

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 86/360 = 0.24$

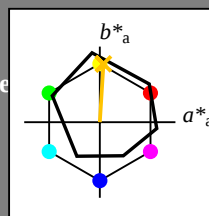
Datos del dispositivo (d) o elemental (e) color:

$HIC^*$

código de tono para les colore  
esta página:

$H^*_ = R75Y_-$

triángulo claridad  $T^*$



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

Los datos de color máximo (Ma):

$LabCh^*_{-,Ma}$ : 80 4 77 77 86

$HIC^*_{-,Ma}$ : R75Y\_100\_100-

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

1.0 0.76 0.0 1.0 1.0

triángulo claridad  $T^*$

%Gama

$u^*_{rel} = 92$

%Regularidad

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

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

| ORS20a; datos adaptados CIELAB (a) |             |         |         |              |              |
|------------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_$                             | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100-                      | 48.4        | 66.1    | 40.2    | 77.3         | 31           |
| R25Y_100_100-                      | 56.8        | 48.0    | 50.5    | 69.6         | 46           |
| R50Y_100_100-                      | 68.6        | 25.0    | 63.9    | 68.6         | 68           |
| R75Y_100_100-                      | 80.6        | 4.8     | 77.2    | 77.3         | 86           |
| Y00G_100_100-                      | 90.2        | -9.6    | 88.2    | 88.7         | 96           |
| Y25G_100_100-                      | 83.2        | -18.4   | 79.9    | 81.9         | 102          |
| Y50G_100_100-                      | 73.3        | -31.7   | 62.7    | 70.2         | 116          |
| Y75G_100_100-                      | 62.0        | -49.7   | 43.2    | 65.8         | 139          |
| G00B_100_100-                      | 55.8        | -65.2   | 33.8    | 73.4         | 152          |
| G25B_100_100-                      | 59.3        | -50.3   | -9.0    | 51.0         | 190          |
| G50B_100_100-                      | 63.0        | -30.5   | -42.0   | 51.9         | 234          |
| G75B_100_100-                      | 45.7        | -5.7    | -44.6   | 44.9         | 262          |
| B00R_100_100-                      | 27.5        | 25.9    | -47.3   | 53.9         | 298          |
| B25R_100_100-                      | 38.3        | 52.6    | -28.5   | 59.8         | 331          |
| B50R_100_100-                      | 49.5        | 73.5    | -9.0    | 74.0         | 353          |
| B75R_100_100-                      | 48.9        | 69.3    | 12.9    | 70.4         | 10           |

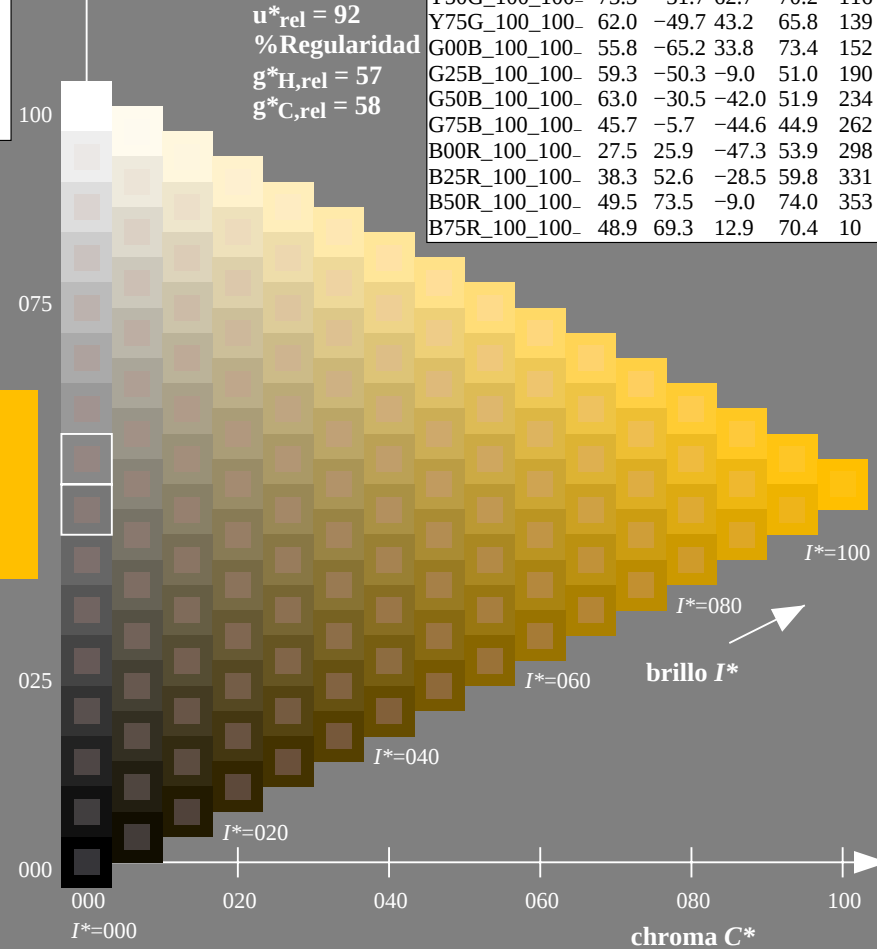
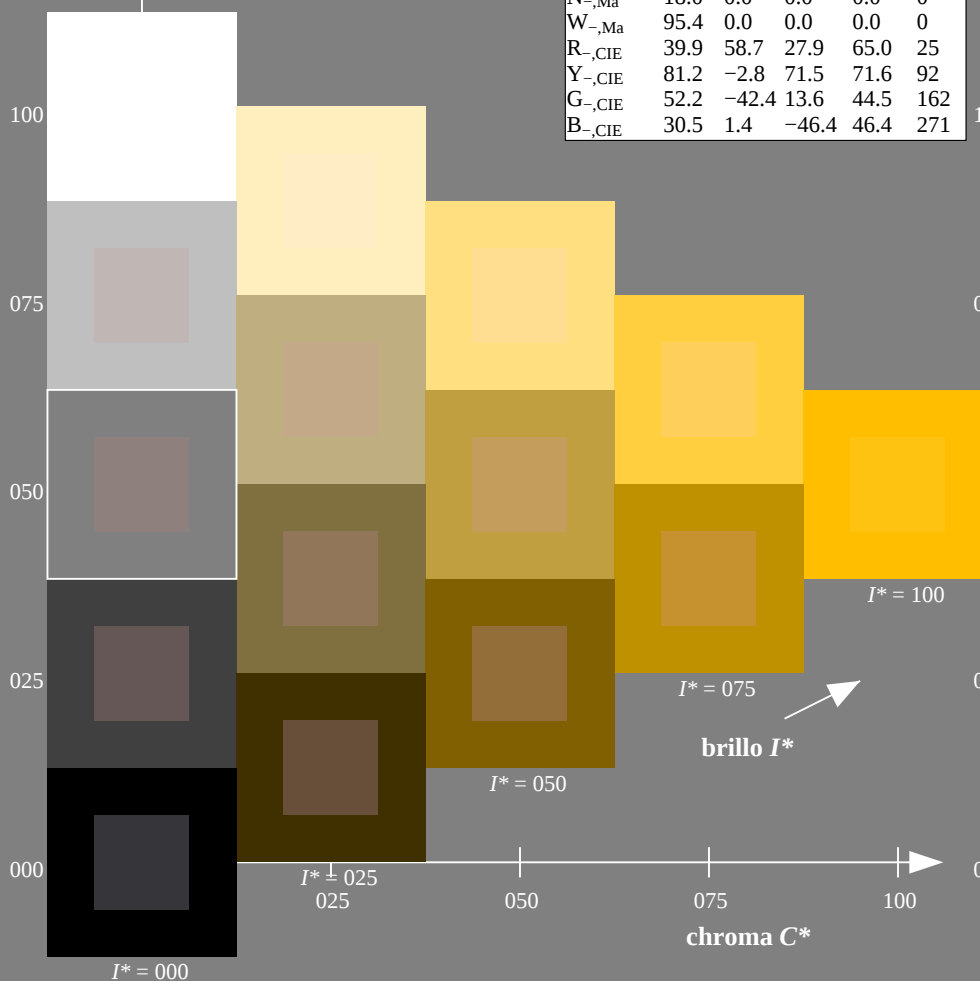


gráfico TUB-QS28; código de tono:  $H^*_ = R75Y_-$   
gráfico según a DIN 33872, 3D=1, de=1,  $cmy0^*$

entrada:  $rgb/cmyk \rightarrow rgb/cmyk$   
salida: ningún cambio

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

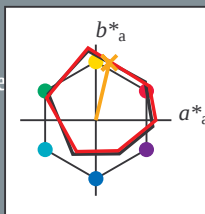
Datos del dispositivo (d) o elemental (e) color:

$HIC^*_e$

código de tono para los colores  
esta página:

$H^*_e = R75Y_e$

triángulo claridad  $T^*$



| ORS20a; datos adaptados CIELAB (a) |             |         |         |              |              |
|------------------------------------|-------------|---------|---------|--------------|--------------|
| name                               | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $R_{e,Ma}$                         | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $Y_{e,Ma}$                         | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $G_{e,Ma}$                         | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $C_{e,Ma}$                         | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $B_{e,Ma}$                         | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $M_{e,Ma}$                         | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $N_{e,Ma}$                         | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{e,Ma}$                         | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| $R_{e,CIE}$                        | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_{e,CIE}$                        | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_{e,CIE}$                        | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_{e,CIE}$                        | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Los datos de color máximo (Ma):

$LabCh^*_{e,Ma}$ : 70 17 75 77 76

$HIC^*_{e,Ma}$ : R75Y\_100\_100<sub>e</sub>

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

1.0 0.6 0.0 1.0 1.0

triángulo claridad  $T^*$

% Gama

$u^*_{rel} = 92$

% Regularidad

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

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

| ORS20a; datos adaptados CIELAB (a) |             |         |         |              |              |
|------------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_e$                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R00Y_100_100 <sub>e</sub>          | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| R25Y_100_100 <sub>e</sub>          | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| R50Y_100_100 <sub>e</sub>          | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| R75Y_100_100 <sub>e</sub>          | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| Y00G_100_100 <sub>e</sub>          | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| Y25G_100_100 <sub>e</sub>          | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| Y50G_100_100 <sub>e</sub>          | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| Y75G_100_100 <sub>e</sub>          | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| G00B_100_100 <sub>e</sub>          | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| G25B_100_100 <sub>e</sub>          | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| G50B_100_100 <sub>e</sub>          | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| G75B_100_100 <sub>e</sub>          | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| B00R_100_100 <sub>e</sub>          | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| B25R_100_100 <sub>e</sub>          | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| B50R_100_100 <sub>e</sub>          | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| B75R_100_100 <sub>e</sub>          | 41.4        | 70.4    | -9.8    | 71.1         | 352          |

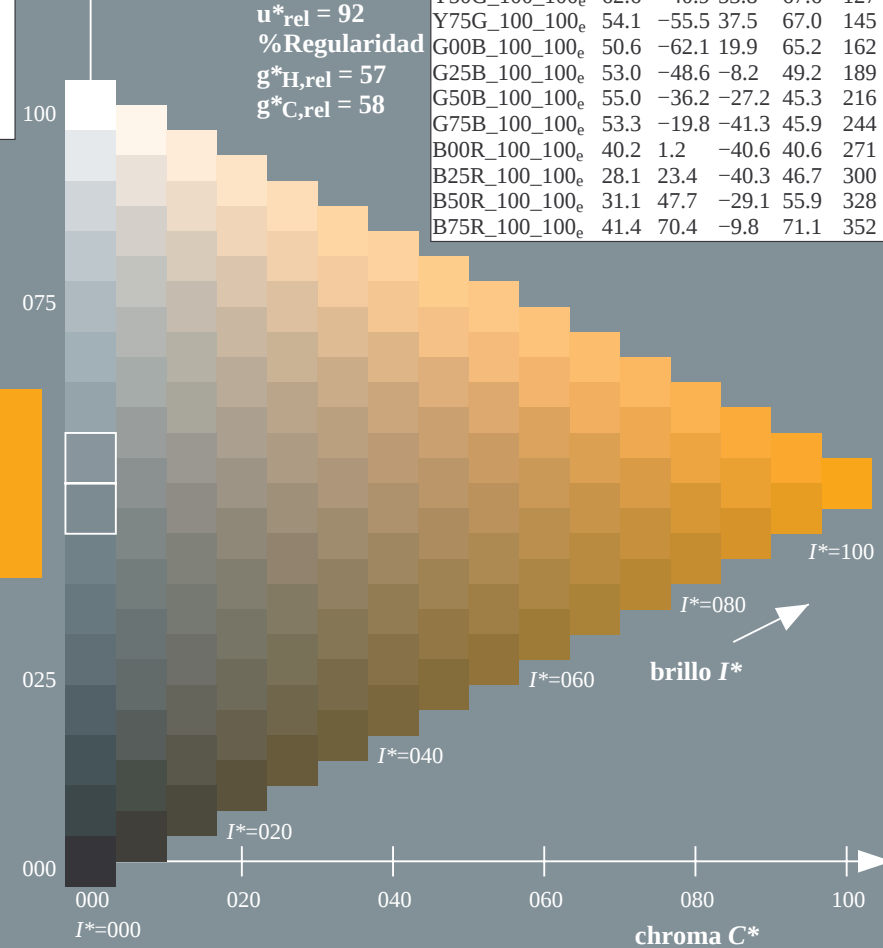
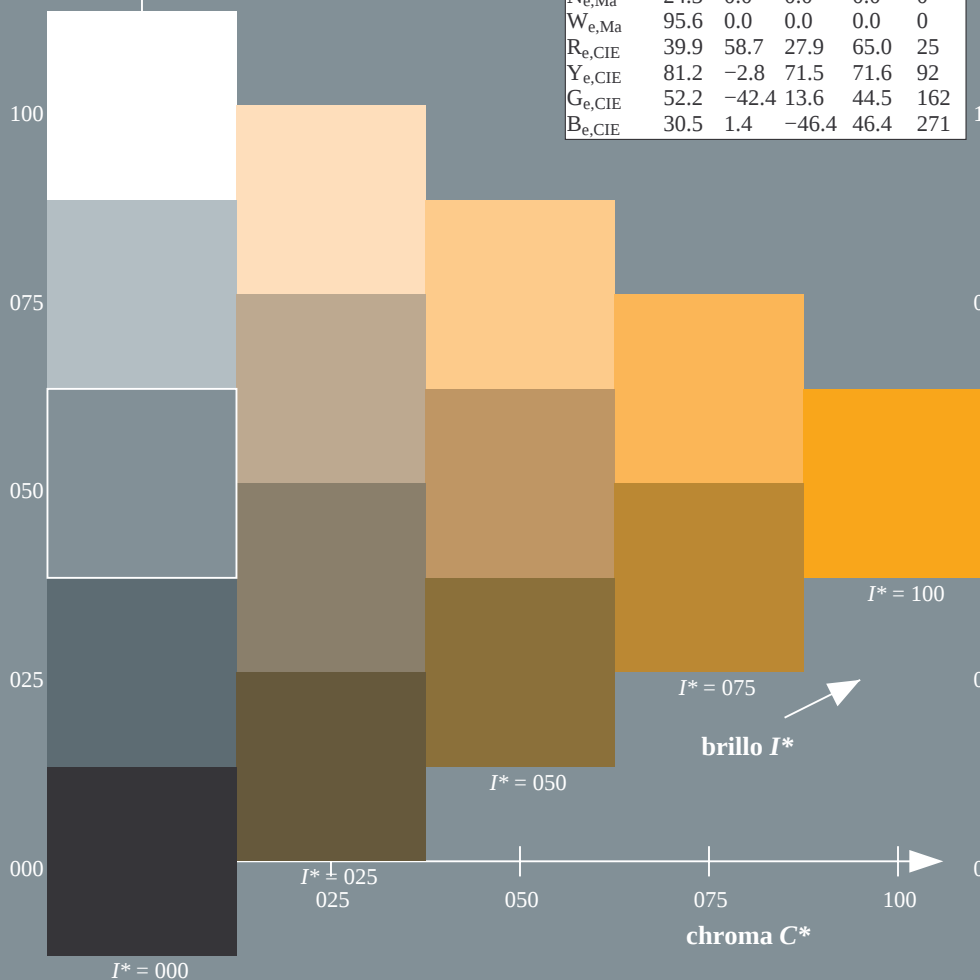


gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
gráfico según a DIN 33872, 3D=1, de=1,  $cmY0^*$

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmY0^*_{de}$

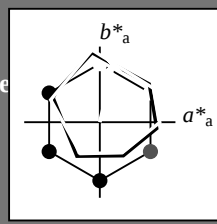
TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación  $cmY0^*$  (CMY0)

TUB material: code=rha4ta

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

Datos del dispositivo (d) o elemental (e) color:  
 $HIC^*_e$   
código de tono para les colore esta página:  
 $H^*_e = R75Y_e$   
triàngulo claridad  $T^*$



**ORS20a; datos adaptados CIELAB (a)**

| name       | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------|-------------|---------|---------|--------------|--------------|
| $R_e, Ma$  | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $Y_e, Ma$  | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $G_e, Ma$  | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $C_e, Ma$  | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $B_e, Ma$  | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $M_e, Ma$  | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $N_e, Ma$  | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_e, Ma$  | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| $R_e, CIE$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_e, CIE$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_e, CIE$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_e, CIE$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Los datos de color máximo (Ma):

$LabCh^*_e, Ma: 70 \ 17 \ 75 \ 77 \ 76$

$HIC^*_e, Ma: R75Y_{100}100_e$

$rgbic^*_e, Ma:$

1.0 0.6 0.0 1.0 1.0

triàngulo claridad  $T^*$

% Gama

$u^*_{rel} = 92$

% Regularidad

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

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

**ORS20a; datos adaptados CIELAB (a)**

| $H^*_e$           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------------|-------------|---------|---------|--------------|--------------|
| $R00Y_{100}100_e$ | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $R25Y_{100}100_e$ | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| $R50Y_{100}100_e$ | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| $R75Y_{100}100_e$ | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| $Y00G_{100}100_e$ | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $Y25G_{100}100_e$ | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| $Y50G_{100}100_e$ | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| $Y75G_{100}100_e$ | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| $G00B_{100}100_e$ | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $G25B_{100}100_e$ | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| $G50B_{100}100_e$ | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $G75B_{100}100_e$ | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| $B00R_{100}100_e$ | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $B25R_{100}100_e$ | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| $B50R_{100}100_e$ | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $B75R_{100}100_e$ | 41.4        | 70.4    | -9.8    | 71.1         | 352          |

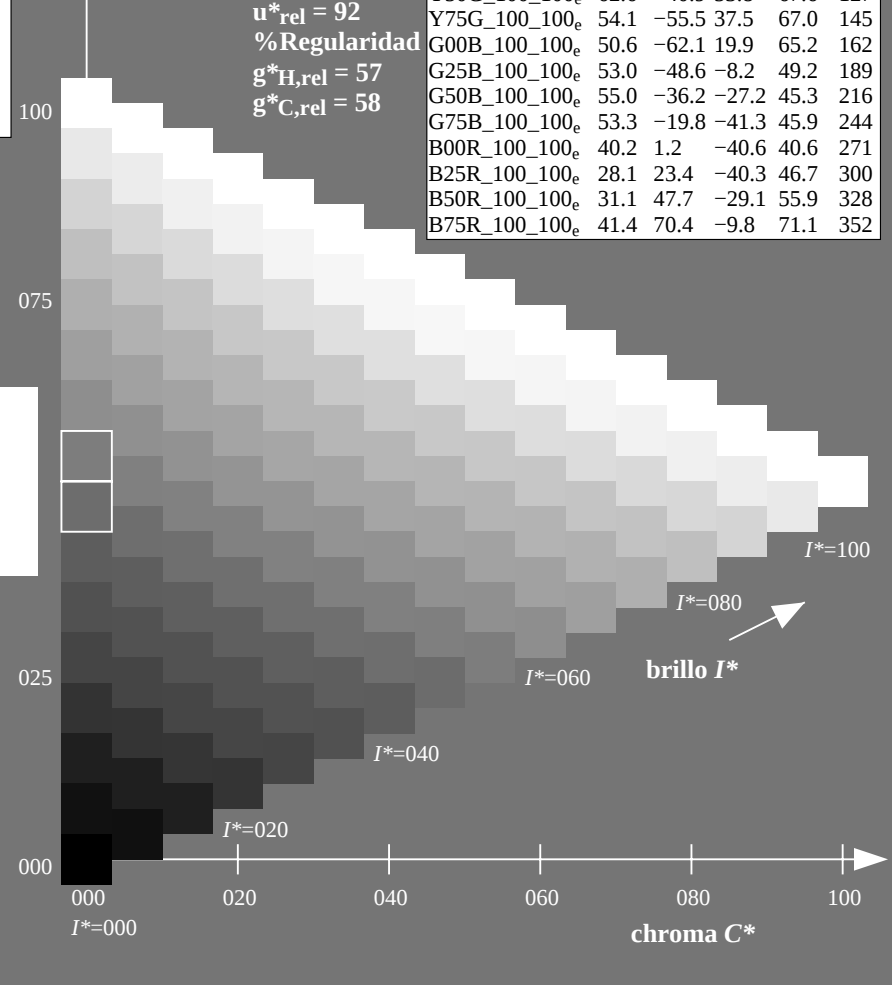
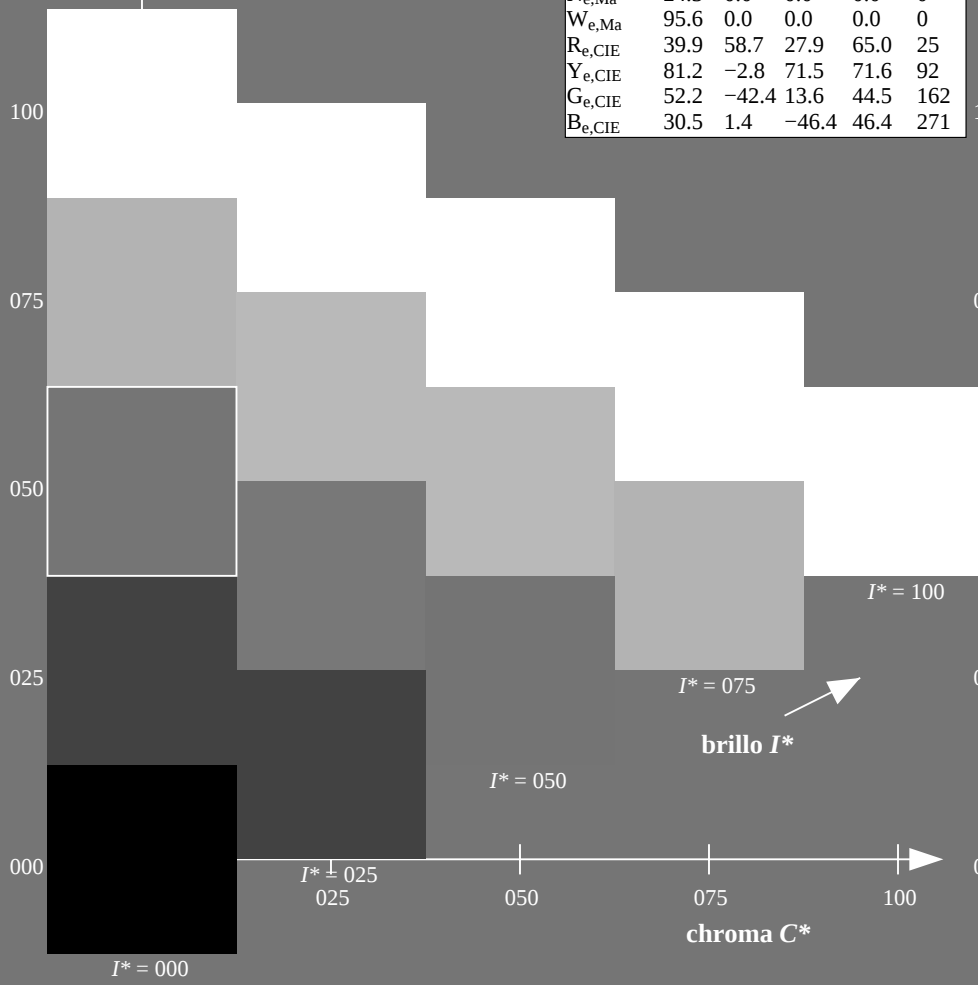


gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
gráfico según a DIN 33872, 3D=1, de=1,  $cmY0^*$

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmY0^*_{de}$

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación  $cmY0^*$  (CMY0)

TUB material: code=rha4ta

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)  
TUB material: code=rha4ta

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

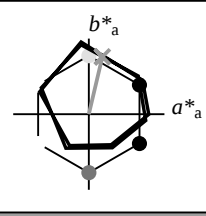
Datos del dispositivo (d) o elemental (e) color:

$HIC^*_e$

código de tono para los colores de esta página:

$H^*_e = R75Y_e$

triángulo claridad  $T^*$



**ORS20a; datos adaptados CIELAB (a)**

| name       | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------|-------------|---------|---------|--------------|--------------|
| $R_e, Ma$  | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $Y_e, Ma$  | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $G_e, Ma$  | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $C_e, Ma$  | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $B_e, Ma$  | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $M_e, Ma$  | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $N_e, Ma$  | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_e, Ma$  | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| $R_e, CIE$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_e, CIE$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_e, CIE$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_e, CIE$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Los datos de color máximo (Ma):

$LabCh^*_e, Ma$ : 70 17 75 77 76

$HIC^*_e, Ma$ : R75Y\_100\_100\_e

$rgbic^*_e, Ma$ :

1.0 0.6 0.0 1.0 1.0

triángulo claridad  $T^*$

% Gama  
 $u^*_{rel} = 92$   
% Regularidad  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 58$

**ORS20a; datos adaptados CIELAB (a)**

| $H^*_e$        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|----------------|-------------|---------|---------|--------------|--------------|
| R00Y_100_100_e | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| R25Y_100_100_e | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| R50Y_100_100_e | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| R75Y_100_100_e | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| Y00G_100_100_e | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| Y25G_100_100_e | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| Y50G_100_100_e | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| Y75G_100_100_e | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| G00B_100_100_e | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| G25B_100_100_e | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| G50B_100_100_e | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| G75B_100_100_e | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| B00R_100_100_e | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| B25R_100_100_e | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| B50R_100_100_e | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| B75R_100_100_e | 41.4        | 70.4    | -9.8    | 71.1         | 352          |

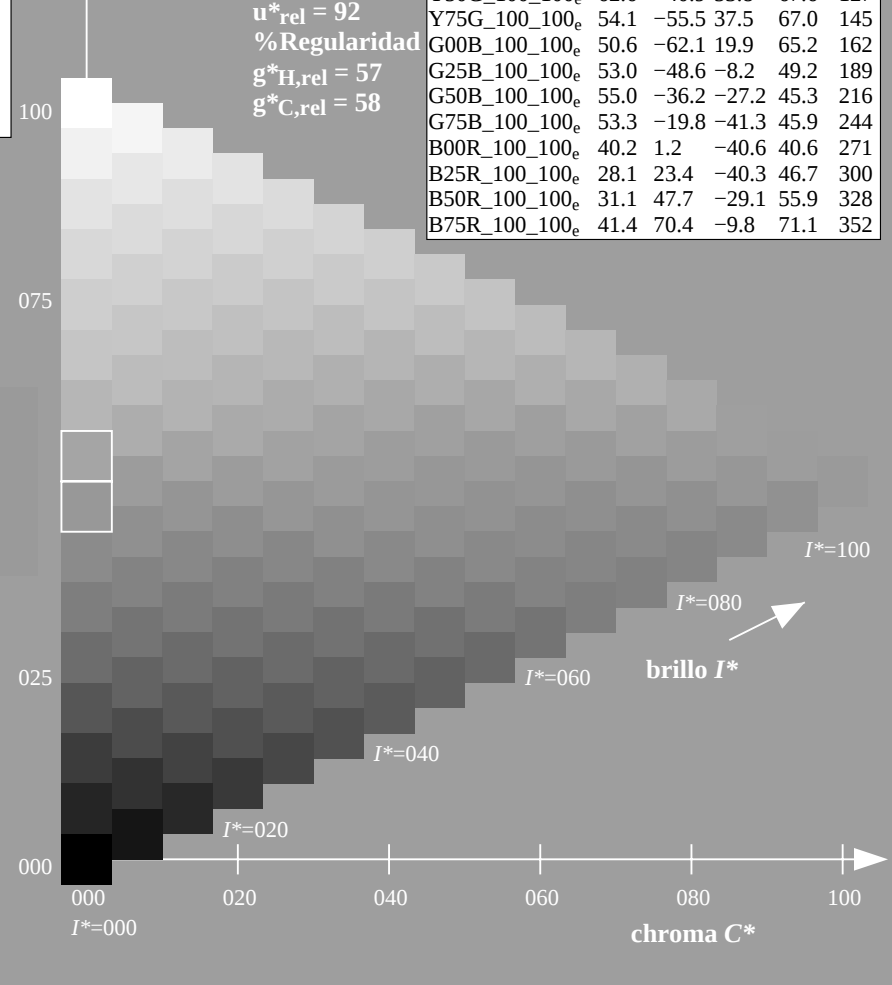
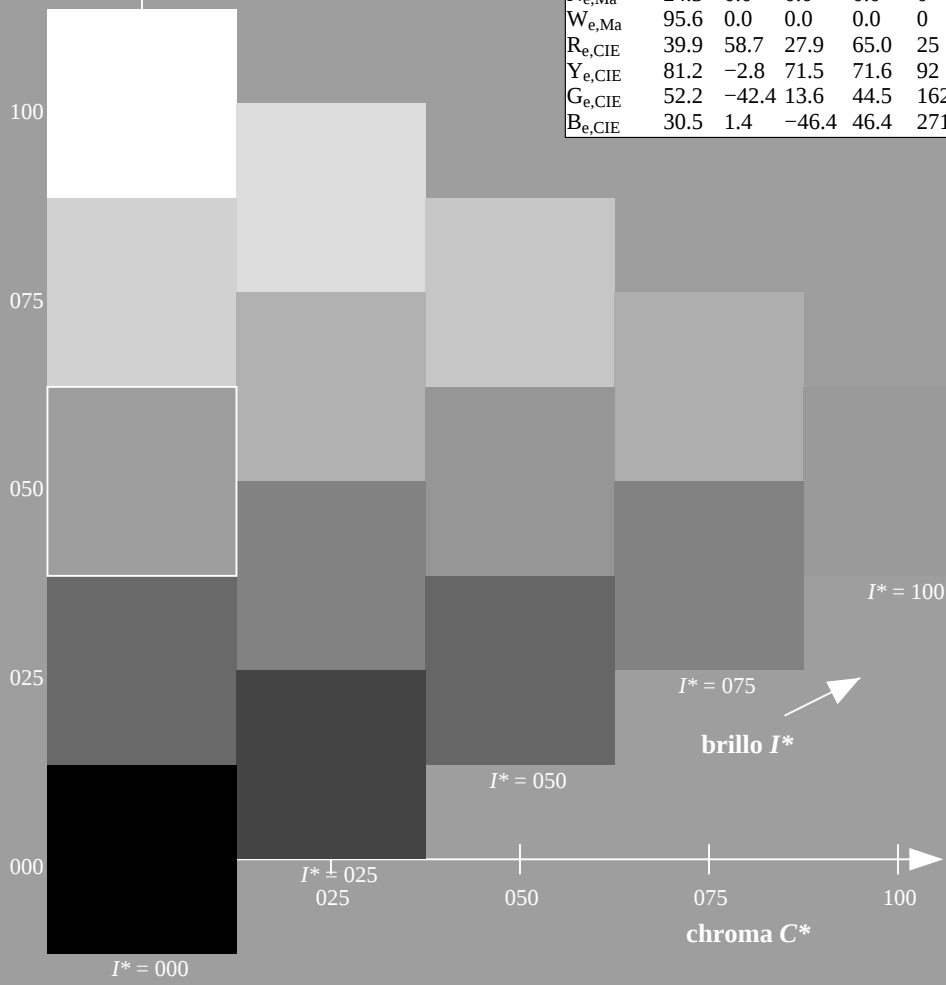


gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
gráfico según a DIN 33872, 3D=1, de=1,  $cmy0^*$

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS TUB material: code=rha4ta  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)

Entrada i salida: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

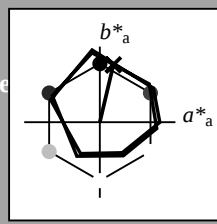
Datos del dispositivo (d) o elemental (e) color:

$HIC^*_e$

código de tono para les colore esta página:

$H^*_e = R75Y_e$

triángulo claridad  $T^*$



**ORS20a; datos adaptados CIELAB (a)**

| name        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------------|-------------|---------|---------|--------------|--------------|
| $R_{e,Ma}$  | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $Y_{e,Ma}$  | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $G_{e,Ma}$  | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $C_{e,Ma}$  | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $B_{e,Ma}$  | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $M_{e,Ma}$  | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $N_{e,Ma}$  | 24.3        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{e,Ma}$  | 95.6        | 0.0     | 0.0     | 0.0          | 0            |
| $R_{e,CIE}$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_{e,CIE}$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_{e,CIE}$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_{e,CIE}$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Los datos de color máximo (Ma):

$LabCh^*_{e,Ma}$ : 70 17 75 77 76

$HIC^*_{e,Ma}$ : R75Y\_100\_100\_e

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

1.0 0.6 0.0 1.0 1.0

triángulo claridad  $T^*$

% Gama

$u^*_{rel} = 92$

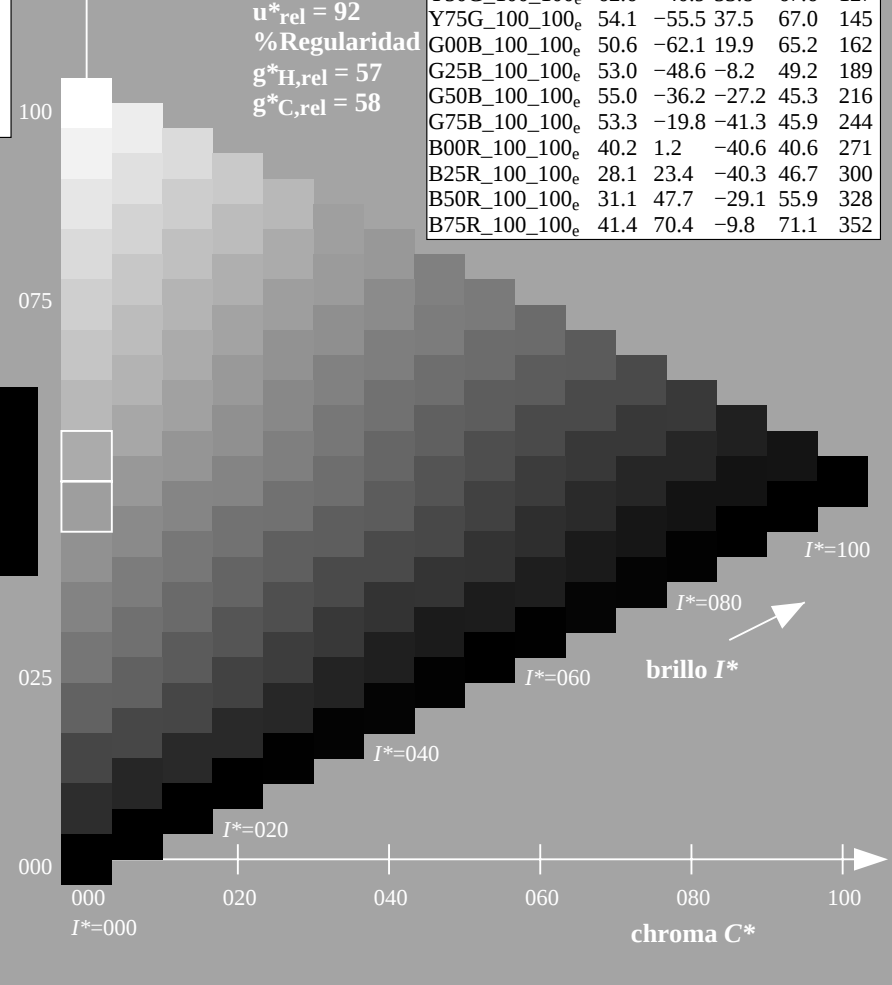
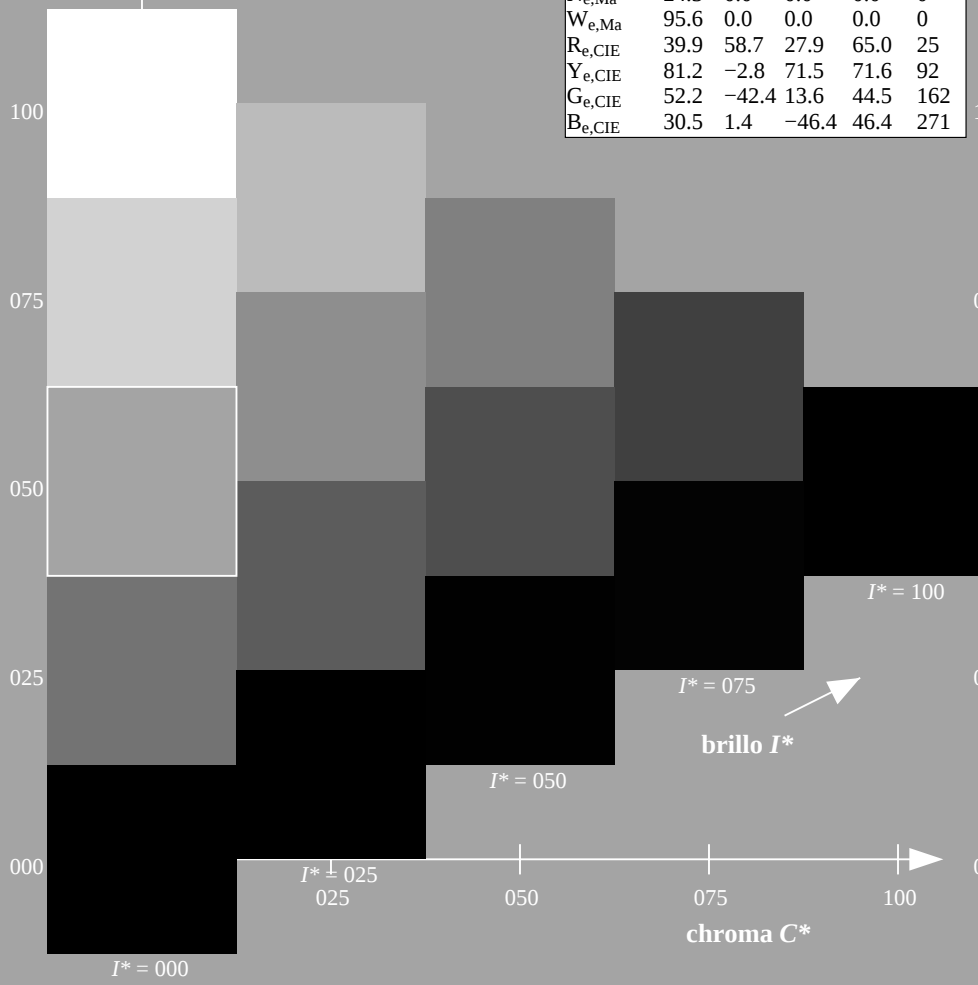
% Regularidad

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

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

**ORS20a; datos adaptados CIELAB (a)**

| $H^*_e$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y_{100_100_e}$ | 45.6        | 72.2    | 34.4    | 80.0         | 25           |
| $R25Y_{100_100_e}$ | 50.5        | 59.2    | 51.6    | 78.6         | 41           |
| $R50Y_{100_100_e}$ | 60.2        | 38.2    | 63.4    | 74.1         | 58           |
| $R75Y_{100_100_e}$ | 70.9        | 17.9    | 75.9    | 77.9         | 76           |
| $Y00G_{100_100_e}$ | 83.6        | -3.6    | 90.4    | 90.4         | 92           |
| $Y25G_{100_100_e}$ | 74.5        | -25.0   | 74.3    | 78.4         | 108          |
| $Y50G_{100_100_e}$ | 62.6        | -40.9   | 53.8    | 67.6         | 127          |
| $Y75G_{100_100_e}$ | 54.1        | -55.5   | 37.5    | 67.0         | 145          |
| $G00B_{100_100_e}$ | 50.6        | -62.1   | 19.9    | 65.2         | 162          |
| $G25B_{100_100_e}$ | 53.0        | -48.6   | -8.2    | 49.2         | 189          |
| $G50B_{100_100_e}$ | 55.0        | -36.2   | -27.2   | 45.3         | 216          |
| $G75B_{100_100_e}$ | 53.3        | -19.8   | -41.3   | 45.9         | 244          |
| $B00R_{100_100_e}$ | 40.2        | 1.2     | -40.6   | 40.6         | 271          |
| $B25R_{100_100_e}$ | 28.1        | 23.4    | -40.3   | 46.7         | 300          |
| $B50R_{100_100_e}$ | 31.1        | 47.7    | -29.1   | 55.9         | 328          |
| $B75R_{100_100_e}$ | 41.4        | 70.4    | -9.8    | 71.1         | 352          |



2-113431-L0 QS280-73

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
gráfico según a DIN 33872, 3D=1, de=1,  $cmy0^*$

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

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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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$

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

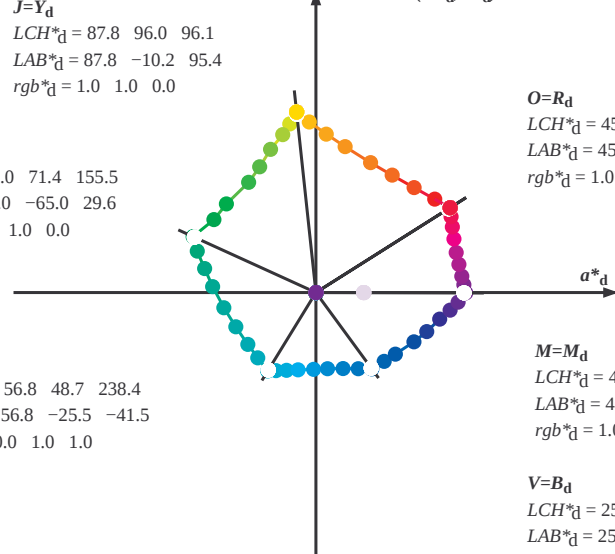
$L=G_d$

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

$C=C_d$

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

$b^*_d$  CIELAB ( $a^*_d, b^*_d$ )



$O=R_d$

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

$M=M_d$

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

$V=B_d$

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

$b^*_e$  CIELAB ( $a^*_e, b^*_e$ )

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

$G_e$

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

$C_e$

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

$B_e$

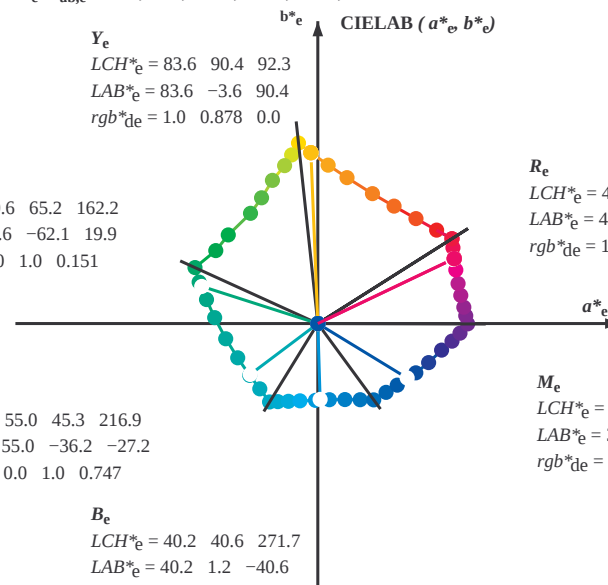
$LCH^*_e = 40.2 \ 40.6 \ 271.7$   
 $LAB^*_e = 40.2 \ 1.2 \ -40.6$   
 $rgb^*_{de} = 0.0 \ 0.458 \ 1.0$

$R_e$

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

$M_e$

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



$b^*_s$  CIELAB ( $a^*_s, b^*_s$ )

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

$G_s$

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

$R_s$

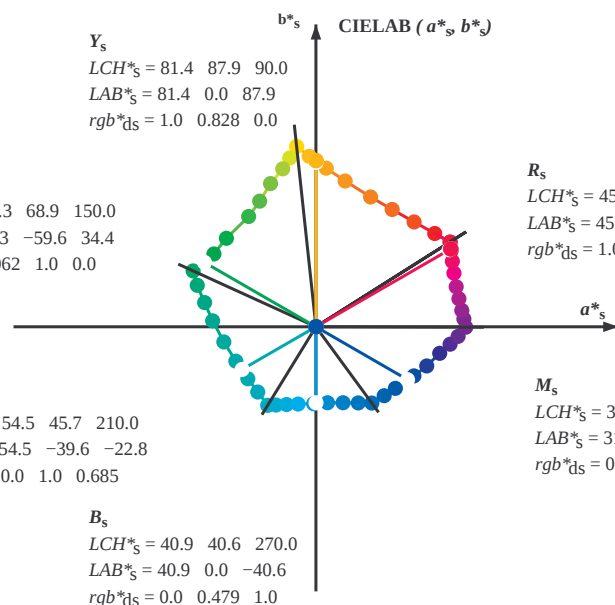
$LCH^*_s = 45.5 \ 82.4 \ 30.0$   
 $LAB^*_s = 45.5 \ 71.3 \ 41.2$   
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.096$

$M_s$

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

$B_s$

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



( $a^*_d, b^*_d$ ), ( $a^*_s, b^*_s$ ), ( $a^*_e, b^*_e$ )

$rgb^*_d, LCH^*_d, LAB^*_d$

$h_{ab,i}, rgb^*_{di}$

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

$h_{ab,s}$

$s: h_{ab,i} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0 (i=0,6)$

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

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

$h_{ab,e}$

$e: h_{ab,i} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5 (i=0,6)$

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

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

$h_{ab,i}, h_{ab,d}$

$rgb^*_{de}$

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QS280-73

$LAB^*Ia0, YN=0\%, XYZn=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB^*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0$

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos;  $rgb-LabCh^*$ mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$

salida: 3D-linealización a  $cmy0^*_{de}$

salida: Offset standard print; separation cmy0\*, D65, página 7/33

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vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)  
TUB material: code=rh4ta

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   | 0.096 | 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   | 0.021 | 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   | 0.183 | 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   | 0.288 | 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   | 0.398 | 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   | 0.494 | 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   | 0.592 | 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   | 0.703 | 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   | 0.879 | 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  |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | 50.2 | -64.4 | 27.4  | 70.0 | 157 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 249.3      | 225.0      | 230.6      | 0.0             | 0.75                       | 1.0               | 50.4                        | -15.5             | -41.1                       | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | 30.2  | -40.0 | 50.2 | 307 |
| 352.5      | 315.0      | 314.3      | 0.75            | 0.0                        | 1.0               | 41.8                        | 71.0              | -9.2                        | 71.6              | 352.5             | 0.75  | 0.0   | 1.0   | 41.8 | 71.0  | -9.2  | 71.6 | 352 | 0.13  | 0.0   | 1.0   | 27.9 | 36.3  | -36.2 | 51.3 | 315 |
| 356.1      | 322.5      | 321.4      | 0.875           | 0.0                        | 1.0               | 44.2                        | 75.2              | -5.0                        | 75.3              | 356.1             | 0.867 | 0.0   | 1.0   | 44.1 | 74.9  | -5.3  | 75.1 | 355 | 0.247 | 0.0   | 1.0   | 28.9 | 41.9  | -32.6 | 53.1 | 322 |
| 359.8      | 330.0      | 328.6      | 1.0             | 0.0                        | 1.0               | 46.1                        | 79.3              | -0.2                        | 79.3              | 359.8             | 1.0   | 0.0   | 1.0   | 46.1 | 79.3  | -0.1  | 79.3 | 359 | 0.337 | 0.0   | 1.0   | 31.6 | 49.0  | -28.2 | 56.6 | 330 |
| 363.0      | 337.5      | 335.7      | 1.0             | 0.0                        | 0.875             | 45.9                        | 78.2              | 4.1                         | 78.3              | 363.0             | 1.0   | 0.0   | 0.883 | 46.0 | 78.3  | 3.9   | 78.4 | 362 | 0.438 | 0.0   | 1.0   | 34.2 | 55.4  | -23.4 | 60.1 | 337 |
| 366.4      | 345.0      | 342.8      | 1.0             | 0.0                        | 0.75              | 45.9                        | 77.1              | 8.6                         | 77.6              | 366.4             | 1.0   | 0.0   | 0.75  | 46.0 | 77.2  | 8.7   | 77.7 | 366 | 0.576 | 0.0   | 1.0   | 37.1 | 62.9  | -16.7 | 65.1 | 345 |
| 371.1      | 352.5      | 349.9      | 1.0             | 0.0                        | 0.625             | 46.0                        | 75.6              | 14.8                        | 77.0              | 371.1             | 1.0   | 0.0   | 0.633 |      |       |       |      |     |       |       |       |      |       |       |      |     |

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  | 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  | 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  | 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  | 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  | 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  | 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  | 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  | 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  | 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  | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 352.5 | 0.012  | 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 | 356.1 | 0.0231 | 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 | 359.8 | 0.0322 | 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 | 363.0 | 0.0408 | 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 | 366.4 | 0.0539 | 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 | 371.1 | 0.0667 | 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 | 375.9 | 0.0736 | 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 | 381.2 | 0.081  | 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 | 385.6 | 0.091  | 0.0   | 1.0               | 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 | 389.3 | 0.0959 | 0.0   | 1.0               | 48.5 | 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 | 392.3 | 1.0    | 0.0   | 0.255             | 45.7 | 72.2  | 34.4              | 80.0 | 385  |     |                                        |  |  |

2-113831-L0

QS280-73

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

salida: Offset standard print; separation cmy0\*, D65, página 9/33

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos;  $rgb-LabCh^*$ mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)  
TUB material: code=rha4ta

vea archivos semejantes: <http://130.149.60.45/~farbmeterik/QS28/QS28.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmeterik>

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  $RYGCBM_s$ :  $h_{a,gs} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

| 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 $RYGCBM_e$ : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$ |            |            |                  |                            |                   |                             |                   |                   |                              |                   |                   |                   |       |       |      |      |      |      |    |       |     |       |       |     |       |       |       |      |      |      |      |       |     |       |       |     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|----------------------------|-------------------|-----------------------------|-------------------|-------------------|------------------------------|-------------------|-------------------|-------------------|-------|-------|------|------|------|------|----|-------|-----|-------|-------|-----|-------|-------|-------|------|------|------|------|-------|-----|-------|-------|-----|--|--|--|--|
| $h_{ab,d}$                                                                                                                                                                                                        | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{d361Mi}$ (x=LabCh) | $rgb^*_{ds361Mi}$ | $LAB^*_{ds361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{ds361Mi}$ | $rgb^*_{de361Mi}$ |       |       |      |      |      |      |    |       |     |       |       |     |       |       |       |      |      |      |      |       |     |       |       |     |  |  |  |  |
| 32                                                                                                                                                                                                                | 30         | 25         | 1.0              | 0.0                        | 0.0               | 45.4                        | 70.9              | 44.8              | 83.9                         | 32                | $R_d$             | 1.0               | 0.0   | 0.096 | 45.5 | 71.4 | 41.2 | 82.4 | 30 | $R_s$ | 1.0 | 0.0   | 0.0   | 1.0 | 0.0   | 0.255 | 45.7  | 72.2 | 34.4 | 80.0 | 25   | $R_e$ | 1.0 | 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   | 0.055 | 45.5 | 71.2 | 42.8 | 83.1 | 31 |       | 1.0 | 0.0   | 0.017 | 0.0 | 1.0   | 0.0   | 0.218 | 45.6 | 72.0 | 36.1 | 80.6 | 26    |     | 1.0   | 0.017 | 0.0 |  |  |  |  |
| 33                                                                                                                                                                                                                | 32         | 27         | 1.0              | 0.033                      | 0.0               | 46.3                        | 68.8              | 46.1              | 82.8                         | 33                |                   | 1.0               | 0.0   | 0.013 | 45.5 | 71.0 | 44.4 | 83.7 | 32 |       | 1.0 | 0.0   | 0.033 | 0.0 | 1.0   | 0.0   | 0.18  | 45.6 | 71.8 | 37.7 | 81.1 | 27    |     | 1.0   | 0.033 | 0.0 |  |  |  |  |
| 34                                                                                                                                                                                                                | 33         | 28         | 1.0              | 0.05                       | 0.0               | 46.8                        | 67.7              | 46.8              | 82.3                         | 34                |                   | 1.0               | 0.015 | 0.0   | 45.9 | 70.0 | 45.5 | 83.5 | 33 |       | 1.0 | 0.0   | 0.05  | 0.0 | 1.0   | 0.0   | 0.142 | 45.6 | 71.6 | 39.4 | 81.7 | 28    |     | 1.0   | 0.05  | 0.0 |  |  |  |  |
| 35                                                                                                                                                                                                                | 34         | 29         | 1.0              | 0.066                      | 0.0               | 47.3                        | 66.6              | 47.4              | 81.8                         | 35                |                   | 1.0               | 0.036 | 0.0   | 46.5 | 68.6 | 46.3 | 82.8 | 34 |       | 1.0 | 0.0   | 0.067 | 0.0 | 1.0   | 0.0   | 0.099 | 45.5 | 71.4 | 41.1 | 82.4 | 29    |     | 1.0   | 0.067 | 0.0 |  |  |  |  |
| 36                                                                                                                                                                                                                | 35         | 31         | 1.0              | 0.083                      | 0.0               | 47.7                        | 65.5              | 48.0              | 81.2                         | 36                |                   | 1.0               | 0.057 | 0.0   | 47.1 | 67.3 | 47.1 | 82.1 | 35 |       | 1.0 | 0.0   | 0.083 | 0.0 | 1.0   | 0.0   | 0.053 | 45.5 | 71.2 | 42.9 | 83.1 | 31    |     | 1.0   | 0.083 | 0.0 |  |  |  |  |
| 36                                                                                                                                                                                                                | 36         | 32         | 1.0              | 0.1                        | 0.0               | 48.2                        | 64.4              | 48.5              | 80.7                         | 36                |                   | 1.0               | 0.079 | 0.0   | 47.6 | 65.9 | 47.9 | 81.4 | 36 |       | 1.0 | 0.1   | 0.1   | 0.0 | 1.0   | 0.0   | 0.006 | 45.5 | 71.0 | 44.6 | 83.8 | 32    |     | 1.0   | 0.1   | 0.0 |  |  |  |  |
| 37                                                                                                                                                                                                                | 37         | 33         | 1.0              | 0.116                      | 0.0               | 48.6                        | 63.3              | 49.1              | 80.2                         | 37                |                   | 1.0               | 0.1   | 0.0   | 48.2 | 64.5 | 48.6 | 80.7 | 37 |       | 1.0 | 0.117 | 0.0   | 1.0 | 0.021 | 0.0   | 46.0  | 69.6 | 45.7 | 83.3 | 33   |       | 1.0 | 0.117 | 0.0   |     |  |  |  |  |
| 38                                                                                                                                                                                                                | 38         | 34         | 1.0              | 0.133                      | 0.0               | 49.2                        | 62.1              | 49.8              | 79.6                         | 38                |                   | 1.0               | 0.121 | 0.0   | 48.8 | 63.1 | 49.3 | 80.1 | 38 |       | 1.0 | 0.133 | 0.0   | 1.0 | 0.044 | 0.0   | 46.7  | 68.1 | 46.6 | 82.5 | 34   |       | 1.0 | 0.133 | 0.0   |     |  |  |  |  |
| 39                                                                                                                                                                                                                | 39         | 35         | 1.0              | 0.15                       | 0.0               | 49.8                        | 60.7              | 50.7              | 79.1                         | 39                |                   | 1.0               | 0.137 | 0.0   | 49.4 | 61.8 | 50.1 | 79.6 | 39 |       | 1.0 | 0.15  | 0.0   | 1.0 | 0.068 | 0.0   | 47.4  | 66.6 | 47.5 | 81.8 | 35   |       | 1.0 | 0.15  | 0.0   |     |  |  |  |  |
| 41                                                                                                                                                                                                                | 40         | 36         | 1.0              | 0.166                      | 0.0               | 50.5                        | 59.2              | 51.6              | 78.6                         | 41                |                   | 1.0               | 0.151 | 0.0   | 49.9 | 60.6 | 50.9 | 79.1 | 40 |       | 1.0 | 0.167 | 0.0   | 1.0 | 0.092 | 0.0   | 48.0  | 65.0 | 48.3 | 81.0 | 36   |       | 1.0 | 0.167 | 0.0   |     |  |  |  |  |
| 42                                                                                                                                                                                                                | 41         | 37         | 1.0              | 0.183                      | 0.0               | 51.1                        | 57.8              | 52.5              | 78.1                         | 42                |                   | 1.0               | 0.166 | 0.0   | 50.5 | 59.4 | 51.6 | 78.7 | 41 |       | 1.0 | 0.183 | 0.0   | 1.0 | 0.116 | 0.0   | 48.7  | 63.5 | 49.1 | 80.2 | 37   |       | 1.0 | 0.183 | 0.0   |     |  |  |  |  |
| 43                                                                                                                                                                                                                | 42         | 38         | 1.0              | 0.2                        | 0.0               | 51.7                        | 56.3              | 53.3              | 77.5                         | 43                |                   | 1.0               | 0.18  | 0.0   | 51.0 | 58.1 | 52.3 | 78.2 | 42 |       | 1.0 | 0.2   | 0.0   | 1.0 | 0.135 | 0.0   | 49.3  | 62.0 | 49.9 | 79.6 | 38   |       | 1.0 | 0.2   | 0.0   |     |  |  |  |  |
| 44                                                                                                                                                                                                                | 43         | 39         | 1.0              | 0.216                      | 0.0               | 52.4                        | 54.9              | 54.0              | 77.0                         | 44                |                   | 1.0               | 0.194 | 0.0   | 51.6 | 56.9 | 53.0 | 77.8 | 43 |       | 1.0 | 0.217 | 0.0   | 1.0 | 0.151 | 0.0   | 49.9  | 60.7 | 50.8 | 79.1 | 39   |       | 1.0 | 0.217 | 0.0   |     |  |  |  |  |
| 45                                                                                                                                                                                                                | 44         | 41         | 1.0              | 0.233                      | 0.0               | 53.0                        | 53.4              | 54.8              | 76.5                         | 45                |                   | 1.0               | 0.209 | 0.0   | 52.1 | 55.6 | 53.7 | 77.3 | 44 |       | 1.0 | 0.233 | 0.0   | 1.0 | 0.167 | 0.0   | 50.5  | 59.3 | 51.7 | 78.6 | 41   |       | 1.0 | 0.233 | 0.0   |     |  |  |  |  |
| 46                                                                                                                                                                                                                | 45         | 42         | 1.0              | 0.25                       | 0.0               | 53.6                        | 51.9              | 55.5              | 76.0                         | 46                |                   | 1.0               | 0.223 | 0.0   | 52.7 | 54.4 | 54.4 | 76.9 | 45 |       | 1.0 | 0.25  | 0.0   | 1.0 | 0.183 | 0.0   | 51.1  | 57.9 | 52.5 | 78.1 | 42   |       | 1.0 | 0.25  | 0.0   |     |  |  |  |  |
| 48                                                                                                                                                                                                                | 46         | 43         | 1.0              | 0.266                      | 0.0               | 54.4                        | 50.4              | 56.5              | 75.7                         | 48                |                   | 1.0               | 0.237 | 0.0   | 53.2 | 53.1 | 55.0 | 76.4 | 46 |       | 1.0 | 0.267 | 0.0   | 1.0 | 0.198 | 0.0   | 51.7  | 56.5 | 53.2 | 77.6 | 43   |       | 1.0 | 0.267 | 0.0   |     |  |  |  |  |
| 49                                                                                                                                                                                                                | 47         | 44         | 1.0              | 0.283                      | 0.0               | 55.1                        | 48.9              | 57.4              | 75.4                         | 49                |                   | 1.0               | 0.251 | 0.0   | 53.7 | 51.8 | 55.6 | 76.0 | 47 |       | 1.0 | 0.283 | 0.0   | 1.0 | 0.214 | 0.0   | 52.3  | 55.1 | 54.0 | 77.1 | 44   |       | 1.0 | 0.283 | 0.0   |     |  |  |  |  |
| 50                                                                                                                                                                                                                | 48         | 45         | 1.0              | 0.3                        | 0.0               | 55.8                        | 47.4              | 58.4              | 75.2                         | 50                |                   | 1.0               | 0.264 | 0.0   | 54.3 | 50.7 | 56.3 | 75.8 | 48 |       | 1.0 | 0.3   | 0.0   | 1.0 | 0.23  | 0.0   | 52.9  | 53.7 | 54.7 | 76.6 | 45   |       | 1.0 | 0.3   | 0.0   |     |  |  |  |  |
| 52                                                                                                                                                                                                                | 49         | 46         | 1.0              | 0.316                      | 0.0               | 56.6                        | 45.8              | 59.2              | 74.9                         | 52                |                   | 1.0               | 0.276 | 0.0   | 54.8 | 49.6 | 57.1 | 75.6 | 49 |       | 1.0 | 0.317 | 0.0   | 1.0 | 0.246 | 0.0   | 53.5  | 52.3 | 55.4 | 76.1 | 46   |       | 1.0 | 0.317 | 0.0   |     |  |  |  |  |
| 53                                                                                                                                                                                                                | 50         | 47         | 1.0              | 0.333                      | 0.0               | 57.3                        | 44.2              | 60.1              | 74.6                         | 53                |                   | 1.0               | 0.288 | 0.0   | 55.4 | 48.5 | 57.8 | 75.4 | 50 |       | 1.0 | 0.333 | 0.0   | 1.0 | 0.261 | 0.0   | 54.2  | 51.0 | 56.2 | 75.9 | 47   |       | 1.0 | 0.333 | 0.0   |     |  |  |  |  |
| 54                                                                                                                                                                                                                | 51         | 48         | 1.0              | 0.35                       | 0.0               | 58.0                        | 42.7              | 60.9              | 74.4                         | 54                |                   | 1.0               | 0.301 | 0.0   | 55.9 | 47.3 | 58.5 | 75.2 | 51 |       | 1.0 | 0.35  | 0.0   | 1.0 | 0.274 | 0.0   | 54.8  | 49.8 | 57.0 | 75.6 | 48   |       | 1.0 | 0.35  | 0.0   |     |  |  |  |  |
| 56                                                                                                                                                                                                                | 52         | 49         | 1.0              | 0.366                      | 0.0               | 58.8                        | 41.1              | 61.7              | 74.1                         | 56                |                   | 1.0               | 0.313 | 0.0   | 56.5 | 46.2 | 59.1 | 75.0 | 52 |       | 1.0 | 0.367 | 0.0   | 1.0 | 0.288 | 0.0   | 55.4  | 48.5 | 57.8 | 75.4 | 49   |       | 1.0 | 0.367 | 0.0   |     |  |  |  |  |
| 57                                                                                                                                                                                                                | 53         | 51         | 1.0              | 0.383                      | 0.0               | 59.5                        | 39.5              | 62.5              | 74.0                         | 57                |                   | 1.0               | 0.326 | 0.0   | 57.0 | 45.0 | 59.8 | 74.8 | 53 |       | 1.0 | 0.383 | 0.0   | 1.0 | 0.302 | 0.0   | 56.0  | 47.2 | 58.5 | 75.2 | 51   |       | 1.0 | 0.383 | 0.0   |     |  |  |  |  |
| 59                                                                                                                                                                                                                | 54         | 52         | 1.0              | 0.4                        | 0.0               | 60.3                        | 38.1              | 63.5              | 74.1                         | 59                |                   | 1.0               | 0.338 | 0.0   | 57.6 | 43.9 | 60.4 | 74.6 | 54 |       | 1.0 | 0.4   | 0.0   | 1.0 | 0.316 | 0.0   | 56.6  | 45.9 | 59.3 | 75.0 | 52   |       | 1.0 | 0.4   | 0.0   |     |  |  |  |  |
| 60                                                                                                                                                                                                                | 55         | 53         | 1.0              | 0.416                      | 0.0               | 61.0                        | 36.6              | 64.5              | 74.1                         | 60                |                   | 1.0               | 0.35  | 0.0   | 58.1 | 42.7 | 61.0 | 74.4 | 55 |       | 1.0 | 0.417 | 0.0   | 1.0 | 0.33  | 0.0   | 57.2  | 44.6 | 60.0 | 74.8 | 53   |       | 1.0 | 0.417 | 0.0   |     |  |  |  |  |
| 61                                                                                                                                                                                                                | 56         | 54         | 1.0              | 0.433                      | 0.0               | 61.8                        | 35.1              | 65.4              | 74.2                         | 61                |                   | 1.0               | 0.363 | 0.0   | 58.6 | 41.5 | 61.5 | 74.2 | 56 |       | 1.0 | 0.433 | 0.0   | 1.0 | 0.343 | 0.0   | 57.8  | 43.3 | 60.6 | 74.5 | 54   |       | 1.0 | 0.433 | 0.0   |     |  |  |  |  |
| 63                                                                                                                                                                                                                | 57         | 55         | 1.0              | 0.45                       | 0.0               | 62.6                        | 33.6              | 66.2              | 74.3                         | 63                |                   | 1.0               | 0.375 | 0.0   | 59.2 | 40.3 | 62.1 | 74.0 | 57 |       | 1.0 | 0.45  | 0.0   | 1.0 | 0.357 | 0.0   | 58.4  | 42.0 | 61.3 | 74.3 | 55   |       | 1.0 | 0.45  | 0.0   |     |  |  |  |  |
| 64                                                                                                                                                                                                                | 58         | 56         | 1.0              | 0.466                      | 0.0               | 63.3                        | 32.0              | 67.1              | 74.4                         | 64                |                   | 1.0               | 0.387 | 0.0   | 59.8 | 39.3 | 62.8 | 74.1 | 58 |       | 1.0 | 0.467 | 0.0   | 1.0 | 0.371 | 0.0   | 59.0  | 40.7 | 61.9 | 74.1 | 56   |       | 1.0 | 0.467 | 0.0   |     |  |  |  |  |
| 65                                                                                                                                                                                                                | 59         | 57         | 1.0              | 0.483                      | 0.0               | 64.1                        | 30.5              | 67.9              | 74.4                         | 65                |                   | 1.0               | 0.4   | 0.0   | 60.3 | 38.2 | 63.5 | 74.1 | 59 |       | 1.0 | 0.483 | 0.0   | 1.0 | 0.385 | 0.0   | 59.6  | 39.5 | 62.7 | 74.1 | 57   |       | 1.0 | 0.483 | 0.0   |     |  |  |  |  |
| 67                                                                                                                                                                                                                | 60         | 58         | 1.0              | 0.5                        | 0.0               | 64.9                        | 28.9              | 68.6              | 74.5                         | 67                |                   | 1.0               | 0.412 | 0.0   | 60.9 | 37.1 | 64.2 | 74.2 | 60 |       | 1.0 | 0.5   | 0.0   | 1.0 | 0.398 | 0.0   | 60.3  | 38.3 | 63.5 | 74.1 | 58   |       | 1.0 | 0.5   | 0.0   |     |  |  |  |  |
| 68                                                                                                                                                                                                                | 61         | 60         | 1.0              | 0.516                      | 0.0               | 65.8                        | 27.2              | 69.9              | 75.0                         | 68                |                   | 1.0               | 0.424 | 0.0   | 61.4 | 36.0 | 64.9 | 74.2 | 61 |       | 1.0 | 0.517 | 0.0   | 1.0 | 0.412 | 0.0   | 60.9  | 37.1 | 64.2 | 74.2 | 60   |       | 1.0 | 0.517 | 0.0   |     |  |  |  |  |
| 70                                                                                                                                                                                                                | 62         | 61         | 1.0              | 0.533                      | 0.0               | 66.8                        | 25.5              | 71.1              | 75.6                         | 70                |                   | 1.0               | 0.436 | 0.0   | 62.0 | 34.9 | 65.6 | 74.3 | 62 |       | 1.0 | 0.533 | 0.0   | 1.0 | 0.426 | 0.0   | 61.5  | 35.8 | 65.0 | 74.2 | 61   |       | 1.0 | 0.533 | 0.0   |     |  |  |  |  |
| 71                                                                                                                                                                                                                | 63         | 62         | 1.0              | 0.55                       | 0.0               | 67.7                        | 23.8              | 72.3              | 76.1                         | 71                |                   | 1.0               | 0.449 | 0.0   | 62.6 | 33.7 | 66.2 | 74.3 | 63 |       | 1.0 | 0.55  | 0.0   | 1.0 | 0.439 | 0.0   | 62.1  | 34.6 | 65.7 | 74.3 | 62   |       | 1.0 | 0.55  | 0.0   |     |  |  |  |  |
| 73                                                                                                                                                                                                                | 64         | 63         | 1.0              | 0.566                      | 0.0               | 68.7                        | 22.0              | 73.5              | 76.7                         | 73                |                   | 1.0               | 0.461 | 0.0   | 63.1 | 32.6 | 66.9 | 74.4 | 64 |       | 1.0 | 0.567 | 0.0   | 1.0 | 0.453 | 0.0   | 62.8  | 33.3 | 66.4 | 74.3 | 63   |       | 1.0 | 0.567 | 0.0   |     |  |  |  |  |
| 74                                                                                                                                                                                                                | 65         | 64         | 1.0              | 0.583                      | 0.0               | 69.7                        | 20.2              | 74.6              | 77.3                         | 74                |                   | 1.0               | 0.473 | 0.0   | 63.7 | 31.5 | 67.5 | 74.4 | 65 |       | 1.0 | 0.583 | 0.0   | 1.0 | 0.467 | 0.0   | 63.4  | 32.1 | 67.1 | 74.4 | 64   |       | 1.0 | 0.583 | 0.0   |     |  |  |  |  |
| 76                                                                                                                                                                                                                | 66         | 65         | 1.0              | 0.6                        | 0.0               | 70.6                        | 18.3              | 75.6              | 77.8                         | 76                |                   | 1.0               | 0.486 | 0.0   | 64.2 | 30.3 | 68.0 | 74.5 | 66 |       | 1.0 | 0.6   | 0.0   | 1.0 | 0.48  | 0.0   | 64.0  | 30.8 | 67.8 | 74.5 | 65   |       | 1.0 | 0.6   | 0.0   |     |  |  |  |  |
| 77                                                                                                                                                                                                                | 67         | 66         | 1.0              | 0.616                      | 0.0               | 71.6                        | 16.4              | 76.6              | 78.4                         | 77                |                   | 1.0               | 0.498 | 0.0   | 64.8 | 29.1 | 68.6 | 74.5 | 67 |       | 1.0 | 0.617 | 0.0   | 1.0 | 0.494 | 0.0   | 64.6  | 29.5 | 68.4 | 74.5 | 66   |       | 1.0 | 0.617 | 0.0   |     |  |  |  |  |
| 79                                                                                                                                                                                                                | 68         | 67         | 1.0              | 0.633                      | 0.0               | 72.5                        | 14.8              | 77.6              | 79.0                         | 79                |                   | 1.0               | 0.509 | 0.0   | 65.4 | 28.0 |      |      |    |       |     |       |       |     |       |       |       |      |      |      |      |       |     |       |       |     |  |  |  |  |

2-113931-L0

QS280-73

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

salida: Offset standard print; separation cmy0\*, D65, página 10/32

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$

entrada:  $rgb/cmyk \rightarrow rgb_{de}$

salida: 3D-linealización a  $cmy0^*$  de

2-113931-F0

C

M

Y

0

L

V

-6

F: 3D-linealización QS28/QS28LS30FP.DAT en archivo (F), página 11/33

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 *RYGBM*:  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $r_{ab,d}$ |     | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*dd361Mi$ |     |      |       |      |      |     | $LAB^*d361Mi(x=LabCh)$ |       |       |      | $rgb^*ds361Mi$ |      |      |      |       |       |     | $LAB^*dsx361Mi(x=LabCh)$ |       |     |       | $rgb^*dd361Mi$ |      |      |      |         |       |       | $rgb^*de361Mi$ |     |     |  | $LAB^*dex361Mi(x=LabCh)$ |  |  |  |  |  |  | $rgb^*dd361Mi$ |  |  | $rgb^*_d$ | $rgb^*_s$ | $rgb^*_e$ |
|------------|-----|------------|------------|----------------|-----|------|-------|------|------|-----|------------------------|-------|-------|------|----------------|------|------|------|-------|-------|-----|--------------------------|-------|-----|-------|----------------|------|------|------|---------|-------|-------|----------------|-----|-----|--|--------------------------|--|--|--|--|--|--|----------------|--|--|-----------|-----------|-----------|
| 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  | $Y_d$                  | 1.0   | 0.829 | 0.0  | 81.4           | 0.0  | 88.0 | 88.0 | 90    | $Y_s$ | 1.0 | 1.0                      | 0.0   | 1.0 | 0.879 | 0.0            | 83.6 | -3.6 | 90.4 | 90.5    | 92    | $Y_e$ | 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</ |       |       |                |     |     |  |                          |  |  |  |  |  |  |                |  |  |           |           |           |

2-1131031-L0 QS280-73

|              |          |                                                                                               |
|--------------|----------|-----------------------------------------------------------------------------------------------|
| 2-1131031-L0 | QS280-73 | 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 |
|--------------|----------|-----------------------------------------------------------------------------------------------|

gráfico TUB-QS28; código de tono: H\*<sub>e</sub>=R75Y<sub>e</sub>

círculo de tono, 48 pasos; *rgb-LabCh\** mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$

salida: 3D-linealización a  $cmy0^*_{de}$

salida: Offset standard print; separation cmy0\*, D65, página 11/33

2-1131031-F0

2-1131031-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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| 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 $RYGCBM_e$ : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$ |            |            |                  |                            |                   |                             |                   |                   |                              |                   |              |              |              |            |      |     |           |     |       |      |            |       |      |            |      |     |           |     |       |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|----------------------------|-------------------|-----------------------------|-------------------|-------------------|------------------------------|-------------------|--------------|--------------|--------------|------------|------|-----|-----------|-----|-------|------|------------|-------|------|------------|------|-----|-----------|-----|-------|--|--|--|
| $h_{ab,d}$                                                                                                                                                                                                        | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{d361Mi}$ (x=LabCh) | $rgb^*_{ds361Mi}$ | $LAB^*_{ds361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}$ (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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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   | 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                 |                             |                   |                   |                              |                   |              |              |              |            |      |     |           |     |       |      |            |       |      |            |      |     |           |     |       |  |  |  |

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 $RYGCBM_d$ : $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$ ; Six hue angles of the elementary colours $RYGCBM_e$ : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$ |            |            |                  |     |       |                              |       |       |                   |     |     |                              |       |      |                   |       |      |                   |     |     |              |              |              |       |      |       |       |      |     |     |     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|-----|-------|------------------------------|-------|-------|-------------------|-----|-----|------------------------------|-------|------|-------------------|-------|------|-------------------|-----|-----|--------------|--------------|--------------|-------|------|-------|-------|------|-----|-----|-----|-------|
| $h_{ab,d}$                                                                                                                                                                                                        | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ |     |       | $LAB^*_{dsx361Mi}$ (x=LabCh) |       |       | $rgb^*_{ds361Mi}$ |     |     | $LAB^*_{dex361Mi}$ (x=LabCh) |       |      | $rgb^*_{de361Mi}$ |       |      | $rgb^*_{dd361Mi}$ |     |     | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |       |      |       |       |      |     |     |     |       |
| 167                                                                                                                                                                                                               | 165        | 175        | 0.0              | 1.0 | 0.25  | 51.2                         | -58.9 | 12.7  | 60.3              | 167 | 0.0 | 1.0                          | 0.2   | 51.0 | -60.5             | 16.2  | 62.8 | 165               | 0.0 | 1.0 | 0.25         | 0.0          | 1.0          | 0.364 | 52.0 | -55.0 | 3.9   | 55.2 | 175 | 0.0 | 1.0 | 0.25  |
| 168                                                                                                                                                                                                               | 166        | 176        | 0.0              | 1.0 | 0.266 | 51.3                         | -58.4 | 11.3  | 59.5              | 168 | 0.0 | 1.0                          | 0.218 | 51.1 | -60.0             | 15.0  | 61.9 | 166               | 0.0 | 1.0 | 0.267        | 0.0          | 1.0          | 0.376 | 52.0 | -54.5 | 3.0   | 54.6 | 176 | 0.0 | 1.0 | 0.267 |
| 170                                                                                                                                                                                                               | 167        | 177        | 0.0              | 1.0 | 0.283 | 51.4                         | -57.9 | 10.0  | 58.8              | 170 | 0.0 | 1.0                          | 0.236 | 51.2 | -59.3             | 13.7  | 61.0 | 167               | 0.0 | 1.0 | 0.283        | 0.0          | 1.0          | 0.385 | 52.1 | -54.1 | 2.1   | 54.3 | 177 | 0.0 | 1.0 | 0.283 |
| 171                                                                                                                                                                                                               | 168        | 178        | 0.0              | 1.0 | 0.3   | 51.5                         | -57.3 | 8.7   | 58.0              | 171 | 0.0 | 1.0                          | 0.253 | 51.2 | -58.8             | 12.5  | 60.2 | 168               | 0.0 | 1.0 | 0.3          | 0.0          | 1.0          | 0.394 | 52.2 | -53.8 | 1.3   | 53.9 | 178 | 0.0 | 1.0 | 0.3   |
| 172                                                                                                                                                                                                               | 169        | 179        | 0.0              | 1.0 | 0.316 | 51.6                         | -56.8 | 7.4   | 57.3              | 172 | 0.0 | 1.0                          | 0.267 | 51.3 | -58.4             | 11.4  | 59.5 | 169               | 0.0 | 1.0 | 0.317        | 0.0          | 1.0          | 0.403 | 52.2 | -53.4 | 0.4   | 53.5 | 179 | 0.0 | 1.0 | 0.317 |
| 173                                                                                                                                                                                                               | 170        | 180        | 0.0              | 1.0 | 0.333 | 51.7                         | -56.2 | 6.1   | 56.5              | 173 | 0.0 | 1.0                          | 0.281 | 51.4 | -57.9             | 10.2  | 58.9 | 170               | 0.0 | 1.0 | 0.333        | 0.0          | 1.0          | 0.412 | 52.3 | -53.0 | -0.3  | 53.1 | 180 | 0.0 | 1.0 | 0.333 |
| 174                                                                                                                                                                                                               | 171        | 181        | 0.0              | 1.0 | 0.35  | 51.8                         | -55.5 | 4.9   | 55.8              | 174 | 0.0 | 1.0                          | 0.295 | 51.5 | -57.5             | 9.1   | 58.3 | 171               | 0.0 | 1.0 | 0.35         | 0.0          | 1.0          | 0.421 | 52.4 | -52.6 | -1.2  | 52.7 | 181 | 0.0 | 1.0 | 0.35  |
| 176                                                                                                                                                                                                               | 172        | 182        | 0.0              | 1.0 | 0.366 | 51.9                         | -54.9 | 3.7   | 55.0              | 176 | 0.0 | 1.0                          | 0.309 | 51.6 | -57.0             | 8.0   | 57.7 | 172               | 0.0 | 1.0 | 0.367        | 0.0          | 1.0          | 0.43  | 52.5 | -52.2 | -2.0  | 52.3 | 182 | 0.0 | 1.0 | 0.367 |
| 177                                                                                                                                                                                                               | 173        | 183        | 0.0              | 1.0 | 0.383 | 52.0                         | -54.2 | 2.3   | 54.3              | 177 | 0.0 | 1.0                          | 0.323 | 51.7 | -56.5             | 6.9   | 57.0 | 173               | 0.0 | 1.0 | 0.383        | 0.0          | 1.0          | 0.439 | 52.5 | -51.8 | -2.8  | 51.9 | 183 | 0.0 | 1.0 | 0.383 |
| 179                                                                                                                                                                                                               | 174        | 184        | 0.0              | 1.0 | 0.4   | 52.2                         | -53.6 | 0.7   | 53.6              | 179 | 0.0 | 1.0                          | 0.337 | 51.8 | -56.0             | 5.9   | 56.4 | 174               | 0.0 | 1.0 | 0.4          | 0.0          | 1.0          | 0.448 | 52.6 | -51.3 | -3.6  | 51.6 | 184 | 0.0 | 1.0 | 0.4   |
| 180                                                                                                                                                                                                               | 175        | 185        | 0.0              | 1.0 | 0.416 | 52.3                         | -52.8 | -0.8  | 52.9              | 180 | 0.0 | 1.0                          | 0.351 | 51.9 | -55.5             | 4.9   | 55.8 | 175               | 0.0 | 1.0 | 0.417        | 0.0          | 1.0          | 0.457 | 52.7 | -50.9 | -4.4  | 51.2 | 185 | 0.0 | 1.0 | 0.417 |
| 182                                                                                                                                                                                                               | 176        | 185        | 0.0              | 1.0 | 0.433 | 52.4                         | -52.1 | -2.3  | 52.1              | 182 | 0.0 | 1.0                          | 0.365 | 52.0 | -54.9             | 3.8   | 55.1 | 176               | 0.0 | 1.0 | 0.433        | 0.0          | 1.0          | 0.466 | 52.7 | -50.4 | -5.2  | 50.8 | 185 | 0.0 | 1.0 | 0.433 |
| 184                                                                                                                                                                                                               | 177        | 186        | 0.0              | 1.0 | 0.45  | 52.6                         | -51.3 | -3.8  | 51.4              | 184 | 0.0 | 1.0                          | 0.378 | 52.0 | -54.4             | 2.9   | 54.6 | 177               | 0.0 | 1.0 | 0.45         | 0.0          | 1.0          | 0.475 | 52.8 | -49.9 | -5.9  | 50.4 | 186 | 0.0 | 1.0 | 0.45  |
| 185                                                                                                                                                                                                               | 178        | 187        | 0.0              | 1.0 | 0.466 | 52.7                         | -50.4 | -5.3  | 50.7              | 185 | 0.0 | 1.0                          | 0.388 | 52.1 | -54.0             | 1.9   | 54.1 | 178               | 0.0 | 1.0 | 0.467        | 0.0          | 1.0          | 0.484 | 52.9 | -49.5 | -6.7  | 50.0 | 187 | 0.0 | 1.0 | 0.467 |
| 187                                                                                                                                                                                                               | 179        | 188        | 0.0              | 1.0 | 0.483 | 52.8                         | -49.6 | -6.6  | 50.0              | 187 | 0.0 | 1.0                          | 0.398 | 52.2 | -53.6             | 0.9   | 53.7 | 179               | 0.0 | 1.0 | 0.483        | 0.0          | 1.0          | 0.493 | 52.9 | -49.0 | -7.4  | 49.6 | 188 | 0.0 | 1.0 | 0.483 |
| 189                                                                                                                                                                                                               | 180        | 189        | 0.0              | 1.0 | 0.5   | 52.9                         | -48.6 | -8.0  | 49.3              | 189 | 0.0 | 1.0                          | 0.407 | 52.3 | -53.2             | 0.0   | 53.3 | 180               | 0.0 | 1.0 | 0.5          | 0.0          | 1.0          | 0.502 | 53.0 | -48.5 | -8.1  | 49.3 | 189 | 0.0 | 1.0 | 0.5   |
| 191                                                                                                                                                                                                               | 181        | 190        | 0.0              | 1.0 | 0.516 | 53.1                         | -47.9 | -9.5  | 48.9              | 191 | 0.0 | 1.0                          | 0.417 | 52.4 | -52.8             | -0.8  | 52.9 | 181               | 0.0 | 1.0 | 0.517        | 0.0          | 1.0          | 0.51  | 53.1 | -48.2 | -8.9  | 49.1 | 190 | 0.0 | 1.0 | 0.517 |
| 193                                                                                                                                                                                                               | 182        | 191        | 0.0              | 1.0 | 0.533 | 53.2                         | -47.2 | -10.9 | 48.4              | 193 | 0.0 | 1.0                          | 0.427 | 52.4 | -52.3             | -1.7  | 52.5 | 182               | 0.0 | 1.0 | 0.533        | 0.0          | 1.0          | 0.519 | 53.1 | -47.8 | -9.6  | 48.9 | 191 | 0.0 | 1.0 | 0.533 |
| 194                                                                                                                                                                                                               | 183        | 192        | 0.0              | 1.0 | 0.55  | 53.4                         | -46.4 | -12.3 | 48.0              | 194 | 0.0 | 1.0                          | 0.437 | 52.5 | -51.9             | -2.6  | 52.0 | 183               | 0.0 | 1.0 | 0.55         | 0.0          | 1.0          | 0.527 | 53.2 | -47.4 | -10.3 | 48.7 | 192 | 0.0 | 1.0 | 0.55  |
| 196                                                                                                                                                                                                               | 184        | 193        | 0.0              | 1.0 | 0.566 | 53.5                         | -45.6 | -13.7 | 47.6              | 196 | 0.0 | 1.0                          | 0.447 | 52.6 | -51.4             | -3.5  | 51.6 | 184               | 0.0 | 1.0 | 0.567        | 0.0          | 1.0          | 0.535 | 53.3 | -47.1 | -11.0 | 48.4 | 193 | 0.0 | 1.0 | 0.567 |
| 198                                                                                                                                                                                                               | 185        | 194        | 0.0              | 1.0 | 0.583 | 53.6                         | -44.7 | -15.0 | 47.1              | 198 | 0.0 | 1.0                          | 0.457 | 52.7 | -50.9             | -4.4  | 51.2 | 185               | 0.0 | 1.0 | 0.583        | 0.0          | 1.0          | 0.543 | 53.4 | -46.7 | -11.7 | 48.2 | 194 | 0.0 | 1.0 | 0.583 |
| 200                                                                                                                                                                                                               | 186        | 195        | 0.0              | 1.0 | 0.6   | 53.8                         | -43.8 | -16.3 | 46.7              | 200 | 0.0 | 1.0                          | 0.467 | 52.7 | -50.4             | -5.2  | 50.8 | 186               | 0.0 | 1.0 | 0.6          | 0.0          | 1.0          | 0.552 | 53.4 | -46.3 | -12.4 | 48.0 | 195 | 0.0 | 1.0 | 0.6   |
| 202                                                                                                                                                                                                               | 187        | 195        | 0.0              | 1.0 | 0.616 | 53.9                         | -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 | 0.617        | 0.0          | 1.0          | 0.56  | 53.5 | -45.9 | -13.1 | 47.8 | 195 | 0.0 | 1.0 | 0.617 |
| 204                                                                                                                                                                                                               | 188        | 196        | 0.0              | 1.0 | 0.633 | 54.1                         | -42.0 | -18.8 | 46.0              | 204 | 0.0 | 1.0                          | 0.486 | 52.9 | -49.3             | -6.8  | 49.9 | 188               | 0.0 | 1.0 | 0.633        | 0.0          | 1.0          | 0.568 | 53.6 | -45.4 | -13.7 | 47.6 | 196 | 0.0 | 1.0 | 0.633 |
| 206                                                                                                                                                                                                               | 189        | 197        | 0.0              | 1.0 | 0.65  | 54.2                         | -41.2 | -20.1 | 45.9              | 206 | 0.0 | 1.0                          | 0.496 | 53.0 | -48.8             | -7.6  | 49.5 | 189               | 0.0 | 1.0 | 0.65         | 0.0          | 1.0          | 0.576 | 53.6 | -45.0 | -14.4 | 47.4 | 197 | 0.0 | 1.0 | 0.65  |
| 207                                                                                                                                                                                                               | 190        | 198        | 0.0              | 1.0 | 0.666 | 54.3                         | -40.5 | -21.4 | 45.8              | 207 | 0.0 | 1.0                          | 0.506 | 53.0 | -48.4             | -8.4  | 49.2 | 190               | 0.0 | 1.0 | 0.667        | 0.0          | 1.0          | 0.585 | 53.7 | -44.6 | -15.0 | 47.2 | 198 | 0.0 | 1.0 | 0.667 |
| 209                                                                                                                                                                                                               | 191        | 199        | 0.0              | 1.0 | 0.683 | 54.5                         | -39.7 | -22.7 | 45.7              | 209 | 0.0 | 1.0                          | 0.515 | 53.1 | -48.0             | -9.2  | 49.0 | 191               | 0.0 | 1.0 | 0.683        | 0.0          | 1.0          | 0.593 | 53.8 | -44.1 | -15.7 | 47.0 | 199 | 0.0 | 1.0 | 0.683 |
| 211                                                                                                                                                                                                               | 192        | 200        | 0.0              | 1.0 | 0.7   | 54.6                         | -38.8 | -23.9 | 45.6              | 211 | 0.0 | 1.0                          | 0.524 | 53.2 | -47.6             | -10.0 | 48.7 | 192               | 0.0 | 1.0 | 0.7          | 0.0          | 1.0          | 0.601 | 53.8 | -43.7 | -16.3 | 46.7 | 200 | 0.0 | 1.0 | 0.7   |
| 213                                                                                                                                                                                                               | 193        | 201        | 0.0              | 1.0 | 0.716 | 54.7                         | -37.9 | -25.1 | 45.5              | 213 | 0.0 | 1.0                          | 0.533 | 53.3 | -47.2             | -10.8 | 48.5 | 193               | 0.0 | 1.0 | 0.717        | 0.0          | 1.0          | 0.609 | 53.9 | -43.2 | -16.9 | 46.5 | 201 | 0.0 | 1.0 | 0.717 |
| 215                                                                                                                                                                                                               | 194        | 202        | 0.0              | 1.0 | 0.733 | 54.9                         | -37.0 | -26.3 | 45.4              | 215 | 0.0 | 1.0                          | 0.542 | 53.3 | -46.7             | -11.6 | 48.3 | 194               | 0.0 | 1.0 | 0.733        | 0.0          | 1.0          | 0.618 | 54.0 | -42.7 | -17.5 | 46.3 | 202 | 0.0 | 1.0 | 0.733 |
| 217                                                                                                                                                                                                               | 195        | 203        | 0.0              | 1.0 | 0.75  | 55.0                         | -36.0 | -27.4 | 45.3              | 217 | 0.0 | 1.0                          | 0.551 | 53.4 | -46.3             | -12.3 | 48.0 | 195               | 0.0 | 1.0 | 0.75         | 0.0          | 1.0          | 0.626 | 54.1 | -42.3 | -18.1 | 46.1 | 203 | 0.0 | 1.0 | 0.75  |
| 218                                                                                                                                                                                                               | 196        | 204        | 0.0              | 1.0 | 0.766 | 55.1                         | -35.4 | -28.4 | 45.4              | 218 | 0.0 | 1.0                          | 0.56  | 53.5 | -45.9             | -13.1 | 47.8 | 196               | 0.0 | 1.0 | 0.767        | 0.0          | 1.0          | 0.634 | 54.1 | -41.9 | -18.8 | 46.1 | 204 | 0.0 | 1.0 | 0.767 |
| 220                                                                                                                                                                                                               | 197        | 205        | 0.0              | 1.0 | 0.783 | 55.2                         | -34.7 | -29.4 | 45.5              | 220 | 0.0 | 1.0                          | 0.569 | 53.6 | -45.4             | -13.8 | 47.6 | 197               | 0.0 | 1.0 | 0.783        | 0.0          | 1.0          | 0.642 | 54.2 | -41.6 | -19.4 | 46.0 | 205 | 0.0 | 1.0 | 0.783 |
| 221                                                                                                                                                                                                               | 198        | 206        | 0.0              | 1.0 | 0.8   | 55.3                         | -34.0 | -30.3 | 45.6              | 221 | 0.0 | 1.0                          | 0.578 | 53.6 | -44.9             | -14.5 | 47.3 | 198               | 0.0 | 1.0 | 0.8          | 0.0          | 1.0          | 0.65  | 54.2 | -41.2 | -20.1 | 46.0 | 206 | 0.0 | 1.0 | 0.8   |
| 223                                                                                                                                                                                                               | 199        | 206        | 0.0              | 1.0 | 0.816 | 55.4                         | -33.3 | -31.3 | 45.7              | 223 | 0.0 | 1.0                          | 0.587 | 53.7 | -44.4             | -15.2 | 47.1 | 199               | 0.0 | 1.0 | 0.817        | 0.0          | 1.0          | 0.658 | 54.3 | -40.8 | -20.7 | 45.9 | 206 | 0.0 | 1.0 | 0.817 |
| 224                                                                                                                                                                                                               | 200        | 207        | 0.0              | 1.0 | 0.833 | 55.6                         | -32.6 | -32.2 | 45.9              | 224 | 0.0 | 1.0                          | 0.596 | 53.8 | -43.9             | -15.9 | 46.9 | 200               | 0.0 | 1.0 | 0.833        | 0.0          | 1.0          | 0.666 | 54.4 | -40.4 | -21.3 | 45.9 | 207 | 0.0 | 1.0 | 0.833 |
| 226                                                                                                                                                                                                               | 201        | 208        | 0.0              | 1.0 | 0.85  | 55.7                         | -31.8 | -33.1 | 46.0              | 226 | 0.0 | 1.0                          | 0.605 | 53.9 | -43.4             | -16.6 | 46.6 | 201               | 0.0 | 1.0 | 0.85         | 0.0          | 1.0          | 0.674 | 54.4 | -40.0 | -21.9 | 45.8 | 208 | 0.0 | 1.0 | 0.85  |
| 227                                                                                                                                                                                                               | 202        | 209        | 0.0              | 1.0 | 0.866 | 55.8                         | -31.1 | -34.0 | 46.1              | 227 | 0.0 | 1.0                          | 0.614 | 54.0 | -42.9             | -17.3 | 46.4 | 202               | 0.0 | 1.0 | 0.867        | 0.0          | 1.0          | 0.682 | 54.5 | -39.6 | -22.6 | 45.7 | 209 | 0.0 | 1.0 | 0.867 |
| 229                                                                                                                                                                                                               | 203        | 210        | 0.0              | 1.0 | 0.883 | 55.9                         | -30.4 | -35.0 | 46.3              | 229 | 0.0 | 1.0                          | 0.623 | 54.0 | -42.4             | -17.9 | 46.2 | 203               | 0.0 | 1.0 | 0.883        | 0.0          | 1.0          | 0.691 | 54.6 | -39.2 | -23.2 | 45.7 | 210 | 0.0 | 1.0 | 0.883 |
| 230                                                                                                                                                                                                               | 204        | 211        | 0.0              | 1.0 | 0.9   | 56.0                         | -29.7 | -35.9 | 46.7              | 230 | 0.0 | 1.0                          | 0.632 | 54.1 | -42.0             | -18.6 | 46.1 | 204               | 0.0 | 1.0 | 0.9          | 0.0          | 1.0          | 0.699 | 54.6 | -38.8 | -23.8 | 45.6 | 211 | 0.0 | 1.0 | 0.9   |
| 231                                                                                                                                                                                                               | 205        | 212        | 0.0              | 1.0 | 0.916 | 56.1                         | -29.1 | -36.9 | 47.0              | 231 | 0.0 | 1.0                          | 0.641 | 54.2 | -41.6             | -19.3 | 46.0 | 205               | 0.0 | 1.0 | 0.917        | 0.0          | 1.0          | 0.707 | 54.7 | -38.4 | -24.3 | 45.6 | 212 | 0.0 | 1.0 | 0.917 |
| 233                                                                                                                                                                                                               | 206        | 213        | 0.0              | 1.0 | 0.933 | 56.3                         | -28.4 | -37.8 | 47.3              | 233 | 0.0 | 1.0                          | 0.65  | 54.2 | -41.2             | -20.0 | 46.0 | 206               | 0.0 | 1.0 | 0.933        | 0.0          | 1.0          | 0.715 | 54.8 | -37.9 | -24.9 |      |     |     |     |       |

2-1131231-L0 QS280-73

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

salida: Offset standard print; separation cmy0\*, D65, página 13/33

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos; *rgb-LabCh\**mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

2-1131231-F0

2-1131231-E0 C M Y O L V

8

-6

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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{dd361M}$ | $LAB^*_{dd361M}(x=LabCh)$ | $C_d$ | $rgb^*_{ds361Mi}$ | $LAB^*_{ds361Mi}(x=LabCh)$ | $C_s$ | $rgb^*_{dd361Mi}$ | $LAB^*_{de361Mi}$ | $rgb^*_{dex361Mi}(x=LabCh)$ | $C_e$            | $rgb^*_{dd361Mi}$ | $rgb^*_{dd}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |     |     |
|------------|------------|------------|------------------|---------------------------|-------|-------------------|----------------------------|-------|-------------------|-------------------|-----------------------------|------------------|-------------------|--------------|--------------|--------------|-----|-----|
| 238        | 210        | 216        | 0.0              | 1.0                       | 1.0   | 56.8              | -25.5 -41.5 48.7           | 238   | 0.0               | 1.0               | 0.685 54.5                  | -39.5 -22.8 45.7 | 210               | 0.0          | 1.0          | 1.0          | 1.0 |     |
| 239        | 211        | 217        | 0.0              | 0.983                     | 1.0   | 56.4              | -24.9 -41.5 48.4           | 239   | 0.0               | 1.0               | 0.694 54.6                  | -39.0 -23.4 45.7 | 211               | 0.0          | 0.983        | 1.0          | 1.0 |     |
| 239        | 212        | 218        | 0.0              | 0.966                     | 1.0   | 56.1              | -24.3 -41.5 48.1           | 239   | 0.0               | 1.0               | 0.703 54.7                  | -38.6 -24.1 45.6 | 212               | 0.0          | 0.967        | 1.0          | 1.0 |     |
| 240        | 213        | 219        | 0.0              | 0.95                      | 1.0   | 55.7              | -23.7 -41.5 47.8           | 240   | 0.0               | 1.0               | 0.712 54.7                  | -38.1 -24.7 45.6 | 213               | 0.0          | 0.95         | 1.0          | 1.0 |     |
| 240        | 214        | 220        | 0.0              | 0.933                     | 1.0   | 55.4              | -23.1 -41.5 47.5           | 240   | 0.0               | 1.0               | 0.721 54.8                  | -37.6 -25.3 45.5 | 214               | 0.0          | 0.933        | 1.0          | 1.0 |     |
| 241        | 215        | 221        | 0.0              | 0.916                     | 1.0   | 55.0              | -22.5 -41.4 47.2           | 241   | 0.0               | 1.0               | 0.73                        | 54.9             | -37.1 -26.0 45.4  | 215          | 0.0          | 0.917        | 1.0 | 1.0 |
| 242        | 216        | 222        | 0.0              | 0.9                       | 1.0   | 54.6              | -22.0 -41.4 46.9           | 242   | 0.0               | 1.0               | 0.739 55.0                  | -36.6 -26.6 45.4 | 216               | 0.0          | 0.9          | 1.0          | 1.0 |     |
| 242        | 217        | 223        | 0.0              | 0.883                     | 1.0   | 54.3              | -21.4 -41.4 46.6           | 242   | 0.0               | 1.0               | 0.747 55.0                  | -36.1 -27.2 45.3 | 217               | 0.0          | 0.883        | 1.0          | 1.0 |     |
| 243        | 218        | 224        | 0.0              | 0.866                     | 1.0   | 53.9              | -20.7 -41.3 46.3           | 243   | 0.0               | 1.0               | 0.758 55.1                  | -35.6 -27.8 45.4 | 218               | 0.0          | 0.867        | 1.0          | 1.0 |     |
| 244        | 219        | 225        | 0.0              | 0.85                      | 1.0   | 53.4              | -20.0 -41.3 45.9           | 244   | 0.0               | 1.0               | 0.769 55.2                  | -35.2 -28.5 45.4 | 219               | 0.0          | 0.85         | 1.0          | 1.0 |     |
| 245        | 220        | 226        | 0.0              | 0.833                     | 1.0   | 52.9              | -19.2 -41.3 45.6           | 245   | 0.0               | 1.0               | 0.781 55.3                  | -34.8 -29.2 45.5 | 220               | 0.0          | 0.833        | 1.0          | 1.0 |     |
| 245        | 221        | 227        | 0.0              | 0.816                     | 1.0   | 52.4              | -18.5 -41.3 45.3           | 245   | 0.0               | 1.0               | 0.792 55.3                  | -34.3 -29.8 45.6 | 221               | 0.0          | 0.817        | 1.0          | 1.0 |     |
| 246        | 222        | 227        | 0.0              | 0.8                       | 1.0   | 51.9              | -17.7 -41.3 44.9           | 246   | 0.0               | 1.0               | 0.803 55.4                  | -33.9 -30.5 45.7 | 222               | 0.0          | 0.8          | 1.0          | 1.0 |     |
| 247        | 223        | 228        | 0.0              | 0.783                     | 1.0   | 51.4              | -17.0 -41.2 44.6           | 247   | 0.0               | 1.0               | 0.815 55.5                  | -33.4 -31.1 45.8 | 223               | 0.0          | 0.783        | 1.0          | 1.0 |     |
| 248        | 224        | 229        | 0.0              | 0.766                     | 1.0   | 50.9              | -16.2 -41.2 44.2           | 248   | 0.0               | 1.0               | 0.826 55.6                  | -32.9 -31.7 45.8 | 224               | 0.0          | 0.767        | 1.0          | 1.0 |     |
| 249        | 225        | 230        | 0.0              | 0.75                      | 1.0   | 50.4              | -15.5 -41.1 43.9           | 249   | 0.0               | 1.0               | 0.837 55.6                  | -32.4 -32.4 45.9 | 225               | 0.0          | 0.75         | 1.0          | 1.0 |     |
| 250        | 226        | 231        | 0.0              | 0.733                     | 1.0   | 49.9              | -14.7 -41.1 43.6           | 250   | 0.0               | 1.0               | 0.849 55.7                  | -31.9 -33.0 46.0 | 226               | 0.0          | 0.733        | 1.0          | 1.0 |     |
| 251        | 227        | 232        | 0.0              | 0.716                     | 1.0   | 49.4              | -13.8 -41.1 43.4           | 251   | 0.0               | 1.0               | 0.86                        | 55.8             | -31.3 -33.6 46.1  | 227          | 0.0          | 0.717        | 1.0 | 1.0 |
| 252        | 228        | 233        | 0.0              | 0.7                       | 1.0   | 48.8              | -13.0 -41.1 43.1           | 252   | 0.0               | 1.0               | 0.871 55.9                  | -30.8 -34.2 46.2 | 228               | 0.0          | 0.7          | 1.0          | 1.0 |     |
| 253        | 229        | 234        | 0.0              | 0.683                     | 1.0   | 48.3              | -12.2 -41.1 42.9           | 253   | 0.0               | 1.0               | 0.883 55.9                  | -30.3 -34.9 46.4 | 229               | 0.0          | 0.683        | 1.0          | 1.0 |     |
| 254        | 230        | 235        | 0.0              | 0.666                     | 1.0   | 47.8              | -11.4 -41.0 42.6           | 254   | 0.0               | 1.0               | 0.896 56.0                  | -29.9 -35.6 46.6 | 230               | 0.0          | 0.667        | 1.0          | 1.0 |     |
| 255        | 231        | 236        | 0.0              | 0.65                      | 1.0   | 47.3              | -10.6 -41.0 42.3           | 255   | 0.0               | 1.0               | 0.908 56.1                  | -29.4 -36.3 46.9 | 231               | 0.0          | 0.65         | 1.0          | 1.0 |     |
| 256        | 232        | 237        | 0.0              | 0.633                     | 1.0   | 46.8              | -9.8 -40.9 42.1            | 256   | 0.0               | 1.0               | 0.92                        | 56.2             | -28.9 -37.0 47.1  | 232          | 0.0          | 0.633        | 1.0 | 1.0 |
| 257        | 233        | 237        | 0.0              | 0.616                     | 1.0   | 46.2              | -8.9 -40.9 41.8            | 257   | 0.0               | 1.0               | 0.933 56.3                  | -28.4 -37.7 47.4 | 233               | 0.0          | 0.617        | 1.0          | 1.0 |     |
| 259        | 234        | 238        | 0.0              | 0.6                       | 1.0   | 45.5              | -7.8 -40.9 41.7            | 259   | 0.0               | 1.0               | 0.945 56.4                  | -27.9 -38.4 47.6 | 234               | 0.0          | 0.6          | 1.0          | 1.0 |     |
| 260        | 235        | 239        | 0.0              | 0.583                     | 1.0   | 44.9              | -6.6 -41.0 41.5            | 260   | 0.0               | 1.0               | 0.957 56.5                  | -27.4 -39.1 47.9 | 235               | 0.0          | 0.583        | 1.0          | 1.0 |     |
| 262        | 236        | 240        | 0.0              | 0.566                     | 1.0   | 44.2              | -5.5 -40.9 41.3            | 262   | 0.0               | 1.0               | 0.97                        | 56.6             | -26.8 -39.8 48.1  | 236          | 0.0          | 0.567        | 1.0 | 1.0 |
| 263        | 237        | 241        | 0.0              | 0.55                      | 1.0   | 43.6              | -4.4 -40.9 41.1            | 263   | 0.0               | 1.0               | 0.982 56.7                  | -26.2 -40.5 48.4 | 237               | 0.0          | 0.55         | 1.0          | 1.0 |     |
| 265        | 238        | 242        | 0.0              | 0.533                     | 1.0   | 43.0              | -3.3 -40.8 41.0            | 265   | 0.0               | 1.0               | 0.994 56.8                  | -25.7 -41.1 48.6 | 238               | 0.0          | 0.533        | 1.0          | 1.0 |     |
| 266        | 239        | 243        | 0.0              | 0.516                     | 1.0   | 42.3              | -2.3 -40.7 40.8            | 266   | 0.0               | 0.985             | 1.0                         | 56.5             | -24.9 -41.4 48.5  | 239          | 0.0          | 0.517        | 1.0 | 1.0 |
| 268        | 240        | 244        | 0.0              | 0.5                       | 1.0   | 41.7              | -1.2 -40.6 40.6            | 268   | 0.0               | 0.956             | 1.0                         | 55.9             | -23.9 -41.4 48.0  | 240          | 0.0          | 0.5          | 1.0 | 1.0 |
| 269        | 241        | 245        | 0.0              | 0.483                     | 1.0   | 41.1              | -0.2 -40.6 40.6            | 269   | 0.0               | 0.928             | 1.0                         | 55.3             | -22.9 -41.4 47.4  | 241          | 0.0          | 0.483        | 1.0 | 1.0 |
| 271        | 242        | 246        | 0.0              | 0.466                     | 1.0   | 40.5              | 0.7 -40.6 40.6             | 271   | 0.0               | 0.9               | 1.0                         | 54.7             | -21.9 -41.3 46.9  | 242          | 0.0          | 0.467        | 1.0 | 1.0 |
| 272        | 243        | 247        | 0.0              | 0.45                      | 1.0   | 39.9              | 1.7 -40.6 40.6             | 272   | 0.0               | 0.873             | 1.0                         | 54.1             | -21.0 -41.3 46.4  | 243          | 0.0          | 0.45         | 1.0 | 1.0 |
| 273        | 244        | 248        | 0.0              | 0.433                     | 1.0   | 39.3              | 2.7 -40.6 40.6             | 273   | 0.0               | 0.854             | 1.0                         | 53.5             | -20.1 -41.3 46.1  | 244          | 0.0          | 0.433        | 1.0 | 1.0 |
| 275        | 245        | 248        | 0.0              | 0.416                     | 1.0   | 38.8              | 3.6 -40.5 40.6             | 275   | 0.0               | 0.834             | 1.0                         | 53.0             | -19.2 -41.3 45.7  | 245          | 0.0          | 0.417        | 1.0 | 1.0 |
| 276        | 246        | 249        | 0.0              | 0.4                       | 1.0   | 38.2              | 4.6 -40.4 40.7             | 276   | 0.0               | 0.815             | 1.0                         | 52.4             | -18.3 -41.3 45.3  | 246          | 0.0          | 0.4          | 1.0 | 1.0 |
| 277        | 247        | 250        | 0.0              | 0.383                     | 1.0   | 37.6              | 5.6 -40.3 40.7             | 277   | 0.0               | 0.795             | 1.0                         | 51.8             | -17.4 -41.2 44.9  | 247          | 0.0          | 0.383        | 1.0 | 1.0 |
| 279        | 248        | 251        | 0.0              | 0.366                     | 1.0   | 37.0              | 6.6 -40.2 40.8             | 279   | 0.0               | 0.775             | 1.0                         | 51.2             | -16.6 -41.1 44.5  | 248          | 0.0          | 0.367        | 1.0 | 1.0 |
| 280        | 249        | 252        | 0.0              | 0.35                      | 1.0   | 36.4              | 7.7 -40.3 41.1             | 280   | 0.0               | 0.756             | 1.0                         | 50.6             | -15.7 -41.1 44.1  | 249          | 0.0          | 0.35         | 1.0 | 1.0 |
| 282        | 250        | 253        | 0.0              | 0.333                     | 1.0   | 35.8              | 8.8 -40.4 41.3             | 282   | 0.0               | 0.739             | 1.0                         | 50.1             | -14.9 -41.0 43.8  | 250          | 0.0          | 0.333        | 1.0 | 1.0 |
| 283        | 251        | 254        | 0.0              | 0.316                     | 1.0   | 35.2              | 9.9 -40.4 41.6             | 283   | 0.0               | 0.722             | 1.0                         | 49.6             | -14.1 -41.1 43.5  | 251          | 0.0          | 0.317        | 1.0 | 1.0 |
| 285        | 252        | 255        | 0.0              | 0.3                       | 1.0   | 34.6              | 11.0 -40.4 41.9            | 285   | 0.0               | 0.706             | 1.0                         | 49.1             | -13.3 -41.0 43.3  | 252          | 0.0          | 0.3          | 1.0 | 1.0 |
| 286        | 253        | 256        | 0.0              | 0.283                     | 1.0   | 34.0              | 12.1 -40.3 42.1            | 286   | 0.0               | 0.69              | 1.0                         | 48.6             | -12.5 -41.0 43.0  | 253          | 0.0          | 0.283        | 1.0 | 1.0 |
| 288        | 254        | 257        | 0.0              | 0.266                     | 1.0   | 33.4              | 13.2 -40.3 42.4            | 288   | 0.0               | 0.673             | 1.0                         | 48.1             | -11.7 -41.0 42.7  | 254          | 0.0          | 0.267        | 1.0 | 1.0 |
| 289        | 255        | 258        | 0.0              | 0.25                      | 1.0   | 32.8              | 14.3 -40.2 42.7            | 289   | 0.0               | 0.657             | 1.0                         | 47.5             | -10.9 -40.9 42.5  | 255          | 0.0          | 0.25         | 1.0 | 1.0 |

2-1131331-L0 QS280-73 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

salida: Offset standard print; separation cmy0\*, D65, página 14/33

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos;  $rgb-LabCh^*$ mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación 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  $RYGCBM_s$ :  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

| $h_{ab,d}$ | $h_{ab,s}$ | $h_{ab,e}$ | $rgb^*_{ds361M}$ | $LAB^*_{ds361Mi}$ (x=LabCh) | $rgb^*_{ds361Mi}$ | $LAB^*_{dsx361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{de361Mi}$ | $LAB^*_{dex361Mi}$ (x=LabCh) | $rgb^*_{dd361Mi}$ | $rgb^*_{ds}$ | $rgb^*_{de}$ |     |      |       |       |      |     |           |       |     |  |  |  |
|------------|------------|------------|------------------|-----------------------------|-------------------|------------------------------|-------------------|-------------------|------------------------------|-------------------|--------------|--------------|-----|------|-------|-------|------|-----|-----------|-------|-----|--|--|--|
| 289        | 255        | 258        | 0.0              | 0.25                        | 1.0               | 32.8                         | 14.3              | -40.2             | 42.7                         | 289               | 0.0          | 0.657        | 1.0 | 47.5 | -10.9 | -40.9 | 42.5 | 255 | 0.0       | 0.25  | 1.0 |  |  |  |
| 290        | 256        | 258        | 0.0              | 0.233                       | 1.0               | 32.2                         | 15.3              | -40.3             | 43.1                         | 290               | 0.0          | 0.641        | 1.0 | 47.0 | -10.1 | -40.9 | 42.2 | 256 | 0.0       | 0.233 | 1.0 |  |  |  |
| 292        | 257        | 259        | 0.0              | 0.216                       | 1.0               | 31.7                         | 16.4              | -40.3             | 43.6                         | 292               | 0.0          | 0.624        | 1.0 | 46.5 | -9.3  | -40.8 | 42.0 | 257 | 0.0       | 0.217 | 1.0 |  |  |  |
| 293        | 258        | 260        | 0.0              | 0.2                         | 1.0               | 31.1                         | 17.5              | -40.4             | 44.0                         | 293               | 0.0          | 0.613        | 1.0 | 46.1 | -8.6  | -40.8 | 41.9 | 258 | 0.0       | 0.2   | 1.0 |  |  |  |
| 294        | 259        | 261        | 0.0              | 0.183                       | 1.0               | 30.6                         | 18.5              | -40.4             | 44.5                         | 294               | 0.0          | 0.602        | 1.0 | 45.7 | -7.9  | -40.9 | 41.7 | 259 | 0.0       | 0.183 | 1.0 |  |  |  |
| 295        | 260        | 262        | 0.0              | 0.166                       | 1.0               | 30.0                         | 19.6              | -40.4             | 44.9                         | 295               | 0.0          | 0.591        | 1.0 | 45.3 | -7.1  | -40.9 | 41.6 | 260 | 0.0       | 0.167 | 1.0 |  |  |  |
| 297        | 261        | 263        | 0.0              | 0.15                        | 1.0               | 29.5                         | 20.7              | -40.4             | 45.4                         | 297               | 0.0          | 0.58         | 1.0 | 44.8 | -6.4  | -40.9 | 41.5 | 261 | 0.0       | 0.15  | 1.0 |  |  |  |
| 298        | 262        | 264        | 0.0              | 0.133                       | 1.0               | 28.9                         | 21.8              | -40.3             | 45.8                         | 298               | 0.0          | 0.569        | 1.0 | 44.4 | -5.7  | -40.9 | 41.4 | 262 | 0.0       | 0.133 | 1.0 |  |  |  |
| 299        | 263        | 265        | 0.0              | 0.116                       | 1.0               | 28.4                         | 22.8              | -40.3             | 46.3                         | 299               | 0.0          | 0.558        | 1.0 | 44.0 | -4.9  | -40.9 | 41.3 | 263 | 0.0       | 0.117 | 1.0 |  |  |  |
| 300        | 264        | 266        | 0.0              | 0.1                         | 1.0               | 27.9                         | 23.8              | -40.4             | 46.9                         | 300               | 0.0          | 0.547        | 1.0 | 43.5 | -4.2  | -40.8 | 41.2 | 264 | 0.0       | 0.1   | 1.0 |  |  |  |
| 301        | 265        | 267        | 0.0              | 0.083                       | 1.0               | 27.4                         | 24.7              | -40.4             | 47.4                         | 301               | 0.0          | 0.536        | 1.0 | 43.1 | -3.5  | -40.8 | 41.1 | 265 | 0.0       | 0.083 | 1.0 |  |  |  |
| 302        | 266        | 268        | 0.0              | 0.066                       | 1.0               | 26.9                         | 25.7              | -40.4             | 47.9                         | 302               | 0.0          | 0.525        | 1.0 | 42.7 | -2.8  | -40.7 | 40.9 | 266 | 0.0       | 0.067 | 1.0 |  |  |  |
| 303        | 267        | 269        | 0.0              | 0.049                       | 1.0               | 26.5                         | 26.6              | -40.5             | 48.4                         | 303               | 0.0          | 0.514        | 1.0 | 42.3 | -2.0  | -40.7 | 40.8 | 267 | 0.0       | 0.05  | 1.0 |  |  |  |
| 304        | 268        | 269        | 0.0              | 0.033                       | 1.0               | 26.0                         | 27.6              | -40.4             | 49.0                         | 304               | 0.0          | 0.503        | 1.0 | 41.8 | -1.3  | -40.6 | 40.7 | 268 | 0.0       | 0.033 | 1.0 |  |  |  |
| 305        | 269        | 270        | 0.0              | 0.016                       | 1.0               | 25.5                         | 28.6              | -40.4             | 49.5                         | 305               | 0.0          | 0.491        | 1.0 | 41.4 | -0.6  | -40.6 | 40.7 | 269 | 0.0       | 0.017 | 1.0 |  |  |  |
| 306        | 270        | 271        | 0.0              | 0.0                         | 1.0               | 25.0                         | 29.5              | -40.4             | 50.0                         | 306               | $B_d$ 0.0    | 0.479        | 1.0 | 41.0 | 0.0   | -40.6 | 40.7 | 270 | $B_s$ 0.0 | 0.0   | 1.0 |  |  |  |
| 307        | 271        | 272        | 0.016            | 0.0                         | 1.0               | 25.4                         | 30.4              | -39.9             | 50.2                         | 307               | 0.0          | 0.467        | 1.0 | 40.6 | 0.7   | -40.6 | 40.7 | 271 | 0.017     | 0.0   | 1.0 |  |  |  |
| 308        | 272        | 273        | 0.033            | 0.0                         | 1.0               | 25.8                         | 31.3              | -39.4             | 50.4                         | 308               | 0.0          | 0.455        | 1.0 | 40.2 | 1.4   | -40.6 | 40.7 | 272 | 0.033     | 0.0   | 1.0 |  |  |  |
| 309        | 273        | 274        | 0.05             | 0.0                         | 1.0               | 26.2                         | 32.2              | -38.9             | 50.5                         | 309               | 0.0          | 0.443        | 1.0 | 39.7 | 2.1   | -40.5 | 40.7 | 273 | 0.05      | 0.0   | 1.0 |  |  |  |
| 310        | 274        | 275        | 0.066            | 0.0                         | 1.0               | 26.5                         | 33.1              | -38.4             | 50.7                         | 310               | 0.0          | 0.431        | 1.0 | 39.3 | 2.8   | -40.5 | 40.7 | 274 | 0.067     | 0.0   | 1.0 |  |  |  |
| 311        | 275        | 276        | 0.083            | 0.0                         | 1.0               | 26.9                         | 33.9              | -37.8             | 50.8                         | 311               | 0.0          | 0.419        | 1.0 | 38.9 | 3.5   | -40.4 | 40.7 | 275 | 0.083     | 0.0   | 1.0 |  |  |  |
| 313        | 276        | 277        | 0.1              | 0.0                         | 1.0               | 27.3                         | 34.8              | -37.3             | 51.0                         | 313               | 0.0          | 0.407        | 1.0 | 38.5 | 4.3   | -40.4 | 40.7 | 276 | 0.1       | 0.0   | 1.0 |  |  |  |
| 314        | 277        | 278        | 0.116            | 0.0                         | 1.0               | 27.7                         | 35.6              | -36.7             | 51.1                         | 314               | 0.0          | 0.395        | 1.0 | 38.1 | 5.0   | -40.3 | 40.7 | 277 | 0.117     | 0.0   | 1.0 |  |  |  |
| 315        | 278        | 279        | 0.133            | 0.0                         | 1.0               | 27.9                         | 36.4              | -36.2             | 51.3                         | 315               | 0.0          | 0.383        | 1.0 | 37.6 | 5.7   | -40.2 | 40.7 | 278 | 0.133     | 0.0   | 1.0 |  |  |  |
| 316        | 279        | 280        | 0.15             | 0.0                         | 1.0               | 28.1                         | 37.2              | -35.7             | 51.6                         | 316               | 0.0          | 0.371        | 1.0 | 37.2 | 6.4   | -40.2 | 40.8 | 279 | 0.15      | 0.0   | 1.0 |  |  |  |
| 317        | 280        | 281        | 0.166            | 0.0                         | 1.0               | 28.2                         | 38.0              | -35.2             | 51.9                         | 317               | 0.0          | 0.36         | 1.0 | 36.8 | 7.1   | -40.2 | 41.0 | 280 | 0.167     | 0.0   | 1.0 |  |  |  |
| 318        | 281        | 282        | 0.183            | 0.0                         | 1.0               | 28.3                         | 38.8              | -34.7             | 52.1                         | 318               | 0.0          | 0.348        | 1.0 | 36.4 | 7.8   | -40.3 | 41.1 | 281 | 0.183     | 0.0   | 1.0 |  |  |  |
| 319        | 282        | 283        | 0.2              | 0.0                         | 1.0               | 28.5                         | 39.6              | -34.2             | 52.4                         | 319               | 0.0          | 0.337        | 1.0 | 36.0 | 8.6   | -40.3 | 41.3 | 282 | 0.2       | 0.0   | 1.0 |  |  |  |
| 320        | 283        | 284        | 0.216            | 0.0                         | 1.0               | 28.6                         | 40.4              | -33.7             | 52.6                         | 320               | 0.0          | 0.326        | 1.0 | 35.6 | 9.3   | -40.3 | 41.5 | 283 | 0.217     | 0.0   | 1.0 |  |  |  |
| 321        | 284        | 285        | 0.233            | 0.0                         | 1.0               | 28.7                         | 41.2              | -33.1             | 52.9                         | 321               | 0.0          | 0.314        | 1.0 | 35.2 | 10.1  | -40.3 | 41.7 | 284 | 0.233     | 0.0   | 1.0 |  |  |  |
| 322        | 285        | 285        | 0.25             | 0.0                         | 1.0               | 28.8                         | 41.9              | -32.5             | 53.1                         | 322               | 0.0          | 0.303        | 1.0 | 34.8 | 10.8  | -40.3 | 41.9 | 285 | 0.25      | 0.0   | 1.0 |  |  |  |
| 323        | 286        | 286        | 0.266            | 0.0                         | 1.0               | 29.4                         | 43.3              | -31.8             | 53.8                         | 323               | 0.0          | 0.291        | 1.0 | 34.3 | 11.6  | -40.3 | 42.0 | 286 | 0.267     | 0.0   | 1.0 |  |  |  |
| 325        | 287        | 287        | 0.283            | 0.0                         | 1.0               | 29.9                         | 44.7              | -31.1             | 54.4                         | 325               | 0.0          | 0.28         | 1.0 | 33.9 | 12.3  | -40.3 | 42.2 | 287 | 0.283     | 0.0   | 1.0 |  |  |  |
| 326        | 288        | 288        | 0.3              | 0.0                         | 1.0               | 30.4                         | 46.0              | -30.3             | 55.1                         | 326               | 0.0          | 0.269        | 1.0 | 33.5 | 13.1  | -40.2 | 42.4 | 288 | 0.3       | 0.0   | 1.0 |  |  |  |
| 328        | 289        | 289        | 0.316            | 0.0                         | 1.0               | 30.9                         | 47.3              | -29.4             | 55.7                         | 328               | 0.0          | 0.257        | 1.0 | 33.1 | 13.9  | -40.2 | 42.6 | 289 | 0.317     | 0.0   | 1.0 |  |  |  |
| 329        | 290        | 290        | 0.333            | 0.0                         | 1.0               | 31.4                         | 48.6              | -28.5             | 56.4                         | 329               | 0.0          | 0.245        | 1.0 | 32.7 | 14.6  | -40.1 | 42.8 | 290 | 0.333     | 0.0   | 1.0 |  |  |  |
| 331        | 291        | 291        | 0.35             | 0.0                         | 1.0               | 32.0                         | 49.9              | -27.5             | 57.0                         | 331               | 0.0          | 0.232        | 1.0 | 32.2 | 15.5  | -40.2 | 43.2 | 291 | 0.35      | 0.0   | 1.0 |  |  |  |
| 332        | 292        | 292        | 0.366            | 0.0                         | 1.0               | 32.5                         | 51.2              | -26.5             | 57.7                         | 332               | 0.0          | 0.219        | 1.0 | 31.8 | 16.3  | -40.3 | 43.6 | 292 | 0.367     | 0.0   | 1.0 |  |  |  |
| 333        | 293        | 293        | 0.383            | 0.0                         | 1.0               | 32.9                         | 52.3              | -25.7             | 58.3                         | 333               | 0.0          | 0.205        | 1.0 | 31.4 | 17.2  | -40.3 | 43.9 | 293 | 0.383     | 0.0   | 1.0 |  |  |  |
| 334        | 294        | 294        | 0.4              | 0.0                         | 1.0               | 33.3                         | 53.2              | -25.0             | 58.8                         | 334               | 0.0          | 0.192        | 1.0 | 30.9 | 18.0  | -40.3 | 44.3 | 294 | 0.4       | 0.0   | 1.0 |  |  |  |
| 335        | 295        | 295        | 0.416            | 0.0                         | 1.0               | 33.7                         | 54.1              | -24.4             | 59.4                         | 335               | 0.0          | 0.179        | 1.0 | 30.5 | 18.9  | -40.4 | 44.6 | 295 | 0.417     | 0.0   | 1.0 |  |  |  |
| 336        | 296        | 296        | 0.433            | 0.0                         | 1.0               | 34.0                         | 55.0              | -23.7             | 59.9                         | 336               | 0.0          | 0.166        | 1.0 | 30.0 | 19.7  | -40.3 | 45.0 | 296 | 0.433     | 0.0   | 1.0 |  |  |  |
| 337        | 297        | 297        | 0.45             | 0.0                         | 1.0               | 34.4                         | 55.9              | -23.0             | 60.5                         | 337               | 0.0          | 0.152        | 1.0 | 29.6 | 20.6  | -40.3 | 45.4 | 297 | 0.45      | 0.0   | 1.0 |  |  |  |
| 338        | 298        | 298        | 0.466            | 0.0                         | 1.0               | 34.8                         | 56.8              | -22.2             | 61.0                         | 338               | 0.0          | 0.139        | 1.0 | 29.1 | 21.5  | -40.3 | 45.7 | 298 | 0.467     | 0.0   | 1.0 |  |  |  |
| 339        | 299        | 299        | 0.483            | 0.0                         | 1.0               | 35.2                         | 57.7              | -21.5             | 61.6                         | 339               | 0.0          | 0.126        | 1.0 | 28.7 | 22.3  | -40.2 | 46.1 | 299 | 0.483     | 0.0   | 1.0 |  |  |  |
| 340        | 300        | 300        | 0.5              | 0.0                         | 1.0               | 35.6                         | 58.6              | -20.7             | 62.1                         | 340               | 0.0          | 0.109        | 1.0 | 28.2 | 23.3  | -40.3 | 46.6 | 300 | 0.5       | 0.0   | 1.0 |  |  |  |

2-1131431-L0 QS280-73 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

salida: Offset standard print; separation cmy0\*, D65, página 15/33

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos;  $rgb-LabCh^*$ mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)  
TUB material: code=rha4ta

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28.HTM>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS TUB material: código de aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)

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*:  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

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  $RYGCBM_e$ :  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

[illegible]

2-1131531-L0 QS280-73

gráfico TUB-QS28; código de tono:  $H^*_e=R75Y_e$   
círculo de tono, 48 pasos; *rgb-LabCh\**mesas

entrada:  $rgb/cmyk \rightarrow rgb_{de}$   
salida: 3D-linealización a  $cmy0^*_{de}$

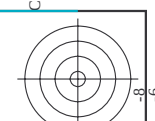
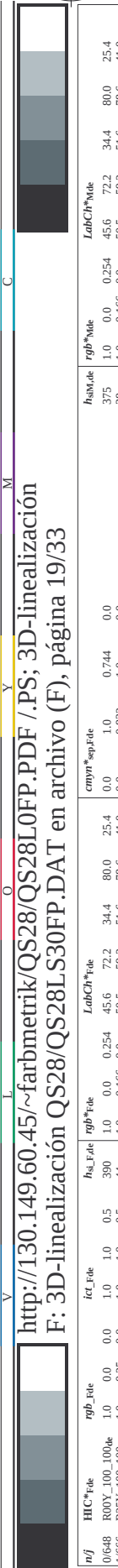
salida: Offset standard print; separation cmy0\*, D65, página 16/33

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| <i>h</i> <sub>ab,d</sub> | <i>h</i> <sub>ab,s</sub> | <i>h</i> <sub>ab,e</sub> | <i>rgb</i> * <sub>dd361M</sub> | <i>LAB</i> * <sub>dd361Mi</sub> (x=LabCh) | <i>rgb</i> * <sub>ds361Mi</sub> | <i>LAB</i> * <sub>dsx361Mi</sub> (x=LabCh) | <i>rgb</i> * <sub>dd361Mi</sub> | <i>rgb</i> * <sub>de361Mi</sub> | <i>LAB</i> * <sub>dex361Mi</sub> (x=LabCh) | <i>rgb</i> * <sub>dd361Mi</sub> | <i>rgb</i> * <sub>ds</sub> | <i>rgb</i> * <sub>de</sub> |               |  |  |  |
|--------------------------|--------------------------|--------------------------|--------------------------------|-------------------------------------------|---------------------------------|--------------------------------------------|---------------------------------|---------------------------------|--------------------------------------------|---------------------------------|----------------------------|----------------------------|---------------|--|--|--|
| 366                      | 345                      | 342                      | 1.0 0.0 0.75                   | 45.9 77.1 8.6                             | 77.6 366                        | 0.576 0.0 1.0                              | 37.1 62.9 -16.7                 | 65.1 345                        | 1.0 0.0 0.75                               | 0.539 0.0 1.0                   | 36.4 60.8 -18.7            | 63.7 342                   | 1.0 0.0 0.75  |  |  |  |
| 367                      | 346                      | 343                      | 1.0 0.0 0.733                  | 45.9 77.0 9.4                             | 77.5 367                        | 0.593 0.0 1.0                              | 37.5 63.8 -15.8                 | 65.7 346                        | 1.0 0.0 0.733                              | 0.555 0.0 1.0                   | 36.7 61.7 -17.9            | 64.3 343                   | 1.0 0.0 0.733 |  |  |  |
| 367                      | 347                      | 344                      | 1.0 0.0 0.716                  | 45.9 76.8 10.3                            | 77.5 367                        | 0.61 0.0 1.0                               | 37.8 64.7 -14.8                 | 66.4 347                        | 1.0 0.0 0.717                              | 0.571 0.0 1.0                   | 37.0 62.6 -17.0            | 64.9 344                   | 1.0 0.0 0.717 |  |  |  |
| 368                      | 348                      | 345                      | 1.0 0.0 0.7                    | 45.9 76.6 11.1                            | 77.4 368                        | 0.627 0.0 1.0                              | 38.2 65.6 -13.8                 | 67.1 348                        | 1.0 0.0 0.7                                | 0.587 0.0 1.0                   | 37.3 63.5 -16.1            | 65.5 345                   | 1.0 0.0 0.7   |  |  |  |
| 368                      | 349                      | 346                      | 1.0 0.0 0.683                  | 45.9 76.4 11.9                            | 77.3 368                        | 0.654 0.0 1.0                              | 39.0 66.8 -12.9                 | 68.1 349                        | 1.0 0.0 0.683                              | 0.603 0.0 1.0                   | 37.7 64.3 -15.2            | 66.1 346                   | 1.0 0.0 0.683 |  |  |  |
| 369                      | 350                      | 347                      | 1.0 0.0 0.666                  | 45.9 76.2 12.8                            | 77.2 369                        | 0.681 0.0 1.0                              | 39.8 68.0 -11.9                 | 69.1 350                        | 1.0 0.0 0.667                              | 0.619 0.0 1.0                   | 38.0 65.2 -14.3            | 66.7 347                   | 1.0 0.0 0.667 |  |  |  |
| 370                      | 351                      | 348                      | 1.0 0.0 0.65                   | 46.0 75.9 13.6                            | 77.2 370                        | 0.708 0.0 1.0                              | 40.6 69.2 -10.9                 | 70.1 351                        | 1.0 0.0 0.65                               | 0.641 0.0 1.0                   | 38.6 66.2 -13.4            | 67.6 348                   | 1.0 0.0 0.65  |  |  |  |
| 370                      | 352                      | 349                      | 1.0 0.0 0.633                  | 46.0 75.7 14.4                            | 77.1 370                        | 0.735 0.0 1.0                              | 41.4 70.4 -9.8                  | 71.1 352                        | 1.0 0.0 0.633                              | 0.667 0.0 1.0                   | 39.3 67.4 -12.4            | 68.5 349                   | 1.0 0.0 0.633 |  |  |  |
| 371                      | 353                      | 350                      | 1.0 0.0 0.616                  | 46.0 75.5 15.2                            | 77.1 371                        | 0.765 0.0 1.0                              | 42.1 71.6 -8.7                  | 72.1 353                        | 1.0 0.0 0.617                              | 0.692 0.0 1.0                   | 40.1 68.5 -11.5            | 69.5 350                   | 1.0 0.0 0.617 |  |  |  |
| 372                      | 354                      | 351                      | 1.0 0.0 0.6                    | 45.9 75.4 16.1                            | 77.1 372                        | 0.8 0.0 1.0                                | 42.8 72.7 -7.5                  | 73.1 354                        | 1.0 0.0 0.6                                | 0.717 0.0 1.0                   | 40.9 69.6 -10.5            | 70.4 351                   | 1.0 0.0 0.6   |  |  |  |
| 372                      | 355                      | 352                      | 1.0 0.0 0.583                  | 45.9 75.2 16.9                            | 77.1 372                        | 0.835 0.0 1.0                              | 43.5 73.9 -6.4                  | 74.2 355                        | 1.0 0.0 0.583                              | 0.743 0.0 1.0                   | 41.6 70.7 -9.5             | 71.4 352                   | 1.0 0.0 0.583 |  |  |  |
| 373                      | 356                      | 353                      | 1.0 0.0 0.566                  | 45.9 75.0 17.8                            | 77.1 373                        | 0.87 0.0 1.0                               | 44.2 75.0 -5.1                  | 75.2 356                        | 1.0 0.0 0.567                              | 0.774 0.0 1.0                   | 42.3 71.9 -8.4             | 72.4 353                   | 1.0 0.0 0.567 |  |  |  |
| 374                      | 357                      | 354                      | 1.0 0.0 0.55                   | 45.9 74.8 18.6                            | 77.1 374                        | 0.904 0.0 1.0                              | 44.7 76.2 -3.9                  | 76.3 357                        | 1.0 0.0 0.55                               | 0.807 0.0 1.0                   | 42.9 73.0 -7.3             | 73.3 354                   | 1.0 0.0 0.55  |  |  |  |
| 374                      | 358                      | 355                      | 1.0 0.0 0.533                  | 45.9 74.6 19.5                            | 77.1 374                        | 0.938 0.0 1.0                              | 45.2 77.3 -2.6                  | 77.3 358                        | 1.0 0.0 0.533                              | 0.84 0.0 1.0                    | 43.6 74.1 -6.2             | 74.3 355                   | 1.0 0.0 0.533 |  |  |  |
| 375                      | 359                      | 356                      | 1.0 0.0 0.516                  | 45.9 74.4 20.3                            | 77.1 375                        | 0.971 0.0 1.0                              | 45.7 78.4 -1.3                  | 78.4 359                        | 1.0 0.0 0.517                              | 0.873 0.0 1.0                   | 44.2 75.1 -5.0             | 75.3 356                   | 1.0 0.0 0.517 |  |  |  |
| 375                      | 360                      | 352                      | 1.0 0.0 0.5                    | 45.9 74.2 21.1                            | 77.1 375                        | 1.0 0.0 0.994                              | 46.1 79.3 0.0                   | 79.3 360                        | 1.0 0.0 0.5                                | 0.736 0.0 1.0                   | 41.4 70.5 -9.7             | 71.1 352                   | 1.0 0.0 0.5   |  |  |  |
| 376                      | 361                      | 353                      | 1.0 0.0 0.483                  | 45.8 74.1 22.1                            | 77.3 376                        | 1.0 0.0 0.955                              |                                 |                                 |                                            |                                 |                            |                            |               |  |  |  |

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| http://130.149.60.45/~farbmatrik/QS28/QS28L0FP.PDF /.PS; 3D-linealización F: 3D-linealización QS28/QS28L30FP.DAT en archivo (F), página 19/33 |                |          |          |          |          |            |               |     |       |       |     |       |     |     |       |      |       |      |      | entrada: rgb/cmyk -> rgbd<br>salida: 3D-linealización a cmy0* de |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|----------|----------|----------|------------|---------------|-----|-------|-------|-----|-------|-----|-----|-------|------|-------|------|------|------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| n/f                                                                                                                                           | HfC*Fide       | rgb_Fide | icr_Fide | hsa_Fide | rgb_Fide | LabCH*Fide | cmyn*sep_Fide | 0.0 | 1.0   | 0.744 | 0.0 | 0.832 | 1.0 | 0.0 | 0.254 | 456  | 72.2  | 34.4 | 80.0 | 25.4                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0/648                                                                                                                                         | R00Y_100_100de | 1.0      | 0.0      | 1.0      | 0.5      | 390        | 1.0           | 0.0 | 0.166 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.5 | 59.2  | 51.6 | 78.6 | 41.0                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/666                                                                                                                                         | R25Y_100_100de | 1.0      | 0.25     | 1.0      | 0.5      | 44         | 1.0           | 0.0 | 0.398 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 60.2 | 68.2  | 63.4 | 74.1 | 58.8                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2/684                                                                                                                                         | R50Y_100_100de | 1.0      | 0.5      | 1.0      | 0.5      | 60         | 1.0           | 0.0 | 0.604 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 70.9 | 75.9  | 77.9 | 77.9 | 76.7                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/702                                                                                                                                         | R75Y_100_100de | 1.0      | 1.0      | 1.0      | 0.5      | 90         | 1.0           | 0.0 | 0.878 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 83.6 | 90.4  | 90.4 | 90.4 | 92.3                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4/720                                                                                                                                         | Y00G_100_100de | 0.75     | 1.0      | 0.0      | 0.5      | 104        | 1.0           | 0.0 | 0.605 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 74.5 | -25.0 | 74.3 | 78.4 | 108.6                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5/558                                                                                                                                         | Y25G_100_100de | 0.5      | 1.0      | 0.0      | 0.5      | 120        | 1.0           | 0.0 | 0.322 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 62.6 | -40.9 | 53.8 | 67.6 | 127.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6/396                                                                                                                                         | Y50G_100_100de | 0.25     | 1.0      | 0.0      | 0.5      | 136        | 1.0           | 0.0 | 0.108 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 54.1 | -55.5 | 37.5 | 67.0 | 145.9                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7/234                                                                                                                                         | Y75G_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 150        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8/72                                                                                                                                          | G00B_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 180        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9/72                                                                                                                                          | G25B_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 180        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10/76                                                                                                                                         | G50B_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 210        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11/80                                                                                                                                         | G75B_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 240        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12/44                                                                                                                                         | G90B_100_100de | 0.0      | 1.0      | 0.0      | 0.5      | 270        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13/8                                                                                                                                          | B00M_100_100de | 0.0      | 0.0      | 1.0      | 0.5      | 270        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14/332                                                                                                                                        | B25R_100_100de | 0.5      | 0.0      | 1.0      | 0.5      | 300        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15/652                                                                                                                                        | B50R_100_100de | 1.0      | 0.0      | 1.0      | 0.5      | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16/652                                                                                                                                        | B75R_100_100de | 1.0      | 0.0      | 1.0      | 0.5      | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17/648                                                                                                                                        | R00Y_100_100de | 1.0      | 0.0      | 1.0      | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18/688                                                                                                                                        | R00Y_100_050de | 1.0      | 0.5      | 1.0      | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19/706                                                                                                                                        | R25Y_100_050de | 1.0      | 0.75     | 1.0      | 0.5      | 60         | 1.0           | 0.0 | 0.398 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 60.2 | 68.2  | 63.4 | 74.1 | 58.8                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20/724                                                                                                                                        | Y00G_100_050de | 1.0      | 1.0      | 0.5      | 1.0      | 90         | 1.0           | 0.0 | 0.878 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 83.6 | 90.4  | 90.4 | 90.4 | 92.3                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21/562                                                                                                                                        | Y25G_100_050de | 0.75     | 1.0      | 0.5      | 0.75     | 120        | 1.0           | 0.0 | 0.605 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 74.5 | -25.0 | 74.3 | 78.4 | 108.6                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22/400                                                                                                                                        | G00B_100_050de | 0.5      | 1.0      | 0.5      | 0.75     | 150        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23/404                                                                                                                                        | G50B_100_050de | 0.5      | 1.0      | 0.5      | 0.75     | 210        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24/368                                                                                                                                        | B00R_100_050de | 0.5      | 1.0      | 0.5      | 0.75     | 270        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25/692                                                                                                                                        | B50R_100_050de | 1.0      | 0.5      | 1.0      | 0.5      | 330        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26/688                                                                                                                                        | R00Y_100_050de | 1.0      | 0.5      | 1.0      | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27/506                                                                                                                                        | R00Y_075_050de | 0.75     | 0.25     | 0.75     | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28/524                                                                                                                                        | R50Y_075_050de | 0.75     | 0.25     | 0.75     | 0.5      | 60         | 1.0           | 0.0 | 0.398 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 60.2 | 68.2  | 63.4 | 74.1 | 58.8                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29/542                                                                                                                                        | Y00G_075_050de | 0.75     | 0.25     | 0.75     | 0.5      | 104        | 1.0           | 0.0 | 0.605 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 74.5 | -25.0 | 74.3 | 78.4 | 108.6                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30/380                                                                                                                                        | Y50G_075_050de | 0.5      | 0.75     | 0.25     | 0.5      | 120        | 1.0           | 0.0 | 0.322 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 62.6 | -40.9 | 53.8 | 67.6 | 127.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31/218                                                                                                                                        | G00B_075_050de | 0.25     | 0.75     | 0.25     | 0.5      | 150        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32/222                                                                                                                                        | G50B_075_050de | 0.25     | 0.75     | 0.25     | 0.5      | 210        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33/186                                                                                                                                        | B00R_075_050de | 0.25     | 0.75     | 0.25     | 0.5      | 270        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34/510                                                                                                                                        | B50R_075_050de | 0.75     | 0.25     | 0.75     | 0.5      | 330        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35/506                                                                                                                                        | R00Y_075_050de | 0.75     | 0.25     | 0.75     | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36/324                                                                                                                                        | R00Y_050_050de | 0.5      | 0.0      | 0.5      | 0.5      | 390        | 1.0           | 0.0 | 0.127 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37/342                                                                                                                                        | R50Y_050_050de | 0.5      | 0.25     | 0.5      | 0.5      | 60         | 1.0           | 0.0 | 0.398 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 60.2 | 68.2  | 63.4 | 74.1 | 58.8                                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38/360                                                                                                                                        | Y00G_050_050de | 0.5      | 0.5      | 0.25     | 0.5      | 104        | 1.0           | 0.0 | 0.605 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 74.5 | -25.0 | 74.3 | 78.4 | 108.6                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39/198                                                                                                                                        | Y50G_050_050de | 0.25     | 0.5      | 0.25     | 0.5      | 120        | 1.0           | 0.0 | 0.322 | 1.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 62.6 | -40.9 | 53.8 | 67.6 | 127.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40/36                                                                                                                                         | G00B_050_050de | 0.0      | 0.5      | 0.25     | 0.5      | 150        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41/40                                                                                                                                         | G50B_050_050de | 0.0      | 0.5      | 0.25     | 0.5      | 210        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42/4                                                                                                                                          | B00R_050_050de | 0.0      | 0.5      | 0.25     | 0.5      | 270        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43/328                                                                                                                                        | B50R_050_050de | 0.5      | 0.0      | 0.5      | 0.5      | 330        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44/324                                                                                                                                        | R00Y_050_050de | 0.5      | 0.0      | 0.5      | 0.5      | 390        | 1.0           | 0.0 | 0.151 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 50.6 | -62.1 | 19.9 | 65.2 | 162.2                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45/0                                                                                                                                          | NW_000de       | 0.0      | 0.0      | 0.0      | 0.0      | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46/91                                                                                                                                         | NW_015de       | 0.125    | 0.125    | 0.125    | 0.125    | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47/182                                                                                                                                        | NW_025de       | 0.25     | 0.25     | 0.25     | 0.25     | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48/273                                                                                                                                        | NW_030de       | 0.375    | 0.375    | 0.375    | 0.375    | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49/364                                                                                                                                        | NW_035de       | 0.5      | 0.5      | 0.5      | 0.5      | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50/455                                                                                                                                        | NW_050de       | 0.625    | 0.625    | 0.625    | 0.625    | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51/546                                                                                                                                        | NW_055de       | 0.75     | 0.75     | 0.75     | 0.75     | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52/637                                                                                                                                        | NW_060de       | 0.875    | 0.875    | 0.875    | 0.875    | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53/728                                                                                                                                        | NW_100de       | 1.0      | 1.0      | 1.0      | 1.0      | 360        | 1.0           | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0 | 0.0   | 95.6 | 0.0   | 0.0  | 0.0  | 0.0                                                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





| n   | HIC <sup>†</sup> z <sub>de</sub> | rgb <sup>†</sup> z <sub>de</sub> | lcl <sup>†</sup> z <sub>de</sub> | h <sub>aa</sub> <sup>†</sup> z <sub>de</sub> | rgb <sup>†</sup> z <sub>de</sub> | LaCh <sup>†</sup> z <sub>de</sub> | cmym <sup>†</sup> z <sub>de</sub> | delta |
|-----|----------------------------------|----------------------------------|----------------------------------|----------------------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-------|
| 81  | ROOY_012_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 330                               | 0.0                               | 25.4  |
| 82  | B00Y_012_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 390                               | 0.0                               | 34.4  |
| 83  | B50Y_025_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 330                               | 0.0                               | 34.4  |
| 84  | B15R_037_037z <sub>de</sub>      | 0.125                            | 0.0                              | 0.026                                        | 0.25                             | 5.9                               | -3.6                              | 6.9   |
| 85  | B11R_050_050z <sub>de</sub>      | 0.125                            | 0.0                              | 0.093                                        | 0.375                            | 27.5                              | 5.4                               | -15.0 |
| 86  | B09R_062_062z <sub>de</sub>      | 0.125                            | 0.0                              | 0.151                                        | 0.5                              | 29.5                              | 5.4                               | -25.2 |
| 87  | B07R_075_075z <sub>de</sub>      | 0.125                            | 0.0                              | 0.209                                        | 0.625                            | 31.5                              | 5.4                               | -30.2 |
| 88  | B06R_087_087z <sub>de</sub>      | 0.125                            | 0.0                              | 0.267                                        | 0.75                             | 33.6                              | 5.4                               | -35.2 |
| 89  | B05R_100_100z <sub>de</sub>      | 0.125                            | 0.0                              | 0.321                                        | 0.875                            | 35.4                              | 5.7                               | -35.2 |
| 90  | Y00G_012_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.378                                        | 1.0                              | 37.4                              | 5.9                               | -40.2 |
| 91  | NW_012z <sub>de</sub>            | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 92  | B00R_025_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 93  | B00R_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 94  | B00R_050_037z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 95  | B00R_062_050z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 96  | B00R_075_062z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 97  | B00R_087_075z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 98  | B00R_100_087z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 99  | Y50G_025_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 100 | G00B_025_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 101 | G50B_025_012z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 102 | G00B_050_037z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 103 | G00B_062_050z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 104 | G00B_075_062z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 105 | G00B_100_087z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 106 | G02B_087_075z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 107 | G02B_087_075z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 108 | G68B_037_037z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 109 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 110 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 111 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 112 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 113 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 114 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 115 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 116 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 117 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 118 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 119 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 120 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |
| 121 | G50B_037_025z <sub>de</sub>      | 0.125                            | 0.0                              | 0.125                                        | 0.062                            | 90                                | 0.0                               | 0.0   |

















http://130.149.60.45/~farbmetrik/QS28/QS28LOFP.PDF /PS; 3D-linealización  
F: 3D-linealización QS28/QS28LOFP.DAT en archivo (F), página 29/33

| n   | HC*File        | rgb*File | Lab*File | rgb*File | Lab*File | cmyn*SepFile | rgb*File | Lab*File | delta |
|-----|----------------|----------|----------|----------|----------|--------------|----------|----------|-------|
| 729 | NW_100.00e     | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 730 | G50B_100.0124e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 731 | G50B_100.0254e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 732 | G50B_100.0374e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 733 | G50B_100.0504e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 734 | G50B_100.0624e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 735 | G50B_100.0744e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 736 | G50B_100.0864e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 737 | G50B_100.0984e | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 738 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 739 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 740 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 741 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 742 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 743 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 744 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 745 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 746 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 747 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 748 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 749 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 750 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 751 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 752 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 753 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 754 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 755 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 756 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 757 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 758 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 759 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 760 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 761 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 762 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 763 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 764 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 765 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 766 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 767 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 768 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 769 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 770 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 771 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 772 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 773 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 774 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 775 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 776 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 777 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 778 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 779 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 780 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 781 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 782 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 783 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 784 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 785 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 786 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 787 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 788 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 789 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 790 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 791 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 792 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 793 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 794 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 795 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 796 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 797 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 798 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 799 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 800 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 801 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 802 | ROY_100.0124e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 803 | ROY_100.0254e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 804 | ROY_100.0374e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 805 | ROY_100.0504e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 806 | ROY_100.0624e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 807 | ROY_100.0744e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 808 | ROY_100.0864e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |
| 809 | ROY_100.0984e  | 0.875    | 1.0      | 1.0      | 95.6     | 0.0          | 0.0      | 95.6     | 0.0   |

entrada: rgb/cmyk -> rgbd  
salida: 3D-linealización a cmy0\* de

gráfico TUB-QS28; código de tono: H\*=R75Ye  
colores y diferencia en color, ΔE\*

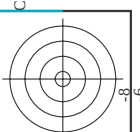






TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)

TUB material: code=rha4ta



http://130.149.60.45/~farbmetrik/QS28/QS28L0FP.PDF /.PS; 3D-linealización  
F: 3D-linealización QS28/QS28L30FP.DAT en archivo (F), página 32/33

entrada: rgb/cmyk -> rgbd  
salida: 3D-linealización a cmy0\* de

| n    | HC*File  | rgb_File | icL_File | hsa_File | rgb*File | LabCH*File | cmy0*_sep.File | hsa*de | rgb*de | LabCH*de |
|------|----------|----------|----------|----------|----------|------------|----------------|--------|--------|----------|
| 972  | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 973  | NW_012de | 0.125    | 0.125    | 0.125    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 974  | NW_025de | 0.25     | 0.25     | 0.25     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 975  | NW_037de | 0.375    | 0.375    | 0.375    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 976  | NW_050de | 0.5      | 0.5      | 0.5      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 977  | NW_062de | 0.625    | 0.625    | 0.625    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 978  | NW_075de | 0.75     | 0.75     | 0.75     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 979  | NW_087de | 0.875    | 0.875    | 0.875    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 980  | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 981  | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 982  | NW_012de | 0.125    | 0.125    | 0.125    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 983  | NW_025de | 0.25     | 0.25     | 0.25     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 984  | NW_037de | 0.375    | 0.375    | 0.375    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 985  | NW_050de | 0.5      | 0.5      | 0.5      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 986  | NW_062de | 0.625    | 0.625    | 0.625    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 987  | NW_075de | 0.75     | 0.75     | 0.75     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 988  | NW_087de | 0.875    | 0.875    | 0.875    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 989  | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 990  | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 991  | NW_012de | 0.125    | 0.125    | 0.125    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 992  | NW_025de | 0.25     | 0.25     | 0.25     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 993  | NW_037de | 0.375    | 0.375    | 0.375    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 994  | NW_050de | 0.5      | 0.5      | 0.5      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 995  | NW_062de | 0.625    | 0.625    | 0.625    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 996  | NW_075de | 0.75     | 0.75     | 0.75     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 997  | NW_087de | 0.875    | 0.875    | 0.875    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 998  | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 999  | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1000 | NW_012de | 0.125    | 0.125    | 0.125    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1001 | NW_025de | 0.25     | 0.25     | 0.25     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1002 | NW_037de | 0.375    | 0.375    | 0.375    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1003 | NW_050de | 0.5      | 0.5      | 0.5      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1004 | NW_062de | 0.625    | 0.625    | 0.625    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1005 | NW_075de | 0.75     | 0.75     | 0.75     | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1006 | NW_087de | 0.875    | 0.875    | 0.875    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1007 | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1008 | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1009 | NW_006de | 0.066    | 0.066    | 0.066    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1010 | NW_013de | 0.133    | 0.133    | 0.133    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1011 | NW_020de | 0.2      | 0.2      | 0.2      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1012 | NW_026de | 0.266    | 0.266    | 0.266    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1013 | NW_033de | 0.333    | 0.333    | 0.333    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1014 | NW_040de | 0.4      | 0.4      | 0.4      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1015 | NW_046de | 0.466    | 0.466    | 0.466    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1016 | NW_053de | 0.533    | 0.533    | 0.533    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1017 | NW_060de | 0.6      | 0.6      | 0.6      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1018 | NW_066de | 0.666    | 0.666    | 0.666    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1019 | NW_073de | 0.734    | 0.734    | 0.734    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1020 | NW_080de | 0.8      | 0.8      | 0.8      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1021 | NW_086de | 0.866    | 0.866    | 0.866    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1022 | NW_093de | 0.933    | 0.933    | 0.933    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1023 | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1024 | NW_000de | 0.066    | 0.066    | 0.066    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1025 | NW_013de | 0.133    | 0.133    | 0.133    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1026 | NW_020de | 0.2      | 0.2      | 0.2      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1027 | NW_026de | 0.266    | 0.266    | 0.266    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1028 | NW_033de | 0.333    | 0.333    | 0.333    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1029 | NW_040de | 0.4      | 0.4      | 0.4      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1030 | NW_046de | 0.466    | 0.466    | 0.466    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1031 | NW_053de | 0.533    | 0.533    | 0.533    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1032 | NW_060de | 0.6      | 0.6      | 0.6      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1033 | NW_066de | 0.666    | 0.666    | 0.666    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1034 | NW_073de | 0.734    | 0.734    | 0.734    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1035 | NW_080de | 0.8      | 0.8      | 0.8      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1036 | NW_086de | 0.866    | 0.866    | 0.866    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1037 | NW_093de | 0.933    | 0.933    | 0.933    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1038 | NW_100de | 1.0      | 1.0      | 1.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1039 | NW_000de | 0.0      | 0.0      | 0.0      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1040 | NW_006de | 0.066    | 0.066    | 0.066    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1041 | NW_013de | 0.133    | 0.133    | 0.133    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1042 | NW_020de | 0.2      | 0.2      | 0.2      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1043 | NW_026de | 0.266    | 0.266    | 0.266    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1044 | NW_033de | 0.333    | 0.333    | 0.333    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1045 | NW_040de | 0.4      | 0.4      | 0.4      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1046 | NW_046de | 0.466    | 0.466    | 0.466    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1047 | NW_053de | 0.533    | 0.533    | 0.533    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1048 | NW_060de | 0.6      | 0.6      | 0.6      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1049 | NW_066de | 0.666    | 0.666    | 0.666    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1050 | NW_073de | 0.734    | 0.734    | 0.734    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1051 | NW_080de | 0.8      | 0.8      | 0.8      | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |
| 1052 | NW_086de | 0.866    | 0.866    | 0.866    | 0.0      | 24.3       | 0.0            | 360    | 1.0    | 95.6     |

QS280-7N, 32/33-F

gráfico TUB-QS28; código de tono: H\*=R75Ye  
colores y diferencia en color,  $\Delta E^*$

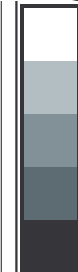
vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28L0FP.PDF> /.PS; 3D-linealización  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>



TUB matrícula: 20130201-QS28/QS28L0FP.PDF /.PS TUB material: code=rha4ta  
aplicación para la medida salida en la impresión offset, separación cmy0\* (CMY0)

vea archivos semejantes: <http://130.149.60.45/~farbmetrik/QS28/QS28L0FP.PDF>  
información técnica: <http://www.ps.bam.de> o <http://130.149.60.45/~farbmetrik>

entrada: *rgb/cmyk* -> *rgbde*  
salida: 3D-linealización a *cmy0\** de



| n    | H1C*Fide | rgb_Fide | icT_Fide | hsa_Fide | rgb*Fide | LabCH*Fide | cmy0*_sep_Fide | 0.099 | 0.0 | rgb*Fide | hsa_Fide | LabCH*Fide | delta |
|------|----------|----------|----------|----------|----------|------------|----------------|-------|-----|----------|----------|------------|-------|
| 1053 | NW_086de | 0.866    | 0.866    | 0.866    | 0.866    | 86.6       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1054 | NW_093de | 0.933    | 0.933    | 0.933    | 0.933    | 93.3       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1055 | NW_100de | 1.0      | 1.0      | 1.0      | 1.0      | 100.0      | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1056 | NW_006de | 0.066    | 0.066    | 0.066    | 0.066    | 6.6        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1057 | NW_013de | 0.133    | 0.133    | 0.133    | 0.133    | 13.3       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1058 | NW_020de | 0.2      | 0.2      | 0.2      | 0.2      | 20.0       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1059 | NW_026de | 0.266    | 0.266    | 0.266    | 0.266    | 26.6       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1060 | NW_033de | 0.333    | 0.333    | 0.333    | 0.333    | 33.3       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1061 | NW_040de | 0.4      | 0.4      | 0.4      | 0.4      | 40.0       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1062 | NW_046de | 0.466    | 0.466    | 0.466    | 0.466    | 46.6       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1063 | NW_053de | 0.533    | 0.533    | 0.533    | 0.533    | 53.3       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1064 | NW_060de | 0.6      | 0.6      | 0.6      | 0.6      | 60.0       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1065 | NW_066de | 0.666    | 0.666    | 0.666    | 0.666    | 66.6       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1066 | NW_073de | 0.734    | 0.734    | 0.734    | 0.734    | 73.4       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1067 | NW_080de | 0.8      | 0.8      | 0.8      | 0.8      | 80.0       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1068 | NW_086de | 0.866    | 0.866    | 0.866    | 0.866    | 86.6       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1069 | NW_093de | 0.933    | 0.933    | 0.933    | 0.933    | 93.3       | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1070 | NW_100de | 1.0      | 1.0      | 1.0      | 1.0      | 100.0      | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1071 | NW_006de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1072 | NW_013de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1073 | NW_020de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1074 | NW_026de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1075 | NW_033de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1076 | NW_040de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1077 | NW_046de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1078 | NW_053de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |
| 1079 | NW_060de | 0.0      | 0.0      | 0.0      | 0.0      | 0.0        | 0.0            | 0.0   | 0.0 | 1.0      | 360      | 95.6       | 0.0   |

gráfico TUB-QS28; código de tono: H\*e=R75Y e  
colores y diferencia en color, ΔE\*