

## BAFFLES: BAYESIAN AGES FOR FIELD LOWER-MASS STARS

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### ABSTRACT

Age is a fundamental parameter of stars, yet in many cases ages of individual stars are presented without robust estimates of the uncertainty. We have developed a Bayesian framework, **BAFFLES**, to produce the age posterior for a star from its calcium emission strength ( $\log(R'_{HK})$ ) or lithium abundance (Li EW) and  $B - V$  color. We empirically determine the likelihood functions for calcium and lithium as functions of age from literature measurements of stars in benchmark clusters with well-determined ages. We use a uniform prior on age which reflects a uniform star formation rate. The age posteriors we derive for several test cases are consistent with literature ages found from other methods. **BAFFLES** represents a robust method to determine the age posterior probability distribution for any field star with  $0.45 \leq B - V \leq 0.9$  and a measurement of  $R'_{HK}$  and/or  $0.35 \leq B - V \leq 1.9$  and measured Li EW. We compile colors,  $R'_{HK}$ , and Li EW from over 2630 nearby field stars from the literature and present the derived **BAFFLES** age posterior for each star.

*Keywords:* Stellar activity (1580), Stellar ages (1581), Field stars (2103), Bayesian statistics (1900)

arXiv:2006.04811v2 [astro-ph.SR] 16 Jun 2020

## 1. INTRODUCTION

Age, along with mass and metallicity, is a fundamental parameter of stars. Accurate stellar ages are needed in a wide variety of astronomical studies, including galactic evolution, globular clusters, open clusters, star forming regions, stellar multiples, brown dwarf companions, and planetary systems. For direct imaging exoplanet surveys, such as the Gemini Planet Imager Exoplanet Survey (Macintosh et al. 2018; Nielsen et al. 2019), stellar age is important at all stages of the survey. First, while selecting target stars, younger stars are preferred, since their planets will be inherently brighter and easier to detect. Second, the mass for an imaged planet is derived from the age of the host star using evolutionary models that link mass, age, and luminosity (e.g. Allard 2014; Baraffe et al. 2015), and the dominant measurement uncertainty in deriving mass is from age (Bowler 2016). Third, age is a requirement for measuring the occurrence rates of planets. Translating sensitivity in apparent brightness to mass sensitivity requires the age of each observed star. Thus completeness to planets as a function of mass, a key ingredient for occurrence rate, relies heavily on precise ages for the entire sample (e.g. Bowler 2016; Nielsen et al. 2013, 2019).

Yet unlike the ages of stars in co-eval groups, like open clusters or moving groups, the ages of field stars are difficult to determine robustly. For stellar clusters with well-determined membership lists, the main sequence turnoff is used to robustly determine the age (e.g. Goudfrooij et al. 2014; Cummings & Kalirai 2018). The lithium depletion boundary is applicable to both clusters and more sparse moving groups, with the reddest objects in an association with detectable lithium absorption setting the overall age (e.g. Burke et al. 2004; Soderblom 2010). For isolated field stars, however, a less robust set of observables that track age are available, including spectroscopic indicators (e.g. Skumanich 1971; Wright et al. 2004), gyrochronology (e.g. Kraft 1967; Barnes 2009), and asteroseismology (e.g. Cunha et al. 2007). Here we present a Bayesian method to determine age through two spectral indicators: calcium emission strength and the depth of the lithium absorption line.

### 1.1. Empirical Age Indicators

#### 1.1.1. Calcium Emission Strength

Calcium emission strength, as given by the index  $R'_{HK}$ , is connected to the strength of a star's magnetic field through the stellar dynamo (Noyes et al. 1984). The rotation of the star and convection within induces a magnetic field whose strength is proportional to the rate of rotation (Noyes et al. 1984; Skumanich 1971). Over time the star's rotation inevitably slows as it ejects ion-

ized particles in its stellar wind, which carry away angular momentum (Kraft 1967; Weber & Davis 1967), and as a result the magnetic field strength and thus calcium emission strength generally decrease with age.

The index  $R'_{HK}$  is a measure of the flux in the narrow emission line in the core of the Calcium II H and K absorption lines at  $\sim 3968$  Å and  $\sim 3934$  Å respectively (Noyes et al. 1984; Wright et al. 2004).  $R'_{HK}$  is derived from an intermediate index, the S index, which represents the ratio of the narrow emission flux to the background continuum flux. S provides a relative comparison of emission strength, yet includes both chromospheric and photospheric contributions and is dependent on  $B - V$  (as well as age). Therefore, to remove the dependencies on  $B - V$  the S index is transformed by two empirically determined polynomials in  $B - V$ , resulting in  $R'_{HK}$  (Noyes et al. 1984; Wright et al. 2004), where the polynomials have been calibrated over a  $B - V$  range of 0.45 to 0.90, corresponding to an approximate spectral type range of F6 to K2. In addition to the long-term decline in activity over time, the S value for a single star also varies by  $\sim 10\%$  over that star's activity cycle (Wright et al. 2004).

#### 1.1.2. Lithium Equivalent Width

The strength of the lithium absorption line traces the amount of lithium present in the photosphere of a star. When stars initially form, their primordial lithium abundances are similar to the abundance from Big Bang nucleosynthesis, with number densities of  $\sim 10^{-9}$  that of hydrogen (Sestito & Randich 2005). Over time stars deplete their primordial lithium by nuclear burning in the core and convective mixing, so that measurements of remaining surface lithium correlate with stellar age (Soderblom 2010; Skumanich 1971). For stars cooler than  $\sim 7000$  K, lithium abundance can be measured based on the equivalent width (EW) of the absorption of the lithium doublet at 6708 Å (Soderblom 2010); hotter stars (OBA spectral types) have ionized their lithium, and have negligible 6708 Å absorption even with no lithium burning.

Lithium's two isotopes,  ${}^6\text{Li}$  and the more abundant  ${}^7\text{Li}$ , burn at temperatures of 2.2 million K and 2.6 million K, respectively. Since stellar surface temperatures are much lower ( $\sim 2500$  K for low-mass M stars and  $\sim 46000$  K for high-mass O-stars), in order to burn, lithium must be brought into hotter layers via convection (Soderblom et al. 1990). As a result, the rate of lithium depletion largely depends on the depth of the convection zone, allowing lower-mass stars – which while having lower surface temperatures have much deeper convective layers – to deplete lithium faster than higher-

mass stars (Soderblom et al. 1990). In addition to convection it is thought that slow mixing induced by rotation and angular momentum loss may affect lithium depletion (Sestito & Randich 2005), so that lithium abundance is a function of age, spectral type, and the initial rotation rate and rotational evolution of the star.

### 1.2. Functional fits to $R'_{HK}$ and Li EW evolution

Previous studies have taken advantage of the correlation between  $R'_{HK}$  and age to create empirical fits of mean cluster  $\log(R'_{HK})$  vs.  $\log$  cluster age (Soderblom et al. 1991; Donahue 1993; Lachaume et al. 1999; Mamajek & Hillenbrand 2008). However while these polynomial fits allow one to find an expression for age as a function of  $R'_{HK}$ , the polynomial makes no direct prediction of uncertainty in the age derivation. Soderblom et al. (1991) found the standard deviation of their stellar data around their power-law fit to be  $\sim 0.2$  dex and concluded that ages predicted from their fit would be accurate to  $\sim 50\%$ . A similar approach has been done for lithium as well (finding an average fit to clusters, and assigning a single age to a star based on its location relative to the cluster fits), e.g. Mamajek et al. 2002; Nielsen & Close 2010. However this method fails to capture the full astrophysical scatter.

In addition, many polynomial fits fail to account for a uniform star formation rate in the Milky Way (with exceptions such as the second polynomial fit developed by Soderblom et al. 1991). Both Soderblom et al. (1991) and Mamajek & Hillenbrand (2008) note that using a 1-to-1 polynomial conversion between  $R'_{HK}$  and age on a volume-limited sample of solar-type stars results in an unphysically large number of stars with ages  $< 1$  Gyr, compared to older stars, inconsistent with the expected local star formation history (their Figures 9 and 14, respectively). The polynomial fits (e.g. Figure 2) tend to have slopes that become more negative when going to increasing age, so that the curve is flatter at small ages and steeper at larger ages. If scatter in  $R'_{HK}$  is symmetric (which we present evidence for in Section 3.1.4), this leads to a bias where systematically younger ages are predicted, since a 0.1 dex displacement toward more positive values of  $R'_{HK}$  moves along the flatter part of the curve to much younger ages, compared to an equal 0.1 dex displacement toward more negative values of  $R'_{HK}$ , which moves along the steeper part of the curve, and does not move toward older ages as quickly. To illustrate this effect we use the Mamajek & Hillenbrand (2008) polynomial giving  $\log(\text{age})$  as a function of  $R'_{HK}$  (their Equation 3). We generate  $10^6$  stars uniformly distributed in age between 1 Myr and 10 Gyr, then numerically invert the polynomial to assign a value of  $R'_{HK}$

to each, add 0.1 dex of Gaussian noise to each value, and use the polynomial to convert back to age. The returned age distribution has a significant spike at  $\lesssim 1$  Gyr, which becomes more prominent as the amplitude of the Gaussian noise is increased. Soderblom et al. (1991) attempted to correct for this effect by adjusting the polynomial fit at large ages, by constraining it with the nearby star sample and assuming that sample had a uniform star formation rate. Mamajek & Hillenbrand (2008) advocates for an activity/rotation/age relation instead, which flattens out the age distribution of the volume-limited sample out to 6 Gyr. Here, we present an explicit prior uniform in age when creating age posterior probability density functions to address this issue.

Furthermore, the median age estimates for separate methods (e.g.  $R'_{HK}$  and Li EW) are difficult to rigorously combine without precise uncertainty estimates. Previous works have, for example, simply averaged the ages obtained from  $R'_{HK}$  and lithium e.g. Nielsen & Close 2010.

Brandt et al. (2014b) develops a Bayesian method to combine the age PDF of a star's likely moving group with its posterior PDF from indicators of chromospheric and X-ray activity and stellar rotation. The two age distributions are then averaged, weighted by the probability of membership to the moving group. Other works (e.g. Casagrande et al. 2011, Nielsen et al. 2013) have developed Bayesian methods for deriving age posteriors from isochrones that also utilize a uniform star formation rate prior.

We describe here a method to derive Bayesian ages for field stars from lithium or calcium measurements, Bayesian Ages For Field LowEr-mass Stars (BAFFLES).<sup>1</sup> For calcium emission our method is calibrated to stars with  $B - V$  between 0.45 and 0.9 ( $\sim$ F6-K2) and  $\log(R'_{HK})$  between  $-3.7$  and  $-5$ . For lithium we have calibrated BAFFLES to stars with  $B - V$  between 0.35 and 1.9 ( $\sim$ F2-M5) and Li EW between 3.2 and 1500 mÅ.

## 2. DATA

We calibrate BAFFLES using benchmark moving groups and open clusters with well-determined ages. While calcium emission strength and lithium abundance serve as indicators of relative age, we use these clusters to calibrate the relationships that give age as a function of indicator. Table 1 gives basic properties on

<sup>1</sup> Our BAFFLES package is available at <https://doi.org/10.5281/zenodo.3840244> and can be used from the command line with `python baffles.py -bmv [B-V] -rhk [Log(R'_{HK})] -li [Li EW]` (with other options available).

Group Name	Age (Myr)	Age Ref.	$N_{\text{Ca}}$	Ca Ref.	$N_{\text{Li}}$	Li Ref.
NGC2264	5.5	3			123	9,10
Upper Scorpius	10	20	8	1		
UCL+LCC	16	21,22	8	1		
$\beta$ Pic	24	2	6	1,30,31	37	14,19
IC2602	43.7	4			27	11
Tuc/Hor	45	2	6	1,32,33		
$\alpha$ Per	85	1,23,24	12	1	60	15
Pleiades	130	1,23,25	42	1	128	6
M35	200	26			82	16
M34	240	5			49	12
UMa	500	27	10	1		
Coma Ber	600	13			13	17
Hyades	700	28,34	41	1	50	7
M67	4000	29,18	70	1	40	8

**Table 1.** BAFFLES benchmark clusters for both calcium emission and lithium abundance.  $N_{\text{Ca}}$  and  $N_{\text{Li}}$  refer to the number of stars from each cluster with literature calcium/lithium measurements. References: (1) Mamajek & Hillenbrand (2008), (2) Bell et al. (2015), (3) Turner (2012), (4) Randich et al. (2018), (5) Meibom et al. (2011), (6) Soderblom et al. (1993), (7) Pace et al. (2012), (8) Jones et al. (1999), (9) Tobin et al. (2015), (10) King (1998), (11) Randich et al. (2001), (12) Jones et al. (1997), (13) King & Schuler (2005), (14) Mentuch et al. (2008), (15) Balachandran et al. (2011), (16) Anthony-Twarog et al. (2018), (17) Ford et al. (2001), (18) VandenBerg & Stetson (2004), (19) Shkolnik et al. (2017), (20) Pecaú & Mamajek (2016), (21) Mamajek et al. (2002), (22) de Zeeuw et al. (1999), (23) Barrado y Navascués et al. (2004), (24) Makarov (2006), (25) Duncan et al. (1991), (26) Sung & Bessell (1999), (27) King et al. (2003), (28) Brandt & Huang (2015), (29) Giampapa et al. (2006), (30) Wright et al. (2004), (31) Gray et al. (2006), (32) Jenkins et al. (2006), (33) Henry et al. (1996), (34) Gossage et al. (2018).

each benchmark cluster as well as our assumed age for each.

Since the ages of the benchmark clusters anchor the calcium and lithium age relations, accurate ages are important to the accuracy of **BAFFLES**; the offset in the posteriors scales with the factor by which the ages are modified. For both lithium and calcium, modifying the age of a single cluster by  $\pm 1\sigma$ , tends to change the median age derived by **BAFFLES** by  $\lesssim 3\%$ . Systematically shifting all the cluster ages in the same direction by  $\pm 1\sigma$  shifts the derived median ages of posteriors by a comparable amount,  $\lesssim 20\%$ .

### 2.1. Calcium benchmark clusters

Ages, stellar  $R'_{HK}$  values, and stellar  $B - V$  values used in this work for calcium were compiled by [Mamajek & Hillenbrand \(2008\)](#), though here separately reported measurements for the same star are averaged together (though this had little effect on our fits). Adopted ages for the benchmark clusters were mostly identical to those adopted by [Mamajek & Hillenbrand \(2008\)](#), except we used more recent age estimates of 24 Myr for  $\beta$  Pic and 45 Myr for Tuc/Hor from [Bell et al. \(2015\)](#), 10 Myr for Upper Scorpius from [Pecaut & Mamajek \(2016\)](#), and  $\sim 700$  Myr for Hyades from [Brandt & Huang \(2015\)](#); [Gossage et al. \(2018\)](#).

### 2.2. Lithium benchmark clusters

We compiled  $B - V$  and Li EW measurements from the multiple sources listed in Table 1. For duplicate stars we averaged measurements, and used the measurement if there was one measurement and one upper limit.

We used the stellar  $B - V$  values if they were provided for individual stars; otherwise we used  $B - V$  magnitudes compiled from the literature in Table 3, which are all in nearby moving groups with negligible reddening. For stars in clusters with significant reddening, we converted spectral type or  $T_{eff}$  to  $B - V$ . [Soderblom et al. \(1993\)](#) (Pleiades), [Jones et al. \(1997\)](#) (M34), and [Jones et al. \(1999\)](#) (M67) reported dereddened  $(B - V)_0$ , while [Randich et al. \(2001\)](#) (IC2602), [Anthony-Twarog et al. \(2018\)](#) (M35), [Ford et al. \(2001\)](#) (Coma Ber), and [Pace et al. \(2012\)](#) (Hyades) gave uncorrected  $B - V$ . NGC2264 lithium equivalent widths from [Tobin et al. \(2015\)](#) were not accompanied by  $B - V$  values, so we converted spectral type to  $B - V$  using the conversion in [Pecaut & Mamajek \(2013\)](#). For  $\alpha$  Per ([Balachandran et al. 2011](#)), we converted  $T_{eff}$  (which had been inferred from  $V - K$  color) to  $B - V$  also using the conversion in [Pecaut & Mamajek \(2013\)](#). For  $\beta$  Pic ([Mentuch et al. 2008](#); [Shkolnik et al. 2017](#)), a moving group  $\lesssim 100$  pc, we expect negligible reddening, and we took the observed  $B - V$  colors (given in Table 3) to be the intrinsic colors.

Close binaries present an issue since it is not always clear whether the  $B$  magnitude,  $V$  magnitude, or lithium absorption are resolved or from the combined systems. To avoid this issue, for  $\beta$  Pic moving group members we removed binaries from [Mentuch et al. \(2008\)](#): AZ Cap, CD-64 1208, GJ 3305, AT Mic A, AT Mic B, HIP 23418, LP 476-207 and binaries from [Shkolnik et al. \(2017\)](#): PM J01071-1935, LP 467-16, Barta 161 12, BD+17 232, CD-44 753, PM J05243-1601, GSC 06513-00291, MCC 124, TWA 22, CD-64 1208, AT Mic, GR\* 9. We also removed stars with poorly measured values of  $B$  or  $V$  magnitudes (uncertainty  $\gtrsim 0.15$  mags) from [Mentuch et al. \(2008\)](#): HD 164249B and from [Shkolnik et al. \(2017\)](#): FK Psc, BD+30 397, EXO 0235.2-5216, 2MASS J05200029+0613036, RX J0520.5+0616, Smethells 20, CD-31 16041, TYC 6872-1011-1, TYC 7443-1102-1, BD-13 6424, UCAC4 396-055485.

For M67, we removed stars identified by [Jones et al. \(1999\)](#) as being less secure members, as well as potentially unresolved binaries. In many cases Li EW is given without measurement error, with the exception of [Mentuch et al. \(2008\)](#) and [Randich et al. \(2001\)](#), which did provide individual errors. For Coma Ber, we also omitted stars [Ford et al. \(2001\)](#) identified as non-members or spectroscopic binaries.

## 3. METHODS

**BAFFLES** is a Bayesian framework which finds a star's posterior age probability density function (PDF) from input of  $R'_{HK}$ , or  $B - V$  combined with Li equivalent width, or all three. We calibrate the method using datasets of the benchmark clusters discussed above.

### 3.1. Calcium

Using the cluster data, we first present an age posterior from an  $R'_{HK}$  measurement of calcium emission.

#### 3.1.1. Framework

We seek an expression that returns an age PDF for a single star given an  $R'_{HK}$  measurement, which is the posterior

$$p(t|\hat{r}) \quad (1)$$

where  $t$  is the age and  $\hat{r}$  is the measured value of  $R'_{HK}$  for a single star, with measurement uncertainty of  $\sigma_{\hat{r}}$ . We evaluate this posterior using Bayes' rule

$$p(\theta|D) = \frac{1}{Z} p(D|\theta) p(\theta) \quad (2)$$

where the four terms are posterior ( $p(\theta|D)$ ), evidence ( $Z$ ), likelihood ( $p(D|\theta)$ ), and prior ( $p(\theta)$ ), functions of the data ( $D$ ) and parameters of the model ( $\theta$ ).

For calcium the parameters of our model,  $\theta$ , are the age  $t$  and the true value of  $R'_{HK}$  for the star,  $r$ , while the data,  $D$ , are our measured value of  $R'_{HK}$ ,  $\hat{r}$ . We also assume the evidence,  $Z$ , is a constant. With these terms Bayes' rule becomes

$$p(r, t|\hat{r}) \propto p(\hat{r}|r, t)p(r, t). \quad (3)$$

Our knowledge of the true value of  $R'_{HK}$  for the star,  $r$ , comes from a measurement with an associated measurement error:  $\hat{r}$  and  $\sigma_{\hat{r}}$ . In the case of  $R'_{HK}$  the astrophysical scatter among stars in a single cluster is generally much larger than the measurement uncertainty for any one star. Thus, our model should incorporate both the overall trend that for clusters of different ages, average  $r$  ( $\mu_r$ ) decreases with increasing age, and that there is a scatter about this mean at a single age ( $\sigma_r$ ). We expect both these terms to evolve with time, and express them as functions  $\mu_r = f(t)$  and  $\sigma_r = g(t)$ . If the scatter is fit by a Gaussian, our prior on  $r$  then becomes

$$p(r|t) = \mathcal{N}(r|f(t), g(t)) \quad (4)$$

while the prior on  $t$ ,  $p(t)$ , is flat for a uniform star formation rate, uniform in linear age between 1 Myr and 13 Gyr. Although the star formation rate increases at ages older than  $\sim 8$  Gyr, this prior is a reasonable approximation for ages  $< 5$  Gyr (Snaith et al. 2015), which also corresponds to the oldest benchmark clusters we utilize. Higher-mass stars have main sequence lifetimes shorter than the full range of our prior. A stellar lifetime prior is a complicated function of  $B - V$ , especially since stars of a given mass evolve in color over time. Rather than commit to a particular set of isochrones, we choose to keep **BAFFLES** as empirically-driven as possible. An isochrone-based age prior can be applied to a **BAFFLES** posterior once generated, and we advise caution when considering an age posterior with significant probability at very large ages for higher-mass stars. Together, these define a joint prior for our problem

$$p(r, t) = p(r|t)p(t) = \mathcal{N}(r|f(t), g(t))p(t). \quad (5)$$

In the general case of measurements with Gaussian error bars, likelihood would be given by a normal distribution,

$$\mathcal{L}(\hat{r}|r) = \mathcal{N}(\hat{r}|r, \sigma_{\hat{r}}). \quad (6)$$

However, for  $R'_{HK}$  we assume that the uncertainty is negligible, especially given the larger astrophysical scatter,  $\sigma_r$ . Therefore we instead take the likelihood to be a delta function,

$$p(\hat{r}|r) = \mathcal{L}(\hat{r}|r) = \delta(r - \hat{r}). \quad (7)$$

We have no direct data on the age,  $t$ , but it is a parameter of our model, so we rewrite the likelihood as

$$p(\hat{r}|r) = p(\hat{r}|r, t) = \delta(r - \hat{r}). \quad (8)$$

We can now rewrite Equation 3, the joint posterior over  $r$  and  $t$ , as

$$p(r, t|\hat{r}) \propto \delta(r - \hat{r})\mathcal{N}(r|f(t), g(t))p(t) \quad (9)$$

and after marginalizing over  $r$  and taking  $p(t)$  to be a constant, we solve for  $p(t|\hat{r})$ ,

$$p(t|\hat{r}) \propto \int p(r, t|\hat{r})dr = \mathcal{N}(r|f(t), g(t)). \quad (10)$$

If the astrophysical scatter is Gaussian, then by determining functional forms for  $f(t)$  and  $g(t)$  from our cluster data we can evaluate the likelihood and produce a posterior for any star given a measurement  $\hat{r}$ . In Section 3.1.4, however, we present evidence that the scatter is not well-modeled by a Gaussian, and introduce a new numerical function to describe the prior on  $r$ .

### 3.1.2. The Color Dependence of $R'_{HK}$

The derived quantity  $R'_{HK}$  is formulated to be independent of  $B - V$  color, which is accomplished by using two polynomials in  $B - V$  to convert the raw  $S_{HK}$  value into  $R'_{HK}$ . To determine the extent to which  $R'_{HK}$  is in fact independent of color we initially considered using a two-parameter linear fit to the cluster  $R'_{HK}$  as a function of  $B - V$  (similar to Mamajek & Hillenbrand (2008)), since the slopes seemed non-negligible. However, since our dataset included many clusters with only a handful of calcium measurements, the fit slopes were poorly determined, and the fits crossed frequently, a non-physical outcome. As in the right panel of Figure 1, linear fits to the clusters resulted in non-monotonic changes in  $R'_{HK}$  over time, especially in the reddest and bluest regions of our  $B - V$  range. Although Mamajek & Hillenbrand (2008) used linear fits for each cluster, they interpolated cluster means for solar  $B - V$  ( $\sim 0.65$ ) only. For solar  $B - V$ , the cluster means are still monotonic, something not true for other  $B - V$  values that were included in our study.

There is a significant improvement in  $\chi^2$  from the linear fit to the constant fit, dropping from 554 (constant) to 423 (linear), assuming a constant measurement error for each star of 0.1 dex, as estimated by Mamajek & Hillenbrand 2008, which from the Bayesian information criterion presents very strong evidence in favor of the linear model ( $\Delta\text{BIC} = 83.3$ ). Nevertheless, we find the behavior of the linear fits in the right panel of Figure 1 to be unphysical, where at the reddest and bluest ends the evolution in  $R'_{HK}$  is non-monotonic, and implies wild

swings in calcium activity as a function of age, based on a handful of datapoints in each cluster, and poor sampling across the entire  $B - V$  range. As a result, to avoid over-fitting sparse data, we adopted a constant fit for  $R'_{HK}$ , where each cluster is represented by the median value of  $R'_{HK}$ , with no  $B - V$  dependence. A constant fit has the advantage of capturing the monotonic decrease in  $R'_{HK}$  while remaining the simplest fit. Mamajek & Hillenbrand (2008) advocate determining age from  $R'_{HK}$  through an age-activity-rotation relation, the effect of which is a significant  $B - V$  dependence on  $R'_{HK}$  for objects of similar ages (see their Figure 11), which varies by  $\sim 0.15$  dex across  $B - V$ . As there are limited  $R'_{HK}$  measurements in benchmark clusters it is currently difficult to confirm this behavior of  $R'_{HK}$  as a function of color. In fact, more direct solutions to a  $B - V$  dependence of  $R'_{HK}$  would be to either re-determine the polynomial parameters or to fit directly in  $S_{HK}$ , and either would likely require a larger dataset than that presented here.

### 3.1.3. $R'_{HK}$ as a function of age

From the fits above we have nine cluster ages and their respective mean  $\log(R'_{HK})$  values, which we use to find the mean  $\log(R'_{HK})$  at all ages covered by our prior,  $\mu_r = f(t)$ . We fit  $\log(R'_{HK})$  as a function of age with a second-order polynomial, constrained to be monotonically decreasing, and where each cluster in the fit is weighted by the number of stars it contains. Figure 2 shows this fit against the median value of each cluster, with plotted error bars indicating the standard deviation in each cluster. Our fit is consistent with polynomial fits from previous authors. Mamajek & Hillenbrand (2008) use linear fits for finding each cluster's mean  $R'_{HK}$  as a function of  $B - V$ , and then fit a third-order polynomial to age, based on the value of each cluster's linear fit evaluated at solar  $B - V$  of 0.65. The largest discrepancies between the two fits are, unsurprisingly, at ages lower than that of the youngest benchmark cluster (Upper Sco) and larger than that of the oldest (M67). Soderblom et al. (1991) experimented with several different second-order polynomials, correcting for disk heating and a uniform star formation rate.

### 3.1.4. Astrophysical Scatter

We next examine the astrophysical scatter of  $R'_{HK}$  about the mean,  $\sigma_r = g(t)$ . We begin by computing the residuals of  $R'_{HK}$  for every star in a cluster to the median value for all stars in the cluster. The standard deviations of these residuals are plotted in Figure 3, where uncertainty in the standard deviation ( $\sigma_m$ ) of the  $m$ 'th cluster with  $N_m$  stars is given by the equation appropriate for gaussian scatter,  $\pm \frac{\sigma_m}{\sqrt{2N_m - 2}}$ . There is some

evidence that the scatter between 20-200 Myr is larger than the scatter for younger or older stars. This is reminiscent of Figure 1 of Gallet & Bouvier (2013), where solar-type stars spin up between  $\sim 10$ -50 Myr as they contract when approaching the main sequence, and the dispersion in rotation rate between the fast-rotators and slow-rotators in a single cluster increases, compared to stars younger than 20 Myr or older than 200 Myr. We investigated using a Gaussian or inverted parabola to fit the data, but we don't have strong evidence that such a fit is justified. The clusters with the most measurements, Pleiades, Hyades, and M67, show the strongest evidence for a change in the standard deviation with time. However, the clusters Upper Sco, UCL+LCC,  $\beta$  Pic, Tuc/Hor,  $\alpha$  Per, all have few stars (8, 8, 6, 6, and 12 respectively), making the standard deviations not well-determined. As a result we treat  $g(t)$  as a constant, and note that larger datasets with more stars in these young clusters would be needed to precisely measure time-dependent behavior.

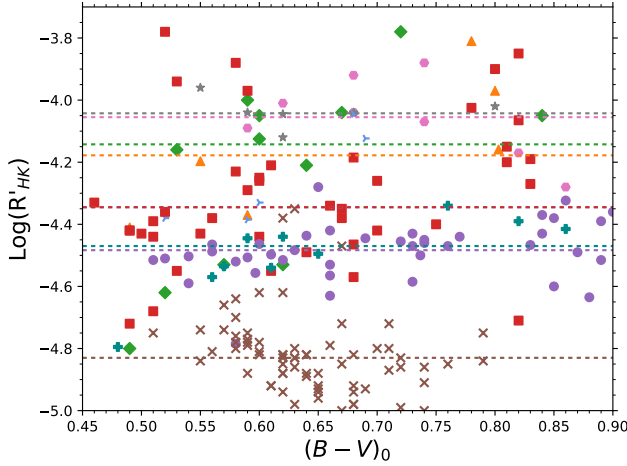
We instead compute the residuals for each star with respect to the fit  $f(t)$ , and observe that these residuals, while somewhat symmetric, are not well-fit by a Gaussian (the dashed gray curve in Figure 4). In particular, the best-fit Gaussian underestimates the peak and is significantly wider at  $\sim 1\sigma$  compared to the data. We thus return to Equation 4, and replace the normal distribution in our prior with a new numerical function,

$$p(r|t) = \mathcal{H}(r|f(t)) \quad (11)$$

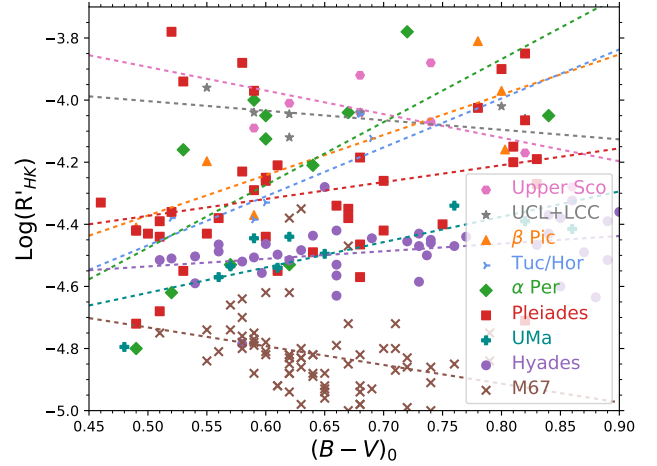
which has a mean  $f(t)$ . The amplitude of the scatter is encoded by  $\mathcal{H}$  itself, and since we take  $g(t)$  to be a constant, the shape of  $\mathcal{H}$  does not change over time, only its mean.

To evaluate  $\mathcal{H}$ , we fit a function to the smoothed CDF of the residuals, as in the right panel of Figure 4, capturing the non-Gaussian shape of the astrophysical scatter. The tails of the PDF are constrained to decrease exponentially out to  $\sim 4$  standard deviations and then are fixed at zero. We perform the smoothing with a Savitzky-Golay filter, which fits successive windows with a 3rd-order polynomial, so as to remove jumps in the function from star to star, but without significantly increasing the width of the distribution, and the final function is a good fit to the data (left panel of Figure 4). We normalize the final  $\mathcal{H}$  distribution so it has an integral of unity. Then, since we find  $\mathcal{H}$  to be slightly asymmetric with a median of 0.0026 dex, we shift the distribution so that its median has a value of zero.

The numerical fit  $\mathcal{H}$  is one of many possible implementations of the prior function. Other choices with

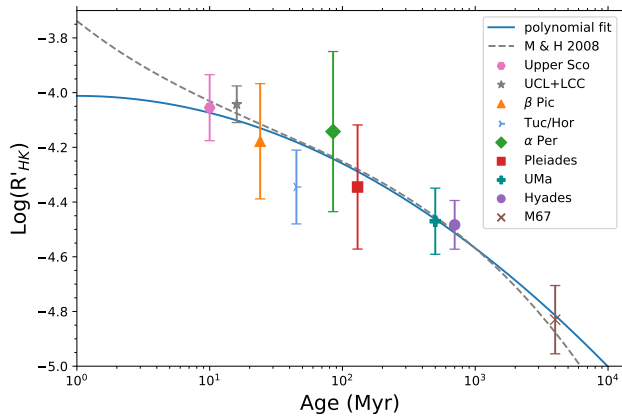


(a) One-parameter fits



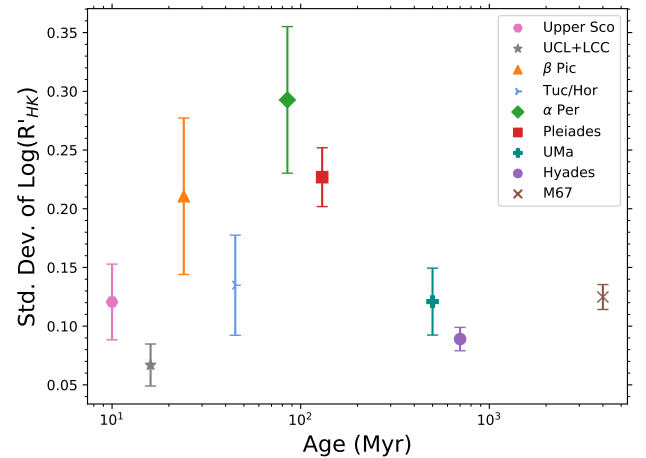
(b) Two-parameter fits

**Figure 1.** (left) One-parameter fits with no color dependence avoid overfitting. (right) linear fits to the  $B - V$  dependence of  $R'_{HK}$  for each cluster are dominated by outliers for sparse datasets, and become non-monotonic at the blue and red ends. We adopt the one-parameter fit in the final prior function  $f(t)$ .



**Figure 2.** Fit for the mean  $R'_{HK}$  as a function of age using cluster median values. Error bars on each point represent the standard deviation of  $\log(R'_{HK})$  in each cluster, while the fit is weighted only by the number of points in each cluster. The observed variation is consistent with  $R'_{HK}$  decreasing monotonically with time. The solid blue line is our second-order polynomial fit to cluster median activity, which is very similar to the overplotted third-order polynomial (gray dashed line) from Mamajek & Hillenbrand (2008), based on a nearly identical dataset.

wider tails (such as the Student's-t distribution or the Lorentzian distribution) also partially capture the non-Gaussian behavior. We found the best fit with the Student's-t distribution, which came closest to matching the residual distribution, and found no significant difference between it and the empirical function  $\mathcal{H}$  on our final age posteriors.



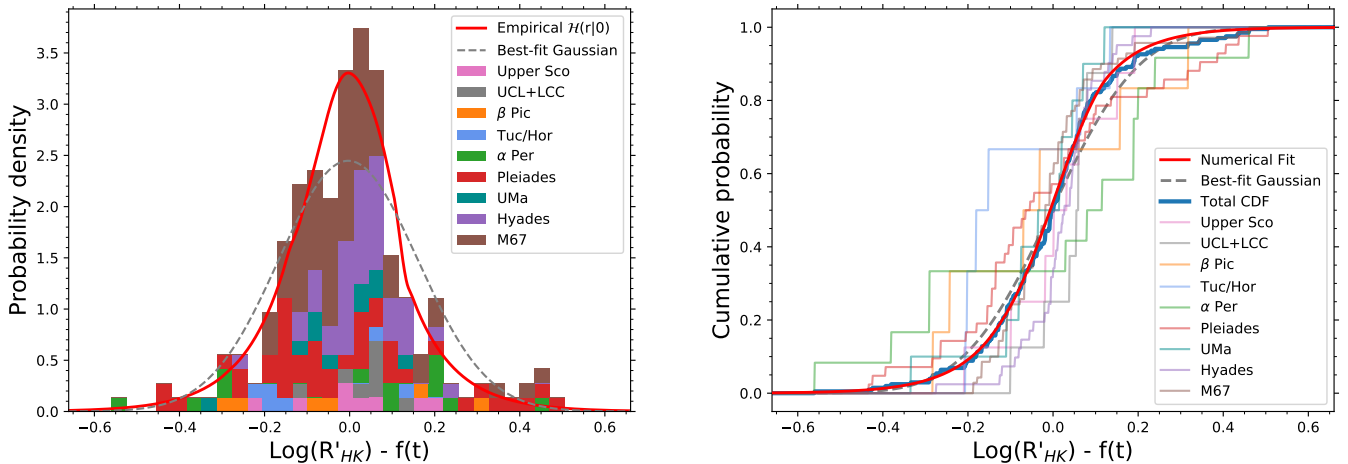
**Figure 3.** Standard deviations of the residuals to the median of each calcium cluster, and computed uncertainties. Scatter in  $R'_{HK}$  over time appears to increase between 20 and 200 Myr, suggestive of a similar effect in the scatter of rotation rate as a function of age (Gallet & Bouvier 2013). While the three clusters with the most measurements, Pleiades, Hyades, and M67 show a significant offset at  $\sim 100$  Myr compared to  $>700$  Myr, many of the remaining clusters have fewer than 10 stars with calcium measurements, and as such poorly determine the standard deviation. More measurements of stars in these young clusters are needed to robustly map out any age dependence.

### 3.1.5. Calcium posterior

Rewriting Equation 3, we then have an expression for our posterior given by

$$p(r, t|\hat{r}) \propto \delta(r - \hat{r})\mathcal{H}(r|f(t))p(t) \quad (12)$$





**Figure 4.** (left) A histogram of residuals of all cluster stars to the fit  $f(t)$ . The distribution appears significantly non-Gaussian, as the best-fit Gaussian (dashed gray line) has a lower peak and overpredicts the number of stars at  $\sim 1\sigma$ . Instead, we construct a numerically determined function from our data (red line,  $\mathcal{H}(r|f(t))$ ). (right) CDF of the residuals, from which we construct the empirical function  $\mathcal{H}$ .

where  $f$  and  $\mathcal{H}$  are determined from our cluster datasets above, and  $p(t)$  is constant for a uniform star formation rate. We can then rewrite our calcium age posterior in equation 10 using our function  $\mathcal{H}$  as

$$p(t|\hat{r}) \propto \mathcal{H}(\hat{r}|f(t)). \quad (13)$$

We implement this method with a 1,000-element array uniformly sampled in log age from 1 Myr to 13,000 Myr, and evaluate Equation 13 at each point in the array for the  $\hat{r}$  of a single star. These probabilities are then normalized to integrate to unity (accounting for uneven bin sizes), and provide the age posterior for that star.

### 3.2. Lithium

Overall, we follow the same procedure for lithium as calcium, with two major differences: lithium depletion has a strong  $B - V$  color dependence (unlike the  $R'_{HK}$  metric for calcium which was specifically formulated to be independent of color), and lithium measurements can have significant error bars or upper limits.

#### 3.2.1. Framework

As with calcium, lithium equivalent width decreases with time, with an astrophysical scatter about this trend for objects of the same age. Following the framework we developed for calcium, we define functions for the mean equivalent width as a function of time ( $i$ ), the standard deviation about that mean ( $j$ ), and shape of the distribution function about the mean ( $\mathcal{K}$ ). These three functions are the lithium equivalents of  $f$ ,  $g$ , and  $\mathcal{H}$  used above for calcium. The mean  $i(t, b)$  is decidedly a function of both age ( $t$ ) and  $B - V$  color ( $b$ ). However,

when we consider the log of the equivalent width ( $l$ ), the scatter about this mean appears to be independent of color, so we define  $j(t)$  as a function of time only. The parameters of our model are  $l$ ,  $b$ , and  $t$ , requiring a joint prior in all three for Bayes' equation,  $p(l, b, t)$ ,

$$p(l, b, t) = p(l|b, t)p(b)p(t) = \mathcal{K}(l|i(t, b), j(t))p(b)p(t) \quad (14)$$

where  $p(b)$  is the prior on  $B - V$  color, which we take to be flat, since we will generally have a precise measurement of color for a given star, and  $p(t)$  is the prior on age, again flat for a constant star formation rate.

We assume a Gaussian likelihood for both  $l$  and  $b$ , given measurements of  $\hat{l}$  and  $\hat{b}$ , and measurement errors of  $\sigma_{\hat{l}}$  and  $\sigma_{\hat{b}}$ ,

$$\mathcal{L}(\hat{l}, \hat{b}) = \mathcal{N}(10^{\hat{l}}|10^l, \sigma_{\hat{l}})\mathcal{N}(\hat{b}|b, \sigma_{\hat{b}}) \quad (15)$$

where 10 is raised to the power of  $l$  and  $\hat{l}$  since while  $l$  is a log quantity, measurement errors are typically quoted in linear units (e.g. mÅ). Combining likelihood and prior, and again assuming the evidence to be constant, we obtain an expression for the posterior

$$p(l, b, t|\hat{l}, \hat{b}) \propto \mathcal{N}(10^{\hat{l}}|10^l, \sigma_{\hat{l}})\mathcal{N}(\hat{b}|b, \sigma_{\hat{b}})\mathcal{K}(l|i(t, b), j(t)) \quad (16)$$

which, when marginalized over  $l$  and  $b$ , gives the marginalized posterior on age,

$$p(t|\hat{l}, \hat{b}) = \int \int p(l, b, t|\hat{l}, \hat{b}) dl db. \quad (17)$$

As with calcium, all that remains is to define the functions  $i(t, b)$ ,  $j(t)$ , and  $\mathcal{K}(l|i(t, b), j(t))$  from our cluster data.

### 3.2.2. The Color Dependence of Li EW

For a single cluster the log of the equivalent width,  $l$ , appears as a Gaussian or parabola as a function of  $B - V$ , as shown in Figure 5. The reddest stars and bluest stars in the cluster tend to have the smallest values for lithium EW while intermediate  $B - V$  stars (G stars) have the largest lithium EW. This behavior is the result of two primary processes. First, redder, lower-mass stars have deeper convective envelopes so more quickly convect lithium to deeper, hotter layers of the star where it is fused, resulting in faster depletion of lithium. Meanwhile, blue stars have hotter photospheres so there are fewer lithium atoms in the ground state to absorb 6708 Å light. Stars are expected to have uniform lithium abundance ( $N(\text{Li})$ ) at formation, but this translates to a range of Li EW values as a function of color, given the different photospheric temperatures across this range. In addition to the Gaussian shape, the ‘lithium dip’ is observed for stars between  $B - V$  of  $\sim 0.36$  and  $\sim 0.42$  (6900K and 6600K) for stars that are  $\gtrsim 500$  Myr, where there is a decrease in lithium abundance in this narrow range compared to stars on either side of the dip (Boesgaard & Tripicco 1986; Balachandran 1995). A suggested explanation for the lithium dip is that at the hot end of the dip, magnetic field strength is increasing with decreasing stellar mass, spinning down the outer layers of the star and creating turbulent mixing from internal shear between these layers and the faster-rotating core. Then moving to the cooler end of the dip corresponds to the rise of internal gravity waves, which more efficiently spin down the core, so that there is less turbulent mixing (Talon & Charbonnel 2010). Under this model, surface lithium is preferentially destroyed in the narrow region of the lithium dip, while it is preserved on either side.

For each cluster, we simultaneously fit both the mean and the standard deviation of  $l$  at a single value of  $t = t_m$ , where  $t_m$  is the age of the given cluster  $m$ .

We take these fits,  $i'(t_m, b)$  and  $j'(t_m)$ , as preliminary values for the mean,  $i(t, b)$ , and standard deviation,  $j(t)$ , evaluated at the age of the cluster. We assume a functional form of a second-order polynomial for  $i'(t_m, b)$ , while at a single age the standard deviation,  $j'(t_m)$ , is a constant that does not depend on color. To fit these parameters we assumed a Gaussian likelihood, which for lithium detections takes the form

$$p(\hat{l}|t_m, b) = \mathcal{N}(\hat{l}|l, \sigma_l) = \frac{1}{\sqrt{2\pi}j'(t_m)} e^{-\frac{(l-i'(t_m, b))^2}{2j'(t_m)^2}}. \quad (18)$$

For lithium upper limits ( $\hat{u}$ ) we represent the likelihood as the integral of the Gaussian function from  $-\infty$  to the upper limit  $\hat{u}$ ,

$$p(\hat{u}|t_m, b) = \int_{-\infty}^{\hat{u}} \frac{1}{\sqrt{2\pi}j'(t_m)} e^{-\frac{(l-i'(t_m, b))^2}{2j'(t_m)^2}} dl, \quad (19)$$

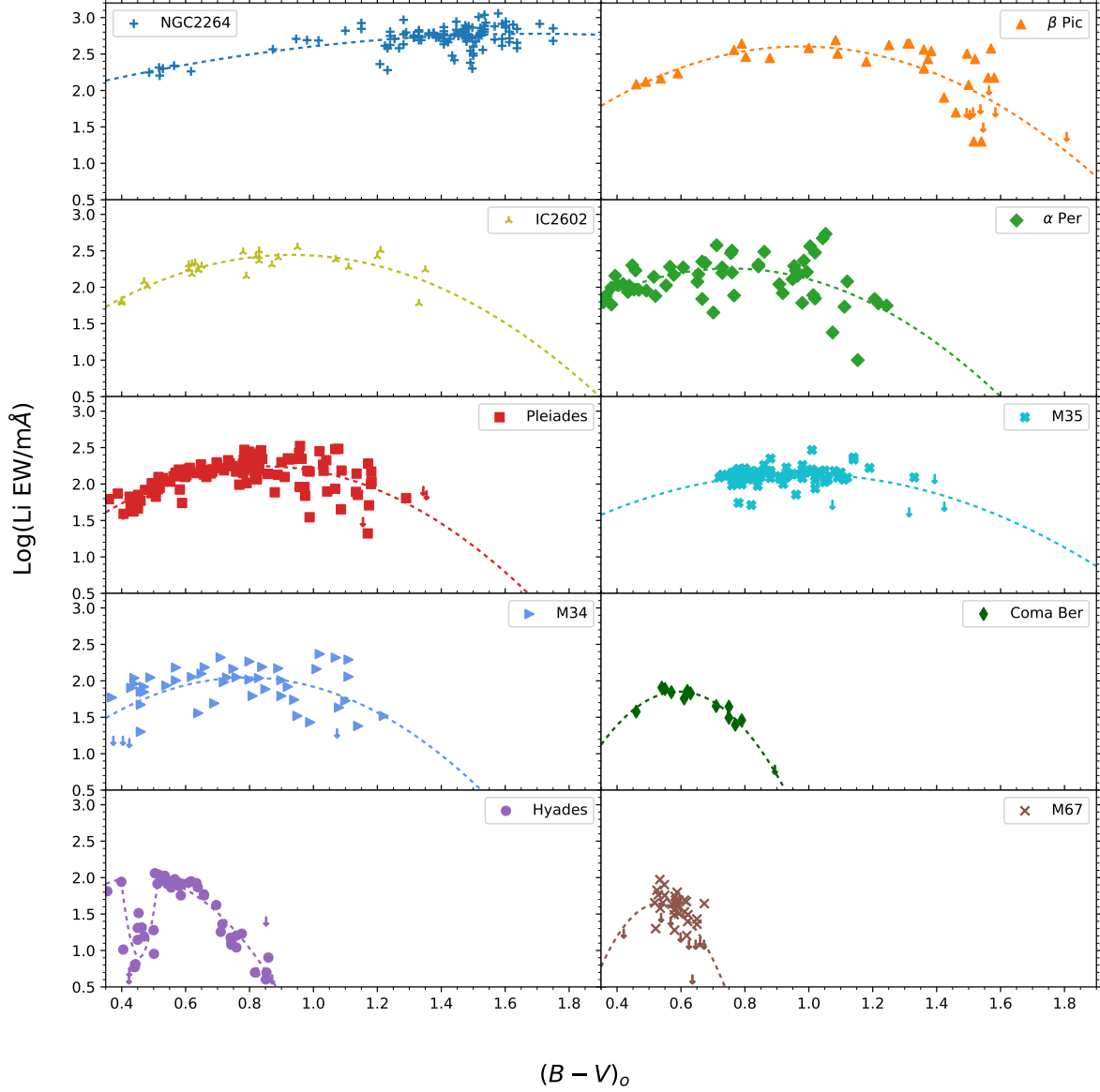
and then fit these four parameters (three for the polynomial in  $b$  that defines  $i'(t_m, b)$ , and one for the standard deviation,  $j'(t_m)$ ). The fit itself is performed by assigning one of these likelihoods to each star, based on whether there is a lithium measurement or upper limit, then maximizing the product of likelihoods over all cluster stars.

The lithium dip is clear in the  $\sim 700$  Myr Hyades dataset, so we fit an inverted Gaussian to the dip ( $0.39 < B - V < 0.52$ ), and a second-order polynomial to the stars outside the dip. There is no clear evidence for a lithium dip at younger ages in M34 ( $\sim 200$  Myr), and by  $\sim 4$  Gyr, stars have evolved off the main sequence leaving no stars bluer than  $B - V \approx 0.5$  in M67. Fits to each cluster are shown in Figures 5 and 6.

### 3.2.3. Li EW as a function of age

Unlike  $R'_{HK}$ , Li EW varies substantially across both age and  $B - V$ . As a result, the decline in lithium equivalent width as a function of age must be fit across multiple slices of  $B - V$ . The polynomials fit to each cluster (Fig 5) define our preliminary fits  $i'(t_m, b)$  as a function of  $B - V$  at the age for each individual cluster ( $t_m$ ). We examine 64  $B - V$  slices uniformly spaced between  $B - V$  of 0.35 and 1.9. At each slice  $n$ , then, we have 10 values of  $i'(t_m, b)$  corresponding to our 10 cluster datasets to which we add two additional points from primordial Li EW and Blue Lithium Depletion Boundary (described below), and from these we determine the 64 fits  $i(t, b_n)$  as a function of age.

To help constrain the young end of the fits of Li EW and age, we approximate primordial Li EW using the MIST model isochrones (Choi et al. 2016) in conjunction with our NGC2264 fit. In particular, we seek to extend the fit to this  $\sim 5$  Myr cluster to the first age point in our grid, 1 Myr. At every  $B - V$  value we determine the corresponding effective temperature using the conversions from Pecaut & Mamajek (2013); then we find the Li abundance,  $N(\text{Li})$ , and initial stellar mass at 5 Myr from the MIST isochrones. We then find the Li abundance from the same initial mass star using the 1 Myr isochrones.  $T_{eff}$  and Li abundance are converted to Li equivalent width using the curve of growth in Soderblom et al. (1993) for  $T_{eff} > 4000K$  and Zapatero Osorio et al. (2002) for  $T_{eff} \leq 4000K$ . The difference in Li EW

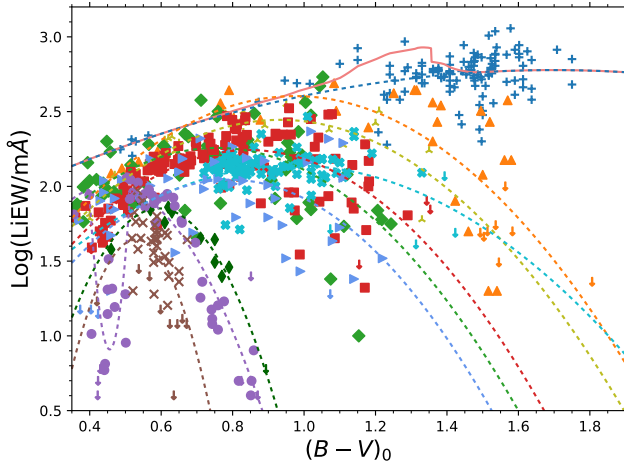


**Figure 5.** Lithium equivalent width measurements for our full dataset, and final fits to each cluster. A second-order polynomial is a reasonable fit at all ages, outside of the lithium dip seen in the Hyades, which we model as a negative Gaussian.

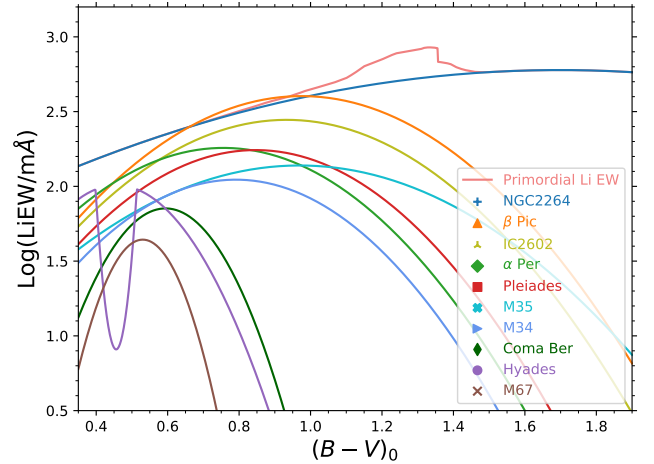
between 1 Myr and 5 Myr is added to the fit to NGC2264 to determine the primordial Li EW at every  $B - V$  value (Figure 6). The found change in Li EW between 1 and 5 Myr is only significant between  $0.8 \lesssim B - V \lesssim 1.4$ , and is negligible elsewhere.

We define the Blue Lithium Depletion Boundary (BLDB) as the  $B - V$  color for which stars redder than this boundary have no detectable lithium absorp-

tion, which we use to help constrain the older and redder range of fits to Li EW against age. Since the redder stars have deeper convective envelopes they burn lithium faster than the bluer stars in the cluster. As a result the nested polynomials of Figure 6 generally get narrower and move blueward over time, and thus the BLDB point moves blueward with increasing age. The BLDB is distinct from the classical lithium depletion

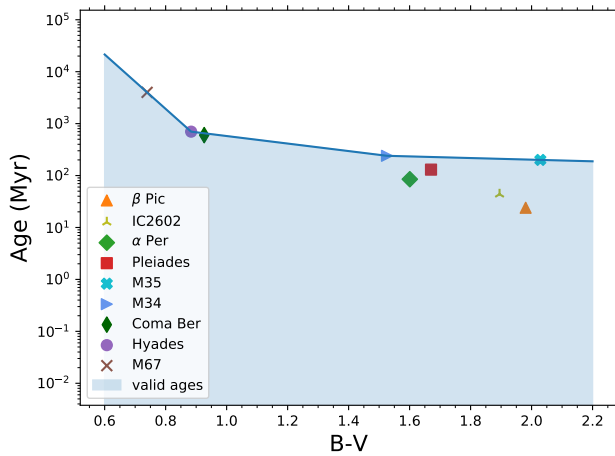


(a) Full lithium dataset and fits to each cluster



(b) Fits only

**Figure 6.** Lithium equivalent width measurements for our full dataset, and final fits to each cluster. As expected, lithium equivalent width decreases monotonically over time, but as a strong function of  $B - V$  color. Primordial Li EW is estimated from MIST isochrones in conjunction with our fit to NGC2264.



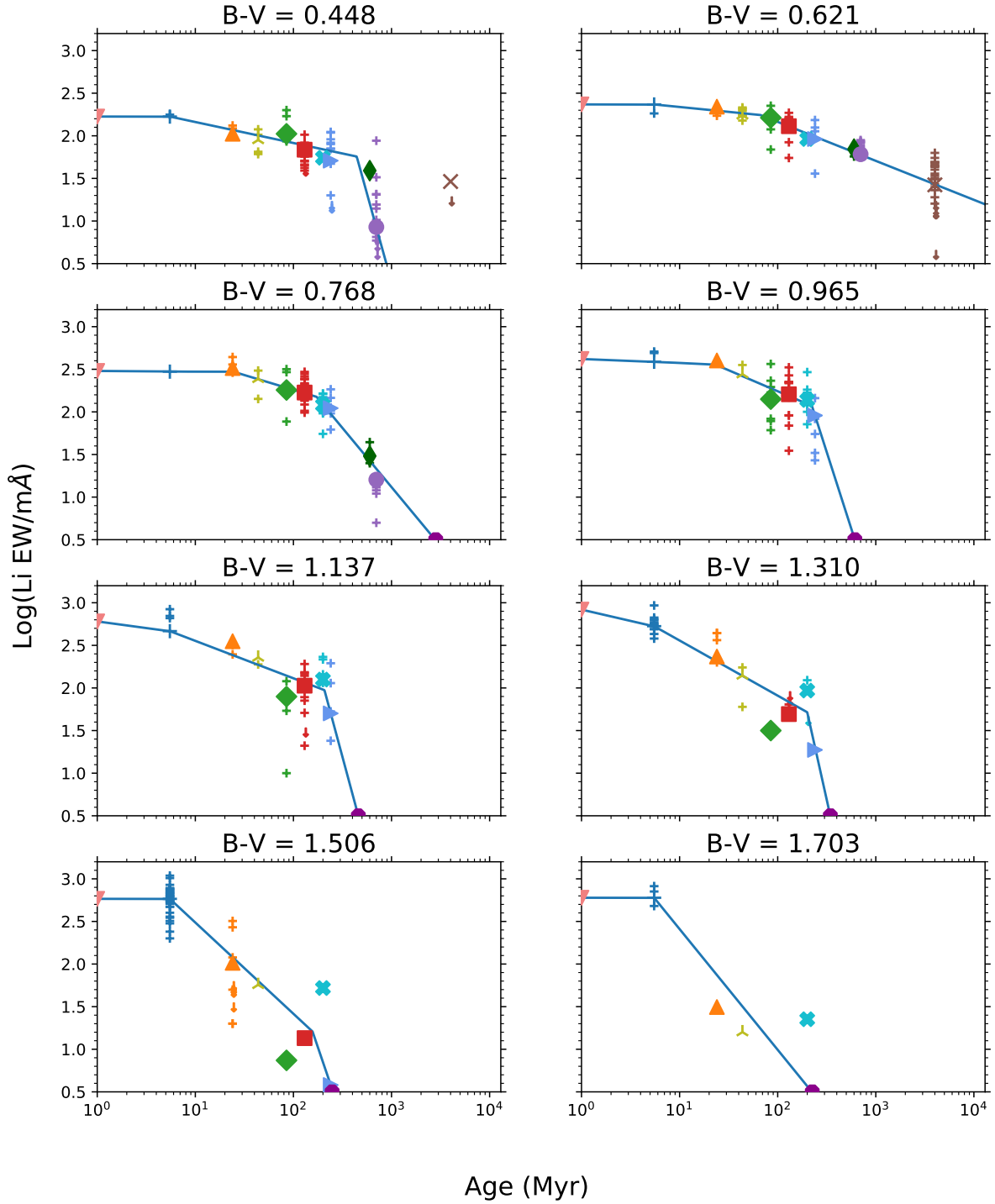
**Figure 7.** We introduce the concept of the Blue Lithium Depletion Boundary (BLDB) – which represents the age at each  $B - V$  slice where lithium equivalent width drops below  $3.2 \text{ m}\text{\AA}$  – to constrain the lithium abundance at the oldest ages. Each point represents the  $B - V$  magnitude where our polynomial fit to each cluster ( $i'(t_m, b)$ ) goes below  $\log(\text{Li EW}) = 0.5$  or  $3.2 \text{ m}\text{\AA}$ , which we adopt as the lowest detectable equivalent width of the lithium line. Redward of the BLDB point, we expect all stars in the cluster have no detectable lithium  $6708 \text{ \AA}$  absorption. We adopt a piecewise linear fit such that all clusters are at or below the fit.

boundary (LDB) which moves redder over time as a cluster’s high-mass brown dwarfs deplete their lithium, while at the same time all brown dwarfs evolve to redder colors as they cool over time, outside the brief deuterium burning phase. We have defined the BLDB in order to add an additional data point to our fits for  $B - V > 0.7$ , most important for constraining the ages of stars

with  $B - V > 1.4$  for which there are fewer literature measurements, especially at older ages. For each  $B - V$  slice redward of 0.7, the fit to BLDB points gives an approximation of maximum age associated with  $\log(\text{Li EW}) = 0.5$ , or  $\text{Li EW} = 3.2 \text{ m}\text{\AA}$  (Figure 7).

For each value of  $B - V$  we use the mean value of  $l, i'(t_m, b_n)$ , from each cluster in addition to the primordial lithium point and BLDB point to fit the intermediate ages between the cluster ages and complete our grid. Unlike calcium, where the fits to individual clusters were independent of  $B - V$ , for lithium there is a strong  $B - V$  dependence, and for redder regions, the fit to the mean equivalent width reaches unphysically small values. When cluster means drop below  $\sim 3 \text{ m}\text{\AA}$  ( $0.5$  on the log scale), we don’t expect any detections, and clusters with  $i'(t_m, b)$  below this value are not included in the fitting process.

As in Figure 8, we fit a 2-4 segment piecewise function to the cluster means, primordial Li EW, and BLDB point. The first segment is always between the Primordial Li EW value and NGC2264 and the fit is constrained to decrease monotonically with age. Additionally, for  $B - V$  slices inside the lithium dip ( $0.41 \leq B - V \leq 0.51$ ), the final piecewise segment is constrained to go through the Hyades point. The locations of the segment breaks (except for the first break at NGC2264) were free parameters. Weights for the cluster means were determined based on the relative proportion of stars the cluster had at a given  $B - V$  slice in relation to the total number of stars. The BLDB point is given uncertainty about 0.15 dex compared to 1 dex for clusters in not well constrained regions. Although for some  $B - V$  ranges



**Figure 8.** Examples of Li EW fits as a function of age  $i(t, b_n)$ , for eight out of 64  $B - V$  slices between 0.35 and 1.9 mags. Stars from each cluster within 0.05 mags of the  $B - V$  slice are shown as small crosses if detections or downward-facing arrows if upper limits. Cluster symbols are as in Figure 6, with an additional magenta BLDB point at  $\text{log}(\text{Li EW})=0.5$ . The cluster means were fit with a flexible piecewise-linear function fixed to the primordial lithium point and NGC2264. Cluster means were weighted to give those with the most stars at each  $B - V$  slice the most weight.

different functional forms were good fits to the decrease in lithium over time, only the piecewise function was flexible enough to capture the shape more generally.

### 3.2.4. Astrophysical Scatter

With our grid of 64  $B - V$  slices and 1000 age slices for mean equivalent width of lithium,  $i(t, b)$ , we next empirically determine the distribution of the residuals,  $\mathcal{K}(l|i(t, b), j(t))$ , as we did with calcium (Figure 9). Residuals are with respect to the value of  $i(t, b)$  evaluated at the age of each cluster and the  $B - V$  value of the star, and upper limits are not considered in this step. As with calcium, we smooth the CDF of the residuals with Savitzky–Golay filters and take the derivative to convert to a PDF. Then we fit exponential functions to the two tails, which we connect with the smoothed PDF, then normalize to have integral unity, defining  $\mathcal{K}(l|i(t, b), j(t))$ . We also center the distribution at zero by subtracting off the residual median value of 0.033, which ensures that  $\mathcal{K}$  does not introduce a systematic bias toward older ages. Unlike calcium, we find no evidence for even a weak dependence on time of the standard deviation of the residuals ( $j(t)$ ). As a result, the shape of  $\mathcal{K}$  is not a function of age or color, while the mean value is.

### 3.2.5. Lithium posterior

Since we see no evidence for an age dependence in the astrophysical scatter, we take  $j(t)$  to be a constant, and slightly rewrite our posterior from Equation 16,

$$p(l, b, t|\hat{l}, \hat{b}) \propto \mathcal{N}(10^{\hat{l}}|10^l, \sigma_{\hat{l}})\mathcal{N}(\hat{b}|b, \sigma_{\hat{b}})\mathcal{K}(l|i(t, b)). \quad (20)$$

To determine the age posterior for a single star, we construct a dense grid covering  $B - V$  from 0.35 to 1.9 and age from 1–13,000 Myr. We use a grid of 64,000 elements (64  $B - V$  x 1000 age, logarithmically spaced in age), with the mean lithium abundance  $i(t, b)$  calculated at each grid point. At each combination of  $(t, b)$ , we first marginalize over  $l$  by multiplying  $\mathcal{K}(l|i(t, b))$  (our prior) by  $\mathcal{N}(10^{\hat{l}}|10^l, \sigma_{\hat{l}})$ , a Gaussian representing the measurement of lithium equivalent width and the associated measurement error, over an array of 1000 elements, logarithmically spaced in  $l$  between 0.5 and 1585mÅ. To do this multiplication, however, we first convert  $\mathcal{K}(l|i(t, b))$  to a function (similar to a log-normal) in linear space as the likelihood for  $\hat{l}$ ,  $\mathcal{N}(10^{\hat{l}}|10^l, \sigma_{\hat{l}})$ , is defined in linear space. If no measurement uncertainty is given we use a default error for  $\sigma_{\hat{l}}$  of 15mÅ, which is noted as a typical error by Soderblom et al. (1993). The products of these functions evaluated at all 1000 points are

then summed, which gives the probability at that specific  $(t, b)$  gridpoint. We then marginalize over  $B - V$  color by weighting each  $(t, b)$  gridpoint by the Gaussian likelihood for  $b$ ,  $\mathcal{N}(\hat{b}|b, \sigma_{\hat{b}})$ , (assuming  $\sigma_{\hat{b}} = 0.01$  mags if no error is given) and summing over the product. To minimize computation time, instead of computing this probability at all  $(t, b)$  locations, we only evaluate gridpoints at 15 sampled values of  $b$  within  $4\sigma_{\hat{b}}$  of  $\hat{b}$ , with all others set to 0.

Having marginalized over both  $l$  and  $b$ , we are left with a marginalized posterior over only age,  $p(t|\hat{l}, \hat{b})$ .

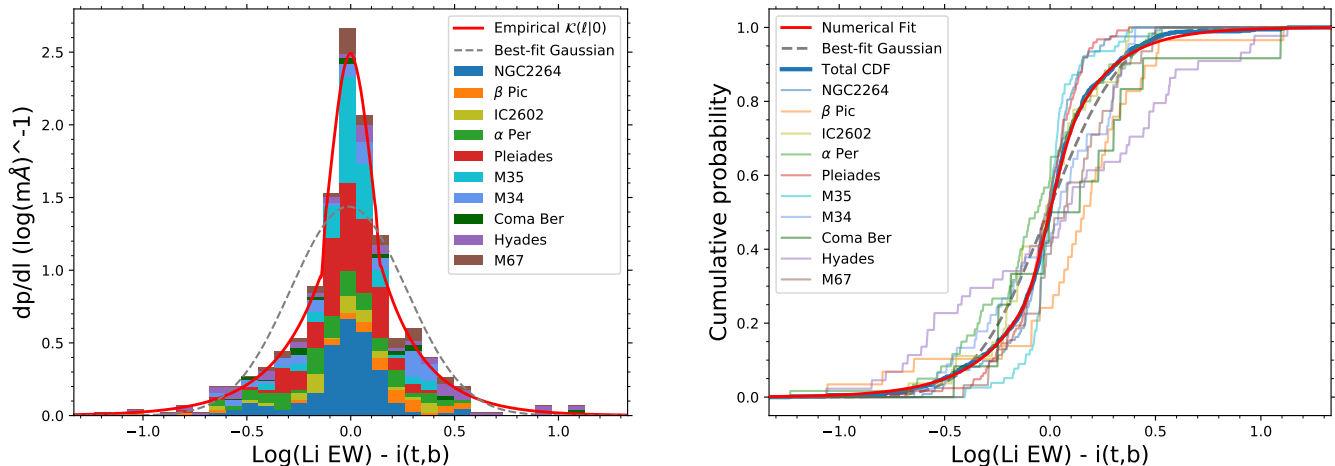
If the measurement  $\hat{l}$  is an upper limit  $\hat{u}$ , we instead integrate  $\mathcal{K}(l|i(t, b))$  from  $-\infty$  to  $\hat{u}$  to find the probability at each  $(t, b)$  gridpoint. Thus upper limits result in a plateau of probability at old ages, with a rapid drop-off toward younger ages.

## 4. VALIDATION

### 4.1. Self-consistency of age posteriors

To test BAFFLES for self-consistency, we compare the posteriors for stars in moving groups and associations to the known ages of the groups, which we show for some clusters in Figures 10 and 11. We compute posteriors for each star in a cluster and then multiply the posteriors together, assuming the age determination for each star is independent, to produce a probability density function for the age of the cluster as a whole. As an additional test, we repeat the process, but beforehand remove the target cluster from the input clusters used to fit  $f(t)$  and  $i(t, b)$  (though leave the cluster in for computing  $\mathcal{H}(r|f(t))$  and  $\mathcal{K}(l|i(t, b))$ ).

BAFFLES ages determined from calcium posterior products matched well with isochronal ages (Figure 10), though have a slight shift toward older ages. We find 6/9 clusters have ages older than their isochronal age, with only UCL+LCC,  $\alpha$  Per, and Hyades being younger. Unsurprisingly, all three clusters lie above the fit in Figure 2. For the nine calcium clusters, Upper Sco, UCL+LCC,  $\beta$  Pic, Tuc/Hor,  $\alpha$  Per, Pleiades, UMa, Hyades, and M67, we find the isochronal age is within the 3.42%, 54.7%, 75.2%, 95.8%, 88.1%, 74.5%, 35.7%, 92.6%, and 66.9% confidence interval, respectively. We would expect two thirds of the clusters to fall within the 68% confidence interval, and nearly all to fall within 95%, but here we have 4/9 within the 68% CI and 8/9 within the 95% CI. Notably, the largest outlier is Tuc/Hor (isochronal age within 95.8% CI) for which there are only 6 calcium stars. From Figure 2, Tuc/Hor appears to be the cluster farthest from the fit, and its distance below the fit pushes the predicted ages of its stars older. Going forward, larger sample sizes at these young ages are needed to better determine the time



**Figure 9.** (left) The numerically determined function  $\mathcal{K}(l|i(t,b))$ , which defines the astrophysical scatter in lithium abundance for stars of the same age and color, is plotted as a red line, along with the residuals of all cluster stars to the fit  $i(t,b)$ , and (right) the corresponding CDF. Similar to calcium, the numerical PDF has exponentially decreasing tails similar to a Gaussian distribution but is significantly more peaked.

evolution of  $R'_{HK}$ . For now we advise slight caution that **BAFFLES** posteriors may slightly underestimate the errors from calcium, especially in less-well-sampled age regimes.

A similar posterior product check with lithium clusters found good agreement with isochronal values (as seen in Figure 11). We find 6/10 clusters have isochronal ages within the 68% confidence interval:  $\beta$  Pic, IC2602, Pleiades, M35, M34, and Coma Ber. NGC2264,  $\alpha$  Per, Hyades and M67 have isochronal ages within the 90.1%, 85.9%, 97.7% and 85.2% confidence intervals, respectively, making 9/10 clusters within the 95% CI. We also find that half the clusters are younger than their isochronal ages (NGC2264, IC2602, Pleiades, M35, M34), while the other half are older, indicating no systematic offset in ages. The offset in the Hyades is likely due to 3 upper limits in the lithium dip with  $\text{log(Li EW)}$  between  $\sim 0.6 - 0.8$  dex, which significantly pull the posterior product to older ages. Computing the age of the Hyades while excluding these 3 upper limits (leaving 44 detections and 3 other upper limits), **BAFFLES** reports an age of 798 Myr, and the isochronal age falls within our 74% confidence interval. Thus, it is likely more work needs to be done to properly model the lithium dip to produce robust posteriors for stars within the dip. As with calcium, a product of posteriors is very sensitive to each individual posterior, so that a single non-member, or errors in color or lithium abundance, can move the product significantly from the age of the group as a whole. We conclude that the age posteriors generated by **BAFFLES** from lithium abundances are consistent with the ages of our benchmark clusters.

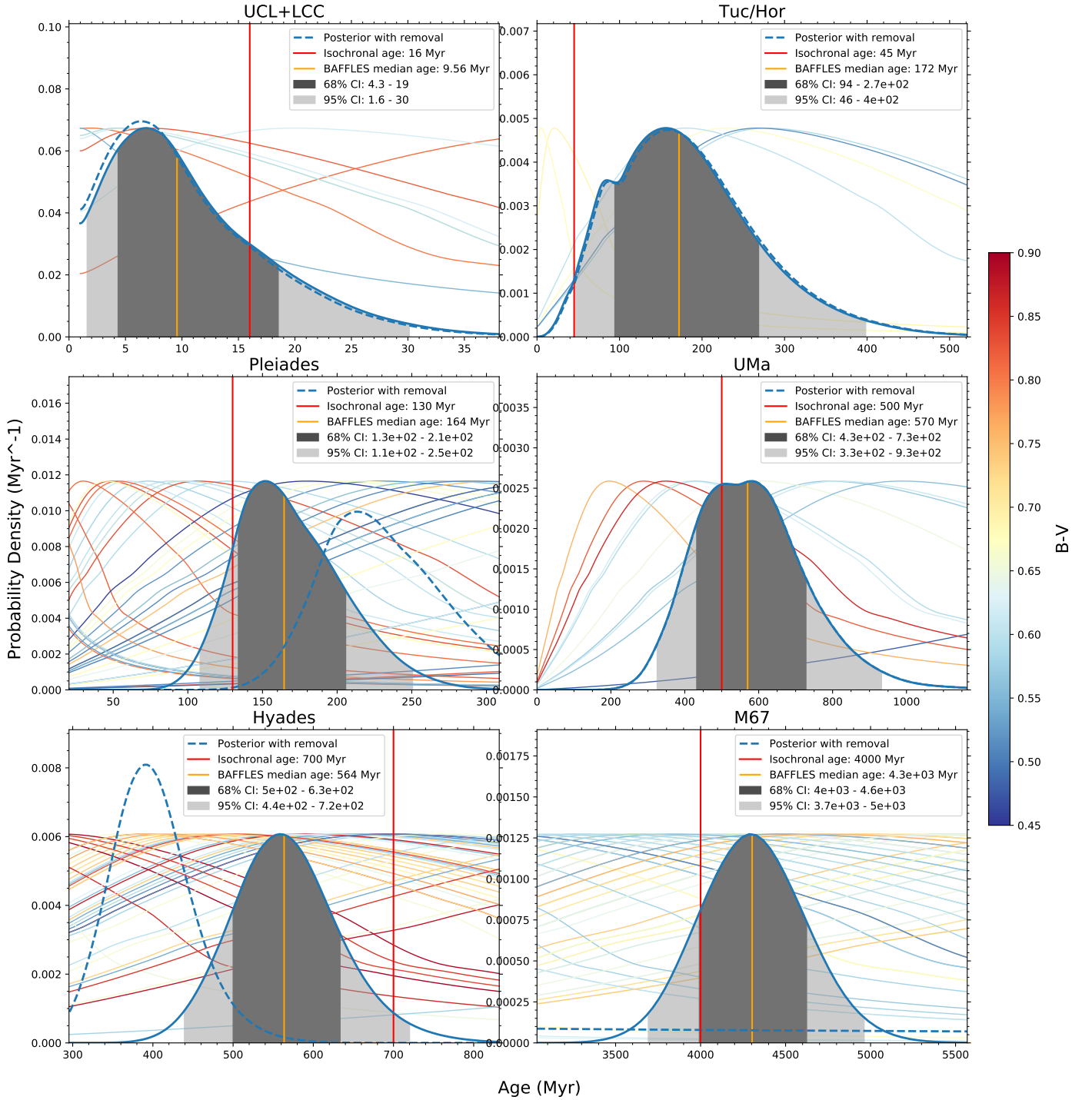
#### 4.2. Moving Groups

We further examine the accuracy of **BAFFLES** age posteriors by considering the ages derived for multiple stars in moving groups not included in our set of benchmark clusters. As before, we compute age PDFs for each star in the moving group and then multiply the PDFs together to find an age for the group as a whole, which we compare to isochronal ages from Bell et al. (2015) (Figure 12).

Lithium equivalent widths for AB Dor and Tuc/Hor are from Mentuch et al. (2008), and  $B - V$  magnitudes used are provided in Table 3 in the appendix. From AB Dor we removed the binaries HD 13482A, HD 13482B, HD 17332B, HD 217379N, HD 217379S and also stars with large  $B - V$  uncertainties (error  $\gtrsim 0.15$  mags): BD+21 418B. From Tuc/Hor we removed the binaries: AF Hor, BS Ind, HIP 116748N, HIP 116749S, TYC 7065-0879N, TYC 7065-0879S as well as stars with error  $\gtrsim 0.15$  mags: EXO 0235.2-5216, CD-58 553, Smethells 86, CT Tuc, Smethells 165, Smethells 173.

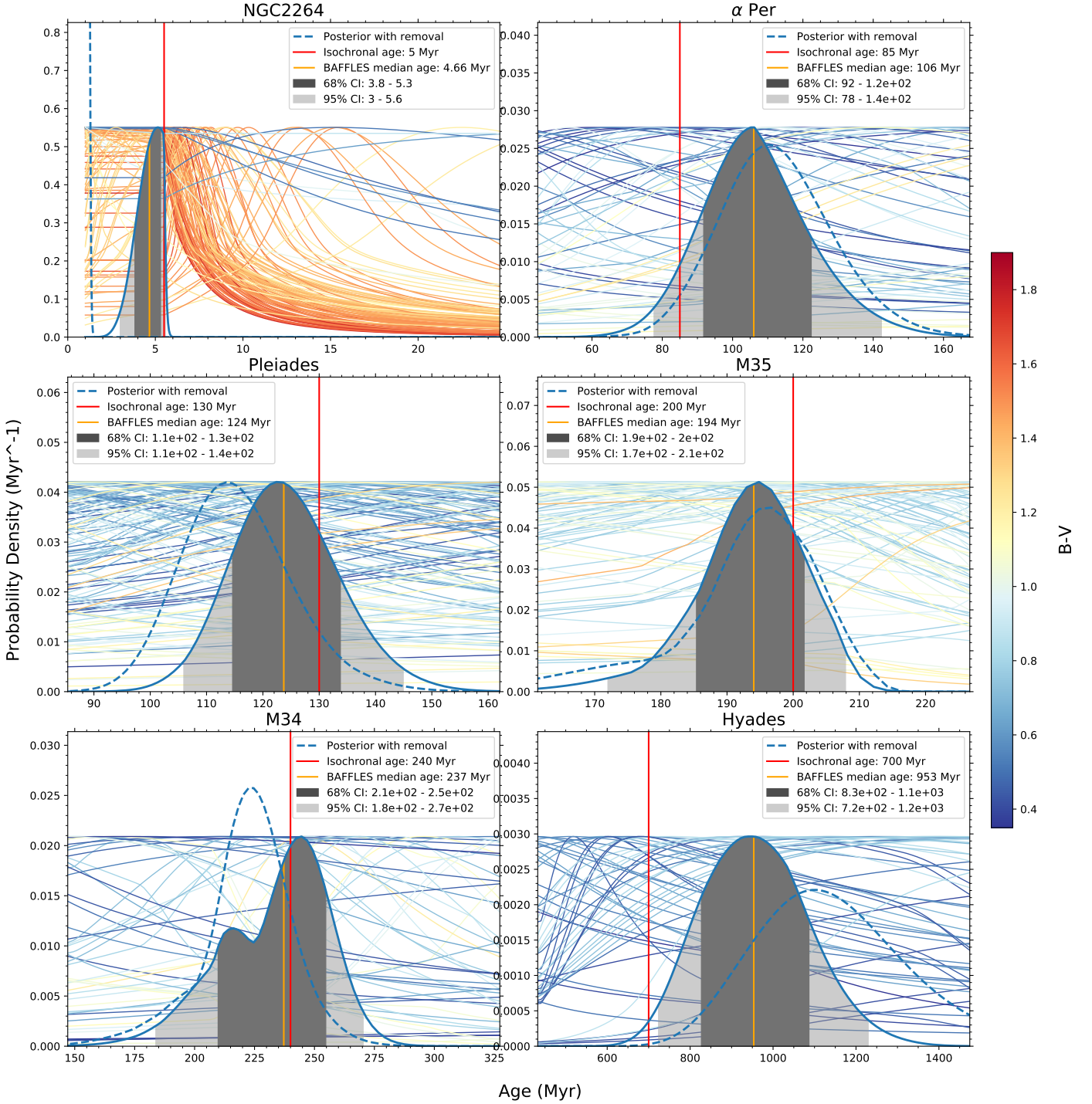
We derive ages for AB Dor:  $127^{+35}_{-28}$  Myr, and Tuc/Hor:  $35^{+11}_{-10}$  Myr, as in Figure 12. These ages are within  $1\sigma$  of isochronal ages – AB Dor  $149^{+51}_{-19}$ , Tuc/Hor  $45^{+4}_{-4}$  Myr – from Bell et al. (2015). We caution against using the ages we derive for these moving groups, however, since our posterior products can be significantly biased by a single star with incorrect values (either lithium abundance,  $B$  or  $V$ ), or with an incorrect membership determination.

## 5. ANALYSIS

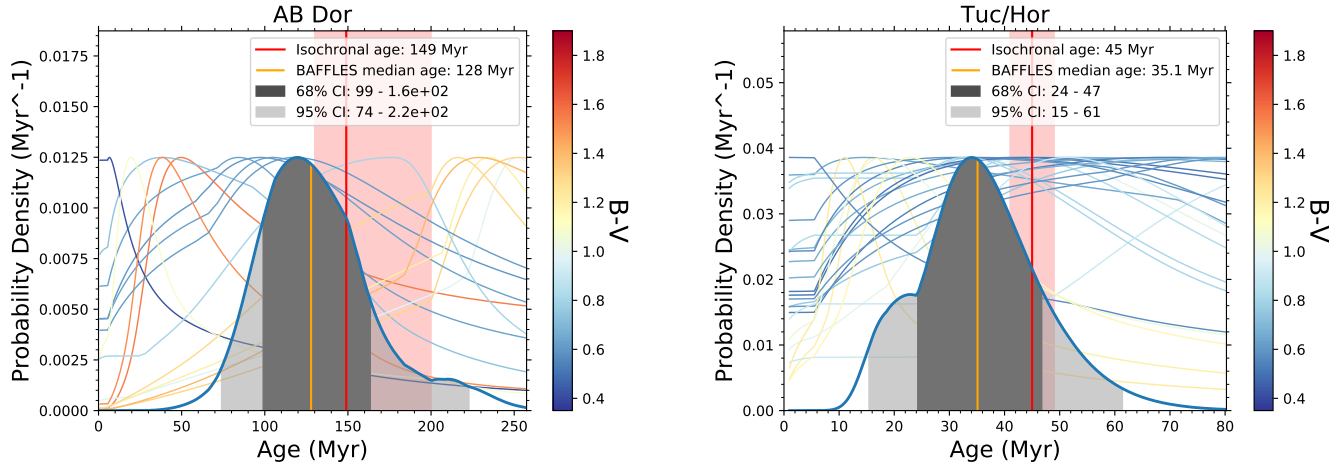


**Figure 10.** We test the validity of our calcium age posteriors by considering the product of PDFs from every star in one of our benchmark clusters, which should represent the PDF of the cluster age. We calculate the age posteriors for each star in the cluster (shown color-coded by  $B - V$  and scaled to common height in the background), and finally multiply the age posteriors together to get the posterior product. The blue dashed line is the posterior product produced if we first omit the cluster from those used to calibrate BAFFLES. “Isochronal Age” represents the more robustly determined ages from Table 1 that we use as the ages of our benchmark clusters. The mostly 1-2  $\sigma$  agreement suggests the median age and uncertainties we find with BAFFLES are reasonable, though uncertainties reported by BAFFLES may be slightly underestimated.





**Figure 11.** Following Figure 10, we test the validity of our lithium posteriors. Our ages are consistent with isochronal ages to within 68% confidence intervals for 6 of our 10 clusters, and to within 95% confidence intervals for 9/10 clusters.



**Figure 12.** We compute age posteriors for AB Dor and Tuc/Hor from the product of the posteriors of stars in each moving group. Our computed ages agree with isochronal values to within  $1\sigma$ , suggesting that our lithium-derived posteriors are generally accurate. Data for AB Dor and Tuc/Hor is from [Mentuch et al. \(2008\)](#) and isochronal ages are from [Bell et al. \(2015\)](#).

### 5.1. Notable Stars: TW PsA, HR 2562, and HD 206893

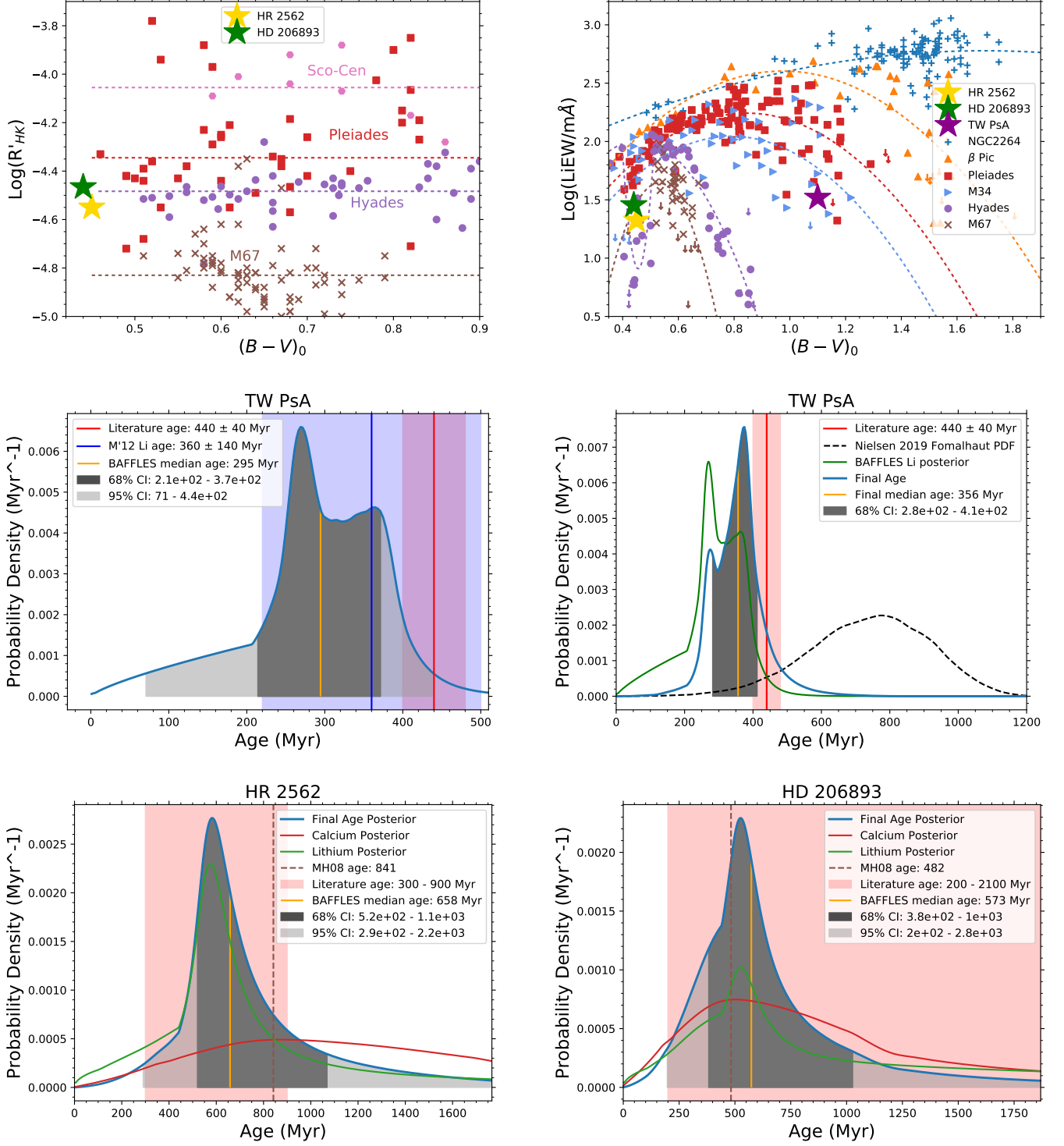
We show examples of ages derived using BAFFLES for three field stars associated with substellar companions: the brown dwarf hosts HR 2562 and HD 206893, and the stellar companion to the exoplanet host Fomalhaut, TW PsA. Age sets the formation timescale for these substellar companions, and in the case of the brown dwarfs, the model mass derived for these objects depends directly on the assumed age.

TW PsA is a stellar companion to the A3V star Fomalhaut with a bright debris disk and planetary companion. The system’s age has been estimated by [Mamaĵek \(2012\)](#) to be  $440 \pm 40$  Myr by combining independent age estimates from isochrones, rotation rate, X-ray luminosity, and lithium abundance. From lithium alone, [Mamaĵek \(2012\)](#) estimates an age of  $360 \pm 140$  Myr by comparing the Li EW of TW PsA, with values  $B - V = 1.1$  ( $V$  from [Keenan & McNeil 1989](#) and  $B$  from [Cutri et al. 2003](#)) and Li EW =  $33 \pm 2$  ([Barrado y Navascués et al. 1997](#)), to the Li EW in the clusters Pleiades, M34, UMa, and Hyades. Using these same values of  $B - V$  and Li EW as input to BAFFLES, we report an age of 295 Myr with a 68% confidence interval between 213 Myr - 371 Myr (third panel of Fig. 13), consistent with the [Mamaĵek \(2012\)](#) lithium age, but a factor of  $\sim 1.5$  too young for the final adopted age. However at  $B - V = 1.1$ , we are limited by our cluster samples which have lithium detections up to the age of M34 (240 Myr), and non-detections at the age of Coma Ber (600 Myr), but no information in between. Thus interpolations to older ages at this  $B - V$  are difficult with our current dataset.

We also combine our age PDF with that for the A star Fomalhaut from [Nielsen et al. \(2019\)](#),  $750^{+170}_{-190}$  Myr, with our PDF (middle-right plot of Fig. 13), to get a final age for the system,  $356^{+58}_{-75}$  Myr. Since the distribution from BAFFLES is significantly narrower than that from [Nielsen et al. \(2019\)](#), the product age changes little, yet this serves as an example of how an age posterior allows ages from BAFFLES to be robustly combined with ages from other sources.

HR 2562 is an F5V star around which a brown dwarf companion was discovered with the Gemini Planet Imager in 2016 ([Konopacký et al. 2016](#)). [Asiain et al. \(1999\)](#) estimated the age to be  $300 \pm 120$  Myr based on space motions and evolutionary model-derived ages. [Casagrande et al. \(2011\)](#), using Strömgren photometry and isochrones, derive a Bayesian age of 0.9-1.6 Gyr (68% confidence interval). From calcium alone with  $\log(R'_{HK}) = -4.551$  ([Gray et al. 2006](#)), we report an age of 1400 Myr (68%CI: 690 - 3700 Myr). From lithium alone, using Li EW =  $21 \pm 5$  ([Mesa et al. 2018](#)) and  $B - V = 0.45 \pm .02$  ([Høg et al. 2000a](#)), we find an age of 0.7 Gyr (68%CI: 0.5 - 1.8 Gyr). HR 2562 is in the very center of the lithium dip, and so the depletion at this color is poorly constrained given the Hyades is the only dataset in which the dip is visible, and there are no older clusters in our sample at this color. Combining these posteriors, our final age is 660 Myr, with a 68% confidence interval between 520 Myr - 1100 Myr, consistent with the age range 300-900 Myr adopted by [Konopacký et al. \(2016\)](#).

HD 206893 is an F5V star with a brown dwarf companion inside its debris disk ([Milli et al. 2017](#)). [Pace \(2013\)](#) derives its age to be  $860 \pm 710$  Myr from chromo-



**Figure 13.** BAFFLES age posteriors for three notable field stars from calcium  $R'_{HK}$  and lithium equivalent width. The top panel shows the measurements of  $B - V$ ,  $R'_{HK}$ , and Li EW of the stars in comparison with a subset of our benchmark clusters. We then compare the age posterior computed using BAFFLES to ages from the  $R'_{HK}$  polynomial in Mamajek & Hillenbrand (2008) (“MH08 age”, though we again note that Mamajek & Hillenbrand 2008 advocate a modified  $R'_{HK}$  relation incorporating additional correlations as well) and literature ages from Mamajek (2012); Konopacky et al. (2016); Milli et al. (2017) for TW PsA, HR 2562, and HD 206893, respectively. For HR 2562 and HD 206893, age posteriors for calcium and lithium are multiplied together to find a final age. The middle right plot demonstrates combining a posterior from BAFFLES with the PDF from a different source, in this case the age PDF for Fomalhaut derived by Nielsen et al. (2019).

spheric activity. On the other hand David & Hillenbrand (2015) derive an age of 2.1 Gyr with 68% CI between 1.2 - 4.7 Gyr using a Strömgren photometry fit to stellar atmosphere models, though given the long main-sequence lifetime of early F stars, this method is not particularly sensitive to the differences between young and intermediate ages (e.g. Nielsen et al. 2013). Milli et al. (2017) adopts an age range between 200 - 2100 Myr. Using a value of  $\log(R'_{HK}) = -4.466$  (Gray et al. 2006), from calcium emission alone we derive a median age of 910 Myr (68%CI: 410 - 2700 Myr). From lithium absorption with Li EW =  $28.5 \pm 7$  mÅ (Delorme et al. 2017) and  $B - V = 0.44 \pm 0.02$  (Høg et al. 2000b), we report an age of 1.3 Gyr (68%CI: 0.5 - 5.5 Gyr), though like HR 2562, HD 206893 is also in the center of the lithium dip. Our final age after combining these two posteriors is 570 Myr, with a 68% confidence interval between 380 Myr - 1000 Myr, consistent with literature ages.

We find that BAFFLES age posteriors for these field stars are consistent with literature ages. Both HR 2562 and HD 206893 are within the lithium dip and more data are needed to accurately map the depletion of lithium at these ages and colors. In general, however, lithium-based ages are often more constraining than calcium-based ones, given that the astrophysical scatter in  $R'_{HK}$  is a more significant fraction of the total range of  $R'_{HK}$ . Nevertheless, the combination of these two methods tends to increase the precision on the final age posterior.

### 5.2. Comparison to previous methods

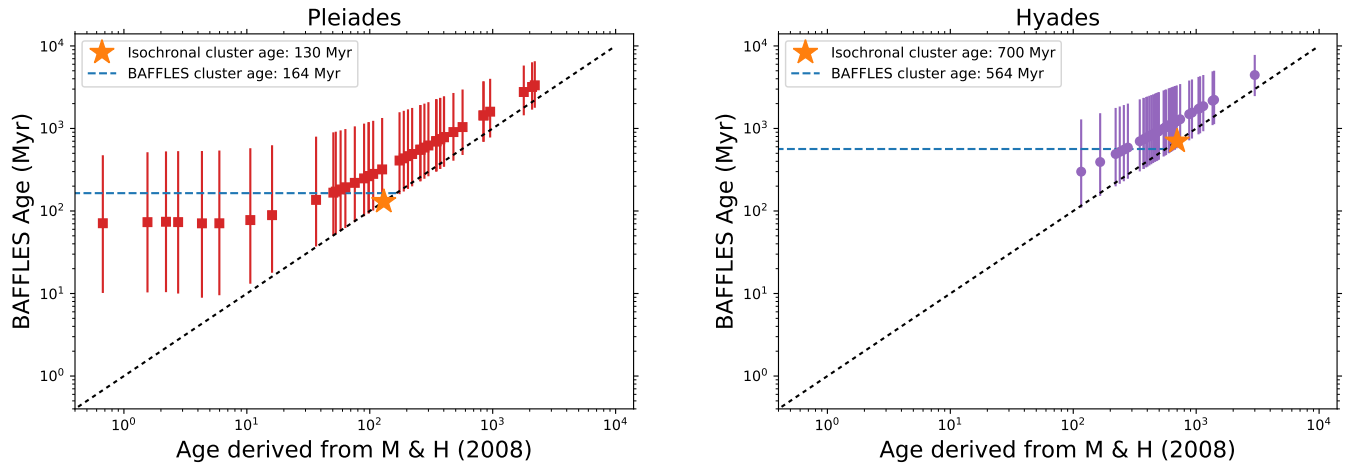
The BAFFLES median ages are systematically older than those derived from the Mamajek & Hillenbrand (2008)  $R'_{HK}$  polynomial despite relying on the same clusters and very similar fits to the clusters (Figure 2).

In the Pleiades and Hyades, for example, the median age we derive for each star with BAFFLES is older than the age given by the polynomial fit of Mamajek & Hillenbrand (2008) (Figure 14). As described in Section 1.2, this is largely a result of the shape of the polynomial fit to mean  $R'_{HK}$  as a function of time, which becomes flatter at younger ages, and so favors younger ages. Our uniform star formation rate prior mitigates this effect, pushing each age posterior back toward older values.

### 5.3. BAFFLES ages for young, nearby stars

We use our method, BAFFLES, for a sample of 2630 nearby stars that appear in recent compilations of lithium measurements,  $R'_{HK}$  measurements, or direct imaging surveys. In Table 2 we derive the ages of stars from the analysis of two direct imaging planet surveys by Nielsen & Close (2010), from the SEEDS High-contrast Imaging Survey of Exoplanets and Disks (Brandt et al. 2014a), from the compilation of  $R'_{HK}$  values by Boro Saikia et al. (2018), and from the lithium measurements in the spectroscopic survey of Guillout et al. (2009). Boro Saikia et al. (2018) compiled  $R'_{HK}$  values from a number of previous literature surveys, including Arriagada (2011); Wright et al. (2004); Isaacson & Fischer (2010); Henry et al. (1996); Gray et al. (2006); Hall et al. (2009); Lovis et al. (2011); Bonfils et al. (2013); Duncan et al. (1991); Baliunas & Vaughan (1985). Guillout et al. (2009) acquired lithium and  $H\alpha$  measurements of several hundred field stars.

We compute age posteriors for each unique star from  $R'_{HK}$  and Li EW separately, and when both are available, we multiply these posteriors to determine a final age. For stars with multiple entries, we first compute the mean values of  $B - V$ ,  $R'_{HK}$  and Li EW over all measurements, then use these means to find the age posteriors.



**Figure 14.** Comparison of **BAFFLES** calcium age posteriors to stellar ages derived from the polynomial fit (Eq. 3) from Mamajek & Hillenbrand (2008). Error-bars indicate the 68% confidence interval from **BAFFLES**. As expected from the shape of the polynomial fit to  $R'_{HK}$  vs time (Figure 2), the polynomial method tends to be biased toward younger ages. **BAFFLES** produces systematically older ages for individual stars, yet the product of these individual posteriors (Figure 10) shows that taken together, these posteriors are close to the correct age for the cluster as a whole.

Table 2. BAFFLES ages for nearby stars

Name	RA		Dec		Sp. Type	$B - V$ mags	$\log R'_{HK}$ (mÅ)	Li EW (mÅ)	Ref.	$R'_{HK}$ Age at Posterior CDF Value (Myr)			Li EW Age at Posterior CDF Value (Myr)			Final Age at Posterior CDF Value (Myr)													
	h m s	h m s	h m s	h m s						2.5%	16%	50%	84%	97.5%	2.5%	16%	50%	84%	97.5%	2.5%	16%	50%	84%	97.5%					
BD+35 5152	00 00 35.97		+36 40 7.56		G0	0.66		104	4					67	209	565	3160	10100	67	209	565	3160	10100	67	209	565	3160	10100	
HD 224783	00 00 38.12		-66 40 59.43		G2IV/V	0.55	-4.78			3	1110	2430	4390	7730	11800					1110	2430	4390	7730	11800	1110	2430	4390	7730	11800
HD 224789	00 00 40.32		-69 40 33.48		KIV	0.86	-4.53			3	249	630	1330	3510	9270					249	630	1330	3510	9270	249	630	1330	3510	9270
CCDM J00014+3937AB	00 01 23.66		+39 36 38.56		K0	0.82		24		4									349	637	1690	3640	6960	1510	3230	5620	8900	12200	
* 85 Peg	00 02 10.34		+27 04 54.48		G5VbFe-2	0.67	-4.84			3	1510	3230	5620	8900	12200					1510	3230	5620	8900	12200	1510	3230	5620	8900	12200
HD 224983	00 02 21.54		+11 00 22.46		K0V	0.89	-4.99			3	2810	5660	8900	11600	12800					2810	5660	8900	11600	12800	2810	5660	8900	11600	12800
HD 225118	00 03 41.48		-28 23 46.30		G8.5V	0.77	-4.49			3	187	489	1060	3010	8720					187	489	1060	3010	8720	187	489	1060	3010	8720
HD 225239	00 04 53.72		+34 39 34.80		G3	0.63	-4.89			3	1930	4040	6800	10000	12400					1930	4040	6800	10000	12400	1930	4040	6800	10000	12400
HD 225261	00 04 56.32		+23 16 10.66		G9V	0.76	-4.95			3	2470	5050	8170	11200	12700					2470	5050	8170	11200	12700	2470	5050	8170	11200	12700
HD 225299	00 04 58.72		-70 12 44.79		G5V	0.71	-4.85			3	1550	3310	5740	9010	12200					1550	3310	5740	9010	12200	1550	3310	5740	9010	12200
HD 5	00 05 10.18		+02 23 49.96		G2/3V	0.62	-4.70			3	693	1580	3000	6100	11100					693	1580	3000	6100	11100	693	1580	3000	6100	11100
HD 225297	00 05 2.63		-36 00 54.43		G0V	0.54	-4.77			3	1050	2320	4210	7530	11700					1050	2320	4210	7530	11700	1050	2320	4210	7530	11700
HD 39	00 05 29.05		+34 06 20.56		F8	0.51	-4.78			3	1110	2440	4400	7740	11800					1110	2440	4400	7740	11800	1110	2440	4400	7740	11800
HD 105	00 05 52.54		-41 45 11.05		G0V	0.59	-4.33			3	51	162	413	1580	6520					51	162	413	1580	6520	51	162	413	1580	6520
HD 23	00 05 7.50		-52 09 6.26		G0V	0.58	-4.76			3	973	2160	3950	7250	11600					973	2160	3950	7250	11600	973	2160	3950	7250	11600
HD 24	00 05 9.80		-62 50 42.79		G0V	0.59	-4.38			3	76	224	542	1900	7110					76	224	542	1900	7110	76	224	542	1900	7110
HD 123	00 06 15.81		+58 26 12.22		G3V+G8V	0.68	-4.56			3	297	736	1520	3870	9600					297	736	1520	3870	9600	297	736	1520	3870	9600
HD 142	00 06 19.18		-49 04 30.68		F7V	0.52	-4.77			3	1040	2300	4170	7500	11700					1040	2300	4170	7500	11700	1040	2300	4170	7500	11700
HD 166	00 06 36.78		+29 01 17.41		G8	0.75	-4.36			3	63	193	478	1740	6830					63	193	478	1740	6830	63	193	478	1740	6830
HD 232102	00 06 37.38		+55 27 21.72		K0	0.92		4		4									342	493	754	1050	1420	342	493	754	1050	1420	
HD 283	00 07 32.54		-23 49 7.40		G9.5V	0.80	-4.98			3	2710	5480	8700	11500	12800					2710	5480	8700	11500	12800	2710	5480	8700	11500	12800
HD 299	00 07 52.09		+55 34 37.35		G0	0.60		67		4									283	983	3540	8990	12400	283	983	3540	8990	12400	
HD 361	00 08 16.36		-14 49 28.17		G1V	0.62	-4.80			3	1220	2650	4730	8080	11900					1220	2650	4730	8080	11900	1220	2650	4730	8080	11900
HD 377	00 08 25.75		+06 37 0.49		G2V	0.63	-4.35	150	2,3	3	61	188	467	1720	6780				28	117	752	5360	11500	42	103	209	477	1480	
HD 375	00 08 28.47		+34 56 4.35		F8	0.61	-4.86			3	1660	3520	6050	9290	12300					1660	3520	6050	9290	12300	1660	3520	6050	9290	12300
HD 380	00 08 4.69		+53 47 46.50		F8V	0.59		71		4									264	921	3490	9000	12400	264	921	3490	9000	12400	
HD 400	00 08 40.94		+36 37 37.65		F8IV	0.50	-4.80			3	1200	2620	4680	8020	11900					1200	2620	4680	8020	11900	1200	2620	4680	8020	11900
HD 457	00 08 59.68		-39 44 13.78		G0V	0.62	-4.95			3	2440	5000	8110	11200	12700					2440	5000	8110	11200	12700	2440	5000	8110	11200	12700
HD 483	00 09 19.44		+17 32 2.12		G2III	0.64	-4.58			3	338	827	1690	4150	9850					338	827	1690	4150	9850	338	827	1690	4150	9850
HD 449	00 09 2.85		+09 50 59.88		G5	0.71	-4.93			3	2250	4640	7640	10800	12600					2250	4640	7640	10800	12600	2250	4640	7640	10800	12600
HD 531B	00 09 51.30		+08 27 11.89		G7V	0.72	-4.35			3	62	191	474	1730	6810					62	191	474	1730	6810	62	191	474	1730	6810
HD 531A	00 09 51.65		+08 27 11.40		G6V	0.72	-4.32			3	45	146	380	1500	6340					45	146	380	1500	6340	45	146	380	1500	6340
HD 531	00 09 51.65		+08 27 11.41		G6V+G7V	0.72	-4.33			3	50	158	405	1560	6480					50	158	405	1560	6480	50	158	405	1560	6480
HD 564	00 09 52.82		-50 16 4.17		G2/3V	0.59	-4.72			3	809	1820	3400	6610	11400					809	1820	3400	6610	11400	809	1820	3400	6610	11400
* 6 Cet	00 11 15.85		-15 28 4.74		F8VFe-0.8CH-0.5	0.49	-4.79			3	1170	2560	4590	7930	11900					1170	2560	4590	7930	11900	1170	2560	4590	7930	11900
V344 And	00 11 22.44		+30 26 58.47		K0V	0.76	-4.30			3	38	127	339	1390	6110					38	127	339	1390	6110	38	127	339	1390	6110
HD 750	00 11 35.79		-57 28 21.18		KIV	0.89	-4.68			3	610	1410	2710	5710	10900					610	1410	2710	5710	10900	610	1410	2710	5710	10900
* tet Scl	00 11 44.02		-35 07 59.23		F5V	0.46	-4.64			3	496	1170	2290	5110	10600					496	1170	2290	5110	10600	496	1170	2290	5110	10600
BD+64 9	00 12 0.92		+65 36 17.53		F8	0.57		3		4									1230	4110	8380	11600	12800	1230	4110	8380	11600	12800	
HD 804	00 12 28.33		+20 14 3.65		G5	0.67	-4.97			3	2600	5290	8460	11400	12700					2600	5290	8460	11400	12700	2600	5290	8460	11400	12700
HD 870	00 12 50.25		-57 54 45.40		K0V	0.78	-4.75			3	951	2110	3870	7170	11600					951	2110	3870	7170	11600	951	2110	3870	7170	11600
HD 984	00 14 10.25		-07 11 56.81		F7V	0.52	-4.34			3	57	177	444	1660	6670					57	177	444	1660	6670	57	177	444	1660	6670
HD 1108	00 15 4.63		-68 31 48.36		G6V	0.69	-4.80			3	1190	2590	4640	7980	11900					1190	2590	4640	7980	11900	1190	2590	4640	7980	11900

Table 2 continued

Table 2 (continued)

HD 1237	00 16 12.68	-79 51 4.24	G8V	0.75	-4.43	3	112	313	722	2300	7760	112	313	722	2300	7760	
HD 1273	00 16 53.90	-52 39 4.04	G5VFe-1.2CH-0.9	0.66	-4.75	3	935	2080	3820	7110	11600	935	2080	3820	7110	11600	
HD 1320	00 17 16.53	-43 51 9.84	G2V	0.65	-4.89	3	1910	4000	6750	9940	12400	1910	4000	6750	9940	12400	
* 38 Psc	00 17 24.54	+08 52 35.61	G0:III+F2V+F8V	0.59	-4.82	3	1320	2850	5050	8380	12000	1320	2850	5050	8380	12000	
HD 1342	00 17 41.48	+01 19 25.78	F6/7V	0.56	-4.79	3	1140	2500	4490	7840	11800	1140	2500	4490	7840	11800	
HD 1388	00 17 58.87	-13 27 20.31	G0V	0.60	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800	
PW And	00 18 20.89	+30 57 22.13	K2V	0.92	269	1,2						6	32	71	175	274	
HD 1466	00 18 26.12	-63 28 38.98	F8V	0.54	-4.34	129	1,2,3	57	177	444	1660	6670	39	109	260	681	2730
HD 1497	00 19 12.79	+13 34 37.21	F8	0.66	-4.82	3	1360	2920	5150	8480	12100	1360	2920	5150	8480	12100	
HD 1530	00 19 21.43	-40 07 16.28	G3V	0.66	-4.89	3	1860	3900	6600	9800	12400	1860	3900	6600	9800	12400	
HD 1620	00 20 18.56	-32 46 9.64	G6V	0.71	-4.74	3	870	1950	3600	6850	11500	870	1950	3600	6850	11500	
* zet Tuc	00 20 4.26	-64 52 29.25	F9.5V	0.58	-4.92	3	2170	4500	7440	10600	12500	2170	4500	7440	10600	12500	
HD 1666	00 20 52.34	-19 55 52.41	F7V	0.52	-4.89	3	1920	4010	6760	9950	12400	1920	4010	6760	9950	12400	
HD 1815	00 22 23.56	-27 01 57.05	K2Vke	0.89	-4.58	3	345	843	1720	4200	9890	345	843	1720	4200	9890	
HD 1893	00 22 34.77	-73 01 56.49	G8V	0.77	-4.73	3	845	1900	3520	6760	11400	845	1900	3520	6760	11400	
* 9 Cet	00 22 51.79	-12 12 33.97	G2.5V	0.66	-4.43	3	115	319	733	2330	7800	115	319	733	2330	7800	
HD 1832	00 23 0.21	+22 22 30.00	F8	0.64	-4.83	3	1450	3110	5440	8750	12100	1450	3110	5440	8750	12100	
HD 1926	00 23 4.74	-65 07 16.10	F8/G0V	0.58	-4.77	3	1040	2300	4170	7490	11700	1040	2300	4170	7490	11700	
HD 2071	00 24 42.55	-53 59 2.40	G2V	0.68	-4.89	3	1890	3960	6690	9890	12400	1890	3960	6690	9890	12400	
HD 2070	00 24 44.81	-51 02 37.91	G0V	0.60	-4.88	3	1810	3790	6450	9660	12400	1810	3790	6450	9660	12400	
HD 2098	00 25 1.40	-30 41 51.40	G2V	0.62	-4.88	3	1790	3770	6420	9630	12400	1790	3770	6420	9630	12400	
HD 2085	00 25 11.02	+16 59 30.87	F5	0.54	-4.68	3	621	1430	2750	5760	10900	621	1430	2750	5760	10900	
* bet Hyi	00 25 45.07	-77 15 15.29	G0V	0.62	-4.92	3	2170	4490	7440	10600	12500	2170	4490	7440	10600	12500	
HD 2209	00 26 10.90	+38 24 36.55	A2	0.71	0.61	42						322	682	1930	7240	12000	
HD 2331	00 27 13.90	+05 38 14.78	G5	0.61	-4.90	3	1970	4100	6900	10100	12400	1970	4100	6900	10100	12400	
V1036 Cas	00 28 17.09	+63 44 5.83	G0:	0.74	0.74	32						416	925	3500	9320	12400	
HD 2475	00 28 21.10	-20 20 6.18	F9VFe+0.5	0.59	-4.57	3	313	772	1590	3980	9700	313	772	1590	3980	9700	
HD 2564	00 29 31.14	+24 52 51.55	F8	0.56	-4.88	3	1780	3740	6370	9580	12300	1780	3740	6370	9580	12300	
HD 3047	00 33 32.43	-38 06 48.26	G1V	0.61	-4.99	3	2760	5580	8810	11600	12800	2760	5580	8810	11600	12800	
HD 3074	00 33 43.81	-35 00 7.47	F8/G0V	0.62	-4.90	3	2010	4190	7020	10200	12500	2010	4190	7020	10200	12500	
HD 3074A	00 33 43.81	-35 00 7.49	G0	0.62	-4.95	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700	
HD 3158	00 34 27.83	-52 22 23.13	F6V	0.47	-4.57	3	307	759	1560	3940	9670	307	759	1560	3940	9670	
HD 3079	00 34 29.71	+47 54 55.95	F8	0.55	-4.86	3	1670	3530	6060	9290	12300	1670	3530	6060	9290	12300	
BD+61 119	00 34 38.31	+62 37 19.63	F8	0.59	0.59	122						63	259	2050	7960	12200	
HD 3221	00 35 14.88	-03 35 34.24	K4Ve	1.23	1.23	360						3	9	24	103	206	
* 13 Cet	00 35 14.88	-03 35 34.24	F7V+G4V	0.56	-4.43	2						3	9	24	103	206	
HD 3277	00 35 34.26	-39 44 46.63	G8V	0.73	-4.89	3	119	328	752	2370	7860	119	328	752	2370	7860	
* lam02 Phe	00 35 41.18	-48 00 3.27	F5V+	0.46	-4.34	3	1880	3930	6640	9840	12400	1880	3930	6640	9840	12400	
HD 3405	00 36 37.98	-49 07 56.37	G3V	0.64	-4.33	3	57	176	442	1650	6660	57	176	442	1650	6660	
HD 3443	00 37 20.72	-24 46 2.18	K1V+G	0.71	-4.90	3	49	155	398	1550	6440	49	155	398	1550	6440	
HD 3410	00 37 31.22	+55 13 31.27	G0	0.62	-4.90	3	2000	4170	6990	10200	12500	2000	4170	6990	10200	12500	
HD 4152	00 38 45.05	-85 24 44.78	G9V	0.75	-4.64	47						498	1530	4600	9690	12500	
HD 3578	00 38 49.21	+09 44 36.46	G0	0.66	-4.95	3	478	1130	2220	5010	10500	478	1130	2220	5010	10500	
HD 3674	00 39 40.70	+11 31 56.21	F8	0.54	-4.79	3	2470	5050	8170	11200	12700	2470	5050	8170	11200	12700	
HD 3770	00 40 24.41	-07 39 23.96	F8V	0.57	-4.87	3	1180	2570	4600	7950	11900	1180	2570	4600	7950	11900	
HD 3821	00 40 47.48	-07 13 57.38	G1V+K5V	0.62	-4.48	3	1730	3640	6230	9450	12300	1730	3640	6230	9450	12300	
HD 3861	00 41 11.87	+09 21 18.21	F8V	0.53	-4.67	3	175	461	1010	2900	8590	175	461	1010	2900	8590	
HD 4083	00 42 34.89	-54 07 4.00	G9IV-V	0.77	-4.99	3	595	1380	2650	5630	10900	595	1380	2650	5630	10900	
HD 4863	00 44 21.97	-85 53 29.52	F8/G0V	0.57	-4.81	3	2770	5590	8820	11600	12800	2770	5590	8820	11600	12800	
						3	1260	2740	4860	8210	12000	1260	2740	4860	8210	12000	

Table 2 continued

Table 2 (continued)

HD 4208	00 44 26.65	-26 30 56.46	G7VFe-1CH-0.5	0.66	-4.86	3	1670	3540	6080	9310	12300	1670	3540	6080	9310	12300
HD 4271	00 45 10.96	+00 15 11.83	F7/8V	0.54	-4.82	3	1380	2970	5230	8550	12100	1380	2970	5230	8550	12100
HD 4392	00 45 41.87	-48 18 4.58	G4V	0.68	-4.91	3	2030	4220	7060	10200	12500	2030	4220	7060	10200	12500
HD 4391	00 45 45.59	-47 33 7.15	G3V	0.64	-4.57	3	308	762	1570	3950	9680	308	762	1570	3950	9680
HD 4628	00 48 22.98	+05 16 50.21	K2.5V	0.89	-4.97	3	2620	5330	8510	11400	12800	2620	5330	8510	11400	12800
HD 4747	00 49 26.76	-23 12 44.87	G8/K0V	0.77	-4.76	3	986	2180	3990	7300	11600	986	2180	3990	7300	11600
HD 4635	00 49 46.48	+70 26 58.15	K2.5V+	0.90	-4.68	3	617	1420	2730	5740	10900	617	1420	2730	5740	10900
* eta Cas	00 49 6.29	+57 48 54.68	F9V+M0-V	0.58	-4.86	3	1650	3490	6000	9240	12300	1650	3490	6000	9240	12300
* phi02 Cet	00 50 7.59	-10 38 39.58	F7V	0.51	-4.75	3	945	2100	3850	7140	11600	945	2100	3850	7140	11600
HD 4915	00 51 10.85	-05 02 21.40	G5V	0.66	-4.85	3	1600	3400	5880	9130	12200	1600	3400	5880	9130	12200
HD 4975	00 51 22.08	-38 31 43.82	G1V	0.59	-4.92	3	2190	4530	7500	10700	12500	2190	4530	7500	10700	12500
HD 4903	00 51 24.90	+32 39 25.47	F8	0.56	-4.82	3	1360	2940	5170	8500	12100	1360	2940	5170	8500	12100
HD 4741	00 51 49.97	+78 37 32.59	G7V	0.78	-4.65	3	514	1210	2360	5210	10600	514	1210	2360	5210	10600
* lam01 Tuc	00 52 24.52	-69 30 13.54	F7IV/V	0.52	-4.87	3	1690	3570	6120	9350	12300	1690	3570	6120	9350	12300
HD 5035	00 52 40.16	+31 27 33.70	G0	0.71	-4.95	3	2430	4970	8070	11100	12700	2430	4970	8070	11100	12700
HD 5065	00 52 51.75	+40 14 44.05	G0	0.59	-4.99	3	2790	5620	8850	11600	12800	2790	5620	8850	11600	12800
HD 232301	00 53 14.25	+50 51 46.84	F5	0.57	-4.93	3	2250	4630	7630	10800	12600	2250	4630	7630	10800	12600
HD 5015	00 53 4.20	+61 07 26.30	F9V	0.54	-4.94	3	2330	4790	7840	11000	12600	2330	4790	7840	11000	12600
BD+50 175	00 54 14.96	+51 08 11.85	K0	0.84	-4.94	176	4	71	134	211	379	17	71	134	211	379
HD 5294	00 54 59.27	+24 06 0.98	G5	0.65	-4.48	3	163	434	957	2800	8460	163	434	957	2800	8460
HD 5372	00 56 17.37	+52 29 28.46	G5	0.66	-4.84	2	3,4	1530	3260	5670	8940	1530	3260	5670	8940	12200
HD 5470	00 56 40.22	+17 57 35.33	G0	0.63	-4.88	3	1820	3820	6490	9690	12400	1820	3820	6490	9690	12400
HD 6107	01 01 19.03	-60 51 36.53	G1/2V	0.65	-4.97	3	2620	5310	8490	11400	12800	2620	5310	8490	11400	12800
HD 5850	01 01 22.78	+65 52 19.68	G5	0.72	-4.97	106	4	41	166	289	667	41	166	289	667	2760
HD 5946	01 01 5.53	+08 46 9.73	G5	0.76	-4.97	3	2600	5280	8450	11400	12700	2600	5280	8450	11400	12700
HD 6156	01 02 27.73	-21 36 38.08	G9V+K0V+K5V	0.80	-4.60	3	394	950	1910	4510	10100	394	950	1910	4510	10100
HD 6236	01 02 44.00	-47 17 15.29	G0V	0.59	-4.95	3	2450	5010	8120	11200	12700	2450	5010	8120	11200	12700
HD 6026	01 02 50.37	+62 36 32.72	K0	0.91	-4.95	18	4	286	423	651	978	286	423	651	978	1310
V966 Cas	01 02 57.22	+69 13 37.43	G5V	0.75	-4.47	1,2	154	412	914	2710	8350	154	412	914	2710	8350
HD 5817	01 03 38.78	+82 06 2.70	G5	0.57	-4.81	3	1280	2760	4910	8250	12000	1280	2760	4910	8250	12000
HD 6434	01 04 40.15	-39 29 17.59	G2/3V	0.61	-4.91	3	2070	4290	7160	10300	12500	2070	4290	7160	10300	12500
CD-35 360	01 04 6.13	-34 40 28.94	G8	0.76	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600
* 77 Psc B	01 05 51.43	+04 54 33.78	F5/7(V)	0.49	-4.73	3	823	1850	3450	6670	11400	823	1850	3450	6670	11400
HD 6512	01 06 12.63	+13 15 9.88	G0	0.66	-4.92	3	2140	4430	7350	10500	12500	2140	4430	7350	10500	12500
HD 6558	01 06 25.72	-00 44 58.03	G2V	0.61	-4.90	3	2020	4200	7030	10200	12500	2020	4200	7030	10200	12500
HD 6569	01 06 26.15	-14 17 47.11	K1V	0.83	-4.89	155	2	85	155	230	429	22	85	155	230	429
BD+73 55	01 07 14.34	+74 32 14.86	G5	0.75	-4.92	54	4	149	334	567	1510	149	334	567	1510	7950
HD 6611	01 07 28.74	+41 15 31.97	F5	0.54	-4.86	3	1660	3510	6040	9270	12300	1660	3510	6040	9270	12300
HD 6735	01 07 32.05	-41 44 48.13	F9V	0.57	-4.93	3	2270	4680	7690	10800	12600	2270	4680	7690	10800	12600
HD 6697	01 07 51.58	+15 51 47.61	G5III	0.72	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600
HD 6790	01 07 57.62	-37 53 53.37	G0V	0.56	-4.89	3	1930	4020	6780	9980	12400	1930	4020	6780	9980	12400
HD 6664	01 07 58.78	+39 15 9.18	G1V	0.59	-4.89	82	4	183	624	2740	8430	183	624	2740	8430	12300
* 78 Psc	01 08 1.34	+32 00 43.66	F5IV	0.45	-4.02	3	2	12	75	568	3560	2	12	75	568	3560
HD 6715	01 08 12.48	+21 58 37.23	G5	0.71	-4.93	3	2290	4720	7750	10900	12600	2290	4720	7750	10900	12600
* mu. Cas	01 08 16.39	+54 55 13.23	G5Vb	0.69	-4.47	3	154	412	915	2710	8350	154	412	915	2710	8350
HD 6838	01 08 45.72	-25 51 40.05	K0V	0.84	-4.33	3	52	163	416	1590	6530	52	163	416	1590	6530
HD 6880	01 08 57.95	-30 55 45.39	G8/K0V	0.76	-4.75	3	952	2110	3880	7170	11600	952	2110	3880	7170	11600
V443 And	01 10 41.90	+42 55 54.59	G7V	0.73	-4.51	3	215	552	1180	3240	8980	215	552	1180	3240	8980
HD 6840	01 10 50.73	+67 46 48.45	G0	0.55	-4.82	3	1370	2950	5200	8530	12100	1370	2950	5200	8530	12100

Table 2 continued



Table 2 (continued)

HD 7047	01 10 54.28	+09 33 50.06	G0	0.57	-4.85	3	1590	3380	5840	9100	12200	1590	3380	5840	9100	12200
AG+51 117	01 10 7.17	+51 44 33.86	F5V	0.51	-4.79	3	1180	2570	4610	7960	11900	1180	2570	4610	7960	11900
HD 6872	01 10 7.49	+51 44 48.02	F4V	0.47	-4.78	3	1110	2440	4400	7740	11800	1110	2440	4400	7740	11800
* 35 Cet	01 12 30.64	+02 28 17.69	F3/5V	0.45	-4.14	3	7	33	126	762	4440	7	33	126	762	4440
HD 7228	01 13 2.30	+33 09 17.80	F5	0.55	-4.95	3	2450	5000	8110	11200	12700	2450	5000	8110	11200	12700
* zet Psc B	01 13 45.25	+07 34 41.68	F7V	0.48	-4.63	3	460	1090	2160	4910	10400	460	1090	2160	4910	10400
HD 7399	01 13 51.34	-20 30 47.69	F5V	0.48	-4.99	3	2800	5640	8870	11600	12800	2800	5640	8870	11600	12800
QU And	01 13 6.07	+41 39 15.51	G5	0.77	-4.99	6						791	2030	5060	8960	12100
HD 7438	01 14 22.43	-07 54 39.25	K1(V)	0.78	-4.73	3	819	1840	3430	6650	11400	819	1840	3430	6650	11400
* 37 Cet	01 14 24.04	-07 55 22.17	F5V	0.46	-4.81	3	1290	2790	4950	8290	12000	1290	2790	4950	8290	12000
HD 7449	01 14 29.32	-05 02 50.61	F9.5V	0.57	-4.87	3	1750	3700	6310	9520	12300	1750	3700	6310	9520	12300
* nu. Phe	01 15 11.12	-45 31 54.01	F9VFe+0.4	0.57	-4.82	3	1340	2890	5110	8440	12000	1340	2890	5110	8440	12000
HD 7483	01 15 31.27	+37 44 36.13	G5	0.67	-4.75	3	947	2100	3860	7150	11600	947	2100	3860	7150	11600
HD 7678	01 15 45.06	-53 42 56.43	G3V	0.65	-4.64	3	506	1190	2330	5170	10600	506	1190	2330	5170	10600
* keap Tuc	01 15 46.16	-68 52 33.34	F6V+K1V	0.48	-4.27	3	29	102	284	1250	5790	29	102	284	1250	5790
EW. Cet	01 16 24.20	-12 05 49.21	K0V	0.75	-4.39	3	87	254	602	2040	7350	87	254	602	2040	7350
HD 7590	01 16 29.25	+42 56 21.90	G0-V(k)	0.59	-4.46	84	143	386	864	2610	8210	176	617	2800	8530	12300
* 40 Cet	01 16 59.01	-02 16 44.97	G2V	0.56	-4.84	3	1520	3240	5640	8920	12200	1520	3240	5640	8920	12200
HD 7786	01 17 3.34	-30 55 3.80	F5V	0.49	-4.76	3	960	2130	3900	7200	11600	960	2130	3900	7200	11600
HD 7895	01 18 41.10	-00 52 3.24	K1V	0.78	-4.71	3	761	1720	3240	6410	11300	761	1720	3240	6410	11300
HD 7983	01 18 59.99	-08 56 22.19	G3V	0.59	-4.69	3	664	1520	2900	5970	11000	664	1520	2900	5970	11000
HD 8049	01 19 14.86	-43 37 47.41	K2V	0.88	-4.27	3	29	101	281	1240	5770	29	101	281	1240	5770
HD 8038	01 19 29.06	-24 57 4.34	G5V	0.70	-4.64	3	499	1180	2300	5130	10600	499	1180	2300	5130	10600
HD 8076	01 19 33.39	-39 21 45.37	G1V	0.62	-4.65	3	531	1240	2420	5300	10700	531	1240	2420	5300	10700
HD 8129	01 20 30.03	-19 56 56.29	G7V	0.70	-4.88	3	1830	3830	6510	9710	12400	1830	3830	6510	9710	12400
BD-12 243	01 20 32.27	-11 28 3.73	G9V	0.79	-4.33	3	49	157	402	1550	6460	49	157	402	1550	6460
HD 8004	01 20 36.94	+54 57 44.46	G0	0.58	-4.58	35						901	2980	7030	11100	12700
HD 7924	01 21 59.11	+76 42 37.04	K0.5V	0.83	-4.92	3	2170	4480	7420	10600	12500	2170	4480	7420	10600	12500
HD 8262	01 22 17.88	+18 40 57.75	G2V	0.63	-4.85	3	1530	3260	5670	8950	12200	1530	3260	5670	8950	12200
HD 8406	01 23 0.87	-16 29 14.86	G3V	0.66	-4.85	3	1550	3310	5740	9010	12200	1550	3310	5740	9010	12200
HD 8558	01 23 21.25	-57 28 50.69	G7V	0.67	-4.85	205						8	41	149	1180	7650
HD 8446	01 23 25.99	-14 12 24.91	G3V	0.66	-4.95	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700
HD 8535	01 23 37.24	-41 16 11.28	G0V	0.55	-4.91	3	2040	4250	7100	10300	12500	2040	4250	7100	10300	12500
HD 8467	01 24 28.00	+39 03 43.42	G5	0.78	-4.68	3	634	1460	2790	5830	11000	634	1460	2790	5830	11000
HD 8574	01 25 12.52	+28 34 0.10	F8	0.58	-4.91	3	2090	4350	7230	10400	12500	2090	4350	7230	10400	12500
HD 8648	01 25 20.11	+01 27 39.09	G3V	0.68	-4.97	3	2650	5380	8570	11400	12800	2650	5380	8570	11400	12800
HD 8821	01 25 56.11	-47 53 55.95	G8VFe+0.6	0.75	-4.73	3	828	1860	3460	6690	11400	828	1860	3460	6690	11400
HD 8765	01 26 19.18	-04 40 26.68	G6V	0.71	-4.85	3	1560	3320	5750	9020	12200	1560	3320	5750	9020	12200
HD 8859	01 26 49.25	-29 28 29.88	G5V	0.72	-4.94	3	2350	4820	7880	11000	12700	2350	4820	7880	11000	12700
HD 8673	01 26 8.79	+34 34 46.93	F7V	0.49	-4.59	3	360	876	1780	4300	9970	360	876	1780	4300	9970
HD 8912	01 27 27.21	-25 56 12.86	K0V	0.86	-4.63	3	468	1110	2190	4960	10500	468	1110	2190	4960	10500
BD+40 287	01 27 8.40	+41 11 11.09	G0	0.68	-4.92	3	2160	4470	7400	10600	12500	2160	4470	7400	10600	12500
HD 8941	01 28 24.37	+17 04 45.34	F8IV-V	0.53	-4.67	3	584	1360	2620	5580	10800	584	1360	2620	5580	10800
HD 8956	01 28 27.50	+07 57 29.44	F8IV-V	0.51	-4.88	3	1810	3810	6480	9680	12400	1810	3810	6480	9680	12400
HD 8907	01 28 34.36	+42 16 3.69	F8	0.50	-4.38	48	2, 3	78	231	556	1930	7170	217	709	3350	9060
CC Phe	01 28 8.66	-52 38 19.15	K1V	0.93	-4.24	170	1, 3					21	76	135	209	289
BD+42 309	01 29 0.86	+42 45 14.65	F8	0.57	-4.57	69	4					304	1130	4080	9460	12400
HD 9113	01 29 20.74	-19 42 42.11	G0V	0.50	-4.78	3	1100	2420	4360	7700	11800	1100	2420	4360	7700	11800
HD 9081	01 29 42.33	+17 05 56.28	G5	0.72	-4.97	3	2620	5310	8490	11400	12800	2620	5310	8490	11400	12800

Table 2 continued

Table 2 (continued)

HD 9070	01 29 51.37	+31 00 26.41	G5	0.71	-4.82	3	1330	2870	5070	8410	12000	1330	2870	5070	8410	12000						
HD 9246	01 30 24.97	-29 15 31.95	K2.5V	0.86	-4.95	3	2460	5020	8140	11200	12700	2460	5020	8140	11200	12700						
HD 9224	01 31 19.52	+29 24 47.12	G0V	0.62	-4.82	3	1320	2850	5040	8380	12000	1320	2850	5040	8380	12000						
CD-27 523	01 32 20.43	-26 33 3.84	G	0.51	-4.27	3	28	98	274	1220	5720	28	98	274	1220	5720						
HD 9540	01 33 15.81	-24 10 40.66	K0V	0.76	-4.69	1,2,3	652	1500	2860	5050	8390	652	1500	2860	5050	8390						
HD 9608	01 33 16.10	-47 18 21.86	G0/1V	0.57	-4.82	3	1320	2860	5050	8390	12000	1320	2860	5050	8390	12000						
HD 9472	01 33 19.03	+23 58 32.05	G0	0.67	-4.41	3	103	291	677	2200	7610	103	291	677	2200	7610						
HD 9619	01 33 26.70	-43 54 4.72	K0.5V+	0.81	-4.79	3	1150	2520	4520	7870	11900	1150	2520	4520	7870	11900						
HD 9407	01 34 33.26	+68 56 53.29	G6.5V	0.69	-4.95	3	2460	5030	8150	11200	12700	2460	5030	8150	11200	12700						
HD 9670	01 34 48.87	+00 56 41.16	F9VFe-0.5	0.53	-4.75	3	928	2070	3800	7080	11600	928	2070	3800	7080	11600						
HD 9518	01 35 1.52	+60 46 45.34	F6V	0.50	-4.96	3	2520	5140	8280	11300	12700	2520	5140	8280	11300	12700						
HD 9782	01 35 26.31	-13 22 51.70	F9V	0.59	-4.98	3	2700	5460	8670	11500	12800	2700	5460	8670	11500	12800						
HD 9934	01 35 41.97	-55 14 16.75	F8/G0V	0.56	-4.82	3	1360	2930	5160	8490	12100	1360	2930	5160	8490	12100						
BD+60 271	01 35 7.46	+60 46 53.80	F6V	0.52	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600						
HD 9905	01 36 10.09	-29 23 32.48	K1V	0.76	-4.97	3	2610	5300	8480	11400	12700	2610	5300	8480	11400	12700						
* ups And	01 36 47.84	+41 24 19.64	F9V	0.54	-4.86	3	1650	3500	6020	9250	12300	1650	3500	6020	9250	12300						
EX Cet	01 37 35.47	-06 45 37.53	K0/1V	0.80	-4.48	103	1,2,3	164	434	958	2800	8460	39	142	240	379	858	102	198	273	450	829
HD 10009	01 37 37.71	-09 24 13.77	F8.5VFe-0.5	0.53	-4.65	3	537	1260	2440	5330	10700	537	1260	2440	5330	10700						
HD 9986	01 37 40.88	+12 04 42.17	G2V	0.65	-4.84	3	1510	3230	5620	8900	12200	1510	3230	5620	8900	12200						
HD 10800	01 37 55.55	-82 58 29.97	G1V	0.62	-4.56	3	295	732	1510	3850	9590	295	732	1510	3850	9590						
HD 9776	01 38 4.83	+69 26 37.32	G5	0.60		76	4					213	703	2850	8450	12300	213	703	2850	8450	12300	
HD 10166	01 38 57.85	-27 15 7.96	G9V	0.79	-4.90	3	2000	4160	6970	10200	12500	2000	4160	6970	10200	12500						
HD 10126	01 39 35.97	+28 06 39.70	G8V	0.73	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700						
HD 10086	01 39 36.02	+45 52 39.99	G5V	0.69	-4.59	3	359	873	1770	4290	9960	359	873	1770	4290	9960						
HD 10013	01 39 42.19	+65 09 38.32	G5	0.77	-4.89	3	1920	4020	6770	9970	12400	1920	4020	6770	9970	12400						
* p Eri B	01 39 47.56	-56 11 47.21	K2V	0.88	-4.94	3	2340	4810	7860	11000	12600	2340	4810	7860	11000	12600						
* p Eri A	01 39 47.81	-56 11 35.95	K2V	0.88	-4.85	3	1580	3370	5830	9080	12200	1580	3370	5830	9080	12200						
HD 10226	01 39 54.60	-09 58 20.06	G1V	0.61	-4.81	3	1290	2790	4950	8290	12000	1290	2790	4950	8290	12000						
HD 10576	01 40 32.24	-69 59 13.10	G0/1V	0.59	-5.00	3	2820	5680	8920	11600	12800	2820	5680	8920	11600	12800						
HD 10370	01 40 36.42	-36 29 1.02	G5V	0.71	-4.90	3	2020	4200	7030	10200	12500	2020	4200	7030	10200	12500						
EY Cet	01 40 58.77	-05 24 12.99	G5V	0.70	-4.48	3	175	461	1010	2900	8590	175	461	1010	2900	8590						
HD 10145	01 41 37.73	+66 54 35.79	G6	0.68	-4.95	3	2470	5040	8170	11200	12700	2470	5040	8170	11200	12700						
HD 10307	01 41 47.14	+42 36 48.44	G1V	0.62	-4.96	3	2530	5150	8300	11300	12700	2530	5150	8300	11300	12700						
BD+44 351	01 41 51.11	+45 13 15.11	G8V	0.76	-4.98	3	2660	5400	8590	11500	12800	2660	5400	8590	11500	12800						
HD 10336	01 41 9.58	+07 35 18.07	G5	0.66	-4.96	3	2570	5220	8380	11300	12700	2570	5220	8380	11300	12700						
* q01 Eri	01 42 29.31	-53 44 26.99	F9V	0.55	-4.61	3	402	966	1940	4560	10200	402	966	1940	4560	10200						
HD 10678	01 42 37.01	-58 24 47.32	G6V	0.71	-4.77	3	1020	2240	4090	7400	11700	1020	2240	4090	7400	11700						
HD 10195	01 42 6.41	+69 05 9.60	F5	0.58	-4.49	100	3,4	182	477	1040	2960	8660	114	457	2740	8630	12300	149	332	682	1450	4460
HD 10611	01 43 14.33	-21 37 11.18	K0V	0.85	-4.46	3	145	390	872	2630	8230	145	390	872	2630	8230						
HD 10663	01 46 5.58	+63 48 55.36	G2V	0.64		118	4					55	183	722	4640	11100	55	183	722	4640	11100	
HD 10882	01 47 11.26	+24 23 32.29	G0	0.58	-4.83	3	1400	3010	5290	8610	12100	1400	3010	5290	8610	12100						
HD 10780	01 47 44.83	+63 51 9.01	K0V	0.81	-4.70	3	706	1610	3050	6160	11100	706	1610	3050	6160	11100						
HD 11007	01 48 41.56	+32 41 24.75	F8V	0.55	-4.95	3	2410	4940	8040	11100	12700	2410	4940	8040	11100	12700						
BD+31 318	01 49 21.26	+32 25 23.52	G0	0.66		5	4					1450	3810	7830	11400	12800	1450	3810	7830	11400	12800	
EZ Cet	01 49 23.35	-10 42 13.02	G3V	0.65	-4.45	3	136	370	833	2540	8120	136	370	833	2540	8120						
HD 11264	01 49 35.56	-46 46 7.19	G5V	0.66	-5.00	3	2820	5680	8930	11600	12800	2820	5680	8930	11600	12800						
HD 11262	01 49 48.85	-38 24 10.21	F9VFe-0.5	0.52	-4.51	3	205	530	1140	3160	8890	205	530	1140	3160	8890						
HD 11271	01 50 52.08	+06 31 42.72	G5	0.59	-4.93	3	2220	4580	7550	10700	12600	2220	4580	7550	10700	12600						
HD 11202	01 50 53.09	+35 50 42.05	F5	0.57		112	4					81	360	2620	8570	12300	81	360	2620	8570	12300	

Table 2 continued

Table 2 (continued)

HD 12110	01 51 57.93	-81 01 9.87	K2V	0.89	-4.87	3	1720	3630	6210	9430	12300	1720	3630	6210	9430	12300
HD 11506	01 52 50.53	-19 30 25.11	G0V	0.61	-4.90	3	1960	4090	6870	10100	12400	1960	4090	6870	10100	12400
* alf Tri	01 53 4.91	+29 34 43.78	F5III	0.48	-4.37	3	73	217	528	1860	7050	73	217	528	1860	7050
HD 11616	01 54 11.98	+09 57 2.25	G5	0.65	-4.87	3	1760	3710	6330	9540	12300	1760	3710	6330	9540	12300
HD 11083	01 54 22.19	-15 43 26.34	K2.5V:k:	0.89	-4.54	3	251	634	1330	3530	9280	251	634	1330	3530	9280
BD+20 307	01 54 50.34	+21 18 22.46	G0	0.56	-4.42	3	111	309	714	2290	7740	111	309	714	2290	7740
HD 11731	01 54 54.04	-11 30 40.77	G3V	0.64	-4.91	3	2040	4230	7080	10300	12500	2040	4230	7080	10300	12500
HD 11382	01 55 28.93	+72 53 51.39	G5	0.91	-4.91	54						76	220	322	409	605
HD 11833	01 56 22.44	+08 30 33.88	G0	0.59	-4.86	3	1670	3530	6070	9300	12300	1670	3530	6070	9300	12300
HD 11850	01 56 47.26	+23 03 4.09	G6V	0.71	-4.39	3	85	249	592	2010	7310	85	249	592	2010	7310
HD 12042	01 56 59.98	-51 45 58.49	F8.5Fe-0.7	0.49	-4.61	3	398	958	1920	4540	10200	398	958	1920	4540	10200
DK Cet	01 57 48.98	-21 54 5.34	G4V	0.67	-4.21	185	1,2,3	16	64	198	997	12	54	182	1400	8140
HD 12068	01 57 53.30	-28 50 45.97	G3V	0.70	-4.97	3	2630	5340	8520	11400	12800	2630	5340	8520	11400	12800
* lam Ari B	01 57 57.72	+23 36 11.19	G0	0.53	-4.55	3	268	673	1410	3660	9410	268	673	1410	3660	9410
HD 12165	01 59 27.84	-00 15 10.82	G2/3V	0.65	-4.86	3	1630	3450	5950	9190	12300	1630	3450	5950	9190	12300
HD 13060	02 00 47.21	-80 31 57.77	K1V	0.80	-4.96	3	2550	5190	8350	11300	12700	2550	5190	8350	11300	12700
* 112 Psc	02 00 9.16	+03 05 49.25	G2IV	0.61	-4.90	3	2020	4210	7040	10200	12500	2020	4210	7040	10200	12500
HD 12414	02 01 52.47	+07 51 51.73	F2	0.51	-4.83	3	1420	3040	5380	8650	12100	1420	3040	5380	8650	12100
HD 12484	02 02 26.73	+02 48 57.08	G1/2V	0.65	-4.32	3	44	143	373	1480	6310	44	143	373	1480	6310
HD 12585	02 02 43.44	-29 48 51.03	G3V	0.66	-4.96	3	2490	5080	8210	11200	12700	2490	5080	8210	11200	12700
HD 12495	02 03 49.17	+50 30 2.37	F8	0.59	-4.96	47						631	2140	5830	10500	12600
HD 12759	02 03 55.25	-45 24 46.46	G5V	0.69	-4.28	3	33	114	309	1310	5940	33	114	309	1310	5940
HD 12424	02 03 9.59	+48 37 13.40	G0	0.63	-4.68	62						275	788	2690	7990	12100
HD 12754	02 04 40.49	-16 17 15.49	F8.5V	0.57	-4.44	3	620	1430	2740	5760	10900	620	1430	2740	5760	10900
FN Cet	02 04 59.33	-15 40 41.17	K0V	0.83	-4.44	3	130	355	805	2480	8030	130	355	805	2480	8030
HD 12846	02 06 30.24	+24 20 2.37	G2V	0.66	-4.92	3	2120	4390	7300	10500	12500	2120	4390	7300	10500	12500
HD 13043	02 07 34.27	-00 37 2.71	G2V	0.62	-4.95	3	2430	4970	8070	11100	12700	2430	4970	8070	11100	12700
HD 13445	02 10 25.92	-50 49 25.47	K1.5V	0.81	-4.77	3	1060	2330	4220	7550	11700	1060	2330	4220	7550	11700
HD 13345	02 10 32.40	+06 05 55.81	G0	0.51	-4.91	3	2040	4250	7100	10300	12500	2040	4250	7100	10300	12500
HD 13148	02 10 40.65	+60 57 24.92	G8III	0.89	-4.91	10						364	514	770	1090	1530
HD 13357	02 10 52.08	+13 40 59.79	G5IV	0.70	-4.69	3	675	1550	2940	6020	11100	675	1550	2940	6020	11100
AZ Ari	02 11 23.15	+21 22 38.44	G5V	0.68	-4.45	3	138	375	844	2570	8150	138	375	844	2570	8150
HD 13483	02 12 18.03	+21 58 57.63	G5	0.78	-4.63	3	474	1120	2210	4990	10500	474	1120	2210	4990	10500
HD 13724	02 12 20.68	-46 48 58.96	G3/5V	0.67	-4.82	3	1360	2920	5150	8480	12100	1360	2920	5150	8480	12100
HD 13808	02 12 42.93	-53 44 38.01	K2V	0.87	-4.97	3	2650	5370	8560	11400	12800	2650	5370	8560	11400	12800
* 66 Cet B	02 12 46.64	-02 23 46.79	G1V	0.68	-4.93	3	2240	4620	7610	10800	12600	2240	4620	7610	10800	12600
* 66 Cet	02 12 47.54	-02 23 37.07	F8V	0.55	-4.95	3	2470	5050	8170	11200	12700	2470	5050	8170	11200	12700
* eta Ari	02 12 48.09	+21 12 39.58	F5V	0.46	-4.81	3	1320	2840	5030	8370	12000	1320	2840	5030	8370	12000
V450 And	02 12 54.99	+40 40 6.22	G5V	0.67	-4.46	3	144	389	869	2620	8230	144	389	869	2620	8230
HD 13531	02 13 13.33	+40 30 27.32	G7V	0.70	-4.39	51	3,4	86	250	595	2020	232	513	1180	4430	11000
BD-01 306	02 14 40.30	-01 12 5.12	G0	0.58	-4.81	3	1260	2730	4860	8200	12000	1260	2730	4860	8200	12000
HD 13773	02 14 45.58	+22 36 0.14	G5	0.54	-4.71	3	748	1700	3190	6350	11200	748	1700	3190	6350	11200
HD 13945	02 15 16.21	-23 16 52.93	G6IV	0.74	-4.76	3	988	2190	4000	7300	11600	988	2190	4000	7300	11600
HD 13825	02 15 24.41	+24 16 16.64	G5IV-V	0.69	-4.97	3	2580	5260	8420	11400	12700	2580	5260	8420	11400	12700
HD 13836	02 15 27.34	+27 21 26.15	G8	0.70	-4.54	3	253	639	1340	3540	9300	253	639	1340	3540	9300
HD 13999	02 15 57.50	-04 05 42.45	G5V	0.61	-4.94	3	2330	4780	7830	11000	12600	2330	4780	7830	11000	12600
HD 13931	02 16 47.38	+43 46 22.79	G0	0.64	-4.94	3	2390	4900	7980	11100	12700	2390	4900	7980	11100	12700
HD 14082B	02 17 24.74	+28 44 30.41	G2V	0.61	-4.31	3	40	133	351	1430	6180	40	133	351	1430	6180
HD 13829	02 17 25.67	+65 15 43.55	F8	0.56	-4.31	28	4					1020	3460	7650	11300	12800

Table 2 continued

Table 2 (continued)

* del Tri	02 17 3.24	+34 13 27.24	G0.5VFe-0.5	0.61	-4.63	3	462	1100	2160	4920	10400	462	1100	2160	4920	10400
HD 14398	02 17 40.39	-56 15 5.25	G2V	0.65	-4.98	3	2730	5520	8730	11500	12800	2730	5520	8730	11500	12800
HD 14223	02 17 54.67	-02 47 3.25	G2V	0.51	-4.93	3	2240	4620	7620	10800	12600	2240	4620	7620	10800	12600
HD 14412	02 18 58.50	-25 56 44.47	G8V	0.72	-4.87	3	1740	3670	6260	9480	12300	1740	3670	6260	9480	12300
HD 14374	02 19 16.04	-00 46 47.42	G8V	0.74	-4.73	3	840	1890	3510	6740	11400	840	1890	3510	6740	11400
HD 14173	02 19 41.53	+60 00 47.00	G5III	0.98		12	4					290	409	634	913	1220
BD+74 106	02 20 50.39	+74 49 48.91	G5	0.99		72	4					47	142	244	297	400
BD+45 598	02 21 13.08	+46 00 7.17	K0	0.80		300	4					3	17	59	175	396
HD 14758	02 21 59.18	-29 21 7.50	G5V	0.64	-4.89	3	1900	3980	6720	9920	12400	1900	3980	6720	9920	12400
HD 14651	02 22 32.60	-23 49 0.49	G5V	0.72	-4.99	3	2740	5540	8760	11500	12800	2740	5540	8760	11500	12800
* keep For	02 23 14.54	-29 52 9.52	G0V	0.61	-4.97	50	1,2,3	2570	5230	8390	11300	483	1580	4740	8800	12500
HD 14882	02 23 14.54	-29 52 9.52	G0V	0.57	-4.48	3	173	456	999	2890	8570	173	456	999	2890	8570
HD 14382	02 23 4.74	+70 20 35.57	F5	0.57		3	4					1190	4060	8340	11600	12800
HD 15064	02 24 33.88	-40 50 25.65	G1V	0.65	-4.89	3	1930	4040	6800	9990	12400	1930	4040	6800	9990	12400
HD 15337	02 27 28.38	-27 38 6.74	K1V	0.88	-4.99	3	2800	5640	8870	11600	12800	2800	5640	8870	11600	12800
HD 15507	02 28 28.87	-45 01 22.59	G3V	0.67	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700
* 13 Tri	02 28 48.49	+29 55 54.33	G0V	0.59	-4.98	3	2660	5390	8590	11500	12800	2660	5390	8590	11500	12800
* sig Cet	02 32 5.23	-15 14 40.83	F5V	0.45	-4.62	3	431	1030	2050	4740	10300	431	1030	2050	4740	10300
* 29 Ari	02 32 54.14	+15 02 4.31	F8V	0.57	-4.79	3	1150	2500	4500	7840	11800	1150	2500	4500	7840	11800
HD 16077	02 33 13.36	-51 56 17.67	G9VFe+0.4	0.81	-4.58	3	335	821	1680	4130	9830	335	821	1680	4130	9830
HD 16382	02 33 6.17	-72 26 38.03	G2V	0.62	-4.93	3	2250	4630	7630	10800	12600	2250	4630	7630	10800	12600
HD 16358	02 36 47.74	-25 01 25.56	G2V	0.60	-4.91	3	2060	4280	7150	10300	12500	2060	4280	7150	10300	12500
HD 16176	02 36 57.19	+38 44 0.92	F5V	0.48	-4.69	3	664	1520	2900	5970	11000	664	1520	2900	5970	11000
HD 16249	02 36 7.77	-10 55 7.81	G3V	0.64	-4.90	3	1970	4120	6910	10100	12400	1970	4120	6910	10100	12400
HD 16297	02 36 7.83	-28 13 6.98	G9V	0.77	-4.75	3	940	2090	3840	7130	11600	940	2090	3840	7130	11600
HD 16175	02 37 1.91	+42 03 45.47	G2	0.66	-4.85	3	1580	3350	5800	9060	12200	1580	3350	5800	9060	12200
HD 16275	02 37 5.64	+12 54 6.82	G5	0.67	-4.92	3	2140	4430	7350	10500	12500	2140	4430	7350	10500	12500
* iot02 For	02 38 18.66	-30 11 38.63	F6VFe-0.7CH-0.4	0.48	-4.73	3	814	1830	3420	6630	11400	814	1830	3420	6630	11400
HD 16397	02 38 27.86	+30 48 59.86	G0V	0.59	-4.64	3	491	1160	2270	5080	10500	491	1160	2270	5080	10500
HD 16623	02 39 9.67	-26 19 7.38	F7wG3V	0.60	-4.89	3	1870	3920	6640	9840	12400	1870	3920	6640	9840	12400
HD 16673	02 40 12.42	-09 27 10.34	F8VFe-0.4	0.52	-4.51	3	215	554	1180	3250	8990	215	554	1180	3250	8990
* 84 Cet	02 41 14.00	-00 41 44.38	F7V	0.52	-4.43	73	1,2	112	312	720	2300	203	935	4040	9540	12500
CD-53 544	02 41 46.84	-52 59 52.40	K6Ve	1.21		298	2					4	12	33	120	212
AF Hor	02 41 47.31	-52 59 30.65	M2Ve	1.49		10	2					75	154	263	383	509
* 12 Per	02 42 14.91	+40 11 38.18	F9V	0.58	-4.89	3	1900	3980	6720	9910	12400	1900	3980	6720	9910	12400
HD 16760	02 42 21.31	+38 37 7.14	G2V	0.69	-4.88	3	1790	3770	6420	9630	12400	1790	3770	6420	9630	12400
CD-58 553	02 42 33.03	-57 39 36.83	K5Ve	1.05		120	2					35	105	197	287	345
* iot Hor	02 42 33.47	-50 48 1.06	F8V	0.56	-4.58	3	329	807	1650	4090	9800	329	807	1650	4090	9800
HD 16702	02 42 58.66	+58 11 52.09	G0V	0.59		61	4					381	1320	4330	9560	12500
UX For	02 43 25.57	-37 55 42.03	G5/8V+(G)	0.74	-4.02	3	2	12	76	570	3580	2	12	76	570	3580
HD 17289	02 43 35.47	-62 55 8.98	G0V	0.59	-4.91	3	2080	4320	7200	10400	12500	2080	4320	7200	10400	12500
HD 17037	02 44 0.95	-06 00 33.64	F7V	0.53	-4.86	3	1670	3530	6070	9300	12300	1670	3530	6070	9300	12300
* tet Per	02 44 11.99	+49 13 42.41	F8V	0.51	-4.36	3	68	206	505	1810	6950	68	206	505	1810	6950
HD 17134	02 44 14.62	-25 29 43.44	G3V	0.63	-4.94	3	2370	4860	7930	11000	12700	2370	4860	7930	11000	12700
HD 17207	02 45 1.10	-22 09 59.52	F7V	0.52	-4.46	3	147	396	884	2650	8270	147	396	884	2650	8270
HD 17322	02 45 41.01	-38 09 31.39	G0V	0.58	-4.79	3	1150	2520	4530	7870	11900	1150	2520	4530	7870	11900
HD 17354	02 45 44.82	-39 43 1.50	G3IV/V	0.70	-4.92	3	2180	4510	7470	10600	12500	2180	4510	7470	10600	12500
HD 17321	02 45 55.28	-30 28 51.81	G1V	0.61	-4.87	3	1700	3600	6170	9390	12300	1700	3600	6170	9390	12300
* tau01 Eri	02 45 6.20	-18 34 21.48	F7V	0.48	-4.47	3	163	432	954	2790	8450	163	432	954	2790	8450

Table 2 continued

Table 2 (continued)

HD 17190	02 46 15.21	+25 38 59.64	K1	0.84	-4.89	3	1900	3970	6710	9900	12400	1900	3970	6710	9900	12400						
HD 17449	02 47 25.63	-17 33 23.46	G2V	0.64	-4.88	3	1830	3830	6510	9710	12400	1830	3830	6510	9710	12400						
HD 17332	02 47 27.42	+19 22 18.54	G1V+G5V	0.68	-4.37	3	72	216	525	1860	7040	72	216	525	1860	7040						
HD 17382	02 48 9.15	+27 04 7.11	K2	0.82	-4.47	3	162	430	950	2780	8440	162	430	950	2780	8440						
HD 17156	02 49 44.49	+71 45 11.63	G0	0.64	-4.95	3	2460	5030	8150	11200	12700	2460	5030	8150	11200	12700						
HD 17647	02 51 39.57	+45 58 45.70	G5	0.70	-4.90	3	1970	4120	6910	10100	12400	1970	4120	6910	10100	12400						
HD 17926	02 51 56.25	-30 48 52.26	F6V	0.48	-4.73	3	834	1870	3490	6710	11400	834	1870	3490	6710	11400						
HD 17925	02 52 32.13	-12 46 10.97	K1V	0.86	-4.33	209	1,2,3	51	161	411	1580	12	53	106	200	321	34	71	127	212	314	
HD 18144	02 55 17.41	+16 18 33.09	G8V	0.75	-4.84	3	1490	3190	5560	8850	12200	1490	3190	5560	8850	12200						
HD 18194	02 55 9.30	-07 59 45.35	G9V	0.73	-4.89	3	1910	4000	6750	9950	12400	1910	4000	6750	9950	12400						
HD 18262	02 56 13.77	+08 22 53.62	F6III-IVs	0.48	-4.87	3	1710	3620	6190	9410	12300	1710	3620	6190	9410	12300						
HD 18455	02 57 14.71	-24 58 10.25	K2V	0.86	-4.87	3	1730	3660	6250	9470	12300	1730	3660	6250	9470	12300						
HD 18599	02 57 2.95	-56 11 31.51	K2Vk:	0.88	-4.42	3	104	293	681	2210	7630	104	293	681	2210	7630						
HD 18709	02 58 59.07	-43 44 53.99	G0VFe-0.4	0.59	-4.85	3	1540	3270	5680	8960	12200	1540	3270	5680	8960	12200						
HD 18809	03 00 19.72	-37 27 16.17	G4V	0.68	-4.31	3	43	141	367	1470	6270	43	141	367	1470	6270						
* 51 Ari	03 02 26.03	+26 36 33.26	G8V	0.70	-4.87	3	1720	3640	6220	9440	12300	1720	3640	6220	9440	12300						
HD 18894	03 02 9.27	-06 29 40.34	G0V	0.60	-4.79	3	1160	2530	4540	7880	11900	1160	2530	4540	7880	11900						
HD 18975	03 03 1.79	-02 05 11.34	F7V	0.52	-4.49	3	181	474	1030	2960	8650	181	474	1030	2960	8650						
HD 18940	03 03 28.65	+23 03 40.90	G0	0.62	-4.55	3	280	699	1450	3740	9490	280	699	1450	3740	9490						
HD 18900	03 03 35.64	+36 26 31.22	F8	0.61	-4.55	40	4	675	2120	5720	10400	675	2120	5720	10400	12600						
HD 19034	03 03 38.96	-05 39 58.67	G5V	0.68	-4.96	3	2500	5090	8230	11200	12700	2500	5090	8230	11200	12700						
HD 19019	03 03 50.82	+06 07 59.89	G0V	0.55	-4.58	3	343	838	1710	4180	9880	343	838	1710	4180	9880						
HD 18916	03 04 24.93	+50 01 56.53	G5	0.70	-4.89	3	1860	3890	6600	9800	12400	1860	3890	6600	9800	12400						
HD 19330	03 04 33.14	-51 19 19.56	F8V	0.57	-4.76	3	963	2140	3910	7210	11600	963	2140	3910	7210	11600						
HD 19423	03 04 54.91	-57 09 58.59	G2V	0.65	-4.92	3	2130	4420	7330	10500	12500	2130	4420	7330	10500	12500						
HD 18993	03 04 59.77	+46 35 5.87	G0	0.62	-4.76	3	1000	2220	4050	7360	11700	1000	2220	4050	7360	11700						
HD 18823	03 05 12.36	+65 33 6.14	F8	0.55	-4.55	15	4	1060	3800	8110	11500	1060	3800	8110	11500	12800						
BD+31 539	03 06 33.08	+32 15 18.22	G0	0.63	-4.58	93	4	114	321	1320	6250	114	321	1320	6250	11700						
CCDM J03072+4306AB	03 07 14.41	+43 05 56.90		0.59	-4.58	93	4	135	486	2560	8370	135	486	2560	8370	12200						
HD 19308	03 07 39.40	+36 37 3.44	G0	0.67	-4.95	3	2430	4970	8070	11100	12700	2430	4970	8070	11100	12700						
HD 19641	03 08 26.42	-37 51 8.05	G2V	0.66	-4.82	3	1340	2890	5110	8440	12000	1340	2890	5110	8440	12000						
HD 19632	03 08 52.45	-24 53 15.53	G5V	0.68	-4.47	3	154	411	913	2710	8350	154	411	913	2710	8350						
* 1st Per	03 09 4.02	+49 36 47.80	G0V	0.59	-4.93	3	2250	4650	7650	10800	12600	2250	4650	7650	10800	12600						
IS Eri	03 09 42.29	-09 34 46.58	G8/K0V	0.80	-4.36	191	2,3	66	199	491	1770	6890	14	62	125	213	480	42	86	148	231	415
HD 19618	03 09 59.67	+15 22 23.67	K0IV-V	0.82	-4.73	3	815	1830	3420	6640	11400	815	1830	3420	6640	11400						
BD+42 718	03 10 25.05	+42 48 7.13	G0	0.87	-4.73	18	4	324	496	896	1540	324	496	896	1540	2480						
HD 19773	03 10 43.34	-06 31 33.62	F8/G0V	0.55	-4.78	3	1070	2350	4260	7590	11800	1070	2350	4260	7590	11800						
HD 19617	03 10 9.90	+18 20 44.02	G5	0.68	-4.82	3	1360	2930	5160	8490	12100	1360	2930	5160	8490	12100						
BD+21 418	03 11 13.84	-22 24 57.11	G5	0.71	-4.37	3	69	206	506	1810	6960	69	206	506	1810	6960						
* alf For	03 12 4.53	-28 59 15.43	F6V+G7V	0.54	-4.83	3	1450	3100	5430	8740	12100	1450	3100	5430	8740	12100						
HD 20033	03 12 40.80	-18 12 50.90	F3V	0.49	-4.25	3	23	85	246	1140	5530	23	85	246	1140	5530						
* 94 Cet	03 12 46.44	-01 11 45.95	F8.5V	0.57	-4.77	12	1,2,3	1020	2260	4110	7480	1170	3960	8220	11600	12800	1440	2800	4880	8760	12200	
HD 20201	03 12 54.38	-47 09 18.84	F9.5V	0.58	-4.87	3	1720	3640	6320	9440	12300	1720	3640	6320	9440	12300						
CCDM J03130+4417AB	03 12 57.09	+44 17 14.39	G0	0.56	-4.58	56	4	505	1900	5580	10400	505	1900	5580	10400	12600						
HD 19902	03 13 2.79	+32 53 47.22	G5V	0.73	-4.59	3	371	899	1820	4370	10000	371	899	1820	4370	10000						
HD 20155	03 13 24.05	-28 58 28.92	G0V	0.62	-4.97	3	2620	5310	8490	11400	12800	2620	5310	8490	11400	12800						
HD 20165	03 14 47.23	+08 58 50.86	K1V	0.87	-4.97	3	2570	5230	8390	11300	12700	2570	5230	8390	11300	12700						
HD 19961	03 14 55.03	+56 18 17.25	G0IV	0.70	-4.84	3	1510	3230	5610	8900	12200	1510	3230	5610	8900	12200						
HD 20407	03 15 6.39	-45 39 53.36	G5VFe-1.2CH-1	0.59	-4.87	3	1730	3650	6240	9460	12300	1730	3650	6240	9460	12300						

Table 2 continued

Table 2 (continued)

BD+30 516	03 16 56.38	+31 01 49.83	K0	0.90	4	4	363	514	758	1030	1360	363	514	758	1030	1360	
HD 20112	03 16 7.75	+51 34 0.43	F8	0.55	51	4	597	2220	6080	10600	12600	597	2220	6080	10600	12600	
HD 20439	03 17 32.78	+07 41 24.56	F8V	0.62	3	119	329	752	2370	7860	119	329	752	2370	7860	119	
HD 20367	03 17 40.05	+31 07 37.36	F8V	0.57	1,2,3	91	146	596	3100	8910	12400	144	312	613	1310	4140	
HD 20347	03 17 44.02	+38 38 21.18	G0	0.61	3	876	1960	3630	6880	11500	876	1960	3630	6880	11500	876	
* zet01 Ret	03 17 46.16	-62 34 31.15	G2.5VHdell	0.64	3	667	1530	2910	5980	11100	667	1530	2910	5980	11100	667	
* zet02 Ret	03 18 12.82	-62 30 22.92	G1V	0.60	3	1730	3640	6230	9450	12300	1730	3640	6230	9450	12300	1730	
HD 20619	03 19 1.89	-02 50 35.49	G1.5V	0.66	3	1500	3210	5590	8880	12200	1500	3210	5590	8880	12200	1500	
* kap01 Cet	03 19 21.70	+03 22 12.72	G5V	0.68	3	95	273	641	2120	7490	95	273	641	2120	7490	95	
HD 275148	03 19 52.79	+42 12 31.04	K0	1.05	349	4	3	11	61	210	320	3	11	61	210	320	
HD 20782	03 20 3.58	-28 51 14.66	G1.5V	0.63	3	2500	5090	8230	11200	12700	2500	5090	8230	11200	12700	2500	
HD 20727	03 20 37.00	+09 02 0.73	G0	0.69	3	2370	4860	7930	11000	12700	2370	4860	7930	11000	12700	2370	
BD-19 660	03 20 50.71	-19 16 8.72	K7V	1.08	63	1	47	146	269	344	407	47	146	269	344	407	
V686 Per	03 20 59.45	+33 13 5.97	K0V	0.73	3	199	516	1110	3110	8840	199	516	1110	3110	8840	199	
HD 21036	03 21 23.86	-52 51 18.46	G6IV	0.73	3	347	847	1720	4210	9900	347	847	1720	4210	9900	347	
HD 20675	03 21 52.53	+49 04 15.26	F6V	0.47	3	569	1320	2560	5500	10800	569	1320	2560	5500	10800	569	
HD 21058	03 22 16.77	-41 18 55.68	G6V	0.70	3	483	1140	2250	5040	10500	483	1140	2250	5040	10500	483	
HD 21175	03 23 35.26	-40 04 34.97	K0V	0.84	3	904	2020	3720	6990	11500	904	2020	3720	6990	11500	904	
HD 20932	03 23 41.39	+34 25 18.63	K0	1.05	35	4	87	280	393	521	708	87	280	393	521	708	
BD+66 265B	03 24 13.21	+67 27 23.63	G0V	0.68	35	4	510	1300	4080	9410	12400	510	1300	4080	9410	12400	
BD+11 468	03 24 50.36	+12 15 23.70	G0V	0.57	3	2550	5190	8340	11300	12700	2550	5190	8340	11300	12700	2550	
HD 21411	03 26 11.12	-30 37 4.12	G8V	0.72	3	994	2200	4020	7330	11700	994	2200	4020	7330	11700	994	
HD 21316	03 26 17.33	-01 02 6.27	G0V	0.62	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400	1830	
HD 21313	03 27 29.39	+34 48 23.84	G0	0.62	3	2810	5650	8890	11600	12800	2810	5650	8890	11600	12800	2810	
HD 21523	03 29 51.77	+41 10 35.07	K0	1.10	67	4	43	129	231	295	362	43	129	231	295	362	
HD 21899	03 30 13.58	-41 22 11.77	F7V	0.49	3	634	1460	2800	5830	11000	634	1460	2800	5830	11000	634	
HD 21494	03 30 28.35	+54 17 37.67	G8III	0.68	0	3,4	68	205	504	1810	6950	68	205	504	1810	6950	
HD 21841	03 30 40.06	-19 26 8.09	G5V	0.67	3	530	1240	2420	5290	10700	530	1240	2420	5290	10700	530	
HD 21938	03 30 50.34	-37 22 20.24	G0V	0.59	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700	2440	
HD 21847	03 32 39.92	+35 39 33.45	F8	0.50	3	254	642	1350	3550	9310	254	642	1350	3550	9310	254	
* eps Eri	03 32 55.84	-09 27 29.73	K2V	0.88	1	1,2,3	228	581	1240	3350	9090	228	581	1240	3350	9090	228
HD 21962	03 32 57.53	+16 35 54.34	F5	0.50	3	618	1430	2740	5750	10900	618	1430	2740	5750	10900	618	
HD 21742	03 33 26.82	+59 25 0.36	K1IV	0.87	3	2600	5270	8450	11400	12700	2600	5270	8450	11400	12700	2600	
HD 21904	03 33 7.75	+35 23 56.12	G5	0.88	23	4	260	423	647	1060	1610	260	423	647	1060	1610	
HD 22179	03 35 29.90	+31 13 37.44	G5IV	0.60	185	3,4	14	89	1280	7030	12000	2	8	29	97	474	
* 10 Tau	03 36 52.14	+00 23 58.54	F9IV-V	0.57	3,4	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600	2280
HD 22705	03 36 53.40	-49 57 28.85	G2V	0.59	3	35	118	318	1340	5990	35	118	318	1340	5990	35	
HD 22670	03 39 4.46	+09 39 10.24	G	0.70	3	213	549	1180	3230	8970	213	549	1180	3230	8970	213	
HD 23079	03 39 43.10	-52 54 57.02	F9.5V	0.58	3	1450	3100	5430	8740	12100	1450	3100	5430	8740	12100	1450	
HD 22879	03 40 22.07	-03 13 1.12	G0Vmf2	0.55	3	2520	5130	8270	11300	12700	2520	5130	8270	11300	12700	2520	
HD 22743	03 41 15.91	+45 53 45.02	F8	0.65	54	4	313	831	2630	7770	12100	313	831	2630	7770	12100	313
HD 22848	03 41 23.14	+34 58 49.90	K0	1.04	6	4	315	430	563	709	869	315	430	563	709	869	315
HD 22875	03 41 59.43	+40 52 55.19	G5	0.64	53	4	345	951	3050	8310	12200	345	951	3050	8310	12200	345
HD 23308	03 42 9.86	-45 57 28.40	F7V	0.52	3	78	231	557	1930	7170	78	231	557	1930	7170	78	
HD 23221	03 43 24.69	+00 26 42.48	G2V	0.64	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800	2730	
HD 23456	03 43 4.76	-50 38 35.08	F9VFe-0.8CH-0.5	0.51	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600	2220	
HD 23416	03 44 42.63	-10 46 35.56	F7V	0.60	3	2600	5280	8450	11400	12700	2600	5280	8450	11400	12700	2600	
HD 23257	03 44 45.03	+27 55 15.87	G2IV	0.64	3	2160	4470	7400	10600	12500	2160	4470	7400	10600	12500	2160	
HD 23576	03 44 45.43	-38 49 5.04	G1V	0.59	3	2310	4760	7800	10900	12600	2310	4760	7800	10900	12600	2310	

Table 2 continued

Table 2 (continued)

HD 23140	03 44 48.82	+46 02 8.94	K0V	0.86	-4.68	3	640	1470	2820	5860	11000	640	1470	2820	5860	11000	
HD 23484	03 44 9.17	-38 16 54.37	K2V	0.87	-4.54	3	266	668	1400	3640	9390	266	668	1400	3640	9390	
HD 24085	03 45 1.55	-70 01 26.76	G0V	0.59	-4.93	3	2270	4680	7700	10800	12600	2270	4680	7700	10800	12600	
HD 282954	03 46 38.77	+24 57 34.73		0.63	-4.35	3	61	186	464	1710	6770	61	186	464	1710	6770	
HD 23856	03 47 19.98	-29 54 6.22	F6+V	0.51	-4.73	3	835	1880	3490	6720	11400	835	1880	3490	6720	11400	
HD 23439A	03 47 2.11	+41 25 38.10	K2:V-Fe-1.3	0.80	-4.98	3	2720	5490	8710	11500	12800	2720	5490	8710	11500	12800	
HD 23596	03 48 0.37	+40 31 50.30	F8	0.63	-4.96	3	2540	5170	8320	11300	12700	2540	5170	8320	11300	12700	
HD 24293	03 48 1.12	-64 50 11.69	G3V	0.66	-4.87	3	1760	3700	6320	9530	12300	1760	3700	6320	9530	12300	
HD 23486	03 48 19.18	+56 06 3.63	G2IV	0.64	-4.99	3	2790	5630	8870	11600	12800	2790	5630	8870	11600	12800	
HD 23524	03 48 23.00	+52 02 16.27	G5V	0.78	-4.73	246	4					5	30	82	196	505	
HD 24224	03 48 47.30	-53 10 56.30	G4V	0.63	-4.43	3	118	327	749	2360	7850	118	327	749	2360	7850	
HD 24045	03 49 11.62	-17 58 17.39	G8V	0.75	-4.55	3	270	677	1410	3670	9420	270	677	1410	3670	9420	
HD 24040	03 50 22.97	+17 28 34.93	G1	0.65	-4.99	3	2800	5650	8890	11600	12800	2800	5650	8890	11600	12800	
HD 24650	03 51 42.85	-60 21 36.17	F8V	0.57	-5.00	3	2820	5680	8920	11600	12800	2820	5680	8920	11600	12800	
HD 24213	03 52 11.40	+25 09 47.08	G0	0.58	-4.93	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600	
HD 281309	03 53 35.53	+30 46 24.41	G0	0.67	-4.85	3	1530	3270	5670	8950	12200	1530	3270	5670	8950	12200	
HD 24496	03 54 28.03	+16 36 57.79	G7V	0.72	-4.87	3	1700	3590	6160	9380	12300	1700	3590	6160	9380	12300	
HD 24521	03 54 4.92	+00 59 59.35	G2/3V	0.64	-4.41	3	98	280	655	2150	7540	98	280	655	2150	7540	
HD 25120	03 55 18.32	-65 17 4.99	K1Vk:	0.85	-4.56	3	304	752	1550	3910	9650	304	752	1550	3910	9650	
HD 25054	03 55 23.44	-60 54 25.95	F6/7V	0.54	-4.88	3	1780	3750	6380	9590	12300	1780	3750	6380	9590	12300	
HD 24727	03 55 49.34	-04 31 36.58	F5V	0.50	-4.84	3	1520	3240	5640	8920	12200	1520	3240	5640	8920	12200	
HD 24702	03 56 28.73	+22 40 27.83	G0	0.69	-4.92	3	2160	4460	7400	10600	12500	2160	4460	7400	10600	12500	
HD 24612	03 56 9.65	+33 03 32.70	F8	0.61	-4.92	3	2200	4550	7520	10700	12500	2200	4550	7520	10700	12500	
HD 25015	03 57 43.92	-20 16 4.05	K2Vk:Fe-0.5	0.90	-4.45	3	134	364	822	2520	8080	134	364	822	2520	8080	
HD 25105	03 57 55.49	-36 15 35.69	K0.5V	0.77	-4.84	3	1480	3160	5520	8810	12100	1480	3160	5520	8810	12100	
HD 24870	03 59 4.35	+43 38 19.49	G0	0.56	-4.87	108	4					90	447	3070	8990	12400	
HD 24273	03 59 7.04	+75 24 46.24	K0	1.07	-4.87	7						294	427	539	660	770	
HD 25311	04 01 46.26	+13 50 14.39	F8	0.54	-4.82	3	1370	2960	5210	8530	12100	1370	2960	5210	8530	12100	
HD 25546	04 02 21.83	-28 31 51.38	F8/G0V	0.57	-4.40	3	90	261	617	2070	7400	90	261	617	2070	7400	
HD 25874	04 02 26.99	-61 21 25.13	G2V	0.67	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400	
HD 25535	04 02 3.45	-34 28 55.78	G1/2V	0.63	-4.96	3	2530	5150	8300	11300	12700	2530	5150	8300	11300	12700	
HD 25457	04 02 36.75	-00 16 8.12	F7V	0.51	-4.35	91	1,2,3	59	181	453	1680	6720	59	239	1770	7780	12100
HD 25565	04 02 6.11	-36 37 0.94	K0V	0.87	-4.69	3	675	1550	2940	6020	11100	675	1550	2940	6020	11100	
HD 25445	04 03 10.19	+18 40 7.47	G5	0.65	-4.90	3	1990	4150	6950	10100	12500	1990	4150	6950	10100	12500	
HD 25926	04 04 55.93	-35 26 47.65	G2V	0.64	-4.41	3	102	288	672	2190	7600	102	288	672	2190	7600	
HD 25621	04 04 9.88	+02 49 37.02	F6V	0.50	-4.67	3	606	1400	2690	5690	10900	606	1400	2690	5690	10900	
* 39 Tau	04 05 20.26	+22 00 32.06	G5V	0.62	-4.42	3	108	302	700	2260	7690	108	302	700	2260	7690	
DF Cum	04 05 42.34	+57 07 37.04	K2IIIe	1.03	-4.87	98	4					34	113	211	282	350	
HD 25825	04 06 16.13	+15 41 53.23	G0V	0.59	-4.39	3	83	242	580	1980	7260	83	242	580	1980	7260	
HD 25498	04 06 43.08	+62 20 40.28	K	1.09	-4.39	49	4					55	170	297	367	480	
HD 27358	04 06 44.43	-80 44 10.01	G2V	0.63	-4.91	3	2100	4360	7250	10400	12500	2100	4360	7250	10400	12500	
HD 26040	04 07 0.57	-10 00 1.86	G1/2V	0.58	-4.92	3	2130	4420	7340	10500	12500	2130	4420	7340	10500	12500	
HD 26151	04 07 20.72	-27 25 32.38	K1V	0.83	-4.96	3	2560	5200	8360	11300	12700	2560	5200	8360	11300	12700	
HD 26491	04 07 21.63	-64 13 20.47	G1V	0.64	-4.85	3	1570	3350	5790	9050	12200	1570	3350	5790	9050	12200	
HD 25894	04 07 9.86	+27 30 33.41	G2III	0.69	-4.98	3	2680	5430	8630	11500	12800	2680	5430	8630	11500	12800	
HD 25918	04 08 14.26	+44 39 46.22	G5	0.72	-4.97	3	2640	5350	8540	11400	12800	2640	5350	8540	11400	12800	
* 50 Per	04 08 36.62	+38 02 23.06	F8V	0.49	-4.40	3	90	261	617	2070	7400	90	261	617	2070	7400	
HD 26161	04 09 38.86	+31 39 7.68	G0	0.55	-4.93	3	2230	4590	7580	10700	12600	2230	4590	7580	10700	12600	
HD 26257	04 09 9.07	+00 10 44.30	G2V	0.55	-4.87	3	1690	3560	6120	9340	12300	1690	3560	6120	9340	12300	

Table 2 continued

Table 2 (continued)

	04 09 9.75	+29 01 30.30	G8III	0.79	-3.94	345	2,3	1	8	70	533	3060	2	15	56	178	441	1	4	16	51	167
HD 281691	04 10 55.90	+47 36 38.89	F	0.59		36	4						860	2820	6810	11000	12700	860	2820	6810	11000	12700
TYC 3332-2208-1	04 14 25.65	+14 37 30.12	G5V	0.69	-4.51		3	216	555	1190	3250	9000						216	555	1190	3250	9000
HD 26756	04 14 27.25	+12 26 7.13	G0	0.64	-4.45		3	140	379	852	2580	8180						140	379	852	2580	8180
V1309 Tau	04 14 32.31	+23 34 29.80	G5V	0.66	-4.39		3	86	251	597	2020	7330						86	251	597	2020	7330
HD 26736	04 14 9.68	-46 07 56.78	F8/G0V	0.58	-4.86		3	1630	3460	5970	9210	12300						1630	3460	5970	9210	12300
HD 27019	04 15 13.72	+76 17 16.84	G5	0.87		7	4						386	593	1000	1580	2490	386	593	1000	1580	2490
HD 26018	04 15 25.79	+06 11 58.75	G8V	0.66	-4.36		3	64	194	480	1750	6840						64	194	480	1750	6840
HD 26913	04 15 28.80	+06 11 12.70	G0IV	0.56	-4.45		3	139	377	847	2570	8160						139	377	847	2570	8160
HD 26923	04 15 32.41	+58 31 20.19	K3	1.01	-4.37		3, 4						315	436	627	843	1110	315	436	627	843	1110
HD 26584	04 15 42.44	+20 49 11.28	G4V	0.70	-4.51		3	212	546	1170	3220	8960						212	546	1170	3220	8960
HD 26874	04 16 16.52	+07 09 33.78	G0V:	0.66	-4.58		3	327	802	1640	4070	9790						327	802	1640	4070	9790
HD 26990	04 16 30.24	-00 34 22.09	G3V	0.67	-4.76		3	976	2160	3960	7260	11600						976	2160	3960	7260	11600
HD 27063	04 16 32.65	+36 30 6.57	K2V	0.92		4	4						345	496	757	1050	1420	345	496	757	1050	1420
HD 26900	04 16 33.48	+21 54 26.88	K2V	0.81	-4.46		3	146	394	880	2640	8250						146	394	880	2640	8250
V984 Tau	04 17 1.32	+33 14 26.92	G8V	0.93		6	4						333	478	758	1030	1400	333	478	758	1030	1400
HD 26952	04 17 38.95	+16 56 52.21	G8V	0.74	-4.36		3	66	201	494	1780	6910						66	201	494	1780	6910
HD 27130	04 18 1.84	+18 15 24.51	G4V+G8V	0.68	-4.50		3	197	512	1110	3100	8820						197	512	1110	3100	8820
V1232 Tau	04 18 57.97	+19 54 24.13	G9V	0.74	-4.53		3	249	630	1330	3510	9270						249	630	1330	3510	9270
V893 Tau	04 19 34.26	-28 47 10.54	G2V	0.64	-4.83		3	1450	3110	5440	8750	12100						1450	3110	5440	8750	12100
HD 27530	04 19 45.47	-41 57 36.95	G3IV/V	0.68	-4.87		3	1740	3680	6280	9500	12300						1740	3680	6280	9500	12300
HD 27631	04 19 55.94	+14 52 26.87	A3	0.58	-4.67		3	603	1390	2680	5670	10900						603	1390	2680	5670	10900
HD 27384	04 19 57.08	-04 26 19.54	G5V	0.67	-4.62		3	440	1050	2080	4790	10300						440	1050	2080	4790	10300
HD 27466	04 19 8.01	+17 31 29.12	G8V	0.72	-4.39		3	82	240	575	1970	7250						82	240	575	1970	7250
HD 27282	04 23 20.16	-25 23 42.00	G3V	0.63	-4.92		3	2120	4390	7300	10500	12500						2120	4390	7300	10500	12500
HD 27905	04 23 22.33	+21 22 44.75	G5	0.76	-4.48		3	164	435	959	2800	8470						164	435	959	2800	8470
HD 27732	04 23 32.33	+14 40 13.72	G5	0.85	-4.44		3	127	348	791	2450	7980						127	348	791	2450	7980
HD 27771	04 24 28.33	+16 53 10.20	G2V	0.60	-4.49		3	187	490	1060	3010	8720						187	490	1060	3010	8720
HD 27859	04 25 19.12	-44 09 39.22	F5.5V	0.46	-4.41		3	101	286	668	2180	7580						101	286	668	2180	7580
HD 28246	04 25 23.77	-35 40 32.04	G3IV/V	0.63	-4.90		3	1960	4100	6890	10100	12400						1960	4100	6890	10100	12400
HD 28187	04 25 54.88	+57 29 42.41	G5	0.67	-4.74		3	886	1980	3660	6920	11500						886	1980	3660	6920	11500
HD 27748	04 26 29.39	+53 29 27.65	F5	0.76		54	4						144	324	538	1380	7480	144	324	538	1380	7480
HD 232953	04 26 38.60	-28 57 7.27	G9.5Vk:	0.84	-4.30		3	38	126	335	1380	6090						38	126	335	1380	6090
HD 28287	04 26 40.12	+16 44 48.88	G2+V	0.66	-4.48		3	166	441	970	2830	8500						166	441	970	2830	8500
HD 28099	04 26 48.82	-01 43 28.67	G0V	0.63	-4.52		3	226	579	1230	3340	9080						226	579	1230	3340	9080
HD 28192	04 26 8.82	+06 03 16.33	G0	0.64	-4.47		3	157	418	927	2740	8380						157	418	927	2740	8380
BD+05 653	04 27 24.70	+46 51 11.35	G0	0.71	-5.00		3	2840	5710	8960	11600	12800						2840	5710	8960	11600	12800
HD 28005	04 27 32.58	-40 28 20.55	F8/G0V	0.59	-4.96		3	2530	5160	8310	11300	12700						2530	5160	8310	11300	12700
HD 28453	04 27 46.07	+11 44 11.11	F8	0.56	-4.40		3	91	262	619	2080	7410						91	262	619	2080	7410
HD 28237	04 27 5.96	-46 56 50.97	F5.5V	0.47	-4.60		3	374	907	1830	4390	10000						374	907	1830	4390	10000
HD 28454	04 28 37.22	+19 44 26.48	G5	0.74	-4.55		3	267	671	1400	3650	9400						267	671	1400	3650	9400
V918 Tau	04 28 4.43	+13 52 4.58	G5V	0.84	-4.52		3	218	559	1190	3270	9010						218	559	1190	3270	9010
HD 28258	04 28 48.30	+17 17 7.69	G2V	0.61	-4.41		3	102	287	670	2190	7590						102	287	670	2190	7590
HD 28344	04 28 51.99	+30 21 41.58	F7V	0.51	-4.02		3	2	13	77	574	3610						2	13	77	574	3610
HD 28271	04 28 54.30	+55 00 1.73	F8	0.56	-4.80		3	1200	2610	4670	8010	11900						1200	2610	4670	8010	11900
HD 28097	04 29 30.77	+26 40 17.57	G5	0.77	-4.53		3	236	601	1270	3410	9170						236	601	1270	3410	9170
HD 283704	04 29 31.61	+17 53 35.46	K0V	0.83	-4.49		3	180	473	1030	2950	8650						180	473	1030	2950	8650
HD 285773	04 29 5.33	+40 57 2.82	F8	0.63		137	4						37	142	764	5200	11400	37	142	764	5200	11400
HD 276437	04 29 57.73	+16 40 22.23	K1V	0.86	-4.46		3	145	392	876	2630	8250						145	392	876	2630	8250
HD 28462																						

Table 2 continued



Table 2 (continued)

HD 286854	04 31 11.07	+11 14 39.81	G0	0.67	-4.41	3	95	273	641	2120	7490	95	273	641	2120	7490							
HD 28593	04 31 15.69	+20 07 59.41	G8V	0.73	-4.50	3	194	505	1090	3070	8790	194	505	1090	3070	8790							
HD 28904	04 31 4.79	-45 21 37.55	G3V	0.64	-4.43	3	113	316	727	2310	7780	113	316	727	2310	7780							
HD 28019	04 32 4.46	+73 15 29.55	G0	0.58		74				252	931	3630	9160	12400	12400	12400							
HD 28473	04 32 44.66	+58 18 52.21	G0	0.57		77				231	906	3700	9260	12400	12400	12400							
HD 28676	04 32 7.91	+21 37 56.48	F5	0.64	-4.91	3	2100	4350	7240	10400	12500	2100	4350	7240	10400	12500							
HD 28946	04 33 50.40	+05 23 6.11	G9V	0.78	-4.80	3	1210	2640	4710	8060	11900	1210	2640	4710	8060	11900							
MS Cam	04 33 54.24	+64 38 0.29		0.76	-4.29	73	3,4	36	120	323	1350	6010	76	237	363	685	2000	70	186	289	415	743	
HD 28992	04 34 35.31	+15 30 16.64		0.63	-4.47	3	154	413	917	2720	8350	154	413	917	2720	8350							
HD 29231	04 34 38.50	-35 39 28.99	G9V	0.78	-4.75	3	950	2110	3870	7160	11600	950	2110	3870	7160	11600							
HD 29161	04 35 21.56	-04 44 10.01	G3V	0.63	-4.66	3	552	1290	2500	5410	10700	552	1290	2500	5410	10700							
* 88 Tau B	04 35 35.17	+10 10 13.69	F5	0.51	-4.42	3	110	307	710	2280	7720	110	307	710	2280	7720							
HD 29303	04 35 4.56	-41 33 49.42	G2V	0.63	-4.54	3	257	649	1360	3580	9330	257	649	1360	3580	9330							
HD 29150	04 36 13.96	+21 32 11.56	G5	0.69	-4.88	3	1780	3740	6380	9590	12300	1780	3740	6380	9590	12300							
HD 28907	04 36 18.26	+55 01 35.90	G5	0.57		6				1220	4070	8330	11600	12800	1220	4070	8330	11600	12800				
HD 29310	04 37 31.98	+15 08 47.33	G0	0.60	-4.29	3	36	121	326	1360	6030	36	121	326	1360	6030							
HD 29419	04 38 51.29	+23 08 59.91	G5V	0.58	-4.42	3	110	308	711	2280	7730	110	308	711	2280	7730							
HD 29461	04 38 57.33	+14 06 20.02	G5	0.66	-4.47	3	163	433	955	2800	8460	163	433	955	2800	8460							
HD 30003	04 40 17.72	-58 56 39.50	G3V+G3V	0.68	-4.82	3	1360	2920	5160	8490	12100	1360	2920	5160	8490	12100							
HD 29813	04 40 42.43	-28 12 4.07	G3V	0.62	-4.90	3	1970	4110	6900	10100	12400	1970	4110	6900	10100	12400							
HD 29697	04 41 18.86	+20 54 5.45	K4V	1.13	-4.04	45	1,3					57	168	257	338	595							
HD 29587	04 41 36.32	+42 07 6.42	G2V	0.62	-4.78	3	1080	2370	4290	7620	11800	1080	2370	4290	7620	11800							
* 95 Tau	04 43 13.76	+24 05 20.10	G0	0.54	-4.98	3	2700	5460	8670	11500	12800	2700	5460	8670	11500	12800							
HD 29980	04 43 16.41	-09 37 5.21	G3/5V	0.65	-4.40	3	95	272	639	2120	7480	95	272	639	2120	7480							
HD 29818	04 44 11.14	+46 57 55.34	G5	0.70	-4.85	3	1560	3320	5760	9020	12200	1560	3320	5760	9020	12200							
HD 30501	04 45 38.58	-50 04 27.12	K2V	0.88	-4.78	3	1120	2450	4410	7750	11800	1120	2450	4410	7750	11800							
HD 30286	04 46 16.50	+03 16 7.60	G5VFe-0.4	0.68	-4.76	3	1010	2230	4070	7380	11700	1010	2230	4070	7380	11700							
HD 30246	04 46 30.39	+15 28 19.35	G5	0.67	-4.55	3	281	703	1460	3760	9500	281	703	1460	3760	9500							
HD 30311	04 46 45.59	+09 01 2.45	F9.5V	0.56	-4.45	3	134	364	822	2520	8080	134	364	822	2520	8080							
* 58 Eri	04 47 36.29	-16 56 4.04	G2.5IV-V	0.63	-4.52	3	226	578	1230	3330	9080	226	578	1230	3330	9080							
* 59 Eri	04 48 32.53	-16 19 46.15	F8V	0.52	-4.55	3	273	684	1430	3700	9450	273	684	1430	3700	9450							
HD 30562	04 48 36.39	-05 40 26.55	G2IV	0.63	-4.95	3	2480	5060	8190	11200	12700	2480	5060	8190	11200	12700							
HD 30774	04 49 13.32	-31 25 35.61	G5V	0.68	-4.40	3	94	270	636	2110	7470	94	270	636	2110	7470							
HD 30339	04 49 33.35	+53 21 56.56	F8	0.61	-4.86	3	1630	3450	5950	9200	12300	1630	3450	5950	9200	12300							
HD 31027	04 49 37.05	-53 52 53.45	K1V	0.85	-4.94	3	2390	4900	7990	11100	12700	2390	4900	7990	11100	12700							
HD 30743	04 49 42.24	-13 46 10.81	F6VFe-0.9CH-0.5	0.46	-4.46	3	150	402	895	2670	8300	150	402	895	2670	8300							
HD 30572	04 49 48.03	+23 23 44.73	G5Ve	0.62	-4.58	3	329	808	1650	4090	9800	329	808	1650	4090	9800							
* pi.03 Ori	04 49 50.41	+06 57 40.59	F6V	0.48	-4.57	3	309	764	1570	3950	9680	309	764	1570	3950	9680							
HD 30663	04 49 56.17	+09 29 22.47	F5	0.61	-4.87	3	1690	3580	6140	9360	12300	1690	3580	6140	9360	12300							
HD 30712	04 50 33.82	+15 05 3.36	G5	0.74	-4.51	3	215	553	1180	3250	8990	215	553	1180	3250	8990							
* iot Pic B	04 50 56.50	-53 27 34.92	F4V	0.48	-4.30	3	38	126	335	1380	6090	38	126	335	1380	6090							
HD 31261	04 51 20.55	-53 24 21.16	K2Vk:	0.89	-4.70	3	707	1610	3050	6170	11100	707	1610	3050	6170	11100							
HD 31532	04 51 20.77	-68 04 10.75	G0V	0.61	-4.96	3	2520	5140	8280	11300	12700	2520	5140	8280	11300	12700							
HD 30649	04 51 43.57	+45 50 2.84	G2	0.58	-4.84	3	1520	3250	5650	8930	12200	1520	3250	5650	8930	12200							
HD 31143	04 51 45.70	-35 50 24.63	K0V	0.77	-4.89	3	1910	3990	6730	9930	12400	1910	3990	6730	9930	12400							
HD 33214	04 52 20.74	-82 28 33.64	K2IV-V	0.89	-4.77	3	1060	2320	4220	7540	11700	1060	2320	4220	7540	11700							
HD 30736	04 52 21.51	+45 56 23.69	F7V	0.56	-4.74	3	886	1980	3660	6920	11500	886	1980	3660	6920	11500							
LP 776-25	04 52 24.41	-16 49 21.93	M3.3V	1.12		20				178	300	435	640	825	178	300	435	640	825				
HD 31975	04 53 5.65	-72 24 27.65	F9VFe-0.5	0.52	-4.78	3	1080	2370	4290	7620	11800	1080	2370	4290	7620	11800							

Table 2 continued

Table 2 (continued)

HD 31392	04 54 4.21	-35 24 16.26	G0V	0.79	-4.72	3	788	1780	3330	6520	11300	788	1780	3330	6520	11300					
HD 31253	04 54 43.65	+12 21 7.90	F8	0.58	-4.96	3	2530	5150	8300	11300	12700	2530	5150	8300	11300	12700					
HD 31412	04 55 55.89	+04 40 13.56	F9.5V	0.56	-4.76	3	968	2150	3930	7230	11600	968	2150	3930	7230	11600					
HD 31452	04 56 10.69	+02 56 3.04	G8/K0IV	0.84	-4.94	3	2380	4890	7970	11100	12700	2380	4890	7970	11100	12700					
BD+81 167	04 56 41.80	+81 35 38.27	G0	0.55		52						579	2210	6090	10600	12700					
HD 31381	04 56 51.71	+33 58 37.71	G5	1.07		28						111	327	420	620	973	710				
HD 31609	04 57 49.51	+14 00 7.88	G5	0.74	-4.57	4	3	312	771	1590	3980	9700	312	771	1590	3980	9700				
V1005 Ori	04 59 34.83	+01 47 0.67	M0Ve	1.37	-4.06	275	1,2					5	13	27	93	186	5	13	27	93	186
HD 31337	04 59 5.08	+63 22 6.29	F8V+G0V	0.57		69	4					306	1170	4190	9540	12500	306	1170	4190	9540	12500
CD-57 1054	05 00 47.13	-57 15 25.45	M0Ve	1.35	-3.80	294	1,2,3					4	11	23	82	185	4	11	23	82	185
HD 32778	05 02 17.04	-56 04 50.09	G7VFe-1.4CH-1.2	0.64	-4.81	3	1290	2790	4950	8290	12000	1290	2790	4950	8290	12000					
HD 32259	05 02 20.30	+13 54 36.86	G0	0.61	-4.89	3	1880	3940	6660	9850	12400	1880	3940	6660	9850	12400					
HD 31675	05 02 50.44	+66 49 22.70	F6V:	0.51	-4.50	3	197	512	1110	3100	8820	197	512	1110	3100	8820					
HD 32016	05 03 17.46	+54 54 53.09	G0	0.59		57	4					434	1500	4700	9800	12500	434	1500	4700	9800	12500
HD 31864	05 03 30.78	+63 04 41.43	G5V	0.74	-4.93	3	2280	4690	7710	10800	12600	2280	4690	7710	10800	12600					
HD 32820	05 03 53.95	-41 44 41.82	F8V	0.53	-4.75	3	918	2040	3770	7040	11500	918	2040	3770	7040	11500					
* zet Dor	05 05 30.66	-57 28 21.73	F9VFe-0.5	0.53	-4.32	3	46	148	383	1510	6360	46	148	383	1510	6360					
HD 32842	05 05 43.03	-09 25 49.68	F6V	0.49	-4.72	3	768	1740	3260	6440	11300	768	1740	3260	6440	11300					
HD 34297	05 06 35.68	-77 34 2.83	G8VFe-1.6CH-1.2	0.65	-4.85	3	1600	3410	5880	9130	12200	1600	3410	5880	9130	12200					
HD 32850	05 06 42.22	+14 26 46.29	G9V	0.80	-4.61	3	414	992	1980	4630	10200	414	992	1980	4630	10200					
HD 35877	05 07 18.54	-83 51 36.05	F8V	0.57	-4.63	3	456	1080	2140	4890	10400	456	1080	2140	4890	10400					
HD 33093	05 07 24.96	-12 29 28.57	G0IV	0.61	-4.97	3	2600	5290	8460	11400	12700	2600	5290	8460	11400	12700					
* m Tau	05 07 27.01	+18 38 42.18	G4V	0.66	-4.97	3	2590	5270	8450	11400	12700	2590	5270	8450	11400	12700					
* 13 Ori	05 07 38.31	+09 28 18.41	G3	0.62	-5.00	3	2840	5720	8970	11700	12800	2840	5720	8970	11700	12800					
HD 32963	05 07 55.76	+26 19 40.67	G5IV	0.66	-4.98	3	2060	5400	8590	11500	12800	2060	5400	8590	11500	12800					
HD 33095	05 07 9.74	-19 23 30.89	G1V	0.65	-4.91	3	2030	4220	7060	10200	12500	2030	4220	7060	10200	12500					
HD 33108	05 08 39.24	+13 57 58.94	G0	0.63	-4.96	3	2550	5190	8340	11300	12700	2550	5190	8340	11300	12700					
HD 33077	05 09 45.68	+42 40 16.55	K0V	0.75		4						963	2590	6360	10600	12600					
HD 32745	05 09 45.96	+63 50 0.14	G0	0.72		58						158	372	680	1920	7920	158	372	680	1920	7920
HD 33873	05 10 34.08	-51 18 5.25	G6V	0.70	-4.87	3	590	1370	2640	5610	10900	590	1370	2640	5610	10900					
HD 33608	05 11 19.18	-02 29 26.81	F5V	0.46	-4.46	3	148	399	890	2660	8280	148	399	890	2660	8280					
BD+39 1198B	05 11 3.64	+39 16 59.40	G5	0.54	-4.88	3	1800	3790	6440	9650	12400	1800	3790	6440	9650	12400					
HD 33693	05 11 37.17	-10 23 13.88	F3/5V	0.47	-4.96	3	2570	5220	8380	11300	12700	2570	5220	8380	11300	12700					
HD 33636	05 11 46.45	+04 24 12.76	G0V-CH-0.3	0.59	-4.77	3	1030	2270	4140	7460	11700	1030	2270	4140	7460	11700					
HD 33632	05 13 17.45	+37 20 14.32	F8V	0.54	-4.76	3	968	2150	3930	7230	11600	968	2150	3930	7230	11600					
HD 33580	05 14 1.74	+51 25 50.57	F8	0.63	-4.71	3	749	1700	3190	6350	11200	749	1700	3190	6350	11200					
HD 34101	05 14 20.08	-15 49 35.78	G7V	0.72	-4.94	3	2370	4870	7950	11000	12700	2370	4870	7950	11000	12700					
HD 34540	05 15 43.01	-49 26 41.73	G6IV	0.75	-4.79	3	1130	2480	4460	7800	11800	1130	2480	4460	7800	11800					
HD 34599	05 16 35.07	-42 30 51.85	G3V	0.66	-4.53	3	235	597	1270	3400	9150	235	597	1270	3400	9150					
HD 34445	05 17 40.98	+07 21 12.05	G0	0.66	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700					
HD 34962	05 18 28.18	-51 25 37.16	G8V	0.73	-4.52	3	224	573	1220	3310	9060	224	573	1220	3310	9060					
HD 34721	05 18 50.47	-18 07 48.19	G0V	0.57	-4.93	3	2210	4570	7540	10700	12600	2210	4570	7540	10700	12600					
* zet Pic	05 19 22.14	-50 36 21.48	F6IV	0.52	-4.84	3	1490	3190	5560	8850	12200	1490	3190	5560	8850	12200					
HD 34745	05 19 49.04	+02 30 49.00	F7V	0.53	-4.89	3	1920	4020	6770	9970	12400	1920	4020	6770	9970	12400					
* lam Aur	05 19 8.48	+40 05 56.59	G1.5IV-VFe-1	0.63	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600					
HD 35041	05 21 12.96	-14 09 8.83	G2VFe-0.4CH-0.5	0.64	-4.46	3	148	399	890	2660	8280	148	399	890	2660	8280					
HD 34957	05 21 38.92	+10 19 37.59	G	0.75	-4.90	3	1960	4080	6870	10100	12400	1960	4080	6870	10100	12400					
HD 33564	05 22 33.53	+79 13 52.14	F7V	0.48	-4.87	3	1760	3710	6320	9540	12300	1760	3710	6320	9540	12300					
HD 34887	05 23 3.12	+46 59 12.42	G5	0.78	-4.99	3	2760	5570	8800	11600	12800	2760	5570	8800	11600	12800					

Table 2 continued

Table 2 (continued)

* 111 Tau	05 24 25.46	+17 23 07.3	F8V	0.52	-4.36	3	65	196	485	1760	6870	65	196	485	1760	6870
HD 35650	05 24 30.17	-38 58 10.75	K6V	1.28	-4.22	15	2.3					123	248	349	479	596
HD 35676	05 24 57.98	-34 12 22.04	G7V	0.73	-4.46	3	144	389	870	2620	8230	144	389	870	2620	8230
HD 36767	05 25 19.03	-75 41 32.65	F9VFe-0.7CH+0	0.54	-4.62	3	439	1050	2080	4780	10300	439	1050	2080	4780	10300
HD 35627	05 25 53.21	-06 21 45.65	F8/G0V	0.57	-4.97	3	2610	5300	8480	11400	12800	2610	5300	8480	11400	12800
HD 35722	05 25 58.55	-19 41 23.75	F7.5V	0.51	-4.79	3	1130	2480	4460	7800	11800	1130	2480	4460	7800	11800
HD 36435	05 27 39.35	-60 24 57.58	G5V	0.76	-4.46	3	151	404	900	2680	8310	151	404	900	2680	8310
AF Lep	05 27 47.6	-11 54 3.47	F8V(n)k:	0.55	-4.15	3	8	37	137	797	4550	8	37	137	797	4550
HD 35974	05 27 6.65	-31 33 58.22	G1V	0.60	-4.98	3	2710	5480	8690	11500	12800	2710	5480	8690	11500	12800
HD 35681	05 28 0.94	+33 45 49.33	F7V	0.51	-4.71	3	733	1670	3140	6280	11200	733	1670	3140	6280	11200
HD 36705	05 28 44.89	-65 26 55.29	K0V	0.84	-3.88	267	1.3	2	10	74	526	2670	4	26	70	316
HD 35956	05 28 51.64	+12 33 3.01	G0V	0.58	-4.87	3	1710	3610	6180	9400	12300	1710	3610	6180	9400	12300
HD 278253	05 29 20.64	+39 20 38.55	G5	0.60	-4.98	3	2670	5400	8600	11500	12800	2670	5400	8600	11500	12800
HD 35984	05 29 40.65	+29 11 11.27	F6III	0.46	-4.06	3	3	17	88	624	3970	3	17	88	624	3970
HD 36516	05 31 1.17	-28 31 43.53	G3V	0.58	-4.78	3	1090	2380	4310	7640	11800	1090	2380	4310	7640	11800
HD 36215	05 31 22.75	+27 46 8.57	F9IV/V	0.63	-4.93	3	2250	4640	7640	10800	12600	2250	4640	7640	10800	12600
HD 36308	05 31 23.55	+12 33 21.94	G5	0.81	-4.40	3	90	260	615	2060	7400	90	260	615	2060	7400
HD 35598	05 32 14.35	+70 48 54.69	G5	0.67		63	4					205	502	1360	5180	11200
* 18 Cam	05 32 33.80	+57 13 15.86	F8V	0.59	-4.80	3	1220	2650	4720	8070	11900	1220	2650	4720	8070	11900
HD 37351	05 33 13.69	-65 01 21.68	G1V	0.59	-4.74	3	861	1930	3580	6820	11500	861	1930	3580	6820	11500
HD 36387	05 33 16.88	+39 30 20.53	G0	0.59	-4.91	3	2060	4290	7150	10300	12500	2060	4290	7150	10300	12500
BD+38 1205	05 33 44.65	+38 52 35.19	G0	0.62	-4.74	3	882	1970	3650	6900	11500	882	1970	3650	6900	11500
HD 244992	05 34 17.59	+11 59 20.04	G0	0.66	-4.55	3	284	708	1470	3770	9520	284	708	1470	3770	9520
HD 36994	05 36 30.19	+25 56 24.62	F5III	0.45	-4.00	3	2	10	72	552	3400	2	10	72	552	3400
UY Pic	05 36 56.85	-47 57 52.88	K0V	0.97	-4.20	274	1.2,3					6	29	66	167	256
HD 38283	05 37 2.02	-73 41 57.64	F9.5V	0.58	-4.89	3	1860	3910	6610	9810	12400	1860	3910	6610	9810	12400
HD 37124	05 37 2.49	+20 43 50.83	G4IV-V	0.67	-4.82	3	1360	2930	5170	8500	12100	1360	2930	5170	8500	12100
HD 36130	05 37 33.48	+74 41 19.55	G0	0.62	-4.83	3	1410	3030	5320	8640	12100	1410	3030	5320	8640	12100
* pi. Men	05 37 9.89	-80 28 8.83	G0V	0.60	-4.87	3	1760	3700	6320	9530	12300	1760	3700	6320	9530	12300
HD 37655	05 38 1.88	-42 57 48.52	G0V	0.60	-4.96	3	2530	5160	8310	11300	12700	2530	5160	8310	11300	12700
HD 37706	05 38 9.39	-46 06 21.74	G9V+K5V	0.77	-4.86	3	1680	3560	6110	9340	12300	1680	3560	6110	9340	12300
HD 37216	05 39 52.35	+52 53 50.95	G5V	0.76	-4.48	3	166	441	971	2830	8500	166	441	971	2830	8500
HD 37588	05 40 17.62	+16 23 34.14	F5	0.52	-4.88	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400
HD 37962	05 40 51.97	-31 21 3.99	G2V	0.65	-4.75	3	941	2090	3840	7130	11600	941	2090	3840	7130	11600
HD 37394	05 41 20.34	+53 28 51.81	K1	0.84	-4.49	3	179	471	1030	2940	8640	179	471	1030	2940	8640
TYC 4081-29-1	05 41 28.59	+61 18 46.11		0.72		97	4					51	189	327	774	3250
HD 38459	05 43 26.46	-47 49 22.71	KIIIV-V	0.86	-4.52	3	230	586	1240	3360	9110	230	586	1240	3360	9110
HD 38397	05 43 35.81	-39 55 24.72	G0V	0.59	-4.21	3	16	64	198	997	5150	16	64	198	997	5150
HD 38683	05 44 13.62	-55 41 43.77	F7/8V	0.57	-4.76	3	1010	2230	4060	7370	11700	1010	2230	4060	7370	11700
HD 37977	05 44 24.69	+40 24 16.85	G0	0.56	-4.71	3	746	1690	3180	6340	11200	746	1690	3180	6340	11200
AK Lep	05 44 26.54	-22 25 18.61	K3	0.48	-4.05	3	3	16	85	610	3870	3	16	85	610	3870
* gam Lep	05 44 27.79	-22 26 54.18	F6V	0.48	-4.79	3	1160	2540	4550	7900	11900	1160	2540	4550	7900	11900
HD 38382	05 44 28.40	-20 07 35.66	F8.5V	0.57	-4.86	3	1650	3490	6010	9250	12300	1650	3490	6010	9250	12300
HD 38554	05 45 0.24	-35 47 53.24	G6V	0.70	-4.90	3	2000	4160	6970	10200	12500	2000	4160	6970	10200	12500
HD 37975	05 45 17.49	+52 38 56.15	G0	0.72		13	4					869	2360	6300	10800	12700
HD 37006	05 46 11.91	+78 15 22.52	G0	0.73	-4.35	79	3.4	61	186	464	1710	6760	69	234	383	822
HD 38973	05 46 27.99	-53 13 9.57	G0V	0.59	-4.98	3	2710	5480	8690	11500	12800	2710	5480	8690	11500	12800
HD 38400	05 47 49.89	+46 59 0.43	F8	0.59	-4.97	3	2600	5290	8470	11400	12700	2600	5290	8470	11400	12700
HD 38949	05 48 20.06	-24 27 49.85	G1V	0.57	-4.44	3	123	339	773	2410	7930	123	339	773	2410	7930

Table 2 continued

Table 2 (continued)

HD 233165	05 48 29.73	+52 32 38.43	G0	0.55	-4.67	3	605	1400	2690	5680	10900	605	1400	2690	5680	10900
HD 38858	05 48 34.94	-04 05 40.72	G2V	0.64	-4.96	3	2490	5080	8200	11200	12700	2490	5080	8200	11200	12700
HD 37879	05 50 26.69	+75 42 52.72	F8	0.53	-4.93	3	2290	4710	7740	10900	12600	2290	4710	7740	10900	12600
HD 39427	05 50 27.37	-43 41 58.73	G6V	0.68	-4.76	3	1010	2230	4070	7380	11700	1010	2230	4070	7380	11700
HD 39352	05 50 45.25	-29 06 39.16	G8IV	0.70	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600
HD 39796	05 52 44.93	-42 46 31.05	G8V(+F/G)	0.76	-4.98	3	2730	5520	8740	11500	12800	2730	5520	8740	11500	12800
HD 39251	05 52 52.74	+34 26 42.57	F8	0.58	-4.44	3, 4	121	334	762	2390	7890	121	334	762	2390	7890
BD+39 1436	05 52 53.64	+39 11 38.38	G0	0.77	-4.53	3	248	627	1320	3500	9260	248	627	1320	3500	9260
HD 40129	05 53 35.81	-56 40 13.94	G5V	0.65	-4.53	3	244	618	1300	3470	9230	244	618	1300	3470	9230
* chi01 Ori	05 54 22.98	+20 16 34.22	G0V	0.60	-4.37	3	74	221	536	1880	7090	74	221	536	1880	7090
HD 39855	05 54 30.16	-19 42 15.63	G8VFe-0.7	0.70	-4.90	3	2000	4170	6990	10200	12500	2000	4170	6990	10200	12500
HD 39997	05 54 6.43	-41 20 38.62	G0V	0.56	-4.86	3	1660	3520	6050	9290	12300	1660	3520	6050	9290	12300
HD 39833	05 55 1.96	-00 30 28.69	G3V	0.63	-4.72	3	804	1810	3380	6590	11300	804	1810	3380	6590	11300
HD 40126	05 55 36.58	-29 55 0.60	F7V	0.57	-4.88	3	1820	3820	6490	9690	12400	1820	3820	6490	9690	12400
HD 39881	05 56 3.43	+13 55 29.70	G8	0.65	-4.98	3	2670	5420	8620	11500	12800	2670	5420	8620	11500	12800
HD 41158	05 57 14.21	-69 28 40.46	F6V	0.52	-4.95	3	2420	4960	8060	11100	12700	2420	4960	8060	11100	12700
HD 40330	05 58 57.09	+18 58 47.51	G0	0.61	-5.00	3	2840	5710	8950	11600	12800	2840	5710	8950	11600	12800
BD+60 917	05 59 14.41	+60 05 4.08	G0	0.63		9						1400	3920	7980	11500	12800
HD 41004	05 59 49.65	-48 14 22.81	K1IV	0.89	-4.68	3	611	1410	2710	5710	10900	611	1410	2710	5710	10900
BD-13 1328A	06 02 21.89	-13 55 32.57	F5	1.08		230						10	28	77	216	318
HD 40650	06 02 45.14	+47 48 34.31	F5	0.57	-4.85	3	1600	3390	5870	9120	12200	1600	3390	5870	9120	12200
HD 40832	06 02 55.17	+32 38 8.51	F4V	0.46	-4.74	3	874	1960	3620	6870	11500	874	1960	3620	6870	11500
BD+44 1351	06 04 13.02	+44 16 41.08	F8V	0.97		4						321	456	688	947	1270
HD 41700	06 04 28.44	-45 02 11.77	F8V	0.52	-4.32	3	46	148	382	1500	6350	46	148	382	1500	6350
HD 40979	06 04 29.94	+44 15 37.60	F8	0.57	-4.54	3	255	643	1350	3560	9310	255	643	1350	3560	9310
HD 41824	06 04 46.68	-48 27 29.87	G5V	0.71	-4.15	3	8	38	139	806	4580	8	38	139	806	4580
HD 42287	06 05 42.02	-61 44 54.89	G0V	0.59	-4.54	3	252	636	1340	3540	9290	252	636	1340	3540	9290
HD 41842	06 06 16.62	-27 54 20.98	K1V	0.87	-4.49	3	181	475	1040	2960	8660	181	475	1040	2960	8660
HD 41343	06 06 3.32	+33 15 14.60	G5	0.67		42						435	1130	3480	8810	12300
V1386 Ori	06 06 40.48	+15 32 31.58	K0V	0.82	-4.40	3	89	258	610	2050	7380	89	258	610	2050	7380
HD 40647	06 06 5.77	+69 28 34.42	G5V	0.78	-4.46	3	151	405	902	2690	8310	151	405	902	2690	8310
HD 41330	06 06 8.54	+35 23 15.86	G0V	0.60	-4.98	3	2710	5480	8690	11500	12800	2710	5480	8690	11500	12800
HD 41414	06 07 3.10	+41 45 41.30	F8	0.64		96						100	276	989	5250	11400
CD-35 2722	06 09 19.21	-35 49 31.06	M1Ve	1.53		10						64	138	287	475	806
* alf Men	06 10 14.47	-74 45 10.96	G7V	0.71	-4.91	10						2080	4320	7200	10400	12500
HD 42618	06 12 0.57	+06 46 59.06	G4V	0.64	-4.91	3	2040	4240	7090	10300	12500	2040	4240	7090	10300	12500
HD 43180	06 12 40.56	-43 37 44.41	G3V	0.66	-4.72	3	796	1800	3360	6560	11300	796	1800	3360	6560	11300
HD 42807	06 13 12.50	+10 37 37.71	G5V	0.68	-4.45	3	134	365	823	2520	8090	134	365	823	2520	8090
HD 43162	06 13 45.30	-23 51 42.97	G6.5V	0.71	-4.43	3	119	330	755	2380	7870	119	330	755	2380	7870
HD 44105	06 16 15.20	-59 13 9.33	F3/5V	0.46	-4.63	3	450	1070	2120	4850	10400	450	1070	2120	4850	10400
HD 43094	06 16 6.09	+37 38 11.89	K0	0.87		7						390	603	1020	1620	2560
HD 43587	06 17 16.13	+05 05 59.92	G0V	0.60	-4.87	3	1720	3640	6220	9440	12300	1720	3640	6220	9440	12300
HD 43745	06 17 3.60	-22 42 54.83	F8.5V	0.58	-4.98	3	2650	5380	8580	11400	12800	2650	5380	8580	11400	12800
HD 237475	06 18 21.28	+57 27 4.92	G5	0.84		140						26	96	170	243	429
AO Men	06 18 28.21	-72 02 41.45	K4Ve	1.16	-3.88	357						3	10	34	130	218
HD 44135	06 18 52.58	-28 07 21.24	G1/2V	0.63	-4.30	3	37	123	330	1370	6060	37	123	330	1370	6060
HD 44627	06 19 12.91	-58 03 15.52	K1V(e)	0.81		320						3	16	54	171	374
HD 43691	06 19 34.68	+41 05 32.31	G0IV	0.60	-4.78	3	1080	2370	4290	7630	11800	1080	2370	4290	7630	11800
HD 43523	06 19 4.79	+47 23 38.52	F5	0.56	-4.58	3	339	830	1690	4160	9860	339	830	1690	4160	9860

Table 2 continued

Table 2 (continued)

HD 43947	06 19 40.17	+16 00 47.69	F8V	0.56	-4.86	3	1680	3550	6100	9320	12300	1680	3550	6100	9320	12300	
V1358 Ori	06 19 8.06	-03 26 20.36	G0V	0.58	-4.14	1.3	7	33	127	763	4450	3	14	44	145	737	
HD 43296	06 20 41.49	+66 37 44.80	G0	0.59	-4.90	3	1990	4140	6950	10100	12500	1990	4140	6950	10100	12500	
HD 44665	06 20 46.84	-44 47 21.00	G5V	0.75	-4.53	3	245	621	1310	3480	9240	245	621	1310	3480	9240	
HD 44569	06 21 37.35	-18 10 0.05	G3/5V	0.62	-4.92	3	2160	4470	7410	10600	12500	2160	4470	7410	10600	12500	
HD 44663	06 21 43.69	-27 30 25.76	F7V	0.56	-4.94	3	2340	4800	7850	11000	12600	2340	4800	7850	11000	12600	
HD 45270	06 22 30.94	-60 13 7.14	G1V	0.61	-4.34	1.49	1.2,3	53	167	423	1610	6570	36	93	199	470	1620
HD 45701	06 24 26.60	-63 25 44.42	G1V	0.66	-4.95	3	2420	4960	8060	11100	12700	2420	4960	8060	11100	12700	
HD 44614	06 24 30.86	+38 34 9.01	G0	0.63	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600	
HD 45184	06 24 43.88	-28 46 48.42	G2Va	0.63	-4.91	3	2110	4380	7290	10500	12500	2110	4380	7290	10500	12500	
HD 45067	06 25 16.55	-00 56 45.18	F9V	0.56	-4.89	3	1890	3960	6700	9890	12400	1890	3960	6700	9890	12400	
HD 44985	06 25 20.24	+11 13 59.68	F8	0.59	-4.92	3	2150	4450	7380	10500	12500	2150	4450	7380	10500	12500	
HD 256714	06 25 27.25	+29 34 15.93	G2III	0.68	-4.97	3	2640	5350	8540	11400	12800	2640	5350	8540	11400	12800	
HD 45194	06 26 39.21	+13 06 4.23	F7V	0.56	-4.61	3	409	981	1960	4600	10200	409	981	1960	4600	10200	
HD 44491	06 26 41.80	+64 05 27.22	G5	0.61		43	4					620	1970	5470	10300	12600	
HD 45738	06 26 59.19	-44 07 21.92	F5V	0.46	-4.78	3	1100	2420	4360	7700	11800	1100	2420	4360	7700	11800	
HD 45588	06 27 11.36	-25 51 23.39	F8IV	0.55	-4.87	3	1710	3600	6170	9400	12300	1710	3600	6170	9400	12300	
HD 45665	06 27 20.66	-33 06 50.44	G5V	0.71	-4.51	3	208	538	1150	3190	8930	208	538	1150	3190	8930	
HD 43748	06 28 33.51	+77 57 33.72	G5III-IV	0.91		14	4					306	443	686	1000	1340	
HD 45391	06 28 46.03	+36 28 47.97	G1V	0.61	-4.80	3	1190	2600	4650	8000	11900	1190	2600	4650	8000	11900	
HD 45652	06 29 13.19	+10 56 2.01	K5	0.85	-4.97	3	2640	5360	8550	11400	12800	2640	5360	8550	11400	12800	
HD 46435	06 30 19.22	-52 52 16.60	G3/5V	0.70	-4.72	3	786	1770	3320	6510	11300	786	1770	3320	6510	11300	
HD 46569	06 31 18.33	-51 49 33.45	F8VFe-0.4	0.53	-4.93	3	2240	4620	7610	10800	12600	2240	4620	7610	10800	12600	
HD 46090	06 31 21.49	+02 54 40.66	G3/5V	0.71	-4.91	3	2050	4250	7110	10300	12500	2050	4250	7110	10300	12500	
HD 46375	06 33 12.62	+05 27 46.53	K1IV	0.86	-5.00	3	2850	5730	8980	11700	12800	2850	5730	8980	11700	12800	
HD 46013	06 33 27.16	+48 22 28.52	G5	0.65	-4.91	3	2110	4370	7270	10400	12500	2110	4370	7270	10400	12500	
HD 46816	06 33 38.54	-39 38 30.90	G2V	0.63	-4.95	3	2450	5020	8130	11200	12700	2450	5020	8130	11200	12700	
HD 45161	06 35 33.55	+76 51 58.87	G5	0.69	-4.58	3	340	832	1700	4160	9860	340	832	1700	4160	9860	
HD 46872	06 35 33.97	-03 58 58.55	F7V	0.54	-4.64	3	485	1150	2250	5050	10500	485	1150	2250	5050	10500	
HD 43883	06 35 42.03	+82 32 24.75	G0	0.61		82	4					169	530	2280	7870	12100	
HD 47855	06 35 54.77	-64 52 51.64	F6V	0.47	-4.66	3	544	1270	2470	5370	10700	544	1270	2470	5370	10700	
BD+75 256	06 36 12.04	+74 56 12.77	G5	0.77	-4.56	3	303	751	1550	3910	9640	303	751	1550	3910	9640	
HD 47283	06 36 12.57	-36 08 18.41	G1V	0.62	-4.67	3	575	1340	2580	5530	10800	575	1340	2580	5530	10800	
BD+74 290	06 36 2.88	+74 17 34.68	F5	0.72		27	4					557	1390	4690	10000	12600	
HD 45821	06 36 30.55	+72 00 33.20	G0V:	0.65	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800	
BD+37 1545	06 36 46.40	+37 51 6.53	G5	0.75	-4.56	3	292	727	1510	3840	9580	292	727	1510	3840	9580	
HD 47391	06 37 3.98	-32 13 30.68	G7V	0.70	-4.92	3	2190	4520	7480	10600	12500	2190	4520	7480	10600	12500	
HD 47127	06 37 33.90	+12 10 50.01	G5	0.72	-4.98	3	2700	5460	8670	11500	12800	2700	5460	8670	11500	12800	
HD 48611	06 37 50.57	-70 55 57.41	G9.5V	0.74	-4.97	3	2590	5270	8440	11400	12700	2590	5270	8440	11400	12700	
HD 48189	06 38 0.38	-61 32 0.10	G1/2V	0.62	-4.25	3	23	84	244	1130	5510	23	84	244	1130	5510	
HD 48189A	06 38 0.39	-61 32 0.21	G0V	0.61	-4.27	145	1	28	99	278	1230	5750	33	143	1220	6690	11900
HD 47381	06 38 55.85	+15 12 24.66	F5	0.53	-4.78	3	1070	2350	4260	7590	11800	1070	2350	4260	7590	11800	
HD 47415	06 39 31.48	+24 36 0.59	F8IV	0.53	-4.08	3	4	20	95	651	4080	4	20	95	651	4080	
HD 47467	06 40 42.49	+40 10 6.79	F5	0.63	-4.73	3	853	1910	3550	6790	11400	853	1910	3550	6790	11400	
HD 47309	06 40 49.04	+51 58 41.97	G0	0.67	-4.99	3	2770	5590	8830	11600	12800	2770	5590	8830	11600	12800	
HD 48056	06 41 23.31	-02 21 0.07	G0V	0.58	-4.87	3	1720	3630	6210	9430	12300	1720	3630	6210	9430	12300	
HD 49035	06 42 23.25	-61 13 29.89	G5/6IV/V	0.76	-4.76	3	993	2200	4010	7320	11700	993	2200	4010	7320	11700	
BD+40 1685	06 42 37.43	+39 55 12.90	G0	0.70	-4.39	3	83	242	579	1980	7260	83	242	579	1980	7260	
HD 47373	06 42 46.20	+64 05 44.94	K0	1.01		27	4					164	315	444	722	992	

Table 2 continued

Table 2 (continued)

HD 48286	06 42 5.20	-15 12 54.91	F9VFe-0.5CH-0.4	0.56	-4.80	3	1230	2680	4770	8120	11900	1230	2680	4770	8120	11900	
HD 49134	06 43 51.98	-54 34 2.18	K0V	0.82	-4.55	3	270	677	1410	3670	9420	270	677	1410	3670	9420	
HD 48969	06 44 1.37	-42 42 52.33	G5V	0.69	-4.87	3	1730	3650	6240	9460	12300	1730	3650	6240	9460	12300	
HD 48938	06 44 51.95	-27 20 30.00	G0VFe-0.8CH-0.5	0.55	-4.83	3	1450	3100	5430	8740	12100	1450	3100	5430	8740	12100	
HD 49095	06 45 22.94	-31 47 37.13	F6.5V	0.49	-4.67	3	578	1340	2590	5550	10800	578	1340	2590	5550	10800	
HD 46588	06 46 14.15	+79 33 53.32	F7V	0.50	-4.82	3	1380	2960	5210	8540	12100	1380	2960	5210	8540	12100	
* psi05 Aur	06 46 44.34	+43 34 38.74	F9V	0.57	-4.83	3	1440	3080	5390	8700	12100	1440	3080	5390	8700	12100	
HD 48780	06 47 53.46	+52 15 4.49	G5	0.68		113	46	170	374	1710	8030	46	170	374	1710	8030	
HD 49197	06 49 21.33	+43 45 32.78	F5	0.55	-4.35	3	62	189	471	1730	6800	62	189	471	1730	6800	
HD 50223	06 49 54.62	-46 36 52.42	F5.5V	0.46	-4.59	3	362	880	1780	4310	9980	362	880	1780	4310	9980	
HD 50571	06 50 1.02	-60 14 56.92	F5VFe+0.4	0.46	-4.48	3	170	449	986	2860	8530	170	449	986	2860	8530	
HD 49736	06 51 0.43	+25 45 37.30	F8	0.60	-4.88	3	1830	3840	6510	9720	12400	1830	3840	6510	9720	12400	
HD 49674	06 51 30.52	+40 52 3.93	G0	0.73	-4.83	3	1420	3040	5340	8650	12100	1420	3040	5340	8650	12100	
HD 50499	06 52 2.02	-33 54 56.02	G0/2V	0.61	-4.97	3	2570	5230	8390	11300	12700	2570	5230	8390	11300	12700	
HD 50255	06 52 2.39	-11 12 16.24	G4.5V	0.72	-4.62	3	443	1060	2090	4810	10400	443	1060	2090	4810	10400	
* 60 Aur	06 53 13.40	+38 26 16.85	F5V:	0.49	-4.31	3	43	140	367	1470	6270	43	140	367	1470	6270	
HD 50639	06 53 44.83	-09 30 55.67	F8.5V	0.57	-4.83	3	1410	3020	5300	8620	12100	1410	3020	5300	8620	12100	
HD 50554	06 54 42.83	+24 14 44.01	F8V	0.58	-4.84	3	1470	3150	5500	8800	12100	1470	3150	5500	8800	12100	
* 37 Gem	06 55 18.67	+25 22 32.50	G0V	0.58	-4.88	3	1850	3880	6580	9780	12400	1850	3880	6580	9780	12400	
HD 50662	06 55 28.51	+30 09 42.69	G0	0.73	-4.98	3	2720	5510	8720	11500	12800	2720	5510	8720	11500	12800	
HD 50054	06 55 38.33	+62 11 27.89	G5	0.60		81	182	609	2660	8330	12200	182	609	2660	8330	12200	
HD 51929	06 55 53.22	-56 56 32.63	G2VFe-1.4CH-0.7	0.58	-4.78	3	1120	2460	4420	7770	11800	1120	2460	4420	7770	11800	
HD 52063	06 56 23.28	-57 34 34.79	G1V	0.61	-4.98	3	2670	5410	8600	11500	12800	2670	5410	8600	11500	12800	
HD 51219	06 56 34.19	+01 09 43.50	G8V	0.69	-4.97	3	2580	5240	8400	11300	12700	2580	5240	8400	11300	12700	
CCDM J06569-2842AB	06 56 55.04	-28 41 48.17	G1V	0.63	-4.59	3	353	861	1750	4250	9930	353	861	1750	4250	9930	
HD 52298	06 57 45.44	-52 38 54.48	F8VFe-1CH-0.5	0.48	-4.57	3	312	771	1590	3980	9700	312	771	1590	3980	9700	
HD 51419	06 58 11.75	+22 28 33.18	G5VFe-1	0.62	-4.79	3	1180	2570	4600	7940	11900	1180	2570	4600	7940	11900	
HD 51046	06 58 37.73	+51 52 1.95	G0	0.68	-4.87	3	1740	3680	6280	9490	12300	1740	3680	6280	9490	12300	
HD 51754	06 58 38.54	-00 28 49.70	G2V	0.56	-4.79	3	1170	2550	4580	7920	11900	1170	2550	4580	7920	11900	
* 39 Gem	06 58 47.41	+26 04 51.89	F7V	0.51	-4.98	3	2700	5460	8660	11500	12800	2700	5460	8660	11500	12800	
HD 51813	06 58 59.06	+05 32 6.55	G	0.62	-4.60	3	383	926	1860	4440	10100	383	926	1860	4440	10100	
HD 52217	06 59 13.59	-27 07 40.21	G8V	0.82	-4.83	3	1420	3050	5350	8670	12100	1420	3050	5350	8670	12100	
HD 53143	06 59 59.66	-61 20 10.25	G9V	0.79	-4.53	3	245	622	1310	3490	9240	245	622	1310	3490	9240	
HD 52265	07 00 18.04	-05 22 1.78	G0V	0.57	-4.94	3	2390	4890	7970	11100	12700	2390	4890	7970	11100	12700	
HD 52491	07 00 2.75	-31 13 41.10	G9V	0.74	-4.75	3	923	2050	3780	7060	11600	923	2050	3780	7060	11600	
HD 52698	07 01 13.72	-25 56 55.47	K1V	0.88	-4.66	3	544	1270	2470	5370	10700	544	1270	2470	5370	10700	
HD 52456	07 01 35.56	+06 55 36.63	K2V	0.86	-4.69	3	675	1540	2940	6020	11100	675	1540	2940	6020	11100	
HD 52897	07 01 48.29	-27 42 7.72	G8V	0.50	-4.66	3	568	1320	2560	5500	10800	568	1320	2560	5500	10800	
HD 52711	07 03 30.46	+29 20 13.50	G0V	0.60	-4.88	3	1830	3850	6530	9740	12400	1830	3850	6530	9740	12400	
HD 53705	07 03 57.32	-43 36 28.92	G1.5V	0.62	-4.87	3	1760	3720	6340	9550	12300	1760	3720	6340	9550	12300	
HD 51067	07 04 3.93	+75 13 39.11	G0	0.57	-4.66	78	3.4	552	1290	2500	5410	10700	222	853	3540	9140	12400
HD 51067B	07 04 5.68	+75 13 49.93	G5	0.75	-4.52	3	220	565	1210	3290	9030	220	565	1210	3290	9030	
HD 53665	07 05 52.77	-01 01 13.68	F6V	0.52	-4.92	3	2140	4420	7340	10500	12500	2140	4420	7340	10500	12500	
HD 53532	07 06 16.80	+22 41 0.55	G0V	0.70	-4.40	3	95	273	641	2120	7490	95	273	641	2120	7490	
HD 53553	07 06 37.05	+41 10 42.17	G5	0.74		163	4	69	154	321	1120	4	69	154	321	1120	
V361 Pup	07 07 53.05	-34 50 0.23	G0V	0.61	-4.04	3	2	14	80	588	3720	2	14	80	588	3720	
HD 55137	07 11 17.78	-12 02 28.89	G3V	0.67	-4.87	3	1710	3620	6200	9420	12300	1710	3620	6200	9420	12300	
HD 55720	07 11 31.67	-49 25 27.13	G8V	0.70	-4.90	3	2000	4170	7000	10200	12500	2000	4170	7000	10200	12500	
HD 55696	07 12 14.97	-38 10 28.34	G0V	0.60	-4.86	3	1650	3500	6020	9260	12300	1650	3500	6020	9260	12300	

Table 2 continued

Table 2 (continued)

HD 56413	07 12 57.93	-61 36 47.44	G5V	0.75	-4.91	3	2080	4320	7200	10400	12500	2080	4320	7200	10400	12500						
HD 54943	07 14 54.10	+62 08 12.18	G0	0.68		4						47	170	392	1920	8520						
HD 56662	07 15 29.11	-48 13 48.02	G0V	0.60	-4.86	3	1610	3420	5910	9160	12200	1610	3420	5910	9160	12200						
HD 55575	07 15 50.14	+47 14 23.88	F9V	0.58	-4.87	3	1760	3710	6340	9550	12300	1760	3710	6340	9550	12300						
HD 56274	07 15 50.80	-13 02 58.13	G7VFe-1.5CH-1.3	0.60	-4.80	3	1250	2700	4810	8160	11900	1250	2700	4810	8160	11900						
HD 56647	07 15 54.43	+43 33 42.69	G5	0.74	-4.92	3	2170	4490	7430	10600	12500	2170	4490	7430	10600	12500						
HD 56451	07 15 55.61	-27 26 54.41	G1V	0.59	-4.93	3	2240	4620	7610	10800	12600	2240	4620	7610	10800	12600						
HD 56202	07 16 18.55	+05 04 33.94	G5	0.64	-4.39	3	85	246	588	2000	7290	85	246	588	2000	7290						
HD 56303	07 16 36.43	+01 52 43.56	G2V	0.61	-4.91	3	2050	4260	7120	10300	12500	2050	4260	7120	10300	12500						
HD 56124	07 17 9.53	+33 05 31.40	G0	0.63	-4.78	3	1080	2360	4280	7610	11800	1080	2360	4280	7610	11800						
HD 57334	07 18 12.32	-51 03 1.68	F8/G0V	0.56	-4.82	3	1320	2860	5050	8390	12000	1320	2860	5050	8390	12000						
HD 57555	07 18 27.13	-57 21 6.77	G5V	0.66	-4.20	3	14	58	185	957	5030	14	58	185	957	5030						
HD 57553	07 18 58.79	-52 32 23.13	F5V	0.51	-4.76	3	971	2150	3940	7240	11600	971	2150	3940	7240	11600						
HD 57006	07 19 47.65	+07 08 34.61	F8IV	0.52	-4.56	3	299	742	1530	3880	9620	299	742	1530	3880	9620						
HD 56168	07 21 6.73	+67 39 42.61	K2.5V	0.89		16						321	467	701	1020	1380						
HD 58192	07 23 53.82	-17 24 48.37	F7V	0.49	-4.44	3	121	334	764	2390	7900	121	334	764	2390	7900						
HD 58556	07 25 57.22	-02 14 54.48	G1V	0.57	-4.67	3	573	1330	2570	5520	10800	573	1330	2570	5520	10800						
HD 59100	07 26 57.63	-34 18 55.89	G1.5V	0.63	-4.90	3	2020	4200	7080	10200	12500	2020	4200	7080	10200	12500						
HD 59099	07 26 58.67	-34 18 43.63	F6V	0.49	-4.63	3	475	1120	2210	4990	10500	475	1120	2210	4990	10500						
HD 58781	07 27 50.78	+19 02 41.26	G5	0.73	-4.39	3	2760	5580	8800	11600	12800	2760	5580	8800	11600	12800						
HD 59438	07 29 21.86	-14 59 55.16	F8VFe-1.3CH-0.8	0.48	-4.49	3	181	476	1040	2960	8660	181	476	1040	2960	8660						
HD 59380	07 29 25.66	-07 33 4.45	F6V	0.49	-4.57	3	324	798	1630	4060	9770	324	798	1630	4060	9770						
HD 59058	07 29 57.81	+38 26 17.61	G5V	0.74		10						874	2400	6290	10700	12700						
HD 59711	07 30 40.01	-15 59 40.51	G2V	0.64	-5.00	3	2840	5720	8970	11600	12800	2840	5720	8970	11600	12800						
HD 59667	07 30 42.51	-37 20 21.70	G3V	0.64	-4.34	3	54	169	428	1620	6590	54	169	428	1620	6590						
HD 59688	07 31 13.51	+02 10 12.88	G6V	0.63	-4.91	3	2070	4290	7160	10300	12500	2070	4290	7160	10300	12500						
HD 59984	07 32 5.76	-08 52 52.77	G0VFe-1.6CH-0.5	0.53	-4.75	3	929	2070	3800	7090	11600	929	2070	3800	7090	11600						
HD 59747	07 33 0.58	+37 01 47.45	G5V	0.86	-4.38	3	77	227	549	1910	7140	77	227	549	1910	7140						
HD 60491	07 34 26.17	-06 53 48.03	K1V	0.90	-4.43	3	119	330	755	2370	7870	119	330	755	2370	7870						
HD 61033	07 34 28.03	-52 58 5.37	G7V(e)	0.72	-4.36	3	64	194	479	1750	6840	64	194	479	1750	6840						
HD 60532	07 34 3.18	-22 17 45.84	F6IV-V	0.54	-4.57	3	308	762	1570	3950	9680	308	762	1570	3950	9680						
HD 61475	07 34 44.39	-66 38 36.62	K1IV	0.85	-4.63	3	459	1090	2160	4900	10400	459	1090	2160	4900	10400						
HD 61005	07 35 47.46	-32 12 14.04	G8Vk	0.73	-4.26	3	27	95	269	1200	5690	27	95	269	1200	5690						
HD 60779	07 36 1.43	-03 09 6.38	G1V	0.56	-4.93	3	2240	4610	7600	10800	12600	2240	4610	7600	10800	12600						
HD 60521	07 36 14.04	+32 50 9.85	G0	0.63	-4.75	3	944	2100	3850	7140	11600	944	2100	3850	7140	11600						
HD 60803	07 36 34.71	+05 51 43.82	G0V	0.60	-4.71	3	744	1690	3180	6330	11200	744	1690	3180	6330	11200						
HD 60737	07 38 16.44	+47 44 55.22	G0	0.62	-4.26	99	3, 4	27	95	269	1200	5690	103	307	1450	6690	11800	47	127	236	497	1550
HD 61013	07 38 24.08	+31 19 43.18	K0	1.09		8						251	380	505	644	784	251	380	505	644	784	
HD 61986	07 40 54.38	-26 21 48.63	G5V	0.63	-4.78	3	1110	2440	4400	7740	11800	1110	2440	4400	7740	11800						
HD 62061	07 40 7.95	-44 25 49.83	G2V	0.58	-4.89	3	1910	4000	6750	9950	12400	1910	4000	6750	9950	12400						
HD 62850	07 42 36.06	-59 17 50.74	G3V	0.64	-4.33	3	50	159	406	1570	6480	50	159	406	1570	6480						
HD 62848	07 43 21.48	-52 09 50.51	F9V	0.55	-4.40	3	93	267	628	2100	7450	93	267	628	2100	7450						
HD 63008	07 44 12.51	-50 27 24.21	F9VFe-0.5	0.53	-4.40	3	89	258	612	2060	7390	89	258	612	2060	7390						
CD-50 2948	07 44 16.48	-50 27 59.81	G5V	0.70	-4.56	3	297	738	1530	3870	9610	297	738	1530	3870	9610						
HD 62549	07 44 19.75	-05 03 17.80	G2/3V	0.61	-4.96	3	2500	5100	8240	11200	12700	2500	5100	8240	11200	12700						
HD 62911	07 44 47.10	-33 43 54.32	K0V	0.79	-4.47	3	163	433	955	2800	8460	163	433	955	2800	8460						
* 171 Pup	07 45 34.92	-34 10 21.28	F9V	0.59	-4.80	3	1250	2700	4810	8160	11900	1250	2700	4810	8160	11900						
HD 63581	07 46 14.84	-59 48 50.63	K0IV-V(k)	0.78	-4.43	3	116	323	740	2340	7820	116	323	740	2340	7820						
HD 63608	07 46 16.96	-59 48 34.19	K0IV-V(k)	0.79	-4.45	3	139	377	847	2570	8160	139	377	847	2570	8160						

Table 2 continued

Table 2 (continued)

HD 62857	07 46 58.51	+26 01 29.18	G5IV	0.69	-4.49	3	178	467	1020	2930	8620	178	467	1020	2930	8620
HD 62694	07 47 19.83	+44 39 26.47	G5	0.69	-5.00	3	2850	5730	8980	11700	12800	2850	5730	8980	11700	12800
BM Lyn	07 47 20.82	+47 20 17.65	K0	1.09		48						56	172	286	358	491
HD 61994	07 47 30.54	+70 12 24.20	G6V	0.71	-4.59	3	363	883	1790	4320	9990	363	883	1790	4320	9990
HD 63765	07 47 49.72	-54 15 50.92	G9V	0.74	-4.91	3	2100	4350	7240	10400	12500	2100	4350	7240	10400	12500
* 5 Pup	07 47 56.72	-12 11 33.74	F5.5V	0.48	-4.60	3	394	950	1910	4510	10100	394	950	1910	4510	10100
HD 64184	07 49 26.65	-59 22 51.03	G3V	0.68	-4.79	3	1170	2540	4560	7910	11900	1170	2540	4560	7910	11900
HD 56322	07 49 53.44	+86 21 55.01	G0	0.59	-4.41	84	3,4	103	292	679	2210	170	582	2660	8370	12200
HD 63433	07 49 55.06	+27 21 47.46	G5IV	0.68	-4.36	3	65	199	490	1770	6890	65	199	490	1770	6890
BD+33 1603	07 51 13.10	+32 58 47.63	G0	0.68	-4.62	3	422	1010	2010	4680	10300	422	1010	2010	4680	10300
* 9 Pup	07 51 46.30	-13 53 52.92	G0V	0.60	-4.84	3	1470	3150	5500	8800	12100	1470	3150	5500	8800	12100
HD 64114	07 51 55.89	-11 01 58.71	G7V	0.72	-4.79	3	1170	2550	4580	7920	11900	1170	2550	4580	7920	11900
* 212 Pup	07 52 15.66	-34 42 19.59	F5VFe-0.5	0.47	-4.30	3	38	127	338	1390	6100	38	127	338	1390	6100
HD 64090	07 53 33.12	+30 36 18.26	K0.V-Fe-3	0.62	-4.89	3	1900	3980	6720	9920	12400	1900	3980	6720	9920	12400
HD 65216	07 53 41.32	-63 38 50.35	G5V	0.67	-4.87	3	1740	3680	6280	9500	12300	1740	3680	6280	9500	12300
HD 64606	07 54 34.18	-01 24 44.21	K0V	0.74	-4.93	3	2230	4610	7600	10800	12600	2230	4610	7600	10800	12600
HD 64324	07 54 48.49	+34 37 11.23	G0	0.66	-4.54	3	255	644	1350	3560	9320	255	644	1350	3560	9320
HD 64942	07 55 58.23	-09 47 49.93	G3/5V	0.67	-4.41	3	95	273	641	2120	7490	95	273	641	2120	7490
HD 62613	07 56 17.23	+80 15 55.95	G9	0.72	-4.85	3	1560	3320	5750	9020	12200	1560	3320	5750	9020	12200
HD 65080	07 57 3.66	+01 30 47.69	G0V	0.64	-4.73	3	854	1910	3550	6790	11400	854	1910	3550	6790	11400
HD 65907	07 57 46.91	-60 18 11.05	F9.5V	0.57	-4.89	3	1940	4040	6810	10000	12400	1940	4040	6810	10000	12400
HD 65721	07 58 36.89	-34 56 41.09	G9V	0.74	-4.76	3	972	2150	3940	7250	11600	972	2150	3940	7250	11600
HD 66039	07 59 58.78	-41 42 14.74	G2V	0.58	-4.64	3	488	1150	2260	5070	10500	488	1150	2260	5070	10500
HD 65368	08 00 18.88	+42 58 27.06	G0	0.58	-4.57	3	323	794	1630	4050	9760	323	794	1630	4050	9760
HD 65583	08 00 32.13	+29 12 44.48	K0V-Fe-1.3	0.71	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700
HD 66011	08 01 50.73	+08 54 50.37	G0IV	0.57	-4.70	3	690	1580	2990	6090	11100	690	1580	2990	6090	11100
HD 66653	08 02 26.99	-46 20 10.70	G2V	0.66	-4.72	3	783	1770	3310	6500	11300	783	1770	3310	6500	11300
HD 67199	08 02 31.19	-66 01 15.38	K2Vrk:	0.87	-4.81	3	1290	2800	4960	8300	12000	1290	2800	4960	8300	12000
HD 66573	08 04 29.84	+09 16 4.37	G5VFe-1.3CH-1	0.63	-4.76	3	1010	2220	4050	7370	11700	1010	2220	4050	7370	11700
HD 66485	08 04 42.75	+24 19 48.87	G5	0.73	-4.79	3	1130	2480	4460	7800	11800	1130	2480	4460	7800	11800
HD 67458	08 07 0.52	-29 24 10.58	G0V	0.60	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600
* mn.02 Cnc	08 07 45.86	+21 34 54.53	G1IVb	0.64	-4.80	3	1220	2640	4720	8070	11900	1220	2640	4720	8070	11900
HD 66171	08 08 10.54	+71 55 27.96	G2V	0.62	-4.84	3	1500	3200	5570	8860	12200	1500	3200	5570	8860	12200
* 12 Cnc	08 08 42.45	+13 38 27.33	F3V	0.47	-4.50	3	189	493	1070	3020	8730	189	493	1070	3020	8730
HD 67346	08 08 8.66	+19 12 57.39	F8	0.62	-4.94	3	2380	4880	7960	11100	12700	2380	4880	7960	11100	12700
BD+30 1651B	08 09 23.49	+30 20 34.13	G0	0.57	-4.50	3	200	518	1120	3120	8840	200	518	1120	3120	8840
HD 66751	08 10 20.47	+69 43 30.29	F8V	0.57	-4.76	3	982	2170	3970	7280	11600	982	2170	3970	7280	11600
* 18 Pup	08 10 39.83	-13 47 57.14	F6.5V	0.49	-4.80	3	1220	2640	4720	8070	11900	1220	2640	4720	8070	11900
HD 68475	08 10 52.59	-42 48 41.08	K2V	0.89	-4.83	3	1410	3030	5310	8630	12100	1410	3030	5310	8630	12100
HD 68017	08 11 38.65	+32 27 25.78	G3V	0.68	-4.88	3	1830	3830	6510	9710	12400	1830	3830	6510	9710	12400
HD 68168	08 11 49.19	+16 31 25.91	G0	0.67	-4.96	3	2540	5170	8320	11300	12700	2540	5170	8320	11300	12700
HD 68607	08 11 9.68	-46 17 50.62	K2V	0.86	-4.82	3	1360	2940	5180	8510	12100	1360	2940	5180	8510	12100
* zet01 Cnc A	08 12 12.72	+17 38 51.52		0.54	-4.88	3	1790	3760	6400	9610	12300	1790	3760	6400	9610	12300
HD 68785	08 12 15.97	-40 30 10.01	G3V	0.62	-4.79	3	1130	2470	4450	7790	11800	1130	2470	4450	7790	11800
HD 68978	08 13 34.50	-31 44 7.38	G0.5V	0.62	-4.89	3	1940	4050	6810	10000	12400	1940	4050	6810	10000	12400
HD 69655	08 15 25.21	-52 03 37.07	G1V	0.58	-4.93	3	2250	4640	7650	10800	12600	2250	4640	7650	10800	12600
HD 69056	08 15 33.20	+11 25 51.41	G6V	0.73	-4.97	3	2620	5320	8500	11400	12800	2620	5320	8500	11400	12800
HD 69076	08 15 7.72	-06 55 8.09	K0V	0.71	-4.81	3	1260	2720	4840	8190	12000	1260	2720	4840	8190	12000
HD 69027	08 16 54.84	+43 16 14.21	G0	0.75	-4.63	3	462	1100	2170	4920	10400	462	1100	2170	4920	10400

Table 2 continued



Table 2 (continued)

HD 69611	08 17 29.35	-03 59 22.62	G0V	0.58	-4.96	3	2490	5080	8210	11200	12700	2490	5080	8210	11200	12700						
HD 68988	08 18 22.17	+61 27 38.60	G0	0.65	-4.95	3	2440	4990	8090	11200	12700	2440	4990	8090	11200	12700						
HD 70110	08 20 13.00	-00 54 33.53	G0V	0.60	-4.97	3	2600	5290	8460	11400	12700	2600	5290	8460	11400	12700						
* chi Cnc	08 20 3.86	+27 13 3.75	F6V	0.49	-4.78	3	1080	2380	4300	7640	11800	1080	2380	4300	7640	11800						
HD 70642	08 21 28.14	-39 42 19.48	G6VCN+0.5	0.69	-4.85	3	1580	3350	5800	9060	12200	1580	3350	5800	9060	12200						
V478 Hya	08 22 49.95	+01 51 33.55	G1/2V	0.59	-4.15	166	2, 3	8	38	139	803	4570	21	131	1700	7650	12100	8	27	66	169	777
HD 70889	08 23 31.81	-27 49 20.48	F9.5V	0.60	-4.84	3	1490	3190	5560	8850	12200	1490	3190	5560	8850	12200						
HD 70516	08 24 15.66	+44 56 58.96	G2V	0.63	-4.27	3	29	101	280	1230	5760	29	101	280	1230	5760						
* 1 Hya	08 24 35.01	-03 45 4.47	F6V	0.47	-4.27	3	28	99	279	1230	5750	28	99	279	1230	5750						
HD 70937	08 24 36.44	-04 43 1.20	F5V	0.46	-4.54	3	252	636	1340	3530	9290	252	636	1340	3530	9290						
HD 70843	08 24 45.40	+17 10 54.31	F5	0.54	-4.82	3	1380	2970	5230	8560	12100	1380	2970	5230	8560	12100						
HD 71386	08 25 4.20	-49 09 35.94	G9V	0.78	-4.44	3	128	350	795	2460	8000	128	350	795	2460	8000						
HD 71334	08 25 49.52	-29 55 50.13	G2.5V	0.64	-4.99	3	2780	5600	8830	11600	12800	2780	5600	8830	11600	12800						
HD 71148	08 27 36.78	+45 39 10.76	G1V	0.63	-4.90	3	1950	4060	6840	10000	12400	1950	4060	6840	10000	12400						
HD 71835	08 28 11.98	-36 43 22.75	G9V+	0.77	-4.95	3	2430	4980	8080	11100	12700	2430	4980	8080	11100	12700						
HD 71881	08 31 55.04	+50 37 0.09	G1V	0.63	-4.95	3	2430	4970	8070	11100	12700	2430	4970	8070	11100	12700						
HD 73744	08 32 15.58	-76 55 43.69	G5VFe-1.3CH-0.9	0.61	-4.82	3	1320	2860	5050	8390	12000	1320	2860	5050	8390	12000						
HD 71067	08 32 32.60	+75 44 19.83	G5	0.61	-4.49	3	182	478	1040	2970	8670	182	478	1040	2970	8670						
HD 72687	08 33 15.38	-29 57 23.72	G5V	0.66	-4.31	3	41	134	354	1430	6200	41	134	354	1430	6200						
HD 72528	08 33 17.60	-05 19 40.52	F8/G0V	0.53	-4.88	3	1850	3880	6570	9770	12400	1850	3880	6570	9770	12400						
HD 72659	08 34 3.19	-01 34 5.58	G2V	0.61	-4.95	3	2420	4960	8060	11100	12700	2420	4960	8060	11100	12700						
HD 72760	08 34 31.65	-00 43 33.83	K0V	0.79	-4.37	3	71	213	521	1850	7020	71	213	521	1850	7020						
HD 72780	08 35 4.20	+11 17 1.38	F8	0.51	-4.77	3	1030	2280	4140	7460	11700	1030	2280	4140	7460	11700						
HD 72946	08 35 51.27	+06 37 21.97	G8-V	0.69	-4.48	3	166	440	968	2820	8490	166	440	968	2820	8490						
CS Pyx	08 36 23.02	-30 02 15.44	G8IV-VFe+0.5	0.78	-4.53	3	246	622	1310	3490	9240	246	622	1310	3490	9240						
V401 Hya	08 37 50.29	-06 48 24.78	G8/K0(IV)	0.66	-4.52	67	2, 3	218	561	1200	3270	9020	191	475	1340	5290	11300	249	449	768	1380	3250
HD 73344	08 38 45.52	+23 41 9.26	F6V	0.55	-4.61	3	413	991	1980	4630	10200	413	991	1980	4630	10200						
HD 73226	08 38 8.51	+26 02 56.32	G5	0.63	-4.91	3	2060	4280	7140	10300	12500	2060	4280	7140	10300	12500						
HD 73512	08 39 0.25	+06 57 19.64	K0	0.90	-4.94	3	2320	4760	7800	10900	12600	2320	4760	7800	10900	12600						
pl.01 UMa	08 39 11.70	+65 01 15.27	G0.5V	0.62	-4.35	127	1, 2, 3	61	188	467	1720	6780	50	183	1150	6340	11800	58	130	245	521	1670
HD 73668	08 39 43.80	+05 45 51.27	G1V	0.60	-4.77	3	1050	2310	4200	7530	11700	1050	2310	4200	7530	11700						
BD+06 2008	08 39 44.68	+05 46 13.93	G9V	0.81	-4.62	3	441	1050	2090	4800	10300	441	1050	2090	4800	10300						
HD 74698	08 40 17.52	-71 52 37.69	G5V	0.67	-4.96	3	2560	5210	8370	11300	12700	2560	5210	8370	11300	12700						
HD 73636	08 41 14.58	+47 28 50.14	G0	0.60	-4.76	3	982	2170	3980	7280	11600	982	2170	3980	7280	11600						
HD 74156	08 42 25.12	+04 34 41.15	G1V	0.58	-4.96	3	2560	5210	8370	11300	12700	2560	5210	8370	11300	12700						
HD 73933	08 42 56.20	+48 11 33.18	G0	0.57	-4.56	3	304	753	1550	3920	9650	304	753	1550	3920	9650						
HD 74497	08 42 6.60	-52 45 23.02	G3V	0.66	-4.77	3	1020	2260	4110	7430	11700	1020	2260	4110	7430	11700						
HD 74957	08 44 24.05	-57 46 8.81	G2V	0.59	-4.81	3	1280	2770	4910	8260	12000	1280	2770	4910	8260	12000						
HD 75070	08 44 25.38	-62 31 29.61	G0V	0.62	-4.88	3	1810	3810	6470	9680	12400	1810	3810	6470	9680	12400						
HD 74855	08 44 42.23	-48 40 17.53	G9V	0.76	-4.69	3	648	1490	2840	5890	11000	648	1490	2840	5890	11000						
HD 74842	08 44 45.00	-42 38 4.06	G8V	0.74	-4.64	3	497	1170	2300	5120	10600	497	1170	2300	5120	10600						
HD 74868	08 44 50.76	-44 32 33.35	F9III-IV	0.57	-4.83	3	1420	3040	5330	8650	12100	1420	3040	5330	8650	12100						
BD+17 1936	08 47 21.19	+17 16 48.64	G0	0.66	-4.93	3	2300	4730	7760	10900	12600	2300	4730	7760	10900	12600						
HD 75289	08 47 40.39	-41 44 12.46	F9VFe+0.3	0.58	-4.91	3	2060	4280	7150	10300	12500	2060	4280	7150	10300	12500						
HD 74777	08 47 59.82	+50 16 38.58	G0	0.66	-4.99	3	2760	5570	8800	11600	12800	2760	5570	8800	11600	12800						
HD 75302	08 49 12.53	+03 29 5.12	G5V	0.69	-4.62	3	432	1030	2050	4740	10300	432	1030	2050	4740	10300						
HD 75393	08 49 15.34	-15 33 52.97	F7V	0.54	-4.32	3	45	145	377	1490	6330	45	145	377	1490	6330						
HD 75519	08 49 5.69	-39 57 15.80	G8V	0.65	-4.33	3	51	161	412	1580	6510	51	161	412	1580	6510						
HD 75332	08 50 32.22	+33 17 6.20	F7Vs	0.53	-4.44	125	1, 2, 3	127	349	792	2450	7990	52	402	3310	9220	12400	73	211	514	1240	4270

Table 2 continued

Table 2 (continued)

* 54 Cnc	08 51 1.46	+15 21 2.37	G1V	0.67	-4.92	3	2160	4460	7400	10600	12500	2160	4460	7400	10600	12500
HD 75767	08 52 16.39	+08 03 46.50	G1.5V	0.61	-4.54	3	258	650	1360	3580	9330	258	650	1360	3580	9330
* rho01 Cnc b	08 52 35.81	+28 19 50.95		0.87	-4.12	3	6	29	118	731	4350	6	29	118	731	4350
HD 75898	08 53 50.81	+33 03 24.52	G0	0.63	-4.97	3	2650	5380	8570	11400	12800	2650	5380	8570	11400	12800
HD 75876	08 53 59.36	+62 35 1.62	G0	0.59	-4.93	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600
HD 76151	08 54 17.95	-05 26 4.05	G2V	0.66	-4.69	19	2,3	665	1520	2900	5070	11100	1020	2810	6720	10900
HD 76653	08 55 11.78	-54 57 56.76	F6V	0.48	-4.38	3	77	229	552	1920	7150	77	229	552	1920	7150
HD 77425	08 55 50.19	-76 14 55.29	G2V	0.63	-4.92	3	2150	4440	7370	10500	12500	2150	4440	7370	10500	12500
HD 76218	08 55 55.68	+36 11 46.28	G5V	0.77	-4.47	3	154	412	915	2710	8350	154	412	915	2710	8350
HD 76078	08 56 13.29	+53 03 31.34	G5	0.63	-4.88	3	1830	3830	6510	9710	12400	1830	3830	6510	9710	12400
HD 76668	08 56 19.84	-37 07 20.90	G0V	0.62	-4.89	3	1900	3970	6700	9900	12400	1900	3970	6700	9900	12400
HD 76740	08 57 4.07	-29 50 45.65	F5V	0.49	-4.26	3	25	90	257	1170	5600	25	90	257	1170	5600
* 61 Cnc	08 57 58.67	+30 14 1.77	F4V	0.45	-4.88	3	1770	3730	6350	9560	12300	1770	3730	6350	9560	12300
HD 76932	08 58 43.93	-16 07 57.81	G2VFe-1.8CH-1	0.52	-4.70	3	712	1620	3070	6190	11200	712	1620	3070	6190	11200
HD 76752	08 58 49.87	+25 24 17.87	G2V	0.68	-4.93	3	2280	4690	7710	10900	12600	2280	4690	7710	10900	12600
HD 76780	08 58 55.73	+21 09 58.64	G5	0.69	-4.81	3	1320	2840	5030	8370	12000	1320	2840	5030	8370	12000
HD 76617	08 58 57.99	+44 25 30.46	G2V	0.60	-4.75	3	919	2050	3770	7050	11500	919	2050	3770	7050	11500
HD 77084	08 59 39.91	-19 12 28.98	F5V	0.46	-4.53	3	242	614	1300	3460	9210	242	614	1300	3460	9210
HD 77417	09 01 5.47	-37 46 17.79	G8IV	0.77	-4.96	3	2490	5090	8220	11200	12700	2490	5090	8220	11200	12700
HD 77407	09 03 27.08	+37 50 27.50	G0V+M3V-M6V	0.61	-4.26	3	27	96	272	1210	5710	27	96	272	1210	5710
HD 76839	09 03 29.99	+76 23 51.65	G0	0.69	-4.98	3	2700	5450	8660	11500	12800	2700	5450	8660	11500	12800
HD 77803	09 04 57.58	+11 34 20.94	G5	0.66	-4.88	3	1840	3850	6540	9740	12400	1840	3850	6540	9740	12400
HD 76974	09 05 21.63	+74 41 48.27	G0	0.73	-4.50	3	201	522	1120	3130	8860	201	522	1120	3130	8860
HD 78429	09 06 38.83	-43 29 31.12	G2V	0.66	-4.97	3	2630	5340	8520	11400	12800	2630	5340	8520	11400	12800
HD 78351	09 06 43.82	-33 34 6.51	G9Vk:	0.77	-4.65	3	531	1240	2420	5300	10700	531	1240	2420	5300	10700
HD 78451	09 07 18.07	+22 52 21.50	K0	0.89		107	44	136	252	309	400	44	136	252	309	400
HD 78747	09 07 56.58	-50 28 56.81	G5VFe-1.6CH-1	0.57	-4.93	3	2300	4720	7750	10900	12600	2300	4720	7750	10900	12600
HD 78838	09 08 46.97	-05 06 57.91	G5/6	0.66	-4.43	3	112	313	722	2300	7760	112	313	722	2300	7760
* 75 Cnc	09 08 47.33	+26 37 44.80	G5IV-V	0.65	-4.64	3	483	1140	2240	5040	10500	483	1140	2240	5040	10500
HD 78366	09 08 51.07	+33 52 55.99	G0IV-V	0.61	-4.54	3	259	653	1370	3590	9340	259	653	1370	3590	9340
HD 78536	09 08 53.93	+03 57 33.09	G3V	0.65	-4.61	3	416	997	1990	4650	10200	416	997	1990	4650	10200
* sig02 UMa	09 10 23.55	+67 08 2.46	F7V	0.49	-4.86	3	1650	3500	6020	9260	12300	1650	3500	6020	9260	12300
* pi.01 Cnc	09 12 17.55	+14 59 45.78	G9V	0.73	-4.71	3	745	1690	3180	6330	11200	745	1690	3180	6330	11200
HD 79601	09 13 44.63	-42 18 37.47	G2V	0.58	-4.78	3	1080	2370	4290	7630	11800	1080	2370	4290	7630	11800
HD 79282	09 14 14.56	+33 49 0.90	G5	0.65	-4.77	3	1020	2240	4080	7400	11700	1020	2240	4080	7400	11700
HD 80133	09 17 55.38	-03 23 14.10	K1/2V	0.87	-4.46	3	141	382	858	2600	8190	141	382	858	2600	8190
HD 81485	09 19 24.66	-77 38 36.34	G7V+K0IVe	0.72	-4.54	3	255	642	1350	3560	9310	255	642	1350	3560	9310
HD 80842	09 19 44.00	-41 28 5.81	G2V	0.63	-4.60	3	385	930	1870	4460	10100	385	930	1870	4460	10100
HD 80883	09 19 44.13	-59 28 39.79	K0.5V	0.82	-4.71	3	747	1700	3190	6350	11200	747	1700	3190	6350	11200
HD 80855	09 21 3.01	+51 18 21.63	G5	0.72	-4.63	3	471	1120	2200	4970	10500	471	1120	2200	4970	10500
HD 80846	09 22 17.72	+06 17 51.35	G0	0.58	-4.48	3	175	462	1010	2910	8600	175	462	1010	2910	8600
HD 81221	09 22 19.15	-54 27 54.79	G3V	0.65	-4.74	3	867	1940	3600	6850	11500	867	1940	3600	6850	11500
HD 81044	09 22 20.51	-32 08 54.51	K0Vk:	0.80	-4.76	3	992	2190	4010	7320	11700	992	2190	4010	7320	11700
HD 81238	09 22 28.38	-53 44 12.45	F5V	0.51	-4.84	3	1500	3210	5590	8880	12200	1500	3210	5590	8880	12200
HD 81133	09 22 49.61	-35 31 23.55	F8.5V	0.56	-4.72	3	770	1740	3270	6450	11300	770	1740	3270	6450	11300
HD 81110	09 22 59.67	-27 10 20.03	G3V	0.72	-4.84	3	1520	3240	5630	8910	12200	1520	3240	5630	8910	12200
HD 81659	09 26 42.83	-14 29 26.68	G6/8V	0.70	-4.66	3	549	1280	2490	5400	10700	549	1280	2490	5400	10700
HD 82082	09 27 31.64	-58 05 40.43	G2V	0.60	-4.85	3	1560	3310	5740	9010	12200	1560	3310	5740	9010	12200
HD 81809	09 27 46.78	-06 04 16.28	G1.5IV-V	0.63	-4.86	3	1630	3450	5950	9190	12300	1630	3450	5950	9190	12300

Table 2 continued

Table 2 (continued)

HD 82282	09 27 57.59	-06 06 8.28	K0V	0.88	-4.54	3	256	645	1350	3560	9320	256	645	1350	3560	9320	
* ome Leo	09 28 27.40	+09 03 24.43	G1V	0.60	-4.97	3	2620	5320	8510	11400	12800	2620	5320	8510	11400	12800	
HD 82241	09 29 28.57	-44 31 56.48	F8VFe-0.4	0.50	-4.31	3	41	136	357	1440	6220	41	136	357	1440	6220	
* fan01 Hya	09 29 8.94	-02 46 8.21	F5V	0.46	-4.57	3	319	786	1610	4020	9740	319	786	1610	4020	9740	
HD 233641	09 30 36.12	+52 47 23.92	G0	0.55	-4.96	3	2570	5220	8380	11300	12700	2570	5220	8380	11300	12700	
HD 82561	09 31 59.30	-28 13 35.76	G5V	0.71	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800	
LQ Hya	09 32 25.57	-11 11 4.69	K1Vp	0.89	-3.99	246	1,2,3	2	10	72	549	3360	2	10	43	95	225
HD 82443	09 32 43.76	+26 59 18.71	G9V(k)	0.77	-4.22	3	17	66	204	1020	5200	17	66	204	1020	5200	
* tet UMa	09 32 51.43	+51 40 38.28	F7V	0.46	-4.27	3	29	100	280	1230	5760	29	100	280	1230	5760	
HD 82460	09 33 28.74	+46 13 43.26	G0	0.67	-4.76	3	989	2190	4000	7310	11600	989	2190	4000	7310	11600	
HD 82943	09 34 50.74	-12 07 46.36	F9VFe+0.5	0.62	-4.86	3	1680	3560	6110	9330	12300	1680	3560	6110	9330	12300	
* 11 LMi	09 35 39.50	+35 48 36.48	G8Va	0.77	-4.65	3	533	1250	2430	5310	10700	533	1250	2430	5310	10700	
HD 237822	09 36 49.52	+57 54 41.01	G3V	0.63	-4.74	3	876	1960	3620	6880	11500	876	1960	3620	6880	11500	
HD 82905	09 36 8.90	+42 58 0.11	G5	0.65	-4.97	3	2610	5300	8480	11400	12800	2610	5300	8480	11400	12800	
HD 83443	09 37 11.83	-43 16 19.93	K0/IV+G(III)	0.81	-4.87	3	1690	3580	6130	9360	12300	1690	3580	6130	9360	12300	
* 9 Leo	09 37 49.89	+24 40 13.00	G0III	0.56	-4.41	3	100	284	663	2170	7570	100	284	663	2170	7570	
HD 83517	09 37 55.67	-36 55 33.47	G3/5(V)	0.66	-4.88	3	1800	3790	6440	9650	12400	1800	3790	6440	9650	12400	
HD 84089	09 41 34.54	-38 29 47.99	G2V	0.59	-4.85	3	1600	3400	5880	9130	12200	1600	3400	5880	9130	12200	
HD 84117	09 42 14.42	-23 54 56.05	F9V	0.53	-4.64	3	493	1160	2280	5090	10500	493	1160	2280	5090	10500	
HD 84330	09 42 40.84	-55 49 55.23	G1V+G3V	0.62	-4.46	3	151	404	900	2680	8310	151	404	900	2680	8310	
GT Leo	09 42 9.93	+07 35 24.54	K0V	0.88	-4.58	3	341	833	1700	4170	9870	341	833	1700	4170	9870	
HD 84273	09 43 20.28	-29 48 14.43	G5V	0.65	-4.42	3	110	307	710	2280	7720	110	307	710	2280	7720	
HD 84612	09 45 1.85	-49 29 13.76	F8/G2IV/V	0.52	-4.74	3	906	2020	3720	7000	11500	906	2020	3720	7000	11500	
HD 84627	09 45 3.66	-49 29 7.30	F8/G0V	0.53	-4.73	3	814	1830	3420	6630	11400	814	1830	3420	6630	11400	
HD 84742	09 46 13.33	-40 38 8.27	F8/G0V	0.56	-4.84	3	1530	3260	5660	8940	12200	1530	3260	5660	8940	12200	
HD 84703	09 47 4.90	-00 37 8.01	F8/G0V	0.56	-4.89	3	1860	3910	6620	9820	12400	1860	3910	6620	9820	12400	
HD 84991	09 48 0.19	-38 21 51.41	G2V	0.59	-4.79	3	1150	2510	4510	7850	11800	1150	2510	4510	7850	11800	
HD 85228	09 48 46.75	-52 36 56.56	K2VCN+0.5	0.89	-4.93	3	2270	4670	7680	10800	12600	2270	4670	7680	10800	12600	
BD+17 2140	09 49 40.65	+16 22 13.90	G0	0.70	-4.40	3	94	271	637	2110	7480	94	271	637	2110	7480	
* 4 Sex	09 50 30.08	+04 20 37.14	F5V	0.46	-4.35	3	61	188	468	1720	6790	61	188	468	1720	6790	
HD 85380	09 51 21.62	-06 10 54.93	G1V	0.58	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600	
HD 85301	09 52 16.77	+49 11 26.85	G5	0.72	-4.44	3	130	356	805	2480	8030	130	356	805	2480	8030	
HD 85689	09 53 48.41	+14 44 20.37	G0	0.58	-4.78	3	1120	2440	4410	7750	11800	1120	2440	4410	7750	11800	
HD 86226	09 56 29.84	-24 05 57.80	G2V	0.65	-4.88	3	1840	3860	6550	9750	12400	1840	3860	6550	9750	12400	
HD 86171	09 56 38.44	-08 50 4.40	K0V	0.75	-4.97	3	2600	5280	8450	11400	12700	2600	5280	8450	11400	12700	
HD 86081	09 56 5.92	-03 48 30.32	G1V	0.66	-4.92	3	2160	4480	7420	10600	12500	2160	4480	7420	10600	12500	
HD 86264	09 56 57.84	-15 53 42.42	F7V	0.51	-4.63	3	476	1120	2220	5000	10500	476	1120	2220	5000	10500	
HD 86397	09 57 19.66	-35 32 10.10	G8V	0.72	-4.92	3	2180	4500	7450	10600	12500	2180	4500	7450	10600	12500	
* 19 LMi	09 57 41.05	+41 03 20.27	F6V	0.46	-4.77	3	1040	2300	4170	7500	11700	1040	2300	4170	7500	11700	
HD 86652	09 59 7.99	-33 31 1.63	G3V	0.63	-4.95	3	2460	5030	8150	11200	12700	2460	5030	8150	11200	12700	
HD 86680	10 00 39.89	+28 10 25.10	G0V	0.61	-4.90	3	2020	4200	7040	10200	12500	2020	4200	7040	10200	12500	
HD 86819	10 00 5.92	-36 02 35.64	G1V	0.58	-4.88	3	1790	3760	6410	9620	12400	1790	3760	6410	9620	12400	
* 20 LMi	10 01 0.66	+31 55 25.22	G3VaHdell	0.66	-4.99	3	2800	5650	8880	11600	12800	2800	5650	8880	11600	12800	
HD 87320	10 03 37.38	-29 02 36.02	G8V	0.68	-4.88	3	1830	3840	6510	9720	12400	1830	3840	6510	9720	12400	
HD 87359	10 04 26.79	-07 13 6.23	G6V	0.69	-4.83	3	1400	3010	5280	8610	12100	1400	3010	5280	8610	12100	
HD 87141	10 04 36.32	+53 53 30.17	F5V	0.48	-4.73	3	831	1870	3470	6700	11400	831	1870	3470	6700	11400	
V417 Hya	10 04 37.66	-11 43 46.92	K2Vk:	0.89	-4.44	3	125	343	780	2430	7950	125	343	780	2430	7950	
HD 87884	10 08 12.79	+11 59 49.06	K0Ve	0.86	-4.43	3	121	333	761	2390	7890	121	333	761	2390	7890	
HD 87998	10 08 21.38	-19 45 18.78	G0V	0.62	-4.95	3	2440	5000	8110	11200	12700	2440	5000	8110	11200	12700	

Table 2 continued

Table 2 (continued)

HD 87978	10 08 26.58	-11 06 54.74	G6IV	0.69	-4.49	3	188	492	1070	3020	8730	188	492	1070	3020	8730						
HD 88072	10 09 23.43	+02 22 15.90	G3V	0.65	-4.92	3	2180	4510	7460	10600	12500	2180	4510	7460	10600	12500						
HD 88201	10 09 31.77	-32 50 47.99	G0V	0.56	-4.36	3	67	202	496	1790	6910	67	202	496	1790	6910						
HD 88373	10 11 16.79	-09 24 7.14	F5V	0.51	-4.53	3	243	615	1300	3460	9220	243	615	1300	3460	9220						
* 34 Leo	10 11 38.21	+13 21 18.41	F6V	0.46	-4.75	3	930	2070	3810	7090	11600	930	2070	3810	7090	11600						
HD 88371	10 11 48.07	+23 45 18.71	G2V	0.63	-4.91	3	2090	4350	7240	10400	12500	2090	4350	7240	10400	12500						
HD 88429	10 11 9.82	-32 45 13.82	G1V	0.61	-4.96	3	2510	5130	8270	11300	12700	2510	5130	8270	11300	12700						
HD 88656	10 12 52.78	-28 30 48.19	K2V	0.88	-4.47	3	159	425	939	2760	8420	159	425	939	2760	8420						
HD 88746	10 12 55.91	-47 28 31.18	G8V	0.80	-4.71	3	725	1650	3110	6250	11200	725	1650	3110	6250	11200						
HD 88742	10 13 24.73	-33 01 54.19	G0V	0.59	-4.75	3	938	2090	3830	7120	11600	938	2090	3830	7120	11600						
HD 88737	10 14 29.75	+21 10 4.98	F9V	0.57	-4.52	3	228	582	1240	3350	9090	228	582	1240	3350	9090						
LX UMa	10 14 35.79	+53 46 15.16	G5	0.77	-4.36	3	66	200	492	1780	6890	66	200	492	1780	6890						
HD 88725	10 14 8.33	+03 09 4.68	G3/5V	0.61	-4.85	3	1610	3410	5880	9140	12200	1610	3410	5880	9140	12200						
* 24 LMi	10 16 28.08	+28 40 56.94	G2V	0.64	-4.99	3	2760	5570	8800	11600	12800	2760	5570	8800	11600	12800						
HD 89090	10 16 4.07	-28 36 50.33	F8/G0V	0.54	-4.79	3	1170	2550	4580	7920	11900	1170	2550	4580	7920	11900						
HD 89591	10 16 52.16	-74 25 36.59	G0V	0.64	-4.89	3	1940	4040	6810	10000	12400	1940	4040	6810	10000	12400						
* 39 Leo	10 17 14.54	+23 06 22.39	F6V+M1	0.50	-4.82	3	1320	2850	5040	8380	12000	1320	2850	5040	8380	12000						
HD 89307	10 18 21.29	+12 37 15.99	G0V	0.59	-4.83	3	1440	3090	5400	8710	12100	1440	3090	5400	8710	12100						
HD 89441	10 18 34.94	-35 45 55.19	G4V	0.63	-4.45	3	140	380	852	2580	8180	140	380	852	2580	8180						
HD 89569	10 18 37.91	-56 06 37.42	F6V	0.48	-4.56	3	297	737	1520	3870	9600	297	737	1520	3870	9600						
HD 89269	10 18 51.95	+44 02 53.96	G4V	0.66	-4.91	3	2030	4220	7060	10200	12500	2030	4220	7060	10200	12500						
HD 89418	10 19 0.21	-11 11 6.27	G1V	0.57	-4.89	3	1870	3920	6630	9830	12400	1870	3920	6630	9830	12400						
HD 89454	10 19 16.28	-11 22 42.64	G5V	0.72	-4.78	3	1100	2410	4360	7700	11800	1100	2410	4360	7700	11800						
HD 89707	10 20 49.98	-15 28 47.68	G2VFe-1.5CH-0.8	0.55	-4.51	3	205	531	1140	3160	8900	205	531	1140	3160	8900						
HD 89777	10 21 16.79	-17 02 55.39	G8V	0.73	-4.96	3	2510	5120	8250	11300	12700	2510	5120	8250	11300	12700						
HD 89793	10 22 10.05	+16 28 11.51	G5	0.73	-4.90	3	1990	4140	6950	10100	12500	1990	4140	6950	10100	12500						
HD 89744	10 22 10.56	+41 13 46.31	F7V	0.53	-4.90	3	2010	4180	7000	10200	12500	2010	4180	7000	10200	12500						
HD 90028	10 22 51.43	-28 00 48.58	G3V	0.66	-4.99	3	2780	5600	8830	11600	12800	2780	5600	8830	11600	12800						
HD 89995	10 23 14.62	+05 41 39.31	F6V	0.46	-4.61	3	421	1010	2010	4680	10300	421	1010	2010	4680	10300						
HD 90054	10 23 43.45	+02 37 9.63	F8V	0.60	-4.91	3	2050	4260	7110	10300	12500	2050	4260	7110	10300	12500						
HD 90156	10 23 55.27	-29 38 43.91	G5V	0.66	-4.97	3	2570	5240	8400	11300	12700	2570	5240	8400	11300	12700						
HD 90211	10 24 51.14	-00 24 6.66	A0/1	0.55	-4.97	3	2610	5310	8490	11400	12800	2610	5310	8490	11400	12800						
HD 90323	10 25 15.63	-19 48 11.96	G1V	0.63	-5.00	3	2840	5710	8950	11600	12800	2840	5710	8950	11600	12800						
HD 90712	10 27 47.78	-34 23 58.13	G0VCH-0.3	0.58	-4.42	3	110	306	708	2270	7720	110	306	708	2270	7720						
HD 90508	10 28 3.88	+48 47 5.66	F9-V	0.60	-4.91	3	2060	4280	7140	10300	12500	2060	4280	7140	10300	12500						
HD 90681	10 28 51.39	+34 53 8.43	G0	0.65	-4.77	3	1040	2290	4150	7480	11700	1040	2290	4150	7480	11700						
HD 90905	10 29 42.23	+01 29 28.04	G1V	0.56	-4.34	3	57	176	443	1660	6670	57	176	443	1660	6670						
* 36 UMa	10 30 37.58	+55 58 49.94	F8V	0.53	-4.73	3	828	1860	3460	6690	11400	828	1860	3460	6690	11400						
HD 91324	10 31 21.82	-53 42 55.74	F9VFe-0.8CH-0.7	0.50	-4.69	3	659	1510	2880	5940	11000	659	1510	2880	5940	11000						
HD 91148	10 31 45.60	+24 04 55.94	G8V	0.71	-4.76	3	976	2160	3960	7260	11600	976	2160	3960	7260	11600						
HD 91204	10 32 5.50	+17 59 23.05	G0	0.65	-4.98	3	2720	5500	8720	11500	12800	2720	5500	8720	11500	12800						
HD 91331	10 33 28.13	+42 59 49.74	G5	0.65	-4.99	3	2810	5660	8900	11600	12800	2810	5660	8900	11600	12800						
HD 91332	10 33 9.72	+30 45 16.55	G8III	0.65	-4.70	3	701	1600	3030	6140	11100	701	1600	3030	6140	11100						
HD 91275	10 34 5.06	+65 00 20.26	G0	0.70	-4.88	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400						
HD 91638	10 34 50.22	-03 53 58.89	F7V	0.51	-4.82	3	1370	2940	5180	8510	12100	1370	2940	5180	8510	12100						
HD 90343	10 35 11.27	+84 23 57.56	K0	0.80	-4.66	3	557	1300	2520	5440	10800	557	1300	2520	5440	10800						
HD 91702	10 35 56.04	+36 55 50.76	G5	0.72	-4.84	3	1490	3190	5560	8850	12200	1490	3190	5560	8850	12200						
LR Hya	10 36 2.21	-11 54 47.93	K1.5Vk:	0.85	-4.44	3	128	351	797	2470	8000	128	351	797	2470	8000						
V418 Hya	10 36 30.79	-13 50 35.82	K2V	0.87	-4.57	7	1.2,3	318	783	1610	4010	9740	386	578	941	1450	2240	434	638	966	1380	1920

Table 2 continued

Table 2 (continued)

HD 91889	10 36 32.38	-12 13 48.44	F8V	0.52	-4.81	3	1280	2760	4910	8250	12000	1280	2760	4910	8250	12000
HD 91876	10 36 45.83	+14 02 43.56	F8	0.56	-4.76	3	1010	2230	4060	7380	11700	1010	2230	4060	7380	11700
HD 91909	10 37 59.57	+54 53 14.49	G0	0.69	-4.84	3	1470	3150	5500	8800	12100	1470	3150	5500	8800	12100
HD 91948	10 38 19.87	+60 07 28.33	F6V	0.47	-4.50	3	197	513	1110	3100	8820	197	513	1110	3100	8820
HD 92222B	10 39 27.04	+31 42 3.45		0.79	-4.52	3	229	585	1240	3360	9110	229	585	1240	3360	9110
HD 92222A	10 39 27.89	+31 42 17.98		0.72	-4.45	3	131	359	811	2500	8050	131	359	811	2500	8050
HD 92194	10 39 7.82	+32 49 59.57	G8III	0.71	-4.61	3	412	989	1980	4620	10200	412	989	1980	4620	10200
HD 92320	10 40 56.91	+59 20 33.02	F2-F5Ib	0.68	-4.77	3	1030	2270	4130	7450	11700	1030	2270	4130	7450	11700
HD 92719	10 42 13.32	-13 47 15.77	G1.5V	0.62	-4.86	3	1610	3420	5910	9150	12200	1610	3420	5910	9150	12200
CE Ant	10 42 30.10	-33 40 16.23	M2Ve	1.30	530	2						1	4	11	62	179
HD 92788	10 42 48.53	-02 11 1.52	G6V	0.69	-4.98	3	2690	5440	8650	11500	12800	2690	5440	8650	11500	12800
V419 Hya	10 43 28.27	-29 03 51.43	K1V	1.2,3	138	3	70	210	514	1830	6990	31	103	179	256	367
HD 92885	10 43 34.84	+04 15 2.81	F7/8V	0.58	-4.65	3	522	1220	2390	5260	10600	522	1220	2390	5260	10600
HD 92987	10 43 36.28	-39 03 30.55	G2/3V	0.64	-4.93	3	2280	4690	7700	10800	12600	2280	4690	7700	10800	12600
HD 92855	10 44 0.62	+46 12 23.94	F9V	0.57	-4.38	3	81	237	569	1960	7220	81	237	569	1960	7220
HD 93372	10 44 26.96	-72 26 36.59	F6VFe+0.4	0.51	-4.58	3	334	818	1670	4120	9830	334	818	1670	4120	9830
HD 93215	10 46 9.23	+25 45 39.69	G5V	0.67	-4.64	3	500	1180	2310	5130	10600	500	1180	2310	5130	10600
HD 93489	10 47 28.62	-13 58 44.88	G3V	0.62	-4.93	3	2280	4690	7710	10900	12600	2280	4690	7710	10900	12600
HD 93528	10 47 31.15	-22 20 52.91	K0V	0.81	-4.44	100	1,2,3	124	341	777	2420	7940	40	143	241	365
HD 93745	10 49 0.52	-31 03 32.92	G2V	0.60	-4.97	3	2630	5340	8530	11400	12800	2630	5340	8530	11400	12800
HD 93664	10 49 25.86	+41 23 24.12	G0	0.65	-4.88	3	1820	3830	6500	9710	12400	1820	3830	6500	9710	12400
HD 93849	10 49 35.40	-29 59 39.91	G0/1V	0.56	-5.00	3	2830	5690	8940	11600	12800	2830	5690	8940	11600	12800
BD+13 2311B	10 49 35.94	+12 55 46.69	F8	0.55	-4.91	3	2030	4230	7070	10300	12500	2030	4230	7070	10300	12500
BD+13 2311	10 49 37.14	+12 55 45.16	F8	0.48	-4.88	3	1790	3760	6410	9610	12300	1790	3760	6410	9610	12300
HD 94151	10 51 39.23	-22 04 18.58	G8V	0.72	-4.99	3	2790	5630	8870	11600	12800	2790	5630	8870	11600	12800
HD 94270	10 52 39.28	-17 01 48.89	G2V	0.58	-4.94	3	2340	4800	7850	11000	12600	2340	4800	7850	11000	12600
HD 94268	10 52 44.43	-11 25 22.87	G0VFe-0.7CH-0.3	0.56	-4.65	3	533	1250	2430	5310	10700	533	1250	2430	5310	10700
HD 94280	10 52 48.94	-06 49 19.17	G0/1V	0.56	-4.86	3	1680	3550	6100	9330	12300	1680	3550	6100	9330	12300
HD 94375	10 53 14.68	-30 05 47.04	F8V	0.54	-4.93	3	2240	4610	7600	10800	12600	2240	4610	7600	10800	12600
HD 94292	10 53 2.26	+04 57 43.21	G5	0.67	-4.82	3	1380	2960	5210	8540	12100	1380	2960	5210	8540	12100
* b03 Hya	10 53 29.53	-20 08 19.42	F6V	0.48	-4.79	3	1170	2550	4580	7930	11900	1170	2550	4580	7930	11900
HD 94340	10 53 4.53	-20 37 41.54	G4V	0.65	-4.55	3	271	680	1420	3680	9430	271	680	1420	3680	9430
HD 94383	10 54 10.52	+34 07 52.82	G0	0.62	-4.96	3	2530	5150	8300	11300	12700	2530	5150	8300	11300	12700
HD 94527	10 54 11.02	-37 15 51.40	G8V	0.72	-4.71	3	743	1690	3180	6330	11200	743	1690	3180	6330	11200
HD 94457	10 54 35.36	+29 37 48.28	F8	0.56	-4.99	3	2750	5550	8780	11600	12800	2750	5550	8780	11600	12800
HD 94482	10 54 6.55	-23 11 5.43	G1/2V	0.56	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800
HD 94690	10 55 43.37	-05 33 5.70	G6V	0.71	-4.94	3	2310	4740	7780	10900	12600	2310	4740	7780	10900	12600
HD 94838	10 56 45.84	-17 27 7.94	G3V	0.64	-4.69	3	653	1500	2860	5920	11000	653	1500	2860	5920	11000
HD 94835	10 57 9.55	-21 48 17.54	G0	0.62	-4.74	3	883	1970	3650	6910	11500	883	1970	3650	6910	11500
HD 95091	10 58 11.03	-35 39 55.21	G3V	0.66	-4.97	3	2570	5230	8390	11300	12700	2570	5230	8390	11300	12700
BD-10 3166	10 58 28.78	-10 46 13.39	K3.0V	0.89	-4.91	3	2100	4360	7250	10400	12500	2100	4360	7250	10400	12500
HD 95136	10 58 33.08	-39 55 45.56	G3/5V	0.66	-4.99	3	2770	5590	8830	11600	12800	2770	5590	8830	11600	12800
* 47 UMa	10 59 27.97	+40 25 48.92	G1-VFe-0.5	0.62	-4.93	3	2210	4570	7540	10700	12600	2210	4570	7540	10700	12600
HD 95263	10 59 4.48	-53 32 21.10	F9VFe-0.8CH-0.7	0.50	-4.61	3	419	1000	2000	4670	10300	419	1000	2000	4670	10300
XZ LMI	10 59 48.28	+25 17 23.48	G8V	0.76	-4.36	3	66	200	493	1780	6900	66	200	493	1780	6900
HD 95241	11 00 20.68	+42 54 42.13	F9V	0.58	-4.96	3	2520	5130	8270	11300	12700	2520	5130	8270	11300	12700
HD 95456	11 00 40.78	-31 50 21.73	F8V	0.53	-4.99	3	2750	5550	8780	11600	12800	2750	5550	8780	11600	12800
HD 95521	11 00 50.26	-49 01 11.41	G2V	0.64	-4.93	3	2240	4610	7600	10800	12600	2240	4610	7600	10800	12600
HD 95610	11 01 43.17	-33 54 19.53	G1/2V	0.55	-4.74	3	859	1920	3570	6810	11400	859	1920	3570	6810	11400

Table 2 continued



Table 2 (continued)

CD-33 7779	11 30 18.65	-34 30 1.36	K4.5V:k:	0.74	-4.34	3	53	167	423	1610	6570	53	167	423	1610	6570
* 58 UMa	11 30 31.13	+43 10 23.67	F4V	0.51	-4.90	3	1960	4090	6870	10100	12400	1960	4090	6870	10100	12400
* 88 Leo	11 31 44.94	+14 21 52.21	F9.5V	0.57	-4.77	3	1020	2250	4100	7420	11700	1020	2250	4100	7420	11700
HD 100219	11 31 47.55	-20 46 35.30	F8V	0.53	-4.58	3	328	806	1650	4090	9800	328	806	1650	4090	9800
HD 100167	11 31 53.92	+41 26 21.82	F8	0.62	-4.62	3	440	1050	2080	4790	10300	440	1050	2080	4790	10300
HD 238008	11 31 55.39	+58 25 51.11	G5	0.60	-4.94	3	2330	4790	7840	11000	12600	2330	4790	7840	11000	12600
HD 100203	11 32 20.72	+61 04 57.00	F8Vmf5	0.50	-4.87	3	1710	3620	6200	9420	12300	1710	3620	6200	9420	12300
CD-26 8623B	11 32 41.17	-26 52 9.11	M5.5	1.48		560	1					1	2	5	16	78
CD-26 8623	11 32 41.27	-26 51 55.96	M3Ve	1.46		530	1,2					1	2	6	23	106
HD 100595	11 32 51.40	-36 12 33.13	G0V	0.59	-4.90	3	1970	4120	6920	10100	12400	1970	4120	6920	10100	12400
HD 100555	11 33 56.68	-48 49 9.23	G6V	0.73	-4.83	3	1440	3090	5400	8710	12100	1440	3090	5400	8710	12100
* 89 Leo	11 34 21.95	+03 03 36.59	F5.5V	0.51	-4.55	3	285	710	1480	3780	9530	285	710	1480	3780	9530
HD 100623	11 34 29.49	-32 49 52.82	K0V	0.81	-4.92	3	2150	4450	7380	10500	12500	2150	4450	7380	10500	12500
HD 101117	11 37 47.93	-52 53 28.27	G1IV/V	0.64	-4.58	3	342	837	1700	4180	9870	342	837	1700	4180	9870
HD 101093	11 37 59.10	-01 35 57.97	G3V	0.56	-4.85	3	1590	3370	5830	9090	12200	1590	3370	5830	9090	12200
HD 101171	11 38 11.04	-51 34 31.58	K0V	0.77	-4.89	3	1920	4010	6760	9960	12400	1920	4010	6760	9960	12400
HD 101165	11 38 37.11	+05 46 6.62	G5	0.61	-4.93	3	2240	4620	7610	10800	12600	2240	4620	7610	10800	12600
HD 101197	11 38 38.20	-11 14 21.25	G3V	0.66	-4.98	3	2720	5490	8710	11500	12800	2720	5490	8710	11500	12800
* iot Cr1	11 38 40.02	-13 12 6.98	F6.5V	0.52	-4.87	3	1710	3610	6190	9410	12300	1710	3610	6190	9410	12300
HD 101177	11 38 44.90	+45 06 30.31	G0V+K2V	0.56	-4.86	3	1680	3550	6090	9320	12300	1680	3550	6090	9320	12300
HD 101530	11 40 29.09	-64 27 51.36	G2V	0.61	-4.73	3	852	1910	3540	6780	11400	852	1910	3540	6780	11400
HD 101472	11 40 36.59	-08 24 20.37	F7V	0.55	-4.43	3	119	328	752	2370	7860	119	328	752	2370	7860
HD 101614	11 41 26.24	-41 01 5.74	G0V	0.59	-4.75	3	920	2050	3770	7050	11500	920	2050	3770	7050	11500
* 61 UMa	11 41 3.02	+34 12 5.88	G8V	0.73	-4.55	3	274	685	1430	3700	9450	274	685	1430	3700	9450
HD 101563	11 41 8.40	-29 11 46.45	G2III/IV	0.65	-4.97	3	2610	5300	8480	11400	12800	2610	5300	8480	11400	12800
HD 101675	11 42 13.73	+39 39 34.74	G5III:	0.90	-4.92	3	2130	4410	7320	10500	12500	2130	4410	7320	10500	12500
HD 101805	11 42 14.92	-75 13 38.33	F8V	0.53	-4.85	3	1550	3290	5710	8990	12200	1550	3290	5710	8990	12200
HD 101847	11 43 12.88	-39 26 19.68	G1/2V	0.63	-4.39	3	82	241	577	1980	7250	82	241	577	1980	7250
HD 101959	11 43 56.61	-29 44 51.74	F9V	0.55	-4.76	3	1010	2230	4060	7370	11700	1010	2230	4060	7370	11700
HD 101904	11 44 0.28	+64 57 51.12	G0	0.63	-4.96	3	2530	5160	8310	11300	12700	2530	5160	8310	11300	12700
HD 102071	11 44 39.30	-29 53 5.51	K0.5V	0.81	-4.78	3	1090	2400	4330	7670	11800	1090	2400	4330	7670	11800
HD 102158	11 45 30.51	+47 40 0.77	G2	0.62	-4.92	3	2140	4430	7350	10500	12500	2140	4430	7350	10500	12500
HD 102238	11 45 31.98	-71 14 41.72	G3V	0.68	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400
HD 102195	11 45 42.29	+02 49 17.33	K0V	0.83	-4.58	3	329	807	1650	4090	9800	329	807	1650	4090	9800
HD 102365	11 46 31.07	-40 30 1.28	G2V	0.66	-4.89	3	1930	4020	6780	9980	12400	1930	4020	6780	9980	12400
BD+51 1696	11 46 35.16	+50 52 54.68	sdG0	0.57	-4.72	3	803	1810	3380	6580	11300	803	1810	3380	6580	11300
HD 102361	11 46 48.95	-21 28 29.66	F8V	0.56	-4.70	3	694	1590	3010	6110	11100	694	1590	3010	6110	11100
HD 102357	11 47 0.91	+23 43 13.71	F7V	0.52	-4.38	3	75	223	541	1890	7110	75	223	541	1890	7110
HD 102438	11 47 15.81	-30 17 11.44	G6V	0.68	-4.99	3	2780	5610	8840	11600	12800	2780	5610	8840	11600	12800
HD 102574	11 48 23.49	-10 18 47.17	G0V	0.59	-5.00	3	2820	5680	8920	11600	12800	2820	5680	8920	11600	12800
CD-36 7429B	11 48 23.73	-37 28 48.52	M1V	1.43		480	1,2					1	4	10	44	147
CD-36 7429A	11 48 24.22	-37 28 49.11	K5V	1.37		460	1					1	5	13	61	172
HD 102634	11 49 1.28	-00 19 7.21	F8V	0.52	-4.88	3	1770	3720	6350	9560	12300	1770	3720	6350	9560	12300
HD 102677	11 49 13.15	-20 20 34.68	G3V	0.90	-4.99	3	2750	5560	8780	11600	12800	2750	5560	8780	11600	12800
HD 102843	11 50 20.93	-01 15 8.84	K0V	0.79	-4.94	3	2310	4750	7790	10900	12600	2310	4750	7790	10900	12600
* bet Vir	11 50 41.72	+01 45 52.99	F9V	0.53	-4.82	3	1340	2900	5110	8440	12000	1340	2900	5110	8440	12000
HD 103026	11 51 41.61	-30 50 5.30	F9V	0.55	-4.88	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400
HD 103095	11 52 58.77	+37 43 7.24	K1V-Fe-1.5	0.75	-4.88	3	1780	3750	6380	9590	12300	1780	3750	6380	9590	12300
HD 103432	11 54 32.07	+19 24 40.42	G6V	0.71	-4.73	3	842	1890	3510	6740	11400	842	1890	3510	6740	11400

Table 2 continued

Table 2 (continued)

HD 103431	11 54 35.08	+19 25 40.17	G5	0.76	-4.73	3	838	1880	3500	6730	11400	838	1880	3500	6730	11400	
HD 103417	11 54 39.44	+54 14 1.96	G5	0.74	-4.90	3	1970	4110	6900	10100	12400	1970	4110	6900	10100	12400	
HD 103493	11 55 1.34	-56 05 45.54	G5VFe-0.7	0.65	-4.67	3	583	1350	2610	5570	10800	583	1350	2610	5570	10800	
HD 103742	11 56 42.31	-32 16 5.36	G3V	0.67	-4.43	3	118	326	748	2360	7850	118	326	748	2360	7850	
HD 103743	11 56 43.78	-32 16 2.69	G4V	0.64	-4.34	3	55	173	486	1640	6630	55	173	486	1640	6630	
HD 103760	11 56 51.15	-38 50 57.59	G3V	0.65	-4.91	3	2100	4350	7250	10400	12500	2100	4350	7250	10400	12500	
HD 103753	11 56 56.23	-13 45 16.42	G1/2V	0.59	-4.77	3	1060	2340	4240	7570	11700	1060	2340	4240	7570	11700	
HD 103799	11 57 14.58	+40 20 37.47	F6V	0.49	-4.93	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600	
HD 103828	11 57 22.57	+58 17 59.32	G0	0.66	-4.80	3	1250	2710	4820	8160	12000	1250	2710	4820	8160	12000	
GR Leo	11 57 28.93	+19 59 2.05	K0	0.83	-4.55	3	275	689	1440	3710	9460	275	689	1440	3710	9460	
HD 103829	11 57 31.23	+53 33 15.05	F8	0.67	-4.97	3	2610	5310	8490	11400	12800	2610	5310	8490	11400	12800	
HD 103891	11 57 45.30	-08 32 55.37	F8V	0.57	-4.87	3	1750	3680	6290	9500	12300	1750	3680	6290	9500	12300	
HD 103890	11 57 46.19	-08 16 31.00	F8V	0.53	-4.89	3	1860	3900	6600	9800	12400	1860	3900	6600	9800	12400	
HD 103975	11 58 15.61	-47 58 37.56	F8.5VFe-0.5	0.53	-4.76	3	964	2140	3920	7210	11600	964	2140	3920	7210	11600	
HD 104212	12 00 3.36	-46 47 3.08	G3V	0.65	-4.87	3	2630	5340	8530	11400	12800	2630	5340	8530	11400	12800	
HD 104304	12 00 44.46	-10 26 46.06	G8IV	0.76	-4.83	3	1430	3070	5380	8690	12100	1430	3070	5380	8690	12100	
HD 104379	12 01 13.14	+30 38 17.89	F8	0.56	-4.67	3	581	1350	2600	5560	10800	581	1350	2600	5560	10800	
HD 104389	12 01 16.02	+79 05 14.73	G0	0.61	-4.71	3	760	1720	3230	6400	11300	760	1720	3230	6400	11300	
HD 104437	12 01 40.81	+39 35 11.72	G5IV	0.67	-4.77	3	1050	2310	4190	7520	11700	1050	2310	4190	7520	11700	
HD 104471	12 01 46.10	-34 39 1.14	G0V	0.59	-4.42	3	105	296	688	2230	7650	105	296	688	2230	7650	
HD 104551	12 02 20.89	-59 59 16.48	G2V	0.65	-4.50	3	194	504	1090	3070	8780	194	504	1090	3070	8780	
HD 104576	12 02 39.45	-10 42 49.04	G3V	0.71	-4.35	3	58	180	451	1680	6710	58	180	451	1680	6710	
HD 104588	12 02 45.06	+31 30 36.91	G0	0.69	-4.90	3	2010	4190	7010	10200	12500	2010	4190	7010	10200	12500	
HD 104760	12 03 46.29	-44 07 22.10	G2/3III	0.65	-4.94	3	2360	4840	7910	11000	12700	2360	4840	7910	11000	12700	
HD 104860	12 04 33.73	+66 20 11.71	G0/F9V	0.59	-4.34	122	2.3	54	169	429	1620	6600	63	250	1980	7790	12100
HD 104800	12 04 5.56	+03 20 26.71	G3V	0.58	-4.84	3	1490	3180	5540	8830	12200	1490	3180	5540	8830	12200	
HD 104982	12 05 13.41	-28 43 2.03	G2V	0.65	-4.97	3	2620	5320	8500	11400	12800	2620	5320	8500	11400	12800	
HD 238069	12 05 35.48	+56 58 43.80	G5	0.67	-4.87	3	1710	3610	6190	9410	12300	1710	3610	6190	9410	12300	
HD 105113	12 06 5.20	-32 57 40.43	G0V	0.62	-4.96	3	2480	5070	8200	11200	12700	2480	5070	8200	11200	12700	
HD 105119	12 06 8.71	-69 07 31.41	G0V	0.55	-4.92	3	2160	4480	7420	10600	12500	2160	4480	7420	10600	12500	
HD 105279	12 07 16.00	+10 31 52.96	G5	0.66	-4.82	3	1340	2890	5100	8430	12000	1340	2890	5100	8430	12000	
HD 105330	12 07 35.30	-31 24 38.03	F8V	0.53	-4.66	3	546	1270	2480	5380	10700	546	1270	2480	5380	10700	
HD 105328	12 07 39.04	-23 58 33.15	G0V	0.61	-4.91	3	2060	4290	7150	10300	12500	2060	4290	7150	10300	12500	
HD 105405	12 08 6.96	+39 39 19.79	F8	0.52	-4.82	3	1360	2930	5170	8500	12100	1360	2930	5170	8500	12100	
HD 105421	12 08 7.07	+55 27 50.67	F8	0.49	-4.79	3	1140	2490	4480	7820	11800	1140	2490	4480	7820	11800	
HD 105590	12 09 28.54	-11 51 25.40	G4+K5	0.67	-4.87	3	1760	3700	6320	9530	12300	1760	3700	6320	9530	12300	
HD 105631	12 09 37.26	+40 15 7.40	G7V	0.79	-4.66	3	543	1270	2470	5370	10700	543	1270	2470	5370	10700	
HD 105678	12 09 47.09	+74 39 40.88	F6IV	0.49	-4.32	3	48	152	392	1530	6410	48	152	392	1530	6410	
HD 105837	12 10 57.93	-46 19 19.14	G0VFe-0.9	0.57	-4.82	3	1380	2970	5220	8550	12100	1380	2970	5220	8550	12100	
HD 105690	12 10 6.47	-49 10 50.66	G5V	0.71	-4.31	3	42	137	360	1450	6230	42	137	360	1450	6230	
HD 105913	12 11 22.91	-16 47 27.03	G6V+G7V	0.77	-4.53	3	242	614	1300	3460	9210	242	614	1300	3460	9210	
HD 105963B	12 11 26.79	+53 25 7.40	K3	0.86	-4.45	3	133	362	817	2510	8070	133	362	817	2510	8070	
HD 105963	12 11 27.77	+53 25 17.61	K2	0.88	-4.40	3	89	257	609	2050	7380	89	257	609	2050	7380	
HD 106156	12 12 57.53	+10 02 15.78	G8V	0.79	-4.70	3	722	1640	3100	6240	11200	722	1640	3100	6240	11200	
HD 106252	12 13 29.51	+10 02 29.89	G0	0.64	-4.88	3	1790	3770	6420	9630	12400	1790	3770	6420	9630	12400	
HD 106290	12 13 52.77	-55 12 26.64	G1V	0.62	-4.85	3	1590	3380	5850	9110	12200	1590	3380	5850	9110	12200	
HD 106423	12 14 27.33	+08 46 56.59	G0	0.62	-4.94	3	2320	4770	7820	10900	12600	2320	4770	7820	10900	12600	
HD 106453	12 14 42.12	-24 46 30.65	K1V	0.71	-4.61	3	415	995	1990	4640	10200	415	995	1990	4640	10200	
HD 106489	12 14 57.40	-41 08 21.91	G5V	0.65	-4.55	3	270	676	1410	3670	9420	270	676	1410	3670	9420	

Table 2 continued



Table 2 (continued)

HD 106516	12 15 10.56	-10 18 44.64	F9VFe-1.7CH-0.7	0.47	-4.39	3	86	251	597	2020	7330	86	251	597	2020	7330
HD 106506	12 15 18.55	-63 25 30.33	G1V	0.60	-3.94	3	1	8	70	533	3040	1	8	70	533	3040
HD 106552	12 15 32.95	-59 10 58.99	G5V	0.64	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600
HD 106869	12 17 31.87	-48 55 32.03	F8V	0.57	-5.00	3	2850	5730	8980	11700	12800	2850	5730	8980	11700	12800
HD 106949	12 17 50.82	-45 01 9.21	F8	0.53	-4.99	3	2800	5640	8870	11600	12800	2800	5640	8870	11600	12800
HD 107008	12 18 29.66	-42 25 38.88	G8/K0IV/V	0.84	-4.78	3	1080	2380	4310	7640	11800	1080	2380	4310	7640	11800
HD 107022	12 18 36.14	-44 08 42.63	G5V	0.69	-4.81	3	1300	2810	4970	8310	12000	1300	2810	4970	8310	12000
HD 107087	12 18 46.18	+19 10 5.20	G0V	0.57	-4.62	3	432	1030	2050	4740	10300	432	1030	2050	4740	10300
HD 107076	12 18 54.10	-40 07 40.17	G2V	0.61	-4.71	3	748	1700	3190	6350	11200	748	1700	3190	6350	11200
HD 107148	12 19 13.49	-03 19 11.24	G5V	0.71	-5.00	3	2830	5690	8940	11600	12800	2830	5690	8940	11600	12800
HD 107211	12 19 24.82	+39 37 28.92	G5V	0.67	-4.88	3	1780	3740	6380	9590	12300	1780	3740	6380	9590	12300
HD 107181	12 19 27.34	-26 06 26.55	G3V	0.74	-4.94	3	2330	4780	7830	11000	12600	2330	4780	7830	11000	12600
* 9 Com	12 19 29.53	+28 09 24.91	F8Va	0.52	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700
HD 107146	12 19 6.50	+16 32 53.87	G2V	0.60	-4.25	3	24	87	251	1150	5560	24	87	251	1150	5560
HD 107352	12 20 33.56	-30 26 19.67	F8/G0V	0.57	-4.64	3	491	1160	2270	5080	10500	491	1160	2270	5080	10500
HD 107263	12 20 4.74	-37 48 12.58	F8/G0V	0.55	-4.80	3	1240	2700	4800	8150	11900	1240	2700	4800	8150	11900
HD 107434	12 21 9.57	-38 18 9.80	F6V	0.54	-4.39	3	87	252	599	2030	7340	87	252	599	2030	7340
* 17 Vir	12 22 32.04	+05 18 19.61	F8V	0.57	-4.81	3	1310	2820	5000	8340	12000	1310	2820	5000	8340	12000
HD 107692	12 22 44.81	-39 10 39.65	G1.5V	0.64	-4.70	3	708	1610	3050	6170	11200	708	1610	3050	6170	11200
HD 107956	12 24 21.60	-25 12 40.30	F8V	0.47	-4.61	3	409	981	1960	4600	10200	409	981	1960	4600	10200
HD 108076	12 24 45.89	+38 19 7.46	G0V	0.58	-4.85	3	1600	3390	5860	9110	12200	1600	3390	5860	9110	12200
CD-74 681	12 24 47.35	-75 03 9.04	K3Ve	1.00	-3.90	250	1,3					8	30	72	172	253
HD 108147	12 25 46.27	-64 01 19.52	F8/G0V	0.54	-4.74	3	899	2010	3700	6970	11500	899	2010	3700	6970	11500
HD 108300	12 26 30.40	+18 53 25.37	G3V	0.60	-4.92	3	2150	4440	7370	10500	12500	2150	4440	7370	10500	12500
HD 108351	12 27 2.52	-22 23 22.68	F7V	0.52	-4.64	3	499	1180	2310	5130	10600	499	1180	2310	5130	10600
HD 108446	12 27 48.48	-50 20 11.75	K2V	0.87	-4.76	3	961	2130	3910	7200	11600	961	2130	3910	7200	11600
HD 108510	12 27 55.49	-08 40 40.78	G1V-Fe-0.7	0.58	-4.72	3	788	1780	3330	6520	11300	788	1780	3330	6520	11300
HD 108500	12 28 16.88	-61 45 56.55	G3V	0.67	-4.52	3	228	583	1240	3350	9100	228	583	1240	3350	9100
* del Crv B	12 29 50.89	-16 31 15.21	K1	0.95		175	1					20	71	128	203	281
* 7 CVn	12 30 2.83	+51 32 8.28	F7V	0.51	-4.97	3	2600	5290	8470	11400	12700	2600	5290	8470	11400	12700
HD 108799	12 30 4.77	-13 23 35.46	G1/2V	0.58	-4.38	3	76	226	546	1910	7130	76	226	546	1910	7130
HD 108942	12 30 41.89	+50 58 28.34	G5	0.70	-4.84	3	1520	3240	5630	8920	12200	1520	3240	5630	8920	12200
HD 108954	12 30 50.14	+53 04 35.79	F9V	0.56	-4.82	3	1380	2960	5210	8540	12100	1380	2960	5210	8540	12100
HD 108916	12 30 54.28	+00 39 53.22	G5V	0.67	-4.54	3	253	639	1340	3550	9300	253	639	1340	3550	9300
HD 108956	12 31 3.28	+23 46 23.17	F8V	0.62	-4.96	3	2480	5070	8200	11200	12700	2480	5070	8200	11200	12700
HD 108953	12 31 35.50	-59 12 28.69	G8/K0IV/V	0.80	-4.98	3	2670	5420	8620	11500	12800	2670	5420	8620	11500	12800
TWA 20	12 31 38.07	-45 58 59.46	M3IVe	0.86		160	2					22	83	150	224	349
HD 109202	12 32 30.53	+56 58 34.83	G0	0.63	-4.95	3	2460	5040	8160	11200	12700	2460	5040	8160	11200	12700
BD+36 2278	12 32 31.07	+35 19 52.32	G0	0.63	-4.40	3	89	258	612	2060	7380	89	258	612	2060	7380
HD 109286	12 33 34.99	+07 16 51.29	G5	0.70	-4.52	3	222	570	1210	3300	9050	222	570	1210	3300	9050
* bet CVn	12 33 44.54	+41 21 26.92	G0V	0.60	-4.86	3	1660	3510	6030	9270	12300	1660	3510	6030	9270	12300
HD 109331	12 33 55.29	-06 46 39.81	F6V	0.52	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600
HD 109423	12 34 48.71	-41 14 4.57	K2V	0.90	-4.66	3	565	1320	2550	5480	10800	565	1320	2550	5480	10800
V1252 Cen	12 35 4.26	-41 36 38.62	M2Ve	1.34		460	2					2	5	12	57	172
HD 109570	12 35 49.14	-20 27 57.12	G6.5V	0.69	-4.87	3	1750	3680	6290	9500	12300	1750	3680	6290	9500	12300
HD 109718	12 36 39.72	+25 47 29.57	G0	0.69	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700
HD 109591	12 36 6.58	-42 51 8.28	G5V	0.67	-4.96	3	2520	5140	8290	11300	12700	2520	5140	8290	11300	12700
HD 109749	12 37 16.38	-40 48 43.62	G3V	0.71	-4.95	3	2470	5040	8160	11200	12700	2470	5040	8160	11200	12700
HD 110010	12 37 19.33	+79 12 55.93	G0	0.62	-4.42	3	105	294	684	2220	7640	105	294	684	2220	7640

Table 2 continued

Table 2 (continued)

HD 109929	12 38 25.48	+14 52 20.69	G0	0.61	-4.90	3	1960	4080	6860	10100	12400	1960	4080	6860	10100	12400						
HD 109908	12 38 49.10	-51 12 56.14	G0V	0.58	-4.49	3	185	483	1050	2990	8690	185	483	1050	2990	8690						
HD 110044	12 39 14.69	+29 14 7.54	K1V	0.86	-4.92	3	2190	4520	7470	10600	12500	2190	4520	7470	10600	12500						
HD 110143	12 40 21.99	-49 24 2.36	G0V	0.60	-4.48	3	165	437	963	2810	8480	165	437	963	2810	8480						
HD 110273	12 41 29.11	-56 18 16.56	F6V	0.54	-4.96	3	2530	5150	8290	11300	12700	2530	5150	8290	11300	12700						
HD 110420	12 42 19.78	-39 56 10.68	G8.5V	0.71	-4.73	3	845	1890	3520	6750	11400	845	1890	3520	6750	11400						
HD 110537	12 42 59.33	-04 02 57.60	G6/8V	0.68	-4.99	3	2740	5530	8750	11500	12800	2740	5530	8750	11500	12800						
HD 110605	12 43 32.05	-31 23 9.17	G8V	0.73	-4.94	3	2390	4900	7990	11100	12700	2390	4900	7990	11100	12700						
BD+60 1417	12 43 33.27	+60 00 52.70	K0	1.01		96	1					32	108	203	260	341						
HD 110619	12 43 42.72	-37 42 29.32	G5V	0.66	-4.89	3	1900	3970	6700	9900	12400	1900	3970	6700	9900	12400						
HD 110743	12 43 54.33	+34 20 37.25	K1V	0.84	-4.76	3	997	2200	4020	7330	11700	997	2200	4020	7330	11700						
HD 110745	12 43 59.37	+27 19 29.66	F8	0.59	-4.97	3	2570	5230	8390	11300	12700	2570	5230	8390	11300	12700						
* 10 CVn	12 44 59.41	+39 16 44.10	F9V-Fe-0.3	0.55	-4.84	3	1510	3230	5620	8900	12200	1510	3230	5620	8900	12200						
HD 111066	12 46 32.70	+24 08 42.17	F8V	0.54	-4.88	3	1770	3740	6370	9580	12300	1770	3740	6370	9580	12300						
HD 111153	12 46 48.45	+43 09 6.70	F8	0.48	-4.84	3	1520	3240	5630	8910	12200	1520	3240	5630	8910	12200						
LO Mus	12 47 19.00	-66 14 14.82	K1Vk	0.80	-4.07	3	3	18	90	631	4000	3	18	90	631	4000						
HD 111456	12 48 39.45	+60 19 11.04	F6V	0.47	-4.35	3	60	184	459	1700	6740	60	184	459	1700	6740						
HD 111395	12 48 47.05	+24 50 24.82	G5V	0.70	-4.55	3	274	686	1430	3700	9450	274	686	1430	3700	9450						
HD 111232	12 48 51.75	-68 25 30.55	G8VFe-1.0	0.70	-4.98	3	2710	5490	8700	11500	12800	2710	5490	8700	11500	12800						
HD 111398	12 48 52.42	+12 05 46.95	G5V	0.66	-5.00	3	2850	5720	8980	11700	12800	2850	5720	8980	11700	12800						
HD 111234	12 48 6.33	-35 42 11.26	G3V	0.61	-4.96	3	2490	5090	8220	11200	12700	2490	5090	8220	11200	12700						
HD 111484A	12 49 34.82	+03 49 5.56	G0	0.57	-4.59	3	364	885	1790	4320	9990	364	885	1790	4320	9990						
HD 111484	12 49 34.82	+03 49 5.56	F+V	0.57	-4.70	3	707	1610	3050	6170	11100	707	1610	3050	6170	11100						
HD 111484B	12 49 35.00	+03 49 14.16	G0	0.57	-4.71	3	749	1700	3190	6350	11200	749	1700	3190	6350	11200						
HD 111515	12 49 44.83	+01 11 16.94	G6/8V	0.69	-4.91	3	2070	4310	7180	10400	12500	2070	4310	7180	10400	12500						
HD 111564	12 50 20.18	-30 34 37.52	G0V	0.60	-4.89	3	1890	3960	6690	9890	12400	1890	3960	6690	9890	12400						
HD 111606	12 50 23.55	+09 49 45.11	G0	0.66	-4.94	3	2340	4800	7860	11000	12600	2340	4800	7860	11000	12600						
HD 111567	12 50 39.40	-51 54 46.05	G5V	0.66	-4.96	3	2540	5170	8320	11300	12700	2540	5170	8320	11300	12700						
* 38 Vir	12 53 11.16	-03 33 11.15	F6V	0.50	-4.58	3	332	814	1660	4110	9820	332	814	1660	4110	9820						
HD 112019	12 53 42.66	-27 24 15.44	G0V	0.52	-4.88	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400						
HD 112257	12 55 8.26	+27 45 58.89	G6V	0.67	-4.86	3	1660	3520	6050	9290	12300	1660	3520	6050	9290	12300						
CCDM J12574-4838AB	12 57 21.62	-48 38 9.55	F6V	0.57	-4.86	3	1680	3540	6090	9320	12300	1680	3540	6090	9320	12300						
HD 112758	12 59 1.56	-09 50 2.65	G9V	0.78	-4.96	3	2510	5120	8260	11300	12700	2510	5120	8260	11300	12700						
HD 112608	12 59 20.27	-70 37 57.12	G0/2V	0.60	-4.51	3	211	544	1170	3210	8950	211	544	1170	3210	8950						
HD 113039	13 00 46.46	+14 22 38.16	G0	0.60	-4.89	3	1920	4020	6770	9960	12400	1920	4020	6770	9960	12400						
HD 113027	13 01 6.79	-33 28 48.48	G2V	0.57	-4.73	3	845	1900	3520	6760	11400	845	1900	3520	6760	11400						
HD 113415	13 03 46.12	-20 35 0.59	F8.5V	0.56	-4.90	3	2010	4190	7020	10200	12500	2010	4190	7020	10200	12500						
PX Vir	13 03 49.65	-05 09 42.52	K1V	0.87	-4.37	142	1,2,3	72	215	523	1850	7030	28	97	171	242	364	63	123	187	251	363
HD 113376	13 04 30.97	-65 55 18.47	G3V	0.73	-4.93	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600						
HD 113553	13 05 16.81	-50 51 23.82	G6V	0.68	-4.27	3	30	104	287	1250	5800	30	104	287	1250	5800						
HD 113767	13 06 34.91	-49 41 9.86	K0.5Vk:	0.81	-4.63	3	469	1110	2190	4960	10500	469	1110	2190	4960	10500						
HD 112540	13 08 20.63	-87 13 9.51	G7V	0.72	-5.00	3	2840	5710	8960	11600	12800	2840	5710	8960	11600	12800						
HD 113478	13 08 28.94	-82 43 15.85	G0V	0.62	-4.93	3	2260	4650	7650	10800	12600	2260	4650	7650	10800	12600						
HD 114174	13 08 51.02	+05 12 26.06	G3IV+D	0.67	-4.89	3	1890	3950	6680	9870	12400	1890	3950	6680	9870	12400						
HD 114260	13 09 42.55	-22 11 33.18	G8V	0.72	-4.93	3	2270	4670	7690	10800	12600	2270	4670	7690	10800	12600						
* alf Com A	13 09 59.28	+17 31 45.86	F5V	0.49	-4.49	3	187	489	1060	3010	8720	187	489	1060	3010	8720						
HD 114335	13 10 19.47	-32 48 19.60	F6V	0.56	-4.89	3	1860	3900	6600	9800	12400	1860	3900	6600	9800	12400						
HD 114432	13 10 46.61	-24 10 45.28	G7V	0.76	-4.55	3	281	701	1460	3750	9500	281	701	1460	3750	9500						
HD 114506	13 10 9.45	+53 37 39.83	G5	0.74	-4.67	3	579	1340	2600	5550	10800	579	1340	2600	5550	10800						

Table 2 continued

Table 2 (continued)

HD 114606	13 11 21.40	+09 37 33.54	G4	0.62	-4.94	3	2360	4840	7900	11000	12700	2360	4840	7900	11000	12700
* bet Com	13 11 52.39	+27 52 41.45	F9.5V	0.58	-4.67	3	601	1390	2670	5660	10900	601	1390	2670	5660	10900
HD 114762	13 12 19.75	+17 31 1.61	F9VgFsmF4+M67V	0.53	-4.83	3	1400	3000	5270	8600	12100	1400	3000	5270	8600	12100
HD 114613	13 12 3.18	-37 48 10.88	G3V	0.69	-4.96	1,3	2540	5180	8330	11300	12700	56	195	375	1280	6330
* 53 Vir	13 12 3.54	-16 11 54.98	F5.5V	0.46	-4.31	3	42	138	362	1450	6240	42	138	362	1450	6240
HD 114729	13 12 44.26	-31 52 24.06	G0V	0.59	-4.93	3	2210	4570	7540	10700	12600	2210	4570	7540	10700	12600
HD 114630	13 12 55.69	-59 48 59.75	G0V	0.59	-4.32	3	45	147	380	1500	6350	45	147	380	1500	6350
HD 114826	13 13 13.04	-08 55 54.22	G3/5V	0.68	-4.46	3	146	392	877	2640	8250	146	392	877	2640	8250
HD 115043	13 13 37.01	+56 42 29.76	G1Va	0.61	-4.41	3	97	278	652	2150	7530	97	278	652	2150	7530
HD 114853	13 13 52.23	-45 11 8.88	G1.5V	0.64	-4.67	3	2630	5340	8530	11400	12800	2630	5340	8530	11400	12800
HD 114837	13 14 15.15	-59 06 11.65	F6VFe-0.4	0.49	-4.67	3	574	1330	2580	5530	10800	574	1330	2580	5530	10800
HD 116459	13 15 11.48	+84 45 7.72	G0	0.52	-4.83	3	1440	3090	5410	8720	12100	1440	3090	5410	8720	12100
HD 113283	13 15 26.44	-87 33 38.46	G5V	0.71	-4.65	3	514	1210	2360	5210	10600	514	1210	2360	5210	10600
* e Vir	13 16 46.52	+09 25 26.97	G0V	0.59	-4.37	3	72	215	524	1850	7040	72	215	524	1850	7040
HD 115311	13 16 53.56	-34 35 54.38	G5V	0.74	-4.78	3	1820	3820	6490	9690	12400	1820	3820	6490	9690	12400
HD 115863	13 21 23.21	-64 02 59.08	G0V	0.58	-4.78	3	1110	2430	4380	7720	11800	1110	2430	4380	7720	11800
HD 116219	13 22 32.32	-22 57 10.06	G1/2V	0.56	-4.85	3	1540	3290	5700	8980	12200	1540	3290	5700	8980	12200
HD 115674	13 23 0.07	-81 18 36.41	G5VFe-0.7	0.67	-4.90	3	1970	4100	6900	10100	12400	1970	4100	6900	10100	12400
HD 116442	13 23 39.15	+02 43 23.98	G9V	0.77	-4.98	3	2700	5470	8670	11500	12800	2700	5470	8670	11500	12800
HD 116443	13 23 40.85	+02 43 30.99	K2V	0.84	-4.98	3	2660	5390	8580	11400	12800	2660	5390	8580	11400	12800
HD 116321	13 23 9.87	-24 44 2.89	F8IV/V	0.53	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400
HD 116956	13 25 45.53	+56 58 13.78	G9V	0.80	-4.39	3	86	251	597	2020	7330	86	251	597	2020	7330
HD 117122	13 27 27.61	+44 42 25.31	G5	0.69	-4.90	3	1960	4080	6860	10100	12400	1960	4080	6860	10100	12400
HD 117126	13 28 18.71	-00 50 24.70	G3/5V	0.65	-4.96	3	2560	5210	8370	11300	12700	2560	5210	8370	11300	12700
HD 117105	13 28 30.55	-27 23 30.64	F9.5V	0.58	-4.97	3	2620	5310	8490	11400	12800	2620	5310	8490	11400	12800
HD 117378	13 29 3.28	+42 14 17.75	F9.5V+	0.59	-4.49	3	179	470	1030	2940	8630	179	470	1030	2940	8630
HD 117497	13 30 16.86	+28 34 4.53	F7V	0.49	-4.91	3	2060	4270	7140	10300	12500	2060	4270	7140	10300	12500
HD 117576	13 30 31.01	+44 34 58.25	G5III	0.64	-4.77	3	1030	2270	4120	7450	11700	1030	2270	4120	7450	11700
HD 117635	13 31 39.94	-02 19 2.87	G8V	0.78	-4.95	3	2400	4920	8010	11100	12700	2400	4920	8010	11100	12700
HD 117618	13 32 25.56	-47 16 16.91	G0V	0.60	-4.84	3	1470	3150	5490	8790	12100	1470	3150	5490	8790	12100
HD 117860	13 33 11.31	-08 26 36.05	G2V	0.62	-4.50	3	193	504	1090	3060	8780	193	504	1090	3060	8780
HD 117360	13 33 13.66	-77 34 9.80	F8VFe-0.9	0.46	-4.60	3	374	906	1830	4390	10000	374	906	1830	4390	10000
HD 117807	13 33 29.41	-43 25 21.97	F5.5V	0.47	-4.61	3	410	984	1970	4610	10200	410	984	1970	4610	10200
HD 117854	13 34 25.39	-59 30 44.50	G0V	0.64	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600
HD 117939	13 34 32.65	-38 54 25.97	G4V	0.67	-4.82	3	1380	2970	5230	8560	12100	1380	2970	5230	8560	12100
HD 118100	13 34 43.21	-08 20 31.34	K5Ve	1.18	-3.98	25	1,3					111	252	353	545	710
HD 118576	13 37 12.36	+30 05 6.56	G5V	0.63	-4.80	3	1210	2620	4690	8030	11900	1210	2620	4690	8030	11900
HD 118261	13 37 12.38	-61 41 30.71	F6V	0.49	-4.55	3	285	711	1480	3780	9530	285	711	1480	3780	9530
HD 118465	13 37 48.11	-35 03 53.42	G5V	0.69	-4.51	3	214	550	1180	3240	8970	214	550	1180	3240	8970
HD 118722	13 37 51.57	+43 22 0.18	G5	0.61	-4.96	3	2500	5100	8240	11200	12700	2500	5100	8240	11200	12700
HD 118475	13 39 20.27	-67 40 15.26	F9VFe+0.3	0.62	-4.89	3	1930	4020	6780	9970	12400	1930	4020	6780	9970	12400
HD 119124	13 40 23.23	+50 31 9.90	F7.7V	0.52	-4.35	3	59	183	457	1690	6730	59	183	457	1690	6730
HD 118972	13 41 4.17	-34 27 50.97	K0V	0.85	-4.42	3	111	311	716	2290	7750	111	311	716	2290	7750
HD 119550	13 43 35.70	+14 21 56.19	G2V	0.63	-4.86	3	1660	3510	6040	9280	12300	1660	3510	6040	9280	12300
HD 119992	13 45 13.21	+55 52 45.65	F7IV-V	0.47	-4.89	3	1850	3880	6580	9780	12400	1850	3880	6580	9780	12400
HD 119824	13 45 22.95	+11 28 45.39	G0	0.66	-4.77	3	1020	2260	4110	7430	11700	1020	2260	4110	7430	11700
HD 119782	13 46 42.03	-56 51 0.37	K1.5Vk:	0.86	-4.79	3	1170	2550	4580	7920	11900	1170	2550	4580	7920	11900
* tau Boo	13 47 15.74	+17 27 24.86	F7IV-V	0.50	-4.63	3	452	1080	2130	4860	10400	452	1080	2130	4860	10400
HD 120205	13 48 10.06	-10 47 19.50	K0V	0.83	-4.54	3	260	655	1370	3600	9350	260	655	1370	3600	9350

Table 2 continued

Table 2 (continued)

HD 120528	13 48 40.34	+53 15 40.76	G5V	0.67	-4.87	3	1730	3650	6240	9460	12300	1730	3650	6240	9460	12300
HD 120237	13 48 55.07	-35 42 15.06	G0V	0.56	-4.69	3	664	1520	2900	5970	11000	664	1520	2900	5970	11000
HD 120368	13 49 27.19	-26 20 58.96	G8/K0V	0.71	-4.47	3	154	411	913	2710	8350	154	411	913	2710	8350
HD 120690	13 51 20.34	-24 23 25.84	G5Va	0.70	-4.71	3	754	1710	3210	6380	11300	754	1710	3210	6380	11300
HD 120559	13 51 40.39	-57 26 8.29	G7VFe-1.4CH-1	0.66	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600
HD 120780	13 52 35.86	-50 55 18.22	K0V	0.89	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600
HD 121560	13 55 49.99	+14 03 23.41	F6V	0.53	-4.82	3	1340	2880	5090	8420	12000	1340	2880	5090	8420	12000
HD 121579	13 56 52.71	-27 39 42.57	F3V	0.50	-4.76	3	973	2160	3940	7250	11600	973	2160	3940	7250	11600
HD 121504	13 57 17.24	-56 02 24.16	G2V	0.59	-4.73	3	855	1920	3560	6800	11400	855	1920	3560	6800	11400
HD 121849	13 58 36.71	-34 00 4.66	G5V	0.69	-4.98	3	2690	5440	8640	11500	12800	2690	5440	8640	11500	12800
HD 122106	13 59 49.28	-03 32 59.31	F6V	0.49	-4.70	3	702	1600	3030	6140	11100	702	1600	3030	6140	11100
HD 122255	14 00 54.06	-06 44 46.31	F6V	0.52	-4.86	3	1630	3450	5940	9190	12300	1630	3450	5940	9190	12300
HD 122245	14 01 25.76	-31 37 14.69	F8/G2+F	0.48	-4.79	3	1140	2490	4490	7830	11800	1140	2490	4490	7830	11800
HD 122652	14 02 31.64	+31 39 39.09	F8	0.56	-4.66	3	565	1310	2540	5480	10800	565	1310	2540	5480	10800
HD 122676	14 02 56.87	+14 58 31.26	G7V	0.74	-4.94	3	2310	4750	7790	10900	12600	2310	4750	7790	10900	12600
HD 122510	14 03 1.72	-31 41 2.53	F5V	0.48	-4.43	3	112	312	720	2300	7760	112	312	720	2300	7760
HD 122742	14 03 32.35	+10 47 12.44	G6V	0.75	-4.93	3	2250	4640	7640	10800	12600	2250	4640	7640	10800	12600
HD 122703	14 03 53.09	-22 25 17.75	F3IV	0.45	-4.94	3	2	14	81	594	3760	2	14	81	594	3760
HD 122341	14 04 41.34	-72 04 10.78	G0V	0.58	-4.88	3	1810	3810	6480	9680	12400	1810	3810	6480	9680	12400
HD 122973	14 05 10.69	-09 02 54.62	G2V	0.61	-4.36	3	67	202	497	1790	6920	67	202	497	1790	6920
HD 123227	14 07 41.53	-49 52 3.43	G3V	0.66	-4.94	3	2320	4770	7820	10900	12600	2320	4770	7820	10900	12600
HD 123613	14 08 15.53	+21 11 34.84	F8	0.53	-4.89	3	1850	3890	6590	9790	12400	1850	3890	6590	9790	12400
HD 123760	14 09 26.53	+10 14 36.77	G3V	0.66	-4.76	3	968	2150	3930	7230	11600	968	2150	3930	7230	11600
HD 123651	14 10 4.81	-46 16 10.02	G0/IV	0.57	-4.68	3	623	1440	2750	5770	10900	623	1440	2750	5770	10900
V759 Cen	14 10 41.26	-47 46 8.39	G0V	0.59	-3.90	3	1	9	73	531	2820	1	9	73	531	2820
HD 124257B	14 10 59.85	+50 15 5.68	G5	0.66	-4.99	3	2780	5610	8840	11600	12800	2780	5610	8840	11600	12800
HD 124115	14 11 31.20	+01 21 44.63	F6V	0.48	-4.63	3	463	1100	2170	4920	10400	463	1100	2170	4920	10400
HD 124106	14 11 46.17	-12 36 42.36	KIV	0.87	-4.63	1,2,3	471	1120	2200	4970	10500	471	1120	2200	4970	10500
HD 124077	14 12 20.51	-39 45 6.51	F7/G1V	0.53	-4.78	3	1100	2420	4370	7710	11800	1100	2420	4370	7710	11800
HD 124752	14 12 27.05	+67 35 10.17	K0-V+M2V	0.79	-4.66	3	544	1270	2470	5370	10700	544	1270	2470	5370	10700
HD 124227	14 13 0.67	-31 14 20.62	F7V	0.53	-4.77	3	1050	2310	4200	7530	11700	1050	2310	4200	7530	11700
HD 124425	14 13 40.79	-00 50 43.67	F6V	0.48	-4.53	3	233	593	1260	3390	9140	233	593	1260	3390	9140
HD 124694	14 13 51.33	+46 19 30.60	F8V	0.53	-4.40	3	93	266	628	2100	7450	93	266	628	2100	7450
HD 124553	14 14 21.31	-05 56 51.79	F8V	0.60	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400
HD 124364	14 14 24.83	-48 08 47.89	G5V	0.67	-4.91	3	2110	4370	7270	10400	12500	2110	4370	7270	10400	12500
HD 124239	14 15 14.17	-67 39 30.06	F8/G0V	0.56	-4.65	3	516	1210	2370	5220	10600	516	1210	2370	5220	10600
HD 124595	14 15 24.69	-37 57 32.98	G1/2V	0.61	-4.96	3	2540	5180	8330	11300	12700	2540	5180	8330	11300	12700
HD 124580	14 15 38.69	-45 00 2.73	G0V	0.60	-4.92	3	218	561	1200	3270	9020	218	561	1200	3270	9020
* $\iota$ Vir	14 16 0.87	-06 00 1.96	F7III	0.52	-4.63	3	450	1070	2120	4850	10400	450	1070	2120	4850	10400
HD 125040	14 16 32.84	+20 07 18.66	F8V	0.50	-4.46	3	151	406	903	2690	8320	151	406	903	2690	8320
V636 Cen	14 16 57.91	-49 56 42.37	G0V	0.65	-4.25	3	24	88	253	1160	5580	24	88	253	1160	5580
HD 124584	14 17 4.77	-66 18 57.79	G0/IV	0.59	-4.84	3	1470	3140	5480	8780	12100	1470	3140	5480	8780	12100
HD 125184	14 18 0.73	-07 32 32.61	G5/6V	0.72	-4.99	3	2790	5620	8860	11600	12800	2790	5620	8860	11600	12800
HD 125276	14 19 0.90	-25 48 55.53	F9VFe-1.5CH-0.7	0.52	-4.57	3	317	782	1610	4010	9730	317	782	1610	4010	9730
HD 125612	14 20 53.52	-17 28 53.49	G3V	0.63	-4.81	3	1280	2760	4900	8250	12000	1280	2760	4900	8250	12000
HD 125906	14 22 38.66	-07 46 5.43	F7/G0V+F7/G0	0.70	-5.00	3	2830	5700	8950	11600	12800	2830	5700	8950	11600	12800

Table 2 continued

Table 2 (continued)

HD 126053	14 23 15.28	+01 14 29.64	G1.5V	0.64	-4.85	3	1570	3340	5780	9050	12200	1570	3340	5780	9050	12200
HD 125968	14 23 23.38	-27 49 21.66	G3/5V	0.66	-4.81	3	1290	2800	4960	8300	12000	1290	2800	4960	8300	12000
HD 126203	14 24 30.76	-14 47 26.44	F7V	0.56	-4.87	3	1740	3670	6270	9490	12300	1740	3670	6270	9490	12300
HD 125881	14 24 45.98	-63 42 23.64	G2V	0.59	-4.87	3	1720	3640	6220	9440	12300	1720	3640	6220	9440	12300
* tet Boo	14 25 11.80	+51 51 2.68	F7V	0.51	-4.47	3	156	416	923	2730	8370	156	416	923	2730	8370
HD 126532	14 25 17.38	+32 47 28.01	G0	0.85	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600
HD 126351	14 25 35.33	-30 51 49.60	G0V	0.57	-4.66	3	568	1320	2560	5490	10800	568	1320	2560	5490	10800
HD 126583	14 25 58.26	+13 25 59.75	G5	0.75	-4.91	3	2080	4320	7190	10400	12500	2080	4320	7190	10400	12500
HD 126653	14 27 45.25	-35 15 14.14	F8V	0.57	-4.85	3	1530	3270	5670	8950	12200	1530	3270	5670	8950	12200
HD 126831	14 28 29.80	-22 58 29.19	F6V	0.52	-4.76	3	964	2140	3920	7220	11600	964	2140	3920	7220	11600
HD 126961	14 28 31.14	+02 47 19.79	G0V	0.55	-4.81	3	1270	2750	4890	8230	12000	1270	2750	4890	8230	12000
HD 128642	14 29 22.31	+80 48 35.44	G5	0.77	-4.83	3	1440	3080	5400	8710	12100	1440	3080	5400	8710	12100
HD 126935	14 29 32.61	-37 02 22.33	G3V	0.63	-4.70	3	687	1570	2980	6080	11100	687	1570	2980	6080	11100
HD 127506	14 30 44.98	+35 27 13.43	K3.5V	0.78	-4.20	3	14	55	180	939	4980	14	55	180	939	4980
HD 127356	14 31 19.75	-15 38 19.75	G5V	0.72	-4.96	3	2520	5130	8270	11300	12700	2520	5130	8270	11300	12700
HD 127024	14 31 48.76	-64 17 1.87	G2V	0.64	-4.62	3	432	1030	2050	4750	10300	432	1030	2050	4750	10300
HD 127423	14 32 24.57	-37 49 2.49	G0V	0.57	-4.60	3	373	905	1830	4380	10000	373	905	1830	4380	10000
HD 127974	14 35 44.92	-45 37 6.28	G0/1V	0.58	-4.80	3	1220	2660	4740	8090	11900	1220	2660	4740	8090	11900
HD 128311	14 36 0.56	+09 44 47.45	K3V	0.98	-4.47	7	1,2,3					309	436	661	917	1220
HD 128429	14 36 59.80	-12 18 19.07	F6V	0.46	-4.44	3	129	352	799	2470	8010	129	352	799	2470	8010
HD 128356	14 37 4.89	-25 48 9.26	K2.5IV	0.69	-4.73	3	854	1910	3550	6790	11400	854	1910	3550	6790	11400
HD 128214	14 37 44.66	-57 27 27.44	G5IV	0.72	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600
HD 128020	14 37 46.26	-67 55 55.24	F8.5VFe-0.6	0.51	-4.69	3	673	1540	2930	6010	11100	673	1540	2930	6010	11100
EK Dra	14 39 0.21	+64 17 29.98	G1.5V	0.62	-4.11	204	1,2,3	5	26	111	707	4270	9	58	656	5470
HD 128582	14 39 10.85	-46 35 4.11	F8V	0.51	-4.83	3	1460	3110	5450	8750	12100	1460	3110	5450	8750	12100
HD 128787	14 39 40.95	-26 43 25.13	F5V	0.47	-4.31	3	41	136	357	1440	6220	41	136	357	1440	6220
HD 128760	14 40 12.69	-45 32 45.45	F8/G0V	0.57	-4.84	3	1470	3150	5500	8790	12100	1470	3150	5500	8790	12100
HD 128674	14 40 28.26	-57 01 46.40	G7V	0.67	-4.99	3	2790	5620	8850	11600	12800	2790	5620	8850	11600	12800
KU Lib	14 40 31.11	-16 12 33.45	G8Vr:	0.71	-4.43	3	121	333	762	2390	7890	121	333	762	2390	7890
HD 129191	14 41 16.18	-04 56 41.53	G6V	0.68	-4.97	3	2630	5330	8520	11400	12800	2630	5330	8520	11400	12800
HD 128400	14 41 52.46	-75 08 22.12	G6V	0.71	-4.52	3	224	574	1220	3320	9070	224	574	1220	3320	9070
HD 129471	14 43 21.77	-27 21 17.87	G6V	0.70	-4.86	3	1610	3410	5900	9150	12200	1610	3410	5900	9150	12200
HD 129814	14 44 11.69	+18 27 43.62	G5V	0.64	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400
HD 129060	14 44 14.14	-69 40 26.84	F7V	0.55	-4.37	3	74	221	536	1880	7090	74	221	536	1880	7090
HD 129679	14 44 16.82	-11 37 2.45	G3V	0.60	-4.41	3	98	279	653	2150	7530	98	279	653	2150	7530
GR Vir	14 45 20.26	-06 44 4.13	G2/3V	0.58	-4.27	3	29	102	284	1250	5790	29	102	284	1250	5790
HD 130087	14 45 56.79	+10 03 7.22	G2IV	0.61	-4.95	3	2460	5030	8150	11200	12700	2460	5030	8150	11200	12700
HD 129946	14 46 22.49	-33 45 58.18	G5V	0.71	-4.59	3	371	899	1820	4360	10000	371	899	1820	4360	10000
HD 130307	14 47 16.10	+02 42 11.61	K1V	0.89	-4.56	3	291	723	1500	3820	9560	291	723	1500	3820	9560
HD 130322	14 47 32.73	-00 16 53.31	K0V	0.78	-4.73	2	1,2,3	834	1870	3490	6710	834	1870	3490	6710	11400
HD 130102	14 48 25.13	-56 26 10.48	F7IV	0.54	-4.75	3	950	2110	3870	7170	11600	950	2110	3870	7170	11600
* h Boo	14 49 18.67	+46 06 58.34	F6IVs	0.47	-4.76	3	994	2200	4010	7320	11700	994	2200	4010	7320	11700
HD 130042	14 49 23.72	-67 14 9.49	K1V	0.84	-4.99	3	2740	5540	8760	11500	12800	2740	5540	8760	11500	12800
HD 130672	14 49 46.11	-09 12 9.14	F6V	0.52	-4.91	3	2080	4330	7210	10400	12500	2080	4330	7210	10400	12500
HD 130948	14 50 15.81	+23 54 42.63	F9IV-V	0.58	-4.43	106	1,2,3	120	332	759	2380	107	234	474	1030	3360
HD 131023	14 51 2.31	+09 43 25.21	K0V	0.76	-4.52	3	230	586	1250	3360	9110	230	586	1250	3360	9110
* ksi Boo B	14 51 23.04	+19 06 6.88	K5Ve	0.72	-3.73	3	1	10	69	443	1660	1	10	69	443	1660
* ksi Boo	14 51 23.38	+19 06 1.70	G7Ve+K5Ve	0.72	-4.31	3	41	136	357	1440	6210	41	136	357	1440	6210
* ksi Boo A	14 51 23.39	+19 06 1.64	G7Ve	0.72	-4.33	3	51	162	414	1580	6520	51	162	414	1580	6520

Table 2 continued

Table 2 (continued)

HD 131473	14 53 23.35	+15 42 18.59	F4IV+G1IV	0.57	-4.73	3	850	1910	3540	6780	11400	850	1910	3540	6780	11400						
DE Boo	14 53 23.77	+19 09 10.08	K0.5V	0.84	-4.41	3	99	282	659	2160	7550	99	282	659	2160	7550						
HD 131078	14 53 4.80	-46 38 14.33	G5V	0.70	-4.91	3	2040	4240	7080	10300	12500	2040	4240	7080	10300	12500						
HD 130940	14 54 10.93	-66 25 12.31	G0V	0.58	-4.63	3	463	1100	2170	4920	10400	463	1100	2170	4920	10400						
HD 132142	14 55 11.04	+53 40 49.25	K1V	0.79	-5.00	3	2830	5690	8940	11600	12800	2830	5690	8940	11600	12800						
HD 131588	14 55 16.35	-29 31 43.26	G1V	0.63	-4.76	3	989	2190	4000	7310	11600	989	2190	4000	7310	11600						
HD 132254	14 56 23.04	+49 37 42.42	F8-V	0.53	-4.95	3	2400	4920	8010	11100	12700	2400	4920	8010	11100	12700						
HD 131900	14 56 48.66	-20 29 23.95	G8V	0.75	-4.97	3	2570	5240	8400	11300	12700	2570	5240	8400	11300	12700						
HD 132307	14 58 10.88	+06 54 17.86	G5	0.78	-4.96	3	2500	5110	8240	11200	12700	2500	5110	8240	11200	12700						
HD 132173	14 58 30.52	-28 42 34.32	G0V	0.55	-4.41	3	101	285	666	2180	7580	101	285	666	2180	7580						
HD 132375	14 58 52.78	-04 59 21.31	F7V	0.51	-4.71	3	763	1730	3240	6410	11300	763	1730	3240	6410	11300						
HD 132425	14 58 55.35	+06 36 17.46	K0	0.83	-4.69	3	675	1550	2940	6020	11100	675	1550	2940	6020	11100						
HD 131923	14 58 8.80	-48 51 46.64	G4V	0.71	-4.95	3	2410	4940	8030	11100	12700	2410	4940	8030	11100	12700						
HD 132301	14 59 45.04	-43 48 40.81	F6V	0.48	-4.44	3	123	339	772	2410	7930	123	339	772	2410	7930						
HD 132756	15 00 35.00	+08 36 0.63	G0	0.69	-4.94	3	2310	4750	7780	10900	12600	2310	4750	7780	10900	12600						
HD 131664	15 00 6.08	-73 32 7.23	G3V	0.67	-4.85	3	1560	3330	5770	9030	12200	1560	3330	5770	9030	12200						
HD 132950	15 01 29.97	+15 52 7.99	K3+V	0.86	-4.30	3	40	131	347	1410	6160	40	131	347	1410	6160						
HD 132648	15 01 53.27	-47 00 26.90	G8.5V	0.72	-4.93	3	2300	4730	7760	10900	12600	2300	4730	7760	10900	12600						
HD 133033	15 02 1.95	+09 11 14.58	F8	0.56		55	4	1900	5530	10300	12600	516	1900	5530	10300	12600						
HD 133125	15 02 19.12	+19 23 26.14	G5	0.72	-4.91	3	2090	4340	7230	10400	12500	2090	4340	7230	10400	12500						
HD 133161	15 02 33.06	+16 03 18.29	G2V	0.60	-4.87	3	1740	3670	6270	9480	12300	1740	3670	6270	9480	12300						
HD 132996	15 03 18.15	-36 55 28.61	G3V	0.61	-4.90	3	2020	4200	7040	10200	12500	2020	4200	7040	10200	12500						
HD 133131A	15 03 35.45	-27 50 33.22	G2V	0.59	-4.88	3	1810	3790	6450	9660	12400	1810	3790	6450	9660	12400						
* i Boo	15 03 47.30	+47 39 14.62	G0Vn	0.65	-4.59	3	367	890	1800	4340	10000	367	890	1800	4340	10000						
HD 133460	15 03 49.29	+26 02 19.40	F8V	0.56	-4.77	3	1020	2240	4090	7400	11700	1020	2240	4090	7400	11700						
HD 133484	15 03 6.57	+44 38 40.19	F6IV	0.46	-4.62	3	445	1060	2100	4820	10400	445	1060	2100	4820	10400						
HD 133295	15 04 33.08	-28 18 0.63	F9VCH-0.4	0.57	-4.38	3	78	230	554	1930	7160	78	230	554	1930	7160						
HD 133469	15 05 33.91	-30 33 3.10	F5.5V	0.49	-4.40	3	92	264	622	2080	7420	92	264	622	2080	7420						
HD 134319	15 05 49.90	+64 02 49.94	G5V:	0.67	-4.27	137	3.4	29	103	285	1250	5790	30	123	338	2100	9100	34	94	165	291	777
HD 134044	15 06 35.15	+36 27 21.84	F8V	0.53	-4.83	3	1390	2980	5250	8570	12100	1390	2980	5250	8570	12100						
HD 134066	15 07 32.95	+09 13 33.72	G5	0.64		72	4	196	533	1860	6900	11900	196	533	1860	6900	11900					
HS Lnp	15 07 57.75	-45 34 45.85	G8V	0.73	-4.34	3	56	175	440	1650	6650	56	175	440	1650	6650						
HD 135143	15 08 30.37	+72 22 9.63	G0	0.60	-4.78	3	1070	2350	4260	7600	11800	1070	2350	4260	7600	11800						
HD 134353	15 08 51.97	+19 02 19.07	K0V	0.85	-4.81	3	1300	2810	4980	8320	12000	1300	2810	4980	8320	12000						
HD 134331	15 10 41.61	-43 43 47.54	G0+V	0.62	-4.80	3	1240	2690	4790	8140	11900	1240	2690	4790	8140	11900						
HD 134330	15 10 43.21	-43 43 0.89	G6V	0.72	-4.85	3	1610	3410	5890	9140	12200	1610	3410	5890	9140	12200						
EU Dra	15 10 49.79	+63 52 26.00	G0	0.72		43	4	288	586	1530	6640	11900	288	586	1530	6640	11900					
HD 133639	15 11 0.39	-73 52 11.27	G5V	0.68	-4.94	3	2320	4770	7810	10900	12600	2320	4770	7810	10900	12600						
HD 134664	15 12 10.35	-30 53 10.65	G1.5V	0.66	-4.92	3	2170	4490	7440	10600	12500	2170	4490	7440	10600	12500						
HD 134702	15 12 30.34	-35 55 8.19	G3V	0.65	-4.78	3	1090	2400	4330	7670	11800	1090	2400	4330	7670	11800						
OP Ser	15 13 3.28	+09 34 41.15	K0	1.08		76	4	44	136	249	327	384	44	136	249	327	384					
HD 134928	15 13 58.79	-41 27 46.82	K0	0.76	-4.81	3	1310	2840	5020	8360	12000	1310	2840	5020	8360	12000						
HD 134929	15 13 58.96	-41 27 30.03	G8/K0III	0.83	-4.96	3	2490	5090	8220	11200	12700	2490	5090	8220	11200	12700						
HD 135283	15 14 33.49	-08 12 44.97	G8IV	0.91		17	4	297	438	667	983	1310	297	438	667	983	1310					
HD 135599	15 15 59.17	+00 47 46.90	K0V	0.83	-4.50	1	2.3,4	190	496	1080	3040	8750	190	496	1080	3040	8750					
HD 135725	15 16 53.01	-08 17 8.03	G8V	0.75	-4.99	3	2740	5540	8760	11500	12800	2740	5540	8760	11500	12800						
HD 135309	15 16 6.76	-45 28 52.67	G2IV	0.64	-4.87	3	1710	3610	6180	9400	12300	1710	3610	6180	9400	12300						
HD 135724	15 16 8.37	+15 32 28.66	G5	0.62	-4.79	3	1190	2590	4630	7980	11900	1190	2590	4630	7980	11900						
HD 135625	15 17 48.41	-45 55 20.69	G3IV/V	0.62	-4.99	3	2750	5560	8790	11600	12800	2750	5560	8790	11600	12800						

Table 2 continued

Table 2 (continued)

HD 136118	15 18 55.47	-01 35 32.60	F7V	0.55	-4.83	3	1450	3100	5420	8730	12100	1450	3100	5420	8730	12100
* 5 Ser	15 19 18.80	+01 45 55.47	F8IV	0.50	-4.94	3	2370	4860	7940	11000	12700	2370	4860	7940	11000	12700
HD 136580	15 20 2.32	+40 59 3.17	F7V	0.51	-4.86	3	1060	3520	6050	9280	12300	1660	3520	6050	9280	12300
HD 136654	15 20 50.08	+31 28 48.39	F5	0.53	-4.86	3	1610	3410	5890	9140	12200	1610	3410	5890	9140	12200
HD 136544	15 21 32.74	-06 49 35.77	F6V	0.47	-4.86	3	1670	3520	6060	9290	12300	1670	3520	6060	9290	12300
* mu.01 Lup	15 21 48.15	-48 19 3.46	G3/5V	0.64	-4.96	3	2560	5210	8370	11300	12700	2560	5210	8370	11300	12700
HD 136466	15 22 36.47	-47 55 15.77	G8VFe-1.2CH-1	0.66	-4.94	3	2390	4900	7990	11100	12700	2390	4900	7990	11100	12700
HD 136923	15 22 46.83	+18 55 8.26	G9V	0.80	-4.77	3	1020	2250	4090	7410	11700	1020	2250	4090	7410	11700
HD 136925	15 22 52.07	+13 21 59.14	G0	0.66	-4.95	3	2470	5040	8160	11200	12700	2470	5040	8160	11200	12700
* mu.01 Lup	15 22 8.27	-47 55 40.05	F6III-IV	0.52	-4.69	3	679	1550	2950	6040	11100	679	1550	2950	6040	11100
HD 136762	15 23 32.77	-34 44 44.23	F8/G0V	0.62	-4.61	3	409	981	1960	4600	10200	409	981	1960	4600	10200
* mu.02 Boo	15 24 30.87	+37 20 50.28	G0V	0.59	-4.56	3	303	751	1550	3910	9650	303	751	1550	3910	9650
HD 137664	15 25 29.44	+45 56 51.72	G5	0.61	-4.83	3	1400	3010	5280	8610	12100	1400	3010	5280	8610	12100
HD 137510	15 25 53.27	+19 28 50.53	G0IV-V	0.62	-4.73	3	845	1890	3520	6750	11400	845	1890	3520	6750	11400
HD 137629	15 25 8.00	+47 03 38.93	G5	0.61	-4.88	3	1820	3830	6500	9710	12400	1820	3830	6500	9710	12400
HD 137214	15 26 15.26	-42 51 44.27	G0V	0.59	-4.85	3	2430	4970	8070	11100	12700	2430	4970	8070	11100	12700
HD 137631	15 27 30.27	-10 57 45.16	F8V	0.60	-4.90	3	2000	4160	6970	10200	12500	2000	4160	6970	10200	12500
HD 138004	15 27 40.35	+42 52 52.67	G2III	0.68	-4.77	3	1060	2330	4230	7560	11700	1060	2330	4230	7560	11700
HD 137763	15 28 9.62	-09 20 52.76	G9V	0.80	-4.98	3	2680	5420	8620	11500	12800	2680	5420	8620	11500	12800
HD 139813	15 29 23.59	+80 27 0.97	G9V	0.79	-4.40	11.3	88	255	605	2040	7360	34	127	222	357	841
HD 138525	15 31 22.31	+36 36 59.80	F8IV	0.50	-4.54	3	265	665	1390	3630	9390	265	665	1390	3630	9390
BD-19 4128B	15 31 42.62	-20 09 51.80	F0	0.51	-4.28	3	32	110	300	1290	5890	32	110	300	1290	5890
HD 138573	15 32 43.65	+10 58 5.88	G5IV-V	0.66	-4.94	3	2310	4760	7800	10900	12600	2310	4760	7800	10900	12600
HD 138549	15 33 53.56	-31 01 8.58	G8IV-V	0.72	-4.92	3	2200	4540	7510	10700	12500	2200	4540	7510	10700	12500
HD 138600	15 33 54.79	-25 06 37.81	G0/IV	0.58	-4.88	3	1810	3810	6480	9680	12400	1810	3810	6480	9680	12400
HD 139324	15 36 12.66	+35 42 19.42	G5	0.63	-4.91	3	2110	4380	7280	10500	12500	2110	4380	7280	10500	12500
CCDM J15375-3132AB	15 37 27.19	-31 31 36.60	G5V	0.63	-4.69	3	652	1500	2860	5910	11000	652	1500	2860	5910	11000
HD 139457	15 37 59.21	+10 14 23.56	F6	0.53	-4.91	3	2100	4350	7240	10400	12500	2100	4350	7240	10400	12500
HD 139084	15 38 57.56	-57 42 27.30	K0V	0.81	-4.16	3.0	9	39	142	815	4610	3	17	58	172	366
HD 139907	15 39 3.19	+43 51 59.44	G5	0.66	-4.88	3	1840	3860	6540	9740	12400	1840	3860	6540	9740	12400
HD 139211	15 39 56.54	-59 54 30.01	F6IV	0.51	-4.85	3	1530	3260	5670	8950	12200	1530	3260	5670	8950	12200
HD 140296	15 40 22.87	+54 57 34.88	G5	0.60	-4.56	3	302	747	1540	3900	9630	302	747	1540	3900	9630
HD 139879	15 40 55.36	-08 59 54.84	G3V	0.62	-4.95	3	2470	5040	8160	11200	12700	2470	5040	8160	11200	12700
HD 140156	15 41 11.56	+29 51 24.02	G0	0.59	-4.91	3	1080	2370	4290	7630	11800	1080	2370	4290	7630	11800
HD 140487	15 41 47.48	+49 26 43.07	G5	0.61	-4.92	9	4					1330	4110	8260	11600	12800
* psi Ser	15 44 1.82	+02 30 54.60	G2.5V	0.68	-4.78	121	4					60	211	1350	6760	11900
BD+24 2917	15 45 4.11	+24 21 33.35	G0	0.66	-4.78	138	4					30	122	358	2390	9520
KW Lup	15 45 47.60	-30 20 55.75	K2V	0.97	-4.44	430	1					2	9	35	137	242
HD 140913	15 45 7.45	+28 28 11.74	G0V	0.61	-4.93	3	122	337	769	2410	7910	122	337	769	2410	7910
HD 141186	15 46 24.50	+36 26 45.61	F5	0.48	-4.93	3	2250	4650	7650	10800	12600	2250	4650	7650	10800	12600
* lam Ser	15 46 26.61	+07 21 11.04	G0-V	0.61	-4.89	3	1900	3970	6700	9900	12400	1900	3970	6700	9900	12400
HD 140690	15 46 43.04	-43 14 9.91	G5V	0.66	-4.85	3	1580	3360	5810	9070	12200	1580	3360	5810	9070	12200
HD 140408	15 47 0.19	-62 47 47.59	F6V	0.50	-4.59	3	369	895	1810	4350	10000	369	895	1810	4350	10000
HD 140785	15 47 12.86	-42 12 17.00	G5V	0.66	-4.98	3	2670	5420	8620	11500	12800	2670	5420	8620	11500	12800
HD 141103	15 47 17.09	-00 16 11.68	F6V	0.51	-4.92	3	2170	4490	7440	10600	12500	2170	4490	7440	10600	12500
HD 141126	15 47 2.36	+12 20 47.98	G0	0.57	-4.92	60	4					433	1620	5050	10100	12600
HD 140901	15 47 29.10	-37 54 58.72	G7IV	0.71	-4.79	3	1150	2510	4510	7860	11800	1150	2510	4510	7860	11800
HD 140643	15 48 35.75	-65 14 0.16	K2IV-V	0.90	-4.92	3	2170	4490	7430	10600	12500	2170	4490	7430	10600	12500
HD 141272	15 48 9.46	+01 34 18.27	K0V	0.81	-4.42	3	1.2,3	108	304	703	2260	108	304	703	2260	7700

Table 2 continued

Table 2 (continued)

HD 141382	15 49 51.27	-27 52 54.77	G1V	0.59	-4.92	3	2140	4440	7370	10500	12500	2140	4440	7370	10500	12500						
HD 141514	15 50 0.61	-14 03 41.15	F8V	0.59	-4.93	3	2220	4580	7550	10700	12600	2220	4580	7550	10700	12600						
HD 141599	15 51 5.23	-30 05 11.16	G6V	0.76	-4.82	3	1370	2940	5180	8510	12100	1370	2940	5180	8510	12100						
KY Lib	15 51 56.65	-09 28 9.34	K0Vke	0.88	-4.50	3	194	505	1090	3070	8790	194	505	1090	3070	8790						
HD 141937	15 52 17.55	-18 26 9.79	G1V	0.63	-4.80	3	1240	2690	4800	8140	11900	1240	2690	4800	8140	11900						
HD 142127	15 52 22.23	+13 24 20.88	G5	0.58		31						988	3230	7320	11200	12700						
HD 142072	15 52 33.75	-01 54 22.78	G6V	0.67	-4.48	77	3,4	174	458	1000	2890	8580	134	338	832	3600	10300	193	343	573	1030	2340
* chi Her	15 52 40.54	+42 27 5.45	F8VFe-2Hdel-1	0.57	-4.93	3	2300	4730	7770	10900	12600	2300	4730	7770	10900	12600						
* 39 Ser	15 53 12.10	+13 11 47.84	G1VFe-1	0.60	-4.80	3	1240	2680	4780	8130	11900	1240	2680	4780	8130	11900						
HD 142229	15 53 20.01	+04 15 11.70	G5V	0.62	-4.38	103	3,4	76	225	544	1900	7120	94	284	1380	6600	11800	94	189	339	665	2030
HD 142626	15 53 4.48	+53 52 15.70	K0	0.83	-4.72	3	799	1800	3370	6570	11300	799	1800	3370	6570	11300						
HD 143665	15 54 48.50	-65 54 4.37	G2V	0.62	-4.67	3	607	1400	2700	5690	10900	607	1400	2700	5690	10900						
HD 142137	15 55 55.50	-58 41 1.39	G0V	0.63	-4.99	3	2790	5620	8850	11600	12800	2790	5620	8850	11600	12800						
* gam Ser	15 56 27.18	+15 39 41.82	F6V	0.49	-4.75	3	944	2100	3850	7140	11600	944	2100	3850	7140	11600						
HD 142667	15 56 37.58	-24 20 9.72	F3/5V	0.57	-4.71	3	731	1660	3130	6280	11200	731	1660	3130	6280	11200						
HD 143174	15 57 37.09	+32 24 32.51	G0	0.66	-4.64	3	479	1130	2230	5020	10500	479	1130	2230	5020	10500						
HD 143665	15 57 40.16	+65 23 48.06	G5	0.86	-4.80	3	1250	2710	4820	8160	12000	1250	2710	4820	8160	12000						
HD 142415	15 57 40.79	-60 12 0.92	G1V	0.62	-4.66	3	565	1320	2550	5480	10800	565	1320	2550	5480	10800						
HD 142943	15 57 57.77	-17 05 23.98	F6V	0.52	-4.70	3	686	1570	2980	6070	11100	686	1570	2980	6070	11100						
HD 143291	15 58 32.03	+27 44 23.96	G9V	0.76	-4.99	3	2760	5560	8790	11600	12800	2760	5560	8790	11600	12800						
HD 142945	15 58 52.12	-38 59 51.40	G7VFe-2,2CH-1.5	0.58	-4.75	3	911	2030	3740	7020	11500	911	2030	3740	7020	11500						
HD 143114	15 59 38.27	-29 37 57.21	G0+V	0.61	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600						
HD 143098	15 59 47.76	-35 50 43.56	G5V	0.69	-4.53	3	233	595	1260	3390	9140	233	595	1260	3390	9140						
HD 143298	15 59 53.45	-07 53 16.88	G8V	0.91		15						304	440	684	1000	1350	304	440	684	1000	1350	
* 49 Lib	16 00 19.61	-16 32 0.55	F8V	0.52	-4.67	3	605	1400	2690	5690	10900	605	1400	2690	5690	10900						
HD 143332	16 00 2.65	-07 07 21.68	F5V	0.54	-4.83	3	1430	3060	5370	8680	12100	1430	3060	5370	8680	12100						
HD 143215	16 00 31.32	-36 05 16.62	G1V+(G)	0.56	-4.38	3	75	223	540	1890	7100	75	223	540	1890	7100						
HD 142921	16 00 37.18	-61 18 14.14	G2V	0.62	-4.82	3	1380	2960	5210	8540	12100	1380	2960	5210	8540	12100						
* rho CrB	16 01 2.66	+33 18 12.64	G0+VaFe-1	0.61	-4.96	3	2550	5200	8360	11300	12700	2550	5200	8360	11300	12700						
HD 142033	16 01 36.87	-78 42 43.22	G3V	0.66	-4.32	3	45	145	378	1490	6330	45	145	378	1490	6330						
HD 143337	16 01 4.93	-32 41 43.96	G8V	0.64	-4.86	3	1620	3440	5940	9180	12300	1620	3440	5940	9180	12300						
* tet Dra	16 01 53.35	+58 33 54.91	F9V	0.52	-4.63	3	471	1120	2200	4970	10500	471	1120	2200	4970	10500						
HD 143463	16 02 10.35	-42 42 0.87	F6V	0.50	-4.61	3	401	964	1930	4550	10200	401	964	1930	4550	10200						
HD 143809	16 02 22.42	+03 39 7.20	G0V	0.55		23						1030	3630	7890	11400	12800	1030	3630	7890	11400	12800	
HD 143306	16 02 28.44	-56 51 16.06	F8V	0.53	-4.75	3	911	2030	3740	7020	11500	911	2030	3740	7020	11500						
* ksi Sco A	16 04 22.16	-11 22 23.54	F4(V)	0.48	-4.14	3	7	34	131	777	4490	7	34	131	777	4490						
HD 144087	16 04 25.93	-11 26 57.78	K1(V)	0.75	-4.65	3	509	1200	2340	5180	10600	509	1200	2340	5180	10600						
HD 144088	16 04 26.72	-11 26 59.55	K1(V)	0.85	-4.64	3	506	1190	2330	5170	10600	506	1190	2330	5170	10600						
HD 144579	16 04 56.79	+39 09 23.43	G8V	0.73	-4.96	3	2540	5180	8330	11300	12700	2540	5180	8330	11300	12700						
HD 143846	16 04 9.53	-37 18 26.65	G0V	0.60	-4.78	3	1090	2380	4310	7640	11800	1090	2380	4310	7640	11800						
HD 144179	16 05 39.17	-32 51 44.64	K0V	0.82	-4.92	3	2160	4470	7400	10600	12500	2160	4470	7400	10600	12500						
HD 144362	16 05 44.56	-06 17 28.01	F3V	0.48	-4.01	3	2	11	74	559	3480	2	11	74	559	3480						
HD 144515	16 05 53.47	+10 41 6.75	G8V	0.66	-4.35	3	58	181	452	1680	6710	58	181	452	1680	6710						
HD 144550	16 07 34.40	-31 33 8.80	G5V	0.68	-4.96	3	2540	5180	8330	11300	12700	2540	5180	8330	11300	12700						
HD 144503	16 07 44.33	-38 02 24.86	G5V	0.72	-4.85	3	1540	3270	5680	8960	12200	1540	3270	5680	8960	12200						
HD 145224	16 08 26.93	+33 43 59.10	G5	0.64	-4.63	3	466	1110	2180	4940	10400	466	1110	2180	4940	10400						
HD 144766	16 08 7.12	-18 14 35.29	F9V	0.56	-4.84	3	1500	3200	5570	8860	12200	1500	3200	5570	8860	12200						
HD 144009	16 09 13.46	-71 04 10.59	G8IV-VFe+0.5	0.71	-4.84	3	1500	3200	5570	8860	12200	1500	3200	5570	8860	12200						
HD 144848	16 09 17.03	-35 29 55.24	G5V	0.65	-4.97	3	2640	5360	8540	11400	12800	2640	5360	8540	11400	12800						

Table 2 continued



Table 2 (continued)

HD 145435	16 09 17.49	+41 05 42.72	F5	0.53	-4.88	3	1840	3870	6560	9760	12400	1840	3870	6560	9760	12400						
HD 145229	16 09 26.63	+11 34 28.05	G0	0.60	-4.44	71	3,4	128	351	797	2470	8000	251	843	3220	8760	12300	186	378	701	1490	4340
PX Ser	16 09 38.06	+05 52 37.39	K2	0.99		16	4						272	383	594	879	1180	272	383	594	879	1180
HD 144988	16 10 0.56	-35 38 33.20	G1/2V	0.60	-4.97	3	2620	5310	8490	11400	12800							2620	5310	8490	11400	12800
HD 144899	16 10 17.45	-47 54 51.48	G2V	0.66	-5.00	3	2820	5680	8930	11600	12800							2820	5680	8930	11600	12800
HD 145158	16 11 18.79	-45 20 0.35	F6V	0.48	-4.63	3	472	1120	2200	4980	10500							472	1120	2200	4980	10500
HD 145377	16 11 36.45	-27 04 41.43	G3V	0.62	-4.65	3	516	1210	2370	5220	10600							516	1210	2370	5220	10600
BD+47 2312	16 11 8.44	+47 32 32.39	G5	0.72	-4.90	3	1980	4120	6920	10100	12400							1980	4120	6920	10100	12400
HD 145518	16 12 2.45	-18 13 57.44	G0.5V	0.62	-4.68	3	627	1450	2770	5790	11000							627	1450	2770	5790	11000
* 49 Ser A	16 13 18.45	+13 31 36.85	G9V	0.82	-4.99	3	2790	5620	8860	11600	12800							2790	5620	8860	11600	12800
HD 145523	16 14 11.26	-54 10 17.05	G2V	0.58	-4.29	3	34	116	315	1330	5970							34	116	315	1330	5970
HD 145825	16 14 11.91	-31 39 49.21	G3V	0.65	-4.71	3	765	1730	3250	6420	11300							765	1730	3250	6420	11300
* sig CrB B	16 14 40.39	+33 51 27.10	G1V	0.61	-4.52	3	224	574	1220	3320	9070							224	574	1220	3320	9070
* sig CrB	16 14 40.86	+33 51 30.95	F6V+G0V	0.51	-4.01	3	2	11	74	560	3480							2	11	74	560	3480
HD 147231	16 14 50.25	+70 55 46.80	G5V	0.69	-4.95	3	2420	4950	8040	11100	12700							2420	4950	8040	11100	12700
HD 146070	16 15 19.09	-27 12 36.94	G1V	0.61	-4.72	3	789	1780	3330	6530	11300							789	1780	3330	6530	11300
* 18 Sco	16 15 37.27	-08 22 9.98	G2Va	0.65	-4.93	3	2280	4700	7720	10900	12600							2280	4700	7720	10900	12600
HD 145666	16 15 4.16	-56 22 28.35	G2V	0.60	-4.80	3	1230	2670	4760	8110	11900							1230	2670	4760	8110	11900
HD 146434	16 16 36.19	-10 11 22.79	G5V	0.70	-4.95	3	2400	4920	8020	11100	12700							2400	4920	8020	11100	12700
HD 146124	16 16 53.10	-49 51 24.31	G8IV-V	0.76	-4.67	3	600	1390	2670	5660	10900							600	1390	2670	5660	10900
HD 145927	16 16 6.42	-52 48 52.37	G3V	0.65	-4.82	3	1380	2960	5210	8540	12100							1380	2960	5210	8540	12100
HD 146875	16 18 16.49	+07 19 57.82	G5	0.75		92	4					47	191	304	604	1970	47	191	304	604	1970	
BD+33 2709	16 18 26.78	+33 02 29.40	G5	0.75		3	4					988	2630	6390	10600	12600	988	2630	6390	10600	12600	
HD 147044	16 18 5.88	+34 28 57.95	G0V	0.63	-4.88	3	1780	3750	6380	9590	12300							1780	3750	6380	9590	12300
HD 146851	16 19 22.54	-25 45 38.62	G8V	0.73	-4.73	3	819	1840	3430	6650	11400							819	1840	3430	6650	11400
HD 147062	16 19 25.91	+05 32 17.22	G0	0.63	-4.86	3	1650	3500	6020	9260	12300							1650	3500	6020	9260	12300
HD 146897	16 19 29.24	-21 24 13.27	F2/3V	0.47		66	2					39	137	301	458	647	39	137	301	458	647	
HD 146835	16 19 31.54	-30 54 6.69	F9-V	0.58	-4.67	3	604	1400	2690	5680	10900							604	1400	2690	5680	10900
HD 146817	16 19 59.59	-40 49 5.66	G3/5V	0.67	-4.96	3	2520	5130	8270	11300	12700							2520	5130	8270	11300	12700
HD 146775	16 19 8.43	-28 17 37.99	G5V	0.62	-4.83	3	1460	3120	5450	8750	12100							1460	3120	5450	8750	12100
HD 147506	16 20 36.36	+41 02 53.11	F8V	0.46	-4.64	3	485	1150	2250	5050	10500							485	1150	2250	5050	10500
HD 147127	16 22 34.29	-53 54 15.35	G8VFe-1.6CH-1	0.69	-4.96	3	2500	5100	8240	11200	12700							2500	5100	8240	11200	12700
HD 147018	16 23 0.15	-61 41 19.56	G8/K0V	0.76	-4.80	3	1200	2610	4660	8010	11900							1200	2610	4660	8010	11900
HD 148238	16 23 20.92	+58 42 50.28	G5	0.65	-4.92	3	2180	4510	7470	10600	12500							2180	4510	7470	10600	12500
HD 147750	16 23 6.06	+17 28 7.66	G0	0.72	-4.90	3	1980	4120	6920	10100	12400							1980	4120	6920	10100	12400
HD 147513	16 24 1.29	-39 11 34.73	G5V	0.62	-4.54	3	266	668	1400	3640	9400							266	668	1400	3640	9400
HD 144167	16 24 28.30	-84 27 20.39	G2V	0.65	-4.78	3	1130	2460	4430	7780	11800							1130	2460	4430	7780	11800
HD 148941	16 25 29.22	+71 23 4.46	F8	0.59		89	4					151	539	2660	8450	12300	151	539	2660	8450	12300	
HD 148164	16 25 44.53	+11 55 8.54	F8	0.59	-4.91	3	2060	4280	7140	10300	12500							2060	4280	7140	10300	12500
HD 148300	16 27 28.91	-08 34 19.16	K0V	0.77		166	4					17	73	147	266	758	17	73	147	266	758	
HD 148156	16 28 17.28	-46 19 3.46	G0/2V	0.56	-4.87	3	1710	3610	6190	9410	12300							1710	3610	6190	9410	12300
* zet TrA	16 28 28.14	-70 05 3.82	F9V	0.56	-4.52	3	218	560	1200	3270	9010							218	560	1200	3270	9010
HD 148290	16 28 55.90	-43 27 30.25	F5V	0.50	-4.90	3	1940	4050	6820	10000	12400							1940	4050	6820	10000	12400
V897 Her	16 29 46.71	+07 44 56.11	K0	1.13		85	4					33	99	177	230	295	33	99	177	230	295	
HD 148816	16 30 28.46	+04 10 41.60	F7V	0.53	-4.82	3	1380	2980	5230	8560	12100							1380	2980	5230	8560	12100
HD 149026	16 30 29.62	+38 20 50.31	G0IV	0.61	-4.93	3	2230	4600	7580	10700	12600							2230	4600	7580	10700	12600
HD 150706	16 31 17.58	+79 47 23.20	G0	0.61	-4.49	3	178	467	1020	2930	8620							178	467	1020	2930	8620
HD 234314	16 32 31.72	+50 11 3.30	K0	0.74	-4.98	3	2670	5410	8610	11500	12800							2670	5410	8610	11500	12800
HD 149143	16 32 51.05	+02 05 5.38	G3V	0.68	-4.90	3	1990	4140	6950	10100	12500							1990	4140	6950	10100	12500

Table 2 continued

Table 2 (continued)

HD 149162	16 32 51.63	+03 14 45.64	K0Ve	0.89	-4.71	0	3, 4	747	1690	3190	6340	11200	747	1690	3190	6340	11200
HD 148628	16 33 2.14	-60 54 10.10	F8/G0V	0.54	-4.98	3	2720	5500	8710	11500	12800	2720	5500	8710	11500	12800	
HD 149200	16 33 23.38	-04 15 43.13	F0V	0.53	-4.88	3	1800	3780	6430	9630	12400	1800	3780	6430	9630	12400	
HD 148587	16 33 5.60	-63 50 32.09	G1V	0.57	-4.91	3	2090	4340	7230	10400	12500	2090	4340	7230	10400	12500	
HD 149560	16 34 50.95	+21 44 33.17	K0	0.69	-4.91	48						288	651	1750	6210	11700	
HD 149750	16 35 14.64	+37 01 19.66	G5	0.67	-4.94	3	2320	4770	7810	10900	12600	2320	4770	7810	10900	12600	
HD 149435	16 35 29.67	-18 40 20.49	G9IV-V	0.75	-4.84	3	1500	3210	5590	8880	12200	1500	3210	5590	8880	12200	
HD 149396	16 35 55.64	-37 21 47.02	G5IV/V	0.70	-4.63	3	468	1110	2190	4950	10400	468	1110	2190	4950	10400	
* 12 Oph	16 36 21.45	-02 19 28.51	K1V	0.81	-4.62	3	424	1010	2020	4690	10300	424	1010	2020	4690	10300	
HD 149652	16 36 3.03	+01 22 53.00	F5/6V	0.52	-4.87	3	1740	3670	6270	9490	12300	1740	3670	6270	9490	12300	
HD 149079	16 36 51.41	-65 35 12.22	F8V	0.58	-4.99	3	2740	5530	8750	11500	12800	2740	5530	8750	11500	12800	
HD 149194	16 37 4.06	-62 14 25.11	F8V	0.56	-4.91	3	2080	4320	7200	10400	12500	2080	4320	7200	10400	12500	
HD 149806	16 37 8.43	+00 15 15.63	K0V	0.83	-4.88	3	1770	3740	6370	9580	12300	1770	3740	6370	9580	12300	
HD 150122	16 38 29.98	+12 39 44.58	G0	0.62	-4.84	3	1520	3240	5630	8920	12200	1520	3240	5630	8920	12200	
HD 149499	16 38 31.10	-57 28 11.33	K0V	0.70	-3.80	3	1	10	71	490	2140	1	10	71	490	2140	
HD 149894	16 38 46.76	-29 53 33.07	G1V	0.58	-4.82	3	1330	2880	5080	8420	12000	1330	2880	5080	8420	12000	
HD 150237	16 39 14.45	+15 03 38.42	G5	0.62	-4.28	75	3, 4	30	106	291	1270	5830	196	573	2180	7550	12000
HD 149981	16 39 20.73	-30 27 52.86	G2/3V	0.61	-4.95	3	2440	4990	8090	11200	12700	2440	4990	8090	11200	12700	
HD 149612	16 39 4.14	-58 15 29.53	G5VFe-1.2CH-0.9	0.62	-4.80	3	1230	2670	4760	8110	11900	1230	2670	4760	8110	11900	
HD 149813	16 39 46.95	-51 59 39.17	G3V	0.70	-4.62	3	436	1040	2070	4770	10300	436	1040	2070	4770	10300	
HD 149837	16 40 50.48	-60 26 47.20	F6V	0.49	-4.44	3	128	350	794	2460	7990	128	350	794	2460	7990	
HD 150554	16 40 56.44	+21 56 53.32	F8	0.59	-4.72	3	800	1800	3370	6570	11300	800	1800	3370	6570	11300	
HD 150248	16 41 49.79	-45 22 7.51	G3V+?	0.65	-4.83	3	1390	2990	5260	8580	12100	1390	2990	5260	8580	12100	
HD 150433	16 41 8.21	-02 51 26.20	G5V	0.63	-4.90	3	1990	4150	6970	10200	12500	1990	4150	6970	10200	12500	
HD 150711	16 42 22.39	+13 02 28.23	G5	0.58	-4.90	59	4					409	1430	4590	9740	12500	
HD 151044	16 42 27.81	+49 56 11.18	F8V	0.54	-4.84	3	1500	3200	5580	8870	12200	1500	3200	5580	8870	12200	
HD 150828A	16 42 34.81	+23 40 2.03	G5IV	0.72	-4.84	33	4					435	980	3420	9240	12400	
HD 150686	16 43 1.30	-08 57 4.55	F7V	0.55	-4.72	22	4					1040	3680	7940	11500	12800	
HD 150933	16 43 30.10	+20 42 58.01	G2V	0.57	-4.83	3	1410	3030	5320	8630	12100	1410	3030	5320	8630	12100	
HD 150698	16 43 51.43	-26 48 32.20	G2/3V	0.67	-4.72	3	793	1790	3340	6540	11300	793	1790	3340	6540	11300	
HD 150936	16 44 26.68	-05 41 14.00	G6V	0.74	-4.90	3	1960	4080	6870	10100	12400	1960	4080	6870	10100	12400	
HD 151329	16 45 43.83	+19 38 33.30	G0	0.68	-4.97	3	2610	5300	8480	11400	12700	2610	5300	8480	11400	12700	
HD 151450	16 48 1.84	-15 57 50.22	G2V	0.57	-4.90	3	1960	4080	6870	10100	12400	1960	4080	6870	10100	12400	
HD 151877	16 48 35.51	+37 00 48.12	K1	0.82	-4.90	3	1950	4070	6840	10000	12400	1950	4070	6840	10000	12400	
HD 152125	16 48 36.08	+55 07 45.71	G5	0.70	-4.88	3	1790	3770	6410	9620	12400	1790	3770	6410	9620	12400	
* 20 Oph	16 49 50.01	-10 46 59.20	F7V	0.47	-4.10	3	5	24	106	691	4220	5	24	106	691	4220	
HD 151598	16 50 46.90	-49 12 39.39	G3V	0.67	-4.38	3	78	231	556	1930	7170	78	231	556	1930	7170	
HD 150761	16 51 10.56	-75 38 3.37	G0V	0.56	-4.96	3	2480	5070	8200	11200	12700	2480	5070	8200	11200	12700	
HD 152140	16 51 29.14	-02 55 33.70	KIIIV/V	1.05	-4.97	98	4					40	127	232	313	367	
HD 151928	16 51 33.37	-29 24 34.17	G2V	0.59	-4.97	3	2630	5340	8530	11400	12800	2630	5340	8530	11400	12800	
HD 152446	16 52 41.14	+18 03 43.68	F8IV	0.53	-4.79	3	1170	2550	4570	7910	11900	1170	2550	4570	7910	11900	
HD 152391	16 52 58.80	-00 01 35.12	G8.5Vk:	0.75	-4.46	3	145	391	875	2630	8240	145	391	875	2630	8240	
HD 152079	16 53 29.74	-46 19 58.64	G6V	0.71	-4.96	3	2540	5170	8320	11300	12700	2540	5170	8320	11300	12700	
BD+73 750	16 53 36.10	+73 44 22.97	K0	0.67	-4.96	91	4					94	260	663	3310	10200	
HD 152555	16 54 8.14	-04 20 24.66	F8/G0V	0.59	-4.32	105	3, 4	45	145	377	1490	6330	96	364	2320	8200	12200
* h Dra	16 56 1.69	+65 08 5.26	F8V	0.48	-4.57	3	312	771	1590	3980	9700	312	771	1590	3980	9700	
HD 152138	16 56 10.04	-65 18 37.82	F7IV/V	0.53	-4.65	3	508	1190	2340	5180	10600	508	1190	2340	5180	10600	
HD 153557	16 57 53.20	+47 21 59.64	K3V	0.98	-4.49	3	3, 4					325	459	689	941	1260	
HD 152322	16 57 6.06	-64 11 19.91	G3V	0.61	-4.75	3	940	2090	3840	7130	11600	940	2090	3840	7130	11600	

Table 2 continued



Table 2 (continued)

* w Her	17 20 39.57	+32 28 3.88	G0V	0.62	-4.94	3	2320	4780	7830	10900	12600	2320	4780	7830	10900	12600
BD+62 1542	17 20 5.54	+62 06 23.66	F8	0.64		11						1340	3700	7750	11400	12800
BD+32 2899	17 21 11.62	+32 32 9.68	G0	0.61		82						165	497	2080	7550	12100
HD 156643	17 21 19.37	-51 07 22.12	G1V	0.63	-4.87	4						1730	3650	6230	9450	12300
HD 155918	17 22 12.65	-75 20 53.34	G2VFe-1.0CH-0.6	0.61	-4.80	3	1730	3650	6230	9450	12300					
HD 157075	17 22 24.56	-30 12 15.02	G0V	0.54	-4.78	3	1200	2600	4650	8000	11900					
HD 157466	17 22 27.65	+24 52 45.93	F8V	0.53	-4.79	3	1140	2490	4470	7810	11800					
HD 157347	17 22 51.29	-02 23 17.44	G3V	0.68	-4.92	3	1100	2420	4370	7700	11800					
HD 157443	17 22 56.06	+09 21 53.84	K0	0.92		51	2140	4420	7340	10500	12500					
HD 157338	17 24 8.74	-34 47 54.44	F9.5V	0.59	-4.94	4	79	229	315	410	697	2360	4840	7910	11000	12700
HD 158633	17 25 0.10	+67 18 24.15	K0	0.76	-4.94	3	2380	4890	7970	11100	12700	2380	4890	7970	11100	12700
HD 158259	17 25 24.06	+52 47 26.47	G0	0.62	-4.75	3	938	2080	3830	7120	11600	938	2080	3830	7120	11600
HD 158222	17 25 8.32	+53 07 57.90	G5V	0.67	-4.86	3	1630	3460	5970	9210	12300	1630	3460	5970	9210	12300
HD 157750	17 26 34.86	-32 58 10.83	G3V	0.67	-4.54	3	255	642	1350	3560	9310	255	642	1350	3560	9310
HD 157968	17 27 2.15	-12 30 44.95	F7V	0.52	-4.67	3	582	1350	2610	5570	10800	582	1350	2610	5570	10800
HD 157830	17 27 21.95	-38 03 41.23	G6V	0.69	-4.86	3	1640	3470	5980	9220	12300	1640	3470	5980	9220	12300
HD 158210	17 27 6.67	+21 43 10.50	G0	0.59	-4.63	3	450	1070	2120	4850	10400	450	1070	2120	4850	10400
GR Dra	17 28 39.44	+59 02 7.25	G0	0.61		93						126	386	1830	7350	12000
BD+29 3029	17 29 20.07	+29 23 30.91	K5V	0.89	-4.38	3	77	228	551	1920	7150	77	228	551	1920	7150
HD 158198	17 29 25.60	-33 45 38.07	G5V	0.68	-4.46	3	149	401	893	2670	8290	149	401	893	2670	8290
CD-54 7336	17 29 55.08	-54 15 48.65	K1V	0.77		360	2	15	68	196	551	2	15	68	196	551
HD 159062	17 30 16.43	+47 24 7.90	G9V-Fe-0.8	0.74	-4.97	3	2610	5300	8480	11400	12700	2610	5300	8480	11400	12700
HD 158789	17 30 18.63	+22 02 7.78	K0	0.80		85						54	185	281	450	1030
HD 158614	17 30 23.80	-01 03 46.49	G9-IV-VHdel1	0.72	-4.98	3	2680	5430	8640	11500	12800	2680	5430	8640	11500	12800
HD 158469	17 31 19.76	-39 09 55.12	F8/G2V	0.56	-4.96	3	2490	5080	8200	11200	12700	2490	5080	8200	11200	12700
HD 159063	17 31 54.11	+16 49 26.45	G0V	0.53	-4.81	3	1320	2840	5030	8370	12000	1320	2840	5030	8370	12000
HD 159222	17 32 0.99	+34 16 16.13	G1V	0.64	-4.85	70						1550	3300	5730	9000	12200
HD 163050	17 32 13.33	+84 13 41.79	G5	0.62			285	706	2600	8030	12200	285	706	2600	8030	12200
HD 159332	17 33 22.82	+19 15 24.04	F4V	0.48	-4.92	3	2170	4500	7440	10600	12500	2170	4500	7440	10600	12500
HD 158783	17 34 11.84	-54 53 44.71	G3/5V	0.67	-4.86	3	1630	3460	5970	9210	12300	1630	3460	5970	9210	12300
HD 158630	17 34 5.27	-59 46 32.80	G0V	0.60	-4.84	3	1520	3250	5640	8930	12200	1520	3250	5640	8930	12200
* 26 Dra	17 34 59.59	+61 52 28.40	F9V+K3V	0.59	-4.15	3	8	36	134	787	4520	8	36	134	787	4520
HD 159643	17 35 4.91	+20 08 19.93	G0	0.56		25						1040	3580	7800	11400	12800
HD 159909	17 36 50.20	+10 34 28.31	G5	0.69	-4.91	3	2050	4260	7120	10300	12500	2050	4260	7120	10300	12500
HD 160013	17 36 55.70	+19 55 20.45	G5	0.76	-4.74	3	903	2010	3720	6990	11500	903	2010	3720	6990	11500
HD 160245	17 37 20.89	+35 47 56.81	G0	0.55	-4.77	3	1040	2290	4170	7490	11700	1040	2290	4170	7490	11700
HD 159656	17 37 53.94	-42 34 3.25	G1V	0.64	-4.61	3	420	1010	2010	4670	10300	420	1010	2010	4670	10300
HD 160934	17 38 39.62	+61 14 16.10	K7Ve	1.19		40	1,2					60	161	251	353	592
HD 160001	17 39 29.54	-39 20 39.28	G1V	0.63	-4.75	3	936	2080	3830	7110	11600	936	2080	3830	7110	11600
HD 160693	17 39 36.87	+37 11 1.50	G0	0.57	-4.84	3	1480	3160	5510	8810	12100	1480	3160	5510	8810	12100
* psi01 Dra B	17 41 58.10	+72 09 24.84	F8V	0.54	-4.85	3	1530	3260	5670	8950	12200	1530	3260	5670	8950	12200
HD 161897	17 41 6.70	+72 25 13.24	K0	0.72	-4.80	3	1200	2620	4680	8030	11900	1200	2620	4680	8030	11900
HD 161582	17 42 51.70	+58 41 6.42	K0	0.76		16	644	1740	5170	9670	12400	644	1740	5170	9670	12400
HD 161198	17 43 15.67	-21 36 33.48	G9V	0.76	-4.96	3	2500	5100	8240	11200	12700	2500	5100	8240	11200	12700
* 58 Oph	17 43 25.79	-21 40 59.50	F5V	0.47	-4.63	3	452	1070	2130	4860	10400	452	1070	2130	4860	10400
HD 161570	17 44 7.56	+44 04 51.73	G5	0.92		4	342	493	754	1050	1420	342	493	754	1050	1420
HD 161479	17 45 2.93	+19 17 25.65	K0	0.77	-4.47	1	3,4	163	433	955	2800	163	433	955	2800	8460
HD 161502	17 45 27.26	+11 08 40.91	G5III	0.89		11	4	352	496	736	1030	352	496	736	1030	1370
* mu. Her	17 46 27.53	+27 43 14.44	G5IV	0.75	-4.92	3	2190	4520	7480	10600	12500	2190	4520	7480	10600	12500

Table 2 continued

Table 2 (continued)

HD 160859	17 46 35.93	-02 45 6.62	G1V	0.62	-4.84	3	1510	3230	5620	8910	12200	1510	3230	5620	8910	12200	
BD-08 4501	17 47 27.97	-08 46 47.73	sdF8	0.60	-4.73	3	843	1890	3520	6750	11400	843	1890	3520	6750	11400	
HD 163183	17 47 38.18	+73 07 57.64	G0	0.58		49						601	2080	5760	10400	12600	
HD 161050	17 47 46.04	-63 33 45.49	F8/G0V	0.59	-4.89							1880	3940	6660	9860	12400	
HD 162232	17 49 57.06	+00 30 43.30	G6V	0.73	-4.82	3	1880	3940	6660	9860	12400	1370	2960	5210	8530	12100	
HD 161784	17 50 30.18	-54 43 50.96	G0V	0.58	-4.92	3	2120	4400	7310	10500	12500	2120	4400	7310	10500	12500	
HD 162826	17 51 14.02	+04 04 20.87	F8V	0.54	-4.85	3	1560	3320	5760	9020	12200	1560	3320	5760	9020	12200	
HD 158651	17 51 51.85	-84 06 40.15	G0V	0.60	-4.95	3	2480	5060	8180	11200	12700	2480	5060	8180	11200	12700	
HD 162236	17 51 7.33	-27 23 46.93	C8/K0V	0.73	-4.86	3	1610	3430	5910	9160	12200	1610	3430	5910	9160	12200	
HD 162808	17 52 25.59	+11 59 28.92	G5	0.63	-4.47	3	155	415	921	2730	8370	155	415	921	2730	8370	
HD 162756	17 52 58.65	-07 55 10.27	F8/G0V	0.62	-4.51	3	204	528	1140	3160	8890	204	528	1140	3160	8890	
HD 163102	17 54 29.83	-03 27 44.84	F7V	0.52	-4.76	3	960	2130	3900	7200	11600	960	2130	3900	7200	11600	
HD 161476	17 54 5.49	-75 14 16.15	G2V	0.64	-4.85	3	1610	3410	5890	9140	12200	1610	3410	5890	9140	12200	
HD 164025	17 55 55.34	+56 02 7.15	K0	0.72		11						931	2520	6480	10800	12700	
HD 164330	17 56 20.10	+62 36 36.23	K0	0.67	-4.86	3	1610	3420	5900	9150	12200	1610	3420	5900	9150	12200	
HD 162521	17 56 24.29	-65 43 18.26	F5V	0.45	-4.43	3	115	321	737	2340	7810	115	321	737	2340	7810	
HD 163272	17 56 24.43	-26 46 24.21	G2/3V	0.61	-4.87	3	1740	3660	6260	9480	12300	1740	3660	6260	9480	12300	
HD 163568	17 57 10.00	-08 04 8.16	F7V	0.56	-4.90	3	2010	4180	7000	10200	12500	2010	4180	7000	10200	12500	
HD 163840	17 57 14.34	+23 59 44.65	G2V+K2V	0.64	-4.88	3	1810	3810	6470	9680	12400	1810	3810	6470	9680	12400	
HD 163029	17 57 31.68	-57 39 51.20	K0V+K3V	0.74	-3.93	3	1	9	71	532	2980	1	9	71	532	2980	
HD 163874	18 00 18.45	-39 14 58.45	G1V	0.58	-4.96	3	2490	5090	8220	11200	12700	2490	5090	8220	11200	12700	
HD 163693	18 00 30.52	-54 21 27.95	G5V	0.66	-4.81	3	1300	2810	4980	8320	12000	1300	2810	4980	8320	12000	
HD 164595	18 00 38.89	+29 34 18.92	G2V	0.64	-4.89	3	1900	3970	6710	9900	12400	1900	3970	6710	9900	12400	
HD 164509	18 01 31.23	+00 06 16.40	G2V	0.67	-4.83	3	1400	3020	5290	8620	12100	1400	3020	5290	8620	12100	
HD 165045	18 04 1.88	+01 49 56.61	K0V	0.80	-4.55	3	277	692	1440	3720	9470	277	692	1440	3720	9470	
HD 165011	18 04 20.45	-10 54 37.86	F8/G0V	0.58	-4.99	3	2800	5640	8880	11600	12800	2800	5640	8880	11600	12800	
HD 164328	18 04 26.14	-59 52 33.15	G3/5V	0.65	-4.74	3	876	1960	3630	6880	11500	876	1960	3630	6880	11500	
HD 164427	18 04 42.59	-59 12 34.47	G0+V	0.62	-4.91	3	2050	4270	7130	10300	12500	2050	4270	7130	10300	12500	
HD 165567	18 04 43.20	+40 05 3.05	F7V	0.50	-4.65	3	509	1200	2340	5180	10600	509	1200	2340	5180	10600	
HD 164748	18 04 53.73	-44 39 43.90	G8V	0.71	-4.75	3	937	2080	3830	7120	11600	937	2080	3830	7120	11600	
* 70 Oph	18 05 27.29	+02 30 0.36	K0-V	0.86	-4.39	3	83	242	578	1980	7260	83	242	578	1980	7260	
HD 164444	18 05 30.73	-63 11 39.03	G5V	0.62	-4.91	3	2110	4370	7270	10400	12500	2110	4370	7270	10400	12500	
HD 165401	18 05 37.45	+04 39 25.80	G2V	0.61	-4.41	3	96	275	646	2130	7510	96	275	646	2130	7510	
HD 165590	18 05 49.68	+21 26 45.39	G0V+G5V	0.62	-4.15	3	8	36	136	793	4540	8	36	136	793	4540	
HD 165863	18 05 5.74	+53 21 59.62	G5	0.72		13						857	2340	6260	10700	12700	
HD 165360	18 06 1.61	-08 06 31.01	F5V	0.53	-4.52	3	232	593	1260	3380	9140	232	593	1260	3380	9140	
HD 165269	18 06 13.76	-27 29 33.68	G1V	0.61	-4.82	3	1380	2960	5210	8540	12100	1380	2960	5210	8540	12100	
HD 165185	18 06 23.72	-36 01 11.23	G1V	0.61	-4.45	3	132	360	814	2500	8060	132	360	814	2500	8060	
HD 165672	18 06 48.81	+06 24 37.97	G5	0.66	-4.88	3	1830	3850	6530	9730	12400	1830	3850	6530	9730	12400	
* b Her	18 07 1.54	+30 33 43.69	F7VgF7mF5	0.52	-4.89	3	1940	4040	6810	10000	12400	1940	4040	6810	10000	12400	
V815 Her	18 08 16.05	+29 41 28.30	G5	0.71	-4.16	166	1,2,3,4	9	41	145	827	4640	16	69	161	472	2520
HD 165896	18 09 15.07	-26 07 0.42	G3V	0.65	-4.82	3	1360	2930	5160	8490	12100	1360	2930	5160	8490	12100	
HD 166435	18 09 21.38	+29 57 6.17	G1V	0.63	-4.26	1,3	27	96	271	1210	5700	27	96	271	1210	5700	
LP Dra	18 09 55.50	+69 40 49.79	K2V	0.95		10						309	439	687	986	1340	
* iot Pav	18 10 26.15	-62 00 8.06	G0V	0.59	-4.86	3	1680	3540	6090	9320	12300	1680	3540	6090	9320	12300	
BD+05 3640	18 12 21.88	+05 24 4.40	G8	0.76	-4.95	3	2450	5010	8130	11200	12700	2450	5010	8130	11200	12700	
HD 166553	18 12 59.14	-39 09 42.67	G1/2V	0.60	-4.90	3	2020	4200	7030	10200	12500	2020	4200	7030	10200	12500	
HD 167215	18 12 59.40	+28 15 27.37	F8	0.54	-4.91	3	2070	4300	7170	10400	12500	2070	4300	7170	10400	12500	
HD 167216	18 13 2.31	+28 14 47.86	F8	0.53	-4.91	3	2120	4390	7290	10500	12500	2120	4390	7290	10500	12500	

Table 2 continued

Table 2 (continued)

HD 166724	18 13 59.68	-42 34 31.36	K0IV/V	0.86	-4.91	3	2060	4270	7130	10300	12500	2060	4270	7130	10300	12500						
HD 167389	18 13 7.23	+41 28 31.31	F8V:	0.65	-4.71	3	728	1660	3120	6260	11200	728	1660	3120	6260	11200						
BD+29 3217	18 15 10.45	+29 48 23.97	G0	0.59		15						1250	3940	8100	11500	12800						
HD 168009	18 15 32.46	+45 12 33.54	G1V	0.64	-4.97	3	2650	5370	8560	11400	12800	2650	5370	8560	11400	12800						
HD 167359	18 15 49.07	-23 48 57.43	G8V	0.76	-4.95	3	2420	4960	8060	11100	12700	2420	4960	8060	11100	12700						
HD 166653	18 15 8.57	-57 51 15.91	G2V	0.59	-4.60	3	377	913	1840	4410	10100	377	913	1840	4410	10100						
HD 167665	18 17 23.76	-28 17 20.20	F9VFe-0.8CH-0.4	0.54	-4.81	3	1260	2720	4850	8190	12000	1260	2720	4850	8190	12000						
HD 168042	18 17 44.86	+02 58 13.35	G2/3V	0.56		13						1130	3910	8180	11600	12800						
HD 167425	18 19 40.13	-63 53 11.63	F9.5V	0.58	-4.55	3	280	699	1450	3740	9490	280	699	1450	3740	9490						
HD 167954	18 19 41.29	-45 41 56.98	F9V	0.53	-4.81	3	1250	2720	4840	8180	12000	1250	2720	4840	8180	12000						
V590 Lyr	18 19 8.82	+33 13 52.57	K0V	0.77	-4.48	8	3,4	171	451	990	2870	8550	761	1990	5100	9120	12200	1440	727	1280	3180	7460
HD 168874	18 20 49.25	+27 31 49.28	G2IV	0.63	-4.37	65	3,4	72	214	522	1850	7030	255	728	2530	7820	12100	140	294	536	1170	3290
HD 168960	18 21 50.38	+15 37 33.68	G5	0.62	-4.89	3	1910	4000	6750	9940	12400	1910	4000	6750	9940	12400						
BD+14 3507	18 22 54.84	+14 58 11.33	G0	0.67	-4.57	3	314	774	1590	3980	9710	314	774	1590	3980	9710						
HD 168788	18 23 50.92	-45 08 23.97	K0IV	0.84	-4.77	3	1030	2270	4130	7450	11700	1030	2270	4130	7450	11700						
HD 170527	18 25 10.11	+64 50 18.31	K0	0.99		361	4					2	12	41	146	242	2	12	41	146	242	
HD 169780	18 25 29.29	+22 02 0.62	G5	0.77		10	4					701	1830	4830	8830	12100	701	1830	4830	8830	12100	
HD 169822	18 26 10.09	+08 46 39.28	G6V	0.70	-4.93	3	2210	4570	7540	10700	12600	2210	4570	7540	10700	12600						
HD 169889	18 26 21.94	+08 36 56.77	K0	0.76	-4.94	3	2340	4810	7870	11000	12600	2340	4810	7870	11000	12600						
HD 169586	18 26 40.79	-30 23 35.86	G0V	0.55	-4.83	3	1430	3070	5380	8700	12100	1430	3070	5380	8700	12100						
HD 169383	18 27 12.94	-51 53 3.40	G3V	0.60	-4.92	3	2130	4410	7330	10500	12500	2130	4410	7330	10500	12500						
HD 169830	18 27 49.49	-29 49 0.71	F7V	0.52	-4.93	3	2280	4700	7720	10900	12600	2280	4700	7720	10900	12600						
CCDM J18289-2503AB	18 28 56.76	-25 02 34.47	G2V	0.60	-4.81	3	1310	2830	5010	8350	12000	1310	2830	5010	8350	12000						
HD 170512	18 29 27.65	+07 21 35.07	G0	0.60	-4.87	3	1720	3640	6230	9450	12300	1720	3640	6230	9450	12300						
HD 170778	18 29 3.93	+43 56 21.43	G5	0.61	-4.42	71	3,4	110	308	711	2280	7730	229	696	2620	8080	12200	171	341	615	1260	3590
BD+29 3272B	18 29 34.91	+29 58 4.59	F8	0.60		131	4					48	206	1770	7600	12100	48	206	1770	7600	12100	
HD 170377	18 29 5.58	+00 26 24.00	K1V	0.93		8	4					325	466	725	1030	1390	325	466	725	1030	1390	
HD 170038	18 29 7.44	-37 00 35.72	G0V	0.63	-4.73	3	847	1900	3530	6760	11400	847	1900	3530	6760	11400						
HD 170657	18 31 18.96	-18 54 31.73	K2V	0.86	-4.73	3	838	1880	3500	6730	11400	838	1880	3500	6730	11400						
HD 171067	18 32 10.46	+13 44 11.63	G6V	0.69	-4.88	3	1820	3820	6500	9700	12400	1820	3820	6500	9700	12400						
HD 170768	18 32 12.44	-26 29 47.38	G2V	0.58	-4.87	3	1710	3620	6200	9420	12300	1710	3620	6200	9420	12300						
HD 171195	18 33 10.24	+06 36 22.00	G5	0.70		5	4					1210	3150	7160	11100	12700	1210	3150	7160	11100	12700	
HD 171489	18 34 35.65	+12 32 20.19	G5	0.63		73	4					196	548	1980	7150	11900	196	548	1980	7150	11900	
HD 171238	18 34 43.68	-28 04 20.33	G8V	0.77	-4.61	3	398	959	1920	4540	10200	398	959	1920	4540	10200						
HD 171595	18 36 48.21	-26 17 21.94	G3V	0.63	-4.68	3	613	1420	2720	5720	10900	613	1420	2720	5720	10900						
HD 173127	18 36 58.55	+72 16 1.23	G5	0.57		118	4					69	325	2580	8550	12300	69	325	2580	8550	12300	
HD 171665	18 37 12.84	-25 40 16.56	G4V	0.69	-4.97	3	2610	5310	8490	11400	12800	2610	5310	8490	11400	12800						
HD 171918	18 37 42.63	-07 20 12.13	G5V	0.68	-4.99	3	2760	5570	8800	11600	12800	2760	5570	8800	11600	12800						
HD 172393	18 38 1.97	+42 39 54.77	K1	0.82	-4.75	3	944	2100	3850	7140	11600	944	2100	3850	7140	11600						
HD 172310	18 38 16.11	+28 55 31.53	G5V	0.70	-4.85	3	1540	3290	5700	8980	12200	1540	3290	5700	8980	12200						
HD 172088	18 38 23.80	-03 11 37.14	F8V	0.55	-4.55	3	273	683	1420	3690	9440	273	683	1420	3690	9440						
HD 172051	18 38 53.40	-21 03 6.74	G6V	0.67	-4.87	3	1740	3670	6270	9480	12300	1740	3670	6270	9480	12300						
HD 172649	18 39 42.12	+37 59 35.12	F5	0.53	-4.36	3	68	205	503	1800	6940	68	205	503	1800	6940						
BD+38 3251	18 39 45.83	+39 01 14.55	K5	0.95		87	4					42	128	226	280	380	42	128	226	280	380	
HD 172063	18 40 33.51	-48 34 5.76	G6/8V	0.76	-4.93	3	2290	4720	7740	10900	12600	2290	4720	7740	10900	12600						
HD 172513	18 42 2.36	-34 27 58.81	G8V	0.75	-4.88	3	1840	3860	6550	9750	12400	1840	3860	6550	9750	12400						
HD 172582	18 43 40.56	-50 09 54.04	G6V	0.69	-4.96	3	2520	5130	8270	11300	12700	2520	5130	8270	11300	12700						
BD+43 3055	18 43 58.68	+43 28 27.74	F8V	0.57		93	4					139	553	2950	8790	12300	139	553	2950	8790	12300	
HD 173701	18 44 35.12	+43 49 59.79	G8V	0.85	-4.94	3	2370	4860	7940	11000	12700	2370	4860	7940	11000	12700						

Table 2 continued

Table 2 (continued)

HD 173760	18 44 57.57	+44 21 32.37	F5IV-V	0.48	-4.56	3	298	739	1530	3870	9610	298	739	1530	3870	9610						
* 110 Her	18 45 39.73	+20 32 46.72	F5.5IV-V	0.48	-4.68	3	618	1430	2740	5750	10900	618	1430	2740	5750	10900						
HD 173206	18 45 4.60	-23 15 7.41	G3/5V	0.62	-4.93	3	2270	4680	7690	10800	12600	2270	4680	7690	10800	12600						
BD+49 2861	18 45 47.52	+49 31 41.77	K0	0.89		58	4			72	213	332	414	583		583						
HD 173427	18 46 16.27	-27 20 46.88	G1V	0.59	-4.27	3	29	102	283	1240	5780	29	102	283	1240	5780						
Smeethells 20	18 46 52.55	-62 10 36.61	M1Ve	1.24		332	2			3	10	25	103	205	3	10	25	103	205			
HD 229513	18 47 41.23	+12 26 23.27	K0	0.96		7	4			317	450	691	966	1300	317	450	691	966	1300			
HD 174622	18 49 43.64	+36 40 35.06	G0	0.60	-4.80	3	1200	2600	4660	8000	11900	1200	2600	4660	8000	11900						
HD 174457	18 50 2.06	+15 18 41.42	F8	0.62	-4.96	3	2510	5110	8250	11300	12700	2510	5110	8250	11300	12700						
CD-31 16041	18 50 44.48	-31 47 47.38	K8Ve	1.06		492	2			1	6	51	206	323	1	6	51	206	323			
HD 174912	18 51 25.18	+38 37 35.65	F8	0.59	-4.79	3	1160	2520	4530	7880	11900	1160	2520	4530	7880	11900						
HD 175441	18 51 38.11	+60 26 2.81	G0	0.59	-4.90	3	1970	4110	6910	10100	12400	1970	4110	6910	10100	12400						
HD 174719	18 51 48.42	+03 01 51.68	G5/6V	0.70	-4.73	3	823	1850	3450	6670	11400	823	1850	3450	6670	11400						
HD 175425	18 53 38.11	+37 59 6.88	G0	0.67	-4.82	3	1370	2950	5200	8530	12100	1370	2950	5200	8530	12100						
PZ Tel	18 53 5.87	-50 10 49.90	G9IV	0.85	-3.79	277	1,2,3	1	10	71	477	2000	4	23	65	175	308	1	6	27	70	185
HD 175073	18 55 18.81	-37 29 54.07	K1V	0.86	-4.78	3	1090	2380	4310	7650	11800	1090	2380	4310	7650	11800						
HD 175518	18 55 52.97	-05 44 42.79	G6IV/V	0.75	-4.95	3	2470	5050	8170	11200	12700	2470	5050	8170	11200	12700						
HD 175742	18 55 53.23	+23 33 23.93	K0V	0.92	-4.22	20	2,3			273	395	627	979	1340	273	395	627	979	1340			
HD 175726	18 56 37.17	+04 15 54.46	G0V	0.58	-4.38	3	80	235	566	1950	7210	80	235	566	1950	7210						
HD 176051	18 57 1.61	+32 54 4.57	F9V+K1V	0.58	-4.85	3	1580	3350	5800	9060	12200	1580	3350	5800	9060	12200						
HD 175626	18 57 58.48	-38 10 8.63	G3V	0.64	-4.97	3	2620	5310	8490	11400	12800	2620	5310	8490	11400	12800						
HD 176095	18 58 23.70	+06 14 23.74	F5IV	0.46	-4.62	3	445	1060	2100	4820	10400	445	1060	2100	4820	10400						
HD 176377	18 58 51.00	+30 10 50.31	G1V	0.60	-4.79	3	1160	2530	4550	7890	11900	1160	2530	4550	7890	11900						
HD 177274	19 00 12.45	+61 25 23.94	G5	0.59	-4.93	3	2220	4570	7550	10700	12600	2220	4570	7550	10700	12600						
HD 176845	19 00 25.52	+39 20 15.74	G2Ib/II	0.53	-4.62	3	436	1040	2070	4770	10300	436	1040	2070	4770	10300						
HD 176414	19 00 29.70	-07 23 9.00	F5IV/V	0.47	-4.49	3	185	484	1050	2990	8700	185	484	1050	2990	8700						
HD 230409	19 00 43.33	+19 04 28.42	G0	0.70	-4.91	3	2060	4270	7140	10300	12500	2060	4270	7140	10300	12500						
HD 177153	19 01 39.68	+41 29 24.33	G0	0.57	-4.86	3	1640	3470	5980	9220	12300	1640	3470	5980	9220	12300						
HD 176733	19 01 6.36	+15 41 1.41	G5V	0.70	-4.99	3	2750	5560	8780	11600	12800	2750	5560	8780	11600	12800						
HD 175897	19 01 6.84	-58 53 30.25	G5V	0.65	-3.85	3	2	10	73	515	2470	2	10	73	515	2470						
HD 176898	19 02 17.09	+02 44 21.88	K0/1V	0.88		92	4			47	147	253	326	439	47	147	253	326	439			
HD 176983	19 02 46.17	-00 42 41.93	G3/5V	0.65	-4.48	3	164	435	959	2800	8470	164	435	959	2800	8470						
HD 178156	19 03 28.80	+62 05 40.22	G5	0.64		8	4			1410	3860	7910	11400	12800	1410	3860	7910	11400	12800			
HD 176790	19 03 47.40	-40 15 4.48	G5/6V	0.64	-4.87	3	1760	3710	6330	9540	12300	1760	3710	6330	9540	12300						
HD 177572	19 04 26.27	+22 39 55.84	G0	0.63	-4.76	3	969	2150	3930	7240	11600	969	2150	3930	7240	11600						
HD 177122	19 04 41.48	-31 22 21.68	G2V	0.59	-4.85	3	1610	3410	5890	9140	12200	1610	3410	5890	9140	12200						
HD 176463	19 04 6.34	-59 44 34.31	G3V	0.65	-4.94	3	2310	4740	7780	10900	12600	2310	4740	7780	10900	12600						
* gam CrA	19 06 25.11	-37 03 48.39	F8V+F8V	0.52	-4.80	3	1250	2700	4810	8160	11900	1250	2700	4810	8160	11900						
* gam CrA A	19 06 25.21	-37 03 47.79	F8V	0.52	-4.80	3	1250	2700	4810	8160	11900	1250	2700	4810	8160	11900						
HD 177758	19 06 25.32	-11 53 50.69	G2VFe-1.0CH-0.6	0.57	-4.99	3	2780	5610	8850	11600	12800	2780	5610	8850	11600	12800						
HD 178428	19 07 57.32	+16 51 12.19	G4.5V	0.70	-5.00	3	2840	5720	8970	11600	12800	2840	5720	8970	11600	12800						
HD 175169	19 07 8.48	-80 33 8.87	G5V	0.72	-5.00	3	2830	5690	8940	11600	12800	2830	5690	8940	11600	12800						
HD 234808	19 08 14.04	+50 18 49.87	G8III-IV	0.89		339	4			3	14	48	175	314	3	14	48	175	314			
HD 178076	19 08 31.73	-30 58 21.54	G8V+K5V	0.79	-4.45	3	140	379	851	2580	8170	140	379	851	2580	8170						
HD 337674	19 08 35.19	+27 11 43.95	G0	0.62		146	4			31	129	938	5970	11700	31	129	938	5970	11700			
HD 177996	19 08 50.48	-42 25 41.23	K1V	0.86	-4.26	3	27	97	272	1210	5710	27	97	272	1210	5710						
HD 178911B	19 09 3.10	+34 35 59.47	G5	0.74	-4.91	3	2040	4240	7090	10300	12500	2040	4240	7090	10300	12500						
HD 178911	19 09 4.35	+34 36 1.24	G1V+K1V	0.63	-4.89	3	1940	4040	6810	10000	12400	1940	4040	6810	10000	12400						
HD 177409	19 09 54.56	-68 17 58.89	G1VCH-0.4	0.60	-4.90	3	1990	4150	6950	10100	12500	1990	4150	6950	10100	12500						

Table 2 continued

Table 2 (continued)

HD 180161	19 12 11.36	+57 40 19.12	K0	0.80	-4.51	3	213	549	1180	3230	8970	213	549	1180	3230	8970					
HD 179058	19 12 25.17	-33 03 43.54	F8/G0V	0.59	-4.86	3	1610	3430	5910	9160	12200	1610	3430	5910	9160	12200					
HD 179957	19 12 4.68	+49 51 14.00	G3V	0.66	-4.95	3	2470	5040	8170	11200	12700	2470	5040	8170	11200	12700					
HD 179205	19 12 43.00	-25 40 9.83	G1/2V	0.58	-4.49	3	187	488	1060	3010	8710	187	488	1060	3010	8710					
HD 179958	19 12 5.03	+49 51 20.69	G2V	0.66	-4.93	3	2260	4660	7670	10800	12600	2260	4660	7670	10800	12600					
HD 179626	19 13 20.72	-00 35 42.34	F5V	0.51	-4.87	3	1720	3640	6220	9440	12300	1720	3640	6220	9440	12300					
HD 179596	19 13 6.95	+04 56 8.26	F6V	0.53	-4.87	3	1710	3620	6190	9410	12300	1710	3620	6190	9410	12300					
HD 179640	19 14 38.49	-31 47 20.57	G6V	0.74	-4.57	3	321	791	1620	4040	9760	321	791	1620	4040	9760					
HD 179140	19 14 47.54	-58 00 26.33	G3V	0.63	-4.95	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700					
HD 230999	19 15 14.35	+19 36 33.66	G5	0.69	-4.96	3	2550	5200	8360	11300	12700	2550	5200	8360	11300	12700					
HD 179949	19 15 33.23	-24 10 45.67	F8V	0.54	-4.65	3	519	1220	2380	5240	10600	519	1220	2380	5240	10600					
HD 179814	19 16 17.68	-48 27 58.71	F8/G0V	0.55	-4.88	3	1810	3800	6460	9660	12400	1810	3800	6460	9660	12400					
HD 180684	19 16 48.58	+18 58 34.74	F8V	0.59	-4.97	3	2580	5250	8420	11400	12700	2580	5250	8420	11400	12700					
HD 180409	19 16 52.21	-10 58 18.40	F9V	0.57	-4.98	3	2670	5410	8610	11500	12800	2670	5410	8610	11500	12800					
HD 181207	19 17 46.36	+41 24 36.84	F9IV-V	0.53	-4.85	3	1600	3400	5870	9130	12200	1600	3400	5870	9130	12200					
HD 180204	19 17 5.30	-34 11 54.44	G0V	0.61	-4.99	3	2750	5550	8770	11600	12800	2750	5550	8770	11600	12800					
HD 181068	19 17 8.98	+41 15 53.30	G8III+G8V+K1V	0.90		25	4	229	391	571	918	1240	229	391	571	918	1240				
V555 Lyr	19 18 12.13	+34 08 10.13	K1III	1.12		12	4	238	339	487	666	849	238	339	487	666	849				
HD 180445	19 18 12.64	-38 23 4.45	G8V(e)	0.81	-3.96	3	1	9	70	536	3160	1	9	70	536	3160					
HD 181144	19 18 45.16	+16 29 18.10	F7V	0.53	-4.47	3	153	411	913	2710	8340	153	411	913	2710	8340					
HD 180702	19 18 59.06	-33 16 41.83	G1V	0.58	-4.89	3	1880	3930	6650	9840	12400	1880	3930	6650	9840	12400					
HD 181253	19 19 17.01	+14 10 39.26	G0	0.53	-4.51	3	208	538	1150	3190	8920	208	538	1150	3190	8920					
HD 180751	19 19 33.13	-42 03 54.83	G0V	0.57	-4.90	3	1980	4130	6940	10100	12400	1980	4130	6940	10100	12400					
HD 181655	19 19 39.00	+37 19 49.95	G5V	0.68	-4.92	3	2170	4480	7430	10600	12500	2170	4480	7430	10600	12500					
HD 231157	19 19 45.89	+16 29 52.62		0.71	-4.94	3	2390	4900	7980	11100	12700	2390	4900	7980	11100	12700					
HD 181010	19 19 56.16	-30 28 8.82	G8/K0V	0.84	-4.92	3	2140	4430	7350	10500	12500	2140	4430	7350	10500	12500					
HD 180748	19 19 7.18	-33 09 30.29	G6/8V+G	0.70	-4.85	3	1530	3270	5680	8950	12200	1530	3270	5680	8950	12200					
HD 181199	19 20 53.58	-33 03 10.79	G0.5V	0.66	-4.85	3	1570	3350	5790	9060	12200	1570	3350	5790	9060	12200					
HD 181602	19 20 7.47	+26 38 41.67	F5	0.46	-4.62	3	433	1030	2050	4750	10300	433	1030	2050	4750	10300					
HD 181321	19 21 29.73	-34 59 0.36	G2V	0.63	-4.33	131	1,3	49	156	401	1550	44	161	888	5590	11500	49	116	210	433	1360
HD 181428	19 21 39.37	-29 36 19.68	G1V	0.57	-4.87	3	1720	3620	6200	9420	12300	1720	3620	6200	9420	12300					
HD 181544	19 22 3.86	-29 31 23.01	G1V	0.57	-4.85	3	1570	3340	5780	9040	12200	1570	3340	5780	9040	12200					
HD 181720	19 22 52.98	-32 55 8.59	G1V	0.60	-4.94	3	2360	4840	7910	11000	12700	2360	4840	7910	11000	12700					
HD 181327	19 22 58.94	-54 32 16.98	F6V	0.46		120	2	9	38	148	366	519	9	38	148	366	519				
HD 181177	19 23 36.49	-63 11 30.92	G2/3V	0.63	-4.90	3	1990	4140	6950	10100	12500	1990	4140	6950	10100	12500					
HD 182407	19 24 23.00	+05 33 52.06	G0V	0.62	-4.84	3	1520	3240	5640	8920	12200	1520	3240	5640	8920	12200					
HD 182228	19 24 33.47	-23 10 33.08	G3V	0.63	-4.98	3	2730	5520	8730	11500	12800	2730	5520	8730	11500	12800					
HD 182498	19 25 18.69	-11 30 49.18	F8V	0.60	-4.86	3	1650	3500	6020	9260	12300	1650	3500	6020	9260	12300					
HD 183298	19 26 22.09	+50 59 14.33	G0.5IV	0.59	-4.90	3	1940	4060	6830	10000	12400	1940	4060	6830	10000	12400					
HD 182900	19 26 24.13	+13 01 25.69	F6III	0.46	-4.15	3	8	36	134	786	4520	8	36	134	786	4520					
HD 183162	19 27 51.78	+08 58 10.92	G0	0.61	-4.75	3	941	2090	3840	7130	11600	941	2090	3840	7130	11600					
HD 183063	19 28 12.31	-12 08 41.40	G8V	0.74	-4.85	3	1550	3300	5730	9000	12200	1550	3300	5730	9000	12200					
HD 239099	19 28 30.29	+57 37 13.66	G5	0.62		3	4	1510	4300	8380	11600	12800	1510	4300	8380	11600	12800				
HD 183341	19 28 46.39	+11 01 37.14	G5	0.62	-4.92	3	2120	4400	7310	10500	12500	2120	4400	7310	10500	12500					
HD 183216	19 29 40.57	-30 47 51.93	G2V	0.60	-4.55	3	271	680	1420	3680	9430	271	680	1420	3680	9430					
* mu. Tel	19 30 34.61	-55 06 36.19	F5V	0.45	-4.59	3	351	856	1740	4240	9920	351	856	1740	4240	9920					
* sig Dra	19 32 21.59	+69 39 40.23	K0V	0.78	-4.84	3	1530	3260	5660	8940	12200	1530	3260	5660	8940	12200					
HD 231701	19 32 4.16	+16 28 27.44	F8V	0.54	-4.72	3	800	1800	3370	6570	11300	800	1800	3370	6570	11300					
HD 183877	19 32 40.33	-28 01 11.31	G8VFe-1CH-0.5	0.68	-4.85	3	1590	3370	5830	9090	12200	1590	3370	5830	9090	12200					

Table 2 continued



Table 2 (continued)

HD 183804	19 32 55.05	-39 44 24.96	F7/SV	0.56	-4.46	3	152	406	904	2690	8320	152	406	904	2690	8320						
HD 184385	19 33 25.55	+21 50 25.17	G8V	0.74	-4.53	3	237	603	1280	3420	9170	237	603	1280	3420	9170						
HD 184499	19 33 27.08	+33 12 6.72	G0V	0.58	-4.97	3	2590	5260	8430	11400	12700	2590	5260	8430	11400	12700						
HD 184678	19 33 47.13	+42 21 29.74	G0	0.72		30	470	1100	3980	9630	12500	470	1100	3980	9630	12500						
HD 184960	19 34 19.79	+51 14 11.83	F7V	0.51	-4.96	3	2490	5080	8210	11200	12700	2490	5080	8210	11200	12700						
HD 184317	19 34 26.02	-12 55 36.04	G3V	0.61	-4.94	3	2350	4820	7880	11000	12700	2350	4820	7880	11000	12700						
HD 183505	19 35 16.60	-69 05 36.26	G8IV/V	0.67	-4.77	3	1040	2290	4160	7480	11700	1040	2290	4160	7480	11700						
HD 184509	19 35 35.79	-20 46 55.53	F8.5V	0.56	-4.80	3	1200	2600	4660	8000	11900	1200	2600	4660	8000	11900						
HD 185414	19 35 55.59	+56 59 2.08	G0	0.64	-4.81	3	1310	2820	5000	8340	12000	1310	2820	5000	8340	12000						
HD 183414	19 35 9.72	-69 58 32.10	G3V	0.65	-4.27	3	28	100	279	1230	5750	28	100	279	1230	5750						
HD 184962	19 36 23.01	+15 53 32.36	F8	0.53	-4.50	3	190	496	1080	3040	8750	190	496	1080	3040	8750						
HD 184979	19 36 5.54	+24 43 49.06	F9	0.56		58	464	1740	5290	10200	12600	464	1740	5290	10200	12600						
HD 185269	19 37 11.74	+28 29 59.50	G2V	0.61	-4.93	3	2220	4590	7570	10700	12600	2220	4590	7570	10700	12600						
HD 184985	19 37 34.41	-14 18 6.49	F7V	0.50	-4.80	3	1230	2660	4750	8100	11900	1230	2660	4750	8100	11900						
BD+30 3664	19 37 47.09	+30 21 18.54	K0V	0.87		4	398	601	978	1510	2340	398	601	978	1510	2340						
BD+43 3312	19 37 51.73	+43 37 31.60	K0	0.84	-4.69	3	681	1560	2960	6050	11100	681	1560	2960	6050	11100						
HD 185501	19 37 59.22	+33 53 35.79	G5	0.72	-4.72	3	789	1780	3330	6530	11300	789	1780	3330	6530	11300						
HD 185181	19 38 51.55	-25 52 18.98	K1V	0.87	-4.19	3	12	50	167	898	4860	12	50	167	898	4860						
HD 186922	19 39 6.37	+76 25 19.29	K2	0.88	-4.68	3	609	1410	2710	5700	10900	609	1410	2710	5700	10900						
HD 185720	19 40 45.12	-07 30 44.45	F6V	0.53	-4.77	3	1020	2240	4090	7400	11700	1020	2240	4090	7400	11700						
HD 185673	19 40 45.50	-16 17 1.74	F7V	0.54	-4.89	3	1920	4010	6760	9950	12400	1920	4010	6760	9950	12400						
* 16 Cyg A	19 41 48.95	+50 31 30.22	G1.5Vb	0.64	-4.99	3	2740	5540	8760	11500	12800	2740	5540	8760	11500	12800						
* 16 Cyg B	19 41 51.97	+50 31 3.09	G3V	0.66	-4.99	3	2740	5530	8750	11500	12800	2740	5530	8750	11500	12800						
HD 186104	19 42 29.76	+01 35 11.49	G5V	0.66	-4.98	3	2700	5470	8670	11500	12800	2700	5470	8670	11500	12800						
CD-59 7256	19 42 33.36	-59 00 35.55	G5V	0.71	-4.86	3	1690	3560	6110	9340	12300	1690	3560	6110	9340	12300						
HD 184588	19 43 0.04	-75 23 51.43	G0V	0.55	-4.53	3	235	598	1270	3400	9150	235	598	1270	3400	9150						
HD 186760	19 43 14.42	+58 00 59.82	G0V	0.58	-4.92	3	2190	4520	7480	10600	12500	2190	4520	7480	10600	12500						
HD 186185	19 43 33.55	-15 28 12.08	F6IV-V	0.46	-4.20	3	15	59	187	963	5050	15	59	187	963	5050						
HD 186085	19 43 52.63	-35 15 12.56	G3V	0.68	-4.90	3	1960	4090	6870	10100	12400	1960	4090	6870	10100	12400						
HD 185523	19 43 59.97	-66 17 51.13	G1V	0.64	-4.84	3	1460	3120	5460	8760	12100	1460	3120	5460	8760	12100						
HD 186268	19 45 54.61	-52 31 52.35	F5III/IV	0.47	-4.73	3	818	1840	3430	6650	11400	818	1840	3430	6650	11400						
HD 186704	19 45 57.34	+04 14 54.42	G0V	0.60	-4.34	66	1,3,4	54	168	426	1620	6580	298	987	3520	8960	12300	108	253	521	1330	4050
* 17 Cyg	19 46 25.60	+33 43 39.34	F5.5IV-V	0.47	-4.86	3	1640	3480	5990	9230	12300	1640	3480	5990	9230	12300						
HD 186932	19 46 37.82	+17 48 10.54	G0	0.61	-4.94	3	2300	4740	7770	10900	12600	2300	4740	7770	10900	12600						
HD 187123	19 46 58.11	+34 25 10.28	G2V	0.66	-4.97	3	2570	5230	8390	11300	12700	2570	5230	8390	11300	12700						
HD 186803	19 47 18.10	-18 44 47.98	G6IV	0.69	-4.65	3	508	1190	2340	5170	10600	508	1190	2340	5170	10600						
HD 186651	19 47 25.09	-43 20 42.45	F9.5V	0.56	-4.77	3	1050	2310	4190	7520	11700	1050	2310	4190	7520	11700						
HD 187003	19 47 33.32	+01 05 19.99	G2/3V	0.61	-4.41	3	97	276	647	2140	7510	97	276	647	2140	7510						
HD 186853	19 47 51.10	-29 09 33.40	G5V	0.67	-4.80	3	1190	2590	4640	7980	11900	1190	2590	4640	7980	11900						
HD 187237	19 48 0.88	+27 52 10.30	G2IV-V	0.66	-4.73	3	824	1850	3450	6670	11400	824	1850	3450	6670	11400						
HD 187748	19 48 15.45	+59 25 22.44	G0	0.58	-3.82	95	1,2,3,4	1	10	72	501	2270	127	479	2640	8500	12300	3	32	168	490	1570
V2091 Cyg	19 49 2.99	+29 52 58.27	K2II-III	0.89		81	4	54	163	276	348	454	54	163	276	348	454					
HD 187085	19 49 33.97	-37 46 49.97	G0V	0.57	-4.85	3	1530	3270	5670	8950	12200	1530	3270	5670	8950	12200						
HD 187154	19 49 44.08	-32 45 50.29	G1V	0.62	-4.48	3	163	434	958	2800	8460	163	434	958	2800	8460						
* omi Aql	19 51 1.64	+10 24 56.60	F8V	0.56	-4.95	3	2410	4940	8040	11100	12700	2410	4940	8040	11100	12700						
HD 187101	19 51 23.66	-58 30 35.54	F8/G0V	0.58	-4.93	3	2220	4580	7550	10700	12600	2220	4580	7550	10700	12600						
HD 187944	19 51 59.45	+17 50 18.41	G0	0.50	-4.72	3	800	1800	3370	6570	11300	800	1800	3370	6570	11300						
HD 187923	19 52 3.44	+11 37 41.97	G0V	0.64	-4.97	3	2610	5310	8490	11400	12800	2610	5310	8490	11400	12800						
HD 188015	19 52 4.54	+28 06 1.34	G5IV	0.73	-5.00	3	2840	5710	8970	11600	12800	2840	5710	8970	11600	12800						

Table 2 continued

Table 2 (continued)

HD 187897	19 52 9.39	+07 27 36.16	G5	0.64	-4.61	49	3, 4	403	968	1940	4570	10200	398	1120	3540	8830	12300	473	888	1570	2830	7000
HD 188345	19 53 59.70	+20 00 34.56	G5	0.63	-4.89		3	1890	3960	6700	9890	12400						1890	3960	6700	9890	12400
HD 188429	19 55 12.05	-00 50 33.30	G2V	0.63		131	4						43	157	797	5240	11400	43	157	797	5240	11400
HD 188298	19 55 29.79	-29 05 49.20	G5V	0.66	-4.62		3	437	1040	2070	4770	10300						437	1040	2070	4770	10300
HD 188510	19 55 9.68	+10 44 27.40	G5V:	0.60	-4.88		3	1800	3790	6440	9650	12400						1800	3790	6440	9650	12400
HD 188432	19 56 16.66	-31 36 48.67	G3V	0.66	-4.87		3	1700	3600	6170	9390	12300						1700	3600	6170	9390	12300
UCAC3 116-474938	19 56 2.94	-32 07 18.77	M4	1.56		500	2						1	2	5	10	29	1	2	5	10	29
TYC 7443-1102-1	19 56 4.37	-32 07 37.67	K9IVe	1.36		110	2						20	44	78	146	207	20	44	78	146	207
HD 189039	19 56 42.02	+37 34 5.23	K0III	1.08		101	4						38	110	200	284	342	38	110	200	284	342
HD 189087	19 57 13.41	+29 49 26.46	G8	0.79	-4.62		3	432	1030	2050	4740	10300						432	1030	2050	4740	10300
HD 188659	19 57 15.49	-26 13 2.91	G1V	0.52	-4.80		3	1220	2640	4720	8070	11900						1220	2640	4720	8070	11900
HD 189067	19 57 19.78	+24 05 17.36	G2V	0.64	-4.98		3	2710	5490	8700	11500	12800						2710	5490	8700	11500	12800
HD 188641	19 57 37.15	-37 44 42.19	G2V	0.63	-4.91		3	2060	4270	7130	10300	12500						2060	4270	7130	10300	12500
HD 189340	19 59 47.28	-09 57 29.63	F9V	0.58	-4.76		3	988	2190	3990	7300	11600						988	2190	3990	7300	11600
HD 189245	20 00 20.25	-33 42 12.43	F7V	0.50	-4.11		3	5	25	107	694	4230						5	25	107	694	4230
HD 189806	20 00 45.59	+32 57 0.09	K0V	0.86		47	4						111	280	382	640	1750	111	280	382	640	1750
HD 190694	20 01 0.41	+69 56 46.69	G5	0.79		6	4						674	1600	3830	6980	11100	674	1600	3830	6980	11100
HD 189625	20 01 32.80	-16 52 8.40	G5V	0.65	-4.84		3	1500	3200	5570	8860	12200						1500	3200	5570	8860	12200
HD 189627	20 01 38.19	-22 06 39.13	F7V	0.56	-4.78		3	1070	2360	4280	7610	11800						1070	2360	4280	7610	11800
HD 190067	20 02 34.16	+15 35 31.47	K0VFe-0.9	0.72	-4.85		3	1590	3390	5850	9110	12200						1590	3390	5850	9110	12200
HD 188480	20 02 50.15	-75 20 57.71	F8/G0V	0.54	-4.30		3	39	128	341	1400	6120						39	128	341	1400	6120
HD 239303	20 03 14.41	+58 43 33.12	G5	0.71		42	4						313	661	1830	7000	12000	313	661	1830	7000	12000
HD 190151	20 03 2.58	+18 17 43.68	G0	0.62	-4.85		3	1550	3310	5730	9000	12200						1550	3310	5730	9000	12200
HD 190102	20 04 18.10	-26 19 46.35	G1V	0.63	-4.36		3	65	196	485	1760	6860						65	196	485	1760	6860
HD 189931	20 04 2.68	-37 52 35.37	G1V	0.61	-4.68		3	621	1430	2750	5760	10900						621	1430	2750	5760	10900
HD 190412	20 04 46.63	+01 09 21.92	G6/8V	0.70	-4.88		3	1770	3730	6360	9570	12300						1770	3730	6360	9570	12300
* 15 Sge	20 04 6.22	+17 04 12.68	G0V	0.60	-4.73		3	837	1880	3500	6730	11400						837	1880	3500	6730	11400
HD 189567	20 05 32.77	-67 19 15.23	G2V	0.65	-4.92		3	2210	4560	7530	10700	12600						2210	4560	7530	10700	12600
HD 190594	20 05 33.63	+03 30 9.94	G8IV	0.78	-4.97		3	2620	5320	8500	11400	12800						2620	5320	8500	11400	12800
HD 191022	20 05 40.43	+48 34 0.53	G0	0.66	-5.00		3	2840	5720	8970	11600	12800						2840	5720	8970	11600	12800
HD 190771	20 05 9.78	+38 28 42.55	G2V	0.65	-4.39		3	82	241	577	1980	7260						82	241	577	1980	7260
HD 190528	20 06 28.03	-31 34 8.94	G2V	0.65	-4.36		3	68	206	505	1810	6950						68	206	505	1810	6950
HD 190220	20 06 50.00	-56 15 18.39	G3V	0.66	-4.90		3	1940	4050	6820	10000	12400						1940	4050	6820	10000	12400
HD 190422	20 07 35.09	-55 00 57.65	F9VCH-0.4	0.53	-4.36		3	65	198	488	1770	6880						65	198	488	1770	6880
HD 190821	20 07 39.38	-20 49 58.19	G3/5V	0.66	-4.90		3	1980	4130	6930	10100	12400						1980	4130	6930	10100	12400
HD 190931	20 08 26.16	-28 53 56.65	K1V	0.76	-4.36		3	66	199	490	1770	6890						66	199	490	1770	6890
HD 190125	20 08 3.19	-67 44 49.39	G5V	0.71	-4.59		3	353	859	1750	4250	9930						353	859	1750	4250	9930
HD 191854	20 10 13.33	+43 56 44.07	G4V+G8V	0.69	-4.98		3	2720	5500	8720	11500	12800						2720	5500	8720	11500	12800
HD 191592	20 10 22.51	+11 32 31.08	F8	0.69		66	4						147	359	737	2500	8750	147	359	737	2500	8750
V1058 Aql	20 10 43.82	+04 54 49.22	K1(III)	1.05		89	4						41	131	241	319	375	41	131	241	319	375
HD 192020	20 11 25.12	+38 24 0.50	G8V	0.85	-4.70		0	3, 4	697	1590	3020	6120	11100					697	1590	3020	6120	11100
* 68 Dra	20 11 34.87	+62 04 42.76	F5V	0.51	-4.28		3	31	108	296	1280	5860						31	108	296	1280	5860
* ksi Cap	20 12 25.87	-12 37 2.99	F7VFe-0.5	0.48	-4.69		3	675	1540	2940	6020	11100						675	1540	2940	6020	11100
HD 192028	20 12 34.60	+07 20 39.53	G5	0.86		32	4						223	373	636	1480	2660	223	373	636	1480	2660
HD 189310	20 13 16.43	-82 01 41.33	K2V	0.90	-4.71		3	752	1710	3210	6370	11200						752	1710	3210	6370	11200
HD 192148	20 13 30.25	-01 12 42.04	G5V	0.71	-4.87		3	1700	3590	6160	9380	12300						1700	3590	6160	9380	12300
HD 355183	20 13 54.72	+16 55 29.62	G0	0.56	-4.86		3	1680	3560	6100	9330	12300						1680	3560	6100	9330	12300
HD 192263	20 13 59.85	-00 52 0.77	K1/2V	0.94	-4.58		4	2, 3	385	479	730	1010	1370					385	479	730	1010	1370
HD 192343	20 14 9.18	+06 34 37.97	G4V	0.65	-4.99		3	2790	5630	8860	11600	12800						2790	5630	8860	11600	12800

Table 2 continued

Table 2 (continued)

HD 192623	20 15 37.26	+06 14 40.45	K2	0.93	6	4	336	482	744	1040	1410	336	482	744	1040	1410
HD 193216	20 16 54.53	+50 16 43.48	G5	0.75	3	2040	4230	7080	10300	12500	2040	4230	7080	10300	12500	
CCDM J20169-3236AB	20 16 54.73	-32 36 26.58	G5V	0.69	3	531	1240	2420	5300	10700	531	1240	2420	5300	10700	
HD 193664	20 17 31.33	+66 51 13.28	G3V	0.58	3	1520	3240	5630	8920	12200	1520	3240	5630	8920	12200	
HD 193017	20 18 10.01	-04 43 43.20	F6V	0.57	3	302	749	1550	3910	9640	302	749	1550	3910	9640	
HD 192886	20 19 17.85	-47 34 49.05	F5V	0.47	3	716	1630	3080	6210	11200	716	1630	3080	6210	11200	
HD 192117	20 20 24.18	-75 34 40.37	G8IV-V	0.74	3	1340	2890	5100	8440	12000	1340	2890	5100	8440	12000	
HD 193554	20 20 3.67	+23 38 17.05	G5	0.62	63	297	907	3160	8540	12300	297	907	3160	8540	12300	
HD 193795	20 21 15.23	+28 06 24.60	G4IV	0.68	3	2800	5640	8880	11600	12800	2800	5640	8880	11600	12800	
HD 193307	20 21 41.04	-49 59 57.90	F9V	0.55	3	1550	3310	5740	9010	12200	1550	3310	5740	9010	12200	
HD 193464	20 21 43.09	-36 36 36.29	G0/IV	0.59	3	79	231	557	1930	7180	79	231	557	1930	7180	
HD 193690	20 22 31.34	-26 09 35.60	G6V	0.79	3	1560	3320	5750	9020	12200	1560	3320	5750	9020	12200	
HD 193844	20 22 41.87	-10 18 6.72	K2V	0.89	3	1850	3880	6570	9770	12400	1850	3880	6570	9770	12400	
HD 194012	20 22 52.37	+14 33 3.95	F7V	0.48	3	450	1070	2120	4850	10400	450	1070	2120	4850	10400	
HD 193901	20 23 35.85	-21 22 14.23	F7V	0.55	3	1390	2980	5240	8570	12100	1390	2980	5240	8570	12100	
HD 194080	20 24 6.69	-13 23 55.02	F6/7V	0.53	3	2510	5120	8260	11300	12700	2510	5120	8260	11300	12700	
HD 229293	20 25 39.03	+41 53 45.59	K0	0.59	40	760	2500	6360	10700	12700	760	2500	6360	10700	12700	
HD 194766	20 27 26.93	-02 07 10.27	F6V	0.49	3	1320	2850	5040	8380	12000	1320	2850	5040	8380	12000	
HD 194765	20 27 27.52	-02 06 11.07	F7V	0.50	3	1370	2950	5200	8530	12100	1370	2950	5200	8530	12100	
BD+77 779	20 27 40.46	+77 34 18.34	K2	1.13	4	259	355	505	670	856	259	355	505	670	856	
HD 194640	20 27 44.24	-30 52 4.25	G8V	0.72	3	1930	4040	6800	9990	12400	1930	4040	6800	9990	12400	
HD 195034	20 28 11.82	+22 07 44.37	G5	0.64	3	1060	2330	4230	7560	11700	1060	2330	4230	7560	11700	
HD 195019B	20 28 18.52	+18 46 13.36	K3:	0.66	3	2	11	74	561	3490	2	11	74	561	3490	
HD 195004	20 28 43.54	-00 06 46.53	F6V	0.72	44	695	1590	3010	6110	11100	695	1590	3010	6110	11100	
HD 195104	20 29 11.70	+04 27 23.76	F7V	0.51	3	695	1590	3010	6110	11100	695	1590	3010	6110	11100	
CCDM J20319-4054AB	20 31 52.74	-40 54 6.08	K0/2+F/G	0.71	33	4	273	555	1380	6150	273	555	1380	6150	11800	
HD 195987	20 32 51.64	+41 53 54.60	G9V	0.80	3	259	652	1370	3590	9340	259	652	1370	3590	9340	
HD 195145	20 33 0.35	-62 29 46.92	G5V	0.74	3	2800	5640	8880	11600	12800	2800	5640	8880	11600	12800	
HD 195289	20 33 13.27	-58 06 44.45	F8V	0.61	3	269	675	1410	3670	9420	269	675	1410	3670	9420	
HD 195521	20 33 22.88	-41 31 28.91	G5V	0.67	3	45	145	377	1490	6320	45	145	377	1490	6320	
HD 196269	20 33 3.02	+61 08 19.61	F8	0.60	33	4	903	2870	6840	11000	903	2870	6840	11000	12700	
HD 195838	20 34 11.70	-13 43 15.93	F9VFe-0.6CH-0.3	0.54	3	2180	4510	7460	10600	12500	2180	4510	7460	10600	12500	
HD 196199	20 35 2.81	+23 42 37.66	F5	0.48	3	548	1280	2480	5390	10700	548	1280	2480	5390	10700	
HD 196201	20 35 26.23	+11 21 25.66	G8	0.76	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700	
HD 340540	20 35 56.57	+27 42 40.19	K0	0.94	122	4	34	108	182	240	34	108	182	240	325	
HD 196219	20 36 6.63	-06 40 45.07	G5/6V	0.75	148	4	20	84	175	342	20	84	175	342	1120	
HD 196141	20 37 11.64	-44 44 41.07	G2V	0.65	3	128	350	794	2460	7990	128	350	794	2460	7990	
HD 196254	20 37 15.84	-34 09 29.45	G0V	0.56	3	959	2130	3900	7200	11600	959	2130	3900	7200	11600	
HD 196050	20 37 51.71	-60 38 4.15	G3V	0.67	3	2670	5420	8610	11500	12800	2670	5420	8610	11500	12800	
HD 195962	20 38 25.55	-66 32 19.45	G3/5V	0.65	3	1640	3480	6000	9240	12300	1640	3480	6000	9240	12300	
HD 196850	20 38 40.19	+38 38 6.33	G1V	0.60	3	1610	3420	5900	9150	12200	1610	3420	5900	9150	12200	
HD 196390	20 39 2.52	-49 19 53.13	G1.5V	0.63	3	1040	2290	4160	7480	11700	1040	2290	4160	7480	11700	
HD 196531	20 39 2.64	-28 25 31.52	G0V	0.54	3	1160	2530	4540	7880	11900	1160	2530	4540	7880	11900	
HD 196885	20 39 51.88	+11 14 58.70	F8V	0.55	3	642	1480	2820	5860	11000	642	1480	2820	5860	11000	
HD 196761	20 40 11.75	-23 46 25.92	G7.5IV-V	0.72	3	2510	5120	8250	11300	12700	2510	5120	8250	11300	12700	
* phi02 Pav	20 40 2.64	-60 32 56.02	G0VFe-0.8CH-0.5	0.54	3	975	2160	3950	7260	11600	975	2160	3950	7260	11600	
HD 197076	20 40 45.14	+19 56 7.93	G5V	0.61	3	1270	2760	4900	8240	12000	1270	2760	4900	8240	12000	
HD 196068	20 41 45.52	-75 20 47.05	G1V	0.64	3	2850	5720	8980	11700	12800	2850	5720	8980	11700	12800	
HD 197210	20 42 29.41	-05 18 4.47	G5V	0.71	3	2830	5690	8940	11600	12800	2830	5690	8940	11600	12800	

Table 2 continued

Table 2 (continued)

HD 197214	20 43 16.00	-29 25 26.11	G6V	0.67	-4.85	3	1560	3330	5770	9030	12200	1560	3330	5770	9030	12200
HD 197069	20 44 35.88	-63 08 10.24	G5/8V+(F)	0.58	-4.83	3	1410	3020	5300	8620	12100	1410	3020	5300	8620	12100
HD 197623	20 44 57.11	+00 17 30.99	G3V	0.66	-4.99	3	2760	5580	8800	11600	12800	2760	5580	8800	11600	12800
HD 197239	20 44 7.53	-44 46 19.63	G5V	0.65	-4.75	3	926	2060	3790	7070	11600	926	2060	3790	7070	11600
HD 197499	20 45 14.02	-30 57 20.33	F8/G0V	0.58	-4.94	3	2380	4870	7950	11000	12700	2380	4870	7950	11000	12700
HD 198084	20 45 21.13	+57 34 47.01	F8IV-V+F9IV-V	0.54	-4.99	3	2760	5560	8790	11600	12800	2760	5560	8790	11600	12800
BD+80 670	20 45 22.81	+81 04 48.80	G5	0.67	-4.99	3	1470	3810	7810	11400	12800	1470	3810	7810	11400	12800
AU Mic	20 45 9.53	-31 20 27.24	M1VeBa1	1.44	-3.86	51	38	82	135	183	244	38	82	135	183	244
HD 197818	20 46 34.27	-17 09 46.43	G1V	0.62	-4.89	3	1870	3920	6640	9840	12400	1870	3920	6640	9840	12400
* gam01 Del	20 46 38.86	+16 07 26.85	F8	0.49	-4.64	3	498	1170	2300	5120	10600	498	1170	2300	5120	10600
HD 335129	20 47 0.82	+30 55 18.84	G5	0.72	-4.97	3	2570	5240	8400	11300	12700	2570	5240	8400	11300	12700
HD 197823	20 47 16.62	-35 09 14.71	K0IV-V	0.76	-4.85	3	1530	3260	5670	8950	12200	1530	3260	5670	8950	12200
HD 198089	20 47 37.87	+12 59 10.47	F8	0.59	-4.89	3	1900	3980	6720	9920	12400	1900	3980	6720	9920	12400
HD 198075	20 48 15.19	-12 27 15.49	G0.5V	0.62	-4.89	3	1910	3990	6730	9930	12400	1910	3990	6730	9930	12400
HD 199019	20 49 29.34	+71 46 29.23	G5	0.77	-4.34	3	56	175	441	1650	6660	56	175	441	1650	6660
HD 198483	20 49 46.46	+25 46 15.36	G0V	0.60	-4.59	87	368	893	1810	4350	10000	156	516	2400	8100	12200
HD 198683	20 51 43.16	+12 02 7.99	F8	0.57	-4.94	3	2340	4810	7870	11000	12600	2340	4810	7870	11000	12600
HD 199476	20 51 44.94	+74 46 49.18	G8	0.69	-4.90	3	1960	4080	6870	10100	12400	1960	4080	6870	10100	12400
HD 198802	20 53 5.60	-11 34 25.16	G5V	0.66	-4.98	3	2660	5400	8590	11500	12800	2660	5400	8590	11500	12800
HD 199058	20 54 21.09	+09 02 23.78	G5	0.67	-4.98	160	4	19	81	244	8460	19	81	244	8460	8460
BD+41 3931	20 55 16.76	+42 18 0.68	G5	0.59	-4.86	3	1620	3430	5920	9160	12200	1620	3430	5920	9160	12200
HD 199086	20 55 3.37	-07 10 43.25	G3V	0.62	-4.73	3	837	1880	3500	6720	11400	837	1880	3500	6720	11400
HD 198678	20 55 40.78	-66 08 59.76	G3V	0.62	-4.86	3	1640	3470	5980	9220	12300	1640	3470	5980	9220	12300
AZ Cap	20 56 2.74	-17 10 53.80	K7	0.98	-4.86	400	1	2	10	35	137	2	10	35	137	241
HD 198943	20 56 26.62	-59 16 25.27	G2V	0.65	-4.67	3	585	1360	2620	5580	10800	585	1360	2620	5580	10800
HD 199260	20 56 47.33	-26 17 46.97	F6V	0.51	-4.37	3	72	216	526	1860	7050	72	216	526	1860	7050
HD 199065	20 57 22.43	-59 04 33.46	G3V	0.66	-4.51	3	209	540	1160	3200	8930	209	540	1160	3200	8930
HD 199598	20 57 39.67	+26 24 18.57	G0V	0.58	-4.66	3	558	1300	2520	5440	10800	558	1300	2520	5440	10800
HD 199288	20 57 40.07	-44 07 45.74	G2VFe-1.0	0.59	-4.92	3	2140	4420	7340	10500	12500	2140	4420	7340	10500	12500
BD+11 4439	20 58 35.00	+12 14 6.16	K0	0.78	-4.92	64	4	94	261	394	739	94	261	394	739	2240
HD 199803	20 59 32.80	+01 03 56.38	G5V	0.67	-4.52	3	231	590	1250	3380	9130	231	590	1250	3380	9130
HD 199604	20 59 5.28	-25 22 51.00	G2V	0.57	-4.81	3	1280	2770	4920	8260	12000	1280	2770	4920	8260	12000
HD 199623	21 00 21.48	-51 15 55.13	F5.5V	0.48	-4.59	3	370	898	1810	4360	10000	370	898	1810	4360	10000
BD+44 3670	21 00 47.00	+45 30 10.48	F8	0.66	-4.59	196	4	9	48	204	2030	9	48	204	2030	9390
HD 199976	21 00 49.02	-08 20 34.33	G8V	0.73	-4.47	10	155	414	919	2720	8360	920	2510	6440	10800	12700
HD 199190	21 00 5.80	-69 34 45.96	G1IV-V	0.63	-4.94	3	2360	4840	7910	11000	12700	2360	4840	7910	11000	12700
HD 199918	21 01 13.37	-35 11 3.06	G3V	0.62	-4.81	3	1290	2780	4930	8280	12000	1290	2780	4930	8280	12000
HD 200334	21 04 31.96	-46 15 20.10	G0V	0.58	-4.90	3	2010	4180	7000	10200	12500	2010	4180	7000	10200	12500
HD 200565	21 04 5.69	+03 58 50.29	G5V	0.65	-4.73	3	851	1910	3540	6780	11400	851	1910	3540	6780	11400
* 4 Equ	21 05 26.68	+05 57 29.79	F8V	0.51	-4.90	3	2020	4210	7040	10200	12500	2020	4210	7040	10200	12500
HD 200538	21 05 4.91	-32 49 34.22	G0V	0.61	-4.90	3	2010	4180	7000	10200	12500	2010	4180	7000	10200	12500
TV Equ	21 05 7.93	+07 56 43.50	G5	0.65	-4.44	79	3,4	123	340	774	2420	150	390	1270	5660	11500
HD 235440	21 06 0.69	+54 21 54.49	F8	0.59	-4.44	42	4	713	2350	6130	10600	713	2350	6130	10600	12600
HD 200625	21 06 17.13	-48 31 34.72	G2V	0.62	-4.87	3	1710	3610	6180	9400	12300	1710	3610	6180	9400	12300
HD 201651	21 06 56.39	+69 40 28.55	K0	0.75	-4.99	1,2,3	2790	5620	8850	11600	12800	2790	5620	8850	11600	12800
HD 200505	21 07 45.92	-67 55 13.14	K2Vke	0.84	-4.78	3	1120	2450	4420	7760	11800	1120	2450	4420	7760	11800
HD 201219	21 07 56.52	+07 25 58.59	G5	0.69	-4.57	3	324	796	1630	4050	9770	324	796	1630	4050	9770
HD 201203	21 08 36.94	-21 40 58.94	F8/G0V	0.51	-4.72	3	774	1750	3280	6460	11300	774	1750	3280	6460	11300
HD 201378	21 09 19.19	-03 53 32.79	F7V	0.62	-4.48	3	167	442	973	2830	8500	167	442	973	2830	8500

Table 2 continued

Table 2 (continued)

HD 1395509	21 09 20.73	-82 01 38.11	G1V	0.62	-4.80	3	1200	2620	4680	8020	11900	1200	2620	4680	8020	11900
HD 200525	21 09 22.44	-73 10 22.56	F9.5V	0.59	-4.54	3	259	651	1370	3590	9340	259	651	1370	3590	9340
HD 201247	21 10 25.35	-54 34 25.49	G5V+G7V(k)	0.69	-4.38	3	75	224	541	1890	7110	75	224	541	1890	7110
HD 201891	21 11 59.03	+17 43 39.89	G5V-Fe-2.5	0.53	-4.75	3	948	2110	3870	7160	11600	948	2110	3870	7160	11600
HD 201889	21 11 59.52	+24 10 5.39	G1V	0.59	-4.03	3	2	13	79	584	3690	2	13	79	584	3690
HD 201647	21 12 13.71	-40 16 9.70	F5V	0.45	-4.51	3	204	529	1140	3160	8890	204	529	1140	3160	8890
HD 201796B	21 12 22.39	-14 59 57.73	G5V	0.70	-4.50	3	198	514	1110	3100	8830	198	514	1110	3100	8830
HD 201796A	21 12 22.61	-15 00 0.37	G3V	0.65	-4.46	3	146	394	880	2640	8260	146	394	880	2640	8260
HD 202108	21 12 57.64	+30 48 34.24	G3V	0.67	-4.72	3	783	1770	3310	6500	11300	783	1770	3310	6500	11300
HD 201772	21 13 3.07	-39 25 29.72	F6VFe-0.9CH-0.5	0.46	-4.54	3	263	661	1390	3620	9370	263	661	1390	3620	9370
HD 202582	21 13 42.48	+64 24 14.23	G2IV+G2IV	0.61	-4.62	3	424	1010	2020	4700	10300	424	1010	2020	4700	10300
HD 201989	21 14 1.80	-29 39 48.68	G6V	0.69	-4.50	3	189	493	1070	3020	8740	189	493	1070	3020	8740
HD 202041	21 14 23.40	-32 32 19.92	F8/G0V	0.58	-4.92	3	2210	4560	7530	10700	12600	2210	4560	7530	10700	12600
* del Equ	21 14 28.82	+10 00 25.13	F7(V)+G0(V)	0.50	-4.87	3	1710	3600	6170	9400	12300	1710	3600	6170	9400	12300
BD+39 4490	21 14 55.25	+39 41 12.18	G1.5V	0.58	-4.76	101	4					110	445	2720	8620	12300
HD 202206	21 16 32.47	+09 23 37.77	K3V	1.04	-4.47	25	1,2,3					998	2210	4030	7340	11700
HD 202779	21 17 21.30	+31 53 57.88	G5IV	0.84	-4.76	78	4					151	348	457	654	838
HD 202628	21 18 27.27	-43 20 4.75	G5V	0.64	-4.70	3	716	1630	3080	6210	11200	54	174	273	381	675
HD 202457	21 18 44.38	-61 21 9.85	G5V	0.69	-4.39	3	2790	5620	8850	11600	12800	716	1630	3080	6210	11200
V457 Vul	21 18 58.22	+26 13 49.96	K0V	0.76	-4.32	43	3,4	48	154	396	1540	2790	5620	8850	11600	12800
HD 202940	21 19 45.63	-26 21 10.36	G7V	0.74	-4.91	3	2100	4360	7260	10400	12500	246	459	1080	5670	11300
BN Cap	21 20 2.47	-27 18 16.06	G5V	0.62	-4.39	3	86	249	594	2020	7320	86	249	594	2020	7320
HD 203418	21 20 25.77	+47 33 26.95	K3V	1.02	-4.66	20	4					210	357	500	724	954
HD 202871	21 20 4.88	-42 40 43.30	G0V	0.56	-4.66	3	567	1320	2550	5490	10800	567	1320	2550	5490	10800
HD 203019	21 20 46.59	-38 46 53.19	G7V	0.69	-4.38	3	77	228	550	1920	7150	77	228	550	1920	7150
HD 202917	21 20 49.96	-53 02 3.16	G7V	0.69	-4.06	3	3	17	89	626	3970	3	17	89	626	3970
HD 202996	21 20 50.86	-45 48 39.15	G0V	0.61	-4.44	3	124	340	776	2420	7930	124	340	776	2420	7930
HD 203454	21 21 1.42	+40 20 41.88	F8V	0.53	-4.32	3	48	154	396	1540	6430	48	154	396	1540	6430
HD 203473	21 22 18.87	+05 01 24.92	G6V	0.66	-4.97	3	2620	5320	8500	11400	12800	2620	5320	8500	11400	12800
HD 203277	21 23 2.83	-51 56 32.55	G3V	0.64	-4.94	3	2340	4800	7850	11000	12600	2340	4800	7850	11000	12600
HD 203432	21 23 22.57	-41 33 9.05	G8IV	0.74	-4.99	3	2750	5540	8770	11500	12800	2750	5540	8770	11500	12800
HD 202732	21 23 27.14	-75 29 37.76	G5V	0.69	-4.48	3	166	439	967	2820	8490	166	439	967	2820	8490
HD 198477	21 23 9.85	-87 03 8.21	G6/K0(III)+G	0.76	-4.77	3	1030	2260	4120	7440	11700	1030	2260	4120	7440	11700
HD 203244	21 24 40.52	-68 13 40.53	G5V	0.72	-4.47	3	152	408	907	2700	8330	152	408	907	2700	8330
* gam Pav	21 26 26.60	-65 21 58.31	F9VFe-1.4CH-0.7	0.49	-4.43	3	120	331	756	2380	7870	120	331	756	2380	7870
BD+39 4559	21 26 56.42	+39 39 31.54	G0	0.66	-4.93	3	2240	4630	7630	10800	12600	2240	4630	7630	10800	12600
CCDM J21273-3222AB	21 27 18.15	-32 22 14.67	G5V	0.65	-4.82	3	1380	2970	5230	8560	12100	1380	2970	5230	8560	12100
HD 204277	21 27 6.61	+16 07 26.95	F8V	0.53	-4.43	3	119	330	755	2370	7870	119	330	755	2370	7870
HD 204734	21 28 1.23	+64 23 16.26	K1V	0.85	-4.59	25	4					291	460	940	1920	3380
HD 204363	21 28 13.95	-11 34 5.84	F9VFe-1.3CH-0.7	0.49	-4.59	3	359	873	1770	4290	9960	359	873	1770	4290	9960
HD 204287	21 29 14.48	-50 19 0.64	G3V	0.66	-4.95	3	2400	4910	8000	11100	12700	2400	4910	8000	11100	12700
BD+47 3439	21 30 48.00	+48 27 25.41	K0	0.73	-4.95	7	4					992	2670	6620	10900	12700
HD 205113	21 31 1.35	+59 25 5.38	G2.5V	0.67	-4.53	38	3,4	243	616	1300	3460	484	1250	3840	9190	12400
BD+22 4409	21 31 1.71	+23 20 7.37	K3Vke	1.03	-3.91	177	1,2	18	52	113	206	18	52	113	206	305
HD 204807	21 32 11.50	-40 11 53.30	G6IV	0.72	-4.82	3	1380	2960	5220	8540	12100	1380	2960	5220	8540	12100
HD 205173	21 32 39.30	+36 04 45.98	K0IV	0.98	-4.82	76	4					46	137	289	291	393
HD 205067	21 33 30.98	-27 53 24.95	G2/3V	0.66	-4.93	3	2290	4720	7740	10900	12600	2290	4720	7740	10900	12600
HD 205351	21 33 54.33	+32 52 9.07	G5	0.64	-4.87	3	1700	3580	6140	9370	12300	1700	3580	6140	9370	12300

Table 2 continued

Table 2 (continued)

HD 205089	21 33 6.66	-03 11 38.30	G6V	0.75	18	4	640	1750	5390	10100	12500	640	1750	5390	10100	12500						
HD 205353	21 34 23.37	+13 55 11.49	G0	0.60	-4.88	3	1770	3720	6350	9560	12300	1770	3720	6350	9560	12300						
HD 205356	21 34 29.74	+09 29 58.88	G0	0.58	-4.60	3	372	902	1820	4370	10000	372	902	1820	4370	10000						
HD 205420	21 34 33.97	+22 45 16.28	F7V	0.51	-4.82	3	1370	2950	5200	8530	12100	1370	2950	5200	8530	12100						
HD 205156	21 34 50.97	-49 47 35.03	G3V	0.62	-4.80	3	1230	2660	4750	8100	11900	1230	2660	4750	8100	11900						
HD 206627	21 35 57.34	+26 22 11.71	F8V	0.55	-4.88	3	1830	3850	6530	9730	12400	1830	3850	6530	9730	12400						
HD 205390	21 36 41.24	-50 50 43.39	K1V	0.88	-4.72	3	803	1810	3380	6590	11300	803	1810	3380	6590	11300						
HD 205545	21 36 47.64	-30 43 28.86	G5V	0.70	-4.48	3	167	443	975	2840	8510	167	443	975	2840	8510						
HD 205762	21 37 3.18	+19 46 57.84	G8III	0.95		4	333	476	725	1000	1360	333	476	725	1000	1360						
HD 205860	21 38 54.72	-31 54 33.47	F5V	0.50	-4.94	3	2330	4790	7840	11000	12600	2330	4790	7840	11000	12600						
HD 207359	21 38 8.40	-31 44 14.94	F7V	0.55	-4.99	3	2760	5570	8800	11600	12800	2760	5570	8800	11600	12800						
HD 205905	21 39 10.15	-27 18 23.67	G1.5IV-V	0.62	-4.54	3	259	651	1370	3590	9340	259	651	1370	3590	9340						
HD 205891	21 39 20.93	-37 08 27.77	G6V	0.68	-4.87	3	1690	3570	6120	9350	12300	1690	3570	6120	9350	12300						
HD 206069	21 39 45.09	-04 59 19.16	G3V	0.65		104	75	222	708	4150	10800	75	222	708	4150	10800						
HD 206116	21 40 11.84	-09 47 40.95	G2V	0.58	-4.95	3	2420	4950	8050	11100	12700	2420	4950	8050	11100	12700						
HD 206025	21 40 42.92	-48 42 58.42	G0V	0.56	-4.99	3	2740	5530	8750	11500	12800	2740	5530	8750	11500	12800						
HD 206332	21 40 43.05	+28 45 20.41	G0V	0.60	-4.96	3	2550	5190	8350	11300	12700	2550	5190	8350	11300	12700						
HD 207897	21 40 44.78	+84 20 0.56	K3	0.87	-4.86	3	1610	3420	5900	9150	12200	1610	3420	5900	9150	12200						
HD 206387	21 41 43.71	+06 25 15.00	G5	0.72	-4.33	151	3,4	51	162	414	1580	6520	20	87	184	459	2060	43	107	176	302	590
HD 206374	21 41 6.20	+26 45 2.40	G6.5V	0.69	-4.55	3	283	707	1470	3770	9520	283	707	1470	3770	9520						
HD 206163	21 42 16.55	-57 36 46.64	G8IV-V	0.76	-4.83	3	1410	3020	5300	8620	12100	1410	3020	5300	8620	12100						
HD 206658	21 43 18.42	+12 31 6.07	G0	0.65	-4.97	3	2610	5310	8480	11400	12800	2610	5310	8480	11400	12800						
HD 206395	21 43 2.17	-43 29 45.96	F8.5IV-V	0.56	-4.90	3	2000	4170	6990	10200	12500	2000	4170	6990	10200	12500						
Smethells 86	21 44 30.12	-60 58 38.89	MOVe	1.37		55	40	93	153	202	252	40	93	153	202	252						
HD 206860	21 44 31.33	+14 46 18.98	G0V+	0.59	-4.37	3	69	207	507	1810	6960	69	207	507	1810	6960						
HD 206667	21 44 44.80	-42 07 46.43	F8/G0V	0.58	-4.49	3	181	476	1040	2960	8660	181	476	1040	2960	8660						
* mn.01 Cyg	21 44 8.59	+28 44 33.38	F7V	0.49	-4.81	3	1270	2750	4890	8230	12000	1270	2750	4890	8230	12000						
HD 206683	21 45 11.96	-50 26 47.68	G3IV	0.66	-4.99	3	2800	5650	8890	11600	12800	2800	5650	8890	11600	12800						
HD 207485	21 45 52.64	+70 20 53.02	G5V	0.73	-4.43	3	120	333	760	2390	7890	120	333	760	2390	7890						
HD 207514	21 47 35.29	+58 16 54.87	K0V:	0.70		130	28	125	243	728	4000	28	125	243	728	4000						
HD 207043	21 47 55.29	-52 55 50.30	G5V	0.66	-4.65	3	528	1240	2410	5290	10700	528	1240	2410	5290	10700						
HD 207129	21 48 15.75	-47 18 13.02	G2V	0.60	-4.92	38	2,3	2190	4530	7490	10600	12500	793	2540	6390	10800	12700	2230	4370	7220	10400	12500
HD 207583	21 50 23.10	-16 11 47.50	G6/8V	0.73	-4.44	3	121	334	762	2390	7890	121	334	762	2390	7890						
HD 207377	21 50 23.79	-58 18 18.19	G6V	0.73	-4.62	3	432	1030	2050	4750	10300	432	1030	2050	4750	10300						
HD 207740	21 50 36.22	+28 46 1.86	G5V	0.74	-4.78	3	1070	2360	4270	7610	11800	1070	2360	4270	7610	11800						
HD 207839	21 50 37.09	+49 26 16.03	K0	0.78	-4.84	3	1500	3200	5580	8870	12200	1500	3200	5580	8870	12200						
HD 207450	21 50 4.99	-38 36 52.99	G0V	0.57	-4.49	3	177	466	1020	2920	8610	177	466	1020	2920	8610						
HD 207692	21 51 24.61	-23 16 14.24	F6V	0.49	-4.68	3	630	1450	2780	5810	11000	630	1450	2780	5810	11000						
HD 207795	21 51 39.43	+00 50 57.86	K0V	0.83	-4.85	3	1570	3330	5770	9040	12200	1570	3330	5770	9040	12200						
HD 207966	21 51 52.93	+42 20 37.95	G8+M1	0.79	-4.91	3	2110	4370	7270	10400	12500	2110	4370	7270	10400	12500						
HD 207832	21 52 36.28	-26 01 35.61	G5V	0.69	-4.66	3	557	1300	2520	5440	10800	557	1300	2520	5440	10800						
HD 207994	21 52 38.38	+25 03 18.02	G5	0.56	-4.72	3	782	1770	3310	6500	11300	782	1770	3310	6500	11300						
BD+35 4669	21 53 34.79	+35 50 54.38	G0	0.58	-4.48	3	169	446	981	2850	8520	169	446	981	2850	8520						
HD 208038	21 53 5.35	+20 55 49.87	K2.5V	0.94	-4.49	15	3,4	291	414	658	982	1340	291	414	658	982	1340					
TYC 4270-3557-1	21 55 21.23	+64 06 6.59		0.82		96	4	42	148	247	368	753	42	148	247	368	753					
HD 208272	21 55 41.99	-29 42 22.11	G9.5Vk:	0.84	-4.61	3	396	953	1910	4520	10100	396	953	1910	4520	10100						
HD 208487	21 57 19.85	-37 45 49.05	G1/3(V)	0.57	-4.81	3	1310	2840	5020	8360	12000	1310	2840	5020	8360	12000						
BD+28 4248	21 57 30.78	+28 56 13.41	G5V:	0.69	-4.63	3	452	1080	2130	4860	10400	452	1080	2130	4860	10400						
HD 208704	21 58 24.33	-12 39 52.78	G1V	0.64	-4.93	3	2260	4650	7650	10800	12600	2260	4650	7650	10800	12600						

Table 2 continued

Table 2 (continued)

HD 208776	21 58 28.42	+03 46 36.77	G3V	0.58	-4.91	3	2060	4270	7140	10300	12500	2060	4270	7140	10300	12500
HD 208906	21 58 40.83	+29 48 45.46	G0V/mF2	0.51	-4.75	3	955	2120	3890	7180	11600	955	2120	3890	7180	11600
HD 208880	21 59 8.92	+03 11 51.96	G9V	0.76	-4.87	3	1690	3580	6140	9360	12300	1690	3580	6140	9360	12300
HD 209203	22 00 2.26	+54 06 27.28	F8	0.55	-4.56	3	297	736	1520	3860	9600	297	736	1520	3860	9600
HD 209340	22 01 3.50	+55 59 55.27	G0	0.63	-4.82	3	1350	2910	5140	8470	12000	1350	2910	5140	8470	12000
HD 208998	22 01 36.52	-53 05 36.89	G0V	0.57	-4.89	3	1920	4020	6770	9970	12400	1920	4020	6770	9970	12400
HD 209253	22 02 32.96	-32 08 1.49	F6.5V	0.50	-4.34	3	53	166	422	1600	6560	53	166	422	1600	6560
V443 Lac	22 02 5.39	+44 20 35.40	G5	0.69	-4.42	3	105	295	685	2220	7640	105	295	685	2220	7640
V376 Peg	22 03 10.77	+18 53 3.55	F9V	0.59	-4.90	3	1950	4080	6850	10000	12400	1950	4080	6850	10000	12400
HD 209234	22 03 42.42	-60 26 14.85	G2V	0.62	-4.38	3	76	225	545	1900	7120	76	225	545	1900	7120
HD 209706	22 03 48.11	+55 50 57.29	F8	0.57	-4.75	3	937	2080	3830	7110	11600	937	2080	3830	7110	11600
HD 209599	22 04 19.86	+20 15 56.42	K0III	0.82	-4.88	3	1810	3810	6470	9680	12400	1810	3810	6470	9680	12400
HD 209659	22 05 35.47	-30 42 28.16	G0V	0.61	-5.00	3	2820	5670	8920	11600	12800	2820	5670	8920	11600	12800
HD 209733	22 06 10.53	-28 01 28.65	G0V	0.53	-4.51	3	212	547	1170	3220	8960	212	547	1170	3220	8960
HD 209875	22 06 33.17	+01 51 25.69	F6V	0.54	-4.81	3	1280	2770	4910	8260	12000	1280	2770	4910	8260	12000
HD 210144	22 06 41.80	+53 07 50.33	G8V	0.79	-4.98	3	2660	5400	8590	11500	12800	2660	5400	8590	11500	12800
HD 211681	22 06 49.07	+85 24 33.77	G5	0.73	-4.97	3	2630	5330	8520	11400	12800	2630	5330	8520	11400	12800
NT Aqr	22 06 5.30	-05 21 29.39	G5V	0.67	-4.45	3	137	372	838	2550	8130	137	372	838	2550	8130
HD 209913	22 07 27.41	-30 25 44.92	G8V	0.76	-5.00	3	2820	5670	8920	11600	12800	2820	5670	8920	11600	12800
HD 209653	22 07 29.96	-68 01 24.55	G0V	0.58	-4.84	3	1480	3160	5510	8810	12100	1480	3160	5510	8810	12100
HD 209635	22 07 53.32	-70 17 8.54	F8V	0.54	-4.79	3	1140	2490	4480	7820	11800	1140	2490	4480	7820	11800
HD 210323	22 08 45.77	+39 25 28.96	G0	0.63	-4.58	3	334	819	1670	4120	9830	334	819	1670	4120	9830
HD 210312	22 09 15.62	+13 40 15.19	G5	0.67	-4.98	3	2720	5500	8720	11500	12800	2720	5500	8720	11500	12800
HD 210193	22 09 34.61	-41 13 29.62	G3V	0.66	-4.84	3	1510	3220	5610	8890	12200	1510	3220	5610	8890	12200
HD 210349	22 10 32.36	-33 49 38.54	G3V	0.64	-4.64	3	487	1150	2260	5060	10500	487	1150	2260	5060	10500
HD 210272	22 10 49.67	-55 27 25.68	G3V	0.66	-4.99	3	2740	5540	8760	11500	12800	2740	5540	8760	11500	12800
* tau PsA	22 10 8.78	-32 32 54.28	F6V	0.49	-4.82	3	1360	2920	5150	8480	12100	1360	2920	5150	8480	12100
HD 210667	22 11 11.91	+36 15 22.77	G9V	0.81	-4.53	1	3,4	249	630	1330	3510	249	630	1330	3510	9270
HD 210855	22 11 48.77	+56 50 21.67	F8V	0.53	-4.85	3	1550	3310	5730	9000	12200	1550	3310	5730	9000	12200
HD 210750	22 12 13.39	+13 29 19.58	G2.5V	0.69	-4.69	68	4	149	365	788	2850	149	365	788	2850	9330
HD 210752	22 12 43.54	-06 28 8.12	G1V	0.54	-4.91	3	2050	4260	7120	10300	12500	2050	4260	7120	10300	12500
HD 211476	22 17 15.14	+12 53 54.56	G2	0.60	-4.86	3	1660	3500	6030	9260	12300	1660	3500	6030	9260	12300
HD 211467	22 17 54.67	-32 28 43.83	G6V	0.72	-4.92	3	2190	4530	7490	10600	12500	2190	4530	7490	10600	12500
HD 211366	22 17 8.51	-30 09 13.19	G5V	0.66	-4.87	3	1710	3600	6170	9400	12300	1710	3600	6170	9400	12300
HD 211415	22 18 15.61	-53 37 37.47	G0V	0.61	-4.82	3	1350	2910	5130	8470	12000	1350	2910	5130	8470	12000
HD 211567	22 18 9.25	-01 07 20.29	G5V	0.63	-4.91	3	2100	4360	7250	10400	12500	2100	4360	7250	10400	12500
HD 211976	22 20 55.80	+08 11 12.27	F5V	0.45	-4.73	3	823	1850	3450	6670	11400	823	1850	3450	6670	11400
V383 Lac	22 20 7.03	+49 30 11.76	K1V	0.84	-4.07	264	1,2,3	3	18	89	628	3	18	89	628	3990
HD 212036	22 22 13.63	-39 49 12.53	G5V	0.68	-4.86	3	1630	3450	5950	9190	12300	1630	3450	5950	9190	12300
HD 212146	22 22 47.29	-29 37 10.48	G8V	0.75	-4.92	3	2190	4530	7490	10600	12500	2190	4530	7490	10600	12500
HD 212315	22 22 49.93	+33 35 44.95	F8	0.50	-4.69	3	660	1510	2890	5950	11000	660	1510	2890	5950	11000
BD+45 3901	22 22 8.06	+46 10 54.58	G5	0.82	-4.77	68	4	71	221	315	481	71	221	315	481	987
HD 212231	22 23 14.47	-25 50 32.23	G2V	0.61	-4.91	3	2090	4340	7230	10400	12500	2090	4340	7230	10400	12500
HD 212291	22 23 9.17	+09 27 39.90	G5	0.68	-4.79	3	1130	2480	4460	7800	11800	1130	2480	4460	7800	11800
HD 212585	22 24 37.85	+39 25 50.70	K0	0.67	-4.41	69	3,4	103	290	675	2200	167	408	1020	4130	10600
HD 212168	22 25 51.15	-75 00 56.48	G0V	0.60	-4.86	3	1630	3460	5970	9210	12300	1630	3460	5970	9210	12300
HD 212735	22 26 21.54	+10 45 27.20	G5	0.76	-4.93	3	2270	4670	7680	10800	12600	2270	4670	7680	10800	12600
* 53 Aqr B	22 26 34.27	-16 44 29.72	G3V	0.71	-4.46	3	145	391	874	2630	8240	145	391	874	2630	8240
* 53 Aqr A	22 26 34.30	-16 44 31.90	G2V	0.68	-4.47	3	154	412	915	2710	8350	154	412	915	2710	8350

Table 2 continued

Table 2 (continued)

* 34 Peg	22 26 37.37	+04 23 37.61	F7V	0.52	-4.96	3	2530	5160	8300	11300	12700	2530	5160	8300	11300	12700	
HD 212580	22 27 2.39	-62 31 28.56	K1Vr:	0.87	-4.86	3	1640	3470	5980	9220	12300	1640	3470	5980	9220	12300	
HD 213240	22 31 0.37	-49 25 59.77	G0/IV	0.60	-4.92	3	2150	4450	7390	10600	12500	2150	4450	7390	10600	12500	
HD 213429	22 31 18.33	-06 33 19.07	F8V	0.54	-4.74	3	903	2010	3720	6990	11500	903	2010	3720	6990	11500	
HD 213241	22 31 4.31	-50 23 46.84	F5V	0.46	-4.87	3	1720	3630	6220	9440	12300	1720	3630	6220	9440	12300	
HD 213519	22 31 5.72	+45 08 42.35	G5	0.65	-4.96	3	2540	5180	8340	11300	12700	2540	5180	8340	11300	12700	
HD 213628	22 33 30.69	-35 26 40.37	G8V	0.72	-4.99	3	2760	5580	8800	11600	12800	2760	5580	8800	11600	12800	
HD 213717	22 34 10.79	-43 04 3.82	G8/K0V	0.82	-4.95	3	2480	5060	8190	11200	12700	2480	5060	8190	11200	12700	
HD 213401	22 35 15.60	-78 36 50.69	G5IV/V(+F/G)	0.67	-4.89	3	1890	3960	6690	9890	12400	1890	3960	6690	9890	12400	
HD 213885	22 35 56.32	-59 51 52.08	G0/2V	0.61	-4.83	3	1390	3000	5270	8590	12100	1390	3000	5270	8590	12100	
HD 213941	22 36 7.70	-54 36 38.23	G8VFe-1.3	0.67	-4.96	3	2500	5100	8240	11200	12700	2500	5100	8240	11200	12700	
HD 214385	22 38 11.02	-27 26 36.37	G8VFe-1.2	0.64	-4.87	3	1760	3710	6330	9550	12300	1760	3710	6330	9550	12300	
HD 214557	22 38 11.63	+45 49 40.09	F8	0.58	-4.95	3	2420	4950	8050	11100	12700	2420	4950	8050	11100	12700	
* 64 Aqr	22 39 16.04	-10 01 40.17	G2/3IV/V	0.62	-4.93	3	2250	4640	7650	10800	12600	2250	4640	7650	10800	12600	
HD 214722	22 40 12.45	-06 32 4.09	G3/5V	0.69	-4.93	16	4	937	2540	6460	10800	12700	937	2540	6460	10800	12700
HD 214823	22 40 19.87	+31 47 15.35	G0	0.63	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800	
HD 235929	22 40 44.01	+53 55 2.44	G0	0.73	-4.98	80	4	70	234	385	833	2990	70	234	385	833	2990
HR 8629	22 40 47.96	-03 33 15.28	G9VFe-0.7	0.52	-4.48	3	167	442	973	2830	8500	167	442	973	2830	8500	
HD 214759	22 40 55.17	-31 59 24.21	K0IV-V	0.79	-4.98	3	2680	5420	8620	11500	12800	2680	5420	8620	11500	12800	
HD 215032	22 42 21.97	-06 52 16.06	G2V	0.61	-4.63	3	463	1100	2170	4920	10400	463	1100	2170	4920	10400	
HD 214953	22 42 36.88	-47 12 38.92	F9.5V	0.58	-4.86	3	1630	3460	5960	9200	12300	1630	3460	5960	9200	12300	
CPD-72 2713	22 42 48.93	-71 42 21.20	K7Ve	1.31	-4.40	440	2	2	6	14	70	182	2	6	14	70	182
HD 215274	22 43 40.47	+30 05 33.04	G5V	0.70	-4.55	3	280	700	1460	3750	9500	280	700	1460	3750	9500	
HD 215500	22 44 5.83	+64 34 14.42	G8V	0.72	-4.91	3	2090	4330	7210	10400	12500	2090	4330	7210	10400	12500	
TX Psa	22 45 0.06	-33 15 26.10	M5IVe	1.57	-4.50	450	2	1	2	6	11	31	1	2	6	11	31
HD 215704	22 46 20.38	+50 12 35.88	K0	0.80	-4.82	3	1370	2950	5200	8530	12100	1370	2950	5200	8530	12100	
* ksi Peg	22 46 41.58	+12 10 22.39	F6V	0.50	-4.93	3	2210	4570	7540	10700	12600	2210	4570	7540	10700	12600	
HD 215625	22 46 50.25	-20 47 26.02	G0V	0.53	-4.88	3	1820	3830	6500	9700	12400	1820	3830	6500	9700	12400	
HD 215696	22 47 20.75	-16 08 46.91	G1V	0.68	-4.91	3	2040	4240	7090	10300	12500	2040	4240	7090	10300	12500	
HD 215657	22 47 26.74	-44 57 54.58	G0V	0.60	-4.40	3	95	272	640	2120	7490	95	272	640	2120	7490	
HD 215641	22 47 9.33	-32 40 31.64	G8V	0.74	-4.53	3	240	609	1290	3440	9200	240	609	1290	3440	9200	
HD 215768	22 48 6.92	-37 45 23.98	G0VCH-0.3	0.59	-4.42	3	107	301	698	2250	7680	107	301	698	2250	7680	
HD 216008	22 49 46.10	-37 51 16.10	G2/3V	0.64	-4.84	3	1490	3180	5540	8830	12200	1490	3180	5540	8830	12200	
HD 216083	22 49 56.15	-02 49 18.46	G1V	0.64	-4.89	3	1890	3970	6700	9890	12400	1890	3970	6700	9890	12400	
HD 216175	22 49 57.09	+50 01 0.04	G5	0.59	-4.65	3	509	1200	2340	5180	10600	509	1200	2340	5180	10600	
HD 216054	22 50 10.53	-41 29 24.38	G9V	0.74	-4.98	3	2720	5500	8710	11500	12800	2720	5500	8710	11500	12800	
HD 216191	22 50 14.26	+36 42 14.79	K2	0.86	-4.96	3	2500	5100	8230	11200	12700	2500	5100	8230	11200	12700	
HD 216275	22 50 46.35	+52 03 41.17	G0	0.59	-4.78	3	1070	2360	4270	7610	11800	1070	2360	4270	7610	11800	
HD 216013	22 50 47.38	-65 42 51.06	G8V	0.74	-4.48	3	164	435	960	2810	8470	164	435	960	2810	8470	
HD 216320	22 50 59.03	+54 08 32.48	K0	0.82	-4.73	3	841	1890	3510	6740	11400	841	1890	3510	6740	11400	
HD 216259	22 51 26.36	+13 58 11.94	K2.5V	0.84	-4.96	3	2550	5200	8350	11300	12700	2550	5200	8350	11300	12700	
HD 216402	22 52 46.51	-10 03 31.93	F8V	0.52	-4.82	3	1360	2930	5160	8500	12100	1360	2930	5160	8500	12100	
* tau01 Gru	22 53 37.93	-48 35 53.82	G0V	0.62	-4.97	3	2640	5360	8550	11400	12800	2640	5360	8550	11400	12800	
HD 216531	22 54 16.24	-45 53 19.28	G0V	0.59	-4.72	3	808	1820	3400	6610	11400	808	1820	3400	6610	11400	
HD 216772	22 54 23.38	+64 06 54.51	G0	0.58	-4.77	3	1020	2250	4090	7410	11700	1020	2250	4090	7410	11700	
HD 216625	22 54 7.41	+19 53 31.38	F8	0.53	-4.82	3	1370	2950	5200	8520	12100	1370	2950	5200	8520	12100	
BD+30 4842	22 55 30.92	+31 33 15.18	G5	0.74	-4.96	3	2520	5150	8290	11300	12700	2520	5150	8290	11300	12700	
HD 216783	22 55 4.01	+49 28 23.82	G0	0.61	-4.85	3	1530	3270	5680	8950	12200	1530	3270	5680	8950	12200	
HD 216770	22 55 53.71	-26 39 31.55	G9VCN+1	0.82	-4.92	3	2200	4550	7520	10700	12500	2200	4550	7520	10700	12500	

Table 2 continued



Table 2 (continued)

* 51 Peg	22 57 27.98	+20 46 7.78	G2IV	0.67	-4.99	3	2770	5590	8810	11600	12800	2770	5590	8810	11600	12800
HD 216970	22 57 41.41	-33 12 11.12	G6V	0.59	-4.39	3	88	254	604	2040	7350	88	254	604	2040	7350
HD 217025	22 58 17.84	-41 51 26.24	KIIIV-V	0.85	-4.05	3	527	1230	2410	5280	10700	527	1230	2410	5280	10700
HD 217165	22 58 29.88	+09 49 32.01	G0	0.62	-4.88	3	1850	3880	6570	9770	12400	1850	3880	6570	9770	12400
HD 217166	22 58 35.08	+09 21 24.68	G5VFe-0.8	0.64	-4.86	3	1670	3530	6070	9300	12300	1670	3530	6070	9300	12300
HD 217084	22 58 36.41	-45 31 9.55	G3V	0.64	-4.83	3	1410	3030	5320	8640	12100	1410	3030	5320	8640	12100
HD 217523	22 59 25.37	+72 42 43.51	F5	0.55	-4.76	3	974	2160	3950	7250	11600	974	2160	3950	7250	11600
HD 217343	23 00 19.29	-26 09 13.51	G5V	0.66	-4.27	3	29	100	280	1230	5760	29	100	280	1230	5760
HD 217487	23 01 42.10	-51 28 6.15	KIV+k:	0.83	-4.68	3	627	1450	2770	5790	11000	627	1450	2770	5790	11000
HD 217813	23 03 4.98	+20 55 6.86	G1V	0.62	-4.43	3	120	331	756	2380	7870	120	331	756	2380	7870
HD 217877	23 03 57.27	-04 47 41.50	G0-V	0.58	-4.85	3	1580	3350	5800	9060	12200	1580	3350	5800	9060	12200
HD 217816	23 03 59.71	-46 10 3.71	G0V	0.50	-4.73	3	840	1890	3510	6740	11400	840	1890	3510	6740	11400
HD 218168	23 04 2.20	+74 28 38.72	G5	0.63	-4.46	67	3,4	145	391	874	2630	244	698	2460	7760	12100
HD 217958	23 04 32.87	-25 41 27.99	G3V	0.66	-4.91	3	2080	4320	7200	10400	12500	2080	4320	7200	10400	12500
HD 218133	23 05 31.16	+14 27 6.02	G0	0.60	-4.95	3	2450	5000	8120	11200	12700	2450	5000	8120	11200	12700
HD 218209	23 05 6.09	+68 25 1.43	G8	0.65	-4.83	3	1440	3090	5420	8720	12100	1440	3090	5420	8720	12100
HD 218235	23 06 18.14	+18 31 3.95	F6Vs	0.48	-4.55	3	281	701	1460	3750	9500	281	701	1460	3750	9500
HD 218261	23 06 31.89	+19 54 39.07	F6V	0.53	-4.58	3	326	801	1640	4070	9780	326	801	1640	4070	9780
HIP 114110	23 06 38.95	-14 52 20.16		0.64	-4.90	3	1960	4090	6870	10100	12400	1960	4090	6870	10100	12400
* tet Gru C	23 06 39.16	-43 30 13.45	G2V	0.61	-4.56	3	298	739	1530	3880	9610	298	739	1530	3880	9610
HD 218354	23 06 53.69	+38 14 36.83	G5	0.70	-4.90	3	1980	4130	6930	10100	12400	1980	4130	6930	10100	12400
HD 218445	23 08 15.89	-17 03 33.75	G3V	0.71	-4.94	3	2370	4860	7930	11000	12700	2370	4860	7930	11000	12700
HD 218379	23 08 36.58	-63 52 17.70	G3V	0.63	-4.94	3	2330	4790	7840	11000	12600	2330	4790	7840	11000	12600
HD 218483	23 08 50.09	-42 27 5.00	K1V	0.84	-4.59	3	369	895	1810	4350	10000	369	895	1810	4350	10000
HD 218522	23 08 51.53	-25 49 50.20	F6VFe-0.7CH-0.4	0.48	-4.60	3	374	905	1830	4380	10000	374	905	1830	4380	10000
V367 Cep	23 08 58.73	+62 48 56.03	K2	1.11		12	4					237	349	489	657	827
HD 218687	23 09 57.10	+14 25 35.60	G0V	0.61	-4.37	3	69	206	506	1810	6960	69	206	506	1810	6960
KZ And	23 09 57.36	+47 57 30.04	K2-Ve	0.88	-4.47	3	152	407	906	2700	8330	152	407	906	2700	8330
HD 218630	23 09 57.36	-42 51 40.53	F5V	0.47	-4.43	3	120	332	760	2390	7890	120	332	760	2390	7890
HD 218739	23 09 58.87	+47 57 33.85	G1V	0.65	-4.49	3	177	466	1020	2930	8620	177	466	1020	2930	8620
HD 218730	23 10 24.72	-07 48 43.18	G0V	0.60	-4.79	3	1170	2550	4570	7910	11900	1170	2550	4570	7910	11900
HD 218868	23 10 50.08	+45 30 44.18	G8V	0.75	-4.79	1	3,4	1180	2580	4620	7970	1180	2580	4620	7970	11900
HD 219396	23 12 9.54	+82 23 40.59	G0	0.70	-4.87	3	1730	3650	6240	9460	12300	1730	3650	6240	9460	12300
BD+38 4955	23 13 38.82	+39 25 2.60	F6	0.66	-4.43	3	120	332	759	2390	7880	120	332	759	2390	7880
HD 219172	23 13 48.23	+15 22 3.48	F8V	0.56	-4.76	3	998	2210	4030	7340	11700	998	2210	4030	7340	11700
HD 219175	23 14 7.48	-08 55 27.58	F7V	0.56	-4.90	3	1940	4050	6820	10000	12400	1940	4050	6820	10000	12400
HD 219175B	23 14 7.57	-08 55 52.22	G0V	0.67	-4.87	3	1700	3580	6150	9370	12300	1700	3580	6150	9370	12300
HD 219428	23 15 13.38	+52 21 6.96	G0	0.61	-4.46	3	149	401	894	2670	8290	149	401	894	2670	8290
HD 219420	23 15 40.28	+01 18 29.87	F7V	0.54	-4.86	3	1690	3560	6110	9340	12300	1690	3560	6110	9340	12300
HD 219249	23 15 9.68	-56 43 45.18	G7V	0.87	-4.99	3	2790	5630	8860	11600	12800	2790	5630	8860	11600	12800
HD 219538	23 16 18.16	+30 40 12.74	K2V	0.70	-4.87	3	1700	3600	6170	9390	12300	1700	3600	6170	9390	12300
HD 219542	23 16 35.24	-01 35 11.48	G(5)+(A)	0.65	-4.83	3	1440	3080	5400	8710	12100	1440	3080	5400	8710	12100
HD 219623	23 16 42.30	+53 12 48.51	F8V	0.51	-4.88	3	1840	3850	6530	9740	12400	1840	3850	6530	9740	12400
HD 219498	23 16 5.03	+22 10 34.82	G5	0.65	-4.28	3	31	107	293	1270	5840	31	107	293	1270	5840
HD 219482	23 16 57.69	-62 00 4.32	F6V	0.52	-4.37	3	74	220	535	1880	7080	74	220	535	1880	7080
HD 219617	23 17 5.04	-13 51 3.60	F8	0.46	-4.62	3	427	1020	2030	4720	10300	427	1020	2030	4720	10300
HD 219770	23 18 18.40	+07 50 6.37	G0	0.62	-4.80	3	1220	2650	4740	8080	11900	1220	2650	4740	8080	11900
HD 219781	23 18 23.45	+12 06 48.47	G5	0.71	-4.96	3	2540	5170	8320	11300	12700	2540	5170	8320	11300	12700
HD 219709	23 18 36.68	-58 18 22.86	G1V	0.63	-4.63	3	471	1110	2200	4970	10500	471	1110	2200	4970	10500

Table 2 continued

Table 2 (continued)

HD 219828	23 18 46.73	+18 38 44.62	G0IV	0.65	-4.89	3	1870	3930	6640	9840	12400	1870	3930	6640	9840	12400
HD 220140	23 19 26.64	+79 00 12.67	G9V	0.89	-4.12	1.2	5	27	114	717	4300	15	61	120	227	340
BD+41 4749	23 19 39.56	+42 15 9.83	G0	0.73		4	185					18	78	169	362	1310
BD+38 4982	23 20 52.89	+39 44 46.52	K2	0.92		20	4					268	389	615	972	1330
HD 220077	23 20 52.93	+16 42 38.56	F7V	0.56	-4.80	3	1210	2640	4720	8060	11900	1210	2640	4720	8060	11900
HD 220182	23 21 36.51	+44 05 52.38	G9V	0.80	-4.35	3	61	188	468	1720	6790	61	188	468	1720	6790
HD 220221	23 21 44.45	+45 10 33.79	K3V(k)	1.05	-4.56	4	3.4					336	443	559	680	795
HD 220339	23 23 4.90	-10 45 51.28	K2V	0.88	-4.87	3	1720	3640	6220	9440	12300	1720	3640	6220	9440	12300
HD 220426	23 23 47.89	-33 22 44.07	F8/G0V	0.58	-4.96	3	2530	5150	8300	11300	12700	2530	5150	8300	11300	12700
HD 220367	23 24 18.83	-72 09 54.70	G0V	0.54	-4.82	3	1330	2860	5060	8390	12000	1330	2860	5060	8390	12000
BD-04 5881	23 24 4.71	-03 38 51.50	G8	0.70	-4.95	3	2420	4950	8050	11100	12700	2420	4950	8050	11100	12700
NX Aqr	23 24 6.34	-07 33 2.73	G5V	0.68	-4.40	3	89	257	608	2050	7370	89	257	608	2050	7370
HD 220689	23 25 52.99	-20 36 57.70	G3V	0.60	-4.90	3	1940	4050	6830	10000	12400	1940	4050	6830	10000	12400
HD 220908	23 27 10.03	+54 51 58.43	F8V	0.57	-4.74	3	907	2020	3730	7000	11500	907	2020	3730	7000	11500
HD 220928	23 27 57.06	-26 27 15.95	G1/2V	0.59	-4.88	3	1780	3740	6380	9590	12300	1780	3740	6380	9590	12300
* 12 Psc	23 29 30.32	-01 02 9.23	G1V	0.62	-4.96	3	2490	5080	8210	11200	12700	2490	5080	8210	11200	12700
HD 221149	23 29 36.34	-06 50 8.72	G1/2V	0.67	-4.94	3	2350	4830	7890	11000	12700	2350	4830	7890	11000	12700
HD 221257	23 30 40.15	-24 11 45.70	G3V	0.64	-4.88	3	1850	3870	6570	9770	12400	1850	3870	6570	9770	12400
HD 221275	23 30 54.06	-35 06 23.43	G9VCN+1	0.80	-4.78	3	1080	2380	4300	7630	11800	1080	2380	4300	7630	11800
HD 221281	23 31 2.85	-69 04 36.26	G1V	0.59	-4.47	3	162	431	951	2790	8440	162	431	951	2790	8440
HD 221356	23 31 31.50	-04 05 14.66	F7V	0.53	-4.95	3	2460	5040	8150	11200	12700	2460	5040	8150	11200	12700
HD 221343	23 31 44.26	-53 46 11.82	G2V	0.66	-4.63	3	469	1110	2190	4960	10500	469	1110	2190	4960	10500
BD-13 6424	23 32 30.86	-12 15 51.47	M0Ve	1.74		185	2					3	10	14	24	65
HD 221539	23 32 45.48	+50 17 44.57	K0	0.68		30	4					625	1660	4910	10000	12600
HD 221561	23 33 12.05	-06 24 2.11	F8V	0.54	-4.90	3	2000	4170	6990	10200	12500	2000	4170	6990	10200	12500
HD 221575	23 33 23.83	-12 39 52.62	K2V	0.89	-4.47	3	161	428	946	2780	8430	161	428	946	2780	8430
HD 221613	23 33 24.06	+42 50 47.79	G0	0.58	-4.86	15	2	1620	3430	5920	9170	1620	3430	5920	9170	12200
BD+00 5017	23 35 0.28	+01 36 19.43	K7V	1.35		15	2					98	217	304	410	500
HD 221822	23 35 23.14	+02 13 31.18	G8V	0.72	-4.97	27	4					2630	5340	8530	11400	12800
HD 221945	23 35 24.39	+76 39 11.25	G	0.57		27	4					1060	3490	7650	11300	12800
HD 221851	23 35 25.61	+31 09 40.71	K1V	0.85	-4.67	0	3.4	587	1360	2630	5590	587	1360	2630	5590	10800
HD 221830	23 35 28.89	+31 01 1.83	G2	0.60	-4.98	3	2730	5510	8730	11500	12800	2730	5510	8730	11500	12800
HD 221818	23 35 34.96	-46 56 41.52	G9V	0.78	-4.55	3	273	684	1430	3690	9440	273	684	1430	3690	9440
HD 221839	23 35 40.05	-27 29 25.87	F7V+G3V	0.56	-4.42	3	106	298	691	2240	7660	106	298	691	2240	7660
HD 222038	23 37 17.39	-01 31 11.38	G6V	0.78	-4.95	3	2410	4930	8030	11100	12700	2410	4930	8030	11100	12700
HD 222143	23 37 58.49	+46 11 57.96	G2	0.67	-4.50	3	190	496	1080	3040	8750	190	496	1080	3040	8750
HD 222033	23 37 6.63	+30 40 40.89	G0V	0.62	-4.92	3	2180	4500	7460	10600	12500	2180	4500	7460	10600	12500
V460 Cep	23 38 1.64	+65 26 2.25	K0	1.12		58	4					43	131	231	284	374
KT Peg	23 39 30.97	+28 14 47.41	G8	0.74	-4.55	3	281	702	1460	3750	9500	281	702	1460	3750	9500
HD 222259	23 39 39.48	-69 11 44.71	G6V+K3Ve	0.78	-4.06	3	3	17	88	625	3970	3	17	88	625	3970
HD 222335	23 39 51.31	-32 44 36.27	G9.5V	0.80	-4.84	3	1500	3200	5570	8860	12200	1500	3200	5570	8860	12200
BD+46 4118	23 39 53.58	+47 33 14.21	F8	0.56		55	4					511	1910	5570	10400	12600
* iot Psc	23 39 57.04	+05 37 34.65	F7V	0.50	-4.83	3	1450	3100	5430	8740	12100	1450	3100	5430	8740	12100
BD+63 2030a	23 39 57.54	+64 18 45.84		0.57		107	4					93	422	2860	8790	12300
HD 222391	23 40 3.42	+26 48 7.15	G0III	0.58	-4.85	3	1570	3340	5790	9050	12200	1570	3340	5790	9050	12200
HD 222422	23 40 37.85	-18 59 20.02	G5V	0.73	-4.87	3	1700	3590	6150	9370	12300	1700	3590	6150	9370	12300
BD+82 733	23 40 57.99	+82 52 19.35	K2	1.06		3	4					342	445	561	680	794
HD 240360	23 41 4.38	+59 24 8.23	K0	0.66		98	4					78	230	608	3250	10200
HD 222582	23 41 51.53	-05 59 8.73	G5V	0.65	-4.91	3	2060	4290	7150	10300	12500	2060	4290	7150	10300	12500

Table 2 continued

Table 2 (continued)

HD 222480	23 41 8.35	-32 04 16.53	G1V	0.67	-4.94	3	2330	4780	7830	11000	12600	2330	4780	7830	11000	12600						
HD 222595	23 42 12.66	-53 25 23.95	G5V	0.70	-4.86	3	1680	3560	6110	9340	12300	1680	3560	6110	9340	12300						
HD 222697	23 42 56.55	+00 14 23.05	G8V	0.81	-4.58	3	328	805	1650	4080	9790	328	805	1650	4080	9790						
HD 222743	23 43 39.82	-63 57 39.51	F8V	0.56	-4.90	3	1970	4110	6900	10100	12400	1970	4110	6900	10100	12400						
HD 222669	23 43 57.36	-82 30 30.60	G1V	0.61	-4.86	3	1610	3420	5910	9160	12200	1610	3420	5910	9160	12200						
HD 222986	23 45 35.02	+40 26 36.61	G5	0.68	-4.42	70	3,4	108	303	701	2260	7690	154	378	889	3500	10100	168	310	499	835	1920
HD 223084	23 46 34.10	-08 59 49.23	F9V	0.55	-4.62	3	440	1050	2080	4790	10300	440	1050	2080	4790	10300						
HD 223046	23 46 4.12	+50 39 47.33	K0	0.96		11	4					303	430	670	962	1300	303	430	670	962	1300	
HD 223238	23 47 52.41	+04 10 31.72	G5V	0.63	-4.95	3	2440	4990	8100	11200	12700	2440	4990	8100	11200	12700						
HD 223282	23 48 21.32	-27 53 50.99	G8.5V	0.77	-4.77	3	1750	3690	6300	9510	12300	1750	3690	6300	9510	12300						
HD 223315	23 48 36.93	-15 12 38.28	G5V	0.74	-4.79	3	1140	2490	4480	7820	11800	1140	2490	4480	7820	11800						
BD+31 4971	23 48 4.39	+32 36 23.22	G5	0.69	-4.96	3	2520	5130	8270	11300	12700	2520	5130	8270	11300	12700						
HD 223346	23 48 49.37	+02 12 51.89	F5V	0.45	-4.09	3	4	22	99	666	4140	4	22	99	666	4140						
HD 223408	23 49 19.53	-27 51 15.33	F6V	0.51	-4.33	3	51	161	410	1580	6500	51	161	410	1580	6500						
HD 223515	23 50 14.90	-29 24 6.23	K0V	0.84	-4.75	3	945	2100	3860	7150	11600	945	2100	3860	7150	11600						
HD 223551	23 50 34.38	-51 42 19.49	G8/K0V	0.76	-4.52	3	229	584	1240	3360	9100	229	584	1240	3360	9100						
HD 223537	23 50 55.17	-79 53 54.86	G3V	0.67	-4.33	3	51	162	412	1580	6510	51	162	412	1580	6510						
HD 223649	23 51 13.99	+62 35 33.45	F8	0.60		33	4					897	2840	6810	11000	12700	897	2840	6810	11000	12700	
HD 223848	23 52 56.22	+36 57 15.32	G0	0.57	-4.90	3	1950	4080	6860	10000	12400	1950	4080	6860	10000	12400						
HD 223913	23 53 39.88	-65 56 49.69	G0V	0.59	-4.51	3	209	538	1160	3190	8930	209	538	1160	3190	8930						
HD 223957	23 53 57.15	-30 21 25.29	G2V	0.61	-4.62	3	435	1040	2060	4760	10300	435	1040	2060	4760	10300						
HD 224010	23 54 36.67	-60 20 57.65	G3V	0.63	-5.00	3	2820	5680	8930	11600	12800	2820	5680	8930	11600	12800						
HD 224022	23 54 38.62	-40 18 0.22	G0V	0.57	-4.89	3	1940	4050	6810	10000	12400	1940	4050	6810	10000	12400						
HD 224040	23 54 38.98	-23 01 56.21	F3/5V	0.46	-4.72	3	801	1810	3370	6580	11300	801	1810	3370	6580	11300						
HD 224143	23 55 34.97	-20 57 11.39	G1V	0.64	-4.49	3	189	492	1070	3020	8730	189	492	1070	3020	8730						
HD 224228	23 56 10.67	-39 03 8.41	K2V	0.98	-4.46	53	1,3					69	199	286	364	582	69	199	286	364	582	
HD 224319	23 57 1.29	-67 35 39.74	G2V	0.64	-4.43	3	119	329	753	2370	7860	119	329	753	2370	7860						
HD 224376	23 57 27.87	-58 57 52.15	F5V	0.49	-4.68	3	628	1450	2770	5800	11000	628	1450	2770	5800	11000						
HD 224383	23 57 33.52	-09 38 51.07	G3V	0.64	-4.95	3	2450	5010	8120	11200	12700	2450	5010	8120	11200	12700						
HD 224393	23 57 35.44	-65 46 32.03	G5VFe-0.9	0.61	-4.75	3	940	2090	3840	7130	11600	940	2090	3840	7130	11600						
HD 224433	23 57 50.14	-30 26 52.59	G8V	0.75	-4.98	3	2700	5470	8680	11500	12800	2700	5470	8680	11500	12800						
BD+66 1664	23 58 10.67	+67 33 59.71	G5	0.71		8	4					1070	2860	6850	11000	12700	1070	2860	6850	11000	12700	
HD 224473	23 58 11.88	+70 33 22.49	G0	0.58		11	4					1240	4040	8250	11600	12800	1240	4040	8250	11600	12800	
HD 224464	23 58 13.16	-57 11 48.26	F6IV	0.47	-4.81	3	1300	2810	4970	8320	12000	1300	2810	4970	8320	12000						
HD 224449	23 58 2.83	-01 58 48.12	G5/6IV	0.72	-4.75	3	922	2050	3780	7060	11600	922	2050	3780	7060	11600						
HD 224538	23 58 51.76	-61 35 12.38	F8/G0IV/V	0.58	-4.88	3	1830	3840	6520	9720	12400	1830	3840	6520	9720	12400						
HD 224601	23 59 14.43	+43 51 48.61	F8	0.54	-4.87	3	1720	3630	6210	9430	12300	1720	3630	6210	9430	12300						
HD 224618	23 59 27.88	-16 56 40.93	K0V	0.73	-4.93	3	2220	4580	7560	10700	12600	2220	4580	7560	10700	12600						
HD 224693	23 59 53.83	-22 25 41.22	G2V	0.64	-5.00	3	2810	5670	8910	11600	12800	2810	5670	8910	11600	12800						

References—(1) Nielsen &amp; Close (2010), (2) Brandt et al. (2014a), (3) Boro Saikia et al. (2018), (4) Guillout et al. (2009)

NOTE—RA and Dec from Simbad online services. Table 2 is published in its entirety in machine-readable format.

## 6. CONCLUSION

We have implemented a Bayesian framework, **BAFFLES**, for determining the posterior probability density function on stellar age from measurements of  $R'_{HK}$  calcium emission and/or  $B - V$  color and Li EW lithium abundance. Importantly, **BAFFLES** properly incorporates astrophysical scatter and physical priors. In developing this framework:

1. We empirically determine the evolution over time of spectral indicators  $R'_{HK}$  and Li EW for clusters of stars with well-characterized isochronal ages.
2. Using these benchmark clusters, we derive a numerical prior to derive age as a function of  $R'_{HK}$  for stars with  $0.45 \leq B-V \leq 0.9$  and age as a function of  $B - V$  and Li EW for  $0.35 \leq B-V \leq 1.9$ .
3. From our tests, the method appears self-consistent and produces robust posteriors on age, though the uncertainty on ages derived from calcium may be slightly underestimated.

Looking ahead to future space missions, accurate ages become increasingly important. In the next few years *Gaia* is expected to discover thousands of exoplanets and brown dwarfs from measuring precise astrometry of host stars (Perryman et al. 2014). *The James Webb Space Telescope* (JWST), planned to launch in 2021, should be able to survey the nearest and youngest of these *Gaia* targets to directly image the orbiting planets in the thermal infrared, where intermediate age ( $\sim 100$  Myr - 1 Gyr) planets have more favorable contrasts

than the near infrared (Beichman et al. 2019). Likewise the European Extremely Large Telescope (E-ELT) (e.g. Tamai et al. 2016), Thirty Meter Telescope (TMT) (e.g. Simard et al. 2016), and Giant Magellan Telescope (GMT) (e.g. Fanson et al. 2018) will in the near future advance our ability to directly image exoplanets. For the next generation of telescopes, we will need stellar ages to help choose the targets for observing, since for direct imaging younger planets are more luminous and so easier to detect and characterize. Similarly, when exoplanets are discovered, the ages of the host stars will allow mass determination for the self-luminous stellar companions. Additionally, significant evolution of planetary systems is predicted over hundreds of Myr (Chiang & Murray 2002; Ford & Rasio 2008; Frelikh et al. 2019), and having a large number of giant planet systems with well-characterized ages will allow these predictions to be directly tested. **BAFFLES** will fill a unique role in producing robust age posteriors in a uniform way for lower-mass field stars.

We thank Eric Mamajek for helpful conversations that improved this manuscript, and for compiling “The Lithium Plot”<sup>2</sup>, which inspired some of this work. This research has made use of the SIMBAD and VizieR databases, operated at CDS, Strasbourg, France. R.D. acknowledges support from the Fonds de Recherche du Québec. Supported by NSF grants AST-1411868 (E.L.N., B.M.), and AST-1518332 (R.D.R.). Supported by NASA grants NNX14AJ80G (E.L.N., B.M.), NNX15AC89G and NNX15AD95G (B.M., R.J.D.R.).

*Software:* Astropy (Astropy Collaboration et al. 2013), SciPy (Jones et al. 2001–)

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<sup>2</sup> <http://www.pas.rochester.edu/~emamajek/images/li.jpg>

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## APPENDIX

A.  $B - V$  REFERENCES**Table 3.**  $B - V$  references for AB Dor, Tuc/Hor, and  $\beta$  Pic.

Name	SpT	Moving Group	$B - V$	ref
GSC 08894-00426	M5Ve	AB Dor	1.551	10,9
HD 217343	G5V	AB Dor	0.64	2
HD 218860	G8V	AB Dor	0.738	2,9
HD 224228	K2V	AB Dor	0.985	7
HD 35650	K6V	AB Dor	1.311	7,9
HD 45270	G1V	AB Dor	0.602	7
HD 65569	F5III	AB Dor	0.42	2
HIP 14809	G5	AB Dor	0.63	2
HIP 17695	M3.0V	AB Dor	1.511	7,9
HIP 26369	K6Ve	AB Dor	1.205	7
HIP 31878	K7V(e)	AB Dor	1.297	7,9
HIP 6276	G9V	AB Dor	0.8	2
HR 2468	G1/2V	AB Dor	0.62	6
UY Pic	K0V	AB Dor	1.094	2,9
V372 Pup	M1Ve	AB Dor	1.402	7,9
CD-53 544	K6Ve	Tuc/Hor	1.209	2,10
CD-60 416	K5Ve	Tuc/Hor	1.0	2
CPD-64 120	K1Ve	Tuc/Hor	0.807	2,9
HD 13183	G7V	Tuc/Hor	0.69	2
HD 13246	F7V	Tuc/Hor	0.52	2
HD 8558	G7V	Tuc/Hor	0.667	2,9
HD 9054	K1V	Tuc/Hor	0.91	4
HIP 105388	G7V	Tuc/Hor	0.65	9
HIP 108422	G9IV	Tuc/Hor	0.83	2
HIP 1113	G8V	Tuc/Hor	0.756	2,9
HIP 1481	F8V	Tuc/Hor	0.54	2
HIP 16853	G2V	Tuc/Hor	0.6	2
HIP 21632	G3V	Tuc/Hor	0.61	2
HIP 22295	F7V	Tuc/Hor	0.515	2,9
HIP 2729	K4Ve	Tuc/Hor	1.226	9
HIP 30030	G0V	Tuc/Hor	0.57	2
HIP 30034	K1V(e)	Tuc/Hor	0.805	2,9
HIP 32235	G6V	Tuc/Hor	0.575	2,9
HIP 33737	K2V	Tuc/Hor	1.036	2,9
HIP 490	G0V	Tuc/Hor	0.6	1
HIP 9141	G4V	Tuc/Hor	0.673	2,9
TYC 7600-0516-1	K1V(e)	Tuc/Hor	0.898	2,9
TYC 5882-1169-1	K3/4	Tuc/Hor	1.166	2,9
G 271-110	M4+>L0	$\beta$ Pic	1.803	10
BD+30 397B	M2	$\beta$ Pic	1.5	1
BD+05 378	K6	$\beta$ Pic	1.309	4,9
PM J03325+2843	M4+M4.5	$\beta$ Pic	1.542	10
UCAC2 36944937	M5	$\beta$ Pic	1.0	10
V1005 Ori	M0	$\beta$ Pic	1.373	2,9
CD-57 1054	M0.5	$\beta$ Pic	1.383	2,9
UCAC3 176-23654	M2.9	$\beta$ Pic	1.49	10
AO Men	K6.5	$\beta$ Pic	1.251	2,9
HD 139084	K0	$\beta$ Pic	0.803	4,9
ASAS J164301-1754.4	M0.6	$\beta$ Pic	1.36	3,8
CD-27 11535	K5	$\beta$ Pic	1.084	2,9
HD 155555C	M4.5	$\beta$ Pic	1.54	4
GSC 08350-01924	M3	$\beta$ Pic	1.46	4
CD-54 7336	K1	$\beta$ Pic	0.766	2,9
HD 161460	K0	$\beta$ Pic	1.495	4,9
HD 319139	K6	$\beta$ Pic	0.79	2
GSC 07396-00759	M1.5	$\beta$ Pic	1.36	4
PZ Tel	K0	$\beta$ Pic	0.878	2,9

*Table 3 continued*

Table 3 (*continued*)

ISWASP J191028.18-231948.0	M4.0	$\beta$ Pic	1.533	5
CD-26 13904	K4	$\beta$ Pic	1.09	2
UCAC3 116-474938	M4	$\beta$ Pic	1.56	10
SCR J2010-2801	M2.5+M3.5	$\beta$ Pic	1.5	10
AU Mic	M1	$\beta$ Pic	1.423	9
CPD-72 2713	K7+K5	$\beta$ Pic	1.315	2,9
WW PsA	M4	$\beta$ Pic	1.516	7,9
TX PsA	M4.5	$\beta$ Pic	1.57	4
UCAC4 494-001142	M3.9	$\beta$ Pic	1.561	10
UCAC2 16305530	M4.5	$\beta$ Pic	1.58	10
RX J0506.2+0439	M3.8	$\beta$ Pic	1.52	10
UCAC2 35242146	M4.0	$\beta$ Pic	1.58	10
UCAC3 66-407600	M3.6	$\beta$ Pic	1.51	10
HD 181327	F6V	$\beta$ Pic	0.46	2
HD 35850	F8V(n)k:	$\beta$ Pic	0.537	2
HIP 10679	G2V	$\beta$ Pic	0.59	1
HIP 10680	F5V	$\beta$ Pic	0.49	1
HIP 11437	K7V	$\beta$ Pic	1.18	1

**References**—(1) Mermilliod (1987), (2) Høg et al. (2000c), (3) Monet et al. (2003), (4) Torres et al. (2006), (5) Riaz et al. (2006), (6) Messina et al. (2010), (7) Koen et al. (2010), (8) Kiss et al. (2011), (9) Kiraga (2012), (10) Zacharias et al. (2012)

NOTE—Stellar  $B - V$  values and references are for stars of AB Dor, Tuc/Hor, and  $\beta$  Pic moving groups, whose sources for Li EW did not include  $B - V$  values. AB Dor and Tuc/Hor stars are from Mentuch et al. (2008), and  $\beta$  Pic stars are from Mentuch et al. (2008) and Shkolnik et al. (2017). Note that a single  $B - V$  reference is for both B and V magnitudes while two references are for B magnitude and V magnitude respectively.