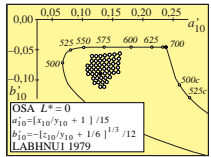


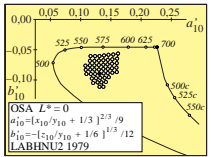
http://130.149.60.45/~farbmetrik/ME15/ME15L0N1.TXT /PS; start output
 N: No Output Linearization (OL) data in File (F), Startup (S) or Devout (D)

color space CIELAB 1976, color values, -attributes, -chromaticities (a^* , b^*)
 tristimulus values $X, Y, Z \rightarrow$ color attributes L^*, a^*, b^*
 lightness $L^* = 116 (Y/Y_n)^{1/3} - 16$
 RG-chromaticness $a^* = 500 [(X/X_n)^{1/3} - (Y/Y_n)^{1/3}] = 500 [a' - a'_n] Y^{1/3}$
 JB-chromaticness $b^* = 200 [(Y/Y_n)^{1/3} - (Z/Z_n)^{1/3}] = 500 [b' - b'_n] Y^{1/3}$
 color attributes $L^*, a^*, b^* \rightarrow$ tristimulus values X, Y, Z
 tristimulus values $X = X_n (L^* + 16) / 116 + a^*/500$
 $Y = Y_n [(L^* + 16) / 116]^3$
 $Z = Z_n [(L^* + 16) / 116 - b^*/200]^3$
 chromaticity for CIELAB 1976, LABHNU 1977, LABHNUx 1979
 CIELAB 1976, 2° $a' = 0,2191 (x/y)^{1/3}$ $b' = -0,08376 (z/y)^{1/3}$
 LABHNU 1977 $a' = (x/y + 1/6)^{1/3} / 4$ $b' = -(z/y + 1/6)^{1/3} / 12$
 LABHNU1 1979 $a' = (x/y + 1) / 15$ linear! $b' = -(z/y + 1/6)^{1/3} / 12$
 LABHNU2 1979 $a' = (x/y + 1/6)^{2/3} / 15$ $b' = -(z/y + 1/6)^{1/3} / 12$
 CIELAB 1976, 10° $a' = 0,2193 (\tau_{10}/y_{10})^{1/3}$ $b' = -0,08417 (\tau_{10}/y_{10})^{1/3}$
 chromaticity constants $a_2 = 500 (1/X_n)^{1/3} = 0,2191$ $b_2 = -200 (1/Z_n)^{1/3} = -0,08376$
 CIELAB, 2°, 10° $a_{10} = 500 (1/X_{a10})^{1/3} = 0,2193$ $b_{10} = -200 (1/Z_{a10})^{1/3} = -0,08417$

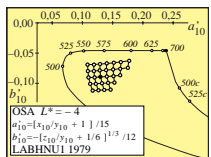
ME150-3, B4_12



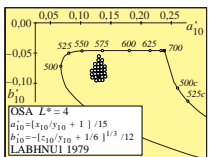
ME151-1, B4_14,4



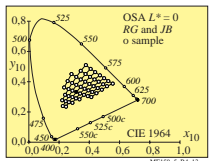
ME151-2, B4_14,5



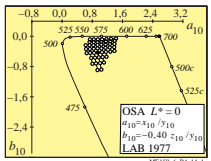
ME151-3, B4_15,1



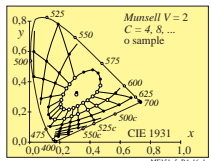
ME151-4, B4_15,2



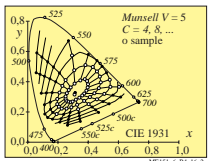
ME150-5, B4_13



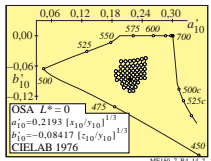
ME150-6, B4_14,1



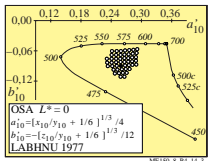
ME151-5, B4_16,1



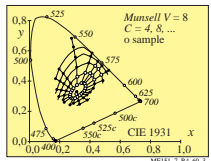
ME151-6, B4_16,2



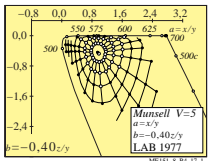
ME150-7, B4_14,2



ME150-8, B4_14,3



ME151-7, B4_16,3



ME151-8, B4_17,3

TUB-test chart ME15; Richter: Computer graphics, colorimetry
 Colour book series: Colour systems and measurement no. 1

input: cmyk setcmykcolor
 output: no colour data change

See original or copy: http://web.me.com/Klaus_richter/ME15/ME15L0N1.TXT /PS
 Technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20101101-ME15/ME15L0N1.TXT /PS
 application for measurement of printer or monitor systems

TUB material: code=thata