

# Input: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 24/360 = 0.066$

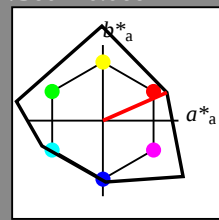
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 47 92 24

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |       |
|---------|-------|------|-------|
| LAB*LAB | 95.41 | 0.0  | -0.01 |
| LAB*LAB | 95.41 | 0.0  | 0.0   |
| LAB*LAB | 99.99 | 0.01 | 0.0   |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 1.0 | 0.0 | 0.0 |
| lab*lab | 0.0 | 1.0 | 0.0 |
| lab*lab | 0.0 | 0.0 | 1.0 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.0 | 0.0 | 0.0 |
| lab*trj | 0.0 | 0.0 | 0.0 |
| lab*trj | 0.0 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 1.0 | 0.75 | 0.75 | (1.0) |
| olvi3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | (1.0) |
| olvi4* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |       |       |       |
|---------|-------|-------|-------|
| LAB*LAB | 83.34 | 21.17 | 9.31  |
| LAB*LAB | 83.34 | 21.15 | 9.31  |
| LAB*LAB | 87.5  | 23.11 | 23.75 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.857 | 0.229 | 0.101 |
| lab*lab | 0.875 | 0.225 | 0.066 |
| lab*lab | 0.875 | 0.225 | 0.066 |

relative Natural Colour (NC)

|         |       |       |        |
|---------|-------|-------|--------|
| lab*trj | 0.857 | 0.225 | -0.005 |
| lab*trj | 0.875 | 0.225 | 0.996  |
| lab*trj | 0.0   | 0.25  | 0.998  |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olvi3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0  | 0.75 | 0.75 | (1.0) |
| olvi4* | 0.0  | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.0  | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |       |       |       |
|---------|-------|-------|-------|
| LAB*LAB | 62.24 | 21.2  | 9.32  |
| LAB*LAB | 62.24 | 21.16 | 9.31  |
| LAB*LAB | 62.5  | 23.12 | 23.75 |

relative CIELAB lab\*

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.617 | 0.229 | 0.101 |
| lab*lab | 0.625 | 0.225 | 0.066 |
| lab*lab | 0.625 | 0.225 | 0.066 |

relative Natural Colour (NC)

|         |       |       |        |
|---------|-------|-------|--------|
| lab*trj | 0.617 | 0.225 | -0.005 |
| lab*trj | 0.625 | 0.225 | 0.996  |
| lab*trj | 0.0   | 0.25  | 0.998  |

relative Inform. Technology (IT)

|        |      |      |      |       |
|--------|------|------|------|-------|
| olvi3* | 0.75 | 0.75 | 0.75 | (1.0) |
| olvi3* | 0.25 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0  | 0.75 | 0.75 | (1.0) |
| olvi4* | 0.0  | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.0  | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| olvi3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |      |     |
|---------|-------|------|-----|
| LAB*LAB | 53.21 | 0.04 | 0.0 |
| LAB*LAB | 53.21 | 0.0  | 0.0 |
| LAB*LAB | 50.0  | 0.01 | 0.0 |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 0.5 | 0.5 | 0.0 |
| lab*lab | 0.5 | 0.0 | 0.5 |
| lab*lab | 0.5 | 0.0 | 0.5 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |
| lab*trj | 0.5 | 0.0 | 0.0 |

## NCS11; adapted (a) CIELAB data

$L^*=L^*_a$   $a^*_a$   $b^*_a$   $C^*_{ab,a}$   $h^*_{ab,a}$

|        |       |         |        |        |     |
|--------|-------|---------|--------|--------|-----|
| RMa    | 47.15 | 84.64   | 37.25  | 92.48  | 24  |
| JMa    | 91.37 | -1.27   | 125.03 | 125.03 | 91  |
| GMa    | 63.07 | -114.28 | 25.35  | 117.06 | 167 |
| G50BMa | 59.47 | -80.6   | -33.45 | 87.28  | 203 |
| BMa    | 49.01 | 3.65    | -81.19 | 81.28  | 273 |
| B50RMa | 44.06 | 106.09  | -73.93 | 129.32 | 325 |
| NMa    | 10.99 | 0.0     | 0.0    | 0.0    | 0   |
| WMa    | 95.41 | 0.0     | 0.0    | 0.0    | 0   |
| RCIE   | 39.92 | 58.69   | 27.98  | 65.01  | 25  |
| JCIE   | 81.26 | -2.9    | 71.56  | 71.62  | 92  |
| GCIE   | 52.23 | -42.45  | 13.59  | 44.59  | 162 |
| BCIE   | 30.57 | 1.35    | -46.48 | 46.51  | 272 |

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

blackness  $n^*$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

$c^* = 0.00$

$c^* = 0.25$

$c^* = 0.50$

$c^* = 0.75$

$c^* = 1.00$

blackness  $n^*$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness  $c^*$

$c^* = 0.00$

$c^* = 0.25$

$c^* = 0.50$

$c^* = 0.75$

$c^* = 1.00$

blackness  $n^*$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

# Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 30/360 = 0.083$

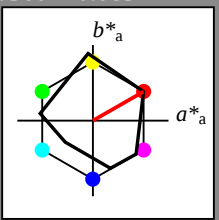
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 50 77 30

rgb\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 1.0 | 1.0 | 1.0 | (1.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 0.0 | 0.0 | 0.0 | (0.0) |

standard and adapted CIELAB

|         |       |       |      |
|---------|-------|-------|------|
| LAB*LAB | 95.41 | -0.97 | 4.75 |
| LAB*LAB | 95.41 | 0.0   | 0.0  |
| LAB*LAB | 99.99 | 0.01  | 0.0  |

relative CIELAB lab\*

|         |     |     |     |
|---------|-----|-----|-----|
| lab*lab | 1.0 | 0.0 | 0.0 |
| lab*lab | 0.0 | 1.0 | 0.0 |
| lab*lab | 0.0 | 0.0 | 1.0 |

relative Natural Colour (NC)

|         |     |     |     |
|---------|-----|-----|-----|
| lab*trj | 1.0 | 0.0 | 0.0 |
| lab*trj | 0.0 | 1.0 | 0.0 |
| lab*trj | 0.0 | 0.0 | 1.0 |

relative Inform. Technology (IT)

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olvi3* | 1.0 | 0.75 | 0.75 | (1.0) |
| olvi3* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 1.0 | 0.75 | 0.75 | (1.0) |
| olvi4* | 0.0 | 0.25 | 0.25 | (0.0) |
| olvi4* | 0.0 | 0.25 | 0.25 | (0.0) |

standard and adapted CIELAB

|         |       |      |      |
|---------|-------|------|------|
| LAB*LAB | 76.06 | -0.6 | 3.44 |
| LAB*LAB | 76.06 | 0.0  | 0.0  |
| LAB*LAB | 75.0  | 0.01 | 0.0  |

relative CIELAB lab\*

|         |      |     |     |
|---------|------|-----|-----|
| lab*lab | 0.75 | 0.0 | 0.0 |
| lab*lab | 0.75 | 0.0 | 0.0 |
| lab*lab | 0.75 | 0.0 | 0.0 |

relative Natural Colour (NC)

|         |      |     |     |
|---------|------|-----|-----|
| lab*trj | 0.75 | 0.0 | 0.0 |
| lab*trj | 0.75 | 0.0 | 0.0 |
| lab*trj | 0.75 | 0.0 | 0.0 |

|                              |       |       |       |
|------------------------------|-------|-------|-------|
| LAB*TChA                     | 87.5  | 19.29 | 29.82 |
| relative CIELAB lab*         |       |       |       |
| lab*lab                      | 0.852 | 0.217 | 0.124 |
| lab*tch                      | 0.875 | 0.25  | 0.083 |
| lab*nch                      | 0.0   | 0.25  | 0.083 |
| relative Natural Colour (NC) |       |       |       |
| lab*lrj                      | 0.852 | 0.248 | 0.03  |
| lab*tce                      | 0.875 | 0.25  | 0.019 |
| lab*nCE                      | 0.0   | 0.25  | r07j  |

## Input: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 91/360 = 0.252$

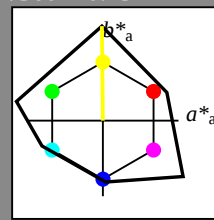
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 91 125 91

rgb\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



### NCS11; adapted (a) CIELAB data

|                    | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|---------------|---------|---------|--------------|--------------|
| RMa                | 47.15         | 84.64   | 37.25   | 92.48        | 24           |
| JMa                | 91.37         | -1.27   | 125.03  | 125.03       | 91           |
| GMa                | 63.07         | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47         | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01         | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06         | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE               | 39.92         | 58.69   | 27.98   | 65.01        | 25           |
| JCIE               | 81.26         | -2.9    | 71.56   | 71.62        | 92           |
| GCIE               | 52.23         | -42.45  | 13.59   | 44.59        | 162          |
| BCIE               | 30.57         | 1.35    | -46.48  | 46.51        | 272          |

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

## Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 94/360 = 0.261$

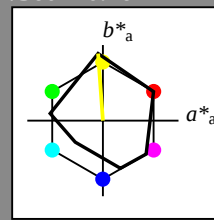
$lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 91 89 94

rgb\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$



### MRS18; adapted (a) CIELAB data

|                    | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|---------------|---------|---------|--------------|--------------|
| RMa                | 49.63         | 66.96   | 38.37   | 77.18        | 30           |
| JMa                | 90.7          | -6.36   | 88.75   | 88.98        | 94           |
| GMa                | 52.11         | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03         | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65         | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94         | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01         | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>    | 95.41         | 0.0     | 0.0     | 0.0          | 0            |
| RCIE               | 39.92         | 58.66   | 26.98   | 64.56        | 25           |
| JCIE               | 81.26         | -2.17   | 67.76   | 67.79        | 92           |
| GCIE               | 52.23         | -42.26  | 11.75   | 43.87        | 164          |
| BCIE               | 30.57         | 1.15    | -46.84  | 46.87        | 271          |

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

TE580-7, 5 step scales for constant CIELAB hue 91/360 = 0.252 (left)

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

BAM-test chart TE58; Colorimetric systems NCS11a & MRS18 input:  $olv^* setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

output:  $olv^* setrgbcolor / w^* setgray$







www.ps.bam.de/TE58/10L/L58E05FP.PS/.PDF; linearized output  
 F: Output Linearization (OL) data TE58/10L/L58E05FP.DAT in File (F)

## Input: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 325/360 = 0.903$

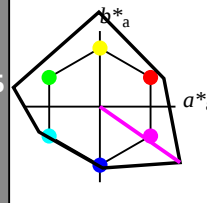
$lab^*tch$  and  $lab^*nch$

D65: hue B50R

LCH\*Ma: 44 129 325

rgb\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 149$

relative Inform. Technology (IT)  
 olv3\* 1.0 1.0 1.0 (1.0)  
 cmyn3\* 0.0 0.0 0.0 (0.0)  
 olv4\* 1.0 1.0 1.0 (1.0)  
 cmyn4\* 0.0 0.0 0.0 (0.0)  
 standard and adapted CIELAB  
 LAB\*LAB 95.41 0.0 -0.01  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHa 99.99 0.01 0.0

relative CIELAB lab\*  
 lab\*lab 1.0 0.0 0.0  
 lab\*tch 1.0 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 1.0 0.0 0.0  
 lab\*tce 1.0 0.0 0.0  
 lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.75 0.75 0.75 (1.0)  
 cmyn3\* 0.25 0.25 0.25 (0.0)  
 olv4\* 1.0 1.0 1.0 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 74.31 0.02 0.0  
 LAB\*LABa 69.73 53.03 -36.95  
 LAB\*TCHa 75.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.848 0.205 -0.142  
 lab\*tch 0.875 0.25 0.903  
 lab\*nch 0.0 0.25 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.848 0.198 -0.184  
 lab\*tce 0.875 0.25 0.903  
 lab\*nce 0.0 0.25 0.903

relative Inform. Technology (IT)  
 olv3\* 0.75 0.75 0.75 (1.0)  
 cmyn3\* 0.25 0.25 0.25 (0.0)  
 olv4\* 1.0 1.0 1.0 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 74.31 0.02 0.0  
 LAB\*LABa 69.73 53.03 -36.95  
 LAB\*TCHa 75.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.848 0.205 -0.142  
 lab\*tch 0.875 0.25 0.903  
 lab\*nch 0.0 0.25 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.848 0.198 -0.184  
 lab\*tce 0.875 0.25 0.903  
 lab\*nce 0.0 0.25 0.903

relative Inform. Technology (IT)  
 olv3\* 0.5 0.5 0.5 (0.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)  
 olv4\* 1.0 1.0 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 53.21 0.04 0.0  
 LAB\*LABa 53.21 0.0 0.0  
 LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.5 0.5 0.5 (0.0)  
 lab\*tch 0.5 0.5 0.5 (0.0)  
 lab\*nch 0.0 0.5 0.5 (0.0)  
 relative Natural Colour (NC)  
 lab\*trj 0.5 0.5 0.5 (0.0)  
 lab\*tce 0.5 0.5 0.5 (0.0)  
 lab\*nce 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 32.11 0.07 0.01  
 LAB\*LABa 32.11 0.0 0.0  
 LAB\*TCHa 25.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.25 0.25 0.25 (1.0)  
 lab\*tch 0.375 0.25 0.903  
 lab\*nch 0.0 0.25 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.348 0.198 -0.184  
 lab\*tce 0.375 0.25 0.903  
 lab\*nce 0.0 0.25 0.903

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 32.11 0.07 0.01  
 LAB\*LABa 32.11 0.0 0.0  
 LAB\*TCHa 25.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.25 0.25 0.25 (1.0)  
 lab\*tch 0.375 0.25 0.903  
 lab\*nch 0.0 0.25 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.348 0.198 -0.184  
 lab\*tce 0.375 0.25 0.903  
 lab\*nce 0.0 0.25 0.903

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 11.01 0.07 0.01  
 LAB\*LABa 11.01 0.0 0.0  
 LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 11.01 0.07 0.01  
 LAB\*LABa 11.01 0.0 0.0  
 LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 11.01 0.07 0.01  
 LAB\*LABa 11.01 0.0 0.0  
 LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 11.01 0.07 0.01  
 LAB\*LABa 11.01 0.0 0.0  
 LAB\*TCHa 0.01 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

## NCS11; adapted (a) CIELAB data

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

% Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)

olv3\* 1.0 0.5 1.0 (1.0)  
 cmyn3\* 0.0 0.5 0.0 (0.0)  
 olv4\* 1.0 0.5 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 69.73 53.03 -36.95  
 LAB\*LABa 69.73 53.03 -36.95  
 LAB\*TCHa 75.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.696 0.41 -0.285  
 lab\*tch 0.75 0.5 0.903  
 lab\*nch 0.0 0.5 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.696 0.336 -0.369  
 lab\*tce 0.75 0.5 0.903  
 lab\*nce 0.0 0.5 0.903

relative Inform. Technology (IT)

olv3\* 0.75 0.25 0.75 (1.0)  
 cmyn3\* 0.25 0.75 0.25 (0.0)  
 olv4\* 1.0 0.5 1.0 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 48.63 53.09 -36.95  
 LAB\*LABa 48.63 53.09 -36.95  
 LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.544 0.615 -0.428  
 lab\*tch 0.625 0.75 0.903  
 lab\*nch 0.0 0.75 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.544 0.504 -0.554  
 lab\*tce 0.625 0.75 0.903  
 lab\*nce 0.0 0.75 0.903

relative Inform. Technology (IT)

olv3\* 0.5 0.5 0.5 (1.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)  
 olv4\* 1.0 1.0 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 56.89 79.6 -55.43  
 LAB\*LABa 56.89 79.6 -55.43  
 LAB\*TCHa 62.5 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.544 0.615 -0.428  
 lab\*tch 0.625 0.75 0.903  
 lab\*nch 0.0 0.75 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.544 0.504 -0.554  
 lab\*tce 0.625 0.75 0.903  
 lab\*nce 0.0 0.75 0.903

relative Inform. Technology (IT)

olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 35.8 79.61 -55.43  
 LAB\*LABa 35.8 79.61 -55.43  
 LAB\*TCHa 37.5 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.294 0.615 -0.428  
 lab\*tch 0.375 0.75 0.903  
 lab\*nch 0.0 0.75 0.903  
 relative Natural Colour (NC)  
 lab\*trj 0.294 0.504 -0.554  
 lab\*tce 0.375 0.75 0.903  
 lab\*nce 0.0 0.75 0.903

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 18.02 0.5 -0.46  
 LAB\*LABa 18.02 0.5 -0.46  
 LAB\*TCHa 0.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 18.02 0.5 -0.46  
 LAB\*LABa 18.02 0.5 -0.46  
 LAB\*TCHa 0.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 18.02 0.5 -0.46  
 LAB\*LABa 18.02 0.5 -0.46  
 LAB\*TCHa 0.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

## Output: Colorimetric Reflective System MRS18

for hue  $h^* = lab^*h = 322/360 = 0.895$

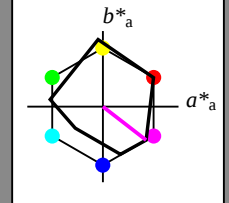
$lab^*tch$  and  $lab^*nch$

D65: hue B50R

LCH\*Ma: 35 72 322

rgb\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)  
 olv3\* 1.0 1.0 1.0 (1.0)  
 cmyn3\* 0.0 0.0 0.0 (0.0)  
 olv4\* 1.0 1.0 1.0 1.0  
 cmyn4\* 0.0 0.0 0.0 0.0  
 standard and adapted CIELAB  
 LAB\*LAB 95.41 -0.97 4.75  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHa 99.99 0.01 0.0

relative CIELAB lab\*  
 lab\*lab 1.0 0.0 0.0  
 lab\*tch 1.0 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 1.0 0.0 0.0  
 lab\*tce 1.0 0.0 0.0  
 lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.75 0.75 0.75 (1.0)  
 cmyn3\* 0.25 0.25 0.25 (0.0)  
 olv4\* 1.0 1.0 1.0 0.75  
 cmyn4\* 0.0 0.0 0.0 0.25  
 standard and adapted CIELAB  
 LAB\*LAB 76.06 -0.6 3.44  
 LAB\*LABa 69.73 53.03 -36.95  
 LAB\*TCHa 75.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.805 0.198 -0.152  
 lab\*tch 0.875 0.25 0.895  
 lab\*nch 0.0 0.25 0.895  
 relative Natural Colour (NC)  
 lab\*trj 0.805 0.162 -0.189  
 lab\*tce 0.875 0.25 0.895  
 lab\*nce 0.0 0.25 0.895

relative Inform. Technology (IT)  
 olv3\* 0.5 0.5 0.5 (1.0)  
 cmyn3\* 0.5 0.5 0.5 (0.0)  
 olv4\* 1.0 1.0 1.0 0.5  
 cmyn4\* 0.0 0.0 0.0 0.5  
 standard and adapted CIELAB  
 LAB\*LAB 76.06 -0.6 3.44  
 LAB\*LABa 69.73 53.03 -36.95  
 LAB\*TCHa 75.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.5 0.5 0.5 (1.0)  
 lab\*tch 0.5 0.5 0.5 (1.0)  
 lab\*nch 0.0 0.5 0.5 (0.0)  
 relative Natural Colour (NC)  
 lab\*trj 0.5 0.5 0.5 (1.0)  
 lab\*tce 0.5 0.5 0.5 (1.0)  
 lab\*nce 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 56.71 0.23 2.14  
 LAB\*LABa 44.06 106.07 -73.92  
 LAB\*TCHa 50.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.392 0.673 -0.739  
 lab\*tch 0.5 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.392 0.673 -0.739  
 lab\*tce 0.5 0.0 0.0  
 lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 18.02 0.5 -0.46  
 LAB\*LABa 18.02 0.5 -0.46  
 LAB\*TCHa 0.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0.0 0.0 (1.0)  
 lab\*nch 1.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.0 0.0 0.0 (1.0)  
 lab\*tce 0.0 0.0 0.0 (1.0)  
 lab\*nce 1.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.25 0.25 0.25 (1.0)  
 cmyn3\* 0.75 0.75 0.75 (0.0)  
 olv4\* 1.0 1.0 1.0 0.25  
 cmyn4\* 0.0 0.0 0.0 0.75  
 standard and adapted CIELAB  
 LAB\*LAB 37.36 0.01 -  
 LAB\*LABa 37.36 0.0 0.0  
 LAB\*TCHa 25.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.25 0.0 0.0  
 lab\*tch 0.25 0.0 0.0  
 lab\*nch 0.0 0.0 0.0  
 relative Natural Colour (NC)  
 lab\*trj 0.25 0.0 0.0  
 lab\*tce 0.25 0.0 0.0  
 lab\*nce 0.0 0.0 0.0

relative Inform. Technology (IT)  
 olv3\* 0.0 0.0 0.0 (1.0)  
 cmyn3\* 1.0 1.0 1.0 (0.0)  
 olv4\* 1.0 1.0 1.0 0.0  
 cmyn4\* 0.0 0.0 0.0 1.0  
 standard and adapted CIELAB  
 LAB\*LAB 18.02 0.5 -0.46  
 LAB\*LABa 18.02 0.5 -0.46  
 LAB\*TCHa 0.0 0.01 -

relative CIELAB lab\*  
 lab\*lab 0.0 0.0 0.0 (1.0)  
 lab\*tch 0.0 0



### Input: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 92/360 = 0.256$

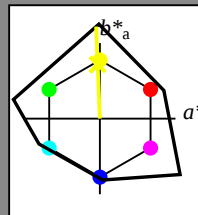
$lab^*ch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 90 122 92

rgb\*Ma: 0.97 1.0 0.0

triangle lightness  $t^*$



### NCS11; adapted (a) CIELAB data

|        | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-------------|---------|---------|--------------|--------------|
| RMa    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| JMa    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| GMa    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50BMa | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| BMa    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50RMa | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| NMa    | 10.99       | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92       | 58.69   | 27.98   | 65.01        | 25           |
| JCIE   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| GCIE   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| BCIE   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 -0.01  
LAB\*Lab 95.41 0.0 0.0  
LAB\*TCa 99.99 0.01 0.0

relative Inform. Technology (IT)  
olvi3\* 0.992 1.0 0.75 (1.0)  
cmyn3\* 0.008 0.0 0.25 (0.0)  
olvi4\* 0.992 1.0 0.75 (1.0)  
cmyn4\* 0.008 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 94.16 -1.21 30.44  
LAB\*Lab 94.16 -1.22 30.44  
LAB\*TCa 87.5 30.47 92.31

relative Inform. Technology (IT)  
olvi3\* 0.985 -0.009 0.25  
cmyn3\* 0.016 0.0 0.5 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.016 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 92.52 -2.44 60.89  
LAB\*Lab 92.52 -2.46 60.89  
LAB\*TCa 75.0 60.94 92.32

relative Inform. Technology (IT)  
olvi3\* 0.984 1.0 0.5 (1.0)  
cmyn3\* 0.016 0.0 0.5 (0.0)  
olvi4\* 0.984 1.0 0.5 (1.0)  
cmyn4\* 0.016 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 92.52 -2.44 60.89  
LAB\*Lab 92.52 -2.46 60.89  
LAB\*TCa 75.0 60.94 92.32

relative Inform. Technology (IT)  
olvi3\* 0.976 1.0 0.5 (1.0)  
cmyn3\* 0.030 0.0 1.0 (0.0)  
olvi4\* 0.976 1.0 0.5 (1.0)  
cmyn4\* 0.030 0.0 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 91.68 -3.68 91.34  
LAB\*Lab 91.68 -3.69 91.34  
LAB\*TCa 62.5 91.41 92.32

relative Inform. Technology (IT)  
olvi3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 74.31 0.02 0.0  
LAB\*Lab 74.31 0.02 0.0  
LAB\*TCa 75.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.742 0.75 0.5 (1.0)  
cmyn3\* 0.258 0.25 0.25 (0.0)  
olvi4\* 0.992 1.0 0.75 (1.0)  
cmyn4\* 0.008 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 73.07 -1.2 30.45  
LAB\*Lab 73.07 -1.23 30.45  
LAB\*TCa 62.5 30.47 92.33

relative Inform. Technology (IT)  
olvi3\* 0.734 0.75 0.5 (1.0)  
cmyn3\* 0.266 0.25 0.75 (0.0)  
olvi4\* 0.984 1.0 0.5 (1.0)  
cmyn4\* 0.016 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 71.83 -2.44 60.9  
LAB\*Lab 71.83 -2.47 60.89  
LAB\*TCa 50.0 60.94 92.33

relative Inform. Technology (IT)  
olvi3\* 0.726 0.75 0.0 (1.0)  
cmyn3\* 0.274 0.25 1.0 (0.0)  
olvi4\* 0.976 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 70.58 -3.68 91.33  
LAB\*Lab 70.58 -3.71 91.33  
LAB\*TCa 37.51 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.726 0.75 0.0 (1.0)  
cmyn3\* 0.274 0.25 1.0 (0.0)  
olvi4\* 0.976 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 70.58 -3.68 91.33  
LAB\*Lab 70.58 -3.71 91.33  
LAB\*TCa 37.51 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.21 0.04 0.0  
LAB\*Lab 53.21 0.04 0.0  
LAB\*TCa 50.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.492 0.5 0.25 (1.0)  
cmyn3\* 0.508 0.5 0.75 (0.0)  
olvi4\* 0.992 1.0 0.75 (1.0)  
cmyn4\* 0.008 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 51.96 -1.18 30.46  
LAB\*Lab 51.96 -1.23 30.45  
LAB\*TCa 37.5 30.47 92.33

relative Inform. Technology (IT)  
olvi3\* 0.484 0.5 0.0 (1.0)  
cmyn3\* 0.516 0.5 1.0 (0.0)  
olvi4\* 0.984 1.0 0.5 (1.0)  
cmyn4\* 0.016 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 50.72 -2.42 60.89  
LAB\*Lab 50.72 -2.47 60.88  
LAB\*TCa 25.01 60.93 92.33

relative Inform. Technology (IT)  
olvi3\* 0.476 0.5 0.0 (1.0)  
cmyn3\* 0.524 0.5 1.0 (0.0)  
olvi4\* 0.976 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 49.48 -3.68 91.33  
LAB\*Lab 49.48 -3.71 91.33  
LAB\*TCa 12.5 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.476 0.5 0.0 (1.0)  
cmyn3\* 0.524 0.5 1.0 (0.0)  
olvi4\* 0.976 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 49.48 -3.68 91.33  
LAB\*Lab 49.48 -3.71 91.33  
LAB\*TCa 12.5 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 32.11 0.07 0.01  
LAB\*Lab 32.11 0.07 0.01  
LAB\*TCa 25.0 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.242 0.25 0.25 (1.0)  
cmyn3\* 0.758 0.75 1.0 (0.0)  
olvi4\* 0.982 1.0 0.75 (1.0)  
cmyn4\* 0.008 0.0 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 30.86 -1.17 30.45  
LAB\*Lab 30.86 -1.23 30.43  
LAB\*TCa 12.5 30.46 92.33

relative Inform. Technology (IT)  
olvi3\* 0.234 0.25 0.0 (1.0)  
cmyn3\* 0.766 0.75 1.0 (0.0)  
olvi4\* 0.974 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 29.58 -3.68 91.33  
LAB\*Lab 29.58 -3.71 91.33  
LAB\*TCa 0.0 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.234 0.25 0.0 (1.0)  
cmyn3\* 0.766 0.75 1.0 (0.0)  
olvi4\* 0.974 1.0 0.5 (1.0)  
cmyn4\* 0.024 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 29.58 -3.68 91.33  
LAB\*Lab 29.58 -3.71 91.33  
LAB\*TCa 0.0 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.226 0.25 0.0 (1.0)  
cmyn3\* 0.774 0.75 1.0 (0.0)  
olvi4\* 0.966 1.0 0.5 (1.0)  
cmyn4\* 0.030 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 28.30 -3.68 91.33  
LAB\*Lab 28.30 -3.71 91.33  
LAB\*TCa 0.0 91.4 92.33

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*Lab 11.01 0.07 0.01  
LAB\*TCa 0.01 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 11.01 0.07 0.01  
LAB\*Lab 11.01 0.07 0.01  
LAB\*TCa 0.01 0.01 -

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

relative Inform. Technology (IT)  
olvi3\* 0.235 -0.009 0.25  
cmyn3\* 0.125 0.25 0.25 (0.0)  
olvi4\* 0.985 1.0 0.5 (1.0)  
cmyn4\* 0.015 0.0 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 10.99 0.0 0.0  
LAB\*Lab 10.99 0.0 0.0  
LAB\*TCa 0.0 0.0 0.0

TE580-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart TE58; Colorimetric systems NCS11a & MRS18 input:  $olv^* setrgbcolor$

D65: 2 coordinate data of 5 step colour scales for 10 hues

output:  $olv^* setrgbcolor / w^* setgray$

1. Self-Reflection: Self-reflection is a process of looking back on one's own actions, thoughts, and feelings. It involves taking time to think about what you have done, how you felt about it, and what you have learned from the experience.

# Input: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 272/360 = 0.755$

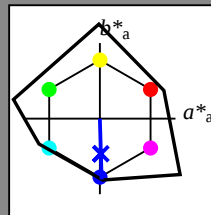
$lab^*tch$  and  $lab^*nch$

D65: hue B

LCH\*Ma: 49 80 272

rgb\*Ma: 0.0 0.02 1.0

triangle lightness  $t^*$



% Gamut

$u^*_{rel} = 149$

| relative Inform. Technology (IT) |     |     |
|----------------------------------|-----|-----|
| olvi3*                           | 1.0 | 1.0 |
| olvi4*                           | 1.0 | 1.0 |
| olvi5*                           | 1.0 | 1.0 |
| olvi6*                           | 1.0 | 1.0 |
| olvi7*                           | 1.0 | 1.0 |
| olvi8*                           | 1.0 | 1.0 |
| olvi9*                           | 1.0 | 1.0 |
| olvi10*                          | 1.0 | 1.0 |
| olvi11*                          | 1.0 | 1.0 |
| olvi12*                          | 1.0 | 1.0 |
| olvi13*                          | 1.0 | 1.0 |
| olvi14*                          | 1.0 | 1.0 |
| olvi15*                          | 1.0 | 1.0 |
| olvi16*                          | 1.0 | 1.0 |
| olvi17*                          | 1.0 | 1.0 |
| olvi18*                          | 1.0 | 1.0 |
| olvi19*                          | 1.0 | 1.0 |
| olvi20*                          | 1.0 | 1.0 |
| olvi21*                          | 1.0 | 1.0 |
| olvi22*                          | 1.0 | 1.0 |
| olvi23*                          | 1.0 | 1.0 |
| olvi24*                          | 1.0 | 1.0 |
| olvi25*                          | 1.0 | 1.0 |
| olvi26*                          | 1.0 | 1.0 |
| olvi27*                          | 1.0 | 1.0 |
| olvi28*                          | 1.0 | 1.0 |
| olvi29*                          | 1.0 | 1.0 |
| olvi30*                          | 1.0 | 1.0 |
| olvi31*                          | 1.0 | 1.0 |
| olvi32*                          | 1.0 | 1.0 |
| olvi33*                          | 1.0 | 1.0 |
| olvi34*                          | 1.0 | 1.0 |
| olvi35*                          | 1.0 | 1.0 |
| olvi36*                          | 1.0 | 1.0 |
| olvi37*                          | 1.0 | 1.0 |
| olvi38*                          | 1.0 | 1.0 |
| olvi39*                          | 1.0 | 1.0 |
| olvi40*                          | 1.0 | 1.0 |
| olvi41*                          | 1.0 | 1.0 |
| olvi42*                          | 1.0 | 1.0 |
| olvi43*                          | 1.0 | 1.0 |
| olvi44*                          | 1.0 | 1.0 |
| olvi45*                          | 1.0 | 1.0 |
| olvi46*                          | 1.0 | 1.0 |
| olvi47*                          | 1.0 | 1.0 |
| olvi48*                          | 1.0 | 1.0 |
| olvi49*                          | 1.0 | 1.0 |
| olvi50*                          | 1.0 | 1.0 |
| olvi51*                          | 1.0 | 1.0 |
| olvi52*                          | 1.0 | 1.0 |
| olvi53*                          | 1.0 | 1.0 |
| olvi54*                          | 1.0 | 1.0 |
| olvi55*                          | 1.0 | 1.0 |
| olvi56*                          | 1.0 | 1.0 |
| olvi57*                          | 1.0 | 1.0 |
| olvi58*                          | 1.0 | 1.0 |
| olvi59*                          | 1.0 | 1.0 |
| olvi60*                          | 1.0 | 1.0 |
| olvi61*                          | 1.0 | 1.0 |
| olvi62*                          | 1.0 | 1.0 |
| olvi63*                          | 1.0 | 1.0 |
| olvi64*                          | 1.0 | 1.0 |
| olvi65*                          | 1.0 | 1.0 |
| olvi66*                          | 1.0 | 1.0 |
| olvi67*                          | 1.0 | 1.0 |
| olvi68*                          | 1.0 | 1.0 |
| olvi69*                          | 1.0 | 1.0 |
| olvi70*                          | 1.0 | 1.0 |
| olvi71*                          | 1.0 | 1.0 |
| olvi72*                          | 1.0 | 1.0 |
| olvi73*                          | 1.0 | 1.0 |
| olvi74*                          | 1.0 | 1.0 |
| olvi75*                          | 1.0 | 1.0 |
| olvi76*                          | 1.0 | 1.0 |
| olvi77*                          | 1.0 | 1.0 |
| olvi78*                          | 1.0 | 1.0 |
| olvi79*                          | 1.0 | 1.0 |
| olvi80*                          | 1.0 | 1.0 |
| olvi81*                          | 1.0 | 1.0 |
| olvi82*                          | 1.0 | 1.0 |
| olvi83*                          | 1.0 | 1.0 |
| olvi84*                          | 1.0 | 1.0 |
| olvi85*                          | 1.0 | 1.0 |
| olvi86*                          | 1.0 | 1.0 |
| olvi87*                          | 1.0 | 1.0 |
| olvi88*                          | 1.0 | 1.0 |
| olvi89*                          | 1.0 | 1.0 |
| olvi90*                          | 1.0 | 1.0 |
| olvi91*                          | 1.0 | 1.0 |
| olvi92*                          | 1.0 | 1.0 |
| olvi93*                          | 1.0 | 1.0 |
| olvi94*                          | 1.0 | 1.0 |
| olvi95*                          | 1.0 | 1.0 |
| olvi96*                          | 1.0 | 1.0 |
| olvi97*                          | 1.0 | 1.0 |
| olvi98*                          | 1.0 | 1.0 |
| olvi99*                          | 1.0 | 1.0 |
| olvi100*                         | 1.0 | 1.0 |

| relative Inform. Technology (IT) |      |      |
|----------------------------------|------|------|
| olvi3*                           | 0.75 | 0.75 |
| olvi4*                           | 0.75 | 0.75 |
| olvi5*                           | 0.75 | 0.75 |
| olvi6*                           | 0.75 | 0.75 |
| olvi7*                           | 0.75 | 0.75 |
| olvi8*                           | 0.75 | 0.75 |
| olvi9*                           | 0.75 | 0.75 |
| olvi10*                          | 0.75 | 0.75 |
| olvi11*                          | 0.75 | 0.75 |
| olvi12*                          | 0.75 | 0.75 |
| olvi13*                          | 0.75 | 0.75 |
| olvi14*                          | 0.75 | 0.75 |
| olvi15*                          | 0.75 | 0.75 |
| olvi16*                          | 0.75 | 0.75 |
| olvi17*                          | 0.75 | 0.75 |
| olvi18*                          | 0.75 | 0.75 |
| olvi19*                          | 0.75 | 0.75 |
| olvi20*                          | 0.75 | 0.75 |
| olvi21*                          | 0.75 | 0.75 |
| olvi22*                          | 0.75 | 0.75 |
| olvi23*                          | 0.75 | 0.75 |
| olvi24*                          | 0.75 | 0.75 |
| olvi25*                          | 0.75 | 0.75 |
| olvi26*                          | 0.75 | 0.75 |
| olvi27*                          | 0.75 | 0.75 |
| olvi28*                          | 0.75 | 0.75 |
| olvi29*                          | 0.75 | 0.75 |
| olvi30*                          | 0.75 | 0.75 |
| olvi31*                          | 0.75 | 0.75 |
| olvi32*                          | 0.75 | 0.75 |
| olvi33*                          | 0.75 | 0.75 |
| olvi34*                          | 0.75 | 0.75 |
| olvi35*                          | 0.75 | 0.75 |
| olvi36*                          | 0.75 | 0.75 |
| olvi37*                          | 0.75 | 0.75 |
| olvi38*                          | 0.75 | 0.75 |
| olvi39*                          | 0.75 | 0.75 |
| olvi40*                          | 0.75 | 0.75 |
| olvi41*                          | 0.75 | 0.75 |
| olvi42*                          | 0.75 | 0.75 |
| olvi43*                          | 0.75 | 0.75 |
| olvi44*                          | 0.75 | 0.75 |
| olvi45*                          | 0.75 | 0.75 |
| olvi46*                          | 0.75 | 0.75 |
| olvi47*                          | 0.75 | 0.75 |
| olvi48*                          | 0.75 | 0.75 |
| olvi49*                          | 0.75 | 0.75 |
| olvi50*                          | 0.75 | 0.75 |
| olvi51*                          | 0.75 | 0.75 |
| olvi52*                          | 0.75 | 0.75 |
| olvi53*                          | 0.75 | 0.75 |
| olvi54*                          | 0.75 | 0.75 |
| olvi55*                          | 0.75 | 0.75 |
| olvi56*                          | 0.75 | 0.75 |
| olvi57*                          | 0.75 | 0.75 |
| olvi58*                          | 0.75 | 0.75 |
| olvi59*                          | 0.75 | 0.75 |
| olvi60*                          | 0.75 | 0.75 |
| olvi61*                          | 0.75 | 0.75 |
| olvi62*                          | 0.75 | 0.75 |
| olvi63*                          | 0.75 | 0.75 |
| olvi64*                          | 0.75 | 0.75 |
| olvi65*                          | 0.75 | 0.75 |
| olvi66*                          | 0.75 | 0.75 |
| olvi67*                          | 0.75 | 0.75 |
| olvi68*                          | 0.75 | 0.75 |
| olvi69*                          | 0.75 | 0.75 |
| olvi70*                          | 0.75 | 0.75 |
| olvi71*                          | 0.75 | 0.75 |
| olvi72*                          | 0.75 | 0.75 |
| olvi73*                          | 0.75 | 0.75 |
| olvi74*                          | 0.75 | 0.75 |
| olvi75*                          | 0.75 | 0.75 |
| olvi76*                          | 0.75 | 0.75 |
| olvi77*                          | 0.75 | 0.75 |
| olvi78*                          | 0.75 | 0.75 |
| olvi79*                          | 0.75 | 0.75 |
| olvi80*                          | 0.75 | 0.75 |
| olvi81*                          | 0.75 | 0.75 |
| olvi82*                          | 0.75 | 0.75 |
| olvi83*                          | 0.75 | 0.75 |
| olvi84*                          | 0.75 | 0.75 |
| olvi85*                          | 0.75 | 0.75 |
| olvi86*                          | 0.75 | 0.75 |
| olvi87*                          | 0.75 | 0.75 |
| olvi88*                          | 0.75 | 0.75 |
| olvi89*                          | 0.75 | 0.75 |
| olvi90*                          | 0.75 | 0.75 |
| olvi91*                          | 0.75 | 0.75 |
| olvi92*                          | 0.75 | 0.75 |
| olvi93*                          | 0.75 | 0.75 |
| olvi94*                          | 0.75 | 0.75 |
| olvi95*                          | 0.75 | 0.75 |
| olvi96*                          | 0.75 | 0.75 |
| olvi97*                          | 0.75 | 0.75 |
| olvi98*                          | 0.75 | 0.75 |
| olvi99*                          | 0.75 | 0.75 |
| olvi100*                         | 0.75 | 0.75 |

| relative Inform. Technology (IT) |      |      |
|----------------------------------|------|------|
| olvi3*                           | 0.25 | 0.25 |
| olvi4*                           | 0.25 | 0.25 |
| olvi5*                           | 0.25 | 0.25 |
| olvi6*                           | 0.25 | 0.25 |
| olvi7*                           | 0.25 | 0.25 |
| olvi8*                           | 0.25 | 0.25 |
| olvi9*                           | 0.25 | 0.25 |
| olvi10*                          | 0.25 | 0.25 |
| olvi11*                          | 0.25 | 0.25 |
| olvi12*                          | 0.25 | 0.25 |
| olvi13*                          | 0.25 | 0.25 |
| olvi14*                          | 0.25 | 0.25 |
| olvi15*                          | 0.25 | 0.25 |
| olvi16*                          | 0.25 | 0.25 |
| olvi17*                          | 0.25 | 0.25 |
| olvi18*                          | 0.25 | 0.25 |
| olvi19*                          | 0.25 | 0.25 |
| olvi20*                          | 0.25 | 0.25 |
| olvi21*                          | 0.25 | 0.25 |
| olvi22*                          | 0.25 | 0.25 |
| olvi23*                          | 0.25 | 0.25 |
| olvi24*                          | 0.25 | 0.25 |
| olvi25*                          | 0.25 | 0.25 |
| olvi26*                          | 0.25 | 0.25 |
| olvi27*                          | 0.25 | 0.25 |
| olvi28*                          | 0.25 | 0.25 |
| olvi29*                          | 0.25 | 0.25 |
| olvi30*                          | 0.25 | 0.25 |
| olvi31*                          | 0.25 | 0.25 |
| olvi32*                          | 0.25 | 0.25 |
| olvi33*                          | 0.25 | 0.25 |
| olvi34*                          | 0.25 | 0.25 |
| olvi35*                          | 0.25 | 0.25 |
| olvi36*                          | 0.25 | 0.25 |
| olvi37*                          | 0.25 | 0.25 |
| olvi38*                          | 0.25 | 0.25 |
| olvi39*                          | 0.25 | 0.25 |
| olvi40*                          | 0.25 | 0.25 |
| olvi41*                          | 0.25 | 0.25 |
| olvi42*                          | 0.25 | 0.25 |
| olvi43*                          | 0.25 | 0.25 |
| olvi44*                          | 0.25 | 0.25 |
| olvi45*                          | 0.25 | 0.25 |
| olvi46*                          | 0.25 | 0.25 |
| olvi47*                          | 0.25 | 0.25 |
| olvi48*                          | 0.25 | 0.25 |
| olvi49*                          | 0.25 | 0.25 |
| olvi50*                          | 0.25 | 0.25 |
| olvi51*                          | 0.25 | 0.25 |
| olvi52*                          | 0.25 | 0.25 |
| olvi53*                          | 0.25 | 0.25 |
| olvi54*                          | 0.25 | 0.25 |
| olvi55*                          | 0.25 | 0.25 |
| olvi56*                          | 0.25 | 0.25 |
| olvi57*                          | 0.25 | 0.25 |
| olvi58*                          | 0.25 | 0.25 |
| olvi59*                          | 0.25 | 0.25 |
| olvi60*                          | 0.25 | 0.25 |
| olvi61*                          | 0.25 | 0.25 |
| olvi62*                          | 0.25 | 0.25 |
| olvi63*                          | 0.25 | 0.25 |
| olvi64*                          | 0.25 | 0.25 |
| olvi65*                          | 0.25 | 0.25 |
| olvi66*                          | 0.25 | 0.25 |
| olvi67*                          | 0.25 | 0.25 |
| olvi68*                          | 0.25 | 0.25 |
| olvi69*                          | 0.25 | 0.25 |
| olvi70*                          | 0.25 | 0.25 |
| olvi71*                          | 0.25 | 0.25 |
| olvi72*                          | 0.25 | 0.25 |
| olvi73*                          | 0.25 | 0.25 |
| olvi74*                          | 0.25 | 0.25 |
| olvi75*                          | 0.25 | 0.25 |
| olvi76*                          | 0.25 | 0.25 |
| olvi77*                          | 0.25 | 0.25 |
| olvi78*                          | 0.25 | 0.25 |
| olvi79*                          | 0.25 | 0.25 |
| olvi80*                          | 0.25 | 0.25 |
| olvi81*                          | 0.25 | 0.25 |
| olvi82*                          | 0.25 | 0.25 |
| olvi83*                          | 0.25 | 0.25 |
| olvi84*                          | 0.25 | 0.25 |
| olvi85*                          | 0.25 | 0.25 |
| olvi86*                          | 0.25 | 0.25 |
| olvi87*                          | 0.25 | 0.25 |
| olvi88*                          | 0.25 | 0.25 |
| olvi89*                          | 0.25 | 0.25 |
| olvi90*                          | 0.25 | 0.25 |
| olvi91*                          | 0.25 | 0.25 |
| olvi92*                          | 0.25 | 0.25 |
| olvi93*                          | 0.25 | 0.25 |
| olvi94*                          | 0.25 | 0.25 |
| olvi95*                          | 0.25 | 0.25 |
| olvi96*                          | 0.25 | 0.25 |
| olvi97*                          | 0.25 | 0.25 |
| olvi98*                          | 0.25 | 0.25 |
| olvi99*                          | 0.25 | 0.25 |
| olvi100*                         | 0.25 | 0.25 |

| relative Inform. Technology (IT) |       |       |            |
|----------------------------------|-------|-------|------------|
| olvi3*                           | 0.5   | 0.504 | 0.75 (1.0) |
| cmyn3*                           | 0.5   | 0.496 | 0.25 (0.0) |
| olvi4*                           | 0.75  | 0.754 | 1.0 0.75   |
| cmyn4*                           | 0.25  | 0.246 | 0.0 0.25   |
| standard and adapted CIELAB      |       |       |            |
| LAB*LAB                          | 62.75 | 0.62  | -20.1      |
| LAB*LABa                         | 62.75 | 0.58  | -20.1      |
| LAB*TCHa                         | 62.5  | 20.12 | 271.66     |