

## Photometric Notes and References

- HIP 8** Ref: 95.588 95.692 89.031 88.020 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 14** Ref: 95.445
- HIP 19** Ref: 94.406
- HIP 25** Ref: 95.445
- HIP 63** Ref: 95.327 95.684 94.202 91.053 84.043 81.023 80.022  
Comments: Period from Ref 84.043 confirmed.
- HIP 80** Ref: 95.445 94.188
- HIP 85** Ref: 95.445
- HIP 96** Comments: This could be an eclipsing star, but insufficient data.
- HIP 99** Ref: 95.361 95.567 94.506
- HIP 124** Ref: 93.015
- HIP 145** Ref: 95.556 94.253
- HIP 146** Ref: 95.445
- HIP 159** Ref: 95.147 95.732 95.739 94.515 93.211 91.102 91.107
- HIP 165** Ref: 94.202
- HIP 167** Ref: 94.432
- HIP 168** Ref: 95.686
- HIP 171** Ref: 95.087 95.122 95.658 95.671 95.691 95.694 94.043 94.256 94.257 94.407
- HIP 181** Comments: Possible period  $p = 10.29d$ .
- HIP 183** Ref: 94.311
- HIP 186** Ref: 95.684 95.751
- HIP 194** Ref: 95.445 95.684
- HIP 220** Ref: 95.546
- HIP 226** Ref: 95.378 95.697 94.236 93.111 93.128 66.011 66.015 40.003
- HIP 238** Ref: 95.445
- HIP 262** Ref: 94.538 80.050 73.009 64.011 22.006
- HIP 267** Ref: 95.147 91.107
- HIP 274** Ref: 94.055 94.206 92.129 76.039
- HIP 301** Ref: 95.112 94.311
- HIP 302** Comments: Possible period  $p = 20.9d$ .
- HIP 320** Ref: 95.371 95.379 95.697 94.123 94.236 94.282 94.286 94.409 92.099 90.023 82.054 77.031 66.008
- HIP 330** Ref: 95.684
- HIP 344** Ref: 88.020 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 345** Ref: 95.684
- HIP 355** Ref: 94.259
- HIP 357** Ref: 95.445
- HIP 363** Ref: 95.309 95.509 94.418 22.006 7.001
- HIP 365** Ref: 95.684
- HIP 377** Ref: 95.701
- HIP 390** Ref: 91.190 89.038 80.068 71.018 64.009 62.001 60.002
- HIP 394** Ref: 95.064 94.256
- HIP 417** Ref: 95.445 95.558
- HIP 418** Ref: 91.053 84.043
- HIP 424** Ref: 95.684 94.209
- HIP 434** Ref: 95.445 94.280
- HIP 439** Ref: 94.410
- HIP 443** Ref: 95.062 95.268 94.419 93.073 93.092 93.118 89.060 85.140 85.193 84.140 84.170
- HIP 447** Ref: 95.373 95.419 95.445 94.188
- HIP 451** Ref: 93.030
- HIP 457** Comments: Could be SR with  $p = 500d$ .
- HIP 461** Ref: 94.206
- HIP 470** Comments: Possible period  $p = 4.434d$ .
- HIP 473** Ref: 93.118  
Comments: Not variable in Hipparcos data.
- HIP 476** Ref: 95.419 93.015
- HIP 484** Ref: 95.445 95.697 94.280
- HIP 490** Ref: 93.030
- HIP 500** Comments: Possible period  $p = 22d$ .
- HIP 505** Ref: 95.388 94.402 89.166
- HIP 512** Ref: 94.278
- HIP 518** Ref: 95.277 94.265
- HIP 520** Comments: Possible period  $p = 163d$ .
- HIP 522** Ref: 95.445
- HIP 531** Ref: 84.033
- HIP 536** Ref: 95.230 94.196 22.006
- HIP 544** Ref: 95.097 95.698
- HIP 553** Ref: 95.445
- HIP 560** Ref: 96.007 95.684
- HIP 590** Comments: Possible period  $p = 3.6d$ .
- HIP 602** Ref: 95.033 95.154 95.445 95.684
- HIP 610** Comments: Possible period  $p = 0.83035d$ .
- HIP 621** Ref: 93.095
- HIP 628** Ref: 93.211 91.102
- HIP 635** Ref: 95.147 95.684 94.202 93.211 91.102 91.107
- HIP 636** Ref: 96.007 95.033 95.060 95.684 93.026
- HIP 664** Ref: 95.062 95.419 93.092 93.118 91.102 90.108 89.060 86.085 84.124 84.140 84.170
- HIP 677** Ref: 95.141 95.404 94.194 94.202 94.253 94.278 93.088 84.043 83.033 81.052 73.015  
Comments: Possible period  $p = 0.9990d$ .
- HIP 691** Ref: 95.196
- HIP 696** Comments: Possible period  $p = 23.8d$ .
- HIP 699** Ref: 95.432 93.050
- HIP 703** Comments: Ephemeris based on AAVSO data.
- HIP 720** Comments: Possible period  $p = 3.9d$ .
- HIP 728** Ref: 94.253
- HIP 746** Ref: 95.208 95.347 94.178 94.191 94.289 92.063 90.024 86.082 82.083 71.014  
Comments: Period from Ref 94.191 confirmed.
- HIP 750** Comments: May be eclipsing variable,  $p = 6.447d$ .
- HIP 759** Ref: 94.289
- HIP 760** Ref: 95.684
- HIP 763** Ref: 94.367
- HIP 765** Ref: 93.015
- HIP 779** Ref: 93.150
- HIP 781** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 796** Ref: 94.117 91.064 77.040
- HIP 813** Ref: 95.072 95.642 95.687 94.111 94.278
- HIP 817** Comments: Period could be half, but then no secondary minimum visible.
- HIP 835** Ref: 94.202
- HIP 852** Comments: Possible period  $p = 24.08d$ .
- HIP 865** Ref: 95.701
- HIP 871** Ref: 95.396 95.545 86.120 67.004 31.001 30.013 22.006
- HIP 873** Ref: 95.445
- HIP 876** Ref: 94.367
- HIP 910** Ref: 95.154 95.298 95.379 95.399 94.056 93.003 93.050
- HIP 929** Ref: 95.445
- HIP 948** Ref: 95.445
- HIP 950** Ref: 93.050
- HIP 951** Ref: 94.406
- HIP 956** Ref: 94.206
- HIP 983** Ref: 95.526 95.665
- HIP 989** Comments: Spurious periods can be detected.
- HIP 999** Ref: 95.171 95.389 94.053 94.138 94.173 93.030  
Comments: Possible confirmation of period from Ref 95.389.
- HIP 1013** Ref: 95.445
- HIP 1018** Ref: 95.445
- HIP 1032** Comments: Possible period  $p = 3.337d$ .
- HIP 1054** Ref: 95.697
- HIP 1067** Ref: 95.314 94.019 94.055 94.370 87.067 85.091 82.049 81.022 76.019 75.016
- HIP 1086** Ref: 95.684 93.015  
Comments: Possibly variable with  $p = 1.1545d$ .
- HIP 1102** Ref: 95.697
- HIP 1113** Ref: 94.111
- HIP 1123** Ref: 95.684 95.751
- HIP 1124** Comments: Possible period  $p = 7.46d$ .
- HIP 1126** Comments: Could possibly be EA type variable.
- HIP 1131** Comments: Possible period  $p = 53.7d$ .
- HIP 1138** Ref: 95.697

- HIP 1146** Comments: Possible period  $p = 9.82d$ .  
**HIP 1158** Comments: Possible period  $p = 12.987d$ .  
**HIP 1162** Ref: 94.177 93.212 85.084 84.087 81.076  
80.068 71.018 64.009 62.001 60.002  
**HIP 1168** Ref: 95.417 95.661 94.204 94.542  
**HIP 1170** Comments: Possible period  $p = 19.25d$ .  
**HIP 1182** Comments: Type EW and not RRc with  
 $p = 0.1821789d$ .  
**HIP 1185** Ref: 95.558  
**HIP 1193** Ref: 95.684 84.043  
**HIP 1196** Ref: 95.445 95.684 89.060 85.074  
**HIP 1210** Ref: 95.347 94.191 94.202 89.150  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.  
**HIP 1213** Ref: 94.177 88.108 81.076 77.040 71.018  
64.009 62.001 61.005 60.002 40.003 22.006  
**HIP 1215** Ref: 95.684  
**HIP 1236** Ref: 95.588 93.081 89.031 88.020 77.027  
22.006 7.001  
**HIP 1263** Ref: 92.076  
**HIP 1298** Ref: 95.445 94.280  
**HIP 1301** Ref: 94.188  
**HIP 1302** Ref: 95.684  
**HIP 1309** Ref: 95.701  
**HIP 1319** Ref: 95.385  
**HIP 1325** Comments: Possible period  $p = 13.0d$ .  
**HIP 1342** Ref: 95.445  
**HIP 1349** Ref: 95.386  
**HIP 1352** Comments: Possible period  $p = 11.78d$ .  
**HIP 1366** Ref: 95.125 95.280 95.684 94.202  
**HIP 1372** Ref: 94.278  
**HIP 1387** Ref: 95.359 94.323 81.040 78.024  
**HIP 1392** Ref: 94.206  
**HIP 1401** Ref: 30.013 22.006 7.001  
Comments: Some signs of eclipses?  
**HIP 1402** Ref: 95.445 95.684  
**HIP 1415** Ref: 95.388 91.078 85.074  
**HIP 1437** Ref: 95.445 94.188  
**HIP 1444** Ref: 95.343 95.386  
**HIP 1473** Ref: 95.125 95.684 94.202 78.008  
**HIP 1475** Ref: 95.475 94.407 94.410 89.059  
**HIP 1493** Ref: 95.684  
**HIP 1497** Comments: Possible period  $p = 7.606d$ .  
**HIP 1499** Ref: 95.445 94.256 94.407  
**HIP 1501** Ref: 94.229  
**HIP 1543** Ref: 95.347 94.191  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.  
**HIP 1550** Ref: 95.076 95.197 92.035 92.152 85.035  
83.009 83.051 80.051 79.025 79.042 77.037 74.039  
66.020 65.005 64.011 64.013 30.005 24.004 22.006  
**HIP 1555** Comments: Possible period  $p = 22.63d$ .  
**HIP 1562** Ref: 95.625 93.015  
**HIP 1593** Ref: 95.361 95.509 94.196 94.418 91.043  
30.013 22.006  
**HIP 1599** Ref: 95.698 94.084 94.259 94.410 93.050  
**HIP 1603** Ref: 95.684  
**HIP 1609** Comments: Possible period  $p = 9.33d$ .  
**HIP 1627** Comments: Possible period  $p = 414d$ .  
**HIP 1631** Ref: 95.697  
**HIP 1639** Ref: 94.406  
**HIP 1647** Ref: 95.701  
**HIP 1652** Comments: Possible period  $p = 500d$ .  
**HIP 1670** Ref: 95.684  
**HIP 1686** Ref: 95.698 93.015 93.050  
**HIP 1728** Ref: 95.230 93.093 93.095 92.162 30.013  
22.006 7.001  
Comments: Possible period  $p = 158.0d$ .  
**HIP 1746** Ref: 95.445  
**HIP 1755** Ref: 86.042  
**HIP 1768** Ref: 95.445  
**HIP 1771** Ref: 22.006 7.001  
**HIP 1792** Ref: 93.073 93.092 93.118 89.060 83.080  
Comments: At times periodic ( $p = 34.46d$ ), or  
constant (Ref 83.080).  
**HIP 1799** Ref: 87.168 86.039 85.074  
Comments: Period in Ref 85.074 confirmed.  
**HIP 1803** Ref: 95.124 95.277 95.285 95.343 95.427  
95.445 95.475 95.658 95.671 94.007 94.084 94.259  
92.066 91.054 80.063  
**HIP 1805** Comments: Part of double system, component  
at 9.7 arcsec appears brighter than stated in Hipparcos  
Input Catalogue.  
**HIP 1807** Ref: 95.445  
**HIP 1834** Ref: 95.387 95.581 95.588 95.692 93.192  
89.031 88.020 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.  
**HIP 1843** Comments: Possible period  $p = 125d$ .  
**HIP 1852** Ref: 7.001  
**HIP 1878** Ref: 95.371 95.378 95.379 95.401 95.697  
95.726 94.123 94.236 94.282 94.286 94.387 94.409  
93.111 92.108 92.150 92.216 90.052 89.023 89.062  
89.063 88.140 84.057 82.054 81.087 79.044 78.043  
78.044 77.036 77.041 73.029 69.011 66.008 65.006  
59.001 59.002 30.013 22.006  
**HIP 1880** Comments: Possible period  $p = 4.435d$ .  
**HIP 1892** Ref: 94.406  
**HIP 1901** Ref: 95.303 95.309 95.499 95.598 93.093  
93.095 88.020 88.139 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.  
**HIP 1902** Ref: 95.701  
**HIP 1936** Ref: 95.445  
**HIP 1941** Comments: Possible period  $p = 38d$ .  
**HIP 1955** Ref: 95.445  
**HIP 1960** Ref: 94.209  
**HIP 1982** Ref: 79.045  
**HIP 1989** Comments: Possibly EA type.  
**HIP 2006** Ref: 93.015  
**HIP 2021** Ref: 95.064 95.299 95.379 95.532 95.698  
95.701 94.410 93.015 93.206  
**HIP 2025** Ref: 95.445  
**HIP 2048** Comments: Possibly EA type.  
**HIP 2054** Comments: Possible period  $p = 0.828d$ . May be  
eclipsing.  
**HIP 2072** Ref: 95.684  
**HIP 2074** Ref: 94.406  
**HIP 2081** Ref: 95.625 93.015 93.092  
**HIP 2085** Ref: 95.767 94.498 93.149 92.075 92.110  
84.190 78.029 77.040 71.018 67.012 67.013 67.014  
64.009 61.005 60.002 57.001 57.004 57.005 40.003  
22.006  
Comments: See Ref 57.005 on two periods,  
 $p = 2.139d$  and  $p = 5.230d$ .  
**HIP 2086** Comments: Possible period  $p = 12d$ .  
**HIP 2123** Comments: Possible periods  $p = 7d$  or  $p = 52d$ .  
**HIP 2125** Ref: 94.469 93.220 83.111  
**HIP 2164** Comments: Possible period  $p = 4.2918d$ . May  
be eclipsing.  
**HIP 2170** Ref: 93.092  
**HIP 2180** Ref: 95.509 94.418  
**HIP 2210** Ref: 94.204 94.542  
Comments: Ref 94.542: Variability time scale 30d in  
AAVSO survey of SARVs.  
**HIP 2215** Ref: 94.196 92.011 92.162  
**HIP 2216** Comments: Possible period  $p = 6.37d$ .  
**HIP 2219** Ref: 95.475 92.162 85.193 84.140 84.170  
**HIP 2225** Ref: 95.684  
**HIP 2235** Ref: 95.445 95.671 93.050  
**HIP 2237** Ref: 95.445  
**HIP 2240** Ref: 95.445  
**HIP 2243** Ref: 94.202 85.188 84.043  
**HIP 2246** Ref: 95.343  
**HIP 2252** Ref: 94.206  
**HIP 2270** Ref: 93.015  
**HIP 2271** Comments: Possible period  $p = 1.93d$ . The  
double-star analysis indicates that it may be the fainter  
(B) component which is variable. Other notes: D.  
**HIP 2274** Comments: Type might be RRc, based on  
period, light curve and spectral type.

- HIP 2286** Ref: 95.692 88.020 82.043 81.016 77.027  
22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 2319** Ref: 94.056 93.050
- HIP 2337** Ref: 95.445
- HIP 2340** Comments: Possible period  $p = 4.07d$ .
- HIP 2347** Ref: 95.447 95.580 94.177 94.285 93.146  
92.077 91.190 88.108 87.031 85.084 84.087 80.068  
71.018 64.009 60.002
- HIP 2354** Ref: 95.431
- HIP 2355** Ref: 95.140 95.347 95.684 94.191 93.066  
93.077 93.097 93.161 90.024 82.063 71.014
- HIP 2377** Ref: 94.209 76.039
- HIP 2381** Ref: 95.684
- HIP 2383** Ref: 95.445 94.265
- HIP 2388** Ref: 95.347 95.445 94.191 92.067 90.024  
Comments: Possible periods  $p = 0.230630d$  and  
 $p = 0.135515d$ .
- HIP 2413** Ref: 95.445 95.697 94.280 94.407 93.130
- HIP 2463** Ref: 95.433 95.441 95.442 95.445 95.697  
94.280 93.130
- HIP 2472** Ref: 95.684
- HIP 2484** Ref: 94.278 94.311
- HIP 2487** Ref: 95.684
- HIP 2505** Ref: 94.278 76.039
- HIP 2515** Ref: 94.246 94.407
- HIP 2529** Ref: 95.686
- HIP 2534** Ref: 94.202
- HIP 2546** Ref: 95.588 88.020 86.141 85.222 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 2548** Ref: 95.684 94.206
- HIP 2552** Ref: 94.258 94.410 89.059
- HIP 2553** Ref: 95.684
- HIP 2563** Ref: 95.525
- HIP 2565** Ref: 95.684
- HIP 2573** Ref: 94.280
- HIP 2578** Ref: 95.684
- HIP 2596** Comments: No clear periodicity observed.
- HIP 2599** Ref: 95.388 95.554 95.590 95.612 94.367  
84.055 76.039
- HIP 2618** Ref: 95.433 95.445 95.697 94.271 94.280
- HIP 2628** Ref: 95.684
- HIP 2629** Ref: 95.347 95.701 94.191 90.024  
Comments: Hipparcos data inadequate for this  
complex system.
- HIP 2644** Ref: 91.100
- HIP 2651** Comments: Possible period  $p = 10.877d$ .
- HIP 2655** Ref: 95.697 94.236 94.282 94.286 69.011
- HIP 2663** Ref: 95.445
- HIP 2700** Ref: 95.686
- HIP 2710** Ref: 93.030
- HIP 2711** Ref: 95.445 94.056 93.050
- HIP 2712** Ref: 95.386
- HIP 2727** Ref: 95.445 94.280
- HIP 2743** Ref: 95.445
- HIP 2762** Ref: 95.268 94.206 94.257 94.419 93.073  
93.118 89.060 85.193 84.140
- HIP 2771** Ref: 95.697
- HIP 2787** Ref: 95.445 95.671
- HIP 2789** Ref: 95.445
- HIP 2802** Ref: 95.445
- HIP 2812** Ref: 95.701
- HIP 2814** Ref: 94.206
- HIP 2832** Ref: 95.432 95.445 93.050
- HIP 2844** Ref: 94.138
- HIP 2848** Ref: 95.445
- HIP 2852** Ref: 95.347 95.445 95.684 94.191 94.202  
91.102 90.024 82.072  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 2854** Ref: 94.278
- HIP 2865** Ref: 95.684 91.036
- HIP 2876** Ref: 95.563 95.684
- HIP 2886** Ref: 94.206
- HIP 2887** Ref: 95.701
- HIP 2888** Ref: 95.445
- HIP 2900** Ref: 96.001 95.373 93.092 85.232  
Comments: Spectroscopic orbit,  $p = 576d$ . Ref  
85.232. Detection of short-term radial velocity  
variations superimposed on orbital motion (Ref  
96.001).
- HIP 2903** Ref: 95.107 90.018 88.113 88.126 87.139  
79.014 75.016
- HIP 2907** Ref: 95.701
- HIP 2912** Ref: 95.356 94.248
- HIP 2920** Ref: 95.107 95.515 94.055 94.085 94.403
- HIP 2937** Ref: 95.445
- HIP 2940** Ref: 84.042  
Comments: Period from Ref 84.042 (0.58931d) not  
confirmed. Not variable.
- HIP 2941** Ref: 95.097 95.445 95.671 94.188 94.256  
94.257 94.259
- HIP 2947** Ref: 95.701
- HIP 2993** Ref: 95.704 94.423
- HIP 3025** Ref: 84.043
- HIP 3026** Ref: 95.122 95.193 95.235 95.445 95.697  
94.043 94.188 94.407
- HIP 3031** Ref: 95.062 94.224 94.407 93.015
- HIP 3076** Ref: 95.701
- HIP 3082** Ref: 95.575
- HIP 3086** Ref: 95.445
- HIP 3092** Ref: 95.468 95.558 94.243 93.029 93.092
- HIP 3093** Ref: 95.124 95.277 95.510 95.644 95.671  
94.007 94.256 94.407
- HIP 3106** Ref: 94.188
- HIP 3129** Ref: 94.007  
Comments: Amplitude smaller than in Hipparcos  
Input Catalogue.
- HIP 3137** Ref: 95.445
- HIP 3138** Ref: 95.062
- HIP 3142** Ref: 95.445
- HIP 3158** Comments: Possibly EA type, but insufficient  
data for period determination. Other notes: G.
- HIP 3170** Ref: 95.386 95.445 94.084
- HIP 3179** Ref: 95.419 95.625 94.148 94.243 90.108  
85.090 22.006 7.001
- HIP 3185** Ref: 95.445 95.671 94.084
- HIP 3206** Ref: 94.256 94.339
- HIP 3231** Ref: 93.015
- HIP 3237** Ref: 95.098
- HIP 3245** Ref: 93.015
- HIP 3269** Ref: 95.684
- HIP 3277** Ref: 95.684 94.202 86.021 84.043 80.027
- HIP 3294** Comments: Possible period  $p = 6.45d$ .
- HIP 3299** Ref: 95.062
- HIP 3300** Ref: 95.575
- HIP 3326** Ref: 94.265
- HIP 3346** Ref: 95.575
- HIP 3362** Ref: 95.025 94.248 93.018 93.118 89.059
- HIP 3367** Ref: 95.523 95.690 90.078
- HIP 3394** Comments: Possibly eclipsing, but insufficient  
data. Other notes: D.
- HIP 3401** Ref: 95.042 95.077 95.149 95.161 95.333  
95.342 94.049 94.211 94.326 93.013
- HIP 3405** Ref: 95.684
- HIP 3410** Ref: 95.445
- HIP 3414** Ref: 95.684
- HIP 3415** Ref: 95.111
- HIP 3419** Ref: 95.390 95.419 95.628 95.698 94.265  
94.312 93.015 90.108
- HIP 3430** Ref: 94.389
- HIP 3432** Ref: 95.346 94.191 90.024 88.084  
Comments: Period from Ref 94.191 confirmed.
- HIP 3436** Ref: 95.445
- HIP 3441** Ref: 95.445
- HIP 3454** Comments: Possibly EA type, but insufficient  
data.
- HIP 3461** Ref: 95.243
- HIP 3478** Ref: 95.388 95.515 94.209
- HIP 3479** Ref: 95.386

- HIP 3494** Ref: 95.243 95.322 95.548 94.240 94.404  
93.055 93.074 93.166 92.162 92.212 91.011 89.057  
89.092 87.107 85.150
- HIP 3497** Ref: 95.445 94.084
- HIP 3504** Ref: 85.206
- HIP 3505** Ref: 95.445 91.102
- HIP 3506** Ref: 95.697
- HIP 3513** Comments: Possible period  $p = 0.2229d$ .
- HIP 3518** Comments: Possible period  $p = 9.2d$ .
- HIP 3521** Ref: 95.684
- HIP 3527** Ref: 95.445
- HIP 3535** Ref: 95.445
- HIP 3540** Ref: 94.406
- HIP 3544** Ref: 95.684
- HIP 3554** Ref: 95.441 95.442 95.445 95.697 94.188  
94.280
- HIP 3559** Ref: 95.193 95.383 95.445 95.644 94.056  
94.407 93.050
- HIP 3572** Ref: 95.684 86.099 84.019 83.009 83.044  
81.072 80.028
- HIP 3576** Ref: 95.445 95.684
- HIP 3583** Ref: 95.445
- HIP 3597** Ref: 95.243
- HIP 3604** Ref: 93.088
- HIP 3610** Ref: 95.567
- HIP 3611** Ref: 95.684
- HIP 3620** Ref: 95.373
- HIP 3632** Ref: 94.204  
Comments: Possible period  $p = 2.8d$ .
- HIP 3635** Ref: 95.441 95.442 95.445 94.280
- HIP 3685** Ref: 95.347 95.684 94.191 90.024  
Comments: Period from Ref 94.191 not confirmed.  
Possible period  $p = 0.09829d$ , but amplitude very small  
and unconvincing.
- HIP 3693** Ref: 95.062 95.268 95.419 95.428 95.430  
94.042 94.047 94.125 94.145 94.419 93.118 92.111  
90.108 89.060 85.074 85.193 84.140  
Comments: Period from Ref 85.074.
- HIP 3701** Ref: 94.279 94.328
- HIP 3741** Ref: 94.278
- HIP 3758** Comments: Possibly EA type.
- HIP 3765** Ref: 95.097 95.277 95.445 95.510 95.671  
94.007 94.027 94.265 94.407 94.410
- HIP 3770** Ref: 95.445 94.280
- HIP 3781** Ref: 94.204
- HIP 3786** Ref: 94.407
- HIP 3788** Ref: 93.211 91.102
- HIP 3791** Comments: Period could be half.
- HIP 3801** Ref: 94.278
- HIP 3810** Ref: 79.040
- HIP 3821** Ref: 95.011 95.379 95.383 95.399 95.432  
95.469 95.644 94.257 94.407 94.410 93.050
- HIP 3845** Comments: Possibly E type. Other notes: G.
- HIP 3849** Ref: 95.445
- HIP 3850** Ref: 95.445
- HIP 3852** Comments: Possible period  $p = 2.2d$ .
- HIP 3858** Ref: 95.684 91.102
- HIP 3881** Ref: 94.209
- HIP 3884** Ref: 94.407
- HIP 3885** Ref: 95.684 93.015
- HIP 3886** Ref: 81.046 81.076 77.040 71.018 64.009  
62.001 61.005 60.002 40.003 30.013
- HIP 3903** Ref: 95.347 94.191 94.202 90.024 82.072  
Comments: Period from Ref 94.191 does not fit the  
data.
- HIP 3905** Ref: 92.153 22.006 7.001
- HIP 3909** Ref: 95.432 95.445 93.050 93.075
- HIP 3919** Ref: 95.327 95.684 86.024 84.043 80.011  
Comments: Ref 86.024 periods ( $p = 2.5481d$  or  
 $p = 1.64417d$ ) do not fit the data. Both  $p = 2.561475d$   
or  $p = 1.925669d$  appear possible.
- HIP 3923** Ref: 94.206
- HIP 3926** Ref: 94.206
- HIP 3949** Ref: 95.347 94.191 90.024 83.020  
Comments: Period from Ref 94.191 not confirmed.
- HIP 3951** Ref: 95.684
- HIP 3961** Ref: 95.701
- HIP 3965** Ref: 95.347 94.191 90.024 84.161  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 4008** Ref: 30.013  
Comments: Long and irregular period, longer than  
100 days given in Hipparcos Input Catalogue. Possible  
period of around  $p = 600d$ .
- HIP 4022** Ref: 95.445
- HIP 4023** Ref: 95.684
- HIP 4030** Ref: 92.112
- HIP 4062** Ref: 95.343 85.147 84.150
- HIP 4084** Ref: 95.445
- HIP 4104** Ref: 95.697
- HIP 4106** Comments: Possible period  $p = 73.5d$ .
- HIP 4129** Ref: 95.684
- HIP 4147** Ref: 94.204
- HIP 4148** Ref: 95.445
- HIP 4151** Ref: 95.379 95.432 93.050
- HIP 4157** Ref: 95.001 95.343 95.430 95.453 94.047  
94.265 93.073 93.118 92.111 91.054 91.191 90.104  
87.030 85.132 81.095
- HIP 4176** Ref: 94.206
- HIP 4197** Ref: 93.015
- HIP 4200** Ref: 94.204 94.542
- HIP 4212** Ref: 95.684
- HIP 4226** Ref: 93.211
- HIP 4239** Ref: 94.406
- HIP 4257** Ref: 95.445 93.057
- HIP 4267** Ref: 95.684 94.206
- HIP 4279** Ref: 95.278 86.120
- HIP 4283** Ref: 95.684
- HIP 4284** Ref: 95.361 95.509 95.598 94.418 88.020  
22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 4288** Ref: 95.357 95.390
- HIP 4292** Ref: 95.390 94.209
- HIP 4317** Ref: 94.204
- HIP 4322** Ref: 95.140 95.410 94.191 93.117 93.129  
90.024 86.001 79.038  
Comments: Period from Ref 94.191 confirmed.
- HIP 4332** Ref: 93.211
- HIP 4343** Ref: 95.441 95.442 95.445 95.697 94.280
- HIP 4362** Ref: 95.697
- HIP 4366** Ref: 95.684
- HIP 4415** Ref: 95.701
- HIP 4422** Ref: 94.407
- HIP 4427** Ref: 95.046 95.063 95.095 95.104 95.110  
95.112 95.167 95.219 95.228 95.615 95.633 95.699  
94.131 94.314 94.367 94.400 94.477 94.544 93.052  
93.099 88.075 87.005 87.063 87.088 87.141 86.116  
85.160 85.165 85.193 84.040 83.003 83.008 80.019  
Comments: Amplitude of variations smaller than  
expected.
- HIP 4433** Comments: Possible period  $p = 10.5d$ .
- HIP 4436** Ref: 95.007 95.379 95.684 94.064 94.224  
93.097
- HIP 4440** Ref: 94.206 92.084
- HIP 4446** Ref: 95.684 93.015
- HIP 4449** Ref: 94.406
- HIP 4458** Ref: 95.445 94.280
- HIP 4463** Ref: 95.062 95.419 93.092 90.067 89.060
- HIP 4473** Ref: 95.445
- HIP 4478** Ref: 95.445
- HIP 4488** Ref: 84.043 81.036
- HIP 4511** Ref: 94.406
- HIP 4541** Ref: 95.297 95.371 95.378 95.379 95.697  
94.123 94.236 94.282 94.286 93.111 93.128 92.099  
90.023 77.031 22.006
- HIP 4558** Ref: 95.684
- HIP 4577** Ref: 95.314 94.165 94.278 94.311 93.211  
91.102 85.042 84.043
- HIP 4585** Ref: 95.445 94.280
- HIP 4587** Ref: 95.445

- HIP 4639** Ref: 95.410 77.040  
**HIP 4652** Ref: 22.006  
**HIP 4658** Comments: Possible period  $p = 6.93d$ .  
**HIP 4675** Ref: 95.684  
**HIP 4707** Comments: Possible period  $p = 9.7d$ .  
**HIP 4709** Ref: 95.684  
**HIP 4711** Comments: Possibly EA type, but insufficient data.  
**HIP 4717** Ref: 94.202 93.174 84.043 81.051  
**HIP 4725** Ref: 95.697 94.236  
**HIP 4775** Ref: 94.206  
**HIP 4811** Ref: 95.343  
**HIP 4843** Ref: 95.412 95.586 95.747 93.125 93.140  
 91.081 90.122 89.058 88.042 87.120 86.107 86.120  
 86.126 86.141 86.152 85.176 85.222 85.227 83.079  
 83.099 81.047 81.078 81.085 81.111 80.008 80.038  
 77.005 75.012 75.031 74.001 73.028 65.005 64.011  
 64.013 31.002 26.003 24.004 22.006 7.001  
**HIP 4844** Ref: 95.684  
**HIP 4852** Ref: 95.684 95.704 94.165 94.423 93.211  
 91.102  
**HIP 4862** Comments: Possible period  $p = 0.1029d$ . Other notes: D.  
**HIP 4869** Ref: 95.697  
**HIP 4879** Ref: 94.542  
**HIP 4891** Ref: 80.033  
**HIP 4902** Ref: 94.206  
**HIP 4903** Ref: 95.684  
**HIP 4911** Ref: 95.684 94.209  
**HIP 4914** Ref: 95.445 94.407  
**HIP 4922** Ref: 94.111  
**HIP 4924** Ref: 95.697  
**HIP 4932** Ref: 95.445  
**HIP 4933** Ref: 95.383 95.433 95.441 95.442 95.445  
 95.697 94.280 93.130  
**HIP 4945** Comments: Probably EA type. Secondary variations.  
**HIP 4960** Ref: 95.697 94.280  
**HIP 4962** Ref: 95.523 95.684 95.690  
**HIP 4964** Ref: 95.445  
**HIP 4971** Ref: 94.206  
**HIP 4979** Ref: 95.445 95.684  
**HIP 4990** Ref: 94.206  
**HIP 4995** Ref: 94.189  
**HIP 5004** Ref: 95.445  
**HIP 5007** Ref: 94.138 93.118 90.059  
 Comments: Period from Ref 90.059 confirmed.  
**HIP 5021** Ref: 93.057  
**HIP 5045** Ref: 95.684  
**HIP 5054** Ref: 95.087 95.122 95.386 95.445 94.043  
 94.056 93.050  
**HIP 5081** Ref: 95.445  
**HIP 5091** Ref: 93.093 93.095  
**HIP 5104** Ref: 95.423 95.697  
**HIP 5132** Ref: 94.278  
**HIP 5136** Ref: 95.445  
**HIP 5138** Ref: 80.068 71.018 64.009 62.001 61.005  
 60.002 30.013  
**HIP 5140** Ref: 95.445  
**HIP 5141** Ref: 95.445  
**HIP 5144** Ref: 95.445  
**HIP 5150** Ref: 94.202  
**HIP 5164** Ref: 95.684  
**HIP 5170** Ref: 95.445  
**HIP 5186** Ref: 95.684  
**HIP 5193** Ref: 95.515 94.253 83.020  
**HIP 5194** Ref: 95.445  
**HIP 5224** Ref: 95.445  
**HIP 5227** Ref: 94.265  
**HIP 5239** Ref: 95.748 93.002  
 Comments: Period  $p = 101d$  rather than  $p = 132d$ .  
 Brighter and smaller amplitude than in Hipparcos  
 Input Catalogue.  
**HIP 5259** Ref: 95.445 95.684  
**HIP 5267** Ref: 95.704 94.423 93.211 91.102  
**HIP 5268** Comments: Possible period  $p = 67.0d$ .  
**HIP 5296** Ref: 95.445  
**HIP 5300** Ref: 95.684  
**HIP 5310** Ref: 95.684 94.407  
**HIP 5315** Ref: 95.419 95.445 94.256  
**HIP 5316** Ref: 95.388  
**HIP 5317** Ref: 95.684  
**HIP 5319** Ref: 95.171 93.015  
**HIP 5321** Ref: 95.347 94.191 93.122 90.024 83.020  
 Comments: Period from Ref 94.191 not confirmed.  
**HIP 5336** Ref: 95.087 95.122 95.193 95.502 95.691  
 94.043 94.188 94.257 94.410  
**HIP 5346** Ref: 93.075  
**HIP 5348** Ref: 95.276 95.313 94.311 93.033 91.096  
 87.053 83.030 76.017 76.027 71.012  
**HIP 5364** Ref: 95.390 94.311 93.015  
**HIP 5367** Ref: 95.704 94.423 93.211 91.102  
**HIP 5391** Ref: 95.388 95.726 93.033 92.076 89.039  
 87.049 80.025  
**HIP 5409** Comments: Possible period  $p = 4.5d$ .  
**HIP 5434** Ref: 95.007 95.357 94.403 87.141  
**HIP 5438** Ref: 92.114 91.096 88.006 85.080 79.037  
**HIP 5445** Ref: 95.445 95.697 94.188 94.280 93.130  
**HIP 5447** Ref: 95.353 95.417 95.499 94.243 94.264  
**HIP 5454** Ref: 95.062 95.338 95.419 95.698 94.256  
 94.289 93.015 85.193 84.140  
**HIP 5455** Ref: 95.445 95.697 94.280  
**HIP 5458** Ref: 95.259 95.445 95.697 94.280 93.130  
**HIP 5485** Ref: 95.445  
**HIP 5489** Ref: 95.445  
**HIP 5493** Ref: 95.124 95.277 95.432 95.671 94.007  
 93.050  
**HIP 5510** Ref: 95.062 95.445  
**HIP 5512** Ref: 94.406  
**HIP 5514** Comments: Possible period  $p = 0.87123d$ .  
**HIP 5518** Ref: 95.684  
**HIP 5525** Comments: Possible period  $p = 9.94d$ .  
**HIP 5542** Ref: 95.379 95.684  
**HIP 5544** Ref: 95.684  
**HIP 5559** Ref: 94.196 92.011  
 Comments: Possible period  $p = 730d$ .  
**HIP 5626** Ref: 95.684  
**HIP 5636** Ref: 95.445  
**HIP 5643** Ref: 94.410  
**HIP 5649** Ref: 85.174  
**HIP 5658** Ref: 90.004 71.018 64.009 62.001 61.005  
**HIP 5661** Ref: 95.347 95.445 95.684 94.191 90.024  
 86.127  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 5684** Ref: 95.389  
 Comments: No confirmation of period from Ref  
 95.389.  
**HIP 5737** Ref: 95.445 95.684 93.015  
**HIP 5743** Ref: 95.445 95.684 94.265  
**HIP 5744** Ref: 93.092  
**HIP 5746** Ref: 95.230  
**HIP 5768** Ref: 95.590  
**HIP 5772** Ref: 95.499 93.093 93.095  
**HIP 5775** Ref: 95.445 94.256  
**HIP 5778** Ref: 94.028 94.278 93.048 93.062 84.043  
**HIP 5799** Ref: 94.174 93.050  
**HIP 5803** Ref: 95.697 94.261 94.409 93.111 93.128  
 88.133 82.041 82.054 65.002  
 Comments: Known problem case with fairly rapidly  
 changing period.  
**HIP 5824** Ref: 95.343  
**HIP 5829** Ref: 94.257  
**HIP 5833** Ref: 95.432 95.445 93.050  
**HIP 5846** Ref: 88.108 81.076 71.018 64.009 62.001  
 61.005  
**HIP 5862** Ref: 94.056 93.050  
**HIP 5896** Ref: 93.015  
**HIP 5910** Ref: 95.701

- HIP 5914** Ref: 95.361 95.509 94.418 30.013 22.006 7.001
- HIP 5916** Ref: 95.704 94.423 92.013 91.165
- HIP 5936** Ref: 95.062
- HIP 5939** Ref: 84.043
- HIP 5951** Ref: 95.054 95.062 95.224 95.524 95.596 95.694 94.047 94.265 93.015 93.073 93.092 93.118 92.111 89.060 87.036 86.028 85.075 85.193 84.140 84.170
- HIP 5980** Ref: 95.268 95.430 95.745 94.047 94.269 94.305 93.118 93.235 92.076 92.081 92.111 92.154 91.060 89.097 87.004 87.105 87.111 86.030 84.068 83.045 82.028
- HIP 5981** Comments: Period very uncertain, but insufficient data for good determination.
- HIP 6029** Ref: 95.378 95.697 94.236 94.409 93.111 93.128 69.011 66.008
- HIP 6037** Ref: 95.445
- HIP 6061** Ref: 95.684
- HIP 6093** Ref: 94.052 94.167 77.040
- HIP 6115** Ref: 95.697 82.041 82.054 77.031 66.011 66.015  
Comments: Period has increased since Ref 77.031.
- HIP 6132** Ref: 91.102  
Comments: Possible period  $p = 57.5$ d. Other notes: G.
- HIP 6140** Ref: 95.684
- HIP 6159** Ref: 95.122 95.445 95.697 94.043
- HIP 6174** Ref: 95.412 94.230 85.231 84.146
- HIP 6193** Ref: 95.684
- HIP 6200** Ref: 85.112 84.178
- HIP 6207** Comments: Possible period  $p = 3.05$ d.
- HIP 6239** Comments: Double-star separation about 12 arcsec; processed as single. Photometric variability spurious. Other notes: G.
- HIP 6241** Ref: 86.036
- HIP 6242** Ref: 95.338 95.388 95.431 95.684 94.232 94.407 89.099  
Comments: Variations of order 0.1 mag observed, but no period found.
- HIP 6257** Ref: 95.704 94.423
- HIP 6258** Ref: 95.445
- HIP 6301** Ref: 95.697 94.191 94.409 93.111 93.128 89.168 88.137 86.001 83.023 66.025  
Comments: Period confirmed (Ref 94.191).
- HIP 6307** Ref: 94.430 85.147
- HIP 6312** Ref: 95.684
- HIP 6325** Ref: 30.012 22.006  
Comments: Possible period  $p = 108.3$ d.
- HIP 6328** Ref: 91.102
- HIP 6331** Ref: 94.406
- HIP 6351** Ref: 95.445
- HIP 6375** Ref: 95.445
- HIP 6378** Ref: 95.684
- HIP 6408** Ref: 95.343 93.073 93.118
- HIP 6411** Ref: 85.090
- HIP 6430** Comments: Possible period  $p = 113$ d.
- HIP 6432** Ref: 95.062
- HIP 6448** Ref: 95.343 95.430 94.265 93.118 92.111 91.054 85.073 85.137 84.151  
Comments: Hipparcos data show gradient of 0.1 mag/1200d superimposed on short-term variations.
- HIP 6451** Ref: 94.246
- HIP 6453** Comments: Possible period  $p = 6.09$ d.
- HIP 6454** Ref: 95.268 95.343 95.430 94.419 93.118 92.111 91.054 89.060 85.193 82.060  
Comments: Possible SR variable, period  $p = 204$ d.
- HIP 6486** Ref: 94.206
- HIP 6494** Comments: Possibly EA type variable.
- HIP 6514** Ref: 95.684 94.253 93.003
- HIP 6539** Ref: 95.347 95.445 95.563 95.684 94.191 90.024 90.074 83.020  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 6552** Ref: 95.347 94.191 90.024  
Comments: Published elements (Ref 94.191) not confirmed.
- HIP 6560** Ref: 95.222 94.202 84.003 84.043 78.038  
Comments: Period from Ref 84.043 confirmed.
- HIP 6564** Ref: 95.445 94.206
- HIP 6607** Ref: 95.445
- HIP 6629** Ref: 95.343
- HIP 6669** Ref: 95.062 94.289
- HIP 6685** Ref: 95.684 94.407
- HIP 6686** Ref: 95.012 95.208 95.563 95.684 28.006  
Comments: Possible period  $p = 759$ d.
- HIP 6692** Ref: 94.209 85.090
- HIP 6706** Ref: 95.124 95.658
- HIP 6710** Ref: 95.445 95.697 94.280 93.130
- HIP 6717** Ref: 95.445 93.057 85.090
- HIP 6721** Comments: May be eclipsing but period not found.
- HIP 6732** Ref: 95.062
- HIP 6748** Ref: 95.445 83.020
- HIP 6751** Ref: 94.229
- HIP 6759** Ref: 95.057 95.361 95.509 95.581 95.648 95.680 94.078 94.196 94.418 90.014 22.006  
Comments: Brighter than expected from Hipparcos Input Catalogue. Ephemeris based on AAVSO data.
- HIP 6762** Ref: 95.445
- HIP 6771** Comments: May be eclipsing but period not found.
- HIP 6776** Ref: 93.015
- HIP 6794** Ref: 95.684
- HIP 6813** Ref: 95.379 93.015
- HIP 6821** Ref: 95.701
- HIP 6823** Ref: 95.143
- HIP 6847** Comments: Possibly E star, but insufficient data.
- HIP 6848** Ref: 80.033
- HIP 6849** Comments: Possibly E star, but insufficient data.
- HIP 6852** Comments: May be eclipsing variable. Possible period  $p = 18.518518$ d.
- HIP 6868** Ref: 95.062 95.419 95.445
- HIP 6873** Ref: 95.445
- HIP 6885** Ref: 95.445
- HIP 6888** Ref: 95.347 95.445 94.191 90.024 83.020
- HIP 6894** Ref: 95.445 95.697 94.280
- HIP 6907** Ref: 94.202
- HIP 6942** Ref: 95.347 94.191 90.024 83.020  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 6960** Ref: 95.684
- HIP 6981** Ref: 95.347 95.684 94.191 90.024 74.027  
Comments: Possible period  $p = 0.14778$ d.
- HIP 7007** Ref: 94.148
- HIP 7021** Comments: Possibly eclipsing.
- HIP 7050** Ref: 95.684
- HIP 7098** Ref: 95.701
- HIP 7134** Ref: 90.059  
Comments: Data appears not to confirm the period(s) suggested by Ref 90.059.
- HIP 7139** Comments: Period given in Hipparcos Input Catalogue not confirmed.
- HIP 7143** Ref: 93.092 85.193 84.140
- HIP 7145** Ref: 87.057 80.036 70.016 69.003
- HIP 7149** Ref: 95.297 95.378 95.379 95.401 95.697 94.123 94.236 94.282 94.286 94.409 93.111 92.150 90.052 89.062 86.031 86.041 82.054 79.044 78.042 77.031 69.011 66.008 64.002 22.006
- HIP 7183** Ref: 95.359 94.069 94.077 94.323 90.130 81.040 76.024
- HIP 7189** Ref: 95.445
- HIP 7192** Ref: 95.447 94.176 94.177 94.299 92.110 82.001 80.006
- HIP 7207** Ref: 95.445
- HIP 7218** Comments: Possible period  $p = 11.5$ d.
- HIP 7222** Ref: 95.684 85.045

- HIP 7235** Ref: 95.445  
**HIP 7251** Ref: 95.419 90.108  
**HIP 7256** Ref: 95.701  
**HIP 7260** Ref: 30.013  
**HIP 7271** Ref: 95.445  
**HIP 7276** Ref: 95.432 95.445 95.510 95.671 94.056 93.050  
**HIP 7283** Ref: 95.684  
**HIP 7289** Comments: Possible period  $p = 3.155d$ .  
**HIP 7315** Comments: Possible period  $p = 11.14d$ .  
**HIP 7321** Ref: 94.202 84.043  
**HIP 7330** Comments: Possibly E type.  
**HIP 7345** Ref: 95.684  
**HIP 7363** Ref: 95.697  
**HIP 7372** Ref: 95.210 94.265  
**HIP 7387** Ref: 95.343 95.445  
**HIP 7398** Ref: 94.236 94.494 75.034  
 Comments: Fainter than stated in GCVS4. See also Ref 75.034.  
**HIP 7446** Ref: 95.445  
**HIP 7447** Ref: 95.445 95.684  
**HIP 7459** Ref: 95.445  
**HIP 7463** Ref: 95.445  
**HIP 7487** Ref: 93.092  
**HIP 7493** Ref: 95.526 85.090 85.193 84.103 84.140  
**HIP 7505** Comments: Possible period  $p = 365d$ .  
**HIP 7513** Ref: 95.379 95.432 93.050  
**HIP 7535** Ref: 95.445 95.684  
**HIP 7539** Ref: 95.210 95.445  
**HIP 7548** Ref: 95.482 93.146 88.108 85.084 84.087 81.076 81.103 71.018 64.009 62.001 51.001 40.003 22.006 7.001  
**HIP 7553** Ref: 95.445 94.280  
**HIP 7580** Ref: 95.445 94.206  
**HIP 7588** Ref: 95.232 95.313 95.494 94.248 94.311 94.390 91.128 85.074  
 Comments: Not an ELL type according to Ref 85.074.  
**HIP 7598** Comments: Variations on 600d time scale.  
**HIP 7601** Ref: 95.386 95.445  
**HIP 7607** Ref: 94.209 94.224  
**HIP 7617** Ref: 95.385  
**HIP 7643** Ref: 95.445  
**HIP 7647** Comments: Variations at 1000d time scale.  
**HIP 7651** Ref: 95.327 95.684 94.202 84.043 78.038  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 7673** Ref: 95.445  
**HIP 7679** Ref: 95.684  
**HIP 7681** Ref: 95.055 95.111 94.231  
**HIP 7685** Ref: 95.347 94.191 94.202 90.024 84.116 83.002  
 Comments: Period from Ref 94.191 not confirmed.  
**HIP 7717** Ref: 95.701  
**HIP 7719** Ref: 95.062  
**HIP 7721** Ref: 95.210  
**HIP 7751** Ref: 95.445 94.410 93.030  
**HIP 7755** Comments: Variations at 1000d time scale.  
**HIP 7756** Ref: 95.701  
**HIP 7757** Comments: Possible period  $p = 6.61d$ .  
**HIP 7818** Ref: 94.278  
**HIP 7819** Ref: 94.406  
**HIP 7825** Ref: 95.684  
**HIP 7853** Ref: 95.701  
**HIP 7869** Ref: 95.122 95.445 95.697 94.043  
**HIP 7873** Ref: 95.701  
**HIP 7879** Ref: 95.445  
**HIP 7884** Ref: 95.390 95.644 94.259 94.407  
**HIP 7886** Ref: 95.445  
**HIP 7896** Ref: 95.445  
**HIP 7912** Comments: Spikes possibly due to superposition of images from other field of view.  
**HIP 7918** Ref: 95.379 95.383 95.399 95.432 95.644 95.658 94.257 94.407 93.050  
**HIP 7961** Ref: 95.445  
**HIP 7965** Ref: 95.684 94.202 93.088 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 7978** Ref: 95.445  
**HIP 7981** Ref: 95.097 95.193 95.510 95.644 95.671 95.698 94.188 94.209 94.232 94.256 94.407 94.410 83.004  
**HIP 8016** Ref: 95.684  
**HIP 8039** Comments: Possibly E type.  
**HIP 8044** Ref: 95.390  
**HIP 8050** Comments: Wrongly identified with GM Com in Hipparcos Input Catalogue. Other notes: G.  
**HIP 8068** Ref: 95.007 95.063 95.538 95.553 94.367 94.544 88.135 86.122 84.061 83.008  
**HIP 8086** Ref: 93.092 85.166 85.193 84.140  
**HIP 8102** Ref: 95.011 95.193 95.379 95.383 95.510 95.631 95.638 95.644 95.658 95.671 95.698 94.188 94.259 94.360 94.407 94.410 94.537  
**HIP 8106** Ref: 95.431 90.078  
**HIP 8115** Ref: 95.684  
**HIP 8132** Ref: 85.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 8143** Ref: 94.406  
**HIP 8148** Ref: 95.684  
**HIP 8163** Ref: 95.697 93.128 82.041 82.054 77.031  
 Comments: Period has decreased from that given in Ref 77.031.  
**HIP 8188** Ref: 95.445  
**HIP 8198** Ref: 93.015  
**HIP 8199** Ref: 95.701  
**HIP 8210** Ref: 94.202 90.134 84.043 82.031 71.003 67.010 65.003  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 8233** Ref: 95.445  
**HIP 8240** Ref: 94.204  
 Comments: Possible period  $p = 1.42d$ .  
**HIP 8271** Ref: 95.347 95.684 94.191 90.024 84.161 83.020 74.027  
 Comments: Possible periods  $p = 0.21863d$  (as in Ref 94.191) or  $p = 0.20540d$ . Very small amplitude.  
**HIP 8281** Ref: 93.073 93.118 90.059  
**HIP 8297** Ref: 95.387  
 Comments: Possible period  $p = 275d$ .  
**HIP 8312** Ref: 95.411 95.737 94.299 94.427 93.146 92.020 91.190 88.108 81.076 77.040 71.018 64.009 62.001 61.005 60.002 54.001  
 Comments: Considerable period variability (Ref 91.190). Spectroscopic binary orbit determined (Ref 95.737).  
**HIP 8314** Ref: 95.122 94.043 94.270 94.409  
**HIP 8358** Comments: Possible period  $p = 1.9075d$ .  
**HIP 8362** Ref: 95.671 94.256 94.407  
**HIP 8366** Ref: 95.445  
**HIP 8383** Ref: 95.445  
**HIP 8398** Ref: 95.386 95.445 94.084  
**HIP 8404** Ref: 95.445  
**HIP 8475** Ref: 95.515 95.684  
**HIP 8481** Comments: Possible period  $p = 17.5d$ .  
**HIP 8485** Ref: 95.701  
**HIP 8486** Ref: 93.073  
**HIP 8514** Ref: 95.445  
**HIP 8529** Ref: 94.407  
**HIP 8549** Comments: Possible period  $p = 6.56d$ .  
**HIP 8552** Ref: 95.445  
**HIP 8558** Ref: 95.697 95.701  
**HIP 8559** Ref: 95.195  
**HIP 8565** Ref: 30.013 22.006  
 Comments: Possible period  $p = 82d$ .  
**HIP 8572** Ref: 95.445 94.270 94.389  
**HIP 8579** Comments: Possibly E type.  
**HIP 8588** Ref: 95.445 95.684  
**HIP 8593** Ref: 95.033 95.060 95.347 95.684 94.046 94.191 93.026 90.024  
 Comments: Possible confirmation of period from Ref 94.191.  
**HIP 8598** Ref: 95.007 93.015



- HIP 8614** Ref: 88.108 81.076 80.068 71.018 64.009  
62.001 61.005 60.002 40.003
- HIP 8618** Comments: Possible period  $p = 1.618d$ .
- HIP 8619** Ref: 95.347 94.191 94.406 90.024  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 8643** Ref: 95.328 94.202 80.033
- HIP 8645** Ref: 93.092
- HIP 8693** Comments: Possible period  $p = 2.95946d$ .  
Possibly EA type.
- HIP 8704** Ref: 95.007 84.157 84.174  
Comments: Data confirms ephemeris from literature.
- HIP 8714** Ref: 95.007 94.209 93.088
- HIP 8725** Ref: 95.172
- HIP 8768** Ref: 95.277
- HIP 8771** Ref: 95.007 95.684
- HIP 8778** Ref: 95.347 95.445 95.684 94.191 90.024  
90.025 83.020  
Comments: Possible confirmation of period from Ref  
94.191.
- HIP 8781** Comments: Possibly EA type. Other notes: G.
- HIP 8786** Ref: 95.697 94.280
- HIP 8796** Ref: 95.124 95.379 94.265 93.050
- HIP 8822** Comments: Possibly EA type.
- HIP 8832** Ref: 95.327 95.684 94.202 84.043 78.005
- HIP 8833** Ref: 93.092
- HIP 8837** Ref: 94.204
- HIP 8847** Ref: 95.684
- HIP 8866** Ref: 95.701
- HIP 8876** Ref: 93.095
- HIP 8882** Ref: 95.684 94.028 93.048 93.062
- HIP 8883** Comments: Possible period  $p = 2.27d$ .
- HIP 8886** Ref: 95.314
- HIP 8892** Ref: 95.338
- HIP 8903** Ref: 95.003 95.563 95.684 94.224 85.074  
Comments: Given in Ref 85.074 as not ELL type,  
period  $p = 106.9973d$ .
- HIP 8922** Ref: 93.092
- HIP 8929** Ref: 94.406
- HIP 8939** Ref: 95.378 94.236
- HIP 8974** Ref: 95.445
- HIP 8976** Comments: Possible period  $p = 1.120197d$ ,  
ambiguous.
- HIP 8980** Comments: Possible period  $p = 19.4d$ .
- HIP 8983** Ref: 95.445 95.732
- HIP 8991** Ref: 95.445
- HIP 8993** Ref: 84.063 30.013  
Comments: If EA type, no eclipses were observed.
- HIP 8998** Ref: 94.257
- HIP 9007** Ref: 95.390 94.265
- HIP 9009** Ref: 94.278
- HIP 9021** Ref: 95.419 90.108
- HIP 9042** Comments: Brighter than expected.
- HIP 9044** Ref: 95.445
- HIP 9057** Ref: 95.509 94.418 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 9085** Ref: 95.399 95.445 94.056 93.050
- HIP 9094** Ref: 95.445 94.084
- HIP 9110** Ref: 95.445
- HIP 9149** Ref: 95.445
- HIP 9153** Ref: 95.684
- HIP 9171** Comments: Possible period  $p = 29.34d$ .
- HIP 9199** Ref: 95.048
- HIP 9211** Ref: 95.387  
Comments: Possible period  $p = 200d$ .
- HIP 9221** Ref: 95.029 95.117
- HIP 9230** Comments: New period well determined, but  
very different from literature value.
- HIP 9234** Ref: 93.215
- HIP 9236** Ref: 95.054 95.295 95.684
- HIP 9245** Ref: 95.141
- HIP 9274** Comments: Possible period  $p = 85d$ .
- HIP 9295** Ref: 95.684
- HIP 9306** Ref: 93.081 89.031 88.020 86.141 85.222  
30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 9312** Ref: 95.684
- HIP 9347** Ref: 94.204
- HIP 9353** Ref: 95.445 95.671
- HIP 9355** Comments: Possible period  $p = 2.786d$ .
- HIP 9361** Ref: 94.217 94.236 85.081 82.054
- HIP 9372** Ref: 94.204
- HIP 9381** Ref: 95.445
- HIP 9383** Ref: 94.538 93.131 80.050 76.030 64.010
- HIP 9437** Comments: Possible period  $p = 934d$ .
- HIP 9480** Ref: 95.684
- HIP 9487** Ref: 95.684 84.043  
Comments: Possible period  $p = 0.7544d$ .
- HIP 9494** Comments: Possibly E type.
- HIP 9498** Ref: 95.388
- HIP 9501** Ref: 95.729 94.191 91.067  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 9505** Ref: 95.007 94.209
- HIP 9523** Ref: 95.172 95.632
- HIP 9537** Ref: 94.206
- HIP 9538** Comments: Possible period  $p = 1.298d$ .
- HIP 9544** Ref: 95.196
- HIP 9564** Ref: 95.684
- HIP 9570** Ref: 95.684
- HIP 9572** Ref: 95.445
- HIP 9582** Ref: 93.150  
Comments: Possible period  $p = 429d$ .
- HIP 9586** Ref: 95.684
- HIP 9589** Ref: 95.684
- HIP 9598** Ref: 95.684 94.209
- HIP 9604** Ref: 95.327 84.043 81.051
- HIP 9622** Ref: 95.445
- HIP 9629** Ref: 95.445
- HIP 9630** Ref: 95.093 95.583 95.694 93.118 91.158  
90.059  
Comments: Sudden drop in intensity (0.4 mag) part  
way into mission. Superimposed variations at 0.15  
mag level and time scale of few days. The data appears  
not to confirm the 23-25d periods suggested by other  
authors (see Ref 90.059).
- HIP 9631** Ref: 95.445
- HIP 9640** Ref: 94.148 94.206 94.243  
Comments: Possibly E type. Other notes: D.
- HIP 9642** Ref: 95.445
- HIP 9677** Ref: 95.684 94.278 94.311 94.396 85.042  
84.043
- HIP 9690** Ref: 95.684
- HIP 9701** Comments: Possible period  $p = 6.05d$ .
- HIP 9724** Ref: 94.410
- HIP 9727** Ref: 95.064 95.295 95.684 94.265
- HIP 9748** Comments: Possible period  $p = 22.2d$ . Other  
notes: D.
- HIP 9767** Ref: 22.006 7.001
- HIP 9809** Comments: New period shorter than estimate  
in literature.
- HIP 9817** Ref: 87.121
- HIP 9836** Ref: 95.684
- HIP 9854** Comments: Possible period  $p = 13.06d$ . Other  
notes: D.
- HIP 9867** Comments: Possibly EA type. Other notes: G.
- HIP 9884** Ref: 95.062 95.390 95.644 95.683 94.209  
94.243 94.407 93.015 89.055
- HIP 9911** Ref: 95.386 94.407
- HIP 9928** Ref: 91.190 85.084 84.087 81.076 81.103  
71.018 64.009 61.005 60.002 40.003 22.006
- HIP 9932** Ref: 95.297 95.378 94.236 94.282 94.286  
93.111 93.128 89.023 82.054 77.031
- HIP 9963** Comments: Possible period  $p = 2.590d$ .
- HIP 9977** Ref: 95.684
- HIP 9982** Ref: 94.188
- HIP 9990** Ref: 95.684  
Comments: Alternative period  $p = 2.6885d$ .

- HIP 10013** Comments: Period could be spurious.  
**HIP 10022** Ref: 94.206  
**HIP 10024** Ref: 95.172 95.388  
**HIP 10027** Ref: 94.425 93.175 89.097 89.117 88.058  
 88.068 87.105 85.124 65.005  
**HIP 10053** Ref: 93.015  
**HIP 10054** Ref: 95.684  
**HIP 10055** Ref: 75.016  
**HIP 10064** Ref: 95.338 95.356 95.558 95.563 95.684  
**HIP 10069** Ref: 95.445  
**HIP 10077** Comments: Period may be half,  $p = 0.5469d$ .  
**HIP 10114** Ref: 95.697  
**HIP 10115** Ref: 95.062  
**HIP 10137** Ref: 95.701  
**HIP 10138** Ref: 95.386 95.445  
**HIP 10140** Ref: 95.087 95.122 95.235 94.043 94.188  
**HIP 10155** Ref: 94.204  
 Comments: Period possibly spurious.  
**HIP 10164** Ref: 95.445  
**HIP 10176** Ref: 94.278  
**HIP 10180** Ref: 95.684  
**HIP 10192** Ref: 95.203 91.066 30.012 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 10212** Ref: 95.445 95.671  
**HIP 10215** Ref: 95.445  
**HIP 10220** Ref: 95.684  
**HIP 10227** Ref: 95.338  
**HIP 10228** Ref: 95.172 95.388  
**HIP 10248** Ref: 7.001  
 Comments: Possible period  $p = 30.2d$ .  
**HIP 10253** Ref: 86.017  
**HIP 10258** Ref: 94.248  
**HIP 10270** Ref: 87.104  
 Comments: Period  $p = 0.305d$  could not be recognised, nor another period. Probable misidentification. Measurements disturbed by a double star at SE. Other notes: G.  
**HIP 10280** Ref: 95.062 95.428 95.430 93.092 93.118  
 89.060 85.193 84.140  
**HIP 10303** Ref: 95.445  
**HIP 10305** Ref: 95.445  
**HIP 10306** Ref: 95.432 93.050  
**HIP 10322** Ref: 95.193  
**HIP 10324** Ref: 94.036 94.148 94.259 93.092  
**HIP 10326** Ref: 95.445  
**HIP 10332** Ref: 90.004 71.018 64.009 62.001 61.005  
 35.001 30.013 22.006  
 Comments: Very high noise level, needs further examination. Period might be correct.  
**HIP 10340** Ref: 93.092  
**HIP 10350** Ref: 95.062  
**HIP 10366** Ref: 93.092  
**HIP 10376** Ref: 94.188  
**HIP 10378** Ref: 94.406  
**HIP 10379** Ref: 95.478 95.523 95.563 95.684 95.690  
**HIP 10391** Ref: 75.016  
**HIP 10403** Ref: 94.257  
**HIP 10413** Ref: 95.697  
**HIP 10422** Ref: 95.701  
**HIP 10440** Ref: 95.445  
**HIP 10443** Ref: 95.632  
**HIP 10449** Ref: 95.122 95.193 95.445 94.043  
**HIP 10458** Ref: 95.701  
**HIP 10472** Ref: 95.084 30.013 22.006  
**HIP 10486** Comments: Drop of 0.2 mag in brightness would indicate shell. Also signs of shorter-term variations (period 1.5 to 2 days, amplitude up to 0.1 mag).  
**HIP 10489** Ref: 95.387  
**HIP 10491** Ref: 95.378 95.697 94.236 94.282 94.286  
 93.111 93.128  
**HIP 10497** Ref: 95.383 95.433 95.441 95.442 95.445  
 95.697 94.280  
**HIP 10512** Ref: 95.445 95.684  
**HIP 10514** Ref: 93.092  
**HIP 10522** Comments: Possible period  $p = 12.10d$ .  
**HIP 10535** Ref: 94.206  
**HIP 10541** Ref: 75.016  
**HIP 10552** Ref: 94.206  
**HIP 10559** Ref: 95.684  
**HIP 10576** Ref: 91.002 88.020 86.141 85.222 70.009  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 10579** Comments: Possibly EA type.  
**HIP 10592** Ref: 95.558  
**HIP 10599** Ref: 95.445  
**HIP 10602** Ref: 94.278 94.311  
**HIP 10615** Ref: 85.147  
**HIP 10629** Ref: 95.193 95.383 94.256 94.407  
**HIP 10641** Ref: 75.016  
**HIP 10644** Ref: 95.356 95.383 95.644 95.658 94.188  
 94.259 94.407  
**HIP 10659** Comments: Possibly EA type with period related to 10.7d. Other notes: G.  
**HIP 10670** Ref: 95.684 94.224  
**HIP 10680** Ref: 94.406  
 Comments: Possibly EA type with period related to 7.06d.  
**HIP 10687** Ref: 95.303 95.484 95.588 95.598 95.692  
 93.093 93.095 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 10700** Ref: 95.445  
**HIP 10704** Ref: 83.021 78.003  
 Comments: Confirmation of period from Ref 83.021.  
**HIP 10722** Ref: 93.073 93.118  
**HIP 10723** Ref: 95.432 95.445 93.050  
**HIP 10732** Ref: 95.684  
**HIP 10793** Ref: 95.280 95.684 93.042  
**HIP 10795** Ref: 95.684  
**HIP 10798** Ref: 95.386 95.445 94.084  
**HIP 10799** Ref: 95.701  
**HIP 10805** Ref: 95.338  
**HIP 10814** Ref: 95.684  
**HIP 10816** Ref: 95.523 94.357  
**HIP 10819** Ref: 95.684  
**HIP 10826** Ref: 95.034 95.057 95.181 95.299 95.319  
 95.380 95.387 95.530 95.567 95.581 95.588 95.643  
 95.680 95.692 94.273 94.290 94.413 92.025 92.082  
 92.086 91.084 90.048 90.050 88.020 88.041 86.062  
 86.141 85.072 85.222 84.070 82.025 82.043 81.016  
 81.109 77.027 70.009 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 10829** Ref: 95.387 30.013 22.006 7.001  
**HIP 10830** Ref: 95.684  
**HIP 10854** Ref: 95.445 95.684  
**HIP 10893** Ref: 95.684  
**HIP 10904** Ref: 95.387  
**HIP 10923** Ref: 95.701  
**HIP 10944** Ref: 95.327 95.684 94.202 94.213 85.046  
 84.043  
**HIP 10961** Ref: 90.101 90.115 90.118  
**HIP 10969** Ref: 93.092  
**HIP 10977** Ref: 95.445  
**HIP 10995** Ref: 95.387  
 Comments: Amplitude smaller than given in Hipparcos Input Catalogue, minimum brighter.  
**HIP 11001** Ref: 95.684  
**HIP 11018** Ref: 95.172  
**HIP 11020** Ref: 95.431 94.232  
**HIP 11021** Ref: 94.542  
**HIP 11023** Ref: 95.445 94.280  
**HIP 11029** Ref: 95.445 95.684  
**HIP 11046** Ref: 95.445 95.684  
**HIP 11060** Ref: 95.523 95.684 95.690  
**HIP 11072** Ref: 95.064 95.386 95.445 95.644 94.084  
 94.256 94.259 94.407  
**HIP 11093** Ref: 95.319 94.467 91.013 30.013 22.006  
 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 11095** Ref: 95.704 94.423 93.211 91.102

- HIP 11098** Ref: 95.431  
**HIP 11099** Ref: 95.388 95.515 95.535  
**HIP 11102** Ref: 95.445 95.684  
**HIP 11108** Ref: 95.445  
**HIP 11124** Ref: 95.697 94.246  
**HIP 11129** Ref: 95.445 94.280  
**HIP 11139** Ref: 94.406  
**HIP 11174** Ref: 95.411 95.448 94.177 93.212 92.110  
 87.106 86.002 85.054 82.001 80.006  
**HIP 11192** Ref: 95.328  
 Comments: Alternative period  $p = 2.5796d$ .  
**HIP 11218** Ref: 94.056 93.050  
**HIP 11231** Ref: 95.445  
**HIP 11258** Ref: 94.202 93.015  
**HIP 11261** Ref: 95.143 95.684  
**HIP 11279** Ref: 95.523  
**HIP 11284** Ref: 95.387  
**HIP 11304** Ref: 93.092  
**HIP 11314** Comments: Period possibly ambiguous.  
**HIP 11318** Comments: Could be half the period with secondary maximum almost invisible. The double-star analysis indicates that it is probably the fainter (B) component which is variable. Other notes: D.  
**HIP 11346** Ref: 95.359 84.202 83.037 81.053 76.022  
**HIP 11348** Ref: 95.327 95.328 95.684 94.202 84.043  
 71.003  
**HIP 11350** Ref: 95.203 95.692 94.290 91.002 89.031  
 88.020 82.043 81.016 77.027 74.036 70.009 22.006  
 7.001  
**HIP 11387** Ref: 95.697  
**HIP 11390** Ref: 95.347 94.191 90.024 84.078  
 Comments: Period from Ref 94.191 not confirmed.  
**HIP 11394** Ref: 95.388 95.570  
**HIP 11396** Ref: 95.445 94.280  
**HIP 11405** Ref: 94.406  
**HIP 11407** Ref: 94.311  
**HIP 11420** Ref: 95.447 95.482 94.299 93.146 91.190  
 85.084 84.087 81.103 71.018 64.009 62.001 61.005  
 60.002 40.003 30.012 22.006  
**HIP 11423** Ref: 22.006  
 Comments: Possible period  $p = 258d$ .  
**HIP 11438** Ref: 95.445  
**HIP 11452** Ref: 94.206  
**HIP 11455** Ref: 7.001  
**HIP 11474** Ref: 94.206  
**HIP 11477** Ref: 95.684 94.311  
**HIP 11484** Ref: 95.564  
**HIP 11486** Ref: 95.684  
**HIP 11503** Ref: 94.265  
**HIP 11517** Ref: 95.297 95.378 95.697 94.236 94.409  
 93.111 93.128 82.054 77.031 69.011 66.008  
**HIP 11524** Ref: 95.445  
**HIP 11542** Ref: 94.206  
**HIP 11548** Ref: 95.432 93.050  
**HIP 11565** Ref: 95.445  
**HIP 11569** Ref: 95.004 95.327 95.684 94.139 94.202  
 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 11575** Ref: 95.445  
**HIP 11578** Ref: 95.684 93.003  
**HIP 11582** Ref: 95.057 95.361 95.581 95.648 95.692  
 94.039 94.057 94.418 88.013 88.020 84.184 77.027  
 22.006 7.001  
**HIP 11592** Ref: 93.211 91.102  
**HIP 11593** Ref: 95.143 95.684  
**HIP 11600** Ref: 95.445  
**HIP 11614** Ref: 93.211 91.102  
**HIP 11622** Ref: 95.445 95.684  
**HIP 11625** Ref: 95.095 95.523 95.690  
**HIP 11629** Ref: 95.701  
**HIP 11644** Ref: 95.347 95.684 94.191 90.024 90.025  
 Comments: Possible confirmation of period from Ref 94.191.  
**HIP 11648** Ref: 94.196 92.011  
 Comments: Period  $p = 30d$  not recognised.
- HIP 11670** Ref: 93.015  
**HIP 11678** Ref: 95.347 95.684 94.191 91.031 90.024  
 Comments: Data inadequate for this complex system.  
**HIP 11687** Ref: 95.684  
**HIP 11698** Ref: 85.090  
**HIP 11729** Ref: 95.445  
**HIP 11738** Ref: 94.148  
**HIP 11767** Ref: 95.448 95.467 95.478 95.580 94.171  
 94.375 94.376 94.377 94.545 93.187 92.110 88.108  
 23.002 22.006  
 Comments: Confirmation of decreasing amplitude.  
**HIP 11769** Ref: 95.146  
 Comments: Possible periods  $p = 5.789d$  and  
 $p = 17.46d$ .  
**HIP 11783** Ref: 95.379 95.432 94.056 93.015 93.050  
**HIP 11832** Ref: 95.022 95.376 95.388 95.570  
**HIP 11837** Ref: 95.098 95.570 94.357  
**HIP 11840** Ref: 95.062  
**HIP 11843** Ref: 95.445 94.265  
**HIP 11886** Ref: 95.701  
**HIP 11891** Ref: 95.570  
**HIP 11892** Ref: 95.701  
**HIP 11909** Ref: 95.701  
**HIP 11910** Ref: 95.692 88.020 82.043 81.016 77.027  
 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 11918** Ref: 94.278  
**HIP 11925** Ref: 95.445  
**HIP 11934** Comments: Period could be half.  
**HIP 11936** Comments: Possibly EA type.  
**HIP 11944** Ref: 95.701  
**HIP 11952** Ref: 95.445 95.697 94.188 94.270  
**HIP 11953** Ref: 75.016  
**HIP 11964** Ref: 95.053 95.343 95.597 95.694 95.779  
 94.265 94.380 93.118 92.066 91.054 90.104 89.059  
 89.084 77.006  
**HIP 11978** Comments: Possible period  $p = 23.77d$ .  
**HIP 11983** Ref: 95.445  
**HIP 12016** Comments: Possible period  $p = 169d$ .  
**HIP 12023** Ref: 94.202  
**HIP 12026** Ref: 94.175  
**HIP 12042** Ref: 86.017  
**HIP 12048** Ref: 95.386 95.445  
**HIP 12107** Ref: 94.204  
**HIP 12114** Ref: 95.097 95.124 95.193 95.277 95.458  
 95.475 95.510 95.594 95.671 95.698 94.007 94.188  
 94.257 94.410  
**HIP 12117** Ref: 95.343  
**HIP 12136** Comments: Possible alternative period  
 $p = 2.70856d$ .  
**HIP 12153** Ref: 95.445  
**HIP 12158** Ref: 93.030  
**HIP 12163** Comments: Possible period  $p = 12.89d$ .  
**HIP 12186** Ref: 95.386 95.445  
**HIP 12193** Ref: 94.379 89.031 88.020 86.141 85.222  
 22.006 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 12199** Ref: 82.054  
**HIP 12225** Ref: 95.445 95.684  
**HIP 12235** Ref: 94.191 90.024  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 12242** Ref: 91.157  
**HIP 12272** Ref: 95.445 93.015  
**HIP 12281** Ref: 95.445  
**HIP 12287** Ref: 94.289 93.015  
**HIP 12288** Ref: 95.445  
**HIP 12289** Ref: 95.701  
**HIP 12298** Ref: 22.006  
**HIP 12302** Ref: 95.387  
 Comments: Possible confirmation of period  $p = 378d$ .  
**HIP 12305** Ref: 95.684  
**HIP 12306** Ref: 95.386  
**HIP 12325** Ref: 30.013  
**HIP 12326** Ref: 95.242  
**HIP 12332** Ref: 95.684

- HIP 12351** Ref: 94.265  
**HIP 12353** Ref: 95.445  
**HIP 12364** Ref: 95.445  
**HIP 12373** Comments: Period could be double.  
**HIP 12387** Ref: 94.019 94.205 92.001 92.061 88.022  
 87.067 87.167 86.010 85.019 81.022 80.029 75.016  
 53.005  
 Comments: Confirmation of period from Ref 80.029.  
**HIP 12390** Ref: 95.399 94.257  
**HIP 12394** Ref: 95.515 94.278 94.311  
**HIP 12411** Ref: 95.445  
**HIP 12413** Ref: 95.684  
**HIP 12416** Ref: 95.387 7.001  
**HIP 12421** Ref: 95.445  
**HIP 12422** Ref: 91.102  
**HIP 12432** Comments: Possible period  $p = 2.8417d$ .  
**HIP 12444** Ref: 95.124 95.277 95.658 95.671 94.007  
 94.056 93.050  
**HIP 12460** Ref: 95.347 94.191 90.025  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 12465** Comments: Possible period  $p = 38d$ .  
**HIP 12472** Ref: 95.345  
**HIP 12483** Ref: 95.087 95.122 95.386 95.445 94.043  
**HIP 12485** Ref: 95.445 95.697 94.280  
**HIP 12488** Ref: 93.092  
**HIP 12489** Ref: 95.684  
**HIP 12495** Ref: 95.158 75.016  
**HIP 12529** Ref: 95.122 95.235 95.445 94.043 94.270  
 94.389  
**HIP 12543** Ref: 95.763 85.064 85.124 77.025 69.012  
 66.002 65.005 64.013 58.002  
 Comments: Accurate confirmation of 30-year old  
 ephemeris.  
**HIP 12548** Ref: 95.445  
**HIP 12552** Ref: 94.206  
**HIP 12557** Ref: 22.006  
**HIP 12565** Comments: Possible period  $p = 4.3880d$ .  
**HIP 12579** Ref: 95.087 95.122 94.043  
**HIP 12587** Comments: Possible period  $p = 24.4d$ .  
**HIP 12594** Ref: 94.196 92.011 7.001  
**HIP 12608** Ref: 95.343 95.682  
**HIP 12623** Ref: 95.313 94.257  
**HIP 12640** Ref: 95.684  
**HIP 12647** Ref: 95.684  
**HIP 12653** Ref: 95.386 95.445 94.084  
**HIP 12657** Comments: Probably EA type, but insufficient  
 data for period determination.  
**HIP 12662** Comments: Possible period  $p = 3.98d$ .  
**HIP 12676** Ref: 95.022 95.388 95.570  
**HIP 12682** Comments: Period of  $p = 12.22d$  also possible  
 (alias?).  
**HIP 12706** Ref: 95.515 95.684  
**HIP 12707** Comments: Possible periods  $p = 3.66d$  and  
 $p = 18.01d$ .  
**HIP 12716** Ref: 95.343 94.265 93.073 93.118 92.066  
 92.111 89.060  
 Comments: Possible period  $p = 6.9589d$ .  
**HIP 12717** Ref: 95.445  
**HIP 12723** Ref: 95.445  
**HIP 12731** Comments: Possible period  $p = 20.8d$ .  
**HIP 12744** Ref: 95.150 95.349 95.684  
**HIP 12748** Ref: 95.697  
**HIP 12770** Ref: 94.028 94.278 93.048 93.062 93.088  
**HIP 12772** Ref: 95.445  
**HIP 12775** Ref: 95.445  
**HIP 12777** Ref: 95.379 95.658 94.257 93.050  
**HIP 12781** Ref: 94.267 94.410  
**HIP 12788** Ref: 93.073 92.066 91.054 90.059  
**HIP 12803** Ref: 94.278  
**HIP 12814** Ref: 95.445  
**HIP 12817** Ref: 95.410 93.146 90.004 71.018 64.009  
 62.001  
**HIP 12821** Ref: 95.684  
**HIP 12823** Ref: 95.704 94.423 93.211 91.102  
**HIP 12828** Ref: 95.684 93.015 90.108 71.014  
**HIP 12829** Comments: Possible period  $p = 1.111d$ .  
**HIP 12832** Ref: 95.347 95.684 94.191 90.024 83.020  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 12833** Comments: Possibly half the period, secondary  
 minimum not visible.  
**HIP 12843** Ref: 95.379 95.658 95.698 94.234 94.248  
**HIP 12862** Ref: 95.684  
**HIP 12871** Ref: 95.445  
**HIP 12876** Ref: 95.684 94.311  
**HIP 12884** Ref: 95.701  
**HIP 12889** Ref: 95.343  
**HIP 12891** Ref: 95.412 94.538 26.003 24.004 22.006  
**HIP 12906** Ref: 89.097 80.048 65.005 22.006  
**HIP 12958** Ref: 95.701  
**HIP 12964** Ref: 95.445 93.015  
**HIP 12978** Ref: 95.445 94.271 94.280  
**HIP 13008** Ref: 95.445  
**HIP 13016** Comments: Period could be double.  
**HIP 13036** Ref: 94.289  
**HIP 13044** Ref: 95.445 94.280  
**HIP 13055** Ref: 95.499 95.567 94.036  
**HIP 13064** Ref: 95.230 95.332 94.407 92.162 22.006  
 7.001  
**HIP 13080** Ref: 95.277  
**HIP 13092** Ref: 95.230 95.588 95.692 94.196 70.009  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 13118** Ref: 95.268 95.583 94.265 94.406 93.118  
 92.026 86.133  
 Comments: Period close to period given in Ref  
 95.268.  
**HIP 13128** Ref: 94.056 93.050  
**HIP 13130** Comments: Possible period  $p = 6.58d$ .  
**HIP 13133** Ref: 95.586 95.684 95.747 94.161 94.268  
 91.130 90.122 89.079 88.073 87.082 86.141 85.129  
 85.222 84.149 79.019 74.024 66.001 66.020 65.005  
 64.010 64.011 64.013 63.004 33.004 30.005 24.004  
 22.006  
**HIP 13141** Ref: 95.684  
**HIP 13151** Ref: 93.150  
**HIP 13160** Ref: 94.406  
**HIP 13165** Ref: 95.642 94.229  
**HIP 13178** Ref: 95.095 95.684 94.407  
**HIP 13185** Comments: Possible period  $p = 384d$ .  
**HIP 13189** Comments: Possible period  $p = 12.65d$ .  
**HIP 13199** Comments: The double-star analysis indicates  
 that it is probably the fainter (B) component which is  
 variable. Other notes: D.  
**HIP 13202** Ref: 95.684  
**HIP 13209** Ref: 94.278  
**HIP 13244** Ref: 95.704 94.423 93.211 91.102  
**HIP 13254** Ref: 95.338 94.289 93.015 71.014  
**HIP 13257** Ref: 94.406  
**HIP 13262** Ref: 95.230 95.387 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 13267** Ref: 95.386 95.445  
**HIP 13268** Ref: 95.388 94.264  
**HIP 13290** Comments: Possible period  $p = 8.05d$ .  
**HIP 13296** Ref: 95.388 94.357  
**HIP 13308** Ref: 95.649  
**HIP 13313** Comments: Possible period  $p = 4.20d$ .  
**HIP 13315** Ref: 94.280  
**HIP 13328** Ref: 95.419 94.407  
**HIP 13341** Comments: Possibly E type.  
**HIP 13347** Ref: 95.684  
**HIP 13363** Ref: 95.445  
**HIP 13366** Ref: 95.445  
**HIP 13367** Ref: 95.039 95.411 94.177 94.299 92.110  
 91.088 91.190 88.028 88.050 88.108 87.007 87.171  
 86.002 86.141 85.084 85.089 85.222 84.075 84.087  
 82.090 80.054 80.065 77.040 76.011 71.018 68.012  
 64.009 62.001 40.003 22.006  
**HIP 13384** Ref: 95.230 94.196 92.162 22.006 7.001

- HIP 13388** Ref: 95.445  
**HIP 13396** Comments: Possibly half the period.  
**HIP 13402** Ref: 95.053 95.124 95.242 95.277 95.343  
 95.386 95.389 95.392 95.445 95.671 95.698 94.007  
 94.256 94.259 94.265 94.339 94.410 93.073 92.066  
 83.004  
 Comments: No confirmation of period from Ref  
 95.389.  
**HIP 13421** Ref: 95.445 95.684  
**HIP 13424** Ref: 94.206  
**HIP 13448** Ref: 95.338  
**HIP 13468** Ref: 95.172 95.388  
**HIP 13473** Ref: 95.445  
**HIP 13475** Comments: Period may be half.  
**HIP 13478** Ref: 95.445  
**HIP 13480** Ref: 95.701  
**HIP 13482** Ref: 94.280  
**HIP 13489** Ref: 95.463 95.494 95.547 95.571 94.055  
 94.322 93.091  
**HIP 13490** Ref: 94.206 93.015  
**HIP 13495** Comments: Possible period  $p = 2.614d$ .  
**HIP 13502** Ref: 95.387 95.588 95.692 94.167 94.290  
 93.081 93.192 89.031 88.020 82.043 81.016 77.027  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 13513** Ref: 95.445  
**HIP 13531** Ref: 95.081 93.015 93.043 93.092  
**HIP 13534** Ref: 95.701  
**HIP 13558** Ref: 95.134 95.210 94.265  
**HIP 13578** Ref: 95.343  
**HIP 13594** Ref: 95.210  
**HIP 13654** Ref: 95.475 94.067 94.196 94.204 94.407  
 92.162 85.193 84.140 84.170  
 Comments: Possible periods  $p = 5.814d$  and  
 $p = 156.3d$ .  
**HIP 13679** Ref: 95.399 95.445  
**HIP 13701** Ref: 94.259  
**HIP 13702** Ref: 95.445 95.671  
**HIP 13712** Ref: 94.202  
**HIP 13716** Comments: Photometry disturbed by B  
 component, 16 arcsec distant. Variability spurious. A,  
 B inversion (HIP 13714/13716).  
**HIP 13717** Ref: 95.684  
**HIP 13719** Comments: Possible period  $p = 1.0474d$ .  
**HIP 13749** Ref: 95.445 94.280  
**HIP 13756** Ref: 94.542  
 Comments: Possible period  $p = 3.68d$ .  
**HIP 13775** Ref: 95.327 95.684 84.043 78.038  
 Comments: Period from Ref 78.038 and Ref 84.043  
 confirmed.  
**HIP 13782** Ref: 95.684  
**HIP 13804** Comments: Possible period  $p = 58.4d$ .  
**HIP 13808** Ref: 95.701  
 Comments: Possibly EA type.  
**HIP 13834** Ref: 93.015 91.042  
**HIP 13843** Ref: 95.343  
**HIP 13847** Ref: 95.684  
**HIP 13874** Ref: 95.684  
**HIP 13876** Ref: 95.697  
**HIP 13879** Ref: 95.405 95.684 94.209  
**HIP 13883** Ref: 95.684 93.003  
**HIP 13884** Ref: 95.684 94.311  
**HIP 13905** Ref: 94.209  
**HIP 13914** Ref: 95.684 94.314  
**HIP 13916** Ref: 95.445  
**HIP 13937** Ref: 91.096 87.048  
 Comments: Period very stable.  
**HIP 13938** Ref: 95.210  
**HIP 13942** Ref: 95.445 95.684  
**HIP 13954** Ref: 94.311  
**HIP 13958** Ref: 94.202  
**HIP 13962** Ref: 94.407  
**HIP 13965** Ref: 93.015  
**HIP 13968** Ref: 95.389 95.392 95.445  
 Comments: No confirmation of period from Ref  
 95.389.  
**HIP 13976** Ref: 95.389 95.392 93.030  
 Comments: No confirmation of period from Ref  
 95.389.  
**HIP 13983** Ref: 94.538 93.131 80.051 70.014 30.005  
 22.006  
 Comments: Period very stable. Other notes: D.  
**HIP 13999** Ref: 95.704 94.423  
 Comments: Possibly half the period and RRc type.  
**HIP 14019** Ref: 95.204  
**HIP 14023** Ref: 95.445  
**HIP 14026** Ref: 95.704 95.773 94.202 94.423 91.174  
**HIP 14042** Ref: 95.692 88.020 82.043 81.016 77.027  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 14047** Ref: 95.684  
**HIP 14049** Comments: Period could be double.  
**HIP 14086** Ref: 95.445  
**HIP 14105** Ref: 95.445  
**HIP 14109** Ref: 95.684  
**HIP 14124** Ref: 95.445  
**HIP 14135** Ref: 95.419 94.204 94.243  
 Comments: Possible period  $p = 6.196d$ .  
**HIP 14146** Ref: 95.543 95.684  
**HIP 14150** Ref: 95.386  
**HIP 14157** Ref: 93.030  
**HIP 14181** Ref: 95.432 93.050  
**HIP 14213** Comments: Possible period  $p = 20.38d$ .  
**HIP 14229** Ref: 22.006  
**HIP 14232** Ref: 95.684  
**HIP 14234** Ref: 95.129 95.546 95.609  
**HIP 14238** Comments: Possible period  $p = 3.46d$ .  
**HIP 14240** Ref: 93.015 91.102  
**HIP 14241** Ref: 95.445  
**HIP 14258** Ref: 94.406  
**HIP 14264** Ref: 95.347 94.191 94.406 93.067 92.220  
 90.075  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 14273** Ref: 91.096 83.065 80.028  
**HIP 14277** Ref: 94.189  
**HIP 14293** Ref: 95.684  
**HIP 14328** Ref: 93.043 93.092  
**HIP 14354** Ref: 95.181 95.230 95.419 95.484 95.499  
 95.625 94.264 92.162 85.193 84.138 84.140 84.170  
 35.002 30.012 22.006 7.001  
 Comments: Possible periods  $p = 7.45d$  and  $p = 26.6d$ .  
**HIP 14377** Comments: The period  $p = 7.703d$  appears the  
 best found, but would indicate a rather asymmetric  
 (elliptical orbit) system. It is the only period found for  
 which both minima are clean.  
**HIP 14433** Comments: Possible period  $p = 4.17d$ .  
**HIP 14456** Comments: Possible period  $p = 2.46d$ .  
**HIP 14476** Ref: 94.209  
**HIP 14488** Comments: New period also fits data from  
 IBVS 199 (1967).  
**HIP 14501** Ref: 95.386 94.406  
**HIP 14514** Ref: 95.132 95.388 75.016 64.007 57.006  
**HIP 14521** Ref: 95.347 95.445 95.684 94.191 90.024  
 Comments: Possible period  $p = 0.06945d$ .  
**HIP 14526** Comments: Possible period  $p = 9.57d$ .  
**HIP 14533** Ref: 91.102  
**HIP 14537** Ref: 95.738 92.123  
**HIP 14542** Ref: 95.278 95.545 93.092 93.172 93.227  
 93.229 89.091 89.165 86.141 85.222 80.056 80.057  
 30.012 22.006 7.001  
**HIP 14544** Ref: 95.347 95.684 94.191 93.067  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 14551** Ref: 95.445 95.684

- HIP 14576** Ref: 95.006 95.164 95.197 95.226 95.400  
95.405 95.477 95.497 95.545 95.586 95.589 95.592  
95.669 95.699 95.715 94.096 94.140 94.265 94.278  
93.267 90.056 89.013 89.097 89.169 86.141 85.222  
84.164 80.012 74.040 63.005 31.001 24.004 22.006  
7.001  
Comments: 977.0 cycles since zero point from  
GCVS4. Other notes: D.
- HIP 14589** Comments: Spikes may be due to flares or to  
accidental contamination from the primary of CoD -24  
1458. Variability only suspected. Other notes: D.
- HIP 14592** Ref: 94.406
- HIP 14594** Ref: 95.087 95.122 95.193 95.235 95.259  
95.379 95.383 95.445 95.541 95.664 95.686 95.691  
94.043 94.244 94.270 94.346 94.371 94.389 94.407
- HIP 14601** Ref: 95.297 95.335 95.371 95.378 95.379  
95.697 94.123 94.236 94.282 94.286 94.409 93.129  
92.207 89.063 89.153 88.005 88.039 88.132 88.141  
87.072 87.155 85.228 82.054 81.073 77.031 77.036  
76.037 73.026 69.011 66.007 66.008 64.002 61.001  
40.003 35.001 22.006
- HIP 14607** Ref: 95.445
- HIP 14610** Ref: 93.118 90.059
- HIP 14632** Ref: 95.379 95.383 95.658 95.698 94.407
- HIP 14637** Ref: 94.209
- HIP 14668** Ref: 95.644 94.407
- HIP 14699** Ref: 67.001
- HIP 14703** Comments: Possibly EA type.
- HIP 14705** Ref: 95.445
- HIP 14719** Ref: 95.684
- HIP 14736** Ref: 84.043 81.036
- HIP 14747** Ref: 95.697 94.280
- HIP 14748** Ref: 95.062
- HIP 14750** Comments: Possible period  $p = 470d$ .
- HIP 14757** Ref: 95.445
- HIP 14763** Ref: 93.073 93.092 93.118 92.111 90.059  
Comments: Possible period  $p = 2.0623d$ .
- HIP 14792** Ref: 91.042
- HIP 14797** Ref: 94.406
- HIP 14817** Ref: 95.405 94.209
- HIP 14824** Ref: 93.215  
Comments: Possible period  $p = 17.9d$ .
- HIP 14844** Ref: 95.684
- HIP 14856** Ref: 95.378 95.697 94.236 94.282 94.286  
94.409 93.111 93.128 77.031 69.011 66.008
- HIP 14862** Ref: 95.684
- HIP 14879** Ref: 95.064 94.257 94.265
- HIP 14887** Ref: 95.405 94.209
- HIP 14893** Ref: 95.684 94.202 93.108 84.043 83.061  
78.018  
Comments: Period from Ref 84.043 confirmed.
- HIP 14914** Ref: 95.062
- HIP 14915** Ref: 95.419 90.108
- HIP 14930** Ref: 95.309 94.196 92.011 91.102 83.115
- HIP 14936** Ref: 86.090 84.167  
Comments: Period from Hipparcos and literature  
data  $p = 4.451626d$  (5155 cycles).
- HIP 14953** Ref: 94.202
- HIP 14954** Ref: 95.432 94.056 94.257 93.050
- HIP 14980** Ref: 95.276
- HIP 14992** Comments: Possible period  $p = 21.8d$ .
- HIP 15003** Ref: 95.430 94.047 94.269 94.419 93.118  
92.081 92.111 89.060 85.124 85.211  
Comments: Period from Hipparcos and literature  
data  $p = 8.038196d$  (2671 cycles).
- HIP 15004** Ref: 95.062 94.125
- HIP 15024** Ref: 95.445
- HIP 15026** Comments: Possible period  $p = 250d$ , plus  
longer time scale variations.
- HIP 15027** Ref: 95.411 95.697 94.137 86.032 82.035  
81.076 76.025 71.018 67.012 67.013 67.014 64.009  
60.002  
Comments: Period from Hipparcos data and  
literature  $p = 2.2132867d$  (3451 cycles).
- HIP 15041** Ref: 93.118 90.059
- HIP 15063** Ref: 95.089 95.191 95.388 94.155 91.097  
85.074  
Comments: Period from Ref 85.074 confirmed.
- HIP 15090** Ref: 91.096 90.133 87.138 81.055 79.015  
79.041
- HIP 15092** Ref: 95.157 95.217 91.021 91.056 89.060  
77.029  
Comments: Ephemeris from Ref 91.056 confirmed.
- HIP 15095** Ref: 95.445
- HIP 15099** Ref: 95.386 95.445
- HIP 15110** Ref: 95.684
- HIP 15125** Ref: 95.445 95.684
- HIP 15131** Ref: 95.386 95.445 94.084
- HIP 15133** Comments: Possible period  $p = 3.8d$ .
- HIP 15139** Ref: 95.388
- HIP 15145** Ref: 95.230
- HIP 15154** Ref: 95.684
- HIP 15158** Ref: 95.445
- HIP 15191** Ref: 95.684
- HIP 15192** Ref: 95.146 95.338 95.684 94.367 94.407
- HIP 15197** Ref: 95.684 93.066 93.097
- HIP 15201** Ref: 95.445 93.015
- HIP 15204** Ref: 95.684 85.074  
Comments: No confirmation of period from Ref  
85.074.
- HIP 15230** Comments: Possible period  $p = 8.177d$ .
- HIP 15233** Ref: 95.697
- HIP 15241** Comments: Possible period  $p = 1.98d$  or  
double if E type.
- HIP 15244** Ref: 95.445
- HIP 15261** Ref: 95.388
- HIP 15282** Ref: 95.684
- HIP 15304** Ref: 91.042
- HIP 15309** Ref: 95.684
- HIP 15310** Ref: 91.042
- HIP 15330** Ref: 95.445 94.084 94.259
- HIP 15334** Ref: 95.684
- HIP 15338** Ref: 95.574
- HIP 15357** Ref: 95.684
- HIP 15371** Ref: 95.087 95.122 95.399 95.445 94.043  
94.056 94.084 94.259 93.050
- HIP 15394** Ref: 95.445
- HIP 15404** Ref: 95.276 95.515
- HIP 15413** Ref: 95.445
- HIP 15416** Ref: 95.390
- HIP 15421** Ref: 95.558
- HIP 15442** Ref: 95.384 95.386 95.445
- HIP 15444** Ref: 95.515 95.574
- HIP 15457** Ref: 95.011 95.124 95.277 95.285 95.379  
95.399 95.445 95.475 95.631 95.644 95.658 95.671  
95.698 94.007 94.084 94.232 94.259 94.407 94.410  
Comments: Photometric period close to rotational  
period.
- HIP 15465** Ref: 95.692 91.002 88.020 82.043 81.016  
77.027 74.036 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 15474** Ref: 95.475 94.204  
Comments: Possible period  $p = 259d$ .
- HIP 15479** Comments: Possible period  $p = 4.89d$ .
- HIP 15481** Ref: 94.371 94.389 93.006 91.059
- HIP 15506** Ref: 90.068
- HIP 15510** Ref: 95.379 95.386 95.427 95.698 94.084  
94.259 94.410
- HIP 15514** Ref: 95.667
- HIP 15520** Ref: 87.141  
Comments: Possible period  $p = 700d$ .
- HIP 15530** Ref: 93.192 30.013 22.006
- HIP 15540** Ref: 95.704 94.423
- HIP 15547** Ref: 95.684
- HIP 15549** Ref: 95.093 95.667
- HIP 15563** Ref: 91.042
- HIP 15583** Ref: 95.445
- HIP 15585** Ref: 95.445
- HIP 15643** Ref: 95.445 94.259
- HIP 15648** Ref: 95.684

- HIP 15696** Ref: 95.093 95.667 93.015  
**HIP 15700** Ref: 95.684  
**HIP 15709** Ref: 95.445 95.697 94.280  
**HIP 15721** Comments: Possible period  $p = 11.6d$ . Very uncertain.  
**HIP 15726** Ref: 91.064 90.149  
 Comments: Not an RRc as stated in literature.  
**HIP 15737** Ref: 95.390 94.407  
**HIP 15746** Comments: Two minima observed, at JD 2 448 085.064 and 2 448 525.332. Actual minimum not seen, only descending branch. Period thus related to  $p = 440.268d$ .  
**HIP 15769** Ref: 95.558  
**HIP 15770** Ref: 95.515  
 Comments: Possible period  $p = 4.96d$ .  
**HIP 15771** Ref: 95.445  
**HIP 15774** Ref: 95.445  
**HIP 15776** Ref: 95.445  
**HIP 15807** Ref: 95.206 93.015 93.092 93.118 85.193 84.140  
**HIP 15811** Ref: 64.013 30.013 22.006 7.001  
 Comments: Period from Hipparcos and literature  $p = 0.8494017d$  (17809 cycles).  
**HIP 15814** Ref: 95.276  
**HIP 15819** Ref: 94.278  
**HIP 15850** Ref: 95.445  
**HIP 15862** Ref: 95.347 94.191 90.024 84.177  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 15863** Ref: 95.066 95.431 95.467 95.478 95.483 95.574 94.041  
 Comments: Periods presented in literature do not fit data.  
**HIP 15870** Ref: 95.684  
**HIP 15878** Ref: 95.276  
**HIP 15900** Ref: 95.419 93.015 93.092  
**HIP 15904** Ref: 95.445  
**HIP 15919** Ref: 95.445  
**HIP 15925** Ref: 95.684  
**HIP 15939** Comments: Possible period  $p = 1.24d$ .  
**HIP 15953** Ref: 81.117  
**HIP 15968** Ref: 95.445  
**HIP 15979** Ref: 95.684  
**HIP 15984** Ref: 94.367  
**HIP 15987** Ref: 95.445  
**HIP 15988** Ref: 94.278 94.403  
**HIP 16012** Ref: 95.445  
**HIP 16029** Ref: 95.445  
**HIP 16042** Ref: 95.006 95.093 95.164 95.171 95.206 95.268 95.430 95.475 95.477 95.592 95.596 95.667 95.694 95.702 94.040 94.125 94.134 94.140 94.265 93.014 93.118 93.196 92.064 92.065 92.111 89.156 87.073 86.030 86.046 86.102 85.074 85.193 84.083 84.140 84.181  
 Comments: Period from Ref 85.074 confirmed.  
**HIP 16069** Ref: 95.445  
**HIP 16070** Ref: 95.704 94.423  
**HIP 16071** Comments: Possible period  $p = 7.64d$ .  
**HIP 16077** Ref: 95.150 95.684  
**HIP 16083** Ref: 94.265 94.278  
**HIP 16126** Ref: 91.043 88.020 30.012 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 16134** Ref: 95.445  
**HIP 16137** Ref: 95.276  
**HIP 16143** Ref: 94.206  
**HIP 16147** Ref: 94.209 94.367  
**HIP 16168** Ref: 95.684  
**HIP 16169** Ref: 95.193 95.445 94.188  
**HIP 16181** Ref: 94.206  
**HIP 16195** Comments: Possible period  $p = 33.6d$ .  
**HIP 16203** Ref: 95.635  
**HIP 16204** Comments: Possible period  $p = 27.6d$ .  
**HIP 16210** Ref: 95.574 94.209 93.071  
**HIP 16212** Ref: 93.030  
**HIP 16214** Ref: 95.433 95.445 95.697 94.280  
**HIP 16228** Ref: 94.278  
**HIP 16244** Ref: 95.515  
**HIP 16245** Ref: 94.056 93.050  
**HIP 16247** Ref: 93.030  
**HIP 16252** Ref: 95.574 94.278  
**HIP 16263** Ref: 95.143 95.684  
**HIP 16266** Ref: 95.445  
**HIP 16267** Comments: Possible period  $p = 4.88d$ . Other notes: D.  
**HIP 16281** Ref: 95.146 95.296 95.563 95.684  
 Comments: Possible period  $p = 16.8d$ .  
**HIP 16285** Ref: 95.445 95.684  
**HIP 16292** Ref: 95.684  
**HIP 16303** Ref: 95.684  
**HIP 16310** Ref: 95.445  
**HIP 16315** Comments: Possibly a dM eclipsing binary. Other notes: G.  
**HIP 16319** Comments: Possible period  $p = 42.0d$ .  
**HIP 16321** Ref: 95.697 94.236  
**HIP 16328** Ref: 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 16329** Ref: 91.042  
**HIP 16339** Ref: 95.684 85.074 79.034 77.003  
 Comments: Period from Ref 85.074 confirmed.  
**HIP 16340** Ref: 95.574 94.278 84.033  
**HIP 16341** Ref: 94.278  
**HIP 16357** Ref: 94.406  
**HIP 16369** Ref: 93.092  
**HIP 16404** Ref: 95.087 95.122 95.193 95.235 94.043  
**HIP 16405** Ref: 95.445  
**HIP 16411** Ref: 95.684  
**HIP 16424** Ref: 95.143 95.684  
**HIP 16430** Ref: 94.278  
**HIP 16438** Ref: 86.017  
**HIP 16447** Ref: 94.278  
**HIP 16449** Ref: 95.684  
**HIP 16450** Ref: 95.515  
**HIP 16470** Ref: 94.253 94.278 85.175 85.205 85.233 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 16489** Ref: 94.289  
**HIP 16496** Ref: 84.001 78.022 74.005  
 Comments: Period from Hipparcos and literature  $p = 2.664153d$  (7493 cycles).  
**HIP 16499** Ref: 94.289 93.015  
**HIP 16503** Ref: 94.196  
 Comments: Possible periods  $p = 64.6d$  and  $p = 10.53d$ .  
**HIP 16511** Ref: 94.278  
**HIP 16516** Ref: 95.574 94.019 81.115 75.016 65.001  
 Comments: Ref 81.115: 3 sine-wave components present,  $p = 0.201779d$ ,  $p = 0.198085d$ ,  $p = 0.227099d$ . The first two are seen in Hipparcos data.  
**HIP 16517** Ref: 95.534 91.042  
**HIP 16518** Ref: 95.632 94.209 94.367  
**HIP 16529** Ref: 91.042  
**HIP 16537** Ref: 95.011 95.019 95.068 95.145 95.277 95.290 95.299 95.386 95.427 95.470 95.475 95.606 95.625 95.631 95.638 95.666 95.671 95.691 95.698 94.007 94.234 94.259 94.265 94.339 94.410 94.537 85.171  
 Comments: Ref 95.638: Period of rotation 11.10d, cyclic variation 5 year.  
**HIP 16558** Ref: 95.445  
**HIP 16563** Ref: 94.265  
**HIP 16587** Ref: 95.684  
**HIP 16591** Ref: 95.684 85.074  
**HIP 16599** Ref: 95.684  
**HIP 16602** Ref: 94.206  
**HIP 16611** Ref: 94.278  
**HIP 16628** Ref: 95.445  
**HIP 16641** Ref: 95.445 95.671  
**HIP 16647** Ref: 89.031 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 16649** Ref: 95.515 94.278

- HIP 16661** Ref: 95.445  
**HIP 16664** Ref: 95.684  
**HIP 16677** Ref: 95.684  
**HIP 16691** Ref: 95.445  
**HIP 16695** Ref: 95.445  
**HIP 16713** Ref: 95.584 92.111 89.060 85.074  
 Comments: No confirmation of period from Ref 85.074.  
**HIP 16725** Ref: 95.684  
**HIP 16737** Comments: Possible period  $p = 8.9d$ .  
**HIP 16758** Ref: 94.055  
**HIP 16770** Ref: 95.445  
**HIP 16775** Comments: Confirmation of SR period.  
**HIP 16782** Ref: 95.276 95.515  
**HIP 16803** Ref: 95.328 95.684 94.202 85.042 85.045 84.043  
 Comments: Period from Ref 84.043 and Ref 85.045 confirmed.  
**HIP 16826** Ref: 95.063 95.112 95.232 94.403 94.536 87.141  
 Comments: Possible period  $p = 12.05d$ .  
**HIP 16829** Ref: 94.423 93.211  
**HIP 16846** Ref: 95.006 95.053 95.054 95.093 95.164 95.206 95.224 95.268 95.321 95.364 95.430 95.475 95.524 95.534 95.583 95.596 95.628 95.667 95.694 95.695 95.702 94.013 94.040 94.047 94.125 94.134 94.140 94.145 94.154 94.248 94.257 94.265 94.386 94.419 93.073 93.118 93.120 93.184 93.272 92.007 92.064 92.065 92.066 92.111 91.087 91.200 90.110 89.019 88.003 88.128 87.010 87.014 87.073 87.118 87.132 86.013 86.046 86.112 85.193 85.224 85.242 84.076 84.083 84.086 84.140 84.170 83.034 83.052 83.116 81.069  
**HIP 16852** Ref: 95.379 95.383 95.386 95.399 95.432 95.644 95.694 95.698 94.056 94.248 94.259 94.265 94.407 93.003 93.050  
**HIP 16859** Ref: 94.202 84.043 81.051  
**HIP 16870** Ref: 95.700  
**HIP 16879** Ref: 95.430 94.125 94.265 93.118 92.111 89.060 85.183 85.193  
 Comments: Possible alternative period  $p = 11.285d$ .  
**HIP 16908** Ref: 91.042  
**HIP 16924** Ref: 95.684  
**HIP 16966** Ref: 95.276  
**HIP 17001** Ref: 95.445 94.280  
**HIP 17007** Ref: 95.684  
**HIP 17024** Comments: Possibly EA type.  
**HIP 17026** Ref: 95.684  
**HIP 17027** Ref: 95.445  
**HIP 17032** Ref: 94.111  
**HIP 17040** Comments: Possibly E type.  
**HIP 17042** Comments: Period may be double.  
**HIP 17076** Ref: 95.389 95.392 94.138  
 Comments: No confirmation of period from Ref 95.389.  
**HIP 17097** Ref: 95.445  
**HIP 17103** Ref: 95.694 94.134  
**HIP 17118** Ref: 94.406  
**HIP 17120** Ref: 95.445  
**HIP 17128** Ref: 91.042  
**HIP 17132** Ref: 93.030  
**HIP 17136** Ref: 93.092  
**HIP 17145** Comments: Possible period  $p = 30.2d$ .  
**HIP 17147** Ref: 95.087 95.122 95.193 95.383 95.386 95.399 95.445 95.697 94.043 94.056 94.188 94.407 93.050  
**HIP 17181** Ref: 95.684  
**HIP 17183** Ref: 95.445  
**HIP 17203** Ref: 84.033  
**HIP 17214** Ref: 95.445  
**HIP 17223** Ref: 95.684  
**HIP 17246** Ref: 95.697  
**HIP 17257** Ref: 95.361 95.509 95.680 94.078 94.418 30.013 22.006 7.001  
**HIP 17296** Ref: 95.303 95.419 95.499 93.093 93.095 88.077  
**HIP 17304** Ref: 94.311  
**HIP 17313** Ref: 94.055  
**HIP 17333** Comments: Period given probably incorrect, but related to proper period.  
**HIP 17336** Ref: 94.406  
**HIP 17351** Ref: 95.700  
**HIP 17358** Ref: 95.054 95.388 95.574 94.314  
**HIP 17364** Ref: 95.445  
**HIP 17373** Comments: Possible period  $p = 28.5d$ .  
**HIP 17378** Ref: 95.383 95.644 95.671 94.042 94.407 94.410 93.015 85.171  
**HIP 17379** Comments: Possible period  $p = 1.78d$ .  
**HIP 17383** Ref: 95.445  
**HIP 17387** Ref: 95.022  
**HIP 17395** Ref: 95.684  
**HIP 17401** Ref: 94.246  
**HIP 17408** Ref: 95.062  
**HIP 17419** Ref: 95.697  
**HIP 17439** Ref: 95.445  
**HIP 17440** Ref: 93.092  
**HIP 17442** Comments: Possible period  $p = 5.089d$ .  
 Fainter than expected by 0.5 mag.  
**HIP 17447** Ref: 94.432  
**HIP 17448** Ref: 95.130 95.683 94.357 94.367 94.367 94.398 85.074 84.033 83.021  
 Comments: Period from Ref 85.074 confirmed. The double-star analysis indicates that it is the fainter (B) component which is variable. Other notes: D.  
**HIP 17453** Ref: 95.684  
**HIP 17455** Ref: 94.202  
**HIP 17457** Ref: 94.278  
**HIP 17460** Ref: 95.684 94.209  
**HIP 17465** Ref: 95.022 94.367 94.367 94.398  
**HIP 17468** Ref: 94.398  
**HIP 17475** Ref: 95.684  
**HIP 17489** Ref: 94.188 94.246 94.278 94.367 87.074  
**HIP 17499** Ref: 95.063 95.125 94.314 87.074  
**HIP 17527** Ref: 95.338 95.515 95.580 94.209 94.246 94.278 94.403  
**HIP 17529** Ref: 95.385  
**HIP 17531** Ref: 95.125 94.104 94.403 87.074  
**HIP 17544** Ref: 95.445  
**HIP 17573** Ref: 95.683 94.278 94.367 87.074  
**HIP 17579** Ref: 95.515 94.246 94.278 94.367 87.074  
**HIP 17584** Ref: 95.574  
**HIP 17587** Ref: 95.684 93.015 93.092  
**HIP 17588** Ref: 94.278 87.074  
**HIP 17595** Ref: 95.445  
**HIP 17608** Ref: 95.683 94.198 94.278 94.367 93.025 87.074  
**HIP 17618** Ref: 95.684  
**HIP 17631** Ref: 93.126  
 Comments: Period from Ref 93.126 not confirmed.  
**HIP 17639** Ref: 95.433 95.445 95.697 94.280  
**HIP 17651** Ref: 94.056 94.289 93.015 93.050  
**HIP 17664** Ref: 94.206 94.246 93.025  
**HIP 17666** Ref: 95.383 94.162 94.256 94.407  
 Comments: Possibly E type. The double-star analysis indicates that it is probably the fainter (B) component which is variable. Other notes: D.  
**HIP 17671** Ref: 95.445  
**HIP 17675** Ref: 94.406  
**HIP 17678** Ref: 94.204  
 Comments: Possible period  $p = 1.237d$ .  
**HIP 17683** Ref: 95.445 94.138  
**HIP 17689** Ref: 95.445  
**HIP 17691** Ref: 95.701  
**HIP 17692** Ref: 94.246  
**HIP 17702** Ref: 95.125 95.269 95.571 95.683 94.198 94.278 94.314 94.367 94.403  
**HIP 17704** Ref: 95.305  
**HIP 17707** Ref: 95.574  
**HIP 17716** Ref: 95.445 94.280



- HIP 17717** Ref: 95.684 88.016 85.158  
**HIP 17735** Ref: 93.126  
 Comments: Period from Ref 93.126 not confirmed.  
**HIP 17748** Ref: 95.386  
**HIP 17755** Ref: 95.558  
**HIP 17771** Ref: 95.642 94.229  
**HIP 17772** Ref: 95.574  
**HIP 17776** Ref: 94.246 94.367  
**HIP 17779** Ref: 91.042  
**HIP 17785** Ref: 95.701  
**HIP 17787** Ref: 91.102  
**HIP 17791** Ref: 94.246  
**HIP 17797** Ref: 95.684  
**HIP 17805** Ref: 95.445  
**HIP 17821** Ref: 95.230 94.196  
 Comments: Possible period  $p = 130d$ .  
**HIP 17846** Ref: 95.347 95.684 94.191 94.367 90.024 90.045 81.101 80.071  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 17847** Ref: 95.095 95.125 95.338 95.683 94.278 94.314 94.403 87.074  
**HIP 17851** Ref: 95.063 95.095 95.112 95.143 95.252 94.126 94.206 94.403 94.446 94.509 93.223 91.171 90.036 88.001 88.075 88.080 88.088 87.074 87.116 86.116 85.165 84.174 80.056  
**HIP 17854** Ref: 95.684  
**HIP 17858** Ref: 95.684  
**HIP 17862** Ref: 94.246  
**HIP 17873** Comments: Possible period  $p = 1.985d$ .  
**HIP 17881** Ref: 30.013 22.006  
**HIP 17884** Ref: 94.542 88.077  
**HIP 17886** Ref: 95.684 93.126 90.151 88.065 87.091  
**HIP 17889** Comments: Possible period  $p = 1.52d$ .  
**HIP 17890** Ref: 95.077 95.342 94.049 94.211 94.212  
**HIP 17891** Ref: 95.684  
**HIP 17900** Ref: 95.515 94.246 94.278  
**HIP 17903** Ref: 91.102  
**HIP 17921** Ref: 84.043  
**HIP 17923** Ref: 95.515 93.025  
**HIP 17932** Ref: 93.092 93.118 85.182 85.210  
**HIP 17954** Ref: 95.684 94.206  
**HIP 17959** Ref: 95.684  
**HIP 17962** Ref: 95.249 95.368 95.409 95.516 95.534 95.694 94.265 94.546 93.118 93.176 92.111 92.154 92.204 91.079 89.097 88.029 87.096 87.105 85.124 85.199 85.214 84.132 83.105 81.003 81.066 76.016 74.023  
 Comments: Eclipses barely recognisable, but well established in literature. Period and zero point from Ref 85.199, also confirmed by radial velocities (Ref 81.003).  
**HIP 17978** Ref: 95.284 95.445  
**HIP 17993** Comments: Possible period  $p = 3.24d$ .  
**HIP 17999** Ref: 94.246  
**HIP 18032** Ref: 95.445  
**HIP 18033** Ref: 85.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 18045** Ref: 95.445  
**HIP 18048** Comments: Possible period  $p = 31.36d$ .  
**HIP 18050** Ref: 94.246  
**HIP 18080** Ref: 94.456 83.071  
 Comments: Period from Hipparcos and literature  $p = 0.5076638d$  (9949 cycles).  
**HIP 18081** Ref: 95.632  
**HIP 18082** Ref: 95.445 94.389  
**HIP 18094** Ref: 95.684 93.097  
**HIP 18111** Ref: 93.126  
 Comments: Period from Ref 93.126 not confirmed.  
**HIP 18141** Ref: 94.278  
**HIP 18165** Comments: Possible period  $p = 1.4077d$ .  
**HIP 18170** Ref: 95.350 95.445 95.658 93.075 91.042  
**HIP 18173** Ref: 95.445  
**HIP 18175** Ref: 95.029  
**HIP 18183** Ref: 95.701  
**HIP 18216** Ref: 86.042  
**HIP 18217** Ref: 95.684 86.017  
**HIP 18235** Ref: 95.445 94.280  
**HIP 18246** Ref: 95.170 95.182 95.611 95.612 95.635 95.683 94.055 94.314 94.357 94.367 94.367  
**HIP 18255** Ref: 95.684  
**HIP 18260** Ref: 95.482 94.315 93.146 91.190 88.108 85.084 84.087 81.076 81.103 71.018 64.009 62.001 61.005 40.003 22.006  
**HIP 18265** Ref: 95.347 94.191 90.024 83.020  
 Comments: Possible period  $p = 0.06892d$ . No confirmation of period from Ref 94.191.  
**HIP 18280** Ref: 95.445  
**HIP 18291** Comments: Possible period  $p = 470d$ .  
**HIP 18322** Ref: 91.042  
**HIP 18327** Ref: 91.042  
**HIP 18336** Ref: 95.692 88.020 82.043 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 18339** Ref: 95.094 95.255 95.299 95.320 95.321 95.327 95.445 95.684 94.202 92.125 91.053 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 18350** Ref: 95.098 95.158 95.228 95.251 95.612 95.633 95.681 95.699 95.743 94.188 94.357 94.367 94.451 93.046 92.162 92.198 88.075 86.035 86.116 85.165 80.019 79.010 30.013 22.006 7.001  
**HIP 18353** Ref: 94.367  
**HIP 18366** Ref: 94.406  
**HIP 18370** Ref: 95.098 95.388 94.357  
**HIP 18396** Ref: 95.515 95.574  
**HIP 18427** Ref: 95.445  
**HIP 18438** Ref: 95.684  
**HIP 18445** Ref: 95.701  
**HIP 18453** Ref: 94.209  
**HIP 18455** Ref: 95.347 95.445 95.684 94.191 90.024 84.161 83.020 74.026  
 Comments: Possible period  $p = 0.1560d$  or  $p = 0.14364d$ . Ref 94.191: complicated.  
**HIP 18466** Ref: 95.445  
**HIP 18481** Ref: 95.684  
**HIP 18485** Ref: 85.056 85.074 84.043 81.059 80.067  
 Comments: Could also be ELL at double the period (see Ref 85.074).  
**HIP 18488** Ref: 93.043  
**HIP 18492** Ref: 94.202  
**HIP 18497** Comments: Possibly EA type.  
**HIP 18505** Ref: 84.033  
**HIP 18512** Ref: 95.445  
**HIP 18529** Ref: 95.701  
**HIP 18532** Ref: 95.344 94.314 94.357 87.095 84.125  
**HIP 18543** Ref: 95.419 94.204  
**HIP 18547** Ref: 95.347 95.684 94.191 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 18548** Ref: 90.149  
**HIP 18592** Ref: 95.445 95.701  
**HIP 18597** Ref: 94.204  
**HIP 18606** Ref: 95.445  
**HIP 18614** Ref: 95.047 95.388 95.463 95.479 95.535 95.569 95.571 95.611 95.618 95.673 95.683 94.121 94.260 94.357 94.367  
**HIP 18656** Ref: 95.701  
**HIP 18657** Ref: 95.684  
**HIP 18658** Ref: 95.350 95.445 93.075 91.042  
**HIP 18662** Ref: 95.157 95.276 93.033 93.233 91.096 90.091 90.133 85.076 80.028  
 Comments: Data from Hipparcos and literature give  $p = 1.743574d$  (2415 cycles).  
**HIP 18671** Ref: 95.701  
**HIP 18673** Ref: 95.684 94.202 85.026 84.043 81.036  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 18691** Comments: Possible period  $p = 6.606d$ .  
**HIP 18723** Ref: 95.684  
**HIP 18724** Ref: 82.052 78.022 24.004 22.006 7.001  
**HIP 18731** Ref: 95.701  
**HIP 18735** Ref: 95.684 91.042

- HIP 18742** Ref: 95.445 95.697 94.280  
**HIP 18744** Ref: 94.204  
**HIP 18750** Ref: 95.701  
**HIP 18756** Ref: 95.701  
**HIP 18774** Ref: 94.407  
**HIP 18782** Ref: 93.092  
**HIP 18802** Ref: 95.445 94.056 93.050  
**HIP 18805** Ref: 95.575  
**HIP 18824** Ref: 95.445  
**HIP 18859** Ref: 95.064  
**HIP 18865** Ref: 95.017  
**HIP 18878** Ref: 95.701  
**HIP 18907** Ref: 95.280 95.684  
**HIP 18912** Ref: 94.202 93.238 84.043  
 Comments: Ref 93.238: This star is almost certainly V380 Per, erroneously identified as HD 25411 in Hipparcos Input Catalogue. Period from Ref 84.043 confirmed. Other notes: G.  
**HIP 18915** Ref: 95.193 95.259 95.383 95.445 94.188 94.222 94.256 94.407  
**HIP 18926** Ref: 95.704 94.423  
**HIP 18928** Ref: 92.011  
**HIP 18929** Ref: 95.701  
**HIP 18931** Ref: 95.332 92.011  
 Comments: Possible period  $p = 60$ d.  
**HIP 18942** Ref: 95.445  
**HIP 18946** Ref: 91.042  
**HIP 18952** Ref: 95.701  
**HIP 18963** Ref: 93.238  
 Comments: Ref 93.238: HD 25411 erroneously identified as V380 Per in Hipparcos Input Catalogue. V380 Per is HD 25354 = HIC 18912. Other notes: G.  
**HIP 18969** Ref: 95.701  
**HIP 18972** Ref: 95.075 94.086 94.538 93.016 93.131 93.278 90.127 80.036 66.021 65.005 41.001 30.013 26.003 24.004 22.002 22.006 7.001  
**HIP 18975** Ref: 95.445 93.097  
**HIP 18993** Ref: 95.432 95.445 93.015 93.050  
**HIP 18995** Ref: 95.445 95.697 94.280 93.130  
**HIP 18996** Comments: Possible period  $p = 3.77358$ d.  
**HIP 19004** Ref: 95.581 94.051 94.167 22.006 7.001  
**HIP 19006** Ref: 94.206  
**HIP 19009** Ref: 94.206 93.015  
**HIP 19018** Ref: 95.523 95.684 95.690  
**HIP 19023** Ref: 94.174  
**HIP 19038** Ref: 95.062  
**HIP 19045** Ref: 95.701  
**HIP 19057** Ref: 95.580 92.110 92.124 85.084 84.087 80.068 71.018 64.009 61.005 51.001 40.003 30.013 28.003 22.006  
**HIP 19068** Ref: 85.174  
**HIP 19075** Ref: 94.248  
**HIP 19076** Ref: 95.097 95.124 94.248  
**HIP 19084** Ref: 95.343  
**HIP 19086** Ref: 95.701  
**HIP 19095** Ref: 95.445 95.684 93.015  
**HIP 19105** Comments: Period possibly spurious.  
**HIP 19115** Ref: 95.509 94.418  
 Comments: Amplitude of variations smaller than expected.  
**HIP 19116** Ref: 94.196 92.011  
**HIP 19121** Ref: 95.445 95.684  
**HIP 19137** Ref: 93.095  
**HIP 19139** Ref: 95.554 95.590 94.232  
**HIP 19148** Ref: 94.407 91.042  
**HIP 19152** Ref: 95.343  
**HIP 19165** Ref: 95.445  
**HIP 19167** Ref: 95.146  
**HIP 19171** Ref: 95.684 94.065 94.202 93.088 90.082 84.043 83.061 74.012 73.015  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 19177** Ref: 95.684 93.003  
**HIP 19178** Ref: 88.136 85.074  
 Comments: Period from Ref 88.136 confirmed. Described as non-radial pulsator.  
**HIP 19201** Ref: 94.034 93.033 93.233 91.096 90.133 87.061 87.082 87.157 85.124 84.098 38.003  
**HIP 19231** Ref: 95.332 92.011  
**HIP 19233** Ref: 95.399 95.445 94.056 94.084 93.050  
**HIP 19238** Ref: 92.011  
 Comments: Possible alternative period  $p = 12.6$ d (very uncertain).  
**HIP 19242** Ref: 95.445  
**HIP 19248** Ref: 93.073 93.118 92.066  
 Comments: Period dubious.  
**HIP 19255** Ref: 94.257 89.060 85.193 84.140 84.148  
**HIP 19261** Ref: 95.350 95.658 91.042  
**HIP 19270** Ref: 94.072 80.017 80.060  
 Comments: Period possibly not recognised due to disturbance from HIP 19272. Confusion about HD identification. Ref 80.060 identifies SZ Cam with HD 25638, the Hipparcos Input Catalogue with HD 25639. There are indications that HIP 19272 = HD 25638 folds better with the period given in Ref 94.072.  
**HIP 19296** Ref: 30.012 22.006  
 Comments: Possible period  $p = 41.25$ d.  
**HIP 19331** Ref: 95.445  
**HIP 19332** Ref: 30.012 22.006  
**HIP 19335** Ref: 95.064 95.124 95.268 95.671 94.007  
**HIP 19340** Ref: 94.535 82.020 75.006 74.021  
 Comments: Ref 94.535: Possible 26d period pulsation.  
**HIP 19343** Ref: 95.063 95.574 94.403 94.478 94.544  
**HIP 19353** Ref: 95.701  
**HIP 19378** Ref: 95.383 95.433 95.445 95.691 95.697 94.188 94.280 93.130  
**HIP 19383** Ref: 95.445  
**HIP 19391** Comments: Period possibly spurious.  
**HIP 19424** Ref: 94.167 94.196 93.192  
**HIP 19431** Ref: 95.268 95.343 95.430 95.486 95.694 94.125 94.134 94.265 94.419 93.073 93.118 93.211 92.065 92.111 92.197 90.058 89.046 88.081 87.034 87.035 85.193 84.140  
 Comments: No confirmation of period from Ref 93.118.  
**HIP 19434** Ref: 94.406  
**HIP 19461** Ref: 93.015  
**HIP 19480** Ref: 94.406  
**HIP 19483** Ref: 95.445 93.211  
**HIP 19504** Ref: 95.350 95.658 93.075 91.042  
**HIP 19506** Ref: 94.423 93.211 91.102  
**HIP 19509** Ref: 95.445  
**HIP 19513** Ref: 95.347 95.403 94.128 94.191 94.286 93.017 92.046 90.024 87.166 82.063 76.029 73.002  
 Comments: Period  $p = 0.14365$ d also possible, and closer to literature value.  
**HIP 19515** Ref: 95.684  
**HIP 19517** Ref: 30.012 22.006  
 Comments: Possible period  $p = 80$ d.  
**HIP 19533** Ref: 92.011  
 Comments: Period possibly spurious.  
**HIP 19543** Ref: 95.701  
**HIP 19554** Ref: 95.350 95.445 95.658 94.407 91.042  
**HIP 19567** Ref: 89.031 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 19569** Ref: 95.445  
**HIP 19571** Ref: 95.684  
**HIP 19572** Ref: 91.042  
**HIP 19587** Ref: 95.347 95.385 94.191 90.024 83.020 74.026  
 Comments: Possible period  $p = 0.0940$ d.  
**HIP 19590** Ref: 94.406 93.211  
**HIP 19591** Ref: 94.248 93.118  
**HIP 19610** Ref: 95.359 94.069 94.077 94.323 86.020 82.028 58.002  
**HIP 19641** Ref: 95.017

- HIP 19647** Comments: Variations at various time scales and amplitudes. Most remarkable feature is an apparent double eclipse around JD 2 448 269 to 2 448 270.
- HIP 19672** Ref: 84.043
- HIP 19694** Ref: 92.011  
Comments: Possible period  $p = 14.6d$ .
- HIP 19700** Comments: Possible period  $p = 140d$ .
- HIP 19701** Ref: 95.445 94.280
- HIP 19714** Comments: Possible period  $p = 21.94d$ .
- HIP 19717** Ref: 94.423 93.211 91.102 83.015  
Comments: Possible period  $p = 535d$ .
- HIP 19718** Ref: 95.684
- HIP 19719** Ref: 95.658 94.407
- HIP 19720** Ref: 95.047 94.049
- HIP 19722** Ref: 92.011
- HIP 19726** Ref: 95.701
- HIP 19740** Ref: 95.419
- HIP 19759** Ref: 95.701
- HIP 19762** Ref: 95.006 95.139 95.198 95.333 95.357 95.358 95.408 95.508 95.579 95.605 95.637 95.655 94.086 94.250 94.329 94.359 93.016
- HIP 19773** Ref: 95.445
- HIP 19780** Ref: 94.265 93.030
- HIP 19781** Ref: 95.445 94.407 91.042
- HIP 19786** Ref: 95.445 91.042
- HIP 19788** Ref: 95.445
- HIP 19789** Ref: 95.350 94.248 91.042
- HIP 19792** Ref: 94.249
- HIP 19793** Ref: 94.407 91.042
- HIP 19796** Ref: 95.350 94.407 93.075 91.042
- HIP 19797** Ref: 95.122 95.193 95.235 94.043 94.188
- HIP 19799** Ref: 94.278
- HIP 19803** Ref: 94.249
- HIP 19804** Ref: 94.423 93.211 91.102
- HIP 19810** Ref: 94.406
- HIP 19811** Ref: 95.419 93.043
- HIP 19812** Ref: 95.419
- HIP 19814** Ref: 95.445
- HIP 19823** Ref: 95.684
- HIP 19826** Ref: 92.011  
Comments: Possible periods  $p = 70.4d$  and  $p = 14.4d$ .
- HIP 19849** Ref: 95.193 95.214 95.383 95.475 95.510 95.597 95.644 95.666 95.666 95.671 95.698 94.188 94.258 94.265 94.407 94.410
- HIP 19853** Ref: 93.093 93.095
- HIP 19855** Ref: 95.124 95.242 95.343 95.445 95.671 92.111 91.054 84.108
- HIP 19859** Ref: 95.242 95.445 95.671 93.015 89.060
- HIP 19870** Ref: 91.042
- HIP 19877** Ref: 95.350 95.445 93.075 91.042
- HIP 19884** Ref: 95.445
- HIP 19893** Ref: 95.732 95.739 94.517 94.525 90.132  
Comments: Period possibly double.
- HIP 19917** Ref: 85.042 84.043
- HIP 19921** Ref: 95.701
- HIP 19931** Ref: 95.509 94.418 30.012 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 19934** Ref: 94.407
- HIP 19949** Ref: 95.684
- HIP 19968** Ref: 84.033
- HIP 19978** Ref: 77.040 71.018 64.009 61.005 60.002 22.006
- HIP 19990** Ref: 95.684
- HIP 19992** Comments: Possible alternative period  $p = 107.9d$ .
- HIP 19993** Ref: 95.297 95.378 95.379 95.697 95.726 94.123 94.236 94.409 90.052 78.048 69.011 66.008
- HIP 20004** Comments: Period possibly double.
- HIP 20019** Ref: 95.534 93.118 91.042 87.042
- HIP 20025** Ref: 95.697
- HIP 20033** Ref: 94.202
- HIP 20042** Ref: 85.045
- HIP 20045** Ref: 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 20047** Ref: 94.249
- HIP 20056** Ref: 93.118 91.042
- HIP 20070** Ref: 95.684 85.074  
Comments: Period from Ref 85.074 confirmed.
- HIP 20082** Ref: 91.042
- HIP 20087** Ref: 95.350 95.534 95.684 94.206 94.265 93.066 93.097 91.042
- HIP 20089** Ref: 95.684
- HIP 20091** Ref: 94.249
- HIP 20097** Ref: 95.139 95.198 95.354 95.357 95.486 95.508 95.579 95.605 95.637 94.086 94.107 94.108 94.185 94.229 94.250 94.365 94.473 92.223 89.041  
Comments: Probably half the period ( $p = 1.872095d$  according to Ref 95.486).
- HIP 20106** Ref: 95.684
- HIP 20109** Ref: 95.445 95.701
- HIP 20115** Ref: 95.658
- HIP 20117** Ref: 95.701
- HIP 20130** Ref: 94.407 91.042
- HIP 20146** Ref: 91.042
- HIP 20153** Ref: 95.701
- HIP 20155** Ref: 85.174
- HIP 20156** Ref: 95.684
- HIP 20160** Ref: 95.072 95.097 95.139 95.161 95.198 95.443 95.470 95.508 95.565 95.579 95.605 95.637 94.082 94.086 94.229 94.237 94.250 94.365 94.411 90.030
- HIP 20170** Ref: 94.249
- HIP 20171** Ref: 95.684 94.028 93.048 93.062 93.104 91.036 88.076 84.043
- HIP 20186** Ref: 95.339 95.684 94.265 84.043 82.031  
Comments: Period from Ref 84.043 confirmed.
- HIP 20202** Ref: 91.190 85.084 84.087 77.040 71.018 64.009 61.005 60.002
- HIP 20205** Ref: 95.390 95.419 95.534 95.549 95.698 94.042 94.407 93.015 93.028 93.029 91.042 85.001
- HIP 20209** Ref: 94.249
- HIP 20215** Ref: 94.257 91.042
- HIP 20219** Ref: 95.208 95.347 95.350 95.445 95.684 94.191 93.066 93.097 91.042 90.024 84.177 83.020 71.014
- HIP 20234** Ref: 93.126 83.021  
Comments: No confirmation of period from Ref 83.021.
- HIP 20235** Comments: Possible period  $p = 3.2874d$ .
- HIP 20237** Ref: 94.407 91.042
- HIP 20241** Ref: 95.062
- HIP 20243** Ref: 92.011  
Comments: Possible period  $p = 31.74d$ .
- HIP 20245** Ref: 95.412 95.414 93.092 89.097 84.092 22.006
- HIP 20250** Ref: 94.249
- HIP 20252** Ref: 95.390 93.015
- HIP 20255** Ref: 95.445 93.097 91.042
- HIP 20258** Ref: 94.249
- HIP 20261** Ref: 95.347 95.658 95.684 94.191 94.286 93.066 93.097 91.042 90.024 84.177 83.020 71.014  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 20262** Ref: 94.249
- HIP 20263** Ref: 95.445 93.073 85.181 85.193 84.140
- HIP 20264** Ref: 95.684
- HIP 20266** Ref: 95.385 94.180
- HIP 20268** Ref: 95.343 95.445 95.558
- HIP 20269** Ref: 92.011
- HIP 20271** Ref: 91.102 89.133 86.042 85.147
- HIP 20281** Ref: 95.343 95.684
- HIP 20283** Ref: 94.406
- HIP 20284** Ref: 95.187 95.445 95.658 91.042
- HIP 20297** Ref: 95.445 95.684
- HIP 20347** Ref: 95.445
- HIP 20349** Ref: 94.407 91.042
- HIP 20350** Ref: 95.338 95.350 95.658 94.407 91.042

- HIP 20354** Ref: 95.107 95.633 94.340 94.341 94.367 84.077  
Comments: Possible secondary period  $p = 1.31916d$ .
- HIP 20357** Ref: 95.445 95.658 94.407 93.075 91.042
- HIP 20360** Ref: 93.211 91.102
- HIP 20369** Ref: 95.105
- HIP 20380** Ref: 95.684
- HIP 20387** Ref: 95.072 95.139 95.198 95.234 95.381 95.408 95.425 95.443 95.470 95.508 95.517 95.565 95.579 95.605 95.637 95.655 94.086 94.229 94.250 94.365 94.411 93.083 93.121 93.139 90.066 83.067 22.006
- HIP 20388** Ref: 95.139 95.198 95.486 95.565 95.579 95.605 95.655 94.016 94.086 94.250 94.365 94.473 93.211
- HIP 20390** Ref: 95.097 95.105 95.139 95.169 95.198 95.219 95.234 95.357 95.408 95.443 95.470 95.508 95.517 95.565 95.579 95.593 95.605 95.637 95.655 94.080 94.086 94.229 94.250 94.272 94.316 94.343 94.363 94.405 93.016 93.139 88.145 83.067 30.012 22.006 7.001  
Comments: Possible period  $p = 12.04d$ .
- HIP 20400** Ref: 95.347 95.684 94.191 94.253 94.286 93.003 93.066 93.097 91.042 90.024 84.177  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 20415** Ref: 91.042
- HIP 20419** Ref: 91.042
- HIP 20429** Ref: 30.013 22.006  
Comments: Possible confirmation of period  $p = 92d$ .
- HIP 20430** Ref: 95.642 94.229 94.249
- HIP 20440** Ref: 94.257 94.358 93.118 92.111 91.042
- HIP 20441** Ref: 91.042
- HIP 20446** Ref: 95.445
- HIP 20454** Ref: 95.445 95.697 94.280
- HIP 20455** Ref: 95.062 95.390 95.419 95.534 95.698 94.407 93.015 93.092 91.042 85.001
- HIP 20456** Ref: 95.684
- HIP 20467** Ref: 95.445
- HIP 20480** Ref: 91.042
- HIP 20482** Ref: 91.042
- HIP 20484** Ref: 95.684 94.253 93.066 93.097 91.042 86.103
- HIP 20485** Ref: 91.042
- HIP 20491** Ref: 95.350 94.249 93.075 91.042
- HIP 20492** Ref: 95.445 94.358 91.042
- HIP 20506** Ref: 94.196 92.011
- HIP 20507** Ref: 95.684
- HIP 20512** Ref: 93.211
- HIP 20522** Ref: 95.684
- HIP 20531** Ref: 94.249
- HIP 20533** Ref: 95.635 94.249
- HIP 20535** Ref: 94.204
- HIP 20542** Ref: 95.379 95.684 93.066 93.097 91.042
- HIP 20543** Ref: 95.701
- HIP 20553** Ref: 95.466 94.206 94.358 91.042
- HIP 20554** Ref: 95.704 94.423
- HIP 20555** Comments: Possible periods  $p = 5.187d$  and  $p = 9.495d$ . Other notes: G.
- HIP 20557** Ref: 95.350 94.265 91.042
- HIP 20567** Ref: 95.466 91.042
- HIP 20577** Ref: 95.445 95.466 91.042
- HIP 20587** Ref: 94.176 94.177 94.409 91.190 88.028 86.032 85.084 84.087 83.016 82.035 77.040 71.018 64.009 58.003 40.003 28.003 22.006 22.006
- HIP 20600** Ref: 94.249
- HIP 20601** Ref: 94.407 91.042
- HIP 20613** Ref: 95.445
- HIP 20614** Ref: 95.350 95.684 93.097 91.042
- HIP 20630** Ref: 95.445
- HIP 20631** Ref: 94.249
- HIP 20635** Ref: 95.684 94.249 94.286 93.097 91.042 71.014
- HIP 20641** Ref: 95.684 94.249 93.097 91.042 71.014
- HIP 20648** Ref: 95.684 93.066 93.097 93.104 91.042 89.143
- HIP 20650** Ref: 95.701
- HIP 20661** Ref: 95.350 95.445 95.658 94.248 94.257 91.042
- HIP 20662** Ref: 95.701
- HIP 20665** Comments: Possibly RRc at half the period.
- HIP 20667** Ref: 95.445
- HIP 20670** Comments: Possible period  $p = 25.3d$ .
- HIP 20686** Ref: 91.042
- HIP 20693** Ref: 93.075 91.042
- HIP 20711** Ref: 95.347 95.684 94.191 94.249 94.286 93.097 91.042 90.024 83.047  
Comments: Possible periods  $p = 0.35035d$  and  $p = 0.48584d$ .
- HIP 20712** Ref: 94.265 91.042
- HIP 20713** Ref: 95.347 95.534 95.658 95.684 95.714 94.128 94.191 94.286 94.358 91.042 90.024 84.177  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 20715** Ref: 93.066  
Comments: Possible alternative or secondary period  $p = 1.0796d$ .
- HIP 20719** Ref: 95.445 95.466 94.407 91.042
- HIP 20725** Ref: 95.445
- HIP 20732** Ref: 95.062 95.419 93.015
- HIP 20735** Ref: 95.704 94.423
- HIP 20741** Ref: 95.285 95.445 95.466 94.407 94.466 91.042
- HIP 20751** Ref: 91.042
- HIP 20765** Ref: 95.684
- HIP 20772** Ref: 95.684
- HIP 20777** Ref: 95.002 95.097 95.198 95.357 95.443 95.470 95.508 95.517 95.565 95.579 95.605 95.617 95.637 94.086 94.218 94.229 94.237 94.250 94.411 93.053 93.083 84.046
- HIP 20780** Ref: 94.249
- HIP 20781** Ref: 95.445
- HIP 20789** Ref: 94.249
- HIP 20795** Ref: 95.704 94.423
- HIP 20799** Ref: 95.701
- HIP 20812** Ref: 94.249
- HIP 20815** Ref: 95.445 94.248 94.358 93.075 91.042
- HIP 20826** Ref: 91.042
- HIP 20834** Ref: 95.139
- HIP 20842** Ref: 95.684 93.066 93.097 91.042
- HIP 20848** Ref: 95.445
- HIP 20850** Ref: 91.042
- HIP 20859** Ref: 94.249
- HIP 20860** Comments: Possibly shell star.
- HIP 20864** Ref: 94.249
- HIP 20873** Ref: 95.350 95.445 95.684 93.015 93.066 93.097 91.042
- HIP 20877** Ref: 95.062
- HIP 20885** Ref: 95.062 95.419 95.534 95.698 94.042 94.206 94.248 94.407 93.015 91.042 85.001
- HIP 20889** Ref: 95.419 95.534 95.698 94.042 91.042 85.001
- HIP 20890** Ref: 93.118 91.042
- HIP 20894** Ref: 95.073 95.208 95.347 95.404 95.563 95.684 94.191 93.066 93.097 92.023 91.042 90.024 89.014 89.151 87.016 84.177 83.020  
Comments: Possible period  $p = 0.0768d$ .
- HIP 20899** Ref: 95.466 94.407 91.042
- HIP 20901** Ref: 95.684 93.097 91.042
- HIP 20916** Ref: 94.206 91.042
- HIP 20917** Ref: 95.475 94.265
- HIP 20922** Ref: 95.604 94.198 94.403
- HIP 20933** Ref: 94.249
- HIP 20934** Ref: 95.445
- HIP 20935** Ref: 95.350 93.075 91.042
- HIP 20943** Comments: Data from Hipparcos and literature give  $p = 0.6341981d$  (6220 cycles).
- HIP 20948** Ref: 95.466 94.249 93.075 91.042
- HIP 20949** Ref: 91.042

- HIP 20951** Ref: 95.466 91.042  
**HIP 20961** Comments: Possible period  $p = 24.8d$ .  
**HIP 20978** Ref: 91.042  
**HIP 20979** Ref: 94.191 93.260  
 Comments: Possible period  $p = 0.06961d$ .  
**HIP 20984** Ref: 95.445  
**HIP 20990** Ref: 95.032 95.097 95.139 95.198 95.402  
 95.508 95.565 95.579 95.579 95.605 95.637 95.655  
 94.086 94.250 94.359 93.016 93.139  
**HIP 20995** Ref: 95.350 95.445 95.684 93.097 91.042  
**HIP 20998** Ref: 95.445  
**HIP 21008** Ref: 95.383 94.407 91.042  
**HIP 21013** Ref: 94.249  
**HIP 21029** Ref: 95.684 93.066 93.097 91.042 71.014  
**HIP 21036** Ref: 95.350 95.445 95.543 93.097 91.042  
**HIP 21039** Ref: 95.684 93.003 93.066 93.097 91.042  
**HIP 21042** Ref: 95.445  
**HIP 21046** Ref: 94.196 22.006  
**HIP 21053** Ref: 95.350 93.075 91.042  
**HIP 21059** Ref: 93.005 71.018 62.001 22.006  
**HIP 21063** Comments: DSCCT type variations make  
 luminosity class II unlikely. Period is clearly recognised  
 in data.  
**HIP 21066** Ref: 93.075 91.042  
**HIP 21080** Comments: Possible period  $p = 27.14d$ .  
**HIP 21099** Ref: 94.407 91.042  
**HIP 21106** Ref: 95.701  
**HIP 21110** Ref: 95.445 95.684  
**HIP 21112** Ref: 91.042  
**HIP 21120** Ref: 94.249  
**HIP 21131** Ref: 95.445  
**HIP 21137** Ref: 95.350 95.445 95.684 91.042  
**HIP 21144** Ref: 94.145 94.304 93.092 93.118 92.111  
 85.193 84.140 84.148  
 Comments: Period  $p = 7.16332d$  also a possibility.  
**HIP 21148** Ref: 95.338 94.357 93.126  
 Comments: Possible period  $p = 0.22132d$  (Ref  
 93.126).  
**HIP 21152** Ref: 95.445 95.658 91.042  
**HIP 21174** Ref: 94.249  
**HIP 21192** Ref: 94.045 94.423 91.102 85.037 85.042  
 85.175 84.043 84.105 84.145  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 21200** Ref: 95.701  
**HIP 21203** Ref: 94.280  
**HIP 21213** Comments: Probably EA type variable, but  
 insufficient data.  
**HIP 21218** Ref: 95.232  
**HIP 21246** Ref: 94.249  
**HIP 21247** Ref: 95.684  
**HIP 21252** Ref: 95.692 93.081 89.031 88.020 82.043  
 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 21258** Ref: 93.211 91.102  
**HIP 21267** Ref: 95.350 95.658 91.042  
**HIP 21273** Ref: 95.347 95.684 94.191 94.407 93.066  
 93.097 91.042 90.024 84.177  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191. Other notes: D.  
**HIP 21275** Ref: 94.249  
**HIP 21278** Ref: 93.211 91.102 85.042 84.043 84.145  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 21280** Ref: 91.042  
**HIP 21281** Ref: 95.684 95.701 94.311 85.042 85.045  
 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 21295** Ref: 95.684 93.003  
**HIP 21296** Ref: 94.204  
 Comments: Possible period  $p = 31d$ .  
**HIP 21298** Ref: 95.445  
**HIP 21315** Ref: 95.701  
**HIP 21317** Ref: 95.466 91.042  
**HIP 21323** Ref: 95.684 94.249  
**HIP 21332** Ref: 94.249  
**HIP 21333** Ref: 94.249  
**HIP 21334** Ref: 94.086 92.076 22.006  
**HIP 21341** Ref: 94.249 94.406  
**HIP 21347** Ref: 94.249  
**HIP 21353** Ref: 94.249  
**HIP 21359** Ref: 95.445  
**HIP 21363** Ref: 95.445  
**HIP 21377** Ref: 95.684 93.003  
**HIP 21402** Ref: 95.684 94.206 93.066 93.097  
**HIP 21421** Ref: 95.062 95.353 95.390 95.419 95.468  
 95.484 95.485 95.499 95.508 95.514 95.544 95.599  
 95.624 94.042 94.243 94.264 94.273 94.345 94.378  
 92.169 89.055  
**HIP 21433** Ref: 94.162  
**HIP 21444** Ref: 95.098 95.633 94.019 94.098 94.205  
 94.366 94.423 94.425 91.102 83.088 81.022 81.042  
 75.016  
**HIP 21452** Ref: 95.684  
**HIP 21459** Ref: 95.350 94.249 93.015 91.042  
**HIP 21460** Ref: 95.701  
**HIP 21464** Ref: 94.196  
 Comments: Possible period  $p = 340d$ .  
**HIP 21467** Ref: 35.002 33.002 30.011 25.001 22.006  
**HIP 21474** Ref: 95.350 95.466 93.075 91.042  
**HIP 21475** Ref: 95.534 91.042  
**HIP 21476** Ref: 95.062 95.419 93.015 93.043 93.092  
 90.108  
**HIP 21478** Ref: 94.249  
**HIP 21479** Ref: 95.692 94.196 94.204 82.043 30.013  
 22.006 7.001  
 Comments: Possible period  $p = 338d$ .  
**HIP 21482** Ref: 95.268 95.341 95.534 95.694 94.265  
 94.339 93.118  
 Comments: Possible period of a few days  
 superimposed on long-term variations.  
**HIP 21515** Ref: 93.242  
 Comments: Fainter than expected.  
**HIP 21517** Ref: 95.039 95.411 95.448 94.176 94.177  
 92.070 92.078 92.110 91.190 89.050 88.108 85.017  
 85.084 85.222 84.087 80.054 77.040 71.018 68.012  
 64.009 58.001 51.001 40.003 30.009 22.006  
**HIP 21527** Ref: 95.701  
**HIP 21543** Ref: 95.466 91.042  
**HIP 21547** Ref: 95.684  
**HIP 21553** Ref: 94.407  
**HIP 21556** Ref: 95.445  
**HIP 21575** Ref: 87.121  
**HIP 21588** Ref: 95.197 95.445 95.684 94.407 93.097  
 91.042  
**HIP 21589** Ref: 95.379 95.684 94.407 93.066 93.097  
 91.042  
**HIP 21594** Ref: 85.090  
**HIP 21599** Ref: 95.701  
**HIP 21600** Ref: 89.031 88.020 74.036 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 21604** Ref: 95.075 95.197 88.083 86.141 81.024  
**HIP 21605** Ref: 95.575  
**HIP 21609** Ref: 95.445 94.138  
**HIP 21621** Comments: Period not certain.  
**HIP 21622** Ref: 95.445  
**HIP 21626** Comments: Possible GCAS type.  
**HIP 21633** Comments: Period doubtful.  
**HIP 21637** Ref: 91.042  
**HIP 21644** Ref: 95.684  
**HIP 21645** Ref: 95.701  
**HIP 21648** Ref: 95.383 95.433 95.445 95.697 94.280  
 93.130  
**HIP 21654** Ref: 91.042  
**HIP 21666** Ref: 95.445  
**HIP 21670** Ref: 95.684 93.066 93.097 91.042  
**HIP 21673** Ref: 95.684  
**HIP 21677** Ref: 94.249  
**HIP 21683** Ref: 95.684 93.097 91.042  
**HIP 21688** Ref: 93.095  
 Comments: Possible period  $p = 8.23d$ .  
**HIP 21689** Ref: 95.684 94.249

- HIP 21707** Ref: 94.249  
**HIP 21723** Ref: 91.042  
**HIP 21727** Ref: 95.062 93.015 93.092 93.118 89.060 85.193 84.140  
**HIP 21730** Ref: 95.684  
**HIP 21741** Ref: 91.042  
**HIP 21743** Ref: 95.445  
**HIP 21749** Ref: 94.406  
**HIP 21756** Ref: 95.445 94.084  
**HIP 21762** Ref: 91.042  
**HIP 21763** Ref: 94.196 94.204 92.011  
 Comments: Possible period  $p = 32d$ .  
**HIP 21766** Ref: 95.692 89.031 88.020 82.043 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 21768** Ref: 94.211 89.115  
**HIP 21787** Ref: 95.701  
**HIP 21788** Ref: 91.042  
**HIP 21810** Comments: Possible SR period  $p = 5.540d$ .  
 Could even be E type with double the period.  
**HIP 21813** Ref: 95.619 94.249  
**HIP 21814** Ref: 95.445 95.697 94.138 94.280  
**HIP 21818** Ref: 95.389 95.392 94.248 94.265  
 Comments: No confirmation of period from Ref 95.389. Possible period  $p = 9.40d$ .  
**HIP 21819** Ref: 95.684 94.249  
**HIP 21823** Ref: 95.684 94.248  
**HIP 21825** Comments: Possible period  $p = 66d$ .  
**HIP 21847** Ref: 95.671 93.050  
**HIP 21874** Ref: 95.701  
**HIP 21881** Ref: 94.104 94.248  
**HIP 21882** Ref: 94.406  
**HIP 21894** Comments: Possible period  $p = 0.1451d$ .  
**HIP 21928** Ref: 95.684 94.209  
**HIP 21932** Ref: 94.410  
**HIP 21949** Ref: 95.701  
**HIP 21966** Ref: 95.684  
**HIP 21986** Ref: 94.202 93.015  
**HIP 21989** Ref: 79.020  
**HIP 21998** Ref: 95.445  
**HIP 22000** Ref: 95.268 95.430 94.047 93.073 93.118 92.050 92.111 89.060 88.034  
**HIP 22003** Ref: 95.684  
**HIP 22024** Ref: 95.325 94.198 94.403 86.087  
**HIP 22028** Ref: 95.445 95.684  
**HIP 22034** Ref: 95.063  
**HIP 22040** Ref: 95.684  
**HIP 22044** Ref: 95.684 94.407 93.097 91.042  
**HIP 22062** Ref: 95.445  
**HIP 22096** Ref: 94.249  
**HIP 22109** Ref: 95.515 94.423 91.102  
**HIP 22122** Ref: 95.445  
**HIP 22127** Ref: 88.020 86.141 85.222 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 22155** Ref: 95.701  
**HIP 22157** Ref: 95.684 94.407 93.066 93.097 91.042  
**HIP 22170** Ref: 95.692 82.043 30.012 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 22172** Ref: 94.218 94.249  
**HIP 22176** Ref: 93.092  
**HIP 22189** Ref: 95.684  
**HIP 22192** Ref: 95.060 95.684  
**HIP 22203** Ref: 91.042  
**HIP 22221** Ref: 95.350 91.042  
**HIP 22224** Ref: 91.042  
**HIP 22229** Comments: Period is uncertain.  
**HIP 22234** Ref: 95.697  
 Comments: Period improved over published value.  
**HIP 22247** Ref: 91.043 22.006  
 Comments: If variable, amplitude smaller than predicted. No signs of periodicity.  
**HIP 22256** Comments: Ephemeris based on AAVSO data.  
**HIP 22260** Ref: 95.347 94.191 90.024  
**HIP 22263** Ref: 95.064 95.124 95.277 95.386 95.445 95.658 95.671 94.007 94.084 94.256 94.259  
**HIP 22265** Ref: 91.042  
**HIP 22272** Comments: Probably EB type, but bad light curve coverage. Period as given or half.  
**HIP 22275** Ref: 95.580 94.315 93.270 92.110 91.190 89.043 89.044 88.108 85.084 84.087 83.082 81.093 80.054 80.068 71.018 64.009 61.005 60.002  
**HIP 22280** Ref: 95.445  
**HIP 22287** Ref: 95.684  
**HIP 22296** Ref: 95.098  
**HIP 22300** Ref: 95.684  
**HIP 22325** Ref: 95.445  
**HIP 22334** Ref: 94.249  
**HIP 22336** Ref: 95.399 95.432 95.445 94.056 94.188 94.256 94.259 93.050  
**HIP 22340** Ref: 84.043 81.036  
**HIP 22349** Ref: 94.407  
**HIP 22350** Ref: 91.042  
**HIP 22365** Ref: 94.120 93.268 87.152  
 Comments: Period from Hipparcos Input Catalogue not found.  
**HIP 22370** Ref: 87.084  
**HIP 22379** Comments: Possible period  $p = 23.8d$ .  
**HIP 22380** Ref: 91.042  
**HIP 22383** Comments: Possible period  $p = 28.6d$ .  
**HIP 22393** Ref: 95.017  
**HIP 22394** Ref: 93.118 91.042  
 Comments: Possible periods  $p = 3.2216d$  and  $p = 7.740d$ , but both very uncertain and small amplitudes.  
**HIP 22402** Ref: 94.202 84.043 78.038 77.007  
 Comments: Published period (Ref 78.038) does not fit data.  
**HIP 22403** Ref: 95.373  
**HIP 22407** Ref: 95.684 93.003  
**HIP 22422** Ref: 91.042  
**HIP 22439** Ref: 95.445 94.056 93.050 91.102  
**HIP 22442** Ref: 95.297 95.335 95.378 95.379 95.401 95.697 94.123 94.236 94.282 94.286 94.409 93.111 92.150 90.052 82.054 66.008 22.006  
**HIP 22445** Ref: 94.315 92.060 91.190 90.152 88.108 85.084 84.087 84.201 81.076 81.103 71.018 64.009 58.003 40.003 22.006  
**HIP 22449** Ref: 95.060 95.137 95.379 94.407 94.410  
**HIP 22466** Ref: 95.378 95.697 94.236 93.111 93.128 77.031 22.006  
**HIP 22488** Ref: 95.445  
**HIP 22496** Ref: 91.042  
**HIP 22498** Comments: Possibly EA type, but insufficient data to determine period. Other notes: G.  
**HIP 22505** Ref: 94.206 91.042  
**HIP 22509** Ref: 95.056 95.684  
**HIP 22510** Ref: 95.738 91.114  
 Comments: Long-term variability, no periodicity detected.  
**HIP 22524** Ref: 93.075 91.042  
**HIP 22527** Ref: 94.249  
**HIP 22531** Ref: 95.684 93.015  
**HIP 22532** Ref: 95.445  
**HIP 22535** Comments: Possible period  $p = 333d$ .  
**HIP 22549** Ref: 94.055 83.021  
 Comments: No confirmation of period from Ref 83.021.  
**HIP 22550** Ref: 95.350 93.030 91.042  
**HIP 22552** Ref: 95.361 95.509 95.567 94.418 30.013 22.006 7.001  
 Comments: Period  $p = 200d$  superimposed on longer time scale variations.  
**HIP 22557** Ref: 94.249  
**HIP 22565** Ref: 95.347 95.684 94.191 94.286 93.097 91.042 90.024 84.177 71.014  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 22566** Ref: 91.042  
**HIP 22573** Ref: 95.684

- HIP 22578** Ref: 95.509 94.418 22.006 7.001  
Comments: Possible period  $p = 166.5d$ .
- HIP 22584** Ref: 94.249
- HIP 22596** Ref: 95.383 95.432 94.256 94.407 93.050
- HIP 22607** Ref: 95.350 94.257 93.075 91.042
- HIP 22616** Ref: 96.002 94.406
- HIP 22632** Ref: 95.087 95.122 95.697 94.043
- HIP 22650** Ref: 94.289
- HIP 22656** Ref: 91.102
- HIP 22667** Ref: 95.303 95.332 95.419 95.499 93.095  
92.011  
Comments: Shorter time-scale irregular variations also observed.
- HIP 22670** Comments: Long-term irregular variations. Small amount of data.
- HIP 22674** Comments: Possible period  $p = 17.4d$ , but uncertain. Period  $p = 52d$  not recognised.
- HIP 22678** Ref: 95.526 95.558 94.209
- HIP 22684** Ref: 91.042
- HIP 22697** Ref: 93.015
- HIP 22699** Ref: 95.684
- HIP 22701** Ref: 95.684
- HIP 22706** Ref: 94.104
- HIP 22717** Ref: 95.445
- HIP 22720** Ref: 95.684
- HIP 22721** Ref: 94.202
- HIP 22730** Ref: 94.204
- HIP 22736** Ref: 95.701
- HIP 22747** Ref: 94.206 94.249
- HIP 22750** Ref: 95.697 94.236 94.409 69.011 66.008
- HIP 22751** Ref: 91.042
- HIP 22774** Ref: 95.684
- HIP 22782** Ref: 91.042
- HIP 22783** Ref: 95.022 95.296 95.388 95.472 95.554  
95.590 95.604 95.612 95.683 94.357 94.367
- HIP 22794** Ref: 79.023
- HIP 22796** Ref: 95.161 94.418  
Comments: Possibly SR variable.
- HIP 22797** Ref: 94.314 85.074 83.021
- HIP 22824** Ref: 95.445
- HIP 22833** Ref: 96.002 95.684
- HIP 22844** Ref: 95.445
- HIP 22845** Ref: 96.002 95.033 95.150 95.684 93.026
- HIP 22850** Ref: 95.684 94.407 91.042
- HIP 22854** Ref: 95.684
- HIP 22860** Ref: 91.102
- HIP 22863** Comments: Possible period  $p = 1.865d$ .
- HIP 22871** Ref: 95.558
- HIP 22877** Ref: 94.249
- HIP 22897** Ref: 95.445 95.684
- HIP 22903** Ref: 94.104
- HIP 22907** Ref: 94.248
- HIP 22910** Ref: 95.042 95.077 95.149 95.169 95.176  
95.263 95.281 95.310 95.342 95.408 95.485 95.527  
95.565 95.579 95.605 94.004 94.049 94.211 94.212  
94.218 94.250 94.332 94.411 93.019 93.121 92.222  
91.207 87.141 86.067 86.073 83.017 30.012
- HIP 22912** Comments: Possible period  $p = 11.92d$ , but very noisy.
- HIP 22919** Ref: 94.406
- HIP 22923** Ref: 95.684
- HIP 22925** Ref: 95.198 95.408 95.443 95.469 95.517  
95.565 95.579 95.605 95.637 94.086 94.250 93.083  
93.121 84.046 83.067 22.006
- HIP 22936** Ref: 95.684
- HIP 22938** Ref: 94.406
- HIP 22940** Ref: 95.445
- HIP 22943** Comments: Probable misidentification in Hipparcos Input Catalogue.
- HIP 22949** Ref: 95.684
- HIP 22952** Ref: 95.378 95.697 94.236 94.282 94.286  
94.409 93.111 93.128 77.031 23.003 22.006 7.001
- HIP 22955** Ref: 95.523
- HIP 22961** Ref: 94.252 93.118 90.059
- HIP 22979** Ref: 90.087 86.103
- HIP 22989** Ref: 91.102
- HIP 23015** Ref: 95.062 95.398 95.419 95.468 95.698  
94.338 93.029
- HIP 23033** Ref: 93.215  
Comments: Possible period  $p = 2.961d$ .
- HIP 23040** Ref: 95.684 95.750
- HIP 23041** Ref: 95.343 95.445
- HIP 23056** Ref: 91.042
- HIP 23068** Ref: 95.558
- HIP 23069** Ref: 91.042
- HIP 23088** Ref: 95.684
- HIP 23092** Ref: 95.684
- HIP 23105** Ref: 95.343 94.265 93.073 93.118 92.111  
89.060 85.193  
Comments: Period  $p = 6.8d$  not recognised. Long-term drift present.
- HIP 23106** Ref: 95.005 93.073 92.066
- HIP 23123** Ref: 95.419 94.148
- HIP 23143** Ref: 87.141
- HIP 23145** Ref: 95.697 94.280
- HIP 23151** Ref: 95.787 90.099 90.100
- HIP 23165** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 23177** Comments: Possible period  $p = 31.4d$ .
- HIP 23179** Ref: 95.280 95.338 95.684 94.265
- HIP 23196** Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable. Other notes: D.
- HIP 23200** Ref: 95.019 95.067 94.007 94.265 91.034  
89.059  
Comments: Period  $p = 4.56d$  not recognised. No other period detected.
- HIP 23201** Ref: 94.249
- HIP 23203** Ref: 95.057 95.361 95.509 95.581 95.692  
94.039 94.167 94.418 91.102 89.010 88.020 77.027  
30.013 22.006 7.001
- HIP 23210** Ref: 93.146 91.190 81.103 71.018 64.009  
61.005
- HIP 23214** Ref: 93.075 91.042
- HIP 23221** Ref: 95.064 95.134 94.265
- HIP 23225** Ref: 91.102
- HIP 23231** Ref: 95.347 95.684 94.191 90.024 83.020  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 23245** Ref: 93.030 93.073 90.059
- HIP 23266** Ref: 95.445
- HIP 23276** Ref: 95.704 94.423 93.211 91.102
- HIP 23279** Ref: 95.684
- HIP 23286** Ref: 94.406
- HIP 23287** Ref: 95.684
- HIP 23296** Ref: 95.445 95.684
- HIP 23311** Ref: 95.445 95.475 95.510 95.671 94.256  
94.259 94.410
- HIP 23312** Ref: 91.042
- HIP 23344** Ref: 95.087 95.122 95.235 95.445 94.043  
94.270 94.346 94.389
- HIP 23360** Ref: 92.110 90.150 88.108 88.134 85.084  
84.087 81.103 80.054 71.018 64.009 58.003 40.003  
22.006
- HIP 23362** Ref: 94.311
- HIP 23364** Ref: 95.704 94.423 93.211 91.102
- HIP 23395** Ref: 94.249 94.406
- HIP 23397** Ref: 95.445 95.697 94.280
- HIP 23413** Ref: 95.343
- HIP 23416** Ref: 95.478 95.563 95.684 95.765 94.133  
91.041 87.119 86.147 85.028 85.151 85.193 85.194  
85.221 84.139 84.140 84.169 84.170 84.172 80.023  
79.012 72.001 30.013 22.006 7.001
- HIP 23419** Ref: 95.684
- HIP 23428** Ref: 95.629 95.704 94.193 94.423 93.211  
91.045 91.102 82.007 79.023  
Comments: Possible periods  $p = 2.270d$  or  $p = 2.857d$ .
- HIP 23433** Ref: 94.490

- HIP 23436** Comments: Possibly a GCAS star, with shell becoming resolved during the mission.
- HIP 23437** Ref: 95.445 94.084
- HIP 23452** Ref: 95.445 95.475 94.410
- HIP 23453** Ref: 95.081 95.419 94.029 93.043 93.204 92.117 88.097 85.193 85.222 84.140 83.011 81.018 81.091 64.005  
Comments: Photoelectric observations of 1963–64 eclipse in Ref 64.005.
- HIP 23474** Ref: 95.445
- HIP 23491** Comments: Possible period  $p = 3.87d$ .
- HIP 23497** Ref: 95.684 93.066 93.097 91.042
- HIP 23498** Ref: 91.042
- HIP 23511** Ref: 95.143 95.684
- HIP 23520** Ref: 95.509 94.418  
Comments: Possible period  $p = 4.485d$ .
- HIP 23522** Ref: 95.698
- HIP 23551** Ref: 95.515
- HIP 23554** Ref: 95.684
- HIP 23555** Ref: 95.445
- HIP 23574** Ref: 91.042
- HIP 23596** Ref: 95.347 95.445 94.191 92.053 90.024 83.020  
Comments: Confirmation of period from Ref 94.191.
- HIP 23602** Ref: 95.056 95.077 95.281 95.310 95.381 95.605 95.704 94.005 94.049 94.122 94.211 94.212 94.250 94.423 93.211 91.102 83.067 30.012 22.006
- HIP 23607** Ref: 95.684 93.088 85.042 84.043 80.002  
Comments: Alternative period  $p = 2.33100d$ .
- HIP 23611** Ref: 95.684
- HIP 23614** Ref: 95.684
- HIP 23617** Ref: 95.684
- HIP 23636** Ref: 95.692 94.052 93.081 89.031 88.020 82.043 81.016 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 23640** Ref: 85.174
- HIP 23657** Ref: 94.444 94.480 93.222 92.006 75.029 74.007 64.013
- HIP 23661** Ref: 95.704 94.423 93.211 91.102
- HIP 23663** Ref: 95.704 94.423 93.211
- HIP 23680** Ref: 95.309 95.361 95.509 95.581 95.648 95.648 94.039 94.196 94.418 93.004 91.043 30.013 22.006 7.001  
Comments: Period  $p = 212d$  not recognised.
- HIP 23688** Ref: 94.188
- HIP 23693** Ref: 95.427 95.658 95.698 94.265
- HIP 23695** Ref: 95.684
- HIP 23699** Ref: 94.206
- HIP 23701** Ref: 91.042
- HIP 23718** Ref: 95.010 79.018 79.023
- HIP 23724** Ref: 95.684
- HIP 23727** Ref: 95.396 95.412 95.414 87.037 86.052 86.053 84.051 84.052 22.006 7.001
- HIP 23733** Ref: 95.320 95.321 95.327 94.202 91.053 84.043 80.032 73.015
- HIP 23734** Ref: 95.063 94.403 84.033
- HIP 23737** Ref: 95.701
- HIP 23740** Ref: 95.445
- HIP 23743** Ref: 95.062 95.268 95.412 95.694 95.702 94.040 94.145 94.419 93.092 93.118 93.215 92.111 89.060 85.193 84.140 84.170
- HIP 23745** Ref: 95.704 94.423 93.211 91.102
- HIP 23750** Ref: 91.042
- HIP 23755** Ref: 85.042 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 23767** Ref: 95.012 95.022 95.515 94.403
- HIP 23768** Ref: 96.004 94.432
- HIP 23771** Ref: 95.697
- HIP 23776** Ref: 95.343
- HIP 23777** Ref: 95.684
- HIP 23783** Ref: 95.419 95.684 95.732 95.739 95.778 93.265 91.118 90.085
- HIP 23793** Comments: Possibly RRc type with half the period.
- HIP 23794** Ref: 94.001
- HIP 23799** Ref: 95.385
- HIP 23809** Comments: Period could be half.
- HIP 23818** Ref: 94.406
- HIP 23831** Ref: 95.445
- HIP 23833** Ref: 85.042 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 23835** Ref: 95.445 95.698
- HIP 23840** Ref: 94.196 94.204 92.011  
Comments: Possible period  $p = 8.91d$ .
- HIP 23852** Ref: 95.268 95.445
- HIP 23868** Ref: 85.123 85.222  
Comments: Period and type from Ref 85.222 confirmed.
- HIP 23871** Ref: 95.684
- HIP 23873** Ref: 95.443 95.470 95.508 95.517 95.565 95.579 95.605 95.655 94.086 94.237 94.250 94.411 93.121 85.150 84.046 83.029 83.067 30.012 22.006  
Comments: Possible period  $p = 2.535d$ .
- HIP 23875** Ref: 95.563 95.684 94.311
- HIP 23879** Ref: 95.684
- HIP 23883** Ref: 95.063 94.403
- HIP 23884** Ref: 95.373 95.374
- HIP 23900** Ref: 84.033
- HIP 23910** Ref: 95.445
- HIP 23916** Ref: 95.704 94.423 93.211
- HIP 23919** Ref: 95.445
- HIP 23941** Ref: 95.399 95.432 94.056 93.050
- HIP 23947** Comments: Possible period  $p = 29.8d$ .
- HIP 23949** Ref: 94.256
- HIP 23950** Comments: Possible period  $p = 103d$ .
- HIP 23965** Ref: 95.509 94.418 22.006
- HIP 23972** Ref: 95.267 95.494 95.633 95.646 95.704 94.198 94.423 93.211 91.102 91.128 87.020 86.144 84.033 84.066
- HIP 23983** Ref: 95.684 93.003 93.066 93.097 91.042 78.038  
Comments: Ref 78.038 find no variations. Scatter in data approximately 0.02 mag.
- HIP 23995** Ref: 94.406
- HIP 24006** Comments: Possibly EA type.
- HIP 24010** Ref: 95.379 93.015
- HIP 24019** Ref: 95.684 93.003 93.066 93.097 91.042
- HIP 24025** Ref: 94.196 93.087
- HIP 24030** Ref: 94.188
- HIP 24035** Ref: 91.042
- HIP 24037** Ref: 95.445 86.091
- HIP 24041** Ref: 95.445
- HIP 24055** Ref: 95.263 94.167 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 24074** Ref: 95.697 94.280
- HIP 24080** Ref: 95.704 94.423 93.211 91.102  
Comments: Period is uncertain.
- HIP 24085** Ref: 95.343 93.073 93.092 93.118  
Comments: Possible period  $p = 20.26d$ .
- HIP 24105** Ref: 80.068 71.018 64.009 60.002
- HIP 24120** Ref: 95.697 94.271 94.280
- HIP 24126** Ref: 95.588 94.290 93.192 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 24141** Comments: Possibly EA type.
- HIP 24156** Ref: 94.068 86.034 84.121 58.002
- HIP 24162** Ref: 95.432 95.445 95.671 94.056 93.050
- HIP 24169** Ref: 95.783 94.167 94.196 94.204  
Comments: Possible period  $p = 92.6d$ .
- HIP 24186** Ref: 95.445 94.259 94.410
- HIP 24196** Ref: 84.042 84.043  
Comments: Period from Ref 84.042 ( $p = 0.56589d$ ) does not fit. Star probably constant.
- HIP 24201** Ref: 95.359 87.158 33.003 28.004 22.006
- HIP 24205** Ref: 94.406
- HIP 24221** Comments: Possibly E type.
- HIP 24226** Ref: 91.064
- HIP 24244** Ref: 95.642 94.229
- HIP 24250** Ref: 95.343
- HIP 24254** Ref: 95.684 84.043 80.015



- HIP 24264** Ref: 95.445  
**HIP 24281** Ref: 85.084 84.087 81.103 76.021 71.018  
 64.009 61.005 40.003 30.010 22.006  
**HIP 24286** Ref: 93.092  
**HIP 24289** Ref: 94.138  
**HIP 24294** Ref: 95.445  
**HIP 24305** Ref: 95.194 95.684 94.028 93.003 93.048  
 93.062  
**HIP 24309** Comments: Probably EA type.  
**HIP 24313** Ref: 95.684  
**HIP 24316** Ref: 95.445 95.697 86.091  
**HIP 24326** Comments: Possible GCAS type.  
**HIP 24327** Ref: 94.311  
**HIP 24331** Ref: 95.419 93.092  
**HIP 24332** Ref: 94.406  
**HIP 24340** Ref: 95.684 94.209  
**HIP 24347** Ref: 91.012  
**HIP 24348** Ref: 95.684  
**HIP 24349** Ref: 95.684  
**HIP 24383** Ref: 93.073  
**HIP 24390** Comments: Probably EA type.  
**HIP 24394** Ref: 95.445 93.015  
**HIP 24419** Ref: 95.445  
**HIP 24420** Ref: 95.343  
**HIP 24430** Ref: 95.343 93.073 92.066 90.059  
**HIP 24436** Ref: 95.313 95.338 95.523 95.621 85.143  
**HIP 24441** Comments: Possible period  $p = 5.708d$ .  
**HIP 24450** Ref: 95.558  
**HIP 24451** Ref: 95.684  
**HIP 24468** Ref: 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 24471** Ref: 95.378 95.697 94.236 93.111 93.128  
 77.031  
**HIP 24476** Ref: 35.002 30.012 22.006  
**HIP 24488** Ref: 94.289 91.063 90.059 87.127  
**HIP 24493** Ref: 95.445 93.015  
**HIP 24500** Ref: 88.108 81.103 71.018 64.009 61.005  
 40.003 35.001  
**HIP 24502** Ref: 94.265  
**HIP 24504** Ref: 95.134 95.347 95.684 94.191 90.024  
 85.074 82.063  
 Comments: Possible confirmation of period  
 $p = 0.0881d$  from Ref 94.191. Other notes: D.  
**HIP 24507** Ref: 95.701  
**HIP 24512** Ref: 95.684  
**HIP 24532** Ref: 95.445  
**HIP 24549** Ref: 30.013 22.006  
 Comments: Possible periods  $p = 22.63d$  and  
 $p = 7.513d$ .  
**HIP 24552** Ref: 94.211  
 Comments: Possibly EA or EB type.  
**HIP 24555** Ref: 95.684  
**HIP 24575** Ref: 95.022 95.132 95.388 95.515 94.367  
 30.013  
**HIP 24603** Ref: 91.049 85.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 24607** Ref: 95.684  
**HIP 24608** Ref: 95.012 95.044 95.054 95.058 95.062  
 95.069 95.224 95.300 95.419 95.430 95.468 95.479  
 95.524 95.539 95.586 95.602 95.614 95.628 95.662  
 95.695 95.698 95.699 95.702 94.047 94.134 94.145  
 94.175 94.216 94.265 94.283 94.289 93.092 93.118  
 91.177 86.095  
 Comments: Spectroscopic period not recognised in  
 photometry.  
**HIP 24625** Comments: Possible period  $p = 4.63d$ .  
**HIP 24643** Ref: 94.202  
**HIP 24645** Ref: 95.387 95.581 95.588 95.692 94.204  
 94.465 93.081 93.192 89.031 88.020 86.141 85.222  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 24653** Comments: Possible period  $p = 400d$ .  
**HIP 24663** Ref: 95.313 91.096 80.039  
**HIP 24674** Ref: 95.338 94.403  
**HIP 24679** Ref: 95.445  
**HIP 24710** Comments: Probably EA type. The  
 double-star analysis indicates that it may be the fainter  
 (B) component which is variable. Other notes: D.  
**HIP 24716** Ref: 92.011  
**HIP 24727** Ref: 95.644 94.407 93.092  
**HIP 24732** Ref: 95.684  
**HIP 24740** Ref: 95.276 95.313 94.159 94.426 93.240  
 91.096 86.141 84.043 84.162 83.033 75.029 70.002  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 24742** Ref: 95.445 94.053 94.138  
**HIP 24760** Ref: 95.389 95.392 94.175 94.216 93.118  
 Comments: Possible confirmation of period from Ref  
 95.389.  
**HIP 24763** Ref: 95.359 84.034 30.013 28.002  
**HIP 24786** Ref: 95.445 94.084  
**HIP 24799** Ref: 95.327 95.684 94.202 85.046 84.043  
 80.032  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 24813** Ref: 95.379 95.383 95.399 95.432 95.644  
 94.209 94.407 93.050  
**HIP 24819** Ref: 95.445  
**HIP 24824** Ref: 95.692 93.081 89.031 88.020 82.043  
 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 24825** Ref: 94.229  
**HIP 24827** Ref: 92.044 85.037  
**HIP 24829** Ref: 95.445 95.698  
**HIP 24831** Ref: 95.684  
**HIP 24832** Ref: 95.684  
**HIP 24836** Comments: Period could be double.  
**HIP 24840** Comments: Variations at long (1000d) and  
 short (days) time scales observed.  
**HIP 24845** Ref: 95.154 95.515 95.632 94.055  
**HIP 24879** Ref: 95.523 95.684 95.690  
**HIP 24902** Ref: 95.684  
**HIP 24906** Comments: Period  $p = 2.1838d$  also possible.  
**HIP 24909** Ref: 95.445  
**HIP 24913** Comments: Possibly a flare star.  
**HIP 24927** Ref: 95.684 94.311  
**HIP 24951** Ref: 95.684  
**HIP 24957** Ref: 95.388  
**HIP 24977** Ref: 95.558  
**HIP 24988** Ref: 89.035  
 Comments: Long-term semi-regular variations.  
**HIP 25001** Ref: 95.684  
**HIP 25004** Comments: Period very uncertain.  
**HIP 25007** Ref: 94.198  
**HIP 25028** Ref: 95.642 94.229  
**HIP 25044** Ref: 95.107  
**HIP 25048** Ref: 94.201 94.403  
**HIP 25050** Ref: 95.309 95.361 95.509 95.514 94.418  
 89.092 22.006  
 Comments: Possible period around  $p = 400d$ . Other  
 notes: G.  
**HIP 25092** Ref: 95.090 95.499 95.567 95.704 94.423  
 93.093 93.095 93.211 92.168  
 Comments: Possible confirmation of period from Ref  
 92.168. Light curve noisy.  
**HIP 25096** Ref: 95.423 95.697  
**HIP 25098** Ref: 95.154  
**HIP 25103** Ref: 95.022  
**HIP 25110** Ref: 95.658  
**HIP 25114** Ref: 91.010  
 Comments: Irregular variations. Shell star?  
**HIP 25133** Ref: 95.701  
**HIP 25142** Ref: 95.571 95.683 94.367  
**HIP 25143** Ref: 95.684  
**HIP 25156** Ref: 95.347 94.191 90.024  
 Comments: Period in Ref 94.191 not confirmed.  
**HIP 25174** Ref: 93.211 91.102  
 Comments: Marginal variability.  
**HIP 25178** Ref: 86.103  
 Comments: Possible period  $p = 4.25d$ .  
**HIP 25180** Ref: 95.445  
**HIP 25197** Ref: 95.684 94.209

- HIP 25205** Ref: 95.684  
**HIP 25216** Ref: 95.684  
**HIP 25221** Ref: 95.445  
**HIP 25223** Ref: 95.632  
**HIP 25233** Comments: Probably EA type, but insufficient data.  
**HIP 25235** Ref: 93.211 91.102 85.175 84.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 25240** Ref: 95.445  
**HIP 25247** Ref: 95.704 94.423 93.211  
**HIP 25253** Ref: 95.077 94.049  
**HIP 25278** Ref: 95.064 95.124 95.277 95.658 95.671  
 94.007 93.050  
**HIP 25280** Ref: 95.684  
**HIP 25281** Ref: 94.198 94.314 94.367 88.007 83.021  
**HIP 25292** Ref: 95.419  
**HIP 25299** Ref: 94.211 93.211 91.102  
**HIP 25302** Ref: 95.063 95.232 94.198 94.403 86.087  
 84.033  
 Comments: Gradient in data, star becomes 0.15 mag fainter during the mission.  
**HIP 25336** Ref: 95.313 95.338 94.479  
**HIP 25351** Ref: 95.386  
**HIP 25365** Ref: 94.028 93.048 93.062  
**HIP 25389** Ref: 95.343  
**HIP 25397** Ref: 95.445  
**HIP 25404** Ref: 95.729  
**HIP 25412** Ref: 95.484 95.692 93.192 89.031 88.020  
 82.043 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 25413** Comments: Flare star?  
**HIP 25426** Ref: 95.729  
**HIP 25428** Ref: 95.398  
**HIP 25448** Ref: 95.083  
**HIP 25453** Ref: 95.684  
**HIP 25471** Ref: 95.684 94.202  
**HIP 25472** Ref: 76.012  
**HIP 25473** Ref: 85.074 83.021  
**HIP 25482** Ref: 95.445 91.102  
**HIP 25486** Ref: 95.445 94.111 94.265  
**HIP 25488** Ref: 95.445 95.684  
**HIP 25500** Ref: 95.387  
**HIP 25502** Ref: 95.684  
**HIP 25540** Ref: 95.381 95.605 94.211 94.250 83.067  
**HIP 25541** Ref: 95.390 95.644 94.407  
**HIP 25543** Ref: 94.202  
**HIP 25544** Ref: 95.386 95.445 94.084  
**HIP 25546** Ref: 94.211  
**HIP 25558** Ref: 95.632  
**HIP 25565** Ref: 95.286 94.132 91.097 91.116 89.112  
 83.096 79.002 79.026 77.008 76.034 71.024  
**HIP 25577** Comments: Period possibly half this value.  
**HIP 25580** Ref: 94.406  
**HIP 25591** Ref: 92.076  
**HIP 25606** Ref: 95.062 95.308 95.385 95.698 94.521  
**HIP 25608** Ref: 95.684  
**HIP 25623** Ref: 95.445 94.407  
**HIP 25634** Ref: 95.729  
**HIP 25638** Ref: 95.684  
**HIP 25642** Ref: 77.040 71.018 64.009 61.005 60.002  
 40.003 22.006 7.001  
**HIP 25647** Ref: 95.005 95.038 95.054 95.166 95.224  
 95.242 95.277 95.285 95.287 95.290 95.343 95.486  
 95.524 95.592 95.605 95.606 95.667 95.735 95.761  
 95.775 94.007 94.250 94.265 94.344 94.424 94.439  
 94.500 93.022 93.073 90.120 89.120 88.067 88.131  
 85.202 85.223 84.133 81.002  
 Comments: Slow gradient on the data. Probably superimposed small variations.  
**HIP 25655** Comments: Possibly type GCAS.  
**HIP 25659** Ref: 95.445  
**HIP 25673** Ref: 95.588 95.692 93.192 92.161 89.031  
 88.020 82.043 77.027 70.009 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 25689** Ref: 95.437 95.485 95.605 94.086 94.250  
 94.262 93.121 92.159  
**HIP 25701** Comments: Brighter than expected in Hipparcos Input Catalogue.  
**HIP 25710** Comments: Possible period  $p = 38.3d$ .  
**HIP 25712** Ref: 95.515  
**HIP 25714** Ref: 95.684  
**HIP 25730** Ref: 93.015  
**HIP 25733** Ref: 95.286 95.388 89.005 82.053 78.022  
 71.026  
**HIP 25737** Ref: 95.419  
**HIP 25740** Ref: 95.715 93.233 92.076 91.058 91.096  
 90.090 89.042 89.089 89.162 87.126 83.070 80.049  
**HIP 25760** Ref: 95.313 91.096 89.020 76.010 74.017  
**HIP 25768** Ref: 95.445  
**HIP 25776** Ref: 95.276 91.096 87.015 87.028 81.030  
**HIP 25781** Ref: 95.445  
**HIP 25785** Comments: No sign of variability. At this brightness, unlikely to be misidentified.  
**HIP 25790** Ref: 95.684 94.407  
**HIP 25793** Ref: 94.211  
**HIP 25801** Comments: Gradient in the data (colour incorrect?).  
**HIP 25815** Ref: 94.245  
**HIP 25833** Ref: 95.704 94.423 93.211  
**HIP 25840** Ref: 94.406  
**HIP 25853** Ref: 95.684  
**HIP 25863** Ref: 76.038  
 Comments: Period and zero point confirmed by Ref 76.038. Star in front of an irregular nebula.  
**HIP 25869** Ref: 95.632  
**HIP 25877** Ref: 94.432  
 Comments: Period doubtful. Could also be  $p = 44.8d$ .  
**HIP 25878** Ref: 95.384 95.445 95.475 94.248 94.259  
 94.410  
**HIP 25898** Ref: 95.515  
**HIP 25902** Comments: Possible period  $p = 9.363d$ , but insufficient data for confirmation.  
**HIP 25911** Ref: 95.684  
**HIP 25916** Ref: 95.433 95.445 95.697 94.280  
**HIP 25918** Ref: 95.445 94.259  
**HIP 25923** Ref: 95.338 95.515 94.370  
**HIP 25930** Ref: 95.571 94.357 91.096  
**HIP 25931** Ref: 94.314  
**HIP 25937** Ref: 95.515  
**HIP 25945** Ref: 95.181 95.419 92.162 85.193 84.138  
 84.140 84.170  
**HIP 25947** Ref: 95.388  
**HIP 25953** Ref: 95.341  
**HIP 25954** Ref: 85.175 84.042 84.043  
 Comments: Period from Ref 84.042 confirmed.  
**HIP 25961** Ref: 95.701 95.704 94.423 93.211 91.102  
**HIP 25984** Ref: 94.367  
**HIP 25985** Ref: 95.338 95.478 95.523 95.684 95.690  
**HIP 26001** Ref: 95.704 94.423 93.092 93.211  
**HIP 26008** Ref: 95.196  
**HIP 26012** Ref: 95.515  
**HIP 26016** Comments: Possible flare star. Other notes: G.  
**HIP 26032** Ref: 95.509 94.196 94.418 22.006  
**HIP 26040** Ref: 95.445 94.280  
**HIP 26048** Ref: 84.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26063** Ref: 94.453 87.041 86.117 84.067 83.057  
 83.075 82.067 76.015 75.023 34.001 22.001 22.006  
**HIP 26064** Ref: 94.198 94.403 89.102 84.033  
**HIP 26069** Ref: 92.070 92.110 92.205 89.154 87.170  
 85.054 83.086 81.076 79.013 76.025 71.018 64.009  
 61.002 58.001 58.003 30.013  
**HIP 26071** Ref: 95.684  
**HIP 26072** Ref: 94.209  
**HIP 26079** Ref: 95.445  
**HIP 26081** Ref: 94.265 89.059  
**HIP 26091** Ref: 95.684  
**HIP 26108** Ref: 95.445

- HIP 26126** Ref: 95.684  
**HIP 26130** Ref: 95.515  
**HIP 26166** Ref: 95.632  
**HIP 26167** Ref: 95.704 94.423 93.211 91.102  
**HIP 26175** Ref: 95.445  
**HIP 26176** Ref: 95.632  
**HIP 26182** Ref: 85.042 85.045 84.042 84.043  
**HIP 26190** Ref: 95.445  
**HIP 26197** Ref: 95.642 94.055  
**HIP 26199** Ref: 95.314 95.515 95.642 94.055 94.229  
**HIP 26207** Ref: 95.132 95.199 95.388 95.550 94.198  
**HIP 26210** Ref: 95.515  
**HIP 26213** Ref: 95.515  
**HIP 26220** Ref: 95.135 95.282 95.291 95.319 95.388  
 95.459 95.469 95.490 95.576 95.603 95.670 95.674  
 94.241 94.242 93.056 89.167 88.061 30.012  
 Comments: Disturbed by other members of  
 trapezium. Other notes: G.  
**HIP 26221** Ref: 95.388 89.034  
**HIP 26222** Ref: 95.639 94.245 74.019  
**HIP 26233** Ref: 95.314 95.515 95.576 94.403 93.078  
 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26235** Ref: 95.026 95.135 95.202 95.291 95.576  
 95.603 94.241 94.242 89.034  
**HIP 26237** Ref: 94.248  
**HIP 26238** Ref: 93.211 91.102  
**HIP 26241** Ref: 95.135 95.338 95.388 95.469 94.314  
 94.357 94.396 88.129  
**HIP 26247** Ref: 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 26248** Ref: 94.209  
**HIP 26258** Ref: 95.135 95.576 94.055 94.357 85.222  
**HIP 26264** Ref: 91.053 85.074 84.043 76.018  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26268** Ref: 95.684  
**HIP 26272** Ref: 95.022  
**HIP 26282** Comments: Measurements perturbed by  
 the bright neighbour HIP 26279, 30 arcsec distant.  
 Variability spurious.  
**HIP 26295** Ref: 95.056 95.077 94.049 94.211 93.211  
**HIP 26300** Ref: 93.073  
**HIP 26304** Ref: 95.515 94.074 84.042  
 Comments: Probably variable. Ref 84.042  
 ( $p = 5.6732d$  and  $p = 4.1513d$ ) do not fit. Possible  
 period  $p = 9.492d$ .  
**HIP 26309** Ref: 95.684  
**HIP 26311** Ref: 95.024 95.181 95.313 95.472 95.571  
 94.055 94.314  
**HIP 26313** Ref: 93.211 91.102  
**HIP 26315** Ref: 95.684  
**HIP 26319** Ref: 90.087  
**HIP 26327** Ref: 95.042 95.077 95.091 95.161 95.199  
 95.342 95.542 95.605 94.004 94.030 94.049 94.122  
 94.211 94.212 94.250 94.317 94.411 94.417 93.211  
 91.102  
**HIP 26332** Ref: 94.289 93.015  
**HIP 26334** Ref: 95.515  
**HIP 26344** Comments: Possible period  $p = 4.5890d$ .  
**HIP 26345** Ref: 95.632  
**HIP 26354** Comments: Possible drift.  
**HIP 26366** Ref: 95.256 95.383 95.644 94.259 94.280  
 94.407  
**HIP 26368** Ref: 93.211  
**HIP 26373** Ref: 94.265  
**HIP 26382** Ref: 95.684 93.066 93.097  
**HIP 26386** Ref: 93.118 85.090  
**HIP 26394** Ref: 95.445 94.259  
**HIP 26395** Ref: 95.684  
**HIP 26403** Ref: 95.042 95.056 95.077 95.342 95.381  
 95.542 95.605 95.704 94.049 94.122 94.211 94.212  
 94.250 94.423 93.211 92.087 91.102 83.067 30.012  
 22.006  
 Comments: Variable over time scale of 1000d, more  
 than 2 mag. Appears almost like eclipse.  
**HIP 26405** Ref: 95.515  
**HIP 26408** Ref: 95.684  
**HIP 26410** Ref: 95.150 95.684  
**HIP 26412** Ref: 95.445 95.684  
**HIP 26432** Ref: 95.704 94.423  
**HIP 26434** Comments: Possibly EA type.  
**HIP 26442** Ref: 93.211 91.102  
**HIP 26449** Comments: Possible GCAS type.  
**HIP 26451** Ref: 95.063 95.104 95.267 95.337 95.615  
 94.136 94.198 94.403 94.438 94.544 92.136 89.116  
 87.141 84.091 80.056  
 Comments: Possible periods of  $p = 14.53d$ ,  
 $p = 29.06d$ , and  $p = 21.79d$ . Could be E type if  
 $p = 29.06d$ .  
**HIP 26453** Ref: 95.684 93.030  
**HIP 26460** Ref: 95.124  
**HIP 26464** Ref: 95.515  
**HIP 26488** Ref: 95.386 95.445 94.084  
**HIP 26501** Ref: 95.445  
**HIP 26549** Ref: 95.212 95.241 95.314 95.357 94.054  
 94.314  
**HIP 26563** Ref: 95.379 95.684  
**HIP 26566** Ref: 91.102 89.164 85.060  
**HIP 26579** Ref: 95.515  
**HIP 26581** Ref: 95.515  
**HIP 26594** Ref: 95.042 95.261 95.325 95.342 94.004  
 94.198 94.211 94.403 91.102 90.126 89.074 89.095  
 87.020 84.033  
 Comments: Possible period  $p = 10.22d$ .  
**HIP 26602** Ref: 94.367  
**HIP 26606** Ref: 95.022 93.126  
 Comments: Period possibly ambiguous.  
**HIP 26611** Ref: 95.632  
**HIP 26616** Ref: 95.684  
**HIP 26619** Ref: 85.222  
**HIP 26624** Ref: 95.445 95.684  
**HIP 26634** Ref: 94.198 91.128 90.028  
**HIP 26640** Ref: 91.102  
**HIP 26649** Ref: 95.445  
**HIP 26656** Ref: 84.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26658** Ref: 95.712  
**HIP 26675** Ref: 95.692 93.081 93.192 89.031 88.020  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 26676** Ref: 95.445  
**HIP 26693** Ref: 93.211 91.102  
**HIP 26697** Ref: 95.515  
**HIP 26704** Ref: 95.704 94.423 93.211  
**HIP 26713** Ref: 91.102  
**HIP 26714** Ref: 95.343 94.125 94.145 93.073 93.092  
 93.118 92.066 92.111 89.060 85.200  
 Comments: Possible period  $p = 28.75d$  (see also Ref  
 92.066).  
**HIP 26718** Ref: 95.303 95.387 94.052 93.093 93.095  
**HIP 26727** Ref: 95.212 95.241 95.313 95.472 95.699  
 94.054 94.198 94.314 91.128  
 Comments: Possible period  $p = 1.407d$ .  
**HIP 26728** Ref: 95.152 93.009 91.053 85.042 85.045  
 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26740** Ref: 95.423 95.697 95.704 94.423 93.211  
**HIP 26742** Ref: 95.014 95.327 95.515 91.053 84.043  
 75.016  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 26752** Ref: 95.077 94.049 94.211 91.102 87.141  
**HIP 26753** Ref: 95.509 94.418 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 26754** Ref: 95.230 85.222  
**HIP 26756** Ref: 91.102  
**HIP 26762** Ref: 95.445 95.684 93.015  
**HIP 26777** Ref: 94.209  
**HIP 26779** Ref: 95.193 95.671 94.188 94.256 83.004

- HIP 26795** Ref: 95.268 95.694 94.125 93.073 93.092  
93.118 92.066 92.111 91.042 89.060 85.193  
Comments: Possibly EA type. Possible periods  
 $p = 3.118d$  and  $p = 6.236d$ .
- HIP 26803** Ref: 94.206
- HIP 26816** Ref: 95.022 95.212 95.213 95.317 95.590  
95.623 95.652 94.367
- HIP 26823** Ref: 95.095
- HIP 26834** Ref: 95.445
- HIP 26865** Ref: 95.143 95.684
- HIP 26872** Comments: Possible GCAS type.
- HIP 26876** Ref: 95.515
- HIP 26887** Ref: 93.211 91.102
- HIP 26889** Ref: 95.388
- HIP 26893** Ref: 95.445
- HIP 26907** Ref: 95.445
- HIP 26926** Ref: 95.445
- HIP 26939** Ref: 95.213 95.560
- HIP 26953** Ref: 95.062 93.092 85.193 84.140
- HIP 26958** Ref: 95.581 22.006
- HIP 26959** Comments: Possible period  $p = 10.06d$ .
- HIP 26964** Ref: 95.063 84.033 80.056
- HIP 26966** Ref: 95.684
- HIP 26973** Ref: 95.445
- HIP 26981** Ref: 95.445 95.732
- HIP 26983** Comments: Possible period  $p = 9.08d$ .
- HIP 26986** Ref: 93.092
- HIP 26998** Comments: Possible period  $p = 0.3374d$ .
- HIP 27001** Ref: 95.445
- HIP 27013** Ref: 95.704 94.423 93.211
- HIP 27015** Ref: 95.684
- HIP 27047** Ref: 95.697 94.271 94.280
- HIP 27053** Ref: 95.704 94.423 93.211
- HIP 27059** Ref: 95.704 94.423 93.211
- HIP 27072** Ref: 95.379 95.383 95.658 94.056 94.257  
94.407 94.410 93.050
- HIP 27080** Ref: 95.445
- HIP 27100** Ref: 95.684 95.704 94.423
- HIP 27110** Ref: 94.206
- HIP 27116** Ref: 93.211 91.102
- HIP 27118** Ref: 95.445 95.684
- HIP 27119** Ref: 94.176 94.177 93.190 85.084 84.087  
77.040 71.018 64.009 61.002 58.001 40.003 22.006
- HIP 27128** Ref: 95.697
- HIP 27129** Ref: 94.406
- HIP 27134** Ref: 94.265
- HIP 27135** Ref: 95.509 94.418 30.013 22.006  
Comments: Amplitude of variations smaller than  
expected.
- HIP 27144** Comments: Possible period  $p = 3.51d$ .
- HIP 27165** Ref: 95.432 93.050
- HIP 27181** Ref: 95.084 95.109 95.184 95.361 95.509  
95.648 95.648 94.418 93.169 30.013 22.006 7.001
- HIP 27183** Ref: 95.039 95.411 95.448 94.176 94.177  
90.032 89.040 87.032 87.164 86.002 77.040 76.026  
74.032
- HIP 27192** Ref: 95.684
- HIP 27196** Ref: 95.684
- HIP 27204** Ref: 95.132 95.388 95.463 95.515 95.539  
95.547 95.618 95.645 95.672 95.672 95.685 94.309  
94.370 94.390
- HIP 27249** Ref: 95.684
- HIP 27253** Ref: 95.445
- HIP 27286** Ref: 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 27288** Ref: 95.684
- HIP 27308** Ref: 95.445
- HIP 27309** Comments: Star in a bright nebula.  
Photometric variability possibly spurious.
- HIP 27316** Ref: 96.002 95.033 95.060 95.150 95.684  
94.046 93.026
- HIP 27318** Comments: Possible period  $p = 8.403d$ .
- HIP 27321** Ref: 95.012 95.033 95.056 95.082 95.143  
95.145 95.150 95.154 95.169 95.185 95.192 95.225  
95.263 95.360 95.474 95.489 95.540 95.582 95.606  
95.684 94.114 94.160 94.211
- HIP 27338** Ref: 93.015
- HIP 27341** Ref: 95.684 90.017 89.030 77.029
- HIP 27364** Ref: 95.642
- HIP 27366** Ref: 95.024 95.313 94.055 94.314  
Comments: Possible period  $p = 1.3550d$ .
- HIP 27368** Ref: 95.515
- HIP 27386** Ref: 95.684
- HIP 27398** Ref: 95.509 94.418 7.001  
Comments: Possible period  $p = 29.5d$  (very  
uncertain).
- HIP 27400** Ref: 95.347 95.770 94.191 90.024 86.001  
85.015  
Comments: Period from Ref 94.191 confirmed.
- HIP 27421** Ref: 94.206
- HIP 27423** Ref: 84.043 81.036  
Comments: No confirmation of period from Ref  
84.043.
- HIP 27435** Ref: 95.445
- HIP 27465** Ref: 91.003 30.012 22.006  
Comments: Wrongly identified with SU Tau in  
Hipparcos Input Catalogue (Bull. Inf. CDS 46, 14,  
1995), confirmed by Hipparcos observations. Other  
notes: G.
- HIP 27468** Ref: 94.407
- HIP 27469** Comments: Period uncertain.
- HIP 27472** Ref: 95.684
- HIP 27473** Comments: Possible period  $p = 73.4d$ .
- HIP 27502** Ref: 95.534 91.042
- HIP 27511** Ref: 95.580 94.028 94.278 93.003 93.048  
93.062
- HIP 27530** Ref: 94.259
- HIP 27533** Ref: 95.684
- HIP 27534** Ref: 95.704 94.423
- HIP 27549** Ref: 95.445
- HIP 27562** Ref: 93.142 92.154 87.105
- HIP 27578** Ref: 95.445
- HIP 27588** Ref: 93.043
- HIP 27591** Comments: Possible period  $p = 5.405d$ .
- HIP 27592** Ref: 95.684
- HIP 27611** Ref: 95.004
- HIP 27639** Ref: 95.419
- HIP 27654** Ref: 95.479 94.259 93.015
- HIP 27662** Ref: 91.102
- HIP 27673** Ref: 95.390 95.410 95.419
- HIP 27696** Ref: 94.104
- HIP 27713** Ref: 95.150 95.684
- HIP 27727** Ref: 94.125 94.216 93.118 92.165
- HIP 27737** Ref: 95.445 93.118
- HIP 27743** Ref: 96.002 95.684 91.053 84.043 81.048  
80.002
- HIP 27745** Ref: 95.693
- HIP 27777** Ref: 95.143 95.684
- HIP 27810** Ref: 93.271 85.074  
Comments: Possibly double period and ELL. See  
also Ref 85.074.
- HIP 27811** Ref: 95.558
- HIP 27830** Ref: 95.684
- HIP 27835** Ref: 95.343
- HIP 27843** Ref: 95.343 94.125 93.073 93.118 89.060
- HIP 27870** Ref: 95.343
- HIP 27874** Comments: Possible period  $p = 1.745d$ . Other  
notes: D.
- HIP 27876** Ref: 95.684
- HIP 27881** Ref: 95.388
- HIP 27896** Ref: 95.445
- HIP 27897** Ref: 95.445
- HIP 27900** Ref: 95.445
- HIP 27901** Ref: 95.445
- HIP 27912** Comments: Possible period  $p = 3.201d$ .

- HIP 27913** Ref: 95.054 95.064 95.124 95.224 95.268  
95.277 95.285 95.379 95.432 95.524 95.631 95.644  
95.658 95.671 95.698 94.007 94.209 94.232 94.257  
94.265 94.385 94.407 94.410 93.050 92.213
- HIP 27918** Ref: 95.445
- HIP 27924** Ref: 95.684
- HIP 27933** Ref: 95.534 91.042
- HIP 27938** Ref: 95.206 95.526 95.665
- HIP 27941** Ref: 95.388
- HIP 27947** Ref: 95.684 83.020
- HIP 27949** Ref: 95.150 95.515 95.684 94.209
- HIP 27965** Ref: 94.248
- HIP 27971** Ref: 95.684 80.028 68.005
- HIP 27973** Ref: 95.684
- HIP 27989** Ref: 95.057 95.109 95.181 95.364 95.419  
95.440 95.468 95.484 95.588 95.599 95.624 95.625  
94.067 94.264 94.273 94.350 94.364 94.479 92.162  
92.170 90.021 90.102 88.070 84.191 30.013 22.006  
7.001  
Comments: Variations on time scale of 400d.
- HIP 28019** Ref: 95.684
- HIP 28020** Ref: 92.029
- HIP 28023** Comments: Possible period  $p = 5.97d$ .
- HIP 28036** Ref: 94.111
- HIP 28041** Ref: 95.319 95.387 95.491 95.581 95.588  
95.692 94.204 94.273 94.290 94.291 94.413 91.092  
91.186 88.020 88.043 86.141 85.222 85.236 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 28045** Ref: 22.006
- HIP 28055** Ref: 95.697
- HIP 28066** Ref: 95.445
- HIP 28085** Ref: 95.445
- HIP 28086** Ref: 95.684
- HIP 28098** Ref: 95.445 95.684
- HIP 28103** Ref: 95.684 93.015 93.066 93.097
- HIP 28110** Ref: 95.445
- HIP 28117** Ref: 95.684
- HIP 28138** Ref: 95.558
- HIP 28139** Ref: 95.445
- HIP 28142** Ref: 93.211 91.102  
Comments: Alternative period  $p = 3.28d$  (less likely).
- HIP 28146** Ref: 95.684
- HIP 28151** Comments: Possible period  $p = 2.512d$ .
- HIP 28154** Ref: 95.684 94.407
- HIP 28162** Ref: 95.389 95.392 94.175 94.216 93.118  
Comments: Brighter than expected. Possible  
confirmation of period from Ref 95.389.
- HIP 28166** Ref: 30.013  
Comments: Ephemeris based on AAVSO data.
- HIP 28173** Ref: 95.445
- HIP 28180** Ref: 95.445
- HIP 28199** Ref: 95.642 94.311
- HIP 28215** Comments: Possible period  $p = 11.5d$ .
- HIP 28252** Ref: 95.210
- HIP 28255** Ref: 95.018 95.091
- HIP 28271** Ref: 95.347 95.445 95.684 94.191 90.024  
83.020  
Comments: No confirmation of period from Ref  
94.191.
- HIP 28287** Ref: 95.445
- HIP 28289** Ref: 93.211 91.102
- HIP 28296** Ref: 95.684
- HIP 28321** Ref: 95.347 94.191 94.286 90.024 85.241  
84.097 83.020 82.063  
Comments: Confirmation of period from Ref 94.191.
- HIP 28324** Ref: 86.103
- HIP 28325** Ref: 95.684
- HIP 28327** Ref: 95.095
- HIP 28343** Ref: 93.092
- HIP 28344** Ref: 95.704 94.423
- HIP 28355** Comments: Probably disturbed by nearby star  
26 arcsec NE. Variability probably spurious.
- HIP 28358** Ref: 94.209
- HIP 28360** Ref: 95.313 95.356 95.684 94.032 91.096  
71.010 30.013 22.006
- HIP 28380** Ref: 95.684 94.202 93.088 91.053 84.013  
84.036 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 28385** Ref: 95.684
- HIP 28403** Ref: 95.445
- HIP 28404** Ref: 95.625 94.264
- HIP 28406** Ref: 94.202
- HIP 28417** Ref: 94.104
- HIP 28434** Ref: 95.684
- HIP 28440** Comments: Possibly half the period and RRc  
type.
- HIP 28442** Ref: 95.445
- HIP 28456** Ref: 95.371 95.412 95.414
- HIP 28472** Ref: 30.013 22.006
- HIP 28484** Ref: 95.684
- HIP 28485** Ref: 94.406
- HIP 28489** Ref: 93.211 91.053 91.102 85.042 85.045  
84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 28499** Ref: 95.684 91.053 90.065 84.043 83.033
- HIP 28500** Ref: 95.684
- HIP 28501** Ref: 85.174
- HIP 28509** Comments: Possibly EA type.
- HIP 28517** Ref: 95.684
- HIP 28520** Ref: 95.684
- HIP 28537** Ref: 95.715 94.538 79.033 74.041 26.003  
22.006
- HIP 28558** Ref: 94.196
- HIP 28577** Ref: 95.445
- HIP 28582** Ref: 95.077 95.149 95.161 95.176 95.342  
95.496 94.049 94.211 94.355 94.405 93.013 93.211  
91.035 91.102
- HIP 28596** Comments: Possible period  $p = 220d$ .
- HIP 28604** Ref: 95.445
- HIP 28614** Ref: 95.515 95.684 94.206 93.066 93.097
- HIP 28622** Ref: 95.445
- HIP 28625** Ref: 93.190 91.190 88.108 85.084 84.087  
80.068 71.018 64.009 61.005 40.003 22.006
- HIP 28626** Ref: 94.406
- HIP 28637** Ref: 95.684
- HIP 28671** Ref: 95.087 95.122 95.445 94.043 94.188
- HIP 28672** Ref: 95.445
- HIP 28699** Comments: Wrongly identified with RW Col  
in Hipparcos Input Catalogue. Other notes: G.
- HIP 28714** Ref: 95.230 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 28715** Ref: 95.268 95.430 94.047 94.125 94.269  
94.419 93.118 93.180 92.081 89.060 85.093 84.018  
80.030 79.043
- HIP 28716** Ref: 95.523 95.683 94.055 94.367 94.407  
91.128
- HIP 28717** Ref: 94.202
- HIP 28734** Ref: 95.062 94.206 94.265 93.092 85.193  
84.140
- HIP 28744** Ref: 95.704 94.423 93.211 91.102 90.158  
87.141 84.033 84.163
- HIP 28756** Ref: 95.388
- HIP 28764** Ref: 95.445
- HIP 28765** Ref: 95.684
- HIP 28767** Ref: 94.406
- HIP 28790** Ref: 93.211 91.102
- HIP 28796** Ref: 94.265 87.098
- HIP 28816** Ref: 95.143 95.263 95.394 95.684 92.162
- HIP 28820** Ref: 95.419 90.108
- HIP 28823** Ref: 95.684
- HIP 28824** Ref: 95.445 95.697 94.280
- HIP 28830** Ref: 95.210
- HIP 28854** Ref: 95.445
- HIP 28855** Ref: 95.684
- HIP 28861** Ref: 84.043
- HIP 28874** Ref: 95.230 95.475 94.196 30.013 22.006  
7.001
- HIP 28881** Ref: 95.388

- HIP 28898** Ref: 95.445  
**HIP 28899** Ref: 95.684  
**HIP 28908** Ref: 95.432 93.050  
**HIP 28909** Ref: 95.704 94.423  
**HIP 28910** Ref: 95.684  
**HIP 28930** Ref: 91.135  
 Comments: Possible period  $p = 17.15d$ .  
**HIP 28941** Ref: 95.445  
**HIP 28943** Ref: 95.684  
**HIP 28945** Ref: 94.228 85.084 84.087 81.103 71.018  
 64.009 61.005  
**HIP 28946** Ref: 95.684  
**HIP 28949** Ref: 95.154 94.209  
**HIP 28954** Ref: 95.043  
**HIP 28984** Comments: Possible period  $p = 39.6d$ .  
**HIP 28988** Ref: 95.445  
**HIP 28992** Ref: 94.198  
**HIP 29022** Ref: 95.410 71.018 64.009 61.005  
**HIP 29041** Ref: 95.265  
**HIP 29048** Comments: Possible period  $p = 2.442d$ .  
**HIP 29055** Ref: 94.236  
**HIP 29064** Ref: 95.684 93.211 91.102  
**HIP 29071** Ref: 93.073 93.092 93.118  
 Comments: Possible period  $p = 11.41d$ .  
**HIP 29096** Comments: Probably a BY Dra type.  
**HIP 29103** Ref: 93.073  
**HIP 29106** Ref: 75.016  
**HIP 29114** Ref: 95.644 94.407  
**HIP 29120** Ref: 94.367  
**HIP 29121** Ref: 75.016  
**HIP 29134** Ref: 93.211  
**HIP 29147** Ref: 95.388 95.693  
**HIP 29149** Ref: 95.445 93.211  
**HIP 29150** Ref: 95.684  
**HIP 29151** Ref: 95.143 95.154 95.684  
**HIP 29175** Ref: 94.202  
**HIP 29178** Ref: 95.684  
**HIP 29185** Ref: 95.445  
**HIP 29186** Comments: Possibly half the period.  
**HIP 29198** Comments: Possible period  $p = 6.557d$ .  
**HIP 29210** Ref: 95.445 95.684 93.015  
**HIP 29216** Ref: 95.265  
**HIP 29225** Comments: Possible alternative period  
 $p = 3.814d$ .  
**HIP 29233** Ref: 95.445  
**HIP 29234** Ref: 95.445  
**HIP 29271** Ref: 95.386 95.445 94.084 94.410 93.211  
**HIP 29276** Ref: 95.388 95.494 83.021  
**HIP 29288** Ref: 94.206  
**HIP 29295** Ref: 95.445 95.475 94.410 89.059  
**HIP 29316** Ref: 95.445 94.410  
**HIP 29323** Ref: 95.684 85.045 84.043  
**HIP 29347** Ref: 95.684  
**HIP 29353** Ref: 94.204  
**HIP 29360** Ref: 95.265  
**HIP 29365** Ref: 94.202 93.253  
**HIP 29367** Ref: 95.265  
**HIP 29386** Comments: Wrongly identified with GQ Ori in  
 Hipparcos Input Catalogue. Other notes: G.  
**HIP 29388** Ref: 95.684  
**HIP 29401** Ref: 91.053 84.043  
**HIP 29404** Ref: 95.684  
**HIP 29416** Ref: 95.387 93.150 22.006 7.001  
 Comments: Brighter than expected by 1 mag.  
**HIP 29417** Ref: 95.704 94.209 94.423 93.211 91.102  
**HIP 29425** Ref: 93.150 30.013  
**HIP 29427** Ref: 95.697  
**HIP 29432** Ref: 95.386  
**HIP 29433** Ref: 91.101  
**HIP 29434** Ref: 84.033 81.037  
**HIP 29441** Ref: 91.002 88.020 86.141 85.222 22.006  
 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 29450** Ref: 95.181 95.387  
**HIP 29464** Ref: 94.189  
**HIP 29487** Ref: 95.445 95.684  
**HIP 29488** Comments: Possibly double the period and  
 EW type.  
**HIP 29490** Ref: 85.090  
**HIP 29509** Comments: Possible period  $p = 4.806d$ .  
**HIP 29525** Ref: 95.277 95.386 95.445  
**HIP 29528** Ref: 94.236  
**HIP 29540** Ref: 87.121  
**HIP 29552** Ref: 95.445  
**HIP 29565** Ref: 94.202 84.043 78.038  
 Comments: Period from Ref 78.038 confirmed.  
**HIP 29575** Ref: 94.209  
**HIP 29583** Ref: 94.282 94.286 82.054  
**HIP 29587** Ref: 95.265  
**HIP 29596** Ref: 95.445  
**HIP 29604** Comments: Possible period  $p = 24.12d$ .  
**HIP 29616** Ref: 95.684  
**HIP 29644** Ref: 95.210  
**HIP 29650** Ref: 95.432 93.050  
**HIP 29651** Ref: 95.419  
**HIP 29655** Ref: 95.419 95.475 95.783 94.196 92.162  
 30.012 22.006 7.001  
 Comments: Ephemeris based on AAVSO data. Other  
 notes: D.  
**HIP 29673** Ref: 95.445  
**HIP 29678** Ref: 95.098  
**HIP 29687** Ref: 75.016  
**HIP 29696** Ref: 95.137  
**HIP 29706** Ref: 95.445  
**HIP 29711** Ref: 95.684  
**HIP 29716** Ref: 95.383 95.445 95.658 94.407 93.050  
**HIP 29746** Ref: 95.445 93.015  
**HIP 29759** Ref: 95.087 95.122 95.235 95.445 94.043  
 94.188 94.389  
**HIP 29771** Ref: 94.198 84.033  
**HIP 29788** Ref: 95.445  
**HIP 29793** Ref: 95.712 90.145  
 Comments: Period from Ref 90.145 confirmed.  
**HIP 29808** Ref: 95.684  
**HIP 29839** Ref: 94.209  
**HIP 29840** Ref: 95.575  
**HIP 29843** Ref: 95.445  
**HIP 29850** Ref: 95.684 94.206  
**HIP 29852** Ref: 95.445 95.684  
**HIP 29860** Ref: 95.445 95.671  
**HIP 29862** Comments: Wrongly identified with EH CMa  
 in Hipparcos Input Catalogue. Spurious variability due  
 to erroneous colour. Other notes: G.  
**HIP 29884** Ref: 95.606 95.684  
**HIP 29885** Ref: 95.684 83.020  
**HIP 29895** Ref: 95.558  
**HIP 29896** Ref: 95.509 94.418  
 Comments: Possible period  $p = 476d$ .  
**HIP 29901** Comments: Possible period  $p = 5.1702d$ .  
**HIP 29911** Ref: 94.504  
**HIP 29913** Ref: 95.445  
**HIP 29919** Comments: Possible period  $p = 2.499d$ .  
**HIP 29931** Ref: 95.684  
**HIP 29964** Ref: 94.265  
**HIP 29968** Ref: 95.388  
**HIP 29969** Ref: 95.445  
**HIP 29982** Ref: 93.092  
**HIP 29990** Ref: 95.445  
**HIP 29992** Ref: 95.210 95.423 95.433 95.445 95.697  
 94.188 94.271 94.280  
**HIP 29997** Ref: 95.684  
**HIP 30018** Ref: 94.188  
**HIP 30019** Ref: 95.222 95.288 95.684 94.187 91.053  
 85.178 84.043 82.031  
**HIP 30030** Ref: 95.210  
**HIP 30046** Ref: 75.016  
**HIP 30049** Ref: 94.367  
**HIP 30055** Ref: 90.059  
**HIP 30060** Ref: 95.125 95.280 95.347 95.684 94.202  
 78.008

- HIP 30067** Ref: 95.432 93.050  
**HIP 30089** Ref: 95.137 95.231 95.294 94.120  
**HIP 30093** Ref: 95.419 94.204  
**HIP 30098** Ref: 94.188  
**HIP 30099** Ref: 95.445 94.259  
**HIP 30104** Ref: 95.059 95.445  
**HIP 30167** Ref: 95.445  
**HIP 30185** Comments: Period possibly spurious.  
**HIP 30200** Ref: 95.684  
**HIP 30210** Ref: 95.445  
**HIP 30214** Ref: 95.063 95.693 84.033  
 Comments: Peculiar eclipse-like features from JD 2 448 585 to 2 448 587.  
**HIP 30217** Ref: 95.684  
**HIP 30219** Ref: 95.447 95.452 95.482 93.146 91.190 85.084 84.087 81.103 76.025 71.018 64.009 58.001 40.003  
**HIP 30227** Comments: Possible period  $p = 4.367d$ .  
**HIP 30237** Comments: Possible period  $p = 26.6d$ .  
**HIP 30243** Ref: 95.445  
**HIP 30247** Ref: 94.289  
**HIP 30269** Ref: 95.210  
**HIP 30270** Comments: Possible alternative period  $p = 6.41d$ .  
**HIP 30272** Ref: 95.684  
**HIP 30286** Ref: 91.190 90.150 86.141 85.054 85.084 84.087 80.068 76.025 71.018 64.009 61.002 61.005 58.001 40.003 30.013 28.003 22.006  
**HIP 30301** Ref: 95.303  
**HIP 30318** Ref: 95.684  
**HIP 30324** Ref: 95.012 95.058 95.069 95.092 95.232 95.313 95.479 95.533 95.602 94.098 94.265 85.019 81.022 75.016 73.030 53.005  
**HIP 30326** Ref: 95.588 95.692 89.031 88.020 82.043 81.016 77.027 74.036 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 30338** Ref: 95.567 95.704 94.423 93.211 91.102  
**HIP 30342** Ref: 95.684  
**HIP 30343** Ref: 95.419 95.475 95.613  
**HIP 30351** Ref: 65.004  
**HIP 30376** Ref: 95.704 94.423 93.211 91.102  
**HIP 30387** Ref: 95.684  
**HIP 30389** Ref: 95.693  
**HIP 30409** Comments: Period  $p = 200d$  superimposed on gradient.  
**HIP 30419** Ref: 95.684  
**HIP 30423** Ref: 95.343  
**HIP 30438** Ref: 95.066 95.304 95.313 95.478 95.511 95.523 94.041 94.265  
**HIP 30441** Ref: 95.206  
**HIP 30448** Ref: 95.684 94.209  
**HIP 30449** Ref: 88.020 22.006 7.001  
**HIP 30457** Ref: 95.704 94.423 93.211 91.102  
**HIP 30460** Ref: 87.121  
**HIP 30463** Ref: 95.684  
**HIP 30468** Ref: 84.033  
**HIP 30476** Ref: 95.445  
**HIP 30480** Ref: 95.399 95.445 94.056 93.050  
**HIP 30496** Ref: 95.693  
**HIP 30501** Ref: 93.092  
**HIP 30503** Ref: 95.445  
**HIP 30507** Ref: 95.546  
**HIP 30514** Ref: 95.445  
**HIP 30517** Ref: 91.102  
**HIP 30520** Ref: 95.419  
**HIP 30521** Ref: 92.182  
 Comments: According to Ref 92.182 wrongly identified with NSV 2954. Other notes: G.  
**HIP 30525** Ref: 95.567  
**HIP 30529** Ref: 91.102
- HIP 30541** Ref: 95.419 95.447 95.452 95.482 95.580 94.177 94.287 94.375 94.376 94.377 93.146 92.070 92.110 92.205 91.190 89.009 88.028 88.108 85.084 85.222 84.087 83.104 81.103 80.053 80.054 76.025 71.018 68.012 64.009 61.002 58.001 51.001 40.003 22.006 7.001  
**HIP 30545** Ref: 95.445 95.671  
**HIP 30547** Ref: 95.684  
**HIP 30564** Ref: 95.309 95.361 95.509 94.418 91.102 7.001  
**HIP 30566** Ref: 95.445 95.704 94.423 93.211 91.102  
**HIP 30569** Ref: 94.206  
**HIP 30570** Ref: 95.684  
**HIP 30582** Ref: 93.073  
**HIP 30595** Ref: 93.092  
**HIP 30608** Ref: 95.445 95.684  
**HIP 30618** Ref: 30.013  
 Comments: Change in period observed.  
**HIP 30630** Ref: 95.124 95.268 95.341 94.257 94.485 93.118 92.065 92.066 91.054 81.113  
 Comments: Possible confirmation of  $p = 7.36d$  period (Ref 81.113).  
**HIP 30633** Ref: 85.003  
**HIP 30651** Ref: 95.684 93.233 91.096 90.133  
**HIP 30660** Ref: 95.704 94.423 93.211  
**HIP 30666** Ref: 95.563 95.684 94.202  
**HIP 30668** Ref: 95.087 95.122 95.193 95.445 95.697 94.043 94.188 94.280  
**HIP 30675** Ref: 95.684 94.278  
**HIP 30692** Ref: 95.684  
**HIP 30695** Ref: 95.196  
**HIP 30700** Ref: 95.704 94.423 93.211  
**HIP 30701** Ref: 94.196 30.013  
 Comments: Possible period  $p = 256d$ .  
**HIP 30703** Ref: 95.445  
**HIP 30705** Ref: 95.697  
**HIP 30706** Ref: 95.445  
**HIP 30711** Ref: 95.445  
**HIP 30720** Ref: 95.445  
**HIP 30722** Ref: 94.357  
**HIP 30735** Ref: 94.406 86.042  
**HIP 30769** Ref: 95.684  
**HIP 30772** Ref: 95.704 94.209 94.423 93.211 91.102  
**HIP 30785** Comments: Possible period  $p = 7.66d$ .  
**HIP 30788** Ref: 95.515 94.311  
**HIP 30793** Ref: 85.042 84.043  
**HIP 30794** Ref: 95.684  
**HIP 30800** Ref: 95.056 95.263 95.281 95.652 94.211 94.333 93.211 91.149 86.087 80.009 76.004 72.011  
**HIP 30806** Comments: Possible period  $p = 2.229d$ .  
**HIP 30807** Comments: Possible period  $p = 1.4481d$ .  
**HIP 30815** Ref: 91.102  
**HIP 30822** Comments: Other periods also possible.  
**HIP 30827** Ref: 93.246 92.110 91.190 86.141 85.017 85.084 85.222 84.087 80.054 77.040 76.021 73.025 71.018 68.012 64.009 58.003 40.003 22.006 7.001  
**HIP 30840** Comments: Possible period  $p = 0.55834d$  or related.  
**HIP 30849** Ref: 95.445  
**HIP 30867** Ref: 95.104 95.515 95.704 94.079 94.100 94.311 94.423 93.211 73.014  
**HIP 30875** Comments: Possible period  $p = 35.8d$ .  
**HIP 30878** Comments: Possible periods  $p = 1.5718d$  or  $p = 1.9265d$ .  
**HIP 30882** Ref: 95.343  
**HIP 30883** Ref: 95.063  
**HIP 30886** Ref: 95.445 95.684  
**HIP 30920** Ref: 95.341 94.265 94.267 91.136  
**HIP 30941** Ref: 91.042  
**HIP 30945** Ref: 95.230 30.013 22.006  
**HIP 30956** Ref: 94.280  
**HIP 30967** Ref: 92.182  
 Comments: Ref 92.182: This star is probably NSV 2954.  
**HIP 30970** Ref: 94.259

- HIP 30977** Ref: 95.684 94.202  
**HIP 30986** Ref: 95.704 94.423 93.211 91.102  
**HIP 30992** Comments: Possible period  $p = 1.8240d$ .  
**HIP 31008** Comments: Period possibly half.  
**HIP 31019** Ref: 93.092 84.033  
 Comments: Possible period  $p = 1.37d$ .  
**HIP 31039** Ref: 95.268  
**HIP 31054** Comments: Possible period  $p = 3.259d$ .  
**HIP 31056** Ref: 95.445  
**HIP 31062** Ref: 95.343 93.073 93.092 93.118 92.066  
**HIP 31066** Ref: 94.198  
**HIP 31078** Ref: 95.445  
**HIP 31079** Ref: 95.445  
**HIP 31084** Ref: 95.704 94.423 93.211 91.102  
**HIP 31085** Ref: 94.188  
**HIP 31105** Ref: 95.684  
**HIP 31106** Ref: 95.515  
**HIP 31107** Ref: 91.102  
**HIP 31108** Comments: Possible period  $p = 1.300d$ .  
**HIP 31116** Comments: Period could be double.  
**HIP 31119** Ref: 95.684  
**HIP 31125** Ref: 95.279 94.019 94.205 94.390 92.061  
 81.022 79.003 75.016  
**HIP 31128** Ref: 95.338 95.515  
**HIP 31130** Ref: 95.338 95.515 94.209  
**HIP 31134** Ref: 95.445  
**HIP 31149** Ref: 95.045 95.515  
**HIP 31155** Ref: 86.130  
**HIP 31159** Ref: 95.445  
**HIP 31167** Ref: 95.684  
**HIP 31173** Ref: 95.313 95.684 91.096 91.175 66.020  
**HIP 31186** Ref: 87.121  
**HIP 31188** Ref: 95.087 95.122 94.043  
**HIP 31199** Ref: 95.693 86.124  
**HIP 31205** Ref: 95.090 95.445 95.704 94.036 94.148  
 94.259 94.423 93.211 92.118 91.102  
**HIP 31216** Ref: 95.478 95.523 95.684 95.690 89.034  
 87.141  
**HIP 31235** Ref: 95.042 95.077 95.342 94.049 94.212  
 94.411 94.450 91.102 87.141  
**HIP 31236** Comments: Possibly E type.  
**HIP 31241** Ref: 95.445  
**HIP 31266** Ref: 95.445  
**HIP 31290** Ref: 95.684  
**HIP 31306** Ref: 95.411 95.452 94.176 94.177 94.301  
 91.190 88.108 85.084 84.087 77.040 76.025 58.001  
**HIP 31348** Ref: 94.370 89.034  
**HIP 31353** Ref: 94.104  
**HIP 31361** Ref: 94.176 94.177 77.040 64.009 60.002  
**HIP 31362** Ref: 95.704 94.423 93.211  
**HIP 31363** Comments: Possible period  $p = 6.452d$ .  
**HIP 31365** Comments: Double star processed as single.  
**HIP 31379** Ref: 22.006 7.001  
**HIP 31383** Ref: 94.538 80.051 26.003 22.006  
**HIP 31385** Ref: 95.684  
**HIP 31400** Ref: 95.445 95.541 95.697 94.280 86.033  
 86.091  
**HIP 31404** Ref: 92.110 91.190 85.084 84.087 80.054  
 80.068 76.025 71.018 68.012 64.009 61.002 58.001  
 40.003 30.013 28.003 22.006 7.001  
**HIP 31411** Ref: 95.515  
**HIP 31416** Ref: 95.684  
**HIP 31481** Ref: 95.537 95.585 95.681 94.227 94.277  
 94.546 92.194 91.121 66.012  
**HIP 31484** Ref: 22.006  
**HIP 31539** Comments: Possibly EA type.  
**HIP 31567** Ref: 95.388  
**HIP 31579** Ref: 95.084 95.361 95.509 95.581 95.613  
 95.648 95.648 94.039 94.119 94.418 93.004 91.043  
 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 31583** Ref: 84.033  
**HIP 31592** Ref: 95.390 95.644 94.259 94.407  
**HIP 31617** Ref: 95.445  
**HIP 31624** Ref: 95.452 94.228 93.146 92.070 91.190  
 88.108 85.084 84.087 80.068 76.025 71.018 64.009  
**HIP 31646** Ref: 92.100 91.078  
 Comments: Possible period  $p = 1.2575d$ .  
**HIP 31650** Ref: 95.684  
**HIP 31665** Ref: 95.684  
**HIP 31681** Ref: 95.125 95.137 95.280 95.313 95.563  
 95.564 95.600 95.684 94.549 93.042  
**HIP 31685** Ref: 94.311 75.016  
**HIP 31688** Ref: 95.445  
**HIP 31695** Ref: 95.294 95.690 94.235  
**HIP 31710** Ref: 94.221  
**HIP 31711** Ref: 95.242 95.445 94.265  
**HIP 31719** Comments: Possible period  $p = 16.7d$ .  
**HIP 31733** Ref: 95.445  
**HIP 31737** Ref: 95.684 94.202 84.043 82.031  
**HIP 31739** Comments: Period could be double.  
**HIP 31758** Ref: 95.684  
**HIP 31766** Ref: 89.034  
**HIP 31771** Ref: 85.193 84.140 84.170  
**HIP 31789** Ref: 85.193 84.140 84.170  
**HIP 31827** Ref: 95.419  
**HIP 31832** Ref: 95.419  
**HIP 31859** Ref: 95.684  
**HIP 31874** Ref: 95.445  
**HIP 31876** Ref: 95.684  
**HIP 31886** Ref: 95.445  
**HIP 31905** Ref: 94.176 94.177 92.020 77.040 69.011  
**HIP 31922** Ref: 95.684  
**HIP 31939** Ref: 85.074  
 Comments: According to Ref 85.074 a confirmed  
 ELL type with  $p = 1.30406d$ .  
**HIP 31976** Ref: 95.693  
**HIP 31977** Ref: 95.445  
**HIP 31978** Ref: 95.388 95.470 95.571 94.309 94.314  
 87.141 30.013  
 Comments: Possible periods  $p = 2.311d$  and  
 $p = 297d$ . Other notes: D.  
**HIP 32000** Comments: Possibly EA type. Other notes: G.  
**HIP 32012** Comments: Possible period  $p = 2.265d$ .  
**HIP 32015** Ref: 96.006 95.268 95.430 95.694 94.003  
 94.047 93.118 91.093 91.179 91.188 89.144 88.040  
 88.111 87.105 85.027 82.078 81.086 65.005 64.011  
**HIP 32020** Ref: 95.684  
**HIP 32067** Ref: 95.388  
**HIP 32085** Comments: Possible period  $p = 2.985d$ . Other  
 notes: D.  
**HIP 32101** Comments: Possible period  $p = 1.1240d$ .  
**HIP 32104** Ref: 95.515 95.684  
**HIP 32115** Ref: 91.002 22.006  
**HIP 32119** Comments: Possible period  $p = 6.9013d$ .  
**HIP 32125** Ref: 94.406  
**HIP 32126** Ref: 95.558  
**HIP 32144** Ref: 95.684  
**HIP 32173** Ref: 94.209 94.407  
**HIP 32180** Ref: 91.190 85.084 84.087 83.108 77.040  
 71.018 61.005  
**HIP 32187** Comments: Possible period  $p = 8.896d$ .  
**HIP 32208** Ref: 95.445  
**HIP 32218** Comments: Possible period  $p = 8.19d$ .  
**HIP 32222** Ref: 95.445  
**HIP 32226** Ref: 95.704 94.423 93.126 93.211 91.102  
**HIP 32246** Ref: 95.419  
**HIP 32249** Ref: 95.390 94.407  
**HIP 32263** Comments: Possible alternative period  
 $p = 1.9071d$ .  
**HIP 32268** Ref: 95.684  
**HIP 32275** Comments: Possible period  $p = 20.53d$ .  
**HIP 32288** Ref: 94.406  
**HIP 32292** Ref: 95.063 95.704 94.198 94.423 93.211  
 91.102  
**HIP 32296** Ref: 95.684  
**HIP 32312** Ref: 94.202  
**HIP 32322** Ref: 95.399 95.445 94.056 94.084 93.050  
**HIP 32329** Ref: 94.174



- HIP 32339** Ref: 95.704 94.423 93.211 91.102  
**HIP 32349** Ref: 95.012 95.058 95.069 95.096 95.156  
 95.276 95.280 95.313 95.353 95.479 95.602 95.666  
 95.666 95.684 94.064 94.253 94.265 94.410 93.042  
**HIP 32362** Ref: 95.698 93.015  
**HIP 32374** Comments: Possibly EA type.  
**HIP 32375** Ref: 95.445  
**HIP 32385** Ref: 95.112  
 Comments: Two bursts recorded, lasting 200d and  
 spaced by 500d.  
**HIP 32393** Ref: 87.136  
**HIP 32397** Ref: 93.214 91.102  
**HIP 32404** Ref: 95.445 95.684  
**HIP 32406** Ref: 87.136  
**HIP 32408** Comments: Period could be double.  
**HIP 32411** Ref: 95.684  
**HIP 32414** Comments: Possibly EA type. An optical pair  
 with a fainter companion at 12 arcsec NW. Variability  
 possibly spurious.  
**HIP 32422** Ref: 87.136  
**HIP 32426** Ref: 87.136  
**HIP 32427** Comments: Literature type nor period  
 recognised. No other period found. Variations do  
 indicate possible E type.  
**HIP 32438** Ref: 95.684  
**HIP 32439** Ref: 95.386  
**HIP 32467** Ref: 87.136  
**HIP 32474** Ref: 95.684  
**HIP 32480** Ref: 94.407  
**HIP 32487** Ref: 95.704 94.423 93.211  
**HIP 32504** Ref: 94.045 91.053 85.175 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 32507** Comments: Possible period  $p = 32.2d$ .  
**HIP 32512** Ref: 95.588 89.031 88.020 86.141 74.036  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 32516** Ref: 95.452 94.176 94.177 86.002 77.040  
**HIP 32531** Comments: Possible period  $p = 56.5d$ , possible  
 alias as frequency is close to scanning-law frequency.  
**HIP 32533** Ref: 95.419 94.407  
**HIP 32537** Ref: 94.311  
**HIP 32539** Ref: 95.684  
**HIP 32549** Ref: 92.138 91.175 87.105 81.039 68.002  
**HIP 32558** Ref: 95.499  
 Comments: Possible period  $p = 6.0998d$ .  
**HIP 32562** Ref: 85.090  
**HIP 32572** Ref: 87.121  
**HIP 32578** Ref: 94.209 94.407 93.092  
**HIP 32602** Ref: 95.007 95.029 95.117 95.490 95.538  
 Comments: Single component SB, orbital period  
 $p = 1.54d$ ; X-ray pulsator  $p = 13s$ , (IAUC 6277, 1995).  
**HIP 32617** Ref: 95.445  
**HIP 32621** Ref: 95.341 92.149  
**HIP 32627** Ref: 95.499 93.093 93.095  
 Comments: Possible period  $p = 34.15d$ .  
**HIP 32647** Comments: Possible period  $p = 4.479d$ .  
**HIP 32650** Ref: 95.445  
**HIP 32653** Comments: Possible period  $p = 8.677d$ .  
**HIP 32671** Comments: Possible period  $p = 150d$ .  
**HIP 32675** Ref: 95.697 71.018 64.009 61.002 58.001  
**HIP 32682** Ref: 95.704 94.423 94.431 93.211 91.102  
**HIP 32740** Ref: 92.162 85.139  
**HIP 32744** Ref: 95.684  
**HIP 32745** Ref: 95.445  
**HIP 32753** Ref: 94.028 93.048 93.062  
**HIP 32758** Comments: Possible period  $p = 9.480d$ .  
**HIP 32759** Ref: 94.198 94.400 86.087  
**HIP 32761** Ref: 95.081 94.071 93.043 92.037 87.140  
**HIP 32765** Ref: 95.399 94.056 93.050  
**HIP 32768** Ref: 95.062 93.015 93.092  
**HIP 32775** Ref: 95.445  
**HIP 32782** Ref: 95.279  
**HIP 32791** Ref: 95.412 95.414 95.712 81.053 75.022  
 75.030 22.006  
**HIP 32810** Ref: 95.704 94.024 94.198 94.423 93.211  
 91.102  
**HIP 32815** Ref: 95.693  
 Comments: Possible period  $p = 4.4176d$ .  
**HIP 32838** Ref: 95.320 95.321 95.445 95.684 94.202  
 91.053 84.043 75.007 74.002  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 32851** Ref: 94.056 94.188 93.050  
**HIP 32854** Ref: 95.452 85.084 84.087 81.076 76.025  
 71.018 64.009 61.005 58.001  
**HIP 32876** Ref: 95.693  
**HIP 32900** Ref: 92.076 91.096 86.047  
**HIP 32915** Ref: 94.228 93.190 85.084 84.087 71.018  
 64.009 61.005  
**HIP 32918** Ref: 95.445  
**HIP 32921** Ref: 95.684  
**HIP 32923** Ref: 95.263 94.211 93.257 91.160 87.141  
 Comments: Possible period  $p = 1.925d$ .  
**HIP 32931** Ref: 95.684  
**HIP 32935** Ref: 95.445  
**HIP 32936** Ref: 95.445  
**HIP 32938** Ref: 95.445  
**HIP 32965** Ref: 81.036 77.023  
**HIP 32984** Ref: 94.410  
**HIP 33006** Ref: 95.445  
**HIP 33014** Ref: 95.452 93.146 90.004 76.025 71.018  
 58.001  
**HIP 33016** Ref: 95.445  
**HIP 33018** Ref: 95.684  
**HIP 33024** Ref: 95.445 95.684  
**HIP 33035** Ref: 95.279 95.693  
**HIP 33041** Ref: 95.347 95.684 94.191 90.024  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 33048** Ref: 93.015  
**HIP 33056** Ref: 95.684 94.209  
**HIP 33059** Ref: 95.509 94.418  
**HIP 33062** Ref: 95.279  
**HIP 33063** Comments: Possible period  $p = 59.22d$ .  
**HIP 33070** Ref: 95.279  
**HIP 33072** Ref: 95.386  
**HIP 33077** Ref: 95.445 95.684  
**HIP 33079** Ref: 95.684  
**HIP 33081** Ref: 95.704 94.423 93.211  
**HIP 33092** Ref: 95.279 95.693 94.019 94.205 92.061  
 81.022 80.029 79.003 75.016  
**HIP 33093** Ref: 93.073  
**HIP 33094** Ref: 95.386 95.445  
**HIP 33100** Comments: Possible period  $p = 117.2d$ .  
**HIP 33107** Comments: Possibly EA type.  
**HIP 33119** Ref: 95.693  
**HIP 33126** Ref: 95.684 95.704 94.423 93.211 91.102  
**HIP 33139** Ref: 95.445  
**HIP 33152** Ref: 95.387 94.259 94.264  
**HIP 33154** Ref: 95.684  
**HIP 33160** Ref: 95.419 94.259 94.407  
**HIP 33163** Ref: 93.033 92.076 30.013 22.006 7.001  
**HIP 33165** Ref: 95.111 95.279 95.301 95.388 95.454  
 95.455 95.693 95.699 95.704 94.015 94.022 94.231  
 94.288 94.408 94.423 93.114 93.211 92.004 91.102  
 89.051 84.173 81.102 74.018  
**HIP 33173** Comments: Possible period  $p = 400d$ .  
**HIP 33184** Ref: 95.445 95.684 91.102  
**HIP 33189** Ref: 95.309  
**HIP 33200** Comments: Possible GCAS type.  
**HIP 33202** Ref: 95.684  
**HIP 33210** Ref: 95.445 93.043 91.102  
**HIP 33214** Ref: 95.558  
**HIP 33215** Ref: 95.279  
**HIP 33221** Ref: 95.087 95.122 95.433 95.445 94.043  
**HIP 33225** Ref: 91.112 85.173  
**HIP 33226** Ref: 94.410  
**HIP 33229** Ref: 95.445  
**HIP 33233** Comments: Possible period  $p = 0.8992d$ .  
**HIP 33237** Ref: 91.102 85.177 80.021 80.041 77.019

- HIP 33243** Ref: 95.445 93.211 91.102  
**HIP 33248** Ref: 95.684  
**HIP 33257** Ref: 95.445  
**HIP 33261** Comments: Various alternative, related periods also possible.  
**HIP 33269** Ref: 95.347 95.684 94.191 94.286 93.015 90.024 83.078  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 33294** Ref: 95.279  
**HIP 33297** Ref: 95.684  
**HIP 33302** Ref: 94.289  
**HIP 33309** Ref: 95.279  
**HIP 33316** Ref: 95.279  
**HIP 33324** Ref: 95.087 95.122 95.399 95.445 94.043 94.056 93.050  
**HIP 33328** Ref: 95.445  
**HIP 33345** Ref: 95.419 90.108  
**HIP 33347** Ref: 95.279 95.523 95.693  
**HIP 33357** Ref: 94.204  
 Comments: Possible period  $p = 5.35d$ .  
**HIP 33375** Ref: 94.202  
**HIP 33435** Ref: 86.103  
**HIP 33436** Ref: 95.388 95.693 79.004  
**HIP 33441** Ref: 95.230 95.692 94.196 82.043 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 33447** Ref: 95.279  
**HIP 33450** Ref: 22.006  
**HIP 33453** Comments: Possible period  $p = 13.52d$ .  
**HIP 33465** Ref: 95.445 95.684  
**HIP 33478** Ref: 95.684  
**HIP 33485** Ref: 95.684 94.209  
**HIP 33487** Comments: Possible period  $p = 0.78503d$  or related.  
**HIP 33493** Comments: Possible period  $p = 0.85207d$  or multiple.  
**HIP 33502** Ref: 95.704 94.423 93.211 91.102  
**HIP 33520** Ref: 95.452 94.203 93.146 90.004 76.025 71.018 64.009 58.001  
**HIP 33523** Ref: 95.279  
**HIP 33530** Comments: Possible period  $p = 71.02d$ .  
**HIP 33550** Ref: 94.196 58.001 22.006 7.001  
**HIP 33560** Ref: 95.445  
**HIP 33575** Ref: 95.279  
**HIP 33577** Ref: 95.445 93.211 91.102  
**HIP 33579** Ref: 95.058 95.096 95.313 95.388 95.523 95.533 95.592 95.602 95.677 94.055 94.265  
**HIP 33582** Ref: 95.445  
**HIP 33583** Comments: Possible period  $p = 6.11d$ .  
**HIP 33584** Ref: 95.684  
**HIP 33588** Ref: 95.445  
**HIP 33595** Ref: 95.432 93.050  
**HIP 33614** Ref: 94.407  
**HIP 33616** Ref: 95.347 94.191 90.024 81.099  
 Comments: Possible period  $p = 0.11723d$ .  
**HIP 33622** Ref: 95.558  
**HIP 33643** Ref: 95.222 94.202 91.053 84.043 83.059  
 Comments: Period from Ref 83.059 confirmed.  
**HIP 33673** Ref: 95.279  
 Comments: Possible period  $p = 1.4956d$ .  
**HIP 33676** Ref: 95.693  
**HIP 33715** Ref: 95.419 95.445  
**HIP 33717** Ref: 95.642  
**HIP 33719** Ref: 95.445  
**HIP 33723** Ref: 95.388  
**HIP 33724** Ref: 95.445  
**HIP 33752** Ref: 87.121  
**HIP 33754** Ref: 95.693  
**HIP 33760** Ref: 95.445  
**HIP 33774** Ref: 95.445  
**HIP 33779** Comments: Possible period  $p = 1.375d$ .  
**HIP 33791** Ref: 95.452 94.203 93.146 76.025 71.018 64.009 58.001
- HIP 33794** Ref: 94.374 93.211 92.011 92.162 91.102 91.140  
**HIP 33817** Ref: 95.445  
**HIP 33823** Ref: 95.684  
**HIP 33824** Ref: 95.303 95.499 95.598 88.020 22.006 7.001  
**HIP 33836** Ref: 95.388  
**HIP 33841** Ref: 95.279  
**HIP 33854** Ref: 95.684  
**HIP 33856** Ref: 95.625 94.264  
**HIP 33868** Ref: 95.342 95.693 94.004 94.030 94.211 94.212 91.052  
**HIP 33869** Ref: 94.406  
**HIP 33873** Ref: 93.211 91.102  
**HIP 33874** Ref: 95.411 95.447 95.452 94.301 93.146 92.020 86.002 76.026  
**HIP 33875** Ref: 93.126  
**HIP 33927** Ref: 89.130  
**HIP 33929** Comments: Possible period  $p = 26.18d$ .  
**HIP 33945** Comments: Possible period  $p = 56.31d$ .  
**HIP 33953** Ref: 94.212 92.128 91.096 83.026 81.029 74.025  
**HIP 33966** Ref: 89.070  
**HIP 33971** Ref: 94.019 94.205 92.061 84.033 81.022  
**HIP 33977** Ref: 95.279  
**HIP 34002** Ref: 95.684  
**HIP 34003** Ref: 95.268 95.430 94.047 93.118 92.111 89.060 87.004 85.093 80.030 79.043 78.031  
**HIP 34017** Ref: 95.386 94.256  
**HIP 34032** Ref: 95.445  
**HIP 34038** Ref: 95.137 95.294 95.391  
 Comments: Ref 95.294 pulsating star with period  $p = 72d$  or  $p = 144d$ .  
**HIP 34042** Ref: 95.031 95.042 95.149 95.342 95.408 95.421 95.426 95.605 95.654 94.004 94.025 94.030 94.211 94.250 94.368 94.411 93.101 93.211 91.089 91.102 30.012  
 Comments: Possible period  $p = 1.8776d$ .  
**HIP 34049** Ref: 91.053 84.043 81.036  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 34052** Ref: 95.445  
**HIP 34065** Ref: 95.445 94.084  
**HIP 34066** Ref: 93.211 91.102  
**HIP 34070** Ref: 94.406  
**HIP 34088** Ref: 95.419 95.478 95.561 94.176 94.177 94.293 94.375 94.376 94.377 92.110 92.205 91.190 88.143 86.141 85.084 85.222 84.087 83.086 82.039 82.086 81.103 80.054 71.018 68.012 64.009 51.001 40.003 35.001 22.006 7.001  
**HIP 34101** Ref: 95.389 95.392 94.216  
 Comments: No confirmation of period from Ref 95.389.  
**HIP 34105** Ref: 94.165 93.127 93.211 91.053 91.102 85.042 85.045 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 34116** Ref: 95.042 95.342 95.693 94.030 94.211 94.212 94.367 91.102 91.150  
**HIP 34122** Comments: Possible period  $p = 2.693d$ .  
**HIP 34133** Ref: 95.693  
**HIP 34135** Ref: 95.693  
**HIP 34159** Ref: 95.693  
**HIP 34168** Ref: 94.209  
**HIP 34178** Ref: 95.693  
**HIP 34182** Ref: 84.033  
**HIP 34217** Ref: 95.684  
**HIP 34221** Ref: 95.693  
 Comments: Period has decreased.  
**HIP 34222** Comments: Possible period  $p = 121.7d$ .  
**HIP 34230** Ref: 85.168  
**HIP 34234** Ref: 95.693 75.016  
 Comments: Possible period  $p = 0.2314d$ .  
**HIP 34236** Ref: 95.693  
**HIP 34248** Ref: 93.269  
 Comments: Possible confirmation of period from Ref 93.269.

- HIP 34285** Ref: 95.445  
**HIP 34297** Ref: 95.580 95.693 94.384  
**HIP 34299** Ref: 80.049  
**HIP 34301** Ref: 95.112 95.693 75.016  
**HIP 34302** Comments: Wrongly identified with VV CMA in Hipparcos Input Catalogue. Other notes: G.  
**HIP 34310** Ref: 94.196 22.006  
**HIP 34326** Ref: 95.309 94.039 94.196 93.004 91.043 22.006  
**HIP 34338** Ref: 94.028 93.048 93.062  
**HIP 34343** Comments: Possible period  $p = 8.030d$ .  
**HIP 34351** Comments: Possible period  $p = 2.6362d$ .  
**HIP 34356** Ref: 95.303 95.499 95.598 93.093 93.095 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 34357** Ref: 93.211 91.102  
**HIP 34360** Ref: 95.112 95.693 94.198  
**HIP 34364** Ref: 95.693  
**HIP 34385** Comments: Possible period  $p = 1.05615d$ .  
**HIP 34413** Ref: 95.309 95.361 95.509 94.418 91.102 22.006 7.001  
**HIP 34421** Ref: 95.411 95.447 95.452 95.580 94.176 94.177 93.146 92.020 91.190 88.108 86.002 82.035 77.040  
**HIP 34423** Ref: 95.445  
**HIP 34431** Ref: 94.487 92.076 91.096  
**HIP 34443** Ref: 95.693  
**HIP 34444** Ref: 95.313 95.478  
**HIP 34463** Comments: Possible periods  $p = 1.0937d$  and  $p = 207.0d$ .  
**HIP 34474** Ref: 95.509 94.418 88.020 22.006 7.001  
**HIP 34489** Ref: 95.515  
**HIP 34495** Ref: 94.311  
**HIP 34527** Ref: 81.076 76.025 71.018 64.009 61.005 58.001  
**HIP 34536** Ref: 95.388 95.515 95.693 94.367 94.367  
**HIP 34541** Ref: 92.188 91.161  
**HIP 34561** Ref: 95.693  
**HIP 34568** Ref: 95.693  
**HIP 34569** Ref: 95.693  
**HIP 34603** Ref: 94.265 94.267 94.410  
**HIP 34611** Ref: 95.029  
**HIP 34616** Ref: 95.693  
**HIP 34617** Ref: 95.684  
**HIP 34619** Ref: 95.693  
**HIP 34622** Ref: 94.407  
**HIP 34659** Comments: Probably EA type.  
**HIP 34693** Ref: 95.419 94.180 94.407  
**HIP 34694** Ref: 95.095  
**HIP 34722** Ref: 95.684  
**HIP 34724** Ref: 95.347 95.684 94.191 90.024 83.020  
**HIP 34739** Ref: 95.445  
**HIP 34743** Ref: 95.378 95.697 94.236 94.409 93.111 93.128 69.011 66.008 22.006  
**HIP 34752** Ref: 95.419  
**HIP 34753** Ref: 95.642  
**HIP 34758** Ref: 95.684  
**HIP 34768** Ref: 95.684  
**HIP 34769** Ref: 95.684 93.057  
**HIP 34782** Ref: 95.445  
**HIP 34789** Ref: 95.704 94.423 93.211 91.102  
**HIP 34795** Ref: 95.697 94.280  
**HIP 34798** Ref: 91.102  
**HIP 34802** Ref: 84.043  
**HIP 34814** Ref: 95.347 95.445 95.684 94.191 91.040 82.003  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 34832** Ref: 95.693  
**HIP 34834** Ref: 93.015  
**HIP 34852** Ref: 95.693  
**HIP 34859** Ref: 95.509 94.418 30.013  
 Comments: Ephemeris based on AAVSO data.  
**HIP 34890** Ref: 95.445  
**HIP 34895** Ref: 92.079 90.004 76.025 61.005  
 Comments: About 1 mag brighter than expected.  
**HIP 34899** Ref: 91.053 84.043 81.036  
**HIP 34909** Ref: 95.419 94.542  
 Comments: Possible period  $p = 53d$ .  
**HIP 34912** Comments: Possible period  $p = 3.277d$ .  
**HIP 34918** Ref: 95.700  
**HIP 34922** Ref: 94.379 22.006 7.001  
 Comments: Amplitude smaller than in Hipparcos Input Catalogue.  
**HIP 34924** Ref: 95.279 95.515 95.693 95.704 94.357 93.211 91.102  
**HIP 34929** Ref: 91.053 85.042 84.043  
**HIP 34937** Ref: 85.074  
 Comments: Not ELL according to Ref 85.074.  
**HIP 34979** Comments: Possible period  $p = 20.408d$ .  
**HIP 34981** Ref: 95.279 95.704 94.179 94.198 94.211 94.423 94.484 93.211 92.162 91.102 91.185 87.020 81.014  
**HIP 34982** Ref: 91.102  
**HIP 34986** Ref: 95.693  
**HIP 34995** Ref: 91.053 84.043  
**HIP 34999** Ref: 95.693  
**HIP 35025** Ref: 94.542  
**HIP 35026** Ref: 95.693  
**HIP 35029** Ref: 93.127 92.044 91.053 85.037 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 35037** Ref: 95.063 95.232 95.267 95.325 94.179 94.198 94.403 94.423 93.211 91.102 87.020  
 Comments: Start of burst detected towards end of mission.  
**HIP 35044** Ref: 95.445  
**HIP 35045** Ref: 95.303 93.093 93.095  
**HIP 35083** Ref: 91.102  
**HIP 35119** Ref: 91.114  
 Comments: The variable BK CMi is located 1.0 arcmin N. Other notes: G.  
**HIP 35120** Ref: 95.419  
 Comments: Possible period  $p = 2.058d$ .  
**HIP 35132** Ref: 95.684  
**HIP 35136** Ref: 95.383 95.432 95.644 94.256 94.407 93.050  
**HIP 35139** Ref: 95.386 95.445  
**HIP 35151** Ref: 95.445  
**HIP 35152** Ref: 94.542  
**HIP 35180** Ref: 95.563 95.684  
**HIP 35181** Ref: 95.445  
**HIP 35187** Ref: 91.096 85.044 85.055  
**HIP 35197** Ref: 95.268 95.430 94.047 93.118 22.006  
**HIP 35210** Ref: 94.259  
**HIP 35212** Ref: 88.108 85.054 85.084 84.087 81.076 76.025 64.009 61.002 58.001  
**HIP 35241** Ref: 95.445 95.684  
**HIP 35247** Comments: Possible period  $p = 3.484d$ .  
**HIP 35261** Ref: 94.406  
**HIP 35264** Ref: 93.043  
 Comments: Possible period  $p = 1.0667d$ .  
**HIP 35281** Ref: 94.236 92.214  
**HIP 35290** Ref: 95.693  
**HIP 35296** Ref: 95.445  
**HIP 35300** Comments: Possibly double the period.  
**HIP 35326** Ref: 95.704 94.423 93.211 91.102  
**HIP 35341** Ref: 95.684  
**HIP 35345** Ref: 95.684  
**HIP 35350** Ref: 95.684 94.209  
**HIP 35355** Ref: 95.693  
**HIP 35363** Ref: 95.063 95.693 94.403  
**HIP 35375** Ref: 95.693  
**HIP 35378** Ref: 95.678 95.693 94.408 74.018  
**HIP 35384** Ref: 95.563 95.684  
**HIP 35406** Ref: 95.112 85.074  
 Comments: Not ELL type according to Ref 85.074.  
**HIP 35412** Ref: 95.279 95.388 95.693 94.373 91.102 88.019 81.005 81.041

- HIP 35415** Ref: 95.279 95.571 94.314 89.034  
Comments: New period and reference phase also fit data from Ref 89.034.
- HIP 35421** Ref: 95.693
- HIP 35427** Ref: 93.043
- HIP 35428** Comments: Possibly EA type.
- HIP 35442** Ref: 95.445 95.684 95.693
- HIP 35447** Comments: Probably EA type.
- HIP 35463** Ref: 95.445
- HIP 35469** Ref: 95.445
- HIP 35476** Ref: 95.704 94.423 93.211 91.102
- HIP 35487** Ref: 95.445 92.166 91.155 85.071 79.033 65.005 64.013 24.004 22.006 7.001
- HIP 35488** Ref: 95.077 95.161 95.179 95.704 94.030 94.049 94.211 94.423 93.013 93.211 91.102  
Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable.  
Other notes: D.
- HIP 35493** Ref: 95.693  
Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable.  
Other notes: D.
- HIP 35509** Ref: 95.445
- HIP 35525** Comments: Possible period  $p = 5.333d$ .
- HIP 35548** Ref: 95.684
- HIP 35550** Ref: 95.583 95.684 94.265 93.015
- HIP 35561** Ref: 95.693
- HIP 35564** Ref: 94.265
- HIP 35567** Ref: 93.211 91.102
- HIP 35584** Ref: 95.297 95.697 94.236 94.282 94.286 82.054 77.031
- HIP 35594** Ref: 95.693
- HIP 35600** Ref: 95.268 95.430 94.047 94.145 94.269 93.073 93.092 93.118 92.081 89.060
- HIP 35611** Ref: 95.704 93.211 91.102 85.040
- HIP 35617** Ref: 95.361 95.509 95.514 94.163 94.418  
Comments: About 3 mag brighter than in Hipparcos Input Catalogue. Misidentification?
- HIP 35633** Ref: 95.445
- HIP 35642** Ref: 95.445
- HIP 35643** Ref: 95.684
- HIP 35651** Ref: 95.445
- HIP 35658** Ref: 93.092
- HIP 35664** Comments: Possible period  $p = 35.76d$ .
- HIP 35665** Ref: 94.203 85.084 84.087 76.025 64.009 58.001
- HIP 35667** Ref: 95.378 95.379 95.401 95.697 94.123 94.236 94.409 93.111 92.150 90.052 69.011 66.008 30.013 22.006 7.001
- HIP 35676** Ref: 91.053 85.042 84.043
- HIP 35681** Ref: 95.762 93.024 92.162 90.119 78.032 72.008 71.018 68.004 64.009 58.003 40.003 30.013 22.006
- HIP 35685** Ref: 89.070
- HIP 35692** Ref: 85.042 84.043
- HIP 35699** Ref: 94.542
- HIP 35707** Ref: 93.071 93.249
- HIP 35708** Ref: 88.108 85.084 84.087 76.025 71.018 64.009 61.005 58.001
- HIP 35718** Ref: 95.445
- HIP 35735** Ref: 95.684
- HIP 35745** Comments: Possibly EA type.
- HIP 35746** Ref: 95.332 92.011
- HIP 35749** Ref: 95.445 93.015
- HIP 35769** Ref: 95.693  
Comments: Semi-periodic ( $p = 210d$ ) bursts.
- HIP 35783** Ref: 95.684
- HIP 35785** Ref: 95.684
- HIP 35793** Ref: 95.057 95.065 95.148 95.231 95.319 95.471 95.491 95.518 95.530 95.581 95.680 94.273 94.347 85.007
- HIP 35795** Ref: 95.112  
Comments: Possible period  $p = 5.298d$ .
- HIP 35808** Ref: 95.701
- HIP 35810** Ref: 94.374  
Comments: Possible period  $p = 14.16d$ .
- HIP 35812** Ref: 88.020 74.036 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 35814** Ref: 95.701
- HIP 35829** Ref: 95.693
- HIP 35830** Ref: 91.053 84.043
- HIP 35839** Ref: 95.693
- HIP 35842** Ref: 95.684
- HIP 35872** Ref: 95.445
- HIP 35886** Ref: 95.693
- HIP 35904** Ref: 95.232 95.279 95.313
- HIP 35915** Ref: 92.179
- HIP 35920** Ref: 95.704 94.423 93.211 91.102
- HIP 35933** Ref: 94.403
- HIP 35941** Ref: 95.684
- HIP 35951** Ref: 94.198 94.403  
Comments: Several bursts during mission.
- HIP 35955** Ref: 95.693
- HIP 35960** Comments: Disturbed by component at 7 arcsec.
- HIP 35965** Ref: 95.445
- HIP 35975** Ref: 95.684 95.693
- HIP 35987** Ref: 95.684 94.209
- HIP 35997** Ref: 95.693
- HIP 35998** Ref: 95.445 95.684
- HIP 36017** Ref: 95.445 95.523 95.684 95.690
- HIP 36024** Ref: 95.704 94.423 93.211 91.102
- HIP 36031** Ref: 95.701
- HIP 36041** Ref: 94.209
- HIP 36042** Ref: 95.704 94.423 93.211 91.102
- HIP 36043** Ref: 93.081  
Comments: Ephemeris based on AAVSO data.
- HIP 36046** Ref: 95.390 94.175 94.216 94.407 93.015
- HIP 36055** Ref: 95.445
- HIP 36059** Ref: 95.701
- HIP 36068** Ref: 94.211
- HIP 36088** Ref: 95.482 94.228 92.079 76.025 71.018 64.009 61.002
- HIP 36093** Comments: Period is uncertain.
- HIP 36123** Ref: 95.684
- HIP 36125** Ref: 95.039 95.411 95.452 95.693 94.299 93.212 89.171 85.054 81.076 64.009 61.002
- HIP 36140** Ref: 95.684
- HIP 36145** Ref: 95.684
- HIP 36152** Ref: 95.432 94.256 93.050
- HIP 36156** Ref: 95.684
- HIP 36168** Ref: 95.279 95.693 95.704 94.198 94.400 94.423 93.211 91.102
- HIP 36174** Ref: 95.445 94.188
- HIP 36186** Ref: 95.684
- HIP 36188** Ref: 95.701 94.198
- HIP 36191** Ref: 95.701
- HIP 36205** Ref: 95.701
- HIP 36209** Ref: 87.039 87.044 22.006
- HIP 36210** Ref: 95.445
- HIP 36224** Ref: 94.406
- HIP 36232** Comments: Possible periods  $p = 3.87372d$  and  $p = 13.28904d$ .
- HIP 36236** Ref: 95.704 94.423 93.211 91.102
- HIP 36238** Ref: 94.206
- HIP 36250** Ref: 95.693
- HIP 36251** Ref: 93.043  
Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable.  
Other notes: D.
- HIP 36253** Ref: 95.701
- HIP 36258** Ref: 95.684 95.704 94.423 93.211 91.102 78.025
- HIP 36265** Ref: 95.684 95.701
- HIP 36269** Ref: 95.445 95.697
- HIP 36275** Ref: 95.701
- HIP 36284** Ref: 95.419 94.407 93.092
- HIP 36288** Ref: 95.303 95.499 95.581 93.093 93.095 92.200 22.006 7.001

- HIP 36314** Ref: 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 36334** Comments: Possible period  $p = 10.64d$ .
- HIP 36340** Ref: 94.209
- HIP 36348** Ref: 95.194 94.001 94.028 93.048 93.062
- HIP 36363** Ref: 94.248 94.265
- HIP 36364** Ref: 95.701
- HIP 36366** Ref: 95.338 95.379 95.684
- HIP 36377** Ref: 93.092
- HIP 36381** Ref: 95.347 94.191  
Comments: Possible confirmation of period from Ref 94.191.
- HIP 36384** Ref: 95.701
- HIP 36386** Comments: Possible period  $p = 6.098d$ .
- HIP 36389** Ref: 95.701
- HIP 36393** Ref: 95.684
- HIP 36394** Ref: 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 36395** Ref: 95.445 94.257 94.423 93.211 91.102
- HIP 36399** Ref: 95.445
- HIP 36404** Ref: 95.693
- HIP 36409** Comments: Possible period  $p = 1.0443d$ .
- HIP 36419** Ref: 94.202
- HIP 36423** Ref: 95.692 88.020 82.043 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 36429** Ref: 94.206
- HIP 36431** Ref: 95.338 95.478 95.523 95.684 95.690 95.693 89.034  
Comments: Possible period  $p = 3.0420d$ .
- HIP 36459** Ref: 95.693
- HIP 36473** Ref: 95.701
- HIP 36486** Ref: 95.701
- HIP 36487** Ref: 95.701
- HIP 36491** Ref: 95.122 94.043
- HIP 36497** Ref: 94.249
- HIP 36499** Ref: 95.701
- HIP 36500** Ref: 90.035
- HIP 36513** Ref: 95.122 95.235 95.445 94.043 94.270 94.389
- HIP 36515** Ref: 95.445
- HIP 36518** Ref: 95.701
- HIP 36521** Ref: 95.137 95.263 94.093 94.406 92.162 73.013 30.012 22.006 7.001
- HIP 36526** Ref: 95.704 94.423 93.211
- HIP 36535** Ref: 95.701
- HIP 36537** Ref: 95.587 94.202  
Comments: Ref 95.587: Rotation period  $p = 7.7d$ , rapidly oscillating A star.
- HIP 36540** Ref: 95.693 95.701
- HIP 36545** Comments: Possible period  $p = 8.3d$ .
- HIP 36547** Ref: 92.162
- HIP 36565** Ref: 95.445
- HIP 36586** Ref: 95.701
- HIP 36590** Ref: 89.070
- HIP 36596** Ref: 95.701
- HIP 36599** Ref: 95.701
- HIP 36608** Ref: 85.074 77.029  
Comments: Type in contradiction with conclusion of Ref 85.074.
- HIP 36617** Ref: 92.079 90.004 76.025 71.018 64.009 61.002 58.001
- HIP 36621** Ref: 95.701
- HIP 36623** Comments: Sudden changes in brightness observed.
- HIP 36624** Ref: 95.684
- HIP 36626** Ref: 94.267
- HIP 36636** Ref: 95.701
- HIP 36640** Ref: 95.399 95.432 95.445 94.056 94.095 94.188 93.050
- HIP 36641** Ref: 95.684
- HIP 36643** Ref: 95.704 94.423 93.211 91.102
- HIP 36646** Ref: 95.693
- HIP 36655** Ref: 95.693
- HIP 36659** Ref: 95.445
- HIP 36666** Ref: 95.452 95.693 94.203 94.259 94.423 93.149 93.211 71.018 64.009 61.002 61.005
- HIP 36668** Ref: 95.693
- HIP 36669** Ref: 95.119 95.692 94.167 94.290 94.413 93.081 93.192 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 36675** Ref: 95.588 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 36683** Ref: 95.730 93.178 92.135 82.028 81.017 71.005 30.013
- HIP 36685** Ref: 95.452 95.482 93.190 92.070 85.084 84.087 76.025 71.018 64.009 61.002 58.001 40.003 28.003 22.006 7.001
- HIP 36687** Ref: 95.445
- HIP 36693** Ref: 95.701
- HIP 36700** Ref: 95.701
- HIP 36706** Ref: 95.388 95.693 94.189
- HIP 36707** Ref: 95.693
- HIP 36721** Ref: 95.445 95.684
- HIP 36723** Ref: 95.445 95.684 95.701
- HIP 36727** Ref: 95.693
- HIP 36731** Ref: 94.423 93.211
- HIP 36746** Comments: Possible period  $p = 1.2666d$ .
- HIP 36750** Ref: 95.697 94.191 90.024 86.001 82.041 73.024  
Comments: Period from Ref 94.191 confirmed.
- HIP 36756** Ref: 95.693
- HIP 36760** Ref: 95.684 94.206
- HIP 36762** Ref: 85.184
- HIP 36773** Ref: 95.419 94.423 93.150 93.211 92.031 92.047 92.073 91.102  
Comments: Possible period  $p = 117.4d$ .
- HIP 36774** Ref: 95.445
- HIP 36778** Ref: 95.693 94.198
- HIP 36795** Ref: 95.701 94.056 93.050
- HIP 36807** Ref: 95.445
- HIP 36808** Ref: 95.701
- HIP 36812** Ref: 95.684 95.701
- HIP 36817** Ref: 94.248
- HIP 36818** Ref: 95.445
- HIP 36830** Ref: 95.704 94.423 93.211 91.102
- HIP 36836** Ref: 94.406 94.423 93.211 91.102
- HIP 36837** Ref: 95.684
- HIP 36847** Ref: 95.701
- HIP 36848** Ref: 95.704 94.423 93.211 91.102
- HIP 36850** Ref: 95.064 95.240 95.684 94.313 94.420
- HIP 36869** Ref: 95.684 95.701
- HIP 36881** Ref: 95.701
- HIP 36889** Ref: 95.701
- HIP 36896** Ref: 95.694 94.206
- HIP 36902** Ref: 95.701
- HIP 36917** Ref: 95.704 94.423 93.211 91.102
- HIP 36922** Ref: 95.701
- HIP 36933** Ref: 95.701
- HIP 36936** Ref: 94.188
- HIP 36945** Comments: Possible period  $p = 34.94d$ .
- HIP 36947** Ref: 95.701
- HIP 36949** Ref: 95.693
- HIP 36962** Ref: 95.419 95.694 94.204 94.407 94.542
- HIP 36965** Ref: 95.684
- HIP 36966** Ref: 95.701
- HIP 36977** Ref: 95.445
- HIP 36979** Ref: 95.701
- HIP 36981** Comments: Possible period  $p = 2.0406d$ .
- HIP 36983** Comments: Possible period  $p = 19.11d$ .
- HIP 36989** Ref: 94.246
- HIP 36992** Ref: 95.343 93.073 93.092 93.118 92.066  
Comments: Confirmation of period from Ref 92.066.
- HIP 37001** Ref: 95.701
- HIP 37016** Ref: 95.701 94.549
- HIP 37017** Ref: 95.117 95.693
- HIP 37022** Comments: The variable BE CMi is located 33 arcsec NW. Other notes: G.
- HIP 37024** Ref: 95.701
- HIP 37031** Ref: 95.445

- HIP 37034** Ref: 95.343  
**HIP 37036** Ref: 95.024 95.701 94.019 94.205 92.061  
 81.022 79.003  
 Comments: Possible periods  $p = 0.162869d$  and  $p = 0.1751d$ .  
**HIP 37039** Ref: 95.693  
**HIP 37048** Ref: 95.701  
**HIP 37055** Ref: 95.343  
**HIP 37074** Ref: 95.515 95.629 94.357 83.012  
**HIP 37080** Ref: 95.701  
**HIP 37088** Ref: 95.338 95.698 94.289 93.015  
**HIP 37089** Ref: 95.445 95.684 95.693  
**HIP 37097** Ref: 95.701  
**HIP 37113** Ref: 95.701  
**HIP 37121** Ref: 94.406  
**HIP 37127** Ref: 95.704 94.423 93.211 91.102  
**HIP 37132** Ref: 95.701  
**HIP 37140** Ref: 95.684  
**HIP 37165** Ref: 95.684  
**HIP 37169** Ref: 95.693  
**HIP 37173** Ref: 86.042  
**HIP 37174** Ref: 95.039 95.411 95.445 95.448 95.452  
 92.110 89.154 86.002 85.054  
**HIP 37185** Ref: 95.701  
**HIP 37197** Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable. Other notes: D.  
**HIP 37207** Ref: 95.452 95.482 92.070 92.079 83.090  
 76.025 71.018 64.009 61.002 58.001  
**HIP 37209** Ref: 95.558  
**HIP 37229** Ref: 94.229  
**HIP 37232** Ref: 95.701  
**HIP 37240** Ref: 95.445 95.697  
**HIP 37244** Ref: 95.701  
**HIP 37248** Ref: 91.053 85.042 85.045 84.043  
**HIP 37261** Ref: 95.701  
**HIP 37264** Ref: 95.701  
**HIP 37265** Ref: 94.289 93.015  
**HIP 37269** Ref: 95.684  
**HIP 37279** Ref: 95.044 95.054 95.064 95.120 95.193  
 95.224 95.295 95.299 95.308 95.313 95.379 95.399  
 95.432 95.479 95.524 95.543 95.586 95.602 95.607  
 95.616 95.658 95.671 95.683 95.691 95.698 95.701  
 95.777 94.056 94.174 94.243 94.257 94.265 94.319  
 94.410 93.050  
**HIP 37285** Ref: 95.701  
**HIP 37293** Ref: 95.704 94.423 93.211 91.102  
**HIP 37297** Ref: 94.248  
**HIP 37300** Ref: 95.062  
**HIP 37313** Ref: 95.701  
**HIP 37334** Ref: 95.693  
**HIP 37335** Ref: 95.445 94.188 94.280  
**HIP 37339** Ref: 95.385 95.684  
**HIP 37343** Comments: Possible period  $p = 1.3846d$ .  
**HIP 37349** Ref: 95.445  
**HIP 37351** Ref: 95.701  
**HIP 37380** Ref: 95.701  
**HIP 37394** Ref: 95.445 95.684  
**HIP 37401** Ref: 95.701  
**HIP 37405** Ref: 95.701  
**HIP 37408** Ref: 95.701  
**HIP 37415** Ref: 95.431 95.445  
**HIP 37419** Ref: 95.445  
**HIP 37433** Ref: 95.387  
**HIP 37436** Comments: Possible period  $p = 3.744d$ .  
**HIP 37438** Ref: 94.196 22.006 7.001  
**HIP 37439** Ref: 95.701  
**HIP 37440** Ref: 94.191 93.231 90.024 84.011 80.050  
 74.011 30.005 24.004 22.006 7.001  
 Comments: Ref 93.231: possibly 4-body system.  
 Period from Ref 94.191 not confirmed.  
**HIP 37444** Ref: 95.693  
**HIP 37447** Ref: 95.390 95.419 94.407  
**HIP 37459** Ref: 88.020 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 37464** Ref: 95.693  
**HIP 37478** Ref: 95.684 95.701  
**HIP 37495** Ref: 95.701  
**HIP 37500** Ref: 95.701  
**HIP 37506** Ref: 95.411 95.448 95.452 92.020 58.001  
**HIP 37511** Ref: 95.701 92.079 90.004 76.025 71.018  
 64.009 61.002 58.001 42.001 42.004 37.001  
**HIP 37515** Ref: 92.079 85.084 84.087 76.025 71.018  
 64.009 61.002 58.001 42.001 41.002  
**HIP 37521** Ref: 94.542 93.093  
 Comments: Possible period  $p = 83.8d$ .  
**HIP 37524** Ref: 94.189  
**HIP 37543** Ref: 95.701  
**HIP 37556** Ref: 95.701  
**HIP 37558** Ref: 95.701  
**HIP 37565** Ref: 95.364 95.590  
**HIP 37580** Ref: 95.684  
**HIP 37588** Ref: 95.701  
**HIP 37590** Ref: 95.697  
**HIP 37592** Ref: 95.701  
**HIP 37595** Comments: Possible period  $p = 35.31d$ .  
**HIP 37606** Ref: 95.386 94.095 94.259  
**HIP 37608** Ref: 94.406  
**HIP 37609** Ref: 95.684  
**HIP 37614** Ref: 94.206  
**HIP 37615** Comments: Possible period  $p = 1.5302d$  or related.  
**HIP 37629** Ref: 95.054 95.062 95.224 95.268 95.419  
 95.524 95.694 95.699 95.702 94.040 94.134 94.145  
 94.265 94.419 93.092 93.118 92.111 90.108 89.008  
 89.060 89.159 88.011 88.012 87.156 86.095 85.193  
 84.082 84.140 84.170  
**HIP 37641** Ref: 95.693  
**HIP 37648** Ref: 94.259  
**HIP 37652** Ref: 95.701  
**HIP 37656** Ref: 95.701  
**HIP 37657** Ref: 95.701  
**HIP 37660** Ref: 95.684  
**HIP 37668** Comments: Possibly double the period.  
**HIP 37671** Ref: 95.445 94.188  
**HIP 37677** Ref: 95.263 95.306 95.684 95.693 95.704  
 94.211 94.423 94.533 93.211 86.087  
**HIP 37688** Ref: 95.701 94.202  
**HIP 37701** Ref: 95.684  
**HIP 37705** Ref: 95.347 95.445 95.684 94.191 90.024  
 83.020  
 Comments: Confirmation of period from Ref 94.191.  
**HIP 37707** Comments: Possible period  $p = 3.873d$ .  
**HIP 37708** Comments: Period possibly spurious.  
**HIP 37710** Ref: 95.445 95.684  
**HIP 37715** Ref: 95.739  
**HIP 37725** Ref: 95.701  
**HIP 37732** Ref: 95.445  
**HIP 37740** Ref: 95.268 95.419 93.015  
**HIP 37743** Ref: 95.701  
**HIP 37758** Ref: 95.701  
**HIP 37766** Ref: 95.025 95.168 95.240 95.341 95.562  
 95.597 94.007 94.109 94.265 94.380 94.410 94.421  
 93.090 91.136 89.059 88.010  
**HIP 37784** Ref: 95.701  
**HIP 37789** Ref: 95.432 93.050  
**HIP 37791** Ref: 95.008 95.111 95.693 94.022 94.408  
**HIP 37805** Ref: 95.378 95.410 94.236  
**HIP 37811** Ref: 95.684  
**HIP 37812** Ref: 95.693  
**HIP 37816** Ref: 95.693 95.701  
**HIP 37819** Ref: 93.043  
**HIP 37822** Ref: 95.701  
**HIP 37826** Ref: 95.054 95.081 95.122 95.268 95.353  
 95.398 95.419 95.485 95.499 95.606 95.683 95.698  
 94.042 94.175 94.216 94.243 94.378 94.410 93.015  
 89.055  
**HIP 37831** Ref: 95.445  
**HIP 37832** Ref: 95.701  
**HIP 37839** Ref: 95.701

<b>HIP 37842</b>	Ref: 95.313 95.684 91.096 84.023 83.039	<b>HIP 38280</b>	Ref: 95.445
<b>HIP 37843</b>	Ref: 95.684	<b>HIP 38300</b>	Ref: 94.206
<b>HIP 37847</b>	Comments: Period may be spurious.	<b>HIP 38301</b>	Ref: 95.701
<b>HIP 37849</b>	Ref: 95.701	<b>HIP 38310</b>	Ref: 95.701
<b>HIP 37850</b>	Ref: 94.196	<b>HIP 38316</b>	Ref: 95.684
	Comments: Variations on time scale shorter than 150.0d.	<b>HIP 38319</b>	Ref: 95.684
<b>HIP 37853</b>	Ref: 95.399 94.056 94.084 94.095 93.050	<b>HIP 38339</b>	Ref: 95.701
<b>HIP 37875</b>	Ref: 95.693	<b>HIP 38361</b>	Ref: 95.410
<b>HIP 37876</b>	Ref: 95.693 94.408	<b>HIP 38370</b>	Ref: 94.019 94.205 92.061
<b>HIP 37880</b>	Ref: 95.704 94.423 93.211	<b>HIP 38373</b>	Ref: 94.209
<b>HIP 37891</b>	Ref: 95.684	<b>HIP 38375</b>	Ref: 95.445 95.701 95.704 94.423 93.211
<b>HIP 37893</b>	Ref: 95.692 88.020 86.048 82.043 81.016 77.027 22.006 7.001	<b>HIP 38379</b>	Ref: 95.701
	Comments: Ephemeris based on AAVSO data.	<b>HIP 38382</b>	Ref: 95.193 95.658 94.257
<b>HIP 37896</b>	Ref: 95.701	<b>HIP 38388</b>	Ref: 95.701
<b>HIP 37908</b>	Ref: 95.419 94.175 94.216 94.407 93.092	<b>HIP 38406</b>	Ref: 95.783 94.196 94.542 92.011
<b>HIP 37924</b>	Ref: 96.002	<b>HIP 38414</b>	Ref: 93.043
<b>HIP 37927</b>	Comments: Possible period $p = 0.1145d$ .	<b>HIP 38416</b>	Ref: 95.701
<b>HIP 37934</b>	Ref: 95.094 95.327 95.684 94.130 94.139 94.202 91.053 84.043 82.031	<b>HIP 38427</b>	Ref: 95.445 95.693
<b>HIP 37942</b>	Ref: 95.701	<b>HIP 38430</b>	Ref: 95.388 95.693 94.211
<b>HIP 37954</b>	Ref: 95.701	<b>HIP 38432</b>	Comments: Several potentially contaminating nearby stars from the dense cluster NGC 2477. Variability probably spurious.
<b>HIP 37973</b>	Comments: Possible period $p = 26.92d$ .	<b>HIP 38433</b>	Ref: 95.701
<b>HIP 37974</b>	Ref: 95.701	<b>HIP 38435</b>	Ref: 95.701
<b>HIP 37981</b>	Ref: 95.693	<b>HIP 38438</b>	Ref: 94.019 94.205 92.061 81.022
<b>HIP 37982</b>	Ref: 91.053 84.043		Comments: Confirmation of period from Ref 81.022.
	Comments: Period from Ref 84.043 confirmed.	<b>HIP 38439</b>	Ref: 95.701
<b>HIP 37985</b>	Comments: Possible period $p = 16.51d$ .	<b>HIP 38449</b>	Ref: 95.684
<b>HIP 37997</b>	Ref: 95.701	<b>HIP 38455</b>	Ref: 95.089
<b>HIP 37999</b>	Comments: Possible period $p = 2.259d$ .	<b>HIP 38457</b>	Ref: 95.701
<b>HIP 38000</b>	Ref: 95.701	<b>HIP 38464</b>	Ref: 95.701
<b>HIP 38003</b>	Ref: 95.389 95.392	<b>HIP 38470</b>	Ref: 95.693
	Comments: Possible confirmation of period from Ref 95.389.	<b>HIP 38473</b>	Ref: 95.140 95.347 94.191 93.129 93.161 92.146 90.024 90.124 88.142 86.001 83.023 73.024
<b>HIP 38018</b>	Ref: 95.386		Comments: Confirmation of period from Ref 94.191.
<b>HIP 38029</b>	Ref: 95.693	<b>HIP 38474</b>	Ref: 95.445 93.015
<b>HIP 38031</b>	Ref: 95.445 94.259	<b>HIP 38498</b>	Ref: 95.693 95.701
<b>HIP 38038</b>	Ref: 95.701	<b>HIP 38500</b>	Ref: 95.515 94.396 91.053 84.043 78.015
<b>HIP 38041</b>	Ref: 95.445	<b>HIP 38502</b>	Ref: 95.499 93.093 93.095
<b>HIP 38043</b>	Ref: 95.701		Comments: Possible period $p = 11.5d$ .
<b>HIP 38052</b>	Ref: 94.206 94.406	<b>HIP 38518</b>	Ref: 95.454 95.456 95.472 95.693 94.357
<b>HIP 38056</b>	Ref: 95.701	<b>HIP 38520</b>	Ref: 95.701
<b>HIP 38063</b>	Ref: 95.452 93.190 92.079 76.025 71.018 64.009 61.002 58.001 34.003	<b>HIP 38523</b>	Ref: 95.197 77.005 28.002
<b>HIP 38067</b>	Ref: 95.701	<b>HIP 38536</b>	Ref: 95.701
<b>HIP 38070</b>	Ref: 95.704 94.198 94.400 94.403 94.423 93.211 87.141	<b>HIP 38538</b>	Ref: 95.684
<b>HIP 38087</b>	Ref: 93.043	<b>HIP 38540</b>	Ref: 95.693
<b>HIP 38093</b>	Ref: 95.701	<b>HIP 38541</b>	Ref: 95.087 95.122 95.211 95.235 95.259 95.374 95.379 95.445 95.541 94.043 94.188 94.256 94.270 94.389
<b>HIP 38104</b>	Ref: 94.216	<b>HIP 38548</b>	Ref: 95.693
<b>HIP 38106</b>	Ref: 95.684 94.206	<b>HIP 38553</b>	Ref: 95.701
<b>HIP 38108</b>	Ref: 95.701	<b>HIP 38555</b>	Ref: 95.701
<b>HIP 38112</b>	Ref: 95.701	<b>HIP 38556</b>	Ref: 95.704 94.423
<b>HIP 38124</b>	Ref: 22.006 7.001	<b>HIP 38561</b>	Ref: 95.378 95.697 94.236 93.111 93.128 92.214 69.011 22.006
<b>HIP 38134</b>	Ref: 95.445	<b>HIP 38562</b>	Ref: 95.701
<b>HIP 38140</b>	Ref: 95.445 94.256	<b>HIP 38579</b>	Ref: 95.704 94.423
<b>HIP 38146</b>	Ref: 95.062	<b>HIP 38593</b>	Ref: 95.515
<b>HIP 38158</b>	Ref: 95.704 94.423	<b>HIP 38606</b>	Ref: 95.701
<b>HIP 38160</b>	Ref: 95.445 95.701	<b>HIP 38621</b>	Ref: 95.697 93.130
<b>HIP 38165</b>	Ref: 94.189	<b>HIP 38625</b>	Ref: 95.386 95.445 94.053 94.095 94.138 94.188 94.256 94.407
<b>HIP 38167</b>	Comments: Period uncertain.	<b>HIP 38650</b>	Comments: Alternative period $p = 1.7580d$ .
<b>HIP 38170</b>	Ref: 95.625	<b>HIP 38660</b>	Ref: 95.701
<b>HIP 38173</b>	Ref: 95.693	<b>HIP 38686</b>	Ref: 95.704 94.423 93.211
<b>HIP 38182</b>	Ref: 95.693	<b>HIP 38707</b>	Ref: 95.701
<b>HIP 38194</b>	Ref: 95.701	<b>HIP 38712</b>	Ref: 95.445
<b>HIP 38197</b>	Ref: 95.701	<b>HIP 38723</b>	Ref: 95.684
<b>HIP 38216</b>	Ref: 95.445	<b>HIP 38737</b>	Ref: 86.042
<b>HIP 38217</b>	Ref: 95.704 94.423 93.093 93.095	<b>HIP 38740</b>	Ref: 95.701
<b>HIP 38221</b>	Ref: 94.256	<b>HIP 38741</b>	Ref: 95.693
<b>HIP 38226</b>	Ref: 95.445	<b>HIP 38744</b>	Ref: 95.445 94.246
<b>HIP 38241</b>	Ref: 94.203 64.009 61.002	<b>HIP 38755</b>	Ref: 94.206
<b>HIP 38246</b>	Ref: 95.701	<b>HIP 38759</b>	Ref: 95.701
<b>HIP 38260</b>	Ref: 95.701	<b>HIP 38765</b>	Ref: 96.002
<b>HIP 38265</b>	Ref: 95.701		

- HIP 38772** Comments: Ephemeris based on AAVSO data.  
**HIP 38779** Ref: 95.701  
**HIP 38784** Ref: 95.386  
**HIP 38787** Ref: 94.432  
 Comments: Possible period  $p = 494d$ .  
**HIP 38789** Ref: 95.701  
**HIP 38800** Ref: 95.684  
**HIP 38804** Ref: 95.701  
**HIP 38807** Comments: Possible period  $p = 29.2d$ .  
**HIP 38818** Ref: 95.701  
**HIP 38827** Ref: 94.311  
**HIP 38834** Ref: 95.206 78.019  
 Comments: Very long-term (of order 1500d) variation. Appears like pulsation?  
**HIP 38835** Ref: 95.385  
**HIP 38851** Ref: 95.697  
**HIP 38862** Ref: 95.445  
**HIP 38863** Ref: 95.701  
**HIP 38870** Ref: 95.445  
**HIP 38898** Ref: 93.164  
**HIP 38900** Comments: Period could be half.  
**HIP 38906** Ref: 95.701  
**HIP 38907** Ref: 92.110 90.004 76.025 71.018 61.002 58.001  
**HIP 38908** Ref: 95.445 94.084  
**HIP 38929** Ref: 95.701  
**HIP 38939** Ref: 95.445  
**HIP 38940** Ref: 95.693  
**HIP 38944** Ref: 92.079 90.004 76.025 71.018 64.009 61.002 58.001 36.001 34.003  
**HIP 38945** Ref: 95.445  
 Comments: Possible period  $p = 0.9297d$ .  
**HIP 38957** Ref: 83.001 77.004 77.005 39.004 22.006 7.001  
**HIP 38960** Ref: 95.701  
**HIP 38963** Ref: 95.445  
**HIP 38965** Ref: 95.452 95.697 94.228 92.070 92.079 71.018 64.009 61.002  
 Comments: Clearly double star from comparison AC-DC data.  
**HIP 38978** Ref: 95.701  
**HIP 38982** Ref: 95.701  
**HIP 38994** Ref: 95.112 94.198  
**HIP 39009** Ref: 95.410 95.697 94.191 92.158 90.024 82.041 66.025  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 39010** Ref: 95.452 92.070 92.079  
**HIP 39014** Ref: 95.515  
**HIP 39017** Comments: Could be half the period.  
**HIP 39023** Ref: 95.704 94.259 94.423 93.211  
**HIP 39033** Ref: 95.095  
**HIP 39041** Ref: 96.002  
**HIP 39042** Ref: 95.347 95.382 95.412 94.191 94.538 90.024  
 Comments: Period from Ref 94.191 not confirmed.  
**HIP 39043** Ref: 95.701  
**HIP 39050** Ref: 95.701  
**HIP 39061** Ref: 93.015  
**HIP 39070** Ref: 95.701  
**HIP 39073** Ref: 95.701  
**HIP 39086** Ref: 95.693  
**HIP 39090** Comments: Possibly EA type.  
**HIP 39095** Ref: 95.515 95.684 95.701  
**HIP 39100** Ref: 95.701  
**HIP 39104** Ref: 95.445  
**HIP 39128** Comments: Possible period  $p = 3.679d$ .  
**HIP 39137** Ref: 95.445  
**HIP 39138** Ref: 95.701  
**HIP 39139** Comments: Wrongly identified with NSV 3852 in Hipparcos Input Catalogue. Other notes: G.  
**HIP 39144** Ref: 92.079 85.084 84.087 71.018 64.009 61.002 58.001 37.001  
**HIP 39153** Ref: 93.127 91.053 85.042 85.045 84.043 78.025  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 39157** Ref: 95.283 95.386 94.188 94.256  
**HIP 39187** Ref: 95.701  
**HIP 39188** Ref: 95.701  
**HIP 39195** Ref: 95.701  
**HIP 39199** Ref: 95.701  
**HIP 39211** Ref: 95.419  
**HIP 39213** Ref: 95.445 95.684  
**HIP 39217** Ref: 95.701  
**HIP 39222** Ref: 95.701  
**HIP 39240** Ref: 95.701  
**HIP 39251** Ref: 95.445  
**HIP 39261** Ref: 95.094 95.327 95.684 94.139 94.202 93.088 91.053 84.043 83.059 82.069  
 Comments: Period  $p = 8.0267d$  from Ref 83.059 not confirmed.  
**HIP 39263** Ref: 95.684  
**HIP 39271** Ref: 95.445 93.015  
**HIP 39277** Ref: 95.701  
**HIP 39283** Ref: 95.701  
**HIP 39309** Ref: 95.029  
**HIP 39311** Ref: 94.407  
**HIP 39326** Ref: 94.256  
**HIP 39329** Ref: 91.053 85.042 85.045 84.043 78.025  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 39336** Ref: 95.701  
**HIP 39340** Ref: 94.289 93.015  
**HIP 39341** Ref: 95.278 95.419 95.712 94.118 93.092 91.076 90.108  
**HIP 39348** Ref: 95.430 95.658 95.702 94.040 94.047 94.134 94.145 93.118  
 Comments: Spectroscopic period not recognised in photometry.  
**HIP 39360** Ref: 91.053 85.042 85.045 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 39376** Comments: Long-term variations with superimposed possibly 74.6d variations.  
**HIP 39380** Ref: 95.697  
**HIP 39386** Ref: 95.701  
**HIP 39397** Ref: 95.701  
**HIP 39420** Ref: 95.445  
**HIP 39424** Ref: 93.092  
**HIP 39425** Comments: Possibly EA type.  
**HIP 39426** Ref: 94.036 94.148  
**HIP 39429** Ref: 95.066 95.135 95.153 95.241 95.302 95.311 95.312 95.313 95.315 95.388 95.454 95.457 95.472 95.503 95.570 95.693 95.699 94.198 93.040 93.086  
**HIP 39438** Ref: 95.701  
**HIP 39439** Ref: 85.042 84.043  
**HIP 39445** Ref: 95.701  
**HIP 39452** Comments: Possibly an eclipsing binary, variability suspect. Other notes: G.  
**HIP 39468** Ref: 94.423 93.211 91.102  
**HIP 39472** Ref: 95.701  
**HIP 39474** Ref: 95.701  
**HIP 39506** Ref: 95.432 93.050  
**HIP 39517** Ref: 94.199  
 Comments: Ref 78.013: A double lined SB,  $p = 7.74799d$ .  
**HIP 39521** Comments: Possible period  $p = 20.8d$ .  
**HIP 39524** Ref: 95.701  
**HIP 39527** Ref: 95.445  
**HIP 39530** Ref: 95.701  
**HIP 39538** Ref: 95.684 82.031  
**HIP 39540** Ref: 95.632  
**HIP 39541** Comments: Possible period  $p = 120d$ .  
**HIP 39562** Ref: 95.701  
**HIP 39567** Ref: 95.684  
**HIP 39575** Ref: 95.701  
**HIP 39580** Ref: 95.693  
**HIP 39583** Ref: 91.043 30.013 22.006 7.001  
**HIP 39607** Ref: 95.684  
**HIP 39617** Ref: 95.445  
**HIP 39634** Ref: 95.701  
**HIP 39658** Ref: 95.701



- HIP 39659** Ref: 94.542  
**HIP 39666** Ref: 95.482 94.203 92.070 92.079 76.009  
76.025 64.009 61.002 58.001  
**HIP 39672** Ref: 95.445  
**HIP 39675** Ref: 95.684  
**HIP 39678** Ref: 95.697  
**HIP 39710** Ref: 95.386 95.445 94.084  
**HIP 39722** Ref: 95.684  
**HIP 39734** Ref: 95.523 95.684 95.690  
**HIP 39738** Ref: 95.445  
**HIP 39744** Ref: 95.701  
**HIP 39746** Ref: 95.701  
**HIP 39751** Ref: 95.332 22.006 7.001  
Comments: Amplitude smaller than expected.  
**HIP 39755** Comments: Possible period  $p = 59d$ .  
**HIP 39757** Ref: 95.062 95.347 94.191 90.024 87.160  
84.161 83.020 82.063 66.011 63.002  
Comments: Confirmation of period from Ref 94.191.  
**HIP 39769** Comments: Possible period  $p = 7.856d$ .  
**HIP 39771** Ref: 77.038 68.009 67.005  
**HIP 39780** Ref: 95.432 94.188 93.015 93.050  
**HIP 39785** Ref: 94.406  
**HIP 39825** Ref: 95.701  
**HIP 39827** Ref: 95.701  
**HIP 39840** Comments: Wrongly identified with LX Pup  
in Hipparcos Input Catalogue. Other notes: G.  
**HIP 39847** Ref: 95.684  
**HIP 39849** Ref: 95.697 94.236 94.282 94.286 93.128  
**HIP 39857** Comments: Possible period  $p = 12.59d$ .  
**HIP 39876** Ref: 95.445 95.684  
**HIP 39877** Ref: 95.692 82.043 22.006 7.001  
Comments: Possible period  $p = 108.4d$ .  
**HIP 39879** Ref: 95.701  
**HIP 39898** Ref: 95.684  
**HIP 39903** Ref: 95.386 95.701 94.056 93.050  
**HIP 39927** Comments: Possibly EA type.  
**HIP 39949** Ref: 95.701  
**HIP 39953** Ref: 95.069 95.162 95.174 95.236 95.244  
95.266 95.313 95.315 95.457 95.503 95.547 95.573  
95.693 94.022 94.354 93.188 85.058 77.018 74.018  
**HIP 39960** Ref: 95.140 95.347 95.697 94.191 93.161  
90.024 88.033 86.001 85.222 84.037 84.185 83.023  
83.106 81.020 79.030 69.014 68.001 67.009 64.001  
64.003 63.006 62.006 61.003  
Comments: Confirmation of period from Ref 94.191.  
**HIP 39967** Ref: 89.031  
Comments: Ephemeris based on AAVSO data.  
**HIP 39968** Ref: 95.693  
**HIP 39970** Ref: 95.112  
**HIP 40015** Ref: 95.386  
**HIP 40023** Ref: 94.407  
**HIP 40035** Ref: 95.137 95.445  
**HIP 40047** Ref: 95.078 95.116 95.117 95.271 94.251  
85.147  
**HIP 40051** Ref: 95.445  
**HIP 40058** Ref: 95.684  
**HIP 40060** Ref: 95.230 30.013 22.006  
Comments: Ephemeris based on AAVSO data.  
**HIP 40063** Ref: 95.693  
**HIP 40068** Ref: 95.445  
**HIP 40087** Ref: 95.445  
**HIP 40096** Ref: 95.693 89.034  
**HIP 40118** Ref: 95.193  
**HIP 40136** Ref: 95.432 94.056 93.050  
**HIP 40139** Comments: Possibly EB type with period  
 $p = 8.237d$ .  
**HIP 40155** Ref: 95.039 95.411 95.448 95.452 92.110  
92.205 89.154 86.002 82.077 80.046 80.069 77.034  
76.025 71.018 68.013 64.009 61.002 58.001 58.003  
31.004  
**HIP 40167** Ref: 94.257  
**HIP 40177** Ref: 95.684  
**HIP 40178** Ref: 95.580 93.190 92.110 90.004 85.054  
76.025 71.018 64.009 61.002 58.001  
**HIP 40181** Ref: 95.693  
**HIP 40186** Ref: 95.378 94.236  
**HIP 40196** Ref: 95.693  
**HIP 40211** Ref: 95.684  
**HIP 40215** Ref: 95.385  
**HIP 40233** Ref: 95.452 95.482 92.070 92.110 85.033  
85.084 84.087 76.025 72.014 71.018 64.009 61.002  
58.001 58.003 30.013 22.006 7.001  
**HIP 40239** Comments: The double-star analysis indicates  
that it may be the fainter (B) component which is  
variable. Other notes: D.  
**HIP 40240** Ref: 95.684 94.202 84.043 81.048  
**HIP 40259** Ref: 95.385  
**HIP 40264** Comments: Possible period  $p = 2.1919d$ .  
**HIP 40274** Ref: 95.104 95.112 95.693 95.704 94.179  
94.198 94.403 94.423 93.211 91.102  
Comments: Several bursts recorded. Intervals 100d.  
**HIP 40277** Ref: 80.050 71.013 32.001  
**HIP 40283** Ref: 95.445  
**HIP 40293** Ref: 95.684  
**HIP 40316** Ref: 95.697  
**HIP 40326** Ref: 93.092  
**HIP 40328** Ref: 95.388 95.693  
**HIP 40330** Ref: 95.140 95.347 94.191 94.286 92.206  
90.024 83.023 75.024 66.011 55.002 53.002 52.001  
37.004 37.005 31.003  
Comments: Period in Ref 94.191 confirmed.  
**HIP 40334** Ref: 95.701  
**HIP 40342** Ref: 95.684 83.020  
**HIP 40351** Comments: Insufficient time coverage for light  
curve analysis.  
**HIP 40355** Ref: 94.202  
**HIP 40379** Comments: Probable misidentification in  
Hipparcos Input Catalogue.  
**HIP 40388** Ref: 95.230 22.006  
Comments: Possible period  $p = 110d$ , not  $p = 120d$ .  
**HIP 40427** Ref: 94.248  
**HIP 40429** Ref: 95.701  
**HIP 40430** Ref: 95.085 95.113 95.126 95.568 95.656  
95.693 94.011 94.208 94.248 94.265 94.362 85.079  
84.069 84.085  
**HIP 40470** Ref: 93.092  
**HIP 40474** Ref: 95.684  
**HIP 40488** Comments: A possible DSCT variable with  
 $p = 0.14708d$ .  
**HIP 40495** Ref: 95.701  
**HIP 40526** Ref: 95.419 95.644 94.259 94.407  
**HIP 40534** Ref: 95.319 95.588 94.204 94.413 89.031  
88.020 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.  
**HIP 40546** Ref: 22.006  
Comments: Insufficient time coverage for light curve  
analysis. Ephemeris based on AAVSO data.  
**HIP 40547** Ref: 95.701  
**HIP 40552** Ref: 95.558  
**HIP 40556** Ref: 95.701  
**HIP 40559** Ref: 95.684  
**HIP 40561** Ref: 95.684  
**HIP 40593** Ref: 74.036  
Comments: Ephemeris based on AAVSO data.  
**HIP 40596** Ref: 95.693  
**HIP 40604** Ref: 95.684  
**HIP 40613** Ref: 95.087 95.122 95.432 94.043 94.056  
93.050  
**HIP 40621** Ref: 95.701  
**HIP 40646** Ref: 95.684  
**HIP 40649** Ref: 95.445  
**HIP 40655** Ref: 95.701  
**HIP 40666** Ref: 95.701  
**HIP 40693** Ref: 95.386 95.445  
**HIP 40702** Ref: 95.062 95.698 94.289 93.015  
**HIP 40706** Ref: 95.704 94.423 93.211 91.102  
**HIP 40749** Ref: 95.072  
**HIP 40763** Comments: Possible period  $p = 8.126d$ .

- HIP 40766** Ref: 95.347 95.445 95.684 94.191 90.024 83.020  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 40772** Ref: 93.092 92.134
- HIP 40778** Ref: 95.122 95.193 95.445 94.188
- HIP 40797** Ref: 95.445
- HIP 40808** Ref: 95.701
- HIP 40818** Ref: 94.206
- HIP 40831** Comments: Possibly flare star.
- HIP 40834** Ref: 95.704 94.423 93.211 91.102
- HIP 40838** Ref: 95.701
- HIP 40843** Ref: 95.383 95.432 94.188 94.407 93.050
- HIP 40858** Ref: 95.432 95.445 94.056 93.050
- HIP 40866** Ref: 95.062
- HIP 40878** Ref: 95.684
- HIP 40892** Comments: Possible period  $p = 50.6d$ .
- HIP 40908** Ref: 95.701
- HIP 40931** Comments: Possible period  $p = 20.89d$ .
- HIP 40932** Ref: 95.701
- HIP 40941** Ref: 95.684 94.202
- HIP 40943** Ref: 95.704 94.423 93.211 91.102
- HIP 40944** Ref: 95.684
- HIP 40947** Ref: 95.445
- HIP 40952** Ref: 95.445
- HIP 40977** Ref: 95.499 95.598 93.093 88.020 85.219 74.036 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data. Other notes: G.
- HIP 41003** Ref: 95.704 94.423 93.211 91.102
- HIP 41028** Ref: 95.230 94.196 30.013 22.006  
Comments: Some indication that period  $p = 104d$  but noisy and badly covered.
- HIP 41036** Ref: 95.445 95.684
- HIP 41037** Ref: 95.701 93.043  
Comments: Probably variable, possibly caused by companion.
- HIP 41039** Ref: 95.693
- HIP 41058** Ref: 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 41061** Ref: 95.509 94.418
- HIP 41066** Ref: 95.701
- HIP 41074** Ref: 95.445
- HIP 41075** Ref: 95.606 94.407
- HIP 41081** Ref: 95.445
- HIP 41113** Comments: Appears to be one GCAS-like burst.
- HIP 41117** Ref: 95.684
- HIP 41152** Ref: 95.684
- HIP 41201** Ref: 7.001  
Comments: Long-term variations, no periodicity.
- HIP 41208** Ref: 95.684
- HIP 41211** Ref: 95.193
- HIP 41214** Ref: 95.445
- HIP 41222** Ref: 95.697
- HIP 41242** Ref: 95.684
- HIP 41246** Ref: 95.693
- HIP 41250** Comments: Period probably related to  $p = 5.699d$ .
- HIP 41274** Ref: 93.073 93.118 90.059
- HIP 41278** Ref: 94.265
- HIP 41282** Ref: 95.445
- HIP 41286** Ref: 94.206
- HIP 41293** Ref: 95.701
- HIP 41294** Ref: 95.701
- HIP 41305** Ref: 95.693
- HIP 41307** Ref: 95.684 94.209
- HIP 41317** Ref: 95.445
- HIP 41324** Comments: Long-term variations, semi-periodic  $p = 150d$  to  $p = 250d$ .
- HIP 41325** Ref: 95.385
- HIP 41328** Ref: 95.445 95.684
- HIP 41352** Ref: 76.025 71.018 64.009 61.002 58.001
- HIP 41357** Ref: 95.693
- HIP 41361** Ref: 93.033 86.021 76.007
- HIP 41375** Ref: 95.347 95.445 95.563 95.684 94.191 94.202 90.024 84.186  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 41386** Ref: 93.211 91.102
- HIP 41388** Ref: 95.693
- HIP 41400** Ref: 94.196 92.011  
Comments: Period  $p = 40d$  not recognised in data.
- HIP 41402** Ref: 93.211 91.102
- HIP 41404** Ref: 95.684
- HIP 41424** Ref: 95.697
- HIP 41437** Ref: 85.114
- HIP 41444** Ref: 95.693
- HIP 41452** Ref: 95.445 93.015
- HIP 41475** Ref: 95.313 95.684 91.096 84.021 83.035 77.029  
Comments: No coverage of minima.
- HIP 41483** Ref: 95.347 94.191 90.024  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 41492** Ref: 95.700
- HIP 41501** Comments: One burst probably shortly before first observations.
- HIP 41504** Ref: 95.684
- HIP 41534** Ref: 95.693
- HIP 41535** Comments: Possible period  $p = 189d$ .
- HIP 41564** Ref: 95.684 85.193 84.140 84.147  
Comments: Type confirmed, but insufficient data for period determination.
- HIP 41572** Ref: 95.684
- HIP 41574** Ref: 95.347 95.684 94.191 90.024
- HIP 41578** Ref: 95.684
- HIP 41581** Comments: Period doubtful.
- HIP 41586** Ref: 95.693
- HIP 41588** Ref: 92.070 92.110 89.154 86.002 85.054 76.025 71.018 64.009 61.002 58.001 40.003 22.006 7.001
- HIP 41597** Ref: 95.445
- HIP 41639** Ref: 95.522 95.571 95.693
- HIP 41650** Ref: 95.426
- HIP 41659** Ref: 95.445
- HIP 41664** Ref: 95.230 95.692 94.196 94.379 88.109 82.043 30.012 22.006 7.001  
Comments: Period  $p = 290d$  not recognised. Ref 95.230 gives period  $p = 253d$ .
- HIP 41680** Ref: 95.701
- HIP 41704** Ref: 95.661 94.289 93.015 92.134
- HIP 41726** Comments: Long-term variations plus shorter superimposed.
- HIP 41737** Ref: 95.522
- HIP 41746** Ref: 95.697
- HIP 41749** Comments: Possible period  $p = 23.8d$ .
- HIP 41751** Ref: 94.047 93.118 92.111 89.060
- HIP 41774** Comments: Probably GCAS star. Gradient over the mission.
- HIP 41782** Ref: 95.094 95.255 95.327 94.139 94.202 91.053 84.043
- HIP 41784** Ref: 95.704 94.263 94.423 93.092 93.211 91.102
- HIP 41793** Ref: 95.701 22.006 7.001
- HIP 41811** Comments: Possibly EA type.
- HIP 41816** Ref: 95.684
- HIP 41817** Ref: 95.684
- HIP 41822** Ref: 94.204
- HIP 41824** Ref: 95.341 90.083
- HIP 41825** Ref: 95.701
- HIP 41834** Ref: 91.096 78.036 70.011
- HIP 41843** Ref: 95.684
- HIP 41875** Ref: 95.389 95.392 94.175 94.216  
Comments: No confirmation of period from Ref 95.389.
- HIP 41882** Ref: 95.693 93.211 91.102 86.088 85.074  
Comments: Suspected ELL variable, period  $p = 33.734d$  (Ref 85.074) Very disturbed light curve.

- HIP 41884** Comments: Variability probably spurious and related to pointing problems caused by use of incorrect proper motion from Hipparcos Input Catalogue. Other notes: G.
- HIP 41893** Ref: 95.445 95.684
- HIP 41900** Ref: 94.542
- HIP 41903** Comments: Possibly EA type.
- HIP 41904** Ref: 95.684
- HIP 41926** Ref: 95.445 94.280
- HIP 41928** Ref: 95.693
- HIP 41935** Ref: 95.390 94.407
- HIP 41936** Ref: 95.378 95.697 95.726 94.236 94.409 93.111 93.128 92.214 91.090 69.011 66.008
- HIP 41939** Ref: 95.445 93.073 93.092 93.118
- HIP 41940** Ref: 95.390 95.644 94.256 94.266 94.407
- HIP 41941** Ref: 95.522
- HIP 41949** Ref: 95.445 95.684
- HIP 41951** Ref: 95.389 95.392  
Comments: No confirmation of period from Ref 95.389.
- HIP 42008** Ref: 93.015
- HIP 42013** Comments: Possible period  $p = 39.6d$ .
- HIP 42028** Ref: 95.684
- HIP 42036** Ref: 95.436
- HIP 42049** Ref: 95.684 93.015
- HIP 42061** Comments: Period possibly related to  $p = 0.945215d$ , but insufficient data.
- HIP 42067** Ref: 95.701
- HIP 42078** Ref: 95.697
- HIP 42080** Ref: 95.684
- HIP 42084** Ref: 95.445
- HIP 42090** Ref: 95.684
- HIP 42100** Ref: 95.701
- HIP 42110** Comments: Variations on a time scale of  $p = 500d$  plus short-term variations.
- HIP 42115** Comments: Probable misidentification in Hipparcos Input Catalogue.
- HIP 42123** Ref: 95.445
- HIP 42133** Ref: 95.698 94.256 94.289 93.015 85.001
- HIP 42146** Ref: 95.445 95.684 94.202 84.043 81.048 78.020
- HIP 42147** Ref: 95.684
- HIP 42161** Comments: Variations on time scale of 5–20d.
- HIP 42172** Ref: 95.445
- HIP 42173** Ref: 95.445
- HIP 42177** Ref: 93.127 91.053 85.042 85.045 84.043 78.039 76.006  
Comments: Period from Ref 85.045 not confirmed. Period from Ref 84.043 confirmed.
- HIP 42187** Ref: 95.684
- HIP 42227** Comments: Gradient over mission could be related to incorrect colour in data reductions, similarly differences AC-DC.
- HIP 42236** Ref: 95.701
- HIP 42249** Ref: 95.684
- HIP 42251** Ref: 95.701
- HIP 42257** Ref: 95.452 92.070 92.110 91.178 79.011 76.025 61.002 58.001 58.003 36.002 36.003 22.006
- HIP 42265** Ref: 95.684
- HIP 42288** Ref: 95.693
- HIP 42291** Ref: 95.179 95.386 95.445 94.084 91.102
- HIP 42302** Ref: 95.445
- HIP 42303** Ref: 95.268 95.430 94.047 93.118 89.060 87.004 85.093 84.018 80.030 79.043 30.005 22.006  
Comments: Data in good agreement with old ephemeris.
- HIP 42312** Ref: 95.693
- HIP 42313** Ref: 95.684
- HIP 42315** Ref: 94.196 92.011  
Comments: Hipparcos data show twice the amplitude given in Hipparcos Input Catalogue.
- HIP 42316** Ref: 95.693
- HIP 42319** Ref: 95.347 94.191 94.286 90.024 84.177 71.014  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 42321** Ref: 92.070 89.154 86.002 85.054 76.021 76.025 71.018 64.009 61.002 58.001 58.003 40.003 37.003 22.006 7.001
- HIP 42327** Ref: 95.563
- HIP 42333** Ref: 94.406
- HIP 42334** Ref: 95.684
- HIP 42335** Ref: 95.697
- HIP 42340** Ref: 95.697
- HIP 42350** Ref: 94.202
- HIP 42353** Ref: 95.684
- HIP 42368** Ref: 95.445 95.684
- HIP 42388** Ref: 95.704 94.423 93.211 91.102
- HIP 42391** Ref: 85.174
- HIP 42399** Comments: Possible period  $p = 4.765d$ .
- HIP 42402** Ref: 94.407
- HIP 42403** Ref: 94.406
- HIP 42432** Ref: 95.268 95.430 95.702 94.047 94.145 94.419 93.092 93.118 92.111 89.060 77.005 30.012 30.013 28.002  
Comments: Insufficient data for independent period determination. The orbital period of the system is known to be variable (Ref 95.702).
- HIP 42433** Ref: 95.693
- HIP 42434** Ref: 95.684
- HIP 42438** Ref: 95.064 95.124 95.226 95.242 95.277 95.285 95.658 95.671 95.698 94.007 94.312
- HIP 42440** Ref: 95.701
- HIP 42448** Ref: 95.701
- HIP 42469** Comments: Possible period  $p = 158.58d$ .
- HIP 42485** Ref: 95.347 94.191 94.286 90.024 79.021 71.014  
Comments: Some confirmation of period in Ref 94.191.
- HIP 42489** Ref: 84.166 22.006 7.001
- HIP 42492** Ref: 95.452 93.149 91.102 76.025 71.018 64.006 64.009 61.002 58.001 35.006
- HIP 42494** Ref: 84.140
- HIP 42502** Ref: 95.230 94.196 92.162
- HIP 42504** Ref: 85.074  
Comments: Possible period  $p = 3.1d$  according to Ref 85.074.
- HIP 42505** Ref: 95.701
- HIP 42516** Ref: 94.180 94.407 93.015
- HIP 42523** Ref: 94.253
- HIP 42527** Ref: 95.062
- HIP 42536** Ref: 94.311 85.003 83.010 75.016 72.007
- HIP 42540** Ref: 94.229
- HIP 42542** Ref: 95.208 95.347 94.191 94.209 94.442  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 42549** Ref: 94.180 94.407
- HIP 42551** Ref: 95.701
- HIP 42554** Comments: Period could be half and type RRc.
- HIP 42556** Ref: 95.684
- HIP 42563** Ref: 94.188
- HIP 42568** Ref: 95.701 83.021  
Comments: Possible period  $p = 2.3791d$ .
- HIP 42570** Ref: 95.693 94.225 86.036
- HIP 42578** Ref: 94.209
- HIP 42579** Ref: 95.701
- HIP 42584** Ref: 95.701
- HIP 42587** Ref: 95.388 95.436 95.693 89.034
- HIP 42592** Ref: 95.087 95.122 95.193 95.235 95.445 95.697 94.043 94.188 94.222 94.270
- HIP 42594** Ref: 95.140 95.347 94.191 94.286 94.475 94.543 93.116 93.161 90.024 90.098 84.073 84.199 83.023 77.031 73.024 66.014  
Comments: Confirmation of period from Ref 94.191.

- HIP 42600** Ref: 95.239 95.347 94.166 94.191 89.118  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 42604** Ref: 95.419 94.407
- HIP 42606** Ref: 95.684
- HIP 42614** Ref: 95.515
- HIP 42619** Comments: This appears a misidentification. The star is eclipsing, but of different type and period than given for this identification. Other notes: G.
- HIP 42673** Ref: 93.092
- HIP 42674** Comments: Possible period  $p = 8.233d$ .
- HIP 42679** Ref: 95.693 89.034
- HIP 42701** Ref: 95.445 95.684
- HIP 42705** Ref: 95.347 94.191 94.286 90.024 84.177  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 42712** Ref: 95.436 95.522 85.074 83.021
- HIP 42715** Ref: 84.042  
Comments: Confirmation of period from Ref 84.042.
- HIP 42726** Ref: 85.003
- HIP 42729** Ref: 95.701
- HIP 42734** Ref: 95.432 93.050
- HIP 42738** Ref: 95.436
- HIP 42748** Ref: 95.445
- HIP 42794** Ref: 95.313 95.347 94.191 91.096 90.024 83.020 80.020 80.024 78.027 75.008 75.009 67.008  
Comments: No confirmation of period from Ref 94.191.
- HIP 42795** Ref: 96.002 95.684
- HIP 42799** Ref: 94.055 94.403
- HIP 42806** Ref: 95.684
- HIP 42808** Ref: 95.445 94.265
- HIP 42819** Ref: 95.701
- HIP 42821** Ref: 95.697
- HIP 42826** Comments: Possible period  $p = 4.737d$ .
- HIP 42831** Ref: 95.452 94.203 93.208 92.070 79.011 76.025 71.018 64.009 61.002 58.001 58.003 36.002 22.006
- HIP 42834** Ref: 95.693
- HIP 42849** Ref: 95.701
- HIP 42853** Ref: 95.412 94.538 93.131 93.135 93.266 26.003 22.006 7.001
- HIP 42874** Ref: 94.489
- HIP 42884** Ref: 95.062 94.331
- HIP 42887** Ref: 94.188 94.221
- HIP 42895** Ref: 95.445
- HIP 42908** Ref: 95.693
- HIP 42911** Ref: 94.407
- HIP 42913** Ref: 94.311
- HIP 42916** Ref: 95.445
- HIP 42917** Ref: 96.002 95.320 95.321 95.684 94.065 94.182 94.202 93.119 91.051 91.053 84.043 78.038  
Comments: Period close to Ref 91.051, uncertain.
- HIP 42921** Comments: Possible period  $p = 50.07d$ .
- HIP 42926** Ref: 92.070 71.018 64.008 64.009 61.002 58.001 36.002 22.006
- HIP 42928** Ref: 95.445 95.684
- HIP 42929** Ref: 94.203 85.054 81.076 76.025 71.018 64.009 61.002 58.001 22.006
- HIP 42931** Ref: 95.684
- HIP 42936** Ref: 95.701
- HIP 42940** Ref: 94.407
- HIP 42954** Ref: 93.015
- HIP 42975** Ref: 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 42994** Ref: 94.265
- HIP 43002** Ref: 95.684
- HIP 43012** Ref: 95.558
- HIP 43018** Ref: 95.445 95.697 94.246
- HIP 43042** Ref: 94.374
- HIP 43063** Ref: 95.230 94.196
- HIP 43067** Ref: 85.090 85.090
- HIP 43082** Ref: 95.693
- HIP 43088** Ref: 93.211 91.102
- HIP 43093** Ref: 95.514 93.211 92.011 91.102
- HIP 43099** Ref: 95.445 94.221
- HIP 43100** Ref: 95.684
- HIP 43103** Ref: 94.289 93.015
- HIP 43105** Ref: 95.112
- HIP 43109** Ref: 94.206 94.265 93.015 93.092 85.193 84.140  
Comments: The double-star analysis indicates that it is the fainter (C) component which is variable. Other notes: D.
- HIP 43117** Comments: Possibly EA type.
- HIP 43121** Ref: 96.002 95.684
- HIP 43124** Ref: 95.701
- HIP 43125** Ref: 95.693
- HIP 43135** Ref: 95.701
- HIP 43142** Ref: 95.684
- HIP 43148** Ref: 95.445 95.693
- HIP 43158** Ref: 95.693 94.357
- HIP 43163** Ref: 95.701
- HIP 43177** Ref: 95.445
- HIP 43228** Ref: 95.697 94.280
- HIP 43229** Ref: 95.693
- HIP 43234** Ref: 95.684
- HIP 43251** Comments: Possible period  $p = 7.243d$ .
- HIP 43260** Ref: 95.693
- HIP 43266** Ref: 95.515
- HIP 43305** Ref: 95.684 93.088
- HIP 43308** Comments: Possible period  $p = 29.4d$ .
- HIP 43314** Ref: 95.701
- HIP 43338** Ref: 95.445 95.684
- HIP 43351** Ref: 95.704 94.423 93.211 91.102
- HIP 43354** Ref: 95.347 94.191  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 43392** Ref: 95.693
- HIP 43393** Ref: 95.445
- HIP 43409** Ref: 93.211 91.102
- HIP 43410** Ref: 95.671
- HIP 43413** Ref: 95.301 95.388 95.436 95.693 94.055 94.357  
Comments: An eclipsing binary according to Ref 95.301. No minima observed.
- HIP 43414** Ref: 95.445 93.015
- HIP 43421** Ref: 94.206 94.406
- HIP 43427** Ref: 95.684
- HIP 43438** Ref: 35.002 30.012 22.006 7.001  
Comments: Possible period  $p = 89.9d$ .
- HIP 43443** Ref: 95.693
- HIP 43454** Ref: 95.445
- HIP 43458** Ref: 95.704 94.423
- HIP 43467** Ref: 95.701
- HIP 43493** Comments: Possible period  $p = 7.410d$ .
- HIP 43496** Ref: 95.684
- HIP 43508** Ref: 95.701
- HIP 43570** Ref: 95.684
- HIP 43572** Ref: 95.704 94.423
- HIP 43575** Comments: Possible period  $p = 16.85d$ .
- HIP 43581** Ref: 95.701
- HIP 43584** Ref: 95.684
- HIP 43587** Ref: 95.644 95.658 94.256 94.266 94.407
- HIP 43611** Ref: 95.701
- HIP 43630** Ref: 94.206
- HIP 43635** Ref: 94.406
- HIP 43644** Ref: 95.684
- HIP 43653** Ref: 95.692 88.020 82.043 70.009 22.006 7.001
- HIP 43669** Ref: 95.701
- HIP 43670** Ref: 95.470
- HIP 43683** Ref: 94.406
- HIP 43685** Ref: 95.684
- HIP 43702** Ref: 95.693 94.357
- HIP 43703** Ref: 94.174
- HIP 43726** Ref: 95.059 95.432 95.445 95.658 95.671 94.256 94.259 93.050
- HIP 43771** Ref: 95.445
- HIP 43778** Ref: 95.693 94.022 90.044 74.018

- HIP 43783** Ref: 95.701 94.278  
**HIP 43792** Ref: 95.342 94.030 94.211 85.014  
**HIP 43796** Ref: 95.701  
**HIP 43797** Ref: 95.445  
**HIP 43798** Ref: 95.445  
**HIP 43807** Ref: 94.518 86.139 83.022  
 Comments: Periods from Ref 83.022 and Ref 86.139 not confirmed.  
**HIP 43811** Ref: 95.084 95.090 95.361 95.509 95.567 94.196 94.418 93.057 30.013 22.006 7.001  
 Comments: Possible confirmation of period  $p = 195d$ .  
**HIP 43813** Ref: 95.062 95.385 95.625  
**HIP 43822** Ref: 95.684  
**HIP 43825** Ref: 95.684  
**HIP 43831** Ref: 93.095  
**HIP 43834** Ref: 95.385  
**HIP 43835** Ref: 95.692 93.081 88.020 82.043 81.016 77.027 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 43853** Ref: 95.684  
**HIP 43866** Ref: 95.029  
**HIP 43902** Ref: 95.385 95.445  
**HIP 43903** Ref: 85.090  
**HIP 43905** Ref: 95.084 95.509 94.196 94.294 94.418 30.013 22.006 7.001  
 Comments: Amplitude smaller than expected.  
**HIP 43908** Ref: 93.015  
**HIP 43932** Ref: 95.684  
**HIP 43963** Comments: Possible period  $p = 32.62d$ .  
**HIP 43964** Ref: 95.701  
**HIP 43967** Comments: Possible period  $p = 47.0d$ .  
**HIP 43970** Ref: 95.684  
**HIP 43989** Ref: 95.693  
**HIP 44001** Ref: 95.445 95.684  
**HIP 44031** Ref: 95.671  
**HIP 44032** Ref: 95.373  
**HIP 44042** Ref: 95.684  
**HIP 44050** Ref: 95.230 94.052 94.196 22.006  
**HIP 44064** Ref: 95.684  
**HIP 44066** Ref: 95.684  
**HIP 44068** Ref: 95.701  
**HIP 44075** Ref: 95.211 95.432 95.445 94.056 94.188 93.050  
**HIP 44076** Ref: 95.697  
**HIP 44093** Ref: 95.347 94.191 90.024 83.020  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 44111** Ref: 95.122 95.445 94.043  
**HIP 44116** Ref: 95.445  
**HIP 44123** Comments: Possible period  $p = 22.47d$ .  
**HIP 44124** Ref: 95.445 94.188  
**HIP 44126** Ref: 94.542  
 Comments: Possible period  $p = 10.989d$ .  
**HIP 44127** Ref: 95.563 95.684 93.097  
**HIP 44143** Ref: 95.445  
**HIP 44145** Comments: Possible period  $p = 2.926d$ .  
**HIP 44162** Ref: 95.445  
**HIP 44164** Ref: 95.268 95.386 95.430 95.698 95.774 94.047 94.125 94.265 93.073 93.118 93.182 93.255 92.111 90.139 87.004 85.041 83.025 81.009 81.050 75.019  
**HIP 44166** Comments: Possible period  $p = 1.8566d$ .  
**HIP 44172** Ref: 95.373 95.374  
**HIP 44189** Comments: Possible period  $p = 11.67d$ .  
**HIP 44191** Ref: 93.015  
**HIP 44245** Ref: 95.276 95.313 91.096 77.012 75.005  
**HIP 44248** Ref: 95.357 94.221 94.257  
**HIP 44256** Ref: 95.445  
**HIP 44263** Comments: Optical double separated by 27 arcsec. Probable photometric disturbance.  
**HIP 44266** Comments: Possible period  $p = 1.3561d$ .  
**HIP 44270** Ref: 95.697  
**HIP 44293** Ref: 94.280  
**HIP 44299** Ref: 94.518 86.139  
**HIP 44307** Ref: 95.684  
**HIP 44309** Ref: 95.697  
**HIP 44315** Ref: 95.419  
**HIP 44331** Ref: 95.684  
**HIP 44337** Comments: Period could be double.  
**HIP 44342** Ref: 95.143 95.684  
**HIP 44349** Ref: 95.430 95.694 94.047 93.118 92.076 92.111 91.155 91.180 90.031 90.047 90.129 89.060 89.077 89.098 88.086 76.035  
**HIP 44353** Ref: 95.445  
**HIP 44367** Ref: 95.445  
**HIP 44368** Ref: 95.024 95.136 95.138 95.238 95.621 95.693 94.352 93.012 88.004 85.074 82.004 81.025 74.008 74.009  
**HIP 44385** Ref: 95.693  
**HIP 44390** Ref: 94.542  
**HIP 44397** Comments: Possible period  $p = 20.61d$ .  
**HIP 44405** Ref: 95.684 94.028 93.048 93.062 84.043 81.048  
**HIP 44413** Ref: 95.642  
**HIP 44425** Ref: 94.202  
**HIP 44428** Ref: 95.297 95.378 95.379 95.401 94.123 94.236 94.409 93.111 93.129 92.150 92.207 92.214 92.215 90.052 89.062 88.046 87.058 82.054 78.048 73.029 66.008 66.025  
**HIP 44439** Ref: 95.373  
**HIP 44455** Ref: 95.720 82.085 73.020  
**HIP 44464** Ref: 94.036 94.148  
**HIP 44471** Ref: 95.684  
**HIP 44481** Ref: 95.783  
**HIP 44504** Ref: 95.684  
**HIP 44512** Ref: 95.684  
**HIP 44530** Comments: Possible periods  $p = 18.23d$  and  $p = 1.560d$ .  
**HIP 44574** Ref: 95.684  
**HIP 44607** Ref: 94.406  
**HIP 44612** Comments: Period related to  $p = 22.25d$ .  
**HIP 44626** Ref: 94.403  
 Comments: Bursts semi-periodic at  $p = 139d$ .  
**HIP 44632** Ref: 89.028 22.006  
**HIP 44634** Ref: 96.002  
**HIP 44647** Ref: 95.388 95.693  
**HIP 44659** Ref: 95.419  
**HIP 44696** Ref: 95.445  
**HIP 44700** Ref: 95.419  
**HIP 44716** Ref: 94.389  
**HIP 44717** Ref: 95.684  
**HIP 44718** Comments: Possible period  $p = 15.95d$ .  
**HIP 44719** Comments: Possible period  $p = 11.53d$ .  
**HIP 44722** Ref: 95.445  
**HIP 44738** Comments: Possible period  $p = 13.79d$ .  
**HIP 44790** Ref: 95.092 94.205 85.147  
**HIP 44798** Ref: 95.600 95.684 94.028 94.202 94.253 93.048 93.062 93.094  
**HIP 44811** Ref: 95.697 94.056 93.050  
**HIP 44816** Ref: 95.468 95.625 94.264  
**HIP 44821** Ref: 95.697  
**HIP 44846** Ref: 30.013 22.006 7.001  
 Comments: Possible period  $p = 196d$ .  
**HIP 44847** Ref: 95.411 92.110 86.002 76.025 71.018 64.009 61.002 58.001  
**HIP 44851** Ref: 94.265  
**HIP 44860** Ref: 95.399 95.432 95.445 93.050  
**HIP 44862** Comments: Possible period  $p = 211d$ .  
**HIP 44874** Ref: 94.248  
**HIP 44887** Ref: 95.445 95.684  
**HIP 44892** Ref: 95.658 94.256  
**HIP 44896** Ref: 95.386  
**HIP 44897** Ref: 95.064 95.671  
**HIP 44901** Ref: 95.684 73.017  
**HIP 44919** Ref: 95.697  
**HIP 44923** Ref: 95.684  
**HIP 44931** Ref: 95.445  
**HIP 44946** Ref: 93.092

- HIP 44949** Comments: Double star processed as single. Suspected variability probably spurious. Separation 9.7 arcsec.
- HIP 44951** Ref: 95.445
- HIP 44961** Ref: 95.385 95.445
- HIP 44966** Ref: 95.693
- HIP 44979** Ref: 96.002 95.445
- HIP 44984** Ref: 95.445 95.684 94.206
- HIP 44995** Ref: 95.588 95.692 94.290 89.031 88.020 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 44998** Ref: 95.307 95.694 95.709 95.769 94.047 94.529 93.118 91.143 91.188 90.031 90.073 90.137 90.140 89.085 89.127 88.090 86.056 86.089
- HIP 45001** Ref: 95.684
- HIP 45002** Ref: 95.697
- HIP 45008** Ref: 95.445
- HIP 45037** Ref: 95.684
- HIP 45038** Ref: 93.015
- HIP 45058** Ref: 95.230 95.303 95.398 95.419 95.499 95.581 95.680 95.783 93.093 93.095 92.162 30.013 22.006  
Comments: Possible periods  $p = 16.5d$  and  $p = 277.8d$ .
- HIP 45060** Ref: 95.697
- HIP 45075** Ref: 95.684 93.066 93.097
- HIP 45085** Ref: 95.693 84.072
- HIP 45129** Ref: 95.697
- HIP 45130** Ref: 95.697
- HIP 45150** Ref: 95.684 95.732 83.020
- HIP 45167** Ref: 95.445 95.684
- HIP 45170** Ref: 95.445 94.206
- HIP 45172** Ref: 94.206
- HIP 45178** Ref: 94.206
- HIP 45184** Ref: 95.082 95.684 91.096
- HIP 45189** Ref: 91.053 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 45237** Ref: 95.693
- HIP 45238** Ref: 95.069 95.313 94.311
- HIP 45264** Ref: 96.002
- HIP 45272** Ref: 95.684
- HIP 45290** Ref: 95.684 94.028 94.253 93.048 93.062 89.160 83.033
- HIP 45292** Ref: 95.378 95.697 94.236 93.128
- HIP 45295** Ref: 94.374
- HIP 45333** Ref: 95.432 93.050
- HIP 45336** Ref: 94.265
- HIP 45343** Ref: 95.475 94.410
- HIP 45386** Ref: 95.445
- HIP 45389** Ref: 94.406
- HIP 45392** Comments: Period could be half.
- HIP 45412** Ref: 94.256 93.015
- HIP 45416** Ref: 30.013 22.006 7.001
- HIP 45424** Ref: 95.684
- HIP 45437** Ref: 95.445
- HIP 45448** Ref: 93.015
- HIP 45461** Ref: 95.684
- HIP 45467** Ref: 95.010 95.066 95.503 95.693 94.041 92.009 82.012
- HIP 45481** Ref: 95.693
- HIP 45493** Ref: 95.347 95.483 95.563 95.684 94.191 90.024 84.161  
Comments: Possible period  $p = 0.11401d$ .
- HIP 45510** Ref: 94.221
- HIP 45527** Ref: 93.092
- HIP 45544** Ref: 95.445
- HIP 45556** Ref: 95.523 95.690
- HIP 45557** Ref: 94.221
- HIP 45563** Ref: 95.388
- HIP 45570** Ref: 95.411 92.020  
Comments: Only flagged photometric data collected for this star. Other notes: D.
- HIP 45571** Ref: 95.445
- HIP 45585** Ref: 95.445
- HIP 45590** Ref: 95.684
- HIP 45614** Ref: 95.445 95.684
- HIP 45617** Ref: 94.206
- HIP 45649** Ref: 95.140 95.347 95.755 94.191 94.455 93.161 92.145 91.148 90.024 90.153 87.003  
Comments: Period from Ref 94.191 confirmed.
- HIP 45658** Ref: 95.327 94.202 86.040  
Comments: According to Ref 86.040 possible periods  $p = 4.18d$ ,  $p = 2.075d$  and  $p = 0.568d$ .
- HIP 45661** Ref: 95.684
- HIP 45663** Ref: 95.693
- HIP 45675** Ref: 95.693 94.232 89.034
- HIP 45688** Ref: 95.684
- HIP 45699** Ref: 95.193
- HIP 45706** Comments: Possible period  $p = 62.8d$ .
- HIP 45709** Ref: 95.378 95.697 94.052 94.236 93.111 93.128 93.129 92.207 92.214 69.011 66.008 22.006
- HIP 45744** Ref: 95.684
- HIP 45794** Ref: 95.340
- HIP 45796** Ref: 83.038
- HIP 45823** Ref: 92.028
- HIP 45824** Ref: 92.011 92.162 85.193 84.140 84.170  
Comments: Possible period  $p = 277.8d$ .
- HIP 45839** Ref: 95.445
- HIP 45845** Ref: 95.423 95.697 94.280
- HIP 45853** Ref: 95.693
- HIP 45854** Ref: 95.445
- HIP 45860** Ref: 95.398 95.419 94.542
- HIP 45874** Ref: 95.684
- HIP 45902** Comments: Possible period  $p = 3.460d$ .
- HIP 45904** Ref: 95.629
- HIP 45920** Ref: 95.445
- HIP 45934** Ref: 95.693
- HIP 45935** Comments: Possible period  $p = 2.8214d$ .
- HIP 45944** Ref: 95.445
- HIP 45957** Ref: 95.445
- HIP 45963** Ref: 94.265 93.118 89.132 89.157  
Comments: Possible period  $p = 1.7195d$ .
- HIP 45970** Ref: 95.343 95.704 94.423 93.211 91.102
- HIP 45999** Ref: 95.445 95.684 94.139 94.202 91.053 85.037 84.043 81.036 81.051  
Comments: Period from Ref 85.037 not confirmed.
- HIP 46011** Ref: 95.697 95.729
- HIP 46024** Ref: 83.038 83.060
- HIP 46032** Ref: 95.693
- HIP 46047** Ref: 86.040
- HIP 46049** Ref: 95.445
- HIP 46053** Ref: 92.011
- HIP 46070** Ref: 95.704 94.423 93.211 91.102
- HIP 46093** Ref: 95.095 95.445 95.693
- HIP 46107** Ref: 95.445 93.015
- HIP 46120** Ref: 95.445
- HIP 46125** Ref: 95.684
- HIP 46131** Ref: 95.029
- HIP 46147** Comments: Possible period  $p = 39.99d$ .
- HIP 46155** Ref: 95.163 94.280
- HIP 46159** Ref: 95.343 95.704 94.265 94.423 93.073 93.118 93.211 92.111 91.102 88.069 82.076  
Comments: Amplitude smaller than expected.
- HIP 46168** Ref: 93.092
- HIP 46188** Ref: 92.011  
Comments: Possible period  $p = 12.35d$ .
- HIP 46191** Ref: 95.445
- HIP 46194** Ref: 94.196 92.011  
Comments: Possible period  $p = 10.46d$ .
- HIP 46211** Ref: 95.445
- HIP 46247** Ref: 95.389 95.392  
Comments: No confirmation of period from Ref 95.389.
- HIP 46260** Ref: 94.407
- HIP 46273** Ref: 95.445
- HIP 46288** Ref: 95.445
- HIP 46332** Ref: 95.423 95.697
- HIP 46336** Ref: 96.002
- HIP 46344** Comments: Possible period  $p = 10.75d$ .
- HIP 46365** Ref: 95.143 95.684

- HIP 46390** Ref: 95.353 95.419 95.625 94.378 89.055  
**HIP 46404** Ref: 95.445 95.510 95.658 95.671 94.188 94.257  
**HIP 46410** Ref: 95.684  
**HIP 46425** Ref: 95.343 95.704 94.423 93.211 91.102  
**HIP 46454** Ref: 95.357  
**HIP 46456** Ref: 95.558  
**HIP 46470** Ref: 83.038 83.060  
**HIP 46482** Ref: 95.445  
**HIP 46484** Ref: 95.445  
**HIP 46502** Ref: 95.692 93.192 89.031 88.020 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data. Mira type double star processed as single. Astrometry and photometry possibly perturbed.  
**HIP 46504** Ref: 95.684  
**HIP 46509** Ref: 95.658 95.739  
**HIP 46516** Ref: 95.122 95.235 94.043 94.188 94.389  
**HIP 46529** Ref: 95.445 95.684  
**HIP 46533** Ref: 94.202  
**HIP 46543** Ref: 95.445  
**HIP 46553** Ref: 95.558  
**HIP 46610** Ref: 94.203 71.018 64.009 58.001  
**HIP 46620** Comments: Possible period  $p = 4.151d$ .  
**HIP 46637** Ref: 94.265  
**HIP 46651** Ref: 93.015  
 Comments: The double-star analysis indicates that it is probably the fainter (B) component which is variable. Other notes: D.  
**HIP 46659** Ref: 95.029  
**HIP 46689** Comments: Possible period  $p = 16.25d$ .  
**HIP 46706** Ref: 94.410  
**HIP 46733** Ref: 95.684 93.015 92.134  
**HIP 46734** Ref: 95.445  
**HIP 46735** Ref: 95.419 94.542  
**HIP 46744** Ref: 95.445 95.684  
**HIP 46746** Ref: 94.203 93.212 81.076 76.025 71.018 64.009 58.001  
**HIP 46750** Ref: 95.419 94.542  
**HIP 46771** Ref: 94.175 94.216  
**HIP 46776** Ref: 95.684  
**HIP 46806** Ref: 95.387 95.588 95.692 89.031 88.020 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 46810** Ref: 95.445 95.684 22.006 7.001  
**HIP 46813** Ref: 96.002 95.684  
**HIP 46816** Ref: 95.277 95.445 95.606 94.265 94.339 93.045 91.054 86.045 85.193  
**HIP 46822** Ref: 95.259 95.445 95.697 94.280  
**HIP 46840** Ref: 94.206  
**HIP 46843** Ref: 96.014 95.389 95.392 95.671 94.265  
 Comments: Possible confirmation of period from Ref 95.389.  
**HIP 46853** Ref: 95.193 95.268 95.383 95.399 95.432 95.644 95.691 95.702 94.188 94.202 94.407 93.050 93.097  
**HIP 46856** Ref: 96.002  
**HIP 46873** Ref: 95.684  
**HIP 46874** Ref: 95.445  
**HIP 46876** Ref: 95.693  
**HIP 46880** Ref: 95.445  
**HIP 46881** Ref: 79.033 71.025 22.006 7.001  
**HIP 46890** Ref: 96.002  
**HIP 46891** Ref: 95.684  
**HIP 46893** Ref: 93.092  
**HIP 46897** Ref: 95.684 95.704 94.423 93.211  
**HIP 46904** Ref: 95.419  
**HIP 46919** Ref: 95.389 95.392  
 Comments: No confirmation of period from Ref 95.389.  
**HIP 46924** Ref: 90.004 76.025 71.018 64.009 61.002 58.001 22.006 7.001  
**HIP 46928** Comments: Period could be double.  
**HIP 46952** Ref: 95.419 94.175 94.216 90.059 86.143 85.234  
**HIP 46963** Ref: 95.684  
**HIP 46977** Ref: 95.062 95.064 95.698 95.699 94.265 94.289  
**HIP 46994** Comments: Possible period  $p = 5.208d$ .  
**HIP 47006** Ref: 95.684  
**HIP 47018** Ref: 96.008 95.729  
**HIP 47039** Ref: 95.445  
**HIP 47048** Ref: 95.445  
**HIP 47066** Ref: 95.588 95.692 93.081 89.031 88.020 86.048 82.043 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 47070** Ref: 95.684  
**HIP 47074** Ref: 86.040  
 Comments: Period from Ref 86.040 confirmed.  
**HIP 47080** Ref: 95.124 95.671 86.143 85.234  
**HIP 47096** Ref: 95.684  
**HIP 47131** Ref: 94.432  
**HIP 47139** Ref: 95.423 95.445 95.697 94.280  
**HIP 47145** Ref: 95.320 95.321 94.182 94.202 94.522 91.053 85.042 84.024 84.043 78.025  
 Comments: Possible confirmation of period from Ref 78.025.  
**HIP 47150** Ref: 95.445  
**HIP 47155** Ref: 96.002  
**HIP 47165** Ref: 95.347 94.191  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 47174** Ref: 95.004  
**HIP 47177** Ref: 94.203 90.004 76.025 71.018 64.009 61.002 58.001  
**HIP 47178** Ref: 76.036 65.005 30.005 22.006  
**HIP 47181** Ref: 94.191 94.286 92.071 90.024 83.023 75.025  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 47193** Ref: 95.698  
**HIP 47205** Ref: 93.092  
**HIP 47206** Ref: 93.073 93.092 93.118 92.111 89.060  
 Comments: Possible period  $p = 3.630d$ .  
**HIP 47225** Ref: 95.445  
**HIP 47247** Ref: 93.015  
**HIP 47249** Ref: 95.445 95.684  
**HIP 47250** Ref: 94.206  
**HIP 47260** Ref: 95.684  
**HIP 47267** Ref: 95.445 94.259  
**HIP 47272** Ref: 91.053 85.042 85.045 84.043 78.025  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 47279** Ref: 80.036 77.035 76.036 66.021  
**HIP 47300** Ref: 95.684  
**HIP 47333** Ref: 95.445  
**HIP 47388** Ref: 94.406  
**HIP 47427** Ref: 95.684  
**HIP 47431** Ref: 95.419 94.148 94.407  
**HIP 47444** Ref: 95.445  
**HIP 47446** Ref: 96.002  
**HIP 47454** Ref: 95.684  
**HIP 47463** Ref: 95.445  
**HIP 47480** Ref: 95.087 95.122 95.445 94.043 94.188  
**HIP 47508** Ref: 95.684 94.209  
**HIP 47522** Ref: 95.112 95.704 94.423 93.211 87.141  
**HIP 47570** Ref: 95.062  
**HIP 47592** Ref: 95.704 94.423 93.015 93.211  
**HIP 47599** Ref: 94.280  
**HIP 47630** Ref: 30.013 22.006 7.001  
**HIP 47631** Ref: 94.221  
**HIP 47633** Ref: 95.684  
**HIP 47664** Ref: 95.684  
**HIP 47691** Ref: 95.693  
**HIP 47701** Ref: 95.684  
**HIP 47717** Ref: 95.445  
**HIP 47723** Ref: 94.542

- HIP 47727** Ref: 95.359 95.438 95.676 94.323 94.480  
92.154 91.075 91.077 91.086 90.127 89.045 89.097  
88.098 87.129 85.030 85.153 84.141 84.153 84.155  
80.036 79.027 69.007 68.006 66.004 66.019 66.020  
65.005 64.011 64.013 56.003 36.005 30.013 29.004  
25.002 23.001 22.006 7.001  
Comments: Ref 56.003: Discussion on period changes.
- HIP 47733** Comments: Possible period  $p = 187$ d.
- HIP 47762** Ref: 95.445 95.732
- HIP 47787** Ref: 95.693
- HIP 47854** Ref: 95.482 94.232 94.259 94.397 92.070  
92.110 89.154 80.018 76.025 71.018 69.002 64.009  
61.002 58.001 58.003 30.013 22.006 7.001
- HIP 47886** Ref: 95.387 95.581 95.588 89.031 88.020  
70.009 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 47904** Ref: 94.191 94.286 90.024 83.023 66.009  
38.002  
Comments: Dwarf Cepheid with various harmonics in the period.
- HIP 47908** Ref: 95.385 95.419 94.042 94.175 94.216
- HIP 47911** Ref: 95.684
- HIP 47913** Ref: 95.445
- HIP 47932** Ref: 95.445
- HIP 47956** Ref: 95.445
- HIP 47960** Ref: 95.445 95.684
- HIP 47961** Ref: 95.445
- HIP 47992** Comments: Possible period  $p = 80.6$ d.
- HIP 48017** Ref: 95.684
- HIP 48019** Ref: 95.008 95.445 95.697 94.259 94.280
- HIP 48026** Ref: 95.445
- HIP 48027** Comments: Possible period  $p = 0.94029$ d.
- HIP 48029** Ref: 95.684 92.211
- HIP 48036** Ref: 95.065 95.181 95.319 95.387 95.484  
95.491 95.518 95.581 95.588 95.680 95.692 94.204  
94.273 94.290 94.534 92.211 91.014 90.050 88.020  
87.012 87.029 86.141 85.101 85.222 82.043 70.009  
30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 48054** Ref: 85.147
- HIP 48104** Comments: Possible period  $p = 26.67$ d.
- HIP 48106** Ref: 79.033 76.036 31.001 22.006
- HIP 48113** Ref: 95.432 93.050
- HIP 48122** Comments: Minimum brighter than expected.
- HIP 48128** Ref: 94.055
- HIP 48129** Ref: 95.129
- HIP 48133** Ref: 95.445
- HIP 48152** Ref: 95.023 95.086 95.170 95.182 95.260  
95.373 95.383 95.445 95.541 94.188 94.244 94.270  
94.346 94.389 94.407
- HIP 48188** Comments: Period in GCVS appears to belong to a different star.
- HIP 48195** Ref: 95.445
- HIP 48215** Ref: 95.389 95.392 95.445 94.053 94.138  
94.188  
Comments: No confirmation of period from Ref 95.389.
- HIP 48218** Ref: 95.347 95.684 94.191 94.206 91.198  
90.024  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 48228** Ref: 95.693
- HIP 48232** Ref: 86.130
- HIP 48243** Ref: 95.150
- HIP 48266** Ref: 95.684
- HIP 48269** Ref: 94.211
- HIP 48273** Ref: 95.445 95.658
- HIP 48319** Ref: 95.347 95.483 95.606 95.607 94.191  
93.097 90.024  
Comments: No confirmation of period from Ref 94.191.
- HIP 48327** Ref: 95.361 95.509 94.418 91.043 30.013  
22.006 7.001
- HIP 48331** Ref: 95.445 94.410
- HIP 48339** Ref: 95.445
- HIP 48341** Ref: 95.684
- HIP 48351** Ref: 95.445
- HIP 48356** Ref: 95.419 95.698
- HIP 48390** Ref: 95.684
- HIP 48402** Ref: 95.684 94.206
- HIP 48405** Ref: 30.013 22.006
- HIP 48414** Ref: 95.445 95.684
- HIP 48437** Ref: 95.684
- HIP 48441** Ref: 95.693
- HIP 48444** Ref: 94.280
- HIP 48449** Ref: 95.704 94.423 93.211 91.102
- HIP 48455** Ref: 95.390 95.419 95.644 94.175 94.216  
94.407 94.416 93.015 93.028
- HIP 48468** Ref: 95.445
- HIP 48469** Ref: 95.693
- HIP 48491** Ref: 95.701
- HIP 48494** Comments: Possible period  $p = 10.51$ d.
- HIP 48501** Ref: 95.343
- HIP 48503** Ref: 95.379 95.697 94.123 94.282 94.286  
94.409 93.111 92.150 91.205 90.052 86.064 82.041  
82.054 77.031 73.024 22.006
- HIP 48516** Ref: 95.445 95.697 94.280 93.130
- HIP 48519** Comments: Possible period  $p = 5.102$ d.
- HIP 48520** Ref: 88.020 7.001
- HIP 48538** Ref: 95.704 94.423 93.211 91.102
- HIP 48540** Ref: 91.106 90.100  
Comments: Possible period  $p = 3.289$ d.
- HIP 48582** Ref: 95.445
- HIP 48584** Ref: 95.684
- HIP 48589** Ref: 95.276 93.033 91.096 86.021 83.024  
82.030
- HIP 48594** Ref: 95.445
- HIP 48598** Ref: 95.343 93.073 91.054 84.159
- HIP 48611** Ref: 95.343
- HIP 48615** Ref: 95.419 94.204
- HIP 48617** Ref: 95.111 95.311 95.312 95.407 95.420  
95.503 95.693 95.704 94.022 94.231 94.423 93.211  
91.102 89.003 85.074 82.019  
Comments: Possible periods  $p = 10.9$ d,  $p = 12.87$ d,  
and  $p = 26.3$ d.
- HIP 48619** Ref: 94.486
- HIP 48632** Comments: Possible periods  $p = 9.386$ d and  
 $p = 15.08$ d.
- HIP 48634** Comments: Possible period  $p = 57.14$ d.
- HIP 48639** Ref: 93.228
- HIP 48662** Ref: 94.039 91.043 30.013 22.006 7.001  
Comments: Wrongly identified with X Vel? Almost 4  
mag brighter than expected.
- HIP 48663** Ref: 95.693 90.004 76.025 71.018 64.009  
61.002 58.001
- HIP 48667** Ref: 95.697
- HIP 48682** Ref: 95.684
- HIP 48688** Comments: Possibly EA type.
- HIP 48718** Ref: 95.445
- HIP 48720** Ref: 95.095
- HIP 48745** Ref: 95.098
- HIP 48763** Ref: 95.684
- HIP 48776** Ref: 95.684
- HIP 48802** Ref: 93.015
- HIP 48808** Ref: 95.693
- HIP 48830** Comments: Possible period  $p = 2.4595$ d.
- HIP 48864** Ref: 95.445
- HIP 48883** Ref: 94.209
- HIP 48895** Ref: 95.684  
Comments: Possible period  $p = 0.7752$ d.
- HIP 48923** Comments: Possible period  $p = 4.113$ d.
- HIP 48926** Ref: 95.445
- HIP 48935** Ref: 95.445
- HIP 48943** Ref: 95.063 94.198 87.141
- HIP 48958** Ref: 95.701
- HIP 48990** Ref: 95.445 95.684
- HIP 49009** Ref: 95.445



- HIP 49018** Ref: 95.268 95.702 94.265 94.419 93.072  
93.118 92.039 92.111 84.053 81.058  
Comments: Photometric period is only 2 per cent longer than spectroscopic period.
- HIP 49026** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 49029** Ref: 95.419 94.204
- HIP 49052** Ref: 95.697
- HIP 49081** Ref: 95.383 95.432 95.433 95.644 94.407  
93.050
- HIP 49098** Ref: 95.697
- HIP 49118** Ref: 92.011
- HIP 49136** Ref: 95.359 95.438 94.323 94.428 93.118  
92.154 91.155 90.109 89.097 88.044 87.105 85.124  
72.010
- HIP 49164** Ref: 95.693
- HIP 49171** Ref: 95.697
- HIP 49198** Ref: 95.445 95.649 95.697 94.246
- HIP 49204** Ref: 94.009 92.154 89.097
- HIP 49209** Comments: Period could be half.
- HIP 49217** Ref: 95.359 94.323
- HIP 49220** Ref: 93.126
- HIP 49223** Ref: 95.445
- HIP 49233** Ref: 95.445
- HIP 49238** Ref: 95.704 94.423 93.211 91.102
- HIP 49267** Ref: 95.701
- HIP 49271** Comments: Possible period  $p = 16.67d$ .
- HIP 49294** Ref: 95.684
- HIP 49300** Comments: Possible periods  $p = 4.276d$  and  $p = 51.4d$ .
- HIP 49321** Ref: 95.684
- HIP 49329** Ref: 95.445
- HIP 49333** Comments: Amplitude smaller than expected. Ephemeris based on AAVSO data.
- HIP 49339** Ref: 95.445 95.684
- HIP 49363** Ref: 95.432 94.221 93.050
- HIP 49371** Ref: 95.087 95.122 95.193 95.445 94.043  
94.270
- HIP 49402** Ref: 95.701
- HIP 49408** Ref: 95.684
- HIP 49416** Ref: 95.336
- HIP 49418** Ref: 95.445
- HIP 49432** Ref: 95.701
- HIP 49445** Ref: 95.684
- HIP 49463** Comments: Possible period  $p = 1.6007d$ .
- HIP 49485** Ref: 95.445
- HIP 49524** Ref: 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 49530** Ref: 94.206
- HIP 49541** Ref: 94.406
- HIP 49569** Ref: 95.704 94.423 93.211 91.102
- HIP 49583** Ref: 95.066 95.338 95.478 95.523 95.563  
95.684 95.690 94.041
- HIP 49590** Ref: 95.701
- HIP 49593** Ref: 95.150 95.338 95.684 91.139 71.014
- HIP 49608** Ref: 95.693
- HIP 49610** Comments: Possible period  $p = 2.470d$ .
- HIP 49613** Comments: Possible period  $p = 14.38d$ .
- HIP 49616** Ref: 95.445 95.689 95.691 94.053 94.138  
94.270 94.280
- HIP 49628** Ref: 95.297 95.378 95.379 95.401 95.697  
94.123 94.236 94.409 93.111 92.150 92.214 91.090  
90.052 89.062 85.059 82.054 79.044 78.048 77.036  
69.011 66.008 40.003 37.002 35.005 30.006 22.006
- HIP 49637** Ref: 95.419
- HIP 49641** Ref: 95.684
- HIP 49644** Ref: 95.445
- HIP 49657** Comments: Possible period  $p = 1.464d$ .
- HIP 49658** Ref: 94.221
- HIP 49664** Comments: Possible period  $p = 45.23d$ .
- HIP 49668** Ref: 95.445
- HIP 49669** Ref: 95.313 95.515 95.564 95.642 94.064  
94.198 94.403
- HIP 49689** Ref: 95.684
- HIP 49697** Ref: 95.697
- HIP 49701** Ref: 95.684 95.701
- HIP 49737** Comments: Measurements slightly perturbed by the bright neighbour HIP 49740, 30 arcsec distant. Microvariability spurious.
- HIP 49751** Ref: 95.692 94.379 89.056 88.020 85.018  
82.043 81.016 72.005 71.007 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 49755** Comments: Possible period  $p = 32.45d$ .
- HIP 49766** Comments: Possible period  $p = 1.8367d$ .
- HIP 49769** Ref: 95.445 94.259
- HIP 49779** Ref: 95.445
- HIP 49791** Ref: 86.040  
Comments: According to Ref 86.040 possible period  $p = 14.1d$ .
- HIP 49793** Ref: 95.122 95.386 95.445 94.043
- HIP 49802** Ref: 95.684 95.701
- HIP 49809** Ref: 95.445 95.658 95.701
- HIP 49812** Ref: 95.143 95.684 95.701
- HIP 49816** Comments: Possible period  $p = 2.5943d$ .
- HIP 49838** Ref: 95.693
- HIP 49841** Ref: 95.062 95.390 95.419 95.644 94.259  
94.407 93.092
- HIP 49853** Ref: 95.701
- HIP 49871** Ref: 95.445
- HIP 49893** Ref: 94.542
- HIP 49900** Ref: 95.684 95.701
- HIP 49902** Comments: Possible period  $p = 1.4885d$ .
- HIP 49908** Ref: 95.475 95.644 94.407 94.410
- HIP 49918** Ref: 95.445
- HIP 49929** Ref: 95.445 95.671 94.206
- HIP 49934** Ref: 95.693 94.198 94.403
- HIP 49945** Comments: Possibly E or GCAS type.
- HIP 49967** Ref: 95.684
- HIP 49986** Ref: 95.445 94.410
- HIP 49995** Ref: 95.701
- HIP 50006** Ref: 95.704 94.423 93.211 91.102
- HIP 50013** Ref: 95.445
- HIP 50022** Ref: 95.701
- HIP 50036** Ref: 95.445
- HIP 50044** Ref: 94.198
- HIP 50066** Ref: 95.445 95.684
- HIP 50068** Ref: 95.693
- HIP 50070** Ref: 95.347 94.191 90.025  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 50073** Ref: 95.378 95.697 94.236 94.282 94.286  
93.111 93.128 92.214
- HIP 50075** Ref: 95.386 95.445
- HIP 50099** Ref: 95.325 94.198
- HIP 50100** Ref: 95.386
- HIP 50109** Ref: 93.092
- HIP 50126** Ref: 95.336
- HIP 50133** Ref: 95.701
- HIP 50139** Ref: 95.193 95.386 95.445 94.188 94.256
- HIP 50156** Ref: 95.277
- HIP 50157** Ref: 95.701
- HIP 50173** Ref: 95.697 94.280 93.130
- HIP 50174** Ref: 95.671 93.050
- HIP 50187** Ref: 95.445
- HIP 50191** Ref: 95.012
- HIP 50222** Ref: 94.542
- HIP 50230** Ref: 95.692 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 50241** Ref: 94.188
- HIP 50244** Ref: 90.004 76.025 71.018 64.009 61.002  
58.001 35.004
- HIP 50250** Ref: 95.701
- HIP 50253** Ref: 95.388 95.693
- HIP 50269** Ref: 95.693
- HIP 50272** Ref: 95.693  
Comments: Possible periods  $p = 0.081566d$  or  $p = 4.98753d$ .
- HIP 50289** Ref: 95.297 95.378 95.379 95.697 94.123  
94.236 94.282 94.286 93.111 93.263 82.054 77.031
- HIP 50292** Ref: 95.704 94.423 93.211 91.102

- HIP 50303** Ref: 95.684  
**HIP 50315** Ref: 95.196  
**HIP 50316** Ref: 95.432 93.050  
**HIP 50319** Ref: 95.383 95.644 94.256 94.407  
**HIP 50332** Comments: Possible SR period  $p = 10.69d$ .  
**HIP 50335** Ref: 95.338 95.684 93.015 93.097  
**HIP 50345** Ref: 95.701  
**HIP 50368** Ref: 95.693  
**HIP 50371** Ref: 94.259  
**HIP 50372** Ref: 95.280 95.563 95.684  
**HIP 50382** Ref: 95.087 95.122 95.445 94.043  
**HIP 50384** Ref: 95.193 95.432 93.050  
**HIP 50389** Comments: Period possibly spurious.  
**HIP 50407** Ref: 94.196  
**HIP 50414** Ref: 95.445 95.701 93.015  
**HIP 50422** Ref: 95.701  
**HIP 50433** Ref: 95.684  
**HIP 50435** Ref: 95.684  
**HIP 50447** Ref: 95.684  
**HIP 50448** Ref: 95.684  
**HIP 50456** Ref: 95.040 95.137 95.294 95.529 94.120 94.235 91.046  
 Comments: Several GCAS-like bursts. Photometric binary period  $p = 429d$  (Ref 95.294).  
**HIP 50459** Ref: 95.684  
**HIP 50463** Comments: Probably eclipsing but period not found.  
**HIP 50476** Ref: 95.701  
**HIP 50493** Ref: 95.445 95.704 94.423 93.211 91.102  
 Comments: Not variable.  
**HIP 50502** Comments: Possible period  $p = 1.9550d$ .  
**HIP 50521** Ref: 95.701  
**HIP 50523** Ref: 95.701  
**HIP 50536** Ref: 95.684 95.701  
**HIP 50564** Ref: 95.379 94.407 93.015 91.139 71.014  
**HIP 50576** Ref: 95.693  
**HIP 50581** Ref: 95.030 95.701 92.048 91.166 84.069  
**HIP 50583** Ref: 95.240 95.419 93.015  
 Comments: Possible periods  $p = 1.65289d$  or  $p = 1.6245d$ . The double-star analysis indicates that it is the fainter (B) component which is variable. Other notes: D.  
**HIP 50584** Ref: 95.445 95.701 93.015  
**HIP 50598** Ref: 95.693  
 Comments: Possible periods  $p = 2.35360d$  or  $p = 4.252d$ .  
**HIP 50615** Ref: 95.450 95.452 93.149 91.210 76.025 71.018 64.009 61.002 58.001 40.001  
 Comments: Very noisy light curve.  
**HIP 50626** Comments: Possible period  $p = 3.402d$ .  
**HIP 50655** Ref: 95.452 95.482 94.203 92.070 76.025 71.018 64.009 61.002 58.001 40.003 35.004 24.005 22.006  
**HIP 50657** Ref: 95.445  
**HIP 50671** Ref: 95.386 95.399 95.445 94.056 93.050  
**HIP 50676** Ref: 95.704 94.055 94.423 93.211 91.102  
 Comments: Possibly variable.  
**HIP 50685** Ref: 95.347 95.684 94.191 88.072  
 Comments: Period in Ref 94.191 does not fit the data.  
**HIP 50697** Ref: 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 50698** Ref: 95.701  
**HIP 50705** Ref: 95.701  
**HIP 50709** Ref: 84.043 81.045  
**HIP 50713** Ref: 95.445  
**HIP 50722** Ref: 94.203 86.066 85.054 64.008 64.009 61.002 58.001 26.001  
**HIP 50723** Ref: 95.445  
**HIP 50728** Ref: 95.684  
**HIP 50739** Ref: 95.684  
**HIP 50749** Comments: Possible period  $p = 2.898d$ .  
**HIP 50752** Ref: 95.389 95.392 94.175 94.216 93.118  
 Comments: Some indication of possible eclipses. Possible confirmation of period  $p = 21.5d$  from Ref 95.389 or period may be around  $p = 9.15d$ .  
**HIP 50755** Ref: 95.445 95.684  
**HIP 50786** Ref: 95.124 95.277 95.432 95.671 93.050  
**HIP 50787** Ref: 95.701  
**HIP 50790** Ref: 95.684  
**HIP 50801** Ref: 95.419 95.606  
 Comments: Possible period  $p = 1.7354d$ . Other notes: G.  
**HIP 50827** Comments: Possible period  $p = 48.6d$  but very uncertain.  
**HIP 50843** Ref: 95.010 95.028 95.040 95.352 95.476 95.536 95.639 95.693 95.704 94.193 94.423 93.211 92.041 91.016 91.025 91.102 90.026 71.008  
 Comments: Very long-term variations, time scale over 1200d.  
**HIP 50847** Ref: 84.043  
**HIP 50851** Ref: 94.209  
**HIP 50860** Ref: 95.684 85.193 84.140 84.170  
**HIP 50861** Comments: One point indicating possibly EA type.  
**HIP 50868** Ref: 95.445 95.684  
**HIP 50870** Ref: 95.445  
**HIP 50874** Ref: 95.701  
**HIP 50885** Ref: 95.684 94.165 93.119 93.211 91.053 91.102 90.043 85.042 85.045 84.043 83.058 83.061  
 Comments: Period from Ref 84.043 and Ref 85.045 confirmed.  
**HIP 50888** Ref: 95.543  
**HIP 50899** Ref: 95.693  
**HIP 50903** Ref: 95.445  
**HIP 50919** Ref: 95.693  
**HIP 50933** Ref: 95.327 95.684 94.028 94.139 94.253 93.048 93.062 93.104 91.036 84.043 84.135  
 Comments: Photometric period from Ref 91.036 ( $p = 7.5586d$ ) substantially different from spectroscopic binary period of 11.5741d (see Zorbil, M. and Budag, J., IBVS 3913, 1993). These observers find no photometric variations.  
**HIP 50935** Ref: 85.193 84.140 84.170  
**HIP 50939** Ref: 95.445  
**HIP 50941** Ref: 95.445  
**HIP 50944** Ref: 95.445  
**HIP 50951** Comments: Possible period  $p = 6.92d$ .  
**HIP 50954** Ref: 95.379 93.015  
**HIP 50958** Ref: 95.445  
**HIP 50966** Ref: 95.313 91.096 80.020 75.013  
 Comments: No complete coverage of primary minimum. Old ephemeris in good agreement with new data.  
**HIP 50992** Comments: About 1.5 mag fainter than in Hipparcos Input Catalogue. GCVS period confirmed.  
**HIP 50993** Ref: 95.445  
**HIP 51006** Ref: 95.693  
**HIP 51008** Ref: 95.419 95.499 94.204 93.093 93.095  
 Comments: Possible period  $p = 4.155d$ .  
**HIP 51046** Ref: 94.204  
**HIP 51050** Ref: 95.336  
**HIP 51054** Ref: 95.701  
**HIP 51056** Ref: 95.419 95.684 94.266 90.108  
 Comments: Possibly variable.  
**HIP 51063** Ref: 95.693 94.211  
**HIP 51075** Ref: 95.347 94.191 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 51080** Ref: 94.175 94.216 90.059  
**HIP 51084** Ref: 94.196  
 Comments: Ephemeris based on AAVSO data.  
**HIP 51109** Ref: 95.693  
**HIP 51112** Comments: Possible period  $p = 6.432d$ .  
**HIP 51117** Ref: 95.445  
**HIP 51127** Ref: 95.445

- HIP 51140** Ref: 94.423 93.211 91.102  
Comments: Possibly variable.
- HIP 51141** Comments: Possible period  $p = 179.8d$ .
- HIP 51142** Ref: 94.203 90.004 76.025 71.018 64.009  
61.002 58.001 40.003 28.005 22.006
- HIP 51145** Ref: 94.206
- HIP 51147** Ref: 94.206
- HIP 51150** Ref: 95.693
- HIP 51162** Comments: Possibly flare star.
- HIP 51172** Ref: 94.204
- HIP 51179** Ref: 94.406
- HIP 51192** Ref: 95.431 95.693 94.414
- HIP 51194** Ref: 95.445 93.211
- HIP 51200** Ref: 95.684
- HIP 51213** Ref: 95.327 95.684 94.139 91.053 84.043
- HIP 51233** Ref: 95.419 94.206 93.092
- HIP 51248** Ref: 95.193 95.383 94.188 94.257 94.407
- HIP 51257** Ref: 95.445
- HIP 51262** Ref: 95.580 94.203 93.281 89.154 88.108  
83.101 82.066 71.018 64.008 64.009 61.002 58.001  
26.004 22.006
- HIP 51297** Ref: 95.445
- HIP 51302** Ref: 95.684 85.042 85.045 83.058
- HIP 51310** Ref: 95.693
- HIP 51317** Ref: 94.188
- HIP 51338** Ref: 93.190 85.054 81.076 76.025 71.018  
64.009 61.002 58.001 30.004 22.006
- HIP 51353** Comments: Possible period  $p = 20.20d$ .
- HIP 51362** Ref: 93.211 91.102
- HIP 51376** Ref: 95.642 94.229
- HIP 51384** Ref: 95.684
- HIP 51388** Ref: 95.697
- HIP 51399** Ref: 95.373
- HIP 51411** Ref: 95.745 92.076 91.143 89.140  
Comments: New data in good agreement with old  
ephemeris.
- HIP 51415** Ref: 95.087 95.122 94.043
- HIP 51420** Ref: 96.002 95.684
- HIP 51425** Comments: Probably EA type, but insufficient  
data.
- HIP 51437** Ref: 95.515 94.064 86.042
- HIP 51448** Ref: 95.684
- HIP 51453** Comments: GCAS star with long intervals  
(greater than 1200d).
- HIP 51459** Ref: 95.458 95.658 95.698
- HIP 51475** Ref: 95.445
- HIP 51491** Ref: 95.701 87.141
- HIP 51496** Comments: Probably a BY Dra type variable.  
Other notes: G.
- HIP 51500** Ref: 95.336
- HIP 51523** Ref: 94.095 94.259
- HIP 51542** Ref: 95.701
- HIP 51551** Ref: 95.445
- HIP 51554** Ref: 95.693
- HIP 51556** Ref: 96.002 95.684
- HIP 51575** Ref: 95.701
- HIP 51576** Ref: 95.615 94.198 93.211  
Comments: Intervals between bursts short (days).
- HIP 51585** Comments: Possible period  $p = 2.695d$ .
- HIP 51610** Ref: 94.423 93.211 91.102
- HIP 51623** Ref: 95.693
- HIP 51624** Ref: 95.523 95.571 94.314 93.091  
Comments: Possible alternative period  $p = 1.4917d$ .
- HIP 51642** Ref: 95.701
- HIP 51653** Ref: 95.450 95.452 95.580 93.149 93.190  
92.109 91.210 88.108 83.126 79.047 76.021 76.025  
71.018 64.009 61.002 58.001 35.004 22.006 7.001  
Comments: Ref 79.047: second period  $p = 2.55954d$ .  
Spectroscopic binary, orbit  $p = 993d$ .
- HIP 51658** Ref: 95.684
- HIP 51674** Ref: 95.701
- HIP 51676** Ref: 95.693 76.001
- HIP 51681** Ref: 95.693
- HIP 51683** Comments: Probably EA type, but insufficient  
data.
- HIP 51685** Ref: 96.002 95.684
- HIP 51697** Ref: 95.684
- HIP 51700** Ref: 95.432 93.050
- HIP 51741** Ref: 95.701
- HIP 51769** Ref: 94.188
- HIP 51773** Ref: 95.693
- HIP 51791** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 51794** Ref: 95.103
- HIP 51795** Ref: 95.445
- HIP 51797** Ref: 95.103
- HIP 51802** Ref: 95.684 68.011
- HIP 51810** Comments: Possible period  $p = 2.6707d$ .
- HIP 51814** Ref: 93.075
- HIP 51816** Ref: 94.259
- HIP 51821** Ref: 95.581 94.078 90.014 22.006 7.001
- HIP 51830** Ref: 95.701
- HIP 51832** Ref: 95.701
- HIP 51839** Ref: 94.204
- HIP 51847** Comments: Long-term (600d) variations.  
Other notes: D.
- HIP 51852** Ref: 95.684
- HIP 51853** Ref: 95.701
- HIP 51857** Ref: 95.693
- HIP 51860** Ref: 95.701
- HIP 51866** Ref: 95.693
- HIP 51873** Ref: 95.558
- HIP 51884** Ref: 93.118 91.054 89.139 85.193 84.115
- HIP 51894** Ref: 76.025 71.018 64.009 61.002 58.001  
35.004
- HIP 51907** Ref: 95.445 95.684 95.701
- HIP 51909** Ref: 94.203 85.054 71.018 64.009 61.002  
58.001 28.005 22.006
- HIP 51914** Ref: 95.432 93.050
- HIP 51933** Ref: 95.432 95.445 95.701 93.050
- HIP 51966** Ref: 94.406
- HIP 51974** Ref: 95.445 95.684 95.701
- HIP 51986** Ref: 93.015
- HIP 52004** Ref: 95.704 94.423 93.211 91.102
- HIP 52009** Ref: 95.254 95.361 95.509 95.581 95.648  
94.164 94.196 94.418 91.043 71.007 30.013 22.006  
7.001  
Comments: New SR period determined. Period  
 $p = 450d$  not recognised.
- HIP 52018** Ref: 95.701
- HIP 52032** Ref: 93.092
- HIP 52035** Ref: 95.701
- HIP 52036** Ref: 95.701
- HIP 52043** Ref: 95.704 94.423 93.211 91.102 85.003  
Comments: Ref 85.003 period improved.
- HIP 52044** Ref: 95.693
- HIP 52064** Ref: 84.128 84.152
- HIP 52066** Ref: 95.745 95.749 91.096 91.143 89.060  
85.116 83.091 78.036 66.005 65.005 64.013
- HIP 52069** Ref: 95.336
- HIP 52085** Ref: 95.701 93.092
- HIP 52098** Ref: 95.385 95.419
- HIP 52103** Ref: 95.704 94.423 93.211 91.102
- HIP 52113** Ref: 95.684 95.701
- HIP 52116** Ref: 95.103
- HIP 52123** Ref: 84.022
- HIP 52131** Ref: 95.336
- HIP 52136** Ref: 95.062
- HIP 52139** Ref: 74.030
- HIP 52157** Ref: 85.054 40.001  
Comments: Star fainter than in Hipparcos Input  
Catalogue, also smaller amplitude.
- HIP 52160** Ref: 95.103
- HIP 52171** Ref: 95.103
- HIP 52182** Ref: 95.388 95.693
- HIP 52183** Ref: 95.701
- HIP 52191** Ref: 95.388 95.693 94.189
- HIP 52216** Ref: 95.445
- HIP 52221** Ref: 95.103 94.202 91.053 85.034 85.047  
84.042 84.043 83.040

<b>HIP 52249</b>	Ref: 56.001	<b>HIP 52614</b>	Ref: 95.336
<b>HIP 52255</b>	Ref: 95.558	<b>HIP 52628</b>	Ref: 95.388 95.693
<b>HIP 52261</b>	Ref: 95.103	<b>HIP 52633</b>	Ref: 95.388
<b>HIP 52271</b>	Ref: 94.423 93.211 91.102	<b>HIP 52634</b>	Ref: 95.701
<b>HIP 52279</b>	Ref: 94.174	<b>HIP 52656</b>	Ref: 94.196 30.013 22.006 7.001
<b>HIP 52280</b>	Ref: 95.701	<b>HIP 52661</b>	Ref: 95.693 94.203 93.190 90.004 76.025 71.018 61.002 58.001 26.002 24.005 22.006
<b>HIP 52292</b>	Ref: 95.701	<b>HIP 52663</b>	Comments: Possible period $p = 42.0d$ .
<b>HIP 52297</b>	Ref: 95.445 94.280	<b>HIP 52673</b>	Ref: 95.445
<b>HIP 52308</b>	Ref: 95.111 95.311 95.312 95.503 95.693 95.704 94.022 94.423 93.211 91.163 78.002	<b>HIP 52678</b>	Ref: 95.103
<b>HIP 52316</b>	Ref: 95.373 95.445	<b>HIP 52679</b>	Ref: 95.010 95.704 94.423 93.211 91.102
<b>HIP 52329</b>	Comments: Possible period $p = 5.794d$ .	<b>HIP 52688</b>	Ref: 95.701
<b>HIP 52331</b>	Ref: 95.693 94.022 94.408	<b>HIP 52693</b>	Ref: 95.701
<b>HIP 52340</b>	Ref: 95.336 Comments: May be type EA but no period found.	<b>HIP 52697</b>	Ref: 95.693
<b>HIP 52353</b>	Ref: 94.542 85.090	<b>HIP 52701</b>	Ref: 95.103
<b>HIP 52358</b>	Ref: 95.693	<b>HIP 52707</b>	Ref: 94.246
<b>HIP 52366</b>	Ref: 95.165 94.196 94.542 92.011	<b>HIP 52709</b>	Ref: 95.704 94.423 93.211 91.102
<b>HIP 52369</b>	Ref: 94.406	<b>HIP 52727</b>	Ref: 95.062 95.698 94.265 93.015
<b>HIP 52370</b>	Comments: Probably GCAS type.	<b>HIP 52737</b>	Ref: 95.445 95.684 95.701
<b>HIP 52380</b>	Ref: 92.020 86.002 64.009 61.002 58.001	<b>HIP 52743</b>	Ref: 95.701
<b>HIP 52381</b>	Ref: 95.313 91.096 80.020 75.003 75.004	<b>HIP 52748</b>	Comments: Possible period $p = 30.6d$ .
<b>HIP 52397</b>	Ref: 95.336	<b>HIP 52750</b>	Ref: 95.701
<b>HIP 52403</b>	Ref: 95.701	<b>HIP 52762</b>	Ref: 95.693
<b>HIP 52405</b>	Comments: Probably GCAS star.	<b>HIP 52771</b>	Ref: 94.270
<b>HIP 52409</b>	Ref: 95.445	<b>HIP 52781</b>	Ref: 95.445 95.697 94.280
<b>HIP 52411</b>	Ref: 95.693	<b>HIP 52792</b>	Ref: 95.701
<b>HIP 52419</b>	Ref: 95.103 95.788 94.198 94.311 94.390 84.043	<b>HIP 52793</b>	Ref: 95.701
<b>HIP 52422</b>	Ref: 95.563 95.684	<b>HIP 52794</b>	Comments: Possible period $p = 13.53d$ .
<b>HIP 52436</b>	Ref: 95.010 95.704 94.423 93.211 91.102	<b>HIP 52795</b>	Ref: 95.684 95.701
<b>HIP 52443</b>	Ref: 95.701	<b>HIP 52800</b>	Ref: 95.701 94.406
<b>HIP 52444</b>	Ref: 95.693	<b>HIP 52815</b>	Ref: 95.103
<b>HIP 52457</b>	Ref: 95.684	<b>HIP 52819</b>	Ref: 95.701
<b>HIP 52468</b>	Comments: Gradient over mission.	<b>HIP 52849</b>	Ref: 95.016 95.050 95.177 95.463 95.472 95.494 95.515 95.533 95.535 95.547 95.573 95.645 95.672 94.251 94.318 93.008
<b>HIP 52469</b>	Ref: 95.684 93.015	<b>HIP 52863</b>	Ref: 95.445
<b>HIP 52487</b>	Ref: 85.147	<b>HIP 52892</b>	Comments: Possibly EA type.
<b>HIP 52488</b>	Ref: 95.311 95.312 95.503 95.693 95.704 94.022 94.408 94.423 93.211 92.003 78.002 74.018	<b>HIP 52901</b>	Ref: 95.336
<b>HIP 52498</b>	Ref: 94.300	<b>HIP 52906</b>	Ref: 95.050 95.177
<b>HIP 52502</b>	Ref: 95.103	<b>HIP 52911</b>	Ref: 95.684
<b>HIP 52508</b>	Comments: Extremely short period for an RRab although light curve and spectral type are correct.	<b>HIP 52912</b>	Ref: 94.280
<b>HIP 52513</b>	Ref: 95.684	<b>HIP 52913</b>	Ref: 95.684
<b>HIP 52520</b>	Ref: 95.445	<b>HIP 52958</b>	Ref: 94.188
<b>HIP 52524</b>	Ref: 95.701	<b>HIP 52959</b>	Ref: 95.684
<b>HIP 52526</b>	Ref: 95.693 92.128	<b>HIP 52965</b>	Ref: 95.445
<b>HIP 52535</b>	Ref: 95.445	<b>HIP 52980</b>	Ref: 95.684
<b>HIP 52538</b>	Ref: 95.482 94.228 92.070 92.110 76.025 71.018 64.009 61.002 58.001 58.003 26.004 22.006 Comments: Companion is HIP 52541 at about 10 mag and 12 arcsec separation. Light curve very irregular contrary to Ref 76.025. New epoch of maximum.	<b>HIP 52991</b>	Comments: Almost 2 mag brighter than expected.
<b>HIP 52546</b>	Ref: 95.588 95.692 93.081 89.031 88.020 86.141 85.222 70.009 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 53016</b>	Ref: 95.103
<b>HIP 52553</b>	Comments: Possible period $p = 17.71d$ .	<b>HIP 53022</b>	Ref: 95.701
<b>HIP 52555</b>	Ref: 95.445	<b>HIP 53024</b>	Ref: 95.336
<b>HIP 52558</b>	Ref: 95.388 95.503 95.515 95.572 95.693	<b>HIP 53037</b>	Ref: 95.701
<b>HIP 52560</b>	Ref: 95.701	<b>HIP 53070</b>	Ref: 95.193 95.211 95.445 95.541 94.188
<b>HIP 52562</b>	Ref: 30.013 22.006 7.001	<b>HIP 53074</b>	Ref: 95.336
<b>HIP 52565</b>	Comments: Possibly long-period SR.	<b>HIP 53083</b>	Ref: 94.203 90.004 76.025 71.018 64.009 61.002 58.001 26.002 22.006
<b>HIP 52570</b>	Ref: 95.452 83.073 83.090 71.018 64.008 64.009 61.002 58.001 26.002 22.006	<b>HIP 53085</b>	Ref: 95.181 95.254 95.303 95.361 95.509 95.514 95.581 95.680 94.039 94.196 94.235 94.418 30.013 22.006 7.001
<b>HIP 52577</b>	Ref: 95.361 95.509 95.567 95.581 94.418 92.162	<b>HIP 53088</b>	Ref: 95.701
<b>HIP 52580</b>	Comments: Alternatively half the period.	<b>HIP 53109</b>	Ref: 95.693 Comments: Possible alternative period $p = 0.9155d$ .
<b>HIP 52599</b>	Ref: 95.074 95.075 93.191 93.233 92.091 92.120 92.185 91.071 90.040 87.046 86.055 80.061 77.005 65.005 64.013	<b>HIP 53141</b>	Ref: 95.445 95.684
<b>HIP 52602</b>	Ref: 95.347 94.191 93.058 93.159 93.160 91.029 90.009 90.106 Comments: Confirmation of period from Ref 94.191.	<b>HIP 53155</b>	Ref: 85.090
		<b>HIP 53156</b>	Ref: 95.701
		<b>HIP 53169</b>	Ref: 94.188
		<b>HIP 53213</b>	Ref: 95.297 95.378 95.697 94.236 94.282 94.286 93.128 82.054 77.031
		<b>HIP 53229</b>	Ref: 95.625
		<b>HIP 53240</b>	Ref: 95.558 93.092
		<b>HIP 53244</b>	Ref: 95.386 95.445
		<b>HIP 53252</b>	Ref: 95.445 95.701
		<b>HIP 53253</b>	Ref: 95.697
		<b>HIP 53259</b>	Ref: 95.445
		<b>HIP 53261</b>	Ref: 95.062

<b>HIP 53265</b> Ref: 88.020 22.006 7.001	<b>HIP 53860</b> Ref: 95.684
<b>HIP 53270</b> Ref: 95.693	<b>HIP 53867</b> Ref: 94.203 76.025 71.018 64.009 61.002 58.001
<b>HIP 53274</b> Ref: 95.693	<b>HIP 53880</b> Ref: 95.388
<b>HIP 53290</b> Ref: 95.701 94.139	<b>HIP 53893</b> Ref: 95.701
<b>HIP 53294</b> Ref: 95.575	<b>HIP 53907</b> Ref: 95.419
<b>HIP 53295</b> Ref: 95.684	<b>HIP 53909</b> Ref: 95.693
<b>HIP 53300</b> Ref: 36.001	<b>HIP 53910</b> Ref: 95.033 95.280 95.684
<b>HIP 53311</b> Ref: 95.122 95.386 95.445 94.043	<b>HIP 53911</b> Ref: 95.234 95.605 95.606 95.696 88.118
<b>HIP 53316</b> Ref: 93.015	<b>HIP 53912</b> Ref: 95.388 95.693
<b>HIP 53329</b> Ref: 95.701	<b>HIP 53921</b> Ref: 95.336
<b>HIP 53355</b> Ref: 95.684	<b>HIP 53923</b> Ref: 94.449
<b>HIP 53379</b> Ref: 95.320 95.321 95.704 94.423 93.211 91.053 91.102 81.036 78.025	<b>HIP 53925</b> Ref: 95.336
<b>HIP 53397</b> Ref: 95.450 95.452 95.482 93.190 92.070 92.079 82.066 76.025 71.018 64.009 61.002 58.001 40.003 28.003 26.001 22.006 7.001	<b>HIP 53928</b> Ref: 95.701
<b>HIP 53401</b> Ref: 95.336	<b>HIP 53932</b> Comments: Possible period $p = 4.706d$ .
<b>HIP 53409</b> Ref: 95.701	<b>HIP 53937</b> Ref: 91.137 91.155 89.097 89.098 85.124 82.048 69.009
<b>HIP 53411</b> Ref: 95.704 94.423 93.211 91.102	<b>HIP 53940</b> Ref: 94.432
<b>HIP 53417</b> Ref: 95.684	<b>HIP 53944</b> Comments: Possible period $p = 1.2723d$ .
<b>HIP 53425</b> Ref: 95.001 95.093 95.268 95.397 94.040 94.103 93.118 92.051 92.111 90.116 88.054 85.200 81.071	<b>HIP 53945</b> Ref: 94.203 93.208 86.066 71.018 64.008 61.002 58.001 40.003 22.006
Comments: Possible period $p = 7.482d$ .	<b>HIP 53954</b> Ref: 95.684 93.066
<b>HIP 53429</b> Ref: 95.701	<b>HIP 53963</b> Ref: 95.684
<b>HIP 53444</b> Ref: 95.161 95.693 95.704 94.211 94.423 93.013 91.102 85.002 84.045 30.002	<b>HIP 53984</b> Ref: 94.406
Comments: Possible confirmation of period $p = 62d$ .	<b>HIP 53985</b> Ref: 95.277 94.449
<b>HIP 53449</b> Ref: 95.417 95.419 95.475 94.204 94.407 94.542	<b>HIP 53996</b> Ref: 95.693
<b>HIP 53461</b> Ref: 95.010 95.021 95.028 95.040 95.128 95.302 95.311 95.312 95.476 95.503 95.531 95.536 95.556 95.639 95.693 95.704 94.193 94.348 94.423 93.049 93.124 93.211 92.032 92.041 91.102 91.103 90.026 89.006 88.018 86.014 82.008 71.008 30.013	<b>HIP 53997</b> Ref: 95.388
<b>HIP 53479</b> Ref: 95.693	<b>HIP 53999</b> Ref: 95.336
Comments: Possible period $p = 17.03d$ .	<b>HIP 54003</b> Comments: Period may be half, type DSCT.
<b>HIP 53487</b> Comments: Period related to $p = 4.171d$ .	<b>HIP 54006</b> Ref: 95.336
<b>HIP 53503</b> Ref: 95.701	<b>HIP 54027</b> Ref: 95.445 95.684
<b>HIP 53530</b> Ref: 95.347 94.191 90.024	<b>HIP 54035</b> Ref: 95.277 95.475 95.671 94.007 94.188 94.410
<b>HIP 53536</b> Ref: 86.066 71.018 64.008 64.009 61.002 58.001 40.003 28.003 22.006	<b>HIP 54044</b> Ref: 95.336
Comments: Period has decreased.	<b>HIP 54056</b> Comments: Possible period $p = 4.910d$ .
<b>HIP 53560</b> Ref: 95.693	<b>HIP 54060</b> Ref: 95.270 95.739 90.015
<b>HIP 53567</b> Ref: 95.697	Comments: Confirmation of period from Ref 95.270.
<b>HIP 53589</b> Ref: 95.445 95.450 95.452 95.482 92.070 92.110 92.205 88.138 85.085 76.025 71.018 64.009 61.002 58.001 40.003 26.001 22.006 7.001	<b>HIP 54061</b> Ref: 95.062 93.015 93.092
<b>HIP 53593</b> Ref: 94.203 71.018 64.009 61.002 58.001 35.004	<b>HIP 54066</b> Ref: 64.009 61.002 58.001 42.003
<b>HIP 53607</b> Ref: 95.336	Comments: Brighter than expected. Other notes: D.
<b>HIP 53611</b> Ref: 95.693	<b>HIP 54075</b> Ref: 95.701
<b>HIP 53668</b> Ref: 95.445	<b>HIP 54083</b> Ref: 95.336
<b>HIP 53682</b> Ref: 92.162	<b>HIP 54101</b> Ref: 94.203 86.066 85.085 71.018 64.008 64.009 61.002 58.001 40.003 26.004 22.006
<b>HIP 53686</b> Ref: 95.388 95.693	<b>HIP 54108</b> Comments: Possible period $p = 3.013d$ .
<b>HIP 53699</b> Ref: 95.445	<b>HIP 54109</b> Ref: 95.445
<b>HIP 53703</b> Ref: 95.701	<b>HIP 54114</b> Ref: 95.336
<b>HIP 53719</b> Ref: 95.697	<b>HIP 54130</b> Ref: 95.206
<b>HIP 53721</b> Ref: 95.338 95.432 93.050	<b>HIP 54136</b> Ref: 95.684
<b>HIP 53732</b> Comments: Possible period $p = 1.4515d$ .	<b>HIP 54137</b> Ref: 95.445
<b>HIP 53737</b> Ref: 95.445	<b>HIP 54138</b> Ref: 95.701
<b>HIP 53740</b> Ref: 95.383 95.433 95.644 94.259 94.407	<b>HIP 54147</b> Ref: 94.414
<b>HIP 53743</b> Ref: 95.693	<b>HIP 54160</b> Ref: 95.701
<b>HIP 53759</b> Ref: 95.701	<b>HIP 54165</b> Comments: Period may be double.
<b>HIP 53763</b> Ref: 94.374	<b>HIP 54166</b> Ref: 95.336
<b>HIP 53771</b> Ref: 95.445	<b>HIP 54168</b> Ref: 95.704 94.423 93.211 91.102
<b>HIP 53791</b> Ref: 93.050	<b>HIP 54175</b> Ref: 95.693
<b>HIP 53807</b> Ref: 94.259	<b>HIP 54179</b> Ref: 95.693
<b>HIP 53809</b> Ref: 95.203 95.230 95.491 95.581 95.701 94.051 94.196 94.413 82.042 30.013 22.006 7.001	<b>HIP 54182</b> Ref: 95.419
<b>HIP 53818</b> Ref: 95.445	<b>HIP 54184</b> Ref: 95.693
<b>HIP 53824</b> Ref: 95.563 95.684	<b>HIP 54188</b> Ref: 89.128
<b>HIP 53838</b> Ref: 95.684 94.202	<b>HIP 54211</b> Ref: 94.407
<b>HIP 53850</b> Ref: 72.009	<b>HIP 54214</b> Ref: 95.445 95.684
<b>HIP 53854</b> Ref: 95.388	<b>HIP 54215</b> Ref: 94.202
	<b>HIP 54226</b> Ref: 94.208 94.519 91.166 86.155 82.055
	<b>HIP 54230</b> Comments: Possible period $p = 3.795d$ .
	<b>HIP 54255</b> Ref: 91.096 78.007 78.041 75.008 70.005 69.004
	<b>HIP 54257</b> Ref: 95.336 91.102
	<b>HIP 54264</b> Ref: 93.057
	<b>HIP 54266</b> Ref: 95.320 95.321 94.182 94.202 91.039 91.053 88.071 84.043
	<b>HIP 54283</b> Ref: 95.111 95.261 95.311 95.312 95.407 95.420 95.503 95.693 95.704 94.015 94.022 94.231 94.423 93.211 91.102 85.021 74.018

- HIP 54289** Ref: 95.704 94.423 91.102  
**HIP 54294** Ref: 94.414  
**HIP 54302** Ref: 95.701  
**HIP 54311** Ref: 95.684  
**HIP 54327** Ref: 95.336  
**HIP 54336** Ref: 95.445  
**HIP 54349** Ref: 95.445 95.732  
**HIP 54358** Ref: 95.388 95.693  
**HIP 54360** Ref: 91.053 85.042 85.045 84.043 83.058 78.025  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 54362** Ref: 95.445  
**HIP 54388** Ref: 95.684  
**HIP 54389** Comments: Possible period  $p = 0.6343d$ .  
**HIP 54396** Ref: 93.093 93.095  
 Comments: Possible period  $p = 17.21d$ .  
**HIP 54400** Ref: 95.386 95.445  
**HIP 54413** Ref: 95.077 95.137 95.161 95.336 95.605 94.004 94.014 94.030 94.049 94.122 94.211 94.250 94.411 93.041 91.102 91.184  
**HIP 54430** Ref: 95.684  
**HIP 54434** Ref: 95.701  
**HIP 54445** Ref: 95.445  
**HIP 54448** Ref: 95.693  
**HIP 54461** Ref: 84.072 76.001  
 Comments: Possible period  $p = 1.7067d$ .  
**HIP 54463** Ref: 95.736 94.259  
**HIP 54469** Ref: 95.445  
**HIP 54475** Ref: 95.693  
**HIP 54477** Ref: 95.684  
**HIP 54487** Ref: 95.684  
**HIP 54493** Ref: 95.701  
**HIP 54497** Ref: 95.320 95.321 91.053 86.040  
 Comments: According to Ref 86.040 possible period  $p = 13.5d$ .  
**HIP 54499** Ref: 95.693  
**HIP 54505** Ref: 95.701  
**HIP 54522** Ref: 95.419  
**HIP 54524** Ref: 95.388  
**HIP 54537** Ref: 94.542  
**HIP 54539** Ref: 94.134 93.015  
**HIP 54540** Ref: 95.327 95.684 94.202 84.043  
**HIP 54543** Ref: 94.414 92.110 85.054 71.018 64.008 64.009 61.002 58.001 26.001  
**HIP 54550** Ref: 95.693  
**HIP 54557** Ref: 94.014 94.211 93.041 91.102  
**HIP 54574** Ref: 95.693 94.022  
**HIP 54585** Ref: 95.701  
**HIP 54606** Ref: 95.693  
**HIP 54613** Comments: Possible period  $p = 3.731d$ .  
**HIP 54621** Ref: 95.411 95.450 95.452 94.299 86.002 76.025 71.018 64.009 61.002 58.001  
**HIP 54628** Comments: Possibly EA type.  
**HIP 54632** Ref: 93.092 90.059  
**HIP 54641** Ref: 95.122 95.697 94.043  
**HIP 54649** Ref: 95.701  
**HIP 54651** Ref: 95.445  
**HIP 54669** Ref: 95.693  
**HIP 54673** Ref: 95.558  
**HIP 54677** Ref: 95.445  
**HIP 54682** Ref: 95.134 95.684 94.265  
**HIP 54688** Ref: 95.684  
**HIP 54698** Ref: 95.701  
**HIP 54703** Ref: 95.671  
**HIP 54704** Ref: 95.386 95.445  
**HIP 54708** Comments: Possible period  $p = 15.74d$ .  
**HIP 54711** Comments: Period uncertain, but probably related.  
**HIP 54712** Ref: 95.336  
**HIP 54715** Ref: 86.002 85.054 71.018 64.008 64.009 61.002 58.001 40.001  
**HIP 54719** Ref: 95.445  
**HIP 54721** Ref: 95.684  
**HIP 54723** Ref: 90.088  
 Comments: Possible period  $p = 3.656d$ .  
**HIP 54727** Ref: 95.693  
**HIP 54738** Ref: 95.605 94.086 94.250 94.411 93.041  
**HIP 54742** Ref: 95.684 95.701  
**HIP 54745** Ref: 95.064 95.124 95.277 94.007 93.030  
**HIP 54751** Ref: 95.693  
**HIP 54754** Ref: 95.701  
**HIP 54764** Ref: 95.693  
**HIP 54765** Ref: 95.684 94.191 91.067  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 54772** Ref: 95.122 95.193 95.445 94.043  
**HIP 54779** Ref: 95.445  
**HIP 54780** Ref: 95.388  
**HIP 54792** Ref: 95.445  
**HIP 54799** Comments: Possible period  $p = 2.6872d$ .  
**HIP 54802** Ref: 95.445  
**HIP 54807** Ref: 95.197 95.396 95.412 95.414 93.266 92.164  
**HIP 54835** Ref: 94.206  
**HIP 54838** Ref: 95.701  
**HIP 54840** Ref: 95.137  
**HIP 54844** Ref: 93.015  
**HIP 54849** Ref: 95.684  
**HIP 54852** Ref: 95.336  
**HIP 54862** Ref: 95.039 95.411 95.450 95.452 95.693 94.299 90.004 71.018 64.009 61.002 58.001  
**HIP 54865** Comments: Period possibly half.  
**HIP 54866** Ref: 95.701  
**HIP 54872** Ref: 95.543 95.563 95.684 94.349 93.097  
**HIP 54879** Ref: 95.150 95.280 95.684 94.028 94.216 93.042 93.048 93.062  
**HIP 54885** Ref: 95.693  
**HIP 54891** Ref: 76.025 71.018 64.009 61.002 58.001  
**HIP 54902** Ref: 95.693  
**HIP 54923** Ref: 95.336  
**HIP 54924** Ref: 95.445  
**HIP 54930** Ref: 95.693  
**HIP 54933** Ref: 95.701  
**HIP 54948** Ref: 95.049 95.114 95.375 95.693  
**HIP 54951** Ref: 95.417 95.419 94.204  
**HIP 54958** Ref: 95.336 91.102  
**HIP 54960** Ref: 95.701  
**HIP 54971** Comments: Variations probably caused by component.  
**HIP 54974** Ref: 94.432  
 Comments: Possible period  $p = 6.858d$ .  
**HIP 54981** Ref: 95.150  
**HIP 54985** Ref: 90.087  
**HIP 54999** Comments: Possible period  $p = 1.5515d$ .  
**HIP 55000** Ref: 95.701  
**HIP 55001** Ref: 95.701  
**HIP 55002** Ref: 95.701  
**HIP 55013** Ref: 95.445  
**HIP 55016** Ref: 95.419 95.433 94.259 94.407 93.015 90.108  
**HIP 55022** Ref: 95.193 95.445 94.188  
**HIP 55030** Comments: Period possibly half.  
**HIP 55031** Comments: Double star with equal-magnitude components, processed as single. Separation 12 arcsec. Variability spurious.  
**HIP 55033** Ref: 95.445 95.684  
**HIP 55044** Ref: 95.087 95.122 94.043  
**HIP 55051** Ref: 95.098 95.388  
**HIP 55072** Ref: 95.336  
**HIP 55078** Ref: 95.388  
**HIP 55084** Ref: 95.143 95.684  
**HIP 55091** Ref: 95.701  
**HIP 55106** Ref: 95.094 95.327 95.684 94.202 91.053 84.043 73.019  
**HIP 55114** Ref: 95.693  
**HIP 55135** Ref: 95.389 95.392 94.053 94.138 94.188  
 Comments: No confirmation of period from Ref 95.389.  
**HIP 55137** Ref: 95.417 94.204  
**HIP 55146** Comments: Period uncertain.

- HIP 55152** Ref: 95.701  
**HIP 55164** Ref: 95.445  
**HIP 55165** Ref: 95.445  
**HIP 55169** Ref: 95.336  
**HIP 55173** Ref: 95.332 92.011  
**HIP 55183** Ref: 95.701  
**HIP 55203** Ref: 95.054 95.224 95.268 95.362 95.395  
 95.524 95.658 95.702 94.026 94.134 94.257 94.265  
 94.407 94.410 94.419 93.118 92.111 85.193 84.140  
 84.170  
 Comments: No reflection of spectroscopic periods in  
 photometry. Other notes: G.
- HIP 55207** Ref: 95.693  
**HIP 55209** Ref: 95.684  
**HIP 55219** Ref: 95.419  
**HIP 55222** Ref: 95.693  
**HIP 55225** Ref: 95.336  
**HIP 55237** Ref: 95.336  
**HIP 55238** Comments: Possible period  $p = 1.7143d$ .  
**HIP 55248** Ref: 95.701  
**HIP 55264** Ref: 95.701  
**HIP 55266** Ref: 95.150 95.684  
**HIP 55269** Ref: 95.701  
**HIP 55274** Comments: Possible period  $p = 2.1734d$ .  
**HIP 55280** Ref: 95.445  
**HIP 55282** Ref: 95.419 94.259  
**HIP 55292** Ref: 95.320 95.321 92.044 91.053 85.037  
**HIP 55308** Ref: 95.336  
**HIP 55332** Ref: 95.336  
**HIP 55344** Ref: 95.693  
**HIP 55350** Ref: 95.336 95.590  
**HIP 55360** Ref: 94.410 89.059 30.013  
**HIP 55363** Ref: 95.399 94.056 93.050  
**HIP 55381** Ref: 95.701  
**HIP 55417** Comments: Possible period  $p = 8.648d$ .  
**HIP 55420** Ref: 95.693  
**HIP 55446** Ref: 95.336  
**HIP 55454** Ref: 95.277 95.445  
**HIP 55457** Ref: 95.336  
**HIP 55480** Ref: 95.701  
**HIP 55485** Ref: 95.684  
**HIP 55497** Ref: 95.336  
**HIP 55499** Ref: 95.693  
**HIP 55505** Ref: 95.053 95.124 95.389 95.392 95.473  
 95.474 95.606 95.696  
 Comments: No confirmation of period from Ref  
 95.389.
- HIP 55508** Ref: 94.206  
**HIP 55509** Ref: 94.206  
**HIP 55523** Ref: 95.445  
**HIP 55524** Ref: 95.693  
**HIP 55532** Ref: 95.445  
**HIP 55537** Ref: 94.211  
**HIP 55541** Ref: 95.701  
**HIP 55550** Ref: 95.701  
**HIP 55564** Ref: 95.684  
**HIP 55570** Ref: 95.701  
**HIP 55577** Ref: 95.701  
**HIP 55592** Ref: 94.188  
**HIP 55598** Ref: 95.445 95.701 93.015 93.050  
**HIP 55639** Ref: 95.230 95.332 22.006  
**HIP 55641** Ref: 95.347 94.191 90.024  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.
- HIP 55642** Ref: 94.257 93.015 93.097  
**HIP 55644** Ref: 95.693  
**HIP 55657** Ref: 95.336 95.590  
**HIP 55687** Ref: 95.419  
**HIP 55691** Ref: 95.445  
**HIP 55700** Ref: 95.701  
**HIP 55705** Ref: 95.684 95.701  
**HIP 55707** Ref: 95.693  
**HIP 55712** Ref: 95.336  
**HIP 55726** Ref: 94.203 85.054 71.018 64.009 61.002  
 58.001
- HIP 55735** Ref: 95.336  
**HIP 55736** Ref: 95.039 95.411 95.450 95.452 94.301  
 93.190 89.154 86.002 85.054 82.056 76.025 71.018  
 64.009 61.002 58.001 47.001  
**HIP 55740** Ref: 95.701  
**HIP 55765** Ref: 95.445  
**HIP 55766** Ref: 95.389 95.392  
 Comments: No confirmation of period from Ref  
 95.389.
- HIP 55779** Ref: 95.445  
**HIP 55790** Ref: 95.087 95.122 95.445 95.697 94.043  
**HIP 55791** Ref: 95.684 93.015  
**HIP 55795** Comments: Possible period  $p = 28.87d$ .  
**HIP 55802** Ref: 95.701  
**HIP 55812** Ref: 95.701  
**HIP 55825** Ref: 95.297 95.378 95.379 95.697 94.123  
 94.236 94.282 94.286 94.409 93.111 93.263 82.054  
 77.031  
**HIP 55830** Ref: 95.701  
**HIP 55833** Ref: 95.693  
**HIP 55846** Ref: 95.445 94.259  
**HIP 55848** Ref: 95.445  
**HIP 55852** Ref: 95.445 94.271 94.280  
**HIP 55858** Ref: 95.445  
**HIP 55874** Ref: 95.445  
**HIP 55886** Ref: 95.336  
**HIP 55912** Ref: 95.445  
**HIP 55936** Ref: 95.230 95.783 30.013 22.006  
**HIP 55945** Ref: 95.385 94.175 94.216  
**HIP 55977** Ref: 95.693  
**HIP 55979** Ref: 95.336  
**HIP 55980** Ref: 95.336  
**HIP 55986** Ref: 95.336 95.693  
**HIP 55995** Ref: 95.693  
**HIP 56021** Ref: 95.515 95.693  
**HIP 56033** Ref: 95.693  
**HIP 56034** Ref: 95.684  
**HIP 56035** Ref: 94.188 93.050  
**HIP 56036** Ref: 95.693  
**HIP 56043** Ref: 95.697  
**HIP 56048** Ref: 95.688  
**HIP 56050** Ref: 95.693  
**HIP 56057** Ref: 95.693  
**HIP 56060** Comments: Possible period  $p = 2.1722d$ .  
**HIP 56061** Ref: 95.445  
**HIP 56074** Ref: 95.423 95.697  
**HIP 56078** Ref: 95.445  
**HIP 56082** Ref: 95.701  
**HIP 56083** Ref: 95.684  
**HIP 56088** Ref: 95.297 95.371 95.378 95.379 95.401  
 95.697 95.734 94.123 94.236 94.387 94.409 93.111  
 92.150 92.214 91.090 90.052 90.143 69.011 66.008  
 40.003  
**HIP 56089** Ref: 95.386 95.445  
**HIP 56109** Ref: 95.359 95.438 95.591 94.323 92.014  
 91.099 90.070  
**HIP 56127** Ref: 95.419  
**HIP 56132** Ref: 95.389 95.392  
 Comments: No confirmation of period from Ref  
 95.389.
- HIP 56133** Ref: 93.211 91.102  
**HIP 56134** Ref: 95.693  
**HIP 56135** Ref: 95.419 95.428 93.118 90.108 89.060  
 89.061 89.094 85.193 84.140 84.148  
 Comments: See Ref 89.061 about period variations.
- HIP 56139** Ref: 95.171  
**HIP 56144** Comments: Possible period  $p = 4.660d$ .  
**HIP 56156** Ref: 95.693  
**HIP 56163** Ref: 95.704 94.423 93.211 91.102  
**HIP 56165** Ref: 95.473 94.206  
**HIP 56170** Ref: 94.407  
**HIP 56176** Ref: 95.411 95.450 95.452 94.301 86.002  
 85.054 76.025 71.018 61.002 58.001  
**HIP 56179** Ref: 95.701  
**HIP 56191** Ref: 95.693

- HIP 56194** Ref: 95.062  
**HIP 56196** Ref: 95.336 95.693 75.001 30.008  
**HIP 56201** Ref: 95.445 95.693  
**HIP 56237** Ref: 95.693  
**HIP 56240** Ref: 95.336  
**HIP 56242** Ref: 95.124 95.277 95.671  
**HIP 56243** Ref: 95.704 94.423 93.211 91.102  
**HIP 56245** Ref: 95.445 95.701  
**HIP 56246** Ref: 95.336  
**HIP 56247** Ref: 95.472 95.693  
**HIP 56250** Ref: 95.693 94.367  
**HIP 56252** Ref: 95.336 95.693  
**HIP 56253** Ref: 95.684  
**HIP 56267** Comments: Possible period  $p = 4.474d$ . Other notes: D.  
**HIP 56269** Ref: 95.336  
**HIP 56290** Ref: 94.206  
**HIP 56300** Comments: Possible period  $p = 0.98161d$ .  
**HIP 56316** Ref: 93.211 91.102  
**HIP 56322** Ref: 95.098 95.494 95.547 94.055 94.322  
**HIP 56327** Ref: 95.347 95.445 94.191 94.217 93.122 90.024 83.020  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 56331** Ref: 95.693  
**HIP 56343** Ref: 94.259  
**HIP 56350** Ref: 94.236  
**HIP 56353** Comments: Possible period  $p = 34.63d$ .  
**HIP 56364** Ref: 95.445  
**HIP 56379** Ref: 95.077 95.336 94.030 94.211  
 Comments: Possible period  $p = 9.391d$  or related.  
**HIP 56389** Ref: 95.445  
**HIP 56391** Ref: 81.034  
**HIP 56395** Ref: 95.336  
**HIP 56396** Ref: 95.701  
**HIP 56409** Ref: 95.297 95.335 95.371 95.378 95.379 95.697 94.123 94.236 94.282 94.286 94.409 93.111 91.090 90.135 87.122 77.031 73.024 66.008  
**HIP 56422** Ref: 95.704 94.423 93.211 91.102  
**HIP 56429** Ref: 95.445 95.684  
**HIP 56435** Comments: Possible period  $p = 2.2015d$ .  
**HIP 56445** Ref: 95.445 95.658 95.671  
**HIP 56452** Ref: 95.445 94.410  
**HIP 56457** Ref: 95.336  
**HIP 56480** Ref: 95.137 94.198  
**HIP 56482** Ref: 95.445  
**HIP 56497** Ref: 95.445  
**HIP 56507** Ref: 93.211 91.102  
**HIP 56515** Ref: 95.701  
**HIP 56518** Ref: 94.196 94.204 92.011  
**HIP 56523** Ref: 95.283  
**HIP 56550** Ref: 95.693  
**HIP 56551** Ref: 95.426 95.606 94.116  
**HIP 56553** Ref: 95.684  
**HIP 56555** Ref: 92.011  
**HIP 56558** Ref: 95.704 94.423 93.211 91.102  
**HIP 56561** Ref: 95.095  
**HIP 56563** Ref: 95.693  
**HIP 56567** Comments: Possibly EA type.  
**HIP 56601** Ref: 95.684  
**HIP 56612** Ref: 95.693  
**HIP 56633** Ref: 95.634 94.198  
**HIP 56635** Ref: 95.423 95.697  
**HIP 56644** Ref: 95.445  
**HIP 56657** Ref: 95.445  
**HIP 56673** Ref: 95.336  
**HIP 56675** Ref: 95.336 95.445  
**HIP 56680** Ref: 95.336  
**HIP 56685** Ref: 89.059  
**HIP 56692** Ref: 95.336  
**HIP 56701** Ref: 95.693  
**HIP 56702** Comments: Possible period  $p = 3.819d$ .  
**HIP 56709** Ref: 95.347 94.202 81.036  
**HIP 56713** Ref: 95.445 95.697 94.280  
**HIP 56723** Ref: 95.336  
**HIP 56726** Ref: 95.336 95.388 95.693 94.247  
**HIP 56731** Ref: 94.036 94.148  
**HIP 56734** Ref: 95.297 95.378 95.379 95.401 95.697 94.123 94.236 94.286 94.409 93.111 92.150 92.214 91.090 91.120 90.052 82.054 78.048 69.011 66.024 40.003 30.013 22.006  
**HIP 56738** Ref: 94.256  
**HIP 56742** Ref: 87.043 82.041  
**HIP 56743** Ref: 95.336  
**HIP 56746** Ref: 95.701  
**HIP 56754** Ref: 81.036  
**HIP 56757** Ref: 95.336 95.515 95.693 94.247  
**HIP 56759** Ref: 95.347 94.191 91.028 90.024 90.025  
 Comments: Possible period  $p = 0.08991d$ .  
**HIP 56768** Ref: 95.150  
**HIP 56769** Ref: 95.336 95.693 94.247 92.151  
**HIP 56770** Ref: 95.385 95.684  
**HIP 56779** Ref: 95.419 95.499 94.542  
**HIP 56785** Ref: 95.378 95.697 94.236 94.282 94.286 94.409 93.111 93.128 91.090 77.031 66.008  
**HIP 56797** Ref: 95.336  
**HIP 56809** Ref: 94.257  
**HIP 56816** Ref: 95.684  
**HIP 56823** Ref: 95.701  
**HIP 56833** Ref: 95.336 95.388 95.693 94.247  
**HIP 56837** Ref: 95.087 95.122 94.043  
**HIP 56851** Ref: 93.073 93.118  
**HIP 56862** Ref: 95.772 93.073 93.092 93.118 92.111  
**HIP 56890** Ref: 95.336 95.693 94.247  
**HIP 56897** Ref: 95.301 95.336 95.693  
**HIP 56898** Ref: 71.018 64.009 61.002 58.001  
 Comments: Period has decreased.  
**HIP 56899** Comments: Possible period  $p = 4.211d$ .  
**HIP 56901** Ref: 95.684  
**HIP 56917** Ref: 95.089  
**HIP 56922** Ref: 93.211 91.102  
**HIP 56923** Comments: Possible period  $p = 47.12d$ .  
**HIP 56929** Ref: 93.211 91.102  
**HIP 56943** Ref: 95.336  
**HIP 56944** Ref: 95.218 95.684  
**HIP 56961** Ref: 95.693  
**HIP 56974** Ref: 95.268 94.047 94.125 93.118 92.111 89.060 26.003 22.006  
**HIP 56991** Ref: 95.450 95.452 93.149 93.190 76.025 71.018 64.009 61.002 58.001 22.006  
**HIP 56992** Ref: 95.137 95.559 94.215 93.211 91.102  
 Comments: Possible periods  $p = 6.748d$  and  $p = 4.322d$ .  
**HIP 56997** Ref: 95.011 95.064 95.124 95.163 95.268 95.277 95.475 95.658 95.671 94.007 94.407 94.410  
**HIP 56998** Ref: 95.445  
**HIP 57001** Ref: 95.445  
**HIP 57017** Ref: 95.445  
**HIP 57021** Ref: 95.445  
**HIP 57027** Ref: 95.336  
**HIP 57029** Ref: 95.193 94.188  
**HIP 57032** Ref: 95.336  
**HIP 57033** Ref: 95.693 93.211 91.102  
**HIP 57035** Ref: 95.283  
**HIP 57057** Ref: 93.211 91.102  
**HIP 57064** Ref: 95.693  
**HIP 57067** Ref: 95.336  
**HIP 57092** Ref: 95.445  
**HIP 57106** Ref: 95.693  
**HIP 57108** Ref: 95.336  
**HIP 57129** Ref: 95.359 94.323 93.199  
**HIP 57130** Ref: 95.450 95.482 94.203 92.079 82.066 76.025 71.018 64.009 58.001  
**HIP 57137** Ref: 95.445  
**HIP 57143** Ref: 95.336  
**HIP 57160** Ref: 94.101  
**HIP 57175** Ref: 95.336 95.431 82.088 81.015 81.033 81.082 80.013 80.062 79.007  
 Comments: Possible period  $p = 106.3d$ . See also Ref 80.062.



- HIP 57184** Ref: 95.336  
**HIP 57189** Ref: 95.336  
**HIP 57211** Ref: 95.336  
**HIP 57212** Ref: 95.336  
**HIP 57230** Ref: 95.336  
**HIP 57260** Ref: 93.190 85.054 81.076 76.025 71.018  
 64.009 61.002 58.001 22.006  
**HIP 57269** Ref: 95.004 95.277 95.287 93.073 85.186  
 84.159  
**HIP 57286** Ref: 95.445  
**HIP 57293** Ref: 93.211 91.102  
**HIP 57316** Ref: 95.336  
**HIP 57321** Ref: 95.445  
**HIP 57326** Ref: 89.070  
**HIP 57328** Ref: 95.684  
**HIP 57344** Ref: 95.445  
**HIP 57348** Ref: 93.092 80.036 65.005 24.003 24.004  
 22.006 7.001  
**HIP 57360** Ref: 95.122 95.445 95.697 94.043  
**HIP 57362** Ref: 92.162  
 Comments: Possible period  $p = 125d$ .  
**HIP 57363** Ref: 95.336  
**HIP 57380** Ref: 95.417 95.419 95.499 94.204 94.542  
 Comments: Possible period  $p = 252.4d$ .  
**HIP 57390** Ref: 95.336  
**HIP 57399** Ref: 95.390 95.419  
**HIP 57408** Comments: Possibly EA type.  
**HIP 57418** Ref: 95.336  
**HIP 57439** Ref: 91.102  
**HIP 57443** Ref: 94.095 94.259  
**HIP 57450** Ref: 95.445  
**HIP 57451** Ref: 95.336  
**HIP 57452** Ref: 94.202  
**HIP 57453** Ref: 95.336  
**HIP 57457** Ref: 95.336  
**HIP 57477** Ref: 95.062 95.390 94.407  
**HIP 57480** Comments: Possible period  $p = 2.656d$ .  
**HIP 57503** Ref: 95.701  
**HIP 57504** Comments: Possible period  $p = 230d$ .  
**HIP 57507** Ref: 95.386 95.445  
**HIP 57511** Ref: 95.336 95.693  
**HIP 57512** Ref: 95.137  
 Comments: Possible period  $p = 26.52d$ .  
**HIP 57533** Ref: 84.035  
 Comments: Spectroscopic period  $p = 1.79636d$  (Ref  
 84.035) not recognised.  
**HIP 57542** Ref: 95.693  
**HIP 57546** Ref: 95.336  
**HIP 57548** Ref: 94.267 94.410  
**HIP 57562** Ref: 95.684  
**HIP 57565** Ref: 95.062 95.268 95.356 95.419 95.430  
 95.684 95.694 95.702 94.134 94.175 94.216 94.419  
 93.092 93.118 92.111 90.108 89.060 86.095 85.193  
 84.140  
**HIP 57569** Ref: 95.336 95.681 95.693 95.704 94.423  
 93.211 91.102 81.004 80.019  
 Comments: Gradient over mission, star becomes 0.25  
 mag fainter.  
**HIP 57579** Ref: 95.283  
**HIP 57587** Ref: 95.399 95.445 94.056 93.050  
**HIP 57596** Ref: 95.336  
**HIP 57601** Ref: 89.070  
**HIP 57606** Ref: 95.684  
**HIP 57607** Comments: Possible period  $p = 2.5216d$ .  
**HIP 57613** Ref: 95.332 95.417 94.204 92.011  
**HIP 57625** Ref: 95.378 95.697 94.236 93.111 93.128  
 92.214 82.054 77.031  
**HIP 57629** Ref: 95.399 95.445 94.056 94.188 94.259  
 94.266 93.050  
**HIP 57632** Ref: 95.012 95.033 95.069 95.313 95.347  
 95.515 95.563 95.684 94.234 93.097 91.139  
**HIP 57642** Ref: 95.588 95.692 89.031 88.020 86.048  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 57644** Ref: 95.336  
**HIP 57646** Ref: 95.684 95.701  
**HIP 57649** Ref: 95.450 95.452 93.149 91.102 71.018  
 67.011 64.009 61.002 36.004  
 Comments: Ref 67.011: beat period  $p = 7.574d$ .  
**HIP 57655** Comments: Possible period  $p = 21.93d$ .  
**HIP 57669** Ref: 95.336 94.198  
**HIP 57677** Ref: 95.336  
**HIP 57714** Ref: 95.697  
**HIP 57718** Ref: 95.336  
**HIP 57737** Comments: Possible period  $p = 0.9507d$ .  
 Other notes: G.  
**HIP 57741** Ref: 95.336 95.693  
**HIP 57757** Ref: 95.193 95.379 95.383 95.399 95.432  
 95.433 95.644 95.658 95.698 94.056 94.188 94.407  
 93.050  
**HIP 57762** Ref: 95.336  
**HIP 57765** Ref: 95.336  
**HIP 57768** Ref: 95.701  
**HIP 57771** Ref: 95.701  
**HIP 57779** Ref: 95.684  
**HIP 57787** Ref: 95.445 94.280  
**HIP 57791** Ref: 95.445 93.092 85.029  
**HIP 57796** Ref: 95.089 95.336  
**HIP 57802** Ref: 94.410  
**HIP 57805** Ref: 95.684  
**HIP 57808** Ref: 95.336 95.693  
 Comments: Possible period  $p = 2.9799d$ .  
**HIP 57812** Ref: 86.001  
**HIP 57814** Ref: 95.336  
**HIP 57819** Ref: 95.445 95.684  
**HIP 57827** Ref: 95.701  
**HIP 57828** Ref: 94.280  
**HIP 57841** Ref: 95.445  
**HIP 57850** Ref: 95.259 95.383 95.433 95.445 95.697  
 94.271 94.280 93.130 86.114  
**HIP 57875** Ref: 95.701  
**HIP 57884** Ref: 92.070 83.090 71.018 64.008 64.009  
 61.002 58.001 30.008  
**HIP 57895** Ref: 95.336 22.006  
**HIP 57898** Ref: 95.701  
**HIP 57900** Ref: 94.280  
**HIP 57907** Ref: 95.336  
**HIP 57917** Ref: 95.230 94.196 94.413 22.006 7.001  
 Comments: About 2 to 3 mag brighter than  
 expected.  
**HIP 57920** Ref: 95.701  
**HIP 57936** Ref: 94.165 93.211 91.053 91.102 85.042  
 84.043 83.058  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 57939** Ref: 95.193 95.211 95.373 95.383 95.445  
 95.510 95.671 94.188 94.256 94.267 94.270 94.407  
 94.410  
**HIP 57947** Ref: 95.336  
**HIP 57952** Ref: 95.701  
**HIP 57963** Ref: 95.336  
**HIP 57966** Ref: 95.701  
**HIP 57973** Ref: 95.336  
**HIP 57978** Ref: 95.039 95.411 95.450 95.452 94.301  
 86.002 76.025 71.018 64.009 61.002 58.001 36.006  
**HIP 57982** Ref: 95.423 95.697  
**HIP 57983** Ref: 95.445 94.271  
**HIP 57996** Ref: 95.336  
**HIP 57998** Ref: 94.406  
**HIP 58001** Ref: 95.143 95.563 95.580 95.684  
**HIP 58002** Ref: 95.445 95.563 95.684  
**HIP 58024** Ref: 95.336  
**HIP 58025** Ref: 95.701  
**HIP 58034** Ref: 95.701  
**HIP 58046** Ref: 95.701  
**HIP 58057** Ref: 95.445  
**HIP 58059** Comments: Possible period  $p = 43.36d$ .  
**HIP 58085** Ref: 95.336  
**HIP 58087** Ref: 95.336 95.693  
**HIP 58093** Ref: 95.445  
**HIP 58103** Ref: 95.336 95.445 95.693

<b>HIP 58106</b> Ref: 95.445	<b>HIP 58593</b> Ref: 95.701
<b>HIP 58107</b> Ref: 95.692 88.020 86.048 81.016 77.027 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 58596</b> Comments: Possible period $p = 3.082d$ .
<b>HIP 58112</b> Ref: 95.684 94.298 86.057 86.154 84.064 Comments: Period uncertain.	<b>HIP 58603</b> Ref: 95.445
<b>HIP 58117</b> Ref: 95.684	<b>HIP 58604</b> Ref: 95.701
<b>HIP 58126</b> Ref: 95.336	<b>HIP 58605</b> Ref: 93.171 88.089 86.141 69.008 58.002
<b>HIP 58127</b> Ref: 95.336	<b>HIP 58611</b> Ref: 95.445
<b>HIP 58128</b> Ref: 95.336	<b>HIP 58613</b> Ref: 95.336
<b>HIP 58139</b> Ref: 95.445	<b>HIP 58630</b> Ref: 95.336
<b>HIP 58145</b> Ref: 95.445 94.256	<b>HIP 58642</b> Ref: 91.102
<b>HIP 58146</b> Ref: 95.336	<b>HIP 58669</b> Ref: 95.445
<b>HIP 58150</b> Comments: Possibly EA type.	<b>HIP 58674</b> Ref: 95.336
<b>HIP 58157</b> Comments: Period may be double.	<b>HIP 58679</b> Ref: 95.701
<b>HIP 58159</b> Ref: 95.684 95.701	<b>HIP 58682</b> Ref: 95.445
<b>HIP 58179</b> Ref: 95.029	<b>HIP 58684</b> Ref: 95.347 95.483 95.684 94.191 90.024 Comments: Data inadequate for confirmation of period from Ref 94.191.
<b>HIP 58184</b> Ref: 95.283	<b>HIP 58697</b> Ref: 95.558
<b>HIP 58188</b> Ref: 95.684 95.701	<b>HIP 58701</b> Ref: 95.701
<b>HIP 58204</b> Ref: 95.283	<b>HIP 58720</b> Ref: 95.336
<b>HIP 58220</b> Ref: 95.336	<b>HIP 58723</b> Ref: 95.283
<b>HIP 58225</b> Ref: 95.230 94.379 30.012 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 58736</b> Ref: 95.336
<b>HIP 58229</b> Ref: 95.445	<b>HIP 58738</b> Ref: 95.336
<b>HIP 58242</b> Ref: 95.445	<b>HIP 58748</b> Ref: 95.336 95.693
<b>HIP 58265</b> Ref: 95.336	<b>HIP 58754</b> Ref: 95.693
<b>HIP 58266</b> Ref: 95.336 95.693	<b>HIP 58758</b> Ref: 95.336 83.020
<b>HIP 58272</b> Ref: 86.042	<b>HIP 58766</b> Ref: 95.701
<b>HIP 58278</b> Ref: 95.336 95.693	<b>HIP 58783</b> Ref: 95.336 95.693
<b>HIP 58285</b> Ref: 94.211 93.041 93.084	<b>HIP 58794</b> Ref: 95.336
<b>HIP 58326</b> Ref: 95.336	<b>HIP 58803</b> Ref: 95.445 94.174
<b>HIP 58327</b> Ref: 95.701	<b>HIP 58831</b> Ref: 95.697
<b>HIP 58328</b> Comments: Possible period $p = 15.39d$ .	<b>HIP 58843</b> Ref: 95.445
<b>HIP 58345</b> Ref: 95.427 95.445 94.410	<b>HIP 58854</b> Ref: 94.220 89.031 88.020 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 58350</b> Ref: 95.336 95.693	<b>HIP 58855</b> Ref: 95.701
<b>HIP 58351</b> Ref: 95.336	<b>HIP 58858</b> Ref: 95.684 95.701
<b>HIP 58357</b> Ref: 94.188 94.389	<b>HIP 58861</b> Ref: 95.701
<b>HIP 58359</b> Comments: Possible period $p = 0.45614d$ .	<b>HIP 58865</b> Ref: 94.174
<b>HIP 58360</b> Comments: Double star processed as single. Separation 16 arcsec. Suspected variability spurious.	<b>HIP 58866</b> Comments: Possible period $p = 3.885d$ .
<b>HIP 58367</b> Ref: 95.336	<b>HIP 58867</b> Ref: 95.336
<b>HIP 58369</b> Ref: 95.684	<b>HIP 58884</b> Ref: 95.336
<b>HIP 58378</b> Ref: 95.445	<b>HIP 58885</b> Ref: 95.336
<b>HIP 58391</b> Ref: 95.336 95.693	<b>HIP 58893</b> Ref: 95.701
<b>HIP 58401</b> Ref: 95.445	<b>HIP 58896</b> Ref: 95.259 95.445 95.697 94.280 93.130
<b>HIP 58402</b> Ref: 95.336	<b>HIP 58901</b> Ref: 95.336
<b>HIP 58404</b> Ref: 95.445	<b>HIP 58910</b> Ref: 95.336 95.693
<b>HIP 58410</b> Ref: 95.336	<b>HIP 58915</b> Ref: 95.336
<b>HIP 58427</b> Ref: 95.336 95.693	<b>HIP 58922</b> Ref: 95.336
<b>HIP 58436</b> Ref: 95.684	<b>HIP 58946</b> Comments: Possible period $p = 1.7513d$ .
<b>HIP 58445</b> Ref: 95.445	<b>HIP 58948</b> Ref: 95.419 95.499 95.567 94.036 94.148
<b>HIP 58456</b> Ref: 95.336	<b>HIP 58949</b> Ref: 95.445
<b>HIP 58462</b> Ref: 95.283	<b>HIP 58952</b> Ref: 94.209
<b>HIP 58467</b> Ref: 95.701	<b>HIP 58954</b> Ref: 95.055 95.693 94.022 94.408
<b>HIP 58469</b> Ref: 95.336 95.693	<b>HIP 58960</b> Ref: 95.336
<b>HIP 58478</b> Ref: 95.701	<b>HIP 58962</b> Ref: 95.445
<b>HIP 58479</b> Ref: 95.701	<b>HIP 58963</b> Ref: 95.701
<b>HIP 58484</b> Ref: 95.336	<b>HIP 58992</b> Ref: 95.150
<b>HIP 58488</b> Ref: 95.336	<b>HIP 58998</b> Ref: 95.336 95.693 89.017 84.072
<b>HIP 58509</b> Ref: 95.388 95.693	<b>HIP 59003</b> Ref: 95.336
<b>HIP 58510</b> Ref: 95.684	<b>HIP 59005</b> Ref: 95.445
<b>HIP 58512</b> Ref: 95.684	<b>HIP 59010</b> Ref: 95.445
<b>HIP 58514</b> Ref: 94.280	<b>HIP 59026</b> Ref: 56.002
<b>HIP 58519</b> Ref: 95.697 94.196 92.011 92.162	<b>HIP 59043</b> Ref: 95.336
<b>HIP 58520</b> Ref: 95.336 94.014 94.030 94.211 93.041 Comments: Possible period $p = 1.6214d$ .	<b>HIP 59045</b> Ref: 95.336
<b>HIP 58537</b> Ref: 95.701	<b>HIP 59046</b> Ref: 95.445
<b>HIP 58544</b> Ref: 95.336	<b>HIP 59050</b> Ref: 95.336
<b>HIP 58562</b> Ref: 95.701	<b>HIP 59069</b> Ref: 95.336
<b>HIP 58576</b> Ref: 95.388 95.445	<b>HIP 59070</b> Ref: 95.336
<b>HIP 58584</b> Ref: 95.336	<b>HIP 59072</b> Ref: 95.336 95.732 93.015
<b>HIP 58587</b> Ref: 95.701 Comments: Period may be double.	<b>HIP 59084</b> Ref: 95.336
<b>HIP 58590</b> Ref: 95.684	<b>HIP 59093</b> Ref: 95.336
<b>HIP 58591</b> Ref: 94.209	<b>HIP 59101</b> Ref: 95.336 95.693
	<b>HIP 59106</b> Ref: 95.336
	<b>HIP 59107</b> Ref: 95.701
	<b>HIP 59108</b> Ref: 71.007 30.013 22.006 7.001
	<b>HIP 59109</b> Ref: 95.445 94.389

<b>HIP 59111</b> Ref: 95.336	<b>HIP 59517</b> Ref: 95.336 95.693
<b>HIP 59112</b> Ref: 95.336	<b>HIP 59527</b> Ref: 95.347 95.739 94.246 93.284
<b>HIP 59116</b> Ref: 95.336	Comments: No indication of variability found for GM Com. Other notes: G.
<b>HIP 59120</b> Ref: 83.038	<b>HIP 59528</b> Ref: 95.336 95.704 94.423 93.211 91.102
<b>HIP 59122</b> Ref: 95.336	<b>HIP 59532</b> Ref: 95.445
<b>HIP 59143</b> Ref: 85.147	<b>HIP 59546</b> Ref: 95.336
<b>HIP 59148</b> Ref: 93.092 90.059	<b>HIP 59549</b> Comments: Possible period $p = 4.153d$ .
<b>HIP 59158</b> Ref: 95.445	<b>HIP 59551</b> Ref: 95.336 95.580 94.254 92.070 92.110
<b>HIP 59160</b> Ref: 95.701	90.147 89.154 88.108 85.054 76.021 71.018 64.008
<b>HIP 59169</b> Ref: 94.226	64.009 61.002 58.001 58.003 40.003 22.006 7.001
<b>HIP 59171</b> Ref: 95.701	<b>HIP 59554</b> Ref: 95.701
<b>HIP 59173</b> Ref: 94.186 94.248	<b>HIP 59571</b> Ref: 95.701
<b>HIP 59184</b> Ref: 95.445	<b>HIP 59575</b> Ref: 94.203 92.079 76.025 71.018 64.009
<b>HIP 59195</b> Ref: 95.701	61.002 58.001 36.007
<b>HIP 59196</b> Ref: 95.104 95.325 94.186 94.198 94.403	<b>HIP 59588</b> Ref: 93.095
Comments: Star becomes 0.12 mag brighter over mission.	<b>HIP 59594</b> Ref: 95.060 95.150 95.445
<b>HIP 59199</b> Ref: 95.064 95.193 95.732 94.188	<b>HIP 59596</b> Ref: 95.701
<b>HIP 59208</b> Ref: 95.297 95.335 95.378 95.379 95.401	<b>HIP 59600</b> Ref: 95.052 95.583 95.694 94.145 94.169
95.697 94.123 94.236 94.282 94.286 94.409 93.111	94.281 93.092 93.118 92.111 91.104 89.060 84.151
92.150 92.214 91.090 90.052 88.039 77.031 73.024	<b>HIP 59608</b> Ref: 95.684 95.701 83.020
66.008 66.015	<b>HIP 59635</b> Ref: 95.336
<b>HIP 59213</b> Ref: 95.336	<b>HIP 59636</b> Ref: 95.701
<b>HIP 59217</b> Ref: 95.701	<b>HIP 59647</b> Ref: 95.445
<b>HIP 59229</b> Comments: Period uncertain.	<b>HIP 59653</b> Ref: 95.336 95.693
<b>HIP 59231</b> Ref: 94.143	<b>HIP 59663</b> Ref: 95.336 95.693
<b>HIP 59232</b> Ref: 94.198	<b>HIP 59672</b> Ref: 95.445
<b>HIP 59239</b> Ref: 95.259 95.697 94.280	<b>HIP 59673</b> Ref: 95.697
<b>HIP 59243</b> Ref: 95.336	<b>HIP 59674</b> Ref: 95.336
<b>HIP 59250</b> Ref: 95.701	<b>HIP 59676</b> Ref: 95.202 95.347 95.483 95.729 95.786
<b>HIP 59251</b> Ref: 95.336	94.081 94.191 90.024 90.125 83.020
<b>HIP 59265</b> Ref: 95.336 73.010	Comments: Period from Ref 94.191 confirmed.
<b>HIP 59266</b> Ref: 95.336	<b>HIP 59678</b> Ref: 95.336
<b>HIP 59267</b> Ref: 94.120 30.013 28.002 22.006 7.001	<b>HIP 59679</b> Ref: 95.336 94.189
<b>HIP 59271</b> Ref: 95.546	<b>HIP 59683</b> Ref: 95.237 95.438 94.158 77.039 58.002
<b>HIP 59275</b> Ref: 95.701	<b>HIP 59689</b> Ref: 95.336 95.693
<b>HIP 59281</b> Ref: 95.336	<b>HIP 59698</b> Ref: 95.336 95.693
<b>HIP 59282</b> Ref: 95.336	<b>HIP 59699</b> Ref: 95.122 95.697 94.043
<b>HIP 59288</b> Ref: 95.336 95.388 95.693 94.189	<b>HIP 59714</b> Ref: 95.336
<b>HIP 59291</b> Ref: 93.015	<b>HIP 59736</b> Ref: 93.092 90.059
<b>HIP 59296</b> Ref: 95.445	<b>HIP 59737</b> Ref: 95.701
<b>HIP 59309</b> Ref: 95.684 83.020	<b>HIP 59739</b> Ref: 95.701
<b>HIP 59316</b> Ref: 93.015	<b>HIP 59747</b> Ref: 95.232 95.494
<b>HIP 59330</b> Ref: 94.188	Comments: Possible period $p = 0.0966d$ .
<b>HIP 59334</b> Ref: 95.697	<b>HIP 59750</b> Ref: 95.087 95.122 95.193 95.383 95.432
<b>HIP 59346</b> Ref: 95.347 94.191 91.153	95.433 95.671 94.043 94.056 94.188 94.256 94.407
Comments: Data inadequate for confirmation of period from Ref 94.191.	93.050
<b>HIP 59351</b> Ref: 95.701	<b>HIP 59769</b> Ref: 95.336
<b>HIP 59352</b> Ref: 95.684 95.701	<b>HIP 59774</b> Ref: 95.684
<b>HIP 59353</b> Ref: 95.445	<b>HIP 59786</b> Ref: 95.704 94.423 93.211 91.102
<b>HIP 59364</b> Ref: 95.684 94.246	<b>HIP 59792</b> Ref: 95.336
<b>HIP 59394</b> Ref: 95.684	<b>HIP 59793</b> Ref: 95.445
<b>HIP 59396</b> Ref: 95.336 95.445	<b>HIP 59796</b> Ref: 95.062 95.268 95.430 95.694 95.698
<b>HIP 59405</b> Ref: 95.171	95.702 94.125 94.134 94.145 94.175 94.216 94.265
<b>HIP 59411</b> Ref: 95.410 94.236 93.116	94.419 93.092 93.118 92.111 89.060 85.193 84.140
Comments: Observed amplitude smaller than given in literature.	84.170
<b>HIP 59422</b> Ref: 95.202 95.729	Comments: Photometric period longer than spectroscopic period by 5 per cent.
<b>HIP 59449</b> Ref: 95.314	<b>HIP 59799</b> Ref: 95.336 95.693
<b>HIP 59457</b> Ref: 95.336	<b>HIP 59803</b> Ref: 95.313 95.701
<b>HIP 59459</b> Ref: 93.092	<b>HIP 59804</b> Ref: 95.701
<b>HIP 59465</b> Ref: 95.701	<b>HIP 59809</b> Ref: 95.336
<b>HIP 59483</b> Ref: 95.278 95.704 94.423 93.211 93.252	<b>HIP 59819</b> Ref: 95.684 95.701
91.102 88.032 88.055 88.112 84.107 84.127 84.160	<b>HIP 59823</b> Ref: 95.336 95.693
22.006	<b>HIP 59830</b> Ref: 95.336
<b>HIP 59487</b> Ref: 95.336	<b>HIP 59831</b> Ref: 95.417 95.419
<b>HIP 59488</b> Ref: 95.336 95.693	<b>HIP 59833</b> Ref: 94.246
<b>HIP 59490</b> Ref: 94.188 94.256	<b>HIP 59837</b> Ref: 95.423 95.697
<b>HIP 59495</b> Ref: 95.336	<b>HIP 59844</b> Comments: Ephemeris based on AAVSO data.
<b>HIP 59501</b> Ref: 95.419	<b>HIP 59851</b> Ref: 95.336
<b>HIP 59502</b> Ref: 95.336	<b>HIP 59852</b> Ref: 95.701 94.221
<b>HIP 59503</b> Ref: 95.336	<b>HIP 59856</b> Ref: 95.062 93.092
<b>HIP 59504</b> Ref: 95.684 95.746	<b>HIP 59879</b> Ref: 93.050
Comments: Period from Ref 95.746 confirmed.	<b>HIP 59889</b> Ref: 95.697
	<b>HIP 59891</b> Ref: 95.336

- HIP 59895** Ref: 95.684 95.701  
**HIP 59898** Ref: 95.336  
**HIP 59916** Ref: 95.701  
**HIP 59919** Ref: 95.336  
**HIP 59921** Comments: Period may be double.  
**HIP 59923** Ref: 95.684  
**HIP 59935** Ref: 95.286 95.693 94.020  
 Comments: Data from Hipparcos and literature give  $p = 3.413319d$  (5645 cycles).  
**HIP 59946** Ref: 95.050 95.297 95.378 95.379 95.697  
 94.123 94.236 94.409 93.111 89.023 88.039 87.068  
 40.003 30.013 22.006  
**HIP 59955** Ref: 95.701  
**HIP 59959** Ref: 95.336  
**HIP 59961** Ref: 95.202 95.729  
**HIP 59969** Ref: 95.701  
**HIP 59970** Ref: 95.520  
**HIP 59976** Ref: 95.336  
**HIP 59980** Ref: 95.701  
**HIP 59982** Ref: 95.336  
**HIP 59983** Ref: 95.445  
**HIP 59984** Ref: 95.445  
**HIP 59992** Ref: 95.701  
**HIP 59995** Ref: 95.701 95.710 81.008  
 Comments: Light curve behaviour over 90 years.  
 Shape constant but phase changes. Epoch of  
 maximum BJD 2 444 056.322, period  $p = 0.448 609 0d$   
 (Ref 95.710).  
**HIP 59996** Ref: 95.482 94.203 93.190 92.070 76.025  
 71.018 64.009 61.002 58.001  
**HIP 60000** Ref: 95.336 95.515  
**HIP 60009** Ref: 95.336 95.642  
**HIP 60012** Ref: 95.336  
**HIP 60018** Ref: 95.684 93.015  
**HIP 60025** Ref: 93.064  
**HIP 60030** Ref: 95.684  
**HIP 60035** Ref: 95.336  
**HIP 60044** Ref: 95.684 94.209  
**HIP 60065** Ref: 95.701  
**HIP 60066** Ref: 95.347 95.684 94.191 94.246 93.106  
 93.158 93.284 90.024 85.020 84.065 84.177 83.020  
 71.014  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 60067** Ref: 95.283  
**HIP 60078** Ref: 95.336  
**HIP 60087** Ref: 95.684  
**HIP 60090** Ref: 95.336  
**HIP 60091** Ref: 95.701  
**HIP 60092** Ref: 95.701  
**HIP 60095** Ref: 95.701  
**HIP 60097** Ref: 94.246 94.407  
**HIP 60098** Ref: 95.432 95.671 94.188 93.050  
**HIP 60106** Ref: 95.588 95.692 88.020 81.016 77.027  
 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 60119** Ref: 95.336  
**HIP 60123** Ref: 94.407  
**HIP 60128** Ref: 95.336 95.693  
**HIP 60129** Ref: 95.684 94.188  
**HIP 60134** Ref: 95.060  
**HIP 60168** Ref: 95.684 93.015  
**HIP 60172** Ref: 94.175 94.216  
**HIP 60180** Ref: 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 60181** Ref: 95.701  
**HIP 60183** Ref: 95.336  
**HIP 60188** Ref: 95.697  
**HIP 60189** Ref: 87.141  
**HIP 60214** Ref: 95.336  
**HIP 60238** Ref: 95.336  
**HIP 60259** Ref: 94.176 92.110 89.154 86.002 76.025  
 71.018 64.009 61.002 58.001 58.003 22.006 7.001  
**HIP 60261** Ref: 95.336  
**HIP 60266** Ref: 94.191 94.407 91.067  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 60273** Comments: Possible period  $p = 17.65d$ .  
**HIP 60278** Ref: 95.336  
**HIP 60287** Ref: 95.336  
**HIP 60293** Ref: 94.407  
**HIP 60299** Ref: 94.174  
**HIP 60304** Ref: 94.407  
**HIP 60309** Ref: 95.336  
**HIP 60313** Ref: 95.701  
**HIP 60320** Ref: 95.336 83.020  
**HIP 60327** Ref: 95.684  
**HIP 60331** Ref: 94.419 93.118 89.060  
**HIP 60334** Ref: 95.336  
**HIP 60339** Ref: 95.693  
**HIP 60347** Ref: 94.407  
**HIP 60351** Ref: 95.419 95.684 94.289 90.108  
**HIP 60353** Ref: 95.445  
**HIP 60361** Ref: 95.336  
**HIP 60364** Ref: 93.092  
**HIP 60376** Ref: 95.336  
**HIP 60379** Ref: 91.102  
**HIP 60387** Ref: 95.445 95.697 94.280  
**HIP 60406** Ref: 94.407  
**HIP 60415** Ref: 95.701  
**HIP 60417** Ref: 95.445 93.211 91.102  
**HIP 60419** Ref: 95.701  
**HIP 60421** Comments: Possible period  $p = 1.6026d$ .  
**HIP 60429** Ref: 94.189  
**HIP 60449** Ref: 94.278  
**HIP 60454** Ref: 95.445  
**HIP 60455** Ref: 95.336 94.176 93.190 92.110 90.004  
 76.025 71.018 64.009 61.002 58.001 58.003 40.003  
 22.006 7.001  
**HIP 60458** Ref: 94.246  
**HIP 60459** Ref: 95.336  
**HIP 60467** Ref: 95.073 95.347 95.483 95.684 94.191  
 93.097 93.161 90.011 90.024 90.146 86.113  
 Comments: Possible period  $p = 0.2383d$ .  
**HIP 60469** Ref: 95.336  
**HIP 60471** Ref: 94.206  
**HIP 60473** Ref: 95.701  
**HIP 60490** Ref: 94.246  
**HIP 60500** Ref: 92.011  
**HIP 60508** Ref: 95.336  
**HIP 60513** Ref: 95.336  
**HIP 60514** Ref: 95.684  
**HIP 60522** Ref: 94.206  
**HIP 60525** Ref: 95.684 94.246  
**HIP 60534** Ref: 22.006 7.001  
**HIP 60541** Ref: 94.256  
**HIP 60551** Ref: 95.087 95.122 94.043  
**HIP 60552** Ref: 95.336  
**HIP 60555** Ref: 93.092 85.193  
**HIP 60561** Ref: 95.336  
**HIP 60570** Ref: 95.336 95.693  
**HIP 60580** Ref: 95.336  
**HIP 60582** Ref: 95.171 95.268 95.430 95.698 95.702  
 94.047 94.125 94.265 94.419 93.064 93.118  
 Comments: Spectroscopic period not recognised in  
 photometry.  
**HIP 60591** Ref: 94.289  
**HIP 60595** Ref: 95.684  
**HIP 60601** Ref: 95.445 93.057  
**HIP 60604** Ref: 95.701  
**HIP 60611** Ref: 94.246 94.407  
**HIP 60627** Ref: 95.336  
**HIP 60632** Ref: 95.087 95.122 95.193 95.235 95.383  
 95.433 95.445 94.043 94.188 94.256 94.389 94.407  
**HIP 60641** Ref: 95.445  
**HIP 60646** Ref: 85.090  
**HIP 60667** Ref: 95.701  
 Comments: Possibly EA type.  
**HIP 60694** Ref: 22.006

<b>HIP 60697</b> Ref: 95.143 95.684 94.202 93.165	<b>HIP 61066</b> Ref: 95.336
<b>HIP 60718</b> Ref: 95.468 83.021	<b>HIP 61071</b> Ref: 95.327 95.347 95.492 95.684 95.701
Comments: No confirmation of period from Ref 83.021.	94.139 94.202 93.264 89.086 84.043 81.048 80.007 73.016
<b>HIP 60719</b> Ref: 95.445 95.697	<b>HIP 61074</b> Ref: 95.697 94.246
<b>HIP 60720</b> Ref: 95.283 95.701	<b>HIP 61075</b> Ref: 95.701
<b>HIP 60729</b> Ref: 95.399 95.445 94.056 93.050	<b>HIP 61079</b> Ref: 95.336
<b>HIP 60737</b> Ref: 95.336 95.693	<b>HIP 61084</b> Ref: 95.599 95.613 95.625 94.264
<b>HIP 60742</b> Ref: 95.390 95.398 95.625	<b>HIP 61087</b> Ref: 95.336
<b>HIP 60746</b> Ref: 95.684 94.246	<b>HIP 61100</b> Ref: 95.043
<b>HIP 60765</b> Ref: 95.701	<b>HIP 61104</b> Ref: 95.701
<b>HIP 60766</b> Ref: 95.701	<b>HIP 61111</b> Ref: 95.701
<b>HIP 60771</b> Ref: 95.336	<b>HIP 61115</b> Ref: 95.336
<b>HIP 60772</b> Ref: 95.701	<b>HIP 61118</b> Ref: 94.256
Comments: The double-star analysis indicates that it is the fainter (B) component which is variable. Other notes: D.	<b>HIP 61119</b> Ref: 95.701 94.202
<b>HIP 60776</b> Ref: 95.492 95.701	<b>HIP 61120</b> Ref: 95.492 95.701
<b>HIP 60779</b> Ref: 95.122 95.697 94.043	<b>HIP 61135</b> Ref: 95.701
<b>HIP 60804</b> Ref: 95.526 95.701	<b>HIP 61136</b> Ref: 95.039 95.336 95.411 95.450 95.452 94.301 92.110 89.154 86.002 85.054
<b>HIP 60813</b> Ref: 95.347 95.445 95.684 91.139 90.024 84.161	<b>HIP 61138</b> Ref: 95.283 95.492 95.701
<b>HIP 60817</b> Ref: 95.684	<b>HIP 61151</b> Ref: 95.492 95.701
<b>HIP 60825</b> Ref: 95.336	<b>HIP 61158</b> Ref: 95.336
<b>HIP 60836</b> Ref: 95.701	<b>HIP 61162</b> Ref: 95.701
<b>HIP 60846</b> Ref: 95.445 95.697	<b>HIP 61174</b> Ref: 95.419 95.558 95.684
<b>HIP 60851</b> Ref: 95.336 95.445	<b>HIP 61186</b> Comments: Possible period $p = 13.81d$ .
<b>HIP 60853</b> Ref: 95.445	<b>HIP 61187</b> Ref: 95.336
<b>HIP 60855</b> Ref: 95.221	<b>HIP 61192</b> Ref: 95.336
<b>HIP 60857</b> Ref: 95.693	<b>HIP 61193</b> Ref: 95.336
<b>HIP 60859</b> Ref: 95.336 93.211 91.102	<b>HIP 61197</b> Ref: 95.701
<b>HIP 60867</b> Comments: Possible period $p = 1.2316d$ .	<b>HIP 61199</b> Ref: 95.336
<b>HIP 60870</b> Ref: 95.445	Comments: Possible period $p = 2.7291d$ .
<b>HIP 60875</b> Ref: 95.693	<b>HIP 61202</b> Ref: 95.336
<b>HIP 60891</b> Ref: 95.684	<b>HIP 61212</b> Ref: 95.445 95.684
<b>HIP 60892</b> Ref: 95.445	<b>HIP 61217</b> Ref: 95.336
<b>HIP 60893</b> Ref: 95.701	<b>HIP 61225</b> Ref: 95.378 95.697 95.726 94.236 94.409 93.128 91.090 69.011 66.008 40.003 30.013 22.006
<b>HIP 60904</b> Ref: 95.327 95.347 95.684 94.038 94.139 94.202 91.053 84.043 81.048	<b>HIP 61229</b> Ref: 95.336
Comments: Period from Ref 84.043 confirmed.	<b>HIP 61233</b> Ref: 95.336
<b>HIP 60905</b> Ref: 95.336	<b>HIP 61237</b> Comments: Period may be half.
<b>HIP 60915</b> Ref: 95.701	<b>HIP 61239</b> Ref: 95.701
<b>HIP 60924</b> Ref: 92.011	<b>HIP 61243</b> Ref: 87.047 30.013
<b>HIP 60930</b> Ref: 95.445	<b>HIP 61270</b> Ref: 95.445 95.684 95.701
<b>HIP 60933</b> Ref: 95.701	<b>HIP 61280</b> Ref: 95.701
<b>HIP 60939</b> Ref: 95.701	<b>HIP 61281</b> Ref: 94.190 91.022 91.095
<b>HIP 60941</b> Ref: 95.492 95.701 94.289	<b>HIP 61286</b> Ref: 95.692 88.020 86.048 81.016 77.027 22.006 7.001
<b>HIP 60944</b> Ref: 95.336 95.693	Comments: Ephemeris based on AAVSO data.
<b>HIP 60945</b> Ref: 95.701	<b>HIP 61290</b> Comments: Possible period $p = 7.753d$ .
<b>HIP 60947</b> Ref: 95.336	<b>HIP 61291</b> Ref: 95.445
<b>HIP 60949</b> Ref: 95.336	<b>HIP 61295</b> Ref: 95.492 95.684 95.701 94.246
<b>HIP 60956</b> Ref: 95.193 95.445 94.138	<b>HIP 61297</b> Ref: 95.701
<b>HIP 60957</b> Ref: 95.492 95.684 95.701	<b>HIP 61306</b> Ref: 95.701
<b>HIP 60965</b> Ref: 95.515 95.642 94.229 94.311	<b>HIP 61317</b> Ref: 95.379 95.432 95.631 95.698 94.410 93.050
<b>HIP 60978</b> Ref: 95.684	<b>HIP 61318</b> Ref: 95.684
<b>HIP 60979</b> Comments: Possible period $p = 47.97d$ .	<b>HIP 61329</b> Ref: 95.445
<b>HIP 60980</b> Ref: 94.256	<b>HIP 61332</b> Ref: 95.336
<b>HIP 60989</b> Ref: 95.336	<b>HIP 61350</b> Ref: 95.701
<b>HIP 60998</b> Ref: 92.186 91.110 89.053 87.071	<b>HIP 61353</b> Ref: 95.701
<b>HIP 60999</b> Ref: 95.701	<b>HIP 61359</b> Ref: 95.062 95.385 95.698 94.134 94.175 94.216 94.378
<b>HIP 61009</b> Ref: 88.020 22.006 7.001	<b>HIP 61392</b> Ref: 95.336
Comments: Ephemeris based on AAVSO data.	<b>HIP 61394</b> Ref: 95.492 95.684 95.701 94.206
<b>HIP 61017</b> Ref: 95.336	<b>HIP 61397</b> Ref: 95.701
<b>HIP 61018</b> Ref: 95.701	<b>HIP 61405</b> Ref: 95.701
<b>HIP 61019</b> Ref: 95.336 95.693	<b>HIP 61414</b> Ref: 95.359 94.323 84.032
<b>HIP 61022</b> Ref: 95.230 95.417 95.661 94.051 94.196	<b>HIP 61415</b> Ref: 95.492 95.701
Comments: Possible confirmation of period $p = 150d$ .	<b>HIP 61418</b> Ref: 95.419 95.492 90.108
<b>HIP 61024</b> Comments: Possible period $p = 22.82d$ .	<b>HIP 61420</b> Ref: 95.062 95.492 95.701
<b>HIP 61025</b> Ref: 95.283	<b>HIP 61431</b> Ref: 95.388 95.693
<b>HIP 61029</b> Ref: 95.410 94.236	<b>HIP 61438</b> Comments: Possibly EA type.
<b>HIP 61031</b> Ref: 95.297 95.378 95.697 94.236 94.282 94.286 93.128 82.054 77.031	<b>HIP 61443</b> Ref: 95.445 94.289
<b>HIP 61033</b> Ref: 95.336	<b>HIP 61444</b> Ref: 95.336
<b>HIP 61035</b> Ref: 95.701	<b>HIP 61447</b> Ref: 95.336
<b>HIP 61053</b> Ref: 95.432 93.050	<b>HIP 61468</b> Ref: 95.701 83.020

- HIP 61479** Ref: 95.336  
**HIP 61481** Ref: 95.043  
**HIP 61482** Ref: 95.693  
**HIP 61496** Ref: 95.347 95.684 95.701 94.191 93.015 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 61498** Ref: 95.582 95.701  
**HIP 61499** Ref: 94.256  
**HIP 61502** Ref: 95.445 95.701  
**HIP 61506** Ref: 95.336  
**HIP 61507** Comments: Possible period  $p = 18.01d$ .  
**HIP 61532** Ref: 93.081 88.020 86.141 85.222 22.006 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 61537** Ref: 95.336  
**HIP 61538** Ref: 95.336  
**HIP 61545** Ref: 95.445 94.389  
**HIP 61550** Ref: 95.701  
**HIP 61558** Ref: 95.684  
**HIP 61560** Ref: 95.492 95.701  
**HIP 61561** Ref: 95.701  
**HIP 61569** Ref: 95.336  
**HIP 61571** Ref: 95.062  
**HIP 61573** Ref: 95.701  
**HIP 61579** Ref: 95.701  
**HIP 61584** Ref: 95.492 95.701  
**HIP 61597** Ref: 95.386  
**HIP 61602** Ref: 95.029 95.701  
**HIP 61620** Ref: 95.701 93.173 82.028 74.033  
**HIP 61621** Ref: 95.445 93.015  
**HIP 61628** Ref: 95.701  
**HIP 61637** Ref: 95.684 95.701  
**HIP 61638** Ref: 95.336  
**HIP 61658** Ref: 94.204 94.542  
 Comments: Possible period  $p = 1.5453d$ .  
**HIP 61667** Ref: 95.588 94.235 94.379 88.020 86.141 85.222 81.016 77.027 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 61688** Ref: 95.445 95.684 95.701  
**HIP 61692** Ref: 95.684 94.134  
**HIP 61696** Ref: 95.445 95.649 95.697 94.046 94.246 94.407  
**HIP 61701** Ref: 95.701  
**HIP 61703** Ref: 95.336 95.693  
 Comments: Possible period  $p = 4.483d$ .  
**HIP 61705** Ref: 95.701  
**HIP 61711** Ref: 95.445 95.701  
**HIP 61715** Ref: 95.336  
**HIP 61717** Ref: 95.701  
**HIP 61718** Ref: 95.701  
**HIP 61720** Ref: 85.090  
**HIP 61724** Ref: 93.092  
**HIP 61727** Ref: 95.701  
**HIP 61728** Ref: 95.701  
**HIP 61732** Ref: 95.701  
**HIP 61738** Ref: 95.336  
**HIP 61740** Ref: 95.390 95.419  
**HIP 61748** Ref: 95.222 95.327 95.684 94.139 84.043  
**HIP 61751** Ref: 95.336 94.189  
**HIP 61764** Ref: 95.701  
**HIP 61768** Ref: 95.701  
**HIP 61772** Ref: 95.336 95.388 95.693  
**HIP 61777** Ref: 95.701  
**HIP 61778** Ref: 95.701  
**HIP 61789** Ref: 95.701 94.549 93.088  
**HIP 61796** Ref: 95.336 85.074  
 Comments: According to Ref 85.074 possible period  $p = 0.6d$ .  
**HIP 61808** Ref: 95.336  
**HIP 61809** Ref: 95.697 93.111 93.128 82.041 30.013  
**HIP 61814** Ref: 95.701  
**HIP 61819** Ref: 95.336  
**HIP 61824** Ref: 95.163 95.205 95.445 95.697 93.130  
**HIP 61825** Ref: 84.014 74.031  
 Comments: Period has slightly decreased.  
**HIP 61828** Ref: 95.701  
**HIP 61829** Ref: 95.336  
**HIP 61832** Ref: 95.701  
**HIP 61833** Ref: 94.189  
**HIP 61836** Comments: Possible alternative period  $p = 4.413d$ .  
**HIP 61839** Ref: 95.230 94.051 30.013 22.006 7.001  
**HIP 61844** Ref: 95.701  
**HIP 61847** Ref: 95.336  
**HIP 61861** Ref: 95.336  
**HIP 61867** Ref: 95.701  
**HIP 61882** Comments: Period may be double.  
**HIP 61885** Ref: 95.336  
**HIP 61889** Ref: 95.701  
**HIP 61899** Ref: 95.445 93.130  
 Comments: Possible period  $p = 5.286d$ .  
**HIP 61900** Comments: A triple star. Other notes: D.  
**HIP 61902** Ref: 95.283  
**HIP 61908** Comments: Possible period  $p = 20.74d$ .  
**HIP 61914** Ref: 95.701  
**HIP 61930** Ref: 95.701  
**HIP 61931** Ref: 95.336  
**HIP 61933** Ref: 93.211  
**HIP 61936** Ref: 95.684  
**HIP 61937** Ref: 95.347 95.684 95.701 94.191 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 61941** Ref: 95.313 95.419 95.658 95.684 95.701 95.739 94.265  
**HIP 61946** Ref: 95.043  
**HIP 61950** Ref: 95.701  
**HIP 61951** Ref: 95.445 95.701 93.015  
**HIP 61958** Ref: 95.029 95.117 95.701  
**HIP 61959** Ref: 95.336  
**HIP 61960** Ref: 95.033 95.060 95.131 95.150 95.347 95.515 95.684 95.701 93.026 82.032  
**HIP 61966** Ref: 95.336 94.198  
**HIP 61967** Ref: 95.701  
**HIP 61968** Ref: 95.131 95.701  
**HIP 61974** Ref: 95.193 95.445  
**HIP 61975** Comments: Possible period  $p = 0.8668d$ .  
**HIP 61981** Ref: 95.445 92.110 90.004 89.154 85.054 82.015 71.018 64.008 64.009 61.002 58.001 58.003 40.003 30.013 28.003 22.006 7.001  
**HIP 61990** Ref: 95.701  
**HIP 61997** Ref: 95.336  
**HIP 62002** Ref: 95.336 94.207  
**HIP 62005** Ref: 95.701  
**HIP 62009** Ref: 95.701  
**HIP 62017** Ref: 95.701  
**HIP 62027** Ref: 95.047 95.336 94.198 94.211 94.400 94.403  
**HIP 62043** Ref: 95.336 94.207  
**HIP 62058** Ref: 91.102  
**HIP 62066** Ref: 95.701  
**HIP 62070** Comments: Possible period  $p = 4.972d$ .  
**HIP 62071** Ref: 94.488 90.077 90.119 84.059 83.102 30.012 22.006  
 Comments: Eruption during 600d, brightening the star by 2.5 mag, in the middle of the mission.  
**HIP 62073** Ref: 95.701  
**HIP 62074** Ref: 94.207  
**HIP 62081** Ref: 95.445 95.701 83.020  
**HIP 62102** Ref: 95.492 95.701  
**HIP 62107** Ref: 95.445  
**HIP 62108** Ref: 95.697  
**HIP 62112** Ref: 95.701  
**HIP 62115** Ref: 95.693 91.082 90.057 84.102 74.018  
**HIP 62116** Ref: 95.701  
**HIP 62126** Ref: 95.499 95.598 93.093 93.095 88.020 86.141 85.222 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 62130** Ref: 95.492 95.701

<b>HIP 62133</b> Ref: 95.701	<b>HIP 62496</b> Comments: Type and period completely different from GCVS4 and Hipparcos Input Catalogue (given as an eclipsing binary with $p = 5.21d$ ).
<b>HIP 62138</b> Ref: 95.336	<b>HIP 62500</b> Ref: 95.445
<b>HIP 62141</b> Ref: 95.701	<b>HIP 62512</b> Ref: 95.124 95.671 93.075
<b>HIP 62149</b> Ref: 95.336 95.693 94.207	<b>HIP 62516</b> Ref: 95.684
<b>HIP 62151</b> Ref: 95.701	<b>HIP 62518</b> Ref: 95.332
<b>HIP 62154</b> Ref: 95.336 94.207	<b>HIP 62522</b> Ref: 95.701
<b>HIP 62155</b> Ref: 95.701	<b>HIP 62536</b> Ref: 94.406
<b>HIP 62157</b> Ref: 95.175 94.441 94.526 Comments: Ref 94.441: epoch of minimum JD 2 448 294.886, period $p = 0.116 719 5d$ .	<b>HIP 62539</b> Ref: 95.336
<b>HIP 62162</b> Ref: 95.492 95.701	<b>HIP 62541</b> Ref: 95.445 95.684 95.701
<b>HIP 62169</b> Ref: 95.693	<b>HIP 62550</b> Ref: 95.701
<b>HIP 62170</b> Ref: 95.684	<b>HIP 62555</b> Ref: 95.336
<b>HIP 62172</b> Ref: 93.015	<b>HIP 62556</b> Ref: 94.410
<b>HIP 62188</b> Ref: 95.492	<b>HIP 62557</b> Ref: 95.701
<b>HIP 62204</b> Ref: 95.336 94.207	<b>HIP 62561</b> Ref: 95.684
<b>HIP 62207</b> Ref: 95.383 94.256 94.407 93.050	<b>HIP 62562</b> Ref: 95.701
<b>HIP 62212</b> Ref: 95.445	<b>HIP 62564</b> Ref: 95.336 94.207
<b>HIP 62223</b> Ref: 95.084 95.181 95.254 95.361 95.509 95.514 95.567 95.581 95.648 95.648 94.039 94.119 94.196 94.290 94.418 91.043 84.090 30.013 22.006	<b>HIP 62566</b> Ref: 95.701
<b>HIP 62227</b> Ref: 95.693 94.207	<b>HIP 62568</b> Ref: 95.701
<b>HIP 62230</b> Ref: 95.701	<b>HIP 62572</b> Ref: 95.143 95.684
<b>HIP 62233</b> Ref: 95.701	<b>HIP 62576</b> Ref: 95.684 95.701
<b>HIP 62234</b> Ref: 95.701	<b>HIP 62581</b> Comments: Possible period $p = 1.5910d$ .
<b>HIP 62235</b> Ref: 95.445 94.280	<b>HIP 62584</b> Ref: 95.701
<b>HIP 62243</b> Ref: 95.336	<b>HIP 62587</b> Ref: 95.693
<b>HIP 62247</b> Comments: Possible period $p = 22.13d$ .	<b>HIP 62608</b> Ref: 95.445
<b>HIP 62248</b> Ref: 95.701	<b>HIP 62611</b> Ref: 95.332 92.011
<b>HIP 62249</b> Ref: 95.701	<b>HIP 62615</b> Ref: 95.701
<b>HIP 62264</b> Ref: 95.701	<b>HIP 62616</b> Ref: 95.492 95.701
<b>HIP 62267</b> Ref: 95.347 95.483 95.684 95.701 94.191 90.024 83.020 Comments: Data inadequate for confirmation of period from Ref 94.191.	<b>HIP 62641</b> Ref: 95.684
<b>HIP 62270</b> Ref: 94.207	<b>HIP 62646</b> Ref: 95.336 95.693 94.207
<b>HIP 62281</b> Ref: 95.701	<b>HIP 62651</b> Ref: 95.697
<b>HIP 62286</b> Ref: 95.693 94.207	<b>HIP 62658</b> Ref: 94.207
<b>HIP 62288</b> Ref: 95.701	<b>HIP 62661</b> Ref: 95.445
<b>HIP 62291</b> Ref: 95.336 95.693	<b>HIP 62670</b> Ref: 95.701
<b>HIP 62318</b> Ref: 95.701	<b>HIP 62687</b> Ref: 94.188 94.259 94.266
<b>HIP 62324</b> Ref: 95.336 94.207	<b>HIP 62703</b> Ref: 83.020
<b>HIP 62325</b> Ref: 95.445 83.043	<b>HIP 62712</b> Ref: 88.020 70.009 22.006 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 62333</b> Comments: Possible period $p = 5.6880d$ .	<b>HIP 62722</b> Ref: 95.693
<b>HIP 62339</b> Ref: 95.388	<b>HIP 62724</b> Ref: 95.492 95.701
<b>HIP 62341</b> Ref: 95.701	<b>HIP 62732</b> Ref: 95.336 95.693 94.232
<b>HIP 62344</b> Ref: 95.492 95.701	<b>HIP 62740</b> Ref: 94.174
<b>HIP 62349</b> Ref: 95.492 95.701	<b>HIP 62747</b> Ref: 95.423 95.445 95.697 94.095 94.188 94.280 94.407
<b>HIP 62376</b> Ref: 95.327 95.339 95.684 94.139 94.202 91.053 84.043 81.051 Comments: Period from Ref 84.043 confirmed.	<b>HIP 62761</b> Ref: 91.102
<b>HIP 62378</b> Ref: 95.701	<b>HIP 62763</b> Ref: 95.062 95.419 95.661 95.698 95.701 94.188 94.256 94.265 94.289 94.495 93.015 90.108 85.193 84.140
<b>HIP 62391</b> Ref: 95.336 94.207	<b>HIP 62770</b> Ref: 95.701
<b>HIP 62394</b> Ref: 95.684	<b>HIP 62772</b> Ref: 94.220
<b>HIP 62401</b> Ref: 95.361 95.509 95.581 94.039 94.235 94.418 88.020 30.013 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 62774</b> Comments: Possible alternative period $p = 2.3711d$ .
<b>HIP 62402</b> Ref: 95.684	<b>HIP 62782</b> Ref: 95.492 95.701
<b>HIP 62421</b> Ref: 95.445 91.102	<b>HIP 62783</b> Ref: 95.492 95.701
<b>HIP 62428</b> Ref: 94.207	<b>HIP 62786</b> Ref: 95.701
<b>HIP 62431</b> Ref: 94.207	<b>HIP 62788</b> Ref: 95.033 95.060 95.684 94.459 93.026
<b>HIP 62432</b> Comments: Possible period $p = 40d$ .	<b>HIP 62792</b> Ref: 95.492 95.701
<b>HIP 62434</b> Ref: 95.313 95.472 94.019 83.007 81.022 75.016	<b>HIP 62793</b> Ref: 95.336
<b>HIP 62438</b> Ref: 95.492 95.701	<b>HIP 62809</b> Ref: 95.445
<b>HIP 62439</b> Ref: 95.701	<b>HIP 62823</b> Ref: 95.336 94.207
<b>HIP 62443</b> Ref: 94.542	<b>HIP 62825</b> Ref: 95.283 95.684
<b>HIP 62448</b> Ref: 95.701	<b>HIP 62836</b> Ref: 95.701
<b>HIP 62451</b> Ref: 95.336	<b>HIP 62843</b> Ref: 95.701
<b>HIP 62478</b> Ref: 95.684 95.701	<b>HIP 62853</b> Comments: Possible period $p = 45.6d$ .
<b>HIP 62482</b> Ref: 95.336	<b>HIP 62860</b> Ref: 95.492 95.701
<b>HIP 62483</b> Ref: 95.701	<b>HIP 62865</b> Ref: 95.729 91.144
<b>HIP 62489</b> Ref: 95.701	<b>HIP 62870</b> Ref: 95.336
<b>HIP 62493</b> Ref: 95.701	<b>HIP 62875</b> Ref: 95.445
<b>HIP 62494</b> Ref: 95.701	<b>HIP 62881</b> Ref: 95.701
	<b>HIP 62882</b> Ref: 95.122 95.445 95.697 94.043 94.053 94.138
	<b>HIP 62886</b> Ref: 95.419 95.701 93.092 90.108
	<b>HIP 62894</b> Ref: 95.336 95.431 95.693
	<b>HIP 62896</b> Ref: 95.701

<b>HIP 62904</b>	Ref: 94.406	<b>HIP 63221</b>	Ref: 94.206
<b>HIP 62905</b>	Ref: 95.701	<b>HIP 63231</b>	Ref: 95.701
<b>HIP 62907</b>	Ref: 95.701	<b>HIP 63235</b>	Ref: 93.030
<b>HIP 62913</b>	Ref: 95.336 95.693	<b>HIP 63236</b>	Ref: 95.336
<b>HIP 62915</b>	Ref: 93.092	<b>HIP 63247</b>	Ref: 95.701 94.202
<b>HIP 62916</b>	Ref: 95.336	<b>HIP 63250</b>	Ref: 94.019 94.205 89.027
<b>HIP 62923</b>	Ref: 95.122 95.445 95.697 94.043	<b>HIP 63253</b>	Ref: 95.341 94.007 94.220 94.265
<b>HIP 62928</b>	Ref: 95.701	<b>HIP 63256</b>	Ref: 95.388 95.693 94.207
<b>HIP 62931</b>	Ref: 95.336 95.693	<b>HIP 63258</b>	Ref: 95.693 94.207
<b>HIP 62932</b>	Ref: 95.697	<b>HIP 63260</b>	Ref: 95.336
<b>HIP 62933</b>	Ref: 95.684 83.020	<b>HIP 63261</b>	Ref: 95.701
<b>HIP 62941</b>	Ref: 95.701	<b>HIP 63273</b>	Ref: 95.336
<b>HIP 62944</b>	Ref: 95.206 95.390 95.526	<b>HIP 63275</b>	Ref: 95.336 94.207
<b>HIP 62953</b>	Ref: 95.336 95.693	<b>HIP 63276</b>	Ref: 95.701
<b>HIP 62954</b>	Ref: 95.701	<b>HIP 63277</b>	Ref: 95.336 95.693 94.207
<b>HIP 62956</b>	Ref: 95.014 95.684 94.065 94.139 94.202 89.047 85.046 84.043	<b>HIP 63280</b>	Ref: 95.701
<b>HIP 62959</b>	Ref: 95.336	<b>HIP 63286</b>	Ref: 95.701
<b>HIP 62964</b>	Ref: 95.558 93.041	<b>HIP 63293</b>	Ref: 95.283 95.701 94.246
<b>HIP 62972</b>	Ref: 95.684	<b>HIP 63299</b>	Ref: 95.336 94.207
<b>HIP 62977</b>	Ref: 95.701	<b>HIP 63315</b>	Ref: 94.207
<b>HIP 62981</b>	Ref: 95.336	<b>HIP 63320</b>	Ref: 95.701 94.246
	Comments: Brighter than expected.	<b>HIP 63350</b>	Ref: 95.701
<b>HIP 62982</b>	Ref: 95.336 95.693 94.207	<b>HIP 63355</b>	Ref: 95.419 94.542
<b>HIP 62983</b>	Ref: 95.684	<b>HIP 63356</b>	Ref: 94.406
<b>HIP 62985</b>	Ref: 95.419 94.204	<b>HIP 63360</b>	Comments: Possible period $p = 37.12d$ .
<b>HIP 62986</b>	Ref: 95.445 94.176 93.190 92.020 92.110 90.004 89.154 85.054 82.056 76.025 71.018 64.009 61.002 58.001 22.006 7.001	<b>HIP 63361</b>	Ref: 95.445
<b>HIP 63006</b>	Ref: 95.492 95.701	<b>HIP 63365</b>	Ref: 95.336
<b>HIP 63007</b>	Ref: 95.336 94.198 85.074 81.098	<b>HIP 63366</b>	Ref: 95.445 94.188
	Comments: Contradicting periods in literature (Ref 85.074, Ref 81.098), that do not fit the Hipparcos data.	<b>HIP 63368</b>	Ref: 95.389 95.392 94.175 94.216 93.118 Comments: No confirmation of period from Ref 95.389.
<b>HIP 63008</b>	Ref: 95.701	<b>HIP 63385</b>	Ref: 95.445
<b>HIP 63024</b>	Ref: 95.419 95.783 94.051	<b>HIP 63405</b>	Ref: 95.701
<b>HIP 63025</b>	Ref: 95.701 94.246	<b>HIP 63407</b>	Ref: 95.701
<b>HIP 63033</b>	Ref: 95.386 95.399 95.445 95.701 94.056 93.050	<b>HIP 63411</b>	Ref: 95.336
<b>HIP 63036</b>	Ref: 95.336 94.207	<b>HIP 63414</b>	Ref: 95.684
<b>HIP 63041</b>	Ref: 95.336	<b>HIP 63416</b>	Ref: 95.283
<b>HIP 63045</b>	Ref: 95.701	<b>HIP 63423</b>	Ref: 95.701
<b>HIP 63049</b>	Ref: 95.336 95.693 94.207	<b>HIP 63449</b>	Ref: 95.336 95.693 94.207
<b>HIP 63054</b>	Ref: 95.378 95.697 94.236 94.282 94.286 94.409 93.111 93.128	<b>HIP 63459</b>	Ref: 95.701
<b>HIP 63073</b>	Ref: 95.336	<b>HIP 63462</b>	Ref: 95.062 95.701 93.015 85.193 84.140
<b>HIP 63075</b>	Ref: 95.373	<b>HIP 63465</b>	Ref: 95.336
<b>HIP 63076</b>	Ref: 95.684	<b>HIP 63468</b>	Ref: 95.701
<b>HIP 63087</b>	Ref: 95.701 94.175 94.216 94.265 93.118	<b>HIP 63475</b>	Ref: 95.336
<b>HIP 63090</b>	Ref: 95.419 95.499 94.204	<b>HIP 63481</b>	Ref: 95.029
	Comments: Possible period $p = 3.053d$ .	<b>HIP 63484</b>	Ref: 95.697
<b>HIP 63109</b>	Ref: 95.684	<b>HIP 63489</b>	Ref: 95.336
<b>HIP 63117</b>	Ref: 95.241 95.388 95.494 95.642 94.367	<b>HIP 63490</b>	Ref: 95.445
<b>HIP 63121</b>	Ref: 95.501 95.658 95.684	<b>HIP 63492</b>	Ref: 95.693 94.189
<b>HIP 63125</b>	Ref: 95.327 95.642 95.684 94.065 94.188 94.202 94.229 91.053 84.043	<b>HIP 63497</b>	Ref: 95.509
	Comments: Period from Ref 84.043 confirmed.	<b>HIP 63501</b>	Ref: 91.002
<b>HIP 63138</b>	Ref: 95.701 94.246		Comments: Ephemeris based on AAVSO data.
<b>HIP 63140</b>	Ref: 95.336 94.207	<b>HIP 63503</b>	Ref: 95.338 95.419 94.257 93.075
<b>HIP 63143</b>	Ref: 95.684	<b>HIP 63505</b>	Ref: 95.701
<b>HIP 63152</b>	Ref: 95.361 95.509 95.514 95.567 95.581 95.648 95.648 94.039 94.418 93.004 30.013 22.006 7.001	<b>HIP 63534</b>	Ref: 95.697
<b>HIP 63159</b>	Ref: 94.120 94.235 83.113	<b>HIP 63539</b>	Ref: 95.693
	Comments: Possible period $p = 12.07d$ .	<b>HIP 63541</b>	Ref: 95.701
<b>HIP 63165</b>	Ref: 95.445	<b>HIP 63547</b>	Ref: 94.211
<b>HIP 63166</b>	Ref: 95.336 94.207	<b>HIP 63548</b>	Ref: 94.188
<b>HIP 63167</b>	Ref: 95.336 94.207	<b>HIP 63554</b>	Ref: 95.336 94.207
<b>HIP 63170</b>	Ref: 95.336 95.693	<b>HIP 63559</b>	Ref: 95.445 95.697
<b>HIP 63175</b>	Ref: 88.020 30.013 22.006 7.001	<b>HIP 63560</b>	Comments: Possible period $p = 28.12d$ .
<b>HIP 63197</b>	Ref: 95.701	<b>HIP 63561</b>	Ref: 95.430 94.047 94.269 94.419 93.118 92.081 92.111 89.060 Comments: GCVS4 type and period not confirmed. Period close to GCVS4 found, but not with EA characteristics. Possibly rotating?
<b>HIP 63204</b>	Ref: 91.053 85.042 84.043 83.058	<b>HIP 63565</b>	Ref: 95.336
<b>HIP 63205</b>	Ref: 95.336 94.207	<b>HIP 63567</b>	Ref: 95.336
<b>HIP 63206</b>	Ref: 95.336	<b>HIP 63569</b>	Ref: 95.701
<b>HIP 63218</b>	Ref: 95.701	<b>HIP 63576</b>	Ref: 95.336 95.693 94.207
		<b>HIP 63584</b>	Ref: 95.658
		<b>HIP 63591</b>	Ref: 95.701 94.246
		<b>HIP 63592</b>	Ref: 95.701 92.076 30.013
		<b>HIP 63599</b>	Ref: 95.336



<b>HIP 63608</b> Ref: 95.062 95.383 95.419 95.433 95.625 95.644 95.661 95.698 94.042 94.148 94.289 94.378 94.407 93.015	<b>HIP 64094</b> Ref: 95.590 95.693 94.022 94.367 93.211 91.102
<b>HIP 63613</b> Ref: 93.092	<b>HIP 64102</b> Ref: 95.701
<b>HIP 63619</b> Ref: 95.701	<b>HIP 64103</b> Ref: 95.445 94.188
<b>HIP 63622</b> Ref: 95.283	<b>HIP 64108</b> Ref: 95.336
<b>HIP 63639</b> Ref: 95.336	<b>HIP 64115</b> Ref: 95.193
<b>HIP 63642</b> Ref: 95.203 95.230 95.254 95.491 95.581 95.680 94.051 94.196 94.407 94.413 87.175 22.006 7.001	<b>HIP 64120</b> Ref: 95.711 89.109
<b>HIP 63643</b> Ref: 95.701	<b>HIP 64121</b> Ref: 95.336 94.207
<b>HIP 63647</b> Ref: 95.684	<b>HIP 64124</b> Ref: 95.701
<b>HIP 63649</b> Ref: 95.336	<b>HIP 64125</b> Ref: 95.445
<b>HIP 63651</b> Ref: 95.336 94.207	<b>HIP 64135</b> Ref: 95.701
<b>HIP 63653</b> Comments: Possible period $p = 26.82d$ .	<b>HIP 64136</b> Ref: 95.693 94.207
<b>HIP 63658</b> Ref: 95.336 95.693 94.207	<b>HIP 64138</b> Ref: 95.336
<b>HIP 63677</b> Ref: 95.283	<b>HIP 64150</b> Ref: 95.386
<b>HIP 63678</b> Ref: 95.336 94.207	<b>HIP 64166</b> Ref: 95.701 85.090
<b>HIP 63686</b> Ref: 95.336 94.207	<b>HIP 64184</b> Ref: 95.336 94.207
<b>HIP 63688</b> Ref: 95.336 95.693 94.198	<b>HIP 64196</b> Ref: 95.701 94.246
<b>HIP 63693</b> Ref: 90.004 81.076 76.025 71.018 64.009 61.002 58.001	<b>HIP 64201</b> Ref: 94.207
<b>HIP 63696</b> Comments: Possibly EA type.	<b>HIP 64204</b> Ref: 95.701
<b>HIP 63701</b> Ref: 84.123	<b>HIP 64219</b> Ref: 95.445
<b>HIP 63704</b> Ref: 95.701	<b>HIP 64231</b> Ref: 95.684
<b>HIP 63720</b> Ref: 95.701	<b>HIP 64238</b> Ref: 95.684
<b>HIP 63730</b> Ref: 95.701	<b>HIP 64241</b> Ref: 95.124 95.658 95.671 94.007 94.206 94.257
<b>HIP 63738</b> Ref: 95.701	<b>HIP 64246</b> Ref: 95.684 95.732
<b>HIP 63743</b> Ref: 95.701	<b>HIP 64258</b> Ref: 95.336
<b>HIP 63750</b> Ref: 95.684	<b>HIP 64271</b> Ref: 95.701
<b>HIP 63752</b> Comments: Possible period $p = 5.00d$ .	<b>HIP 64272</b> Ref: 95.336 95.693 94.207
<b>HIP 63758</b> Ref: 94.271 94.280	<b>HIP 64276</b> Ref: 95.701
<b>HIP 63768</b> Ref: 95.336	<b>HIP 64285</b> Ref: 95.336 94.207
<b>HIP 63802</b> Ref: 95.336 95.693 94.207	<b>HIP 64286</b> Ref: 95.336 94.207
<b>HIP 63803</b> Ref: 95.445	<b>HIP 64293</b> Ref: 95.071 95.428 95.430 95.562 95.583 95.694 95.699 95.702 94.040 94.047 94.134 94.145 94.419 93.064 93.118 93.136 92.064 92.065 92.111 90.013 90.039 90.046 88.025 87.050 83.056 80.070 22.006
<b>HIP 63814</b> Ref: 95.701	<b>HIP 64312</b> Comments: Possibly type.
<b>HIP 63819</b> Ref: 94.207	<b>HIP 64313</b> Ref: 95.701 94.246
<b>HIP 63821</b> Ref: 95.693	<b>HIP 64320</b> Ref: 93.127 85.042 84.043 83.058 Comments: Period from Ref 84.043 confirmed.
<b>HIP 63822</b> Ref: 95.684	<b>HIP 64322</b> Ref: 95.336 94.207
<b>HIP 63826</b> Ref: 94.207	<b>HIP 64324</b> Ref: 95.336 95.693 94.207
<b>HIP 63827</b> Ref: 95.701	<b>HIP 64332</b> Ref: 95.445 95.701 93.057
<b>HIP 63828</b> Ref: 95.336	<b>HIP 64345</b> Ref: 95.193 94.188
<b>HIP 63839</b> Ref: 95.336	<b>HIP 64359</b> Ref: 95.693
<b>HIP 63848</b> Ref: 95.283	<b>HIP 64375</b> Ref: 95.684 95.701
<b>HIP 63859</b> Ref: 94.206	<b>HIP 64385</b> Ref: 95.336
<b>HIP 63886</b> Ref: 94.207	<b>HIP 64386</b> Ref: 94.188
<b>HIP 63889</b> Ref: 95.701	<b>HIP 64390</b> Ref: 95.336
<b>HIP 63911</b> Ref: 93.211 91.102 90.119 30.012 22.006	<b>HIP 64394</b> Ref: 95.124 95.193 95.277 95.285 95.383 95.399 95.631 95.644 95.658 95.671 95.698 95.701 94.007 94.266 94.407 94.410 94.537 93.050 93.064
<b>HIP 63918</b> Ref: 95.445	<b>HIP 64395</b> Ref: 95.336 95.693
<b>HIP 63930</b> Ref: 95.701	<b>HIP 64398</b> Ref: 95.336 95.693 94.207
<b>HIP 63933</b> Ref: 95.684 95.701 94.246	<b>HIP 64405</b> Ref: 93.030
<b>HIP 63940</b> Ref: 94.207	<b>HIP 64407</b> Ref: 93.050
<b>HIP 63945</b> Ref: 95.642	<b>HIP 64408</b> Ref: 95.698 93.073
<b>HIP 63948</b> Ref: 94.221	<b>HIP 64420</b> Ref: 95.071
<b>HIP 63950</b> Ref: 95.419 95.475 95.783 94.051 93.275 92.162 85.193 84.138 84.140 84.170	<b>HIP 64425</b> Ref: 95.004 95.336
<b>HIP 63951</b> Comments: Possible period $p = 1.0731d$ .	<b>HIP 64426</b> Ref: 95.087 95.122 95.379 95.383 95.781 94.043 94.188 94.407 93.050 89.155
<b>HIP 63952</b> Ref: 95.062 93.015	<b>HIP 64455</b> Ref: 95.336 94.207
<b>HIP 63958</b> Ref: 95.389 95.392 94.145 94.175 94.216 93.118 Comments: No confirmation of period from Ref 95.389.	<b>HIP 64457</b> Ref: 95.445
<b>HIP 63990</b> Ref: 95.336 94.207	<b>HIP 64459</b> Ref: 95.445
<b>HIP 63991</b> Ref: 95.336 95.693	<b>HIP 64463</b> Ref: 95.701 94.246
<b>HIP 63994</b> Ref: 95.336 94.207	<b>HIP 64466</b> Ref: 95.336 93.211 91.102
<b>HIP 64003</b> Ref: 95.445	<b>HIP 64469</b> Ref: 95.071
<b>HIP 64004</b> Ref: 95.642	<b>HIP 64470</b> Ref: 94.406
<b>HIP 64018</b> Ref: 95.693	<b>HIP 64471</b> Ref: 95.336 94.207
<b>HIP 64022</b> Ref: 95.373 95.419	<b>HIP 64477</b> Ref: 95.283
<b>HIP 64033</b> Ref: 95.336	<b>HIP 64478</b> Ref: 95.336 95.445 93.118
<b>HIP 64047</b> Ref: 95.336	<b>HIP 64485</b> Ref: 95.693
<b>HIP 64049</b> Ref: 95.336	<b>HIP 64491</b> Ref: 95.336
<b>HIP 64054</b> Ref: 95.336	<b>HIP 64498</b> Ref: 95.347 88.100
<b>HIP 64063</b> Ref: 95.336	<b>HIP 64506</b> Ref: 95.336
<b>HIP 64078</b> Ref: 94.134	

- HIP 64520** Ref: 95.684  
**HIP 64525** Ref: 95.283 94.246  
**HIP 64527** Ref: 95.684  
**HIP 64529** Ref: 95.336  
**HIP 64531** Ref: 95.336  
**HIP 64532** Ref: 95.671 94.407  
**HIP 64540** Ref: 95.419  
**HIP 64546** Ref: 95.336  
**HIP 64548** Ref: 95.558 95.701  
**HIP 64551** Ref: 95.701  
**HIP 64554** Ref: 95.336  
**HIP 64556** Ref: 95.445  
**HIP 64557** Ref: 95.445 93.211 91.102  
**HIP 64562** Ref: 95.701  
**HIP 64564** Ref: 95.336 95.693 94.207  
**HIP 64565** Ref: 94.207  
**HIP 64567** Ref: 86.130  
**HIP 64569** Ref: 95.230 95.254 95.581 95.661 94.051  
 94.067 94.196 94.407 92.162 90.080 71.007 30.013  
 22.006 7.001  
**HIP 64572** Ref: 95.693 94.432  
 Comments: Possible period  $p = 50.7d$ .  
**HIP 64577** Ref: 95.445 94.095 94.407  
**HIP 64578** Ref: 95.336 95.693  
**HIP 64581** Ref: 95.283 95.701 94.246  
**HIP 64582** Ref: 95.336  
**HIP 64583** Ref: 95.336 94.056 93.015 93.050  
**HIP 64587** Ref: 95.445  
**HIP 64603** Ref: 95.701  
**HIP 64607** Comments: Possible period  $p = 7.984d$  or  
 related.  
**HIP 64613** Comments: Possible period  $p = 4.717d$ .  
**HIP 64616** Ref: 94.207  
**HIP 64621** Ref: 95.336  
**HIP 64624** Ref: 95.336 95.693  
**HIP 64645** Comments: Possible period  $p = 4.277d$ .  
**HIP 64653** Ref: 95.336 95.693  
**HIP 64655** Ref: 95.386  
**HIP 64661** Ref: 95.336 94.001 93.211 91.102  
**HIP 64664** Ref: 95.336 94.207  
**HIP 64665** Ref: 95.336  
**HIP 64670** Ref: 95.701  
**HIP 64673** Ref: 95.445  
**HIP 64692** Ref: 95.684  
**HIP 64702** Ref: 95.336 94.207  
**HIP 64716** Ref: 95.336  
**HIP 64725** Ref: 95.445 94.134  
**HIP 64737** Ref: 95.336 95.388 95.693 94.207  
 Comments: Period may be double.  
**HIP 64765** Ref: 95.336 94.207  
**HIP 64766** Ref: 95.701  
**HIP 64768** Ref: 94.196 92.011 92.162  
**HIP 64769** Ref: 95.347 95.445 95.483 95.684 94.191  
 93.015 90.024 83.020 83.042  
**HIP 64774** Ref: 94.209  
**HIP 64778** Ref: 95.303 22.006  
 Comments: Possible period  $p = 175d$ .  
**HIP 64779** Ref: 95.283 95.445 95.684  
**HIP 64786** Ref: 95.697 94.280  
**HIP 64789** Ref: 95.283 94.221  
**HIP 64790** Ref: 95.336 95.445  
**HIP 64792** Ref: 95.124 95.277 95.432 95.658 95.671  
 94.007 94.056 94.265 93.050 93.064  
**HIP 64797** Ref: 95.124 95.277 95.671 94.007 94.257  
 93.064  
**HIP 64822** Ref: 83.020  
**HIP 64827** Ref: 95.701 94.246  
**HIP 64829** Ref: 95.701  
**HIP 64834** Comments: Possible alternative period  
 $p = 0.92727d$ .  
**HIP 64838** Ref: 95.684  
**HIP 64844** Ref: 95.347 95.483 95.684 94.191 93.170  
 90.024 86.150 84.161 83.048 82.063 81.060  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 64850** Comments: Possible period  $p = 3.9535d$ .
- HIP 64852** Ref: 95.419  
 Comments: Possible period  $p = 11.73d$ .  
**HIP 64858** Ref: 94.256  
**HIP 64863** Ref: 95.336 94.207  
**HIP 64871** Ref: 95.336  
**HIP 64875** Ref: 95.378 95.410 95.697 94.236 93.111  
 93.128 73.024  
**HIP 64876** Ref: 95.336  
**HIP 64877** Ref: 95.336 94.207  
**HIP 64882** Ref: 95.336  
**HIP 64896** Ref: 95.336 95.693  
**HIP 64906** Ref: 95.684 94.147  
**HIP 64914** Ref: 95.336 95.693  
**HIP 64921** Ref: 95.336  
**HIP 64924** Ref: 95.011 95.383 95.433 95.644 95.671  
 95.698 94.056 94.407 94.410 93.050  
**HIP 64929** Ref: 95.693 94.022 94.408  
**HIP 64936** Ref: 95.094 95.283 95.327 95.701 94.139  
 94.202 84.043  
**HIP 64942** Ref: 95.701  
**HIP 64951** Ref: 95.336  
**HIP 64954** Ref: 95.684  
**HIP 64956** Ref: 95.428 95.430 93.015 93.118 90.059  
 89.060 85.161  
**HIP 64959** Comments: Possible period  $p = 30.25d$ .  
**HIP 64962** Ref: 95.390 95.698 95.701 93.015  
**HIP 64969** Ref: 95.411 95.450 95.452 95.693 94.207  
 94.301 86.002 71.018 61.002 58.001  
**HIP 64979** Ref: 95.684  
**HIP 64981** Ref: 95.701  
**HIP 64995** Ref: 95.336 94.207  
**HIP 65006** Ref: 95.203 95.230 94.196 86.050 83.098  
 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 65010** Ref: 95.336  
**HIP 65020** Ref: 95.701  
**HIP 65021** Ref: 95.336  
**HIP 65022** Ref: 95.336  
**HIP 65026** Ref: 94.410  
**HIP 65033** Ref: 95.336 94.207  
**HIP 65034** Ref: 95.336  
**HIP 65040** Ref: 94.188  
**HIP 65045** Ref: 95.336 94.207  
**HIP 65047** Ref: 95.423 95.697  
**HIP 65049** Ref: 94.188  
**HIP 65063** Ref: 95.297 95.378 95.697 94.236 94.409  
 93.111 93.128 91.090 82.054 77.031  
**HIP 65069** Ref: 94.206  
 Comments: Period may be half.  
**HIP 65084** Ref: 95.336  
**HIP 65101** Ref: 95.701  
**HIP 65108** Ref: 95.336 95.445  
**HIP 65109** Ref: 95.012 94.311  
**HIP 65113** Ref: 95.336  
**HIP 65119** Ref: 95.684  
**HIP 65122** Comments: Possible period  $p = 4.465d$ .  
**HIP 65129** Ref: 95.693 94.357  
**HIP 65150** Ref: 89.113  
**HIP 65152** Ref: 95.701  
**HIP 65166** Ref: 94.196 30.013 22.006 7.001  
 Comments: Very long-term variations ( $> 800d$ ).  
 Other notes: D.  
**HIP 65175** Ref: 95.701  
**HIP 65181** Ref: 95.336  
**HIP 65183** Ref: 95.684  
**HIP 65186** Ref: 95.336 94.207  
**HIP 65187** Ref: 95.694 94.134 94.145 93.015 93.092  
 93.118 87.150 85.193 84.140 84.148  
 Comments: Possible periods  $p = 20.75d$  or  
 $p = 6.369d$ .  
**HIP 65198** Ref: 95.684  
**HIP 65201** Ref: 95.087 95.122 95.235 95.433 95.445  
 95.697 94.043 94.389  
**HIP 65203** Ref: 94.139 94.174 94.202 94.406  
**HIP 65224** Ref: 95.283

<b>HIP 65230</b> Ref: 95.684	<b>HIP 65693</b> Ref: 95.693
<b>HIP 65234</b> Ref: 95.336	<b>HIP 65698</b> Ref: 95.684
<b>HIP 65236</b> Ref: 95.336	<b>HIP 65700</b> Ref: 95.701
<b>HIP 65241</b> Ref: 95.684 83.020	<b>HIP 65708</b> Ref: 95.445 94.188
<b>HIP 65242</b> Ref: 94.196 22.006	<b>HIP 65715</b> Ref: 95.347 94.191 90.024 86.001 83.020
<b>HIP 65257</b> Ref: 95.701	Comments: Period from Ref 94.191 confirmed.
<b>HIP 65271</b> Ref: 95.336	<b>HIP 65719</b> Ref: 95.336
<b>HIP 65274</b> Ref: 93.118	<b>HIP 65721</b> Ref: 95.379 95.445 95.644 95.698 94.407
<b>HIP 65276</b> Ref: 95.070	<b>HIP 65726</b> Ref: 95.701
<b>HIP 65289</b> Ref: 95.336 95.704 94.423 93.211 91.102	<b>HIP 65728</b> Ref: 95.684
<b>HIP 65294</b> Ref: 95.336 95.693 94.207	<b>HIP 65745</b> Ref: 95.336
<b>HIP 65307</b> Ref: 95.336	<b>HIP 65752</b> Ref: 95.336
<b>HIP 65309</b> Ref: 96.013	<b>HIP 65755</b> Ref: 95.336 93.127 91.053 84.043 77.013
Comments: Ref 96.013 suggests period in range	Comments: Period from Ref 84.043 confirmed.
50–100d, possibly $p = 87$ d. This is not confirmed by	<b>HIP 65760</b> Ref: 95.693
data.	<b>HIP 65768</b> Ref: 95.070
<b>HIP 65317</b> Ref: 95.336	<b>HIP 65779</b> Ref: 95.336
<b>HIP 65323</b> Ref: 95.445	<b>HIP 65782</b> Ref: 95.693
<b>HIP 65344</b> Ref: 95.697 94.236	<b>HIP 65783</b> Ref: 95.336
<b>HIP 65378</b> Ref: 95.356 95.684	<b>HIP 65796</b> Ref: 95.445
<b>HIP 65393</b> Ref: 95.336	<b>HIP 65803</b> Ref: 95.070
<b>HIP 65398</b> Ref: 95.336	<b>HIP 65813</b> Ref: 95.090 95.704 94.256 94.423 93.211
<b>HIP 65411</b> Ref: 94.111	91.102
Comments: Possible period $p = 8.163$ d.	<b>HIP 65818</b> Ref: 95.693
<b>HIP 65417</b> Ref: 93.092	<b>HIP 65819</b> Ref: 95.423 95.697 94.280
<b>HIP 65420</b> Ref: 95.427 95.658	<b>HIP 65835</b> Ref: 95.201 95.387 95.475 95.581 95.588
<b>HIP 65439</b> Ref: 95.336	95.692 93.081 89.031 88.020 77.027 30.013 22.006
<b>HIP 65444</b> Ref: 95.336	7.001
<b>HIP 65445</b> Ref: 95.697 93.111 93.263 82.041 77.031	Comments: Ephemeris based on AAVSO data.
73.024	<b>HIP 65839</b> Ref: 90.093 84.137 84.158
<b>HIP 65466</b> Ref: 95.684	<b>HIP 65847</b> Ref: 95.701
<b>HIP 65470</b> Ref: 95.336	<b>HIP 65848</b> Ref: 95.693
<b>HIP 65474</b> Ref: 95.047 95.157 95.267 95.313 95.494	<b>HIP 65852</b> Ref: 95.445
94.055 94.367 94.390 93.033 91.096 86.004 85.032	<b>HIP 65859</b> Ref: 95.445
85.074 81.022 80.029 75.016 69.015	<b>HIP 65860</b> Ref: 95.070
Comments: Superposed on ELL variations is BCEP	<b>HIP 65865</b> Ref: 95.336
variability (Ref 85.074).	<b>HIP 65890</b> Ref: 95.388 95.662 94.337
<b>HIP 65475</b> Ref: 94.189	<b>HIP 65892</b> Ref: 95.445 95.684
<b>HIP 65476</b> Ref: 95.701	<b>HIP 65896</b> Ref: 95.701 22.006
<b>HIP 65477</b> Ref: 95.540 95.543 95.563 95.684	<b>HIP 65915</b> Ref: 95.694 94.149 94.214 94.223 94.321
<b>HIP 65479</b> Ref: 95.336	93.020 93.205 93.216 92.177 92.183 91.068 90.108
<b>HIP 65522</b> Ref: 95.320 95.321 95.336 95.704 94.182	90.144 87.013 87.070 86.051 86.058 86.137 85.012
94.423 93.211 91.053 91.102 77.013	85.074 84.074 84.189 83.100 83.112 83.121 82.057
<b>HIP 65529</b> Ref: 95.701	81.002 81.006 81.070 81.077
<b>HIP 65531</b> Ref: 95.248 95.697 92.054 89.052 71.018	<b>HIP 65925</b> Ref: 95.693 94.211
67.012 67.013 67.014 66.011 66.015 64.009 58.001	<b>HIP 65942</b> Ref: 95.701
58.003 30.013 22.006 7.001	<b>HIP 65958</b> Ref: 95.445 94.280
<b>HIP 65535</b> Ref: 95.445 93.211 91.102	<b>HIP 65969</b> Ref: 95.684 95.701
<b>HIP 65539</b> Ref: 95.701	<b>HIP 65970</b> Ref: 92.110 90.004 90.060 85.054
<b>HIP 65543</b> Ref: 95.336	Comments: Literature period is based on two zero
<b>HIP 65545</b> Ref: 95.684	points (JD 2440348.77 and 2430049.637) but with
<b>HIP 65547</b> Ref: 95.697 94.409 93.111 93.128 82.041	an incorrect number of cycles assumed. This has now
73.024 22.006	been corrected using the Hipparcos data, and the new
Comments: Epoch of maximum hard to determine	period agrees with all three zero points.
because light curve is flat around the maximum.	<b>HIP 65972</b> Ref: 95.701
<b>HIP 65565</b> Ref: 94.280	<b>HIP 65977</b> Ref: 84.034 71.021
<b>HIP 65581</b> Ref: 94.204	<b>HIP 65982</b> Ref: 95.386 95.445
<b>HIP 65593</b> Ref: 93.211 91.102	<b>HIP 65998</b> Ref: 95.701
<b>HIP 65595</b> Ref: 94.289	<b>HIP 66004</b> Ref: 95.070
<b>HIP 65603</b> Ref: 95.684	<b>HIP 66006</b> Ref: 95.417 95.419
<b>HIP 65605</b> Ref: 95.283	<b>HIP 66008</b> Ref: 94.206
<b>HIP 65610</b> Ref: 95.701	<b>HIP 66012</b> Ref: 95.336
<b>HIP 65613</b> Ref: 95.684	<b>HIP 66015</b> Ref: 95.347 95.483 95.684 94.191 90.024
<b>HIP 65620</b> Ref: 95.070	86.003 83.020
<b>HIP 65627</b> Ref: 95.070	Comments: Data inadequate for confirmation of
<b>HIP 65628</b> Ref: 95.336 95.704 94.423 93.211 91.102	period from Ref 94.191.
<b>HIP 65637</b> Ref: 95.693	<b>HIP 66017</b> Ref: 95.739 94.464 88.024 87.105 77.016
Comments: Very long-term variations.	68.002 65.005
<b>HIP 65639</b> Ref: 95.390 93.057	<b>HIP 66057</b> Ref: 95.336
<b>HIP 65647</b> Ref: 95.336	<b>HIP 66060</b> Ref: 95.445 95.701
<b>HIP 65660</b> Ref: 91.072 84.142	<b>HIP 66063</b> Ref: 95.701
<b>HIP 65662</b> Ref: 95.701	<b>HIP 66065</b> Ref: 95.684 95.701
<b>HIP 65663</b> Ref: 95.070	<b>HIP 66072</b> Ref: 94.265
<b>HIP 65664</b> Ref: 95.070	<b>HIP 66077</b> Ref: 95.341 89.059
<b>HIP 65678</b> Ref: 95.684	<b>HIP 66078</b> Comments: Period may be half.

- HIP 66086** Ref: 95.062 94.256  
**HIP 66094** Ref: 95.701  
**HIP 66100** Ref: 95.588 95.692 89.031 88.020 86.048  
 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 66113** Ref: 94.256  
**HIP 66115** Ref: 94.111 93.030  
**HIP 66116** Ref: 95.070  
**HIP 66119** Comments: Spikes possibly spurious,  
 variability only suspected.  
**HIP 66121** Ref: 95.336 95.445  
**HIP 66122** Ref: 95.258 95.378 95.697 94.236 94.409  
 93.111 93.128 92.214 40.003 22.006  
**HIP 66141** Ref: 95.697  
**HIP 66142** Ref: 95.111 95.693  
**HIP 66151** Ref: 95.070  
**HIP 66152** Ref: 83.020  
**HIP 66153** Ref: 95.693  
**HIP 66158** Comments: Possible period  $p = 1.5453d$ .  
**HIP 66189** Ref: 92.070 76.025 71.018 64.009 61.002  
 58.001 22.006  
**HIP 66198** Ref: 95.684 94.209  
**HIP 66200** Ref: 95.094 95.327 95.684 94.139 91.053  
 84.043 83.059 71.003  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 66223** Ref: 95.684  
**HIP 66228** Ref: 95.070  
**HIP 66234** Ref: 95.143 95.684  
**HIP 66238** Ref: 95.386  
**HIP 66246** Ref: 95.423 95.445 95.697 94.280 93.130  
**HIP 66247** Ref: 95.684  
**HIP 66249** Ref: 95.379 95.634 95.684  
**HIP 66252** Ref: 95.277 95.341 95.445 95.597 94.007  
 94.188 94.339 94.380 89.059  
**HIP 66253** Ref: 95.693  
**HIP 66254** Ref: 95.445  
**HIP 66257** Ref: 95.006 95.206 95.430 95.596 94.040  
 94.134 94.140 94.145 94.248 94.265 94.419 93.064  
 93.118 92.111 87.073 87.153 85.193 84.081 84.140  
 81.080  
**HIP 66262** Ref: 95.070  
**HIP 66286** Ref: 95.389 95.392 94.175 94.216 93.092  
 Comments: Possible confirmation of period from Ref  
 95.389.  
**HIP 66292** Ref: 95.701  
**HIP 66294** Ref: 95.684  
**HIP 66310** Ref: 95.283  
**HIP 66315** Ref: 95.070  
**HIP 66320** Ref: 95.445 93.015  
**HIP 66326** Ref: 94.256  
**HIP 66328** Ref: 94.256  
**HIP 66329** Ref: 95.070  
**HIP 66334** Ref: 95.701  
**HIP 66339** Ref: 95.070 95.551  
**HIP 66345** Ref: 92.011 92.162 91.117  
 Comments: Possible period  $p = 40.32d$ .  
**HIP 66351** Ref: 95.336  
**HIP 66358** Ref: 93.092 93.118 92.111  
 Comments: Possible period  $p = 39.84d$ .  
**HIP 66378** Ref: 94.280  
**HIP 66383** Ref: 95.482 94.203 94.315 92.070 89.154  
 88.108 76.025 71.018 64.008 64.009 61.002 58.001  
**HIP 66384** Ref: 95.693  
**HIP 66394** Ref: 95.701  
**HIP 66398** Ref: 95.701  
**HIP 66400** Ref: 95.684 95.701  
**HIP 66416** Ref: 95.336  
**HIP 66417** Ref: 95.419 94.436  
**HIP 66428** Ref: 95.701  
**HIP 66433** Ref: 95.701  
**HIP 66458** Ref: 95.684  
**HIP 66459** Ref: 94.410  
**HIP 66466** Ref: 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 66469** Ref: 95.701  
**HIP 66470** Comments: Possible period  $p = 5.042d$ .  
**HIP 66475** Ref: 95.419  
**HIP 66490** Ref: 95.336  
**HIP 66492** Ref: 95.070  
**HIP 66496** Comments: Possible period  $p = 3.767d$ .  
**HIP 66509** Ref: 95.087 95.122 94.043  
**HIP 66511** Ref: 94.406  
**HIP 66519** Ref: 94.188  
**HIP 66522** Ref: 95.684  
**HIP 66538** Ref: 95.283 95.347  
**HIP 66539** Ref: 95.701  
**HIP 66546** Ref: 95.693  
**HIP 66550** Ref: 95.701  
**HIP 66562** Ref: 30.013 22.006  
**HIP 66563** Ref: 95.445 95.701  
**HIP 66571** Ref: 95.701  
**HIP 66572** Comments: Alternative period  $p = 0.21072d$ .  
**HIP 66574** Ref: 95.558  
**HIP 66577** Ref: 95.701  
**HIP 66580** Comments: Possibly EA type.  
**HIP 66607** Ref: 95.336  
**HIP 66634** Ref: 95.684  
**HIP 66635** Ref: 95.336  
**HIP 66640** Ref: 95.684 94.206  
**HIP 66657** Ref: 95.313 94.019 94.205 94.311 92.061  
 81.022 75.016  
 Comments: Possible confirmation of period from Ref  
 81.022.  
**HIP 66665** Ref: 94.188 94.256  
**HIP 66666** Ref: 95.484 94.196  
**HIP 66681** Ref: 95.445  
**HIP 66683** Ref: 95.336  
**HIP 66696** Ref: 95.580 92.070 92.110 90.141 89.154  
 86.066 71.018 64.008 64.009 61.002 58.001 48.001  
 40.003 22.006  
**HIP 66697** Ref: 95.336  
**HIP 66700** Ref: 95.684 95.717 92.005 91.053 87.135  
 85.046 84.043 78.045  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 66708** Ref: 95.389 95.392 94.188  
 Comments: No confirmation of period from Ref  
 95.389.  
**HIP 66725** Ref: 95.062  
**HIP 66727** Ref: 95.684  
**HIP 66738** Ref: 94.436  
**HIP 66739** Ref: 95.701  
**HIP 66742** Ref: 95.701  
**HIP 66790** Ref: 95.693  
**HIP 66798** Ref: 95.684  
**HIP 66800** Ref: 95.684 95.701  
**HIP 66801** Ref: 95.701  
**HIP 66803** Ref: 95.417 94.436  
**HIP 66806** Ref: 95.336  
**HIP 66825** Ref: 95.692 94.196 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 66840** Ref: 95.445  
**HIP 66860** Ref: 95.445 95.658 94.202 85.164  
**HIP 66884** Ref: 95.701  
**HIP 66892** Ref: 95.506 93.015  
**HIP 66904** Ref: 95.693  
**HIP 66907** Ref: 93.015  
**HIP 66925** Ref: 95.693  
**HIP 66927** Ref: 95.445  
**HIP 66932** Ref: 95.701  
**HIP 66948** Ref: 95.693 94.022  
**HIP 66959** Ref: 95.259 94.246 94.280  
**HIP 66961** Ref: 95.701  
**HIP 66974** Ref: 94.406  
**HIP 67004** Ref: 95.684  
**HIP 67005** Ref: 95.684  
**HIP 67006** Ref: 95.701  
**HIP 67010** Ref: 94.432  
**HIP 67013** Ref: 93.073 93.092 93.118 92.111 84.159  
**HIP 67026** Ref: 95.701

- HIP 67036** Ref: 95.014 95.320 95.321 94.182 93.119  
91.051 91.053 85.042 84.043 83.058  
Comments: Period from Ref 84.043 confirmed.
- HIP 67042** Ref: 95.336
- HIP 67057** Ref: 95.445
- HIP 67060** Ref: 95.629 93.091
- HIP 67064** Ref: 95.701
- HIP 67069** Ref: 94.406
- HIP 67070** Ref: 93.093 93.095
- HIP 67087** Ref: 95.378 95.410 95.697 94.236 94.409  
93.111 93.128 92.214 91.090
- HIP 67139** Ref: 95.684
- HIP 67140** Ref: 95.701
- HIP 67143** Ref: 95.684 95.701
- HIP 67153** Ref: 95.012
- HIP 67155** Ref: 94.410
- HIP 67172** Ref: 95.558
- HIP 67186** Ref: 94.248 85.049
- HIP 67194** Ref: 95.684
- HIP 67206** Ref: 95.693
- HIP 67227** Ref: 95.297 95.379 94.236 93.263 82.054  
77.031
- HIP 67231** Ref: 95.684 94.202 91.053 84.043 80.015  
Comments: Period from Ref 84.043 confirmed.
- HIP 67232** Ref: 95.693
- HIP 67234** Ref: 93.092
- HIP 67246** Ref: 95.445
- HIP 67250** Ref: 94.256
- HIP 67257** Ref: 95.336
- HIP 67261** Ref: 92.034 83.020
- HIP 67268** Ref: 95.697
- HIP 67275** Ref: 95.379 95.671 94.257 94.407 93.015  
93.064
- HIP 67279** Ref: 95.445 95.551 95.629
- HIP 67288** Ref: 95.417 94.204  
Comments: Possible period  $p = 3.762d$ .
- HIP 67301** Ref: 95.022 95.313 95.515 95.563 94.390  
94.403 89.103
- HIP 67308** Comments: The double-star analysis indicates  
that it may be the fainter (B) component which is  
variable. Other notes: D.
- HIP 67313** Ref: 58.002 52.002
- HIP 67338** Ref: 94.256
- HIP 67354** Ref: 95.378 95.697 94.236 93.111 93.128  
92.214
- HIP 67359** Ref: 95.692 88.020 81.016 77.027 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 67385** Ref: 95.445
- HIP 67405** Ref: 95.336
- HIP 67410** Ref: 95.588 93.081 89.031 88.020 86.141  
85.222 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 67419** Ref: 95.065 95.165 95.203 95.230 95.254  
95.319 95.491 95.518 95.530 95.581 95.588 95.680  
95.701 94.196 80.003 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 67424** Ref: 95.445
- HIP 67431** Ref: 95.359 94.323 91.123
- HIP 67436** Ref: 95.693
- HIP 67457** Ref: 95.484 94.196 92.011
- HIP 67459** Ref: 95.419
- HIP 67464** Ref: 95.632 89.029 83.021  
Comments: Confirmation of period from Ref 83.021.
- HIP 67472** Ref: 95.104 95.267 95.325 94.198 94.403  
93.063 91.062 91.128 89.029 87.114 86.087
- HIP 67480** Ref: 95.419
- HIP 67483** Ref: 95.684
- HIP 67487** Ref: 95.384 95.445
- HIP 67494** Ref: 94.407
- HIP 67496** Ref: 95.701
- HIP 67523** Ref: 95.684 95.701
- HIP 67535** Ref: 95.445
- HIP 67545** Ref: 95.526
- HIP 67548** Ref: 95.684 94.209
- HIP 67556** Ref: 91.096 77.020 75.002 22.006
- HIP 67561** Ref: 95.701
- HIP 67566** Ref: 93.190 92.110 83.073 81.076 71.018  
64.008 64.009 61.002 58.001 48.001
- HIP 67589** Ref: 95.390 94.407
- HIP 67596** Ref: 95.684
- HIP 67605** Ref: 94.436
- HIP 67615** Ref: 93.092
- HIP 67620** Ref: 95.386 95.445
- HIP 67626** Ref: 95.692 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 67627** Ref: 95.417 95.499 94.436
- HIP 67641** Ref: 90.059
- HIP 67642** Ref: 95.693 89.034
- HIP 67648** Ref: 95.445
- HIP 67652** Ref: 94.174
- HIP 67653** Ref: 95.378 95.410 95.697 94.236 94.282  
94.286 94.409 93.111 93.128 93.285 92.214 73.024
- HIP 67655** Ref: 95.087 95.122 95.445 95.697 94.043
- HIP 67665** Ref: 95.419  
Comments: Possible period  $p = 42.52d$ .
- HIP 67669** Ref: 93.088
- HIP 67682** Ref: 95.359 94.323 84.028 82.081  
Comments: Data from Hipparcos and literature give  
 $p = 0.3431692d$  (18042 cycles).
- HIP 67696** Ref: 95.701
- HIP 67704** Comments: Possible period  $p = 20.04d$ .
- HIP 67709** Comments: Possible period  $p = 338d$ .
- HIP 67714** Ref: 95.684
- HIP 67742** Ref: 95.445
- HIP 67744** Ref: 93.092 77.001
- HIP 67746** Comments: More than 0.6 mag fainter than  
expected.
- HIP 67782** Ref: 95.684
- HIP 67786** Ref: 95.701
- HIP 67787** Ref: 95.062 94.175 94.216 93.015
- HIP 67794** Ref: 94.259
- HIP 67799** Comments: Possible period  $p = 5.345d$ .
- HIP 67822** Ref: 95.445 95.697
- HIP 67848** Ref: 95.684 94.209
- HIP 67851** Ref: 95.445
- HIP 67852** Ref: 95.701
- HIP 67861** Ref: 95.144 94.403
- HIP 67863** Ref: 95.122 95.445 94.043
- HIP 67864** Ref: 95.701
- HIP 67892** Ref: 95.701
- HIP 67917** Comments: Possible period  $p = 3.348d$ .
- HIP 67927** Ref: 95.379 95.383 95.415 95.432 95.608  
95.691 95.698 94.175 94.216 94.407 94.410 93.015  
93.050
- HIP 67964** Ref: 95.445 95.697
- HIP 67973** Comments: Possible period  $p = 0.38168d$ .
- HIP 67976** Ref: 95.297 95.378 95.697 94.236 94.282  
94.286 93.111 93.128 82.054 77.031
- HIP 67977** Ref: 95.050
- HIP 67984** Comments: Possible period  $p = 3.6625d$ .
- HIP 68002** Ref: 95.232 83.021  
Comments: No confirmation of period from Ref  
83.021. Possible period  $p = 9.25d$ .
- HIP 68021** Ref: 95.701
- HIP 68023** Ref: 95.090 95.499 95.704 94.423 93.211  
91.102  
Comments: Possible confirmation of period from Ref  
95.090.
- HIP 68030** Ref: 95.445
- HIP 68034** Ref: 95.693
- HIP 68038** Ref: 94.406
- HIP 68043** Ref: 95.701
- HIP 68064** Ref: 91.096 84.149 83.065 78.035 78.036  
65.005
- HIP 68092** Ref: 95.445 95.684
- HIP 68101** Ref: 95.445 94.095
- HIP 68137** Ref: 94.196
- HIP 68177** Ref: 95.090 95.704 94.423 93.211 91.102

- HIP 68178** Comments: Range of variations smaller than expected.
- HIP 68180** Ref: 93.092
- HIP 68188** Ref: 95.697 94.409 93.111 93.128 89.022 82.041
- HIP 68245** Ref: 94.311
- HIP 68246** Ref: 95.087 95.122 94.043
- HIP 68258** Ref: 95.694 95.724 95.745 94.047 94.462 93.118 90.053 89.060 89.068 87.087 85.011 84.187 82.037 80.049 67.003
- HIP 68263** Ref: 94.406
- HIP 68273** Ref: 95.445
- HIP 68276** Ref: 95.684
- HIP 68285** Comments: Possible period  $p = 56.52d$ .
- HIP 68292** Ref: 95.297 95.378 95.697 94.236 94.282 94.286 94.409 93.111 93.128 82.054 77.031 66.008
- HIP 68297** Ref: 95.551 95.629 94.055
- HIP 68309** Ref: 94.406
- HIP 68321** Ref: 95.193 94.270
- HIP 68343** Ref: 95.701
- HIP 68372** Ref: 95.701 94.189
- HIP 68380** Ref: 95.445
- HIP 68390** Ref: 95.445
- HIP 68413** Ref: 95.445
- HIP 68431** Ref: 95.336
- HIP 68434** Ref: 95.701
- HIP 68464** Ref: 95.122 95.433 95.697 94.043
- HIP 68466** Ref: 95.283
- HIP 68469** Ref: 95.445
- HIP 68478** Ref: 95.684
- HIP 68498** Ref: 95.684
- HIP 68516** Ref: 94.406
- HIP 68520** Ref: 95.684 93.088
- HIP 68543** Ref: 95.373 94.374
- HIP 68594** Ref: 95.163 95.205 95.259 95.383 95.433 95.445 95.549 95.691 95.697 94.095 94.280 94.407 93.130
- HIP 68613** Ref: 95.701
- HIP 68620** Ref: 95.693
- HIP 68637** Ref: 95.684
- HIP 68641** Ref: 95.701
- HIP 68660** Ref: 95.389 95.392 94.175 94.216 90.059  
Comments: No confirmation of period from Ref 95.389.
- HIP 68673** Ref: 95.320 95.321 94.182 93.127 91.051 91.053 85.042 84.043 83.058  
Comments: Period from Ref 84.043 confirmed.
- HIP 68682** Ref: 95.386
- HIP 68685** Ref: 95.336
- HIP 68702** Ref: 95.069 94.311 94.390 75.016
- HIP 68704** Ref: 95.693
- HIP 68707** Ref: 95.445
- HIP 68753** Ref: 95.701
- HIP 68756** Ref: 95.338 95.563 95.684 94.378
- HIP 68796** Ref: 95.193
- HIP 68802** Ref: 95.701
- HIP 68807** Ref: 95.433 95.445 95.697 94.095 93.130
- HIP 68808** Ref: 95.684
- HIP 68815** Ref: 30.013 22.006 7.001
- HIP 68817** Ref: 95.693
- HIP 68821** Ref: 95.701
- HIP 68834** Ref: 95.701
- HIP 68837** Comments: Possible period  $p = 266d$ .
- HIP 68891** Ref: 95.701
- HIP 68902** Ref: 95.022 95.388 95.693
- HIP 68908** Ref: 95.378 95.697 94.236 94.409 93.111 93.128 92.214 91.090 69.011 66.008 40.003 22.006
- HIP 68913** Comments: Possible period  $p = 4.003d$ .
- HIP 68915** Comments: Possible period  $p = 6.546d$ .
- HIP 68936** Ref: 95.445
- HIP 68937** Ref: 95.332 92.011  
Comments: Possible period  $p = 57.4d$ .
- HIP 68940** Ref: 95.445 95.684 93.015
- HIP 68953** Ref: 95.701
- HIP 68956** Ref: 95.684
- HIP 68960** Ref: 95.693
- HIP 68965** Ref: 95.701
- HIP 68995** Ref: 95.022 95.388 95.693 94.059 94.357
- HIP 68998** Comments: Possible period  $p = 34.86d$ .
- HIP 69029** Ref: 95.313 91.096 84.010 84.012 83.036 83.063
- HIP 69038** Ref: 95.419 95.475 95.499 94.436
- HIP 69050** Comments: The double-star analysis indicates that it is the fainter (B) component which is variable.  
Other notes: D.
- HIP 69089** Ref: 95.390
- HIP 69090** Ref: 95.386 95.445
- HIP 69112** Ref: 94.134 93.092
- HIP 69174** Ref: 85.003
- HIP 69176** Ref: 94.174
- HIP 69190** Ref: 95.445
- HIP 69201** Ref: 95.445
- HIP 69213** Ref: 95.701
- HIP 69220** Ref: 95.445
- HIP 69225** Ref: 95.701
- HIP 69226** Ref: 95.379
- HIP 69241** Ref: 95.004
- HIP 69247** Ref: 95.629
- HIP 69256** Ref: 90.084
- HIP 69261** Ref: 95.693
- HIP 69269** Ref: 95.332 92.011
- HIP 69298** Ref: 95.445
- HIP 69306** Ref: 95.697 85.084 84.087 71.018 64.009 58.003
- HIP 69325** Comments: Possible period  $p = 2.4607d$ .
- HIP 69340** Ref: 95.427 95.445
- HIP 69346** Ref: 95.692 89.031 88.020 86.048 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 69375** Ref: 93.211 91.102
- HIP 69389** Ref: 95.223 95.314 95.327 95.684 94.202 91.053 85.046 84.043 78.018 78.028 76.013  
Comments: Period from Ref 84.043 confirmed.
- HIP 69403** Comments: Possible alternative period  $p = 0.67056d$ .
- HIP 69414** Ref: 95.386 94.406
- HIP 69427** Ref: 95.390 95.419
- HIP 69449** Ref: 95.332 92.011 92.162
- HIP 69462** Ref: 93.043
- HIP 69468** Ref: 95.445 94.280
- HIP 69470** Ref: 95.445 95.697
- HIP 69481** Ref: 95.073
- HIP 69483** Ref: 95.073 95.202 95.347 95.483 95.684 94.191 91.203 90.024 71.014  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 69491** Ref: 95.388 85.118
- HIP 69493** Ref: 95.445
- HIP 69500** Ref: 94.406
- HIP 69514** Ref: 94.206
- HIP 69518** Ref: 94.248
- HIP 69525** Ref: 95.445
- HIP 69536** Ref: 95.432 95.445 95.671 94.256 93.050
- HIP 69560** Ref: 95.701
- HIP 69564** Ref: 95.445
- HIP 69582** Ref: 95.693
- HIP 69592** Ref: 95.684
- HIP 69599** Ref: 95.701
- HIP 69602** Ref: 95.701
- HIP 69617** Ref: 95.693
- HIP 69618** Ref: 94.198
- HIP 69619** Ref: 95.142
- HIP 69623** Ref: 95.445 95.684 95.701
- HIP 69628** Ref: 95.388 95.693 94.189
- HIP 69650** Ref: 95.684
- HIP 69658** Ref: 95.684
- HIP 69671** Ref: 95.445

- HIP 69673** Ref: 95.027 95.062 95.066 95.072 95.097  
95.299 95.300 95.353 95.383 95.392 95.419 95.468  
95.483 95.549 95.606 95.624 95.628 95.644 95.687  
95.698 95.702 94.042 94.264 94.273 94.290 94.378  
94.382 94.407 94.416 93.015 93.064 89.055 88.037  
86.068
- HIP 69695** Ref: 94.432
- HIP 69701** Ref: 95.064 95.124 95.379 95.427 95.432  
95.671 95.698 94.056 94.289 94.331 93.015 93.050  
93.064
- HIP 69713** Ref: 95.347 95.379 95.684 95.721 94.191  
94.457  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 69722** Ref: 95.445
- HIP 69727** Ref: 95.445 95.684
- HIP 69732** Ref: 95.033 95.060 95.150 95.327 95.684  
94.046
- HIP 69746** Ref: 95.445
- HIP 69747** Ref: 95.684
- HIP 69753** Ref: 94.406
- HIP 69754** Ref: 95.588 95.692 94.379 89.031 88.020  
86.048 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 69759** Ref: 95.379 95.697 94.123 94.261 94.409  
93.111 90.052 82.041 73.024  
Comments: Light curve appears like an RRab,  
although literature gives RRc.
- HIP 69779** Ref: 95.359 94.323 88.127 85.118 71.022  
22.006 7.001
- HIP 69781** Ref: 58.004  
Comments: Ephemeris from Ref 58.004 confirmed,  
new period derived from old ephemeris and new zero  
point. Minimum has been observed.
- HIP 69788** Comments: Measurements perturbed by the  
bright neighbour HIP 69783, 28.7 arcsec distant.  
Multiple system. Variability spurious.
- HIP 69816** Ref: 95.588 89.031 88.020 86.141 85.222  
22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 69818** Ref: 95.684
- HIP 69825** Ref: 95.693
- HIP 69829** Ref: 95.419
- HIP 69850** Comments: Possible period  $p = 4.254d$ .
- HIP 69858** Ref: 94.221
- HIP 69860** Comments: Double star processed as single.  
Microvariability probably spurious. Separation 21  
arcsec.
- HIP 69879** Ref: 95.390 93.092
- HIP 69881** Ref: 95.432 95.445 94.056 93.050
- HIP 69892** Ref: 95.693 94.189
- HIP 69894** Comments: Possibly EA type. Other notes: G.
- HIP 69896** Ref: 95.684
- HIP 69904** Ref: 95.445
- HIP 69929** Ref: 95.320 95.321 95.327 95.684 94.065  
94.139 94.182 94.202 92.015 92.044 91.053 85.046  
84.043 78.040 72.015 70.001  
Comments: Period from Ref 84.043 confirmed.
- HIP 69958** Ref: 95.684
- HIP 69962** Ref: 95.445
- HIP 69972** Ref: 95.445 94.410
- HIP 69974** Ref: 95.684 83.020
- HIP 69980** Comments: Possible period  $p = 2.4477d$  or  
related.
- HIP 69981** Comments: Sudden increase in brightness  
half-way the mission.
- HIP 69989** Ref: 95.427 95.445 93.015 93.075
- HIP 69990** Ref: 95.701
- HIP 69995** Ref: 95.684
- HIP 69996** Ref: 94.311
- HIP 70012** Ref: 94.407
- HIP 70016** Ref: 95.445
- HIP 70020** Comments: Period may be double.
- HIP 70022** Ref: 95.445 95.684
- HIP 70027** Ref: 95.419 95.433 94.407
- HIP 70029** Ref: 95.684
- HIP 70035** Ref: 95.684 83.020
- HIP 70050** Ref: 95.701
- HIP 70051** Ref: 95.684
- HIP 70052** Ref: 95.388 95.693
- HIP 70074** Ref: 95.693
- HIP 70079** Comments: Wrongly identified with CW Lup  
in Hipparcos Input Catalogue. Other notes: G.
- HIP 70089** Ref: 94.206
- HIP 70090** Ref: 95.033 95.684
- HIP 70098** Ref: 95.445
- HIP 70101** Comments: Possibly EA type.
- HIP 70104** Ref: 95.684 93.015
- HIP 70134** Comments: Possible period  $p = 3.876d$ .
- HIP 70170** Ref: 95.445
- HIP 70199** Ref: 95.445 93.130
- HIP 70203** Ref: 85.054 76.025 71.018 64.009 61.002  
58.001
- HIP 70228** Ref: 95.693
- HIP 70245** Comments: Possible period  $p = 3.168d$ .
- HIP 70248** Comments: Probably GCAS star. One burst  
first half of the mission.
- HIP 70270** Ref: 95.693 91.102
- HIP 70275** Ref: 95.629
- HIP 70291** Ref: 95.588 88.020 86.141 85.222 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 70300** Ref: 91.053 85.175 84.043 73.007  
Comments: Period from Ref 84.043 confirmed.
- HIP 70319** Ref: 95.193 95.445 95.671 94.188 93.064
- HIP 70327** Ref: 95.684
- HIP 70330** Ref: 95.445
- HIP 70336** Ref: 95.445
- HIP 70339** Ref: 30.013 22.006 7.001
- HIP 70346** Ref: 93.119 91.053 85.042 84.043 83.058  
Comments: Period from Ref 84.043 confirmed.
- HIP 70375** Ref: 95.701
- HIP 70381** Ref: 95.445 94.280
- HIP 70384** Ref: 95.684 84.131
- HIP 70386** Ref: 93.224
- HIP 70393** Comments: Possibly EA type, but insufficient  
data.
- HIP 70400** Ref: 95.684
- HIP 70401** Ref: 95.203 95.230 95.254 95.319 95.398  
95.491 95.581 94.067 94.407 88.049 22.006 7.001
- HIP 70414** Ref: 94.256
- HIP 70450** Comments: Possible period  $p = 9.954d$ .
- HIP 70492** Ref: 95.684 95.693  
Comments: Possible period  $p = 674.0d$ .
- HIP 70497** Ref: 95.064 95.338 95.658 95.698 94.265
- HIP 70510** Ref: 94.202
- HIP 70518** Ref: 95.684
- HIP 70519** Ref: 95.445 95.697 94.095
- HIP 70520** Ref: 93.050
- HIP 70538** Ref: 95.445
- HIP 70553** Ref: 95.014 95.320 95.321 95.327 95.339  
94.139 94.182 94.202 91.053 84.043
- HIP 70574** Ref: 94.019 94.205 87.025 81.022 80.029  
75.016  
Comments: Confirmation of period from Ref 80.029.
- HIP 70602** Ref: 95.445 95.684
- HIP 70619** Ref: 94.206
- HIP 70635** Ref: 95.374 95.682 94.280
- HIP 70647** Ref: 95.441 95.442 95.445 95.697 94.271
- HIP 70657** Ref: 89.067
- HIP 70659** Ref: 95.693
- HIP 70663** Ref: 95.684 94.174 83.020
- HIP 70669** Ref: 95.581 93.081 89.031 88.020 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 70680** Ref: 95.684
- HIP 70681** Ref: 94.256
- HIP 70685** Ref: 95.684 93.015
- HIP 70695** Ref: 95.445

- HIP 70702** Ref: 95.378 95.697 94.236 94.282 94.286  
94.409 93.111 93.128 35.001 22.006
- HIP 70730** Ref: 95.693
- HIP 70733** Ref: 95.693
- HIP 70751** Ref: 95.378 94.236
- HIP 70769** Comments: Possible period  $p = 2.5678d$ .
- HIP 70781** Ref: 95.684
- HIP 70786** Ref: 95.684
- HIP 70808** Ref: 95.693
- HIP 70816** Comments: Possible period  $p = 250d$ .
- HIP 70832** Comments: Possible period  $p = 47.74d$ .
- HIP 70873** Ref: 95.432 93.050
- HIP 70874** Ref: 89.067
- HIP 70877** Ref: 95.693
- HIP 70885** Ref: 94.196 94.379 94.468 90.050 30.013  
22.006 7.001
- HIP 70890** Ref: 95.053 95.173 95.505 95.597 94.007  
94.248 94.265 94.380 94.410 94.471 91.136 90.010  
89.015 88.091
- HIP 70892** Ref: 95.684 94.229
- HIP 70894** Ref: 95.445 95.684
- HIP 70902** Comments: Possible period  $p = 1.0459d$ .
- HIP 70904** Ref: 95.347 94.191 90.024 86.008  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 70931** Ref: 95.684
- HIP 70935** Ref: 94.216 90.059
- HIP 70945** Ref: 90.145  
Comments: Two possible periods  $p = 24.615d$  (from  
Ref 90.145) or  $p = 8.0299d$ .
- HIP 70952** Ref: 93.015
- HIP 70953** Ref: 95.347 94.191 92.072 91.156  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 70956** Ref: 95.445
- HIP 70969** Ref: 95.332 22.006 7.001
- HIP 70970** Comments: Variations possibly due to a  
companion. A triple star with HIP 70976. Strongly  
disturbed by the bright double at NE, 26 arcsec  
distant. Magnitude difference  $-4.1$ . Variability  
spurious.
- HIP 70972** Ref: 95.347 94.191 93.237  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 71002** Ref: 89.067
- HIP 71040** Ref: 95.684 94.191 92.069 90.112  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 71053** Ref: 95.419
- HIP 71075** Ref: 95.338 95.347 95.558 95.684 94.191  
92.210 79.009 71.014  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 71094** Ref: 95.684 94.206
- HIP 71096** Ref: 95.117
- HIP 71104** Comments: Possibly EA type.
- HIP 71115** Ref: 93.015
- HIP 71116** Ref: 95.445 95.452 93.190 92.070 92.110  
90.004 89.154 85.054 82.056 82.091 76.025 71.018  
64.009 61.002 58.001 40.003 22.006 7.001
- HIP 71121** Ref: 91.102
- HIP 71146** Ref: 94.256
- HIP 71168** Ref: 95.347
- HIP 71184** Ref: 95.445
- HIP 71186** Ref: 95.378 95.379 95.697 95.726 94.123  
94.236 94.409 93.111 92.214 91.090 88.039 46.002  
40.003 30.013 22.006
- HIP 71264** Ref: 95.693
- HIP 71282** Ref: 95.693
- HIP 71284** Ref: 95.379 95.419 95.432 95.471 95.658  
95.684 95.702 93.050
- HIP 71295** Ref: 95.445 95.684
- HIP 71313** Comments: Period could be half this value.
- HIP 71319** Ref: 95.715 92.171 86.038
- HIP 71332** Ref: 95.029 95.117 93.044 93.092 90.059  
90.087 77.015 67.015
- HIP 71352** Ref: 95.267 95.325 94.090 94.198 94.311  
94.390 91.128 90.028 89.029 89.148  
Comments: Type GCAS in Hipparcos Input  
Catalogue but seems more likely to be EB.
- HIP 71353** Ref: 95.267
- HIP 71364** Ref: 95.445
- HIP 71375** Ref: 95.423 95.697
- HIP 71380** Ref: 95.430 94.419 93.073 93.118 30.013  
22.006
- HIP 71386** Ref: 22.006
- HIP 71414** Ref: 95.445
- HIP 71455** Comments: Possible period  $p = 20.20d$ .
- HIP 71458** Ref: 95.087 95.122 95.259 95.441 95.442  
95.445 95.697 94.043
- HIP 71469** Ref: 95.445 94.188 94.256
- HIP 71487** Ref: 93.230 93.233
- HIP 71490** Ref: 95.588 95.692 93.081 88.020 86.141  
85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 71492** Ref: 85.054
- HIP 71529** Comments: Possible period  $p = 1.9996d$ .
- HIP 71530** Ref: 95.445
- HIP 71536** Ref: 95.314
- HIP 71548** Ref: 94.206
- HIP 71573** Ref: 95.684
- HIP 71615** Ref: 94.246
- HIP 71618** Ref: 95.684 76.039
- HIP 71631** Ref: 95.064 95.079 95.285 95.386 95.532  
95.671 94.265 94.353 94.440 91.111 90.029 90.069
- HIP 71632** Ref: 94.406
- HIP 71639** Ref: 95.445
- HIP 71644** Ref: 95.230 94.051 94.196 22.006
- HIP 71658** Ref: 95.445
- HIP 71666** Ref: 94.189
- HIP 71668** Ref: 95.693
- HIP 71681** Ref: 95.124 95.224 95.262 95.277 95.698  
94.248 94.257 93.039
- HIP 71683** Ref: 95.011 95.012 95.044 95.054 95.156  
95.159 95.210 95.224 95.257 95.277 95.299 95.505  
95.524 95.698 94.002 94.056 94.248 94.257 94.265  
94.410 93.050 89.145
- HIP 71686** Ref: 93.030
- HIP 71700** Ref: 83.038
- HIP 71759** Ref: 95.684
- HIP 71761** Ref: 95.445
- HIP 71762** Ref: 95.684 84.043
- HIP 71783** Ref: 95.684
- HIP 71795** Ref: 95.684
- HIP 71802** Ref: 95.230 94.196 22.006
- HIP 71819** Ref: 94.256
- HIP 71832** Ref: 95.383 95.433 94.407
- HIP 71860** Ref: 95.180 94.019 94.142 94.205 92.061  
81.022 80.029 75.016  
Comments: Confirmation of period from Ref 80.029.
- HIP 71861** Ref: 95.445
- HIP 71872** Ref: 95.171 94.216
- HIP 71876** Ref: 95.347 95.483 95.684 90.024 90.112  
81.065
- HIP 71908** Ref: 95.320 95.321 95.684 94.112 94.174  
94.182 94.202 94.516 91.053 84.016 84.043
- HIP 71922** Comments: A double star with 22 arcsec  
separation. Variability probably spurious.
- HIP 71925** Ref: 95.546
- HIP 71957** Ref: 94.289 93.015
- HIP 71960** Ref: 95.347 94.191  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 71989** Ref: 93.030
- HIP 71995** Ref: 95.419 92.162  
Comments: Detected period very different from  
literature.
- HIP 72000** Ref: 95.004
- HIP 72010** Ref: 95.558



- HIP 72026** Ref: 30.013 22.006  
**HIP 72038** Ref: 95.445  
**HIP 72104** Ref: 95.684  
**HIP 72105** Ref: 95.385 95.398 95.419 95.501 95.684  
**HIP 72115** Ref: 95.378 95.697 94.236 94.409 93.111  
 93.128 93.129 92.207 92.214 91.090 66.008 40.003  
**HIP 72119** Ref: 95.445  
**HIP 72121** Ref: 94.019 94.205 85.010  
**HIP 72131** Ref: 95.684  
**HIP 72138** Ref: 88.125  
**HIP 72154** Ref: 95.551  
**HIP 72177** Ref: 83.038  
**HIP 72192** Ref: 95.642  
**HIP 72208** Ref: 95.419  
 Comments: Possible period  $p = 1.7842d$ .  
**HIP 72209** Comments: Another possible period  
 $p = 2.43250d$ .  
**HIP 72220** Ref: 95.150 95.338 95.515 95.684 94.311  
 84.193  
**HIP 72222** Comments: Gradient over the mission,  
 discrepancy AC-DC: probably incorrect colour used in  
 reductions.  
**HIP 72241** Ref: 94.019 94.205 91.102 83.028  
**HIP 72250** Ref: 95.445 95.684  
**HIP 72257** Ref: 95.452 90.119 86.032 85.054 81.027  
**HIP 72264** Ref: 95.411 92.085 92.110 90.004 85.244  
**HIP 72268** Comments: Possible alternative period  
 $p = 4.66423d$ .  
**HIP 72291** Ref: 93.211 91.102  
**HIP 72300** Ref: 91.002 88.020 22.006  
 Comments: Ephemeris based on AAVSO data. Other  
 notes: G.  
**HIP 72302** Ref: 94.189  
**HIP 72323** Ref: 95.327 95.684  
**HIP 72338** Ref: 95.445  
**HIP 72342** Ref: 82.041  
**HIP 72377** Comments: Alternative period  $p = 13.97624d$ .  
**HIP 72378** Ref: 95.684  
**HIP 72381** Ref: 89.070  
**HIP 72388** Ref: 94.148  
**HIP 72391** Comments: May also be eclipsing at double  
 the period.  
**HIP 72432** Comments: Possible period  $p = 2.2575d$ .  
**HIP 72438** Comments: One burst observed in the first  
 half of the mission.  
**HIP 72444** Ref: 95.297 95.697 94.236 82.054 77.031  
**HIP 72447** Ref: 94.206  
**HIP 72449** Ref: 95.684  
**HIP 72461** Ref: 95.122 95.193 95.235 94.043 94.244  
 94.270 94.389  
**HIP 72469** Ref: 95.658  
**HIP 72471** Ref: 95.445 93.015  
**HIP 72487** Ref: 93.015  
**HIP 72489** Ref: 95.684 94.202  
**HIP 72507** Ref: 95.445  
**HIP 72510** Ref: 95.388 95.693  
**HIP 72552** Ref: 95.684  
**HIP 72566** Comments: Possible period  $p = 1.9770d$ .  
**HIP 72567** Ref: 95.386 94.188  
**HIP 72569** Ref: 95.693  
**HIP 72573** Ref: 95.386  
**HIP 72577** Ref: 95.445  
**HIP 72583** Ref: 95.411 92.205 90.004 85.054  
 Comments: Component HIP 72588 at some 30  
 arcsec. Minimum brighter than expected. Period good.  
**HIP 72592** Comments: One large burst just after start of  
 mission.  
**HIP 72603** Ref: 93.015  
**HIP 72607** Ref: 95.062 95.268 95.625 93.029  
**HIP 72616** Ref: 95.693 94.211  
**HIP 72617** Ref: 91.102  
**HIP 72622** Ref: 95.684 83.020  
**HIP 72625** Comments: A double star processed as single.  
 Separation about 12 arcsec. Variability spurious.  
**HIP 72629** Ref: 93.211 91.102  
**HIP 72631** Ref: 95.445 93.211 91.102 85.090  
**HIP 72637** Comments: Possible period  $p = 5.158d$ .  
**HIP 72659** Ref: 95.011 95.064 95.124 95.268 95.277  
 95.300 95.308 95.460 95.658 95.671 95.698 94.007  
 94.042 94.257 94.265 94.410 93.075  
**HIP 72673** Ref: 95.399 94.056 93.050  
**HIP 72675** Ref: 94.256  
**HIP 72683** Ref: 95.267  
**HIP 72688** Ref: 95.445  
**HIP 72691** Ref: 95.050 95.297 94.236 93.116 85.078  
**HIP 72710** Comments: Alternative possible period  
 $p = 0.82539d$ .  
**HIP 72721** Ref: 94.236  
**HIP 72772** Ref: 95.445 94.056 93.050  
**HIP 72773** Ref: 95.580 94.315 92.020 92.110 89.154  
 88.108 76.021 71.018  
 Comments: Also recognised in Ref 92.110 as a  
 double star. Period good.  
**HIP 72848** Ref: 95.386 95.389 95.392 93.118  
 Comments: Possible confirmation of period from Ref  
 95.389.  
**HIP 72934** Ref: 95.445 95.558 93.015 93.211 91.102  
**HIP 72965** Comments: Possible period  $p = 1.2578d$ .  
**HIP 72966** Comments: Variations could be related to  
 companion.  
**HIP 72992** Comments: Possible period  $p = 5.305d$ .  
**HIP 72998** Ref: 95.445 94.188  
**HIP 73005** Ref: 95.193 95.383 94.188 94.256 94.407  
**HIP 73007** Ref: 94.036 94.148 93.211 91.102  
**HIP 73049** Ref: 95.684  
**HIP 73068** Ref: 95.684  
**HIP 73087** Ref: 95.684  
**HIP 73095** Ref: 95.684  
**HIP 73103** Ref: 85.142 83.053 78.016 77.028  
**HIP 73129** Comments: Large variation over the mission,  
 time scale  $> 1000d$ .  
**HIP 73133** Ref: 93.211 91.102  
**HIP 73152** Ref: 95.450 76.025  
 Comments: Possible period  $p = 37.13d$ , but very  
 noisy.  
**HIP 73156** Ref: 95.684  
**HIP 73165** Ref: 95.379 95.684  
**HIP 73182** Ref: 95.445 94.257 94.407  
**HIP 73184** Ref: 95.445 95.475 94.188 94.256 94.257  
 94.339 94.407  
**HIP 73192** Comments: The double-star analysis indicates  
 that it is the fainter (B) component which is variable.  
 Other notes: D.  
**HIP 73199** Ref: 94.542 83.041  
 Comments: Possible period  $p = 1.5082d$ .  
**HIP 73213** Ref: 94.196 92.011  
**HIP 73241** Ref: 95.445  
**HIP 73247** Comments: Period may be half this value.  
**HIP 73249** Ref: 95.684  
**HIP 73254** Comments: Possible period  $p = 1.2578d$ .  
**HIP 73273** Ref: 95.632 94.311  
**HIP 73284** Ref: 95.684 83.020  
**HIP 73288** Comments: Possible period  $p = 7.302d$ .  
**HIP 73310** Ref: 95.390 95.445 95.644 94.407  
**HIP 73315** Ref: 95.140 94.191 94.306 94.307 93.161  
 93.279 92.147 90.024 86.001 86.148 85.115 83.023  
 79.030 77.030 74.028 69.011 66.011  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 73334** Ref: 95.515  
**HIP 73354** Ref: 95.445 94.289  
**HIP 73366** Ref: 94.406 93.015  
**HIP 73381** Ref: 22.006 7.001  
**HIP 73385** Ref: 95.193 95.697 94.389  
**HIP 73415** Ref: 89.067  
**HIP 73426** Comments: Possible period  $p = 19.64d$ .  
**HIP 73441** Comments: Possible period  $p = 0.4166d$ .  
**HIP 73454** Ref: 95.327 95.684 94.202 91.053 84.043  
 80.032 78.038 77.009 76.039 73.004  
 Comments: Period from Ref 84.043 confirmed.

- HIP 73473** Ref: 95.197 95.586 95.684 79.026 24.004  
22.006 7.001
- HIP 73483** Ref: 95.347 94.191 90.024 81.096  
Comments: Confirmation of period from Ref 94.191.
- HIP 73493** Ref: 89.067
- HIP 73497** Ref: 95.445 92.133
- HIP 73507** Ref: 95.684
- HIP 73533** Comments: Ephemeris based on AAVSO data.  
Other notes: G.
- HIP 73536** Ref: 92.133
- HIP 73540** Ref: 89.067
- HIP 73555** Ref: 95.226 95.419 93.015 93.029
- HIP 73559** Ref: 95.445
- HIP 73566** Ref: 95.445 95.684 83.020
- HIP 73568** Ref: 95.419
- HIP 73604** Comments: Possible period  $p = 4.0830d$ .
- HIP 73608** Ref: 95.684
- HIP 73662** Comments: Possible period  $p = 9.141d$ .
- HIP 73695** Ref: 96.003 95.438 95.555 95.658 95.699  
95.753 94.257 94.265 94.472 93.219 92.131 92.172  
91.169 90.022 90.122 90.127 89.090 89.097 89.108  
89.121 87.105 86.083 85.036 85.124 84.134 84.141  
84.149 81.040 81.054 78.037 72.013 71.020 70.004  
69.007 58.002 56.005 55.001 55.003 39.001 39.002  
30.013 29.001
- HIP 73706** Ref: 95.684
- HIP 73711** Ref: 94.414
- HIP 73714** Ref: 94.204 93.057 92.011
- HIP 73716** Ref: 95.684
- HIP 73721** Ref: 95.697 93.092
- HIP 73745** Ref: 95.419
- HIP 73763** Comments: Possible period  $p = 6.47d$ .
- HIP 73807** Ref: 94.420
- HIP 73812** Ref: 93.211
- HIP 73841** Ref: 95.684
- HIP 73862** Ref: 95.445
- HIP 73937** Ref: 91.113  
Comments: period from Ref 91.113 confirmed.
- HIP 73960** Ref: 95.373 95.445 93.130
- HIP 73972** Ref: 94.206
- HIP 73982** Ref: 94.206
- HIP 73996** Ref: 95.193 95.379 95.427 95.698 94.064  
94.188 94.407 93.075
- HIP 74000** Ref: 95.684 94.206 76.039
- HIP 74003** Ref: 95.445 94.280
- HIP 74005** Comments: Possible period  $p = 8.627d$ .
- HIP 74006** Ref: 95.445 89.067
- HIP 74026** Ref: 95.017
- HIP 74045** Ref: 94.265
- HIP 74049** Ref: 89.125
- HIP 74061** Ref: 95.359 95.726 94.323 92.154 90.079  
89.097 89.131 87.055 87.105 85.124 80.040 78.026  
30.013
- HIP 74066** Ref: 95.684 94.396 92.044 85.037
- HIP 74067** Ref: 95.445
- HIP 74079** Ref: 95.193 95.211 94.056 94.095 94.188  
94.256 94.270 93.050
- HIP 74087** Ref: 85.090
- HIP 74109** Ref: 94.139
- HIP 74121** Ref: 95.445 93.057
- HIP 74145** Ref: 95.327 94.202 94.512 92.157 85.157
- HIP 74147** Ref: 95.693
- HIP 74179** Ref: 95.289 93.211 91.003 90.119 83.102  
30.012 22.006 7.001
- HIP 74181** Ref: 95.445
- HIP 74184** Ref: 95.445 95.684 95.693
- HIP 74209** Ref: 94.221
- HIP 74224** Ref: 95.445 89.067
- HIP 74234** Ref: 95.193 95.445 94.188 94.256
- HIP 74235** Ref: 95.193 95.445 94.188 94.256 94.407  
91.059
- HIP 74252** Comments: Possible period  $p = 7.787d$ .
- HIP 74272** Ref: 95.684
- HIP 74273** Ref: 95.445
- HIP 74286** Ref: 93.015
- HIP 74296** Ref: 95.684
- HIP 74321** Ref: 83.093 82.017
- HIP 74334** Ref: 94.202 91.053 84.043 78.040
- HIP 74350** Ref: 95.588 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 74368** Ref: 95.359 94.323 90.071 89.078 86.110  
85.192 83.060 83.069 82.033
- HIP 74370** Ref: 95.359 94.265 94.323 92.064 92.176  
90.071 90.127 89.083 86.110 83.060 82.033
- HIP 74386** Ref: 95.419 94.206 92.133
- HIP 74392** Ref: 95.684 94.311 93.088 7.001
- HIP 74421** Ref: 95.684
- HIP 74424** Comments: Possibly EA type.
- HIP 74432** Ref: 95.445
- HIP 74448** Ref: 71.018 64.008
- HIP 74449** Ref: 94.055
- HIP 74477** Ref: 95.445
- HIP 74491** Ref: 95.445 95.697 94.271 94.280
- HIP 74493** Ref: 95.684
- HIP 74500** Ref: 95.445
- HIP 74505** Ref: 95.684
- HIP 74509** Ref: 95.428 95.430 95.694 94.047 94.134  
94.269 94.419 93.118 92.081 92.111 89.060 83.066  
22.006
- HIP 74537** Ref: 95.445 94.206
- HIP 74556** Ref: 95.697 94.409 85.102 82.041 77.031
- HIP 74558** Ref: 94.196 22.006
- HIP 74582** Ref: 95.514 95.581 95.648 94.039 22.006  
7.001
- HIP 74584** Ref: 84.043
- HIP 74596** Ref: 95.684
- HIP 74604** Ref: 95.684
- HIP 74605** Ref: 95.432 93.050
- HIP 74625** Ref: 95.684
- HIP 74633** Comments: Possible period  $p = 25.0d$ .
- HIP 74634** Ref: 95.312 95.407 95.693 94.231
- HIP 74642** Comments: Possible period  $p = 26.67d$ .
- HIP 74654** Ref: 95.693
- HIP 74660** Ref: 95.693
- HIP 74666** Ref: 95.398
- HIP 74674** Ref: 95.062 95.644 94.407 93.015
- HIP 74680** Ref: 90.087
- HIP 74689** Ref: 95.684
- HIP 74696** Ref: 83.020
- HIP 74704** Ref: 30.013 22.006
- HIP 74707** Ref: 95.684
- HIP 74716** Ref: 95.267
- HIP 74717** Ref: 95.259 95.445 95.697 94.221
- HIP 74739** Ref: 95.697 94.137 94.409 86.032 82.035
- HIP 74778** Ref: 95.388 95.693
- HIP 74785** Ref: 95.388 94.311
- HIP 74793** Ref: 95.062
- HIP 74802** Ref: 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 74824** Ref: 95.684
- HIP 74826** Ref: 94.374
- HIP 74841** Ref: 95.445
- HIP 74875** Ref: 83.020
- HIP 74881** Ref: 95.412 95.669 91.097 89.037 82.034  
77.005 30.005 24.004 22.006 7.001
- HIP 74896** Ref: 93.057
- HIP 74901** Ref: 95.445 94.407
- HIP 74941** Ref: 95.388 95.693
- HIP 74946** Ref: 95.684
- HIP 74950** Ref: 95.157 95.276 95.313 93.031 93.033  
Comments: Period and type different from those  
given in GCVS4.
- HIP 74975** Ref: 95.268 95.644 95.671 94.407 93.064  
85.212
- HIP 74982** Comments: Possible period  $p = 2.5428d$ .
- HIP 75000** Ref: 95.684 93.003
- HIP 75003** Ref: 95.445
- HIP 75018** Ref: 95.580 93.190 92.110 89.154 86.002  
85.054 82.056 81.076 76.025 71.018 64.009 61.002  
58.001 40.003 7.001

- HIP 75021** Ref: 93.225  
Comments: Ref 93.225: 562 observations fail to confirm variability.
- HIP 75043** Ref: 95.684 76.039
- HIP 75049** Ref: 94.256
- HIP 75093** Ref: 95.684
- HIP 75095** Ref: 95.693
- HIP 75097** Ref: 95.125 95.227 95.347 95.563 95.595 95.610 95.641 95.684
- HIP 75101** Ref: 95.445
- HIP 75110** Ref: 95.445
- HIP 75118** Ref: 95.445 95.684 93.015
- HIP 75141** Ref: 94.311 81.022 75.016  
Comments: No confirmation of period from Ref 81.022. Possible period  $p = 0.0860d$ .
- HIP 75143** Ref: 95.464 95.491 95.530 95.588 89.031 88.020 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 75144** Ref: 95.692 91.002 88.020 86.048 81.016 77.027 22.006 7.001  
Comments: No coverage of minimum. Ephemeris based on AAVSO data.
- HIP 75163** Ref: 95.520 95.546
- HIP 75164** Ref: 95.445
- HIP 75170** Ref: 93.081 89.031 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 75178** Ref: 95.684 94.209
- HIP 75181** Ref: 95.386 95.445 94.095
- HIP 75206** Ref: 94.056 93.050
- HIP 75221** Ref: 95.445 95.697 94.095
- HIP 75224** Ref: 95.693
- HIP 75225** Ref: 94.236
- HIP 75230** Ref: 95.684
- HIP 75232** Comments: Period may be double.
- HIP 75233** Ref: 95.428 94.134 94.145 93.015 93.092 93.118 89.060 85.193 84.140 84.148
- HIP 75234** Ref: 94.236 94.282 94.286 82.054 76.025
- HIP 75256** Ref: 84.135 76.039
- HIP 75263** Ref: 95.445 94.280
- HIP 75266** Ref: 95.445
- HIP 75269** Comments: Period may be half.
- HIP 75304** Ref: 95.515
- HIP 75308** Ref: 95.445
- HIP 75312** Ref: 95.671 94.257 93.030
- HIP 75322** Ref: 85.147
- HIP 75323** Ref: 95.216
- HIP 75325** Ref: 95.171 95.268 95.428 95.702 94.175 94.216 94.419 93.030 93.064 93.073 93.092 93.118 89.060  
Comments: Reflection of spectroscopic period from Ref 95.702 in photometric data.
- HIP 75342** Ref: 95.445 95.684
- HIP 75356** Ref: 93.092
- HIP 75373** Ref: 95.140 95.410 94.191 94.306 94.307 93.161 90.024 86.001 86.078 85.237 83.023 74.003  
Comments: Confirmation of period from Ref 94.191.
- HIP 75377** Ref: 95.693 94.022
- HIP 75379** Ref: 95.432 93.015 93.050
- HIP 75393** Ref: 95.588 95.692 94.379 89.031 88.020 86.048 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 75394** Ref: 94.406
- HIP 75411** Ref: 95.684 94.407
- HIP 75430** Ref: 92.070 92.110 89.154 85.054 81.076 76.025
- HIP 75439** Ref: 95.320 95.321 95.684 91.053
- HIP 75458** Ref: 94.407
- HIP 75501** Ref: 95.684
- HIP 75530** Ref: 94.407
- HIP 75577** Ref: 94.120
- HIP 75587** Ref: 95.684 76.039
- HIP 75665** Ref: 89.067
- HIP 75678** Ref: 95.684
- HIP 75689** Ref: 93.073 93.118
- HIP 75694** Ref: 90.119
- HIP 75695** Ref: 95.094 95.320 95.321 95.327 95.684 94.139 94.182 94.202 94.206 91.053 85.046 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 75707** Ref: 22.006
- HIP 75711** Ref: 94.189
- HIP 75715** Comments: Possible alternative period  $p = 4.635d$ .
- HIP 75718** Ref: 94.216 92.139
- HIP 75727** Comments: Possible period  $p = 2.0619d$ .
- HIP 75736** Ref: 95.347 94.202
- HIP 75742** Ref: 95.445
- HIP 75761** Ref: 95.684
- HIP 75770** Ref: 95.684
- HIP 75781** Ref: 95.445
- HIP 75788** Ref: 95.684
- HIP 75818** Comments: Period may be half.
- HIP 75819** Ref: 95.445
- HIP 75829** Ref: 94.265
- HIP 75836** Comments: Period may be half.
- HIP 75847** Ref: 95.588 89.031 88.020 86.141 85.222 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 75848** Ref: 95.327 94.139 94.202 84.043 83.031 81.051
- HIP 75857** Ref: 94.248
- HIP 75863** Ref: 95.693
- HIP 75919** Ref: 95.684 94.209
- HIP 75939** Ref: 95.684
- HIP 75942** Ref: 95.378 95.379 94.236 94.409 93.111 93.116 93.128 92.214 66.008 35.001
- HIP 75961** Ref: 95.411 95.448 95.452  
Comments: Period may be half.
- HIP 75970** Ref: 94.280
- HIP 75971** Ref: 95.445 94.188 94.216 94.221
- HIP 75973** Ref: 95.062
- HIP 75974** Ref: 95.062
- HIP 75982** Ref: 95.378 95.379 95.697 94.123 94.236 94.282 94.286 94.409 93.111 92.214 91.090 91.120 90.135 90.154 88.039 85.216 84.084 83.110 82.054 77.031 77.036 66.008 60.001 59.001
- HIP 76008** Ref: 94.266 94.407
- HIP 76011** Ref: 95.014 95.320 95.321 94.182 93.119 91.053 91.126
- HIP 76013** Ref: 89.029
- HIP 76016** Comments: Possibly EA type.
- HIP 76033** Ref: 95.684
- HIP 76041** Ref: 95.143 95.684 94.206
- HIP 76059** Comments: A double star processed as a single. The measurements are perturbed by a star 0.5 mag brighter, 21 arcsec distant. Variability spurious. Other notes: G.
- HIP 76063** Ref: 95.445
- HIP 76069** Ref: 95.684
- HIP 76075** Comments: Possible period  $p = 7.491d$ .
- HIP 76086** Ref: 96.012 93.092 93.118 93.217 92.111 92.132 91.164 85.213 84.071 81.077
- HIP 76091** Comments: Possible period  $p = 29.0d$ .
- HIP 76103** Ref: 94.202
- HIP 76106** Ref: 95.684 83.020
- HIP 76127** Ref: 95.012 94.403 87.141 86.025 86.076 85.120 85.193 84.140 83.095
- HIP 76143** Ref: 95.684
- HIP 76152** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 76172** Ref: 95.378 95.697 94.236 94.409 93.111 93.128 77.031
- HIP 76196** Ref: 95.586 94.538 93.092 90.127 84.149 81.090 80.052 78.033 66.021 65.005 64.011 64.013 24.004 22.006
- HIP 76198** Ref: 95.684
- HIP 76207** Ref: 89.067  
Comments: Possible period  $p = 13.92d$ .
- HIP 76233** Ref: 95.445
- HIP 76243** Ref: 93.088  
Comments: Period may be double.

- HIP 76259** Ref: 95.558  
**HIP 76267** Ref: 95.563 95.684 93.239 91.096 86.054  
 Comments: No confirmation of period from Ref 91.096.  
**HIP 76276** Ref: 95.347 95.684 87.092 87.169 86.113 83.020  
 Comments: Possible period  $p = 0.1429d$ .  
**HIP 76291** Ref: 95.445 95.684  
**HIP 76296** Ref: 94.311  
**HIP 76297** Ref: 95.232 87.083 87.113  
**HIP 76307** Ref: 95.419  
**HIP 76313** Ref: 95.697 82.041 82.054 77.031  
**HIP 76343** Ref: 94.196 30.012 22.006  
 Comments: Probably wrongly identified with RU CrB.  
**HIP 76376** Ref: 95.684  
**HIP 76377** Ref: 95.692 94.379 93.081 88.020 77.027 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 76384** Ref: 95.684 95.732  
**HIP 76423** Ref: 95.332 94.051 92.162  
**HIP 76424** Ref: 95.445 95.684  
**HIP 76425** Ref: 95.062 95.567 94.036 94.148 93.029 93.211 91.102  
**HIP 76427** Ref: 95.445 94.289  
**HIP 76513** Comments: Possible period 1.8957d.  
**HIP 76534** Ref: 94.256  
**HIP 76551** Ref: 95.268 94.047 94.134 94.419 93.118 89.060 85.190 22.006  
**HIP 76552** Ref: 94.204  
**HIP 76563** Ref: 95.501 95.502  
**HIP 76568** Ref: 95.193 93.075  
**HIP 76573** Ref: 94.052  
**HIP 76602** Ref: 95.445  
**HIP 76603** Ref: 95.445  
**HIP 76605** Ref: 94.036 94.148  
**HIP 76618** Ref: 95.137  
**HIP 76629** Ref: 94.265 93.073 85.185 84.159  
**HIP 76639** Ref: 94.206  
**HIP 76646** Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable. Other notes: D.  
**HIP 76651** Ref: 95.062  
**HIP 76658** Ref: 85.124 80.036 22.006  
**HIP 76661** Ref: 95.693  
**HIP 76664** Ref: 95.445  
**HIP 76666** Ref: 95.684  
**HIP 76716** Ref: 95.445  
**HIP 76742** Ref: 93.057  
**HIP 76756** Ref: 95.693  
**HIP 76810** Ref: 95.445 93.211 91.102  
**HIP 76844** Ref: 94.196 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 76852** Ref: 95.684 94.206  
**HIP 76866** Ref: 95.327 95.684 94.202 91.053 84.043 71.003  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 76877** Ref: 95.684  
**HIP 76878** Ref: 95.684 93.003  
**HIP 76880** Ref: 95.558  
**HIP 76903** Ref: 95.445  
**HIP 76918** Ref: 95.482 94.203 94.414 92.070 81.076 76.025 64.009 61.002 58.001 40.003 36.001 28.003 22.006 7.001  
**HIP 76952** Ref: 95.125 95.347 95.684  
**HIP 76957** Ref: 95.684 92.044 84.043 76.039  
**HIP 76961** Ref: 95.445  
**HIP 76972** Ref: 94.256  
**HIP 76976** Ref: 95.087 95.122 95.193 95.205 95.211 95.235 95.383 95.433 95.445 95.461 95.541 95.664 95.691 95.697 94.043 94.050 94.095 94.188 94.270 94.346 94.371 94.389 94.407 91.059  
**HIP 76985** Ref: 94.206 93.211 91.102  
**HIP 76996** Ref: 95.684  
**HIP 77007** Ref: 95.445  
**HIP 77027** Ref: 94.379  
 Comments: Ephemeris based on AAVSO data.  
**HIP 77042** Ref: 95.445  
**HIP 77045** Comments: Possibly EA type.  
**HIP 77052** Ref: 95.445  
**HIP 77055** Ref: 95.125 95.684  
**HIP 77058** Ref: 95.588 95.692 93.081 88.020 86.048 81.016 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 77060** Ref: 95.445 95.684 83.020  
**HIP 77070** Ref: 95.062 95.390 95.433 95.644 94.407 93.015  
**HIP 77111** Ref: 95.684  
**HIP 77152** Ref: 95.373  
**HIP 77157** Ref: 94.122  
**HIP 77163** Ref: 96.007 95.684  
**HIP 77186** Ref: 95.062  
**HIP 77199** Ref: 94.265  
**HIP 77210** Ref: 95.445 94.053 94.138  
**HIP 77233** Ref: 95.563 95.684  
**HIP 77235** Ref: 95.684  
**HIP 77257** Ref: 95.124 95.277 95.379 95.399 95.432 95.510 95.658 95.671 95.698 94.007 93.050 93.064  
**HIP 77277** Ref: 95.684 76.039  
**HIP 77284** Ref: 94.196 30.012 22.006  
**HIP 77336** Ref: 95.684  
**HIP 77350** Ref: 95.445  
**HIP 77353** Ref: 94.206  
**HIP 77354** Ref: 94.407  
**HIP 77358** Ref: 95.445  
**HIP 77369** Comments: Possible period  $p = 4.346d$ .  
**HIP 77370** Ref: 95.684  
**HIP 77391** Ref: 95.693  
**HIP 77403** Ref: 95.693  
**HIP 77408** Ref: 95.445  
**HIP 77440** Ref: 76.039  
**HIP 77442** Ref: 95.142 95.289 95.424 95.514 95.529 95.784 94.120 94.235 94.502 94.548 92.184 91.003 91.202 90.113 88.082 88.117 87.089 86.079 86.108 86.142 85.098 84.059 84.096 84.171 82.020 75.006 30.012 22.006 7.001  
**HIP 77450** Ref: 95.419  
**HIP 77452** Ref: 95.693  
**HIP 77460** Ref: 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 77464** Ref: 95.684 83.020  
**HIP 77471** Ref: 92.076 30.013 22.006  
**HIP 77483** Ref: 95.445 95.697 93.130  
**HIP 77501** Ref: 95.361 95.509 95.514 95.581 94.418 88.020 86.141 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 77504** Ref: 95.389 95.392 94.175 94.216 93.118 90.059  
 Comments: No confirmation of period from Ref 95.389.  
**HIP 77512** Ref: 95.419 95.694 95.698 94.175 94.216 94.462  
**HIP 77516** Ref: 95.684 92.126  
**HIP 77529** Ref: 94.209  
**HIP 77542** Ref: 95.696 94.211  
**HIP 77574** Ref: 83.020  
**HIP 77578** Ref: 94.256 94.407  
**HIP 77615** Ref: 95.419 95.588 95.692 94.167 94.204 94.290 89.031 88.020 86.141 85.222 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 77619** Ref: 95.230 95.303 94.051 94.052 94.167 93.093 93.095 92.162 35.002 30.013 22.006 7.001  
 Comments: Possible period  $p = 259d$ .  
**HIP 77622** Ref: 95.684 94.349 83.020  
**HIP 77623** Ref: 93.118  
**HIP 77634** Ref: 95.178 95.323 95.566 95.600 95.684 94.028 94.325 93.048 93.062  
**HIP 77635** Ref: 95.512 95.571 95.704 94.314 94.330 94.423  
**HIP 77637** Ref: 94.188

- HIP 77655** Ref: 94.407  
**HIP 77660** Ref: 96.007 95.684 94.174  
**HIP 77661** Ref: 95.419  
**HIP 77662** Ref: 95.034 93.211 91.102  
**HIP 77663** Ref: 95.297 95.697 94.236 82.054 77.031  
**HIP 77691** Comments: Possible period  $p = 92.60d$ .  
**HIP 77716** Ref: 95.016 95.264 94.008 94.251  
**HIP 77739** Ref: 95.445  
**HIP 77760** Ref: 95.193 95.268 95.379 95.383 95.644  
 95.671 95.698 94.188 94.209 94.407 93.050 93.064  
**HIP 77764** Ref: 95.693  
**HIP 77785** Ref: 95.445  
**HIP 77798** Ref: 95.410 94.191 90.024 86.001  
 Comments: Confirmation of period from Ref 94.191.  
**HIP 77801** Ref: 95.445 94.256  
**HIP 77811** Ref: 95.515 94.330 93.126  
 Comments: According to Ref 93.126 possible period  
 $p = 0.536d$ .  
**HIP 77830** Ref: 95.297 95.378 95.697 94.236 94.282  
 94.286 94.409 93.111 93.128 91.090 82.054 77.031  
 66.008  
**HIP 77835** Ref: 95.385  
**HIP 77840** Ref: 94.330  
**HIP 77851** Comments: Possibly EA type.  
**HIP 77858** Ref: 94.330  
**HIP 77859** Ref: 94.330  
 Comments: Period may be double.  
**HIP 77861** Comments: Possible period  $p = 4.846d$ .  
**HIP 77900** Ref: 94.330  
**HIP 77907** Ref: 95.419 94.209 92.133  
**HIP 77909** Ref: 94.330 91.053 85.175 84.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 77910** Ref: 95.347 95.684 94.191  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 77911** Ref: 95.704 94.330 94.423  
**HIP 77913** Ref: 95.450 95.482 94.177 94.315 89.154  
 76.025 71.018 64.009 61.002 58.001  
**HIP 77927** Ref: 94.278  
**HIP 77939** Ref: 94.330  
**HIP 77946** Ref: 95.445 94.221  
**HIP 77984** Ref: 95.684  
**HIP 77986** Ref: 95.273 93.034 87.141 80.056 76.031  
 76.039  
**HIP 77990** Ref: 83.020  
**HIP 77994** Ref: 95.388 95.693  
**HIP 77997** Ref: 95.297 95.378 95.697 94.236 94.409  
 93.111 93.128 91.090 82.054 77.031 66.008  
**HIP 78012** Ref: 94.209  
**HIP 78014** Ref: 94.370  
**HIP 78034** Ref: 95.693  
**HIP 78053** Comments: A double star separated by 19  
 arcsec solved as a closer binary with 4.4 arcsec  
 separation. Variability spurious.  
**HIP 78058** Ref: 96.007 95.445  
**HIP 78059** Ref: 95.445 95.704 94.423 93.211 91.102  
**HIP 78072** Ref: 95.379 95.383 95.399 95.419 95.432  
 95.509 95.658 95.698 94.407 93.050  
**HIP 78078** Ref: 95.060 95.684 95.741 94.174 94.499  
**HIP 78092** Ref: 94.211  
**HIP 78094** Ref: 95.161 95.169 95.234 95.329 95.605  
 94.122 94.250 94.411 93.121 89.152 87.079 74.015  
 30.013  
**HIP 78104** Ref: 95.515 95.632  
**HIP 78117** Ref: 95.445  
**HIP 78129** Ref: 93.126  
**HIP 78132** Ref: 95.445 94.256 94.407 93.015  
**HIP 78142** Ref: 94.280 89.067  
**HIP 78145** Ref: 95.693  
**HIP 78159** Ref: 95.062 95.419 94.209 94.407  
**HIP 78168** Ref: 94.330 93.126 75.016  
**HIP 78180** Ref: 95.347 95.483 95.684 94.191 90.024  
 Comments: Possible period  $p = 0.0787d$ .  
**HIP 78183** Ref: 94.330  
**HIP 78196** Ref: 96.007  
**HIP 78207** Ref: 95.104 95.232 95.325 95.704 95.718  
 94.179 94.403 94.423 94.437 94.544 93.211 91.102  
 89.029 87.141 81.014  
 Comments: Some indication of eclipses.  
**HIP 78226** Ref: 94.209  
**HIP 78235** Ref: 95.230 94.196 22.006  
 Comments: Amplitude smaller than expected.  
**HIP 78241** Ref: 95.386  
**HIP 78246** Ref: 95.314 95.704 94.330 94.423 91.053  
 85.175 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 78259** Ref: 95.124 93.118  
**HIP 78265** Ref: 95.515 95.571 95.673 94.314 94.330  
 94.367 83.021  
**HIP 78286** Ref: 95.684  
**HIP 78288** Ref: 95.682  
**HIP 78289** Ref: 95.697  
**HIP 78310** Ref: 95.693  
**HIP 78317** Ref: 95.072 95.139 95.161 95.381 95.605  
 94.086 94.122 94.238 94.250 93.011 93.121 89.018  
 89.152 87.079 82.075  
**HIP 78322** Ref: 95.324 95.548 94.208 94.404 92.101  
 91.183 89.092 86.080 85.074 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 78378** Ref: 95.423 95.697 94.280  
**HIP 78400** Ref: 95.445 95.704 94.423 93.211 91.102  
**HIP 78401** Ref: 95.313 95.388 95.611 95.618 95.619  
 95.632 95.683 94.330 94.367 93.071  
**HIP 78408** Ref: 95.445  
**HIP 78417** Ref: 95.378 95.410 95.697 94.236 93.111  
 93.128 92.214 66.008 46.003  
**HIP 78435** Ref: 96.011  
**HIP 78436** Ref: 95.498 95.684  
**HIP 78445** Ref: 95.703  
**HIP 78459** Ref: 95.268 95.383 95.432 95.510 95.644  
 95.658 95.671 94.188 94.256 94.407 93.050 93.064  
**HIP 78469** Ref: 95.445  
**HIP 78476** Ref: 95.445 92.110 90.004 89.154 85.054  
 82.056 76.021 76.025 71.018 64.009 61.002 58.001  
 40.003 22.006 7.001  
**HIP 78491** Comments: Possible period  $p = 52.63d$ .  
**HIP 78493** Ref: 95.684 95.690 94.028 94.253 93.003  
 93.048 93.062 93.094 84.043  
**HIP 78512** Ref: 95.190 95.413 95.627 94.168 94.197  
 94.220 94.404 94.445 94.454 93.209 89.092 87.059  
 87.065 87.081 85.128 85.150  
 Comments: Amplitude smaller than expected.  
**HIP 78519** Ref: 95.389 95.392 94.265  
 Comments: Possible period  $p = 2.0258d$ .  
**HIP 78527** Ref: 95.124 95.193 95.379 94.188 93.050  
**HIP 78533** Ref: 95.320 95.321 91.053  
**HIP 78539** Ref: 95.410 72.017  
**HIP 78554** Ref: 95.684  
**HIP 78556** Ref: 95.445  
**HIP 78563** Comments: Possible period  $p = 95.94d$ .  
**HIP 78574** Ref: 95.230 94.051 94.196 30.013 22.006  
 7.001  
**HIP 78575** Ref: 95.558  
**HIP 78582** Ref: 94.189  
**HIP 78592** Ref: 95.194 95.684 94.028 94.209 94.253  
 93.048 93.062 76.039  
**HIP 78603** Ref: 95.704 93.211  
**HIP 78640** Ref: 95.193 94.270  
**HIP 78647** Ref: 94.174  
**HIP 78649** Ref: 95.684  
**HIP 78655** Ref: 95.314 95.704 94.423 93.211 91.102  
**HIP 78661** Ref: 95.684  
**HIP 78662** Ref: 94.265  
**HIP 78665** Ref: 95.445  
**HIP 78682** Ref: 95.693  
**HIP 78685** Ref: 95.445  
**HIP 78689** Ref: 95.111 95.704 94.022 94.423 93.211  
**HIP 78705** Comments: Possible period  $p = 3.216d$ .  
**HIP 78708** Ref: 94.265  
 Comments: Possibly EA type.

- HIP 78709** Ref: 95.268 95.283 95.386  
**HIP 78716** Ref: 94.174  
**HIP 78721** Ref: 88.124 22.006 7.001  
 Comments: Amplitude smaller than expected.  
 Ephemeris based on AAVSO data.
- HIP 78726** Ref: 95.445  
**HIP 78731** Ref: 85.042 84.043  
**HIP 78742** Ref: 95.432 94.406 93.050  
**HIP 78746** Ref: 95.692 91.002 88.020 86.048 74.036  
 22.006 7.001  
**HIP 78747** Ref: 95.445  
**HIP 78754** Ref: 95.581  
**HIP 78756** Ref: 95.642 95.703  
**HIP 78771** Ref: 94.177 92.070 76.025 64.009 58.001  
**HIP 78781** Comments: Possible period  $p = 3.904d$ .  
**HIP 78797** Ref: 94.203 90.004 89.154 76.025 71.018  
 64.009 61.002 58.001 30.003 22.006  
**HIP 78820** Ref: 95.463 95.515 95.571 95.619 95.642  
 95.673 95.683 94.314 94.330 94.367  
**HIP 78821** Ref: 94.367  
**HIP 78840** Ref: 95.684 83.020  
**HIP 78848** Ref: 94.189  
**HIP 78849** Ref: 93.015  
**HIP 78864** Ref: 95.193 94.175 94.216 93.118 90.059  
**HIP 78868** Ref: 89.067  
**HIP 78872** Ref: 95.588 95.692 89.031 88.020 77.027  
 74.036 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 78877** Ref: 94.330 94.396 85.175  
**HIP 78886** Ref: 95.445  
**HIP 78891** Ref: 95.410 95.713 94.236  
**HIP 78893** Ref: 95.684  
**HIP 78913** Ref: 94.407  
**HIP 78914** Ref: 95.703 83.020  
**HIP 78918** Ref: 95.703 94.311  
**HIP 78919** Comments: Possibly EA type.  
**HIP 78933** Ref: 95.619 95.632 95.673 94.055 94.330  
 94.367 94.403  
**HIP 78943** Ref: 95.426 94.211  
**HIP 78946** Ref: 76.039  
**HIP 78955** Ref: 95.059 95.432 95.445 94.056 93.050  
**HIP 78970** Ref: 95.445  
**HIP 78976** Ref: 88.020 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 78978** Ref: 95.450 95.452 93.149 92.110 83.107  
 81.116 71.018 64.009 62.004 61.002 58.001 57.003  
 40.003 22.006 7.001  
 Comments: Secondary period  $p = 1.825d$  (Ref  
 62.004).  
**HIP 78985** Ref: 93.092  
**HIP 78990** Ref: 95.385  
**HIP 78994** Ref: 95.445 30.013 22.006  
 Comments: Possible period  $p = 206d$ .  
**HIP 79005** Ref: 95.684  
**HIP 79007** Ref: 95.445 95.684  
**HIP 79031** Ref: 94.330  
**HIP 79042** Ref: 95.703  
**HIP 79043** Ref: 95.062 94.256  
**HIP 79044** Ref: 95.703  
**HIP 79045** Ref: 95.062 95.419 90.108  
**HIP 79069** Ref: 22.006  
**HIP 79072** Ref: 95.419 92.133  
**HIP 79076** Comments: Possible period  $p = 22.3d$ .  
**HIP 79079** Ref: 93.127 92.044 85.042 84.043  
**HIP 79080** Ref: 95.056 95.077 95.161 95.221 95.310  
 95.445 95.704 95.771 94.004 94.030 94.122 94.211  
 94.238 94.423 93.065 93.211 92.036 91.052 91.102  
 89.025 89.032 89.036 82.006 82.024 78.004 78.023  
 78.030  
**HIP 79081** Ref: 95.161 95.221 95.445 95.704 95.771  
 94.004 94.028 94.122 94.238 94.253 94.423 93.048  
 93.062 93.211 91.102  
**HIP 79086** Ref: 94.052  
**HIP 79098** Ref: 95.684 94.253 94.330
- HIP 79101** Ref: 95.684 94.028 94.202 94.209 94.253  
 93.003 93.048 93.062 93.094 91.053 84.043 83.033  
 78.038  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 79102** Ref: 95.684  
**HIP 79119** Ref: 95.419 94.407  
**HIP 79125** Ref: 95.684  
**HIP 79137** Ref: 95.433 95.445 94.407  
**HIP 79138** Ref: 95.445  
**HIP 79153** Ref: 96.007  
**HIP 79172** Ref: 95.388 95.693  
**HIP 79195** Ref: 95.558 93.092 85.029 85.090  
**HIP 79203** Ref: 95.445  
**HIP 79208** Ref: 95.704 93.211  
**HIP 79230** Ref: 95.703  
**HIP 79233** Ref: 95.319 95.581 95.588 95.692 94.290  
 93.192 89.031 88.020 86.141 85.222 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 79235** Ref: 84.043  
**HIP 79248** Ref: 95.386 95.644 94.256 94.407  
**HIP 79271** Ref: 95.697  
**HIP 79279** Ref: 95.693  
**HIP 79283** Comments: Possible period  $p = 400d$ .  
**HIP 79320** Ref: 95.445 95.703 95.704 94.423 93.211  
 91.102  
**HIP 79332** Ref: 95.684  
**HIP 79337** Ref: 95.684  
**HIP 79345** Ref: 93.092  
**HIP 79349** Ref: 95.419 94.204  
**HIP 79357** Ref: 95.419  
**HIP 79358** Ref: 93.092  
**HIP 79374** Ref: 95.619 94.330 94.367  
**HIP 79375** Ref: 95.684  
**HIP 79387** Ref: 95.684  
**HIP 79399** Ref: 94.330  
**HIP 79404** Ref: 94.330  
**HIP 79421** Ref: 89.067  
**HIP 79439** Ref: 83.038  
**HIP 79443** Ref: 95.445  
**HIP 79463** Ref: 95.445 95.684  
**HIP 79476** Ref: 95.426 94.120  
 Comments: No indication of eclipses.  
**HIP 79479** Comments: Possible period  $p = 34.52d$ .  
**HIP 79486** Ref: 95.445  
**HIP 79492** Ref: 94.257  
**HIP 79497** Ref: 95.445  
**HIP 79524** Ref: 95.386  
**HIP 79530** Ref: 94.330  
**HIP 79537** Ref: 95.386 95.445 94.389  
**HIP 79543** Comments: Possible period  $p = 4.825d$ .  
**HIP 79576** Ref: 95.445  
**HIP 79581** Ref: 95.062  
**HIP 79593** Ref: 95.419 94.204 94.266 92.133  
**HIP 79599** Ref: 95.445 95.684  
**HIP 79601** Ref: 95.684  
**HIP 79607** Ref: 95.006 95.054 95.124 95.224 95.226  
 95.268 95.347 95.430 95.586 95.702 94.040 94.047  
 94.140 94.216 94.257 94.265 94.419 93.064 93.118  
 92.103 92.111 88.002 86.140 85.122 85.167 85.193  
 85.218 84.140  
 Comments: Difficult to handle triple system with  
 orbital motion. Spectroscopic period not recognised in  
 photometry.  
**HIP 79622** Ref: 95.314 94.330 94.396  
**HIP 79625** Ref: 94.203 90.004 81.076 76.025 71.018  
 64.009 61.002 58.001  
**HIP 79653** Ref: 95.703 94.311  
**HIP 79661** Ref: 95.445  
**HIP 79664** Ref: 95.698  
**HIP 79672** Ref: 95.059 95.445 94.256  
**HIP 79674** Ref: 95.693  
**HIP 79689** Ref: 96.007  
**HIP 79692** Ref: 95.684  
**HIP 79747** Comments: Possible period  $p = 1.2223d$ .

- HIP 79754** Ref: 94.542  
Comments: Possible period  $p = 33.42d$ .
- HIP 79755** Ref: 94.407
- HIP 79757** Ref: 95.684
- HIP 79759** Comments: Possibly EA type.
- HIP 79781** Ref: 95.445 95.684
- HIP 79785** Ref: 95.684 94.330
- HIP 79796** Ref: 95.597 94.220 94.265 91.195 89.059
- HIP 79797** Ref: 95.445
- HIP 79804** Ref: 92.162
- HIP 79812** Ref: 95.445
- HIP 79822** Ref: 95.684 95.698
- HIP 79871** Ref: 95.445
- HIP 79881** Ref: 95.684
- HIP 79932** Ref: 95.445 94.176 94.177 94.228 94.414  
92.070 92.110 89.154 86.043 76.021 71.018 64.008  
64.009 61.002 58.001 40.003 36.001 22.006 7.001
- HIP 79938** Ref: 95.206 95.558
- HIP 79945** Ref: 95.558
- HIP 79946** Ref: 95.386
- HIP 79961** Ref: 94.414
- HIP 79963** Ref: 95.703
- HIP 79974** Ref: 95.697 94.409 93.111 93.128 82.041  
73.024 22.006
- HIP 79978** Ref: 95.388 95.693
- HIP 79980** Ref: 95.445
- HIP 79992** Ref: 94.028 94.209 93.048 93.062
- HIP 80008** Ref: 95.064 95.684
- HIP 80021** Ref: 93.015
- HIP 80024** Ref: 95.320 95.321 94.182 93.119 91.051  
91.053 84.042 84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 80027** Ref: 94.202
- HIP 80043** Ref: 95.445
- HIP 80047** Ref: 94.204
- HIP 80054** Ref: 89.067
- HIP 80060** Comments: Possibly E type.
- HIP 80079** Ref: 95.523 95.563 95.684 95.690 94.232  
94.423
- HIP 80102** Ref: 95.410
- HIP 80112** Ref: 95.009 95.118 95.571 94.019 94.205  
94.330 94.367 94.425 92.021 92.040 92.061 91.001  
88.014 85.016 85.019 84.005 84.031 82.016 81.022  
75.016 53.005
- HIP 80136** Ref: 95.693
- HIP 80142** Ref: 95.703
- HIP 80150** Ref: 93.093 93.095
- HIP 80161** Ref: 95.526
- HIP 80166** Ref: 93.092
- HIP 80170** Ref: 95.563 95.684
- HIP 80179** Ref: 95.684
- HIP 80181** Ref: 94.407
- HIP 80186** Ref: 95.703
- HIP 80196** Ref: 83.038  
Comments: Possible confirmation of variability  
suggested in Ref 83.038.
- HIP 80197** Ref: 95.419 92.133
- HIP 80212** Ref: 95.445 89.067
- HIP 80227** Ref: 94.187 93.104 82.031
- HIP 80247** Ref: 95.684
- HIP 80259** Ref: 95.230 94.196
- HIP 80290** Ref: 95.347 95.729 95.744 89.111
- HIP 80300** Ref: 94.265
- HIP 80302** Comments: Possible period  $p = 72.88d$ .
- HIP 80309** Ref: 95.062 94.206
- HIP 80323** Ref: 95.693 94.189
- HIP 80331** Ref: 95.062 93.015
- HIP 80337** Ref: 95.445 95.620 95.703 94.248 94.265
- HIP 80351** Ref: 95.684
- HIP 80365** Ref: 93.211 90.119 22.006  
Comments: Gradient over mission, star becomes 2.5  
mag brighter. Photometry perturbed by the brighter  
AB component. Possibly spurious oscillations on the  
RCB light-curve. Separation 21 arcsec.
- HIP 80371** Ref: 94.367 94.367
- HIP 80375** Ref: 95.684 90.063 83.033
- HIP 80387** Ref: 83.038  
Comments: No confirmation of variability suggested  
in Ref 83.038.
- HIP 80390** Ref: 95.703
- HIP 80401** Ref: 95.703
- HIP 80402** Ref: 95.297 95.371 95.378 95.379 95.697  
94.123 94.236 94.409 90.135 82.054 77.031 66.008
- HIP 80405** Ref: 95.276 95.313 95.703 93.033 91.096  
85.009 85.038
- HIP 80408** Ref: 95.693
- HIP 80421** Ref: 95.703
- HIP 80432** Comments: Possible period  $p = 71.6d$ .
- HIP 80435** Ref: 95.389 95.392  
Comments: No confirmation of period from Ref  
95.389.
- HIP 80448** Ref: 94.111 94.265
- HIP 80460** Ref: 95.684
- HIP 80462** Ref: 95.118 95.579 95.619 95.670 94.367  
94.367 94.367
- HIP 80463** Ref: 95.327 95.684 94.202 91.053 87.045  
84.043  
Comments: Period from Ref 84.043 confirmed.
- HIP 80468** Comments: Optical double separated by 23  
arcsec in 1982. Microvariability possibly spurious.  
Other notes: G.
- HIP 80473** Ref: 95.118 95.170 95.182 95.189 95.618  
95.619 95.636 95.663 95.675 95.683 94.330 94.357  
94.367 94.367 94.401 94.405
- HIP 80480** Ref: 95.684
- HIP 80488** Ref: 95.387 95.491 95.518 95.588 95.692  
94.167 94.204 94.266 94.290 94.342 94.413 93.081  
93.192 89.031 88.020 86.141 85.024 85.220 85.222  
83.091 70.009 30.013 24.004 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 80503** Comments: Possible period  $p = 322d$ .
- HIP 80548** Comments: Possible period  $p = 29.3d$ .
- HIP 80550** Ref: 95.509 94.418 88.020 70.009 22.006  
7.001
- HIP 80557** Ref: 95.703  
Comments: Period may be half.
- HIP 80563** Ref: 94.019 94.205 91.102 85.004
- HIP 80569** Ref: 95.104 95.325 95.612 95.683 94.314  
94.330 94.367 94.403 94.544 89.029 87.141  
Comments: One drop in brightness half-way the  
mission, 0.15 mag.
- HIP 80582** Ref: 95.137 95.703
- HIP 80587** Ref: 95.087 95.122 94.043 94.056 94.256  
93.050
- HIP 80607** Ref: 93.119
- HIP 80620** Ref: 92.133  
Comments: Possible period  $p = 1.283d$ .
- HIP 80628** Ref: 95.684 94.253 83.020
- HIP 80645** Ref: 95.445 93.015
- HIP 80650** Ref: 95.684
- HIP 80672** Ref: 95.445 89.067
- HIP 80673** Ref: 83.038
- HIP 80693** Ref: 95.390 95.419 95.433 94.188 94.407  
90.108
- HIP 80704** Ref: 95.181 95.419 95.783 94.051 94.067  
94.204 94.266 94.290 94.381 94.407 94.542 35.002  
30.012 22.006 7.001
- HIP 80708** Comments: Triple star reduced as single.  
Separation 18 arcsec. Variability spurious.
- HIP 80721** Ref: 95.703  
Comments: One burst observed at start of mission.
- HIP 80755** Ref: 95.693
- HIP 80763** Ref: 95.066 95.419 95.643 94.067 94.273  
92.162
- HIP 80782** Ref: 95.693 95.703 84.072  
Comments: Around JD 2 448 090 fluctuation of  
length 4.2d observed.
- HIP 80788** Ref: 95.445
- HIP 80791** Comments: Possible period  $p = 15.23d$ .
- HIP 80793** Ref: 95.445

- HIP 80802** Ref: 95.230 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 80809** Ref: 95.684
- HIP 80815** Ref: 95.704 94.055 94.330 94.367 94.403  
94.423 93.211 91.102
- HIP 80816** Ref: 95.062 95.419 94.042 94.266 94.289  
93.015 93.092
- HIP 80822** Ref: 95.433 95.445
- HIP 80829** Ref: 95.693 95.703 94.189
- HIP 80837** Ref: 95.383 95.445 94.056 94.188 94.407  
93.050
- HIP 80840** Ref: 95.338 95.445 95.523 95.563 95.684  
95.690
- HIP 80843** Ref: 94.280
- HIP 80853** Ref: 95.378 95.379 95.697 94.236 94.282  
94.286 94.409 93.111 93.128 82.054 77.031 66.008
- HIP 80883** Ref: 95.684 94.311
- HIP 80887** Ref: 95.693
- HIP 80902** Ref: 95.386
- HIP 80903** Ref: 95.140 94.191 94.547 93.161 93.259  
90.024 86.001 83.023 69.011 66.015  
Comments: Confirmation of period from Ref 94.191.
- HIP 80911** Ref: 95.632 95.703
- HIP 80926** Ref: 94.406
- HIP 80931** Comments: Appears proper identification  
when folded with literature period, but 1 mag fainter  
than expected. Data are badly affected by images in  
the other field of view.
- HIP 80945** Ref: 95.693 95.703 94.055
- HIP 80965** Comments: Possible period  $p = 7.634d$ .
- HIP 80975** Ref: 95.327 95.684 94.202 94.349 85.042  
85.045 84.043 78.011
- HIP 80990** Ref: 95.378 95.697 94.236 77.031
- HIP 80991** Ref: 95.684
- HIP 81007** Ref: 94.028 93.048 93.062
- HIP 81008** Ref: 95.419 95.433 94.407
- HIP 81014** Ref: 93.081 88.020 86.141 85.222 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 81026** Ref: 88.020 81.016 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 81041** Ref: 95.445
- HIP 81078** Ref: 95.445
- HIP 81100** Ref: 95.388 95.495 95.693 95.703 89.034
- HIP 81122** Ref: 95.047 95.388 95.693 94.357 94.367
- HIP 81126** Ref: 95.684
- HIP 81144** Ref: 95.693
- HIP 81145** Ref: 94.328
- HIP 81149** Ref: 95.693
- HIP 81153** Ref: 95.388
- HIP 81157** Ref: 86.032 85.054 84.041 83.016 82.035  
64.009 61.002 22.006
- HIP 81170** Ref: 95.193 95.445 94.053 94.138 94.188  
94.256 93.118
- HIP 81172** Ref: 95.693
- HIP 81180** Ref: 95.703
- HIP 81188** Ref: 94.196 30.012 22.006
- HIP 81200** Ref: 95.703
- HIP 81208** Ref: 95.703
- HIP 81214** Ref: 95.703
- HIP 81231** Ref: 95.684
- HIP 81238** Ref: 95.378 95.697 94.236 94.409 93.111  
93.128 66.008 35.001 30.013 22.006
- HIP 81256** Ref: 95.693
- HIP 81266** Ref: 95.024 95.096 95.153 95.155 95.241  
95.515 95.632 94.055 94.309 94.314 94.330 94.390  
93.082
- HIP 81267** Ref: 95.373
- HIP 81272** Ref: 94.120 94.235 93.002 93.054 92.045  
89.134 88.119 87.163 30.013 22.006
- HIP 81289** Ref: 95.385
- HIP 81290** Ref: 95.684 94.265
- HIP 81292** Ref: 95.684
- HIP 81300** Ref: 95.124 95.277 95.445 95.475 95.671  
94.007 94.256 94.266 94.407
- HIP 81305** Ref: 95.693 95.703
- HIP 81309** Ref: 94.167 91.002 35.003 22.006
- HIP 81316** Ref: 95.703
- HIP 81337** Ref: 95.684 91.053 84.043 80.015
- HIP 81349** Ref: 93.030
- HIP 81362** Ref: 95.493 95.533 95.571 95.573 95.629  
85.074 76.003 76.039 75.016  
Comments: According to Ref 85.074 period  
 $p = 5.20065d$ .
- HIP 81377** Ref: 95.026 95.046 95.047 95.058 95.089  
95.098 95.170 95.182 95.194 95.267 95.313 95.318  
95.388 95.462 95.463 95.488 95.512 95.515 95.547  
95.569 95.571 95.578 95.590 95.611 95.612 95.613  
95.618 95.619 95.635 95.636 95.645 95.672 95.673  
95.683 94.260 94.314 94.357 94.367 94.394 94.399  
93.076 93.163 93.185 93.186 91.128 89.029  
Comments: Ref 93.186 and Ref 93.185:  
Multi-period object, small variations.
- HIP 81407** Ref: 95.445
- HIP 81425** Ref: 95.427 95.445
- HIP 81428** Ref: 93.057
- HIP 81440** Ref: 95.684 84.043
- HIP 81470** Ref: 94.206
- HIP 81472** Ref: 95.703 91.102
- HIP 81477** Ref: 95.703
- HIP 81478** Ref: 95.101 95.602  
Comments: Period possibly spurious.
- HIP 81497** Ref: 95.419 94.542 92.133
- HIP 81506** Comments: Ephemeris based on AAVSO data.
- HIP 81508** Ref: 95.703 86.009
- HIP 81519** Ref: 95.268 95.430 94.040 94.047 94.125  
94.134 94.419 93.064 93.118 92.111 80.043 40.002  
Comments: Photometry probably disturbed by  
component at 8 arcsec.
- HIP 81523** Ref: 95.703
- HIP 81557** Ref: 95.693
- HIP 81580** Ref: 95.432 94.056 94.188 93.050
- HIP 81589** Ref: 91.074 90.111 88.052 86.093 85.077  
83.087 42.002 22.006 7.001  
Comments: Secondary variations apart from eclipses.  
Other notes: D.
- HIP 81590** Ref: 95.601
- HIP 81624** Ref: 95.149 95.169 95.342 95.670 94.030  
94.211
- HIP 81634** Ref: 95.445 95.684
- HIP 81639** Ref: 95.703
- HIP 81641** Ref: 95.445 95.684
- HIP 81645** Ref: 95.703  
Comments: Long time-scale variations ( $> 1000d$ ).
- HIP 81646** Ref: 92.162
- HIP 81651** Ref: 95.693
- HIP 81659** Ref: 95.684 76.039
- HIP 81687** Ref: 95.684 93.015
- HIP 81693** Ref: 95.159 95.370 95.399 93.015
- HIP 81696** Ref: 95.693
- HIP 81700** Comments: Brighter than in Hipparcos Input  
Catalogue by 1 mag.
- HIP 81702** Ref: 95.388 95.693  
Comments: Possibly E type, but insufficient data.
- HIP 81703** Ref: 95.359 95.438 94.158 94.323 88.078  
84.149 82.028 69.005 68.007 65.005 58.002
- HIP 81710** Ref: 89.029
- HIP 81715** Comments: Possibly spurious periodicity at  
 $p = 0.55822d$  and  $p = 0.91811d$ .
- HIP 81728** Ref: 95.445 95.684 83.020
- HIP 81733** Ref: 95.494 95.703
- HIP 81734** Ref: 95.445
- HIP 81736** Ref: 95.388 95.693
- HIP 81743** Comments: Possible period  $p = 2.4419d$ .
- HIP 81747** Ref: 22.006
- HIP 81753** Comments: Possible period  $p = 30.43d$ .
- HIP 81754** Ref: 94.056 93.050
- HIP 81798** Ref: 95.693
- HIP 81800** Ref: 94.406 93.075



- HIP 81815** Comments: 1 mag fainter than in Hipparcos Input Catalogue. Variability on time scale of 500d.
- HIP 81832** Ref: 95.703
- HIP 81833** Ref: 95.419 95.698 94.289 93.015
- HIP 81835** Ref: 95.332 30.013 22.006 7.001  
Comments: Long-term variations, no periodicity detected.
- HIP 81840** Ref: 95.684 94.202 91.053 84.043
- HIP 81847** Ref: 95.445
- HIP 81891** Ref: 95.703
- HIP 81901** Ref: 94.206
- HIP 81904** Ref: 95.703 95.704 94.423 93.211
- HIP 81911** Ref: 95.684
- HIP 81914** Ref: 91.102
- HIP 81939** Ref: 95.684
- HIP 81966** Ref: 95.445 89.067
- HIP 81970** Ref: 93.093 93.095
- HIP 81972** Ref: 95.703 91.102
- HIP 81992** Ref: 95.684
- HIP 82003** Ref: 94.410
- HIP 82023** Ref: 94.203
- HIP 82028** Ref: 94.407
- HIP 82038** Ref: 93.093 93.095
- HIP 82073** Ref: 94.188
- HIP 82080** Ref: 95.268 95.430 95.702 94.047 94.134 94.289 94.419 93.092 93.118 89.060  
Comments: A spectroscopic binary and long-period RS CVn star (Ref 95.702).
- HIP 82089** Comments: Possible period  $p = 3.6156$ d.
- HIP 82091** Ref: 95.703
- HIP 82121** Ref: 95.388 95.693 95.703
- HIP 82123** Comments: Possible EA star, but insufficient data.
- HIP 82129** Ref: 85.042 84.043
- HIP 82135** Ref: 89.067
- HIP 82148** Ref: 95.693
- HIP 82162** Ref: 95.684
- HIP 82171** Ref: 95.494
- HIP 82172** Ref: 95.419  
Comments: Some indications of colour error.
- HIP 82199** Ref: 95.693 95.703
- HIP 82203** Ref: 95.601
- HIP 82216** Ref: 95.684 92.044 84.043  
Comments: Possible period  $p = 2.0582$ d.
- HIP 82241** Ref: 94.256 93.015
- HIP 82249** Ref: 95.230 95.332  
Comments: Variations on a time scale of  $p = 175$ d. Ephemeris based on AAVSO data.
- HIP 82254** Ref: 95.703
- HIP 82257** Ref: 95.552
- HIP 82259** Ref: 95.684
- HIP 82273** Ref: 95.226 95.468 95.622 95.698 94.338
- HIP 82286** Ref: 95.388 95.693 95.703 94.189
- HIP 82315** Ref: 94.280
- HIP 82321** Ref: 95.004 95.327 95.684 94.139 94.396 84.043
- HIP 82323** Ref: 95.605 94.250 91.127  
Comments: Flare-like variations.
- HIP 82335** Ref: 95.703
- HIP 82339** Ref: 95.684 85.066 85.109 81.063
- HIP 82350** Ref: 95.684 76.039
- HIP 82352** Ref: 30.012 22.006
- HIP 82366** Ref: 95.388 95.515 95.693 95.703
- HIP 82369** Ref: 95.432 93.015 93.050
- HIP 82378** Ref: 95.693 95.703
- HIP 82390** Comments: Probably eclipsing, but period not found.
- HIP 82392** Ref: 30.013 22.006 7.001
- HIP 82396** Ref: 93.015
- HIP 82402** Ref: 95.684 83.020
- HIP 82405** Ref: 95.445
- HIP 82422** Ref: 95.419
- HIP 82428** Ref: 95.684
- HIP 82430** Ref: 95.704 94.423 93.211 91.102
- HIP 82453** Ref: 95.703 95.704 94.423 93.211 91.102
- HIP 82493** Ref: 95.153 95.388 95.703 94.367 94.370 92.104 89.034
- HIP 82498** Ref: 92.070 79.011 71.018 64.009 61.002 58.001
- HIP 82514** Ref: 87.162 83.021 83.076 77.005 39.003
- HIP 82516** Ref: 95.588 93.081 93.093 93.095 89.031 88.020 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 82526** Ref: 95.684 84.043 76.039
- HIP 82531** Comments: Period completely different from Hipparcos Input Catalogue, but well determined.
- HIP 82539** Ref: 95.445
- HIP 82543** Ref: 95.111 95.311 95.312 95.570 95.693 95.704 94.015 94.022 94.423 93.211 87.009 87.128
- HIP 82545** Ref: 95.632
- HIP 82554** Ref: 91.051 84.043  
Comments: Confirmation of period in Ref 91.051.
- HIP 82556** Ref: 86.130
- HIP 82560** Ref: 95.703
- HIP 82583** Ref: 94.175 94.216 93.118 90.059  
Comments: Alternative periods  $p = 22.35$ d (Ref 90.059) or  $p = 3.5492$ d.
- HIP 82587** Ref: 95.684
- HIP 82588** Ref: 95.064 95.124 95.277 95.386 95.445 95.671 94.007 86.081
- HIP 82594** Ref: 95.703
- HIP 82617** Ref: 95.703
- HIP 82621** Ref: 95.445
- HIP 82629** Ref: 95.445
- HIP 82636** Ref: 95.383 94.256 94.407
- HIP 82647** Ref: 95.693 94.189
- HIP 82669** Ref: 95.047 95.693 94.367  
Comments: Some indication of period  $p = 3.323$ d and ELL type, but  $p = 1.6617$ d and ACV also possible.
- HIP 82671** Ref: 95.115 95.703 95.704 94.367 94.423 93.211 91.102 82.022
- HIP 82672** Ref: 95.445  
Comments: Possible SARV, periods  $p = 9.842$ d or  $p = 4.299$ d possible.
- HIP 82676** Ref: 94.367
- HIP 82680** Ref: 95.688
- HIP 82685** Ref: 95.388 95.632 95.693
- HIP 82691** Ref: 95.022 94.367 94.423 92.151
- HIP 82693** Ref: 95.445 95.684
- HIP 82695** Ref: 22.006
- HIP 82706** Ref: 95.693 94.022 94.367 74.022
- HIP 82710** Ref: 94.444 83.013 82.029 68.003 62.005 22.006
- HIP 82716** Ref: 95.445 89.067
- HIP 82737** Ref: 95.445 95.684
- HIP 82747** Ref: 95.161 95.605 95.704 94.122 94.211 94.250 94.423 93.211 91.102 22.006
- HIP 82764** Ref: 95.419
- HIP 82767** Ref: 95.388 95.693 95.703
- HIP 82775** Ref: 95.153 95.302 95.312 95.388 95.503 95.693 95.703 94.361 94.367
- HIP 82779** Ref: 95.347
- HIP 82783** Ref: 95.047 95.693 95.703 95.704 94.367 94.423 93.211
- HIP 82786** Ref: 95.703
- HIP 82798** Ref: 95.347 95.483 94.191 90.024 83.020  
Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 82809** Ref: 94.206
- HIP 82817** Ref: 95.025 95.120 95.121 94.206 94.265 93.018 91.129 91.136 89.015
- HIP 82819** Ref: 95.693
- HIP 82829** Ref: 95.703
- HIP 82833** Ref: 95.588 95.692 88.020 81.016 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 82860** Ref: 95.383 95.386 95.432 95.658 94.265 94.407 93.050
- HIP 82861** Ref: 95.445
- HIP 82864** Ref: 76.039

- HIP 82868** Ref: 95.035 95.703  
Comments: Possibly GCAS star, variations on short (day) time scale observed.
- HIP 82874** Ref: 95.703
- HIP 82876** Ref: 95.388 95.693
- HIP 82880** Ref: 95.684
- HIP 82884** Ref: 84.149 80.050
- HIP 82898** Ref: 95.684  
Comments: Possibly EA star, but insufficient data.
- HIP 82911** Ref: 95.693 91.006 84.008 84.203 82.004 81.035 79.006 78.001
- HIP 82912** Ref: 95.588 95.692 94.379 93.081 88.020 77.027 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 82925** Ref: 95.684
- HIP 82936** Ref: 95.388 95.693  
Comments: The double-star analysis indicates that it is the fainter (C) component which is variable. Other notes: D,G.
- HIP 82959** Ref: 93.244
- HIP 82960** Ref: 89.067
- HIP 82977** Ref: 81.092 22.006  
Comments: No coverage of minima.
- HIP 82979** Ref: 95.445
- HIP 82989** Ref: 95.445
- HIP 83000** Ref: 95.062 95.419 95.433 95.644 95.661 94.407
- HIP 83003** Comments: Period  $p = 11.95$ d not recognised. Possible but uncertain SR period  $p = 10.92$ d.
- HIP 83006** Ref: 94.175 94.216
- HIP 83009** Ref: 95.445
- HIP 83013** Ref: 85.090
- HIP 83014** Comments: Possible period  $p = 1.3797$ d.
- HIP 83039** Ref: 95.693
- HIP 83045** Ref: 95.558
- HIP 83057** Ref: 95.703
- HIP 83059** Ref: 93.190 92.110 89.154 88.108 85.054 85.084 84.087 82.056 76.025 71.018 64.009 61.002 58.001 40.003 22.006 7.001
- HIP 83081** Ref: 95.558 93.057
- HIP 83090** Ref: 95.445 93.015
- HIP 83100** Ref: 95.704 94.423 93.211 91.102
- HIP 83102** Comments: Possible period  $p = 3.162$ d.
- HIP 83105** Comments: Possible period  $p = 4.568$ d. Type uncertain.
- HIP 83112** Ref: 95.703
- HIP 83116** Ref: 95.703
- HIP 83117** Comments: No periodicity detected. Some indication of colour error.
- HIP 83119** Ref: 95.703
- HIP 83153** Ref: 95.704 94.423 93.211 91.102
- HIP 83187** Ref: 95.445
- HIP 83196** Ref: 95.445
- HIP 83202** Ref: 96.007
- HIP 83207** Ref: 95.684
- HIP 83223** Ref: 95.445 95.684
- HIP 83235** Ref: 89.067
- HIP 83244** Ref: 95.297 94.236 82.054 77.031 40.003
- HIP 83262** Ref: 95.558
- HIP 83266** Ref: 95.703
- HIP 83276** Ref: 95.386
- HIP 83281** Ref: 95.693
- HIP 83285** Ref: 86.130
- HIP 83289** Ref: 95.062
- HIP 83304** Ref: 86.141 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 83308** Ref: 95.320 95.321 95.327 95.684 94.139 94.182 94.202 91.053 84.043 78.038 76.039 71.003  
Comments: Alternative possible periods  $p = 6.0075$ d (Ref 78.038) or  $p = 16.5947$ d.
- HIP 83313** Ref: 95.684
- HIP 83317** Ref: 95.684  
Comments: Possible period  $p = 0.3451$ d.
- HIP 83322** Comments: Possible period  $p = 3.456$ d.
- HIP 83336** Ref: 95.703
- HIP 83340** Ref: 95.703
- HIP 83342** Ref: 95.684
- HIP 83359** Ref: 94.266
- HIP 83366** Comments: Possible period  $p = 3.155$ d.
- HIP 83387** Ref: 30.013 22.006 7.001
- HIP 83389** Ref: 95.386
- HIP 83406** Ref: 95.703
- HIP 83410** Ref: 95.347 94.191 90.024 83.020  
Comments: Possible alternative period  $p = 0.0868$ d.
- HIP 83430** Ref: 95.419 94.204
- HIP 83431** Ref: 95.445
- HIP 83435** Ref: 95.445
- HIP 83448** Ref: 95.693 95.703 94.189
- HIP 83453** Ref: 95.693
- HIP 83462** Ref: 92.133
- HIP 83468** Ref: 95.693
- HIP 83478** Ref: 95.684 76.039
- HIP 83481** Ref: 95.703
- HIP 83491** Comments: No minima observed.
- HIP 83494** Ref: 95.684
- HIP 83495** Ref: 94.256
- HIP 83499** Ref: 95.439 95.693 93.012 92.016 92.106 90.054 85.070 84.008 82.004 82.005 81.021 81.025 77.010 77.017 77.022 77.024 74.014
- HIP 83565** Ref: 95.684
- HIP 83570** Ref: 95.703
- HIP 83574** Ref: 95.703 94.367
- HIP 83575** Ref: 95.062
- HIP 83582** Ref: 95.723 30.013  
Comments: Ephemeris based on AAVSO data.
- HIP 83591** Ref: 95.445 94.188 94.410
- HIP 83593** Ref: 95.684
- HIP 83594** Ref: 96.007 95.445 95.703
- HIP 83601** Ref: 95.074 95.075 95.124 95.268 95.277 95.445 95.671 94.007 86.081
- HIP 83603** Ref: 95.693
- HIP 83608** Ref: 95.698 94.257 93.030
- HIP 83613** Ref: 95.684
- HIP 83632** Comments: Possible period  $p = 481$ d.
- HIP 83633** Ref: 95.688
- HIP 83635** Ref: 95.022 95.515 94.232 94.357 94.367
- HIP 83638** Comments: Possible period  $p = 2.2346$ d.
- HIP 83650** Ref: 96.007 95.703 94.174
- HIP 83674** Ref: 92.070 92.110 89.154 86.002 85.054 85.084 84.087 82.056 76.021 76.025 71.018 64.009 61.002 58.001 40.003 30.001 27.001
- HIP 83677** Ref: 83.020
- HIP 83684** Ref: 95.445 95.684
- HIP 83688** Ref: 95.445
- HIP 83692** Ref: 94.266
- HIP 83693** Ref: 95.703
- HIP 83704** Ref: 95.703
- HIP 83706** Ref: 95.635 95.693 95.703 94.059 94.367  
Comments: Possible alternative period  $p = 27.53$ d, but both could be spurious.
- HIP 83714** Comments: Possible period  $p = 31.41$ d.
- HIP 83719** Ref: 91.096 78.036
- HIP 83721** Ref: 95.693 95.703
- HIP 83733** Ref: 95.693 95.703
- HIP 83738** Ref: 95.684
- HIP 83740** Ref: 95.684
- HIP 83802** Ref: 95.703  
Comments: Alternatively half the period.
- HIP 83816** Ref: 95.684
- HIP 83830** Comments: Possible flare star.
- HIP 83838** Ref: 95.684 94.206
- HIP 83845** Ref: 95.703
- HIP 83853** Ref: 95.684
- HIP 83857** Ref: 95.684
- HIP 83858** Ref: 95.693
- HIP 83861** Ref: 95.703
- HIP 83866** Ref: 95.303 22.006  
Comments: Variations on time scale of  $p = 200 - 300$ d observed.
- HIP 83873** Ref: 95.701

- HIP 83891** Comments: Possibly EA type, but insufficient data.
- HIP 83895** Ref: 94.028 93.048 93.062  
Comments: Possibly EA type, but insufficient data.
- HIP 83896** Ref: 94.174 83.020
- HIP 83906** Ref: 95.445
- HIP 83916** Ref: 95.051
- HIP 83920** Ref: 95.701
- HIP 83921** Ref: 94.461  
Comments: May be multi-periodic. Period  $p = 0.130448d$  also possible.
- HIP 83937** Ref: 95.703
- HIP 83943** Ref: 95.703
- HIP 83947** Ref: 93.092
- HIP 83949** Ref: 93.050
- HIP 83959** Ref: 95.703
- HIP 83973** Ref: 95.693 95.703 94.059
- HIP 83990** Ref: 95.386
- HIP 83998** Ref: 95.701
- HIP 84004** Comments: Possible period  $p = 12.33d$ .
- HIP 84010** Ref: 95.693 95.703 94.189
- HIP 84012** Ref: 95.684
- HIP 84014** Ref: 95.268 95.430 95.702 94.040 94.047 94.419 93.064 93.092 93.118 91.073 89.060 83.084  
Comments: Period given in Ref 93.118 confirmed. Photometric period derived from spectroscopic period (Ref 95.702).
- HIP 84016** Comments: Possible period  $p = 30.700d$ .
- HIP 84027** Ref: 94.196
- HIP 84036** Ref: 95.684
- HIP 84054** Ref: 95.347 95.684 94.062 94.191 91.020 91.037 90.024 88.027  
Comments: Period in Ref 94.191 confirmed, but a lot of scatter.
- HIP 84070** Ref: 95.299 91.020
- HIP 84071** Ref: 22.006  
Comments: Long-term variations, time scale  $p = 300 - 400d$  observed.
- HIP 84073** Ref: 95.703
- HIP 84078** Ref: 95.701
- HIP 84092** Ref: 95.701
- HIP 84105** Ref: 89.067
- HIP 84108** Ref: 95.684
- HIP 84114** Comments: Gradient over the mission, and AC-DC discrepancy. Could indicate colour error. Possible SR with period  $p = 3.031d$ .
- HIP 84140** Ref: 95.120 94.410
- HIP 84143** Ref: 95.684 95.703 94.331
- HIP 84147** Ref: 95.445 95.684
- HIP 84149** Ref: 95.701
- HIP 84150** Ref: 95.684 95.703
- HIP 84162** Ref: 95.703
- HIP 84164** Ref: 95.445
- HIP 84172** Ref: 95.701
- HIP 84183** Ref: 95.684
- HIP 84198** Ref: 95.701
- HIP 84213** Ref: 94.196 30.012 22.006  
Comments: Irregular variations on time scale of 50–100d.
- HIP 84217** Ref: 95.445
- HIP 84226** Ref: 95.154 95.693 95.703
- HIP 84227** Ref: 95.701
- HIP 84233** Ref: 95.378 95.697 94.236 94.409 93.111 93.128 66.008
- HIP 84238** Ref: 95.693 95.703
- HIP 84257** Ref: 95.445
- HIP 84266** Ref: 95.373 95.419 94.374
- HIP 84267** Ref: 95.703
- HIP 84282** Ref: 95.703 92.076
- HIP 84291** Ref: 94.175 94.216 93.092 93.118 90.059
- HIP 84293** Ref: 91.143 89.097 87.105 85.195 84.149 72.017 65.005 64.011 58.002
- HIP 84301** Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable. Other notes: D.
- HIP 84311** Ref: 95.704 94.423 91.102 85.136 85.189
- HIP 84326** Ref: 95.701
- HIP 84329** Ref: 94.196 22.006
- HIP 84332** Ref: 95.111 95.420 95.693 94.408  
Comments: Long term ( $> 600d$ ) variations observed.
- HIP 84345** Ref: 95.181 95.207 95.419 95.643 94.067 94.273 93.069 30.013 22.006 7.001
- HIP 84346** Ref: 95.230  
Comments: Period  $p = 154d$ , spectral type M7 (Ref 95.230).
- HIP 84379** Ref: 95.012 95.684
- HIP 84380** Ref: 95.419
- HIP 84401** Ref: 95.388 95.703 94.370  
Comments: Long-term variations ( $> 1000d$ ).
- HIP 84402** Ref: 89.067
- HIP 84405** Ref: 95.277 95.671 95.698 94.007 94.256 94.257 94.410
- HIP 84409** Ref: 95.388 95.693 95.703
- HIP 84430** Ref: 94.406
- HIP 84444** Ref: 95.693
- HIP 84449** Ref: 95.703
- HIP 84478** Ref: 95.124 95.277 95.671 94.007 94.410 93.073
- HIP 84479** Ref: 95.684
- HIP 84481** Ref: 95.558  
Comments: Possible period  $p = 11.92d$ .
- HIP 84483** Ref: 95.703
- HIP 84489** Ref: 95.445
- HIP 84494** Ref: 95.558
- HIP 84496** Ref: 92.162  
Comments: No sign of 1 mag amplitude as given in Hipparcos Input Catalogue.
- HIP 84500** Ref: 96.009 95.313 94.367 93.033 93.233 91.015 91.096 91.097 87.105 86.060 86.141 85.121 84.149 65.005 24.004 22.006 7.001
- HIP 84535** Comments: No periodicity detected. Indication of colour error.
- HIP 84545** Ref: 95.701
- HIP 84551** Ref: 95.445 94.056 93.015
- HIP 84556** Ref: 95.693 95.703
- HIP 84573** Ref: 93.233 90.127 87.054 86.097 86.141 85.043 85.222 80.026 78.009 77.005 75.029 75.032 38.001 35.007 26.005 22.006 7.001
- HIP 84578** Ref: 95.388 95.693
- HIP 84586** Ref: 95.171 95.242 95.287 95.430 95.486 94.265 93.073 93.118 88.122 87.151 85.041 84.014 84.122 84.159  
Comments: Variations on time scale of approximately 1d observed.
- HIP 84588** Ref: 95.388 95.693
- HIP 84606** Ref: 95.684
- HIP 84612** Ref: 95.693 95.703
- HIP 84628** Ref: 95.703
- HIP 84631** Ref: 95.684 94.266 76.039
- HIP 84634** Ref: 95.703
- HIP 84647** Ref: 95.445
- HIP 84650** Ref: 95.703  
Comments: Possible SR period  $p = 2.5611d$ , but type GCAS more likely.
- HIP 84655** Ref: 95.693
- HIP 84657** Ref: 95.703
- HIP 84670** Ref: 91.096 91.175 84.149 78.036 73.027 65.005 22.006
- HIP 84671** Ref: 95.419
- HIP 84675** Ref: 95.701
- HIP 84680** Comments: Some long term ( $> 400d$ ) variations observed.
- HIP 84686** Comments: Alternatively period may be twice this.
- HIP 84687** Ref: 95.388 95.693
- HIP 84703** Ref: 95.701

- HIP 84704** Ref: 95.347 95.445 95.483 95.684 94.191 90.024 82.089  
Comments: Data inadequate for confirmation of period from Ref 94.191. Only marginally variable. Alternative possible period  $p = 0.1734d$ .
- HIP 84706** Ref: 95.701
- HIP 84708** Comments: Possible contamination by companion at 16 arcsec N. Variability spurious.
- HIP 84716** Ref: 95.693
- HIP 84717** Ref: 95.703
- HIP 84720** Ref: 94.410
- HIP 84731** Ref: 89.067
- HIP 84744** Comments: Possible period  $p = 18.9300d$ .
- HIP 84745** Ref: 95.693 95.703
- HIP 84748** Ref: 93.071
- HIP 84757** Ref: 95.693 95.703 94.022 94.408
- HIP 84763** Ref: 88.020 77.027 22.006 7.001
- HIP 84780** Comments: Possible period  $p = 9.294d$ .
- HIP 84787** Ref: 95.445
- HIP 84788** Ref: 95.701
- HIP 84792** Ref: 95.684 95.701
- HIP 84801** Ref: 95.445
- HIP 84803** Ref: 95.445
- HIP 84809** Ref: 95.701
- HIP 84810** Ref: 95.701
- HIP 84821** Ref: 95.684
- HIP 84827** Ref: 95.445
- HIP 84829** Ref: 95.693 95.701
- HIP 84833** Ref: 95.419
- HIP 84837** Comments: Alternatively half the period.
- HIP 84855** Ref: 95.399
- HIP 84856** Ref: 95.445 95.701
- HIP 84862** Ref: 95.383 95.432 95.658 94.134 94.256 94.407 93.050
- HIP 84876** Comments: Possible period  $p = 543.0d$ , but very uncertain.
- HIP 84880** Ref: 95.684
- HIP 84881** Ref: 95.703
- HIP 84883** Ref: 95.445 95.684 95.732 93.015
- HIP 84887** Ref: 95.684
- HIP 84893** Ref: 95.684 95.701 93.211 91.102
- HIP 84905** Ref: 95.193 95.383 95.445 94.056 94.188 94.256 94.407 93.050
- HIP 84915** Comments: Variability possibly spurious, resulting from contamination by companion. Other notes: G.
- HIP 84922** Ref: 95.662
- HIP 84934** Ref: 93.015
- HIP 84948** Ref: 88.020 86.141 85.222 70.009 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 84949** Ref: 95.268 95.702 94.047 94.145 94.274 94.275 94.276 94.419 93.064 93.118 89.060 86.095 85.193 85.196 84.140 84.170  
Comments: A triple system with the EB and a G subgiant in an orbit with  $p = 5.2$  year. The G star is variable with period  $p = 81.9d$  (Ref 95.702).
- HIP 84970** Ref: 95.703 94.019 94.205 92.061 81.022 80.029 75.016  
Comments: Confirmation of period from Ref 80.029.
- HIP 84988** Ref: 95.122 95.386 95.445 94.043
- HIP 85018** Ref: 95.701
- HIP 85019** Ref: 95.445
- HIP 85020** Ref: 95.693 89.034
- HIP 85035** Ref: 95.580 92.110 89.154 88.108 85.054 76.021 71.018 64.008 64.009 61.002 58.001
- HIP 85042** Ref: 95.445
- HIP 85048** Ref: 89.067
- HIP 85049** Ref: 89.067
- HIP 85057** Comments: Alternatively period  $p = 2.55004d$  is possible.
- HIP 85068** Ref: 89.067
- HIP 85075** Ref: 95.703
- HIP 85079** Ref: 95.063 95.267 95.703 89.029
- HIP 85080** Ref: 95.701
- HIP 85084** Ref: 95.445
- HIP 85105** Ref: 95.701
- HIP 85112** Ref: 95.684
- HIP 85157** Ref: 95.684
- HIP 85159** Ref: 95.703
- HIP 85162** Ref: 95.703
- HIP 85181** Ref: 94.256 93.015
- HIP 85185** Ref: 95.684
- HIP 85187** Ref: 95.684
- HIP 85189** Ref: 95.693
- HIP 85195** Ref: 95.684 95.701
- HIP 85209** Ref: 94.188
- HIP 85223** Ref: 95.703
- HIP 85235** Ref: 95.386
- HIP 85237** Ref: 95.703
- HIP 85267** Ref: 95.035 94.367 91.128
- HIP 85268** Ref: 94.406
- HIP 85275** Ref: 95.701
- HIP 85285** Ref: 95.701
- HIP 85290** Ref: 95.684
- HIP 85295** Ref: 94.188 94.410
- HIP 85302** Ref: 95.419 92.133
- HIP 85307** Ref: 95.671 94.221
- HIP 85313** Ref: 95.684
- HIP 85317** Ref: 95.684
- HIP 85318** Ref: 95.703
- HIP 85331** Ref: 95.388 90.087
- HIP 85333** Ref: 95.684
- HIP 85340** Ref: 95.684 95.701 95.703
- HIP 85355** Ref: 95.419 94.264 93.029
- HIP 85365** Ref: 95.379 95.658
- HIP 85373** Ref: 94.188
- HIP 85378** Ref: 95.087 95.122 94.043 94.188
- HIP 85379** Ref: 95.684 94.209 93.050
- HIP 85382** Ref: 95.684
- HIP 85383** Ref: 95.693
- HIP 85386** Comments: Long- and short-term variations.
- HIP 85387** Ref: 95.703
- HIP 85391** Ref: 95.445 95.684 95.703
- HIP 85397** Ref: 95.445
- HIP 85398** Ref: 95.703
- HIP 85423** Ref: 93.015 83.020
- HIP 85429** Comments: Mira type double star processed as single. Separation about 8.5 arcsec. Position angle 80 deg.
- HIP 85442** Ref: 95.684 95.703
- HIP 85467** Ref: 95.703
- HIP 85474** Ref: 95.445
- HIP 85476** Ref: 95.703
- HIP 85487** Ref: 95.445
- HIP 85507** Comments: Possible period  $p = 7.5534d$ .
- HIP 85520** Ref: 95.445
- HIP 85522** Ref: 95.186  
Comments: Gradient over the mission, star becomes 0.15 mag fainter.
- HIP 85537** Ref: 95.143 95.445 95.684 94.211
- HIP 85549** Ref: 95.703
- HIP 85569** Ref: 95.388 95.693  
Comments: Period uncertain, bad time coverage.
- HIP 85589** Ref: 95.703
- HIP 85591** Ref: 95.701
- HIP 85613** Ref: 95.703
- HIP 85617** Ref: 95.084 95.361 95.509 94.196 94.418 22.006  
Comments: Variations of smaller amplitude and longer time scale than in Hipparcos Input Catalogue.
- HIP 85622** Ref: 95.445
- HIP 85641** Ref: 95.693
- HIP 85666** Ref: 95.684
- HIP 85667** Ref: 95.445 95.671 94.256
- HIP 85670** Ref: 95.419 95.625 95.698 94.378
- HIP 85676** Ref: 94.111
- HIP 85680** Ref: 95.430 93.092 93.118 90.059 89.060  
Comments: Period in Ref 90.059 confirmed.
- HIP 85688** Ref: 93.015

<b>HIP 85696</b> Ref: 95.703 94.248	<b>HIP 86060</b> Ref: 95.684 95.701 95.703 94.165 93.211 91.053 91.102 85.042 84.043 Comments: Period from Ref 84.043 confirmed.
<b>HIP 85699</b> Ref: 95.684	<b>HIP 86084</b> Comments: Possibly EA type.
<b>HIP 85701</b> Ref: 92.110 88.108 85.054 85.084 84.087 82.056 81.076 76.025 71.018 64.009 61.002 58.001	<b>HIP 86092</b> Ref: 95.703
<b>HIP 85703</b> Ref: 95.701	<b>HIP 86118</b> Ref: 95.684
<b>HIP 85724</b> Ref: 95.701	<b>HIP 86131</b> Ref: 72.017 30.013
<b>HIP 85727</b> Ref: 95.314 95.515 94.001 94.311	<b>HIP 86141</b> Ref: 94.339
<b>HIP 85729</b> Ref: 95.629	<b>HIP 86146</b> Ref: 95.693
<b>HIP 85734</b> Ref: 95.693 95.701	<b>HIP 86153</b> Comments: Possible period $p = 22.1100d$ .
<b>HIP 85740</b> Ref: 94.206	<b>HIP 86163</b> Ref: 95.693 Comments: Probably EA type, but insufficient data for period determination.
<b>HIP 85749</b> Ref: 93.092	<b>HIP 86174</b> Ref: 92.112
<b>HIP 85755</b> Ref: 95.033 95.145 95.154 95.684 95.703	<b>HIP 86178</b> Ref: 95.684
<b>HIP 85757</b> Ref: 94.188	<b>HIP 86184</b> Ref: 95.432 93.050
<b>HIP 85760</b> Ref: 94.542	<b>HIP 86197</b> Ref: 95.693
<b>HIP 85783</b> Ref: 95.703	<b>HIP 86201</b> Ref: 95.658 94.265 93.030
<b>HIP 85790</b> Ref: 95.684	<b>HIP 86228</b> Ref: 95.703
<b>HIP 85792</b> Ref: 95.104 95.325 95.515 94.311 94.403 89.029 Comments: Gradient over the mission, star getting 0.1 mag fainter.	<b>HIP 86231</b> Ref: 95.703
<b>HIP 85805</b> Ref: 95.062	<b>HIP 86246</b> Ref: 95.445
<b>HIP 85810</b> Ref: 95.386	<b>HIP 86248</b> Ref: 95.445
<b>HIP 85816</b> Ref: 95.693	<b>HIP 86253</b> Ref: 95.693
<b>HIP 85818</b> Comments: Possible contamination by companion at 9 arcsec. Variability probably spurious.	<b>HIP 86254</b> Ref: 95.684
<b>HIP 85819</b> Ref: 95.684	<b>HIP 86260</b> Ref: 94.191 Comments: Period in Ref 94.191 confirmed.
<b>HIP 85822</b> Ref: 95.580 95.684	<b>HIP 86263</b> Ref: 95.684 83.020
<b>HIP 85826</b> Ref: 95.684	<b>HIP 86266</b> Ref: 95.445 95.563 95.684 93.015
<b>HIP 85829</b> Ref: 95.684	<b>HIP 86269</b> Ref: 95.411 95.448 95.450 95.452 92.142 84.178
<b>HIP 85839</b> Ref: 95.347 95.445 94.191 90.024 83.049 Comments: Possible period $p = 0.2258d$ .	<b>HIP 86270</b> Ref: 94.280
<b>HIP 85840</b> Ref: 95.347	<b>HIP 86271</b> Ref: 95.693 95.701 95.703
<b>HIP 85849</b> Comments: Insufficient data for period determination.	<b>HIP 86284</b> Ref: 94.367
<b>HIP 85852</b> Ref: 95.268 95.694 94.040 94.134 94.145 94.265 94.419 93.015 93.118 92.111 89.060 Comments: An alternative possible period $p = 1.69981d$ .	<b>HIP 86287</b> Ref: 94.410
<b>HIP 85855</b> Ref: 95.087 95.122 95.235 94.043 94.389	<b>HIP 86303</b> Ref: 95.701
<b>HIP 85881</b> Ref: 95.693 95.703	<b>HIP 86305</b> Ref: 95.033 95.445
<b>HIP 85885</b> Ref: 95.693	<b>HIP 86306</b> Ref: 95.359 94.323 85.118 79.035 67.007
<b>HIP 85886</b> Ref: 95.703	<b>HIP 86311</b> Ref: 95.703
<b>HIP 85889</b> Ref: 95.703	<b>HIP 86346</b> Ref: 95.186 95.389 95.392 Comments: No confirmation of period from Ref 95.389.
<b>HIP 85902</b> Ref: 95.703	<b>HIP 86349</b> Ref: 95.686
<b>HIP 85912</b> Ref: 95.399 95.432 95.445 95.671 93.050	<b>HIP 86352</b> Ref: 95.701
<b>HIP 85918</b> Ref: 95.701	<b>HIP 86356</b> Ref: 94.111
<b>HIP 85919</b> Ref: 94.189	<b>HIP 86363</b> Ref: 95.703 94.189
<b>HIP 85922</b> Ref: 95.445 95.684	<b>HIP 86373</b> Ref: 94.289 93.015
<b>HIP 85927</b> Ref: 95.388 95.494 95.571 95.703 94.019 94.055 94.309 94.390 80.029 75.016 Comments: Confirmation of period from Ref 80.029.	<b>HIP 86391</b> Ref: 95.445
<b>HIP 85934</b> Ref: 94.542 92.011 Comments: Long-term variations observed.	<b>HIP 86395</b> Comments: Possible period $p = 62.03d$ .
<b>HIP 85952</b> Ref: 95.701	<b>HIP 86400</b> Ref: 95.124 95.277 95.445 95.475 95.510 95.671 94.007 94.339
<b>HIP 85957</b> Ref: 95.703	<b>HIP 86402</b> Ref: 95.693 95.701 95.703
<b>HIP 85960</b> Ref: 95.445	<b>HIP 86414</b> Ref: 95.016 94.403
<b>HIP 85963</b> Ref: 94.056 93.050	<b>HIP 86418</b> Ref: 95.693
<b>HIP 85965</b> Ref: 95.701	<b>HIP 86430</b> Ref: 85.125 84.146 83.120 81.039 65.005 22.006
<b>HIP 85967</b> Ref: 95.703	<b>HIP 86431</b> Ref: 95.383 94.188 94.407
<b>HIP 85980</b> Ref: 95.703	<b>HIP 86432</b> Ref: 85.003
<b>HIP 85985</b> Ref: 91.138 85.118 77.002	<b>HIP 86439</b> Comments: Possible period $p = 80.60d$ .
<b>HIP 85987</b> Ref: 95.445 95.684	<b>HIP 86443</b> Ref: 95.087 95.122 95.193 95.235 95.433 95.445 94.043 94.270
<b>HIP 85989</b> Ref: 95.445	<b>HIP 86451</b> Ref: 95.703
<b>HIP 85997</b> Ref: 95.701 Comments: Alternatively double the period and eclipsing.	<b>HIP 86459</b> Ref: 95.417
<b>HIP 85998</b> Ref: 95.684	<b>HIP 86476</b> Ref: 95.445
<b>HIP 86011</b> Ref: 95.388 95.693 94.435 85.074	<b>HIP 86486</b> Ref: 94.056 93.015 93.050
<b>HIP 86013</b> Ref: 95.122 95.445 94.043	<b>HIP 86487</b> Ref: 95.693 95.703 Comments: Possible alternative period $p = 1.01158d$ .
<b>HIP 86023</b> Ref: 95.701	<b>HIP 86512</b> Ref: 95.297 95.378 95.697 94.236 94.282 94.286 82.054 77.031 73.024
<b>HIP 86026</b> Ref: 95.703	<b>HIP 86515</b> Ref: 95.693 95.703
<b>HIP 86032</b> Ref: 95.313 95.338 95.684 94.064 94.188 94.314	<b>HIP 86527</b> Ref: 30.012 Comments: Long-term variations (400–800d).
<b>HIP 86036</b> Ref: 94.257 94.265 93.064	<b>HIP 86546</b> Ref: 95.684
	<b>HIP 86552</b> Ref: 95.703
	<b>HIP 86565</b> Ref: 95.347 95.684 83.020
	<b>HIP 86572</b> Ref: 95.704 94.423 93.211 91.102

- HIP 86574** Ref: 94.246  
**HIP 86575** Ref: 95.445  
**HIP 86579** Ref: 94.175 94.216 93.092 90.059  
**HIP 86605** Ref: 95.388 95.693 95.703  
**HIP 86614** Ref: 94.257  
**HIP 86620** Ref: 94.257  
**HIP 86624** Ref: 95.128 95.476 95.503 95.536 95.693  
 95.704 94.193 94.423 93.211 91.019 91.102 76.014  
 74.004  
 Comments: Variations on time scale of 400d.  
**HIP 86633** Ref: 94.423 93.211  
**HIP 86650** Ref: 95.347 94.191 94.286 90.024 83.023  
 77.031 66.010 66.011 63.001 61.004  
 Comments: Double-mode DSCT star. Period in Ref  
 94.191 confirmed but probably other periodicities  
 present.  
**HIP 86653** Ref: 95.693 95.704 94.423 93.211 91.102  
**HIP 86658** Comments: Alternatively double the period.  
**HIP 86670** Ref: 95.703 81.022 80.029 75.016  
 Comments: Possible confirmation of period from Ref  
 80.029.  
**HIP 86672** Comments: Possible period  $p = 7.816d$ .  
**HIP 86673** Ref: 95.388 95.693  
**HIP 86694** Ref: 95.122 95.235 95.383 95.433 95.697  
 94.043  
**HIP 86706** Ref: 94.246  
**HIP 86725** Ref: 95.445 95.684 95.703  
**HIP 86728** Ref: 94.196 22.006 7.001  
 Comments: Long-term variations (500d) observed.  
**HIP 86731** Ref: 95.419 95.661 95.671 93.064  
**HIP 86732** Ref: 95.385 95.445  
**HIP 86736** Ref: 93.211 91.102  
**HIP 86742** Ref: 95.209 95.259 95.390 95.419 95.625  
 95.683 94.042 94.334 93.015 90.108  
 Comments: Possibly variable.  
**HIP 86755** Ref: 95.703  
**HIP 86762** Ref: 95.703  
**HIP 86768** Ref: 95.283 95.590 94.232  
**HIP 86769** Ref: 95.445  
**HIP 86776** Ref: 94.410  
**HIP 86777** Ref: 95.704 94.073 94.423 93.113 93.211  
 91.102 30.012  
 Comments: Possible period  $p = 3.52d$ . Sudden dips  
 in luminosity.  
**HIP 86782** Ref: 95.684  
**HIP 86796** Ref: 95.445  
**HIP 86799** Ref: 95.703  
**HIP 86805** Ref: 95.708 94.209 72.018  
**HIP 86809** Ref: 95.313 95.684 91.096 84.054 83.020  
 80.049  
**HIP 86831** Ref: 95.445 95.684  
**HIP 86835** Ref: 95.445 95.684  
**HIP 86839** Ref: 94.246  
**HIP 86847** Ref: 95.703  
**HIP 86850** Ref: 95.703  
**HIP 86869** Ref: 95.465 95.471 94.235 94.369 91.168  
 91.201 80.034  
 Comments: AC-DC difference almost constant at 0.5  
 mag. Planetary nebula.  
**HIP 86873** Ref: 95.084 95.309 95.509 94.418 22.006  
**HIP 86894** Ref: 95.703  
**HIP 86898** Ref: 95.693 95.703  
**HIP 86925** Ref: 95.523 95.684 95.690  
**HIP 86944** Ref: 94.209 72.018  
**HIP 86946** Ref: 95.428 94.216 93.092 93.118  
 Comments: Period in Ref 93.118 confirmed.  
**HIP 86949** Ref: 95.693  
**HIP 86954** Ref: 94.209 94.297 72.018  
**HIP 86960** Ref: 94.209 72.018  
 Comments: Unable to confirm variability reported in  
 Ref 95.708.  
**HIP 86971** Ref: 94.423 93.211 91.102  
 Comments: No minima observed.  
**HIP 86974** Ref: 95.379 95.644 95.702 94.407 94.410  
 93.015  
**HIP 86977** Ref: 94.209  
**HIP 86983** Ref: 95.703  
**HIP 86993** Ref: 94.209 72.018  
 Comments: Unable to confirm variability reported in  
 Ref 95.708.  
**HIP 87001** Ref: 95.250 95.686 94.246 94.407  
**HIP 87002** Ref: 94.209 72.018  
**HIP 87025** Ref: 94.246  
**HIP 87033** Ref: 95.703  
**HIP 87044** Ref: 95.684  
**HIP 87045** Ref: 95.684 94.209  
**HIP 87063** Ref: 30.013 22.006 7.001  
 Comments: Long-term variations.  
**HIP 87072** Ref: 95.561 94.375 94.376 94.377 93.190  
 92.110 92.205 90.141 89.154 86.002 85.084 84.087  
 80.054 76.025 71.018 68.012 64.009 61.002 58.001  
 58.003 40.003 34.002 22.006  
**HIP 87074** Ref: 93.088  
**HIP 87089** Ref: 95.445  
**HIP 87093** Ref: 95.703  
**HIP 87099** Ref: 95.445  
**HIP 87101** Ref: 95.193 95.445 95.697 94.188 94.280  
**HIP 87108** Ref: 95.684 94.311  
**HIP 87116** Ref: 95.386 95.445  
**HIP 87118** Ref: 95.520 95.546  
**HIP 87132** Ref: 72.018  
**HIP 87136** Ref: 94.120 94.211  
**HIP 87144** Ref: 95.703  
**HIP 87150** Ref: 95.684  
**HIP 87158** Ref: 93.057  
**HIP 87161** Ref: 95.703  
**HIP 87163** Ref: 95.703 83.050  
**HIP 87164** Ref: 95.693  
**HIP 87173** Ref: 89.154 88.108 85.054 85.084 84.087  
 83.073 71.018 64.008 64.009 61.002 58.001 41.002  
**HIP 87174** Ref: 95.445  
**HIP 87184** Ref: 72.018  
 Comments: Unable to confirm period from Ref  
 95.708.  
**HIP 87190** Ref: 95.165 94.196  
**HIP 87191** Ref: 41.002  
**HIP 87192** Ref: 95.684  
**HIP 87194** Ref: 94.483  
**HIP 87204** Ref: 94.206  
**HIP 87212** Ref: 95.684 94.209  
**HIP 87220** Ref: 95.703 94.188  
**HIP 87232** Ref: 95.693  
**HIP 87234** Ref: 93.050  
**HIP 87280** Ref: 95.095 95.684 86.018 83.062 80.056  
 78.047 74.020 73.003 72.019  
**HIP 87294** Ref: 95.693  
**HIP 87302** Comments: Possible alternative period  
 $p = 5.7243d$ .  
**HIP 87306** Ref: 95.703  
**HIP 87311** Comments: Possible period  $p = 14.03d$ .  
**HIP 87314** Ref: 95.313 91.096 83.030 80.049 79.029  
 71.004  
 Comments: Considerable phase shift in new data  
 relative to old ephemeris. Other notes: D.  
**HIP 87335** Ref: 95.445  
**HIP 87341** Ref: 95.684  
**HIP 87345** Ref: 95.482 94.228 92.070 89.154 85.084  
 84.087 76.025 71.018 64.009 61.002 41.002 40.003  
 30.013 22.006 7.001  
**HIP 87361** Ref: 95.693  
**HIP 87390** Ref: 89.067  
 Comments: Possible period  $p = 3.864d$ .  
**HIP 87393** Ref: 89.067  
**HIP 87404** Ref: 95.445  
**HIP 87410** Ref: 95.703  
**HIP 87428** Ref: 93.092  
**HIP 87433** Ref: 95.387  
 Comments: Possible confirmation of period  $p = 670d$ .

- HIP 87460** Ref: 85.175 84.042 84.043  
Comments: Insufficient data to confirm Ref 84.042 ( $p = 1.658552d$ ).
- HIP 87467** Ref: 94.389
- HIP 87472** Ref: 95.062 95.363 93.092 89.067
- HIP 87495** Ref: 95.365 95.447 95.452 95.482 94.301  
93.146 92.070 92.110 89.154 88.108 86.044 85.084  
84.087 81.076 80.054 76.021 76.025 71.018 68.012  
64.009 61.002 58.001 51.001 40.003 22.006 7.001
- HIP 87497** Ref: 94.191  
Comments: Period from Ref 94.191 confirmed.
- HIP 87505** Ref: 95.693
- HIP 87523** Ref: 95.445 94.056 93.050
- HIP 87532** Ref: 95.445
- HIP 87538** Ref: 92.162  
Comments: Possible period  $p = 19.01d$ .
- HIP 87556** Ref: 80.051 68.010
- HIP 87558** Ref: 95.427 95.658
- HIP 87560** Ref: 84.042  
Comments: No confirmation of periods from Ref 84.042.
- HIP 87563** Ref: 94.209
- HIP 87585** Ref: 94.209
- HIP 87616** Ref: 95.363
- HIP 87624** Ref: 84.042 83.038  
Comments: Confirmation of period from Ref 84.042.
- HIP 87643** Ref: 87.131 80.036 65.005 64.011 64.013  
22.006
- HIP 87656** Ref: 83.038 83.060
- HIP 87681** Ref: 95.378 95.379 95.697 94.123 94.236  
94.409 93.111 88.039 69.011 66.008 22.006
- HIP 87693** Ref: 95.193
- HIP 87706** Ref: 95.022 95.693 95.703
- HIP 87710** Ref: 94.406
- HIP 87712** Ref: 95.703
- HIP 87746** Ref: 95.694 94.134 94.265 93.118 92.111  
90.059
- HIP 87747** Ref: 95.015 95.419 95.471 94.120 94.235  
94.407 92.162 91.168 91.201 80.034
- HIP 87768** Ref: 93.030
- HIP 87782** Ref: 95.445 95.684 95.703
- HIP 87797** Comments: Possible period  $p = 11.01d$ .
- HIP 87804** Ref: 94.236
- HIP 87805** Ref: 94.189
- HIP 87808** Ref: 95.268 95.419 95.698
- HIP 87810** Ref: 95.703 75.018 41.002
- HIP 87811** Ref: 92.112
- HIP 87812** Ref: 94.019 94.205 94.367 93.126 92.061  
75.016
- HIP 87813** Ref: 95.684 95.703
- HIP 87819** Ref: 95.056 95.077 95.169 95.176 95.342  
95.515 95.703 94.030 94.153 94.211 89.026 85.014
- HIP 87820** Ref: 95.509 95.581 94.167 94.418 88.020  
30.013 22.006 7.001
- HIP 87822** Ref: 95.386
- HIP 87833** Ref: 95.062 95.527 95.628 95.661 95.698  
93.029
- HIP 87836** Ref: 95.445 95.684 95.703
- HIP 87850** Ref: 95.332 95.419 93.093 93.095
- HIP 87853** Ref: 95.703
- HIP 87860** Ref: 95.359 95.438 94.158 94.323 94.444  
93.179 93.243 85.097 84.111 84.149 75.017 69.013  
65.005 64.013 58.002
- HIP 87865** Ref: 95.445
- HIP 87866** Ref: 95.684 93.126
- HIP 87875** Ref: 95.684 94.209 93.126
- HIP 87893** Ref: 95.703
- HIP 87895** Ref: 95.355
- HIP 87908** Comments: Possible period  $p = 4.405d$ .
- HIP 87910** Ref: 95.684
- HIP 87913** Ref: 22.006 7.001
- HIP 87922** Ref: 95.297 95.697 94.236 94.282 94.286  
82.054 77.031
- HIP 87926** Ref: 95.445
- HIP 87933** Ref: 94.042 94.265 93.015
- HIP 87937** Ref: 95.458 95.504 95.505 95.689 95.692  
94.407 94.410 89.059
- HIP 87939** Ref: 93.126
- HIP 87942** Ref: 95.693
- HIP 87965** Ref: 95.268 95.430 95.681 95.702 94.047  
94.125 94.134 94.145 94.419 93.064 93.118 91.096  
89.060 88.025 85.041 84.149 30.013 22.006 7.001
- HIP 87991** Ref: 94.206
- HIP 87994** Ref: 94.191 90.016 90.024 86.001 77.031  
Comments: Period from Ref 94.191 confirmed.
- HIP 87998** Ref: 95.385 88.106
- HIP 88004** Ref: 95.629 94.189
- HIP 88008** Ref: 95.268 95.428 95.430 94.040 94.047  
94.125 94.269 94.419 93.118 92.081 85.068 85.124  
83.074 71.009
- HIP 88010** Ref: 95.193 95.433 94.188
- HIP 88012** Ref: 95.703
- HIP 88028** Ref: 95.715 88.115 85.065 85.103
- HIP 88030** Ref: 95.684 94.202 91.053 84.043
- HIP 88033** Ref: 95.445
- HIP 88038** Ref: 89.067
- HIP 88040** Ref: 95.388 95.693 95.703
- HIP 88049** Ref: 95.693 95.703
- HIP 88064** Ref: 95.297 95.378 95.697 94.236 94.282  
94.286 82.054 77.031 73.024 40.003 25.003 22.006  
7.001
- HIP 88067** Comments: Possible period  $p = 7.606d$ .
- HIP 88069** Ref: 95.276 95.313 93.033 91.096 85.022  
77.011 56.004
- HIP 88074** Ref: 95.703
- HIP 88081** Ref: 80.059 22.006
- HIP 88085** Ref: 95.632 95.693 95.703
- HIP 88101** Ref: 95.445
- HIP 88116** Ref: 95.684 95.703
- HIP 88119** Ref: 94.206
- HIP 88123** Ref: 95.703 95.704 94.423 93.211
- HIP 88126** Ref: 95.693 95.703
- HIP 88128** Ref: 95.268 95.419 94.209
- HIP 88132** Ref: 93.126  
Comments: According to Ref 93.126 possible period  
 $p = 0.9071d$ .
- HIP 88148** Ref: 95.445 95.684 85.042 85.045 84.043
- HIP 88149** Ref: 95.063 95.104 95.325 95.752 94.403  
92.162 89.029 88.016 76.039
- HIP 88157** Ref: 95.388 95.693 94.189
- HIP 88175** Ref: 94.407 93.015
- HIP 88192** Ref: 95.146 95.338 95.683 94.367
- HIP 88193** Ref: 95.693 95.703
- HIP 88213** Ref: 95.016 93.126 76.039
- HIP 88217** Ref: 95.445
- HIP 88219** Ref: 95.703
- HIP 88237** Ref: 95.558
- HIP 88242** Ref: 94.060 94.102 94.110 94.409 93.201  
92.102 86.032 85.084 84.087 83.016 82.058 77.040  
71.018 64.009 58.003 50.001
- HIP 88258** Ref: 95.445
- HIP 88267** Ref: 94.289
- HIP 88272** Ref: 95.729 95.732 95.739
- HIP 88278** Ref: 95.688
- HIP 88281** Ref: 95.693 95.703
- HIP 88287** Ref: 95.693 95.704 94.022 94.423 93.211  
91.102 86.015 86.153 84.195 81.026
- HIP 88290** Ref: 95.143 95.145 95.594 95.684 93.057
- HIP 88297** Ref: 95.693 95.703
- HIP 88298** Ref: 95.302 95.472 95.693
- HIP 88331** Ref: 93.126 85.133  
Comments: According to Ref 93.126 possible period  
 $p = 0.637d$ .
- HIP 88333** Ref: 95.388 95.515 95.693  
Comments: Possible indication of eclipses. Other  
notes: G.
- HIP 88352** Ref: 95.472 94.189
- HIP 88362** Ref: 95.693 95.703
- HIP 88369** Ref: 95.703
- HIP 88374** Ref: 95.684

- HIP 88380** Ref: 93.015 92.119  
**HIP 88396** Ref: 95.693 95.703  
**HIP 88402** Ref: 94.236  
**HIP 88409** Ref: 95.703  
**HIP 88411** Comments: Possible period  $p = 212d$ .  
**HIP 88415** Ref: 95.684  
**HIP 88429** Ref: 95.684  
**HIP 88439** Ref: 95.703  
**HIP 88463** Ref: 95.693 95.703  
**HIP 88469** Ref: 95.022 95.503 95.515 95.693 94.309  
 94.367 94.370 89.034  
**HIP 88484** Ref: 95.693  
**HIP 88496** Ref: 95.693  
**HIP 88498** Ref: 94.206  
**HIP 88504** Ref: 95.703  
**HIP 88522** Ref: 93.071 89.029 76.039 75.016  
**HIP 88527** Ref: 95.163 95.433 95.445 95.697 94.095  
 94.407 93.130  
**HIP 88528** Ref: 95.347 95.684 94.191 89.082  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 88532** Ref: 95.693 95.703  
**HIP 88560** Ref: 95.693 95.703 94.189  
**HIP 88565** Ref: 95.684  
**HIP 88567** Ref: 95.580 94.176 94.177 94.375 94.376  
 94.377 92.110 92.205 89.154 88.108 87.171 85.084  
 84.087 84.196 81.076 80.054 75.014 71.018 68.012  
 64.008 64.009 61.002 58.001 58.003 40.003 22.006  
 7.001  
**HIP 88574** Ref: 94.410  
**HIP 88581** Ref: 95.022 95.388 95.693  
**HIP 88584** Ref: 22.006 7.001  
**HIP 88597** Ref: 95.111 95.302 95.312 95.570 95.693  
 95.704 94.423 93.211  
**HIP 88601** Ref: 95.124 95.277 95.357 95.671 95.698  
 94.007 94.188 94.257 94.265 94.410  
 Comments: Period possibly spurious. Other notes: D.  
**HIP 88622** Ref: 95.386 95.432 95.445 93.050  
**HIP 88624** Ref: 94.248  
**HIP 88627** Ref: 95.320 95.321 95.327 95.684 94.202  
 91.053 81.045  
**HIP 88635** Ref: 95.137  
**HIP 88637** Ref: 95.268 94.047 94.125 94.206 94.233  
 94.248 94.257 94.265 94.419 93.064 93.118 92.111  
 85.152 85.193  
**HIP 88639** Ref: 94.206  
**HIP 88648** Ref: 95.445  
**HIP 88652** Ref: 95.693  
**HIP 88657** Ref: 92.133  
**HIP 88670** Ref: 95.193  
**HIP 88671** Ref: 95.385 95.445  
**HIP 88684** Ref: 95.445  
**HIP 88694** Ref: 95.445 93.075  
**HIP 88696** Ref: 93.092  
**HIP 88711** Comments: Possible period  $p = 7.159d$ .  
**HIP 88720** Ref: 95.703  
**HIP 88730** Ref: 95.693  
**HIP 88743** Ref: 93.073 93.118  
**HIP 88745** Ref: 95.041 95.087 95.122 95.211 95.357  
 95.383 95.432 95.644 94.043 94.257 94.407 93.050  
**HIP 88754** Ref: 95.684  
**HIP 88760** Ref: 95.693 95.703  
**HIP 88765** Ref: 95.433 94.407 93.015  
**HIP 88771** Ref: 95.379 95.684  
**HIP 88775** Ref: 71.018 64.009 61.002 22.006  
**HIP 88782** Ref: 95.445  
**HIP 88794** Ref: 22.006  
**HIP 88802** Ref: 94.236 40.004  
 Comments: Fainter than expected, but appears to fit  
 period from literature.  
**HIP 88814** Ref: 95.684  
**HIP 88817** Ref: 95.684  
**HIP 88818** Ref: 95.684  
**HIP 88820** Ref: 95.332  
**HIP 88828** Ref: 95.693  
**HIP 88838** Ref: 95.065 95.253 95.319 95.471 95.491  
 95.518 95.692 94.273 94.413 22.006 7.001  
 Comments: Amplitude smaller than expected.  
 Ephemeris based on AAVSO data.  
**HIP 88848** Ref: 95.268 95.702 94.040 94.265 94.419  
 93.064 93.118 92.111 85.122 85.193  
 Comments: Spectroscopic period ( $p = 1.8098d$ )  
 appears to be reflected in photometric data.  
**HIP 88853** Comments: Period may be half.  
**HIP 88855** Ref: 22.006  
**HIP 88856** Ref: 95.008 95.111 95.151 95.236 95.693  
 95.703 94.022  
**HIP 88862** Ref: 95.445 95.684 93.003  
**HIP 88866** Ref: 95.704 94.349 94.423 93.211 91.102  
**HIP 88876** Ref: 95.693 94.367  
 Comments: Possible period  $p = 21.29d$ .  
**HIP 88884** Ref: 95.693  
 Comments: Possible alternative period  $p = 0.1758d$ .  
**HIP 88886** Ref: 94.209 94.248 94.314  
**HIP 88899** Ref: 95.684 94.209  
**HIP 88905** Ref: 95.703  
**HIP 88923** Ref: 91.002 88.020 86.141 86.141 85.222  
 70.009 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 88933** Ref: 76.025 71.018 64.008 58.001  
**HIP 88937** Ref: 95.445  
**HIP 88940** Ref: 93.093 93.095  
**HIP 88943** Ref: 95.276 95.693 90.107 90.121  
**HIP 88946** Ref: 96.005 95.726 94.430 94.444 91.143  
 90.127 88.114 65.005  
 Comments: Phase shift in zero point for new data  
 relative to old ephemeris.  
**HIP 88947** Ref: 95.693  
**HIP 88964** Ref: 95.445  
**HIP 88972** Ref: 95.124 95.193 95.277 95.386 95.510  
 95.644 95.671 94.007 94.188 94.256 94.407  
**HIP 88977** Ref: 95.383 95.433 95.445 95.691 95.697  
 93.130  
**HIP 88981** Ref: 95.445  
**HIP 88994** Ref: 95.545 93.103 89.169 86.120 73.023  
 30.013 22.006  
**HIP 88995** Ref: 95.693  
**HIP 89000** Ref: 95.445 95.658  
**HIP 89005** Ref: 93.030  
**HIP 89007** Ref: 95.693 95.703  
**HIP 89010** Ref: 95.445  
**HIP 89013** Ref: 95.447 95.450 95.452 94.117 71.018  
 64.009  
**HIP 89016** Ref: 95.703  
**HIP 89018** Ref: 91.002  
**HIP 89023** Ref: 95.684  
**HIP 89029** Ref: 95.693  
**HIP 89039** Ref: 95.430 95.726 94.047 94.269 93.118  
 92.081 92.111 89.060  
**HIP 89042** Ref: 95.445 95.704 94.423 93.211 91.102  
**HIP 89047** Ref: 94.407  
**HIP 89057** Ref: 95.703  
**HIP 89060** Ref: 95.693  
**HIP 89061** Ref: 95.703  
**HIP 89084** Ref: 88.030 22.006  
**HIP 89086** Ref: 95.515 95.703  
**HIP 89099** Ref: 95.684  
**HIP 89102** Ref: 94.246  
**HIP 89104** Ref: 95.684  
**HIP 89107** Ref: 95.703  
**HIP 89111** Ref: 95.693  
**HIP 89112** Ref: 95.558  
**HIP 89114** Ref: 95.684 95.703  
**HIP 89115** Ref: 95.558  
**HIP 89129** Ref: 95.693 95.703 94.189  
**HIP 89141** Ref: 84.120  
**HIP 89156** Ref: 95.684  
**HIP 89158** Ref: 95.693  
**HIP 89164** Ref: 95.693 95.703  
**HIP 89170** Ref: 95.693



<b>HIP 89172</b> Ref: 95.419 94.407 94.542	<b>HIP 89596</b> Ref: 95.482 93.208 92.070 89.154 85.084
<b>HIP 89176</b> Ref: 95.703	84.087 84.192 71.018 64.008 64.009 61.002 58.001
<b>HIP 89177</b> Ref: 95.388 95.693 95.703	51.001 40.003 22.006
<b>HIP 89178</b> Ref: 95.445 95.684 95.703 93.119 85.042	<b>HIP 89601</b> Ref: 95.445 95.684 94.188
85.045 84.043	<b>HIP 89620</b> Ref: 95.445
Comments: Period from Ref 85.045 not confirmed.	<b>HIP 89622</b> Ref: 95.684 95.703
<b>HIP 89189</b> Ref: 95.703	<b>HIP 89623</b> Ref: 95.445 95.684 93.057
<b>HIP 89203</b> Ref: 95.693 95.703 94.189	<b>HIP 89630</b> Ref: 95.521 95.693 95.703 94.357
<b>HIP 89215</b> Ref: 95.445	<b>HIP 89637</b> Ref: 95.703 88.127 22.006 7.001
<b>HIP 89217</b> Ref: 94.189	<b>HIP 89641</b> Ref: 95.693
<b>HIP 89222</b> Ref: 95.693 95.703	<b>HIP 89659</b> Ref: 95.703
<b>HIP 89223</b> Ref: 95.693 95.703	<b>HIP 89660</b> Ref: 95.703
<b>HIP 89238</b> Ref: 95.693 95.703	<b>HIP 89662</b> Comments: Possible period $p = 67.08d$ .
<b>HIP 89258</b> Ref: 95.692 88.020 82.043 81.016 77.027	<b>HIP 89681</b> Ref: 95.388 95.685 95.693 94.367 93.211
22.006 7.001	92.128 91.102 88.019 88.130 87.002 85.145 85.163
Comments: Ephemeris based on AAVSO data.	84.114 84.154
<b>HIP 89262</b> Ref: 95.693 95.703 94.189	Comments: Period may be half.
<b>HIP 89276</b> Ref: 95.447 95.450 95.452 93.146 92.110	<b>HIP 89708</b> Ref: 95.703
89.154 85.054 85.084 84.087 82.056 76.025 71.018	<b>HIP 89726</b> Ref: 95.463 95.494 95.547 95.571 95.577
64.009 61.002 58.001 40.003 22.006	95.645 95.662 86.042
<b>HIP 89288</b> Ref: 95.684	<b>HIP 89727</b> Ref: 91.102
<b>HIP 89290</b> Ref: 85.042 84.043	<b>HIP 89729</b> Ref: 95.022 95.693 93.211 91.102
<b>HIP 89298</b> Ref: 95.062	<b>HIP 89736</b> Ref: 95.693
<b>HIP 89302</b> Ref: 95.703	<b>HIP 89739</b> Ref: 93.211 91.102 30.012 22.006
<b>HIP 89307</b> Ref: 95.703	<b>HIP 89743</b> Ref: 94.212
<b>HIP 89326</b> Ref: 95.297 95.378 95.697 94.236 94.282	<b>HIP 89744</b> Ref: 95.703
94.286 93.128 82.054 77.031	<b>HIP 89750</b> Ref: 95.693 94.212
<b>HIP 89341</b> Ref: 95.022 95.683 95.693 94.367 93.211	<b>HIP 89753</b> Ref: 95.693 94.212
91.102 90.119	<b>HIP 89769</b> Ref: 95.013 95.098 95.174 94.357 94.423
<b>HIP 89348</b> Ref: 95.432 94.420 93.050	93.211 91.102 85.067 82.095 71.015
<b>HIP 89366</b> Ref: 95.703	<b>HIP 89783</b> Ref: 94.418 7.001
<b>HIP 89370</b> Ref: 95.445	<b>HIP 89805</b> Ref: 95.445
<b>HIP 89372</b> Ref: 94.236 82.036 77.040	<b>HIP 89806</b> Ref: 95.357
<b>HIP 89392</b> Ref: 95.703	<b>HIP 89808</b> Ref: 95.386
<b>HIP 89404</b> Ref: 95.693 95.703	<b>HIP 89813</b> Ref: 93.211
Comments: Possibly EA type.	<b>HIP 89826</b> Ref: 94.542
<b>HIP 89416</b> Comments: Possibly E type.	<b>HIP 89830</b> Ref: 93.211
<b>HIP 89419</b> Ref: 91.002 88.020 86.141 85.222 70.009	<b>HIP 89856</b> Ref: 95.693
22.006 7.001	<b>HIP 89860</b> Ref: 93.092
Comments: Ephemeris based on AAVSO data.	<b>HIP 89861</b> Ref: 94.407
<b>HIP 89436</b> Ref: 95.693	<b>HIP 89874</b> Ref: 95.277
<b>HIP 89439</b> Ref: 95.388 95.693 95.703 94.367 94.370	Comments: Possible period $p = 2.4585d$ .
93.211 91.102	<b>HIP 89886</b> Ref: 95.704 94.092 94.404 94.423 93.211
<b>HIP 89440</b> Ref: 95.388 95.693 95.703 94.367 94.370	91.102
93.211 91.102	Comments: No eclipses observed.
<b>HIP 89441</b> Ref: 95.388 95.693	<b>HIP 89908</b> Ref: 95.684 94.202 91.053 84.043
<b>HIP 89450</b> Ref: 95.297 94.236 82.054 77.031	Comments: Period from Ref 84.043 confirmed.
<b>HIP 89463</b> Ref: 95.703	<b>HIP 89917</b> Ref: 95.703
<b>HIP 89470</b> Ref: 95.684 95.693 95.703	<b>HIP 89918</b> Ref: 93.015
<b>HIP 89482</b> Ref: 94.209	<b>HIP 89920</b> Ref: 95.445
<b>HIP 89486</b> Ref: 95.703	<b>HIP 89922</b> Ref: 95.703
<b>HIP 89487</b> Ref: 95.445	<b>HIP 89925</b> Ref: 95.684
<b>HIP 89498</b> Ref: 95.715 65.005 64.013 22.006	<b>HIP 89931</b> Ref: 95.390 95.427 93.057
<b>HIP 89502</b> Ref: 93.211 91.102	<b>HIP 89933</b> Ref: 95.703 95.704 94.423 93.211 91.102
Comments: Possible period $p = 16.95d$ .	<b>HIP 89935</b> Ref: 95.684
<b>HIP 89507</b> Ref: 89.067	<b>HIP 89937</b> Ref: 95.658 94.257 94.407 94.410
<b>HIP 89508</b> Ref: 95.693	<b>HIP 89946</b> Ref: 95.693
<b>HIP 89510</b> Comments: Possible alternative period	<b>HIP 89954</b> Ref: 95.703
$p = 9.325d$ .	<b>HIP 89955</b> Comments: Possible alternative period
<b>HIP 89512</b> Ref: 95.445 95.684	$p = 3.237d$ .
<b>HIP 89527</b> Ref: 92.133	<b>HIP 89956</b> Ref: 95.010 95.503 95.693 95.704 94.211
Comments: Possible period $p = 25.97d$ .	94.423 93.211 92.009 91.102
<b>HIP 89551</b> Ref: 94.189	Comments: Possible period $p = 4.9134d$ .
<b>HIP 89554</b> Ref: 95.122 95.235 95.433 95.697 94.043	<b>HIP 89960</b> Ref: 95.703
<b>HIP 89568</b> Ref: 91.002 88.020 81.016 77.027 74.036	<b>HIP 89962</b> Ref: 95.163 93.029
22.006 7.001	<b>HIP 89963</b> Ref: 95.010 95.503 95.536 95.693 95.704
Comments: Ephemeris based on AAVSO data.	94.423 93.211 92.009 91.102
<b>HIP 89579</b> Ref: 94.191 93.230 93.236 91.096 90.092	<b>HIP 89968</b> Ref: 94.414 92.110 92.205 89.154 86.002
Comments: Ref 93.236: eclipsing binary with	85.054 85.084 85.222 84.087 80.054 76.025 71.018
pulsating component.	68.012 64.009 61.002 58.001 51.001 22.006 7.001
<b>HIP 89584</b> Ref: 95.388 95.693	<b>HIP 89975</b> Ref: 95.324
<b>HIP 89587</b> Ref: 95.419 93.015	<b>HIP 89980</b> Ref: 94.204 94.542
<b>HIP 89592</b> Ref: 95.445	<b>HIP 89992</b> Ref: 95.693
	<b>HIP 90012</b> Ref: 95.684 95.703
	<b>HIP 90016</b> Ref: 95.703

<b>HIP 90019</b> Ref: 79.033 22.006	<b>HIP 90497</b> Ref: 94.209
<b>HIP 90034</b> Ref: 95.693	<b>HIP 90505</b> Ref: 95.703
<b>HIP 90043</b> Comments: Possible period $p = 2.2552d$ .	<b>HIP 90510</b> Ref: 95.684
<b>HIP 90052</b> Ref: 95.684	<b>HIP 90541</b> Ref: 95.684
<b>HIP 90053</b> Ref: 95.378 94.236 94.409 66.008	<b>HIP 90552</b> Ref: 95.693
<b>HIP 90062</b> Ref: 95.693	<b>HIP 90576</b> Ref: 95.684 95.703
<b>HIP 90074</b> Ref: 95.320 95.321 95.621 95.684 94.165 93.088 93.211 91.053 91.102 84.026 84.043	<b>HIP 90589</b> Ref: 95.704 94.423 91.102
<b>HIP 90083</b> Ref: 95.684	<b>HIP 90595</b> Ref: 95.684 93.057
<b>HIP 90092</b> Ref: 94.113 65.005 64.013 22.006	<b>HIP 90599</b> Ref: 95.276 93.033 91.096 90.133 87.026 86.011 84.062 80.049 65.005
<b>HIP 90100</b> Comments: Possible period $p = 4.494d$ . Other notes: D.	<b>HIP 90606</b> Ref: 89.067
<b>HIP 90107</b> Ref: 95.693	<b>HIP 90610</b> Ref: 95.703
<b>HIP 90108</b> Comments: Possible period $p = 9.835d$ .	<b>HIP 90639</b> Ref: 95.703
<b>HIP 90109</b> Ref: 94.407	<b>HIP 90642</b> Ref: 95.445
<b>HIP 90110</b> Ref: 81.076 76.025 64.009 61.005 58.001 22.006	<b>HIP 90646</b> Comments: Possible period $p = 30.52d$ .
<b>HIP 90115</b> Ref: 93.150	<b>HIP 90651</b> Ref: 95.320 95.321 95.684 94.202 93.119 91.053 85.042 85.045 84.043
<b>HIP 90119</b> Ref: 95.388 95.693 95.703	<b>HIP 90659</b> Ref: 95.348 95.697 94.280 93.092
<b>HIP 90121</b> Ref: 95.703	<b>HIP 90692</b> Ref: 95.062 95.385 93.092
<b>HIP 90133</b> Ref: 95.684	<b>HIP 90697</b> Ref: 95.137 95.215 95.697 93.107 92.017 92.027 92.162 90.002 88.093 87.097 85.238 84.110 84.176 30.012
<b>HIP 90135</b> Ref: 93.092	Comments: Ephemeris based on AAVSO data.
<b>HIP 90146</b> Ref: 95.684	<b>HIP 90705</b> Ref: 95.703
<b>HIP 90156</b> Ref: 95.684	<b>HIP 90709</b> Ref: 95.509 94.418 22.006 7.001
<b>HIP 90170</b> Comments: Possible period $p = 25.32d$ .	<b>HIP 90715</b> Ref: 95.703
<b>HIP 90174</b> Ref: 95.445	<b>HIP 90723</b> Ref: 93.093 93.095
<b>HIP 90182</b> Ref: 95.684	<b>HIP 90727</b> Ref: 91.096 91.175 89.069 84.149 80.031 65.005 31.001 22.006 7.001
<b>HIP 90185</b> Ref: 95.313 95.703 94.174 94.311	<b>HIP 90729</b> Ref: 85.193 84.140
<b>HIP 90191</b> Ref: 95.684	<b>HIP 90749</b> Ref: 95.693
<b>HIP 90195</b> Ref: 95.338	<b>HIP 90756</b> Ref: 95.703
<b>HIP 90207</b> Ref: 95.445	<b>HIP 90762</b> Ref: 95.684 76.039
<b>HIP 90225</b> Ref: 30.012 22.006	<b>HIP 90763</b> Ref: 95.684 95.703
<b>HIP 90238</b> Ref: 95.445	<b>HIP 90780</b> Ref: 95.684 94.253
<b>HIP 90241</b> Ref: 85.084 84.087 71.018 51.001 40.003 22.006	<b>HIP 90784</b> Ref: 95.693
<b>HIP 90256</b> Ref: 95.684	<b>HIP 90791</b> Ref: 94.228 90.004 76.025 71.018 66.011 66.015 64.009 61.005 58.001 40.003 22.006
<b>HIP 90260</b> Ref: 95.445	<b>HIP 90797</b> Ref: 95.701 94.311
<b>HIP 90261</b> Ref: 95.445	<b>HIP 90798</b> Ref: 95.693
<b>HIP 90266</b> Ref: 95.703	<b>HIP 90799</b> Ref: 95.693
<b>HIP 90271</b> Ref: 94.209	<b>HIP 90804</b> Ref: 94.357 94.367 93.126
<b>HIP 90281</b> Ref: 95.115 95.693 94.367 94.367 85.074 Comments: According to Ref 85.074 possible period $p = 39.2d$ .	<b>HIP 90806</b> Ref: 95.684 95.703
<b>HIP 90303</b> Ref: 95.659 95.693 94.415 92.058 92.116 88.144 81.010 81.013 80.035 79.017 30.013 22.006	<b>HIP 90811</b> Ref: 95.558 Comments: Possible period $p = 3.095d$ .
<b>HIP 90304</b> Ref: 95.704 95.719 94.174 94.423 93.211 91.102	<b>HIP 90832</b> Ref: 95.445
<b>HIP 90312</b> Ref: 95.430 94.047 94.134 94.269 94.419 93.118 92.081 92.111 89.060	<b>HIP 90836</b> Ref: 95.447 95.450 95.452 94.176 94.177 94.243 94.414 93.146 92.070 92.110 92.205 89.154 88.108 85.054 85.084 84.087 82.056 81.076 80.054 76.025 71.018 68.012 64.009 61.002 58.001 51.001 40.003 22.006 7.001
<b>HIP 90313</b> Ref: 95.081 95.558 93.043 93.092 90.059 Comments: Minimum light in good agreement with ephemeris from Ref 90.059.	<b>HIP 90837</b> Ref: 95.196
<b>HIP 90320</b> Ref: 95.388	<b>HIP 90841</b> Ref: 95.701
<b>HIP 90336</b> Ref: 95.703	<b>HIP 90844</b> Ref: 95.684 83.020
<b>HIP 90337</b> Ref: 95.684	<b>HIP 90850</b> Comments: Possible period $p = 163.0d$ .
<b>HIP 90342</b> Ref: 95.684	<b>HIP 90858</b> Ref: 95.320 95.321 95.684 91.053 84.043 83.061
<b>HIP 90344</b> Ref: 95.062	<b>HIP 90870</b> Ref: 94.414
<b>HIP 90369</b> Ref: 95.693	<b>HIP 90880</b> Comments: Possibly EA type but minima very suspiciously distributed in time: all between JD 2 448 600 and 2 448 800. No other signs of variability.
<b>HIP 90375</b> Ref: 85.174	<b>HIP 90883</b> Ref: 95.361 95.509 95.514 94.418 30.013 22.006 7.001
<b>HIP 90382</b> Ref: 95.412 94.219 85.083 80.014 22.006	<b>HIP 90884</b> Ref: 95.445 95.684
<b>HIP 90402</b> Ref: 94.367	<b>HIP 90887</b> Ref: 95.684
<b>HIP 90420</b> Comments: Possible period $p = 31.79d$ .	<b>HIP 90894</b> Ref: 95.347 94.191 90.024 83.020 Comments: Data inadequate for confirmation of period from Ref 94.191.
<b>HIP 90422</b> Ref: 94.311	<b>HIP 90900</b> Ref: 94.414
<b>HIP 90441</b> Ref: 95.419 95.684 93.092 92.162 85.193 84.140 84.170 30.012 22.006 7.001	<b>HIP 90905</b> Ref: 95.388
<b>HIP 90452</b> Ref: 93.211 91.102	<b>HIP 90906</b> Ref: 95.373 95.374
<b>HIP 90478</b> Ref: 95.684	<b>HIP 90907</b> Ref: 95.693 Comments: Possible period $p = 2.6749d$ .
<b>HIP 90483</b> Comments: Secondary in double system possibly variable too.	<b>HIP 90913</b> Comments: Possible period $p = 11.25d$ .
<b>HIP 90485</b> Ref: 95.445 94.056 93.050	<b>HIP 90936</b> Ref: 95.445
<b>HIP 90487</b> Ref: 94.209	
<b>HIP 90493</b> Ref: 95.692 89.031 88.020 22.006 7.001 Comments: Ephemeris based on AAVSO data.	
<b>HIP 90494</b> Ref: 95.703	
<b>HIP 90496</b> Ref: 95.703	

- HIP 90950** Ref: 95.693 95.703  
Comments: Possible alternative period  $p = 1.16401d$ .
- HIP 90953** Ref: 95.703
- HIP 90957** Ref: 95.445 94.053 94.138 94.188 94.280  
94.389 91.059
- HIP 90967** Ref: 95.684
- HIP 90969** Ref: 95.684
- HIP 90971** Ref: 95.314 95.684
- HIP 90981** Ref: 95.445
- HIP 90991** Ref: 95.684
- HIP 91003** Ref: 95.388 95.693
- HIP 91009** Ref: 95.053 95.229 95.240 95.341 95.583  
95.597 95.694 95.699 94.040 94.265 94.380 94.395  
94.419 94.501 93.001 93.018 93.064 93.118 92.065  
90.104 89.059 87.018 87.094 87.142 87.145 86.013  
86.119  
Comments: Possible period  $p = 3.468d$ .
- HIP 91014** Ref: 95.703
- HIP 91015** Ref: 95.697 71.018 67.012 67.013 67.014  
64.009 60.002  
Comments: Period has decreased.
- HIP 91041** Ref: 95.684
- HIP 91043** Ref: 95.389 95.392 94.265  
Comments: No confirmation of period from Ref  
95.389. Possible period  $p = 1.6898d$ .
- HIP 91046** Ref: 95.693 95.703
- HIP 91058** Ref: 94.188
- HIP 91066** Ref: 95.385
- HIP 91071** Comments: Possible period  $p = 4.988d$ .
- HIP 91083** Ref: 95.703
- HIP 91090** Ref: 95.684
- HIP 91105** Ref: 95.427 85.090
- HIP 91112** Ref: 95.693
- HIP 91113** Ref: 95.388
- HIP 91115** Ref: 94.188
- HIP 91124** Ref: 94.189
- HIP 91130** Ref: 95.693 95.703
- HIP 91132** Ref: 95.347 95.684 95.703 94.191 90.025  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 91135** Comments: Possible period  $p = 3.412d$ .
- HIP 91139** Ref: 95.357 94.206
- HIP 91142** Ref: 94.202 91.053 84.043
- HIP 91143** Ref: 95.693 95.703
- HIP 91170** Ref: 95.701
- HIP 91172** Ref: 95.445
- HIP 91173** Ref: 95.701
- HIP 91182** Ref: 95.445 95.697
- HIP 91185** Ref: 93.211 91.102
- HIP 91196** Ref: 95.684
- HIP 91201** Ref: 95.450 95.452 95.768 94.423 94.496  
93.149 93.211 92.070 85.146 77.040
- HIP 91217** Ref: 93.015
- HIP 91220** Ref: 94.423 93.211
- HIP 91223** Ref: 95.701
- HIP 91224** Ref: 80.033
- HIP 91235** Ref: 95.684 94.028 93.048 93.062 83.033
- HIP 91237** Ref: 95.445
- HIP 91239** Ref: 95.039 95.411 95.447 95.448 95.450  
95.452 94.177 92.070 86.002 85.084 84.087 76.025  
71.018 64.009
- HIP 91250** Ref: 95.193 95.684
- HIP 91260** Comments: Probably wrongly identified with  
CE Lyr.
- HIP 91262** Ref: 95.012 95.020 95.033 95.060 95.074  
95.075 95.076 95.145 95.193 95.233 95.236 95.276  
95.280 95.313 95.347 95.353 95.458 95.489 95.500  
95.523 95.563 95.564 95.581 95.606 95.684 95.686  
95.690 94.028 94.234 94.251 94.265 94.367 94.410  
93.042 93.048 93.062 93.064 93.066 93.097 89.124  
85.225 81.062 81.094 81.108
- HIP 91267** Ref: 95.703
- HIP 91275** Ref: 95.686 22.006
- HIP 91279** Ref: 95.445 94.134
- HIP 91287** Ref: 95.386
- HIP 91292** Comments: Possible period  $p = 2.8104d$ .
- HIP 91312** Ref: 94.414
- HIP 91315** Ref: 95.684
- HIP 91316** Ref: 94.196 30.013 22.006 7.001
- HIP 91322** Ref: 95.684
- HIP 91329** Ref: 84.095
- HIP 91335** Comments: Possible period  $p = 30.139d$ .
- HIP 91342** Ref: 95.452 95.767 94.497 93.149 93.211  
92.178 91.102 91.187 91.210 85.023
- HIP 91347** Ref: 95.684 95.703 83.020
- HIP 91352** Ref: 94.367
- HIP 91359** Ref: 94.120
- HIP 91360** Ref: 95.445
- HIP 91366** Ref: 89.154 88.108 85.084 84.087 76.025  
71.018 66.011 66.015 64.009 61.005 58.001 43.002  
40.003 22.006
- HIP 91373** Ref: 95.419 95.475
- HIP 91389** Ref: 95.387 95.588 94.204 89.031 88.016  
88.020 24.001 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 91394** Ref: 95.445
- HIP 91405** Ref: 95.703
- HIP 91414** Ref: 94.174 94.202
- HIP 91438** Ref: 95.386 95.445
- HIP 91460** Ref: 95.703
- HIP 91461** Ref: 83.020
- HIP 91477** Ref: 94.211
- HIP 91487** Ref: 95.703
- HIP 91491** Ref: 95.684
- HIP 91499** Ref: 94.414
- HIP 91503** Ref: 95.682 94.407
- HIP 91514** Ref: 95.703 94.189
- HIP 91515** Ref: 95.703
- HIP 91525** Ref: 95.684 94.209 90.065
- HIP 91527** Ref: 95.703
- HIP 91532** Ref: 93.211 91.102
- HIP 91550** Ref: 95.693 95.703 84.179
- HIP 91552** Ref: 95.684
- HIP 91553** Ref: 95.701
- HIP 91565** Ref: 95.701
- HIP 91613** Ref: 94.203 81.076 76.025 71.018 64.009  
58.001
- HIP 91615** Ref: 94.202
- HIP 91623** Ref: 95.693
- HIP 91634** Ref: 94.236 71.018 64.009 61.005 60.002  
58.001
- HIP 91636** Ref: 93.092
- HIP 91662** Ref: 95.445
- HIP 91675** Ref: 94.407
- HIP 91677** Ref: 95.693
- HIP 91682** Ref: 95.703
- HIP 91689** Ref: 95.684 95.703 83.020
- HIP 91697** Ref: 95.482 92.070 85.084 84.087 76.025  
71.018 64.009 61.005 58.001 43.002 40.003 22.006
- HIP 91703** Ref: 94.052 94.167  
Comments: About 1.5 mag brighter than expected.  
Other notes: D.
- HIP 91706** Ref: 76.025 71.018 64.009 61.005 58.001  
43.002
- HIP 91725** Ref: 95.693
- HIP 91726** Ref: 95.347 95.483 94.191 93.154 93.254  
91.057 91.167 90.024 84.161 83.020 66.011 66.015  
Comments: Period from Ref 94.191 confirmed.
- HIP 91736** Ref: 95.703
- HIP 91738** Ref: 94.203 85.084 84.087 71.018 64.009  
58.001
- HIP 91751** Ref: 95.062 93.092
- HIP 91755** Ref: 95.684 94.001 94.253
- HIP 91768** Ref: 94.258 94.410 89.059
- HIP 91772** Ref: 94.258 94.410 89.059
- HIP 91774** Ref: 95.509 95.514 94.418
- HIP 91781** Ref: 94.196 94.542 92.011
- HIP 91785** Ref: 95.482 85.084 84.087 76.025 71.018  
66.011 66.015 64.009 61.005 58.001 40.003 22.006
- HIP 91820** Ref: 95.756 93.092

- HIP 91822** Ref: 94.189  
**HIP 91826** Ref: 95.703  
**HIP 91832** Comments: The double-star analysis indicates that it is probably the fainter (B) component which is variable. Other notes: D.  
**HIP 91843** Ref: 95.684 94.209  
**HIP 91845** Ref: 95.062 95.385 95.419  
**HIP 91854** Ref: 95.193  
**HIP 91867** Ref: 85.054 85.084 84.087 82.056 81.076 76.025 71.018 66.011 66.015 64.009 61.002 58.001 51.001 43.002 40.003 22.006  
**HIP 91871** Comments: Possible period  $p = 26.60d$ .  
**HIP 91879** Ref: 86.017  
**HIP 91880** Ref: 95.445 93.075  
**HIP 91899** Ref: 95.701  
**HIP 91910** Ref: 91.097 91.138 91.152 75.033  
**HIP 91919** Ref: 95.684  
**HIP 91926** Ref: 95.684  
**HIP 91929** Ref: 22.006  
**HIP 91946** Ref: 95.704 94.423 93.211 91.102  
**HIP 91957** Ref: 93.211  
**HIP 91960** Ref: 95.704 94.423 93.211  
 Comments: Possible period  $p = 25.0d$ .  
**HIP 91964** Ref: 95.701  
**HIP 91970** Comments: Possible period  $p = 23.84d$ .  
**HIP 91971** Ref: 95.684 93.003  
**HIP 91973** Ref: 95.684  
**HIP 91974** Ref: 95.703  
**HIP 91975** Ref: 94.311  
**HIP 91982** Ref: 95.693  
**HIP 91985** Ref: 93.015  
**HIP 91989** Ref: 93.043  
**HIP 92013** Ref: 95.447 95.452 95.580 95.737 92.110 90.141 89.154 85.054 85.084 84.087 82.056 71.018 64.009 61.002 58.001 51.001  
**HIP 92016** Ref: 95.445  
**HIP 92027** Ref: 95.684  
**HIP 92036** Ref: 95.684 94.139 91.053 84.043 78.038 76.039 71.003  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 92040** Ref: 95.684  
**HIP 92041** Ref: 95.703 94.311  
**HIP 92043** Ref: 95.124 95.379 95.432 95.631 95.658 95.698 93.050 93.075  
**HIP 92055** Ref: 95.412 95.414 90.072 86.005 86.120 82.011 30.013 22.006 7.001  
**HIP 92056** Ref: 95.062  
**HIP 92067** Ref: 86.002 80.068 71.018 67.012 67.013 67.014 64.009 58.001 58.003  
**HIP 92079** Ref: 94.542  
**HIP 92102** Ref: 95.701  
**HIP 92111** Ref: 93.262  
**HIP 92112** Ref: 95.684  
**HIP 92118** Ref: 95.684  
**HIP 92133** Ref: 80.055 80.056 75.020  
**HIP 92142** Comments: Possible period  $p = 23.33d$ .  
**HIP 92150** Ref: 95.704 94.423 93.211 91.102  
**HIP 92152** Ref: 95.703 94.055  
**HIP 92154** Ref: 95.703  
**HIP 92156** Ref: 95.684  
**HIP 92157** Ref: 95.445  
**HIP 92161** Ref: 95.684 76.039  
**HIP 92167** Ref: 95.348 95.445 95.697 93.130  
**HIP 92175** Ref: 95.419 93.043  
**HIP 92177** Ref: 84.149 81.039  
**HIP 92181** Ref: 95.445  
**HIP 92194** Ref: 95.309  
**HIP 92196** Ref: 95.701  
**HIP 92202** Ref: 95.137 95.419 95.704 94.094 94.423 93.211 92.027 91.008 91.027 91.102 90.002 90.008 90.136 89.012 87.066 85.193 84.140 84.170 83.117 81.061 81.106 73.013 30.012 22.006 7.001  
 Comments: No periods recognised for this multi-period RV star.  
**HIP 92207** Ref: 93.211 91.102 90.119 30.013 22.006 7.001  
**HIP 92210** Ref: 95.388  
**HIP 92215** Ref: 95.703  
**HIP 92219** Ref: 95.684  
**HIP 92221** Ref: 95.378 95.697 94.236 94.409 93.128 91.090  
**HIP 92233** Ref: 95.445  
**HIP 92235** Ref: 95.197 95.523 95.690 95.782 94.540 89.170 86.120 77.005  
**HIP 92244** Ref: 95.297 95.697 94.236 94.282 94.286 82.054 77.031 73.024  
**HIP 92269** Ref: 95.684  
**HIP 92294** Ref: 95.445  
**HIP 92312** Ref: 95.684  
**HIP 92316** Ref: 95.144 94.208 94.227 94.546 93.115 93.207 92.094 92.219 91.166 91.199 82.038  
**HIP 92330** Ref: 95.701  
 Comments: Possible period  $p = 3.218d$ .  
**HIP 92340** Ref: 65.005 58.002 22.006  
**HIP 92346** Ref: 95.684  
**HIP 92350** Ref: 95.445  
**HIP 92370** Ref: 95.447 95.450 95.452 93.146 92.110 85.054 85.084 84.087 71.018 64.008 64.009 61.002 58.001 51.001 40.003 22.006  
**HIP 92375** Ref: 95.701  
**HIP 92384** Ref: 95.684  
**HIP 92386** Ref: 95.684  
**HIP 92390** Ref: 85.090  
**HIP 92391** Ref: 95.704 94.423 93.211  
**HIP 92396** Ref: 94.028 93.048 93.062  
**HIP 92403** Ref: 95.341 94.265 89.059  
**HIP 92405** Ref: 95.684  
**HIP 92414** Ref: 95.412 95.414 80.048  
**HIP 92420** Ref: 95.367 95.545 95.615 94.001 94.033 94.066 94.367 94.392 93.007 93.276 92.002 92.057 92.089 92.221 91.061 91.206 90.001 90.155 89.169 89.170 88.009 87.021 87.075 87.076 87.077 87.159 86.141 86.156 85.052 85.193 85.222 85.239 84.140 83.014 83.072 83.118 82.040 82.084 82.094 81.028 81.088 81.089 80.042 80.076 78.017 78.021 77.026 76.033 74.006 74.037 74.038 73.011 31.001 24.004 7.001  
 Comments: New period and zero point agree with Ref 80.076.  
**HIP 92426** Ref: 95.445  
**HIP 92442** Ref: 95.254 95.309 95.361 95.509 94.078 94.151 94.418 93.096 93.112 93.273 92.059 90.014 30.013 22.006 7.001  
**HIP 92452** Ref: 95.697 81.103 71.018 67.012 67.013 67.014 64.009 61.005 58.001 30.013  
**HIP 92470** Ref: 94.189  
**HIP 92478** Ref: 94.480 93.210 93.233 92.115 91.170 87.105 85.124  
**HIP 92480** Ref: 95.684 93.015  
**HIP 92489** Ref: 93.241 92.076 85.048  
 Comments: Ref 93.241: extensive observations overlap with mission.  
**HIP 92491** Ref: 95.447 95.450 95.452 93.146 92.070 92.110 89.154 86.002 85.053 85.054 85.084 84.087 82.056 76.025 71.018 64.009 61.002 61.005 58.001 40.003 22.006  
**HIP 92505** Ref: 85.147  
**HIP 92512** Ref: 95.062 95.702 94.145 94.175 94.216 94.289 94.419 93.015 93.092 93.118 89.060 85.193 84.140  
 Comments: Spectroscopic period reveals shallow eclipses in photometric data.  
**HIP 92517** Ref: 95.347 94.191 90.024 83.020  
 Comments: Possible period  $p = 0.19141d$ .  
**HIP 92524** Ref: 95.684  
**HIP 92532** Ref: 95.087 95.122 95.432 94.043 93.050  
**HIP 92545** Ref: 95.701  
**HIP 92547** Ref: 95.701  
**HIP 92549** Ref: 95.064 94.209

<b>HIP 92550</b> Ref: 95.419	<b>HIP 93124</b> Ref: 95.039 95.411 95.447 95.450 95.452
<b>HIP 92583</b> Ref: 95.701	95.580 95.737 94.299 93.132 93.146 92.110 91.190
<b>HIP 92584</b> Ref: 95.701	90.033 90.081 88.028 88.108 87.106 86.002 85.084
<b>HIP 92593</b> Ref: 91.065 86.132	85.088 85.222 84.087 80.054 77.040 76.021 76.025
Comments: Period from Ref 91.065 confirmed.	71.018 68.012 64.009 61.002 58.001 51.001
<b>HIP 92609</b> Ref: 95.701	Comments: Ref 85.088: binary nature.
<b>HIP 92610</b> Ref: 95.697	<b>HIP 93132</b> Ref: 95.684
<b>HIP 92614</b> Ref: 94.028 94.253 93.048 93.062	<b>HIP 93134</b> Ref: 95.445
<b>HIP 92629</b> Ref: 95.701	<b>HIP 93138</b> Ref: 95.445 95.671 93.015
<b>HIP 92635</b> Ref: 95.445	<b>HIP 93140</b> Ref: 95.684 94.174
<b>HIP 92643</b> Ref: 95.445	<b>HIP 93158</b> Ref: 94.196 22.006
<b>HIP 92645</b> Ref: 95.701	Comments: Possibly wrongly identified with UV Aql.
<b>HIP 92674</b> Ref: 95.445 95.684 76.039	3.5 mag brighter than expected.
<b>HIP 92680</b> Ref: 95.285 93.073 90.104 84.188	<b>HIP 93163</b> Ref: 95.445
<b>HIP 92708</b> Ref: 95.157 95.715 95.757 94.443 94.487	<b>HIP 93174</b> Ref: 93.021 69.006
93.233 91.083 91.096 89.136 87.174 85.057 82.062	<b>HIP 93175</b> Ref: 94.407
<b>HIP 92717</b> Ref: 95.684	<b>HIP 93177</b> Comments: Possible period $p = 1.8590d$ .
<b>HIP 92775</b> Ref: 94.389	<b>HIP 93179</b> Ref: 95.327 95.445 95.684 94.202 92.156
<b>HIP 92781</b> Ref: 95.445	91.017 88.060 86.131 84.043 81.045 76.039
<b>HIP 92782</b> Ref: 93.092	<b>HIP 93185</b> Ref: 95.386
<b>HIP 92791</b> Ref: 95.419 95.475	<b>HIP 93186</b> Ref: 95.697
<b>HIP 92814</b> Ref: 95.137	<b>HIP 93187</b> Ref: 84.043
<b>HIP 92818</b> Ref: 95.356 95.379 95.419 95.558 93.015	<b>HIP 93194</b> Ref: 95.684 94.064
93.092	<b>HIP 93203</b> Ref: 93.075
<b>HIP 92822</b> Ref: 94.289 93.015	<b>HIP 93225</b> Ref: 94.367 76.039
<b>HIP 92833</b> Ref: 95.062 85.090	<b>HIP 93244</b> Ref: 95.331 94.407 93.092
<b>HIP 92835</b> Comments: Period uncertain.	<b>HIP 93267</b> Ref: 95.701
<b>HIP 92845</b> Ref: 95.445 94.175 94.216	<b>HIP 93288</b> Ref: 95.697
<b>HIP 92855</b> Ref: 95.314 94.055 94.390 94.403	<b>HIP 93295</b> Ref: 95.701
<b>HIP 92862</b> Ref: 95.230 95.332 95.419 95.475 95.581	<b>HIP 93299</b> Ref: 93.126
95.661 95.783 94.067 94.204 94.407 92.162 30.012	<b>HIP 93302</b> Ref: 94.189
22.006 7.001	<b>HIP 93359</b> Comments: Possible period $p = 2.2212d$ .
<b>HIP 92865</b> Ref: 95.388 91.096 81.043	<b>HIP 93373</b> Ref: 95.445
<b>HIP 92871</b> Ref: 95.341 93.118 92.187 89.015 89.059	<b>HIP 93378</b> Ref: 95.701
88.092	<b>HIP 93381</b> Ref: 95.206
<b>HIP 92872</b> Ref: 94.175 94.216 93.092	<b>HIP 93399</b> Ref: 90.004 81.076 80.068 76.025 71.018
<b>HIP 92874</b> Ref: 43.002 30.013 22.006 7.001	64.009 61.005 58.001
<b>HIP 92882</b> Ref: 95.298 94.056 93.050	<b>HIP 93408</b> Ref: 95.684
<b>HIP 92899</b> Ref: 95.701	<b>HIP 93425</b> Ref: 94.014 94.211 93.070 93.211
<b>HIP 92904</b> Ref: 76.039	<b>HIP 93426</b> Ref: 94.256
<b>HIP 92918</b> Ref: 95.445	<b>HIP 93429</b> Ref: 85.090
<b>HIP 92919</b> Ref: 95.124 95.702 94.265 94.419 93.118	<b>HIP 93443</b> Ref: 95.684
92.064 92.065 92.111 90.037 89.060 84.104 79.024	<b>HIP 93449</b> Ref: 95.169 95.189 94.004 94.014 94.030
Comments: Possible period $p = 2.9461d$ . Slightly	94.211 94.405 94.411 30.012 22.006 7.001
longer than spectroscopic period.	<b>HIP 93476</b> Ref: 82.041 82.054 77.031
<b>HIP 92924</b> Ref: 95.701	Comments: Light curve appears like an RRab,
<b>HIP 92934</b> Ref: 91.053 84.043	although the literature names it an RRc.
<b>HIP 92937</b> Ref: 94.407	<b>HIP 93502</b> Ref: 95.191 91.030 76.039
<b>HIP 92946</b> Ref: 95.684 94.216 94.407	<b>HIP 93506</b> Ref: 95.684 94.311
<b>HIP 92951</b> Ref: 95.684	Comments: The double-star analysis indicates that
<b>HIP 92960</b> Ref: 95.445 94.188	it is probably the fainter (B) component which is
<b>HIP 92963</b> Ref: 95.194 95.684 94.028 93.048 93.062	variable. Other notes: D.
76.039	<b>HIP 93507</b> Ref: 95.122 94.043
<b>HIP 92964</b> Ref: 95.701	<b>HIP 93509</b> Ref: 94.406
<b>HIP 92968</b> Ref: 85.090	<b>HIP 93515</b> Ref: 95.704 94.423 93.211 91.102
<b>HIP 92989</b> Ref: 95.014 95.314 95.320 95.321 94.182	<b>HIP 93526</b> Ref: 95.137 95.498 95.684
92.044 91.053 85.037 84.043	<b>HIP 93537</b> Ref: 95.558
Comments: Period from Ref 84.043 confirmed.	<b>HIP 93543</b> Ref: 95.445 95.498
<b>HIP 93015</b> Ref: 92.205 71.018 64.009 61.002 58.001	<b>HIP 93545</b> Ref: 95.701
58.003 22.006 7.001	<b>HIP 93552</b> Ref: 95.347 95.445 94.191 90.025
<b>HIP 93017</b> Ref: 95.671 94.257 93.064	Comments: Possible period $p = 0.14120d$ .
<b>HIP 93026</b> Ref: 95.433 94.407	<b>HIP 93574</b> Ref: 95.445
<b>HIP 93051</b> Ref: 76.039	<b>HIP 93580</b> Ref: 95.684
<b>HIP 93053</b> Ref: 93.015	<b>HIP 93585</b> Ref: 95.701
<b>HIP 93057</b> Ref: 95.523 95.684 95.690	<b>HIP 93595</b> Ref: 94.047 81.043
<b>HIP 93058</b> Ref: 95.701	<b>HIP 93603</b> Ref: 95.347 95.483 94.191 93.183 90.024
<b>HIP 93063</b> Ref: 82.035 71.018 64.009 58.001	88.027 84.029
<b>HIP 93068</b> Ref: 95.684	<b>HIP 93605</b> Ref: 95.230 94.196 30.013 22.006 7.001
<b>HIP 93097</b> Ref: 95.684	<b>HIP 93626</b> Ref: 95.111 95.311 95.312
<b>HIP 93118</b> Ref: 95.388 89.034	<b>HIP 93637</b> Ref: 95.701
	<b>HIP 93647</b> Ref: 95.684
	<b>HIP 93648</b> Ref: 94.174
	<b>HIP 93666</b> Ref: 95.361 95.509 94.196 94.418 30.013
	22.006 7.001
	<b>HIP 93667</b> Ref: 95.220

- HIP 93681** Ref: 95.447 95.450 95.482 93.146 92.070  
91.190 85.084 84.087 81.103 76.025 71.018 64.009  
58.001 51.001 40.003 22.006
- HIP 93713** Ref: 95.684 94.209
- HIP 93719** Ref: 95.701
- HIP 93724** Comments: Period may be spurious.
- HIP 93727** Ref: 85.074  
Comments: Confirmation of period from Ref 85.074.
- HIP 93743** Ref: 95.445 95.684
- HIP 93747** Ref: 95.684
- HIP 93763** Ref: 95.684 94.253 85.042 85.045  
Comments: Period from Ref 85.045 not confirmed.
- HIP 93784** Ref: 95.701
- HIP 93785** Ref: 94.189 90.128 86.103
- HIP 93805** Ref: 95.634 95.684
- HIP 93809** Ref: 91.096 81.084
- HIP 93817** Ref: 95.389 95.392  
Comments: No confirmation of period from Ref 95.389.
- HIP 93820** Ref: 95.181 95.201 95.387 95.588 94.204  
94.290 94.379 94.413 93.081 88.020 86.141 85.222  
80.003 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 93825** Ref: 94.257
- HIP 93838** Ref: 95.701
- HIP 93843** Ref: 95.684
- HIP 93844** Ref: 95.704 94.105 94.423 93.002 93.211  
91.102 86.026 83.027 82.026 80.013 77.014 70.010
- HIP 93845** Ref: 95.684
- HIP 93855** Ref: 95.642 76.039
- HIP 93858** Ref: 95.298 95.386 95.445 94.056 93.050
- HIP 93864** Ref: 94.175 94.216
- HIP 93867** Ref: 85.074 30.013  
Comments: According to Ref 85.074 possible period  $p = 1.30227d$ .
- HIP 93871** Ref: 95.445
- HIP 93872** Ref: 95.558
- HIP 93883** Ref: 93.211 91.102
- HIP 93884** Ref: 94.055
- HIP 93887** Ref: 85.003  
Comments: Period from Ref 85.003 not confirmed.
- HIP 93892** Ref: 94.278
- HIP 93904** Ref: 85.187
- HIP 93907** Comments: Period may be half.
- HIP 93909** Ref: 95.701
- HIP 93917** Ref: 95.684
- HIP 93918** Ref: 95.701
- HIP 93926** Ref: 95.694 95.702 94.040 94.145 94.265  
94.419 93.064 93.118 92.111 89.060 85.193  
Comments: Photometric period 0.5 per cent longer than spectroscopic period.
- HIP 93934** Ref: 94.189
- HIP 93955** Ref: 94.280
- HIP 93966** Ref: 95.445 95.671 94.188 85.193 84.140  
Comments: According to Ref 95.671 possible period  $p = 22d$ .
- HIP 93987** Comments: Variations on time scale of 500d.
- HIP 93990** Ref: 95.447 95.450 95.482 93.146 92.110  
91.190 88.108 86.044 86.066 85.084 84.087 82.080  
81.076 81.103 80.054 76.025 71.018 64.009 61.002  
58.001 51.001 40.003 22.006
- HIP 93996** Ref: 86.042
- HIP 94004** Ref: 95.447 95.450 94.299 92.110 89.154  
88.108 85.054 85.084 84.087 82.056 81.076 76.025  
71.018 61.002 58.001 58.003 43.001  
Comments: Appears double from AC-DC comparison.
- HIP 94013** Ref: 95.583 95.694 95.702 94.040 94.134  
94.145 94.157 94.175 94.216 94.419 93.118 92.111  
89.060 89.100 89.149 86.151 85.193 84.140 84.170  
82.047  
Comments: Possible period  $p = 1.7862d$ .
- HIP 94034** Ref: 95.445
- HIP 94035** Ref: 95.701
- HIP 94047** Ref: 95.701
- HIP 94053** Ref: 95.445
- HIP 94056** Ref: 94.206
- HIP 94068** Ref: 96.002 96.007
- HIP 94083** Ref: 93.075
- HIP 94094** Ref: 95.447 95.450 93.146 93.190 91.190  
90.150 88.108 85.054 85.084 84.087 80.068 76.025  
71.018 64.009 61.002 58.001 51.001
- HIP 94103** Ref: 95.499 93.211 91.102
- HIP 94114** Ref: 95.684
- HIP 94134** Ref: 95.378 95.697 94.236 94.409 93.111  
93.128 91.090 66.008 66.024
- HIP 94135** Ref: 94.189
- HIP 94140** Ref: 95.684
- HIP 94141** Ref: 95.385
- HIP 94142** Ref: 94.406
- HIP 94150** Ref: 95.445
- HIP 94162** Ref: 22.006
- HIP 94196** Ref: 95.441 95.442 95.697
- HIP 94198** Ref: 95.701
- HIP 94260** Ref: 94.211
- HIP 94280** Ref: 95.684
- HIP 94311** Ref: 95.684 91.053 84.043 80.015
- HIP 94335** Ref: 92.076 91.096 89.097 86.047 84.149  
80.048
- HIP 94336** Ref: 94.257
- HIP 94346** Ref: 94.406
- HIP 94376** Ref: 95.062 85.090
- HIP 94377** Comments: Possibly E type.
- HIP 94379** Ref: 95.701
- HIP 94382** Ref: 95.684
- HIP 94402** Ref: 95.447 95.450 94.299 93.146 90.150  
88.108 88.134 85.054 85.084 84.087 81.076 80.068  
76.025 71.018 64.009 61.002 58.001 51.001
- HIP 94407** Ref: 95.629 94.189 93.091
- HIP 94432** Ref: 95.701
- HIP 94436** Ref: 94.406
- HIP 94438** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 94449** Ref: 94.188
- HIP 94458** Ref: 95.704 94.423 93.211 91.102
- HIP 94477** Ref: 94.028 93.048 93.062 90.065 84.043  
76.039
- HIP 94478** Ref: 96.002 96.007 95.684
- HIP 94489** Ref: 94.196 30.013 22.006 7.001
- HIP 94495** Ref: 95.701
- HIP 94496** Ref: 95.137 95.465 95.471 94.120 94.235  
Comments: Probably not a point source, AC-DC almost constant at 0.3 mag. Possible period  $p = 10.39d$ .
- HIP 94499** Ref: 76.039
- HIP 94542** Ref: 95.701
- HIP 94570** Ref: 95.445
- HIP 94598** Ref: 93.211 91.102
- HIP 94604** Ref: 95.684
- HIP 94605** Ref: 22.006
- HIP 94620** Ref: 95.684
- HIP 94624** Ref: 95.419 95.445
- HIP 94639** Comments: Possible period  $p = 1.9331d$ .
- HIP 94645** Ref: 95.445
- HIP 94648** Ref: 95.331 95.390 94.407 85.090
- HIP 94669** Ref: 91.102
- HIP 94679** Ref: 73.021
- HIP 94685** Ref: 95.247 95.731 95.766 94.171 94.301  
92.110 90.138 86.007 84.094 82.014 81.019 81.074  
80.004 80.066 80.073 80.074 80.075
- HIP 94694** Ref: 86.130
- HIP 94706** Ref: 95.303 95.309 95.499 95.567 95.692  
95.704 94.423 93.093 93.095 88.020 77.027 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 94712** Ref: 95.558
- HIP 94713** Ref: 95.385 95.419 95.625
- HIP 94724** Ref: 83.020
- HIP 94727** Ref: 96.002 96.007 95.684

- HIP 94730** Ref: 95.142 95.289 95.424 95.445 95.529  
95.704 94.336 93.211 92.162 91.003 91.102 90.119  
87.102 84.059 82.073 75.006 30.012 22.006 7.001  
Comments: Long-term variations ( $> 1000d$ ).
- HIP 94735** Ref: 95.704 94.423 93.211 91.102
- HIP 94738** Ref: 93.081 88.020 81.016 77.027 22.006  
7.001
- HIP 94740** Ref: 93.126
- HIP 94743** Comments: Possibly E type.
- HIP 94747** Ref: 94.189
- HIP 94755** Ref: 95.399 95.432 93.050
- HIP 94761** Ref: 94.410
- HIP 94774** Ref: 95.412  
Comments: Possibly wrongly identified with V342  
Aql.
- HIP 94782** Ref: 95.701
- HIP 94789** Ref: 95.684
- HIP 94812** Ref: 94.209
- HIP 94822** Ref: 95.669 89.101 85.111 77.005 24.004  
22.006
- HIP 94827** Ref: 75.016
- HIP 94833** Ref: 95.684
- HIP 94834** Ref: 95.684
- HIP 94839** Ref: 94.189
- HIP 94852** Ref: 95.684
- HIP 94855** Ref: 95.704 94.423 93.211
- HIP 94858** Ref: 95.445
- HIP 94868** Ref: 95.701
- HIP 94869** Ref: 95.297 94.236 93.116
- HIP 94885** Ref: 95.419
- HIP 94899** Ref: 95.701
- HIP 94910** Ref: 95.197 95.412 95.640 95.669 94.001  
94.170 93.131 91.080 90.122 85.227 84.149 77.005  
65.005 26.003 24.004 22.006 7.001
- HIP 94913** Ref: 95.062 94.036 94.148
- HIP 94916** Ref: 95.445 93.211 91.102 86.130
- HIP 94926** Ref: 93.211 91.102
- HIP 94929** Ref: 95.445 94.407
- HIP 94931** Ref: 94.188
- HIP 94932** Ref: 95.684 94.028 93.048 93.062
- HIP 94934** Ref: 93.126
- HIP 94937** Comments: Possible period  $p = 6.573d$ .
- HIP 94957** Ref: 95.701
- HIP 94959** Ref: 86.130
- HIP 94962** Ref: 93.126  
Comments: According to Ref 93.126 possible period  
 $p = 2.451d$ .
- HIP 94964** Ref: 95.193 95.697
- HIP 94969** Comments: Possible period  $p = 7.101d$ .
- HIP 94974** Ref: 95.684
- HIP 94982** Ref: 95.347 95.483 95.684 94.191 90.024  
88.027 83.020 82.063  
Comments: Period from Ref 94.191 confirmed.
- HIP 94986** Ref: 95.154
- HIP 94993** Ref: 94.028 93.003 93.048 93.062
- HIP 95002** Ref: 95.684
- HIP 95013** Ref: 95.701
- HIP 95024** Ref: 95.509 94.418 88.020 22.006 7.001  
Comments: Wrongly identified as U Lyr in  
Hipparcos Input Catalogue. Other notes: G.
- HIP 95040** Ref: 95.558
- HIP 95045** Ref: 86.103
- HIP 95050** Ref: 95.701
- HIP 95059** Ref: 94.188
- HIP 95063** Comments: Possible period  $p = 25.97d$ .
- HIP 95066** Ref: 95.062 94.134 94.175 94.216 93.092  
89.060
- HIP 95077** Ref: 95.684
- HIP 95081** Ref: 95.684
- HIP 95082** Ref: 95.338  
Comments: Possible periods  $p = 2.3327d$  and  
 $p = 2.5930d$ .
- HIP 95099** Ref: 95.389 95.392  
Comments: No confirmation of period from Ref  
95.389.
- HIP 95109** Ref: 94.209
- HIP 95118** Ref: 93.146 85.084 84.087 81.076 80.068  
76.025 71.018 64.009 58.001
- HIP 95126** Ref: 95.445
- HIP 95149** Ref: 95.064 95.445 93.211 91.102
- HIP 95154** Ref: 95.361 95.509 94.418 84.089 22.006  
Comments: Possible period  $p = 182.0d$ .
- HIP 95159** Ref: 85.003  
Comments: Period from Ref 85.003 not confirmed.
- HIP 95163** Ref: 77.005 65.005 64.013 24.003 24.004  
22.006
- HIP 95167** Ref: 95.684
- HIP 95168** Ref: 95.347 95.483 95.684 94.191 90.024  
83.020  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 95173** Ref: 94.196 22.006 7.001
- HIP 95176** Ref: 95.306 95.684 95.704 94.367 94.423  
93.211 93.268 91.102 86.156 79.016  
Comments: Possible period  $p = 35.91d$ .
- HIP 95188** Ref: 95.704 94.423 93.211 91.102
- HIP 95217** Ref: 95.445
- HIP 95222** Ref: 95.445
- HIP 95226** Comments: Possible period  $p = 1.6436d$ .
- HIP 95241** Ref: 95.314 94.311
- HIP 95244** Ref: 95.300 93.073 93.092 93.118 92.111  
90.059  
Comments: Possible period  $p = 8.889d$ .
- HIP 95252** Comments: Possible period  $p = 1.2820d$ .
- HIP 95253** Ref: 95.445 95.671 93.075
- HIP 95258** Ref: 95.701
- HIP 95260** Ref: 94.248 91.193
- HIP 95261** Ref: 95.684
- HIP 95262** Ref: 95.087 95.122 95.445 94.043
- HIP 95266** Ref: 95.444 94.175 94.216 91.141 90.059
- HIP 95281** Ref: 93.211 91.102
- HIP 95287** Ref: 95.445 95.684
- HIP 95289** Ref: 93.211 91.102
- HIP 95291** Ref: 95.682
- HIP 95294** Ref: 93.015
- HIP 95306** Ref: 95.106
- HIP 95313** Comments: The double-star analysis indicates  
that it may be the fainter (B) component which is  
variable. Other notes: D.
- HIP 95319** Ref: 95.386
- HIP 95320** Comments: Possible period  $p = 25.72d$ .
- HIP 95333** Ref: 95.433 95.445 95.697
- HIP 95342** Ref: 93.092
- HIP 95347** Ref: 94.311
- HIP 95351** Ref: 95.701
- HIP 95352** Ref: 93.015
- HIP 95355** Comments: The identification of this star with  
V335 Vul is not correct (IBVS 3840,1993).
- HIP 95385** Ref: 95.701
- HIP 95392** Ref: 94.048
- HIP 95398** Ref: 95.445 95.684 83.020
- HIP 95409** Comments: Possible period  $p = 11.386d$ .
- HIP 95413** Ref: 95.106 95.123 95.324 95.447 95.449  
95.650 95.722 95.760 94.087 94.146 94.181 94.197  
94.404 94.482 94.505 93.143 93.218 92.056 92.122  
92.127 92.160 92.162 92.163 92.173 90.006 90.089  
90.103 90.157 89.065 89.073 89.088 89.092 88.062  
88.074 86.019 86.071 86.096 86.101 86.128 85.149  
85.150 85.222 84.112 83.119 82.096 71.001
- HIP 95435** Ref: 95.445
- HIP 95445** Ref: 95.445
- HIP 95447** Ref: 95.249 95.445 95.644 95.671 94.188  
94.256 94.407 93.015
- HIP 95453** Ref: 95.684
- HIP 95456** Ref: 95.445
- HIP 95463** Ref: 95.701
- HIP 95477** Ref: 95.684
- HIP 95487** Ref: 95.684
- HIP 95492** Ref: 94.188

- HIP 95497** Ref: 95.180 95.378 95.379 95.697 94.236  
94.282 94.286 94.409 93.128 88.132 87.172 86.141  
85.222 85.228 81.073 55.002 49.001 40.003 35.001  
32.002 30.013 22.005 22.006 7.001
- HIP 95501** Ref: 95.684 94.248
- HIP 95502** Ref: 95.701
- HIP 95517** Ref: 95.701
- HIP 95520** Ref: 94.202 88.066
- HIP 95537** Comments: Possible period  $p = 36.10d$ .
- HIP 95543** Comments: Period may be double.
- HIP 95556** Ref: 95.684 94.202 91.053 84.043 80.015
- HIP 95558** Ref: 95.515
- HIP 95560** Ref: 95.684
- HIP 95574** Ref: 95.684
- HIP 95578** Comments: Period may be double.
- HIP 95585** Ref: 95.338
- HIP 95592** Comments: Possible period  $p = 6.308d$ .
- HIP 95611** Comments: Period possibly incorrect but related to proper period.
- HIP 95656** Ref: 95.684
- HIP 95657** Ref: 95.022 95.146 95.296 95.528 76.039
- HIP 95672** Ref: 95.723 74.036 22.006  
Comments: Ephemeris based on AAVSO data. Other notes: G.
- HIP 95675** Ref: 95.701
- HIP 95702** Ref: 95.378 95.697 94.236 94.409 93.128  
66.008 66.024
- HIP 95714** Ref: 93.073 93.092 93.118  
Comments: Possible period  $p = 3.650d$ .
- HIP 95716** Comments: Possible period  $p = 72.57d$ .
- HIP 95727** Ref: 95.445
- HIP 95732** Ref: 95.704 94.209 94.423 93.211 91.102
- HIP 95748** Comments: Possible period  $p = 5.158d$ .
- HIP 95755** Ref: 94.532
- HIP 95771** Ref: 94.204 92.133
- HIP 95777** Ref: 94.196 22.006
- HIP 95793** Ref: 95.033 95.060 95.150 95.684 95.704  
94.046 94.209 94.423 94.458 93.026 93.211 91.102
- HIP 95808** Ref: 93.092
- HIP 95812** Ref: 94.209
- HIP 95816** Ref: 93.282
- HIP 95818** Ref: 76.039
- HIP 95819** Ref: 95.701
- HIP 95820** Ref: 95.447 95.450 95.452 95.580 94.387  
93.146 92.110 89.154 88.108 87.161 86.002 85.054  
85.084 84.087 80.054 76.025 71.018 68.012 64.009  
61.002 58.001 51.001 40.003 22.006 7.001
- HIP 95822** Ref: 95.062 95.526 93.211 91.102
- HIP 95823** Ref: 95.684
- HIP 95841** Ref: 95.701
- HIP 95853** Ref: 95.684
- HIP 95898** Ref: 95.419
- HIP 95902** Ref: 95.230 94.196 30.013 22.006
- HIP 95905** Ref: 95.445
- HIP 95929** Ref: 95.143 95.684 95.704 94.179 94.403  
94.423 93.211 91.102 89.064
- HIP 95932** Ref: 95.445
- HIP 95935** Ref: 93.144
- HIP 95937** Ref: 92.133
- HIP 95940** Ref: 95.701
- HIP 95947** Ref: 95.419 93.043
- HIP 95951** Ref: 94.403
- HIP 95965** Ref: 95.684
- HIP 95995** Ref: 94.206 83.109
- HIP 96003** Ref: 95.062 95.430 95.694 95.702 94.047  
94.134 94.145 94.419 93.092 93.118 89.060 85.159  
85.193 84.140 84.170  
Comments: Possible reflection of spectroscopic period in photometric data.
- HIP 96007** Ref: 81.107
- HIP 96024** Ref: 93.211 91.102
- HIP 96031** Comments: Ephemeris based on AAVSO data.
- HIP 96062** Ref: 94.188
- HIP 96065** Comments: Possible period  $p = 7.80d$ .
- HIP 96090** Ref: 95.701
- HIP 96099** Ref: 95.433 95.445
- HIP 96100** Ref: 95.399 95.475 95.631 95.638 95.644  
95.661 95.666 95.666 95.671 95.698 94.407 94.410  
94.537
- HIP 96101** Ref: 95.297 95.378 95.379 95.697 94.236  
94.282 94.286 93.128 89.024 82.054 77.031
- HIP 96111** Comments: Possible period  $p = 3.578d$ .
- HIP 96112** Ref: 95.378 95.697 95.726 94.236 94.409  
93.128 91.090 89.123 88.087 88.121 86.141 85.220  
85.222 66.008 53.001 50.002 30.013 22.006 7.001  
Comments: Ref 53.001 has discussion on secondary periods.
- HIP 96115** Ref: 95.087 95.122 95.193 94.043 94.346
- HIP 96124** Ref: 95.445
- HIP 96130** Ref: 94.189
- HIP 96141** Ref: 95.684 83.020
- HIP 96159** Ref: 94.052
- HIP 96176** Comments: Possible period  $p = 18.83d$ .
- HIP 96177** Ref: 94.202
- HIP 96178** Ref: 95.445 95.684 91.053 85.042 85.045  
84.043  
Comments: Period from Ref 85.045 not confirmed.
- HIP 96185** Ref: 95.193 95.374 95.432 94.188 94.256  
93.050
- HIP 96195** Ref: 95.684
- HIP 96196** Ref: 95.704 94.179 94.423 93.211 91.102  
82.068 75.015
- HIP 96198** Ref: 95.419 95.499 93.095 92.133  
Comments: Possible period  $p = 40.49d$ .
- HIP 96204** Ref: 95.332
- HIP 96229** Ref: 95.390 95.644 94.407
- HIP 96234** Ref: 95.684 84.144 83.050  
Comments: New period determined using data from Hipparcos and Ref 83.050.
- HIP 96238** Ref: 95.704 94.423
- HIP 96248** Ref: 95.445 95.697 93.130
- HIP 96255** Ref: 95.084 95.361 94.196 30.013 22.006  
7.001
- HIP 96258** Ref: 93.075
- HIP 96275** Ref: 76.039
- HIP 96280** Ref: 94.175 94.216
- HIP 96286** Ref: 95.684
- HIP 96288** Ref: 95.684
- HIP 96292** Ref: 94.194 94.202 91.053 84.043 84.113  
82.031 78.040  
Comments: Period from Ref 84.043 confirmed.
- HIP 96295** Ref: 95.036 95.435 95.679
- HIP 96302** Ref: 95.684 94.513
- HIP 96327** Ref: 94.407 93.211 91.102
- HIP 96333** Ref: 95.445
- HIP 96349** Ref: 95.726  
Comments: Period has increased.
- HIP 96351** Ref: 94.209 93.015
- HIP 96362** Ref: 94.202 91.053 88.066 84.043
- HIP 96378** Ref: 95.445
- HIP 96379** Ref: 95.445
- HIP 96396** Ref: 95.062
- HIP 96402** Ref: 95.445
- HIP 96406** Ref: 95.684 83.020
- HIP 96416** Ref: 95.684
- HIP 96428** Ref: 93.211 91.102
- HIP 96440** Ref: 95.684 94.191 92.092  
Comments: Possible period  $p = 0.05650d$ .
- HIP 96441** Ref: 95.379 95.631 95.658 94.248 93.075
- HIP 96458** Ref: 95.447 95.450 94.177 93.146 92.110  
91.190 85.084 84.087 81.076 80.068 71.018 64.009  
61.005 58.001 40.003 22.006 7.001
- HIP 96467** Ref: 95.430 95.694 95.702 94.047 94.134  
94.145 94.419 93.092 93.118 89.060 87.038 85.074  
Comments: Photometric period equal to spectroscopic period.
- HIP 96468** Ref: 94.311
- HIP 96481** Ref: 95.338 95.419
- HIP 96483** Ref: 95.112 95.683 94.357 94.367 94.367  
94.370



- HIP 96499** Ref: 94.406  
**HIP 96508** Ref: 95.383 95.433 95.445 95.691 95.697 94.095 93.130  
**HIP 96515** Comments: Red double star processed as single. Companion about 9 arcsec distant.  
**HIP 96530** Ref: 95.347 94.191 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 96547** Comments: Possible period  $p = 0.99544d$ .  
**HIP 96556** Ref: 95.704 94.423 93.015 93.211 91.102  
**HIP 96580** Ref: 95.588 94.412 89.031 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 96581** Ref: 94.236  
**HIP 96596** Ref: 95.447 94.301 91.190 85.084 84.087 80.068 76.026  
**HIP 96599** Ref: 95.259 95.348 95.697 94.407 93.130  
**HIP 96601** Ref: 95.062  
**HIP 96620** Ref: 95.313 94.487 93.233 91.096 87.017 87.108 86.141 85.050 84.001 81.055 75.029  
**HIP 96630** Ref: 76.039  
**HIP 96644** Ref: 91.053 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 96647** Ref: 94.379 93.081 89.031 88.020  
 Comments: Ephemeris based on AAVSO data.  
**HIP 96665** Ref: 94.311 87.086 76.039  
**HIP 96683** Ref: 95.062 94.289 93.092  
**HIP 96688** Ref: 95.419  
**HIP 96693** Ref: 95.684  
**HIP 96714** Ref: 93.073 93.092 93.118 92.111 92.195 90.059 89.060 87.110  
 Comments: Period from Ref 90.059 confirmed.  
**HIP 96720** Ref: 95.388  
**HIP 96721** Ref: 95.347 95.445 94.191 94.202 90.024 82.072  
**HIP 96725** Ref: 95.445  
**HIP 96729** Ref: 95.684  
**HIP 96739** Ref: 84.017 83.050  
 Comments: Period from Ref 83.050 confirmed.  
**HIP 96757** Ref: 95.419 94.175 94.216 94.289 93.015  
**HIP 96773** Ref: 95.684  
**HIP 96789** Ref: 95.684 94.357 94.407 76.039  
**HIP 96807** Ref: 95.684  
**HIP 96836** Ref: 95.509 95.686 94.078 94.196 94.418 90.014 85.221 22.006 7.001  
 Comments: Possible period  $p = 189d$ .  
**HIP 96837** Ref: 95.062 95.390 94.209 93.015  
**HIP 96840** Ref: 94.206 76.039 72.017  
**HIP 96856** Ref: 95.419  
**HIP 96873** Comments: Possible period  $p = 17.65d$ .  
**HIP 96895** Ref: 95.041 95.163 95.193 95.383 95.399 95.631 95.644 95.658 94.256 94.257 94.407 93.068  
**HIP 96896** Ref: 95.704 94.423 93.211 91.102  
**HIP 96901** Ref: 95.163 95.193 95.383 95.399 95.631 95.644 95.658 94.256 94.257 94.407 93.050 93.068  
**HIP 96907** Ref: 95.684 94.206  
**HIP 96919** Ref: 94.204  
 Comments: Possible period  $p = 68.8d$ .  
**HIP 96931** Ref: 94.028 93.048 93.062 76.039  
**HIP 96950** Ref: 95.684 93.015  
**HIP 96957** Ref: 94.206  
**HIP 96967** Ref: 95.347  
**HIP 96977** Ref: 95.684  
**HIP 96979** Ref: 94.406  
**HIP 96988** Ref: 95.347 95.483 95.684 94.191 93.015 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 96989** Comments: Possible period  $p = 1.0995d$ .  
**HIP 96997** Ref: 95.137  
**HIP 97016** Ref: 94.406  
**HIP 97028** Ref: 95.684  
**HIP 97032** Ref: 94.432  
**HIP 97063** Ref: 93.015  
**HIP 97068** Ref: 91.002 88.020 86.141 85.222 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 97087** Ref: 95.338 94.209  
**HIP 97101** Ref: 94.406  
**HIP 97118** Ref: 95.419 94.209 93.015  
**HIP 97122** Ref: 95.684  
**HIP 97135** Comments: Possible period  $p = 6.524d$ .  
**HIP 97144** Ref: 95.445 94.406  
**HIP 97150** Ref: 95.447 95.580 93.190 92.110 91.190 90.051 88.047 88.108 87.171 86.141 85.084 85.222 84.030 84.087 80.054 77.040 71.018 68.012 64.009 58.001 51.001 40.003 22.006 7.001  
**HIP 97151** Ref: 94.196 92.162  
**HIP 97162** Ref: 95.004  
**HIP 97163** Ref: 95.704 94.423  
**HIP 97165** Ref: 95.684 94.314  
**HIP 97192** Ref: 95.441 95.442 95.445 95.697  
**HIP 97209** Ref: 95.146 94.367  
**HIP 97228** Ref: 95.684  
**HIP 97229** Ref: 95.684 76.039  
**HIP 97232** Ref: 95.684  
**HIP 97235** Ref: 91.106 90.118  
 Comments: Possible period  $p = 13.86d$ .  
**HIP 97242** Ref: 95.419  
**HIP 97246** Ref: 92.143  
**HIP 97278** Ref: 95.062 95.419 95.465 95.698  
**HIP 97280** Ref: 95.388  
**HIP 97281** Ref: 85.141  
**HIP 97290** Ref: 95.137  
**HIP 97292** Ref: 95.688 94.258  
**HIP 97295** Ref: 95.399 95.432 95.658 95.671 93.050 93.064  
**HIP 97296** Ref: 22.006  
**HIP 97307** Ref: 95.004  
**HIP 97309** Ref: 95.447 90.004  
 Comments: About 1.4 mag brighter than expected.  
**HIP 97319** Ref: 95.684  
**HIP 97322** Comments: No periodicity detected. The double-star analysis indicates that it is the fainter (B) component which is variable. Other notes: D.  
**HIP 97326** Ref: 95.347 95.684 94.191 90.024  
 Comments: Possible periods  $p = 0.1501d$  and  $p = 0.10095d$ .  
**HIP 97351** Comments: Possible period  $p = 8.405d$ .  
**HIP 97365** Ref: 95.419 95.422 93.043 90.097 89.096 89.106  
**HIP 97371** Ref: 94.280  
**HIP 97372** Ref: 95.684  
**HIP 97376** Ref: 76.039  
**HIP 97384** Ref: 94.406  
**HIP 97394** Ref: 95.085 95.113 95.651 95.656 94.011 94.208 93.115 92.203 90.131 89.076 84.069 82.059  
**HIP 97420** Ref: 94.289  
**HIP 97421** Ref: 95.684 83.020  
**HIP 97423** Ref: 95.684  
**HIP 97425** Ref: 95.196  
**HIP 97433** Ref: 93.015  
**HIP 97439** Ref: 93.146 93.212 86.002 77.040 76.026  
**HIP 97456** Ref: 95.055 95.111 95.301 94.015 94.022  
**HIP 97458** Ref: 95.704 94.423 93.211 91.102  
**HIP 97465** Ref: 94.196 30.013  
**HIP 97468** Ref: 95.433 95.445 95.697 94.095 93.130  
**HIP 97472** Ref: 86.120 80.056 79.046 76.039  
 Comments: Period and light curve from Ref 79.046 confirmed.  
**HIP 97473** Ref: 94.206  
**HIP 97477** Ref: 94.209  
**HIP 97485** Ref: 95.157 94.124 93.033 91.096 91.098 84.007 81.114 78.049  
 Comments: Period from Ref 84.007.  
**HIP 97496** Ref: 95.004 94.206  
**HIP 97500** Comments: Possibly EA type.  
**HIP 97515** Ref: 95.445  
**HIP 97534** Ref: 95.684 83.020

- HIP 97538** Ref: 93.015  
**HIP 97572** Ref: 76.039  
**HIP 97586** Ref: 95.230 94.167 94.379  
 Comments: Range of variations smaller than expected.
- HIP 97594** Ref: 94.168 94.197 94.404 89.057 85.099  
 85.113 85.150 84.004 83.077 81.031  
 Comments: Ephemeris based on AAVSO data.
- HIP 97598** Ref: 94.542  
**HIP 97629** Ref: 96.010 95.065 95.303 95.319 95.491  
 95.509 95.518 95.581 95.588 95.598 95.680 94.273  
 93.093 93.095 86.062 86.141 85.222 85.235 83.124  
 82.064 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 97630** Ref: 94.542  
**HIP 97634** Ref: 95.157 93.033 91.096 84.002 76.039  
**HIP 97635** Ref: 95.390 94.407  
**HIP 97644** Ref: 95.692 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 97646** Ref: 95.684  
**HIP 97649** Ref: 95.012 95.054 95.096 95.295 95.313  
 95.479 95.500 95.543 95.668 95.684 94.266 94.349  
 94.410  
 Comments: Period may be incorrect.
- HIP 97650** Ref: 95.445 95.684  
**HIP 97651** Ref: 95.419  
**HIP 97664** Comments: Possible period  $p = 0.8479d$ .  
**HIP 97674** Ref: 95.347 95.445 94.191 90.024 83.020  
 Comments: Data inadequate for confirmation of period from Ref 94.191.
- HIP 97675** Ref: 95.074 95.383 95.427 95.432 95.433  
 95.445 95.671 94.407 93.003 93.050 85.212  
**HIP 97679** Ref: 76.039  
**HIP 97680** Ref: 94.189  
**HIP 97684** Ref: 91.053 84.043  
 Comments: Period from Ref 84.043 confirmed.
- HIP 97697** Ref: 95.684 93.003  
**HIP 97707** Ref: 94.189  
**HIP 97717** Ref: 95.447 95.482 94.176 94.177 94.296  
 93.146 92.070 92.110 91.190 86.141 85.084 85.222  
 84.087 82.009 81.103 80.054 71.018 64.009 58.001  
 51.001 30.013  
**HIP 97749** Ref: 95.320 95.321 95.445 95.684 95.704  
 94.182 94.423 93.088 93.211 91.053 91.102 84.043  
 84.135  
**HIP 97756** Ref: 95.701 91.096 80.059 72.016  
**HIP 97757** Ref: 95.388 94.367 76.039  
**HIP 97765** Ref: 95.146 95.684  
**HIP 97767** Ref: 95.433 95.445 94.256 94.407  
**HIP 97784** Ref: 95.558  
**HIP 97785** Ref: 95.431  
**HIP 97787** Comments: Possible period  $p = 3.7327d$ .  
 Possible disturbance from companion.
- HIP 97794** Ref: 95.447 95.450 95.452 94.117 94.299  
 93.146 92.110 89.033 85.054  
**HIP 97796** Ref: 95.241 95.388 95.785 94.370 92.218  
 76.039  
**HIP 97799** Ref: 95.558  
**HIP 97804** Ref: 95.478 95.561 94.232 94.293 94.375  
 94.376 94.377 94.387 93.036 92.110 92.205 91.190  
 88.028 88.108 86.141 85.084 85.222 84.087 81.112  
 80.054 80.068 76.025 71.018 68.012 64.009 61.002  
 58.001 51.001 30.013 22.006 7.001  
 Comments: Appears double from comparison between AC and DC magnitudes.
- HIP 97833** Ref: 94.209  
**HIP 97845** Ref: 75.016  
**HIP 97849** Ref: 94.200 92.107 92.130 91.033 91.147  
 85.222 81.012 81.038 80.051 67.018 53.003  
**HIP 97871** Ref: 95.320 95.321 95.327 95.445 95.684  
 95.704 94.202 94.423 93.211 91.053 91.102 84.043  
 71.003  
**HIP 97877** Ref: 95.684  
**HIP 97886** Ref: 95.684 94.209  
**HIP 97892** Ref: 95.684
- HIP 97904** Ref: 94.188  
**HIP 97944** Ref: 95.445 94.047 94.134 93.118 90.059  
 Comments: Possible alternative period  $p = 3.650d$ .
- HIP 97961** Ref: 95.684  
**HIP 97970** Ref: 95.684  
**HIP 97980** Ref: 95.684 95.686 91.102  
**HIP 97985** Ref: 94.289  
**HIP 98002** Ref: 95.433 95.445 95.697  
**HIP 98012** Ref: 95.445  
**HIP 98020** Ref: 95.122 95.193 95.235 95.259 95.374  
 95.445 94.043 94.259 94.270  
**HIP 98028** Ref: 94.202  
**HIP 98031** Ref: 95.692 94.196 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 98036** Ref: 95.379 95.433 95.644 95.671 95.702  
 94.407 93.015  
**HIP 98038** Ref: 93.057  
**HIP 98039** Ref: 93.092  
**HIP 98040** Ref: 95.701  
**HIP 98055** Ref: 95.684  
**HIP 98068** Ref: 95.219 94.209  
**HIP 98073** Ref: 95.419  
**HIP 98077** Ref: 95.588 89.031 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 98085** Ref: 95.452 95.580 95.737 94.407 93.036  
 93.138 93.146 92.110 91.190 89.066 88.108 86.141  
 85.084 85.222 84.087 81.076 80.054 80.068 71.018  
 68.012 64.008 64.009 61.002 58.001 51.001 40.003  
 30.013 22.006 7.001  
 Comments: Ref 93.138: possible triple system.
- HIP 98088** Comments: Possible period  $p = 13.90d$ .  
**HIP 98103** Ref: 95.684  
**HIP 98110** Ref: 95.062  
**HIP 98111** Ref: 95.684  
**HIP 98118** Ref: 91.096 81.055 79.032  
**HIP 98146** Ref: 95.684  
**HIP 98147** Comments: Wrongly identified with V724 Aql  
 in Hipparcos Input Catalogue. Other notes: G.
- HIP 98165** Ref: 92.076 80.048  
**HIP 98169** Ref: 95.684  
**HIP 98174** Ref: 95.684  
**HIP 98190** Ref: 22.006  
**HIP 98212** Ref: 94.177 93.146 91.190 88.108 85.084  
 84.087 80.068 71.018 64.009 58.001 51.001 40.003  
 22.006 7.001  
**HIP 98217** Ref: 95.447 93.146 86.002 80.068  
**HIP 98220** Ref: 95.387 95.484 95.581 94.167 94.290  
 94.413 89.031 88.020 22.006 7.001  
**HIP 98226** Ref: 95.445  
**HIP 98253** Ref: 95.684  
**HIP 98258** Ref: 95.684  
**HIP 98265** Ref: 94.236  
**HIP 98270** Ref: 95.723  
**HIP 98286** Comments: Possible period  $p = 0.17328d$ .  
**HIP 98298** Ref: 95.037 95.204 85.074  
 Comments: According to Ref 85.074 possible period  
 $p = 5.59974d$ .
- HIP 98308** Ref: 95.684  
**HIP 98320** Ref: 76.039  
**HIP 98325** Ref: 76.039  
**HIP 98332** Ref: 96.007 95.684 83.020  
**HIP 98334** Ref: 95.692 88.020 82.043 81.016 77.027  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.
- HIP 98337** Ref: 95.661 92.133  
**HIP 98339** Ref: 95.383 95.433 95.441 95.442 95.445  
**HIP 98346** Ref: 96.007  
**HIP 98351** Ref: 93.092  
**HIP 98355** Ref: 95.701 94.056 93.050  
**HIP 98357** Ref: 94.202  
**HIP 98375** Ref: 95.684  
**HIP 98376** Ref: 81.076 80.068 71.018 64.009 61.005  
 60.002 58.001  
**HIP 98377** Ref: 94.406  
**HIP 98383** Ref: 95.684

<b>HIP 98406</b> Ref: 95.704 94.423 93.211 91.102	<b>HIP 98852</b> Ref: 95.482 93.146 85.084 84.087 81.103
<b>HIP 98411</b> Ref: 90.119	71.018 67.012 67.013 67.014 64.009 61.005 60.002
<b>HIP 98412</b> Ref: 94.311	40.003
<b>HIP 98416</b> Ref: 95.445	<b>HIP 98856</b> Ref: 95.303 95.499 93.093 93.095 22.006
<b>HIP 98418</b> Ref: 95.388	7.001
<b>HIP 98421</b> Ref: 95.684 94.253 93.261 92.148 83.020	<b>HIP 98858</b> Ref: 95.684
<b>HIP 98431</b> Ref: 94.174	<b>HIP 98859</b> Ref: 95.701
<b>HIP 98438</b> Ref: 95.737	<b>HIP 98863</b> Ref: 95.022 95.080 95.115 95.296 95.338
<b>HIP 98449</b> Ref: 95.701	94.367 94.367 94.407 76.039
<b>HIP 98470</b> Ref: 95.445 94.265 92.119 92.148	<b>HIP 98872</b> Ref: 95.684
<b>HIP 98495</b> Ref: 95.684 94.311	<b>HIP 98880</b> Ref: 95.701
<b>HIP 98512</b> Ref: 95.684 95.701	<b>HIP 98891</b> Ref: 95.445
<b>HIP 98530</b> Ref: 95.388	<b>HIP 98897</b> Ref: 95.684
<b>HIP 98532</b> Ref: 95.087 95.122 95.235 94.043 94.188	<b>HIP 98909</b> Ref: 95.309 22.006
<b>HIP 98538</b> Ref: 94.206	<b>HIP 98910</b> Ref: 95.137 94.120 93.015 85.117 85.135
<b>HIP 98539</b> Ref: 85.112 84.178	Comments: No periodicity detected. Sudden
<b>HIP 98542</b> Ref: 94.116	short-lived bursts?
<b>HIP 98543</b> Ref: 95.543 95.684 94.349 93.066 93.097	<b>HIP 98955</b> Ref: 96.009 95.276 95.715 94.487 93.033
71.011	92.024 91.096 88.105
<b>HIP 98546</b> Ref: 95.697	<b>HIP 98959</b> Ref: 95.386 95.445 94.259
Comments: Possible period $p = 15.06d$ .	<b>HIP 98974</b> Ref: 95.259 95.445 95.697
<b>HIP 98553</b> Ref: 95.447 95.450 91.190 90.004 80.068	<b>HIP 98976</b> Ref: 95.388 94.209
76.025 71.018 64.009 61.005 60.002	<b>HIP 98999</b> Ref: 94.209
<b>HIP 98571</b> Ref: 95.419	<b>HIP 99002</b> Ref: 95.013 95.388 94.022 94.335 76.039
<b>HIP 98572</b> Ref: 87.147	<b>HIP 99005</b> Ref: 76.039
<b>HIP 98575</b> Ref: 95.445	<b>HIP 99011</b> Ref: 93.073 93.092 93.118 89.060
<b>HIP 98577</b> Ref: 95.701	<b>HIP 99013</b> Ref: 95.347 94.191 90.024 85.074
<b>HIP 98578</b> Ref: 94.257	Comments: Data inadequate for confirmation of
<b>HIP 98579</b> Ref: 95.704 94.423 93.211 91.102	period from Ref 94.191.
<b>HIP 98608</b> Ref: 95.484 94.196 94.204 92.011	<b>HIP 99021</b> Ref: 94.367 90.086
<b>HIP 98624</b> Ref: 95.445	<b>HIP 99029</b> Ref: 95.445
<b>HIP 98633</b> Ref: 95.684	<b>HIP 99031</b> Ref: 94.175 94.216 92.162 90.059 86.118
<b>HIP 98636</b> Ref: 93.015	Comments: Half the period given in Ref 90.059.
<b>HIP 98661</b> Ref: 94.367	<b>HIP 99042</b> Comments: Possible period $p = 50.46d$ .
<b>HIP 98675</b> Ref: 91.190 77.040 71.018 64.009 60.002	<b>HIP 99080</b> Ref: 94.209
58.001	<b>HIP 99089</b> Ref: 95.412 94.284 94.538 93.131 80.050
<b>HIP 98687</b> Ref: 80.033	71.006 22.006 7.001
<b>HIP 98688</b> Ref: 95.684 94.204	<b>HIP 99101</b> Ref: 95.694 92.080
<b>HIP 98697</b> Ref: 94.406	<b>HIP 99102</b> Ref: 95.684 76.039
<b>HIP 98698</b> Ref: 95.124 95.277 95.671 94.007	<b>HIP 99120</b> Ref: 94.204
<b>HIP 98702</b> Ref: 95.331	<b>HIP 99122</b> Ref: 76.039
<b>HIP 98712</b> Ref: 92.162	<b>HIP 99124</b> Ref: 93.093 93.095
<b>HIP 98719</b> Ref: 94.122 94.211 83.031 71.003	<b>HIP 99126</b> Comments: Probably wrongly identified with
<b>HIP 98728</b> Ref: 94.406	V2232 Sgr in Hipparcos Input Catalogue.
<b>HIP 98737</b> Ref: 95.140 95.418 94.191 94.286 94.306	<b>HIP 99130</b> Ref: 95.701
94.307 93.122 93.161 90.024 86.001 86.145 83.023	<b>HIP 99137</b> Ref: 95.445
82.082 30.013 22.006 7.001	<b>HIP 99139</b> Ref: 95.445
Comments: Period from Ref 94.191 confirmed and	<b>HIP 99171</b> Ref: 95.445
adjusted.	<b>HIP 99177</b> Ref: 76.039
<b>HIP 98753</b> Ref: 95.388 95.570	<b>HIP 99210</b> Ref: 95.694 93.118 92.080 90.059
<b>HIP 98754</b> Ref: 94.028 93.048 93.062	<b>HIP 99221</b> Ref: 95.684 94.202
<b>HIP 98757</b> Ref: 95.347 94.191 94.202 81.079	<b>HIP 99224</b> Ref: 95.445
Comments: Period from Ref 94.191 confirmed.	<b>HIP 99233</b> Ref: 95.701
<b>HIP 98763</b> Ref: 94.165 93.211 91.102 85.042 85.045	<b>HIP 99240</b> Ref: 95.386 95.698 94.259 94.410
84.043	<b>HIP 99245</b> Ref: 95.701
Comments: Period from Ref 85.045 not confirmed.	<b>HIP 99246</b> Comments: Period doubtful.
<b>HIP 98767</b> Ref: 95.268 95.644 95.671 94.188 94.256	<b>HIP 99249</b> Comments: Possible period $p = 0.5006d$ .
94.407 93.015	<b>HIP 99250</b> Comments: Possible period $p = 1.3909d$ .
<b>HIP 98778</b> Ref: 85.074 76.039	<b>HIP 99255</b> Ref: 94.028 93.048 93.062
Comments: According to Ref 85.074 possible period	<b>HIP 99257</b> Ref: 94.206
$p = 7d$ .	<b>HIP 99260</b> Ref: 95.701
<b>HIP 98785</b> Ref: 95.445	<b>HIP 99267</b> Ref: 95.087 95.122 95.235 94.043 94.389
<b>HIP 98792</b> Ref: 95.163 95.268 94.188 94.256	<b>HIP 99276</b> Ref: 93.146 93.212 85.084 84.087 77.040
<b>HIP 98813</b> Ref: 95.445	71.018 64.009 60.002
<b>HIP 98814</b> Ref: 94.538 80.050 30.013 26.003 24.004	<b>HIP 99283</b> Ref: 95.004
22.006	<b>HIP 99303</b> Ref: 95.267 94.403 93.102 81.110
<b>HIP 98819</b> Ref: 95.124 95.268 95.277 95.285 95.399	<b>HIP 99310</b> Ref: 66.022 30.013 22.006 7.001
95.433 95.445 95.658 95.671 94.007 94.267 94.407	<b>HIP 99312</b> Ref: 95.567 93.095
<b>HIP 98824</b> Ref: 94.189	<b>HIP 99333</b> Ref: 92.044 85.037
<b>HIP 98826</b> Comments: The double-star analysis indicates	<b>HIP 99336</b> Ref: 22.006
that it may be the fainter (B) component which is	<b>HIP 99340</b> Ref: 94.139 94.202 81.045 76.039
variable. Other notes: D.	<b>HIP 99362</b> Ref: 94.196 22.006 7.001
<b>HIP 98832</b> Comments: Possibly EA type.	<b>HIP 99377</b> Ref: 95.008 95.111 95.388 94.015 94.022
<b>HIP 98844</b> Ref: 95.445 95.558	94.231 93.141 92.113 89.087 87.148 85.107

- HIP 99402** Comments: Possible period  $p = 1.2904d$ .  
Other notes: G.
- HIP 99404** Ref: 95.684 94.191 94.209 89.105  
Comments: Possible period  $p = 0.12700d$ .
- HIP 99423** Ref: 94.188
- HIP 99426** Ref: 95.701
- HIP 99439** Ref: 76.039
- HIP 99448** Ref: 95.701
- HIP 99457** Ref: 94.370
- HIP 99461** Ref: 95.445 94.259 94.410 93.029
- HIP 99467** Ref: 94.414
- HIP 99473** Ref: 95.356
- HIP 99476** Ref: 94.406 91.102
- HIP 99503** Ref: 95.203 91.066 30.012 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 99518** Ref: 94.209 94.414
- HIP 99520** Ref: 94.209
- HIP 99523** Ref: 94.209 90.095
- HIP 99525** Ref: 95.111 95.388 94.022
- HIP 99527** Ref: 95.188 95.274 95.406 94.129 94.302  
94.303 94.481 94.510 93.047 93.147 93.200 92.141  
89.048 87.179 80.001  
Comments: Ref 92.141: rapid decline over time interval of mission.
- HIP 99528** Ref: 94.209 90.095
- HIP 99535** Ref: 94.202
- HIP 99540** Ref: 85.175 84.043
- HIP 99546** Ref: 95.111 95.301 95.388 95.434 95.653  
94.015 94.022 89.001 85.013
- HIP 99553** Comments: Possible period  $p = 15.86d$ .
- HIP 99567** Ref: 95.737 92.140 91.190 88.108 85.084  
84.087 80.068 71.018 64.009 61.005 60.002
- HIP 99580** Ref: 95.022 95.388 95.686 93.151
- HIP 99585** Ref: 95.684 91.102
- HIP 99595** Ref: 95.701
- HIP 99599** Ref: 95.382 95.396 95.412 95.414 93.092  
86.120
- HIP 99624** Ref: 95.445
- HIP 99631** Ref: 95.445
- HIP 99639** Ref: 95.684
- HIP 99640** Comments: Possible period  $p = 0.1145d$ .
- HIP 99649** Ref: 95.338
- HIP 99651** Ref: 95.445
- HIP 99653** Ref: 95.509 95.567 94.196 94.418 30.013  
22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 99655** Ref: 95.684 94.209
- HIP 99668** Ref: 93.211 91.102
- HIP 99671** Ref: 95.701
- HIP 99672** Ref: 95.327 94.202 84.043 81.045 76.039
- HIP 99675** Ref: 95.419 94.255 94.539 93.043 85.193  
84.140 75.028 70.007 69.001 63.003
- HIP 99679** Ref: 95.684
- HIP 99701** Ref: 94.410
- HIP 99703** Ref: 95.701
- HIP 99715** Ref: 94.206
- HIP 99719** Ref: 95.684 86.103
- HIP 99720** Comments: Possible period  $p = 4.037d$ .
- HIP 99722** Ref: 95.701
- HIP 99738** Ref: 95.143 95.347 95.483 95.684 94.191  
90.024 79.005  
Comments: Period from Ref 94.191 confirmed.
- HIP 99742** Ref: 95.684
- HIP 99757** Ref: 86.103
- HIP 99758** Ref: 93.095  
Comments: Possible period  $p = 37.53d$ .
- HIP 99760** Ref: 95.204 94.367
- HIP 99762** Ref: 95.445
- HIP 99765** Ref: 95.697 71.018 67.012 67.013 67.014  
64.009 58.001
- HIP 99768** Ref: 95.312 95.388
- HIP 99769** Ref: 94.022 90.087
- HIP 99770** Ref: 95.033 95.060 95.347 95.684 94.046  
94.191 93.026  
Comments: Possible period  $p = 0.03234d$ .
- HIP 99802** Ref: 93.081 89.031 88.020 22.006 7.001
- HIP 99806** Ref: 95.701
- HIP 99816** Ref: 94.406
- HIP 99820** Ref: 80.051 70.013 30.005 24.004 22.006  
7.001
- HIP 99824** Ref: 85.147
- HIP 99825** Ref: 95.383 95.386 95.445 95.644 94.256  
94.259 94.407 94.410
- HIP 99848** Ref: 95.419 95.566 93.043 87.090 87.103  
85.193 84.140 75.028 74.034 72.002 70.008
- HIP 99852** Ref: 93.211 91.102
- HIP 99853** Ref: 95.081 95.419 94.075 93.043 93.059  
91.159 85.006 85.148 85.201 85.207 84.118
- HIP 99870** Ref: 95.684
- HIP 99874** Ref: 94.209
- HIP 99887** Ref: 94.117  
Comments: About 1.7 mag brighter than expected.
- HIP 99893** Ref: 95.301 95.684 95.751
- HIP 99920** Ref: 94.542
- HIP 99925** Ref: 95.445
- HIP 99926** Ref: 95.445
- HIP 99927** Ref: 94.202 94.213 91.053 90.148 84.043  
82.031  
Comments: Period from Ref 84.043 confirmed.
- HIP 99938** Ref: 95.697
- HIP 99968** Ref: 95.419
- HIP 99982** Ref: 95.111 95.301 95.388 94.022
- HIP 99990** Ref: 95.084 95.361 94.196 30.013 22.006  
7.001  
Comments: Possible period  $p = 406d$ .
- HIP 100012** Ref: 95.445
- HIP 100017** Ref: 95.386
- HIP 100033** Ref: 89.031 88.020 82.043 77.027 22.006  
7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 100044** Ref: 95.010 95.080 95.115 95.128 95.282  
95.312 95.476 95.503 95.536 95.554 95.627 95.639  
95.653 95.678 94.058 94.183 94.184 94.310 94.314  
94.367 93.080 93.181 93.276 92.033 92.162 91.038  
90.003 86.070 85.082 30.013 7.001
- HIP 100048** Ref: 86.141  
Comments: Ephemeris based on AAVSO data.
- HIP 100058** Ref: 95.004
- HIP 100064** Ref: 94.259 93.015
- HIP 100069** Ref: 95.388
- HIP 100082** Comments: Possibly EA type.
- HIP 100090** Ref: 95.701
- HIP 100097** Ref: 95.684
- HIP 100108** Ref: 95.684 94.209
- HIP 100113** Ref: 94.418 88.020 22.006 7.001
- HIP 100122** Ref: 95.338
- HIP 100135** Ref: 95.726 91.097 86.092 80.058
- HIP 100137** Ref: 22.006 7.001
- HIP 100142** Ref: 85.074  
Comments: Suspected error in decimal point position in period in Ref 85.074.
- HIP 100154** Ref: 7.001  
Comments: Variations on time scale of 200–600d.
- HIP 100173** Ref: 95.388
- HIP 100184** Ref: 95.445 95.701
- HIP 100193** Ref: 85.074
- HIP 100214** Ref: 95.111 95.174 95.301 95.388 95.507  
94.022 94.383 94.463 93.197 92.022 90.041 90.049  
88.038 84.080
- HIP 100219** Ref: 95.361 94.418 88.020 86.141 85.222  
84.117 30.012 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 100227** Ref: 93.230 92.076 91.096 83.046 81.055
- HIP 100232** Ref: 95.445
- HIP 100234** Comments: Alternative possible period  
 $p = 69.0d$ .
- HIP 100239** Ref: 95.684
- HIP 100247** Ref: 95.445
- HIP 100248** Ref: 95.697
- HIP 100250** Ref: 94.202 91.053 84.043

- HIP 100256** Ref: 95.684 72.006  
**HIP 100258** Ref: 95.313 91.096 81.055 80.049 76.032 65.005  
**HIP 100261** Ref: 94.204  
**HIP 100268** Ref: 95.004 95.684  
**HIP 100269** Ref: 94.406  
**HIP 100279** Ref: 95.445 94.188  
**HIP 100286** Ref: 96.007 95.033 95.060 93.026  
**HIP 100287** Ref: 95.174 95.480 94.022 94.035 94.367 82.061  
**HIP 100288** Ref: 96.007 95.033 95.060 95.684 93.026  
**HIP 100289** Ref: 95.042 95.316 95.342 95.393 94.049 94.211 94.326 93.085  
**HIP 100310** Ref: 94.028 93.003 93.048 93.062 93.088  
**HIP 100325** Ref: 95.600 94.028 93.048 93.062  
**HIP 100345** Ref: 95.684 93.043  
**HIP 100349** Ref: 95.701  
**HIP 100361** Ref: 93.092  
**HIP 100404** Ref: 22.006  
 Comments: Long-term variations, irregular. Brighter than in Hipparcos Input Catalogue.  
**HIP 100412** Ref: 95.386 95.445 94.056 93.050  
**HIP 100413** Comments: Possible period  $p = 129.3d$  or may be longer.  
**HIP 100428** Ref: 95.445  
**HIP 100434** Ref: 95.062  
**HIP 100437** Ref: 95.062 85.090  
**HIP 100453** Ref: 95.137 95.293 95.467 95.478  
**HIP 100467** Ref: 95.701  
**HIP 100468** Comments: Possible period  $p = 7.923d$ .  
**HIP 100469** Ref: 95.033  
**HIP 100487** Ref: 95.701  
**HIP 100497** Ref: 76.039  
**HIP 100511** Ref: 95.268 95.671  
**HIP 100528** Ref: 95.701  
**HIP 100541** Ref: 95.445  
**HIP 100542** Ref: 76.039  
**HIP 100548** Ref: 95.523 95.647 76.039  
**HIP 100550** Comments: Possible period  $p = 24.83d$ .  
**HIP 100558** Comments: Variations appear to be associated with companion.  
**HIP 100568** Ref: 95.122 95.235 95.433 95.445 94.043 94.407  
**HIP 100574** Ref: 94.403  
**HIP 100587** Ref: 95.661 85.090  
**HIP 100591** Ref: 95.684  
**HIP 100605** Ref: 95.230 30.012 22.006  
**HIP 100628** Ref: 95.161 94.211 94.212 93.013  
**HIP 100651** Ref: 94.209  
**HIP 100660** Ref: 94.188  
**HIP 100664** Ref: 95.684  
**HIP 100714** Ref: 95.684  
**HIP 100736** Ref: 94.406  
**HIP 100738** Ref: 95.445  
**HIP 100745** Ref: 92.076  
**HIP 100748** Comments: Possible flares?  
**HIP 100751** Ref: 95.313 94.309 94.311 94.390  
**HIP 100754** Ref: 93.015  
**HIP 100764** Ref: 93.092  
**HIP 100787** Ref: 95.701  
**HIP 100791** Ref: 94.206  
**HIP 100792** Ref: 95.122 95.193 95.235 95.374 95.379 95.433 95.445 95.541 94.043 94.188  
**HIP 100804** Ref: 95.338  
**HIP 100808** Ref: 95.684  
**HIP 100825** Ref: 95.701  
**HIP 100852** Ref: 95.445  
**HIP 100859** Ref: 95.684  
 Comments: Type RRab with a strong Blazhko effect.  
**HIP 100869** Comments: Could be type RRc with half the period.  
**HIP 100872** Ref: 95.701  
**HIP 100879** Comments: Possible flare star.  
**HIP 100895** Ref: 95.445  
**HIP 100907** Ref: 95.684  
**HIP 100925** Ref: 95.386 95.445  
**HIP 100926** Comments: Possible periods  $p = 2.914d$  or  $p = 2.3124d$ .  
**HIP 100935** Ref: 94.196 22.006 7.001  
**HIP 100981** Comments: Insufficient data for period determination. Possibly related to  $p = 6.051d$ .  
**HIP 101017** Ref: 89.141  
**HIP 101023** Ref: 95.387 30.013 22.006 7.001  
 Comments: Variations on time scale of 700d.  
**HIP 101027** Ref: 93.015  
**HIP 101035** Ref: 71.018 64.009 61.005  
**HIP 101044** Ref: 95.684  
**HIP 101056** Ref: 22.006  
**HIP 101063** Ref: 89.031 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 101067** Ref: 95.137 95.523 95.684 95.690 94.209  
**HIP 101070** Ref: 95.684  
**HIP 101076** Ref: 95.385 95.398 94.224 93.003  
**HIP 101080** Ref: 95.701  
**HIP 101093** Ref: 95.684  
**HIP 101098** Ref: 93.092 93.118 92.111 90.059  
**HIP 101120** Ref: 95.445 95.684  
**HIP 101123** Ref: 95.445 95.684  
**HIP 101138** Ref: 93.126  
 Comments: Period in Ref 93.126 ( $p = 0.6406d$ ) not confirmed.  
**HIP 101156** Ref: 94.196  
**HIP 101160** Ref: 95.112 95.143 95.684  
**HIP 101162** Ref: 95.686 30.013 22.006  
**HIP 101185** Comments: Period uncertain, bad time coverage.  
**HIP 101186** Ref: 95.338 95.388  
**HIP 101195** Comments: Possible period  $p = 112.6d$ .  
**HIP 101211** Ref: 95.684  
**HIP 101213** Ref: 95.684 94.253 93.003  
**HIP 101214** Ref: 94.407  
**HIP 101227** Ref: 94.206  
**HIP 101233** Ref: 94.206  
**HIP 101235** Ref: 95.684 94.206  
**HIP 101260** Ref: 95.014 95.327 95.684 94.139 94.202 91.053 85.127 84.043  
**HIP 101270** Ref: 95.303 95.499 22.006  
**HIP 101282** Ref: 95.230 94.196 22.006  
**HIP 101286** Comments: May also be type EW at double the period.  
**HIP 101300** Ref: 95.684  
**HIP 101319** Ref: 95.701  
**HIP 101328** Ref: 95.629 94.055  
**HIP 101341** Ref: 95.146 85.031  
**HIP 101345** Ref: 95.445  
**HIP 101346** Ref: 94.407  
**HIP 101350** Ref: 94.357 93.126  
**HIP 101356** Ref: 95.378 95.697 94.236 94.282 94.286 94.409 93.128 91.090 82.054 77.031 66.008  
**HIP 101379** Ref: 95.442 95.445 95.697  
**HIP 101382** Ref: 95.386  
**HIP 101384** Ref: 95.684  
**HIP 101393** Ref: 95.482 91.190 85.084 84.087 81.076 81.103 71.018 67.012 67.013 67.014 64.009 61.005 60.002 22.006 7.001  
**HIP 101411** Ref: 95.388  
**HIP 101453** Comments: Only very few data points. If it is an RR Lyrae, then the light curve appears like an RRab, but it might be something completely different.  
**HIP 101467** Ref: 95.062  
**HIP 101473** Ref: 95.684  
**HIP 101474** Ref: 95.419 93.043  
**HIP 101475** Ref: 94.202 93.126 80.015  
 Comments: Period  $p = 1.006d$  (Ref 93.126) not confirmed.  
**HIP 101483** Ref: 95.684  
**HIP 101512** Comments: Period doubtful.  
**HIP 101527** Ref: 85.203  
 Comments: Possible period  $p = 97.30d$ .  
**HIP 101546** Ref: 90.024

- HIP 101556** Ref: 95.523 95.684 95.690  
**HIP 101588** Ref: 94.406  
**HIP 101589** Ref: 95.684  
**HIP 101608** Ref: 95.684 94.189  
**HIP 101612** Ref: 95.684  
**HIP 101622** Ref: 94.406  
**HIP 101641** Ref: 95.684  
**HIP 101671** Ref: 95.701  
**HIP 101691** Ref: 95.688  
**HIP 101692** Ref: 95.137 95.419  
**HIP 101740** Ref: 95.445  
**HIP 101746** Ref: 94.028 93.048  
**HIP 101748** Ref: 95.726 95.753 93.177 93.219 93.234 85.092 85.124 85.155 65.005 58.002  
**HIP 101750** Ref: 96.003 95.359 95.438 95.555 95.747 94.257 94.265 94.323 94.433 94.444 94.452 94.474 94.492 94.508 93.277 92.098 92.154 92.180 92.202 91.162 89.007 89.093 89.138 88.044 88.085 87.082 87.105 86.104 86.109 85.172 85.243 84.027 84.141 84.149 84.153 84.168 83.005 83.094 82.046 82.065 79.001 73.005 71.020 69.007 66.013 66.016 66.017 65.005 58.002 30.013 29.003  
 Comments: Ref 66.013 has discussion of changes in period and light curve. New data shifted in phase relative to old ephemeris.  
**HIP 101768** Ref: 95.684  
**HIP 101769** Ref: 95.357 94.206 86.017  
**HIP 101773** Ref: 95.347 94.191 84.161 83.020 81.100  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 101780** Ref: 94.538 92.167 80.051 26.003 22.006 7.001  
**HIP 101788** Ref: 95.351 94.148  
**HIP 101799** Ref: 94.189  
**HIP 101800** Ref: 95.684  
**HIP 101808** Ref: 95.684 95.732 93.015  
**HIP 101810** Ref: 95.230 94.204 92.162 89.161  
 Comments: Ephemeris based on AAVSO data.  
**HIP 101847** Ref: 95.062 93.092  
**HIP 101863** Ref: 64.004  
 Comments: Ref 64.004: Not variable over 3 nights in 1959.  
**HIP 101867** Ref: 95.280 95.684  
**HIP 101870** Ref: 95.419  
**HIP 101880** Ref: 95.445  
**HIP 101882** Ref: 95.419 95.445  
**HIP 101888** Ref: 74.036 30.012 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 101900** Ref: 95.684  
**HIP 101916** Ref: 95.445 95.644 94.407 93.015  
**HIP 101919** Ref: 95.445 95.684  
**HIP 101923** Ref: 95.688 94.189  
**HIP 101934** Ref: 76.039  
**HIP 101936** Ref: 85.090 85.090  
**HIP 101948** Ref: 94.406  
**HIP 101953** Ref: 93.092  
**HIP 101955** Ref: 94.206  
**HIP 101958** Ref: 95.684 94.278  
**HIP 101960** Comments: Possibly SR with period around  $p = 70$ d.  
**HIP 101966** Ref: 95.445  
**HIP 101983** Ref: 95.445 94.056 94.259 93.050  
**HIP 101984** Ref: 94.204  
**HIP 101985** Ref: 95.692 88.020 82.043 81.016 77.027 22.006 7.001  
**HIP 101991** Ref: 95.030 95.108 95.651 95.656 95.776 94.156 94.208 94.324 94.327 94.422 94.493 94.527 93.105 93.195 93.202 93.203 92.095 92.193 91.004 91.085 82.038 81.001  
**HIP 101997** Ref: 95.386 95.445  
**HIP 102011** Ref: 93.015  
**HIP 102018** Ref: 95.445  
**HIP 102033** Ref: 95.684  
**HIP 102037** Comments: Possibly EA type, but insufficient data for period determination.  
**HIP 102040** Ref: 94.407  
**HIP 102046** Ref: 95.122 95.445 95.697 94.043  
**HIP 102066** Ref: 95.351 95.385  
**HIP 102070** Ref: 95.347 94.191 90.024  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 102082** Ref: 95.361 95.680 95.686 94.308 94.418 88.020 84.117 22.006 7.001  
**HIP 102088** Ref: 95.111 95.434 94.022 85.074  
**HIP 102092** Ref: 94.204  
**HIP 102098** Ref: 95.066 95.146 95.306 95.478 95.523 95.563 95.684 95.690 94.041 94.314 92.189 87.149  
 Comments: Possible period  $p = 9.654$ d.  
**HIP 102141** Ref: 95.044 94.115 94.265 94.410 90.019 89.059  
**HIP 102155** Ref: 76.039  
**HIP 102158** Ref: 94.175 94.216 88.095  
**HIP 102160** Comments: Possible period  $p = 7.117$ d.  
**HIP 102162** Ref: 95.445  
**HIP 102183** Ref: 93.126  
**HIP 102190** Ref: 95.144 95.160 95.220 95.537 95.585 95.657 94.208 94.227 92.018 85.240 83.123  
**HIP 102195** Ref: 95.388  
 Comments: One burst detected around JD 2 448 400.  
**HIP 102208** Ref: 95.684  
**HIP 102216** Ref: 95.684  
**HIP 102222** Ref: 94.189  
**HIP 102246** Ref: 93.081 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 102253** Ref: 95.684  
**HIP 102256** Comments: Period may alternatively be half this value.  
**HIP 102258** Ref: 95.364 95.528 95.554 95.590 94.209 93.126  
 Comments: Ref 93.126 gives period  $p = 24.45$ d.  
**HIP 102264** Ref: 95.386  
**HIP 102276** Ref: 95.447 95.482 95.690 94.176 94.177 94.387 93.037 93.146 92.110 91.190 88.020 86.141 85.084 85.222 84.087 84.194 83.064 83.114 82.009 81.081 81.103 80.054 71.018 68.012 64.009 51.001 40.003 22.006 7.001  
 Comments: Period good. When at minimum, apparently a companion becomes visible.  
**HIP 102281** Ref: 95.347 95.483 95.684 94.191 93.100 91.115 90.024 83.020 82.063 76.002 73.022 66.011 66.015  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 102292** Ref: 95.373 95.374  
**HIP 102321** Ref: 94.406  
**HIP 102333** Ref: 95.684  
**HIP 102336** Ref: 95.343  
**HIP 102337** Ref: 95.445  
**HIP 102353** Comments: May also be a pulsating variable at half this period.  
**HIP 102355** Comments: Possible period  $p = 31.67$ d.  
**HIP 102388** Ref: 93.092  
**HIP 102395** Ref: 95.684  
**HIP 102409** Ref: 95.019 95.044 95.053 95.054 95.067 95.224 95.277 95.290 95.343 95.477 95.487 95.497 95.524 95.562 95.597 95.628 94.007 94.063 94.135 94.265 94.320 94.380 94.393 94.410 93.040 93.089 91.054 89.015 89.059 87.018 86.013  
**HIP 102412** Comments: Possible alternative period  $p = 1.1547$ d.  
**HIP 102414** Ref: 95.445  
**HIP 102418** Comments: Variation associated with component? No periodicity.  
**HIP 102419** Ref: 94.189  
**HIP 102422** Ref: 95.625 95.638 95.644 94.209 94.351 94.407 94.537 93.015  
**HIP 102431** Ref: 93.050 73.008

<b>HIP 102440</b> Ref: 95.332 95.419 94.167 92.162 22.006 7.001 Comments: Very long-term variations (> 1000d). No periodicity detected.	<b>HIP 102949</b> Ref: 95.447 94.176 94.177 93.146 92.074 92.110 91.154 91.190 86.044 86.141 85.084 85.222 84.087 80.054 77.040 71.002 71.018 68.012 64.009 58.001 51.001 40.003 22.006 7.001
<b>HIP 102445</b> Comments: Period uncertain, bad time coverage.	<b>HIP 102952</b> Ref: 86.103
<b>HIP 102446</b> Ref: 95.445	<b>HIP 102953</b> Ref: 85.074
<b>HIP 102447</b> Ref: 95.445	<b>HIP 102962</b> Ref: 95.033 95.060 93.026
<b>HIP 102449</b> Ref: 95.388	<b>HIP 102975</b> Ref: 94.189
<b>HIP 102453</b> Ref: 95.062	<b>HIP 102978</b> Ref: 85.090
<b>HIP 102480</b> Ref: 94.406	<b>HIP 102999</b> Ref: 95.191 95.726 94.010 94.541 93.033 93.233 92.224 91.096 87.105 87.157 86.141 84.189 80.049 72.004 65.005 64.011 30.013 22.006 7.001
<b>HIP 102485</b> Ref: 95.064 95.658	<b>HIP 103007</b> Ref: 94.212
<b>HIP 102487</b> Ref: 95.684	<b>HIP 103018</b> Ref: 94.189
<b>HIP 102488</b> Ref: 95.062 95.390 94.243 94.524 93.015	<b>HIP 103034</b> Ref: 94.189
<b>HIP 102496</b> Ref: 95.445	<b>HIP 103045</b> Ref: 95.684 94.189 83.020
<b>HIP 102530</b> Ref: 95.684	<b>HIP 103069</b> Ref: 93.192 22.006
<b>HIP 102531</b> Ref: 94.257	<b>HIP 103077</b> Ref: 95.445
<b>HIP 102532</b> Ref: 94.257 93.015	<b>HIP 103082</b> Ref: 95.445
<b>HIP 102545</b> Ref: 94.432 Comments: Probably EA type, but insufficient data for period determination.	<b>HIP 103089</b> Ref: 76.039
<b>HIP 102546</b> Ref: 95.230 94.196 30.013 22.006 7.001	<b>HIP 103094</b> Ref: 85.090
<b>HIP 102558</b> Comments: Long-term variations.	<b>HIP 103096</b> Ref: 94.410
<b>HIP 102571</b> Ref: 95.062 30.013 7.001	<b>HIP 103108</b> Ref: 95.684
<b>HIP 102589</b> Ref: 95.338 94.206 94.314	<b>HIP 103127</b> Ref: 95.445
<b>HIP 102593</b> Ref: 95.297 95.371 95.378 95.379 95.697 94.123 94.236 94.409 93.111 92.108 89.146 86.022 86.041 82.054 77.031 69.011	<b>HIP 103143</b> Ref: 95.022
<b>HIP 102602</b> Ref: 95.445	<b>HIP 103144</b> Ref: 95.006 94.212 92.175 91.018 87.013 84.104 82.013 81.077
<b>HIP 102618</b> Ref: 95.280 95.563 95.684 94.189 94.311	<b>HIP 103150</b> Ref: 95.445
<b>HIP 102624</b> Ref: 94.204 94.542	<b>HIP 103154</b> Ref: 95.445 95.684 93.015
<b>HIP 102626</b> Ref: 95.053 95.124 94.420	<b>HIP 103161</b> Ref: 95.445
<b>HIP 102631</b> Ref: 95.684	<b>HIP 103176</b> Comments: Possible flare activity.
<b>HIP 102633</b> Ref: 95.684	<b>HIP 103191</b> Ref: 95.092 94.019 94.292 94.425 93.060 93.098 93.123 93.162 93.232 93.247 86.037 85.016 85.019 84.119 84.197 82.023 81.083 76.005 75.016
<b>HIP 102648</b> Ref: 95.278 93.032 93.198 90.156 89.097 87.051 87.105 86.120 86.141 85.061 85.062 85.193 85.208 85.222 84.025 84.140	<b>HIP 103200</b> Ref: 85.090
<b>HIP 102658</b> Ref: 94.189	<b>HIP 103213</b> Ref: 94.209
<b>HIP 102675</b> Ref: 95.432 94.056 93.050	<b>HIP 103215</b> Ref: 94.503
<b>HIP 102693</b> Ref: 93.015	<b>HIP 103218</b> Ref: 94.189
<b>HIP 102717</b> Ref: 91.053 84.043	<b>HIP 103219</b> Ref: 93.015
<b>HIP 102724</b> Ref: 95.080 95.146 95.523 94.367 94.407 86.094 76.039 Comments: Possible period $p = 4.438d$ .	<b>HIP 103227</b> Ref: 95.698
<b>HIP 102732</b> Ref: 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 103240</b> Ref: 94.189
<b>HIP 102753</b> Ref: 95.445	<b>HIP 103241</b> Ref: 94.203 90.004
<b>HIP 102762</b> Ref: 95.445	<b>HIP 103246</b> Ref: 84.043
<b>HIP 102770</b> Comments: Possible period $p = 384.6d$ .	<b>HIP 103261</b> Ref: 95.347 95.684 94.191 90.024 83.020 74.029
<b>HIP 102771</b> Ref: 90.158	<b>HIP 103263</b> Ref: 94.148
<b>HIP 102775</b> Ref: 93.126	<b>HIP 103269</b> Ref: 95.087 95.122 94.043
<b>HIP 102785</b> Ref: 94.189	<b>HIP 103277</b> Comments: Drift over mission, becomes 0.15 mag brighter. Possible GCAS star?
<b>HIP 102805</b> Ref: 95.445	<b>HIP 103294</b> Ref: 94.542
<b>HIP 102819</b> Ref: 95.684	<b>HIP 103298</b> Ref: 95.684
<b>HIP 102827</b> Comments: Possibly EA type, but insufficient data for period determination.	<b>HIP 103311</b> Ref: 94.265 Comments: Possible period $p = 1.8018d$ .
<b>HIP 102829</b> Ref: 95.692 88.020 82.043 81.016 77.027 70.009 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 103312</b> Ref: 94.367 94.407
<b>HIP 102842</b> Ref: 94.248	<b>HIP 103322</b> Ref: 94.209
<b>HIP 102843</b> Ref: 95.684	<b>HIP 103337</b> Ref: 95.445
<b>HIP 102853</b> Ref: 95.447 95.451 95.764 91.190 89.038 85.084 84.087 80.068 71.018 64.009 58.001	<b>HIP 103346</b> Ref: 93.126 Comments: Period given in Ref 93.126 ( $p = 1.238d$ ) not confirmed.
<b>HIP 102858</b> Ref: 93.126	<b>HIP 103356</b> Ref: 95.062 93.092
<b>HIP 102862</b> Ref: 95.122 95.445 94.043	<b>HIP 103359</b> Ref: 95.684 93.015
<b>HIP 102866</b> Comments: Time scale of variations 400d.	<b>HIP 103360</b> Ref: 85.090
<b>HIP 102874</b> Ref: 94.174	<b>HIP 103364</b> Ref: 95.378 95.697 94.236 94.409 93.128 66.008 22.006 7.001
<b>HIP 102878</b> Ref: 95.684	<b>HIP 103371</b> Ref: 95.022 95.388 94.357
<b>HIP 102896</b> Ref: 95.327	<b>HIP 103386</b> Ref: 94.189
<b>HIP 102926</b> Comments: One burst observed around JD 2 448 200.	<b>HIP 103389</b> Ref: 95.445
<b>HIP 102935</b> Ref: 94.189	<b>HIP 103392</b> Ref: 94.407
	<b>HIP 103401</b> Ref: 94.542
	<b>HIP 103413</b> Ref: 95.232 95.684 94.314
	<b>HIP 103419</b> Ref: 84.149 79.033 66.023 64.010 64.013
	<b>HIP 103433</b> Ref: 88.108 81.103 71.018 61.005 60.002 40.003 30.013 22.006 7.001
	<b>HIP 103443</b> Ref: 94.138

- HIP 103458** Ref: 95.087 95.122 95.386 95.445 94.043 94.084
- HIP 103460** Ref: 95.684 94.189 83.020
- HIP 103471** Ref: 95.347 94.191 90.024 83.055
- HIP 103498** Ref: 95.445 94.056 93.050
- HIP 103505** Ref: 95.430 95.516 95.694 95.726 95.745 94.239 94.388 94.429 94.470 93.118 92.076 92.111 92.174 91.108 91.122 91.146 91.172 89.071 89.080 89.119 89.126 89.135 87.006 87.134 85.138 84.156 65.005 64.013
- HIP 103519** Ref: 95.062 93.092
- HIP 103542** Ref: 95.004
- HIP 103545** Ref: 95.684 94.189 94.211 76.023
- HIP 103546** Ref: 95.268 94.036 94.148
- HIP 103599** Ref: 94.189
- HIP 103605** Ref: 95.386
- HIP 103616** Ref: 95.684 91.053 85.042 85.045 84.043  
Comments: Period from Ref 84.043 confirmed.  
Possible alternative period  $p = 8.20d$ .
- HIP 103624** Ref: 94.406
- HIP 103632** Ref: 95.232 95.252 94.314 92.162 89.075 85.005 83.008 81.044
- HIP 103635** Ref: 93.015
- HIP 103640** Ref: 94.189
- HIP 103641** Ref: 94.188
- HIP 103646** Ref: 95.445
- HIP 103652** Ref: 95.445 95.684 94.206 93.057
- HIP 103654** Ref: 95.445
- HIP 103655** Ref: 95.341 94.265 93.018 93.118  
Comments: Variability doubtful.
- HIP 103656** Ref: 95.482 93.190 91.190 85.084 84.087 81.076 81.103 71.018 64.009 61.005 60.002 22.006 7.001
- HIP 103663** Ref: 95.697
- HIP 103671** Ref: 94.189
- HIP 103673** Ref: 95.445 94.056 93.050
- HIP 103682** Ref: 95.432 95.445 93.050
- HIP 103684** Ref: 95.347 94.191 93.161 90.024 86.001 80.047
- HIP 103700** Comments: Long-term variations (600d).
- HIP 103732** Ref: 91.109 86.106  
Comments: Previous classification as type E does not seem likely.
- HIP 103734** Ref: 95.419 93.015
- HIP 103736** Ref: 80.033
- HIP 103755** Ref: 95.378 95.697 94.236 94.282 94.286 94.409 93.111 93.128 91.090 82.054 77.031 66.008 66.011 66.015 22.006 7.001
- HIP 103763** Ref: 95.042 95.077 95.098 95.213 95.630 95.652 94.049 94.088 94.211 94.317 94.326 87.173 80.010
- HIP 103777** Ref: 95.684 83.020
- HIP 103792** Ref: 93.126
- HIP 103801** Ref: 94.189
- HIP 103814** Ref: 95.445
- HIP 103819** Ref: 95.445
- HIP 103825** Ref: 94.189
- HIP 103828** Ref: 95.499 93.093 91.197 90.117  
Comments: Period  $p = 36d$  not confirmed.
- HIP 103833** Ref: 95.430 95.702 95.742 94.017 94.047 94.265 94.419 93.064 93.118 92.111 92.154 92.217 91.105 91.133 90.007 90.038 87.105 87.112 87.154 85.100 85.124 85.130 82.070 81.049 67.002
- HIP 103836** Ref: 95.445
- HIP 103883** Comments: Possibly EA type, but insufficient data for period determination.
- HIP 103890** Ref: 93.092
- HIP 103891** Ref: 94.542
- HIP 103899** Ref: 95.347
- HIP 103900** Ref: 94.189
- HIP 103929** Ref: 94.175 94.216
- HIP 103933** Comments: Possible period  $p = 63.29d$ .
- HIP 103942** Ref: 94.189
- HIP 103963** Ref: 93.015
- HIP 103968** Ref: 85.204
- HIP 103972** Ref: 95.445
- HIP 103981** Ref: 95.684 94.189
- HIP 103987** Ref: 94.188 94.371 94.407
- HIP 104002** Ref: 85.084 84.087 80.068 71.018 67.012 67.013 67.014 64.009 61.005 60.002 33.001 30.013 22.006 7.001
- HIP 104015** Ref: 88.020 86.141 85.222 74.036 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 104019** Ref: 95.684
- HIP 104026** Ref: 91.102
- HIP 104029** Ref: 95.347 94.191 88.096 87.144 86.027 86.146 84.038 82.050 80.016  
Comments: Period in Ref 94.191 confirmed.
- HIP 104043** Ref: 94.265
- HIP 104060** Ref: 95.419
- HIP 104092** Ref: 94.407
- HIP 104101** Ref: 95.399 95.432 95.445 93.050
- HIP 104105** Ref: 95.515
- HIP 104139** Ref: 95.314 95.684 95.704 94.189 94.311 94.423 93.211 91.102
- HIP 104151** Ref: 95.445
- HIP 104171** Ref: 93.015
- HIP 104185** Ref: 95.039 95.411 95.447 94.176 94.177 94.301 93.146 92.110 91.190 89.050 87.106 86.002 85.084 84.087 80.054 77.040 71.002 71.018 68.012 64.009 51.001
- HIP 104189** Ref: 95.445
- HIP 104191** Ref: 95.122 95.235 95.441 95.442 95.445 95.541 95.697 94.043 94.389 93.006 91.059
- HIP 104194** Ref: 95.419
- HIP 104199** Ref: 95.445
- HIP 104214** Ref: 95.124 95.163 95.193 95.268 95.277 95.427 95.470 95.475 95.498 95.510 95.557 95.631 95.661 95.671 95.698 94.007 94.188 94.257 94.410
- HIP 104217** Ref: 95.277 95.475 95.510 95.631 95.671 95.698 94.007 94.188 94.257
- HIP 104234** Ref: 94.204
- HIP 104252** Ref: 95.230 94.051 94.196 30.013 22.006 7.001  
Comments: Long-term variations ( $> 800d$ ) observed.
- HIP 104263** Ref: 95.726 92.076
- HIP 104265** Ref: 95.445
- HIP 104281** Ref: 95.445
- HIP 104285** Ref: 88.020 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 104290** Ref: 85.074  
Comments: Suspected type ELL ( $p = 0.248331d$ ) in Ref 85.074.
- HIP 104294** Ref: 95.432 95.445 94.056 93.050
- HIP 104297** Ref: 95.684 94.189
- HIP 104298** Ref: 95.445 93.050
- HIP 104316** Ref: 95.388 95.632
- HIP 104320** Ref: 94.370
- HIP 104340** Ref: 94.189
- HIP 104341** Ref: 94.189
- HIP 104353** Ref: 94.189
- HIP 104365** Ref: 95.684
- HIP 104371** Ref: 95.684 79.028 78.006  
Comments: Possibly double this period.
- HIP 104382** Ref: 95.347 94.191 90.024  
Comments: Confirmation of period in Ref 94.191.
- HIP 104396** Ref: 94.406
- HIP 104437** Ref: 95.445
- HIP 104440** Ref: 95.445
- HIP 104451** Ref: 95.387 95.550 95.588 95.692 94.204 93.081 89.031 88.020 86.141 85.222 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 104452** Ref: 95.445
- HIP 104459** Ref: 93.015
- HIP 104478** Comments: Period and possible type determined. Noisy light curve.
- HIP 104483** Comments: Poor time coverage of cycle.
- HIP 104485** Ref: 87.121
- HIP 104486** Ref: 95.419 94.374 94.407



<b>HIP 104505</b> Ref: 94.189	<b>HIP 105091</b> Ref: 85.074 76.039
<b>HIP 104506</b> Ref: 74.036	Comments: No confirmation of period from Ref
<b>HIP 104516</b> Ref: 95.684	85.074. Possible period $p = 2.5069d$ .
<b>HIP 104521</b> Ref: 95.222 95.320 95.321 95.327 95.704	<b>HIP 105102</b> Ref: 95.523 95.690
94.127 94.182 94.202 94.423 93.211 91.053 91.102	<b>HIP 105116</b> Ref: 94.406
84.043 83.031 71.003 71.016	<b>HIP 105131</b> Ref: 94.189
<b>HIP 104538</b> Ref: 95.684 95.704 94.423 93.211 91.102	<b>HIP 105138</b> Ref: 94.403
<b>HIP 104539</b> Ref: 95.684	<b>HIP 105140</b> Ref: 95.684 94.311
<b>HIP 104542</b> Ref: 95.268	<b>HIP 105143</b> Ref: 94.189
<b>HIP 104564</b> Ref: 94.203 85.084 84.087 71.018 64.009	<b>HIP 105162</b> Comments: Period may be half.
60.002	<b>HIP 105165</b> Ref: 94.189
<b>HIP 104573</b> Ref: 93.038 92.152 89.097 88.035 87.105	<b>HIP 105168</b> Ref: 95.445 95.684 94.189
<b>HIP 104579</b> Ref: 93.126	<b>HIP 105184</b> Ref: 94.084 91.102
Comments: Possible period given in Ref 93.126	<b>HIP 105186</b> Ref: 95.388 95.660 95.683 94.357 94.367
( $p = 0.10809d$ ) not confirmed.	86.157 82.097
<b>HIP 104592</b> Ref: 94.406	<b>HIP 105199</b> Ref: 95.543 95.684 94.349 71.014
<b>HIP 104599</b> Ref: 95.388	<b>HIP 105200</b> Ref: 95.357 94.134 94.257 93.118
<b>HIP 104604</b> Comments: Period may be double this value.	<b>HIP 105214</b> Ref: 95.386 95.445 94.084
<b>HIP 104613</b> Ref: 95.297 95.378 95.697 94.236 94.282	<b>HIP 105224</b> Ref: 95.389 95.392
94.286 90.023 77.031 73.024 66.011 66.015 22.006	Comments: No confirmation of period from Ref
<b>HIP 104634</b> Ref: 95.347 95.684 94.189 94.191 90.024	95.389.
89.163 83.020	<b>HIP 105228</b> Ref: 95.445
Comments: Confirmation of period from Ref 94.191.	<b>HIP 105229</b> Ref: 95.684
<b>HIP 104642</b> Ref: 95.388 94.206 94.209 76.039	<b>HIP 105237</b> Ref: 95.686
<b>HIP 104659</b> Ref: 95.087 95.122 95.182 95.193 95.235	<b>HIP 105259</b> Ref: 95.419 94.206 91.194
95.379 95.383 95.445 95.664 95.691 94.043 94.270	<b>HIP 105267</b> Ref: 94.189
94.346 94.407 93.050	<b>HIP 105268</b> Ref: 95.388 94.403 93.109
<b>HIP 104660</b> Ref: 95.122 95.193 95.235 94.043	<b>HIP 105269</b> Ref: 95.039 95.447 95.580 94.206 94.301
<b>HIP 104670</b> Ref: 94.189	93.146 92.110 92.137 88.108 87.106
<b>HIP 104680</b> Ref: 95.445	<b>HIP 105285</b> Ref: 95.697 94.191 94.409 89.024 86.001
<b>HIP 104695</b> Ref: 94.357	86.064 82.041 77.031 66.011 66.015
<b>HIP 104717</b> Ref: 95.498	Comments: Confirmation of period from Ref 94.191.
<b>HIP 104732</b> Ref: 95.062 95.259 94.036 94.148 93.015	<b>HIP 105292</b> Ref: 94.189
<b>HIP 104738</b> Ref: 93.015	<b>HIP 105303</b> Ref: 92.162
<b>HIP 104755</b> Ref: 94.204	<b>HIP 105310</b> Ref: 94.174
Comments: Possible periods $p = 2.0595d$ or	<b>HIP 105312</b> Ref: 95.445 94.084 94.257
$p = 7.068d$ .	<b>HIP 105315</b> Ref: 94.189
<b>HIP 104756</b> Ref: 95.684	<b>HIP 105319</b> Ref: 95.684
<b>HIP 104765</b> Ref: 95.684	<b>HIP 105324</b> Comments: The double-star analysis indicates
<b>HIP 104771</b> Ref: 95.684	that it may be the fainter (B) component which is
<b>HIP 104788</b> Ref: 94.134	variable. Other notes: D.
<b>HIP 104839</b> Ref: 94.189	<b>HIP 105333</b> Ref: 94.189
<b>HIP 104858</b> Ref: 95.313 95.704 94.206 94.257 94.423	<b>HIP 105334</b> Ref: 94.196 91.102 30.013 22.006 7.001
93.211 91.102	<b>HIP 105369</b> Ref: 95.039 95.411 94.301 91.190 88.108
<b>HIP 104861</b> Ref: 94.460	85.084 84.087 77.040 71.018 67.012 67.013 67.014
<b>HIP 104872</b> Ref: 95.445	64.009 60.002
<b>HIP 104877</b> Ref: 91.190 88.108 85.084 84.087 80.068	<b>HIP 105370</b> Ref: 95.062 93.015
71.018 64.009 61.005 60.002	<b>HIP 105382</b> Ref: 95.684 94.202 91.053 84.043 83.031
<b>HIP 104887</b> Ref: 95.347 95.357 95.684 91.044 87.177	74.016
71.014	Comments: Period from Ref 84.043 confirmed.
<b>HIP 104894</b> Ref: 93.073 93.092 93.118 90.059	<b>HIP 105406</b> Ref: 95.430 94.047 94.248 94.265 93.118
Comments: Period $p = 0.698d$ not recognised. No	<b>HIP 105411</b> Ref: 95.644 94.407
periodicity detected.	<b>HIP 105431</b> Ref: 95.372
<b>HIP 104918</b> Ref: 94.189	<b>HIP 105432</b> Ref: 95.684
<b>HIP 104930</b> Ref: 95.297 95.378 95.697 94.236 94.282	<b>HIP 105436</b> Ref: 94.189
94.286 94.409 93.111 93.128 91.090 82.054 77.031	<b>HIP 105437</b> Ref: 89.147 68.002
22.006	<b>HIP 105464</b> Comments: Possible eclipse feature at JD
<b>HIP 104963</b> Ref: 95.558 85.090	2 448 530.
<b>HIP 104968</b> Ref: 95.062	<b>HIP 105478</b> Ref: 96.007
<b>HIP 104978</b> Ref: 95.684	<b>HIP 105481</b> Ref: 94.189
<b>HIP 104986</b> Ref: 95.697 64.009 61.002	<b>HIP 105485</b> Ref: 93.146 71.018 64.009
Comments: No periodicity detected.	<b>HIP 105498</b> Ref: 88.020 22.006 7.001
<b>HIP 104987</b> Ref: 95.062 94.175 94.216 93.015 93.092	<b>HIP 105515</b> Ref: 95.389 95.392 95.698 94.175 94.216
89.060	93.015 90.059 85.090
<b>HIP 105019</b> Comments: Period uncertain.	Comments: No confirmation of period from Ref
<b>HIP 105026</b> Ref: 95.697 94.236 77.031 66.011 66.015	95.389. Possible period $p = 4.1331d$ .
22.006	<b>HIP 105539</b> Ref: 30.013 22.006 7.001
<b>HIP 105042</b> Ref: 94.189	<b>HIP 105561</b> Ref: 95.684
<b>HIP 105046</b> Ref: 95.445	<b>HIP 105562</b> Ref: 95.332 92.162
<b>HIP 105058</b> Comments: Possibly E type.	<b>HIP 105570</b> Ref: 95.684
<b>HIP 105064</b> Ref: 95.684	<b>HIP 105580</b> Ref: 95.445
<b>HIP 105072</b> Ref: 95.004	<b>HIP 105581</b> Comments: Possible period $p = 10.14d$ .
<b>HIP 105079</b> Ref: 95.684 94.189	<b>HIP 105583</b> Ref: 93.092
<b>HIP 105080</b> Ref: 95.062 85.090	<b>HIP 105614</b> Ref: 95.577 95.601 95.629 94.055 94.356
<b>HIP 105090</b> Ref: 95.102 94.410	<b>HIP 105616</b> Ref: 94.280

- HIP 105624** Ref: 95.129 95.460 95.546  
**HIP 105633** Ref: 94.189  
**HIP 105638** Ref: 88.020 22.006 7.001  
**HIP 105640** Ref: 94.367  
**HIP 105652** Ref: 95.684 93.015  
**HIP 105653** Ref: 93.010 86.002 84.048 82.035 77.040  
 71.018 67.012 67.013 67.014 58.001 58.003  
 Comments: Period has increased.  
**HIP 105660** Ref: 95.684  
**HIP 105665** Ref: 95.419 94.259  
**HIP 105668** Ref: 95.445 95.684 94.189  
**HIP 105678** Ref: 95.581 94.167 94.196 22.006  
**HIP 105684** Ref: 94.189  
**HIP 105695** Ref: 94.289 93.015  
**HIP 105696** Ref: 95.684 94.202  
**HIP 105703** Ref: 95.684 93.015  
**HIP 105712** Ref: 94.084  
**HIP 105729** Ref: 95.684  
**HIP 105733** Ref: 95.684 84.043  
**HIP 105739** Ref: 95.359 93.167 89.097 87.105 84.149  
 68.008 66.003  
**HIP 105761** Ref: 95.445 95.684  
**HIP 105769** Ref: 95.684  
**HIP 105782** Ref: 94.189  
**HIP 105788** Ref: 94.432  
**HIP 105811** Ref: 95.080 95.672 95.672  
 Comments: Possible period  $p = 2.5390d$ .  
**HIP 105819** Ref: 96.007 95.033 95.060 95.684 94.046  
 93.026  
**HIP 105858** Ref: 95.087 95.122 95.298 95.379 95.399  
 95.698 94.043 94.056 94.410 93.050  
**HIP 105860** Ref: 95.134 95.347 95.684 94.191 94.253  
 94.265 94.528 90.024  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 105862** Ref: 94.189  
**HIP 105864** Ref: 96.007  
**HIP 105881** Ref: 95.062 95.499 95.567 94.036 94.148  
 93.211 91.102 88.079  
**HIP 105882** Ref: 89.097 88.110  
**HIP 105888** Ref: 95.122 95.193 94.043  
**HIP 105898** Ref: 95.222 95.684 94.194 94.202 84.135  
 81.045  
**HIP 105905** Ref: 95.445  
**HIP 105913** Ref: 95.684  
**HIP 105928** Ref: 93.211 91.102  
**HIP 105930** Ref: 95.558  
**HIP 105946** Ref: 94.189  
**HIP 105949** Ref: 94.542  
**HIP 105966** Ref: 95.684  
**HIP 105993** Ref: 95.445  
**HIP 106013** Ref: 93.092 93.118  
 Comments: No confirmation of period from Ref  
 93.118. Period possibly spurious.  
**HIP 106016** Ref: 94.189  
**HIP 106024** Ref: 91.096 91.143 87.052 78.036  
**HIP 106032** Ref: 95.092 95.107 95.146 94.019 94.097  
 94.206 92.043 90.158 85.019 85.091 82.049 81.022  
 80.029 75.016 70.012 53.005  
 Comments: Confirmation of period from Ref 80.029.  
**HIP 106036** Ref: 95.558  
**HIP 106039** Ref: 93.015 93.211 91.102  
**HIP 106044** Ref: 94.196 94.204  
**HIP 106059** Ref: 95.142 95.550 95.590 94.232  
**HIP 106062** Comments: Possible period  $p = 45.37d$ .  
**HIP 106070** Ref: 94.189  
**HIP 106071** Ref: 87.121  
**HIP 106077** Comments: Possible period  $p = 4.780d$ .  
**HIP 106095** Ref: 95.433 95.445 95.691 95.697 93.130  
**HIP 106140** Ref: 94.180 94.204  
**HIP 106143** Ref: 94.189  
**HIP 106145** Comments: Possible period  $p = 1.4782d$ .  
**HIP 106147** Ref: 94.407  
**HIP 106170** Ref: 94.209  
**HIP 106171** Ref: 95.684  
**HIP 106205** Ref: 84.136  
**HIP 106226** Ref: 94.158 92.083 91.055 90.076 87.105  
 85.156 67.006  
**HIP 106227** Ref: 76.039  
**HIP 106231** Ref: 95.727 94.265  
 Comments: Ref 95.727: epoch of maximum JD  
 2 449 909.806, period  $p = 0.4236d$ .  
**HIP 106232** Comments: Possible period  $p = 18.33d$ .  
**HIP 106241** Ref: 94.175 94.216 93.092 90.059  
**HIP 106251** Ref: 94.189  
**HIP 106262** Ref: 94.209  
**HIP 106264** Ref: 94.189  
**HIP 106267** Ref: 93.043  
**HIP 106270** Ref: 94.209  
**HIP 106278** Ref: 95.468 95.698  
**HIP 106288** Ref: 95.445  
**HIP 106293** Ref: 94.209  
**HIP 106297** Ref: 95.728  
 Comments: Ref 95.728: a probable binary, possible  
 period  $p = 113.2d$ .  
**HIP 106306** Ref: 94.036 94.148  
**HIP 106320** Ref: 95.558  
**HIP 106329** Ref: 94.209  
**HIP 106335** Ref: 95.389 95.445 94.053 94.138 94.248  
 89.060  
**HIP 106340** Ref: 95.684  
**HIP 106346** Ref: 94.209  
**HIP 106354** Ref: 94.189  
**HIP 106355** Ref: 95.684 94.202 94.213 83.061  
**HIP 106360** Comments: Possible period  $p = 26.90d$ .  
**HIP 106363** Ref: 95.684  
**HIP 106382** Ref: 94.189  
**HIP 106393** Ref: 95.684  
**HIP 106417** Ref: 94.191 94.286 92.071 90.024 83.023  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 106420** Ref: 95.419  
**HIP 106440** Ref: 94.410  
**HIP 106456** Ref: 94.189  
**HIP 106468** Ref: 95.433 95.445  
**HIP 106481** Ref: 94.224 93.015  
**HIP 106490** Ref: 94.407  
**HIP 106497** Ref: 94.145 93.073 93.092 93.118 89.060  
**HIP 106551** Ref: 95.390 94.148 94.209  
**HIP 106559** Ref: 95.445 95.704 94.189 94.423 93.211  
 91.102  
**HIP 106560** Ref: 95.122 95.445 94.043  
**HIP 106565** Comments: Fainter than expected (1.5 mag).  
**HIP 106568** Ref: 94.189  
**HIP 106574** Ref: 95.726 94.061 85.096 65.005 30.013  
**HIP 106576** Ref: 94.189  
**HIP 106579** Comments: Possible period  $p = 29.74d$ .  
**HIP 106583** Ref: 95.509 95.514 95.581 94.418 88.020  
 86.141 30.013 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 106586** Ref: 94.056 93.050  
**HIP 106595** Ref: 95.684  
**HIP 106599** Comments: The variable star LU Cep is  
 located 1.0 arcmin W.  
**HIP 106605** Ref: 95.684 94.206  
**HIP 106642** Ref: 95.230 95.332 95.419 92.162 30.012  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 106645** Ref: 95.378 95.697 94.236 93.111 93.128  
 77.031 66.008 22.006  
**HIP 106649** Ref: 94.236  
**HIP 106652** Comments: Possible SR period  $p = 38.14d$ .  
**HIP 106654** Ref: 95.684  
**HIP 106673** Ref: 94.189  
**HIP 106690** Ref: 95.686 92.162 22.006  
**HIP 106711** Ref: 95.684  
**HIP 106712** Ref: 94.367  
**HIP 106723** Ref: 95.325 95.704 94.179 94.189 94.423  
 93.211 91.053 91.102 89.029 84.043  
**HIP 106724** Ref: 95.697  
**HIP 106739** Comments: Possible period  $p = 1.4882d$ .

<b>HIP 106741</b> Ref: 94.189	<b>HIP 107242</b> Ref: 95.361 30.012 22.006 7.001
<b>HIP 106749</b> Ref: 95.122 95.445 94.043 94.407	<b>HIP 107253</b> Ref: 95.684 95.686
<b>HIP 106752</b> Ref: 95.684	<b>HIP 107259</b> Ref: 95.065 95.181 95.319 95.387 95.419
<b>HIP 106754</b> Ref: 80.068 71.018 64.009	95.550 95.661 92.162 92.208 90.021 89.021 85.025
<b>HIP 106758</b> Ref: 95.684	85.220 83.081 82.010 30.012 22.006 7.001
<b>HIP 106764</b> Ref: 94.189	Comments: Possible confirmation of period $p = 730d$ .
<b>HIP 106768</b> Ref: 94.189	<b>HIP 107302</b> Ref: 95.684 94.189 83.020
<b>HIP 106771</b> Ref: 95.062	<b>HIP 107310</b> Ref: 94.257
<b>HIP 106783</b> Ref: 95.684	<b>HIP 107315</b> Ref: 95.268 95.419 95.625 94.148 94.264
<b>HIP 106786</b> Ref: 95.684	93.029 89.055
<b>HIP 106787</b> Ref: 95.684 93.015	Comments: Smaller range of variations than
<b>HIP 106801</b> Ref: 95.080 95.338 95.523 94.055 94.367	expected.
76.039	<b>HIP 107324</b> Ref: 94.189
<b>HIP 106825</b> Ref: 95.445	<b>HIP 107337</b> Ref: 95.433 95.445 95.697
<b>HIP 106831</b> Ref: 94.189	<b>HIP 107344</b> Ref: 95.697 94.280
<b>HIP 106848</b> Ref: 94.406	<b>HIP 107348</b> Ref: 95.388
<b>HIP 106856</b> Ref: 95.563 95.684	<b>HIP 107350</b> Ref: 95.064 95.124 95.268 95.277 95.285
<b>HIP 106881</b> Ref: 95.445	95.399 95.445 95.671 94.007 93.064 86.111
<b>HIP 106886</b> Ref: 95.149 95.251 95.388 95.550 94.367	<b>HIP 107354</b> Ref: 94.206
<b>HIP 106890</b> Comments: The third component of HD	<b>HIP 107374</b> Ref: 94.367
206276 at 11.3 arcsec from the primary. Light	<b>HIP 107380</b> Ref: 95.684
contamination from the primary probable. Variability	<b>HIP 107390</b> Ref: 74.036 22.006
suspect. Other notes: G.	Comments: Ephemeris based on AAVSO data.
<b>HIP 106896</b> Ref: 95.388	<b>HIP 107392</b> Ref: 94.189
<b>HIP 106897</b> Ref: 95.684	<b>HIP 107418</b> Ref: 95.621 95.684 94.407
<b>HIP 106913</b> Ref: 95.386 95.445	<b>HIP 107428</b> Ref: 95.445
<b>HIP 106937</b> Ref: 95.022 95.515	<b>HIP 107473</b> Comments: Possible period $p = 550d$ .
<b>HIP 106947</b> Ref: 94.188	Eclipse-like features in light curve.
<b>HIP 106956</b> Ref: 95.004	<b>HIP 107487</b> Ref: 94.196 92.011
<b>HIP 106961</b> Ref: 95.430 94.269 93.118 92.081 90.059	<b>HIP 107488</b> Ref: 95.684
89.060 87.030	<b>HIP 107490</b> Ref: 22.006
Comments: Period from Ref 90.059 confirmed.	<b>HIP 107516</b> Ref: 95.230 95.581 94.196 94.407 92.011
<b>HIP 106981</b> Ref: 92.152 91.096 84.079 84.149 81.084	<b>HIP 107517</b> Ref: 95.684
80.028 70.003	<b>HIP 107525</b> Ref: 91.053 84.043
<b>HIP 106985</b> Ref: 95.327 95.684 94.189 94.202 83.020	Comments: Period from Ref 84.043 confirmed.
<b>HIP 106999</b> Ref: 95.661 94.542	<b>HIP 107533</b> Ref: 94.055 94.209
<b>HIP 107004</b> Ref: 95.347 94.191	<b>HIP 107555</b> Ref: 95.684
Comments: Data inadequate for confirmation of	<b>HIP 107556</b> Ref: 95.684 94.189 94.265 94.530 92.190
period from Ref 94.191.	87.137 83.020
<b>HIP 107010</b> Ref: 95.087 95.122	<b>HIP 107562</b> Ref: 94.189
<b>HIP 107027</b> Ref: 95.629 94.055 94.189 93.091	<b>HIP 107575</b> Ref: 95.684
<b>HIP 107036</b> Ref: 95.230 30.013 22.006 7.001	<b>HIP 107594</b> Ref: 94.189 84.043
Comments: Ephemeris based on AAVSO data.	<b>HIP 107596</b> Ref: 95.684
<b>HIP 107078</b> Ref: 95.378 95.697 94.236 93.111 93.128	<b>HIP 107598</b> Ref: 95.388 95.632
66.008 66.024	<b>HIP 107607</b> Ref: 95.445 95.697
<b>HIP 107083</b> Ref: 95.061 95.157 95.715 95.740 94.262	<b>HIP 107608</b> Ref: 95.684
94.487 93.061 93.230 93.233 90.027 90.133 87.069	<b>HIP 107610</b> Ref: 94.189
85.050 84.056 83.068 83.083 80.028 75.029 66.006	<b>HIP 107611</b> Ref: 95.004
<b>HIP 107088</b> Ref: 94.189	<b>HIP 107649</b> Ref: 95.445 94.084
<b>HIP 107089</b> Ref: 93.092	<b>HIP 107704</b> Ref: 94.406
<b>HIP 107095</b> Ref: 95.389 95.392 94.189 94.265 94.419	<b>HIP 107714</b> Ref: 94.189
93.073 93.118 89.060	<b>HIP 107724</b> Ref: 94.189
Comments: No confirmation of period from Ref	<b>HIP 107749</b> Ref: 95.338 95.523 95.684 95.690
95.389.	<b>HIP 107750</b> Ref: 95.684
<b>HIP 107097</b> Ref: 95.684	<b>HIP 107763</b> Ref: 95.684
<b>HIP 107129</b> Ref: 95.361	<b>HIP 107788</b> Ref: 94.206
Comments: Possible period $p = 158d$ .	<b>HIP 107848</b> Ref: 95.190 95.209 95.292 95.324 95.548
<b>HIP 107140</b> Ref: 95.332 92.162	94.197 94.202 94.404 93.137 90.064 89.092 88.048
<b>HIP 107156</b> Comments: Wrongly identified with SS Cyg	86.120 85.150 85.180 85.230 30.013
in Hipparcos Input Catalogue. Other notes: G.	<b>HIP 107856</b> Ref: 91.053 84.043
<b>HIP 107162</b> Ref: 95.684 94.206	<b>HIP 107864</b> Ref: 95.016 95.088 95.264 94.251
<b>HIP 107164</b> Ref: 95.063	<b>HIP 107887</b> Ref: 94.202
<b>HIP 107173</b> Comments: Possible period $p = 1.4353d$ .	<b>HIP 107893</b> Ref: 95.684
<b>HIP 107196</b> Comments: Possible confirmation of period	<b>HIP 107899</b> Ref: 94.177 91.190 85.084 84.087 77.040
$p = 934d$ .	71.018 64.009 61.005 60.002 40.003 22.006 7.001
<b>HIP 107207</b> Ref: 95.077 94.049 94.211 94.326	<b>HIP 107901</b> Ref: 94.189
Comments: Wrongly identified with V0361 Cep in	<b>HIP 107913</b> Ref: 93.256
Hipparcos Input Catalogue. Other notes: G.	<b>HIP 107930</b> Ref: 84.140
<b>HIP 107210</b> Ref: 94.189	<b>HIP 107935</b> Ref: 95.378 95.379 95.401 95.697 94.236
<b>HIP 107230</b> Ref: 95.331	94.409 93.111 91.090 90.052 84.143 66.008 66.025
<b>HIP 107231</b> Ref: 95.140 95.347 95.770 94.191 93.161	<b>HIP 107960</b> Ref: 95.412 78.022
90.024 86.001 83.023 66.011	<b>HIP 107975</b> Ref: 95.087 95.122 95.432 95.671 95.684
Comments: Confirmation of period from Ref 94.191.	94.043 94.407 93.050
<b>HIP 107232</b> Ref: 95.684 94.189 83.020	<b>HIP 107983</b> Ref: 95.042 95.077 95.342 94.004 94.049
<b>HIP 107238</b> Ref: 95.445 95.684 94.189 83.020	94.211 94.212 94.326 94.355 94.405

- HIP 107984** Ref: 94.209  
**HIP 108017** Ref: 91.053 84.043  
**HIP 108022** Ref: 94.328  
 Comments: Possible periods  $p = 1.2473d$  and  $p = 2.2455d$ .  
**HIP 108036** Ref: 95.684  
**HIP 108052** Ref: 76.039  
**HIP 108056** Ref: 94.188  
**HIP 108057** Ref: 94.236  
**HIP 108060** Ref: 95.684  
**HIP 108073** Ref: 92.181 85.074 84.093 82.074 80.064 76.039  
 Comments: Confirmation of period from Ref 85.074.  
**HIP 108080** Ref: 95.515 95.632 94.209 76.039  
**HIP 108085** Ref: 94.311  
**HIP 108090** Ref: 93.015  
**HIP 108102** Ref: 95.445  
**HIP 108108** Ref: 94.189  
**HIP 108128** Ref: 94.432  
 Comments: Possible period  $p = 215.5d$ .  
**HIP 108132** Ref: 95.697 94.280  
**HIP 108133** Comments: Possible period  $p = 23.47d$ .  
**HIP 108144** Ref: 95.445  
**HIP 108165** Ref: 95.338  
**HIP 108168** Ref: 95.445  
**HIP 108183** Comments: Much brighter than expected, misidentification?  
**HIP 108195** Ref: 93.211 91.102  
**HIP 108198** Ref: 95.389 95.392  
 Comments: Possible confirmation of period from Ref 95.389.  
**HIP 108205** Ref: 93.169  
**HIP 108222** Comments: Measurements of D component perturbed by the neighbour HIP 108227 (C) and the bright AB component HIP 108230,  $V = 7.60$ , at 34.4 arcsec. Variability of D spurious.  
**HIP 108226** Ref: 95.063  
**HIP 108281** Ref: 83.020  
**HIP 108294** Ref: 95.684  
**HIP 108317** Ref: 95.419 93.150 93.274 92.068 91.050 89.002 87.033 81.032 81.104 81.105 79.008 78.013 30.013  
 Comments: No minima covered during the mission.  
**HIP 108327** Ref: 94.189  
**HIP 108339** Ref: 95.684  
**HIP 108340** Ref: 91.053 85.042 84.043  
**HIP 108347** Ref: 95.347 94.191 90.024 85.003  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 108348** Ref: 95.684  
 Comments: Period may be double.  
**HIP 108361** Ref: 95.697  
**HIP 108364** Ref: 95.338  
**HIP 108402** Ref: 95.143  
**HIP 108426** Ref: 95.411 95.447 93.134 93.146 92.110 91.190 88.064 86.002 77.040 76.026  
**HIP 108427** Ref: 94.203 93.146 71.018 64.009 62.001  
**HIP 108431** Ref: 95.684  
**HIP 108453** Ref: 95.445 93.015  
**HIP 108461** Ref: 94.265 92.111 90.059  
**HIP 108473** Ref: 95.445 94.256 94.259  
**HIP 108478** Ref: 95.445 93.211 91.102 88.017 86.042 84.100 84.109  
**HIP 108490** Ref: 95.383 94.407 93.050  
**HIP 108506** Ref: 95.445  
**HIP 108508** Ref: 88.105 84.149 78.009 74.010  
**HIP 108535** Ref: 95.658 93.075  
**HIP 108553** Ref: 95.684  
**HIP 108578** Ref: 94.251  
**HIP 108584** Ref: 95.347 94.191 90.024 82.071  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 108606** Ref: 92.152 91.096 91.175 84.149 78.036 64.011 64.013  
**HIP 108612** Ref: 94.370  
**HIP 108622** Ref: 94.189  
**HIP 108626** Ref: 95.684  
**HIP 108630** Ref: 95.447 91.190 85.084 84.087 80.068 71.018 64.009 62.001 51.001 40.003  
**HIP 108644** Ref: 95.249 94.047 93.092 93.118 92.111 89.060  
**HIP 108646** Comments: Period may be double, secondary minimum doubtful.  
**HIP 108650** Ref: 95.022  
**HIP 108661** Ref: 89.029  
**HIP 108728** Ref: 95.268 95.430 95.694 94.040 94.047 94.091 94.134 94.419 93.118 92.111 92.154 89.097 87.101 87.105 86.049 85.051 85.124 85.209 24.004 22.006  
**HIP 108733** Ref: 95.249  
**HIP 108736** Ref: 95.445  
**HIP 108748** Ref: 95.445  
**HIP 108768** Comments: Double star with 25.5 arcsec separation. Variability partly spurious.  
**HIP 108772** Ref: 95.338 95.388 94.055 94.357 91.209 85.074 76.039  
 Comments: Confirmation of period from Ref 85.074.  
**HIP 108797** Ref: 95.684 94.189 76.023  
**HIP 108809** Ref: 94.111  
**HIP 108839** Ref: 94.261 82.041 73.024  
 Comments: Period has increased.  
**HIP 108845** Ref: 95.684 91.053 84.043  
**HIP 108870** Ref: 95.698 94.259 94.410  
**HIP 108874** Ref: 95.325 89.029  
**HIP 108875** Ref: 94.028 93.048 93.062  
**HIP 108876** Ref: 93.211 91.102 90.119 22.006 7.001  
**HIP 108917** Ref: 95.684 94.206 94.253  
**HIP 108924** Ref: 94.204  
**HIP 108928** Ref: 95.230 95.332 95.581 30.013 22.006  
**HIP 108975** Ref: 89.029  
**HIP 108981** Ref: 93.145 92.076 91.145 90.096 22.006  
 Comments: The disappearance of the eclipsing amplitude between 1890 and 1984 may be due to change in inclination of orbital plane (Ref 91.145). Hipparcos data confirm disappearance of eclipses.  
**HIP 108991** Ref: 95.445 95.684 93.003 93.066 93.097 83.020  
**HIP 109002** Ref: 95.062 95.268 95.583 95.694 95.702 94.089 94.134 94.145 94.395 94.419 93.092 93.118 92.111 92.162 92.191 91.007 89.060 85.069 85.193 84.140 84.170 70.006  
**HIP 109017** Ref: 95.204 95.338 95.388 94.367  
**HIP 109033** Ref: 95.332 94.204 92.011  
**HIP 109044** Ref: 95.703  
**HIP 109051** Ref: 95.629 94.189  
**HIP 109056** Ref: 95.684  
**HIP 109067** Ref: 94.188  
**HIP 109068** Ref: 95.390 95.661  
**HIP 109070** Ref: 95.203 95.230 95.332 95.581 30.013 22.006  
 Comments: Possible period  $p = 160.7d$ .  
**HIP 109074** Ref: 95.419 95.468 95.698  
**HIP 109079** Ref: 95.684  
**HIP 109082** Ref: 90.034 85.074  
 Comments: According to Ref 85.074 suspected ELL, period  $p = 2.1727d$ .  
**HIP 109085** Ref: 95.729  
**HIP 109089** Ref: 95.303 95.309 95.361 95.509 94.418 88.020 30.013 22.006 7.001  
**HIP 109121** Ref: 95.684  
**HIP 109124** Ref: 95.684 94.194 94.253 91.053 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 109127** Ref: 94.206  
**HIP 109139** Ref: 94.189 94.311  
**HIP 109176** Ref: 95.658 95.691 94.407 85.193 84.140  
**HIP 109190** Ref: 93.015  
**HIP 109193** Comments: Period uncertain.  
**HIP 109205** Ref: 95.523 95.684 95.690  
**HIP 109238** Ref: 90.087  
 Comments: Possible period  $p = 2.26757d$ .

<b>HIP 109265</b> Ref: 95.099 95.612 94.367	<b>HIP 110003</b> Ref: 94.259
<b>HIP 109268</b> Ref: 95.012 95.313 95.314 95.388 95.553 94.311	<b>HIP 110035</b> Ref: 95.445
<b>HIP 109273</b> Ref: 92.162	<b>HIP 110078</b> Ref: 95.684
<b>HIP 109276</b> Ref: 95.684	<b>HIP 110099</b> Ref: 94.196 22.006
<b>HIP 109285</b> Ref: 95.684 94.447	<b>HIP 110103</b> Ref: 95.062 85.090
<b>HIP 109303</b> Ref: 95.006 95.062 95.164 95.226 95.268 95.430 95.586 95.596 95.628 95.699 95.715 94.040 94.047 94.125 94.134 94.140 94.144 94.265 94.419 93.079 93.092 93.118 93.189 93.193 92.111 92.192 91.182 90.104 89.011 87.001 87.010 87.014 86.013 86.123 85.144 85.193 84.049 84.050 84.129 84.140 84.170 83.018 82.087 75.029 65.005 64.013	<b>HIP 110112</b> Ref: 95.332 22.006
<b>HIP 109306</b> Ref: 95.033 95.060 94.447 93.026	<b>HIP 110116</b> Ref: 95.684
<b>HIP 109340</b> Ref: 95.447 91.190 90.150 88.108 85.084 84.087 77.040 71.018 64.009 62.001 51.001 22.006	<b>HIP 110125</b> Ref: 95.100 95.133 95.183 95.515
<b>HIP 109352</b> Ref: 95.477	<b>HIP 110130</b> Ref: 93.092
<b>HIP 109354</b> Comments: Period uncertain.	<b>HIP 110146</b> Ref: 88.020 22.006
<b>HIP 109376</b> Comments: Possible period $p = 4.297d$ .	<b>HIP 110154</b> Ref: 95.013 95.111 94.022 94.152 93.152 Comments: No confirmation of period from Ref 93.152. Possible period $p = 1.7352d$ .
<b>HIP 109378</b> Ref: 95.386 95.445	<b>HIP 110188</b> Comments: Possible period $p = 63.9d$ .
<b>HIP 109382</b> Comments: Possible period $p = 2.2218d$ .	<b>HIP 110213</b> Ref: 94.236 94.409 93.128 Comments: Photometry disturbed by fainter companions.
<b>HIP 109390</b> Ref: 95.697 94.188	<b>HIP 110251</b> Comments: Possible period $p = 1.3786d$ .
<b>HIP 109404</b> Ref: 95.684	<b>HIP 110256</b> Ref: 94.204 92.011
<b>HIP 109410</b> Ref: 94.064 94.224 93.015	<b>HIP 110271</b> Ref: 95.423 95.697
<b>HIP 109412</b> Ref: 95.684	<b>HIP 110287</b> Ref: 94.357
<b>HIP 109414</b> Ref: 94.206	<b>HIP 110319</b> Ref: 94.189
<b>HIP 109420</b> Ref: 94.191 86.001 83.023	<b>HIP 110341</b> Ref: 95.445
Comments: Confirmation of period from Ref 94.191.	<b>HIP 110346</b> Comments: Possible period $p = 4.737d$ .
<b>HIP 109427</b> Ref: 95.125 95.141 95.150 95.684 94.202 94.311 78.008	<b>HIP 110351</b> Ref: 76.039
<b>HIP 109439</b> Ref: 94.188	<b>HIP 110362</b> Ref: 95.388
<b>HIP 109442</b> Ref: 95.684 84.170	<b>HIP 110386</b> Ref: 94.403
<b>HIP 109458</b> Ref: 95.684	<b>HIP 110395</b> Ref: 95.563 94.189
<b>HIP 109466</b> Ref: 95.445 84.170	<b>HIP 110396</b> Ref: 7.001
<b>HIP 109472</b> Ref: 95.152 94.189	<b>HIP 110462</b> Ref: 95.694 93.118 85.193 Comments: Possible period $p = 7.0030d$ .
<b>HIP 109492</b> Ref: 95.388	<b>HIP 110468</b> Ref: 95.445
Comments: Possibly E type, with period $p = 7.475d$ .	<b>HIP 110478</b> Ref: 95.303 95.309 93.093 93.095
<b>HIP 109493</b> Ref: 95.684	<b>HIP 110483</b> Ref: 95.445
<b>HIP 109505</b> Comments: The double-star analysis indicates that it may be the fainter (B) component which is variable. Other notes: D.	<b>HIP 110493</b> Ref: 81.011 80.037
<b>HIP 109509</b> Ref: 95.445	<b>HIP 110498</b> Ref: 95.684
<b>HIP 109521</b> Ref: 95.684	<b>HIP 110504</b> Ref: 95.387 95.661 30.012 22.006
<b>HIP 109554</b> Ref: 95.525	<b>HIP 110506</b> Ref: 95.445 95.684
<b>HIP 109556</b> Ref: 95.388 95.550 95.683 94.357 94.367	<b>HIP 110509</b> Ref: 93.081 88.020 22.006 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 109558</b> Ref: 95.122 95.235 95.383 95.433 95.445 94.043 94.053 94.138 94.188 94.206 94.244 94.407	<b>HIP 110512</b> Ref: 95.445
<b>HIP 109572</b> Ref: 95.432 94.134 93.050	<b>HIP 110514</b> Ref: 92.076 91.024 91.096 87.024 87.027 86.059
<b>HIP 109606</b> Comments: Possible periods $p = 5.775d$ and $p = 213d$ .	<b>HIP 110518</b> Ref: 94.406
<b>HIP 109610</b> Ref: 93.192 88.020 30.013 22.006 7.001 Comments: Ephemeris based on AAVSO data.	<b>HIP 110525</b> Ref: 95.388
<b>HIP 109646</b> Ref: 94.056 93.050	<b>HIP 110532</b> Ref: 95.558 93.015 93.057
<b>HIP 109647</b> Ref: 95.445	<b>HIP 110561</b> Ref: 94.406
<b>HIP 109667</b> Ref: 95.684	<b>HIP 110566</b> Ref: 94.134
<b>HIP 109693</b> Ref: 95.684	<b>HIP 110569</b> Comments: Possible period $p = 556.0d$ .
<b>HIP 109695</b> Ref: 94.265	<b>HIP 110578</b> Ref: 95.684
<b>HIP 109717</b> Ref: 95.445	<b>HIP 110602</b> Ref: 93.015
<b>HIP 109745</b> Ref: 95.684	<b>HIP 110609</b> Ref: 95.388 94.188 94.209
<b>HIP 109754</b> Ref: 95.141 95.390 85.090	<b>HIP 110616</b> Ref: 92.044 84.043
<b>HIP 109793</b> Ref: 95.697	<b>HIP 110617</b> Ref: 95.697
<b>HIP 109802</b> Comments: Possible period $p = 90.8d$ .	<b>HIP 110618</b> Ref: 95.087 95.122 95.235 95.445 94.043 94.084
<b>HIP 109821</b> Ref: 95.386 95.445 94.084	<b>HIP 110619</b> Ref: 95.445
<b>HIP 109822</b> Ref: 95.445 94.407	<b>HIP 110624</b> Ref: 94.202 91.053 85.042 85.045 84.043 Comments: Period from Ref 85.045 not confirmed.
<b>HIP 109831</b> Ref: 95.684	<b>HIP 110649</b> Ref: 95.445 94.084 94.259
<b>HIP 109857</b> Ref: 95.347 95.483 95.684 94.191 93.100 90.024 79.031 71.014	<b>HIP 110672</b> Ref: 95.571 95.615 94.189 94.314 94.544 90.158 88.016 84.033 81.014 75.021
Comments: Possible period $p = 0.0539d$ .	<b>HIP 110697</b> Ref: 95.692 88.020 82.043 81.016 77.027 22.006 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 109890</b> Ref: 95.379 95.697 94.123 94.191 94.409 93.111 90.142 88.039 88.045 86.001 86.064 84.143 83.125 82.041 81.064 77.031	<b>HIP 110719</b> Ref: 95.445
Comments: Period from Ref 94.191 confirmed.	<b>HIP 110736</b> Ref: 95.692 93.192 89.031 88.020 82.043 22.006 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 109927</b> Ref: 94.189	<b>HIP 110746</b> Ref: 95.684
<b>HIP 109939</b> Ref: 95.684	<b>HIP 110778</b> Ref: 95.698 94.084 94.257
<b>HIP 109984</b> Ref: 95.684	<b>HIP 110785</b> Ref: 95.445 95.671 94.257
	<b>HIP 110787</b> Ref: 95.684
	<b>HIP 110817</b> Ref: 95.388

- HIP 110821** Ref: 95.445  
**HIP 110838** Ref: 95.515 94.311  
**HIP 110842** Comments: Possibly EA type.  
**HIP 110843** Ref: 95.445  
**HIP 110882** Ref: 95.141 95.419 94.188  
**HIP 110893** Ref: 95.341 94.265 94.380 89.059 88.063  
**HIP 110933** Ref: 94.202  
**HIP 110935** Ref: 95.684  
**HIP 110964** Ref: 88.108 81.076 71.018 64.009 62.001 61.005  
**HIP 110972** Ref: 95.588 95.692 93.081 88.020 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 110991** Ref: 95.561 94.177 94.293 94.375 94.376 94.377 93.035 92.110 88.023 88.028 86.141 85.084 85.222 84.087 83.086 82.009 80.054 80.068 71.018 68.012 64.009 62.001 51.001 47.002 46.001 40.003 35.001 22.006 7.001  
 Comments: Disturbed by component at 20 arcsec (HIP 110988).  
**HIP 110996** Ref: 95.445  
**HIP 110997** Ref: 94.259 94.542  
**HIP 111022** Ref: 93.150  
**HIP 111032** Ref: 95.729  
**HIP 111041** Ref: 95.684 95.729 94.191 91.067  
 Comments: Data inadequate for confirmation of period from Ref 94.191.  
**HIP 111043** Ref: 94.204 94.542  
**HIP 111045** Ref: 95.445 95.684  
**HIP 111056** Ref: 95.684  
**HIP 111066** Ref: 95.445  
**HIP 111072** Ref: 95.062 95.268 95.416 95.429 95.694 95.702 94.145 94.419 93.092 93.118 89.060 85.074 85.193 84.140  
 Comments: Period from Ref 85.074 confirmed.  
**HIP 111079** Ref: 94.189  
**HIP 111086** Ref: 95.684  
**HIP 111088** Ref: 94.407  
**HIP 111094** Ref: 84.146  
 Comments: Possible misidentification.  
**HIP 111104** Ref: 94.209 76.039  
**HIP 111123** Ref: 95.137 95.684  
**HIP 111138** Ref: 89.029  
**HIP 111161** Ref: 94.367  
**HIP 111166** Ref: 95.726 91.096 87.040 78.036 70.015  
**HIP 111169** Ref: 95.684 94.209 94.224  
**HIP 111170** Ref: 95.445 94.206 94.257  
**HIP 111171** Ref: 93.092  
**HIP 111188** Ref: 95.684  
**HIP 111191** Ref: 95.200 95.347 95.684 94.191 93.110 93.157 92.052 90.024  
**HIP 111200** Ref: 95.684 83.020  
**HIP 111225** Ref: 95.697  
**HIP 111228** Ref: 95.697 94.271 94.280  
**HIP 111242** Ref: 95.684  
**HIP 111257** Ref: 91.070 90.062 84.183 65.005 64.011  
**HIP 111259** Ref: 95.684  
**HIP 111272** Ref: 95.445  
**HIP 111278** Ref: 95.684  
**HIP 111310** Ref: 94.204 94.542  
**HIP 111314** Ref: 93.015  
**HIP 111325** Ref: 95.684  
**HIP 111349** Ref: 95.386  
**HIP 111362** Ref: 95.062 92.162  
**HIP 111365** Comments: Possible period  $p = 4.196d$ .  
**HIP 111372** Ref: 95.433 95.445 95.697  
**HIP 111385** Ref: 93.192 22.006  
 Comments: Ephemeris based on AAVSO data.  
**HIP 111394** Ref: 95.445  
**HIP 111400** Ref: 91.053 84.042 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 111443** Ref: 95.373  
**HIP 111449** Ref: 93.015  
**HIP 111452** Ref: 88.021 87.100 82.021  
**HIP 111454** Comments: Possible period  $p = 6.300d$ .  
**HIP 111497** Ref: 94.189  
**HIP 111506** Ref: 95.040 95.137 95.529 95.558 94.120  
**HIP 111532** Ref: 94.289  
**HIP 111543** Ref: 95.684  
**HIP 111544** Ref: 80.056  
**HIP 111550** Ref: 94.209  
**HIP 111551** Ref: 95.343  
**HIP 111558** Ref: 95.445  
**HIP 111563** Ref: 95.629 94.055 93.091  
**HIP 111565** Ref: 95.386  
**HIP 111581** Comments: Possible period  $p = 23.22d$ .  
**HIP 111592** Ref: 93.150 30.013 22.006 7.001  
**HIP 111601** Ref: 95.684  
**HIP 111610** Comments: Possible period  $p = 12.34d$ .  
**HIP 111633** Ref: 95.111 95.174 95.507 94.022 94.491 90.055 88.031 87.178 86.065 86.135 85.063 84.020 83.006 83.089 83.097 82.044  
**HIP 111643** Ref: 95.684  
**HIP 111655** Ref: 95.697 94.280  
**HIP 111674** Ref: 95.684 94.209  
**HIP 111687** Comments: Possibly E type.  
**HIP 111719** Ref: 95.140 95.418 94.191 94.217 94.286 94.507 94.531 93.122 90.024 90.123 88.053 86.001 86.006 85.119 85.197 84.180 83.023 77.031 75.011 75.026 73.001 72.012 66.011 66.015 41.003  
 Comments: Confirmation of period from Ref 94.191.  
**HIP 111730** Ref: 95.445 95.697  
**HIP 111746** Ref: 95.445  
**HIP 111783** Ref: 94.188  
**HIP 111785** Ref: 94.211  
**HIP 111795** Ref: 95.417  
**HIP 111797** Ref: 95.684  
**HIP 111802** Ref: 95.343 94.265 94.380 94.410 94.423 93.118 91.054 89.059  
**HIP 111805** Ref: 94.206 94.257  
**HIP 111809** Ref: 95.684 83.020  
**HIP 111810** Ref: 95.385 95.419 85.090  
**HIP 111833** Ref: 95.347 94.191 90.024 85.003  
 Comments: Possible confirmation of period from Ref 94.191.  
**HIP 111839** Ref: 95.697 94.409 93.128 86.064 83.092 82.041 82.054 66.014 66.024 35.001 30.013 22.006  
**HIP 111841** Ref: 95.155 95.191 95.388 95.515 95.632 94.209 76.039  
**HIP 111849** Ref: 91.053 84.043 78.038  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 111856** Comments: Possible period  $p = 26.67d$ .  
**HIP 111858** Comments: Identification error.  
 BD +39 4907 is located 25 arcsec at N. Spurious variability. Other notes: G.  
**HIP 111866** Ref: 94.406  
**HIP 111869** Ref: 94.289  
**HIP 111879** Ref: 95.445  
**HIP 111884** Ref: 95.684 94.191  
 Comments: Possible period  $p = 0.05414d$ .  
**HIP 111910** Ref: 94.209  
**HIP 111932** Comments: Optical pair separated by 16 arcsec. Variability spurious.  
**HIP 111946** Ref: 88.020 77.027 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 111954** Ref: 94.311  
**HIP 111965** Ref: 95.445 94.206  
**HIP 111966** Ref: 95.445  
**HIP 111972** Ref: 95.447 95.580 93.146 93.280 91.190 89.158 88.108 85.084 84.087 81.076 81.103 71.018 64.009 62.001 51.001 40.003 30.013 22.003 22.006  
**HIP 111974** Ref: 95.498  
**HIP 112009** Ref: 74.017 22.006  
**HIP 112022** Ref: 95.388  
**HIP 112026** Ref: 95.447 94.177 93.146 93.190 91.190 88.108 85.084 84.087 81.076 80.068 71.018 64.009 62.001 51.001 40.003 22.003 22.006  
**HIP 112029** Ref: 95.125 95.515

- HIP 112031** Ref: 95.388 94.006 94.019 94.055 94.070  
92.042 85.019 85.091 81.022 75.016 62.002 62.003  
57.002 53.005 53.006
- HIP 112051** Ref: 95.280 95.323 95.566 95.684 94.253  
93.003 93.042
- HIP 112057** Ref: 95.230 95.686 94.196  
Comments: Possible period  $p = 124.7d$ .
- HIP 112058** Comments: Period related to  $p = 3.593d$ .
- HIP 112070** Ref: 95.697
- HIP 112117** Ref: 95.445 94.084
- HIP 112122** Ref: 95.599 94.264 94.290
- HIP 112155** Ref: 94.196
- HIP 112158** Ref: 95.385 93.092
- HIP 112168** Ref: 95.684
- HIP 112170** Ref: 95.004 94.206
- HIP 112179** Ref: 95.684
- HIP 112203** Ref: 94.259
- HIP 112211** Ref: 95.137
- HIP 112222** Ref: 95.445
- HIP 112227** Ref: 93.093 93.095
- HIP 112229** Ref: 95.432 94.056 94.188 93.050
- HIP 112241** Ref: 95.062
- HIP 112247** Ref: 95.014 95.321 95.327 95.339 94.202  
91.053 84.043 83.061 73.015  
Comments: Period from Ref 84.043 confirmed.
- HIP 112259** Ref: 95.445
- HIP 112292** Ref: 22.006  
Comments: Possible period  $p = 460d$ .
- HIP 112316** Comments: About 1 mag brighter than  
expected. Other notes: G.
- HIP 112317** Ref: 92.152 91.096 84.043 67.017 65.005  
64.011 64.013
- HIP 112321** Ref: 94.189
- HIP 112324** Ref: 94.406
- HIP 112355** Ref: 95.347 94.191 90.024  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 112376** Ref: 94.189
- HIP 112394** Ref: 30.013
- HIP 112405** Ref: 95.684
- HIP 112407** Ref: 94.407
- HIP 112414** Ref: 95.445
- HIP 112417** Ref: 95.684
- HIP 112418** Ref: 95.137
- HIP 112420** Comments: Possible period  $p = 4.20168d$ .
- HIP 112430** Ref: 94.177 93.212 85.084 84.087 80.068  
71.018 64.009 62.001 60.002
- HIP 112436** Ref: 94.106 93.033 90.133 80.028
- HIP 112440** Ref: 95.268 95.390 95.419 93.015
- HIP 112447** Ref: 95.383 95.432 95.644 93.050
- HIP 112449** Ref: 83.020
- HIP 112457** Ref: 95.697 94.280
- HIP 112460** Ref: 95.025 95.127 95.226 95.240 95.330  
95.562 95.699 94.007 94.076 94.258 94.265 94.267  
94.410 94.420 93.001 91.069 91.176 89.059 88.120  
87.109 87.125 87.133 87.143 86.074 86.084 85.104  
84.060 84.200 83.122
- HIP 112470** Ref: 94.150 91.091 91.125 86.098 85.074  
76.039  
Comments: Confirmation of period from Ref 85.074.
- HIP 112482** Ref: 95.571 94.055 93.091
- HIP 112504** Ref: 95.445
- HIP 112508** Ref: 95.684
- HIP 112529** Ref: 93.015
- HIP 112545** Ref: 95.230 95.387 93.150 22.006 7.001
- HIP 112554** Ref: 95.445
- HIP 112558** Ref: 94.211 76.039
- HIP 112562** Ref: 95.286 91.096 91.097 90.005 89.005  
89.122 86.121 86.138 80.058 75.029
- HIP 112573** Comments: Possible period  $p = 28.83d$ .
- HIP 112613** Ref: 95.445 95.697
- HIP 112615** Ref: 95.347 95.684 94.191 90.024  
Comments: Data inadequate for confirmation of  
period from Ref 94.191.
- HIP 112623** Ref: 95.684 94.311
- HIP 112626** Ref: 93.146 93.190 91.190 88.108 85.084  
84.087 77.040 71.018 64.009 62.001 61.005 60.002  
40.003 22.003 22.006 7.001
- HIP 112675** Ref: 95.039 94.177 94.301 93.146 91.190  
88.108 85.084 84.087 80.068 71.018 64.009 62.001  
61.005 60.002 40.003 22.003 22.006
- HIP 112680** Ref: 22.006
- HIP 112714** Ref: 95.445 95.684
- HIP 112716** Ref: 94.204
- HIP 112724** Ref: 95.390 95.625 95.661
- HIP 112748** Ref: 95.003 95.062 95.390 95.595 94.224  
93.015 93.028
- HIP 112778** Ref: 85.074 76.039
- HIP 112781** Ref: 94.028 93.048 93.062
- HIP 112784** Ref: 95.499 74.036 22.006  
Comments: Ephemeris based on AAVSO data.
- HIP 112796** Ref: 95.445 95.697 93.130
- HIP 112821** Ref: 95.567
- HIP 112832** Ref: 94.204
- HIP 112868** Ref: 30.013
- HIP 112882** Comments: Possible period  $p = 2.0902d$ .
- HIP 112917** Ref: 94.209
- HIP 112928** Ref: 95.740 92.076
- HIP 112935** Ref: 95.383 95.432 95.445 95.671 94.407  
93.015 93.050
- HIP 112947** Ref: 95.022 76.039
- HIP 112948** Ref: 95.684
- HIP 112961** Ref: 94.204
- HIP 112969** Ref: 94.202 84.043 81.051
- HIP 112990** Ref: 95.388
- HIP 112994** Ref: 95.335 95.378 95.697 94.236 94.282  
94.286 94.409 93.111 93.128 77.031
- HIP 112997** Ref: 95.006 95.062 95.268 94.134 94.419  
93.092 93.118 92.111 89.060 87.062 85.193 84.140  
84.170
- HIP 113009** Ref: 93.126  
Comments: Possible confirmation of period from Ref  
93.126.
- HIP 113013** Comments: Possibly EA type.
- HIP 113017** Ref: 95.077 94.049 94.211 88.094 76.039  
Comments: Possible misidentification. No sign of  
eclipses. Other notes: D.
- HIP 113031** Ref: 95.323 94.202 85.042 85.045
- HIP 113044** Ref: 95.445
- HIP 113048** Ref: 95.684 94.206 94.209
- HIP 113052** Ref: 95.438 95.715 94.391 94.430 93.283  
92.144 92.154 91.155 91.192 87.105 86.077 85.108  
85.124 85.131 84.141 83.060 74.035 66.018 65.005  
64.011 64.013 58.002 31.001 30.013 24.006 23.001  
22.004
- HIP 113113** Ref: 95.445
- HIP 113127** Ref: 94.188
- HIP 113131** Ref: 95.499 93.093 93.095 92.011  
Comments: Possible period  $p = 50.76d$ .
- HIP 113136** Ref: 95.280 95.684
- HIP 113137** Ref: 95.445 94.259
- HIP 113167** Ref: 95.684
- HIP 113174** Ref: 95.385
- HIP 113184** Ref: 95.445
- HIP 113186** Ref: 95.563 95.684
- HIP 113190** Ref: 94.186
- HIP 113191** Ref: 94.186
- HIP 113218** Ref: 95.022
- HIP 113231** Ref: 95.193 95.445 94.188
- HIP 113234** Ref: 95.445
- HIP 113246** Ref: 94.259
- HIP 113252** Ref: 30.012
- HIP 113269** Ref: 95.072 95.161 95.333 93.121 85.154
- HIP 113281** Ref: 95.009 94.019 93.153 93.156 85.215  
83.019 83.032 81.022 75.016 53.005  
Comments: No confirmation of period from Ref  
81.022.
- HIP 113283** Ref: 95.277 95.445 94.410
- HIP 113288** Ref: 95.661
- HIP 113296** Ref: 94.410

<b>HIP 113306</b> Ref: 95.022 95.146 95.649	<b>HIP 113999</b> Ref: 95.632 94.357
<b>HIP 113307</b> Ref: 95.684 83.020	<b>HIP 114000</b> Ref: 93.030
<b>HIP 113311</b> Ref: 95.684	<b>HIP 114012</b> Ref: 92.076 91.155
<b>HIP 113327</b> Ref: 95.095 95.267 95.325 92.010 92.162 87.022 84.099 80.056 71.023	<b>HIP 114025</b> Ref: 93.118 92.055 85.193 Comments: No confirmation of period from Ref 92.055.
<b>HIP 113330</b> Ref: 94.432	<b>HIP 114031</b> Ref: 95.686
<b>HIP 113357</b> Ref: 95.432 95.671 95.705 95.706 95.707 94.256 93.050 93.213	<b>HIP 114046</b> Ref: 94.410
<b>HIP 113368</b> Ref: 95.012 95.033 95.145 95.185 95.313 95.515 95.563 95.606 95.684 94.234 94.311 94.410	<b>HIP 114070</b> Ref: 95.388 95.632
<b>HIP 113371</b> Ref: 95.632 94.209	<b>HIP 114094</b> Comments: Possible period $p = 15.49d$ .
<b>HIP 113385</b> Ref: 92.076 84.044 82.028	<b>HIP 114104</b> Ref: 95.388 94.055 94.367
<b>HIP 113390</b> Ref: 95.230 94.196	<b>HIP 114114</b> Ref: 95.319 95.588 93.081 89.031 88.020 22.006 7.001 Comments: Ephemeris based on AAVSO data.
<b>HIP 113405</b> Ref: 95.230 30.013 22.006	<b>HIP 114131</b> Ref: 83.020
<b>HIP 113410</b> Comments: Period possibly spurious.	<b>HIP 114132</b> Ref: 95.684
<b>HIP 113433</b> Ref: 95.445	<b>HIP 114144</b> Ref: 94.204 94.407
<b>HIP 113447</b> Ref: 95.445	<b>HIP 114154</b> Ref: 95.273 91.119 90.061 89.049 86.120 85.087 84.165 80.056
<b>HIP 113461</b> Ref: 92.090 90.012 82.053	<b>HIP 114155</b> Ref: 95.268 95.419 94.036 94.148
<b>HIP 113465</b> Ref: 95.684 94.189	<b>HIP 114160</b> Ref: 95.447 85.084 84.087 81.076 80.068 71.018 62.001 61.005 60.002 40.003 22.006
<b>HIP 113478</b> Ref: 93.118 85.162 85.193 84.140	<b>HIP 114161</b> Ref: 94.206
<b>HIP 113503</b> Ref: 95.684	<b>HIP 114163</b> Ref: 93.126
<b>HIP 113532</b> Ref: 95.684	<b>HIP 114174</b> Ref: 94.037 94.209
<b>HIP 113561</b> Ref: 95.066 95.388 95.644 95.661 94.407 93.250 92.012 92.162 91.151 88.056 88.104 88.123 87.165 86.105 86.125 85.169 85.170 Comments: Ref 92.012: 2 or 3 periods with changing amplitudes (1986–1991).	<b>HIP 114175</b> Comments: Possibly E type.
<b>HIP 113575</b> Ref: 95.445 94.280	<b>HIP 114187</b> Ref: 95.684
<b>HIP 113576</b> Ref: 94.410	<b>HIP 114189</b> Ref: 95.684 95.732 95.739 95.754 86.091 Comments: Possible alternative period $p = 0.39267d$ .
<b>HIP 113598</b> Ref: 93.118 92.111	<b>HIP 114200</b> Ref: 94.209
<b>HIP 113603</b> Ref: 95.684	<b>HIP 114210</b> Ref: 95.399 95.432 94.209 93.050 73.017
<b>HIP 113610</b> Ref: 95.445	<b>HIP 114212</b> Ref: 94.206 93.126 76.039
<b>HIP 113621</b> Ref: 95.684	<b>HIP 114222</b> Ref: 94.289 93.015 93.092
<b>HIP 113640</b> Ref: 93.126 80.056	<b>HIP 114237</b> Ref: 95.684 94.209
<b>HIP 113673</b> Ref: 95.684	<b>HIP 114252</b> Ref: 95.341 94.380
<b>HIP 113678</b> Ref: 95.697	<b>HIP 114258</b> Ref: 95.684
<b>HIP 113711</b> Ref: 95.704 94.202 94.423 94.520	<b>HIP 114266</b> Ref: 94.189
<b>HIP 113715</b> Ref: 22.006 Comments: Decrease in brightness by 0.7 mag over the mission, mostly between JD 2 448 100 and 2 448 600. Other notes: D.	<b>HIP 114273</b> Ref: 95.445 95.558 94.407
<b>HIP 113718</b> Ref: 94.162	<b>HIP 114276</b> Ref: 94.056 93.050
<b>HIP 113726</b> Ref: 95.112 95.252 95.267 94.206 94.314 94.367 94.403 94.544 92.038 88.059 86.115 84.126 84.130 84.175 80.056 79.039 77.032 72.003	<b>HIP 114286</b> Ref: 95.445
<b>HIP 113729</b> Ref: 92.112	<b>HIP 114290</b> Ref: 95.140 95.347 95.418 94.191 94.217 94.286 93.122 93.161 90.024 90.123 87.115 86.001 86.012 86.023 86.041 86.141 85.110 85.222 83.023 75.027 48.002 46.004 Comments: Period from Ref 94.191 confirmed.
<b>HIP 113738</b> Ref: 92.076 90.114 86.141 83.054	<b>HIP 114305</b> Comments: Possibly EA type.
<b>HIP 113753</b> Ref: 95.388	<b>HIP 114318</b> Ref: 95.332 30.013 22.006 7.001
<b>HIP 113774</b> Ref: 95.704 94.423	<b>HIP 114322</b> Ref: 95.445
<b>HIP 113783</b> Ref: 95.684 93.015	<b>HIP 114329</b> Ref: 88.015 80.056 76.039
<b>HIP 113788</b> Ref: 95.009 95.150 95.684 94.206 94.209 94.314 93.057	<b>HIP 114347</b> Ref: 95.303 94.189 94.196 93.093 93.095 92.011 86.136 78.046
<b>HIP 113797</b> Ref: 91.053 85.175 84.043 Comments: Period from Ref 84.043 confirmed. Other notes: D.	<b>HIP 114349</b> Ref: 95.445 94.188
<b>HIP 113801</b> Ref: 95.445	<b>HIP 114360</b> Ref: 95.445 94.280
<b>HIP 113853</b> Ref: 93.126 Comments: Period from Ref 93.126 confirmed.	<b>HIP 114365</b> Ref: 95.684
<b>HIP 113860</b> Ref: 95.513 95.684 74.013	<b>HIP 114371</b> Ref: 95.684
<b>HIP 113864</b> Ref: 85.090	<b>HIP 114375</b> Ref: 95.684
<b>HIP 113881</b> Ref: 95.181 95.353 95.398 95.484 95.499 95.625 94.243 94.264 92.008 7.001	<b>HIP 114378</b> Ref: 94.406
<b>HIP 113888</b> Ref: 95.445 95.697 94.280	<b>HIP 114379</b> Ref: 94.265 94.419 93.118 89.059
<b>HIP 113889</b> Ref: 95.104 94.189 94.403	<b>HIP 114382</b> Ref: 95.445
<b>HIP 113896</b> Ref: 95.445 95.644 94.407	<b>HIP 114398</b> Ref: 94.189
<b>HIP 113897</b> Comments: Some indication of eclipses.	<b>HIP 114408</b> Ref: 95.343
<b>HIP 113904</b> Ref: 95.445 93.057	<b>HIP 114421</b> Ref: 93.092
<b>HIP 113907</b> Ref: 96.009 95.089 95.276 95.715 93.033 93.233 91.047 91.096 90.020 87.157 76.020	<b>HIP 114426</b> Ref: 95.445
<b>HIP 113919</b> Ref: 94.209	<b>HIP 114430</b> Ref: 95.399 93.015
<b>HIP 113963</b> Ref: 95.012 95.684	<b>HIP 114443</b> Ref: 95.445
<b>HIP 113969</b> Ref: 93.015	<b>HIP 114453</b> Ref: 95.445
<b>HIP 113989</b> Ref: 95.386	<b>HIP 114482</b> Ref: 95.388 95.494
<b>HIP 113994</b> Ref: 95.445	<b>HIP 114484</b> Ref: 95.369 95.430 95.694 95.725 95.745 95.753 94.047 94.239 94.444 94.476 93.118 92.121 91.124 91.175 90.105 90.127 89.054 89.097 89.129 88.057 88.101 87.105 85.124 81.007 79.022 79.036 78.036 67.016 65.005 64.011 64.013 31.001 22.006 7.001
<b>HIP 113996</b> Ref: 93.015	<b>HIP 114487</b> Ref: 95.697
	<b>HIP 114502</b> Ref: 95.122 95.445 94.043



- HIP 114507** Ref: 35.002 22.006 7.001  
**HIP 114508** Ref: 95.275 95.359 95.438 95.726 94.031  
 94.195 94.523 93.219 91.204 90.127 87.105 85.124  
 84.141 81.067 75.017 73.018 69.010 50.003 30.007  
 30.013 29.002 28.002  
**HIP 114509** Ref: 95.686  
**HIP 114515** Ref: 95.692 94.379 88.020 86.141 85.222  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 114520** Ref: 95.684  
**HIP 114537** Ref: 87.121  
**HIP 114550** Ref: 95.558  
**HIP 114570** Ref: 95.379 95.658 95.684 94.209  
**HIP 114576** Ref: 94.257  
**HIP 114622** Ref: 95.383 95.631 95.644 95.698 94.256  
 94.407 94.410  
**HIP 114639** Ref: 95.164 95.268 95.307 95.430 95.716  
 94.018 94.047 94.134 94.141 94.145 94.419 93.118  
 92.093 92.111 92.162 87.078 87.085 85.093 85.211  
 84.015 84.050 82.092 81.057  
**HIP 114661** Ref: 95.122 95.235 94.043 94.188  
**HIP 114678** Ref: 95.343 95.558 93.073  
**HIP 114685** Ref: 95.388  
**HIP 114690** Ref: 95.493 94.055 93.091  
**HIP 114698** Comments: Possible period  $p = 12.039d$ .  
**HIP 114699** Ref: 95.343 95.445  
**HIP 114714** Ref: 95.684  
**HIP 114724** Ref: 94.204  
**HIP 114725** Ref: 93.015  
**HIP 114745** Ref: 95.684  
**HIP 114757** Ref: 22.006  
**HIP 114761** Ref: 95.697  
**HIP 114817** Ref: 94.448  
**HIP 114822** Ref: 95.684  
**HIP 114831** Ref: 95.208 95.366 95.684 94.191 93.245  
 93.258  
 Comments: Period close to period in Ref 94.191.  
**HIP 114855** Ref: 95.249 95.390 94.407  
**HIP 114889** Comments: Possible period  $p = 1.0611d$ .  
**HIP 114904** Ref: 94.448 93.126 85.008  
 Comments: Period from Ref 85.008 confirmed.  
**HIP 114917** Comments: Possible period  $p = 240d$ .  
**HIP 114924** Ref: 95.432 93.050  
**HIP 114930** Ref: 7.001  
**HIP 114939** Ref: 94.204 92.162  
**HIP 114944** Ref: 93.118 89.060 86.149 85.226  
**HIP 114948** Ref: 95.272 95.445  
**HIP 114962** Ref: 95.122 95.193 95.235 95.445 94.043  
 94.188 94.270 94.371 94.407  
**HIP 114969** Comments: Possible period  $p = 3.491d$ .  
**HIP 114971** Ref: 94.259 93.015  
**HIP 114980** Ref: 95.445  
**HIP 114984** Ref: 95.684  
**HIP 114985** Comments: Possible period  $p = 130.4d$ .  
**HIP 114986** Ref: 95.445  
**HIP 114990** Ref: 95.022 95.388  
**HIP 114996** Ref: 95.379 93.015  
**HIP 115012** Ref: 95.445  
**HIP 115015** Ref: 95.684  
**HIP 115022** Ref: 94.407  
**HIP 115033** Ref: 94.403 89.029  
**HIP 115036** Ref: 95.125 95.223 95.288 95.327 95.684  
 94.044 94.202 93.221 91.053 85.086 85.105 84.043  
 84.088 80.045 78.038 77.021  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 115046** Ref: 95.697 94.172 94.511 93.128 93.148  
 78.012 30.012  
 Comments: Multi-period variable.  $P_0$  and  $P_1$   
 recognised in the data.  
**HIP 115051** Ref: 95.684  
**HIP 115054** Ref: 95.445  
**HIP 115065** Ref: 95.684 82.002  
**HIP 115115** Ref: 95.143 95.684  
**HIP 115120** Ref: 95.684 94.209  
**HIP 115126** Ref: 95.124 95.277 95.510 95.671  
**HIP 115135** Ref: 95.378 95.697 94.236 93.111 93.128  
 77.031 73.024 66.011 66.015  
**HIP 115142** Ref: 95.445  
**HIP 115147** Ref: 94.265 92.049 91.032 85.217  
 Comments: No confirmation of period from Ref  
 92.049.  
**HIP 115167** Ref: 95.433 95.445 94.188  
**HIP 115188** Ref: 95.588 95.692 88.020 85.222 70.009  
 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 115200** Ref: 85.147 85.193 84.106 84.140  
**HIP 115227** Ref: 94.148 85.090  
**HIP 115242** Ref: 95.588 88.020 85.222 22.006 7.001  
**HIP 115245** Ref: 95.062  
**HIP 115250** Ref: 95.150 95.334 95.347 95.349 95.684  
 94.191 92.097 91.009 90.024 87.176 71.014  
 Comments: Confirmation of period from Ref 94.191.  
**HIP 115260** Comments: Possible period  $p = 0.1084d$ .  
**HIP 115261** Ref: 95.684  
**HIP 115267** Ref: 80.033  
**HIP 115269** Ref: 94.186  
**HIP 115272** Ref: 94.186  
**HIP 115280** Ref: 95.432 93.050  
**HIP 115312** Ref: 95.445 94.111 94.248 94.265  
**HIP 115340** Ref: 95.445 95.697 94.271 94.280  
**HIP 115390** Ref: 95.447 71.018 64.009 62.001  
**HIP 115404** Ref: 95.684  
**HIP 115433** Ref: 94.542  
**HIP 115445** Ref: 95.386 95.445  
**HIP 115510** Ref: 94.191 93.168  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 115529** Ref: 94.206  
**HIP 115541** Comments: Possible period  $p = 0.88292d$ .  
**HIP 115542** Ref: 95.431  
**HIP 115550** Ref: 95.347 95.446 94.191  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 115553** Ref: 94.196 30.013 22.006 7.001  
 Comments: Possible period  $p = 70.4d$ .  
**HIP 115567** Ref: 95.684  
**HIP 115609** Comments: Possible period  $p = 1.2248d$ .  
**HIP 115623** Ref: 95.062 95.064 95.379 95.698 94.188  
 94.289 93.015  
**HIP 115647** Comments: Period may be double.  
**HIP 115649** Ref: 95.433 95.445 95.697  
**HIP 115678** Ref: 95.208  
**HIP 115704** Ref: 94.389  
**HIP 115713** Ref: 95.445  
**HIP 115729** Ref: 95.629 93.091  
**HIP 115738** Ref: 95.327 95.684 94.202 91.023 89.142  
 84.043 83.059 71.003  
**HIP 115741** Ref: 94.202  
**HIP 115746** Ref: 95.684  
**HIP 115757** Comments: Possibly EA type.  
**HIP 115768** Ref: 93.015  
**HIP 115770** Ref: 95.208 95.684  
**HIP 115771** Ref: 95.433 95.445 95.697  
**HIP 115792** Ref: 95.704 94.423  
**HIP 115806** Ref: 95.684 84.043  
**HIP 115819** Ref: 87.146 85.198 84.101  
 Comments: Period has increased.  
**HIP 115830** Ref: 95.390  
**HIP 115839** Ref: 95.445  
**HIP 115844** Comments: Possible period  $p = 14.9d$ .  
**HIP 115863** Comments: Possibly EA type.  
**HIP 115870** Ref: 95.297 95.371 95.378 95.379 95.697  
 94.123 94.236 93.111 93.128 92.099 89.024 82.054  
 77.031 73.024 66.011 66.015  
**HIP 115908** Ref: 95.272 95.684 91.053 85.042 85.045  
 84.043  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 115919** Ref: 93.015 85.090  
**HIP 115925** Ref: 71.018 64.009 62.001

- HIP 115943** Comments: Measurements perturbed by the bright neighbour HIP 115950 at 30.0 arcsec E. Variability probably spurious.
- HIP 115949** Ref: 95.433 95.445 95.697 93.130
- HIP 115953** Ref: 95.390 95.445 95.644 94.259 94.407
- HIP 115955** Ref: 95.445
- HIP 115965** Ref: 95.686 93.095
- HIP 115986** Ref: 22.006
- HIP 115990** Ref: 91.096  
Comments: Period from Ref 91.096 confirmed.
- HIP 115996** Ref: 94.148
- HIP 116017** Ref: 94.257
- HIP 116045** Ref: 94.248
- HIP 116103** Comments: Possibly RRc type.
- HIP 116106** Ref: 95.445
- HIP 116118** Ref: 95.684 94.189
- HIP 116119** Ref: 95.328 95.684 94.202 84.043
- HIP 116132** Ref: 95.025 95.168 95.173 95.240 95.519 95.597 94.265 94.380 94.407 94.410 94.420 89.059 87.008 78.010
- HIP 116146** Ref: 95.445
- HIP 116153** Comments: Possibly EA type.
- HIP 116167** Ref: 92.155 86.141 82.051 80.005
- HIP 116181** Ref: 95.684
- HIP 116210** Ref: 95.222 94.202 91.053 84.043 73.006
- HIP 116223** Comments: Possible period  $p = 0.9042d$ .
- HIP 116228** Comments: Possible period  $p = 303.0d$ .
- HIP 116231** Ref: 95.684 94.028 94.202 94.253 93.048 93.062
- HIP 116233** Ref: 94.174 94.202
- HIP 116247** Ref: 95.684
- HIP 116250** Ref: 95.445
- HIP 116259** Ref: 95.386
- HIP 116264** Ref: 94.204 94.542
- HIP 116285** Ref: 94.280
- HIP 116287** Ref: 95.322 95.627 94.012 94.168 94.197 94.404 89.057 89.092 86.134 85.099 85.150 85.179 30.013 22.006 7.001
- HIP 116310** Ref: 95.357 94.206
- HIP 116323** Ref: 95.684 83.020
- HIP 116339** Ref: 80.050 22.006
- HIP 116351** Ref: 94.188
- HIP 116354** Ref: 96.008 95.060 95.150 95.684 93.026
- HIP 116365** Ref: 95.558
- HIP 116389** Ref: 95.684 93.211 91.102 84.043 84.135 71.003
- HIP 116399** Ref: 95.445
- HIP 116421** Ref: 95.432 93.050
- HIP 116429** Ref: 95.445
- HIP 116465** Ref: 94.542
- HIP 116495** Ref: 95.193 95.445 95.684
- HIP 116519** Ref: 95.445
- HIP 116554** Ref: 95.445
- HIP 116556** Ref: 95.050 93.146 88.108 81.076 80.068 71.018 64.009 62.001 61.005 60.002 40.003 22.006 7.001
- HIP 116557** Ref: 94.280
- HIP 116582** Ref: 94.206
- HIP 116584** Ref: 95.062 95.249 95.268 95.290 95.300 95.694 95.698 94.040 94.125 94.145 94.265 94.295 94.419 93.092 93.118 93.155 92.111 92.162 91.181 89.060 85.134 85.193 85.221 84.006 84.140 84.170 83.085 82.018 80.072
- HIP 116592** Ref: 95.684
- HIP 116600** Ref: 93.030
- HIP 116602** Ref: 95.684 93.211 91.102
- HIP 116611** Ref: 95.684 91.196 88.116 85.229  
Comments: Period from Ref 91.196 confirmed.
- HIP 116613** Ref: 94.248
- HIP 116631** Ref: 94.209 94.403
- HIP 116648** Ref: 86.029 84.092 80.048 65.005 64.013
- HIP 116664** Ref: 95.297 95.378 94.236 82.054 77.031 66.008
- HIP 116681** Ref: 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 116684** Ref: 71.018 64.009 62.001
- HIP 116687** Ref: 95.523 95.690
- HIP 116705** Ref: 95.230 95.332 94.379 22.006
- HIP 116709** Ref: 93.071
- HIP 116714** Ref: 95.684
- HIP 116727** Ref: 95.331 95.390
- HIP 116740** Ref: 95.430 94.047 94.145 93.118 85.193
- HIP 116745** Ref: 95.445 94.410
- HIP 116748** Ref: 94.265
- HIP 116758** Ref: 95.684
- HIP 116763** Ref: 95.445
- HIP 116768** Ref: 95.684
- HIP 116771** Ref: 95.209 95.383 95.399 95.432 95.644 95.698 94.407 93.050
- HIP 116781** Ref: 95.684
- HIP 116805** Ref: 95.300 95.694 94.209 94.224
- HIP 116825** Ref: 95.433 95.445 95.697
- HIP 116851** Ref: 94.542
- HIP 116876** Ref: 95.684
- HIP 116877** Comments: Optical pair with 19 arcsec separation in 1983. Microvariability partly spurious.
- HIP 116883** Ref: 90.042
- HIP 116887** Comments: Possibly EA type.
- HIP 116918** Ref: 95.684
- HIP 116928** Ref: 95.684
- HIP 116942** Ref: 82.041
- HIP 116957** Ref: 85.090
- HIP 116958** Ref: 95.378 95.697 94.236 94.409 93.128 84.058 78.048 69.011 66.008 59.001
- HIP 116971** Ref: 95.684 94.209
- HIP 117020** Ref: 94.542  
Comments: Possible period  $p = 9.146d$ .
- HIP 117029** Ref: 94.206
- HIP 117041** Ref: 95.445 95.697 94.188
- HIP 117054** Ref: 95.034 95.201 95.319 95.326 95.387 95.481 95.548 95.588 95.692 95.780 94.083 94.204 94.273 94.372 94.404 90.048 89.092 88.020 88.026 87.080 86.016 86.063 86.069 83.103 82.043 82.079 82.093 81.016 77.027 70.009 30.013 22.006 7.001  
Comments: Ephemeris based on AAVSO data.
- HIP 117060** Ref: 95.445
- HIP 117073** Ref: 95.694
- HIP 117075** Ref: 95.445
- HIP 117078** Ref: 95.148 95.387 94.235 93.150 85.126
- HIP 117105** Ref: 95.445
- HIP 117130** Ref: 94.186
- HIP 117143** Ref: 95.412 95.414 93.133
- HIP 117154** Ref: 94.203 90.004 71.018 64.009 62.001 60.002  
Comments: Also known as V405 Cas (Hipparcos Input Catalogue).
- HIP 117164** Ref: 94.189
- HIP 117168** Ref: 95.697 95.704 94.280 94.423
- HIP 117217** Ref: 87.121
- HIP 117218** Ref: 95.684
- HIP 117219** Ref: 93.211 91.102
- HIP 117221** Ref: 95.300 95.388 95.419 95.694 93.043 93.144
- HIP 117239** Comments: Possible period  $p = 384d$ .
- HIP 117244** Comments: Possible period  $p = 26.41d$ .
- HIP 117245** Ref: 95.084 95.181 95.361 95.509 95.514 95.567 95.581 95.613 95.758 94.119 94.418 93.226 92.008 92.162 91.102 86.061  
Comments: No confirmation of period from Ref 93.226.
- HIP 117246** Ref: 95.373
- HIP 117254** Ref: 95.140 95.347 95.418 95.445 94.191 94.217 94.286 93.161 91.048 90.024 88.107 83.023 78.014 78.034 77.031 76.008 75.010 73.012 71.017 71.019 66.011 66.015 55.002 53.004  
Comments: Confirmation of period from Ref 94.191.
- HIP 117301** Ref: 93.248 91.131 89.072 89.107 88.099
- HIP 117320** Ref: 95.445
- HIP 117324** Ref: 95.445
- HIP 117340** Ref: 94.209

- HIP 117369** Ref: 95.697 94.280  
**HIP 117371** Ref: 95.684  
**HIP 117375** Ref: 93.015 93.211 91.102  
**HIP 117406** Ref: 95.704 94.423  
**HIP 117410** Ref: 95.445 90.083  
**HIP 117413** Comments: Possible period  $p = 89.13d$ .  
**HIP 117415** Ref: 94.406  
**HIP 117430** Ref: 95.684 93.126 91.053 84.043  
**HIP 117439** Ref: 95.140 95.347 94.191 93.161 93.259  
 90.024 86.001 86.023 86.041 83.023 77.031 76.028  
 66.011 66.015 64.012  
 Comments: Period from Ref 94.191 confirmed.  
**HIP 117445** Ref: 95.062 95.445 91.102  
**HIP 117447** Ref: 95.388 95.684 76.039  
**HIP 117450** Ref: 95.684 76.039  
**HIP 117452** Ref: 95.684  
**HIP 117472** Ref: 93.015  
**HIP 117473** Ref: 94.410  
**HIP 117491** Ref: 95.684  
**HIP 117500** Ref: 95.684  
**HIP 117503** Ref: 95.419 95.698 94.289 93.015 85.191  
 85.193 84.140 84.170  
**HIP 117510** Ref: 95.684  
**HIP 117515** Ref: 95.347 94.191 89.110  
 Comments: Possible period  $p = 0.06242d$ .  
**HIP 117520** Comments: Possible period  $p = 60.1d$ .  
**HIP 117541** Ref: 95.445  
**HIP 117551** Ref: 95.684  
**HIP 117576** Ref: 92.088 22.006  
 Comments: About 0.7 mag brighter than expected.  
**HIP 117591** Ref: 95.230 22.006  
**HIP 117607** Ref: 94.406 93.211 91.102  
**HIP 117628** Ref: 94.542  
**HIP 117629** Ref: 95.327 95.684 94.202 94.213 92.030  
 91.053 91.134 84.043 80.015  
 Comments: Period from Ref 84.043 confirmed.  
**HIP 117681** Ref: 95.386  
**HIP 117683** Ref: 91.102  
**HIP 117690** Ref: 81.076 81.103 71.018 64.009 62.001  
 61.005 60.002 22.006 7.001  
**HIP 117702** Ref: 95.445  
**HIP 117703** Ref: 30.013 22.006 7.001  
**HIP 117707** Ref: 95.388  
**HIP 117710** Ref: 94.542  
 Comments: Possibly EA type.  
**HIP 117712** Ref: 94.257 94.265  
**HIP 117718** Ref: 94.542  
 Comments: Possible period  $p = 40.3d$ .  
**HIP 117721** Ref: 94.280  
**HIP 117724** Ref: 88.051 81.053  
**HIP 117728** Ref: 95.117 94.189  
**HIP 117730** Ref: 95.347 95.684 94.191 90.024 74.029  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 117736** Ref: 95.445  
**HIP 117756** Ref: 93.211 91.102  
**HIP 117763** Ref: 95.387 22.006  
**HIP 117774** Ref: 95.684  
**HIP 117797** Ref: 95.684  
**HIP 117830** Ref: 76.039  
**HIP 117844** Ref: 95.389 95.392 94.406  
 Comments: Possible confirmation of period from Ref  
 95.389.  
**HIP 117860** Ref: 95.684  
**HIP 117863** Ref: 95.066 95.181 95.478 95.690 94.021  
 94.041 93.251 92.162 91.026 91.132 91.142 90.094  
 90.119 89.104 88.056 88.102 88.103 87.130 84.182  
 30.013 22.006 7.001  
**HIP 117870** Ref: 95.141  
**HIP 117880** Ref: 95.445  
**HIP 117887** Ref: 95.445 94.204 92.162  
 Comments: Possible period  $p = 60.1d$ .
- HIP 117913** Ref: 95.141  
**HIP 117915** Ref: 95.067 95.093 95.141 95.164 95.285  
 95.475 95.596 95.628 95.689 95.694 95.699 95.702  
 94.040 94.099 94.145 94.248 94.265 94.514 93.023  
 93.027 93.118 93.189 92.019 92.062 92.064 92.201  
 91.005 91.189 89.004 89.016 89.081 89.114 89.137  
 88.003 88.008 88.036 87.010 87.014 87.056 87.064  
 87.073 87.093 87.099 87.117 87.123 87.124 86.013  
 86.072 86.075 86.086 86.100 85.094 85.193 84.047  
 84.104 84.140 81.056 81.097 80.072  
 Comments: Elements taken from Ref 95.694.  
 Variations in light curve due to evolution of star spots.  
**HIP 117927** Ref: 95.684  
**HIP 117931** Ref: 91.096 87.011 87.023 81.068 80.044  
**HIP 117932** Ref: 94.278  
**HIP 117956** Ref: 95.419  
**HIP 117957** Ref: 95.388 95.759 87.019 85.074  
 Comments: Marginal confirmation of period from  
 Ref 85.074.  
**HIP 117986** Comments: Possible period  $p = 10.80d$ .  
**HIP 117998** Ref: 94.221  
**HIP 118027** Ref: 95.684  
**HIP 118071** Ref: 94.209  
**HIP 118077** Ref: 77.033  
**HIP 118079** Comments: Possibly EA type.  
**HIP 118092** Ref: 95.684  
**HIP 118096** Comments: Period may be half, type RRc.  
**HIP 118115** Ref: 95.445  
**HIP 118116** Ref: 76.039  
**HIP 118121** Ref: 95.684  
**HIP 118122** Ref: 94.177 91.190 85.084 84.087 81.076  
 80.068 71.018 64.009 62.001 60.002  
**HIP 118131** Ref: 95.398 94.204  
**HIP 118149** Ref: 95.359 94.323 91.204 89.097 84.039  
 82.045 65.005 64.011 64.013 58.002 30.013 24.002  
 22.006 7.001  
**HIP 118174** Ref: 95.377 95.447 94.177 94.203 94.434  
 93.146 88.108 86.002 85.084 84.087 71.018 64.009  
**HIP 118188** Ref: 95.065 95.319 95.387 95.464 95.518  
 95.581 95.588 95.680 95.692 94.204 94.290 93.192  
 89.031 88.020 86.141 85.222 22.006 7.001  
 Comments: Ephemeris based on AAVSO data.  
**HIP 118209** Ref: 85.090  
**HIP 118214** Ref: 95.267 92.181 91.094 86.129 85.106  
 84.009 84.093  
**HIP 118222** Comments: Possible period  $p = 15.66d$ . Other  
 notes: D.  
**HIP 118243** Ref: 94.367  
**HIP 118249** Ref: 94.196 30.013 22.006 7.001  
**HIP 118252** Comments: The F8 star HD 240465 was  
 observed instead of V532 Cas. The proximity of the  
 bright carbon star at 24 arcsec and the reduction with  
 an incorrect colour deduced from the C type induced  
 spurious spikes and a secular drift in the light curve.  
 Other notes: G.  
**HIP 118268** Ref: 85.039  
**HIP 118278** Ref: 95.445  
**HIP 118281** Ref: 94.257  
**HIP 118286** Ref: 95.147 95.347 94.191 91.107  
 Comments: Data inadequate for confirmation of  
 period from Ref 94.191.  
**HIP 118287** Ref: 94.206  
**HIP 118293** Ref: 95.147 95.732 95.739 94.515 91.107  
**HIP 118307** Comments: Possible period  $p = 18.71d$ .  
**HIP 118322** Ref: 94.278 94.311  
**HIP 120005** Ref: 95.475 94.407 94.410  
**HIP 120155** Ref: 95.111  
**HIP 120212** Ref: 95.084 95.263 95.361 95.509 94.196  
 94.418 88.020 70.009 30.013 22.006 7.001  
**HIP 120229** Ref: 22.006 7.001