

**Relationship brightness  $B^*_{YT}$  and tristimulus value  $Y_T$  as function of viewing angle  $\varphi$  for test equal adaptation luminance  $L_a = 3000 \text{ cd/m}^2$**

$$B^*_{YT}(L_T, L_a, \varphi) = s_y(L_a, \varphi) L_T^n - d_y(L_a, \varphi) \quad \text{brightness } B^*_{YT} \quad [1]$$

$$B_0(L_a, \varphi) = C_T(\varphi) [S_0(\varphi) + S_1(\varphi) L_a^n] \quad (n=0,31, L_{ra}^n = (L_{300}/L_a)^n) \quad [2]$$

$$s_y(\varphi) = C_T(\varphi) L_{ra}^n \quad [3] \quad d_y(L_a, \varphi) = B_0(L_a, \varphi) L_{ra}^n \quad [4] \quad (s = \text{scaling factor})$$

$Y_T$	$\varphi$	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_0(L_a, \varphi)$	$B^*_{YT}$	$s_y(L_a, \varphi)$	$d_y(L_a, \varphi)$
3000	120'	22,969	0,0718	0,2448	68,92	100,84	11,24	33,76
3000	100'	23,128	0,0747	0,2494	68,92	100,84	11,24	33,76
3000	90'	23,415	0,1086	0,2526	70,75	100,88	11,32	34,65
3000	60'	23,973	0,1313	0,2657	73,32	101,30	11,46	35,91
3000	30'	26,235	0,1797	0,3188	79,38	101,60	11,74	38,88
3000	20'	27,971	0,2013	0,3555	104,81	102,40	12,84	51,33
3000	10'	30,747	0,2730	0,3984	124,62	102,87	13,69	61,04
58,1U	120'	22,969	0,0718	0,2448	68,92	50,00U	11,24	33,76

hcp60-1a  $L_{aj}=3000, L_T=300, L_{ajdr}=10,00, L_{ajdren}=2,04, 0' \leq \varphi \leq 120'$