Relationship brightness B^*_{YT} and luminance L_T as function of tristimulus value Y_T for the adaptation luminance $L_a = 30$ cd/m^2

$B^*_{YT}(L_T, L_r, \varphi) = s_{yra}(\varphi) L_T^n - d_{yra}(\varphi)$ brightness B^*_{YT} [1]

$B_r(L_r, \varphi) = C_T(\varphi)[S_0(\varphi) + S_1(\varphi) L_r^n]$ (n=0,31, $B^*_{ra} = B^*_{LT,r}/B^*_{LT,a}$) [2]

$s_{yra}(\varphi) = C_T(\varphi) B^*_{ra}$ [3] $d_{yra}(\varphi) = B_r(L_r, \varphi) B^*_{ra}$ [4] (s=scaling factor)

Y_T	φ	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_r(L_r,\varphi)$	B^*_{YT}	$s_{yra}(\varphi)$	$d_{yra}(\varphi)$
170	120’	22,969	0,0718	0,2448	34,60	149,99	47,71	36,95
107	120’	22,969	0,0718	0,2448	34,60	124,99	47,71	36,95
62	120’	22,969	0,0718	0,2448	34,60	99,99	47,71	36,95
32	120’	22,969	0,0718	0,2448	34,60	74,99	47,71	36,95
14	120’	22,969	0,0718	0,2448	34,60	49,99	47,71	36,95
4	120’	22,969	0,0718	0,2448	34,60	24,99	47,71	36,95
0,91	120’	22,969	0,0718	0,2448	34,60	0,00	47,71	36,95
14	120’	22,969	0,0718	0,2448	35,53	49,99	47,71	36,95

hes21–3a j=2, L_r=300, L_{aj}=30, φ=120’, B_a=34,68, B^*_{YT}=48,03, s_{yra}=24,96, d_{yra}=17,95