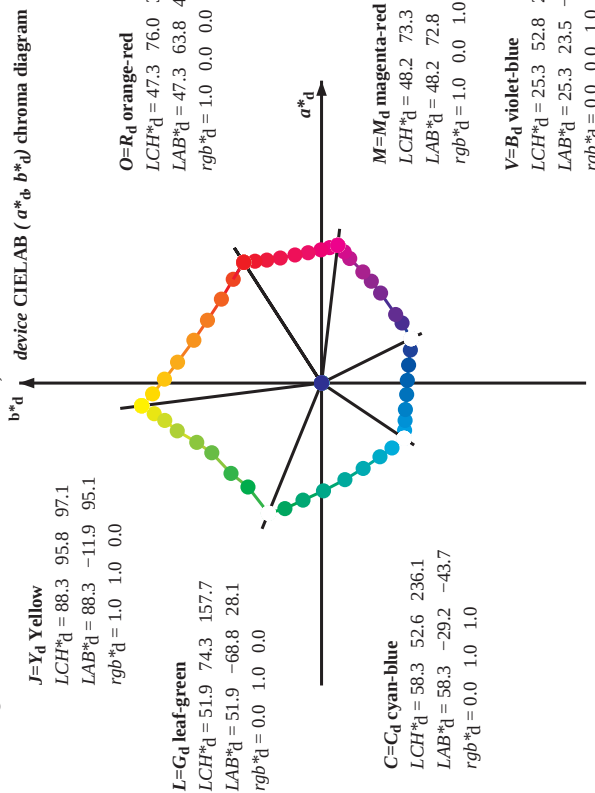
ORS20a; adapted (a) CIELAB data					
H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _d	47.3	63.8	41.2	76.0	32
R25Y_100_100 _d	55.3	45.8	52.2	69.5	48
R50Y_100_100 _d	67.2	22.6	67.6	71.2	71
R75Y_100_100 _d	79.9	1.0	83.9	83.9	89
Y00G_100_100 _d	88.3	-11.9	95.1	95.8	97
Y25G_100_100 _d	83.3	-19.2	83.7	85.9	102
Y50G_100_100 _d	72.7	-31.3	66.0	73.1	115
Y75G_100_100 _d	60.4	-48.8	46.7	67.6	136
G00B_100_100 _d	51.9	-68.8	28.1	74.3	157
G25B_100_100 _d	54.8	-51.0	-12.3	52.5	193
G50B_100_100 _d	58.3	-29.2	-43.7	52.6	236
G75B_100_100 _d	42.7	-6.0	-45.0	45.4	262
B00R_100_100 _d	25.3	23.5	-47.3	52.8	296
B25R_100_100 _d	37.8	53.8	-26.3	59.9	333
B50R_100_100 _d	48.2	72.8	-8.5	73.3	353
B75R_100_100 _d	47.7	67.7	14.0	69.1	11



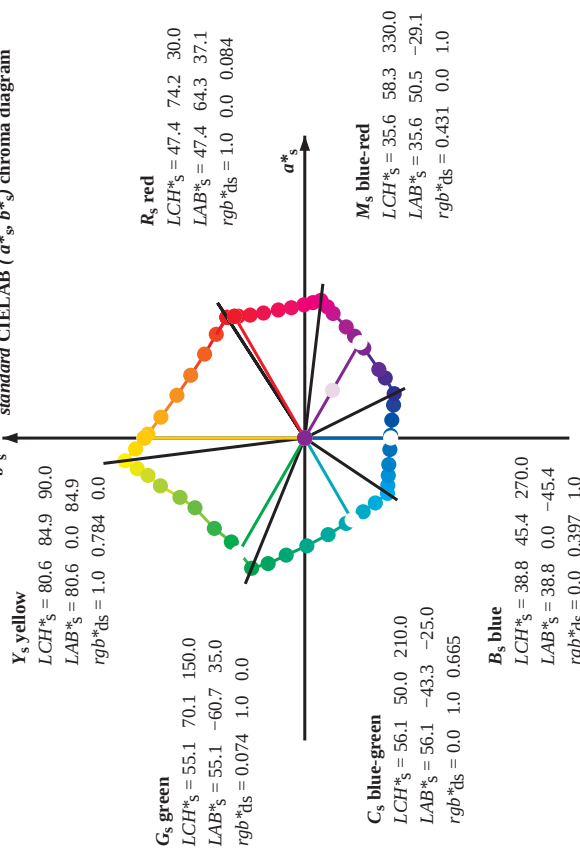
TUB-test chart RE44; hue code: $H^*_d=B75R_d$
Test chart according to DIN 33872, 3D=1, de=0, $cm\dot{y}k^*$

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cm\dot{y}k^*_{dd}$

Data of Maximum color M in colorimetric system Offset standard print; separation cmyk*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM; $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBCM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



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



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

- For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.
- For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_s the equation:
$$h_{ab,s} = \arctan \left[\frac{r^*_d \cos(30) + g^*_d \cos(150)}{1 + \frac{r^*_d \sin(30) + g^*_d \sin(150)}{b^*_d}} \right] \sin(270) \quad (1)$$
- 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 e : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:
$$h_{48ab,s,j} = h_{ab,s,i} + j \frac{h_{ab,s,i+1} - h_{ab,s,i}}{1/8} \quad (i=0,1,...,5; j=0,1,...,7) \quad (2)$$

$$h_{360ab,s,j} = h_{ab,s,i} + j \frac{h_{ab,s,i+1} - h_{ab,s,i}}{1/60} \quad (i=0,1,...,5; j=0,1,...,59) \quad (3)$$
- 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 : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:
$$h_{48ab,e,j} = h_{ab,e,i} + j \frac{h_{ab,e,i+1} - h_{ab,e,i}}{1/8} \quad (i=0,1,...,5; j=0,1,...,7) \quad (4)$$

$$h_{360ab,e,j} = h_{ab,e,i} + j \frac{h_{ab,e,i+1} - h_{ab,e,i}}{1/60} \quad (i=0,1,...,5; j=0,1,...,59) \quad (5)$$
- For any elementary hue angle h_{ab} there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.
- The values rgb^*_s produce the output of the device-independent elementary hues

1-103630-L0 RE440-72 $LAB^*_{ab,0}, YN=0\%$, $XYZ_{nw}=2.4, 2.5, 2.6, 85.1, 88.8, 104.3$, $LAB^*_{nw}=17.7, 0.0, 0.0, 95.5, 0.0, 0.0$

TUB-test chart RE44; hue code: $H^*_d=B75R_d$
48 step hue circles; $rgb-LabCh$ -tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

Output: Offset standard print; separation cmyk*, D65, page 7/33

<http://130.149.60.45/~farbmatrik/RE44/RE44L0FP.PDF> /PS; 3D-linearization
F: 3D-linearization RE44/RE44LE30FP.DAT in file (F), page 9/33

35.5, 0.0, 0.0	Output: Offset sta
input: <i>rgb/cmyk</i> -> <i>rgb</i> _{dd}	
output: 3D-linearization to <i>cmyk</i> * _{dd}	

LAB*_a0, YN=0%, XY_{ZNW}=2.4, 2.5, 2.6, 85.1, 88.8, 104.3, RE440-72

[illegible]

Six hue angles of the device colours RYGBCM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$										Six hue angles of the device colours RYGBCM; $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$; Six hue angles of the elementary colours RYGBCM; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$																							
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{d361M}	$LAB^*_{d361MI}(x=LabCh)$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$	rgb^*_{d361MI}	$LAB^*_{ds361MI}(x=LabCh)$													
88	75	75	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88	1.0	0.543	0.0	69.4	19.0	70.7	73.2	75	1.0	0.75	0.0	1.0	0.55	0.0	69.8	18.3	71.3	73.6	75	1.0	0.75	0.0	
89	76	76	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89	1.0	0.555	0.0	70.0	17.9	71.6	73.8	76	1.0	0.767	0.0	1.0	0.564	0.0	70.5	17.0	72.2	74.2	76	1.0	0.767	0.0	
89	77	77	1.0	0.783	0.0	80.6	0.0	84.8	84.8	89	1.0	0.567	0.0	70.7	16.7	72.4	74.3	77	1.0	0.783	0.0	1.0	0.577	0.0	71.2	15.8	73.1	74.8	77	1.0	0.783	0.0	
90	78	78	1.0	0.8	0.0	81.2	-0.9	85.7	85.7	90	1.0	0.579	0.0	71.3	15.6	73.3	74.9	78	1.0	0.8	0.0	1.0	0.591	0.0	71.9	14.5	74.0	75.4	78	1.0	0.8	0.0	
91	79	80	1.0	0.816	0.0	81.9	-1.9	86.5	86.5	91	1.0	0.591	0.0	71.9	14.4	74.1	75.5	79	1.0	0.817	0.0	1.0	0.604	0.0	72.6	13.1	74.9	76.0	80	1.0	0.817	0.0	
91	80	81	1.0	0.833	0.0	82.6	-3.0	87.4	87.4	91	1.0	0.604	0.0	72.5	13.2	74.9	76.6	81	1.0	0.833	0.0	1.0	0.618	0.0	73.3	11.8	75.8	76.7	81	1.0	0.833	0.0	
92	81	82	1.0	0.85	0.0	83.2	-4.0	88.2	88.3	92	1.0	0.616	0.0	73.2	12.0	75.6	76.6	80	1.0	0.85	0.0	1.0	0.635	0.0	74.1	10.4	76.8	77.5	82	1.0	0.85	0.0	
93	82	83	1.0	0.866	0.0	83.9	-5.1	89.0	89.2	93	1.0	0.629	0.0	73.8	10.7	76.5	77.2	82	1.0	0.867	0.0	1.0	0.655	0.0	75.0	9.0	77.9	78.5	83	1.0	0.867	0.0	
93	83	84	1.0	0.883	0.0	84.5	-6.1	89.8	90.0	93	1.0	0.648	0.0	74.7	9.5	77.5	78.1	83	1.0	0.883	0.0	1.0	0.675	0.0	75.9	7.6	79.1	79.5	84	1.0	0.883	0.0	
94	84	85	1.0	0.9	0.0	85.1	-6.9	90.6	90.8	94	1.0	0.666	0.0	75.5	8.3	78.6	79.0	84	1.0	0.9	0.0	1.0	0.696	0.0	76.8	6.1	80.2	80.5	85	1.0	0.9	0.0	
94	85	86	1.0	0.916	0.0	85.6	-7.7	91.3	91.7	94	1.0	0.684	0.0	76.3	7.0	79.6	79.9	85	1.0	0.917	0.0	1.0	0.716	0.0	77.8	4.6	81.3	81.5	86	1.0	0.917	0.0	
95	86	87	1.0	0.933	0.0	86.1	-8.5	92.1	92.5	95	1.0	0.703	0.0	77.1	5.6	80.6	80.8	86	1.0	0.933	0.0	1.0	0.736	0.0	78.7	3.1	82.4	82.5	87	1.0	0.933	0.0	
95	87	88	1.0	0.95	0.0	86.7	-9.3	92.9	93.3	95	1.0	0.721	0.0	78.0	4.3	81.6	81.7	87	1.0	0.95	0.0	1.0	0.759	0.0	79.7	1.5	83.6	83.6	88	1.0	0.95	0.0	
96	88	90	1.0	0.966	0.0	87.2	-10.2	93.6	94.2	96	1.0	0.739	0.0	78.8	2.9	82.5	82.6	88	1.0	0.967	0.0	1.0	0.787	0.0	80.8	0.0	85.0	85.0	90	1.0	0.967	0.0	
96	89	91	1.0	0.983	0.0	87.8	-11.1	94.3	95.0	96	1.0	0.76	0.0	79.7	1.5	83.6	83.6	89	1.0	0.983	0.0	1.0	0.814	0.0	81.9	-1.7	86.5	86.5	91	1.0	0.983	0.0	
97	90	92	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97	1.0	0.785	0.0	80.7	0.0	84.9	84.9	90	1.0	1.0	0.0	1.0	0.842	0.0	83.0	-3.4	87.8	87.9	92	1.0	1.0	0.0	
97	91	93	0.983	1.0	0.0	88.0	-12.5	94.2	95.1	97	1.0	0.809	0.0	81.7	-1.4	86.2	86.2	91	0.983	1.0	0.0	1.0	0.871	0.0	84.1	-5.3	89.2	89.4	93	0.983	1.0	0.0	
98	92	94	0.966	1.0	0.0	87.7	-13.1	93.4	94.3	98	1.0	0.834	0.0	82.7	-3.0	87.5	87.5	92	0.967	1.0	0.0	1.0	0.91	0.0	85.4	-7.3	91.1	91.4	94	0.967	1.0	0.0	
98	93	95	0.95	1.0	0.0	87.3	-13.7	92.5	93.5	98	1.0	0.859	0.0	83.6	-4.5	88.7	88.8	93	0.95	1.0	0.0	1.0	0.951	0.0	86.8	-9.4	93.0	93.4	95	0.95	1.0	0.0	
98	94	96	0.933	1.0	0.0	87.0	-14.3	91.6	92.7	98	1.0	0.887	0.0	84.7	-6.2	90.0	90.3	94	0.933	1.0	0.0	1.0	0.993	0.0	88.1	-11.5	94.8	95.5	96	0.933	1.0	0.0	
99	95	98	0.916	1.0	0.0	86.6	-14.8	90.8	92.0	99	1.0	0.923	0.0	85.8	-7.9	91.7	92.0	95	0.917	1.0	0.0	0.963	1.0	0.0	87.6	-13.2	93.2	94.1	98	0.917	1.0	0.0	
99	96	99	0.9	1.0	0.0	86.3	-15.4	89.9	91.2	99	1.0	0.958	0.0	87.0	-9.7	93.3	93.8	96	0.9	1.0	0.0	0.917	1.0	0.0	86.7	-14.8	90.8	92.0	99	0.9	1.0	0.0	
100	97	100	0.883	1.0	0.0	86.0	-15.9	89.0	90.4	100	1.0	0.994	0.0	88.2	-11.5	94.8	95.6	97	0.883	1.0	0.0	0.871	1.0	0.0	85.8	-16.2	88.4	89.9	100	0.883	1.0	0.0	
100	98	101	0.866	1.0	0.0	85.6	-16.4	88.2	89.7	100	1.0	0.968	1.0	0.0	87.7	-13.0	93.5	94.4	98	0.867	1.0	0.0	0.823	1.0	0.0	84.7	-17.7	86.3	88.1	101	0.867	1.0	0.0
100	99	102	0.85	1.0	0.0	85.2	-16.9	87.4	89.1	100	1.0	0.929	1.0	0.0	86.9	-14.4	91.4	92.6	99	0.85	1.0	0.0	0.774	1.0	0.0	83.5	-19.0	84.1	86.2	102	0.85	1.0	0.0
101	100	103	0.833	1.0	0.0	84.8	-17.4	86.7	88.4	101	0.89	1.0	0.0	86.2	-15.7	89.4	90.8	100	0.833	1.0	0.0	0.735	1.0	0.0	82.3	-20.3	82.2	84.7	103	0.833	1.0	0.0	
101	101	105	0.816	1.0	0.0	84.5	-17.9	86.0	87.8	101	0.849	1.0	0.0	85.3	-16.9	87.5	89.1	101	0.817	1.0	0.0	0.706	1.0	0.0	80.9	-21.7	80.7	83.6	105	0.817	1.0	0.0	
102	102	106	0.8	1.0	0.0	84.1	-18.3	85.2	87.2	102	0.807	1.0	0.0	84.3	-18.1	85.6	87.5	102	0.8	1.0	0.0	0.676	1.0	0.0	79.5	-23.0	79.1	82.4	106	0.8	1.0	0.0	
102	103	107	0.783	1.0	0.0	83.7	-18.8	84.5	86.5	102	0.765	1.0	0.0	83.3	-19.2	83.7	85.9	103	0.783	1.0	0.0	0.647	1.0	0.0	78.1	-24.3	77.5	81.3	107	0.783	1.0	0.0	
102	104	108	0.766	1.0	0.0	83.3	-19.2	83.7	85.9	102	0.734	1.0	0.0	82.2	-20.4	82.2	84.7	104	0.767	1.0	0.0	0.62	1.0	0.0	76.9	-25.5	75.9	80.1	108	0.767	1.0	0.0	
103	105	109	0.75	1.0	0.0	82.9	-19.7	83.0	85.3	103	0.709	1.0	0.0	81.0	-21.6	80.9	83.7	105	0.75	1.0	0.0	0.599	1.0	0.0	76.2	-26.6	74.3	78.9	109	0.75	1.0	0.0	
104	106	110	0.733	1.0	0.0	82.2	-20.5	82.1	84.6	104	0.684	1.0	0.0	79.9	-22.7	79.5	82.7	106	0.733	1.0	0.0	0.578	1.0	0.0	75.5	-27.7	72.6	77.7	110	0.733	1.0	0.0	
104	107	112	0.716	1.0	0.0	81.4	-21.3	81.2	84.0	104	0.658	1.0	0.0	78.7	-23.8	78.2	81.7	107	0.717	1.0	0.0	0.558	1.0	0.0	74.8	-28.7	70.9	76.5	112	0.717	1.0	0.0	
105	108	113	0.7	<																													

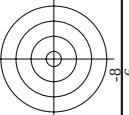


TUB material: code=rha4ta
nyn6* (CMYK)

TUB-test chart RE44; hue code: H_d^{*}=B75R_d^{*}
colors and differences, ΔE^{*}

RE440-7N, Page 18/33-F

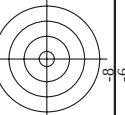
n/f	HIC ⁺ Fold	rgb ⁺ Fold	fcr ⁺ Fold	hsa ⁺ Fold	LabCh ⁺ Fold			cmv ⁺ sep ⁺ Fold	hsa ⁺ Mid	rgb ⁺ Mid			LabCh ⁺ Mid			delta				
					1.0	0.0	0.0			1.0	0.0	0.0	1.0	0.0	0.0		1.0	0.0	0.0	
0/648	R00Y_100_100ad	1.0	0.0	1.0	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8	0.0	1.0	0.0	47.3	63.8	41.2	76.0	32.8
1/657	R13Y_100_100ad	1.0	0.125	0.0	1.0	0.116	0.0	50.9	55.5	46.4	72.3	39.9	0.0	0.882	1.0	0.0	50.9	55.5	46.4	72.3
2/666	R28Y_100_100ad	1.0	0.25	0.0	1.0	0.233	0.0	55.3	45.8	52.2	69.5	48.7	0.0	0.631	1.0	0.0	55.3	45.8	52.2	69.5
3/675	R38Y_100_100ad	1.0	0.375	0.0	1.0	0.366	0.0	61.0	34.0	59.9	68.9	60.4	0.0	0.498	0.999	0.0	61.0	34.0	59.9	68.9
4/684	R50Y_100_100ad	1.0	0.5	0.0	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4	0.0	0.368	1.0	0.0	67.2	22.6	67.6	71.2
5/693	R63Y_100_100ad	1.0	0.625	0.0	1.0	0.633	0.0	74.0	10.4	76.6	77.3	82.2	0.0	0.368	1.0	0.0	74.0	10.4	76.6	77.3
6/702	R80Y_100_100ad	1.0	0.75	0.0	1.0	0.766	0.0	79.9	1.0	83.9	83.9	89.2	0.0	0.234	1.0	0.0	79.9	1.0	83.9	89.2
7/711	R85Y_100_100ad	1.0	0.875	0.0	1.0	0.883	0.0	84.5	-6.1	89.8	90.0	93.8	0.0	0.117	1.0	0.0	84.5	-6.1	89.8	93.8
8/720	Y00G_100_100ad	1.0	1.0	0.0	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1	0.0	0.0	0.999	0.0	88.3	-11.9	95.1	95.8
9/639	Y13G_100_100ad	0.875	1.0	0.0	0.883	1.0	0.0	86.0	-15.9	89.0	85.4	100.1	0.117	0.0	1.0	0.0	86.0	-15.9	89.0	90.4
10/558	Y25G_100_100ad	0.75	1.0	0.0	0.766	1.0	0.0	83.3	-19.2	83.7	80.9	102.9	0.234	0.0	1.0	0.0	83.3	-19.2	83.7	85.9
11/477	Y38G_100_100ad	0.625	1.0	0.0	0.633	1.0	0.0	77.4	-24.9	76.8	80.7	107.9	0.368	0.0	1.0	0.0	77.4	-24.9	76.8	80.7
12/396	Y50G_100_100ad	0.5	1.0	0.0	1.0	0.5	1.0	0.0	-31.3	66.0	73.1	115.3	0.999	0.0	0.999	0.0	1.0	0.0	72.7	115.3
13/295	Y63G_100_100ad	0.375	1.0	0.0	0.366	1.0	0.0	68.3	-37.7	57.4	68.7	123.2	0.632	0.0	1.0	0.0	68.3	-37.7	57.4	68.7
14/234	Y75G_100_100ad	0.25	1.0	0.0	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136.2	0.766	0.0	1.0	0.0	60.4	-48.8	46.7	67.6
15/153	Y88G_100_100ad	0.125	1.0	0.0	0.116	1.0	0.0	57.0	-55.9	38.3	67.8	145.5	0.882	0.0	1.0	0.0	57.0	-55.9	38.3	67.8
16/72	G00C_100_100ad	0.0	1.0	0.0	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7	0.999	0.0	1.0	0.0	51.9	-68.8	28.1	74.3
17/73	G13C_100_100ad	0.0	1.0	0.0	0.0	1.0	0.0	52.5	-66.6	19.9	69.5	163.3	1.0	0.0	0.882	0.0	52.5	-66.6	19.9	69.5
18/74	G25C_100_100ad	0.0	1.0	0.0	0.0	1.0	0.0	53.2	-62.6	11.0	63.6	170.0	1.0	0.0	0.765	0.0	53.2	-62.6	11.0	63.6
19/75	G38C_100_100ad	0.0	1.0	0.0	0.0															



TUB material: code=rha4ta
nyn6* (CMYK)

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

HIC*Ftd	rgb_Ftd	tcr_Ftd	hsa_Ftd	rgb*Ftd	LabCh*Ftd	cmv*sep_Ftd	hsa_Mtd	rgb*Mtd	LabCh*Mtd	delta	
										Mean	color difference of this page:
0 0	0 0	0 0	360 0	1 0	95.4 0	0 0	1 0	1 0	95.4 0	0 0	0 0
1 1	0 0	0 0	360 0	0 0	0 0	0.431 0.896	1 0	1 0	25.3 23.5	-47.3 52.8	296.4 0
2 2	0 0	0 0	270 0	0 0	0.608 0.608	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
3 3	0 0	0 0	270 0	0 0	0.723 0.723	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
4 4	0 0	0 0	270 0	0 0	0.802 0.802	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
5 5	0 0	0 0	270 0	0 0	0.849 0.849	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
6 6	0 0	0 0	270 0	0 0	0.925 0.925	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
7 7	0 0	0 0	270 0	0 0	0.964 0.964	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
8 8	0 0	0 0	270 0	0 0	1.0 1.0	0.000 0.000	0 0	0 0	25.3 23.5	-47.3 52.8	296.4 0
9 9	0 0	0 0	149 0	0 0	0.483 0.483	0.000 0.000	0 0	0 0	51.9 -68.8	28.1 74.3	157.7 0
10 10	0 0	0 0	210 0	0 0	0.635 0.635	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
11 11	0 0	0 0	240 0	0 0	0.823 0.823	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
12 12	0 0	0 0	251 0	0 0	0.945 0.945	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
13 13	0 0	0 0	257 0	0 0	0.965 0.965	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
14 14	0 0	0 0	262 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
15 15	0 0	0 0	262 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
16 16	0 0	0 0	262 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
17 17	0 0	0 0	263 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
18 18	0 0	0 0	160 0	0 0	0.614 0.614	0.000 0.000	0 0	0 0	51.9 -68.8	28.1 74.3	157.7 0
19 19	0 0	0 0	180 0	0 0	0.806 0.806	0.000 0.000	0 0	0 0	51.9 -68.8	28.1 74.3	157.7 0
20 20	0 0	0 0	180 0	0 0	0.806 0.806	0.000 0.000	0 0	0 0	51.9 -68.8	28.1 74.3	157.7 0
21 21	0 0	0 0	218 0	0 0	0.965 0.965	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
22 22	0 0	0 0	240 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
23 23	0 0	0 0	247 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
24 24	0 0	0 0	251 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
25 25	0 0	0 0	255 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
26 26	0 0	0 0	257 0	0 0	0.988 0.988	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
27 27	0 0	0 0	168 0	0 0	0.531 0.531	0.000 0.000	0 0	0 0	51.9 -68.8	28.1 74.3	157.7 0
28 28	0 0	0 0	191 0	0 0	0.736 0.736	0.000 0.000	0 0	0 0	58.3 -29.2	-43.7 52.6	236.1 0
29 29	0 0	0 0	210 0	0 0							

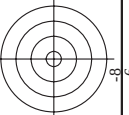


TUB material: code=rha4ta
nyn6* (CMYK)

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

TUB-test chart RE44; hue code: $H^*_d=B75R_d$
colors and differences, ΔE^*

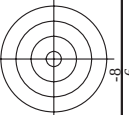
[illegible]



TUB material: code=rha4ta
nyn6* (CMYK)

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmyk^*_{dd}$

TU8-test chart RE44; hue code: H_d^{*}=B75R_d^{*}
colors and differences, ΔE^{*}



TUB material: code=rha4ta
nyn6* (CMYK)

input: *rgb/cmyk* $\rightarrow$ *rgbdd*
output: 3D-linearization to *cmyk**_{dd}

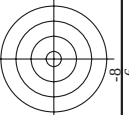
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

RE440-7N, Page 25/33-F

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1-1032430-F0

n	HVC*Field	rgb*Field	lcr*Field	hsa*Field	rgb*Field	LabCH*Field	cmyk*sep,Field	hsa*id	rgb*id	LabCH*id	delta
648	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
649	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
650	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
651	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
652	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
653	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
654	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
655	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
656	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
657	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
658	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
659	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
660	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
661	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
662	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
663	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
664	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
665	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
666	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
667	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
668	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
669	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
670	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
671	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
672	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
673	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
674	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
675	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
676	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
677	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
678	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
679	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
680	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
681	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
682	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
683	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
684	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
685	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
686	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
687	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
688	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
689	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
690	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
691	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
692	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
693	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
694	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
695	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
696	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
697	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
698	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
699	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
700	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
701	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
702	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
703	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
704	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
705	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
706	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
707	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
708	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
709	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
710	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
711	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
712	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
713	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
714	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
715	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
716	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
717	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
718	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
719	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
720	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
721	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
722	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
723	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
724	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
725	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
726	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
727	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0
728	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.3	63.8	390	1.0	0.0	0.0



TUB material: code=rha4ta
nyn6* (CMYK)

```
input: rgb/cmyk -> rgbdd
output: 3D-linearization to cmyk*dd
```

I'UB-test chart RE44; hue code: $H^*_d=B/5R_d$
 colors and differences, ΔE^*

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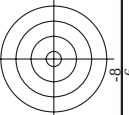
http://130.149.60.45/~farbmeterik/RE44/RE44L0FP.PDF /PS; 3D-linearization
F: 3D-linearization RE44/RE44LE30FP.DAT in file (F), page 29/33

n	HIC-Fold	rgb-Fold	fcc-Fold	hsa-Fold	rgb-Fold	LabCh-Fold	cmv ^{sp} -Fold	delta
729	NW_1000d	1.0	1.0	360	1.0	95.4	0.0	0.0
730	G50B_001.0124d	0.875	1.0	0.937	1.0	90.8	-3.6	-5.4
731	G50B_001.0254d	0.75	1.0	0.815	1.0	86.1	-7.3	-10.9
732	G50B_001.0374d	0.625	1.0	0.735	1.0	81.5	-10.9	-16.4
733	G50B_001.0504d	0.5	1.0	0.65	1.0	76.9	-14.6	-21.8
734	G50B_001.0624d	0.375	1.0	0.562	1.0	72.2	-18.3	-27.3
735	G50B_001.0754d	0.25	1.0	0.475	1.0	67.6	-21.9	-32.8
736	G50B_001.0874d	0.125	1.0	0.385	1.0	62.9	-25.6	-38.2
737	G50B_001.1004d	0.0	1.0	0.295	1.0	58.3	-29.2	-43.7
738	ROXY_100.0124d	1.0	0.875	0.937	1.0	88.4	7.9	5.1
739	NW_0874d	0.875	0.875	0.875	0.875	85.7	0.0	0.0
740	G50B_087.0124d	0.75	0.875	0.875	0.875	81.1	-3.6	-5.4
741	G50B_087.0254d	0.625	0.875	0.875	0.875	76.4	-7.3	-10.9
742	G50B_087.0374d	0.5	0.875	0.875	0.875	71.8	-10.9	-16.4
743	G50B_087.0504d	0.375	0.875	0.875	0.875	67.1	-14.6	-21.8
744	G50B_087.0624d	0.25	0.875	0.875	0.875	62.5	-18.3	-27.3
745	G50B_087.0754d	0.125	0.875	0.875	0.875	57.9	-21.9	-32.8
746	G50B_087.0874d	0.0	0.875	0.875	0.875	53.2	-25.6	-38.2
747	ROXY_087.0124d	1.0	0.75	0.75	0.75	83.4	15.9	10.3
748	ROXY_087.0254d	0.875	0.75	0.75	0.75	78.7	7.9	5.1
749	ROXY_087.0374d	0.75	0.75	0.75	0.75	74.0	0.0	0.0
750	ROXY_087.0504d	0.625	0.75	0.75	0.75	69.4	0.0	0.0
751	G50B_075.0124d	0.5	0.75	0.75	0.75	64.7	-7.3	-10.9
752	G50B_075.0254d	0.375	0.75	0.75	0.75	60.1	-14.6	-21.8
753	G50B_075.0374d	0.25	0.75	0.75	0.75	55.4	-18.3	-27.3
754	G50B_075.0504d	0.125	0.75	0.75	0.75	50.8	-21.9	-32.8
755	G50B_075.0624d	0.0	0.75	0.75	0.75	46.1	-25.6	-38.2
756	ROXY_075.0124d	1.0	0.625	0.625	1.0	77.4	23.9	15.4
757	ROXY_075.0254d	0.875	0.625	0.625	0.875	72.7	15.9	10.3
758	ROXY_075.0374d	0.75	0.625	0.625	0.75	68.0	7.9	5.1
759	ROXY_075.0504d	0.625	0.625	0.625	0.625	63.3	0.0	0.0
760	G50B_062.0124d	0.5	0.625	0.625	0.5	58.6	0.0	0.0
761	G50B_062.0254d	0.375	0.625	0.625	0.375	53.9	-3.6	-5.4
762	G50B_062.0374d	0.25	0.625	0.625	0.25	49.2	-7.3	-10.9
763	G50B_062.0504d	0.125	0.625	0.625	0.125	44.5	-10.9	-16.4
764	G50B_062.0624d	0.0	0.625	0.625	0.0	39.8	-14.6	-21.8
765	ROXY_100.0504d	1.0	0.5	1.0	1.0	71.4	31.9	20.6
766	ROXY_087.0374d	0.875	0.5	1.0	0.875	66.7	23.9	15.4
767	ROXY_075.0254d	0.75	0.5	1.0	0.75	62.0	15.9	10.3
768	ROXY_062.0124d	0.625	0.5	1.0	0.625	57.3	7.9	5.1
769	NW_0504d	0.5	0.5	1.0	0.5	52.6	0.0	0.0
770	G50B_050.0124d	0.375	0.5	1.0	0.375	47.9	0.0	0.0
771	G50B_050.0254d	0.25	0.5	1.0	0.25	43.2	-3.6	-5.4
772	G50B_050.0374d	0.125	0.5	1.0	0.125	38.5	-7.3	-10.9
773	G50B_050.0504d	0.0	0.5	1.0	0.0	33.8	-10.9	-16.4
774	ROXY_100.0624d	1.0	0.375	0.375	1.0	65.4	39.9	25.7
775	ROXY_087.0504d	0.875	0.375	0.375	0.875	60.7	31.9	20.6
776	ROXY_075.0374d	0.75	0.375	0.375	0.75	56.0	23.9	15.4
777	ROXY_062.0254d	0.625	0.375	0.375	0.625	51.3	15.9	10.3
778	ROXY_050.0124d	0.5	0.375	0.375	0.5	46.6	7.9	5.1
779	ROXY_037.0124d	0.375	0.375	0.375	0.375	41.9	0.0	0.0
780	G50B_037.0374d	0.25	0.375	0.375	0.25	37.2	-3.6	-5.4
781	G50B_037.0504d	0.125	0.375	0.375	0.125	32.5	-7.3	-10.9
782	G50B_037.0624d	0.0	0.375	0.375	0.0	27.8	-10.9	-16.4
783	ROXY_100.0754d	1.0	0.25	1.0	1.0	59.3	47.9	30.9
784	ROXY_087.0624d	0.875	0.25	1.0	0.875	54.6	39.9	25.7
785	ROXY_075.0504d	0.75	0.25	1.0	0.75	49.9	31.9	20.6
786	ROXY_062.0374d	0.625	0.25	1.0	0.625	45.2	15.9	10.3
787	ROXY_050.0254d	0.5	0.25	1.0	0.5	40.5	7.9	5.1
788	ROXY_037.0124d	0.375	0.25	1.0	0.375	35.8	0.0	0.0
789	NW_0254d	0.25	0.25	1.0	0.25	31.1	0.0	0.0
790	G50B_025.0124d	0.125	0.25	1.0	0.125	26.4	-3.6	-5.4
791	G50B_025.0254d	0.0	0.25	1.0	0.0	21.7	-7.3	-10.9
792	ROXY_100.0874d	1.0	0.125	0.125	1.0	53.3	55.8	36.0
793	ROXY_087.0754d	0.875	0.125	0.125	0.875	48.6	47.9	30.9
794	ROXY_075.0624d	0.75	0.125	0.125	0.75	43.9	39.9	25.7
795	ROXY_062.0504d	0.625	0.125	0.125	0.625	39.2	31.9	20.6
796	ROXY_050.0374d	0.5	0.125	0.125	0.5	34.5	15.9	10.3
797	ROXY_037.0254d	0.375	0.125	0.125	0.375	29.8	7.9	5.1
798	ROXY_025.0124d	0.25	0.125	0.125	0.25	25.1	0.0	0.0
799	NW_0144d	0.125	0.125	0.125	0.125	20.4	0.0	0.0
800	G50B_012.0124d	0.0	0.125	0.125	0.0	15.7	-3.6	-5.4
801	ROXY_100.1004d	1.0	0.0	0.0	1.0	41.2	76.0	32.8
802	ROXY_087.0874d	0.875	0.0	0.0	0.875	36.5	66.5	32.8
803	ROXY_075.0754d	0.75	0.0	0.0	0.75	31.9	57.0	32.8
804	ROXY_062.0624d	0.625	0.0	0.0	0.625	27.3	47.9	30.9
805	ROXY_050.0504d	0.5	0.0	0.0	0.5	22.6	39.9	25.7
806	ROXY_037.0374d	0.375	0.0	0.0	0.375	18.0	31.9	20.6
807	ROXY_025.0254d	0.25	0.0	0.0	0.25	13.3	23.9	15.4
808	ROXY_012.0124d	0.125	0.0	0.0	0.125	8.6	15.9	10.3
809	NW_1004d	0.0	0.0	0.0	0.0	3.9	7.9	5.1

Mean color difference of this page:

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1-1032830-F0



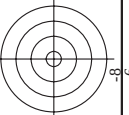
TUB material: code=rha4ta
nyn6* (CMYK)

input: *rgb/cmyk* → *rgb*_{dd}
output: 3D-linearization to *cmyk**_{dd}

UB-test chart RE44; hue code: $H^*_d=B/5R_d$
 colors and differences, ΔE^*

n	HIC* _{rad}	rgb* _{rad}	lcr* _{rad}	h _{sc} * _{rad}	rgb* _{rad}	LabCH* _{rad}	cmym* _{sep} * _{rad}	h _{sc} * _{rad}	rgb* _{rad}	LabCH* _{rad}	delta
810	NW_100rad	1.0	1.0	1.0	0.0	360	0.0	360	1.0	95.4	0.0
811	BOOR_100_012rad	0.75	0.875	1.0	1.0	86.7	2.9	86.7	0.0	95.4	0.0
812	BOOR_100_025rad	0.75	0.875	1.0	1.0	86.7	2.9	86.7	0.0	95.4	0.0
813	BOOR_100_037rad	0.625	0.625	1.0	1.0	69.1	8.8	69.1	0.0	95.4	0.0
814	BOOR_100_050rad	0.5	0.5	1.0	1.0	60.4	11.7	60.4	0.0	95.4	0.0
815	BOOR_100_062rad	0.375	0.375	1.0	1.0	51.6	14.6	51.6	0.0	95.4	0.0
816	BOOR_100_075rad	0.25	0.25	1.0	1.0	42.8	17.6	42.8	0.0	95.4	0.0
817	BOOR_100_087rad	0.125	0.125	1.0	1.0	34.1	20.5	34.1	0.0	95.4	0.0
818	BOOR_100_100rad	0.0	0.0	1.0	1.0	25.3	23.5	25.3	0.0	95.4	0.0
819	BOOR_100_012rad	1.0	1.0	0.875	1.0	94.5	-1.4	11.8	11.9	97.1	0.0
820	NW_067rad	0.875	0.875	0.875	0.875	85.7	0.0	0.0	0.0	0.0	0.0
821	BOOR_067_012rad	0.75	0.75	0.875	0.875	76.9	2.9	76.9	0.0	0.0	0.0
822	BOOR_067_025rad	0.625	0.625	0.875	0.875	68.2	5.8	68.2	0.0	0.0	0.0
823	BOOR_067_037rad	0.5	0.5	0.875	0.875	59.4	8.8	59.4	0.0	0.0	0.0
824	BOOR_067_050rad	0.375	0.375	0.875	0.875	50.6	11.7	50.6	0.0	0.0	0.0
825	BOOR_067_062rad	0.25	0.25	0.875	0.875	41.8	14.6	41.8	0.0	0.0	0.0
826	BOOR_067_075rad	0.125	0.125	0.875	0.875	33.0	17.6	33.0	0.0	0.0	0.0
827	BOOR_067_087rad	0.0	0.0	0.875	0.875	24.2	20.5	24.2	0.0	0.0	0.0
828	Y00G_100_025rad	1.0	1.0	0.75	1.0	93.7	-2.9	23.7	23.6	97.1	0.0
829	Y00G_067_012rad	0.875	0.875	0.75	1.0	84.8	-1.4	11.8	11.9	97.1	0.0
830	NW_075rad	0.75	0.75	0.75	0.75	76.0	0.0	0.0	0.0	0.0	0.0
831	BOOR_075_012rad	0.625	0.625	0.75	0.75	67.2	2.9	67.2	0.0	0.0	0.0
832	BOOR_075_025rad	0.5	0.5	0.75	0.75	58.4	5.8	58.4	0.0	0.0	0.0
833	BOOR_075_037rad	0.375	0.375	0.75	0.75	49.7	8.8	49.7	0.0	0.0	0.0
834	BOOR_075_050rad	0.25	0.25	0.75	0.75	40.9	11.7	40.9	0.0	0.0	0.0
835	BOOR_075_062rad	0.125	0.125	0.75	0.75	32.1	14.6	32.1	0.0	0.0	0.0
836	BOOR_075_075rad	0.0	0.0	0.75	0.75	23.4	17.6	23.4	0.0	0.0	0.0
837	Y00G_100_037rad	1.0	1.0	0.625	1.0	92.8	-4.4	35.6	35.9	97.1	0.0
838	Y00G_067_025rad	0.875	0.875	0.625	1.0	83.9	-2.9	23.7	23.9	97.1	0.0
839	NW_062rad	0.625	0.625	0.625	1.0	66.3	0.0	0.0	0.0	0.0	0.0
840	BOOR_062_012rad	0.5	0.5	0.625	1.0	57.5	2.9	57.5	0.0	0.0	0.0
841	BOOR_062_025rad	0.375	0.375	0.625	1.0	48.7	5.8	48.7	0.0	0.0	0.0
842	BOOR_062_037rad	0.25	0.25	0.625	1.0	39.9	8.8	39.9	0.0	0.0	0.0
843	BOOR_062_050rad	0.125	0.125	0.625	1.0	31.2	11.7	31.2	0.0	0.0	

n	HVC-Fid	rgb_Fid	icd_Fid	hsa_Fid	rgb*_Fid	LabCH*_Fid	cmyn*_sep_Fid	hsv*_id	rgb*_id	LabCH*_id	delta
891	NW_100ad	1.0	1.0	1.0	1.0	95.4	0.0	1.0	1.0	95.4	0.0
892	B50R_100.012ad	0.875	1.0	0.875	1.0	89.5	9.1	0.875	1.0	89.5	9.1
893	B50R_100.025ad	0.75	1.0	0.75	1.0	83.6	18.2	0.75	1.0	83.6	18.2
894	B50R_100.037ad	0.625	1.0	0.625	1.0	77.7	27.3	0.625	1.0	77.7	27.3
895	B50R_100.050ad	0.5	1.0	0.5	1.0	71.8	36.4	0.5	1.0	71.8	36.4
896	B50R_100.062ad	0.375	1.0	0.375	1.0	65.9	45.5	0.375	1.0	65.9	45.5
897	B50R_100.075ad	0.25	1.0	0.25	1.0	60.0	54.6	0.25	1.0	60.0	54.6
898	B50R_100.087ad	0.125	1.0	0.125	1.0	54.1	63.7	0.125	1.0	54.1	63.7
899	B50R_100.100ad	0.0	1.0	0.0	1.0	48.2	72.8	0.0	1.0	48.2	72.8
900	GOB_100.012ad	0.875	1.0	0.875	1.0	90.0	-8.6	0.875	1.0	90.0	-8.6
901	NW_087ad	0.875	0.875	0.875	0.875	85.7	0.0	0.875	0.875	85.7	0.0
902	B50R_087.012ad	0.875	0.75	0.875	0.75	78.8	9.1	0.875	0.75	78.8	9.1
903	B50R_087.025ad	0.875	0.625	0.875	0.625	73.9	18.2	0.875	0.625	73.9	18.2
904	B50R_087.037ad	0.875	0.5	0.875	0.5	68.0	27.3	0.875	0.5	68.0	27.3
905	B50R_087.050ad	0.875	0.375	0.875	0.375	62.1	36.4	0.875	0.375	62.1	36.4
906	B50R_087.062ad	0.875	0.25	0.875	0.25	56.2	45.5	0.875	0.25	56.2	45.5
907	B50R_087.075ad	0.875	0.125	0.875	0.125	50.3	54.6	0.875	0.125	50.3	54.6
908	B50R_087.087ad	0.875	0.0	0.875	0.0	44.4	63.7	0.875	0.0	44.4	63.7
909	GOB_100.025ad	0.75	1.0	0.75	1.0	84.5	-17.2	0.75	1.0	84.5	-17.2
910	GOB_100.037ad	0.625	1.0	0.625	1.0	78.6	-26.3	0.625	1.0	78.6	-26.3
911	B50R_075.012ad	0.75	0.75	0.75	0.75	76.0	0.0	0.75	0.75	76.0	0.0
912	B50R_075.025ad	0.75	0.625	0.75	0.625	70.1	9.1	0.75	0.625	70.1	9.1
913	B50R_075.037ad	0.75	0.5	0.75	0.5	64.2	18.2	0.75	0.5	64.2	18.2
914	B50R_075.050ad	0.75	0.375	0.75	0.375	58.3	27.3	0.75	0.375	58.3	27.3
915	B50R_075.062ad	0.75	0.25	0.75	0.25	52.4	36.4	0.75	0.25	52.4	36.4
916	B50R_075.075ad	0.75	0.125	0.75	0.125	46.5	45.5	0.75	0.125	46.5	45.5
917	B50R_075.087ad	0.75	0.0	0.75	0.0	40.6	54.6	0.75	0.0	40.6	54.6
918	GOB_100.037ad	0.625	1.0	0.625	1.0	79.1	-25.8	0.625	1.0	79.1	-25.8
919	GOB_100.050ad	0.5	1.0	0.5	1.0	73.2	-34.9	0.5	1.0	73.2	-34.9
920	GOB_075.012ad	0.625	0.75	0.625	0.75	66.3	-6.5	0.625	0.75	66.3	-6.5
921	GOB_075.025ad	0.625	0.625	0.625	0.625	60.4	9.1	0.625	0.625	60.4	9.1
922	B50R_062.012ad	0.625	0.5	0.625	0.5	54.5	18.2	0.625	0.5	54.5	18.2
923	B50R_062.025ad	0.625	0.375	0.625	0.375	48.6	27.3	0.625	0.375	48.6	27.3
924	B50R_062.037ad	0.625	0.25	0.625	0.25	42.7	36.4	0.625	0.25	42.7	36.4
925	B50R_062.050ad	0.625	0.125	0.625	0.125	36.8	45.5	0.625	0.125	36.8	45.5
926	B50R_062.062ad	0.625	0.0	0.625	0.0	30.9	54.6	0.625	0.0	30.9	54.6
927	GOB_100.050ad	0.5	1.0	0.5	1.0	73.7	-34.4	0.5	1.0	73.7	-34.4
928	GOB_087.037ad	0.5	0.875	0.5	0.875	69.4	-25.8	0.5	0.875	69.4	-25.8
929	GOB_075.025ad	0.5	0.75	0.5	0.75	63.5	-34.9	0.5	0.75	63.5	-34.9
930	GOB_062.012ad	0.5	0.625	0.5	0.625	57.6	-44.0	0.5	0.625	57.6	-44.0
931	NW_050ad	0.5	0.5	0.5	0.5	51.7	-53.1	0.5	0.5	51.7	-53.1
932	B50R_050.012ad	0.5	0.375	0.5	0.375	45.8	-62.2	0.5	0.375	45.8	-62.2
933	B50R_050.025ad	0.5	0.25	0.5	0.25	39.9	-71.3	0.5	0.25	39.9	-71.3
934	B50R_050.037ad	0.5	0.125	0.5	0.125	34.0	-80.4	0.5	0.125	34.0	-80.4
935	B50R_050.050ad	0.5	0.0	0.5	0.0	28.1	-89.5	0.5	0.0	28.1	-89.5
936	GOB_100.062ad	0.375	1.0	0.375	1.0	68.2	-43.0	0.375	1.0	68.2	-43.0
937	GOB_087.050ad	0.375	0.875	0.375	0.875	63.3	-52.1	0.375	0.875	63.3	-52.1
938	GOB_075.037ad	0.375	0.75	0.375	0.75	57.4	-61.2	0.375	0.75	57.4	-61.2
939	GOB_062.025ad	0.375	0.625	0.375	0.625	51.5	-70.3	0.375	0.625	51.5	-70.3
940	GOB_050.012ad	0.375	0.5	0.375	0.5	45.6	-79.4	0.375	0.5	45.6	-79.4
941	NW_037ad	0.375	0.375	0.375	0.375	40.7	-88.5	0.375	0.375	40.7	-88.5
942	B50R_037.012ad	0.375	0.25	0.375	0.25	34.8	-97.6	0.375	0.25	34.8	-97.6
943	B50R_037.025ad	0.375	0.125	0.375	0.125	28.9	-106.7	0.375	0.125	28.9	-106.7
944	B50R_037.037ad	0.375	0.0	0.375	0.0	23.0	-115.8	0.375	0.0	23.0	-115.8
945	GOB_100.075ad	0.25	1.0	0.25	1.0	62.8	-51.6	0.25	1.0	62.8	-51.6
946	GOB_087.062ad	0.25	0.875	0.25	0.875	56.9	-60.7	0.25	0.875	56.9	-60.7
947	GOB_075.050ad	0.25	0.75	0.25	0.75	51.0	-69.8	0.25	0.75	51.0	-69.8
948	GOB_062.037ad	0.25	0.625	0.25	0.625	45.1	-78.9	0.25	0.625	45.1	-78.9
949	GOB_050.025ad	0.25	0.5	0.25	0.5	39.2	-88.0	0.25	0.5	39.2	-88.0
950	GOB_037.012ad	0.25	0.375	0.25	0.375	33.3	-97.1	0.25	0.375	33.3	-97.1
951	NW_025ad	0.25	0.25	0.25	0.25	27.4	-106.2	0.25	0.25	27.4	-106.2
952	B50R_025.012ad	0.25	0.125	0.25	0.125	21.5	-115.3	0.25	0.125	21.5	-115.3
953	B50R_025.025ad	0.25	0.0	0.25	0.0	15.6	-124.4	0.25	0.0	15.6	-124.4
954	GOB_100.087ad	0.125	1.0	0.125	1.0	57.9	-40.2	0.125	1.0	57.9	-40.2
955	GOB_087.075ad	0.125	0.875	0.125	0.875	52.0	-49.3	0.125	0.875	52.0	-49.3
956	GOB_075.062ad	0.125	0.75	0.125	0.75	46.1	-58.4	0.125	0.75	46.1	-58.4
957	GOB_062.050ad	0.125	0.625	0.125	0.625	40.2	-67.5	0.125	0.625	40.2	-67.5
958	GOB_050.037ad	0.125	0.5	0.125	0.5	34.3	-76.6	0.125	0.5	34.3	-76.6
959	GOB_037.025ad	0.125	0.375	0.125	0.375	28.4	-85.7	0.125	0.375	28.4	-85.7
960	GOB_025.012ad	0.125	0.25	0.125	0.25	22.5	-94.8	0.125	0.25	22.5	-94.8
961	NW_012ad	0.125	0.125	0.125	0.125	16.6	-103.9	0.125	0.125	16.6	-103.9
962	B50R_012.012ad	0.125	0.0	0.125	0.0	10.7	-113.0	0.125	0.0	10.7	-113.0
963	GOB_100.100ad	0.0	1.0	0.0	1.0	47.6	-60.2	0.0	1.0	47.6	-60.2
964	GOB_087.087ad	0.0	0.875	0.0	0.875	41.7	-69.3	0.0	0.875	41.7	-69.3
965	GOB_075.075ad	0.0	0.75	0.0	0.75	35.8	-78.4	0.0	0.75	35.8	-78.4
966	GOB_062.062ad	0.0	0.625	0.0	0.625	29.9	-87.5	0.0	0.625	29.9	-87.5
967	GOB_050.050ad	0.0	0.5	0.0	0.5	24.0	-96.6	0.0	0.5	24.0	-96.6
968	GOB_037.037ad	0.0	0.375	0.0	0.375	18.1	-105.7	0.0	0.375	18.1	-105.7
969	GOB_025.025ad	0.0	0.25	0.0	0.25	12.2	-114.8	0.0	0.25	12.2	-114.8
970	GOB_012.012ad	0.0	0.125	0.0	0.125	6.3	-123.9	0.0	0.125	6.3	-123.9
971	NW_000ad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TUB material: code=rha4ta
nyn6* (CMYK)

input: $rgb/cmyk \rightarrow rgb_{dd}$
 output: 3D-linearization to $cmyk^*_{dd}$

n	HIC [°] Fold	rgb [°] Fold	lcr [°] Fold	hsa [°] Fold	LabCh [°] Fold	cmym [°] sep [°] Fold	hsa [°] Mid	rgb [°] Mid	LabCh [°] Mid	delta
972	NW_0000dd	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0
973	NW_0124dd	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0
974	NW_0254dd	0.25	0.25	0.25	0.0	0.0	360	1.0	1.0	0.0
975	NW_0374dd	0.375	0.375	0.375	0.0	0.0	360	1.0	1.0	0.0
976	NW_0504dd	0.5	0.5	0.5	0.0	0.0	360	1.0	1.0	0.0
977	NW_0624dd	0.625	0.625	0.625	0.0	0.0	360	1.0	1.0	0.0
978	NW_0754dd	0.75	0.75	0.75	0.0	0.0	360	1.0	1.0	0.0
979	NW_0874dd	0.875	0.875	0.875	0.0	0.0	360	1.0	1.0	0.0
980	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
981	NW_0000dd	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0
982	NW_0124dd	0.125	0.125	0.125	0.0	0.0	360	1.0	1.0	0.0
983	NW_0254dd	0.25	0.25	0.25	0.0	0.031	360	1.0	0.791	0.0
984	NW_0374dd	0.375	0.375	0.375	0.0	0.034	360	1.0	0.69	0.0
985	NW_0504dd	0.5	0.5	0.5	0.0	0.026	360	1.0	0.581	0.0
986	NW_0624dd	0.625	0.625	0.625	0.0	0.02	360	1.0	0.443	0.0
987	NW_0754dd	0.75	0.75	0.75	0.0	0.018	360	1.0	0.306	0.0
988	NW_0874dd	0.875	0.875	0.875	0.0	0.023	360	1.0	0.17	0.0
989	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
990	NW_0000dd	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0
991	NW_0124dd	0.125	0.125	0.125	0.0	0.037	360	1.0	0.878	0.0
992	NW_0254dd	0.25	0.25	0.25	0.0	0.031	360	1.0	0.791	0.0
993	NW_0374dd	0.375	0.375	0.375	0.0	0.034	360	1.0	0.69	0.0
994	NW_0504dd	0.5	0.5	0.5	0.0	0.026	360	1.0	0.581	0.0
995	NW_0624dd	0.625	0.625	0.625	0.0	0.02	360	1.0	0.443	0.0
996	NW_0754dd	0.75	0.75	0.75	0.0	0.018	360	1.0	0.306	0.0
997	NW_0874dd	0.875	0.875	0.875	0.0	0.023	360	1.0	0.17	0.0
998	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
999	NW_0000dd	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0
1000	NW_0124dd	0.125	0.125	0.125	0.0	0.037	360	1.0	0.878	0.0
1001	NW_0254dd	0.25	0.25	0.25	0.0	0.031	360	1.0	0.791	0.0
1002	NW_0374dd	0.375	0.375	0.375	0.0	0.034	360	1.0	0.69	0.0
1003	NW_0504dd	0.5	0.5	0.5	0.0	0.026	360	1.0	0.581	0.0
1004	NW_0624dd	0.625	0.625	0.625	0.0	0.02	360	1.0	0.443	0.0
1005	NW_0754dd	0.75	0.75	0.75	0.0	0.018	360	1.0	0.306	0.0
1006	NW_0874dd	0.875	0.875	0.875	0.0	0.023	360	1.0	0.17	0.0
1007	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
1008	NW_0000dd	0.0	0.0	0.0	0.0	0.0	360	1.0	1.0	0.0
1009	NW_0064dd	0.066	0.066	0.066	0.0	0.139	360	1.0	0.933	0.0
1010	NW_0134dd	0.133	0.133	0.133	0.0	0.043	360	1.0	0.871	0.0
1011	NW_0204dd	0.2	0.2	0.2	0.0	0.057	360	1.0	0.825	0.0
1012	NW_0264dd	0.266	0.266	0.266	0.0	0.013	360	1.0	0.781	0.0
1013	NW_0334dd	0.333	0.333	0.333	0.0	0.016	360	1.0	0.731	0.0
1014	NW_0404dd	0.4	0.4	0.4	0.0	0.027	360	1.0	0.672	0.0
1015	NW_0464dd	0.466	0.466	0.466	0.0	0.019	360	1.0	0.628	0.0
1016	NW_0534dd	0.533	0.533	0.533	0.0	0.021	360	1.0	0.541	0.0
1017	NW_0604dd	0.6	0.6	0.6	0.0	0.006	360	1.0	0.478	0.0
1018	NW_0664dd	0.666	0.666	0.666	0.0	0.006	360	1.0	0.405	0.0
1019	NW_0734dd	0.734	0.734	0.734	0.0	0.021	360	1.0	0.322	0.0
1020	NW_0804dd	0.8	0.8	0.8	0.0	0.007	360	1.0	0.26	0.0
1021	NW_0864dd	0.866	0.866	0.866	0.0	0.024	360	1.0	0.179	0.0
1022	NW_0934dd	0.933	0.933	0.933	0.0	0.005	360	1.0	0.084	0.0
1023	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
1024	NW_0000dd	0.0	0.0	0.0	0.0	0.139	360	1.0	0.933	0.0
1025	NW_0064dd	0.066	0.066	0.066	0.0	0.043	360	1.0	0.871	0.0
1026	NW_0134dd	0.133	0.133	0.133	0.0	0.043	360	1.0	0.871	0.0
1027	NW_0204dd	0.2	0.2	0.2	0.0	0.057	360	1.0	0.825	0.0
1028	NW_0264dd	0.266	0.266	0.266	0.0	0.013	360	1.0	0.781	0.0
1029	NW_0334dd	0.333	0.333	0.333	0.0	0.016	360	1.0	0.731	0.0
1030	NW_0404dd	0.4	0.4	0.4	0.0	0.027	360	1.0	0.672	0.0
1031	NW_0464dd	0.466	0.466	0.466	0.0	0.021	360	1.0	0.628	0.0
1032	NW_0534dd	0.533	0.533	0.533	0.0	0.006	360	1.0	0.541	0.0
1033	NW_0604dd	0.6	0.6	0.6	0.0	0.006	360	1.0	0.478	0.0
1034	NW_0664dd	0.666	0.666	0.666	0.0	0.005	360	1.0	0.405	0.0
1035	NW_0734dd	0.734	0.734	0.734	0.0	0.021	360	1.0	0.322	0.0
1036	NW_0804dd	0.8	0.8	0.8	0.0	0.007	360	1.0	0.26	0.0
1037	NW_0864dd	0.866	0.866	0.866	0.0	0.024	360	1.0	0.179	0.0
1038	NW_0934dd	0.933	0.933	0.933	0.0	0.002	360	1.0	0.084	0.0
1039	NW_1004dd	1.0	1.0	1.0	0.0	0.0	360	1.0	1.0	0.0
1040	NW_0000dd	0.0	0.0	0.0	0.0	0.139	360	1.0	0.933	0.0
1041	NW_0064dd	0.066	0.066	0.066	0.0	0.043	360	1.0	0.871	0.0
1042	NW_0134dd	0.133	0.133	0.133	0.0	0.043	360	1.0	0.871	0.0
1043	NW_0204dd	0.2	0.2	0.2	0.0	0.057	360	1.0	0.825	0.0
1044	NW_0264dd	0.266	0.266	0.266	0.0	0.013	360	1.0	0.781	0.0
1045	NW_0334dd	0.333	0.333	0.333	0.0	0.016	360	1.0	0.731	0.0
1046	NW_0404dd	0.4	0.4	0.4	0.0	0.027	360	1.0	0.672	0.0
1047	NW_0464dd	0.466	0.466	0.466	0.0	0.021	360	1.0	0.628	0.0
1048	NW_0534dd	0.533	0.533	0.533	0.0	0.006	360	1.0	0.541	0.0
1049	NW_0604dd	0.6	0.6	0.6	0.0	0.006	360	1.0	0.478	0.0
1050	NW_0664dd	0.666	0.666	0.666	0.0	0.005	360	1.0	0.405	0.0
1051	NW_0734dd	0.734	0.734	0.734	0.0	0.021	360	1.0	0.322	0.0
1052	NW_0804dd	0.8	0.8	0.8	0.0	0.007	360	1.0	0.26	0.0

n	HC*Fid	rgb*Fid	lct*Fid	hsa*Fid	rgb*Fid	LabCH*Fid	cmyn*sep,Fid	hsv*Fid	rgb*Fid	LabCH*Fid	delta
1053	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	85.0 0.0 0.0	0.024 0.007 0.000	0.179 0.0 0.084	360 1.0 1.0	95.4 0.0 0.0	0.0
1054	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	90.2 0.0 0.0	0.02 0.005 0.000	0.0 0.0 0.084	360 1.0 1.0	95.4 0.0 0.0	0.0
1055	NW_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1056	NW_100dd	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	22.8 0.0 0.0	0.139 0.022 0.000	0.0 0.0 0.933	360 1.0 1.0	95.4 0.0 0.0	0.0
1057	NW_013dd	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	28.0 0.0 0.0	0.0 0.043 0.048	0.0871 0.0 0.825	360 1.0 1.0	95.4 0.0 0.0	0.0
1058	NW_026dd	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	33.2 0.0 0.0	0.057 0.036 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1059	NW_026dd	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	43.6 0.0 0.0	0.013 0.015 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1060	NW_026dd	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	48.8 0.0 0.0	0.016 0.016 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1061	NW_046dd	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	53.9 0.0 0.0	0.019 0.018 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1062	NW_053dd	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	59.1 0.0 0.0	0.021 0.021 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1063	NW_053dd	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	64.3 0.0 0.0	0.006 0.006 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1064	NW_066dd	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	69.5 0.0 0.0	0.006 0.006 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1065	NW_066dd	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	74.7 0.0 0.0	0.021 0.021 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1066	NW_073dd	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	79.9 0.0 0.0	0.007 0.007 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1067	NW_086dd	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	85.0 0.0 0.0	0.024 0.024 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1068	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	90.2 0.0 0.0	0.007 0.007 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1069	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	95.4 0.0 0.0	0.005 0.005 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1070	NW_093dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	100.0 0.0 0.0	0.002 0.002 0.000	0.0 0.0825 0.0871	360 1.0 1.0	95.4 0.0 0.0	0.0
1071	NW_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	105.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1072	NW_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	110.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1073	ROY_100_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	116.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1074	G50B_100_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	121.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1075	G50B_100_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	127.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1076	Y06C_100_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	132.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1077	Y06C_100_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	137.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1078	B08C_100_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	143.2 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0
1079	B08C_100_100dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	148.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 1.0	360 1.0 1.0	95.4 0.0 0.0	0.0