

**Relationship brightness  $B^*_{YT}$  and tristimulus value  $Y_T$  as function of viewing angle  $\varphi$  for test equal adaptation luminance  $L_a = 300 \text{ cd/m}^2$**

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

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

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

$Y_T$	$\varphi$	$C_T(\varphi)$	$S_0(\varphi)$	$S_1(\varphi)$	$B_0(L_a, \varphi)$	$B^*_{YT}$	$s_y(L_a, \varphi)$	$d_y(L_a, \varphi)$
300	120'	22,969	0,0718	0,2448	34,60	99,99	22,96	34,60
300	100'	23,128	0,0747	0,2494	35,53	99,99	23,12	35,53
300	90'	23,415	0,1086	0,2526	37,21	100,00	23,41	37,21
300	60'	23,973	0,1313	0,2657	40,48	99,99	23,97	40,48
300	30'	26,235	0,1797	0,3188	53,74	100,00	26,23	53,74
300	20'	27,971	0,2013	0,3555	63,91	99,99	27,97	63,91
300	10'	30,747	0,2730	0,3984	80,18	99,99	30,74	80,18
9,7U	120'	22,969	0,0718	0,2448	34,60	50,00U	22,96	34,60