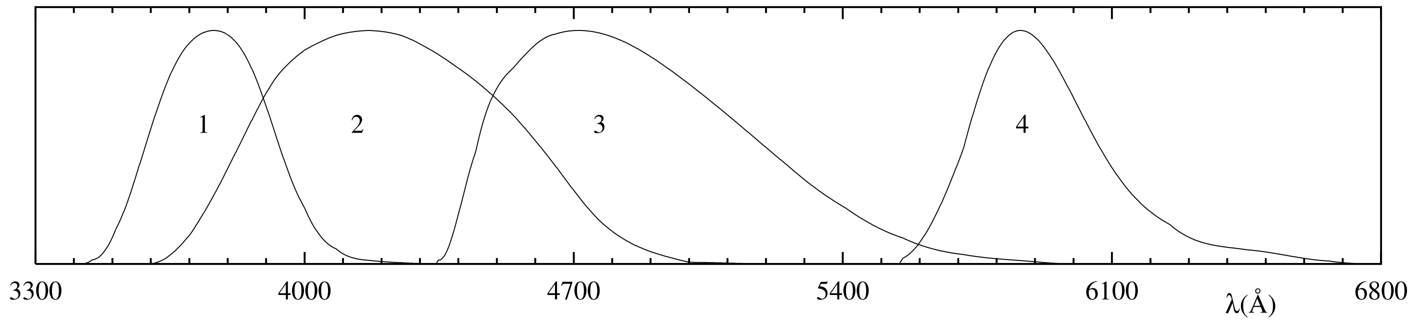
8 colors - Tifft - 1961



1

$\lambda_c = 3760$ $\quad \lambda_\circ = 3769$ $\quad \lambda_{peak} = 3764$ $\quad \lambda_{gauss} = 3763$

WHM = 351 $\quad$ W10% = 556 $\quad$ W80% = 224 $\quad$ FWHM = 336

$W_\circ = 358$ $\quad \mu = 131$ $\quad I_{asym} = 0.23$ $\quad I_{kurt} = -0.18$

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.32\ ^{1.30}_{1.35}$ $\quad \frac{A(\lambda)}{A(V)}|_{3.1} = 1.53\ ^{1.49}_{1.57}$ $\quad \frac{A(\lambda)}{A(V)}|_{2.1} = 1.81\ ^{1.74}_{1.89}$

$a = {}^{0.972}_{0.973}$ $\quad b = {}^{1.722}_{1.707}$ *B3* $\qquad a = {}^{0.972}_{0.973}$ $\quad b = {}^{1.724}_{1.707}$ *Sun*

$\frac{A(\lambda)}{E(B-V)}$: $(4.653, 0.079)^{r=1.00}_{B3}$ $\quad (5.000, 0.100)^{r=1.00}_{Sun}$ $\quad (5.657, 0.079)^{r=1.00}_{M2}$

$\lambda_{eff} = 3768.4 + 16.7 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 359.4 - 8.5 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 3750 + 49 \times \theta + 31 \times \theta^2 - 15 \times \theta^3$ $\qquad W_{eff}(T) = 350 + 44 \times \theta - 79 \times \theta^2 + 6 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3776	3811	3775	3783	3820	3844
[354]	[327]	[363]	[383]	[353]	[321]

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3759	3762	3760	3752	3770	3759

2

$\lambda_c = 4220$ $\quad \lambda_\circ = 4232$ $\quad \lambda_{peak} = 4167$ $\quad \lambda_{gauss} = 4211$

WHM = 786 $\quad$ W10% = 1148 $\quad$ W80% = 506 $\quad$ FWHM = 723

$W_\circ = 770$ $\quad \mu = 269$ $\quad I_{asym} = 0.21$ $\quad I_{kurt} = -0.61$

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.23\ ^{1.21}_{1.23}$ $\quad \frac{A(\lambda)}{A(V)}|_{3.1} = 1.38\ ^{1.35}_{1.37}$ $\quad \frac{A(\lambda)}{A(V)}|_{2.1} = 1.57\ ^{1.52}_{1.55}$

$a = {}^{0.990}_{0.993}$ $\quad b = {}^{1.270}_{1.197}$ *B3* $\qquad a = {}^{0.994}_{0.997}$ $\quad b = {}^{1.163}_{1.086}$ *Sun*

$\frac{A(\lambda)}{E(B-V)}$: $(4.264, 0.051)^{r=0.99}_{B3}$ $\quad (4.496, 0.065)^{r=1.00}_{Sun}$ $\quad (4.966, 0.047)^{r=1.00}_{M2}$

$\lambda_{eff} = 4230.8 + 67.8 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 786.0 - 61.3 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 4163 + 153 \times \theta + 127 \times \theta^2 - 70 \times \theta^3$ $\qquad W_{eff}(T) = 720 + 301 \times \theta - 520 \times \theta^2 + 117 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4193	4222	4278	4358	4427	4540
[746]	[741]	[733]	[625]	[511]	[441]

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4223	4283	4094	4203	4263	4213

3

$\lambda_c = 4824$ $\quad \lambda_\circ = 4881$ $\quad \lambda_{peak} = 4712$ $\quad \lambda_{gauss} = 4810$

WHM = 752 $\quad$ W10% = 1191 $\quad$ W80% = 457 $\quad$ FWHM = 711

$W_\circ = 757$ $\quad \mu = 292$ $\quad I_{asym} = 0.59$ $\quad I_{kurt} = -0.14$

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.11\ ^{1.11}_{1.12}$ $\quad \frac{A(\lambda)}{A(V)}|_{3.1} = 1.17\ ^{1.17}_{1.19}$ $\quad \frac{A(\lambda)}{A(V)}|_{2.1} = 1.26\ ^{1.25}_{1.28}$

$a = {}^{1.015}_{1.016}$ $\quad b = {}^{0.498}_{0.425}$ *B3* $\qquad a = {}^{1.016}_{1.016}$ $\quad b = {}^{0.450}_{0.375}$ *Sun*

$\frac{A(\lambda)}{E(B-V)}$: $(3.669, 0.032)^{r=0.99}_{B3}$ $\quad (3.894, 0.041)^{r=1.00}_{Sun}$ $\quad (4.334, 0.009)^{r=0.88}_{M2}$

$\lambda_{eff} = 4877.6 + 86.7 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 775.9 - 76.3 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 4814 + 110 \times \theta + 130 \times \theta^2 - 52 \times \theta^3$ $\qquad W_{eff}(T) = 721 + 168 \times \theta - 214 \times \theta^2 - 15 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4826	4832	4873	4905	4972	5022
[736]	[741]	[753]	[759]	[714]	[560]

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4794	4771	4976	4874	4961	4829

4

$\lambda_c = 5891$ $\quad \lambda_\circ = 5937$ $\quad \lambda_{peak} = 5862$ $\quad \lambda_{gauss} = 5892$

WHM = 353 $\quad$ W10% = 717 $\quad$ W80% = 201 $\quad$ FWHM = 378

$W_\circ = 403$ $\quad \mu = 189$ $\quad I_{asym} = 0.95$ $\quad I_{kurt} = 1.16$

$\frac{A(\lambda)}{A(V)}|_{5.0} = 0.93\ ^{0.93}_{0.96}$ $\quad \frac{A(\lambda)}{A(V)}|_{3.1} = 0.90\ ^{0.89}_{0.94}$ $\quad \frac{A(\lambda)}{A(V)}|_{2.1} = 0.85\ ^{0.84}_{0.91}$

$a = {}^{0.969}_{0.967}$ $\quad b = {}^{-0.149}_{-0.154}$ *B3* $\qquad a = {}^{0.968}_{0.966}$ $\quad b = {}^{-0.152}_{-0.158}$ *Sun*

$\frac{A(\lambda)}{E(B-V)}$: $(2.756, 0.045)^{r=1.00}_{B3}$ $\quad (2.951, 0.057)^{r=1.00}_{Sun}$ $\quad (3.356, 0.043)^{r=1.00}_{M2}$

$\lambda_{eff} = 5936.1 + 24.5 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 404.2 - 9.2 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 5914 + 29 \times \theta + 34 \times \theta^2 - 13 \times \theta^3$ $\qquad W_{eff}(T) = 398 + 13 \times \theta - 8 \times \theta^2 - 9 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
5917	5919	5930	5938	5949	5947
[399]	[399]	[399]	[399]	[384]	[390]

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
5922	5856	6173	6011	6007	5917

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