

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 139/360 = 0.38$

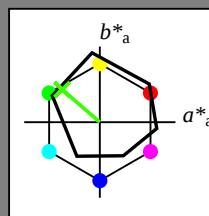
Data for any device (d) or elementary (e) colour:

$HIC^*$

hue text for the colours of this page:

$H^*_- = Y75G_-$

triangle lightness  $T^*$



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

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 62 -49 43 65 139

$HIC^*_{-,Ma}$ : Y75G<sub>100\_100</sub>

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

0.23 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

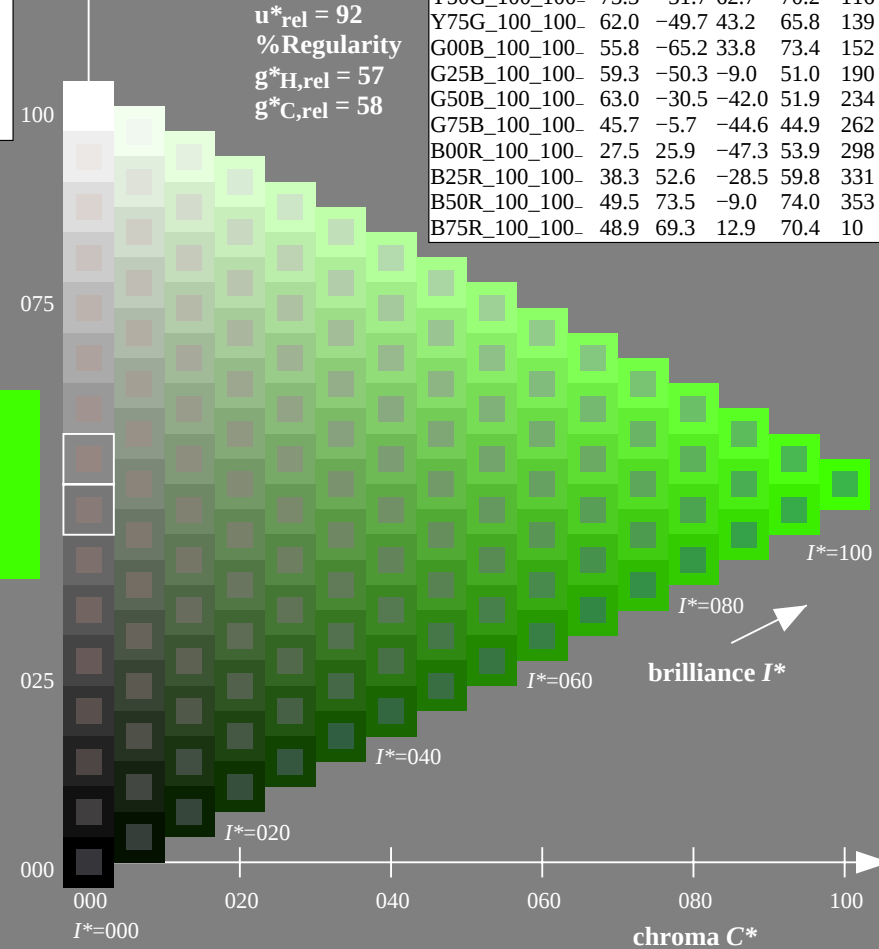
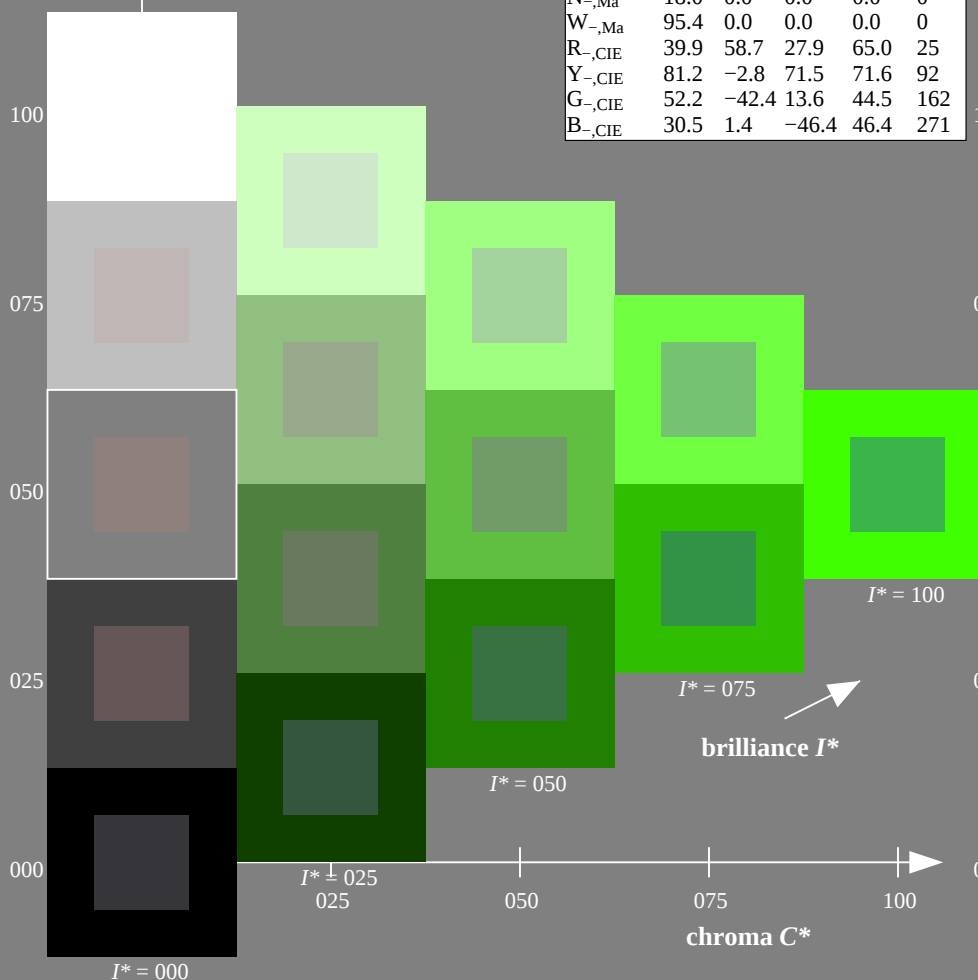
$u^*_{rel} = 92$

% 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 <sub>100_100</sub>         | 48.4              | 66.1    | 40.2         | 77.3         | 31  |
| R25Y <sub>100_100</sub>         | 56.8              | 48.0    | 50.5         | 69.6         | 46  |
| R50Y <sub>100_100</sub>         | 68.6              | 25.0    | 63.9         | 68.6         | 68  |
| R75Y <sub>100_100</sub>         | 80.6              | 4.8     | 77.2         | 77.3         | 86  |
| Y00G <sub>100_100</sub>         | 90.2              | -9.6    | 88.2         | 88.7         | 96  |
| Y25G <sub>100_100</sub>         | 83.2              | -18.4   | 79.9         | 81.9         | 102 |
| Y50G <sub>100_100</sub>         | 73.3              | -31.7   | 62.7         | 70.2         | 116 |
| Y75G <sub>100_100</sub>         | 62.0              | -49.7   | 43.2         | 65.8         | 139 |
| G00B <sub>100_100</sub>         | 55.8              | -65.2   | 33.8         | 73.4         | 152 |
| G25B <sub>100_100</sub>         | 59.3              | -50.3   | -9.0         | 51.0         | 190 |
| G50B <sub>100_100</sub>         | 63.0              | -30.5   | -42.0        | 51.9         | 234 |
| G75B <sub>100_100</sub>         | 45.7              | -5.7    | -44.6        | 44.9         | 262 |
| B00R <sub>100_100</sub>         | 27.5              | 25.9    | -47.3        | 53.9         | 298 |
| B25R <sub>100_100</sub>         | 38.3              | 52.6    | -28.5        | 59.8         | 331 |
| B50R <sub>100_100</sub>         | 49.5              | 73.5    | -9.0         | 74.0         | 353 |
| B75R <sub>100_100</sub>         | 48.9              | 69.3    | 12.9         | 70.4         | 10  |



TUB-test chart QE67; hue code:  $H^*_- = Y75G_-$   
Test chart according to DIN 33872, 3D=1, de=0,  $cm y0^*$

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

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 136/360 = 0.37$

$H^*_d = Y75G_d$

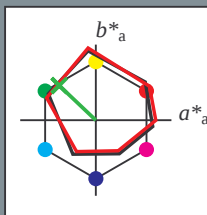
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours of this page:

$H^*_d = Y75G_d$

triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>d</sub> ,Ma              | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| Y <sub>d</sub> ,Ma              | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| G <sub>d</sub> ,Ma              | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| C <sub>d</sub> ,Ma              | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| B <sub>d</sub> ,Ma              | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| M <sub>d</sub> ,Ma              | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| N <sub>d</sub> ,Ma              | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>d</sub> ,Ma              | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>d</sub> ,CIE             | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>d</sub> ,CIE             | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>d</sub> ,CIE             | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>d</sub> ,CIE             | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_d, Ma$ : 57 -48 45 66 136

$HIC^*_d, Ma$ : Y75G\_100\_100d

$rgbic^*_d, Ma$ :

0.23 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

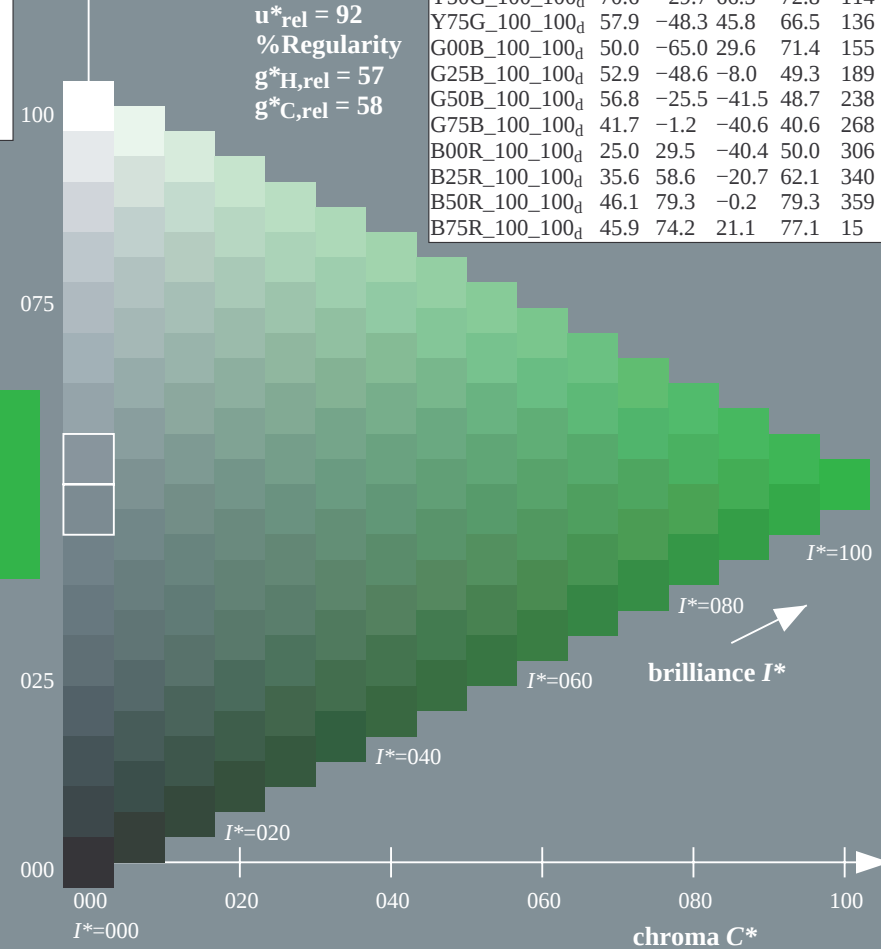
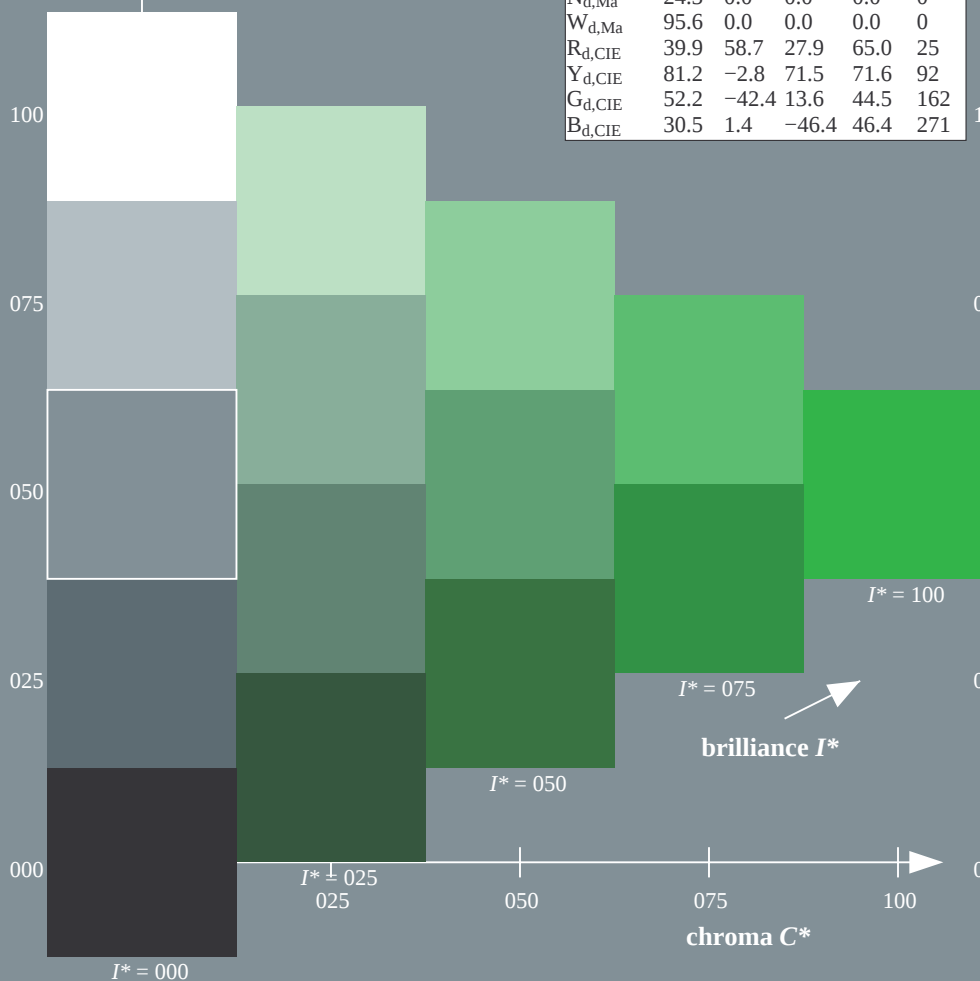
$u^*_{rel} = 92$

% 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                   | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| R25Y_100_100d                   | 53.0        | 53.4    | 54.8    | 76.5         | 45           |
| R50Y_100_100d                   | 64.9        | 28.9    | 68.6    | 74.5         | 67           |
| R75Y_100_100d                   | 78.6        | 4.3     | 84.7    | 84.8         | 87           |
| Y00G_100_100d                   | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| Y25G_100_100d                   | 81.2        | -17.0   | 84.3    | 86.0         | 101          |
| Y50G_100_100d                   | 70.6        | -29.7   | 66.5    | 72.8         | 114          |
| Y75G_100_100d                   | 57.9        | -48.3   | 45.8    | 66.5         | 136          |
| G00B_100_100d                   | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| G25B_100_100d                   | 52.9        | -48.6   | -8.0    | 49.3         | 189          |
| G50B_100_100d                   | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| G75B_100_100d                   | 41.7        | -1.2    | -40.6   | 40.6         | 268          |
| B00R_100_100d                   | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| B25R_100_100d                   | 35.6        | 58.6    | -20.7   | 62.1         | 340          |
| B50R_100_100d                   | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| B75R_100_100d                   | 45.9        | 74.2    | 21.1    | 77.1         | 15           |



TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
Test chart according to DIN 33872, 3D=1, de=0,  $cmY0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmY0^*_{dd}$

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cmY0^*$  (CMY0)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 136/360 = 0.37$

$H^*_d = Y75G_d$

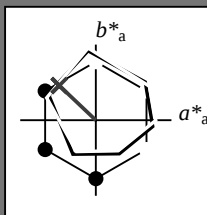
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours of this page:

$H^*_d = Y75G_d$

triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>d</sub> ,Ma              | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| Y <sub>d</sub> ,Ma              | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| G <sub>d</sub> ,Ma              | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| C <sub>d</sub> ,Ma              | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| B <sub>d</sub> ,Ma              | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| M <sub>d</sub> ,Ma              | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| N <sub>d</sub> ,Ma              | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>d</sub> ,Ma              | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>d</sub> ,CIE             | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>d</sub> ,CIE             | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>d</sub> ,CIE             | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>d</sub> ,CIE             | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$ : 57 -48 45 66 136

$HIC^*_{d,Ma}$ : Y75G\_100\_100d

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

0.23 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

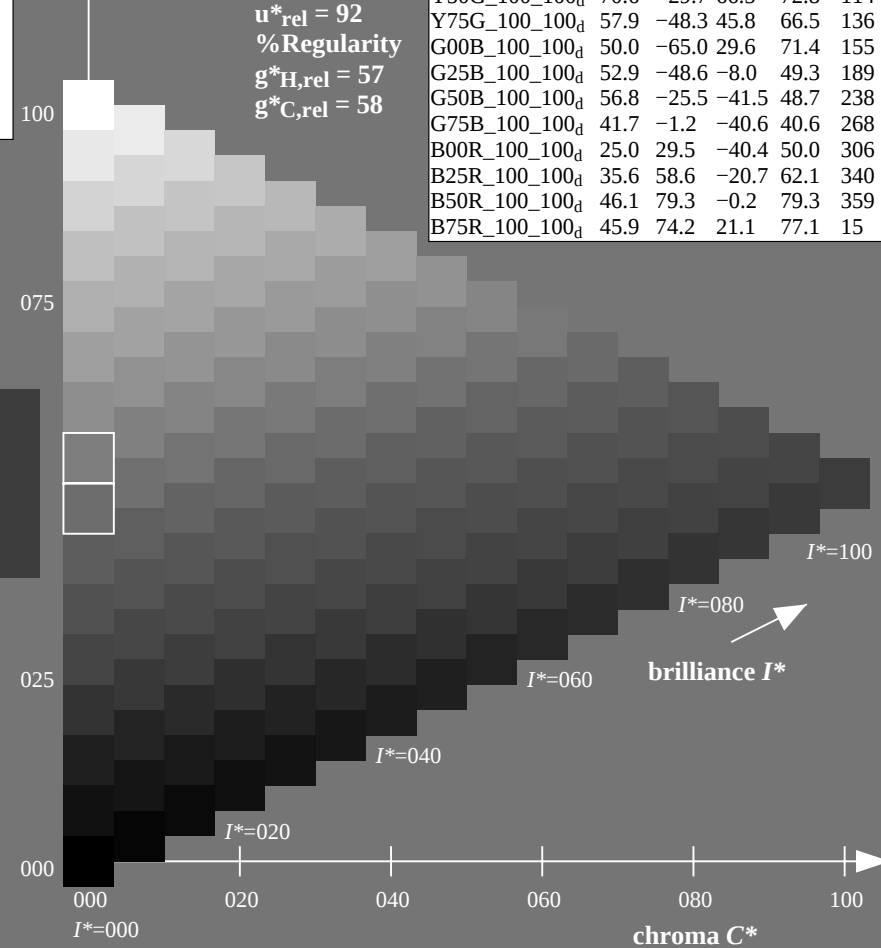
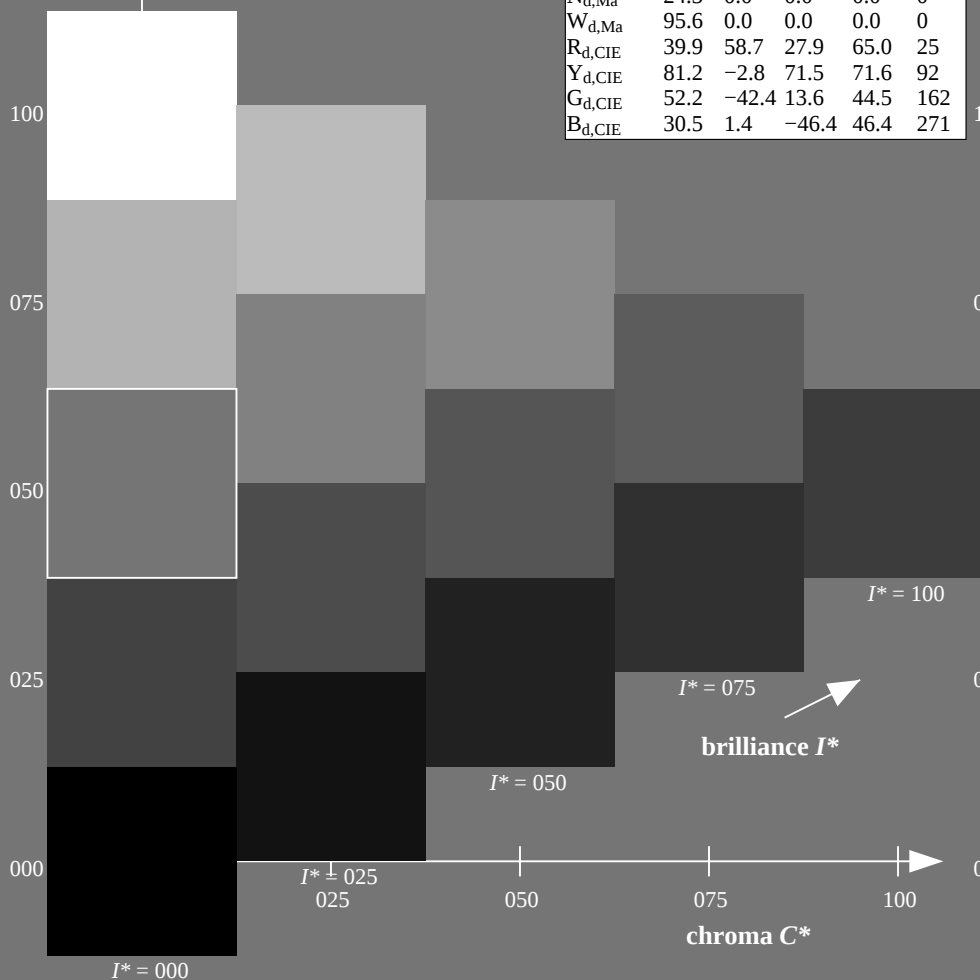
$u^*_{rel} = 92$

% 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                   | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| R25Y_100_100d                   | 53.0        | 53.4    | 54.8    | 76.5         | 45           |
| R50Y_100_100d                   | 64.9        | 28.9    | 68.6    | 74.5         | 67           |
| R75Y_100_100d                   | 78.6        | 4.3     | 84.7    | 84.8         | 87           |
| Y00G_100_100d                   | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| Y25G_100_100d                   | 81.2        | -17.0   | 84.3    | 86.0         | 101          |
| Y50G_100_100d                   | 70.6        | -29.7   | 66.5    | 72.8         | 114          |
| Y75G_100_100d                   | 57.9        | -48.3   | 45.8    | 66.5         | 136          |
| G00B_100_100d                   | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| G25B_100_100d                   | 52.9        | -48.6   | -8.0    | 49.3         | 189          |
| G50B_100_100d                   | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| G75B_100_100d                   | 41.7        | -1.2    | -40.6   | 40.6         | 268          |
| B00R_100_100d                   | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| B25R_100_100d                   | 35.6        | 58.6    | -20.7   | 62.1         | 340          |
| B50R_100_100d                   | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| B75R_100_100d                   | 45.9        | 74.2    | 21.1    | 77.1         | 15           |



TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
Test chart according to DIN 33872, 3D=1, de=0,  $cmy0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cmy0^*$  (CMY0)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 136/360 = 0.37$

$H^*_d = Y75G_d$

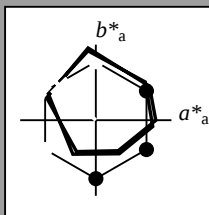
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours of this page:

$H^*_d = Y75G_d$

triangle lightness  $T^*$



ORS20a; adapted (a) CIELAB data

| name        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------|---------|---------|--------------|--------------|
| $R_{d,Ma}$  | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| $Y_{d,Ma}$  | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| $G_{d,Ma}$  | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| $C_{d,Ma}$  | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| $B_{d,Ma}$  | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| $M_{d,Ma}$  | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| $N_{d,Ma}$  | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{d,Ma}$  | 95.6        | 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):

$LabCh^*_{d,Ma}$ : 57 -48 45 66 136

$HIC^*_{d,Ma}$ : Y75G\_100\_100d

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

0.23 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 92$

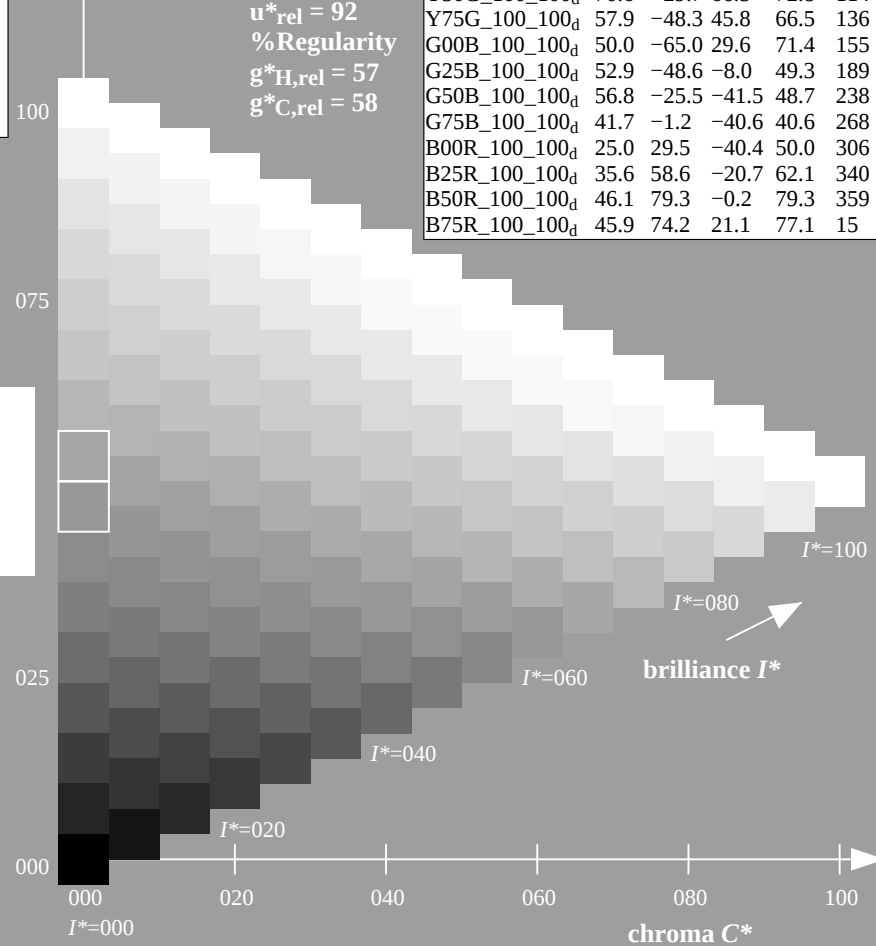
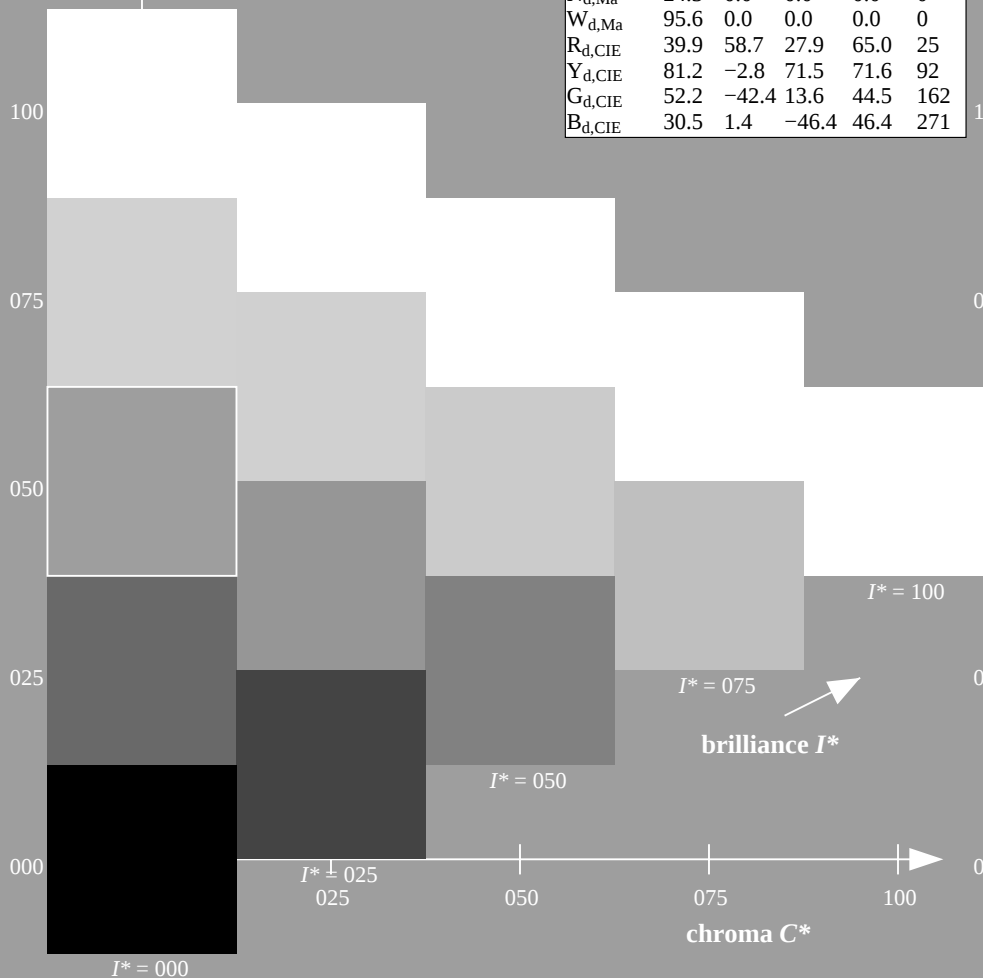
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

| $H^*_d$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y\_100\_100_d$ | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| $R25Y\_100\_100_d$ | 53.0        | 53.4    | 54.8    | 76.5         | 45           |
| $R50Y\_100\_100_d$ | 64.9        | 28.9    | 68.6    | 74.5         | 67           |
| $R75Y\_100\_100_d$ | 78.6        | 4.3     | 84.7    | 84.8         | 87           |
| $Y00G\_100\_100_d$ | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| $Y25G\_100\_100_d$ | 81.2        | -17.0   | 84.3    | 86.0         | 101          |
| $Y50G\_100\_100_d$ | 70.6        | -29.7   | 66.5    | 72.8         | 114          |
| $Y75G\_100\_100_d$ | 57.9        | -48.3   | 45.8    | 66.5         | 136          |
| $G00B\_100\_100_d$ | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| $G25B\_100\_100_d$ | 52.9        | -48.6   | -8.0    | 49.3         | 189          |
| $G50B\_100\_100_d$ | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| $G75B\_100\_100_d$ | 41.7        | -1.2    | -40.6   | 40.6         | 268          |
| $B00R\_100\_100_d$ | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| $B25R\_100\_100_d$ | 35.6        | 58.6    | -20.7   | 62.1         | 340          |
| $B50R\_100\_100_d$ | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| $B75R\_100\_100_d$ | 45.9        | 74.2    | 21.1    | 77.1         | 15           |



TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
Test chart according to DIN 33872, 3D=1, de=0,  $cmY0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmY0^*_{dd}$

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 136/360 = 0.37$

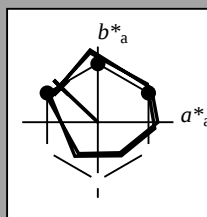
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours  
of this page:

$H^*_d = Y75G_d$

triangle lightness  $T^*$



ORS20a; adapted (a) CIELAB data

| name        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------|---------|---------|--------------|--------------|
| $R_{d,Ma}$  | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| $Y_{d,Ma}$  | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| $G_{d,Ma}$  | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| $C_{d,Ma}$  | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| $B_{d,Ma}$  | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| $M_{d,Ma}$  | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| $N_{d,Ma}$  | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{d,Ma}$  | 95.6        | 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):

$LabCh^*_{d,Ma}$ : 57 -48 45 66 136

$HIC^*_{d,Ma}$ : Y75G\_100\_100d

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

0.23 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 92$

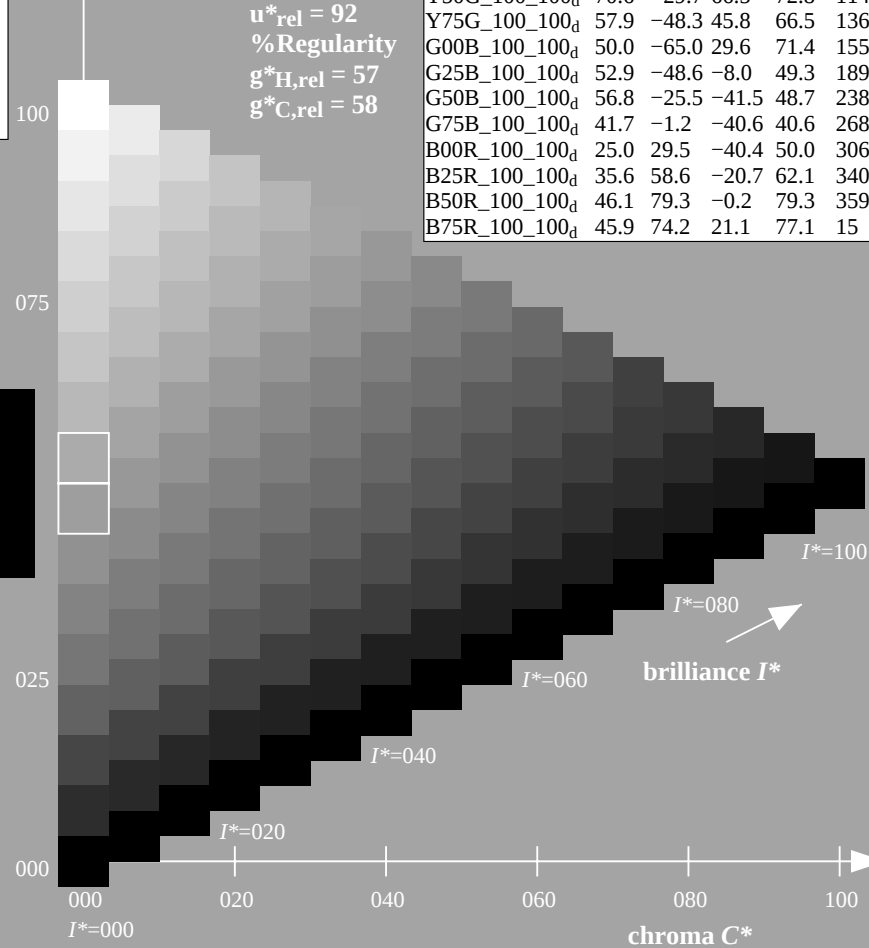
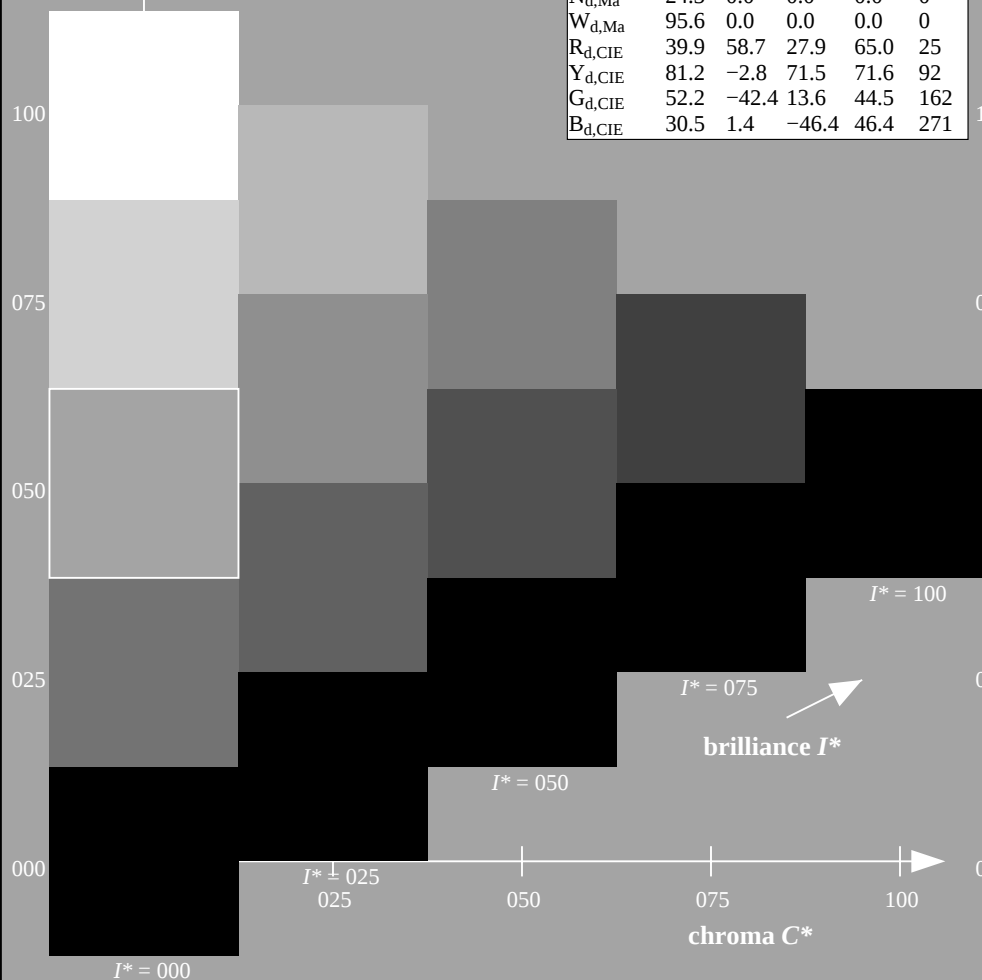
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

| $H^*_d$           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------------|-------------|---------|---------|--------------|--------------|
| $R00Y_{100_100d}$ | 45.4        | 70.9    | 44.8    | 83.9         | 32           |
| $R25Y_{100_100d}$ | 53.0        | 53.4    | 54.8    | 76.5         | 45           |
| $R50Y_{100_100d}$ | 64.9        | 28.9    | 68.6    | 74.5         | 67           |
| $R75Y_{100_100d}$ | 78.6        | 4.3     | 84.7    | 84.8         | 87           |
| $Y00G_{100_100d}$ | 87.8        | -10.2   | 95.4    | 96.0         | 96           |
| $Y25G_{100_100d}$ | 81.2        | -17.0   | 84.3    | 86.0         | 101          |
| $Y50G_{100_100d}$ | 70.6        | -29.7   | 66.5    | 72.8         | 114          |
| $Y75G_{100_100d}$ | 57.9        | -48.3   | 45.8    | 66.5         | 136          |
| $G00B_{100_100d}$ | 50.0        | -65.0   | 29.6    | 71.4         | 155          |
| $G25B_{100_100d}$ | 52.9        | -48.6   | -8.0    | 49.3         | 189          |
| $G50B_{100_100d}$ | 56.8        | -25.5   | -41.5   | 48.7         | 238          |
| $G75B_{100_100d}$ | 41.7        | -1.2    | -40.6   | 40.6         | 268          |
| $B00R_{100_100d}$ | 25.0        | 29.5    | -40.4   | 50.0         | 306          |
| $B25R_{100_100d}$ | 35.6        | 58.6    | -20.7   | 62.1         | 340          |
| $B50R_{100_100d}$ | 46.1        | 79.3    | -0.2    | 79.3         | 359          |
| $B75R_{100_100d}$ | 45.9        | 74.2    | 21.1    | 77.1         | 15           |



1-103431-L0 QE670-72

TUB-test chart QE67; hue code:  $H^*_d = Y75G_d$

Test chart according to DIN 33872, 3D=1, de=0,  $cmY0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$

output: 3D-linearization to  $cmY0^*_{dd}$

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cmY0^*$  (CMY0)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE67/QE67L0FP.PDF /.PS; 3D-linearization  
F: 3D-linearization QE67/QE67LE30FP.DAT in file (F), page 6/33

see similar files: <http://130.149.60.45/~farbmetrik/QE67/QE67.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

1-103531-L0 QE670-72

TUB-test chart QE67; hue code:  $H_d^* = Y75G_d$   
Test chart according to DIN 33872, 3D=1,  $de=0$ ,  $cmY0^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmY0^*_{dd}$

1-103531-E0

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours  $RYGCBM_d$ :  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$  Yellow

$LCH^*_d = 87.8 \ 96.0 \ 96.1$   
 $LAB^*_d = 87.8 \ -10.2 \ 95.4$   
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$  leaf-green

$LCH^*_d = 50.0 \ 71.4 \ 155.5$   
 $LAB^*_d = 50.0 \ -65.0 \ 29.6$   
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$  cyan-blue

$LCH^*_d = 56.8 \ 48.7 \ 238.4$   
 $LAB^*_d = 56.8 \ -25.5 \ -41.5$   
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$  orange-red

$LCH^*_d = 45.4 \ 83.9 \ 32.3$   
 $LAB^*_d = 45.4 \ 70.9 \ 44.8$   
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$  magenta-red

$LCH^*_d = 46.1 \ 79.3 \ 359.8$   
 $LAB^*_d = 46.1 \ 79.3 \ -0.2$   
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$  violet-blue

$LCH^*_d = 25.0 \ 50.0 \ 306.2$   
 $LAB^*_d = 25.0 \ 29.5 \ -40.4$   
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

$Y_e$  yellow

$LCH^*_e = 83.6 \ 90.4 \ 92.3$   
 $LAB^*_e = 83.6 \ -3.6 \ 90.4$   
 $rgb^*_{de} = 1.0 \ 0.878 \ 0.0$

$G_e$  green

$LCH^*_e = 50.6 \ 65.2 \ 162.2$   
 $LAB^*_e = 50.6 \ -62.1 \ 19.9$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.151$

$C_e$  blue-green

$LCH^*_e = 55.0 \ 45.3 \ 216.9$   
 $LAB^*_e = 55.0 \ -36.2 \ -27.2$   
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.747$

$B_e$  blue

$LCH^*_e = 40.2 \ 40.6 \ 271.7$   
 $LAB^*_e = 40.2 \ 1.2 \ -40.6$   
 $rgb^*_{de} = 0.0 \ 0.458 \ 1.0$

$R_e$  red

$LCH^*_e = 45.6 \ 80.0 \ 25.4$   
 $LAB^*_e = 45.6 \ 72.2 \ 34.4$   
 $rgb^*_{de} = 1.0 \ 0.0 \ 0.254$

$M_e$  blue-red

$LCH^*_e = 31.1 \ 55.9 \ 328.6$   
 $LAB^*_e = 31.1 \ 47.7 \ -29.1$   
 $rgb^*_{de} = 0.321 \ 0.0 \ 1.0$

$Y_s$  yellow

$LCH^*_s = 81.4 \ 87.9 \ 90.0$   
 $LAB^*_s = 81.4 \ 0.0 \ 87.9$   
 $rgb^*_{ds} = 1.0 \ 0.828 \ 0.0$

$G_s$  green

$LCH^*_s = 52.3 \ 68.9 \ 150.0$   
 $LAB^*_s = 52.3 \ -59.6 \ 34.4$   
 $rgb^*_{ds} = 0.062 \ 1.0 \ 0.0$

$C_s$  blue-green

$LCH^*_s = 54.5 \ 45.7 \ 210.0$   
 $LAB^*_s = 54.5 \ -39.6 \ -22.8$   
 $rgb^*_{ds} = 0.0 \ 1.0 \ 0.685$

$B_s$  blue

$LCH^*_s = 40.9 \ 40.6 \ 270.0$   
 $LAB^*_s = 40.9 \ 0.0 \ -40.6$   
 $rgb^*_{ds} = 0.0 \ 0.479 \ 1.0$

$R_s$  red

$LCH^*_s = 45.5 \ 82.4 \ 30.0$   
 $LAB^*_s = 45.5 \ 71.3 \ 41.2$   
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.096$

$M_s$  blue-red

$LCH^*_s = 31.6 \ 56.5 \ 330.0$   
 $LAB^*_s = 31.6 \ 49.0 \ -28.2$   
 $rgb^*_{ds} = 0.337 \ 0.0 \ 1.0$

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

1. For the  $rgb^*_e$ -input values the CIELAB data  $LCH^*_e$  and  $LAB^*_e$  have been calculated.

2. For the calculation of the standard hue angle  $h_{ab,s}$  use for any device values  $rgb^*_e$  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 5 or 1 to 4.

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

1-103631-L0 QE670-72 LAB\*La0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB\*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
48 step hue circles;  $rgb-LabCh^*$ -tables

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

Output: Offset standard print; separation cmy0\*, D65, page 7/33

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours  $RYGCBM_d$ :  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd64M}$ | $LAB^*_{ddx64M}$ (x=LabCh) | $rgb^*_{ddx361M}$ | $LAB^*_{ddx361M}$ (x=LabCh) | $rgb^*_{dsx361M}$ | $LAB^*_{dsx361M}$ (x=LabCh) | $rgb^*_{dex361M}$ | $LAB^*_{dex361M}$ |       |       |       |      |       |       |      |     |       |       |       |        |       |       |      |     |       |       |       |      |       |       |      |     |
|------------|------------|------------|-----------------|----------------------------|-------------------|-----------------------------|-------------------|-----------------------------|-------------------|-------------------|-------|-------|-------|------|-------|-------|------|-----|-------|-------|-------|--------|-------|-------|------|-----|-------|-------|-------|------|-------|-------|------|-----|
| 32.3       | 30.0       | 25.4       | 1.0             | 0.0                        | 0.0               | 45.4                        | 70.9              | 44.8                        | 83.9              | 32.3              | 1.0   | 0.0   | 0.0   | 45.5 | 70.9  | 44.9  | 83.9 | 32  | 1.0   | 0.0   | 0.096 | 45.5   | 71.4  | 41.2  | 82.4 | 30  | 1.0   | 0.0   | 0.255 | 45.7 | 72.2  | 34.4  | 80.0 | 25  |
| 38.1       | 37.5       | 33.8       | 1.0             | 0.125                      | 0.0               | 48.9                        | 62.8              | 49.4                        | 79.9              | 38.1              | 1.0   | 0.117 | 0.0   | 48.7 | 63.4  | 49.1  | 80.2 | 37  | 1.0   | 0.1   | 0.0   | 48.2   | 64.5  | 48.6  | 80.7 | 37  | 1.0   | 0.021 | 0.0   | 46.0 | 69.6  | 45.7  | 83.3 | 33  |
| 46.8       | 45.0       | 42.1       | 1.0             | 0.25                       | 0.0               | 53.6                        | 51.9              | 55.5                        | 76.0              | 46.8              | 1.0   | 0.25  | 0.0   | 53.7 | 52.0  | 55.5  | 76.0 | 46  | 1.0   | 0.223 | 0.0   | 52.7   | 54.4  | 54.4  | 76.9 | 45  | 1.0   | 0.183 | 0.0   | 51.1 | 57.9  | 52.5  | 78.1 | 42  |
| 56.9       | 52.5       | 50.5       | 1.0             | 0.375                      | 0.0               | 59.1                        | 40.3              | 62.0                        | 74.0              | 56.9              | 1.0   | 0.367 | 0.0   | 58.8 | 41.1  | 61.7  | 74.2 | 56  | 1.0   | 0.313 | 0.0   | 56.5   | 46.2  | 59.1  | 75.0 | 52  | 1.0   | 0.288 | 0.0   | 55.4 | 48.5  | 57.8  | 75.4 | 49  |
| 67.1       | 60.0       | 58.8       | 1.0             | 0.5                        | 0.0               | 64.9                        | 28.9              | 68.6                        | 74.5              | 67.1              | 1.0   | 0.5   | 0.0   | 64.9 | 28.9  | 68.7  | 74.5 | 67  | 1.0   | 0.412 | 0.0   | 60.9   | 37.1  | 64.2  | 74.2 | 60  | 1.0   | 0.398 | 0.0   | 60.3 | 38.3  | 63.5  | 74.1 | 58  |
| 78.6       | 67.5       | 67.2       | 1.0             | 0.625                      | 0.0               | 72.1                        | 15.4              | 77.1                        | 78.6              | 78.6              | 1.0   | 0.617 | 0.0   | 71.6 | 16.5  | 76.7  | 78.4 | 77  | 1.0   | 0.498 | 0.0   | 64.8   | 29.1  | 68.6  | 74.5 | 67  | 1.0   | 0.494 | 0.0   | 64.6 | 29.5  | 68.4  | 74.5 | 66  |
| 86.2       | 75.0       | 75.6       | 1.0             | 0.75                       | 0.0               | 77.9                        | 5.4               | 83.8                        | 84.0              | 86.2              | 1.0   | 0.75  | 0.0   | 77.9 | 5.5   | 83.9  | 84.1 | 86  | 1.0   | 0.585 | 0.0   | 69.8   | 20.0  | 74.7  | 77.4 | 75  | 1.0   | 0.592 | 0.0   | 70.2 | 19.3  | 75.2  | 77.6 | 75  |
| 92.1       | 82.5       | 83.9       | 1.0             | 0.875                      | 0.0               | 83.4                        | -3.4              | 90.2                        | 90.2              | 92.1              | 1.0   | 0.867 | 0.0   | 83.1 | -2.7  | 89.8  | 89.9 | 91  | 1.0   | 0.68  | 0.0   | 74.7   | 11.3  | 80.3  | 81.1 | 82  | 1.0   | 0.703 | 0.0   | 75.8 | 9.4   | 81.5  | 82.0 | 83  |
| 96.1       | 90.0       | 92.3       | 1.0             | 1.0                        | 0.0               | 87.8                        | -10.2             | 95.4                        | 96.0              | 96.1              | 1.0   | 1.0   | 0.0   | 87.8 | -10.1 | 95.5  | 96.0 | 96  | 1.0   | 0.829 | 0.0   | 81.4   | 0.0   | 88.0  | 88.0 | 90  | 1.0   | 0.879 | 0.0   | 83.6 | -3.6  | 90.4  | 90.5 | 92  |
| 98.8       | 97.5       | 101.0      | 0.875           | 1.0                        | 0.0               | 84.3                        | -13.9             | 89.2                        | 90.3              | 98.8              | 0.883 | 1.0   | 0.0   | 84.6 | -13.6 | 89.7  | 90.7 | 98  | 0.959 | 1.0   | 0.0   | 86.7   | -11.4 | 93.5  | 94.2 | 97  | 0.807 | 1.0   | 0.0   | 82.4 | -15.8 | 86.2  | 87.7 | 100 |
| 101.8      | 105.0      | 109.7      | 0.75            | 1.0                        | 0.0               | 80.7                        | -17.5             | 83.5                        | 85.3              | 101.8             | 0.75  | 1.0   | 0.0   | 80.8 | -17.4 | 83.6  | 85.4 | 101 | 0.682 | 1.0   | 0.0   | 77.8   | -21.2 | 79.4  | 82.2 | 105 | 0.583 | 1.0   | 0.0   | 73.7 | -26.1 | 72.7  | 77.3 | 109 |
| 107.6      | 112.5      | 118.5      | 0.625           | 1.0                        | 0.0               | 75.3                        | -24.0             | 75.7                        | 79.4              | 107.6             | 0.633 | 1.0   | 0.0   | 75.7 | -23.6 | 76.3  | 79.9 | 107 | 0.54  | 1.0   | 0.0   | 72.1   | -28.0 | 69.5  | 75.0 | 112 | 0.434 | 1.0   | 0.0   | 68.0 | -32.9 | 62.2  | 70.5 | 117 |
| 114.0      | 120.0      | 127.2      | 0.5             | 1.0                        | 0.0               | 70.6                        | -29.7             | 66.5                        | 72.8              | 114.0             | 0.5   | 1.0   | 0.0   | 70.6 | -29.6 | 66.5  | 72.8 | 114 | 0.399 | 1.0   | 0.0   | 66.7   | -34.5 | 59.9  | 69.2 | 120 | 0.322 | 1.0   | 0.0   | 62.6 | -40.8 | 53.8  | 67.6 | 127 |
| 121.4      | 127.5      | 136.0      | 0.375           | 1.0                        | 0.0               | 65.7                        | -35.6             | 58.3                        | 68.3              | 121.4             | 0.383 | 1.0   | 0.0   | 66.1 | -35.2 | 58.9  | 68.6 | 120 | 0.325 | 1.0   | 0.0   | 62.8   | -40.6 | 54.0  | 67.6 | 127 | 0.249 | 1.0   | 0.0   | 58.4 | -47.4 | 46.8  | 66.6 | 135 |
| 135.3      | 135.0      | 144.7      | 0.25            | 1.0                        | 0.0               | 58.4                        | -47.3             | 46.8                        | 66.6              | 135.3             | 0.25  | 1.0   | 0.0   | 58.4 | -47.3 | 46.9  | 66.6 | 135 | 0.253 | 1.0   | 0.0   | 58.6   | -47.0 | 47.1  | 66.7 | 135 | 0.122 | 1.0   | 0.0   | 54.6 | -54.2 | 38.4  | 66.5 | 144 |
| 144.4      | 142.5      | 153.4      | 0.125           | 1.0                        | 0.0               | 54.7                        | -53.9             | 38.5                        | 66.3              | 144.4             | 0.133 | 1.0   | 0.0   | 55.0 | -53.5 | 39.2  | 66.4 | 143 | 0.159 | 1.0   | 0.0   | 55.7   | -52.3 | 40.9  | 66.4 | 142 | 0.03  | 1.0   | 0.0   | 51.2 | -62.4 | 32.0  | 70.2 | 152 |
| 155.5      | 150.0      | 162.2      | 0.0             | 1.0                        | 0.0               | 50.0                        | -65.0             | 29.6                        | 71.4              | 155.5             | 0.0   | 1.0   | 0.0   | 50.1 | -64.9 | 29.6  | 71.4 | 155 | 0.062 | 1.0   | 0.0   | 52.4   | -59.6 | 34.5  | 68.9 | 150 | 0.0   | 1.0   | 0.151 | 50.7 | -62.0 | 19.9  | 65.2 | 162 |
| 160.7      | 157.5      | 169.0      | 0.0             | 1.0                        | 0.125             | 50.5                        | -62.8             | 21.9                        | 66.5              | 160.7             | 0.0   | 1.0   | 0.117 | 50.5 | -62.9 | 22.4  | 66.9 | 160 | 0.0   | 1.0   | 0.035 | 52.0   | -64.4 | 27.4  | 70.0 | 157 | 0.0   | 1.0   | 0.261 | 51.3 | -58.5 | 11.8  | 59.8 | 168 |
| 167.7      | 165.0      | 175.9      | 0.0             | 1.0                        | 0.25              | 51.2                        | -58.9             | 12.7                        | 60.3              | 167.7             | 0.0   | 1.0   | 0.25  | 51.2 | -58.8 | 12.7  | 60.3 | 167 | 0.0   | 1.0   | 0.2   | 51.0   | -60.5 | 16.2  | 62.8 | 165 | 0.0   | 1.0   | 0.364 | 52.0 | -55.0 | 3.9   | 55.2 | 175 |
| 176.7      | 172.5      | 182.7      | 0.0             | 1.0                        | 0.375             | 52.0                        | -54.5             | 3.1                         | 54.6              | 176.7             | 0.0   | 1.0   | 0.367 | 52.0 | -54.8 | 3.7   | 55.1 | 176 | 0.0   | 1.0   | 0.309 | 51.6   | -57.0 | 8.0   | 57.7 | 172 | 0.0   | 1.0   | 0.43  | 52.5 | -52.2 | -2.0  | 52.3 | 182 |
| 189.3      | 180.0      | 189.6      | 0.0             | 1.0                        | 0.5               | 52.9                        | -48.6             | -8.0                        | 49.3              | 189.3             | 0.0   | 1.0   | 0.5   | 53.0 | -48.6 | -7.9  | 49.3 | 189 | 0.0   | 1.0   | 0.407 | 52.3   | -53.2 | 0.0   | 53.3 | 180 | 0.0   | 1.0   | 0.502 | 53.0 | -48.5 | -8.1  | 49.3 | 189 |
| 203.2      | 187.5      | 196.4      | 0.0             | 1.0                        | 0.625             | 54.0                        | -42.3             | -18.1                       | 46.1              | 203.2             | 0.0   | 1.0   | 0.617 | 54.0 | -42.8 | -17.5 | 46.3 | 202 | 0.0   | 1.0   | 0.477 | 52.8   | -49.9 | -6.0  | 50.3 | 187 | 0.0   | 1.0   | 0.56  | 53.5 | -45.9 | -13.1 | 47.8 | 195 |
| 217.2      | 195.0      | 203.2      | 0.0             | 1.0                        | 0.75              | 55.0                        | -36.0             | -27.4                       | 45.3              | 217.2             | 0.0   | 1.0   | 0.75  | 55.0 | -35.9 | -27.3 | 45.3 | 217 | 0.0   | 1.0   | 0.551 | 53.4   | -46.3 | -12.3 | 48.0 | 195 | 0.0   | 1.0   | 0.626 | 54.1 | -42.3 | -18.1 | 46.1 | 203 |
| 228.3      | 202.5      | 210.1      | 0.0             | 1.0                        | 0.875             | 55.8                        | -30.7             | -34.5                       | 46.2              | 228.3             | 0.0   | 1.0   | 0.867 | 55.8 | -31.0 | -34.0 | 46.1 | 227 | 0.0   | 1.0   | 0.614 | 54.0   | -42.9 | -17.3 | 46.4 | 202 | 0.0   | 1.0   | 0.682 | 54.5 | -39.6 | -22.6 | 45.7 | 209 |
| 238.4      | 210.0      | 216.9      | 0.0             | 1.0                        | 1.0               | 56.8                        | -25.5             | -41.5                       | 48.7              | 238.4             | 0.0   | 1.0   | 1.0   | 56.8 | -25.4 | -41.4 | 48.7 | 238 | 0.0   | 1.0   | 0.685 | 54.5   | -39.5 | -22.8 | 45.7 | 210 | 0.0   | 1.0   | 0.747 | 55.0 | -36.1 | -27.2 | 45.3 | 216 |
| 242.9      | 217.5      | 223.8      | 0.0             | 0.875                      | 1.0               | 54.1                        | -21.1             | -41.3                       | 46.4              | 242.9             | 0.0   | 0.883 | 1.0   | 54.3 | -21.4 | -41.3 | 46.6 | 242 | 0.0   | 1.0   | 0.747 | 55.0   | -36.1 | -27.2 | 45.3 | 217 | 0.0   | 1.0   | 0.819 | 55.5 | -33.2 | -31.3 | 45.8 | 223 |
| 249.3      | 225.0      | 230.6      | 0.0             | 0.75                       | 1.0               | 50.4                        | -15.5             | -41.0                       | 43.9              | 249.3             | 0.0   | 0.75  | 1.0   | 50.4 | -15.4 | -41.0 | 44.0 | 249 | 0.0   | 1.0   | 0.837 | 55.6   | -32.4 | -32.4 | 45.9 | 225 | 0.0   | 1.0   | 0.904 | 56.1 | -29.6 | -36.1 | 46.8 | 230 |
| 256.9      | 232.5      | 237.5      | 0.0             | 0.625                      | 1.0               | 46.5                        | -9.4              | -40.8                       | 41.9              | 256.9             | 0.0   | 0.633 | 1.0   | 46.8 | -9.8  | -40.8 | 42.1 | 256 | 0.0   | 1.0   | 0.92  | 56.2   | -28.9 | -37.0 | 47.1 | 232 | 0.0   | 1.0   | 0.983 | 56.7 | -26.2 | -40.5 | 48.4 | 237 |
| 268.2      | 240.0      | 244.3      | 0.0             | 0.5                        | 1.0               | 41.7                        | -1.2              | -40.6                       | 40.6              | 268.2             | 0.0   | 0.5   | 1.0   | 41.7 | -1.1  | -40.6 | 40.7 | 268 | 0.0   | 0.956 | 1.0   | 55.9   | -23.9 | -41.4 | 48.0 | 240 | 0.0   | 0.847 | 1.0   | 53.3 | -19.8 | -41.3 | 45.9 | 244 |
| 278.6      | 247.5      | 251.2      | 0.0             | 0.375                      | 1.0               | 37.3                        | 6.1               | -40.2                       | 40.7              | 278.6             | 0.0   | 0.383 | 1.0   | 37.6 | 5.6   | -40.2 | 40.7 | 277 | 0.0   | 0.795 | 1.0   | 51.8   | -17.4 | -41.2 | 44.9 | 247 | 0.0   | 0.726 | 1.0   | 49.7 | -14.3 | -41.1 | 43.6 | 250 |
| 289.6      | 255.0      | 258.0      | 0.0             | 0.25                       | 1.0               | 32.8                        | 14.3              | -40.2                       | 42.7              | 289.6             | 0.0   | 0.25  | 1.0   | 32.9 | 14.4  | -40.1 | 42.7 | 289 | 0.0   | 0.657 | 1.0   | 47.5   | -10.9 | -40.9 | 42.5 | 255 | 0.0   | 0.613 | 1.0   | 46.1 | -8.6  | -40.8 | 41.9 | 258 |
| 299.0      | 262.5      | 264.8      | 0.0             | 0.125                      | 1.0               | 28.6                        | 22.4              | -40.2                       | 46.1              | 299.0             | 0.0   | 0.133 | 1.0   | 28.9 | 21.9  | -40.2 | 45.9 | 298 | 0.0   | 0.569 | 1.0   | 44.4   | -5.7  | -40.9 | 41.4 | 262 | 0.0   | 0.542 | 1.0   | 43.4 | -3.9  | -40.8 | 41.1 | 264 |
| 306.2      | 270.0      | 271.7      | 0.0             | 0.0                        | 1.0               | 25.0                        | 29.5              | -40.4                       | 50.0              | 306.2             | 0.0   | 0.0   | 1.0   | 25.1 | 29.6  | -40.3 | 50.1 | 306 | 0.0   | 0.479 | 1.0   | 41.0   | 0.0   | -40.6 | 40.7 | 270 | 0.0   | 0.458 | 1.0   | 40.3 | 1.2   | -40.6 | 40.7 | 271 |
| 314.7      | 277.5      | 278.8      | 0.125           | 0.0                        | 1.0               | 27.9                        | 36.0              | -36.4                       | 51.2              | 314.7             | 0.117 | 0.0   | 1.0   | 27.7 | 35.7  | -36.6 | 51.2 | 314 | 0.0   | 0.395 | 1.0   | 38.1   | 5.0   | -40.3 | 40.7 | 277 | 0.0   | 0.378 | 1.0   | 37.5 | 5.9   | -40.2 | 40.7 | 278 |
| 322.1      | 285.0      | 285.9      | 0.25            | 0.0                        | 1.0               | 28.8                        | 41.9              | -32.5                       | 53.1              | 322.1             | 0.25  | 0.0   | 1.0   | 28.9 | 42.0  | -32.5 | 53.2 | 322 | 0.0   | 0.303 | 1.0   | 34.8   | 10.8  | -40.3 | 41.9 | 285 | 0.0   | 0.292 | 1.0   | 34.4 | 11.6  | -40.3 | 42.0 | 285 |
| 333.3      | 292.5      | 293.0      | 0.375           | 0.0                        | 1.0               | 32.7                        | 51.8              | -26.0                       | 58.0              | 333.3             | 0.367 | 0.0   | 1.0   | 32.5 | 51.3  | -26.5 | 57.7 | 332 | 0.0   | 0.219 | 1.0   | 31.8   | 16.3  | -40.3 | 43.6 | 292 | 0.0   | 0.211 | 1.0   | 31.5 | 16.8  | -40.3 | 43.8 | 292 |
| 340.5      | 300.0      | 300.1      | 0.5             | 0.0                        | 1.0               | 35.6                        | 58.6              | -20.7                       | 62.1              | 340.5             | 0.5   | 0.0   | 1.0   | 35.6 | 58.6  | -20.6 | 62.2 | 340 | 0.0   | 0.109 | 1.0   | 28.2   | 23.3  | -40.3 | 46.6 | 300 | 0.0   | 0.106 | 1.0   | 28.1 | 23.5  | -40.3 | 46.7 | 300 |
| 347.9      | 307.5      | 307.2      | 0.625           | 0.0                        | 1.0               | 38.1                        | 65.4              | -14.0                       | 66.9              | 347.9             | 0.617 | 0.0   | 1.0   | 37.9 | 65.1  | -14.4 | 66.7 | 347 | 0.011 | 0.0   | 1.0   | 25.3</ |       |       |      |     |       |       |       |      |       |       |      |     |

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours  $RYGCBM_d$ :  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd64M}$ |       |       | $LAB^*_{ddx64M} (x=LabCh)$ |       |       |      |       |  | $rgb^*_{dex361M}$ |       |       | $LAB^*_{dex361M}$ |      |       |       |      | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |  |
|------------|------------|------------|-----------------|-------|-------|----------------------------|-------|-------|------|-------|--|-------------------|-------|-------|-------------------|------|-------|-------|------|--------------|--------------|--------------|--|
| 32.3       | 30.0       | 25.4       | 1.0             | 0.0   | 0.0   | 45.4                       | 70.9  | 44.8  | 83.9 | 32.3  |  |                   | 1.0   | 0.0   | 0.255             | 45.7 | 72.2  | 34.4  | 80.0 | 25           |              |              |  |
| 38.1       | 37.5       | 33.8       | 1.0             | 0.125 | 0.0   | 48.9                       | 62.8  | 49.4  | 79.9 | 38.1  |  |                   | 1.0   | 0.021 | 0.0               | 46.0 | 69.6  | 45.7  | 83.3 | 33           |              |              |  |
| 46.8       | 45.0       | 42.1       | 1.0             | 0.25  | 0.0   | 53.6                       | 51.9  | 55.5  | 76.0 | 46.8  |  |                   | 1.0   | 0.183 | 0.0               | 51.1 | 57.9  | 52.5  | 78.1 | 42           |              |              |  |
| 56.9       | 52.5       | 50.5       | 1.0             | 0.375 | 0.0   | 59.1                       | 40.3  | 62.0  | 74.0 | 56.9  |  |                   | 1.0   | 0.288 | 0.0               | 55.4 | 48.5  | 57.8  | 75.4 | 49           |              |              |  |
| 67.1       | 60.0       | 58.8       | 1.0             | 0.5   | 0.0   | 64.9                       | 28.9  | 68.6  | 74.5 | 67.1  |  |                   | 1.0   | 0.398 | 0.0               | 60.3 | 38.3  | 63.5  | 74.1 | 58           |              |              |  |
| 78.6       | 67.5       | 67.2       | 1.0             | 0.625 | 0.0   | 72.1                       | 15.4  | 77.1  | 78.6 | 78.6  |  |                   | 1.0   | 0.494 | 0.0               | 64.6 | 29.5  | 68.4  | 74.5 | 66           |              |              |  |
| 86.2       | 75.0       | 75.6       | 1.0             | 0.75  | 0.0   | 77.9                       | 5.4   | 83.8  | 84.0 | 86.2  |  |                   | 1.0   | 0.592 | 0.0               | 70.2 | 19.3  | 75.2  | 77.6 | 75           |              |              |  |
| 92.1       | 82.5       | 83.9       | 1.0             | 0.875 | 0.0   | 83.4                       | -3.4  | 90.2  | 90.2 | 92.1  |  |                   | 1.0   | 0.703 | 0.0               | 75.8 | 9.4   | 81.5  | 82.0 | 83           |              |              |  |
| 96.1       | 90.0       | 92.3       | 1.0             | 1.0   | 0.0   | 87.8                       | -10.2 | 95.4  | 96.0 | 96.1  |  |                   | 1.0   | 0.879 | 0.0               | 83.6 | -3.6  | 90.4  | 90.5 | 92           |              |              |  |
| 98.8       | 97.5       | 101.0      | 0.875           | 1.0   | 0.0   | 84.3                       | -13.9 | 89.2  | 90.3 | 98.8  |  |                   | 0.807 | 1.0   | 0.0               | 82.4 | -15.8 | 86.2  | 87.7 | 100          |              |              |  |
| 101.8      | 105.0      | 109.7      | 0.75            | 1.0   | 0.0   | 80.7                       | -17.5 | 83.5  | 85.3 | 101.8 |  |                   | 0.583 | 1.0   | 0.0               | 73.7 | -26.1 | 72.7  | 77.3 | 109          |              |              |  |
| 107.6      | 112.5      | 118.5      | 0.625           | 1.0   | 0.0   | 75.3                       | -24.0 | 75.7  | 79.4 | 107.6 |  |                   | 0.434 | 1.0   | 0.0               | 68.0 | -32.9 | 62.2  | 70.5 | 117          |              |              |  |
| 114.0      | 120.0      | 127.2      | 0.5             | 1.0   | 0.0   | 70.6                       | -29.7 | 66.5  | 72.8 | 114.0 |  |                   | 0.322 | 1.0   | 0.0               | 62.6 | -40.8 | 53.8  | 67.6 | 127          |              |              |  |
| 121.4      | 127.5      | 136.0      | 0.375           | 1.0   | 0.0   | 65.7                       | -35.6 | 58.3  | 68.3 | 121.4 |  |                   | 0.249 | 1.0   | 0.0               | 58.4 | -47.4 | 46.8  | 66.6 | 135          |              |              |  |
| 135.3      | 135.0      | 144.7      | 0.25            | 1.0   | 0.0   | 58.4                       | -47.3 | 46.8  | 66.6 | 135.3 |  |                   | 0.122 | 1.0   | 0.0               | 54.6 | -54.2 | 38.4  | 66.5 | 144          |              |              |  |
| 144.4      | 142.5      | 153.4      | 0.125           | 1.0   | 0.0   | 54.7                       | -53.9 | 38.5  | 66.3 | 144.4 |  |                   | 0.03  | 1.0   | 0.0               | 51.2 | -62.4 | 32.0  | 70.2 | 152          |              |              |  |
| 155.5      | 150.0      | 162.2      | 0.0             | 1.0   | 0.0   | 50.0                       | -65.0 | 29.6  | 71.4 | 155.5 |  |                   | 0.0   | 1.0   | 0.151             | 50.7 | -62.0 | 19.9  | 65.2 | 162          |              |              |  |
| 160.7      | 157.5      | 169.0      | 0.0             | 1.0   | 0.125 | 50.5                       | -62.8 | 21.9  | 66.5 | 160.7 |  |                   | 0.0   | 1.0   | 0.261             | 51.3 | -58.5 | 11.8  | 59.8 | 168          |              |              |  |
| 167.7      | 165.0      | 175.9      | 0.0             | 1.0   | 0.25  | 51.2                       | -58.9 | 12.7  | 60.3 | 167.7 |  |                   | 0.0   | 1.0   | 0.364             | 52.0 | -55.0 | 3.9   | 55.2 | 175          |              |              |  |
| 176.7      | 172.5      | 182.7      | 0.0             | 1.0   | 0.375 | 52.0                       | -54.5 | 3.1   | 54.6 | 176.7 |  |                   | 0.0   | 1.0   | 0.43              | 52.5 | -52.2 | -2.0  | 52.3 | 182          |              |              |  |
| 189.3      | 180.0      | 189.6      | 0.0             | 1.0   | 0.5   | 52.9                       | -48.6 | -8.0  | 49.3 | 189.3 |  |                   | 0.0   | 1.0   | 0.502             | 53.0 | -48.5 | -8.1  | 49.3 | 189          |              |              |  |
| 203.2      | 187.5      | 196.4      | 0.0             | 1.0   | 0.625 | 54.0                       | -42.3 | -18.1 | 46.1 | 203.2 |  |                   | 0.0   | 1.0   | 0.56              | 53.5 | -45.9 | -13.1 | 47.8 | 195          |              |              |  |
| 217.2      | 195.0      | 203.2      | 0.0             | 1.0   | 0.75  | 55.0                       | -36.0 | -27.4 | 45.3 | 217.2 |  |                   | 0.0   | 1.0   | 0.626             | 54.1 | -42.3 | -18.1 | 46.1 | 203          |              |              |  |
| 228.3      | 202.5      | 210.1      | 0.0             | 1.0   | 0.875 | 55.8                       | -30.7 | -34.5 | 46.2 | 228.3 |  |                   | 0.0   | 1.0   | 0.682             | 54.5 | -39.6 | -22.6 | 45.7 | 209          |              |              |  |
| 238.4      | 210.0      | 216.9      | 0.0             | 1.0   | 1.0   | 56.8                       | -25.5 | -41.5 | 48.7 | 238.4 |  |                   | 0.0   | 1.0   | 0.747             | 55.0 | -36.1 | -27.2 | 45.3 | 216          |              |              |  |
| 242.9      | 217.5      | 223.8      | 0.0             | 0.875 | 1.0   | 54.1                       | -21.1 | -41.3 | 46.4 | 242.9 |  |                   | 0.0   | 1.0   | 0.819             | 55.5 | -33.2 | -31.3 | 45.8 | 223          |              |              |  |
| 249.3      | 225.0      | 230.6      | 0.0             | 0.75  | 1.0   | 50.4                       | -15.5 | -41.1 | 43.9 | 249.3 |  |                   | 0.0   | 1.0   | 0.904             | 56.1 | -29.6 | -36.1 | 46.8 | 230          |              |              |  |
| 256.9      | 232.5      | 237.5      | 0.0             | 0.625 | 1.0   | 46.5                       | -9.4  | -40.8 | 41.9 | 256.9 |  |                   | 0.0   | 1.0   | 0.983             | 56.7 | -26.2 | -40.5 | 48.4 | 237          |              |              |  |
| 268.2      | 240.0      | 244.3      | 0.0             | 0.5   | 1.0   | 41.7                       | -1.2  | -40.6 | 40.6 | 268.2 |  |                   | 0.0   | 0.847 | 1.0               | 53.3 | -19.8 | -41.3 | 45.9 | 244          |              |              |  |
| 278.6      | 247.5      | 251.2      | 0.0             | 0.375 | 1.0   | 37.3                       | 6.1   | -40.2 | 40.7 | 278.6 |  |                   | 0.0   | 0.726 | 1.0               | 49.7 | -14.3 | -41.1 | 43.6 | 250          |              |              |  |
| 289.6      | 255.0      | 258.0      | 0.0             | 0.25  | 1.0   | 32.8                       | 14.3  | -40.2 | 42.7 | 289.6 |  |                   | 0.0   | 0.613 | 1.0               | 46.1 | -8.6  | -40.8 | 41.9 | 258          |              |              |  |
| 299.0      | 262.5      | 264.8      | 0.0             | 0.125 | 1.0   | 28.6                       | 22.4  | -40.2 | 46.1 | 299.0 |  |                   | 0.0   | 0.542 | 1.0               | 43.4 | -3.9  | -40.8 | 41.1 | 264          |              |              |  |
| 306.2      | 270.0      | 271.7      | 0.0             | 0.0   | 1.0   | 25.0                       | 29.5  | -40.4 | 50.0 | 306.2 |  |                   | 0.0   | 0.458 | 1.0               | 40.3 | 1.2   | -40.6 | 40.7 | 271          |              |              |  |
| 314.7      | 277.5      | 278.8      | 0.125           | 0.0   | 1.0   | 27.9                       | 36.0  | -36.4 | 51.2 | 314.7 |  |                   | 0.0   | 0.378 | 1.0               | 37.5 | 5.9   | -40.2 | 40.7 | 278          |              |              |  |
| 322.1      | 285.0      | 285.9      | 0.25            | 0.0   | 1.0   | 28.8                       | 41.9  | -32.5 | 53.1 | 322.1 |  |                   | 0.0   | 0.292 | 1.0               | 34.4 | 11.6  | -40.3 | 42.0 | 285          |              |              |  |
| 333.3      | 292.5      | 293.0      | 0.375           | 0.0   | 1.0   | 32.7                       | 51.8  | -26.0 | 58.0 | 333.3 |  |                   | 0.0   | 0.211 | 1.0               | 31.5 | 16.8  | -40.3 | 43.8 | 292          |              |              |  |
| 340.5      | 300.0      | 300.1      | 0.5             | 0.0   | 1.0   | 35.6                       | 58.6  | -20.7 | 62.1 | 340.5 |  |                   | 0.0   | 0.106 | 1.0               | 28.1 | 23.5  | -40.3 | 46.7 | 300          |              |              |  |
| 347.9      | 307.5      | 307.2      | 0.625           | 0.0   | 1.0   | 38.1                       | 65.4  | -14.0 | 66.9 | 347.9 |  |                   | 0.009 | 0.0   | 1.0               | 25.3 | 30.1  | -40.1 | 50.2 | 306          |              |              |  |
| 352.5      | 315.0      | 314.3      | 0.75            | 0.0   | 1.0   | 41.8                       | 71.0  | -9.2  | 71.6 | 352.5 |  |                   | 0.12  | 0.0   | 1.0               | 27.8 | 35.8  | -36.5 | 51.2 | 314          |              |              |  |
| 356.1      | 322.5      | 321.4      | 0.875           | 0.0   | 1.0   | 44.2                       | 75.2  | -5.0  | 75.3 | 356.1 |  |                   | 0.231 | 0.0   | 1.0               | 28.7 | 41.1  | -33.2 | 52.9 | 321          |              |              |  |
| 359.8      | 330.0      | 328.6      | 1.0             | 0.0   | 1.0   | 46.1                       | 79.3  | -0.2  | 79.3 | 359.8 |  |                   | 0.322 | 0.0   | 1.0               | 31.1 | 47.8  | -29.1 | 56.0 | 328          |              |              |  |
| 363.0      | 337.5      | 335.7      | 1.0             | 0.0   | 0.875 | 45.9                       | 78.2  | 4.1   | 78.3 | 363.0 |  |                   | 0.408 | 0.0   | 1.0               | 33.5 | 53.7  | -24.7 | 59.1 | 335          |              |              |  |
| 366.4      | 345.0      | 342.8      | 1.0             | 0.0   | 0.75  | 45.9                       | 77.1  | 8.6   | 77.6 | 366.4 |  |                   | 0.539 | 0.0   | 1.0               | 36.4 | 60.8  | -18.7 | 63.7 | 342          |              |              |  |
| 371.1      | 352.5      | 349.9      | 1.0             | 0.0   | 0.625 | 46.0                       | 75.6  | 14.8  | 77.0 | 371.1 |  |                   | 0.667 | 0.0   | 1.0               | 39.3 | 67.4  | -12.4 | 68.5 | 349          |              |              |  |
| 375.9      | 360.0      | 357.0      | 1.0             | 0.0   | 0.5   | 45.9                       | 74.2  | 21.1  | 77.1 | 375.9 |  |                   | 0.736 | 0.0   | 1.0               | 41.4 | 70.5  | -9.7  | 71.1 | 352          |              |              |  |
| 381.2      | 367.5      | 364.1      | 1.0             | 0.0   | 0.375 | 45.8                       | 72.9  | 28.3  | 78.3 | 381.2 |  |                   | 1.0   | 0.0   | 1.0               | 46.1 | 79.3  | -0.1  | 79.3 | 359          |              |              |  |
| 385.6      | 375.0      | 371.2      | 1.0             | 0.0   | 0.25  | 45.6                       | 72.1  | 34.6  | 80.0 | 385.6 |  |                   | 1.0   | 0.0   | 0.687             | 46.0 | 76.5  | 11.8  | 77.4 | 368          |              |              |  |
| 389.3      | 382.5      | 378.3      | 1.0             | 0.0   | 0.125 | 45.5                       | 71.4  | 40.1  | 81.9 | 389.3 |  |                   | 1.0   | 0.0   | 0.485             | 45.9 | 74.1  | 22.0  | 77.3 | 376          |              |              |  |
| 392.3      | 390.0      | 385.4      | 1.0             | 0.0   | 0.0   | 45.4                       | 70.9  | 44.8  | 83.9 | 392.3 |  |                   | 1.0   | 0.0   | 0.255             | 45.7 | 72.2  | 34.4  | 80.0 | 385          |              |              |  |

1-103831-L0

QE670-72

LAB\*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB\*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0\*, D65, page 9/33

TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
48 step hue circles;  $rgb-LabCh^*$  tables

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation cmy0\* (CMY0)  
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>s</sub>:  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM<sub>d</sub>:  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours RYGBM<sub>e</sub>:  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{ddx361Mi} (x=LabCh)$ | $R_d$ | $rgb^*_{ds361Mi}$ | $LAB^*_{dsx361Mi} (x=LabCh)$ | $R_s$ | $rgb^*_{dd361Mi}$ | $LAB^*_{dex361Mi} (x=LabCh)$ | $R_e$ | $rgb^*_{dd361Mi}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |
|------------|------------|------------|------------------|------------------------------|-------|-------------------|------------------------------|-------|-------------------|------------------------------|-------|-------------------|--------------|--------------|--------------|
| 32         | 30         | 25         | 1.0              | 0.0                          | 0.0   | 45.4              | 70.9                         | 44.8  | 83.9              | 32                           | 1.0   | 0.0               | 0.0          | 0.0          | 0.0          |
| 33         | 31         | 26         | 1.0              | 0.016                        | 0.0   | 45.9              | 69.8                         | 45.5  | 83.4              | 33                           | 1.0   | 0.0               | 0.017        | 0.0          | 0.0          |
| 33         | 32         | 27         | 1.0              | 0.033                        | 0.0   | 46.3              | 68.8                         | 46.1  | 82.8              | 33                           | 1.0   | 0.0               | 0.033        | 0.0          | 0.0          |
| 34         | 33         | 28         | 1.0              | 0.05                         | 0.0   | 46.8              | 67.7                         | 46.8  | 82.3              | 34                           | 1.0   | 0.0               | 0.05         | 0.0          | 0.0          |
| 35         | 34         | 29         | 1.0              | 0.066                        | 0.0   | 47.3              | 66.6                         | 47.4  | 81.8              | 35                           | 1.0   | 0.0               | 0.067        | 0.0          | 0.0          |
| 36         | 35         | 31         | 1.0              | 0.083                        | 0.0   | 47.7              | 65.5                         | 48.0  | 81.2              | 36                           | 1.0   | 0.0               | 0.083        | 0.0          | 0.0          |
| 36         | 36         | 32         | 1.0              | 0.1                          | 0.0   | 48.2              | 64.4                         | 48.5  | 80.7              | 36                           | 1.0   | 0.0               | 0.1          | 0.0          | 0.0          |
| 37         | 37         | 33         | 1.0              | 0.116                        | 0.0   | 48.6              | 63.3                         | 49.1  | 80.2              | 37                           | 1.0   | 0.0               | 0.117        | 0.0          | 0.0          |
| 38         | 38         | 34         | 1.0              | 0.133                        | 0.0   | 49.2              | 62.1                         | 49.8  | 79.6              | 38                           | 1.0   | 0.0               | 0.133        | 0.0          | 0.0          |
| 39         | 39         | 35         | 1.0              | 0.15                         | 0.0   | 49.8              | 60.7                         | 50.7  | 79.1              | 39                           | 1.0   | 0.0               | 0.15         | 0.0          | 0.0          |
| 41         | 40         | 36         | 1.0              | 0.166                        | 0.0   | 50.5              | 59.2                         | 51.6  | 78.6              | 41                           | 1.0   | 0.0               | 0.167        | 0.0          | 0.0          |
| 42         | 41         | 37         | 1.0              | 0.183                        | 0.0   | 51.1              | 57.8                         | 52.5  | 78.1              | 42                           | 1.0   | 0.0               | 0.183        | 0.0          | 0.0          |
| 43         | 42         | 38         | 1.0              | 0.2                          | 0.0   | 51.7              | 56.3                         | 53.3  | 77.5              | 43                           | 1.0   | 0.0               | 0.2          | 0.0          | 0.0          |
| 44         | 43         | 39         | 1.0              | 0.216                        | 0.0   | 52.4              | 54.9                         | 54.0  | 77.0              | 44                           | 1.0   | 0.0               | 0.217        | 0.0          | 0.0          |
| 45         | 44         | 41         | 1.0              | 0.233                        | 0.0   | 53.0              | 53.4                         | 54.8  | 76.5              | 45                           | 1.0   | 0.0               | 0.233        | 0.0          | 0.0          |
| 46         | 45         | 42         | 1.0              | 0.25                         | 0.0   | 53.6              | 51.9                         | 55.5  | 76.0              | 46                           | 1.0   | 0.0               | 0.25         | 0.0          | 0.0          |
| 48         | 46         | 43         | 1.0              | 0.266                        | 0.0   | 54.4              | 50.4                         | 56.5  | 75.7              | 48                           | 1.0   | 0.0               | 0.267        | 0.0          | 0.0          |
| 49         | 47         | 44         | 1.0              | 0.283                        | 0.0   | 55.1              | 48.9                         | 57.4  | 75.4              | 49                           | 1.0   | 0.0               | 0.283        | 0.0          | 0.0          |
| 50         | 48         | 45         | 1.0              | 0.3                          | 0.0   | 55.8              | 47.4                         | 58.4  | 75.2              | 50                           | 1.0   | 0.0               | 0.3          | 0.0          | 0.0          |
| 52         | 49         | 46         | 1.0              | 0.316                        | 0.0   | 56.6              | 45.8                         | 59.2  | 74.9              | 52                           | 1.0   | 0.0               | 0.317        | 0.0          | 0.0          |
| 53         | 50         | 47         | 1.0              | 0.333                        | 0.0   | 57.3              | 44.2                         | 60.1  | 74.6              | 53                           | 1.0   | 0.0               | 0.333        | 0.0          | 0.0          |
| 54         | 51         | 48         | 1.0              | 0.35                         | 0.0   | 58.0              | 42.7                         | 60.9  | 74.4              | 54                           | 1.0   | 0.0               | 0.35         | 0.0          | 0.0          |
| 56         | 52         | 49         | 1.0              | 0.366                        | 0.0   | 58.8              | 41.1                         | 61.7  | 74.1              | 56                           | 1.0   | 0.0               | 0.367        | 0.0          | 0.0          |
| 57         | 53         | 51         | 1.0              | 0.383                        | 0.0   | 59.5              | 39.5                         | 62.5  | 74.0              | 57                           | 1.0   | 0.0               | 0.383        | 0.0          | 0.0          |
| 59         | 54         | 52         | 1.0              | 0.4                          | 0.0   | 60.3              | 38.1                         | 63.5  | 74.1              | 59                           | 1.0   | 0.0               | 0.4          | 0.0          | 0.0          |
| 60         | 55         | 53         | 1.0              | 0.416                        | 0.0   | 61.0              | 36.6                         | 64.5  | 74.1              | 60                           | 1.0   | 0.0               | 0.417        | 0.0          | 0.0          |
| 61         | 56         | 54         | 1.0              | 0.433                        | 0.0   | 61.8              | 35.1                         | 65.4  | 74.2              | 61                           | 1.0   | 0.0               | 0.433        | 0.0          | 0.0          |
| 63         | 57         | 55         | 1.0              | 0.45                         | 0.0   | 62.6              | 33.6                         | 66.2  | 74.3              | 63                           | 1.0   | 0.0               | 0.45         | 0.0          | 0.0          |
| 64         | 58         | 56         | 1.0              | 0.466                        | 0.0   | 63.3              | 32.0                         | 67.1  | 74.4              | 64                           | 1.0   | 0.0               | 0.467        | 0.0          | 0.0          |
| 65         | 59         | 57         | 1.0              | 0.483                        | 0.0   | 64.1              | 30.5                         | 67.9  | 74.4              | 65                           | 1.0   | 0.0               | 0.483        | 0.0          | 0.0          |
| 67         | 60         | 58         | 1.0              | 0.5                          | 0.0   | 64.9              | 28.9                         | 68.6  | 74.5              | 67                           | 1.0   | 0.0               | 0.5          | 0.0          | 0.0          |
| 68         | 61         | 60         | 1.0              | 0.516                        | 0.0   | 65.8              | 27.2                         | 69.9  | 75.0              | 68                           | 1.0   | 0.0               | 0.517        | 0.0          | 0.0          |
| 70         | 62         | 61         | 1.0              | 0.533                        | 0.0   | 66.8              | 25.5                         | 71.1  | 75.6              | 70                           | 1.0   | 0.0               | 0.533        | 0.0          | 0.0          |
| 71         | 63         | 62         | 1.0              | 0.55                         | 0.0   | 67.7              | 23.8                         | 72.3  | 76.1              | 71                           | 1.0   | 0.0               | 0.55         | 0.0          | 0.0          |
| 73         | 64         | 63         | 1.0              | 0.566                        | 0.0   | 68.7              | 22.0                         | 73.5  | 76.7              | 73                           | 1.0   | 0.0               | 0.567        | 0.0          | 0.0          |
| 74         | 65         | 64         | 1.0              | 0.583                        | 0.0   | 69.7              | 20.2                         | 74.6  | 77.3              | 74                           | 1.0   | 0.0               | 0.583        | 0.0          | 0.0          |
| 76         | 66         | 65         | 1.0              | 0.6                          | 0.0   | 70.6              | 18.3                         | 75.6  | 77.8              | 76                           | 1.0   | 0.0               | 0.6          | 0.0          | 0.0          |
| 77         | 67         | 66         | 1.0              | 0.616                        | 0.0   | 71.6              | 16.4                         | 76.6  | 78.4              | 77                           | 1.0   | 0.0               | 0.617        | 0.0          | 0.0          |
| 79         | 68         | 67         | 1.0              | 0.633                        | 0.0   | 72.5              | 14.8                         | 77.6  | 79.0              | 79                           | 1.0   | 0.0               | 0.633        | 0.0          | 0.0          |
| 80         | 69         | 68         | 1.0              | 0.65                         | 0.0   | 73.2              | 13.6                         | 78.5  | 79.7              | 80                           | 1.0   | 0.0               | 0.65         | 0.0          | 0.0          |
| 81         | 70         | 70         | 1.0              | 0.666                        | 0.0   | 74.0              | 12.3                         | 79.5  | 80.4              | 81                           | 1.0   | 0.0               | 0.667        | 0.0          | 0.0          |
| 82         | 71         | 71         | 1.0              | 0.683                        | 0.0   | 74.8              | 11.0                         | 80.4  | 81.1              | 82                           | 1.0   | 0.0               | 0.683        | 0.0          | 0.0          |
| 83         | 72         | 72         | 1.0              | 0.7                          | 0.0   | 75.6              | 9.6                          | 81.3  | 81.9              | 83                           | 1.0   | 0.0               | 0.7          | 0.0          | 0.0          |
| 84         | 73         | 73         | 1.0              | 0.716                        | 0.0   | 76.3              | 8.3                          | 82.2  | 82.6              | 84                           | 1.0   | 0.0               | 0.717        | 0.0          | 0.0          |
| 85         | 74         | 74         | 1.0              | 0.733                        | 0.0   | 77.1              | 6.9                          | 83.0  | 83.3              | 85                           | 1.0   | 0.0               | 0.733        | 0.0          | 0.0          |
| 86         | 75         | 75         | 1.0              | 0.75                         | 0.0   | 77.9              | 5.4                          | 83.8  | 84.0              | 86                           | 1.0   | 0.0               | 0.75         | 0.0          | 0.0          |

1-103931-L0 QE670-72 LAB\*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB\*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0\*, D65, page 10/33

TUB-test chart QE67; hue code: H\*d=Y75Gd  
48 step hue circles;  $rgb-LabCh$ \*tables

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation cmy0\* (CMY0)  
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>s</sub>:  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM<sub>d</sub>:  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours RYGBM<sub>e</sub>:  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{d361M}$ | $LAB^*_{ds361Mi}$ | $LAB^*_{ds361Mi}$ | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}$ | $rgb^*_{dd361Mi}$ | $rgb^*_{dd}$   | $rgb^*_{ds}$ | $rgb^*_{de}$ |      |       |      |      |      |       |                |     |       |       |     |       |       |      |      |      |       |       |                |     |     |     |
|------------|------------|------------|------------------|-----------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------------|--------------|------|-------|------|------|------|-------|----------------|-----|-------|-------|-----|-------|-------|------|------|------|-------|-------|----------------|-----|-----|-----|
| 86         | 75         | 75         | 1.0              | 0.75            | 0.0               | 77.9              | 5.4               | 83.8              | 84.0               | 86                | 1.0            | 0.585        | 0.0          | 69.8 | 20.0  | 74.7 | 77.4 | 75   | 1.0   | 0.75           | 0.0 | 1.0   | 0.592 | 0.0 | 70.2  | 19.3  | 75.2 | 77.6 | 75   | 1.0   | 0.75  | 0.0            |     |     |     |
| 87         | 76         | 76         | 1.0              | 0.766           | 0.0               | 78.6              | 4.3               | 84.7              | 84.8               | 87                | 1.0            | 0.596        | 0.0          | 70.5 | 18.8  | 75.4 | 77.7 | 76   | 1.0   | 0.767          | 0.0 | 1.0   | 0.604 | 0.0 | 70.9  | 17.9  | 75.9 | 78.0 | 76   | 1.0   | 0.767 | 0.0            |     |     |     |
| 87         | 77         | 77         | 1.0              | 0.783           | 0.0               | 79.4              | 3.2               | 85.6              | 85.7               | 87                | 1.0            | 0.607        | 0.0          | 71.1 | 17.6  | 76.1 | 78.1 | 77   | 1.0   | 0.783          | 0.0 | 1.0   | 0.616 | 0.0 | 71.6  | 16.5  | 76.6 | 78.4 | 77   | 1.0   | 0.783 | 0.0            |     |     |     |
| 88         | 78         | 78         | 1.0              | 0.8             | 0.0               | 80.1              | 2.0               | 86.5              | 86.5               | 88                | 1.0            | 0.618        | 0.0          | 71.7 | 16.3  | 76.7 | 78.5 | 78   | 1.0   | 0.8            | 0.0 | 1.0   | 0.63  | 0.0 | 72.4  | 15.1  | 77.4 | 78.9 | 78   | 1.0   | 0.8   | 0.0            |     |     |     |
| 89         | 79         | 80         | 1.0              | 0.816           | 0.0               | 80.8              | 0.8               | 87.3              | 87.3               | 89                | 1.0            | 0.631        | 0.0          | 72.4 | 15.1  | 77.5 | 78.9 | 79   | 1.0   | 0.817          | 0.0 | 1.0   | 0.648 | 0.0 | 73.2  | 13.8  | 78.5 | 79.7 | 80   | 1.0   | 0.817 | 0.0            |     |     |     |
| 90         | 80         | 81         | 1.0              | 0.833           | 0.0               | 81.6              | -0.3              | 88.2              | 88.2               | 90                | 1.0            | 0.647        | 0.0          | 73.2 | 13.8  | 78.4 | 79.6 | 80   | 1.0   | 0.833          | 0.0 | 1.0   | 0.667 | 0.0 | 74.1  | 12.3  | 79.5 | 80.5 | 81   | 1.0   | 0.833 | 0.0            |     |     |     |
| 91         | 81         | 82         | 1.0              | 0.85            | 0.0               | 82.3              | -1.5              | 89.0              | 89.0               | 91                | 1.0            | 0.664        | 0.0          | 73.9 | 12.6  | 79.4 | 80.4 | 81   | 1.0   | 0.85           | 0.0 | 1.0   | 0.685 | 0.0 | 74.9  | 10.9  | 80.5 | 81.3 | 82   | 1.0   | 0.85  | 0.0            |     |     |     |
| 91         | 82         | 83         | 1.0              | 0.866           | 0.0               | 83.1              | -2.8              | 89.8              | 89.8               | 91                | 1.0            | 0.68         | 0.0          | 74.7 | 11.3  | 80.3 | 81.1 | 82   | 1.0   | 0.867          | 0.0 | 1.0   | 0.703 | 0.0 | 75.8  | 9.4   | 81.5 | 82.0 | 83   | 1.0   | 0.867 | 0.0            |     |     |     |
| 92         | 83         | 84         | 1.0              | 0.883           | 0.0               | 83.7              | -3.8              | 90.5              | 90.6               | 92                | 1.0            | 0.697        | 0.0          | 75.5 | 10.0  | 81.2 | 81.8 | 83   | 1.0   | 0.883          | 0.0 | 1.0   | 0.721 | 0.0 | 76.6  | 7.9   | 82.4 | 82.8 | 84   | 1.0   | 0.883 | 0.0            |     |     |     |
| 92         | 84         | 85         | 1.0              | 0.9             | 0.0               | 84.3              | -4.7              | 91.3              | 91.4               | 92                | 1.0            | 0.713        | 0.0          | 76.2 | 8.6   | 82.0 | 82.5 | 84   | 1.0   | 0.9            | 0.0 | 1.0   | 0.74  | 0.0 | 77.5  | 6.4   | 83.4 | 83.6 | 85   | 1.0   | 0.9   | 0.0            |     |     |     |
| 93         | 85         | 86         | 1.0              | 0.916           | 0.0               | 84.9              | -5.6              | 92.0              | 92.2               | 93                | 1.0            | 0.729        | 0.0          | 77.0 | 7.2   | 82.9 | 83.2 | 85   | 1.0   | 0.917          | 0.0 | 1.0   | 0.76  | 0.0 | 78.4  | 4.8   | 84.4 | 84.6 | 86   | 1.0   | 0.917 | 0.0            |     |     |     |
| 94         | 86         | 87         | 1.0              | 0.933           | 0.0               | 85.5              | -6.5              | 92.7              | 92.9               | 94                | 1.0            | 0.746        | 0.0          | 77.7 | 5.9   | 83.7 | 83.9 | 86   | 1.0   | 0.933          | 0.0 | 1.0   | 0.784 | 0.0 | 79.4  | 3.2   | 85.7 | 85.7 | 87   | 1.0   | 0.933 | 0.0            |     |     |     |
| 94         | 87         | 88         | 1.0              | 0.95            | 0.0               | 86.0              | -7.4              | 93.4              | 93.7               | 94                | 1.0            | 0.766        | 0.0          | 78.6 | 4.4   | 84.7 | 84.8 | 87   | 1.0   | 0.95           | 0.0 | 1.0   | 0.807 | 0.0 | 80.5  | 1.6   | 86.9 | 86.9 | 88   | 1.0   | 0.95  | 0.0            |     |     |     |
| 95         | 88         | 90         | 1.0              | 0.966           | 0.0               | 86.6              | -8.3              | 94.1              | 94.5               | 95                | 1.0            | 0.787        | 0.0          | 79.6 | 3.0   | 85.8 | 85.9 | 88   | 1.0   | 0.967          | 0.0 | 1.0   | 0.831 | 0.0 | 81.5  | 0.0   | 88.1 | 88.1 | 90   | 1.0   | 0.967 | 0.0            |     |     |     |
| 95         | 89         | 91         | 1.0              | 0.983           | 0.0               | 87.2              | -9.2              | 94.8              | 95.2               | 95                | 1.0            | 0.808        | 0.0          | 80.5 | 1.5   | 86.9 | 86.9 | 89   | 1.0   | 0.983          | 0.0 | 1.0   | 0.854 | 0.0 | 82.6  | -1.8  | 89.2 | 89.3 | 91   | 1.0   | 0.983 | 0.0            |     |     |     |
| 96         | 90         | 92         | 1.0              | 1.0             | 0.0               | 87.8              | -10.2             | 95.4              | 96.0               | 96                | Y <sub>d</sub> | 1.0          | 0.829        | 0.0  | 81.4  | 0.0  | 88.0 | 88.0 | 90    | Y <sub>s</sub> | 1.0 | 1.0   | 0.0   | 1.0 | 0.879 | 0.0   | 83.6 | -3.6 | 90.4 | 90.5  | 92    | Y <sub>e</sub> | 1.0 | 1.0 | 0.0 |
| 96         | 91         | 93         | 0.983            | 1.0             | 0.0               | 87.3              | -10.7             | 94.6              | 95.2               | 96                | 1.0            | 0.85         | 0.0          | 82.4 | -1.5  | 89.0 | 89.0 | 91   | 0.983 | 1.0            | 0.0 | 1.0   | 0.916 | 0.0 | 84.9  | -5.5  | 92.0 | 92.2 | 93   | 0.983 | 1.0   | 0.0            |     |     |     |
| 96         | 92         | 94         | 0.966            | 1.0             | 0.0               | 86.8              | -11.2             | 93.8              | 94.5               | 96                | 1.0            | 0.871        | 0.0          | 83.3 | -3.0  | 90.0 | 90.1 | 92   | 0.967 | 1.0            | 0.0 | 1.0   | 0.953 | 0.0 | 86.2  | -7.5  | 93.6 | 93.9 | 94   | 0.967 | 1.0   | 0.0            |     |     |     |
| 97         | 93         | 95         | 0.95             | 1.0             | 0.0               | 86.4              | -11.7             | 93.0              | 93.7               | 97                | 1.0            | 0.901        | 0.0          | 84.4 | -4.7  | 91.4 | 91.5 | 93   | 0.95  | 1.0            | 0.0 | 1.0   | 0.99  | 0.0 | 87.5  | -9.6  | 95.1 | 95.6 | 95   | 0.95  | 1.0   | 0.0            |     |     |     |
| 97         | 94         | 96         | 0.933            | 1.0             | 0.0               | 85.9              | -12.2             | 92.2              | 93.0               | 97                | 1.0            | 0.933        | 0.0          | 85.5 | -6.4  | 92.7 | 93.0 | 94   | 0.933 | 1.0            | 0.0 | 0.961 | 1.0   | 0.0 | 86.7  | -11.3 | 93.6 | 94.3 | 96   | 0.933 | 1.0   | 0.0            |     |     |     |
| 97         | 95         | 98         | 0.916            | 1.0             | 0.0               | 85.5              | -12.7             | 91.3              | 92.2               | 97                | 1.0            | 0.965        | 0.0          | 86.6 | -8.1  | 94.1 | 94.4 | 95   | 0.917 | 1.0            | 0.0 | 0.907 | 1.0   | 0.0 | 85.3  | -12.9 | 90.9 | 91.8 | 98   | 0.917 | 1.0   | 0.0            |     |     |     |
| 98         | 96         | 99         | 0.9              | 1.0             | 0.0               | 85.0              | -13.2             | 90.5              | 91.5               | 98                | 1.0            | 0.997        | 0.0          | 87.7 | -9.9  | 95.4 | 95.9 | 96   | 0.9   | 1.0            | 0.0 | 0.856 | 1.0   | 0.0 | 83.8  | -14.4 | 88.4 | 89.6 | 99   | 0.9   | 1.0   | 0.0            |     |     |     |
| 98         | 97         | 100        | 0.883            | 1.0             | 0.0               | 84.5              | -13.6             | 89.7              | 90.7               | 98                | 0.959          | 1.0          | 0.0          | 86.7 | -11.4 | 93.5 | 94.2 | 97   | 0.883 | 1.0            | 0.0 | 0.807 | 1.0   | 0.0 | 82.4  | -15.8 | 86.2 | 87.7 | 100  | 0.883 | 1.0   | 0.0            |     |     |     |
| 99         | 98         | 101        | 0.866            | 1.0             | 0.0               | 84.1              | -14.1             | 88.9              | 90.0               | 99                | 0.914          | 1.0          | 0.0          | 85.4 | -12.7 | 91.2 | 92.1 | 98   | 0.867 | 1.0            | 0.0 | 0.759 | 1.0   | 0.0 | 81.0  | -17.2 | 84.0 | 85.7 | 101  | 0.867 | 1.0   | 0.0            |     |     |     |
| 99         | 99         | 102        | 0.85             | 1.0             | 0.0               | 83.6              | -14.6             | 88.1              | 89.3               | 99                | 0.869          | 1.0          | 0.0          | 84.2 | -14.0 | 89.0 | 90.1 | 99   | 0.85  | 1.0            | 0.0 | 0.729 | 1.0   | 0.0 | 79.9  | -18.6 | 82.3 | 84.4 | 102  | 0.85  | 1.0   | 0.0            |     |     |     |
| 99         | 100        | 103        | 0.833            | 1.0             | 0.0               | 83.1              | -15.1             | 87.4              | 88.7               | 99                | 0.827          | 1.0          | 0.0          | 83.0 | -15.3 | 87.1 | 88.5 | 100  | 0.833 | 1.0            | 0.0 | 0.704 | 1.0   | 0.0 | 78.8  | -20.0 | 80.8 | 83.2 | 103  | 0.833 | 1.0   | 0.0            |     |     |     |
| 100        | 101        | 105        | 0.816            | 1.0             | 0.0               | 82.6              | -15.6             | 86.6              | 88.0               | 100               | 0.785          | 1.0          | 0.0          | 81.8 | -16.5 | 85.2 | 86.8 | 101  | 0.817 | 1.0            | 0.0 | 0.679 | 1.0   | 0.0 | 77.7  | -21.3 | 79.2 | 82.0 | 105  | 0.817 | 1.0   | 0.0            |     |     |     |
| 100        | 102        | 106        | 0.8              | 1.0             | 0.0               | 82.2              | -16.1             | 85.8              | 87.3               | 100               | 0.747          | 1.0          | 0.0          | 80.6 | -17.6 | 83.4 | 85.2 | 102  | 0.8   | 1.0            | 0.0 | 0.654 | 1.0   | 0.0 | 76.6  | -22.6 | 77.6 | 80.8 | 106  | 0.8   | 1.0   | 0.0            |     |     |     |
| 101        | 103        | 107        | 0.783            | 1.0             | 0.0               | 81.7              | -16.6             | 85.1              | 86.7               | 101               | 0.725          | 1.0          | 0.0          | 79.7 | -18.8 | 82.0 | 84.2 | 103  | 0.783 | 1.0            | 0.0 | 0.628 | 1.0   | 0.0 | 75.5  | -23.8 | 76.0 | 79.6 | 107  | 0.783 | 1.0   | 0.0            |     |     |     |
| 101        | 104        | 108        | 0.766            | 1.0             | 0.0               | 81.2              | -17.0             | 84.3              | 86.0               | 101               | 0.703          | 1.0          | 0.0          | 78.7 | -20.0 | 80.7 | 83.2 | 104  | 0.767 | 1.0            | 0.0 | 0.605 | 1.0   | 0.0 | 74.6  | -25.0 | 74.3 | 78.4 | 108  | 0.767 | 1.0   | 0.0            |     |     |     |
| 101        | 105        | 109        | 0.75             | 1.0             | 0.0               | 80.7              | -17.5             | 83.5              | 85.3               | 101               | 0.682          | 1.0          | 0.0          | 77.8 | -21.2 | 79.4 | 82.2 | 105  | 0.75  | 1.0            | 0.0 | 0.583 | 1.0   | 0.0 | 73.7  | -26.1 | 72.7 | 77.3 | 109  | 0.75  | 1.0   | 0.0            |     |     |     |
| 102        | 106        | 110        | 0.733            | 1.0             | 0.0               | 80.0              | -18.4             | 82.5              | 84.6               | 102               | 0.66           | 1.0          | 0.0          | 76.8 | -22.3 | 78.0 | 81.1 | 106  | 0.733 | 1.0            | 0.0 | 0.56  | 1.0   | 0.0 | 72.9  | -27.1 | 71.0 | 76.1 | 110  | 0.733 | 1.0   | 0.0            |     |     |     |
| 103        | 107        | 112        | 0.716            | 1.0             | 0.0               | 79.3              | -19.3             | 81.5              | 83.8               | 103               | 0.638          | 1.0          | 0.0          | 75.9 | -23.3 | 76.6 | 80.1 | 107  | 0.717 | 1.0            | 0.0 | 0.538 | 1.0   | 0.0 | 72.0  | -28.1 | 69.3 | 74.9 | 112  | 0.717 | 1.0   | 0.0            |     |     |     |
| 104        | 108        | 113        | 0.7              | 1.0             | 0.0               | 78.5              | -20.2             | 80.5              | 83.0               | 104               | 0.617          | 1.0          | 0.0          | 75.0 | -24.3 | 75.2 | 79.1 | 108  | 0.7   | 1.0            | 0.0 | 0.515 | 1.0   | 0.0 | 71.2  | -29.0 | 67.7 | 73.7 | 113  | 0.7   | 1.0   | 0.0            |     |     |     |
| 104        | 109        | 114        | 0.683            | 1.0             | 0.0               | 77.8              | -21.1             | 79.4              | 82.2               | 104               | 0.598          | 1.0          | 0.0          | 74.3 | -25.3 | 73.8 | 78.1 | 109  | 0.683 | 1.0            | 0.0 | 0.494 | 1.0   | 0.0 | 70.4  | -30.0 | 66.1 | 72.6 | 114  | 0.683 | 1.0   | 0.0            |     |     |     |
| 105        | 110        | 115        | 0.666            | 1.0             | 0.0               | 77.1              | -22.0             | 78.4              | 81.4               | 105               | 0.579          | 1.0          | 0.0          | 73.6 | -26.2 | 72.4 | 77.0 | 110  | 0.667 | 1.0            | 0.0 | 0.474 | 1.0   | 0.0 | 69.6  | -31.0 | 64.8 | 71.9 | 115  | 0.667 | 1.0   | 0.0            |     |     |     |
| 106        | 111        | 116        | 0.65             | 1.0             | 0.0               | 76.4              | -22.8             | 77.3              | 80.6               | 106               | 0.559          | 1.0          | 0.0          | 72.9 | -27.1 | 71.0 | 76.0 | 111  | 0.65  | 1.0            | 0.0 | 0.454 | 1.0   | 0.0 | 68.8  | -32.0 | 63.5 | 71.2 | 116  | 0.65  | 1.0   | 0.0            |     |     |     |
| 107        | 112        | 117        | 0.633            | 1.0             | 0.0               | 75.6              | -23.6             | 76.2              | 79.8               | 107               | 0.54           | 1.0          | 0.0          | 72.1 | -28.0 | 69.5 | 75.0 | 112  | 0.633 | 1.0            | 0.0 | 0.434 | 1.0   | 0.0 | 68.0  | -32.9 | 62.2 | 70.5 | 117  | 0.633 | 1.0   | 0.0            |     |     |     |
| 108        | 113        | 119        | 0.616            | 1.0             | 0.0               | 75.0              | -24.4             | 75.1              | 79.0               | 108               | 0.521          | 1.0          | 0.0          | 71.4 | -28.8 | 68.1 | 74.0 | 113  | 0.617 | 1.0            | 0.0 | 0.414 | 1.0   | 0.0 | 67.3  | -33.8 | 60.9 | 69.7 | 119  | 0.617 | 1.0   | 0.0            |     |     |     |
| 108        | 114        | 120        | 0.6              | 1.0             | 0.0               | 74.3              | -25.3             | 73.9              | 78.1               | 108               | 0.501          | 1.0          | 0.0          | 70.7 | -29.6 | 66.6 | 72.9 | 114  | 0.6   | 1.0            | 0.0 | 0.394 | 1.0   | 0.0 | 66.5  | -34.7 | 59.6 | 69.0 | 120  | 0.6   | 1.0   | 0.0            |     |     |     |
| 109        | 115        | 121        | 0.583            | 1.0             | 0.0               | 73.7              | -26.1             | 72.7              | 77.2               | 109               | 0.484          | 1.0          | 0.0          | 70.0 | -30.4 | 65.5 | 72.3 | 115  | 0.583 | 1.0            | 0.0 | 0.375 | 1.0   | 0.0 | 65.7  | -35.5 | 58.3 | 68.3 | 121  | 0.583 | 1.0   | 0.0            |     |     |     |
| 110        | 116        | 122        | 0.566            | 1.0             | 0.0               |                   |                   |                   |                    |                   |                |              |              |      |       |      |      |      |       |                |     |       |       |     |       |       |      |      |      |       |       |                |     |     |     |

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0\*, D65 for input or output; Six hue angles of the 60 degree standard colours  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

Six hue angles of the device colours  $RYGCBM_d$ :  $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{dd361Mi} (x=LabCh)$ | $rgb^*_{ds361Mi}$ | $dsx361Mi (x=LabCh)$ | $LAB^*_{ds361Mi}$ | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi} (x=LabCh)$ | $rgb^*_{dd361Mi}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$    | $rgb^*_{de}$ |           |     |       |       |     |       |      |                 |     |           |     |       |
|------------|------------|------------|------------------|-----------------------------|-------------------|----------------------|-------------------|-------------------|-------------------|------------------------------|-------------------|--------------|-----------------|--------------|-----------|-----|-------|-------|-----|-------|------|-----------------|-----|-----------|-----|-------|
| 114        | 120        | 127        | 0.5              | 1.0                         | 0.0               | 70.6                 | -29.7 66.5 72.8   | 114               | 0.399             | 1.0                          | 0.0               | 66.7         | -34.5 59.9 69.2 | 120          | 0.5       | 1.0 | 0.0   | 0.322 | 1.0 | 0.0   | 62.6 | -40.8 53.8 67.6 | 127 | 0.5       | 1.0 | 0.0   |
| 115        | 121        | 128        | 0.483            | 1.0                         | 0.0               | 69.9                 | -30.5 65.4 72.2   | 115               | 0.382             | 1.0                          | 0.0               | 66.0         | -35.2 58.8 68.6 | 121          | 0.483     | 1.0 | 0.0   | 0.312 | 1.0 | 0.0   | 62.0 | -41.8 52.9 67.5 | 128 | 0.483     | 1.0 | 0.0   |
| 116        | 122        | 129        | 0.466            | 1.0                         | 0.0               | 69.3                 | -31.4 64.3 71.6   | 116               | 0.37              | 1.0                          | 0.0               | 65.4         | -36.1 57.9 68.3 | 122          | 0.467     | 1.0 | 0.0   | 0.301 | 1.0 | 0.0   | 61.4 | -42.8 51.9 67.3 | 129 | 0.467     | 1.0 | 0.0   |
| 117        | 123        | 130        | 0.45             | 1.0                         | 0.0               | 68.6                 | -32.2 63.2 71.0   | 117               | 0.361             | 1.0                          | 0.0               | 64.9         | -37.0 57.1 68.1 | 123          | 0.45      | 1.0 | 0.0   | 0.291 | 1.0 | 0.0   | 60.8 | -43.8 50.9 67.2 | 130 | 0.45      | 1.0 | 0.0   |
| 117        | 124        | 131        | 0.433            | 1.0                         | 0.0               | 68.0                 | -33.0 62.1 70.4   | 117               | 0.352             | 1.0                          | 0.0               | 64.4         | -37.9 56.4 68.0 | 124          | 0.433     | 1.0 | 0.0   | 0.28  | 1.0 | 0.0   | 60.2 | -44.7 49.9 67.0 | 131 | 0.433     | 1.0 | 0.0   |
| 118        | 125        | 133        | 0.416            | 1.0                         | 0.0               | 67.3                 | -33.8 61.0 69.8   | 118               | 0.343             | 1.0                          | 0.0               | 63.8         | -38.8 55.6 67.9 | 125          | 0.417     | 1.0 | 0.0   | 0.27  | 1.0 | 0.0   | 59.6 | -45.6 48.9 66.9 | 133 | 0.417     | 1.0 | 0.0   |
| 119        | 126        | 134        | 0.4              | 1.0                         | 0.0               | 66.7                 | -34.5 59.9 69.2   | 119               | 0.334             | 1.0                          | 0.0               | 63.3         | -39.7 54.8 67.8 | 126          | 0.4       | 1.0 | 0.0   | 0.259 | 1.0 | 0.0   | 59.0 | -46.5 47.8 66.8 | 134 | 0.4       | 1.0 | 0.0   |
| 120        | 127        | 135        | 0.383            | 1.0                         | 0.0               | 66.0                 | -35.2 58.8 68.6   | 120               | 0.325             | 1.0                          | 0.0               | 62.8         | -40.6 54.0 67.6 | 127          | 0.383     | 1.0 | 0.0   | 0.249 | 1.0 | 0.0   | 58.4 | -47.4 46.8 66.6 | 135 | 0.383     | 1.0 | 0.0   |
| 122        | 128        | 136        | 0.366            | 1.0                         | 0.0               | 65.2                 | -36.4 57.6 68.2   | 122               | 0.316             | 1.0                          | 0.0               | 62.3         | -41.5 53.2 67.5 | 128          | 0.367     | 1.0 | 0.0   | 0.233 | 1.0 | 0.0   | 57.9 | -48.3 45.8 66.6 | 136 | 0.367     | 1.0 | 0.0   |
| 124        | 129        | 137        | 0.35             | 1.0                         | 0.0               | 64.2                 | -38.2 56.2 67.9   | 124               | 0.307             | 1.0                          | 0.0               | 61.7         | -42.3 52.4 67.4 | 129          | 0.35      | 1.0 | 0.0   | 0.217 | 1.0 | 0.0   | 57.4 | -49.2 44.7 66.6 | 137 | 0.35      | 1.0 | 0.0   |
| 126        | 130        | 138        | 0.333            | 1.0                         | 0.0               | 63.2                 | -39.8 54.7 67.7   | 126               | 0.298             | 1.0                          | 0.0               | 61.2         | -43.1 51.5 67.3 | 130          | 0.333     | 1.0 | 0.0   | 0.201 | 1.0 | 0.0   | 57.0 | -50.0 43.7 66.5 | 138 | 0.333     | 1.0 | 0.0   |
| 127        | 131        | 140        | 0.316            | 1.0                         | 0.0               | 62.3                 | -41.4 53.2 67.5   | 127               | 0.289             | 1.0                          | 0.0               | 60.7         | -44.0 50.7 67.2 | 131          | 0.317     | 1.0 | 0.0   | 0.185 | 1.0 | 0.0   | 56.5 | -50.9 42.7 66.5 | 140 | 0.317     | 1.0 | 0.0   |
| 129        | 132        | 141        | 0.3              | 1.0                         | 0.0               | 61.3                 | -43.0 51.7 67.3   | 129               | 0.28              | 1.0                          | 0.0               | 60.2         | -44.8 49.8 67.0 | 132          | 0.3       | 1.0 | 0.0   | 0.169 | 1.0 | 0.0   | 56.0 | -51.7 41.6 66.5 | 141 | 0.3       | 1.0 | 0.0   |
| 131        | 133        | 142        | 0.283            | 1.0                         | 0.0               | 60.3                 | -44.5 50.1 67.0   | 131               | 0.271             | 1.0                          | 0.0               | 59.6         | -45.5 48.9 66.9 | 133          | 0.283     | 1.0 | 0.0   | 0.153 | 1.0 | 0.0   | 55.5 | -52.5 40.5 66.4 | 142 | 0.283     | 1.0 | 0.0   |
| 133        | 134        | 143        | 0.266            | 1.0                         | 0.0               | 59.3                 | -45.9 48.5 66.8   | 133               | 0.262             | 1.0                          | 0.0               | 59.1         | -46.3 48.0 66.8 | 134          | 0.267     | 1.0 | 0.0   | 0.137 | 1.0 | 0.0   | 55.1 | -53.3 39.4 66.4 | 143 | 0.267     | 1.0 | 0.0   |
| 135        | 135        | 144        | 0.25             | 1.0                         | 0.0               | 58.4                 | -47.3 46.8 66.6   | 135               | 0.253             | 1.0                          | 0.0               | 58.6         | -47.0 47.1 66.7 | 135          | 0.25      | 1.0 | 0.0   | 0.122 | 1.0 | 0.0   | 54.6 | -54.2 38.4 66.5 | 144 | 0.25      | 1.0 | 0.0   |
| 136        | 136        | 145        | 0.233            | 1.0                         | 0.0               | 57.9                 | -48.3 45.8 66.5   | 136               | 0.241             | 1.0                          | 0.0               | 58.1         | -47.8 46.3 66.6 | 136          | 0.233     | 1.0 | 0.0   | 0.108 | 1.0 | 0.0   | 54.1 | -55.4 37.6 67.0 | 145 | 0.233     | 1.0 | 0.0   |
| 137        | 137        | 147        | 0.216            | 1.0                         | 0.0               | 57.4                 | -49.2 44.7 66.5   | 137               | 0.227             | 1.0                          | 0.0               | 57.7         | -48.6 45.4 66.6 | 137          | 0.217     | 1.0 | 0.0   | 0.095 | 1.0 | 0.0   | 53.6 | -56.6 36.7 67.6 | 147 | 0.217     | 1.0 | 0.0   |
| 138        | 138        | 148        | 0.2              | 1.0                         | 0.0               | 56.9                 | -50.1 43.6 66.5   | 138               | 0.213             | 1.0                          | 0.0               | 57.3         | -49.4 44.5 66.6 | 138          | 0.2       | 1.0 | 0.0   | 0.082 | 1.0 | 0.0   | 53.1 | -57.8 35.8 68.1 | 148 | 0.2       | 1.0 | 0.0   |
| 140        | 139        | 149        | 0.183            | 1.0                         | 0.0               | 56.4                 | -51.0 42.5 66.4   | 140               | 0.2               | 1.0                          | 0.0               | 56.9         | -50.1 43.6 66.5 | 139          | 0.183     | 1.0 | 0.0   | 0.069 | 1.0 | 0.0   | 52.6 | -59.0 34.9 68.6 | 149 | 0.183     | 1.0 | 0.0   |
| 141        | 140        | 150        | 0.166            | 1.0                         | 0.0               | 55.9                 | -51.9 41.4 66.4   | 141               | 0.186             | 1.0                          | 0.0               | 56.5         | -50.8 42.7 66.5 | 140          | 0.167     | 1.0 | 0.0   | 0.056 | 1.0 | 0.0   | 52.1 | -60.1 34.0 69.2 | 150 | 0.167     | 1.0 | 0.0   |
| 142        | 141        | 151        | 0.15             | 1.0                         | 0.0               | 55.4                 | -52.7 40.3 66.4   | 142               | 0.172             | 1.0                          | 0.0               | 56.1         | -51.6 41.8 66.5 | 141          | 0.15      | 1.0 | 0.0   | 0.043 | 1.0 | 0.0   | 51.7 | -61.3 33.0 69.7 | 151 | 0.15      | 1.0 | 0.0   |
| 143        | 142        | 152        | 0.133            | 1.0                         | 0.0               | 54.9                 | -53.5 39.1 66.3   | 143               | 0.159             | 1.0                          | 0.0               | 55.7         | -52.3 40.9 66.4 | 142          | 0.133     | 1.0 | 0.0   | 0.03  | 1.0 | 0.0   | 51.2 | -62.4 32.0 70.2 | 152 | 0.133     | 1.0 | 0.0   |
| 145        | 143        | 154        | 0.116            | 1.0                         | 0.0               | 54.4                 | -54.7 38.0 66.6   | 145               | 0.145             | 1.0                          | 0.0               | 55.3         | -52.9 40.0 66.4 | 143          | 0.117     | 1.0 | 0.0   | 0.016 | 1.0 | 0.0   | 50.7 | -63.5 30.9 70.8 | 154 | 0.117     | 1.0 | 0.0   |
| 146        | 144        | 155        | 0.1              | 1.0                         | 0.0               | 53.7                 | -56.2 37.0 67.3   | 146               | 0.131             | 1.0                          | 0.0               | 54.9         | -53.6 39.0 66.4 | 144          | 0.1       | 1.0 | 0.0   | 0.003 | 1.0 | 0.0   | 50.2 | -64.6 29.9 71.3 | 155 | 0.1       | 1.0 | 0.0   |
| 148        | 145        | 156        | 0.083            | 1.0                         | 0.0               | 53.1                 | -57.7 35.9 68.0   | 148               | 0.119             | 1.0                          | 0.0               | 54.5         | -54.5 38.2 66.6 | 145          | 0.083     | 1.0 | 0.0   | 0.0   | 1.0 | 0.021 | 50.1 | -64.6 28.3 70.6 | 156 | 0.083     | 1.0 | 0.0   |
| 149        | 146        | 157        | 0.066            | 1.0                         | 0.0               | 52.5                 | -59.2 34.7 68.7   | 149               | 0.107             | 1.0                          | 0.0               | 54.1         | -55.5 37.5 67.1 | 146          | 0.067     | 1.0 | 0.0   | 0.0   | 1.0 | 0.049 | 50.3 | -64.2 26.5 69.5 | 157 | 0.067     | 1.0 | 0.0   |
| 151        | 147        | 158        | 0.049            | 1.0                         | 0.0               | 51.9                 | -60.7 33.5 69.4   | 151               | 0.096             | 1.0                          | 0.0               | 53.7         | -56.5 36.8 67.5 | 147          | 0.05      | 1.0 | 0.0   | 0.0   | 1.0 | 0.077 | 50.4 | -63.7 24.8 68.4 | 158 | 0.05      | 1.0 | 0.0   |
| 152        | 148        | 159        | 0.033            | 1.0                         | 0.0               | 51.3                 | -62.2 32.2 70.0   | 152               | 0.085             | 1.0                          | 0.0               | 53.2         | -57.6 36.0 68.0 | 148          | 0.033     | 1.0 | 0.0   | 0.0   | 1.0 | 0.104 | 50.5 | -63.1 23.1 67.3 | 159 | 0.033     | 1.0 | 0.0   |
| 154        | 149        | 161        | 0.016            | 1.0                         | 0.0               | 50.6                 | -63.6 30.9 70.7   | 154               | 0.074             | 1.0                          | 0.0               | 52.8         | -58.6 35.3 68.4 | 149          | 0.017     | 1.0 | 0.0   | 0.0   | 1.0 | 0.13  | 50.6 | -62.6 21.5 66.3 | 161 | 0.017     | 1.0 | 0.0   |
| 155        | 150        | 162        | 0.0              | 1.0                         | 0.0               | 50.0                 | -65.0 29.6 71.4   | 155               | $G_d$ 0.062       | 1.0                          | 0.0               | 52.4         | -59.6 34.5 68.9 | 150          | $G_s$ 0.0 | 1.0 | 0.0   | 0.0   | 1.0 | 0.151 | 50.7 | -62.0 19.9 65.2 | 162 | $G_e$ 0.0 | 1.0 | 0.0   |
| 156        | 151        | 163        | 0.0              | 1.0                         | 0.016             | 50.1                 | -64.7 28.5 70.7   | 156               | 0.051             | 1.0                          | 0.0               | 52.0         | -60.6 33.6 69.4 | 151          | 0.0       | 1.0 | 0.017 | 0.0   | 1.0 | 0.167 | 50.8 | -61.6 18.7 64.4 | 163 | 0.0       | 1.0 | 0.017 |
| 156        | 152        | 164        | 0.0              | 1.0                         | 0.033             | 50.1                 | -64.5 27.4 70.1   | 156               | 0.04              | 1.0                          | 0.0               | 51.5         | -61.6 32.8 69.8 | 152          | 0.0       | 1.0 | 0.033 | 0.0   | 1.0 | 0.183 | 50.9 | -61.1 17.5 63.6 | 164 | 0.0       | 1.0 | 0.033 |
| 157        | 153        | 164        | 0.0              | 1.0                         | 0.05              | 50.2                 | -64.2 26.4 69.4   | 157               | 0.028             | 1.0                          | 0.0               | 51.1         | -62.5 31.9 70.3 | 153          | 0.0       | 1.0 | 0.05  | 0.0   | 1.0 | 0.2   | 51.0 | -60.6 16.3 62.8 | 164 | 0.0       | 1.0 | 0.05  |
| 158        | 154        | 165        | 0.0              | 1.0                         | 0.066             | 50.3                 | -63.9 25.4 68.8   | 158               | 0.017             | 1.0                          | 0.0               | 50.7         | -63.5 31.0 70.7 | 154          | 0.0       | 1.0 | 0.067 | 0.0   | 1.0 | 0.216 | 51.0 | -60.0 15.1 62.0 | 165 | 0.0       | 1.0 | 0.067 |
| 159        | 155        | 166        | 0.0              | 1.0                         | 0.083             | 50.3                 | -63.6 24.4 68.1   | 159               | 0.006             | 1.0                          | 0.0               | 50.3         | -64.4 30.1 71.2 | 155          | 0.0       | 1.0 | 0.083 | 0.0   | 1.0 | 0.232 | 51.1 | -59.5 14.0 61.2 | 166 | 0.0       | 1.0 | 0.083 |
| 159        | 156        | 167        | 0.0              | 1.0                         | 0.1               | 50.4                 | -63.3 23.4 67.5   | 159               | 0.0               | 1.0                          | 0.012             | 50.1         | -64.7 28.9 71.0 | 156          | 0.0       | 1.0 | 0.1   | 0.0   | 1.0 | 0.248 | 51.2 | -58.9 12.9 60.4 | 167 | 0.0       | 1.0 | 0.1   |
| 160        | 157        | 168        | 0.0              | 1.0                         | 0.116             | 50.5                 | -62.9 22.4 66.8   | 160               | 0.0               | 1.0                          | 0.035             | 50.2         | -64.4 27.4 70.0 | 157          | 0.0       | 1.0 | 0.117 | 0.0   | 1.0 | 0.261 | 51.3 | -58.5 11.8 59.8 | 168 | 0.0       | 1.0 | 0.117 |
| 161        | 158        | 169        | 0.0              | 1.0                         | 0.133             | 50.5                 | -62.5 21.2 66.1   | 161               | 0.0               | 1.0                          | 0.059             | 50.3         | -64.0 25.9 69.1 | 158          | 0.0       | 1.0 | 0.133 | 0.0   | 1.0 | 0.274 | 51.4 | -58.1 10.8 59.2 | 169 | 0.0       | 1.0 | 0.133 |
| 162        | 159        | 170        | 0.0              | 1.0                         | 0.15              | 50.6                 | -62.1 19.9 65.2   | 162               | 0.0               | 1.0                          | 0.083             | 50.4         | -63.5 24.4 68.2 | 159          | 0.0       | 1.0 | 0.15  | 0.0   | 1.0 | 0.287 | 51.5 | -57.7 9.7 58.6  | 170 | 0.0       | 1.0 | 0.15  |
| 163        | 160        | 171        | 0.0              | 1.0                         | 0.166             | 50.7                 | -61.6 18.7 64.4   | 163               | 0.0               | 1.0                          | 0.107             | 50.5         | -63.1 23.0 67.2 | 160          | 0.0       | 1.0 | 0.167 | 0.0   | 1.0 | 0.3   | 51.5 | -57.3 8.7 58.1  | 171 | 0.0       | 1.0 | 0.167 |
| 164        | 161        | 172        | 0.0              | 1.0                         | 0.183             | 50.8                 | -61.1 17.4 63.6   | 164               | 0.0               | 1.0                          | 0.129             | 50.6         | -62.6 21.6 66.3 | 161          | 0.0       | 1.0 | 0.183 | 0.0   | 1.0 | 0.313 | 51.6 | -56.9 7.7 57.5  | 172 | 0.0       | 1.0 | 0.183 |
| 164        | 162        | 173        | 0.0              | 1.0                         | 0.2               | 50.9                 | -60.6 16.2 62.7   | 164               | 0.0               | 1.0                          | 0.147             | 50.7         | -62.1 20.2 65.4 | 162          | 0.0       | 1.0 | 0.2   | 0.0   | 1.0 | 0.325 | 51.7 | -56.4 6.8 56.9  | 173 | 0.0       | 1.0 | 0.2   |
| 165        | 163        | 174        | 0.0              | 1.0                         | 0.216             | 51.0                 | -60.1 15.0 61.9   | 165               | 0.0               | 1.0                          | 0.165             | 50.8         | -61.6 18.9 64.5 | 163          | 0.0       | 1.0 | 0.217 | 0.0   | 1.0 | 0.338 | 51.8 | -55.9 5.8 56.3  | 174 | 0.0       | 1.0 | 0.217 |
| 166        |            |            |                  |                             |                   |                      |                   |                   |                   |                              |                   |              |                 |              |           |     |       |       |     |       |      |                 |     |           |     |       |

Output: Offset standard print; separation cmy0\*, D65, page 13/33

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

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TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separa

Output: Offset standard print; separation cmy0\*, D65, page 15/33

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$

TUB registration: 20130201-QE67/QE67LOFP.PDF /.PS  
application for measurement of offset print output, separa

0

TUV registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separa-

Output: Offset standard print; separation cmv0\*, D65, page 17/3

input:  $rgb/cmyk \rightarrow rgb_{dd}$   
output: 3D-linearization to  $cmy0^*_{dd}$



TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separation cmy0\* (CMY0)

TUB material: code=rha4ta

| n/f    | HfC*Fid        | rgb_Fid | icr_Fid | hsa_Fid | rgb*Fid | LabCh*Fid | cmy0*sep_Fid | cmyn*sep_Fid | delta | rgb*Mid | hsa_Mid | LabCh*Mid | cmyn*sep_Mid | cmyn*sep_Mid | delta |
|--------|----------------|---------|---------|---------|---------|-----------|--------------|--------------|-------|---------|---------|-----------|--------------|--------------|-------|
| 0/648  | R0Y_100_100ad  | 1.0     | 0.0     | 0.0     | 1.0     | 0.0       | 0.0          | 0.0          | 0.0   | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 1/666  | R25Y_100_100ad | 0.25    | 0.0     | 0.0     | 0.0     | 0.233     | 0.0          | 0.0          | 0.0   | 0.233   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 2/684  | R50Y_100_100ad | 0.5     | 0.0     | 0.0     | 0.0     | 0.466     | 0.0          | 0.0          | 0.0   | 0.466   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 3/702  | R75Y_100_100ad | 0.75    | 0.0     | 0.0     | 0.0     | 0.699     | 0.0          | 0.0          | 0.0   | 0.699   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 4/720  | Y00C_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 0.766     | 0.0          | 0.0          | 0.0   | 0.766   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 5/558  | Y25C_100_100ad | 0.75    | 0.0     | 0.0     | 0.0     | 0.812     | 0.0          | 0.0          | 0.0   | 0.812   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 6/396  | Y50C_100_100ad | 0.5     | 0.0     | 0.0     | 0.0     | 0.812     | 0.0          | 0.0          | 0.0   | 0.812   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 7/234  | Y75C_100_100ad | 0.25    | 0.0     | 0.0     | 0.0     | 0.766     | 0.0          | 0.0          | 0.0   | 0.766   | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 8/72   | G00B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 9/72   | G00B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 10/76  | G25B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 11/80  | G50B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 12/44  | G75B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 13/8   | B00M_100_100ad | 0.0     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 14/332 | B25R_100_100ad | 0.5     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 15/652 | B50R_100_100ad | 1.0     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 16/652 | B75R_100_100ad | 1.0     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 17/648 | R00Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 18/688 | R00Y_100_100ad | 1.0     | 0.5     | 0.5     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 19/706 | R50Y_100_100ad | 0.5     | 0.5     | 0.5     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 20/724 | Y00C_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 21/666 | Y25C_100_100ad | 0.75    | 0.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 22/400 | G00B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 23/400 | G00B_100_100ad | 0.0     | 1.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 24/368 | B00R_100_100ad | 0.0     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 25/692 | B50R_100_100ad | 0.5     | 0.0     | 1.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 26/688 | R00Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 27/506 | R00Y_075_050ad | 0.75    | 0.25    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.75    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 28/524 | R50Y_075_050ad | 0.75    | 0.25    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.75    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 29/542 | Y00C_075_050ad | 0.75    | 0.25    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.75    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 30/380 | Y50C_075_050ad | 0.5     | 0.75    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.5     | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   |
| 31/218 | G00B_075_050ad | 0.25    | 0.75    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   |
| 32/222 | G50B_075_050ad | 0.25    | 0.75    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   |
| 33/186 | B00R_075_050ad | 0.25    | 0.75    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   |
| 34/510 | B50R_075_050ad | 0.75    | 0.25    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.75    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 35/506 | R00Y_075_050ad | 0.75    | 0.25    | 0.25    | 0.75    | 0.25      | 0.25         | 0.25         | 0.0   | 0.75    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 36/324 | R00Y_050_050ad | 0.5     | 0.0     | 0.0     | 0.5     | 0.0       | 0.0          | 0.0          | 0.0   | 0.5     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 37/342 | R50Y_050_050ad | 0.5     | 0.25    | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.5     | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 38/360 | Y00C_050_050ad | 0.5     | 0.5     | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.5     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   |
| 39/198 | Y50C_050_050ad | 0.25    | 0.5     | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   |
| 40/36  | G00B_050_050ad | 0.0     | 0.5     | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.0     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   |
| 41/40  | G50B_050_050ad | 0.0     | 0.5     | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.0     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   |
| 42/4   | B00R_050_050ad | 0.0     | 0.5     | 0.25    | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.0     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   |
| 43/328 | B50R_050_050ad | 0.5     | 0.0     | 0.5     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.5     | 0.0     | 0.5       | 0.25         | 0.25         | 0.0   |
| 44/324 | R00Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.5     | 0.25      | 0.25         | 0.25         | 0.0   | 0.5     | 0.0     | 0.5       | 0.25         | 0.25         | 0.0   |
| 45/0   | NW_000ad       | 0.0     | 0.0     | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   | 0.0     | 0.0     | 0.0       | 0.0          | 0.0          | 0.0   |
| 46/91  | NW_013ad       | 0.125   | 0.125   | 0.125   | 0.125   | 0.125     | 0.125        | 0.125        | 0.0   | 0.125   | 0.125   | 0.125     | 0.125        | 0.125        | 0.0   |
| 47/182 | NW_025ad       | 0.25    | 0.25    | 0.25    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   | 0.25    | 0.25    | 0.25      | 0.25         | 0.25         | 0.0   |
| 48/273 | NW_038ad       | 0.375   | 0.375   | 0.375   | 0.375   | 0.375     | 0.375        | 0.375        | 0.0   | 0.375   | 0.375   | 0.375     | 0.375        | 0.375        | 0.0   |
| 49/364 | NW_050ad       | 0.5     | 0.5     | 0.5     | 0.5     | 0.5       | 0.5          | 0.5          | 0.0   | 0.5     | 0.5     | 0.5       | 0.5          | 0.5          | 0.0   |
| 50/455 | NW_065ad       | 0.625   | 0.625   | 0.625   | 0.625   | 0.625     | 0.625        | 0.625        | 0.0   | 0.625   | 0.625   | 0.625     | 0.625        | 0.625        | 0.0   |
| 51/66  | NW_080ad       | 0.75    | 0.75    | 0.75    | 0.75    | 0.75      | 0.75         | 0.75         | 0.0   | 0.75    | 0.75    | 0.75      | 0.75         | 0.75         | 0.0   |
| 52/66  | NW_088ad       | 0.875   | 0.875   | 0.875   | 0.875   | 0.875     | 0.875        | 0.875        | 0.0   | 0.875   | 0.875   | 0.875     | 0.875        | 0.875        | 0.0   |
| 53/728 | NW_100ad       | 1.0     | 1.0     | 1.0     | 1.0     | 1.0       | 1.0          | 1.0          | 0.0   | 1.0     | 1.0     | 1.0       | 1.0          | 1.0          | 0.0   |

input: rgb/cmyk -> rgbd  
output: 3D-linearization to cmy0\*dd

TUB-test chart QE67; hue code: H\*d=Y75Gd  
colors and differences, ΔE\*



TUB material: code=rha4ta  
my0\* (CMY0)



<http://130.149.60.45/~fatbmetrik/QE67/QE67L0FP.PDF> /PS; 3D-linearization F: 3D-linearization QE67/QE67LE30FP.DAT in file (F), page 20/33

[illegible]

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QE670-7N, Page 20/33-F

TUB-test chart QE67; hue code:  $H^*_d=Y75G_d$   
colors and differences,  $\Delta E^*$

```
input: rgb/cmyk -> rgbdd
output: 3D-linearization to cmy0*dd
```



see similar files: <http://130.149.60.45/~farbmatrik/QE67/QE67.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

see similar files: <http://130.149.60.45/~farbmetrik/QE67/QE67.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

```
input: rgb/cmyk -> rgbdd  
output: 3D-linearization to cmy0*dd
```


 TUB-test chart QE67; hue code: H\*<sub>d</sub>=Y75G<sub>d</sub>  
 colors and differences,  $\Delta E^*$   
 input: *rgb/cmyk* -> *rgb*<sub>dd</sub>  
 output: 3D-linearization to *cmy0*\*<sub>dd</sub>  


OE670-7N. Page 21/33-F



TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
application for measurement of offset print output, separations

TUB material: code=rha4ta  
my0\* (CMY0)



<http://130.149.60.45/~fatbmetrik/QE67/QE67L0FP.PDF> /PS; 3D-linearization F: 3D-linearization QE67/QE67LE30FP.DAT in file (F), page 22/33

| n | HIC <sup>Fold</sup> | rgb <sup>Fold</sup> |     |       |      |     |      |       |        |         |          | ict <sup>Fold</sup> |            |             |              |               |                |                 |                  |                   |                    | hsa <sup>Fold</sup> |                    |                   |                   |                    |                     |                      |                       |                        |                        | rgb <sup>Fold</sup>     |                     |                    |                      |                       |                      |                       |                        |                         |                       | cmv <sup>sep</sup> <sup>Fold</sup> |                       |                        |                         |                           |                         |                          |                           |                             |                          | hsa <sup>del</sup>         |                           |                          |                            |                             |                            |                             |                              |                               |                             | rgb <sup>del</sup>            |                             |                              |                               |                                 |                               |                                |                                 |                                   |                                | LabCh <sup>del</sup>             |                                 |                                |                                  |                                   |                                  |                                   |                                    |                                     |                                   | LabCh <sup>Wide</sup>               |                                   |                                    |                                     |                                       |                                     |                                      |                                       |                                         |                                      |                                        |                                       |                                      |                                        |                                         |                                        |                                         |                                          |                                           |                                         |                                           |                                         |                                          |                                           |                                             |                                           |                                            |                                             |                                               |                                            |                                              |                                             |                                            |                                              |                                               |                                              |                                               |                                                |
|---|---------------------|---------------------|-----|-------|------|-----|------|-------|--------|---------|----------|---------------------|------------|-------------|--------------|---------------|----------------|-----------------|------------------|-------------------|--------------------|---------------------|--------------------|-------------------|-------------------|--------------------|---------------------|----------------------|-----------------------|------------------------|------------------------|-------------------------|---------------------|--------------------|----------------------|-----------------------|----------------------|-----------------------|------------------------|-------------------------|-----------------------|------------------------------------|-----------------------|------------------------|-------------------------|---------------------------|-------------------------|--------------------------|---------------------------|-----------------------------|--------------------------|----------------------------|---------------------------|--------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|------------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|------------------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|---------------------------------|-----------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|-----------------------------------------|----------------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------------|-----------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------|---------------------------------------------|-----------------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------|-----------------------------------------------|------------------------------------------------|
|   |                     | 0.25                | 0.0 | 0.125 | 0.25 | 0.5 | 0.75 | 0.875 | 0.9375 | 0.96875 | 0.984375 | 0.9921875           | 0.99609375 | 0.998046875 | 0.9990234375 | 0.99951171875 | 0.999755859375 | 0.9998779296875 | 0.99993896484375 | 0.999969482421875 | 0.9999847412109375 | 0.999992370609375   | 0.9999961853046875 | 0.999998092651875 | 0.999999046328125 | 0.9999995231640625 | 0.99999976158203125 | 0.999999880791015625 | 0.9999999403955078125 | 0.99999997019775390625 | 0.99999998509887890625 | 0.999999992549439453125 | 0.99999999627471875 | 0.9999999981371875 | 0.999999999068359375 | 0.9999999995341796875 | 0.999999999768359375 | 0.9999999998841796875 | 0.99999999994208984375 | 0.999999999971044921875 | 0.9999999999855234375 | 0.999999999992761953125            | 0.9999999999963809375 | 0.99999999999819046875 | 0.999999999999095234375 | 0.99999999999954761953125 | 0.999999999999773809375 | 0.9999999999998869046875 | 0.99999999999994345234375 | 0.9999999999999717261953125 | 0.9999999999999855234375 | 0.999999999999992761953125 | 0.99999999999999627471875 | 0.9999999999999981371875 | 0.999999999999999068359375 | 0.9999999999999995341796875 | 0.999999999999999768359375 | 0.9999999999999998841796875 | 0.99999999999999994208984375 | 0.999999999999999971044921875 | 0.9999999999999999855234375 | 0.999999999999999992761953125 | 0.9999999999999999963809375 | 0.99999999999999999819046875 | 0.999999999999999999095234375 | 0.99999999999999999954761953125 | 0.999999999999999999773809375 | 0.9999999999999999998869046875 | 0.99999999999999999994345234375 | 0.9999999999999999999717261953125 | 0.9999999999999999999855234375 | 0.999999999999999999992761953125 | 0.99999999999999999999627471875 | 0.9999999999999999999981371875 | 0.999999999999999999999068359375 | 0.9999999999999999999995341796875 | 0.999999999999999999999768359375 | 0.9999999999999999999998841796875 | 0.99999999999999999999994208984375 | 0.999999999999999999999971044921875 | 0.9999999999999999999999855234375 | 0.999999999999999999999992761953125 | 0.9999999999999999999999963809375 | 0.99999999999999999999999819046875 | 0.999999999999999999999999095234375 | 0.99999999999999999999999954761953125 | 0.999999999999999999999999773809375 | 0.9999999999999999999999998869046875 | 0.99999999999999999999999994345234375 | 0.9999999999999999999999999717261953125 | 0.9999999999999999999999999855234375 | 0.999999999999999999999999992761953125 | 0.99999999999999999999999999627471875 | 0.9999999999999999999999999981371875 | 0.999999999999999999999999999068359375 | 0.9999999999999999999999999995341796875 | 0.999999999999999999999999999768359375 | 0.9999999999999999999999999998841796875 | 0.99999999999999999999999999994208984375 | 0.999999999999999999999999999971044921875 | 0.9999999999999999999999999999855234375 | 0.999999999999999999999999999992761953125 | 0.9999999999999999999999999999963809375 | 0.99999999999999999999999999999819046875 | 0.999999999999999999999999999999095234375 | 0.99999999999999999999999999999954761953125 | 0.999999999999999999999999999999773809375 | 0.9999999999999999999999999999998869046875 | 0.99999999999999999999999999999994345234375 | 0.9999999999999999999999999999999717261953125 | 0.9999999999999999999999999999999855234375 | 0.999999999999999999999999999999992761953125 | 0.99999999999999999999999999999999627471875 | 0.9999999999999999999999999999999981371875 | 0.999999999999999999999999999999999068359375 | 0.9999999999999999999999999999999995341796875 | 0.999999999999999999999999999999999768359375 | 0.9999999999999999999999999999999998841796875 | 0.99999999999999999999999999999999994208984375 |

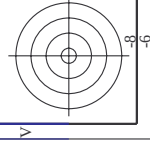
Mean color difference of this page:

TUB-test chart QE67; hue code:  $H_d^* = Y75G_d$   
colors and differences.  $\Delta E^*$

input: *rgb/cmyk*  $\rightarrow$  *rgb<sub>add</sub>*  
output: 3D-linearization to *cmv0\**<sub>add</sub>



see similar files: <http://130.149.60.45/~farbmatrik/QE67/QE67.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>







| n   | HIC*Fid        | rgb*Fid | lcr*Fid | hls*Fid | rgb*Fid | LabCh*Fid | cmv*sepFid | 1.0  | 0.0  | hsv*Fid | LabCh*Fid |
|-----|----------------|---------|---------|---------|---------|-----------|------------|------|------|---------|-----------|
| 324 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 34.9      | 35.4       | 41.9 | 32.3 | 0.567   | 0.93      |
| 325 | R26Y_050_050ad | 0.5     | 0.125   | 0.5     | 0.0     | 0.116     | 36.0       | 17.6 | 40.1 | 0.567   | 0.932     |
| 326 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 327 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 328 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 329 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 330 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 331 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 332 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 333 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 334 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 335 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 336 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 337 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 338 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 339 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 340 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 341 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 342 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 343 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 344 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 345 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 346 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 347 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 348 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 349 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 350 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 351 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 352 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 353 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 354 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 355 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 356 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 357 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 358 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 359 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 360 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 361 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 362 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 363 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 364 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 365 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 366 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 367 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 368 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 369 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 370 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 371 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 372 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 373 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 374 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 375 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 376 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 377 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 378 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 379 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 380 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 381 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 382 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 383 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 384 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 385 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 386 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 387 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 388 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 389 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 390 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 391 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 392 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 393 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 394 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 395 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 396 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 397 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 398 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 399 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 400 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 401 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 402 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 403 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |
| 404 | R26Y_050_050ad | 0.5     | 0.0     | 0.5     | 0.0     | 0.116     | 35.0       | 36.0 | 17.6 | 0.567   | 0.932     |

Mean color difference of this page: 0.566

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Mean color difference of this page:

input: `rgb/cmyk -> rgb`<sub>add</sub>

output: 3D-linearization to  $cmv0^*$  data

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http://130.149.60.45/~farbmatrik/QE67/QE67L0FP.PDF /PS; 3D-linearization  
F: 3D-linearization QE67/QE67LE30FP.DAT in file (F), page 25/33

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
TUB material: code=rha4ta  
application for measurement of offset print output, separation cmy0\* (CMY0)

| n     | HVC*Fid        | rgb_Fid   | lcr_Fid           | hsa_Fid | rgb*Fid   | LabCH*Fid | cmyk*sep_Fid | rgb*Fid | hsa*Fid | LabCH*Fid | delta |       |      |
|-------|----------------|-----------|-------------------|---------|-----------|-----------|--------------|---------|---------|-----------|-------|-------|------|
| 405   | R00Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.444        | 0.936   | 1.0     | 0.0       | 45.4  | 70.9  | 32.3 |
| 406   | R01Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.445        | 0.94    | 1.0     | 0.0       | 45.5  | 71.8  | 32.5 |
| 407   | R02Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.446        | 0.941   | 1.0     | 0.0       | 45.6  | 72.7  | 32.8 |
| 408   | R03Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.447        | 0.942   | 1.0     | 0.0       | 45.7  | 73.6  | 33.1 |
| 409   | R04Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.448        | 0.943   | 1.0     | 0.0       | 45.8  | 74.5  | 33.4 |
| 410   | R05Y.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.449        | 0.944   | 1.0     | 0.0       | 45.9  | 75.4  | 33.7 |
| 411   | B00R.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.450        | 0.945   | 1.0     | 0.0       | 46.0  | 76.3  | 34.0 |
| 412   | B01R.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.451        | 0.946   | 1.0     | 0.0       | 46.1  | 77.2  | 34.3 |
| 413   | B02R.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.452        | 0.947   | 1.0     | 0.0       | 46.2  | 78.1  | 34.6 |
| 414   | B03R.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.453        | 0.948   | 1.0     | 0.0       | 46.3  | 79.0  | 34.9 |
| 415   | B04R.062.062ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.454        | 0.949   | 1.0     | 0.0       | 46.4  | 79.9  | 35.2 |
| 416   | R00Y.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.455        | 0.950   | 1.0     | 0.0       | 46.5  | 80.8  | 35.5 |
| 417   | R01Y.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.456        | 0.951   | 1.0     | 0.0       | 46.6  | 81.7  | 35.8 |
| 418   | R02Y.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.457        | 0.952   | 1.0     | 0.0       | 46.7  | 82.6  | 36.1 |
| 419   | R03Y.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.458        | 0.953   | 1.0     | 0.0       | 46.8  | 83.5  | 36.4 |
| 420   | R04Y.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.459        | 0.954   | 1.0     | 0.0       | 46.9  | 84.4  | 36.7 |
| 421   | B00R.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.460        | 0.955   | 1.0     | 0.0       | 47.0  | 85.3  | 37.0 |
| 422   | B01R.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.461        | 0.956   | 1.0     | 0.0       | 47.1  | 86.2  | 37.3 |
| 423   | B02R.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.462        | 0.957   | 1.0     | 0.0       | 47.2  | 87.1  | 37.6 |
| 424   | B03R.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.463        | 0.958   | 1.0     | 0.0       | 47.3  | 88.0  | 37.9 |
| 425   | B04R.062.050ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.464        | 0.959   | 1.0     | 0.0       | 47.4  | 88.9  | 38.2 |
| 426   | R00Y.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.465        | 0.960   | 1.0     | 0.0       | 47.5  | 89.8  | 38.5 |
| 427   | R01Y.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.466        | 0.961   | 1.0     | 0.0       | 47.6  | 90.7  | 38.8 |
| 428   | R02Y.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.467        | 0.962   | 1.0     | 0.0       | 47.7  | 91.6  | 39.1 |
| 429   | R03Y.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.468        | 0.963   | 1.0     | 0.0       | 47.8  | 92.5  | 39.4 |
| 430   | R04Y.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.469        | 0.964   | 1.0     | 0.0       | 47.9  | 93.4  | 39.7 |
| 431   | B00R.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.470        | 0.965   | 1.0     | 0.0       | 48.0  | 94.3  | 40.0 |
| 432   | B01R.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.471        | 0.966   | 1.0     | 0.0       | 48.1  | 95.2  | 40.3 |
| 433   | B02R.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.472        | 0.967   | 1.0     | 0.0       | 48.2  | 96.1  | 40.6 |
| 434   | B03R.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.473        | 0.968   | 1.0     | 0.0       | 48.3  | 97.0  | 40.9 |
| 435   | B04R.062.037ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.474        | 0.969   | 1.0     | 0.0       | 48.4  | 97.9  | 41.2 |
| 436   | R00Y.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.475        | 0.970   | 1.0     | 0.0       | 48.5  | 98.8  | 41.5 |
| 437   | R01Y.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.476        | 0.971   | 1.0     | 0.0       | 48.6  | 99.7  | 41.8 |
| 438   | R02Y.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.477        | 0.972   | 1.0     | 0.0       | 48.7  | 100.6 | 42.1 |
| 439   | R03Y.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.478        | 0.973   | 1.0     | 0.0       | 48.8  | 101.5 | 42.4 |
| 440   | R04Y.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.479        | 0.974   | 1.0     | 0.0       | 48.9  | 102.4 | 42.7 |
| 441   | B00R.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.480        | 0.975   | 1.0     | 0.0       | 49.0  | 103.3 | 43.0 |
| 442   | B01R.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.481        | 0.976   | 1.0     | 0.0       | 49.1  | 104.2 | 43.3 |
| 443   | B02R.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.482        | 0.977   | 1.0     | 0.0       | 49.2  | 105.1 | 43.6 |
| 444   | B03R.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.483        | 0.978   | 1.0     | 0.0       | 49.3  | 106.0 | 43.9 |
| 445   | B04R.062.025ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.484        | 0.979   | 1.0     | 0.0       | 49.4  | 106.9 | 44.2 |
| 446   | R00Y.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.485        | 0.980   | 1.0     | 0.0       | 49.5  | 107.8 | 44.5 |
| 447   | R01Y.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.486        | 0.981   | 1.0     | 0.0       | 49.6  | 108.7 | 44.8 |
| 448   | R02Y.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.487        | 0.982   | 1.0     | 0.0       | 49.7  | 109.6 | 45.1 |
| 449   | R03Y.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.488        | 0.983   | 1.0     | 0.0       | 49.8  | 110.5 | 45.4 |
| 450   | R04Y.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.489        | 0.984   | 1.0     | 0.0       | 49.9  | 111.4 | 45.7 |
| 451   | B00R.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.490        | 0.985   | 1.0     | 0.0       | 50.0  | 112.3 | 46.0 |
| 452   | B01R.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.491        | 0.986   | 1.0     | 0.0       | 50.1  | 113.2 | 46.3 |
| 453   | B02R.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.492        | 0.987   | 1.0     | 0.0       | 50.2  | 114.1 | 46.6 |
| 454   | B03R.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.493        | 0.988   | 1.0     | 0.0       | 50.3  | 115.0 | 46.9 |
| 455   | B04R.062.012ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.494        | 0.989   | 1.0     | 0.0       | 50.4  | 115.9 | 47.2 |
| 456   | R00Y.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.495        | 0.990   | 1.0     | 0.0       | 50.5  | 116.8 | 47.5 |
| 457   | R01Y.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.496        | 0.991   | 1.0     | 0.0       | 50.6  | 117.7 | 47.8 |
| 458   | R02Y.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.497        | 0.992   | 1.0     | 0.0       | 50.7  | 118.6 | 48.1 |
| 459   | R03Y.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.498        | 0.993   | 1.0     | 0.0       | 50.8  | 119.5 | 48.4 |
| 460   | R04Y.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.499        | 0.994   | 1.0     | 0.0       | 50.9  | 120.4 | 48.7 |
| 461   | B00R.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.500        | 0.995   | 1.0     | 0.0       | 51.0  | 121.3 | 49.0 |
| 462   | B01R.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.501        | 0.996   | 1.0     | 0.0       | 51.1  | 122.2 | 49.3 |
| 463   | B02R.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.502        | 0.997   | 1.0     | 0.0       | 51.2  | 123.1 | 49.6 |
| 464   | B03R.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.503        | 0.998   | 1.0     | 0.0       | 51.3  | 124.0 | 49.9 |
| 465   | B04R.062.009ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.504        | 0.999   | 1.0     | 0.0       | 51.4  | 124.9 | 50.2 |
| 466   | R00Y.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.505        | 1.000   | 1.0     | 0.0       | 51.5  | 125.8 | 50.5 |
| 467   | R01Y.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.506        | 1.001   | 1.0     | 0.0       | 51.6  | 126.7 | 50.8 |
| 468   | R02Y.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.507        | 1.002   | 1.0     | 0.0       | 51.7  | 127.6 | 51.1 |
| 469   | R03Y.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.508        | 1.003   | 1.0     | 0.0       | 51.8  | 128.5 | 51.4 |
| 470   | R04Y.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.509        | 1.004   | 1.0     | 0.0       | 51.9  | 129.4 | 51.7 |
| 471   | B00R.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.510        | 1.005   | 1.0     | 0.0       | 52.0  | 130.3 | 52.0 |
| 472   | B01R.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.511        | 1.006   | 1.0     | 0.0       | 52.1  | 131.2 | 52.3 |
| 473   | B02R.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.512        | 1.007   | 1.0     | 0.0       | 52.2  | 132.1 | 52.6 |
| 474   | B03R.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.513        | 1.008   | 1.0     | 0.0       | 52.3  | 133.0 | 52.9 |
| 475   | B04R.062.006ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.514        | 1.009   | 1.0     | 0.0       | 52.4  | 133.9 | 53.2 |
| 476   | R00Y.062.003ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.515        | 1.010   | 1.0     | 0.0       | 52.5  | 134.8 | 53.5 |
| 477   | R01Y.062.003ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.516        | 1.011   | 1.0     | 0.0       | 52.6  | 135.7 | 53.8 |
| 478   | R02Y.062.003ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.517        | 1.012   | 1.0     | 0.0       | 52.7  | 136.6 | 54.1 |
| 479   | R03Y.062.003ad | 0.625 0.0 | 0.625 0.625 0.312 | 390     | 0.625 0.0 | 37.5      | 0.518        | 1.013   | 1.0     | 0.0       | 52.8  | 137.5 | 54.4 |
| 480</ |                |           |                   |         |           |           |              |         |         |           |       |       |      |

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS TUB material: code=rha4ta  
application for measurement of offset print output, separation cmy0\* (CMY0)

| n   | HVC* <sub>Fid</sub>         | rgb* <sub>Fid</sub> | lcr* <sub>Fid</sub> | hsa* <sub>Fid</sub> | rgb* <sub>Fid</sub> | LabCH* <sub>Fid</sub> | cmyn* <sub>sep,Fid</sub> | hsv* <sub>id</sub> | rgb* <sub>id</sub> | LabCH* <sub>id</sub> | delta            |
|-----|-----------------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|--------------------------|--------------------|--------------------|----------------------|------------------|
| 486 | R00Y,075,075 <sub>id</sub>  | 0.75, 0.0, 0.0      | 0.75, 0.75, 0.75    | 390, 381, 390       | 0.0, 0.0, 0.0       | 40.2, 53.2, 53.2      | 32.3, 62.9, 33.6         | 0.951, 0.992, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 487 | R35Y,075,075 <sub>id</sub>  | 0.75, 0.0, 0.125    | 0.75, 0.75, 0.375   | 381, 375, 381       | 0.75, 0.0, 0.112    | 40.2, 53.2, 53.2      | 32.3, 62.9, 33.6         | 0.956, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 488 | R10Y,075,075 <sub>id</sub>  | 0.75, 0.0, 0.25     | 0.75, 0.75, 0.75    | 371, 375, 371       | 0.75, 0.0, 0.237    | 40.4, 54.5, 54.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 489 | R80Y,075,075 <sub>id</sub>  | 0.75, 0.0, 0.375    | 0.75, 0.75, 0.75    | 361, 375, 361       | 0.75, 0.0, 0.375    | 40.4, 54.5, 54.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 490 | B65R,075,075 <sub>id</sub>  | 0.75, 0.0, 0.5      | 0.75, 0.75, 0.75    | 349, 375, 349       | 0.75, 0.0, 0.512    | 40.5, 57.3, 57.3      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 491 | B57R,075,075 <sub>id</sub>  | 0.75, 0.0, 0.625    | 0.75, 0.75, 0.75    | 339, 375, 339       | 0.75, 0.0, 0.637    | 40.5, 58.5, 58.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 492 | B50R,075,075 <sub>id</sub>  | 0.75, 0.0, 0.75     | 0.75, 0.75, 0.75    | 330, 375, 330       | 0.75, 0.0, 0.75     | 40.6, 59.4, 59.4      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 493 | B43R,087,087 <sub>id</sub>  | 0.75, 0.0, 0.875    | 0.875, 0.875, 0.875 | 322, 375, 322       | 0.75, 0.0, 0.875    | 41.6, 65.5, 65.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 494 | B38R,100,100 <sub>id</sub>  | 0.75, 0.0, 1.0      | 1.0, 1.0, 1.0       | 316, 375, 316       | 0.75, 0.0, 1.0      | 42.1, 71.6, 71.6      | 32.3, 62.9, 33.6         | 0.999, 0.0, 0.0    | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 495 | R15Y,075,075 <sub>id</sub>  | 0.75, 0.125, 0.0    | 0.75, 0.75, 0.375   | 390, 375, 390       | 0.75, 0.112, 0.0    | 43.4, 55.5, 55.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 496 | R31Y,075,075 <sub>id</sub>  | 0.75, 0.125, 0.125  | 0.75, 0.75, 0.625   | 381, 375, 381       | 0.75, 0.125, 0.125  | 44.4, 58.5, 58.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 497 | R47Y,075,075 <sub>id</sub>  | 0.75, 0.125, 0.25   | 0.75, 0.75, 0.625   | 371, 375, 371       | 0.75, 0.125, 0.25   | 44.4, 58.5, 58.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 498 | R63Y,075,075 <sub>id</sub>  | 0.75, 0.125, 0.375  | 0.75, 0.75, 0.625   | 361, 375, 361       | 0.75, 0.125, 0.375  | 44.4, 58.5, 58.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 499 | B69R,075,075 <sub>id</sub>  | 0.75, 0.125, 0.5    | 0.75, 0.75, 0.625   | 353, 375, 353       | 0.75, 0.125, 0.5    | 46.6, 45.7, 45.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 500 | B59R,075,075 <sub>id</sub>  | 0.75, 0.125, 0.625  | 0.75, 0.75, 0.625   | 341, 375, 341       | 0.75, 0.125, 0.625  | 46.6, 45.7, 45.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 501 | B50R,075,075 <sub>id</sub>  | 0.75, 0.125, 0.75   | 0.75, 0.75, 0.625   | 330, 375, 330       | 0.75, 0.125, 0.75   | 46.6, 45.7, 45.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 502 | B42R,087,075 <sub>id</sub>  | 0.75, 0.125, 0.875  | 0.875, 0.75, 0.5    | 321, 375, 321       | 0.75, 0.125, 0.875  | 47.8, 55.7, 55.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 503 | B36R,100,087 <sub>id</sub>  | 0.75, 0.125, 1.0    | 1.0, 0.875, 0.562   | 314, 375, 314       | 0.75, 0.125, 1.0    | 48.1, 61.5, 61.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 504 | R10Y,075,075 <sub>id</sub>  | 0.75, 0.25, 0.0     | 0.75, 0.75, 0.375   | 390, 375, 390       | 0.75, 0.25, 0.0     | 48.1, 61.5, 61.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 505 | R26Y,075,075 <sub>id</sub>  | 0.75, 0.25, 0.125   | 0.75, 0.75, 0.625   | 381, 375, 381       | 0.75, 0.25, 0.125   | 48.1, 61.5, 61.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 506 | R42Y,075,075 <sub>id</sub>  | 0.75, 0.25, 0.25    | 0.75, 0.75, 0.625   | 371, 375, 371       | 0.75, 0.25, 0.25    | 48.1, 61.5, 61.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 507 | R58Y,075,075 <sub>id</sub>  | 0.75, 0.25, 0.375   | 0.75, 0.75, 0.625   | 361, 375, 361       | 0.75, 0.25, 0.375   | 48.1, 61.5, 61.5      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 508 | B64R,075,075 <sub>id</sub>  | 0.75, 0.25, 0.5     | 0.75, 0.75, 0.625   | 353, 375, 353       | 0.75, 0.25, 0.5     | 52.9, 37.1, 37.1      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 509 | B61R,075,075 <sub>id</sub>  | 0.75, 0.25, 0.625   | 0.75, 0.75, 0.625   | 344, 375, 344       | 0.75, 0.25, 0.625   | 52.9, 37.1, 37.1      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 510 | B53R,075,075 <sub>id</sub>  | 0.75, 0.25, 0.75    | 0.75, 0.75, 0.625   | 334, 375, 334       | 0.75, 0.25, 0.75    | 52.9, 37.1, 37.1      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 511 | B45R,100,075 <sub>id</sub>  | 0.75, 0.25, 0.875   | 0.875, 0.75, 0.5    | 324, 375, 324       | 0.75, 0.25, 0.875   | 53.0, 38.6, 38.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 512 | B37R,100,075 <sub>id</sub>  | 0.75, 0.25, 1.0     | 1.0, 0.75, 0.625    | 314, 375, 314       | 0.75, 0.25, 1.0     | 53.0, 38.6, 38.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 513 | R80Y,075,075 <sub>id</sub>  | 0.75, 0.375, 0.0    | 0.75, 0.75, 0.375   | 390, 375, 390       | 0.75, 0.375, 0.0    | 54.7, 21.6, 21.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 514 | R96Y,075,075 <sub>id</sub>  | 0.75, 0.375, 0.125  | 0.75, 0.75, 0.625   | 381, 375, 381       | 0.75, 0.375, 0.125  | 55.2, 24.4, 24.4      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 515 | R12Y,075,075 <sub>id</sub>  | 0.75, 0.375, 0.25   | 0.75, 0.75, 0.625   | 371, 375, 371       | 0.75, 0.375, 0.25   | 56.5, 26.6, 26.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 516 | R28Y,075,075 <sub>id</sub>  | 0.75, 0.375, 0.375  | 0.75, 0.75, 0.625   | 361, 375, 361       | 0.75, 0.375, 0.375  | 59.0, 26.6, 26.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 517 | R44Y,075,075 <sub>id</sub>  | 0.75, 0.375, 0.5    | 0.75, 0.75, 0.625   | 351, 375, 351       | 0.75, 0.375, 0.5    | 59.1, 27.2, 27.2      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 518 | B60R,075,075 <sub>id</sub>  | 0.75, 0.375, 0.625  | 0.75, 0.75, 0.625   | 349, 375, 349       | 0.75, 0.375, 0.625  | 59.1, 28.6, 28.6      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 519 | B50R,075,075 <sub>id</sub>  | 0.75, 0.375, 0.75   | 0.75, 0.75, 0.625   | 339, 375, 339       | 0.75, 0.375, 0.75   | 59.2, 29.7, 29.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 520 | B38R,087,075 <sub>id</sub>  | 0.75, 0.375, 0.875  | 0.875, 0.75, 0.5    | 330, 375, 330       | 0.75, 0.375, 0.875  | 59.9, 35.8, 35.8      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 521 | B30R,100,062 <sub>id</sub>  | 0.75, 0.375, 1.0    | 1.0, 0.625, 0.887   | 307, 375, 307       | 0.75, 0.375, 1.0    | 62.2, 8.2, 8.2        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 522 | R60Y,075,075 <sub>id</sub>  | 0.75, 0.5, 0.0      | 0.75, 0.75, 0.375   | 390, 375, 390       | 0.75, 0.5, 0.0      | 62.2, 8.2, 8.2        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 523 | R76Y,075,075 <sub>id</sub>  | 0.75, 0.5, 0.125    | 0.75, 0.75, 0.625   | 381, 375, 381       | 0.75, 0.5, 0.125    | 62.4, 14.4, 14.4      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 524 | R92Y,075,075 <sub>id</sub>  | 0.75, 0.5, 0.25     | 0.75, 0.75, 0.625   | 371, 375, 371       | 0.75, 0.5, 0.25     | 62.4, 14.4, 14.4      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 525 | R108Y,075,075 <sub>id</sub> | 0.75, 0.5, 0.375    | 0.75, 0.75, 0.625   | 361, 375, 361       | 0.75, 0.5, 0.375    | 62.4, 14.4, 14.4      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 526 | B66R,075,075 <sub>id</sub>  | 0.75, 0.5, 0.5      | 0.75, 0.75, 0.625   | 353, 375, 353       | 0.75, 0.5, 0.5      | 65.2, 17.7, 17.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 527 | B56R,075,075 <sub>id</sub>  | 0.75, 0.5, 0.625    | 0.75, 0.75, 0.625   | 344, 375, 344       | 0.75, 0.5, 0.625    | 65.2, 17.7, 17.7      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 528 | B46R,075,075 <sub>id</sub>  | 0.75, 0.5, 0.75     | 0.75, 0.75, 0.625   | 334, 375, 334       | 0.75, 0.5, 0.75     | 65.4, 19.8, 19.8      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 529 | B34R,087,075 <sub>id</sub>  | 0.75, 0.5, 0.875    | 0.875, 0.75, 0.5    | 324, 375, 324       | 0.75, 0.5, 0.875    | 65.4, 19.8, 19.8      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 530 | B26R,100,050 <sub>id</sub>  | 0.75, 0.5, 1.0      | 1.0, 0.5, 0.75      | 310, 375, 310       | 0.75, 0.5, 1.0      | 65.6, 29.3, 29.3      | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 531 | R85Y,075,075 <sub>id</sub>  | 0.75, 0.625, 0.0    | 0.75, 0.75, 0.375   | 390, 375, 390       | 0.75, 0.625, 0.0    | 67.8, 1.1, 1.1        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 532 | R101Y,075,075 <sub>id</sub> | 0.75, 0.625, 0.125  | 0.75, 0.75, 0.625   | 381, 375, 381       | 0.75, 0.625, 0.125  | 68.6, 0.5, 0.5        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 533 | R117Y,075,075 <sub>id</sub> | 0.75, 0.625, 0.25   | 0.75, 0.75, 0.625   | 371, 375, 371       | 0.75, 0.625, 0.25   | 69.3, 2.1, 2.1        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 534 | R133Y,075,075 <sub>id</sub> | 0.75, 0.625, 0.375  | 0.75, 0.75, 0.625   | 361, 375, 361       | 0.75, 0.625, 0.375  | 70.0, 4.1, 4.1        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  | 0.0, 0.0, 0.0      | 45.4, 70.9, 44.8     | 83.9, 32.3, 32.3 |
| 535 | R149Y,075,075 <sub>id</sub> | 0.75, 0.625, 0.5    | 0.75, 0.75, 0.625   | 353, 375, 353       | 0.75, 0.625, 0.5    | 70.1, 7.2, 7.2        | 32.3, 62.9, 33.6         | 0.953, 0.988, 0.0  |                    |                      |                  |



TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS TUB material: code=rha4ta  
application for measurement of offset print output, separation cmy0\* (CMY0)

http://130.149.60.45/~farbmatrik/QE67/QE67L0FP.PDF /.PS; 3D-linearization  
F: 3D-linearization QE67/QE67L0FP.DAT in file (F), page 28/33

| n   | HVC-Fid        | rgb-Fid | icr-Fid | hsa-Fid | rgb*Fid | LabCh*Fid | cmyn*sep-Fid | rgb*Mid | LabCh*Mid | delta |
|-----|----------------|---------|---------|---------|---------|-----------|--------------|---------|-----------|-------|
| 648 | R00Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 45.4      | 70.9         | 44.8    | 83.9      | 32.3  |
| 649 | R38Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 45.5      | 71.4         | 40.4    | 82.1      | 29.5  |
| 650 | R16Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 45.6      | 72.1         | 35.3    | 80.3      | 26.1  |
| 651 | R23Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 45.8      | 72.9         | 28.7    | 78.4      | 21.5  |
| 652 | R00Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 45.9      | 74.2         | 21.1    | 77.1      | 15.9  |
| 653 | R68R_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 46.0      | 75.7         | 14.4    | 77.1      | 10.8  |
| 654 | B61R_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 46.1      | 77.3         | 8.0     | 77.7      | 5.9   |
| 655 | B55R_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 46.2      | 79.8         | 3.8     | 78.4      | 2.8   |
| 656 | B50R_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 46.3      | 82.3         | 0.0     | 80.2      | 0.0   |
| 657 | R11Y_100_100ad | 1.0     | 0.0     | 0.0     | 0.0     | 46.4      | 84.8         | -0.2    | 81.7      | -0.2  |
| 658 | R00Y_100_097ad | 1.0     | 0.875   | 0.562   | 390     | 46.5      | 87.3         | -0.2    | 83.9      | 359.8 |
| 659 | R36Y_100_097ad | 1.0     | 0.875   | 0.562   | 382     | 46.6      | 90.0         | -0.2    | 86.6      | 359.8 |
| 660 | R23Y_100_097ad | 1.0     | 0.875   | 0.562   | 374     | 46.7      | 92.7         | -0.2    | 89.3      | 359.8 |
| 661 | R00Y_100_097ad | 1.0     | 0.875   | 0.562   | 366     | 46.8      | 95.4         | -0.2    | 92.0      | 359.8 |
| 662 | B70R_100_097ad | 1.0     | 0.875   | 0.562   | 358     | 46.9      | 98.1         | -0.2    | 94.7      | 359.8 |
| 663 | B63R_100_097ad | 1.0     | 0.875   | 0.562   | 350     | 47.0      | 100.8        | -0.2    | 97.4      | 359.8 |
| 664 | B56R_100_097ad | 1.0     | 0.875   | 0.562   | 342     | 47.1      | 103.5        | -0.2    | 100.1     | 359.8 |
| 665 | B50R_100_097ad | 1.0     | 0.875   | 0.562   | 334     | 47.2      | 106.2        | -0.2    | 102.4     | 359.8 |
| 666 | R23Y_100_100ad | 1.0     | 0.875   | 0.562   | 326     | 47.3      | 108.9        | -0.2    | 105.1     | 359.8 |
| 667 | R13Y_100_100ad | 1.0     | 0.875   | 0.562   | 318     | 47.4      | 111.6        | -0.2    | 107.8     | 359.8 |
| 668 | R00Y_100_100ad | 1.0     | 0.875   | 0.562   | 310     | 47.5      | 114.3        | -0.2    | 110.5     | 359.8 |
| 669 | R33Y_100_100ad | 1.0     | 0.875   | 0.562   | 302     | 47.6      | 117.0        | -0.2    | 113.2     | 359.8 |
| 670 | R18Y_100_100ad | 1.0     | 0.875   | 0.562   | 294     | 47.7      | 119.7        | -0.2    | 115.9     | 359.8 |
| 671 | R00Y_100_100ad | 1.0     | 0.875   | 0.562   | 286     | 47.8      | 122.4        | -0.2    | 118.6     | 359.8 |
| 672 | B63R_100_075ad | 1.0     | 0.75    | 0.625   | 349     | 47.9      | 125.1        | -0.2    | 121.3     | 359.8 |
| 673 | B56R_100_075ad | 1.0     | 0.75    | 0.625   | 341     | 48.0      | 127.8        | -0.2    | 124.0     | 359.8 |
| 674 | B50R_100_075ad | 1.0     | 0.75    | 0.625   | 333     | 48.1      | 130.5        | -0.2    | 126.7     | 359.8 |
| 675 | R36Y_100_100ad | 1.0     | 0.875   | 0.562   | 325     | 48.2      | 133.2        | -0.2    | 129.4     | 359.8 |
| 676 | R23Y_100_100ad | 1.0     | 0.875   | 0.562   | 317     | 48.3      | 135.9        | -0.2    | 132.1     | 359.8 |
| 677 | R13Y_100_100ad | 1.0     | 0.875   | 0.562   | 309     | 48.4      | 138.6        | -0.2    | 134.8     | 359.8 |
| 678 | R00Y_100_100ad | 1.0     | 0.875   | 0.562   | 301     | 48.5      | 141.3        | -0.2    | 137.5     | 359.8 |
| 679 | R31Y_100_062ad | 1.0     | 0.625   | 0.687   | 390     | 48.6      | 144.0        | -0.2    | 140.2     | 359.8 |
| 680 | R18Y_100_062ad | 1.0     | 0.625   | 0.687   | 382     | 48.7      | 146.7        | -0.2    | 142.9     | 359.8 |
| 681 | B69R_100_062ad | 1.0     | 0.625   | 0.687   | 374     | 48.8      | 149.4        | -0.2    | 145.6     | 359.8 |
| 682 | B59R_100_062ad | 1.0     | 0.625   | 0.687   | 366     | 48.9      | 152.1        | -0.2    | 148.3     | 359.8 |
| 683 | B50R_100_062ad | 1.0     | 0.625   | 0.687   | 358     | 49.0      | 154.8        | -0.2    | 151.0     | 359.8 |
| 684 | R50Y_100_100ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.1      | 157.5        | -0.2    | 153.7     | 359.8 |
| 685 | R41Y_100_097ad | 1.0     | 0.875   | 0.562   | 350     | 48.2      | 160.2        | -0.2    | 156.4     | 359.8 |
| 686 | R31Y_100_075ad | 1.0     | 0.75    | 0.625   | 342     | 48.3      | 162.9        | -0.2    | 159.1     | 359.8 |
| 687 | R18Y_100_062ad | 1.0     | 0.625   | 0.687   | 334     | 48.4      | 165.6        | -0.2    | 161.8     | 359.8 |
| 688 | R00Y_100_050ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.5      | 168.3        | -0.2    | 164.5     | 359.8 |
| 689 | R26Y_100_050ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.6      | 171.0        | -0.2    | 167.2     | 359.8 |
| 690 | R00Y_100_050ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.7      | 173.7        | -0.2    | 169.9     | 359.8 |
| 691 | B61R_100_050ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.8      | 176.4        | -0.2    | 172.6     | 359.8 |
| 692 | B50R_100_050ad | 1.0     | 0.5     | 0.0     | 0.0     | 48.9      | 179.1        | -0.2    | 175.3     | 359.8 |
| 693 | R63Y_100_100ad | 1.0     | 0.625   | 0.625   | 390     | 49.0      | 181.8        | -0.2    | 178.0     | 359.8 |
| 694 | R38Y_100_097ad | 1.0     | 0.875   | 0.562   | 382     | 49.1      | 184.5        | -0.2    | 180.7     | 359.8 |
| 695 | R26Y_100_075ad | 1.0     | 0.75    | 0.625   | 374     | 49.2      | 187.2        | -0.2    | 183.4     | 359.8 |
| 696 | R13Y_100_062ad | 1.0     | 0.625   | 0.687   | 366     | 49.3      | 189.9        | -0.2    | 186.1     | 359.8 |
| 697 | R00Y_100_050ad | 1.0     | 0.625   | 0.687   | 358     | 49.4      | 192.6        | -0.2    | 188.8     | 359.8 |
| 698 | R23Y_100_050ad | 1.0     | 0.625   | 0.687   | 350     | 49.5      | 195.3        | -0.2    | 191.5     | 359.8 |
| 699 | R18Y_100_037ad | 1.0     | 0.375   | 0.812   | 390     | 49.6      | 198.0        | -0.2    | 194.2     | 359.8 |
| 700 | B63R_100_037ad | 1.0     | 0.375   | 0.812   | 382     | 49.7      | 200.7        | -0.2    | 196.9     | 359.8 |
| 701 | B50R_100_037ad | 1.0     | 0.375   | 0.812   | 374     | 49.8      | 203.4        | -0.2    | 199.6     | 359.8 |
| 702 | R76Y_100_100ad | 1.0     | 0.75    | 0.125   | 390     | 49.9      | 206.1        | -0.2    | 202.3     | 359.8 |
| 703 | R33Y_100_100ad | 1.0     | 0.875   | 0.562   | 382     | 50.0      | 208.8        | -0.2    | 205.0     | 359.8 |
| 704 | B63R_100_050ad | 1.0     | 0.75    | 0.625   | 374     | 50.1      | 211.5        | -0.2    | 207.7     | 359.8 |
| 705 | B56R_100_050ad | 1.0     | 0.75    | 0.625   | 366     | 50.2      | 214.2        | -0.2    | 210.4     | 359.8 |
| 706 | B50Y_100_050ad | 1.0     | 0.75    | 0.625   | 358     | 50.3      | 216.9        | -0.2    | 213.1     | 359.8 |
| 707 | R31Y_100_037ad | 1.0     | 0.375   | 0.812   | 390     | 50.4      | 219.6        | -0.2    | 215.8     | 359.8 |
| 708 | R00Y_100_025ad | 1.0     | 0.25    | 0.875   | 390     | 50.5      | 222.3        | -0.2    | 218.5     | 359.8 |
| 709 | R38Y_100_025ad | 1.0     | 0.75    | 0.875   | 382     | 50.6      | 225.0        | -0.2    | 221.2     | 359.8 |
| 710 | B50R_100_025ad | 1.0     | 0.75    | 0.875   | 374     | 50.7      | 227.7        | -0.2    | 223.9     | 359.8 |
| 711 | R88Y_100_100ad | 1.0     | 0.875   | 0.125   | 390     | 50.8      | 230.4        | -0.2    | 226.6     | 359.8 |
| 712 | R63Y_100_097ad | 1.0     | 0.875   | 0.125   | 382     | 50.9      | 233.1        | -0.2    | 229.3     | 359.8 |
| 713 | R38Y_100_062ad | 1.0     | 0.875   | 0.125   | 374     | 51.0      | 235.8        | -0.2    | 232.0     | 359.8 |
| 714 | R18Y_100_062ad | 1.0     | 0.875   | 0.125   | 366     | 51.1      | 238.5        | -0.2    | 234.7     | 359.8 |
| 715 | R76Y_100_050ad | 1.0     | 0.875   | 0.125   | 358     | 51.2      | 241.2        | -0.2    | 237.4     | 359.8 |
| 716 | R63Y_100_037ad | 1.0     | 0.875   | 0.125   | 350     | 51.3      | 243.9        | -0.2    | 240.1     | 359.8 |
| 717 | R50Y_100_025ad | 1.0     | 0.875   | 0.125   | 342     | 51.4      | 246.6        | -0.2    | 242.8     | 359.8 |
| 718 | R00Y_100_012ad | 1.0     | 0.875   | 0.125   | 334     | 51.5      | 249.3        | -0.2    | 245.5     | 359.8 |
| 719 | B50R_100_012ad | 1.0     | 0.875   | 0.125   | 326     | 51.6      | 252.0        | -0.2    | 248.2     | 359.8 |
| 720 | Y00C_100_100ad | 1.0     | 1.0     | 0.0     | 0.0     | 51.7      | 254.7        | -0.2    | 250.9     | 359.8 |
| 721 | Y00C_100_087ad | 1.0     | 1.0     | 0.0     | 0.0     | 51.8      | 257.4        | -0.2    | 253.6     | 359.8 |
| 722 | Y00C_100_075ad | 1.0     | 1.0     | 0.0     | 0.0     | 51.9      | 260.1        | -0.2    | 256.3     | 359.8 |
| 723 | Y00C_100_062ad | 1.0     | 1.0     | 0.0     | 0.0     | 52.0      | 262.8        | -0.2    | 259.0     | 359.8 |
| 724 | Y00C_100_050ad | 1.0     | 1.0     | 0.0     | 0.0     | 52.1      | 265.5        | -0.2    | 261.7     | 359.8 |
| 725 | Y00C_100_037ad | 1.0     | 1.0     | 0.0     | 0.0     | 52.2      | 268.2        | -0.2    | 264.4     | 359.8 |
| 726 | Y00C_100_025ad | 1.0     | 1.0     | 0.0     | 0.0     | 52.3      | 270.9        | -0.2    | 267.1     | 359.8 |
| 727 | Y00C_100_012ad | 1.0     | 1.0     | 0.0     | 0.0     | 52.4      | 273.6        | -0.2    | 269.8     | 359.8 |
| 728 | NW_100ad       | 1.0     | 1.0     | 1.0     | 1.0     | 52.5      | 276.3        | -0.2    | 272.5     | 359.8 |

QE670-7N; Page 28/33-F

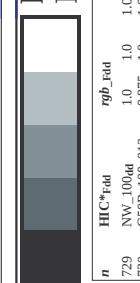
TUB-test chart QE67; hue code: H\*d=Y75Gd  
colors and differences, ΔE\*

input: rgb/cmyk -> rgbdd  
output: 3D-linearization to cmy0\*dd

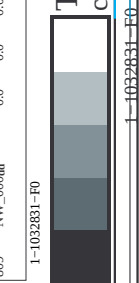
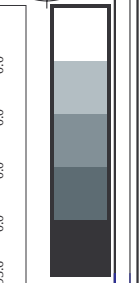
see similar files: <http://130.149.60.45/~farbmatrik/QE67/QE67.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS application for measurement of offset print output, separation cmy0\* (CMY0)

see similar files: <http://130.149.60.45/~farbmatrik/QE67/QE67L0FP.PDF> /.PS; 3D-linearization technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



http://130.149.60.45/~farbmatrik/QE67/QE67L0FP.PDF /.PS; 3D-linearization F: 3D-linearization QE67/QE67L0FP.DAT in file (F), page 29/33



input: *rgb/cmyk* -> *rgbbd*  
output: 3D-linearization to *cmy0\** *dd*

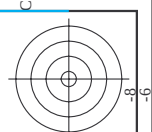
TUB-test chart QE67; hue code: H\*d=Y75Gd  
colors and differences, ΔE\*

| n   | HVC-Fid        | rgb-Fid | lch-Fid | hsa-Fid | rgb-Fid | LabCh-Fid | cmy0* <sub>sep</sub> -Fid | rgbbd | hsa-bd | LabCh-bd | cmy0* <sub>sep</sub> -bd | delta |
|-----|----------------|---------|---------|---------|---------|-----------|---------------------------|-------|--------|----------|--------------------------|-------|
| 729 | NW_100Ad       | 0.875   | 1.0     | 1.0     | 1.0     | 95.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 730 | G50B_100.012Ad | 0.875   | 1.0     | 1.0     | 1.0     | 90.7      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 731 | G50B_100.025Ad | 0.875   | 1.0     | 1.0     | 1.0     | 85.9      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 732 | G50B_100.037Ad | 0.875   | 1.0     | 1.0     | 1.0     | 81.0      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 733 | G50B_100.050Ad | 0.875   | 1.0     | 1.0     | 1.0     | 76.2      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 734 | G50B_100.062Ad | 0.875   | 1.0     | 1.0     | 1.0     | 71.3      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 735 | G50B_100.075Ad | 0.875   | 1.0     | 1.0     | 1.0     | 66.5      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 736 | G50B_100.087Ad | 0.875   | 1.0     | 1.0     | 1.0     | 61.6      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 737 | G50B_100.100Ad | 0.875   | 1.0     | 1.0     | 1.0     | 56.8      | 0.0                       | 1.0   | 210    | 0.0      | 0.0                      | 0.0   |
| 738 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 739 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 740 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 741 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 742 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 743 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 744 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 745 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 746 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 747 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 748 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 749 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 750 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 751 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 752 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 753 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 754 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 755 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 756 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 757 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 758 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 759 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 760 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 761 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 762 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 763 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 764 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 765 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 766 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 767 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 768 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 769 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 770 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 771 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 772 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 773 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 774 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 775 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 776 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 777 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 778 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 779 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 780 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 781 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 782 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 783 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 784 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 785 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 786 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 787 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 788 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 789 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 790 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 791 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 792 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 793 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 794 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 795 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 796 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 797 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 798 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 799 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 800 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 801 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 802 | ROY_100.012Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 89.3      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 803 | ROY_100.025Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 84.4      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 804 | ROY_100.037Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 79.5      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 805 | ROY_100.050Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 74.6      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 806 | ROY_100.062Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 69.7      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 807 | ROY_100.075Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 64.8      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 808 | ROY_100.087Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 59.9      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |
| 809 | ROY_100.100Ad  | 0.875   | 1.0     | 1.0     | 1.0     | 55.0      | 0.0                       | 1.0   | 360    | 0.0      | 0.0                      | 0.0   |



TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS  
- application for measurement of offset print output, separations

TUB material: code=rha4ta  
ny0\* (CMY0)



3D-linearization QE67/QE67LE30FP.DAT in file (F), page 30/33

[illegible]

Mean color difference of this page:

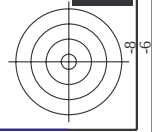
TUB-test chart QE67; hue code:  $H_d^* = Y75G_d$   
colors and differences,  $\Delta E^*$

input: *rgb/cmyk*  $\rightarrow$  *rgb<sub>dd</sub>*  
output: 3D-linearization to *cmy0\**<sub>dd</sub>

QE670-7N, Page 30/33-F

-1032931-F0

-see similar files: <http://130.149.60.45/~farbmatrik/QE67/QE67.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>









http://130.149.60.45/~farbmetrik/QE67/QE67L0FP.PDF /PS; 3D-linearization  
F: 3D-linearization QE67/QE67LE30FP.DAT in file (F), page 33/33

TUB registration: 20130201-QE67/QE67L0FP.PDF /.PS TUB material: code=rha4ta  
application for measurement of offset print output, separation cmy0\* (CMY0)

see similar files: <http://130.149.60.45/~farbmetrik/QE67/QE67L0FP.PDF>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

| n    | HC*            | rgb*              | lch*              | hs*               | rgb*              | LabCH*         | cmyn*             | delta | rgb* | hs* | LabCH* | cmyn* | 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 | 86.6 86.6 86.6 | 0.173 0.108 0.099 | 0.0   | 0.0  | 0.0 | 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 | 90.8 90.8 90.8 | 0.09 0.054 0.05   | 0.0   | 0.0  | 0.0 | 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       | 95.6 95.6 95.6 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1056 | 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       | 24.3 24.3 24.3 | 1.0 1.0 1.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1057 | NW_006dd       | 0.066 0.066 0.066 | 0.066 0.066 0.066 | 0.066 0.066 0.066 | 0.066 0.066 0.066 | 29.0 29.0 29.0 | 0.935 0.855 0.825 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1058 | 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 | 33.8 33.8 33.8 | 0.879 0.763 0.725 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1059 | NW_020dd       | 0.2 0.2 0.2       | 0.2 0.2 0.2       | 0.2 0.2 0.2       | 0.2 0.2 0.2       | 38.6 38.6 38.6 | 0.799 0.661 0.614 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1060 | 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 | 43.3 43.3 43.3 | 0.731 0.571 0.537 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1061 | NW_033dd       | 0.333 0.333 0.333 | 0.333 0.333 0.333 | 0.333 0.333 0.333 | 0.333 0.333 0.333 | 48.1 48.1 48.1 | 0.682 0.507 0.485 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1062 | NW_040dd       | 0.4 0.4 0.4       | 0.4 0.4 0.4       | 0.4 0.4 0.4       | 0.4 0.4 0.4       | 52.8 52.8 52.8 | 0.636 0.454 0.433 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1063 | 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 | 57.5 57.5 57.5 | 0.574 0.404 0.381 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1064 | 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 | 62.3 62.3 62.3 | 0.509 0.354 0.33  | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1065 | NW_060dd       | 0.6 0.6 0.6       | 0.6 0.6 0.6       | 0.6 0.6 0.6       | 0.6 0.6 0.6       | 67.1 67.1 67.1 | 0.442 0.285 0.278 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1066 | 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 | 71.8 71.8 71.8 | 0.377 0.228 0.228 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1067 | 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 | 76.6 76.6 76.6 | 0.314 0.191 0.186 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1068 | NW_080dd       | 0.8 0.8 0.8       | 0.8 0.8 0.8       | 0.8 0.8 0.8       | 0.8 0.8 0.8       | 81.3 81.3 81.3 | 0.252 0.153 0.146 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1069 | 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 | 86.0 86.0 86.0 | 0.173 0.108 0.099 | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1070 | 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 | 90.8 90.8 90.8 | 0.09 0.054 0.05   | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1071 | 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       | 95.6 95.6 95.6 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 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       | 24.3 24.3 24.3 | 1.0 1.0 1.0       | 0.0   | 0.0  | 0.0 | 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       | 95.6 95.6 95.6 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 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       | 45.4 45.4 45.4 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1075 | Y06B_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       | 96.0 96.0 96.0 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1076 | B06B_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       | 25.0 25.0 25.0 | 1.0 1.0 1.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1077 | B06B_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       | 96.0 96.0 96.0 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1078 | B06B_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       | 25.0 25.0 25.0 | 1.0 1.0 1.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |
| 1079 | B50B_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       | 95.6 95.6 95.6 | 0.0 0.0 0.0       | 0.0   | 0.0  | 0.0 | 0.0    | 0.0   | 0.0   |

input: rgb/cmyk -> rgbdd  
output: 3D-linearization to cmy0\*dd

TUB-test chart QE67; hue code: H\*d=Y75Gd  
colors and differences, ΔE\*