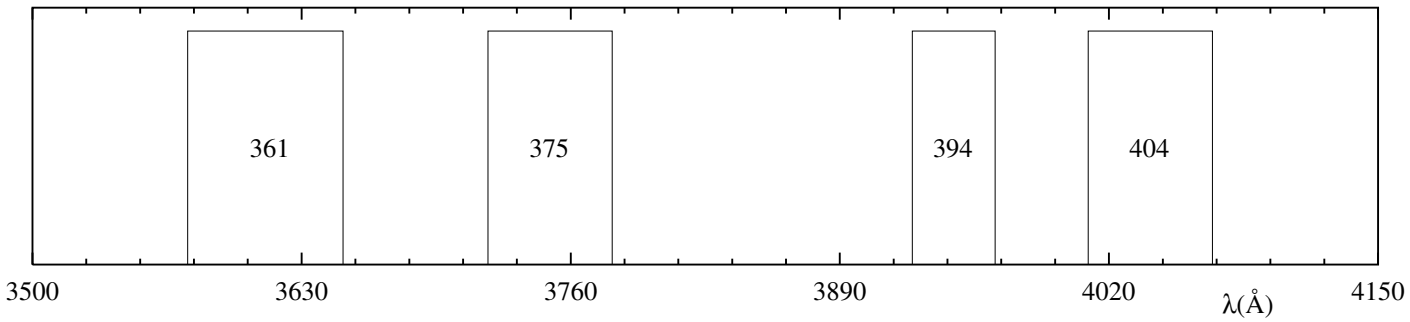
8 colors - Morguleff et al. - 1975



361 original profile: rectangular

$\lambda_c = 3612$

WHM = 75

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3612	3612	3614	3618	3618	3626
[75]	[75]	[75]	[70]	[71]	[54]

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.34\ ^{1.33}_{1.39}$ $\quad a = {}^{0.955}_{0.955}\ \ b = {}^{1.891}_{1.891}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.58\ ^{1.55}_{1.65}$ $\quad a = {}^{0.956}_{0.956}\ \ b = {}^{1.889}_{1.889}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.89\ ^{1.84}_{2.01}$

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3613	3611	3615	3614	3611	3612

$\frac{A(\lambda)}{E(B-V)}$: $(4.816, 0.090)^{r=1.00}_{B3}$ $(5.171, 0.114)^{r=1.00}_{Sun}$ $(5.901, 0.098)^{r=1.00}_{M2}$

$\lambda_{eff} = 3612.5 + 0.5 \times E(B-V)$ r=1.00 $\quad W_{eff} = 75.0 - 0.1 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 3611.9 + 1.6 \times \theta + 0.9 \times \theta^2 - 0.4 \times \theta^3$ $\quad W_{eff}(T) = 74.9 + 0.4 \times \theta - 0.6 \times \theta^2 - 0.1 \times \theta^3$

375 original profile: rectangular

$\lambda_c = 3750$

WHM = 60

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3751	3752	3752	3756	3757	3760
[60]	[58]	[58]	[54]	[52]	[56]

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.32\ ^{1.31}_{1.36}$ $\quad a = {}^{0.970}_{0.970}\ \ b = {}^{1.747}_{1.747}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.53\ ^{1.51}_{1.61}$ $\quad a = {}^{0.970}_{0.970}\ \ b = {}^{1.746}_{1.745}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.82\ ^{1.77}_{1.93}$

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3750	3749	3729	3736	3750	3750

$\frac{A(\lambda)}{E(B-V)}$: $(4.676, 0.088)^{r=1.00}_{B3}$ $(5.022, 0.111)^{r=1.00}_{Sun}$ $(5.730, 0.095)^{r=1.00}_{M2}$

$\lambda_{eff} = 3750.0 + 0.3 \times E(B-V)$ r=1.00 $\quad W_{eff} = 60.0 - 0.0 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 3749.6 + 0.9 \times \theta + 0.5 \times \theta^2 - 0.3 \times \theta^3$ $\quad W_{eff}(T) = 60.0 + 0.2 \times \theta - 0.2 \times \theta^2 - 0.0 \times \theta^3$

394 original profile: rectangular

$\lambda_c = 3945$

WHM = 40

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3945	3944	3947	3949	3948	3948
[40]	[39]	[42]	[45]	[42]	[39]

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.29\ ^{1.28}_{1.33}$ $\quad a = {}^{0.980}_{0.980}\ \ b = {}^{1.555}_{1.555}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.47\ ^{1.45}_{1.54}$ $\quad a = {}^{0.980}_{0.980}\ \ b = {}^{1.552}_{1.552}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.72\ ^{1.68}_{1.84}$

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3945	3944	3958	3946	3947	3944

$\frac{A(\lambda)}{E(B-V)}$: $(4.490, 0.084)^{r=1.00}_{B3}$ $(4.821, 0.106)^{r=1.00}_{Sun}$ $(5.506, 0.091)^{r=1.00}_{M2}$

$\lambda_{eff} = 3945.0 + 0.1 \times E(B-V)$ r=1.00 $\quad W_{eff} = 40.0 - 0.0 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 3944.9 + 0.4 \times \theta + 0.2 \times \theta^2 - 0.1 \times \theta^3$ $\quad W_{eff}(T) = 40.0 + 0.0 \times \theta - 0.1 \times \theta^2 - 0.0 \times \theta^3$

404 original profile: rectangular

$\lambda_c = 4040$

WHM = 60

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4040	4040	4039	4039	4039	4039
[60]	[60]	[60]	[60]	[60]	[60]

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.27\ ^{1.26}_{1.31}$ $\quad a = {}^{0.984}_{0.984}\ \ b = {}^{1.451}_{1.451}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.44\ ^{1.42}_{1.51}$ $\quad a = {}^{0.984}_{0.984}\ \ b = {}^{1.452}_{1.452}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.67\ ^{1.63}_{1.79}$

WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4042	4044	4043	4041	4040	4040

$\frac{A(\lambda)}{E(B-V)}$: $(4.392, 0.082)^{r=1.00}_{B3}$ $(4.718, 0.104)^{r=1.00}_{Sun}$ $(5.389, 0.089)^{r=1.00}_{M2}$

$\lambda_{eff} = 4040.0 + 0.2 \times E(B-V)$ r=1.00 $\quad W_{eff} = 60.0 - 0.0 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4039.7 + 0.8 \times \theta + 0.5 \times \theta^2 - 0.3 \times \theta^3$ $\quad W_{eff}(T) = 60.0 + 0.1 \times \theta - 0.2 \times \theta^2 - 0.0 \times \theta^3$

(continues) ⇒