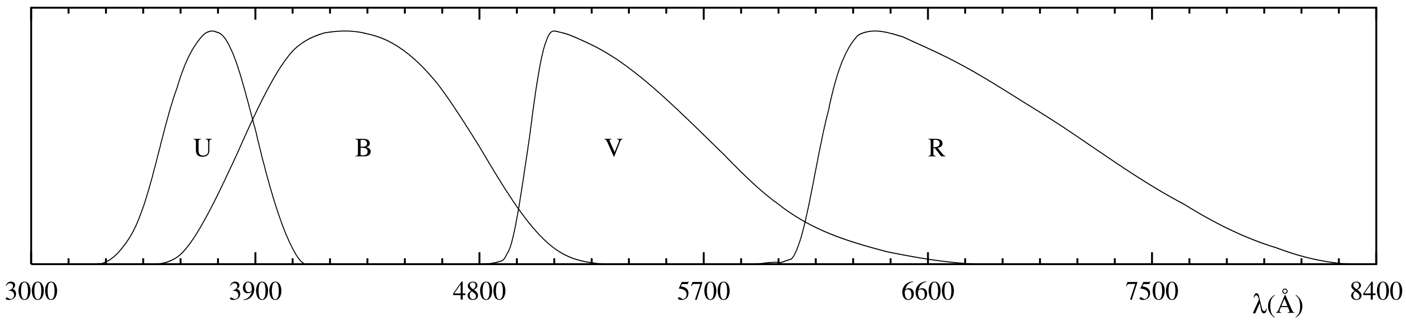
UBVR - Cathey - 1974



U

					B3	Vega	Sun	K2	M2	Carbon
$\lambda_c = 3717$	$\lambda_\circ = 3715$	$\lambda_{peak} = 3727$	$\lambda_{gauss} = 3718$		3719	3761	3720	3733	3768	3776
WHM = 401	W10% = 648	W80% = 245	FWHM = 381		[408]	[372]	[407]	[418]	[393]	[417]
$W_\circ = 406$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.33\ ^{1.31}_{1.36}$	$a = ^{0.967}_{0.969}$	$b = ^{1.778}_{1.757}$	*B3*	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
$\mu = 147$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.54\ ^{1.51}_{1.60}$	$a = ^{0.968}_{0.969}$	$b = ^{1.777}_{1.757}$	*Sun*	3694	3707	3741	3708	3714	3701
$I_{asym} = -0.08$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.83\ ^{1.77}_{1.92}$	$\frac{A(\lambda)}{E(B-V)}$:	$(4.711, 0.077)^{r=1.00}_{B3}$		$(5.060, 0.099)^{r=1.00}_{Sun}$		$(5.719, 0.080)^{r=1.00}_{M2}$			
$I_{kurt} = -0.51$	$\lambda_{eff} = 3714.6 + 20.8 \times E(B-V)$ r=1.00				$W_{eff} = 409.0 - 12.3 \times E(B-V)$ r=−0.97					
	$\lambda_{eff}(T) = 3690 + 70 \times \theta + 35 \times \theta^2 - 22 \times \theta^3$				$W_{eff}(T) = 395 + 71 \times \theta - 134 \times \theta^2 + 25 \times \theta^3$					

B

					B3	Vega	Sun	K2	M2	Carbon
$\lambda_c = 4320$	$\lambda_\circ = 4329$	$\lambda_{peak} = 4259$	$\lambda_{gauss} = 4313$		4269	4305	4382	4477	4555	4691
WHM = 964	W10% = 1419	W80% = 635	FWHM = 897		[910]	[905]	[906]	[777]	[648]	[349]
$W_\circ = 955$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.21\ ^{1.18}_{1.21}$	$a = ^{0.994}_{0.998}$	$b = ^{1.175}_{1.063}$	*B3*	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
$\mu = 328$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.34\ ^{1.30}_{1.34}$	$a = ^{0.999}_{1.003}$	$b = ^{1.029}_{0.918}$	*Sun*	4312	4372	4478	4307	4564	4290
$I_{asym} = 0.13$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.51\ ^{1.44}_{1.50}$	$\frac{A(\lambda)}{E(B-V)}$:	$(4.194, 0.034)^{r=0.99}_{B3}$		$(4.391, 0.046)^{r=1.00}_{Sun}$		$(4.815, 0.032)^{r=0.99}_{M2}$			
$I_{kurt} = -0.68$	$\lambda_{eff} = 4327.6 + 100.0 \times E(B-V)$ r=1.00				$W_{eff} = 983.3 - 108.3 \times E(B-V)$ r=−0.98					
	$\lambda_{eff}(T) = 4227 + 224 \times \theta + 177 \times \theta^2 - 108 \times \theta^3$				$W_{eff}(T) = 867 + 533 \times \theta - 933 \times \theta^2 + 262 \times \theta^3$					

V

					B3	Vega	Sun	K2	M2	Carbon
$\lambda_c = 5374$	$\lambda_\circ = 5467$	$\lambda_{peak} = 5099$	$\lambda_{gauss} = 5360$		5399	5407	5457	5501	5557	5650
WHM = 758	W10% = 1354	W80% = 415	FWHM = 739		[765]	[769]	[782]	[764]	[700]	[624]
$W_\circ = 786$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.00\ ^{1.01}_{1.01}$	$a = ^{1.005}_{1.001}$	$b = ^{0.048}_{0.008}$	*B3*	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
$\mu = 346$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.01\ ^{1.01}_{1.01}$	$a = ^{1.002}_{0.997}$	$b = ^{0.018}_{-0.023}$	*Sun*	5437	5516	5120	5505	5211	5402
$I_{asym} = 0.78$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.01\ ^{1.01}_{1.01}$	$\frac{A(\lambda)}{E(B-V)}$:	$(3.155, 0.025)^{r=0.99}_{B3}$		$(3.340, 0.031)^{r=1.00}_{Sun}$		$(3.720, 0.007)^{r=0.86}_{M2}$			
$I_{kurt} = 0.15$	$\lambda_{eff} = 5462.7 + 101.0 \times E(B-V)$ r=1.00				$W_{eff} = 805.4 - 76.9 \times E(B-V)$ r=−0.98					
	$\lambda_{eff}(T) = 5387 + 107 \times \theta + 147 \times \theta^2 - 51 \times \theta^3$				$W_{eff}(T) = 753 + 130 \times \theta - 123 \times \theta^2 - 53 \times \theta^3$					

R

					B3	Vega	Sun	K2	M2	Carbon
$\lambda_c = 6716$	$\lambda_\circ = 6818$	$\lambda_{peak} = 6387$	$\lambda_{gauss} = 6695$		6722	6734	6775	6810	6923	6855
WHM = 1097	W10% = 1831	W80% = 592	FWHM = 1038		[1068]	[1077]	[1096]	[1101]	[1070]	[1158]
$W_\circ = 1104$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 0.79\ ^{0.78}_{0.81}$	$a = ^{0.894}_{0.886}$	$b = ^{-0.312}_{-0.328}$	*B3*	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
$\mu = 453$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 0.73\ ^{0.73}_{0.76}$	$a = ^{0.889}_{0.881}$	$b = ^{-0.322}_{-0.340}$	*Sun*	6752	6800	6605	6663	6675	6726
$I_{asym} = 0.58$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 0.65\ ^{0.65}_{0.69}$	$\frac{A(\lambda)}{E(B-V)}$:	$(2.297, 0.020)^{r=0.99}_{B3}$		$(2.440, 0.026)^{r=1.00}_{Sun}$		$(2.699, 0.006)^{r=0.91}_{M2}$			
$I_{kurt} = -0.41$	$\lambda_{eff} = 6815.4 + 103.6 \times E(B-V)$ r=1.00				$W_{eff} = 1123.3 - 74.7 \times E(B-V)$ r=−0.97					
	$\lambda_{eff}(T) = 6708 + 113 \times \theta + 156 \times \theta^2 - 58 \times \theta^3$				$W_{eff}(T) = 1053 + 139 \times \theta - 50 \times \theta^2 - 94 \times \theta^3$					