Linear relation CIELAB (L^*, a^*, b^*) and *adapted* (a) CIELAB ($C^*_{ab,a}$, L^*)
System: GE92_HRS16_96_D65_00%_G0

Hue: h^*_{Y00L}=96/360; h^*_{V00M}=305/360

l^*_{lab}=($L^* - L^*_N$) / ($L^*_W - L^*_N$)

a^*_a=$a^* - a^*_N - l^*_{lab^*}$ [$a^*_W - a^*_N$]

b^*_a=$b^* - b^*_N - l^*_{lab^*}$ [$b^*_W - b^*_N$]

$C^*_{ab,a}$=[$a^*_a{}^2 + b^*_a{}^2$]$^{1/2}$

lightness L^*

100

$Y00L$

$C^*_{ab,a,M}$
L^*_M

50

$V00M$

chroma $C^*_{ab,a}$

-100   -50   0   50   100

GE920-2A, 1; cf1=0.90; nt=0.18; nx=1.0

Linear relation CIELAB (L^*, a^*, b^*) and *adapted* (a) CIELAB ($C^*_{ab,a}$, L^*)
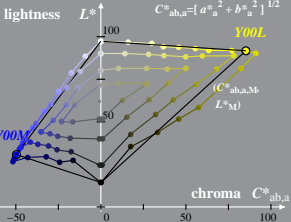**System: GE92_HRS16_96_D65_00%_G1**
Hue: h^*_{Y00L}=96/360; h^*_{V00M}=305/360

$$l^*_{lab} = (L^* - L^*_N) / (L^*_W - L^*_N)$$
$$a^*_a = a^* - a^*_N - l^*_{lab*}[a^*_W - a^*_N]$$
$$b^*_a = b^* - b^*_N - l^*_{lab*}[b^*_W - b^*_N]$$
$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$

lightness L^*

Y00L

V00M

$C^*_{ab,M}$
L^*_M

chroma $C^*_{ab,a}$

GE920–2A, 2; cf1=0.90; nt=0.18; nx=1.0