

**Solar System Observations:**

**Hipparcos Observations: Photometric Catalogue**

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
1	7920.575 07	7.8568	0.0058	8.3772	0.0157	2.632	1.864	16.05
1	7920.649 66	7.8434	0.0090	8.3516	0.0094	2.632	1.865	16.07
1	7920.663 96	7.8566	0.0088	8.3225	0.0298	2.632	1.865	16.07
1	7920.738 54	7.8560	0.0071	8.3798	0.0201	2.632	1.866	16.09
1	7920.752 86	7.8599	0.0075	8.3613	0.0233	2.632	1.866	16.10
1	7920.827 42	7.8700	0.0061	8.3824	0.0186	2.632	1.867	16.12
1	7920.841 73	7.8861	0.0077	8.4197	0.0177	2.632	1.867	16.12
1	7928.738 17	8.0284	0.0045	8.5377	0.0324	2.626	1.945	18.16
1	7928.752 52	8.0277	0.0039	8.5178	0.0257	2.626	1.945	18.16
1	7928.841 39	8.0651	0.0105	8.5416	0.0301	2.626	1.946	18.18
1	7963.668 30	8.5609	0.0056	8.8696	0.0199	2.606	2.359	22.40
1	7963.742 87	8.5678	0.0053	8.8976	0.0275	2.606	2.360	22.41
1	7963.757 16	8.5900	0.0066	8.8808	0.0152	2.606	2.360	22.41
1	7994.306 59	8.8532	0.0039	9.0979	0.0150	2.590	2.737	21.47
1	7994.320 89	8.8596	0.0062	9.1048	0.0334	2.590	2.737	21.47
1	8013.147 21	8.9415	0.0075	9.1765	0.0211	2.582	2.949	19.58
1	8013.161 52	8.9388	0.0096	9.2558	0.0222	2.582	2.949	19.58
1	8275.921 89	8.5908	0.0088	8.8472	0.0288	2.585	2.385	22.38
1	8298.832 58	8.2537	0.0063	8.6426	0.0182	2.595	2.103	21.08
1	8298.846 92	8.2663	0.0071	8.6595	0.0215	2.595	2.103	21.08
1	8298.921 51	8.2491	0.0077	8.6327	0.0244	2.595	2.102	21.07
1	8298.935 83	8.2910	0.0043	8.6614	0.0162	2.595	2.102	21.07
1	8426.659 69	8.3137	0.0041	8.7088	0.0208	2.677	2.107	20.36
1	8476.760 63	9.0257	0.0200	9.2511	0.0077	2.715	2.773	21.27
1	8476.774 98	8.9733	0.0142	9.1611	0.0230	2.715	2.773	21.27
1	8516.488 58	9.1971	0.0132	9.3761	0.0174	2.746	3.264	16.59
1	8516.563 12	9.1449	0.0074	9.3298	0.0450	2.746	3.265	16.58
1	8516.577 47	9.1617	0.0073	9.3984	0.0265	2.746	3.265	16.58
1	8522.518 53	9.2013	0.0107	9.3724	0.0242	2.751	3.329	15.64
1	8522.532 87	9.2213	0.0144	9.3865	0.0323	2.751	3.329	15.64
1	8522.621 73	9.1622	0.0059	9.3389	0.0203	2.751	3.330	15.62
1	8522.696 31	9.1962	0.0062	9.3850	0.0162	2.751	3.331	15.61
1	8522.710 65	9.1979	0.0047	9.3483	0.0221	2.751	3.331	15.60
1	8522.785 21	9.1877	0.0062	9.3628	0.0265	2.751	3.331	15.59
1	8522.799 51	9.2214	0.0064	9.4052	0.0143	2.751	3.332	15.59
1	8522.962 98	9.2087	0.0078	9.3728	0.0129	2.751	3.333	15.57
1	8522.977 29	9.2170	0.0067	9.3659	0.0203	2.751	3.334	15.56
1	8523.140 74	9.2039	0.0091	9.3367	0.0221	2.752	3.335	15.53
1	8523.155 08	9.2121	0.0118	9.3677	0.0279	2.752	3.335	15.53
1	8523.229 64	9.2030	0.0083	9.3383	0.0431	2.752	3.336	15.52
1	8523.243 95	9.2165	0.0115	9.3921	0.0375	2.752	3.336	15.52
1	8709.264 51	9.2666	0.0117	9.4677	0.0371	2.888	3.108	18.65
1	8709.278 85	9.2673	0.0064	9.4737	0.0118	2.888	3.107	18.65
1	8709.353 43	9.2921	0.0126	9.5120	0.0127	2.888	3.107	18.66
1	8709.367 76	9.3055	0.0091	9.4348	0.0338	2.888	3.106	18.66
1	8732.368 66	9.1302	0.0124	9.3192	0.0284	2.902	2.814	20.10
1	8732.382 97	9.1341	0.0110	9.4017	0.0081	2.902	2.814	20.10
1	8933.227 70	9.3244	0.0237	9.5537	0.0683	2.976	3.005	19.15
1	8933.242 03	9.2922	0.0194	9.4158	0.0474	2.976	3.005	19.15
1	8970.651 88	9.4699	0.0222	9.6386	0.0163	2.979	3.477	15.25
1	8970.666 21	9.4513	0.0052	9.6050	0.0170	2.979	3.477	15.25
1	8970.740 80	9.4321	0.0177	9.5924	0.0278	2.979	3.478	15.24
1	8970.755 09	9.4293	0.0119	9.5278	0.0160	2.979	3.478	15.24
1	8970.916 52	9.4528	0.0094	9.6000	0.0286	2.979	3.480	15.21
1	8970.930 84	9.4452	0.0078	9.6153	0.0279	2.979	3.480	15.21
1	8977.242 72	9.4478	0.0096	9.5175	0.0293	2.979	3.548	14.28
1	8977.317 28	9.4587	0.0127	9.6038	0.0315	2.979	3.548	14.27
1	8977.331 64	9.4621	0.0187	9.6740	0.0298	2.979	3.548	14.27
1	8977.406 18	9.4605	0.0199	9.6407	0.0578	2.979	3.549	14.26
1	8977.420 50	9.4446	0.0164	9.5804	0.0373	2.979	3.549	14.26
1	8977.666 76	9.4345	0.0153	9.5209	0.0133	2.979	3.552	14.22
1	8977.681 06	9.4758	0.0136	9.6616	0.0317	2.979	3.552	14.21
1	8977.755 64	9.4886	0.0106	9.5365	0.0492	2.979	3.553	14.20
1	8977.769 96	9.4697	0.0083	9.6298	0.0537	2.979	3.553	14.20
1	8977.858 85	9.4353	0.0129	9.6342	0.0544	2.979	3.554	14.19
2	8154.103 49	9.1385	0.0184	9.2389	0.0144	2.139	2.651	20.93
2	8154.117 83	9.1279	0.0119	9.2158	0.0479	2.139	2.651	20.93
2	8154.192 38	9.2265	0.0082	9.3196	0.0198	2.139	2.650	20.94
2	8154.206 72	9.2440	0.0222	9.3544	0.0205	2.139	2.650	20.95
2	8154.281 27	9.1109	0.0104	9.1508	0.0236	2.139	2.650	20.95
2	8154.295 62	9.0820	0.0043	9.1495	0.0161	2.139	2.649	20.96
2	8154.547 94	9.1968	0.0170	9.2199	0.0251	2.139	2.647	20.98
2	8154.562 28	9.1090	0.0067	9.1991	0.0344	2.139	2.647	20.99
2	8162.547 97	9.0876	0.0161	9.2227	0.0411	2.133	2.590	21.90
2	8162.562 30	9.0526	0.0139	9.1864	0.0449	2.133	2.590	21.90
2	8162.636 86	9.2029	0.0139	9.3101	0.0338	2.133	2.589	21.91
2	8162.651 20	9.1906	0.0119	9.3402	0.0327	2.133	2.589	21.91
2	8162.725 76	9.0700	0.0130	9.1438	0.0319	2.133	2.589	21.92
2	8162.740 08	9.0561	0.0204	9.1568	0.0496	2.133	2.588	21.92
2	8223.851 78	8.8966	0.0080	9.0573	0.0237	2.123	2.037	27.36
2	8223.866 11	8.8587	0.0030	9.0160	0.0295	2.123	2.037	27.36
2	8223.940 67	8.7359	0.0078	8.9369	0.0096	2.123	2.036	27.37
2	8223.955 00	8.7185	0.0054	8.8886	0.0057	2.123	2.036	27.37
2	8251.838 80	8.5119	0.0118	8.6411	0.0155	2.137	1.733	26.95
2	8251.853 09	8.5382	0.0070	8.6729	0.0171	2.137	1.733	26.95
2	8389.064 45	8.6788	0.0073	8.8395	0.0233	2.350	1.860	24.33
2	8389.078 81	8.6725	0.0080	8.8272	0.0244	2.350	1.861	24.33
2	8420.532 66	9.2400	0.0095	9.3828	0.0311	2.421	2.325	24.56
2	8420.607 22	9.1871	0.0117	9.1728	0.0250	2.422	2.326	24.55
2	8420.621 55	9.2227	0.0114	9.3198	0.0299	2.422	2.327	24.55
2	8650.081 11	10.1358	0.0089	10.1204	0.0176	2.971	3.413	15.90
2	8650.095 46	10.1688	0.0100	10.2211	0.0198	2.971	3.413	15.90
2	8667.410 66	10.0753	0.0306	10.1407	0.0666	3.007	3.274	17.43
2	8667.424 98	10.1244	0.0256	10.2138	0.0283	3.007	3.274	17.43
2	8698.417 54	10.0788	0.0143	10.0955	0.0273	3.070	2.993	18.80
2	8698.431 87	10.0609	0.0156	10.0997	0.0298	3.070	2.993	18.80
2	8728.978 62	9.9238	0.0140	9.9696	0.0385	3.127	2.722	18.05
2	8729.067 51	9.9255	0.0086	10.0008	0.0384	3.127	2.721	18.04
2	8729.081 85	9.9310	0.0161	9.9511	0.0216	3.127	2.721	18.04

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
2	8747.018 06	9.7992	0.0135	9.8688	0.0210	3.158	2.592	16.68
2	8747.032 40	9.7833	0.0287	9.8926	0.0767	3.158	2.592	16.68
2	8788.676 13	9.6099	0.0063	9.6727	0.0373	3.224	2.463	13.59
2	8788.690 45	9.6133	0.0076	9.7318	0.0249	3.224	2.463	13.59
2	8788.764 99	9.5498	0.0046	9.5801	0.0215	3.225	2.463	13.59
2	8788.779 33	9.5520	0.0093	9.6517	0.0231	3.225	2.463	13.59
2	8788.853 89	9.6364	0.0170	9.7378	0.0491	3.225	2.463	13.59
2	8788.868 22	9.6459	0.0245	9.7979	0.0558	3.225	2.463	13.59
2	8788.942 79	9.6044	0.0227	9.6399	0.0508	3.225	2.463	13.59
2	8788.957 10	9.6011	0.0146	9.6613	0.0404	3.225	2.463	13.59
2	8789.031 67	9.4650	0.0196	9.6004	0.0713	3.225	2.463	13.59
2	8789.045 98	9.5642	0.0162	9.6821	0.0278	3.225	2.463	13.59
2	8789.120 56	9.5035	0.0373	9.5311	0.0609	3.225	2.463	13.58
2	8789.134 88	9.5878	0.0099	9.6737	0.0205	3.225	2.463	13.58
2	8789.209 42	9.6055	0.0458	9.7078	0.0626	3.225	2.463	13.58
2	8789.223 79	9.5682	0.0074	9.6289	0.0120	3.225	2.463	13.58
2	8789.298 35	9.6297	0.0389	9.5977	0.0495	3.225	2.463	13.58
2	8789.387 21	9.5840	0.0102					

N	Date		Magnitude		Additional				
	Epoch JD[TTT] 2	HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9	
4	8106.933 79	8.2328	0.0059	8.2949	0.0116	2.501	2.491	23.46	
4	8136.152 54	7.8938	0.0039	8.0658	0.0189	2.521	2.142	23.23	
4	8136.166 87	7.8914	0.0117	8.0299	0.0291	2.521	2.142	23.23	
4	8136.241 43	7.9677	0.0069	8.1081	0.0093	2.521	2.141	23.23	
4	8257.114 18	7.5779	0.0058	7.6948	0.0195	2.571	1.870	18.09	
4	8257.128 50	7.6280	0.0080	7.7701	0.0268	2.571	1.870	18.10	
4	8257.203 07	7.5232	0.0053	7.6589	0.0086	2.572	1.871	18.11	
4	8257.217 39	7.4953	0.0100	7.6461	0.0101	2.572	1.871	18.12	
4	8303.320 18	8.2292	0.0146	8.2609	0.0114	2.576	2.464	22.45	
4	8303.334 50	8.2245	0.0038	8.2982	0.0141	2.576	2.464	22.45	
4	8303.409 08	8.3290	0.0041	8.3840	0.0324	2.576	2.465	22.44	
4	8303.423 42	8.3375	0.0064	8.4265	0.0264	2.576	2.466	22.44	
4	8337.436 40	8.5180	0.0047	8.5402	0.0163	2.573	2.898	19.82	
4	8337.450 70	8.5459	0.0128	8.5842	0.0300	2.573	2.898	19.82	
4	8337.525 29	8.6091	0.0132	8.6469	0.0468	2.573	2.899	19.81	
4	8337.539 59	8.5822	0.0095	8.6671	0.0179	2.573	2.899	19.81	
4	8337.614 19	8.4861	0.0161	8.5952	0.0164	2.573	2.900	19.80	
4	8350.960 47	8.5725	0.0191	8.6013	0.0367	2.571	3.048	18.01	
4	8351.035 02	8.5957	0.0149	8.6349	0.0641	2.571	3.049	18.01	
4	8351.049 33	8.6431	0.0065	8.7077	0.0283	2.571	3.049	18.00	
4	8351.212 80	8.5348	0.0174	8.5562	0.0105	2.571	3.051	17.98	
4	8351.227 12	8.5263	0.0148	8.6050	0.0314	2.571	3.051	17.97	
4	8351.301 68	8.6893	0.0070	8.6927	0.0270	2.571	3.052	17.96	
4	8351.316 00	8.6596	0.0069	8.6942	0.0239	2.571	3.052	17.96	
4	8351.316 00	8.3298	0.0084	8.3707	0.0266	2.463	2.935	18.88	
4	8351.316 00	8.3298	0.0084	8.3707	0.0266	2.463	2.935	18.88	
4	8545.615 70	8.3908	0.0059	8.4406	0.0246	2.463	2.934	18.88	
4	8545.690 22	8.4260	0.0042	8.4805	0.0162	2.463	2.933	18.89	
4	8545.704 58	8.3320	0.0091	8.4355	0.0190	2.463	2.933	18.90	
4	8559.555 21	8.2382	0.0042	8.3532	0.0202	2.451	2.770	20.87	
4	8559.569 52	8.2679	0.0064	8.3380	0.0114	2.451	2.769	20.87	
4	8559.732 99	8.3018	0.0036	8.3914	0.0090	2.451	2.768	20.89	
4	8559.747 30	8.2744	0.0032	8.3490	0.0094	2.451	2.767	20.90	
4	8593.137 79	7.9541	0.0084	8.0670	0.0230	2.420	2.327	23.95	
4	8593.152 08	7.9618	0.0110	8.0273	0.0218	2.420	2.327	23.95	
4	8593.226 65	7.9194	0.0043	8.0067	0.0090	2.420	2.326	23.95	
4	8593.240 96	7.9371	0.0099	8.0309	0.0184	2.420	2.326	23.95	
4	8621.835 05	7.5759	0.0051	7.7242	0.0043	2.392	1.934	23.41	
4	8621.849 39	7.5576	0.0091	7.7255	0.0229	2.392	1.934	23.41	
4	8639.267 39	7.1532	0.0061	7.3300	0.0159	2.374	1.714	20.87	
4	8639.341 94	7.1974	0.0068	7.3628	0.0140	2.374	1.713	20.86	
4	8639.356 28	7.2248	0.0051	7.3951	0.0145	2.374	1.713	20.86	
4	8639.430 82	7.2097	0.0047	7.3793	0.0080	2.374	1.712	20.84	
4	8639.445 17	7.1731	0.0024	7.3727	0.0084	2.374	1.712	20.83	
4	8765.642 58	7.3651	0.0041	7.5393	0.0204	2.249	1.812	26.03	
4	8765.656 91	7.3281	0.0052	7.5054	0.0064	2.249	1.813	26.04	
4	8765.820 35	7.4071	0.0089	7.5734	0.0201	2.248	1.814	26.06	
4	8765.834 69	7.4373	0.0041	7.5963	0.0105	2.248	1.814	26.06	
4	8817.142 40	7.8634	0.0035	7.9583	0.0208	2.205	2.352	25.45	
4	8817.156 70	7.8120	0.0055	7.9372	0.0072	2.205	2.352	25.45	
5	8094.655 48	12.2146	0.0257	12.3119	0.0333	2.426	3.008	17.74	
5	8094.669 82	12.1117	0.0330	12.1100	0.0213	2.426	3.008	17.74	
5	8094.922 14	12.3626	0.0450	12.5302	0.0749	2.426	3.005	17.79	
5	8094.936 48	12.3018	0.0609	12.1761	0.0918	2.426	3.005	17.79	
5	8095.099 92	12.1431	0.0505	12.0870	0.0833	2.425	3.003	17.82	
5	8095.114 26	11.9301	0.0384	12.0995	0.0935	2.425	3.003	17.82	
5	8095.366 59	12.2324	0.0675	12.2515	0.0944	2.425	3.000	17.86	
5	8095.544 36	12.1528	0.0671	12.2685	0.1372	2.424	2.998	17.89	
5	8095.558 70	12.0546	0.0292	12.3645	0.0841	2.424	2.998	17.89	
5	8095.811 04	12.0800	0.0362	12.0408	0.0528	2.424	2.995	17.94	
5	8095.988 83	12.2619	0.0488	12.3468	0.1068	2.424	2.993	17.97	
5	8096.003 15	12.2433	0.0368	12.2046	0.0865	2.423	2.993	17.97	
5	8096.255 49	12.1258	0.0238	12.1639	0.0897	2.423	2.990	18.02	
5	8096.269 82	12.3477	0.0130	12.2410	0.0437	2.423	2.990	18.02	
5	8096.699 95	12.3075	0.0702	12.4395	0.0403	2.422	2.985	18.09	
5	8096.877 73	11.9142	0.0404	11.9968	0.0756	2.422	2.983	18.12	
5	8096.892 04	11.9518	0.0358	12.1579	0.0782	2.422	2.983	18.12	
5	8097.144 39	12.0655	0.0528	12.0951	0.0811	2.421	2.980	18.16	
5	8097.158 71	11.7523	0.0278	12.2166	0.1421	2.421	2.980	18.17	
5	8097.322 17	12.2388	0.0272	12.3599	0.0641	2.421	2.978	18.19	
5	8097.336 50	12.0719	0.0477	12.1374	0.0891	2.421	2.978	18.19	
5	8098.033 31	12.3068	0.0317	12.2665	0.0871	2.419	2.970	18.31	
5	8098.492 08	12.0919	0.0269	12.3787	0.0874	2.418	2.965	18.39	
5	8098.655 55	12.0135	0.0319	12.0960	0.0956	2.418	2.964	18.41	
5	8098.669 87	12.0363	0.0296	12.1127	0.0534	2.418	2.963	18.42	
5	8165.930 61	11.3962	0.0158	11.5234	0.0724	2.284	2.104	25.99	
5	8312.646 08	10.2620	0.0051	10.3189	0.0282	2.092	1.369	22.99	
5	8312.660 40	10.3391	0.0112	10.3471	0.0354	2.092	1.369	23.00	
5	8312.734 97	10.4020	0.0149	10.3922	0.0367	2.092	1.370	23.01	
5	8312.749 29	10.3778	0.0119	10.3120	0.0314	2.092	1.370	23.02	
5	8312.823 86	10.2293	0.0148	10.2023	0.0659	2.092	1.370	23.04	
5	8312.838 18	10.2483	0.0172	10.2434	0.0474	2.092	1.371	23.04	
5	8329.887 60	10.6219	0.0211	10.7382	0.0460	2.084	1.532	26.69	
5	8329.901 90	10.6712	0.0223	10.6873	0.0391	2.084	1.532	26.69	
5	8329.976 48	10.6701	0.0194	10.7035	0.0532	2.084	1.533	26.70	
5	8329.990 80	10.5369	0.0387	10.5345	0.0858	2.084	1.533	26.70	
5	8360.984 44	11.0926	0.0251	11.0541	0.0474	2.080	1.864	28.73	
5	8360.998 75	11.1936	0.0211	11.2031	0.0426	2.080	1.865	28.73	
5	8361.073 32	11.2219	0.0210	11.1112	0.0151	2.080	1.865	28.73	
5	8361.087 65	11.2526	0.0427	11.1482	0.0639	2.080	1.866	28.73	
5	8393.783 25	11.2739	0.0355	11.4396	0.0404	2.090	2.221	26.86	
5	8393.857 82	11.2240	0.0454	11.3389	0.0870	2.090	2.222	26.85	
5	8393.872 15	11.2931	0.0103	11.3659	0.0746	2.090	2.222	26.85	
5	8393.946 71	11.5062	0.0413	11.4963	0.0559	2.090	2.223	26.84	
5	8393.961 04	11.5024	0.0122	11.5620	0.0625	2.090	2.223	26.84	
5	8412.698 68	11.4785	0.0357	11.4747	0.0503	2.102	2.417	24.66	
5	8412.713 00	11.3546	0.0493	11.4300	0.0134	2.102	2.417	24.66	
5	8412.890 77	11.7233	0.0223	11.7497	0.0828	2.102	2.419	24.63	
5	8653.922 87	12.3549	0.0767	12.4060	0.1297	2.506	2.847	19.94	
5	8701.890 55	11.9862	0.0336	12.2221	0.1013	2.605	2.324	22.36	

N	Date		Magnitude		Additional				
	Epoch JD[TTT] 2	HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9	
5	8701.904 87	11.9182	0.0392	12.0519	0.1370	2.605	2.333	22.36	
5	8701.979 41	12.0182	0.0169	12.1636	0.1103	2.605	2.332	22.36	
5	8701.993 72	11.9010	0.0535	11.9316	0.0625	2.605	2.332	22.35	
5	8738.671 87	11.4784	0.0502	11.7349	0.0807	2.678	1.949	17.35	
5	8738.686 19	11.4643	0.0415	11.4084	0.0744	2.678	1.949	17.34	
5	8738.760 74	11.4140	0.0542	11.5010	0.1095	2.678	1.948	17.33	
5	8738.775 10	11.2475	0.0281	11.3561	0.0732	2.678	1.948	17.32	
5	8739.027 45	11.6113	0.0227	11.6103	0.0753	2.678	1.946	17.26	
5	8739.041 75	11.5494	0.0387	11.5754	0.0441	2.678	1.946	17.26	
5	8739.116 31	11.4615	0.0293	11.5264	0.0364	2.679	1.945	17.24	
5	8739.130 63	11.3822	0.0222	11.4005	0.0861	2.679	1.945	17.24	
5	8739.205 20	11.3162	0.0202	11.3506	0.0532	2.679	1.944	17.22	
5	8739.219 52	11.3250	0.0220	11.4633	0.0710	2.679	1.944	17.21	
5	8743.916 14	11.5004	0.0308	11.4497	0.0810	2.688	1.905	15.98	
5	8743.930 49	11.4391	0.0159	11.4922	0.0624	2.688	1.905	15.97	
5	8744								

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> ac mag 3	σ <sub>H<sub>p</sub>ac</sub> mag 4	H <sub>p</sub> ac mag 5	σ <sub>H<sub>p</sub>ac</sub> mag 6	d AU 7	Δ AU 8	α deg 9
6	8559.433 23	9.0841	0.0168	9.1146	0.0230	1.956	1.347	28.13
6	8559.507 81	9.0065	0.0015	9.0801	0.0370	1.956	1.348	28.14
6	8559.522 14	8.9864	0.0084	9.0742	0.0320	1.956	1.348	28.14
6	8559.596 70	9.1447	0.0160	9.2165	0.0122	1.956	1.349	28.15
6	8590.515 31	9.6590	0.0093	9.6431	0.0372	1.940	1.650	30.65
6	8590.529 66	9.6459	0.0077	9.7220	0.0234	1.940	1.650	30.65
6	8590.604 17	9.5674	0.0103	9.6640	0.0235	1.940	1.651	30.65
6	8590.618 53	9.4828	0.0072	9.5370	0.0215	1.940	1.651	30.65
6	8620.989 14	9.9739	0.0182	9.9576	0.0281	1.940	1.959	29.28
6	8621.003 49	10.0563	0.0204	10.0360	0.0315	1.940	1.959	29.28
6	8640.095 72	10.1730	0.0197	10.1387	0.0044	1.947	2.147	27.29
6	8640.110 02	10.2206	0.0140	10.1709	0.0197	1.947	2.147	27.28
6	8640.184 60	10.0718	0.0027	10.0890	0.0401	1.947	2.148	27.28
6	8640.198 91	10.1471	0.0093	10.1665	0.0227	1.947	2.148	27.27
6	8640.273 47	10.0455	0.0153	10.2932	0.0460	1.947	2.149	27.26
6	8640.287 79	10.0453	0.0182	10.1691	0.0598	1.947	2.149	27.26
6	8640.362 37	10.0611	0.0159	10.0330	0.0270	1.947	2.150	27.25
6	8938.248 39	10.7904	0.0227	10.7599	0.0612	2.493	2.471	23.10
6	8938.262 71	10.8064	0.0307	10.8234	0.0286	2.493	2.471	23.10
6	8938.337 26	10.7609	0.0272	10.7902	0.0704	2.493	2.470	23.10
6	8938.351 58	10.8441	0.0211	10.7640	0.0423	2.493	2.470	23.10
6	8967.063 30	10.5439	0.0176	10.5301	0.0215	2.553	2.141	22.17
6	8967.077 61	10.4955	0.0036	10.5198	0.0320	2.553	2.141	22.17
7	7911.555 78	11.2807	0.0102	11.3130	0.0384	2.916	3.133	18.28
7	7959.257 89	10.8555	0.0293	10.9046	0.0399	2.932	2.475	18.85
7	7959.272 22	10.8803	0.0310	10.9886	0.0682	2.932	2.475	18.85
7	7959.346 78	10.8622	0.0386	10.9546	0.0106	2.932	2.474	18.84
7	7959.361 08	10.8903	0.0154	10.9505	0.0453	2.932	2.474	18.84
7	8083.515 42	10.6012	0.0293	10.6436	0.0709	2.890	2.295	18.42
7	8083.589 99	10.6423	0.0142	10.6621	0.0290	2.890	2.296	18.43
7	8083.604 32	10.6335	0.0255	10.6774	0.0348	2.890	2.296	18.43
7	8083.678 88	10.6572	0.0204	10.7017	0.0234	2.890	2.297	18.45
7	8083.693 21	10.6917	0.0235	10.6865	0.0320	2.890	2.297	18.45
7	8083.767 77	10.6279	0.0161	10.6022	0.0450	2.890	2.298	18.46
7	8106.428 12	10.8959	0.0255	10.1160	0.0414	2.869	2.578	20.59
7	8106.442 44	10.9335	0.0034	10.9370	0.0285	2.869	2.578	20.59
7	8133.707 69	11.3137	0.0268	11.3058	0.0461	2.839	2.923	20.12
7	8366.356 30	10.8567	0.0082	10.8262	0.0308	2.382	2.625	22.43
7	8366.445 17	10.9210	0.0232	10.9511	0.0764	2.382	2.624	22.44
7	8366.459 49	10.9498	0.0191	10.9260	0.0346	2.382	2.623	22.44
7	8388.053 53	10.6017	0.0092	10.6865	0.0103	2.326	2.322	25.04
7	8388.128 10	10.5621	0.0216	10.6043	0.0236	2.326	2.321	25.05
7	8388.142 43	10.5853	0.0117	10.5986	0.0333	2.326	2.321	25.05
7	8417.448 90	10.0582	0.0133	10.1196	0.0314	2.249	1.906	26.62
7	8417.463 24	10.1179	0.0090	10.1715	0.0214	2.249	1.905	26.62
7	8417.537 79	10.0006	0.0075	10.0224	0.0086	2.249	1.904	26.62
7	8417.626 67	10.0085	0.0188	10.0527	0.0340	2.249	1.903	26.62
7	8550.995 62	8.2635	0.0038	8.3384	0.0108	1.938	1.131	22.89
7	8551.070 19	8.2688	0.0047	8.3805	0.0088	1.938	1.131	22.92
7	8551.084 50	8.2586	0.0045	8.3786	0.0080	1.938	1.131	22.92
7	8551.159 06	8.2353	0.0028	8.3335	0.0079	1.938	1.132	22.94
7	8551.173 41	8.2621	0.0067	8.3676	0.0199	1.938	1.132	22.95
7	8560.402 73	8.4370	0.0113	8.4731	0.0236	1.922	1.194	25.93
7	8560.417 04	8.4631	0.0088	8.5372	0.0185	1.922	1.194	25.93
7	8560.491 60	8.4198	0.0101	8.4743	0.0339	1.922	1.195	25.95
7	8560.505 95	8.3966	0.0058	8.5089	0.0318	1.922	1.195	25.95
7	8560.669 38	8.4111	0.0080	8.4983	0.0173	1.922	1.196	26.00
7	8560.683 72	8.4736	0.0152	8.5275	0.0349	1.922	1.196	26.00
7	8622.341 31	9.2419	0.0067	9.2966	0.0054	1.852	1.737	31.67
7	8622.415 92	9.2008	0.0063	9.2213	0.0216	1.852	1.737	31.67
7	8644.289 69	9.4203	0.0177	9.4801	0.0307	1.844	1.941	30.04
7	8644.364 25	9.4698	0.0150	9.5190	0.0288	1.844	1.942	30.03
7	8683.632 00	9.7705	0.0093	9.8000	0.0145	1.853	2.290	24.90
7	8683.646 29	9.7974	0.0145	9.8222	0.0247	1.853	2.290	24.90
7	8683.720 87	9.8036	0.0116	9.8464	0.0235	1.853	2.291	24.89
7	8683.735 20	9.7748	0.0078	9.8285	0.0297	1.853	2.291	24.88
7	8683.809 76	9.7878	0.0232	9.8144	0.0504	1.853	2.292	24.87
7	8683.824 06	9.7915	0.0095	9.8114	0.0201	1.853	2.292	24.87
7	8683.987 55	9.8011	0.0169	9.8071	0.0319	1.854	2.293	24.84
7	8684.001 87	9.7913	0.0243	9.7985	0.0321	1.854	2.293	24.84
7	8684.076 43	9.7518	0.0199	9.8758	0.0529	1.854	2.294	24.83
7	8684.090 74	9.7610	0.0157	9.7445	0.0233	1.854	2.294	24.83
7	8691.542 77	9.8266	0.0104	9.8641	0.0257	1.859	2.357	23.64
7	8691.557 11	9.8225	0.0073	9.8596	0.0189	1.859	2.357	23.64
7	8691.631 69	9.8280	0.0139	9.8336	0.0119	1.859	2.357	23.63
7	8691.646 01	9.8189	0.0104	9.8871	0.0258	1.859	2.358	23.62
7	8691.720 57	9.8450	0.0178	9.8744	0.0343	1.859	2.358	23.61
7	8691.734 90	9.8287	0.0125	9.8529	0.0561	1.859	2.358	23.61
7	8691.912 67	9.8098	0.0130	9.7862	0.0117	1.859	2.360	23.58
7	8963.027 76	10.5522	0.0281	10.5698	0.0638	2.445	2.458	23.29
7	8963.130 98	10.5434	0.0200	10.5939	0.0480	2.445	2.457	23.29
7	9013.573 26	10.0335	0.0223	10.0319	0.0347	2.563	1.917	19.38
7	9013.587 57	9.9046	0.0137	9.9981	0.0325	2.563	1.917	19.37
7	9013.662 16	9.9341	0.0079	10.0040	0.0248	2.563	1.917	19.36
7	9013.676 46	10.0104	0.0014	9.9931	0.0917	2.563	1.916	19.35
7	9013.751 05	9.9438	0.0130	10.0015	0.0303	2.564	1.916	19.34
7	9013.765 36	9.9336	0.0212	10.0152	0.0603	2.564	1.916	19.34
7	9023.917 83	9.7731	0.0117	9.8019	0.0243	2.586	1.826	16.69
7	9024.205 64	9.7481	0.0068	9.7662	0.0165	2.587	1.824	16.61
7	9024.280 24	9.7365	0.0081	9.7725	0.0198	2.587	1.823	16.59
7	9024.294 53	9.8042	0.0189	9.8925	0.0707	2.587	1.823	16.58
7	9024.383 43	9.8488	0.0401	9.9252	0.0530	2.587	1.823	16.56
8	7917.314 54	11.6496	0.0178	11.7490	0.0988	2.507	3.042	17.22
8	7917.328 90	11.7986	0.0357	11.8179	0.0845	2.507	3.042	17.23
8	7917.492 33	11.6996	0.0149	11.7278	0.0422	2.507	3.040	17.26
8	7926.825 15	11.8987	0.0366	11.8967	0.0882	2.500	2.936	18.80
8	7926.914 03	11.8054	0.0499	11.8635	0.0866	2.500	2.935	18.82
8	7926.928 33	11.7736	0.0348	11.9142	0.1018	2.500	2.934	18.82

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> ac mag 3	σ <sub>H<sub>p</sub>ac</sub> mag 4	H <sub>p</sub> ac mag 5	σ <sub>H<sub>p</sub>ac</sub> mag 6	d AU 7	Δ AU 8	α deg 9
8	7927.002 93	11.9340	0.0239	11.9632	0.0819	2.499	2.934	18.83
8	7927.017 23	11.8478	0.0129	11.8649	0.0886	2.499	2.933	18.83
8	7927.091 82	11.7125	0.0360	11.8426	0.0419	2.499	2.932	18.84
8	7963.784 21	11.4041	0.0254	11.4460	0.0618	2.466	2.460	23.30
8	8012.581 16	10.7234	0.0361	10.8376	0.0764	2.408	1.789	22.10
8	8229.218 13	10.9066	0.0184	11.0334	0.0592	2.042	2.500	22.30
8	8229.232 46	10.9523	0.0215	10.9509	0.0523	2.042	2.500	22.30
8	8235.973 55	10.9549	0.0177	10.9826	0.0484	2.031	2.548	21.26
8	8235.987 88	10.8861	0.0154	10.8417	0.0372	2.031	2.548	21.25
8	8236.062 44	10.9638	0.0224	10.9712	0.0410	2.030	2.549	21.24
8	8236.076 76	10.9203	0.0333	10.9590	0.0271	2.030	2.549	21.24
8	8489.165 20	10.8930	0.0181	10.9097	0.0490	1.901	2.327	25.23
8	8489.239 76	10.9464	0.0168	10.9029	0.0260	1.901	2.326	25.24
8	8489.254 11	10.9361	0.0220	10.9567	0.0109	1.901	2.326	25.25
8	8489.328 64	10.9420	0.0342	10.9358	0.0525	1.901	2.326	25.26
8	8489.342 98	10.9091	0.0151	10.8479	0.0511	1.901	2.325	25.26
8	8489.417 55	10.9370	0.0193	10.9185	0.0457	1.901	2.325	25.27
8	8489.431 85							

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>dc</sub> mag 3	σ <sub>HP<sub>dc</sub></sub> mag 4	HP <sub>ac</sub> mag 5	σ <sub>HP<sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
10	8047.586 77	11.3319	0.0206	11.4296	0.0334	3.096	3.016	19.05
10	8073.879 08	11.0820	0.0116	11.1519	0.0493	3.127	2.688	18.20
10	8073.953 65	11.0554	0.0209	11.1230	0.0213	3.127	2.687	18.19
10	8073.967 97	11.0628	0.0238	11.1510	0.0648	3.127	2.687	18.19
10	8074.042 54	11.0488	0.0090	11.1003	0.0306	3.127	2.686	18.18
10	8074.056 85	11.0641	0.0225	11.1274	0.0673	3.127	2.685	18.18
10	8200.978 78	11.2277	0.0317	11.3058	0.0752	3.270	2.684	15.54
10	8201.053 33	11.2944	0.0212	11.2594	0.0583	3.270	2.685	15.55
10	8201.231 13	10.9684	0.0249	11.0629	0.0788	3.270	2.688	15.57
10	8247.792 01	11.7287	0.0322	11.7212	0.0404	3.318	3.397	16.81
10	8247.806 33	11.7270	0.0183	11.7970	0.0738	3.318	3.397	16.80
10	8441.884 26	12.0194	0.0245	12.1557	0.0392	3.466	3.947	13.89
10	8441.898 57	11.9264	0.0263	11.9486	0.0614	3.466	3.947	13.89
10	8441.973 19	12.0126	0.0308	11.9912	0.0748	3.466	3.946	13.90
10	8479.466 27	11.7096	0.0182	11.8582	0.1177	3.484	3.466	16.78
10	8479.480 55	11.8691	0.0533	11.9402	0.1253	3.484	3.466	16.78
10	8479.555 12	11.8387	0.0402	11.7230	0.0245	3.484	3.465	16.78
10	8479.569 45	11.7918	0.0366	11.7020	0.0697	3.484	3.465	16.78
10	8479.644 02	11.8808	0.0096	11.7841	0.0289	3.484	3.464	16.78
10	8510.119 13	11.5085	0.0333	11.5852	0.1245	3.496	3.040	15.86
10	8510.133 50	11.5393	0.0265	11.4610	0.0608	3.496	3.040	15.86
10	8510.208 02	11.7509	0.0209	11.7522	0.0789	3.496	3.039	15.85
10	8510.222 36	11.6401	0.0351	11.6758	0.0508	3.496	3.039	15.85
10	8526.930 38	11.4124	0.0365	11.5062	0.1009	3.501	2.829	13.62
10	8527.004 91	11.5818	0.0552	11.6205	0.1210	3.501	2.828	13.60
10	8527.019 26	11.4832	0.0774	11.4240	0.0398	3.501	2.827	13.60
10	8527.093 80	11.0644	0.0300	11.4155	0.1849	3.501	2.827	13.58
10	8650.136 09	11.7093	0.0200	11.7210	0.0676	3.516	3.228	16.08
10	8650.224 98	11.9457	0.0192	11.9426	0.0776	3.516	3.229	16.08
10	8650.239 31	11.9068	0.0226	12.0212	0.0846	3.516	3.229	16.09
10	8678.301 08	11.9817	0.0312	11.8949	0.0730	3.513	3.643	15.75
10	8678.315 42	11.9383	0.0288	11.9293	0.0561	3.513	3.643	15.75
10	8678.389 96	12.0882	0.0393	12.0403	0.0773	3.513	3.644	15.75
10	8678.404 31	12.0702	0.0386	11.8709	0.0547	3.513	3.645	15.75
10	8678.478 89	12.2054	0.0177	12.1669	0.0618	3.513	3.646	15.74
10	8678.493 20	12.0962	0.0375	12.0619	0.0967	3.513	3.646	15.74
10	8697.407 82	12.1709	0.0350	11.9892	0.0521	3.510	3.903	14.15
10	8697.422 15	12.0555	0.0342	12.2094	0.0581	3.510	3.903	14.15
10	8933.894 81	11.4439	0.0454	11.6038	0.0608	3.385	2.984	16.47
10	8933.909 17	11.3079	0.0361	11.4371	0.0817	3.385	2.983	16.47
10	9045.603 69	11.0082	0.0257	10.9206	0.0834	3.280	2.564	13.54
10	9045.618 00	10.9686	0.0155	11.0125	0.0242	3.280	2.564	13.55
10	9059.701 51	11.2536	0.0065	11.2613	0.0321	3.265	2.722	16.02
11	8144.425 03	12.0221	0.0463	12.0489	0.0780	2.585	2.931	19.79
11	8163.443 19	11.7759	0.0194	11.9113	0.0470	2.601	2.716	21.59
11	8193.459 37	11.7131	0.0273	11.7292	0.0500	2.624	2.342	22.18
11	8230.522 46	11.0787	0.0246	11.3161	0.1268	2.649	1.908	16.65
11	8230.952 59	11.0610	0.0163	11.1424	0.0342	2.649	1.903	16.54
11	8230.966 90	11.0945	0.0330	11.0661	0.0499	2.649	1.903	16.53
11	8231.574 81	11.0327	0.0099	11.0718	0.0336	2.649	1.897	16.37
11	8231.589 12	11.0096	0.0419	11.1421	0.0978	2.649	1.897	16.37
11	8231.663 69	11.0638	0.0133	11.1003	0.0476	2.649	1.896	16.35
11	8231.841 47	10.9360	0.0080	10.9710	0.0368	2.649	1.895	16.29
11	8231.855 79	10.8384	0.0362	11.0841	0.0676	2.649	1.895	16.29
11	8232.019 25	10.9845	0.0205	11.0618	0.0443	2.649	1.893	16.24
11	8232.033 57	11.0454	0.0389	11.0689	0.0625	2.649	1.893	16.24
11	8232.108 14	11.0278	0.0061	11.1530	0.0361	2.650	1.892	16.22
11	8232.285 92	11.0726	0.0084	11.0789	0.0482	2.650	1.891	16.16
11	8232.300 23	11.0350	0.0253	11.0848	0.0391	2.650	1.890	16.16
11	8232.463 69	10.9680	0.0270	11.0686	0.0410	2.650	1.889	16.12
11	8232.478 01	10.7101	0.0453	10.9983	0.0628	2.650	1.889	16.11
11	8232.552 59	11.0164	0.0149	11.1113	0.0356	2.650	1.888	16.09
11	8232.655 79	10.9971	0.0288	11.0126	0.0536	2.650	1.887	16.06
11	8232.730 37	11.0804	0.0208	11.0406	0.0650	2.650	1.886	16.04
11	8232.744 67	11.0101	0.0296	11.0157	0.0468	2.650	1.886	16.03
11	8232.922 45	11.0387	0.0218	10.9408	0.0641	2.650	1.884	15.99
11	8232.997 03	11.0043	0.0179	10.9467	0.0280	2.650	1.884	15.97
11	8233.174 80	11.0260	0.0178	11.0761	0.0332	2.650	1.882	15.91
11	8233.189 11	10.9840	0.0106	10.9750	0.0347	2.650	1.882	15.91
11	8233.352 58	11.0667	0.0095	11.0968	0.0202	2.650	1.880	15.86
11	8233.366 90	11.1402	0.0307	11.1089	0.0218	2.650	1.880	15.86
11	8233.441 47	11.0641	0.0180	10.9859	0.0175	2.650	1.879	15.84
11	8233.619 25	10.9211	0.0074	10.9821	0.0773	2.650	1.878	15.78
11	8233.633 56	10.9507	0.0187	10.9436	0.0721	2.650	1.878	15.78
11	8315.312 52	11.0727	0.0293	11.0843	0.0661	2.686	1.949	16.58
11	8315.401 41	11.1001	0.0220	11.1681	0.0244	2.686	1.950	16.60
11	8315.490 29	11.1670	0.0150	11.1549	0.0474	2.686	1.951	16.63
11	8315.504 59	11.1419	0.0093	11.1349	0.0336	2.686	1.951	16.63
11	8315.682 38	11.1018	0.0330	11.1941	0.0405	2.686	1.953	16.68
11	8328.999 80	11.3756	0.0100	11.3798	0.0339	2.690	2.109	19.45
11	8329.014 13	11.3420	0.0220	11.3650	0.0224	2.690	2.109	19.45
11	8329.088 71	11.3705	0.0213	11.3818	0.0498	2.690	2.110	19.46
11	8329.103 01	11.3368	0.0178	11.4002	0.0499	2.690	2.110	19.47
11	8361.162 25	11.7364	0.0211	11.9639	0.0631	2.695	2.535	21.79
11	8361.251 15	11.8640	0.0418	11.9434	0.0806	2.695	2.537	21.79
11	8361.265 48	11.8568	0.0611	11.9075	0.0717	2.695	2.537	21.79
11	8410.744 04	12.4655	0.0468	12.5321	0.0963	2.695	3.154	17.80
11	8410.758 37	12.2770	0.0349	12.3121	0.0599	2.695	3.155	17.80
11	8410.832 91	12.2545	0.0817	12.0120	0.1025	2.695	3.155	17.79
11	8410.847 23	12.1367	0.0478	12.2404	0.0915	2.695	3.155	17.79
11	8410.921 79	12.0857	0.0199	12.1330	0.0916	2.695	3.156	17.77
11	8410.936 12	11.7630	0.0524	12.0654	0.1448	2.695	3.156	17.77
11	8601.043 47	12.1628	0.0331	12.1227	0.0263	2.608	3.058	17.91
11	8601.057 80	12.1409	0.0232	12.1972	0.0866	2.608	3.058	17.91
11	8615.707 93	12.0701	0.0422	11.9215	0.0693	2.596	2.876	19.92
11	8615.722 25	12.1133	0.0223	12.0767	0.0259	2.596	2.876	19.93
11	8615.796 86	12.2781	0.0291	12.2125	0.0724	2.596	2.875	19.94
11	8615.811 14	12.1332	0.0430	12.1789	0.0387	2.596	2.874	19.94
11	8647.780 48	11.8517	0.0309	11.8952	0.0326	2.567	2.435	22.52

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>dc</sub> mag 3	σ <sub>HP<sub>dc</sub></sub> mag 4	HP <sub>ac</sub> mag 5	σ <sub>HP<sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
11	8647.794 78	11.8553	0.0155	11.7856	0.0271	2.567	2.434	22.52
11	8647.869 35	11.7885	0.0178	11.8284	0.0208	2.567	2.433	22.52
11	8647.883 68	11.6505	0.0324	11.8283	0.0618	2.567	2.433	22.52
11	8678.254 19	11.4586	0.0240	11.3390	0.0504	2.538	2.009	21.32
11	8678.268 53	11.3795	0.0281	11.3692	0.0820	2.538	2.009	21.32
11	8678.343 12	11.4123	0.0227	11.3825	0.0657	2.538	2.008	21.31
11	8678.357 42	11.4898	0.0632	11.6579	0.1232	2.538	2.008	21.31
11	8693.540 40	10.9610	0.0249	11.0668	0.0680	2.523	1.817	18.73
11	8693.554 72	10.9737	0.0187	10.8956	0.0499	2.523	1.817	18.73
11	8693.718 14	11.0654	0.0131	11.0614	0.0590	2.523	1.815	18.69
11	8693.732 49	11.0561	0.0306	10.9805	0.0293	2.523	1.815	18.69
11	8823.003 67	11.4221	0.0132	11.2828	0.0932	2.383	2.018	24.92
12	7880.402 05	11.3892	0.0134	11.5223	0.0550	2.099	1.967	27.76
12	7880.416 36	11.4229	0.0197	11.3769	0.0743	2.099	1.967	27.76
12	7903							

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> <sub>dc</sub> mag 3	σ <sub>H<sub>p</sub><sub>dc</sub></sub> mag 4	H <sub>p</sub> <sub>ac</sub> mag 5	σ <sub>H<sub>p</sub><sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
14	8563.122 33	11.2536	0.0085	11.3133	0.0829	2.366	2.299	24.58
14	8589.510 81	10.7405	0.0163	10.8344	0.0472	2.323	1.934	24.79
14	8589.585 35	10.9262	0.0227	10.9794	0.0485	2.323	1.933	24.79
14	8589.599 64	10.9219	0.0108	10.8874	0.0280	2.323	1.933	24.79
14	8715.100 96	10.0762	0.0110	10.0982	0.0197	2.175	1.454	22.31
14	8715.175 52	10.1483	0.0242	10.1567	0.0319	2.175	1.454	22.34
14	8715.189 84	10.1540	0.0155	10.1981	0.0251	2.175	1.454	22.34
14	8731.009 08	10.3374	0.0063	10.4008	0.0279	2.166	1.599	25.60
14	8731.083 66	10.4850	0.0099	10.4672	0.0457	2.166	1.599	25.62
14	8731.097 97	10.4869	0.0175	10.4987	0.0388	2.166	1.599	25.62
14	8731.172 52	10.4522	0.0219	10.4521	0.0536	2.166	1.600	25.63
14	8731.186 85	10.4787	0.0243	10.4169	0.0241	2.166	1.600	25.64
14	8763.067 62	11.0609	0.0500	11.2240	0.0930	2.155	1.930	27.89
14	8763.081 95	10.9746	0.0334	11.2982	0.0708	2.155	1.931	27.89
14	8763.156 53	10.9863	0.0181	10.8900	0.0270	2.155	1.931	27.89
14	8763.170 86	11.0071	0.0168	11.0194	0.0355	2.155	1.932	27.89
14	8795.155 74	11.2135	0.0149	11.3135	0.0256	2.155	2.270	26.81
14	8795.333 52	11.2622	0.0091	11.2709	0.0539	2.155	2.272	26.28
15	7882.624 32	10.1602	0.0122	10.2518	0.0420	2.174	2.215	25.89
15	7882.638 64	10.1344	0.0212	10.2022	0.0299	2.174	2.215	25.89
15	8146.111 61	10.5278	0.0199	10.5325	0.0329	2.370	2.844	19.70
15	8146.186 17	10.3370	0.0089	10.4355	0.0305	2.370	2.844	19.71
15	8146.200 50	10.3310	0.0252	10.3711	0.0727	2.370	2.844	19.71
15	8146.275 06	10.6918	0.0235	10.7583	0.0347	2.370	2.843	19.72
15	8146.289 38	10.5388	0.0138	10.5760	0.0493	2.370	2.843	19.72
15	8146.452 80	10.3223	0.0091	10.2603	0.0222	2.370	2.842	19.75
15	8194.967 73	10.0600	0.0119	10.0419	0.0309	2.462	3.264	23.66
15	8195.056 62	10.3613	0.0275	10.4168	0.0197	2.462	3.264	23.66
15	8224.732 12	9.8383	0.0092	9.8669	0.0166	2.521	2.034	21.87
15	8224.746 47	9.8067	0.0110	9.8669	0.0312	2.521	2.034	21.87
15	8224.821 03	10.0814	0.0136	10.0950	0.0032	2.521	2.033	21.86
15	8224.835 38	9.9423	0.0077	10.0961	0.0242	2.521	2.033	21.86
15	8241.618 04	9.5082	0.0058	9.5465	0.0211	2.554	1.866	18.56
15	8241.632 36	9.6172	0.0111	9.6904	0.0145	2.554	1.866	18.56
15	8362.402 83	10.4878	0.0281	10.5303	0.0624	2.786	2.418	20.67
15	8362.417 18	10.6124	0.0132	10.6535	0.0459	2.786	2.418	20.67
15	8412.443 97	10.9641	0.0206	10.9955	0.0447	2.870	3.156	18.58
15	8412.518 56	11.0862	0.0219	10.9663	0.0491	2.870	3.157	18.57
15	8412.532 85	10.9960	0.0273	11.1126	0.0583	2.870	3.157	18.57
15	8603.357 36	11.2248	0.0314	11.2645	0.0363	3.092	3.555	15.11
15	8603.371 69	11.4326	0.0312	11.3731	0.0664	3.092	3.555	15.11
15	8603.446 25	11.5298	0.0416	11.6270	0.0811	3.092	3.554	15.12
15	8603.460 57	11.3855	0.0451	11.4500	0.0993	3.092	3.554	15.12
15	8603.535 12	11.5300	0.0446	11.6272	0.0247	3.092	3.553	15.13
15	8603.549 47	11.5142	0.0669	11.5252	0.1281	3.092	3.553	15.13
15	8618.036 37	11.2920	0.0237	11.2620	0.0556	3.101	3.382	16.78
15	8618.110 93	11.5953	0.0203	11.6970	0.0827	3.101	3.381	16.78
15	8618.125 30	11.5985	0.0231	11.6265	0.0340	3.101	3.381	16.79
15	8618.199 85	11.2472	0.0311	11.2858	0.0651	3.101	3.380	16.79
15	8650.094 93	10.9727	0.0217	10.9843	0.0460	3.117	2.953	18.43
15	8650.109 23	10.9149	0.0167	10.9604	0.0256	3.117	2.953	18.43
15	8683.160 99	10.6248	0.0313	10.5983	0.0473	3.128	2.515	15.93
15	8683.235 56	10.8514	0.0496	10.7169	0.0255	3.128	2.514	15.92
15	8683.249 89	10.9509	0.0375	10.9612	0.0899	3.128	2.514	15.91
15	8683.324 47	10.4869	0.0331	10.5048	0.0447	3.128	2.513	15.90
15	8683.338 77	10.6830	0.0205	10.6885	0.0411	3.128	2.513	15.90
15	8694.701 51	10.3764	0.0141	10.4060	0.0261	3.130	2.387	13.81
15	8694.715 83	10.3256	0.0245	10.3993	0.0267	3.130	2.387	13.81
15	8694.790 40	10.7028	0.0247	10.6740	0.0499	3.130	2.386	13.79
15	8694.804 74	10.6622	0.0330	10.6653	0.0718	3.130	2.386	13.79
15	8694.879 28	10.5623	0.0288	10.6124	0.0193	3.130	2.385	13.77
15	8694.893 62	10.7141	0.0458	10.8324	0.0594	3.130	2.385	13.77
15	8695.057 12	10.5836	0.0341	10.5619	0.0656	3.130	2.384	13.73
15	8695.071 40	10.5330	0.0214	10.4564	0.0449	3.130	2.383	13.73
15	8773.809 98	10.3394	0.0290	10.3323	0.0705	3.126	2.345	13.59
15	8773.824 32	10.5414	0.0140	10.5522	0.0491	3.126	2.345	13.60
15	8773.987 78	10.4943	0.0414	10.8573	0.0853	3.126	2.347	13.63
15	8774.002 08	10.5569	0.0249	10.4360	0.0203	3.126	2.347	13.63
15	8774.076 64	10.4832	0.0242	10.4653	0.0231	3.126	2.348	13.65
15	8774.090 97	10.6712	0.0200	10.6656	0.0496	3.126	2.348	13.65
15	8774.165 54	10.3554	0.0180	10.4324	0.0102	3.126	2.349	13.67
15	8774.179 86	10.2932	0.0215	10.3112	0.0084	3.126	2.349	13.67
15	8774.254 46	10.5589	0.0288	10.6403	0.0375	3.126	2.349	13.69
15	8774.268 79	10.4206	0.0214	10.4875	0.0363	3.126	2.350	13.70
15	8774.446 54	10.3670	0.0043	10.3367	0.0262	3.126	2.351	13.73
15	8774.521 10	10.4452	0.0190	10.4106	0.0147	3.126	2.352	13.75
15	8774.535 43	10.3142	0.0161	10.3277	0.0542	3.126	2.352	13.75
15	8774.609 97	10.6865	0.0128	10.7366	0.0601	3.126	2.353	13.77
15	8774.624 32	10.6808	0.0167	10.6771	0.0484	3.126	2.353	13.77
15	8774.698 89	10.3842	0.0162	10.3873	0.0227	3.126	2.354	13.79
15	8774.713 20	10.4957	0.0164	10.4959	0.0180	3.126	2.354	13.79
15	8780.209 97	10.6823	0.0225	10.7343	0.0448	3.124	2.407	14.93
15	8780.224 30	10.5481	0.0219	10.6014	0.0632	3.124	2.408	14.94
15	8780.298 84	10.6631	0.0382	10.7882	0.0597	3.124	2.408	14.95
15	8780.387 75	10.4762	0.0416	10.5514	0.0067	3.124	2.409	14.97
15	8780.402 07	10.4966	0.0172	10.5010	0.0871	3.124	2.409	14.97
15	8780.476 64	10.7173	0.0336	10.7093	0.0713	3.124	2.410	14.99
15	8780.490 96	10.4920	0.0247	10.3373	0.0551	3.124	2.410	14.99
15	8780.654 41	10.5870	0.0224	10.6055	0.0663	3.124	2.412	15.02
15	8780.668 76	10.6029	0.0248	10.6141	0.0183	3.124	2.412	15.02
15	8780.743 32	10.5079	0.0275	10.4450	0.0832	3.124	2.413	15.04
15	8780.757 66	10.4167	0.0179	10.5015	0.0448	3.124	2.413	15.04
15	8780.832 19	10.8041	0.0173	10.7611	0.0491	3.124	2.414	15.06
15	8780.846 54	10.6542	0.0304	10.6214	0.0150	3.124	2.414	15.06
15	8818.908 60	10.8699	0.0120	10.8715	0.0400	3.108	2.877	19.00
15	8818.922 92	10.9883	0.0273	10.9219	0.0541	3.108	2.877	19.00
15	8818.997 48	11.1403	0.0180	11.1570	0.0315	3.108	2.878	19.01
15	8819.011 78	10.9684	0.0161	11.0086	0.0636	3.108	2.878	19.01
15	9044.677 50	10.9639	0.0378	10.7249	0.0467	2.858	3.306	16.51

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> <sub>dc</sub> mag 3	σ <sub>H<sub>p</sub><sub>dc</sub></sub> mag 4	H <sub>p</sub> <sub>ac</sub> mag 5	σ <sub>H<sub>p</sub><sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
15	9044.691 86	10.8835	0.0330	11.0384	0.0727	2.858	3.306	16.51
15	9044.954 77	10.8679	0.0108	10.9359	0.0527	2.857	3.303	16.55
16	7894.530 18	11.4757	0.0302	11.5074	0.0619	2.572	3.109	16.77
16	7894.544 51	11.4240	0.0353	11.5006	0.0218	2.572	3.109	16.77
16	7894.619 05	11.3312	0.0144	11.4466	0.0363	2.572	3.109	16.76
16	7894.633 40	11.3198	0.0369	11.3568	0.0303	2.572	3.110	16.75
16	8087.722 63	11.1192	0.0112	11.1158	0.0512	2.552	2.989	19.13
16	8087.736 96	11.0602	0.0252	11.1727	0.0334	2.552	2.989	19.13
16	8103.720 48	11.1319	0.0118	11.0858	0.0534	2.560	2.824	21.00
16	8103.809 35	10.9979	0.0160	11.0298	0.0053	2.560	2.823	21.01
16	8103.823 65	10.7978	0.0256	11.0664	0.0471	2.560	2.823	21.01
16	8137.941 32	10.8259	0.0274	10.8641	0.0656	2.582	2.432	22.97
16	8138.015 89	10.9321	0.0305	10.9628	0.0891	2.582	2.431	22.97
16	8185.287 99	10.2526	0.0169	10.2740	0.0338	2.622	1.901	1

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>pac</sub> mag 3	$\sigma_{HP_{pac}}$ mag 4	HP <sub>pac</sub> mag 5	$\sigma_{HP_{pac}}$ mag 6	d AU 7	$\Delta$ AU 8	$\alpha$ deg 9
18	8353.919 61	11.1174	0.0168	11.1891	0.0425	2.587	2.031	20.85
18	8353.933 99	11.2585	0.0360	11.1743	0.0745	2.587	2.030	20.85
18	8354.008 51	11.2927	0.0124	11.2663	0.0343	2.587	2.029	20.84
18	8354.022 84	11.3267	0.0305	11.4071	0.0587	2.587	2.029	20.84
18	8354.097 40	11.0921	0.0301	11.2231	0.0252	2.587	2.028	20.84
18	8354.111 72	11.1566	0.0167	11.1607	0.0478	2.587	2.028	20.83
18	8484.400 01	10.8509	0.0077	10.8526	0.0328	2.304	1.803	24.95
18	8484.414 31	10.9127	0.0193	10.9165	0.0386	2.304	1.803	24.95
18	8509.190 70	11.0340	0.0279	10.9686	0.0486	2.242	2.037	26.72
18	8509.205 02	11.0839	0.0157	11.1402	0.0743	2.242	2.037	26.72
18	8509.279 59	11.1949	0.0130	11.1913	0.0532	2.242	2.038	26.72
18	8509.293 89	11.2187	0.0201	11.1636	0.0295	2.242	2.038	26.72
18	8574.081 76	11.2668	0.0063	11.4339	0.0350	2.079	2.576	21.41
18	8574.170 65	10.9807	0.0124	11.0484	0.0271	2.079	2.577	21.39
18	8574.185 00	11.2005	0.0145	11.3027	0.1144	2.079	2.577	21.39
18	8574.273 87	10.8073	0.0151	11.1307	0.0734	2.079	2.577	21.38
18	8574.437 32	11.1039	0.0378	11.2122	0.0724	2.079	2.578	21.36
18	8574.451 65	10.8120	0.0159	11.0290	0.0392	2.078	2.578	21.35
18	8574.526 22	11.1848	0.0208	11.2162	0.0434	2.078	2.579	21.34
18	8574.540 54	11.1840	0.0152	11.3153	0.0577	2.078	2.579	21.34
18	8574.615 10	11.3563	0.0301	11.3262	0.0514	2.078	2.579	21.33
18	8574.629 42	11.2990	0.0265	11.3479	0.0522	2.078	2.579	21.32
18	8574.984 98	11.1577	0.0166	11.3147	0.0527	2.077	2.582	21.27
18	8575.073 88	11.4865	0.0635	11.4434	0.0966	2.077	2.582	21.26
18	8578.615 01	11.0925	0.0205	11.1646	0.0266	2.068	2.604	20.71
18	8578.881 69	11.2667	0.0108	11.2609	0.0347	2.068	2.606	20.67
18	8578.895 98	11.2893	0.0080	11.2894	0.0586	2.068	2.606	20.67
18	8578.970 55	11.2365	0.0232	11.2869	0.0678	2.067	2.606	20.66
18	8579.059 45	11.1590	0.0251	11.1278	0.0515	2.067	2.607	20.64
18	8579.162 65	11.4454	0.0314	11.5002	0.0392	2.067	2.607	20.63
18	8579.326 13	11.1585	0.0471	11.2943	0.0960	2.067	2.608	20.60
18	8579.414 97	11.3839	0.0478	11.4738	0.0913	2.066	2.609	20.59
18	8579.429 35	10.9666	0.0351	10.9837	0.0432	2.066	2.609	20.59
18	8579.503 88	11.2359	0.0571	11.1753	0.0683	2.066	2.610	20.57
18	8579.592 78	11.0078	0.0379	11.1730	0.0484	2.066	2.610	20.56
18	8832.790 62	10.7408	0.0285	10.8682	0.0675	1.847	2.290	25.61
18	8832.804 95	10.7979	0.0230	10.8239	0.0443	1.847	2.290	25.61
18	8832.981 51	10.9162	0.0278	11.0018	0.0631	1.847	2.289	25.63
18	8833.056 08	10.7120	0.0354	10.7426	0.0500	1.847	2.289	25.64
18	8833.070 38	10.7147	0.0154	10.7907	0.0689	1.847	2.289	25.64
18	8833.144 95	10.7925	0.0204	10.8662	0.0287	1.848	2.288	25.65
18	8833.159 26	10.8591	0.0441	10.8003	0.0749	1.848	2.288	25.65
18	8935.495 98	10.2674	0.0099	10.2697	0.0414	2.049	1.496	27.32
18	8935.510 30	10.1740	0.0286	10.1943	0.0678	2.049	1.496	27.31
18	8935.584 85	10.0817	0.0188	10.1118	0.0578	2.049	1.495	27.30
18	8935.599 19	10.1940	0.0400	10.1359	0.0470	2.049	1.495	27.30
18	9043.210 15	10.5279	0.0150	10.5371	0.0429	2.317	1.584	19.99
18	9043.224 47	10.5496	0.0192	10.6344	0.0397	2.317	1.585	19.99
18	9043.299 04	10.3596	0.0107	10.4086	0.0413	2.318	1.586	20.01
18	9043.313 37	10.3514	0.0194	10.3171	0.0339	2.318	1.586	20.01
18	9043.402 22	10.5326	0.0230	10.4621	0.0558	2.318	1.587	20.03
18	9059.700 35	10.7413	0.0211	10.7238	0.0739	2.357	1.801	23.01
18	9059.714 65	10.8282	0.0427	10.7506	0.0744	2.357	1.801	23.01
19	8087.988 51	11.8906	0.0219	12.0661	0.0508	2.057	2.500	23.27
19	8088.166 28	12.1331	0.0518	12.0466	0.0445	2.057	2.499	23.30
19	8088.180 64	12.1802	0.0452	12.1215	0.0358	2.057	2.498	23.30
19	8088.255 17	11.8653	0.0259	11.9580	0.0679	2.057	2.498	23.31
19	8088.269 52	11.9394	0.0215	12.1230	0.0775	2.057	2.498	23.31
19	8102.209 35	11.8815	0.0490	11.8141	0.0258	2.059	2.376	25.18
19	8139.258 30	11.6978	0.0297	11.6631	0.0770	2.076	2.020	28.47
19	8139.272 62	11.6325	0.0188	11.5706	0.0510	2.076	2.020	28.47
19	8309.536 98	11.3049	0.0298	11.3322	0.0653	2.296	1.711	23.20
19	8309.551 31	11.2772	0.0577	11.2584	0.0889	2.296	1.712	23.20
19	8309.625 88	11.4764	0.0280	11.4927	0.0480	2.296	1.713	23.21
19	8309.640 20	11.5488	0.0588	11.6032	0.0871	2.296	1.713	23.21
19	8309.714 75	11.1544	0.0243	11.2981	0.1031	2.296	1.714	23.22
19	8309.729 07	11.3208	0.0141	11.3264	0.0456	2.296	1.714	23.22
19	8331.930 10	11.8666	0.0344	11.6874	0.0686	2.334	2.013	25.04
19	8331.944 44	11.9194	0.0450	11.8304	0.0406	2.334	2.013	25.04
19	8358.586 24	12.0529	0.0381	12.1334	0.0203	2.381	2.386	24.23
19	8358.600 56	11.3366	0.0257	11.5077	0.0612	2.381	2.386	24.23
19	8358.764 01	12.1309	0.0403	12.1259	0.0939	2.381	2.389	24.21
19	8358.778 33	12.2983	0.0504	12.4230	0.1260	2.381	2.389	24.21
19	8771.858 75	12.3499	0.0573	12.2378	0.0721	2.826	2.092	16.39
19	8771.873 07	12.1830	0.0206	12.0813	0.0586	2.826	2.092	16.39
19	8771.947 63	12.1618	0.0464	12.0215	0.0467	2.826	2.093	16.41
19	8771.961 94	12.1928	0.0325	12.2278	0.0719	2.826	2.093	16.41
19	8772.036 50	12.2519	0.0383	12.1292	0.0791	2.826	2.094	16.43
19	8772.050 86	12.1797	0.0489	12.0471	0.0539	2.826	2.094	16.43
19	8787.056 67	12.7780	0.0921	12.6423	0.1051	2.826	2.268	19.20
19	8787.071 03	12.6492	0.0376	12.6463	0.0717	2.826	2.269	19.20
19	8787.145 58	12.1040	0.0311	12.3189	0.0298	2.826	2.269	19.21
19	8787.159 92	12.2488	0.0351	12.3413	0.0404	2.826	2.270	19.22
20	7984.578 73	12.2847	0.0421	12.3127	0.0846	2.738	3.141	17.96
20	7984.593 06	12.2454	0.0259	12.1911	0.0610	2.738	3.140	17.97
20	7984.756 51	12.1944	0.0420	12.3730	0.0758	2.738	3.138	17.99
20	7984.770 82	12.2904	0.0488	12.3193	0.0958	2.738	3.138	17.99
20	7984.859 75	11.9993	0.0338	11.8943	0.0601	2.738	3.137	18.00
20	8196.433 41	11.2601	0.0304	11.1702	0.0703	2.536	2.130	22.51
20	8196.447 74	11.0875	0.0079	11.0212	0.0608	2.536	2.130	22.51
20	8196.522 30	11.3497	0.0448	11.3911	0.0544	2.536	2.131	22.52
20	8196.536 65	11.2752	0.0297	11.2999	0.0559	2.536	2.131	22.52
20	8223.177 77	11.6690	0.0149	11.6678	0.0471	2.497	2.447	23.02
20	8223.192 09	11.6137	0.0355	11.7038	0.0694	2.497	2.447	23.02
20	8223.269 87	11.6022	0.0239	11.4618	0.0365	2.497	2.449	23.01
20	8244.682 46	11.6814	0.0453	11.6970	0.0707	2.465	2.688	21.47
20	8244.696 77	11.6222	0.0135	11.6906	0.0610	2.465	2.689	21.47
20	8244.771 35	11.8297	0.0313	11.7605	0.0443	2.465	2.689	21.46

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>pac</sub> mag 3	$\sigma_{HP_{pac}}$ mag 4	HP <sub>pac</sub> mag 5	$\sigma_{HP_{pac}}$ mag 6	d AU 7	$\Delta$ AU 8	$\alpha$ deg 9
20	8244.785 66	11.8523	0.0220	11.8899	0.0595	2.465	2.689	21.46
20	8244.860 25	11.5892	0.0258	11.5647	0.0530	2.464	2.690	21.45
20	8487.387 29	11.2516	0.0417	11.2071	0.0799	2.115	2.506	23.42
20	8487.461 84	11.4067	0.0319	11.5823	0.1039	2.115	2.505	23.44
20	8487.476 17	11.4088	0.0358	11.3828	0.0524	2.114	2.505	23.44
20	8487.550 72	11.1285	0.0163	11.1715	0.0510	2.114	2.504	23.45
20	8487.565 06	11.1508	0.0153	11.1493	0.0761	2.114	2.504	23.45
20	8503.459 55	8.3703	0.0576	8.6212	0.0863	2.100	2.338	25.59
20	8503.473 86	11.2716	0.0419	11.3925	0.0817	2.100	2.338	25.60
20	8503.548 44	11.1352	0.0294	10.9880	0.0476	2.100	2.337	25.61
20	8503.562 74	11.1056	0.0084	11.2348	0.0801	2.100	2.337	25.61
20	8503.637 34	11.2729	0.0530	11.2322	0.0745	2.100	2.336	25.61
20	8503.651 68	11.0931	0.0164	11.2055	0.0769	2.100	2.336	25.62
20	8538.140 86	10.7652	0.0247	10.7879	0.0460	2.077	1.951	28.59
20	8538.155 17	10.7412	0.0137	10.7977	0.0583	2.077	1.950	28.59
20	8538.229 75							

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> <sub>dc</sub> mag 3	σ <sub>H<sub>p</sub><sub>dc</sub></sub> mag 4	H <sub>p</sub> <sub>ac</sub> mag 5	σ <sub>H<sub>p</sub><sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
22	8749.667 34	12.2744	0.0340	12.3989	0.0523	2.710	3.284	15.91
22	8749.741 92	12.5060	0.0487	12.3122	0.1046	2.710	3.284	15.90
22	8749.756 26	12.2672	0.0432	12.3222	0.1302	2.710	3.285	15.90
22	8939.486 46	12.3219	0.0256	12.4478	0.0964	2.880	3.210	17.74
22	8939.500 78	12.3116	0.0227	12.2847	0.0448	2.880	3.210	17.74
22	8939.575 32	12.2936	0.0347	12.2422	0.0423	2.880	3.209	17.75
22	8939.589 64	12.3296	0.0301	12.3091	0.0898	2.880	3.209	17.75
22	8939.678 55	12.2239	0.0552	12.2259	0.0353	2.880	3.208	17.76
22	9009.108 03	11.6874	0.0108	11.6102	0.0493	2.947	2.368	17.40
22	9009.122 34	11.7105	0.0305	11.6661	0.1101	2.947	2.368	17.40
23	7876.622 75	11.2170	0.0188	11.2039	0.0505	2.060	1.915	28.37
23	7876.637 10	11.2347	0.0098	11.3076	0.0621	2.061	1.915	28.37
23	7876.711 67	11.2017	0.0251	11.1932	0.0226	2.061	1.914	28.37
23	8029.846 97	11.0580	0.0468	11.1207	0.0748	2.350	1.641	21.15
23	8029.861 28	11.0150	0.0198	10.9622	0.0360	2.351	1.641	21.15
23	8029.935 85	11.0600	0.0230	11.1095	0.0252	2.351	1.642	21.17
23	8029.950 17	11.0694	0.0143	11.1047	0.0496	2.351	1.642	21.17
23	8046.910 13	11.1685	0.0303	11.1518	0.0238	2.392	1.859	23.61
23	8046.924 46	11.3336	0.0093	11.3365	0.0321	2.392	1.859	23.61
23	8046.999 04	11.4173	0.0157	11.3455	0.0248	2.392	1.860	23.62
23	8078.530 27	11.9003	0.0172	12.1567	0.1091	2.471	2.309	24.25
23	8112.025 09	12.5580	0.0524	12.5807	0.1027	2.555	2.791	21.28
23	8112.039 38	12.3716	0.0320	12.3326	0.0859	2.555	2.791	21.28
23	8112.113 98	12.4607	0.0268	12.4787	0.0420	2.555	2.793	21.27
23	8112.128 29	12.5154	0.0294	12.5290	0.0677	2.555	2.793	21.27
23	8128.823 07	12.6010	0.0467	12.7986	0.1001	2.596	3.018	18.89
23	8128.837 38	12.6726	0.0800	12.5673	0.1151	2.596	3.018	18.89
23	8128.911 95	12.4942	0.0457	12.6700	0.0909	2.597	3.019	18.88
23	8128.926 27	12.6436	0.0414	12.7027	0.1022	2.597	3.019	18.88
23	8129.000 84	12.4303	0.0625	12.6001	0.1268	2.597	3.021	18.87
23	8129.015 15	12.5233	0.0633	12.6206	0.0258	2.597	3.021	18.87
23	8129.089 73	12.6309	0.0736	12.7182	0.0712	2.597	3.022	18.85
23	8129.104 03	12.4676	0.0492	12.6688	0.0649	2.597	3.022	18.85
23	8401.457 53	12.3399	0.0348	12.4094	0.0652	3.121	2.360	14.07
23	8401.471 86	12.3761	0.0349	12.3974	0.0726	3.121	2.360	14.07
23	8401.546 41	12.3900	0.0316	12.2962	0.0813	3.121	2.359	14.05
23	8401.560 72	12.1969	0.0395	12.1614	0.0610	3.121	2.359	14.05
23	8401.635 32	12.2974	0.0456	12.2810	0.0817	3.121	2.359	14.03
23	8401.649 65	12.2770	0.0203	12.2029	0.0610	3.122	2.359	14.03
23	8401.827 39	12.2825	0.0393	12.3792	0.0992	3.122	2.357	13.99
23	8401.902 00	12.2010	0.0402	12.3960	0.1609	3.122	2.356	13.97
23	8401.916 29	12.3503	0.0339	12.5603	0.0307	3.122	2.356	13.97
23	8401.990 88	12.4864	0.0325	12.4846	0.0920	3.122	2.355	13.95
23	8402.005 19	12.3690	0.0309	12.4306	0.0843	3.122	2.355	13.95
23	8402.079 78	12.1959	0.0327	12.2742	0.1345	3.122	2.354	13.93
23	8402.257 55	12.3432	0.0604	12.5047	0.1238	3.122	2.353	13.89
23	8402.271 86	12.4057	0.0289	12.4491	0.0344	3.122	2.353	13.89
23	8402.346 44	12.2179	0.0435	12.2994	0.0495	3.122	2.352	13.87
23	8402.360 73	12.3449	0.0297	12.3832	0.0975	3.122	2.352	13.86
23	8402.435 33	12.4539	0.0547	12.5376	0.0948	3.122	2.351	13.85
23	8402.449 64	12.1563	0.0246	12.2718	0.0648	3.122	2.351	13.84
23	8402.790 88	12.3365	0.0277	12.1939	0.0831	3.123	2.348	13.76
23	8402.968 69	12.4121	0.0867	12.4802	0.1202	3.123	2.346	13.72
23	8488.303 36	12.3638	0.0210	12.5068	0.2246	3.202	2.456	14.04
23	8488.317 65	12.2560	0.0361	12.5005	0.1361	3.202	2.457	14.04
23	8488.392 25	12.4606	0.0501	12.4093	0.0812	3.202	2.457	14.06
23	8488.406 53	12.3887	0.0140	12.4198	0.0670	3.202	2.458	14.06
23	8488.495 43	12.3003	0.0663	12.3160	0.0889	3.202	2.459	14.08
23	8488.570 04	12.3708	0.0524	12.4127	0.0485	3.202	2.460	14.09
23	8501.813 09	12.5099	0.0712	12.6547	0.1075	3.210	2.625	16.31
23	8501.827 44	12.2566	0.0328	12.6033	0.0643	3.210	2.625	16.31
23	8502.094 10	12.2914	0.0354	12.2404	0.1559	3.210	2.629	16.35
23	8938.642 51	12.1349	0.0447	12.0368	0.0543	2.854	2.297	18.50
23	8938.656 83	12.0481	0.0375	12.1850	0.1031	2.854	2.297	18.50
23	8938.731 39	12.1174	0.0565	12.1057	0.0795	2.854	2.298	18.51
23	8938.745 72	12.2804	0.0521	12.3486	0.0792	2.854	2.298	18.51
23	8938.820 27	11.9698	0.0412	12.0517	0.0387	2.854	2.299	18.53
23	8938.834 58	12.2983	0.0289	12.3079	0.1499	2.854	2.299	18.53
23	8962.288 72	12.1544	0.0433	12.2210	0.1190	2.804	2.565	20.63
23	9012.174 46	12.5986	0.0540	12.4788	0.1166	2.690	3.107	17.81
23	9012.263 33	12.6655	0.0674	12.5871	0.0614	2.690	3.107	17.79
23	9012.277 64	12.5092	0.0568	12.5038	0.0903	2.690	3.108	17.79
23	9012.352 23	12.8321	0.0984	12.8563	0.1104	2.690	3.108	17.78
23	9012.366 55	12.7719	0.0629	12.6938	0.0439	2.690	3.108	17.78
23	9022.447 87	12.6015	0.0640	12.3999	0.0696	2.666	3.195	16.42
23	9022.462 19	11.9891	0.0296	12.2484	0.0980	2.666	3.195	16.42
27	7884.308 46	12.2044	0.0644	12.1598	0.1144	2.358	2.745	20.48
27	7884.322 76	12.1214	0.0186	12.0892	0.0482	2.358	2.746	20.47
27	7884.397 34	12.1944	0.0313	12.2070	0.0454	2.358	2.746	20.46
27	7895.418 81	12.1382	0.0222	12.4272	0.0678	2.337	2.840	18.88
27	7895.433 14	12.1805	0.0567	12.5097	0.1074	2.337	2.840	18.88
27	7895.507 70	12.0040	0.0335	12.0383	0.0266	2.336	2.841	18.87
27	7895.522 01	11.9795	0.0346	12.0956	0.1020	2.336	2.841	18.87
27	8143.002 92	11.2974	0.0158	11.3285	0.0985	1.956	2.196	27.32
27	8143.077 48	11.4127	0.0101	11.3433	0.0385	1.956	2.195	27.33
27	8162.983 96	11.1062	0.0178	11.2368	0.0519	1.948	1.997	29.41
27	8162.998 29	11.1169	0.0131	11.1812	0.0537	1.948	1.997	29.42
27	8163.072 86	11.1891	0.0242	11.1598	0.0427	1.948	1.996	29.42
27	8163.087 18	11.0345	0.0213	11.1060	0.0496	1.948	1.996	29.42
27	8225.175 81	10.4166	0.0116	10.3981	0.0312	1.957	1.364	27.96
27	8225.190 16	10.4040	0.0087	10.4663	0.0313	1.957	1.364	27.96
27	8225.264 71	10.4001	0.0214	10.3477	0.0064	1.957	1.363	27.95
27	8225.279 05	10.4127	0.0220	10.4038	0.0371	1.957	1.363	27.95
27	8240.654 15	10.0381	0.0164	10.0514	0.0120	1.967	1.227	24.17
27	8240.728 71	10.0843	0.0109	10.0831	0.0450	1.967	1.227	24.15
27	8240.831 92	10.1021	0.0162	10.1302	0.0310	1.967	1.226	24.12
27	8240.920 80	10.1245	0.0089	10.1294	0.0174	1.967	1.225	24.10
27	8364.537 16	10.9914	0.0161	11.0385	0.0503	2.134	1.670	27.21

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>p</sub> <sub>dc</sub> mag 3	σ <sub>H<sub>p</sub><sub>dc</sub></sub> mag 4	H <sub>p</sub> <sub>ac</sub> mag 5	σ <sub>H<sub>p</sub><sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
27	8364.551 52	11.0630	0.0235	11.0619	0.0484	2.134	1.670	27.21
27	8364.626 07	11.0746	0.0097	11.0729	0.0535	2.134	1.671	27.21
27	8364.640 42	11.1516	0.0370	11.2062	0.0467	2.134	1.671	27.21
27	8391.282 41	11.6205	0.0283	11.7470	0.0148	2.183	2.018	27.42
27	8391.296 72	11.5276	0.0274	11.5004	0.0297	2.183	2.018	27.42
27	8391.371 30	11.5879	0.0284	11.6656	0.0648	2.183	2.019	27.41
27	8391.385 62	11.5930	0.0138	11.6166	0.0490	2.183	2.019	27.41
27	8702.780 34	12.0068	0.0516	12.0529	0.0868	2.685	2.401	21.63
27	8702.794 68	11.9202	0.0286	12.0170	0.1072	2.685	2.401	21.63
27	8830.881 82	11.6213	0.0437	11.6598	0.0758	2.746	2.009	17.05
27	8830.896 15	11.6300	0.0353	11.5564	0.0361	2.746	2.009	17.05
27	8830.970 72	11.7120	0.0351	11.6391	0.0249	2.746	2.010	17.07
27	8830.985 03	11.6909	0.0401	11.5879	0.0114	2.746	2.010	17.07
28	8513.321 85	12.0821	0.0157	12.0886	0.0886	2.727	2.167	19.85
28	8513.336 19	12.0297	0.0300	11.8808	0.0370	2.727	2	



N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
29	8663.64283	9.9360	0.0132	9.9931	0.0132	2.436	1.657	17.33
29	8663.65717	9.9465	0.0115	9.9560	0.0277	2.436	1.657	17.33
29	8663.73175	9.9048	0.0156	9.9409	0.0354	2.436	1.657	17.35
29	8663.74606	9.9472	0.0103	9.9537	0.0166	2.436	1.658	17.36
29	8663.82065	8.9902	0.0091	9.8871	0.0277	2.436	1.658	17.38
29	8663.83495	9.8738	0.0120	9.9439	0.0141	2.436	1.658	17.39
29	8670.30915	10.0909	0.0095	10.1777	0.0542	2.440	1.725	19.11
29	8670.32348	10.0925	0.0082	10.1464	0.0239	2.440	1.725	19.11
29	8670.39804	10.0560	0.0145	10.0797	0.0703	2.440	1.726	19.13
29	8670.41236	10.0801	0.0189	10.0940	0.0450	2.440	1.726	19.14
29	8670.50124	10.0676	0.0082	10.1264	0.0205	2.440	1.727	19.16
29	8705.93476	10.7258	0.0330	10.7531	0.0467	2.463	2.163	23.71
29	8705.94906	10.6475	0.0233	10.6965	0.0496	2.463	2.163	23.71
29	8735.52129	11.1057	0.0277	11.1590	0.0584	2.484	2.553	22.90
29	8735.53564	11.1009	0.0357	11.3028	0.0745	2.484	2.553	22.90
29	8755.87187	11.1451	0.0249	11.1445	0.0668	2.498	2.806	20.86
29	8755.88618	11.1359	0.0134	11.1388	0.0316	2.498	2.806	20.86
29	8755.96075	11.3180	0.0441	11.2107	0.0238	2.499	2.807	20.85
29	8755.97506	11.2599	0.0173	11.1798	0.0492	2.499	2.807	20.85
29	9006.60313	11.2986	0.0409	11.4014	0.0819	2.674	2.608	21.49
29	9006.61743	11.3977	0.0693	11.3601	0.1077	2.674	2.608	21.49
29	9006.69202	11.3448	0.0116	11.2571	0.0542	2.674	2.607	21.49
30	7860.23053	11.3163	0.0107	11.3192	0.0313	2.065	1.344	23.30
30	7860.24486	11.3209	0.0155	11.3780	0.0290	2.065	1.344	23.30
30	7876.22756	11.5756	0.0400	11.5324	0.0708	2.067	1.508	26.54
30	7876.24190	11.5981	0.0338	11.6628	0.0460	2.067	1.508	26.54
30	7876.33078	11.7241	0.0552	11.7566	0.1033	2.067	1.509	26.55
30	7906.52356	11.8713	0.0207	11.7517	0.0550	2.075	1.856	28.29
30	7906.53791	12.0230	0.0258	12.1099	0.0606	2.075	1.856	28.29
30	7937.44142	12.1596	0.0153	12.3605	0.0560	2.092	2.219	26.30
30	7937.45575	12.2160	0.0645	12.2803	0.0354	2.092	2.219	26.29
30	7937.53033	12.3058	0.0547	12.3606	0.1089	2.093	2.220	26.29
30	7937.54463	12.3786	0.0391	12.2165	0.0519	2.093	2.220	26.28
30	7955.40752	12.2450	0.0357	12.4403	0.1084	2.106	2.419	24.08
30	8248.82648	12.8356	0.0540	12.6392	0.0493	2.481	2.201	23.30
30	8248.90104	10.4914	0.0253	10.6267	0.0554	2.481	2.200	23.29
30	8285.06122	12.0478	0.0279	12.0627	0.0325	2.524	1.794	17.87
30	8285.07554	11.9745	0.0368	11.9627	0.0743	2.524	1.794	17.87
30	8285.15011	12.1855	0.0384	11.9440	0.0712	2.524	1.794	17.84
30	8285.16443	12.1565	0.0260	12.2506	0.0581	2.524	1.794	17.84
30	8285.50567	11.9916	0.0210	12.0208	0.0414	2.525	1.790	17.75
30	8285.51999	11.8773	0.0209	11.8295	0.0360	2.525	1.790	17.74
30	8285.59456	12.0184	0.0272	11.9067	0.0391	2.525	1.790	17.72
30	8285.60887	11.8651	0.0331	12.1236	0.0923	2.525	1.789	17.72
30	8285.68345	12.1026	0.0308	12.0284	0.0523	2.525	1.789	17.70
30	8285.69777	12.0178	0.0379	12.0492	0.0430	2.525	1.789	17.70
30	8289.06119	11.8931	0.0535	12.0264	0.1215	2.529	1.758	16.72
30	8289.07551	11.8174	0.0408	11.8676	0.1009	2.529	1.758	16.72
30	8289.15008	12.0785	0.0540	11.9764	0.1112	2.529	1.757	16.69
30	8289.16440	12.0893	0.0396	12.1693	0.0964	2.529	1.757	16.69
30	8289.50564	11.8610	0.0494	11.7849	0.0937	2.529	1.754	16.59
30	8289.51995	11.8840	0.0395	11.8784	0.0576	2.529	1.754	16.58
30	8289.59452	11.8516	0.0374	11.7856	0.0379	2.529	1.753	16.56
30	8289.60884	11.8847	0.0279	11.8630	0.0357	2.529	1.753	16.55
30	8289.68341	12.0566	0.0443	11.9783	0.0588	2.529	1.752	16.53
30	8289.69773	12.1299	0.0571	12.1093	0.0671	2.529	1.752	16.53
30	8289.95008	12.0486	0.0957	11.7561	0.1506	2.530	1.750	16.45
30	8289.96440	12.1234	0.0838	12.2337	0.0336	2.530	1.750	16.44
30	8372.26503	12.0327	0.0349	12.0724	0.0792	2.607	1.851	17.28
30	8372.27933	12.1959	0.0610	12.0952	0.0628	2.607	1.851	17.28
30	8372.35394	12.3134	0.0556	12.2357	0.1284	2.607	1.851	17.30
30	8372.36824	12.2123	0.0432	12.3550	0.0934	2.607	1.852	17.30
30	8385.50803	12.5407	0.0322	12.5271	0.1061	2.617	2.004	20.10
30	8385.59693	11.6114	0.1795	11.8974	0.1971	2.617	2.005	20.12
30	8385.61127	12.3036	0.0449	12.4000	0.0811	2.617	2.005	20.12
30	8736.09779	12.0956	0.0408	12.0824	0.0948	2.547	2.006	21.50
30	8736.11213	12.0494	0.0454	12.3221	0.0643	2.547	2.005	21.50
30	8752.28738	11.6202	0.0301	11.6139	0.0327	2.530	1.803	18.75
30	8752.36194	11.7198	0.0231	11.9346	0.0930	2.530	1.803	18.73
30	8752.37623	11.4978	0.0844	11.7420	0.0590	2.530	1.802	18.73
31	7919.69353	11.0621	0.0239	11.0964	0.0404	2.427	1.786	20.72
31	7919.76811	11.1120	0.0281	11.0610	0.0389	2.427	1.786	20.73
31	7935.86749	11.3676	0.0347	11.4295	0.0676	2.430	1.938	22.77
31	7935.95639	11.3751	0.0248	11.3603	0.0290	2.430	1.939	22.77
31	7966.76953	11.7398	0.0419	11.8907	0.0776	2.446	2.270	24.00
31	7966.78384	11.7199	0.0300	11.9653	0.0905	2.446	2.270	24.00
31	7966.85839	11.8153	0.0276	11.7470	0.0676	2.446	2.271	24.00
31	7966.87271	11.7226	0.0228	11.8450	0.0695	2.446	2.271	24.00
31	7996.99162	11.8178	0.0212	12.0568	0.0551	2.470	2.605	22.61
31	7997.06620	12.0439	0.0378	11.9466	0.0238	2.470	2.606	22.60
31	7997.08051	11.9764	0.0310	11.8544	0.0832	2.470	2.606	22.60
31	7997.15509	12.0569	0.0274	12.0623	0.0782	2.471	2.607	22.59
31	7997.16940	12.0241	0.0317	12.0738	0.1041	2.471	2.607	22.59
31	8298.21104	12.2665	0.0366	12.2348	0.0671	3.043	2.537	17.53
37	7883.73026	11.3686	0.0261	11.3739	0.0300	2.345	1.676	20.95
37	7883.74460	11.3918	0.0254	11.5128	0.0316	2.345	1.676	20.95
37	7883.81917	11.4148	0.0214	11.4097	0.0546	2.346	1.675	20.93
37	7893.32954	11.2525	0.0297	11.3067	0.0620	2.361	1.594	18.25
37	7893.52165	11.2717	0.0324	11.2293	0.0681	2.362	1.592	18.19
37	7893.59622	11.2671	0.0215	11.2958	0.0599	2.362	1.592	18.16
37	7893.61054	11.2524	0.0238	11.2100	0.0460	2.362	1.592	18.16
37	7975.64675	11.4135	0.0234	11.5054	0.0068	2.511	1.731	17.14
37	7975.66103	11.4712	0.0266	11.4884	0.0382	2.511	1.731	17.15
37	7975.73561	11.5944	0.0090	11.5396	0.0384	2.512	1.732	17.17
37	7975.74992	11.6512	0.0396	11.6274	0.0600	2.512	1.732	17.17
37	7975.82450	11.6614	0.0366	11.6197	0.0421	2.512	1.733	17.20
37	7975.83880	11.5422	0.0223	11.4257	0.0349	2.512	1.733	17.20

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
37	7975.91340	11.5680	0.0208	11.6296	0.0615	2.512	1.734	17.22
37	7984.72711	11.6549	0.0349	11.6419	0.0648	2.529	1.839	19.33
37	7984.80168	11.7982	0.0173	11.8340	0.0483	2.529	1.840	19.34
37	7984.81601	11.6628	0.0279	11.6649	0.0426	2.529	1.840	19.34
37	7985.06835	11.8794	0.0241	11.8459	0.0439	2.529	1.843	19.40
37	7985.08268	11.8411	0.0214	11.7067	0.0424	2.529	1.843	19.40
37	7985.15723	11.6737	0.0272	11.7326	0.0992	2.530	1.844	19.42
37	7985.17157	11.6898	0.0387	11.5730	0.0437	2.530	1.844	19.42
37	8020.26511	12.3775	0.0474	12.5422	0.1059	2.597	2.331	22.83
37	8020.33967	12.0925	0.0335	12.3870	0.1179	2.597	2.332	22.83
37	8020.35399	12.5968	0.0331	12.3889	0.0741	2.597	2.332	22.83
37	8349.92537	12.5402	0.0552	12.6460	0.1633	3.063	3.216	14.26
37	8349.93970	12.4829	0.0445	12.5394	0.0755	3.063	3.216	14.26
37	8350.01425	12.2692	0.0790	12.3606	0.0893	3.063	3.215	14.24
37	8350.02858	12.2143	0.0462	12.2521	0.0477	3.063	3.215	14.24
37	8350.10314	11.4041	0.0562	12.2639	0.1797	3.063	3.214	14.23
37	8935.62445	12.5909	0.0297	12.4581	0.0865	2.604	2.505	22.35
37	8935.63875	12.5757	0.0553	12.3823				

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
39	8534.067 30	11.0855	0.0229	11.0535	0.0069	2.593	2.390	22.79
39	8534.141 86	10.8961	0.0172	10.9369	0.0264	2.593	2.391	22.79
39	8534.156 19	10.9441	0.0122	10.9248	0.0195	2.593	2.397	22.79
39	8534.497 42	11.1303	0.0253	11.2671	0.0369	2.593	2.395	22.79
39	8534.511 74	11.1439	0.0237	11.1911	0.0207	2.593	2.395	22.79
39	8534.586 31	10.9742	0.0121	10.9514	0.0415	2.593	2.396	22.79
39	8534.600 63	11.0253	0.0169	11.0677	0.0475	2.593	2.396	22.79
39	8534.675 19	11.0556	0.0189	11.0127	0.0414	2.593	2.397	22.79
39	8534.689 51	11.0778	0.0296	11.1087	0.0608	2.593	2.397	22.79
39	8537.210 24	10.9610	0.0099	11.0418	0.0372	2.589	2.427	22.75
39	8537.224 57	10.9183	0.0170	11.2037	0.0528	2.589	2.427	22.75
39	8537.299 13	11.1477	0.0112	11.2016	0.0388	2.589	2.428	22.75
39	8537.313 44	11.0601	0.0177	11.1607	0.0265	2.589	2.429	22.75
39	8569.194 16	11.3771	0.0185	11.3077	0.0336	2.558	2.797	20.78
39	8569.283 04	11.1798	0.0200	11.2419	0.0187	2.558	2.798	20.77
39	8569.297 35	11.2163	0.0167	11.4034	0.0599	2.558	2.799	20.76
39	8585.102 49	11.2519	0.0095	11.2254	0.0429	2.543	2.963	18.80
39	8585.116 82	11.2985	0.0394	11.2300	0.0559	2.543	2.963	18.80
39	8585.191 37	11.3391	0.0067	11.2902	0.0582	2.543	2.964	18.79
39	8585.205 70	11.3257	0.0205	11.3355	0.0881	2.543	2.964	18.79
39	8585.280 25	11.3063	0.0272	11.2906	0.0498	2.543	2.965	18.78
39	8775.725 83	11.3318	0.0074	11.4495	0.0521	2.455	3.010	17.86
39	8775.740 16	11.4344	0.0205	11.5507	0.0714	2.455	3.010	17.86
39	8775.814 74	11.4233	0.0174	11.3845	0.0435	2.455	3.010	17.87
39	8775.829 08	11.4668	0.0204	11.5092	0.0483	2.455	3.010	17.87
39	8775.903 62	11.4082	0.0222	11.4490	0.0552	2.455	3.009	17.89
39	8775.917 96	11.3734	0.0377	11.4053	0.0682	2.455	3.009	17.89
39	8775.992 52	11.5790	0.0170	11.4597	0.0547	2.455	3.008	17.90
39	8776.006 84	11.3776	0.0234	11.3758	0.0459	2.455	3.008	17.90
39	8776.273 50	11.6519	0.0268	11.8369	0.0387	2.455	3.006	17.94
39	8824.813 32	11.3635	0.0272	11.2916	0.0965	2.463	2.502	23.55
39	8824.827 67	11.1957	0.0106	11.2940	0.0556	2.463	2.502	23.56
40	7969.469 98	12.0004	0.0296	12.0161	0.0731	2.254	2.602	22.21
40	7969.484 30	11.8178	0.0202	12.0177	0.0627	2.254	2.602	22.21
40	7969.558 86	12.2214	0.0666	12.1369	0.0822	2.254	2.601	22.23
40	7969.573 19	12.1451	0.0423	12.1560	0.0367	2.254	2.601	22.23
40	7987.258 72	12.1239	0.0841	12.0929	0.2271	2.245	2.402	24.57
40	7987.333 31	12.0602	0.0339	11.9889	0.0660	2.245	2.401	24.58
40	7987.347 63	12.1377	0.0149	12.1104	0.1027	2.244	2.401	24.59
40	7987.422 21	12.0722	0.0511	11.9183	0.0497	2.244	2.400	24.59
40	7987.436 53	12.0462	0.0236	12.1109	0.0697	2.244	2.400	24.59
40	8019.851 25	11.8099	0.0157	11.9155	0.0443	2.228	2.010	26.93
40	8019.865 54	11.8549	0.0661	11.8230	0.0801	2.228	2.010	26.93
40	8052.458 70	11.0440	0.0134	11.1105	0.0480	2.212	1.623	25.20
40	8052.473 04	11.1221	0.0270	11.0958	0.0489	2.212	1.623	25.19
40	8052.547 61	11.2967	0.0173	11.2817	0.0378	2.212	1.622	25.19
40	8052.561 92	11.2431	0.0250	11.3794	0.0794	2.212	1.622	25.18
40	8052.636 50	10.9991	0.0090	10.9636	0.0197	2.212	1.621	25.17
40	8052.650 82	10.9941	0.0281	10.9643	0.0578	2.212	1.621	25.17
40	8069.078 58	10.8405	0.0264	10.7602	0.0453	2.204	1.448	21.90
40	8069.092 92	10.7573	0.0154	10.7910	0.0414	2.204	1.448	21.90
40	8069.167 47	10.6878	0.0246	10.7658	0.0392	2.204	1.447	21.88
40	8069.181 83	10.8185	0.0099	10.8470	0.0330	2.204	1.447	21.87
40	8069.359 58	10.6773	0.0185	10.7347	0.0607	2.204	1.445	21.83
40	8195.543 68	11.1442	0.0186	11.1191	0.0273	2.166	1.728	26.66
40	8195.558 00	11.1536	0.0247	11.1399	0.0282	2.166	1.728	26.66
40	8222.288 18	11.5133	0.0414	11.5074	0.1022	2.163	2.041	26.98
40	8222.302 50	11.4629	0.0155	11.4803	0.0485	2.163	2.041	26.98
40	8244.681 14	11.7802	0.0301	11.8602	0.0691	2.163	2.299	25.26
40	8244.695 44	11.7759	0.0251	11.9071	0.0297	2.163	2.300	25.25
40	8244.770 02	11.6563	0.0354	11.5600	0.0128	2.163	2.300	25.25
40	8244.784 33	11.8362	0.0501	11.7511	0.0762	2.163	2.300	25.25
40	8490.319 90	12.3180	0.0396	12.4641	0.0575	2.238	2.746	20.33
40	8490.483 34	12.1878	0.0436	12.2604	0.0659	2.238	2.745	20.36
40	8490.497 67	11.9148	0.0350	12.2755	0.1134	2.238	2.745	20.36
40	8490.572 22	12.1966	0.0491	11.9985	0.0577	2.238	2.744	20.37
40	8490.586 57	12.1986	0.0451	12.0174	0.0451	2.238	2.744	20.38
40	8490.661 13	12.2852	0.0390	12.2655	0.0738	2.238	2.744	20.39
40	8490.675 44	12.4394	0.0870	12.3352	0.1308	2.238	2.743	20.39
40	8490.764 34	12.2355	0.0475	12.3514	0.0922	2.238	2.743	20.40
40	8501.415 99	12.3268	0.0468	12.2132	0.1023	2.243	2.646	21.93
40	8501.430 29	11.8993	0.0427	11.9814	0.0740	2.243	2.646	21.93
40	8501.504 84	12.3675	0.0794	12.3147	0.1265	2.243	2.645	21.94
40	8501.593 76	11.3934	0.0541	11.6133	0.0766	2.243	2.644	21.95
40	8501.682 65	12.2157	0.0573	12.0819	0.0412	2.244	2.643	21.97
40	8501.696 98	12.0472	0.0587	12.1029	0.0947	2.244	2.643	21.97
40	8501.771 56	12.2834	0.0446	12.0800	0.0469	2.244	2.643	21.98
40	8501.785 85	12.3235	0.0282	12.3792	0.1173	2.244	2.642	21.98
40	8539.028 73	11.9421	0.0223	12.0723	0.0671	2.263	2.428	25.66
40	8539.043 07	11.8236	0.0235	11.7589	0.0382	2.263	2.248	25.66
40	8539.117 61	12.0953	0.0395	12.0099	0.0705	2.263	2.247	25.66
40	8539.131 95	12.1149	0.0278	12.1159	0.0549	2.263	2.247	25.66
40	8708.598 50	11.6691	0.0193	11.5922	0.0485	2.342	1.818	23.68
40	8708.612 81	11.7266	0.0450	11.7532	0.0512	2.342	1.818	23.68
40	8732.945 57	11.9528	0.0291	11.8479	0.0382	2.350	1.122	25.23
40	8732.959 89	11.8536	0.0239	11.9244	0.0524	2.350	1.123	25.23
40	8733.034 48	11.8565	0.0343	11.8310	0.0621	2.350	1.124	25.23
40	8733.048 78	11.8403	0.0172	11.7999	0.0616	2.350	1.124	25.23
40	8758.639 58	12.0478	0.0611	12.1658	0.0842	2.357	2.442	24.15
40	8758.714 14	12.3121	0.0122	12.2161	0.0925	2.357	2.443	24.14
40	8758.728 49	12.0552	0.0334	12.3113	0.1336	2.357	2.443	24.14
40	8758.803 05	11.9723	0.0358	12.0137	0.1067	2.357	2.444	24.13
40	8800.827 33	12.3388	0.0541	12.3297	0.1150	2.365	2.900	18.91
40	8800.916 26	12.3550	0.0446	12.4244	0.0532	2.365	2.901	18.90
40	8800.930 54	12.4192	0.0251	12.2852	0.0786	2.365	2.902	18.90
40	8801.019 48	12.3707	0.0571	12.3020	0.0968	2.365	2.902	18.88
40	8801.094 03	12.3504	0.0433	12.3075	0.0557	2.365	2.903	18.87
40	8801.108 34	12.2896	0.0290	12.4032	0.0719	2.365	2.903	18.87
40	8801.182 92	12.5024	0.0232	12.3716	0.0617	2.365	2.904	18.86

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
40	8801.197 25	12.4368	0.0175	12.3347	0.0885	2.365	2.904	18.86
40	8801.271 81	12.3983	0.0792	12.3006	0.1059	2.365	2.905	18.84
40	8801.286 11	12.1885	0.0550	12.2567	0.0681	2.365	2.905	18.84
40	8801.375 01	12.3499	0.0417	12.3340	0.0676	2.365	2.906	18.83
40	8801.538 48	12.2224	0.0801	12.4095	0.1092	2.365	2.907	18.80
40	8801.552 78	12.2669	0.0336	12.3203	0.0569	2.365	2.907	18.80
40	8801.627 37	12.4231	0.0344	12.5059	0.0693	2.365	2.908	18.79
40	8801.641 69	12.2554	0.0205	12.4599	0.0940	2.365	2.908	18.79
40	8801.716 28	12.3146	0.0707	12.6148	0.0630	2.365	2.909	18.77
40	8801.894 04	12.2739	0.0675	12.3247	0.0698	2.365	2.910	18.74
40	8801.908 38	12.2289	0.0281	12.1361	0.0957	2.365	2.911	18.74
40	8801.982 93	12.4981	0.0586	12.3427	0.0886	2.366	2.911	18.73
40	8801.997 28	12.2963	0.0442	12.4059	0.0553	2.366	2.911	18.73
40	8802.071 81	12.4003	0.0574	12.3992	0.0716	2.366	2.912	18.72
40	8802.086 1							

N	Date	Magnitude		Additional				
	Epoch JD[TT] 2	HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
44	8486.943 72	11.4479	0.0404	11.4378	0.0508	2.164	2.518	23.47
44	8487.018 26	11.7255	0.0258	11.6689	0.0711	2.164	2.517	23.48
44	8487.032 59	11.6984	0.0504	11.7424	0.0911	2.164	2.517	23.48
44	8487.107 15	11.5033	0.0270	11.4178	0.0619	2.164	2.516	23.49
44	8487.121 47	11.5790	0.0353	11.6475	0.0436	2.164	2.516	23.49
44	8487.196 04	11.4773	0.0306	11.4814	0.0828	2.164	2.515	23.50
44	8487.210 36	11.4162	0.0475	11.4957	0.0324	2.164	2.515	23.50
44	8504.526 40	11.5503	0.0521	11.6225	0.0803	2.143	2.321	25.75
44	8504.540 69	11.4753	0.0265	11.4353	0.0520	2.143	2.321	25.75
44	8504.615 27	11.2492	0.0215	11.1044	0.0479	2.143	2.320	25.76
44	8567.817 15	10.4334	0.0106	10.4358	0.0322	2.083	1.572	27.26
44	8567.831 48	10.5364	0.0161	10.5378	0.0157	2.083	1.572	27.26
44	8586.035 35	10.1294	0.0269	10.0972	0.0476	2.073	1.376	24.06
44	8586.049 67	10.1260	0.0171	10.1672	0.0458	2.073	1.376	24.06
44	8586.124 22	10.0197	0.0149	10.0619	0.0372	2.073	1.376	24.04
44	8586.138 52	10.0316	0.0286	10.0688	0.0287	2.073	1.375	24.03
44	8586.213 10	10.0384	0.0220	9.9961	0.0494	2.073	1.375	24.01
44	8586.227 42	9.9678	0.0096	10.0908	0.0505	2.073	1.375	24.01
44	8707.620 49	10.4078	0.0085	10.3945	0.0566	2.088	1.558	27.01
44	8707.634 80	10.4494	0.0123	10.4657	0.0298	2.088	1.558	27.01
44	8707.709 37	10.4016	0.0084	10.2897	0.0540	2.088	1.559	27.02
44	8707.723 70	10.3060	0.0229	10.3455	0.0380	2.088	1.560	27.02
44	8732.767 33	10.8110	0.0170	10.7943	0.0485	2.109	1.853	28.34
44	8732.781 64	10.8278	0.0448	10.8567	0.0938	2.109	1.853	28.34
44	8758.638 93	11.4119	0.0208	11.3969	0.0621	2.136	2.163	27.09
44	8758.713 49	11.1675	0.0066	11.1737	0.0520	2.136	2.164	27.08
44	8758.727 84	11.1070	0.0507	11.1597	0.0580	2.136	2.164	27.08
44	8758.802 40	11.4566	0.0255	11.6575	0.0807	2.137	2.165	27.07
44	8797.982 85	11.9086	0.0361	11.8680	0.0305	2.186	2.608	22.24
44	8797.997 16	11.7667	0.0335	11.5939	0.0922	2.186	2.608	22.24
44	8798.071 72	11.4856	0.0410	11.4253	0.0850	2.186	2.609	22.23
44	8798.086 06	11.5872	0.0383	11.7433	0.0643	2.186	2.609	22.23
44	8798.160 62	11.7785	0.0287	11.8046	0.0794	2.187	2.610	22.22
44	8798.174 96	11.6276	0.0457	11.6910	0.0640	2.187	2.610	22.22
44	8798.249 50	11.8092	0.0520	11.9122	0.1043	2.187	2.611	22.21
44	8798.263 82	10.9269	0.0500	11.0765	0.0721	2.187	2.611	22.20
44	8808.648 96	11.5921	0.0171	11.6685	0.0867	2.201	2.718	20.54
44	8808.663 28	11.7268	0.0253	11.7680	0.1115	2.201	2.718	20.54
44	8808.737 84	11.8591	0.0211	11.7247	0.0947	2.201	2.719	20.53
44	8808.752 19	11.6437	0.0194	11.6149	0.0705	2.201	2.719	20.53
44	8808.826 73	11.9714	0.0320	11.9053	0.0703	2.202	2.720	20.52
44	8808.841 03	11.8667	0.0320	11.8444	0.0246	2.202	2.720	20.51
51	8050.070 61	12.1824	0.0351	12.0531	0.0532	2.447	1.916	23.03
51	8050.248 38	11.9966	0.0271	12.0891	0.0710	2.448	1.915	23.01
51	8066.942 14	11.6907	0.0453	11.9533	0.0526	2.457	1.740	20.05
51	8066.956 49	11.7408	0.0256	11.6720	0.0619	2.457	1.740	20.04
51	8067.119 92	11.6385	0.0390	11.7216	0.0552	2.458	1.738	20.01
51	8067.134 26	11.7115	0.0229	11.9040	0.0391	2.458	1.738	20.00
51	8067.208 81	11.8014	0.0274	11.8355	0.0608	2.458	1.738	19.99
51	8067.223 15	11.6711	0.0318	11.5749	0.0462	2.458	1.737	19.98
51	8652.010 05	11.8088	0.0246	11.8100	0.0574	2.347	1.688	21.23
51	8652.084 63	11.7865	0.0297	11.8056	0.0536	2.347	1.689	21.22
51	8652.098 95	11.7601	0.0486	11.6141	0.0794	2.347	1.689	21.24
51	8652.173 51	11.6923	0.0497	11.6207	0.0969	2.347	1.690	21.26
51	8652.187 84	11.8083	0.0098	11.8331	0.0848	2.347	1.690	21.26
51	9033.502 09	12.2432	0.0446	12.2976	0.0351	2.222	1.934	26.37
63	8279.389 34	11.8149	0.0153	11.7779	0.0510	2.398	1.969	23.53
63	8279.463 88	12.4977	0.0428	12.5789	0.1001	2.397	1.968	23.52
63	8279.478 23	12.4748	0.0573	12.4884	0.0266	2.397	1.968	23.52
63	8279.567 12	11.7553	0.0288	11.7859	0.0116	2.397	1.967	23.52
63	8298.570 60	11.5086	0.0217	11.4635	0.0362	2.371	1.715	21.06
63	8298.584 96	11.5538	0.0237	11.4983	0.0503	2.371	1.715	21.06
63	8422.021 96	12.3262	0.0358	12.3666	0.0541	2.205	1.689	26.13
63	8789.588 14	12.1184	0.0101	12.0696	0.0544	2.239	2.163	26.52
63	8789.602 44	11.9479	0.0265	11.9044	0.0625	2.239	2.163	26.52
63	8945.302 40	11.5844	0.0235	11.5753	0.0191	2.455	1.755	19.53
63	8945.316 72	11.5782	0.0189	11.5189	0.0576	2.455	1.755	19.54
63	8945.391 30	11.9664	0.0322	11.8791	0.0429	2.455	1.756	19.55
88	7960.782 03	11.7297	0.0234	11.8946	0.0454	2.656	2.287	21.58
88	7960.856 57	11.8771	0.0473	12.2419	0.1047	2.656	2.286	21.57
88	7960.870 93	12.2370	0.0265	12.1565	0.0400	2.656	2.285	21.57
88	8087.588 00	11.4565	0.0206	11.5441	0.0814	2.454	1.704	19.33
88	8087.602 30	11.2713	0.0319	11.3090	0.0632	2.454	1.704	19.33
88	8087.676 90	11.3362	0.0292	11.3556	0.0464	2.454	1.705	19.35
88	8087.691 19	11.3111	0.0285	11.3022	0.0273	2.454	1.705	19.36
88	8087.765 79	11.2556	0.0296	11.4188	0.0687	2.453	1.706	19.38
88	8087.780 07	11.3395	0.0414	11.2501	0.0479	2.453	1.706	19.38
88	8103.585 87	11.4717	0.0514	11.4963	0.0575	2.432	1.853	22.65
88	8103.600 18	11.5869	0.0311	11.6664	0.0403	2.432	1.853	22.65
88	8103.674 74	11.6507	0.0401	11.6157	0.0590	2.432	1.854	22.66
88	8103.689 07	11.6811	0.0283	11.6667	0.0741	2.432	1.854	22.66
88	8103.763 62	11.6025	0.0227	11.7046	0.0660	2.432	1.855	22.68
88	8103.777 96	11.6882	0.0439	11.6099	0.0487	2.432	1.855	22.68
88	8169.245 06	12.3637	0.0459	12.4802	0.1152	2.360	2.560	23.01
88	8169.259 37	12.3905	0.0536	12.4241	0.0233	2.360	2.560	23.01
88	8169.333 95	12.0866	0.0460	12.3981	0.1801	2.360	2.561	23.01
88	8169.348 26	12.3348	0.0421	12.2751	0.0907	2.360	2.561	23.01
88	8186.219 96	12.3185	0.0462	12.2201	0.0748	2.347	2.728	20.96
88	8186.234 26	12.3271	0.0634	12.5184	0.1281	2.347	2.728	20.96
88	8186.308 84	12.1930	0.0339	12.3334	0.1129	2.347	2.729	20.95
88	8186.323 16	12.2313	0.0469	12.4946	0.0703	2.347	2.729	20.95
88	8186.397 74	12.5106	0.0409	12.1934	0.0532	2.346	2.730	20.94
88	8424.198 53	12.3819	0.0461	12.5714	0.1136	2.415	2.645	22.53
88	8424.212 86	12.4360	0.0517	12.4458	0.0922	2.415	2.645	22.53
88	8475.469 24	12.0557	0.0445	12.0543	0.0811	2.484	2.106	23.75
88	8475.483 54	11.9783	0.0444	12.1597	0.0559	2.484	2.105	23.75
88	8475.558 11	12.0787	0.0257	12.1046	0.0634	2.484	2.105	23.74

N	Date	Magnitude		Additional				
	Epoch JD[TT] 2	HP <sub>pac</sub> mag 3	σ <sub>HP<sub>pac</sub></sub> mag 4	HP <sub>pac</sub> mag 5	σ <sub>HP<sub>pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
88	8475.572 43	12.0849	0.0555	11.9776	0.0755	2.484	2.104	23.74
88	8475.647 00	12.0783	0.0324	11.9519	0.0840	2.485	2.104	23.73
88	8602.423 26	11.8724	0.0237	11.8111	0.0679	2.693	2.007	17.59
88	8602.437 57	11.9012	0.0376	11.9149	0.0740	2.693	2.007	17.59
88	8618.153 49	12.2968	0.0472	12.2614	0.1281	2.720	2.223	19.94
88	8618.167 84	12.0058	0.0431	12.2184	0.0555	2.720	2.224	19.94
88	8618.331 28	12.2810	0.0387	12.2114	0.0875	2.720	2.226	19.96
115	7915.230 49	11.0402	0.0217	11.0751	0.0463	2.007	1.339	25.51
115	7915.244 80	10.9834	0.0589	11.0080	0.0818	2.007	1.339	25.51
115	7933.181 14	11.3845	0.0161	11.4899	0.0580	2.035	1.544	27.97
115	7933.195 46	11.3067	0.0374	11.2403	0.0701	2.035	1.544	27.97
115	7933.284 35	11.5516	0.0229	11.4889	0.0442	2.036	1.546	27.97
115	7962.322 06	11.7475	0.0115	11.0615	0.0739	2.087	1.913	28.35
115	7962.336 39	11.9194	0.0384	11.9419	0.0704	2.087	1.913	28.35
115	7994.408 65	12.4648	0.0338	12.2913	0.1035	2.150	2.328	25.49
115	7994.483 23	12.4215	0.0227	12.3441	0.0850	2.151	2.329	25.48
11								

N	Date	Magnitude		Additional				
	Epoch JD[TT] 2	H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
192	8739.66830	11.6771	0.0447	11.7357	0.0890	2.546	1.875	19.65
192	8739.84607	11.8303	0.0702	11.9657	0.0477	2.546	1.873	19.62
192	8833.02141	10.9041	0.0287	10.9973	0.0504	2.294	1.480	18.89
192	8833.09597	10.9398	0.0371	11.0387	0.0731	2.293	1.480	18.92
192	8833.11031	11.0361	0.0302	10.9228	0.0459	2.293	1.481	18.92
192	8833.18486	11.0596	0.0414	11.1114	0.0487	2.293	1.481	18.95
192	8833.19917	11.1012	0.0238	10.9301	0.0501	2.293	1.481	18.95
192	8833.27376	10.9324	0.0247	10.9562	0.0825	2.293	1.481	18.98
192	8833.28810	10.9355	0.0413	10.8993	0.0365	2.293	1.481	18.99
192	8833.45078	11.0751	0.0408	11.0693	0.0482	2.292	1.483	19.04
192	8833.46513	11.1165	0.0284	11.1782	0.0396	2.292	1.483	19.04
192	8833.53966	11.0045	0.0345	11.0123	0.0526	2.292	1.483	19.07
192	8833.55398	11.0196	0.0383	11.1128	0.0396	2.292	1.483	19.07
192	8833.62856	11.0174	0.0475	10.9764	0.0704	2.292	1.484	19.10
192	8833.64288	10.9971	0.0163	10.9431	0.0601	2.292	1.484	19.10
196	7992.57311	11.9318	0.0308	12.1097	0.0980	3.041	2.660	18.76
196	7992.58744	11.9435	0.0362	12.0069	0.0642	3.041	2.660	18.76
196	7992.66199	11.8804	0.0355	12.1339	0.0874	3.041	2.659	18.76
196	8012.56858	11.5822	0.0261	11.6554	0.0698	3.038	2.399	16.59
196	8139.21199	11.8500	0.0368	11.7886	0.0278	3.029	2.586	18.63
196	8139.22634	11.8874	0.0507	11.9591	0.0960	3.029	2.586	18.63
196	8139.30087	11.7873	0.0391	11.8455	0.0672	3.029	2.587	18.64
196	8139.31523	11.7854	0.0411	12.0197	0.0966	3.029	2.587	18.64
196	8165.77977	11.7867	0.0267	12.2436	0.0881	3.029	2.948	19.24
196	8593.98049	12.5487	0.0392	12.5137	0.0201	3.103	2.722	18.07
196	8593.99482	12.5351	0.0283	12.5464	0.0693	3.103	2.722	18.07
196	8594.06937	12.1736	0.0442	12.0422	0.0386	3.103	2.723	18.08
196	8594.08373	12.0061	0.0190	12.2288	0.0904	3.103	2.724	18.08
196	8594.15825	12.4982	0.0404	12.4896	0.0747	3.103	2.725	18.08
216	7895.42107	12.2220	0.0370	12.2684	0.0210	2.230	2.763	19.18
216	7895.43541	12.5895	0.0379	12.7868	0.1147	2.230	2.763	19.18
216	7895.50996	11.9540	0.0483	12.0819	0.1045	2.230	2.763	19.17
216	7895.52429	12.0350	0.0291	12.1108	0.0700	2.230	2.763	19.17
216	8165.31050	11.5434	0.0313	11.5041	0.0628	2.247	2.215	25.94
216	8311.30867	11.4571	0.0082	11.4654	0.1132	2.601	1.861	17.14
216	8311.32299	11.8189	0.0533	11.7133	0.1279	2.601	1.861	17.14
216	8311.39754	11.4406	0.0441	11.4735	0.0329	2.601	1.862	17.16
216	8311.41187	11.4657	0.0385	11.4719	0.0734	2.601	1.862	17.16
216	8311.48644	11.4048	0.0322	11.3203	0.0386	2.601	1.863	17.17
216	8311.50076	11.3725	0.0222	11.2886	0.0700	2.601	1.863	17.18
216	8326.16592	11.8905	0.0394	11.9348	0.1028	2.640	2.051	19.74
216	8326.34372	11.8331	0.0147	11.9016	0.0607	2.641	2.053	19.76
216	8326.41827	11.7532	0.0423	12.0328	0.0620	2.641	2.055	19.77
216	8326.43262	11.5971	0.0326	11.6998	0.0794	2.641	2.054	19.77
216	8326.50717	11.8684	0.0283	11.7179	0.0413	2.641	2.056	19.78
216	8358.86285	12.3213	0.0307	12.1197	0.0485	2.726	2.533	21.52
216	8358.93741	12.4929	0.0171	12.2481	0.0776	2.727	2.534	21.52
216	8358.95175	12.4293	0.0426	12.2550	0.0420	2.727	2.534	21.52
216	8359.02629	12.8036	0.0459	12.6085	0.0732	2.727	2.535	21.52
216	8359.04062	12.6704	0.0606	12.8642	0.0923	2.727	2.535	21.52
230	7908.38742	11.8301	0.0378	11.7415	0.0446	2.272	1.879	25.23
230	7935.30888	12.0588	0.0240	12.1059	0.0541	2.285	2.226	25.26
230	7935.32319	12.0255	0.0213	12.0165	0.0510	2.285	2.226	25.26
230	7956.72453	12.1349	0.0256	12.2935	0.0462	2.297	2.493	23.46
230	7956.73885	12.2528	0.0180	12.3162	0.0403	2.297	2.494	23.46
230	8250.51688	12.3964	0.0314	12.2688	0.0445	2.481	2.196	23.29
230	8250.59145	12.4385	0.0660	12.4653	0.0889	2.481	2.195	23.28
230	8250.60576	12.4311	0.0632	12.3994	0.0655	2.481	2.195	23.28
230	8250.68033	12.0585	0.0284	12.2256	0.0915	2.481	2.194	23.28
230	8286.39736	11.5442	0.0083	11.5672	0.0647	2.496	1.781	18.46
230	8286.41167	11.5176	0.0233	11.5683	0.0498	2.496	1.781	18.46
230	8286.57515	11.7172	0.0320	11.8441	0.0515	2.496	1.779	18.42
230	8286.58944	11.7227	0.0275	11.7921	0.0261	2.496	1.779	18.42
230	8286.64183	11.6053	0.0143	11.5578	0.0446	2.497	1.776	18.35
230	8286.65613	11.5536	0.0166	11.5433	0.0662	2.497	1.776	18.35
230	8286.93070	11.5558	0.0317	11.5195	0.0453	2.497	1.776	18.33
230	8286.94502	11.5886	0.0475	11.7012	0.0889	2.497	1.775	18.32
230	8287.01959	11.6321	0.0064	11.5754	0.0804	2.497	1.775	18.31
230	8292.61956	11.5594	0.0287	11.4850	0.0428	2.499	1.722	16.81
230	8292.63384	11.5200	0.0238	11.4211	0.0322	2.499	1.722	16.80
230	8292.70844	11.4782	0.0265	11.3849	0.0375	2.499	1.721	16.78
230	8292.72275	11.5044	0.0396	11.5364	0.0732	2.499	1.721	16.78
230	8292.79732	11.4970	0.0171	11.5555	0.0494	2.499	1.721	16.76
230	8293.07832	11.5054	0.0333	11.4147	0.0223	2.499	1.718	16.68
230	8371.37390	11.3373	0.0339	11.5020	0.0789	2.521	1.742	17.36
230	8371.38823	11.5695	0.0187	11.5805	0.0543	2.521	1.742	17.36
230	8371.46280	11.6903	0.0268	11.7394	0.0605	2.521	1.743	17.38
230	8371.47710	11.6811	0.0181	11.6099	0.0495	2.521	1.743	17.39
230	8383.37322	11.8167	0.0437	11.7233	0.0613	2.523	1.863	20.19
230	8383.38757	11.7768	0.0279	11.7821	0.0575	2.523	1.863	20.19
230	8383.72879	11.7402	0.0394	11.8130	0.0854	2.523	1.867	20.26
230	8383.74312	11.8077	0.0247	11.8377	0.0720	2.523	1.867	20.26
230	8935.89517	12.1640	0.0599	12.1650	0.1362	2.285	2.326	24.89
230	8935.90950	12.1819	0.0387	11.9645	0.0798	2.285	2.327	24.89
230	8935.98405	12.2090	0.0389	12.2303	0.0312	2.285	2.327	24.88
324	8320.70586	12.2495	0.0427	12.3874	0.0977	2.401	2.970	17.46
324	8320.79477	12.1734	0.0147	12.1578	0.0594	2.401	2.969	17.48
324	8320.86928	12.1009	0.0619	12.5821	0.1188	2.401	2.968	17.50
324	8320.88364	12.3791	0.0224	12.2972	0.0516	2.401	2.968	17.50
324	8321.04707	12.1326	0.0452	12.1359	0.0379	2.400	2.966	17.53
324	8321.06142	12.2206	0.0372	12.3584	0.1434	2.400	2.965	17.53
324	8321.13598	11.7367	0.0350	12.0545	0.0763	2.400	2.964	17.55
324	8321.15031	12.2255	0.0502	12.3424	0.0627	2.400	2.964	17.55
324	8321.40262	12.2744	0.0307	12.1547	0.0612	2.399	2.961	17.60
324	8321.41698	12.3009	0.0210	12.4667	0.0558	2.399	2.961	17.60
324	8321.49152	12.3902	0.0684	12.3996	0.0928	2.398	2.960	17.62
324	8321.50587	12.2602	0.0262	12.2359	0.0850	2.398	2.960	17.62
324	8321.58042	12.2068	0.0265	12.2776	0.0486	2.398	2.959	17.63
324	8321.66929	12.1792	0.0261	12.3406	0.0654	2.398	2.958	17.65
324	8321.68366	12.1602	0.0341	12.2296	0.0153	2.397	2.958	17.65
324	8321.75817	12.1915	0.0156	12.3595	0.0520	2.397	2.957	17.67
324	8321.77255	12.1069	0.0344	12.2574	0.1232	2.397	2.957	17.67
324	8321.93598	12.2685	0.0261	12.2890	0.0817	2.397	2.954	17.70
324	8322.02485	12.2954	0.0365	12.2754	0.0798	2.396	2.953	17.72
324	8324.24709	12.0188	0.0441	12.2243	0.0854	2.388	2.925	18.14
324	8324.33599	12.2801	0.0321	12.1428	0.0103	2.387	2.924	18.15
324	8324.42490	12.1249	0.0283	12.2039	0.0640	2.387	2.923	18.17
324	8324.43922	12.2426	0.0282	12.1614	0.0908	2.387	2.923	18.18
324	8324.52813	12.2618	0.0428	12.3008	0.1019	2.387	2.921	18.20
324	8324.60268	12.3757	0.0468	12.1935	0.0781	2.386	2.920	18.21
324	8324.61700	12.2949	0.0579	12.4251	0.1062	2.386	2.920	18.21
324	8324.69156	12.3314	0.0400	12.1827	0.0379	2.386	2.919	18.22
324	8324.70590	12.3347	0.0654	12.1291	0.0705	2.386	2.919	18.22
324	8324.78045	12.2019	0.0300	12.1429	0.0933	2.386	2.918	18.24
324	8324.79479	12.1778	0.0500	12.1325	0.0948	2.386	2.918	18.24
324	8324.86934	12.3538	0.0357	12.313				

N	Date	Magnitude		Additional				
	Epoch JD[TT] 2	H <sub>Pac</sub> mag 3	σ <sub>H<sub>Pac</sub></sub> mag 4	H <sub>Pac</sub> mag 5	σ <sub>H<sub>Pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
349	8 175.908 82	11.9605	0.0087	12.2442	0.1059	3.023	3.606	14.11
349	8 175.923 16	11.9628	0.0197	11.9953	0.0284	3.023	3.607	14.11
349	8 175.997 72	12.0670	0.0262	12.0700	0.0880	3.023	3.607	14.10
349	8 176.012 05	12.0629	0.0560	12.1615	0.0972	3.023	3.607	14.09
349	8 176.086 61	11.9374	0.0483	12.0093	0.0857	3.023	3.608	14.08
349	8 176.100 94	12.1081	0.0230	12.1345	0.0707	3.023	3.608	14.08
349	8 176.175 50	11.7723	0.0223	11.8024	0.0544	3.023	3.609	14.07
349	8 176.189 85	12.1271	0.0434	12.0936	0.0456	3.023	3.609	14.07
349	8 176.353 28	11.6355	0.0395	11.8206	0.0626	3.022	3.610	14.04
349	8 176.367 61	11.7690	0.0187	11.9349	0.0532	3.022	3.611	14.04
349	8 176.442 16	11.9857	0.0614	12.0157	0.0763	3.022	3.611	14.03
349	8 176.456 51	11.8279	0.0227	12.0134	0.0699	3.022	3.611	14.03
349	8 176.531 06	11.7043	0.0695	11.7682	0.1344	3.022	3.612	14.02
349	8 176.545 39	11.7680	0.0355	11.9432	0.0889	3.022	3.612	14.01
349	8 176.634 29	12.1937	0.0320	12.1743	0.0671	3.022	3.613	14.00
349	8 176.797 73	11.9964	0.0291	12.1409	0.1184	3.022	3.615	13.97
349	8 176.812 06	12.0423	0.0233	12.4223	0.0817	3.022	3.615	13.97
349	8 176.886 61	12.0923	0.0442	12.1149	0.1189	3.022	3.615	13.96
349	8 176.975 51	11.9403	0.0283	12.0856	0.0794	3.022	3.616	13.95
349	8 176.989 84	12.1439	0.0457	12.3700	0.0814	3.022	3.616	13.95
349	8 177.064 40	11.7533	0.0463	11.9130	0.0885	3.022	3.617	13.94
349	8 177.242 17	11.8625	0.0322	12.0099	0.0597	3.022	3.619	13.91
349	8 177.256 51	11.8420	0.0279	11.9725	0.1085	3.022	3.619	13.91
349	8 177.331 07	11.7837	0.0377	11.9042	0.0489	3.022	3.619	13.90
349	8 177.345 40	11.9349	0.0245	11.9817	0.0896	3.022	3.620	13.89
349	8 366.448 56	11.5444	0.0802	11.2603	0.0167	2.855	2.980	19.63
349	8 366.462 86	11.4937	0.0200	11.5988	0.0451	2.855	2.979	19.63
349	8 366.537 44	11.5282	0.0122	11.5059	0.0475	2.855	2.979	19.64
349	8 366.551 76	11.6025	0.0374	11.5559	0.0671	2.855	2.978	19.64
349	8 391.773 27	11.3276	0.0279	11.2964	0.0755	2.833	2.629	20.86
349	8 391.787 60	11.3198	0.0124	11.2272	0.0455	2.833	2.629	20.86
349	8 391.862 17	11.1447	0.0297	11.0707	0.0251	2.832	2.628	20.86
349	8 391.876 50	11.2011	0.0143	11.2263	0.0158	2.832	2.628	20.86
349	8 417.290 86	10.7651	0.0134	10.8793	0.0313	2.811	2.283	19.67
349	8 417.365 47	10.9090	0.0202	10.8565	0.0336	2.811	2.282	19.66
349	8 417.379 78	10.9164	0.0102	10.8870	0.0259	2.811	2.282	19.66
349	8 540.860 69	10.7009	0.0272	10.7088	0.0393	2.720	2.107	19.03
349	8 540.935 24	10.5500	0.0199	10.5099	0.0294	2.720	2.108	19.04
349	8 562.529 67	10.2793	0.0181	10.4695	0.0488	2.708	2.366	21.29
349	8 562.618 53	10.9749	0.0225	10.9817	0.0268	2.708	2.367	21.29
349	8 562.632 85	10.9681	0.0224	10.9150	0.0350	2.708	2.367	21.29
349	8 589.541 14	11.1378	0.0240	11.2217	0.0636	2.695	2.710	21.20
349	8 626.410 80	11.4301	0.0266	11.4740	0.0746	2.680	3.143	17.24
349	8 626.425 14	11.3745	0.0300	11.3695	0.0382	2.680	3.143	17.24
349	8 626.499 71	11.4499	0.0234	11.3891	0.0387	2.680	3.144	17.23
349	8 626.514 05	11.4380	0.0236	11.4595	0.0621	2.680	3.144	17.23
349	8 626.588 59	11.3152	0.0136	11.2305	0.0250	2.680	3.145	17.22
349	8 626.766 38	11.2820	0.0253	11.4219	0.0905	2.680	3.146	17.19
349	8 626.780 73	11.3678	0.0236	11.4135	0.0591	2.680	3.146	17.19
349	8 626.855 27	11.3662	0.0194	11.3906	0.0346	2.680	3.147	17.18
349	8 634.410 66	11.3221	0.0278	11.5403	0.1067	2.678	3.224	16.04
349	8 634.424 99	11.3992	0.0197	11.3940	0.0510	2.678	3.224	16.04
349	8 634.499 55	11.4133	0.0348	11.4371	0.0696	2.678	3.225	16.03
349	8 634.513 86	11.3658	0.0151	11.4690	0.0468	2.678	3.225	16.03
349	8 634.588 45	11.2014	0.0221	11.3098	0.0713	2.678	3.226	16.01
354	7 899.516 67	11.9979	0.0401	12.1601	0.0672	2.980	3.179	18.01
354	8 094.035 93	12.0491	0.0308	12.0853	0.0739	2.766	3.326	16.06
354	8 094.050 29	12.0961	0.0266	12.2257	0.0587	2.766	3.326	16.06
354	8 094.213 70	11.9996	0.0344	12.0321	0.0608	2.766	3.325	16.08
354	8 094.228 04	11.9085	0.0173	12.3549	0.1018	2.766	3.324	16.08
354	8 094.480 38	11.9892	0.0316	11.9546	0.0451	2.765	3.322	16.12
354	8 094.494 74	11.9457	0.0299	11.9738	0.0619	2.765	3.322	16.13
354	8 142.816 23	11.8724	0.0198	11.8721	0.0424	2.707	2.742	21.31
354	8 169.029 03	11.9330	0.0551	11.9114	0.1391	2.676	2.390	21.87
354	8 169.043 36	11.5828	0.0246	11.7077	0.0786	2.676	2.390	21.87
354	8 192.932 93	11.1502	0.0324	11.2434	0.0617	2.649	2.082	20.05
354	8 193.021 82	11.1967	0.0264	11.4178	0.0558	2.648	2.081	20.04
354	8 193.036 18	10.9610	0.0252	11.1485	0.0336	2.648	2.081	20.04
354	8 307.312 79	11.0698	0.0205	11.2574	0.0769	2.535	1.969	20.87
354	8 307.327 12	11.0738	0.0423	11.1330	0.0808	2.535	1.969	20.87
354	8 307.401 67	10.9678	0.0184	10.9320	0.0287	2.535	1.970	20.88
354	8 307.416 01	11.0627	0.0189	11.2142	0.0990	2.535	1.970	20.88
354	8 307.490 56	11.0566	0.0412	11.1132	0.0672	2.535	1.971	20.90
354	8 331.039 32	11.4221	0.0503	11.4236	0.0850	2.518	2.239	23.16
354	8 331.053 64	11.1547	0.0252	11.0867	0.0397	2.518	2.239	23.16
354	8 357.252 45	11.3554	0.0136	11.2715	0.0523	2.501	2.553	22.79
354	8 357.266 75	11.4381	0.0278	11.4285	0.0413	2.501	2.553	22.79
354	8 398.224 96	11.6520	0.0444	11.8246	0.1222	2.481	2.995	18.36
354	8 398.313 88	11.5472	0.0215	11.7259	0.0968	2.481	2.996	18.34
354	8 398.388 43	11.6559	0.0172	11.6928	0.0426	2.481	2.997	18.33
354	8 398.402 75	11.7058	0.0352	11.8355	0.0126	2.481	2.997	18.33
354	8 398.477 32	11.5960	0.0361	11.6600	0.0367	2.481	2.997	18.32
354	8 398.491 65	11.6471	0.0330	11.6063	0.0593	2.481	2.997	18.32
354	8 398.655 10	11.6058	0.0520	11.6394	0.0415	2.481	2.999	18.29
354	8 398.669 43	11.6595	0.0370	11.6831	0.1003	2.481	2.999	18.29
354	8 398.744 00	11.5556	0.0428	11.8210	0.1135	2.481	3.000	18.28
354	8 398.758 34	11.7269	0.0432	11.7760	0.0667	2.481	3.000	18.28
354	8 398.832 88	11.6029	0.0397	11.6333	0.0407	2.481	3.001	18.26
354	8 398.847 22	11.6442	0.0414	11.6227	0.0605	2.481	3.001	18.26
354	8 398.921 79	11.6123	0.0350	11.4600	0.0217	2.481	3.002	18.25
354	8 398.936 14	11.7445	0.0241	11.8593	0.1145	2.481	3.002	18.25
354	8 404.002 85	11.6681	0.0156	11.6123	0.1016	2.479	3.049	17.49
354	8 404.077 41	11.5434	0.0328	11.4806	0.0629	2.479	3.049	17.47
354	8 404.091 74	11.6482	0.0163	11.7447	0.0899	2.479	3.049	17.47
354	8 404.166 29	11.5799	0.0263	11.6194	0.0805	2.479	3.050	17.46
354	8 404.180 65	11.6210	0.0187	11.6037	0.0999	2.479	3.050	17.46
354	8 404.255 21	11.3992	0.0153	11.5110	0.0719	2.479	3.051	17.45
354	8 404.269 53	11.3144	0.0214	11.7362	0.0986	2.479	3.051	17.44
354	8 404.432 97	11.2416	0.0254	11.4231	0.0642	2.479	3.052	17.42

N	Date	Magnitude		Additional				
	Epoch JD[TT] 2	H <sub>Pac</sub> mag 3	σ <sub>H<sub>Pac</sub></sub> mag 4	H <sub>Pac</sub> mag 5	σ <sub>H<sub>Pac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
354	8 404.447 32	11.5089	0.0352	11.8040	0.0523	2.479	3.053	17.42
354	8 404.521 88	11.5846	0.0288	11.6215	0.0670	2.479	3.053	17.40
354	8 404.536 19	11.6481	0.0309	11.6303	0.0823	2.479	3.053	17.40
354	8 404.610 74	11.5132	0.0360	11.3402	0.0280	2.479	3.054	17.39
354	8 404.625 08	11.6029	0.0422	11.6129	0.0563	2.479	3.054	17.39
354	8 404.699 64	11.5092	0.0122	11.6905	0.1077	2.479	3.055	17.38
354	8 404.713 99	11.4478	0.0359	11.6493	0.0606	2.479	3.055	17.37
354	8 598.479 11	11.5716	0.0182	11.6347	0.0592	2.518	2.930	19.04
354	8 598.553 64	11.5549	0.0226	11.5636	0.0162	2.518	2.929	19.05
354	8 598.567 99	11.6573	0.0324	11.7083	0.0589	2.518	2.929	19.05
354	8 598.642 54	11.5134	0.0264	11.5600	0.0518	2.518	2.928	19.06
354	8 598.656 86	11.5879	0.0322	11.6249	0.0417	2.518	2.928	19.06
35								

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
471	8066.696 13	11.6693	0.0406	11.6587	0.0602	2.781	1.993	15.66
471	8066.770 70	11.5717	0.0314	11.5557	0.0483	2.781	1.992	15.65
471	8066.785 02	11.4776	0.0336	11.5167	0.0524	2.781	1.992	15.65
471	8066.859 59	11.5142	0.0325	11.5227	0.0898	2.781	1.991	15.63
471	8066.873 91	11.5234	0.0658	11.6023	0.1602	2.781	1.991	15.63
471	8066.948 49	11.5451	0.0379	11.4793	0.1009	2.781	1.990	15.61
471	8066.962 83	11.5876	0.0542	11.5882	0.0928	2.781	1.990	15.60
471	8067.126 25	11.5784	0.0539	11.5837	0.0581	2.780	1.988	15.57
471	8067.140 58	11.6816	0.0365	11.6833	0.0639	2.780	1.988	15.57
471	8147.026 25	11.1710	0.0221	11.2553	0.0684	2.592	1.800	16.55
471	8147.040 58	11.2477	0.0267	11.2772	0.0425	2.592	1.800	16.55
471	8147.115 14	11.1075	0.0440	11.1253	0.0600	2.592	1.801	16.57
471	8147.129 44	11.0188	0.0268	11.1753	0.0787	2.592	1.801	16.58
471	8147.204 03	11.2083	0.0121	11.1028	0.0425	2.592	1.801	16.60
471	8147.218 35	11.0608	0.0266	11.0474	0.0283	2.592	1.801	16.60
471	8147.292 92	11.0922	0.0447	11.0918	0.0232	2.591	1.802	16.63
471	8147.307 22	11.0581	0.0294	11.1124	0.0384	2.591	1.802	16.63
471	8147.470 70	11.1249	0.0544	11.3351	0.1321	2.591	1.803	16.67
471	8147.485 02	11.2684	0.0589	11.2718	0.0666	2.591	1.803	16.67
471	8147.559 59	11.0419	0.0171	11.1645	0.0780	2.591	1.804	16.69
471	8147.573 91	11.0720	0.0427	11.0551	0.1142	2.591	1.804	16.70
471	8155.648 22	11.3127	0.0369	11.2375	0.0676	2.572	1.862	18.69
471	8155.914 89	11.2370	0.0287	11.2585	0.0562	2.572	1.864	18.75
471	8155.929 22	11.2598	0.0053	11.4452	0.0537	2.572	1.865	18.75
471	8156.003 78	11.2700	0.0203	11.2820	0.0575	2.572	1.865	18.77
471	8156.018 11	11.2396	0.0261	11.2387	0.0619	2.572	1.865	18.78
471	8156.092 66	11.3843	0.0214	11.4096	0.0505	2.571	1.866	18.79
471	8156.107 00	11.2313	0.0305	11.2308	0.0583	2.571	1.866	18.80
471	8156.181 55	11.1481	0.0222	11.1897	0.0871	2.571	1.867	18.82
471	8192.002 31	11.6669	0.0392	11.5966	0.0593	2.492	2.203	23.44
471	8192.076 86	11.6270	0.0266	11.7113	0.0508	2.492	2.204	23.45
471	8192.091 20	11.6949	0.0458	11.5974	0.0874	2.492	2.204	23.45
471	8240.947 45	11.7200	0.0386	11.7919	0.0690	2.394	2.684	21.40
471	8240.961 74	11.8022	0.0206	11.6714	0.0356	2.394	2.684	21.40
471	8241.139 51	11.7248	0.0139	11.7066	0.0776	2.394	2.686	21.38
471	8487.388 32	11.6561	0.0224	11.7062	0.0637	2.279	2.649	22.12
471	8487.462 88	11.6960	0.0407	11.5475	0.0922	2.279	2.648	22.13
471	8487.477 20	11.7822	0.0382	11.7629	0.1234	2.279	2.648	22.13
471	8487.551 76	11.9144	0.0904	11.8939	0.1004	2.279	2.647	22.14
471	8487.566 09	11.6131	0.0302	11.7337	0.0613	2.279	2.647	22.15
471	8487.640 63	11.7043	0.0489	11.6017	0.0743	2.279	2.647	22.15
471	8487.654 99	11.7576	0.0588	11.8235	0.1265	2.279	2.642	22.15
471	8537.164 27	11.4566	0.0326	11.4282	0.0173	2.346	2.151	25.28
471	8537.178 59	11.5527	0.0229	11.5639	0.0670	2.346	2.150	25.28
471	8537.253 16	11.3768	0.0395	11.3470	0.0512	2.346	2.149	25.28
471	8568.259 65	10.9648	0.0221	11.0903	0.0560	2.400	1.825	22.35
471	8568.273 98	11.0708	0.0295	11.1199	0.0273	2.400	1.825	22.35
471	8568.348 52	11.0991	0.0311	11.1620	0.0437	2.400	1.824	22.33
471	8568.362 86	10.9736	0.0341	11.0261	0.0473	2.400	1.824	22.33
471	8582.390 53	11.0097	0.0350	10.9723	0.0552	2.427	1.698	19.03
471	8582.404 85	10.9952	0.0200	10.9990	0.0337	2.427	1.697	19.03
471	8582.479 40	10.8489	0.0432	10.7430	0.0522	2.427	1.697	19.01
471	8582.493 74	10.8406	0.0151	10.8322	0.0436	2.427	1.697	19.01
471	8582.568 32	11.0045	0.0132	10.9289	0.0529	2.427	1.696	18.98
471	8582.582 64	10.8696	0.0192	10.7880	0.0413	2.427	1.696	18.98
471	8582.657 20	10.8966	0.0179	10.9413	0.0350	2.427	1.695	18.95
471	8665.865 80	11.2754	0.0091	11.3412	0.0596	2.607	1.827	15.96
471	8665.880 12	11.1418	0.0263	11.3037	0.0838	2.607	1.828	15.96
471	8665.954 70	11.0868	0.0268	11.1210	0.0532	2.607	1.829	15.98
471	8665.969 04	11.1295	0.0140	11.1024	0.0306	2.607	1.829	15.99
471	8666.043 58	11.2461	0.0161	11.1266	0.0350	2.607	1.830	16.01
471	8666.057 92	11.2244	0.0263	11.1703	0.0329	2.607	1.830	16.01
471	8666.310 24	11.3235	0.0256	11.4368	0.0541	2.608	1.833	16.07
471	8666.324 58	11.3539	0.0368	11.3073	0.0744	2.608	1.833	16.08
471	8666.399 15	11.1687	0.0298	11.1257	0.0700	2.608	1.834	16.10
471	8666.413 47	11.1322	0.0142	11.0704	0.0380	2.608	1.834	16.10
471	8666.488 02	11.2043	0.0439	11.2237	0.0819	2.608	1.835	16.12
471	8666.502 35	11.1446	0.0263	11.0210	0.0703	2.608	1.835	16.13
471	8666.754 71	11.3768	0.0360	11.2720	0.0645	2.609	1.838	16.19
471	8666.769 02	11.2203	0.0417	11.3303	0.0948	2.609	1.838	16.19
471	8666.843 57	11.1314	0.0312	11.1102	0.0650	2.609	1.839	16.22
471	8666.857 89	11.0837	0.0176	11.1855	0.0607	2.609	1.839	16.22
471	8668.902 35	11.0543	0.0280	11.1894	0.0182	2.614	1.864	16.73
471	8668.976 90	11.5488	0.0363	11.4480	0.0964	2.614	1.864	16.75
471	8668.991 24	11.3881	0.0349	11.3160	0.0827	2.614	1.865	16.75
471	8669.065 76	11.1510	0.0316	11.2818	0.0836	2.614	1.866	16.77
471	8669.080 11	11.1853	0.0219	11.2995	0.0332	2.614	1.866	16.78
471	8669.154 67	11.2301	0.0414	11.2795	0.0858	2.614	1.867	16.80
471	8669.168 97	11.2142	0.0340	11.2534	0.0992	2.614	1.867	16.80
471	8669.421 33	11.4362	0.0169	11.4833	0.0350	2.615	1.870	16.86
471	8669.435 65	11.3235	0.0267	11.2530	0.0395	2.615	1.870	16.86
471	8669.510 22	11.2898	0.0161	11.2469	0.0389	2.615	1.871	16.88
471	8669.524 56	11.3163	0.0437	11.2385	0.0443	2.615	1.871	16.88
471	8669.599 10	11.3853	0.0316	11.3240	0.0478	2.615	1.872	16.90
471	8669.613 44	11.3041	0.0160	11.3614	0.0562	2.615	1.872	16.91
471	8707.090 86	12.3231	0.0503	12.2830	0.0425	2.703	2.404	21.45
471	8707.105 18	12.1348	0.0579	12.1391	0.0926	2.703	2.404	21.45
471	8707.179 77	12.1939	0.0342	11.9347	0.0965	2.703	2.405	21.45
471	8736.144 88	12.3171	0.0587	12.4321	0.0909	2.772	2.848	20.48
471	8736.159 21	12.6140	0.0724	12.5405	0.0904	2.772	2.849	20.48
471	8757.206 43	12.8155	0.0716	12.7685	0.0716	2.822	3.154	18.34
471	8757.220 75	12.8529	0.0656	12.8973	0.1007	2.822	3.154	18.34
471	8757.295 30	12.7201	0.0457	12.6861	0.1426	2.822	3.155	18.33
471	8757.309 64	12.6333	0.0342	12.7186	0.0970	2.822	3.155	18.33
471	9024.710 76	12.5176	0.0704	12.1883	0.0960	3.349	2.751	14.88
471	9024.725 05	12.4554	0.0591	12.2857	0.1129	3.349	2.751	14.88
471	9024.799 63	12.3333	0.0168	12.2450	0.0920	3.349	2.750	14.87
511	8046.067 74	12.4036	0.0367	12.7151	0.0656	3.104	3.427	16.95
511	8046.082 05	12.6036	0.0381	12.6398	0.0559	3.104	3.426	16.96

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		H <sub>pdc</sub> mag 3	σ <sub>H<sub>pdc</sub></sub> mag 4	H <sub>pdc</sub> mag 5	σ <sub>H<sub>pdc</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
511	8046.334 41	12.5803	0.0179	12.5305	0.0700	3.104	3.423	16.98
511	8081.611 53	12.1920	0.0345	12.3138	0.0970	3.042	2.921	19.49
511	8113.850 87	12.0125	0.0285	11.9473	0.0700	2.986	2.465	18.44
511	8113.865 19	11.8369	0.0120	11.8721	0.1022	2.986	2.465	18.44
511	8113.939 76	11.9261	0.0160	11.8556	0.0583	2.986	2.464	18.44
511	8113.954 09	11.8886	0.0276	11.9790	0.0542	2.986	2.464	18.43
511	8131.982 58	11.7100	0.0475	11.6223	0.0544	2.955	2.243	15.99
511	8131.996 91	11.6329	0.0119	11.6839	0.1127	2.955	2.242	15.99
511	8132.071 46	11.4711	0.0372	11.4635	0.0567	2.955	2.242	15.98
511	8132.085 80	11.6370	0.0603	11.7416	0.0920	2.955	2.241	15.97
511	8132.160 35	11.4766	0.0148	11.4682	0.0473	2.955	2.241	15.96
511	8132.174 69	11.4114	0.0396	11.3506	0.0337	2.955	2.240	15.96
511	8248.761 39	11.6590	0.0340	11.6872	0.0394	2.772	2.387	20.28
511								

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>dc</sub> mag 3	σ <sub>HP<sub>dc</sub></sub> mag 4	HP <sub>ac</sub> mag 5	σ <sub>HP<sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
532	8 829.216 03	10.4578	0.0327	10.4872	0.0691	2.592	1.953	20.15
532	8 829.290 58	10.3680	0.0251	10.3925	0.0496	2.592	1.954	20.16
532	8 829.304 92	10.5474	0.0186	10.6410	0.0697	2.592	1.954	20.16
704	8 021.105 02	11.7753	0.0276	11.8998	0.0809	2.768	2.902	20.33
704	8 021.179 58	11.9266	0.0345	11.8952	0.0360	2.768	2.901	20.34
704	8 021.193 90	11.9699	0.0336	11.9072	0.0488	2.768	2.901	20.34
704	8 046.947 62	11.7037	0.0487	11.8067	0.1270	2.738	2.550	21.74
704	8 046.961 96	11.6003	0.0099	11.7039	0.0576	2.738	2.550	21.74
704	8 223.553 70	11.2435	0.0258	11.3667	0.0565	2.616	2.316	22.03
704	8 223.628 26	11.3424	0.0431	11.4319	0.0449	2.616	2.317	22.04
704	8 223.642 59	11.2670	0.0311	11.3111	0.0367	2.616	2.317	22.04
704	8 250.282 86	11.6350	0.0078	11.6111	0.0266	2.614	2.640	21.59
704	8 250.297 20	11.6163	0.0246	11.5817	0.0772	2.614	2.641	21.59
704	8 285.820 04	11.8202	0.0395	11.8429	0.0361	2.617	3.045	18.07
704	8 285.908 92	11.7074	0.0191	11.8784	0.0781	2.617	3.046	18.06
704	8 285.923 25	11.7927	0.0401	11.8215	0.0294	2.617	3.047	18.06
704	8 285.997 82	11.8087	0.0210	11.7953	0.0730	2.617	3.047	18.04
704	8 286.012 15	11.6950	0.0159	11.6692	0.0224	2.617	3.047	18.04
704	8 286.086 71	11.7843	0.0316	11.8553	0.0182	2.617	3.048	18.03
704	8 286.101 04	11.8217	0.0306	11.8866	0.0512	2.617	3.048	18.03
704	8 286.175 60	11.7583	0.0273	11.8555	0.0490	2.617	3.049	18.02
704	8 286.189 93	11.8535	0.0405	11.8705	0.0813	2.617	3.049	18.02
704	8 296.219 18	11.7640	0.0141	11.8656	0.0517	2.620	3.150	16.63
704	8 296.233 49	11.7157	0.0421	11.7609	0.0684	2.620	3.151	16.63
704	8 296.308 03	11.8044	0.0202	11.8158	0.0599	2.620	3.151	16.61
704	8 296.322 36	11.8612	0.0366	11.9169	0.0344	2.620	3.151	16.61
704	8 296.396 94	11.8111	0.0297	11.8605	0.0529	2.620	3.152	16.60
704	8 296.411 24	11.7238	0.0133	11.7120	0.0786	2.620	3.152	16.60
704	8 296.485 80	11.7937	0.0155	11.8046	0.0489	2.620	3.153	16.59
704	8 296.574 71	11.7479	0.0180	11.8001	0.0889	2.620	3.154	16.58
704	8 296.589 01	11.6469	0.0229	11.8249	0.0693	2.620	3.154	16.57
704	8 485.415 86	12.1013	0.0406	11.8951	0.0670	2.769	3.201	17.71
704	8 485.430 20	11.9922	0.0224	12.0049	0.1113	2.769	3.201	17.71
704	8 485.504 74	11.9155	0.0412	11.9438	0.1103	2.769	3.200	17.72
704	8 485.519 05	11.9332	0.0410	11.9979	0.0626	2.769	3.200	17.72
704	8 485.607 98	12.1697	0.0429	12.0742	0.0814	2.769	3.199	17.73
704	8 485.682 52	11.9367	0.0307	11.8701	0.0527	2.769	3.198	17.74
704	8 485.696 85	11.9962	0.0407	11.9288	0.0085	2.769	3.198	17.74
704	8 503.012 99	12.0654	0.0364	12.0587	0.0920	2.791	3.018	19.52
704	8 503.027 29	11.9503	0.0353	11.8516	0.0458	2.791	3.018	19.53
704	8 503.101 86	11.9685	0.0301	11.9357	0.0581	2.791	3.017	19.53
704	8 503.116 20	11.8319	0.0259	11.8975	0.0561	2.791	3.017	19.53

N	Date Epoch JD[TT] 2	Magnitude		Additional				
		HP <sub>dc</sub> mag 3	σ <sub>HP<sub>dc</sub></sub> mag 4	HP <sub>ac</sub> mag 5	σ <sub>HP<sub>ac</sub></sub> mag 6	d AU 7	Δ AU 8	α deg 9
704	8 503.190 77	11.8873	0.0242	11.9105	0.0683	2.791	3.016	19.54
704	8 503.205 06	11.8330	0.0383	11.8321	0.0588	2.791	3.016	19.54
704	8 534.094 22	11.7472	0.0195	11.7614	0.0544	2.831	2.651	20.78
704	8 534.108 55	11.7234	0.0244	11.7742	0.0450	2.831	2.651	20.78
704	8 534.183 12	11.7715	0.0089	11.7142	0.0370	2.832	2.650	20.78
704	8 534.272 01	11.7873	0.0305	11.7270	0.0506	2.832	2.649	20.77
704	8 534.538 68	11.7126	0.0494	11.6921	0.0817	2.832	2.645	20.77
704	8 534.553 00	11.8234	0.0478	11.9769	0.1686	2.832	2.645	20.77
704	8 534.627 57	11.8307	0.0456	11.8681	0.1057	2.832	2.644	20.77
704	8 534.641 88	11.7644	0.0466	11.6757	0.0769	2.832	2.644	20.77
704	8 534.716 45	11.8402	0.0307	11.7911	0.0631	2.832	2.643	20.76
704	8 534.730 76	11.9388	0.0455	11.8467	0.0891	2.832	2.643	20.76
704	8 534.983 12	11.7582	0.0312	11.8767	0.0342	2.833	2.640	20.76
704	8 569.235 67	11.4339	0.0207	11.3979	0.1096	2.879	2.237	17.20
704	8 569.250 00	11.2642	0.0454	11.4254	0.1012	2.879	2.237	17.19
704	8 569.338 88	11.2564	0.0365	11.3097	0.0403	2.879	2.236	17.17
704	8 569.502 35	11.2931	0.0339	11.3150	0.0508	2.880	2.235	17.14
704	8 569.516 66	11.2608	0.0276	11.3581	0.0845	2.880	2.234	17.14
704	8 569.591 25	11.2871	0.0275	11.2983	0.0662	2.880	2.234	17.13
704	8 579.027 18	11.1203	0.0342	11.1041	0.0577	2.893	2.141	14.93
704	8 579.101 77	11.2019	0.0440	11.0924	0.0608	2.893	2.141	14.91
704	8 579.116 08	11.0680	0.0263	11.1618	0.0751	2.893	2.141	14.91
704	8 579.279 54	11.1534	0.0494	11.2356	0.0636	2.893	2.139	14.87
704	8 579.293 87	11.1270	0.0257	11.2228	0.0685	2.893	2.139	14.87
704	8 579.368 45	11.1896	0.0440	11.1493	0.0679	2.893	2.138	14.85
704	8 579.457 33	11.1305	0.0277	11.1046	0.0244	2.894	2.137	14.82
704	8 579.471 63	11.0729	0.0268	11.1685	0.0269	2.894	2.137	14.82
704	8 660.529 47	11.2987	0.0330	11.3986	0.0810	3.011	2.258	14.05
704	8 660.543 78	11.2649	0.0363	11.4116	0.0316	3.011	2.258	14.05
704	8 660.618 38	11.3426	0.0252	11.3119	0.0548	3.011	2.259	14.07
704	8 660.632 69	11.4033	0.0550	11.1681	0.0404	3.011	2.259	14.07
704	8 669.862 07	11.2691	0.0477	11.4176	0.1020	3.024	2.377	15.99
704	8 669.876 41	11.3519	0.0400	11.2807	0.0856	3.024	2.377	15.99
704	8 669.950 97	11.5416	0.0558	11.5603	0.0291	3.024	2.378	16.01
704	8 669.965 30	11.5147	0.0284	11.4986	0.0922	3.024	2.378	16.01
704	8 670.039 85	11.6665	0.0477	11.6451	0.0979	3.024	2.379	16.02
704	8 703.534 07	12.2296	0.0158	12.0466	0.0629	3.073	2.877	18.87
704	8 703.548 39	12.0798	0.0097	12.1606	0.0758	3.073	2.877	18.87
704	8 703.622 95	12.3019	0.0528	12.1481	0.0600	3.073	2.878	18.87
704	8 703.637 27	12.1489	0.0325	11.9998	0.0582	3.073	2.879	18.87
704	8 703.711 85	11.9936	0.0822	12.0351	0.1695	3.073	2.880	18.87
704	8 735.518 42	12.5830	0.0404	12.4806	0.0735	3.118	3.363	17.25
704	8 735.532 76	12.4539	0.0721	12.3311	0.0642	3.118	3.364	17.25