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ICCD SPECKLE OBSERVATIONS OF BINARY STARS. XXIII. MEASUREMENTS DURING 1982–1997 FROM SIX TELESCOPES, WITH 14 NEW ORBITS

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ABSTRACT

We present 2017 observations of 1286 binary stars, observed by means of speckle interferometry using six telescopes over a 15 year period from 1982 April to 1997 June. These measurements constitute the 23d installment in CHARA's speckle program at 2 to 4 m class telescopes and include the second major collection of measurements from the Mount Wilson 100 inch (2.5 m) Hooker Telescope. Orbital elements are also presented for 14 systems, seven of which have had no previously published orbital analyses.

Key words: binaries: general — binaries: visual — techniques: interferometric

1. INTRODUCTION

This paper is the 23d in our current series of reports on a long-running effort to provide high-accuracy, high angular resolution measurements of binary star systems by speckle methods. The Center for High Angular Resolution Astronomy (CHARA) speckle camera has been used on numerous telescopes since its construction in 1981. Its primary "home" until 1993 was Arizona, where from 1982 to 1989 it was shuttled between Lowell Observatory and Kitt Peak National Observatory. Our main observing programs—close visual pairs, spectroscopic binaries, etc.—used observations obtained at the KPNO 3.8 m telescope; see Hartkopf et al. (1994) for the most recent major collection of these data. The 1.8 m Perkins Telescope at Lowell Observatory was used in a long-term planet search project; see Al-Shukri et al. (1996) and Fu et al. (1997) for a description of this program. Other observing runs during this period at the 2.5 m Hooker Telescope at Mount Wilson Observatory, the 3.0 m Shane Telescope at Lick Observatory, and the 3.6 m Canada-France-Hawaii Telescope on Mauna Kea were aimed at studying the duplicity rate of potential *Hubble Space Telescope* guide stars (see McAlister et al. 1987b). Our observing program was extended to the southern hemisphere in a series of 10 observing runs at the Cerro Tololo Inter-American Observatory 4.0 m between 1989 April and 1996 March.

In 1993 December our speckle program found a new home at Mount Wilson Observatory, and since that time we have completed over 20 successful observing runs using the renovated 2.5 m Hooker Telescope. Paper XVII in this series (Hartkopf et al. 1997) describes the extensive renovation work done to this venerable instrument, as well as the equipment and method developed for use with the telescope to provide absolute scale calibration of our astrometry.

We present here 2017 measures obtained at these six telescopes during 60 observing runs between 1982 April and 1997 June. Table 1 lists all observing runs contributing observations to this paper, together with the resulting number of new measurements presented in Table 2. As can readily be seen, the number of new measurements resulting from each run varies wildly. Most of the observations obtained on runs through 1995 have already been published; the results presented here consist mainly of data originally considered too marginal in quality for publication, or data whose publication was delayed pending confirmation by later reobservation. The "marginal" data were reprocessed using better reduction techniques than were originally available (see Bagnuolo et al. 1992), resulting in measurements of much higher quality. Major

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TABLE 1

OBSERVING RUNS

Dates	Tel. (m)	No. of Meas.	Observers
1982 Apr.....	1.8	1	W. I. H., H. A. M.
1982 Jul.....	3.8	27	O. G. F., W. I. H., H. A. M.
1982 Oct.....	3.8	13	O. G. F., H. A. M., H. R. Miller
1983 Jan	3.8	26	O. G. F., W. I. H., H. A. M., H. R. Miller
1983 Jun	3.8	31	O. G. F., B. J. Gaston, H. A. M., H. R. Miller
1983 Sep	3.8	12	O. G. F., H. A. M.
1984 Jan	3.8	42	O. G. F., H. A. M., J. W. Wilson
1984 Mar	1.8	24	O. G. F.
1984 Apr.....	1.8	8	O. G. F.
1984 May.....	1.8	5	O. G. F., D. J. Hutter
	3.8	64	O. G. F., D. J. Hutter
1984 Jun	1.8	11	D. J. Hutter
1984 Sep	3.8	35	O. G. F., D. J. Hutter, H. A. M.
1984 Nov	1.8	6	O. G. F.
1984 Dec	3.8	21	O. G. F., D. J. Hutter, W. S. Tsay
1985 Mar	2.5	3	D. J. Hutter, H. A. M., M. M. Shara
1985 Apr.....	3.0	8	O. G. F., D. J. Hutter, M. M. Shara
1985 Jun	3.8	17	W. I. H., H. A. M., P. K. Lu, C. E. Worley
1985 Nov	3.8	27	O. G. F., W. I. H., P. K. Lu, H. A. M.
1986 May.....	3.8	22	O. G. F., W. I. H.
1986 Nov	3.8	77	O. G. F., W. I. H., J. R. Sowell
1987 Apr.....	3.8	33	O. G. F., W. I. H., H. A. M.
1987 Jul.....	1.8	1	E. G. Dombrowski, O. G. F.
1987 Oct.....	3.8	51	E. G. Dombrowski, O. G. F., W. I. H.
1988 Apr.....	3.8	40	E. G. Dombrowski, O. G. F., J. R. Sowell
1988 Aug	3.8	28	D. J. Barry, O. G. F., H. A. M.
1988 Nov	1.8	1	D. J. Barry, O. G. F., J. R. Sowell
1989 Mar	3.8	27	O. G. F., W. I. H., H. A. M.
1989 Apr.....	4.0	23	O. G. F., W. I. H., H. A. M.
1989 Aug	1.8	1	E. G. Dombrowski
1989 Sep	3.8	20	W. G. Bagnuolo, Jr., O. G. F., W. I. H.
1989 Dec	4.0	35	D. J. Barry, W. I. H.
1990 May.....	4.0	1	W. G. Bagnuolo, Jr., D. J. Barry
1990 Sep	3.8	1	W. I. H., H. A. M.
1990 Nov	4.0	1	O. G. F., H. A. M.
1991 Sep	4.0	1	O. G. F., C. M. P., N. H. T.
1991 Nov	3.8	3	D. J. Barry, B. D. M.
1992 Apr.....	3.8	1	W. I. H., B. D. M.
1993 Feb.....	4.0	279	W. I. H., B. D. M.
1993 Mar	3.8	6	H.-H. Fu, N. H. T.
1994 Feb.....	2.5	2	B. D. M.
1994 Mar	2.5	2	B. D. M., L. C. R.
1994 Apr.....	4.0	1	W. I. H., B. D. M.
1994 Sep	3.8	188	W. I. H., B. D. M.
1994 Nov	3.6	10	W. I. H., B. D. M.
1995 Feb.....	2.5	3	T. A. t. B., B. D. M.
1995 Apr.....	2.5	6	T. A. t. B., N. H. T.
1995 Jun	2.5	2	W. I. H., B. D. M.
1995 Aug	2.5	4	T. A. t. B., J. W. Wilson
1995 Oct.....	2.5	7	W. I. H., H. A. M.
1995 Dec	2.5	3	T. A. t. B., L. C. R.
1996 Mar	4.0	63	T. A. t. B., W. I. H.
1996 Apr.....	2.5	37	L. C. R., N. H. T.
1996 Jun	2.5	47	W. I. H.
1996 Jul.....	2.5	195	B. D. M.
1996 Sep	2.5	115	J. F. L., C. M. P., L. C. R.
1996 Nov	2.5	159	B. D. M., L. C. R.
1997 Feb.....	2.5	135	L. C. R.
1997 Apr.....	2.5	4	T. A. t. B., B. D. M.
1997 Jun	2.5	1	W. I. H.

NOTE.—Telescopes: CFHT 3.6 m, CTIO 4.0 m, KPNO 3.8 m, Lick 3.0 m, Lowell 1.8 m, Mount Wilson 2.5 m.

TABLE 2

SPECKLE MEASURES

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 17175	Bu 733 AB	HD 224930	00022+2705
1987.7568	323.6	0.445	549/22 3.8
ADS 17180	A 1249 AB	HD 224994	00024+1047
1987.7542	231.3	0.252	538/76 3.8
ADS 4	A 428	HD 225015	00026−0829
1989.9382	13.6	0.282	538/76 4.0
HR 9097	CHR 121	HD 225094	00034+6338
1994.7003	219.7	0.186	549/22 3.8
1994.7084	217.5	0.187	549/22 3.8
ADS 32	StF 3056 AB	HD 225220	00047+3416
1986.8940	143.1	0.738	549/22 3.8
ADS 30	CHR 122 Aa	HD 225218	00046+4206
1994.7030	72.5	0.081	549/22 3.8
1996.5378	60.0	0.075	549/22 2.5
ADS 51	Hu 1201 AB	HD 39	00055+3406
1994.7084	308.1	0.176	549/22 3.8
1996.6909	308.3	0.195	549/22 2.5
ADS 129	Bu 485	HD 627	00108+5846
1986.8859	272.0:	0.136:	538/76 3.8
1987.7623	274.1:	0.134:	538/76 3.8
1994.7084	257.4	0.097	549/22 3.8
ADS 147	Bu 255	HD 744	00118+2825
1984.7014	76.4	0.532	549/22 3.8
ADS 148	Bu 1026 Aa, B	HD 761	00121+5337
1996.6910	292.8	0.248	549/22 2.5
ADS 155	A 2001	HD 866	00130+0257
1986.8859	156.7:	0.356:	538/76 3.8
1987.7542	156.5	0.343	538/76 3.8
ADS 161	Stt 2 AB	HD 895	00134+2659
1994.7083	174.6	0.345	549/22 3.8
1996.5378	172.7	0.352	549/22 2.5
ADS 197	A 1256 AB	HD 1082	00153+4412
1984.9991	61.6	0.117	549/22 3.8
1987.7622	69.7	0.098	549/22 3.8
HR 63	CHR 123	HD 1280	00171+3841[a]
1996.5378	141.3:	0.045:	549/22 2.5
1996.6909	134.9:	0.053:	549/22 2.5
ADS 238	A 1803 AB	HD 1317	00174+0853
1994.8672	303.3	0.182	538/76 3.6
ADS 243	A 803	HD 1360	00182+7257
1994.7084	113.2	0.225	538/76 3.8
ADS 281	Bu 1015	HD 1634	00206+1219
1986.8859	76.7	0.335	538/76 3.8
ADS 287	Bu 1093	HD 1663	00209+1059
1996.8600	114.1	0.733	549/22 2.5
ADS 293	Stt 6 AB	HD 1658	00214+6700
1994.7084	154.6	0.598	549/22 3.8
ADS 296	Stt 7 AB	HD 1696	00218+6628
1987.7595	124.2	0.854	538/76 3.8
ADS 328	Hu 506	HD 1976	00243+5201
1994.7084	61.3	0.145	549/22 3.8
1996.5378	64.3	0.138	549/22 2.5
1996.8657	65.4	0.138	549/22 2.5
AG +30°46	Cou 653	BD +30°58	00270+3058
1986.8859	263.3	0.361	NF 3.8
1989.7118	261.6	0.366	538/76 3.8
1996.6909	258.5	0.393	549/22 2.5
ADS 371	Hu 1007	BD +62°84	00283+6344
1988.6660	71.0:	0.542:	549/22 3.8
ADS 416	Bu 394	HD 2675	00308+4732
1994.7030	133.2	0.061	549/22 3.8
1996.6910	244.1	0.079	549/22 2.5
BD +26°72	Cou 547	HD 2854	00320+2740
1987.7622	205.0	0.082	538/76 3.8
1989.7174	209.3	0.104	538/76 3.8
1994.7030	217.1	0.131	549+538 3.8
1996.6909	216.8	0.137	549/22 2.5
ADS 450	A 111 AB	HD 2880	00321−0511
1987.7622	117.7:	0.171:	538/76 3.8
1989.7174	82.6:	0.175:	538/76 3.8
1989.9382	82.6	0.163	538/76 4.0
1994.7083	19.1:	0.079:	538/76 3.8
ADS 463	Ho 3	HD 2993	00335+4006
1994.7084	273.4	0.251	549/22 3.8
1996.6909	261.4	0.218	549/22 2.5
AG +29°82	Cou 654	BD +29°99	00345+3015
1996.6909	210.7	0.250	549/22 2.5
ADS 490	Ho 212 AB	HD 3196	00352−0336
1994.7083	11.2	0.152	549/22 3.8
1996.5405	61.4	0.264	549/22 2.5
ADS 493	Stt 15	HD 3210–11	00358+4901
1994.7084	320.7	0.218	549/22 3.8
ADS 520	Bu 395	HD 3443	00373−2446
1985.8401	100.5	0.584	549/22 3.8
1988.6660	108.0	0.763	549/22 3.8
1994.8672	127.5	0.336	549/22 3.6
HR 178	WRH 28	HD 3883	00416+2438
1988.8982	252.6:	0.116:	538/76 1.8
BD −07°107	Rst 4154 AB	HD 4019	00426−0652
1989.9382	257.7:	0.144:	538/76 4.0
BD +61°159	Mlr 26	HD 4116	00444+6210
1986.8860	49.0:	0.212:	538/76 3.8
1994.7084	50.1:	0.225:	538/76 3.8
ADS 621	A 919 AB	HD 4173	00448+6019
1987.7595	152.0	0.381	538/76 3.8
1994.7084	153.7	0.373	549/22 3.8
ADS 673	Bu 495	HD 4655	00487+1841
1996.5433	338.2	0.183	538/76 2.5
ADS 674	A 921 AB	HD 236538	00492+5720
1994.7084	164.0	0.154	538/76 3.8
1996.6910	168.4	0.162	538/76 2.5
AG +38°71	...	BD +38°118	00499+3915
1985.4985	...	<0.030	538/76 3.8
1985.8403	...	<0.030	549/22 3.8
BD +59°129	Mlr 27	HD 236553	00512+6019
1994.7084	209.8:	0.431:	538/76 3.8
ADS 701	A 1808	HD 4934	00516+2237
1994.7085	187.7	0.147	549/22 3.8
1996.5378	189.2	0.154	549/22 2.5
ADS 705	A 924	BD +31°132	00520+3154
1994.7085	2.4	0.136	538/76 3.8
1996.6909	351.1	0.143	549/22 2.5
ADS 732	A 2307	HD 5143	00533+0405
1994.7085	51.4	0.253	549/22 3.8
1996.5433	49.0	0.235	549/22 2.5
BD +42°196	Cou 1654	HD 5178	00542+4318
1994.7085	97.1	0.154	549/22 3.8
ADS 746	Stt 20 AB	HD 5267	00546+1911
1984.0602	213.8	0.463	549/22 3.8
1994.7085	199.4	0.499	549/22 3.8
ADS 749	Hu 802	HD 5259	00549+4924
1994.7085	217.6	0.350	549/22 3.8
ADS 755	StF 73 AB	HD 5286	00550+2338
1984.7096	270.9	0.660	549/22 3.8
1984.9966	272.1	0.660	549/22 3.8
1994.7085	298.3	0.801	549/22 3.8
1996.5378	301.7	0.824	549/22 2.5
ADS 768	Bu 500	HD 5315	00554+3040
1994.7085	300.6	0.498	549/22 3.8
ADS 773	A 1259	HD 232319	00561+5406
1994.7084	105.1:	0.114:	538/76 3.8
ADS 784	Bu 1099 AB	HD 5408	00568+6022
1994.7084	339.9	0.279	549/22 3.8
ADS 795	Hld 4	HD 5502	00576+5424
1986.8860	221.3:	0.128:	538/76 3.8
1994.7084	338.6	0.134	549/22 3.8
1996.6910	356.5	0.159	549/22 2.5
ADS 805	Bu 302	HD 5641	00583+2124
1994.7085	177.8	0.388	549/22 3.8
ADS 819	A 1902	HD 5781	00593−0040
1988.6661	183.7	0.317	549/22 3.8
1996.6963	194.0	0.339	549/22 2.5
BD +40°199	Cou 1505	HD 5729	00594+4057
1996.6909	137.7	0.221	549/22 2.5
ADS 832	A 926	HD 5851	01011+6022
1994.7084	332.1	0.383	549/22 3.8
ADS 828	Bu 867	HD 5988	01014+1155
1996.5405	1.4	0.525	538/76 2.5
BD +34°164	Cou 854	HD 5955	01014+3535
1994.7085	307.2	0.116	549/22 3.8
1996.6909	289.0	0.114	549/22 2.5
ADS 836	A 2901	HD 5839	01015+6922
1982.5088	50.6	0.396	467/16 3.8
ADS 854	A 2003	HD 6094	01023+0552
1994.7085	132.2	0.173	538/76 3.8
ADS 859	Bu 1161	HD 6084	01029+5148
1984.9993	5.0:	0.357:	549/22 3.8
1994.7085	10.4	0.358	549/22 3.8
BD +62°191	Mlr 87	HD 6129	01036+6341
1994.7084	71.4	0.305	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 873	Ho 213	HD 6264	01040+3528
1994.7085	105.0	0.298	549/22 3.8
ADS 884	A 2310	HD 6387	01048+0135
1988.6661	324.9	0.285	549/22 3.8
1994.7031	323.7:	0.320:	538/76 3.8
1996.6963	322.1	0.315	549/22 2.5
ADS 883	A 1515	BD +36°190	01049+3649
1994.7085	294.0	0.232	538/76 3.8
ADS 887	A 929 AB	BD +29°176	01070+3014
1994.7085	125.6	0.673	538/76 3.8
ADS 918	A 1516 AB	HD 6586	01072+3839[b]
1994.7085	151.5	0.102	549/22 3.8
1996.6938	184.9	0.093	549/22 2.5
ADS 936	AC 13 AB	HD 6757	01089+4512
1984.9966	263.4	0.595	538/76 3.8
1988.6608	263.8	0.604	549/22 3.8
ADS 955	Bu 303	HD 6886	01097+2348
1984.9966	291.5	0.655	549/22 3.8
1985.8374	291.0	0.656	549/22 3.8
ADS 950	Egg 1 Aa	HD 6843	01100+5202
1987.7625	147.2	0.047	549/22 3.8
ADS 963	Bu 235 Aa	HD 6918	01106+5101
1986.8942	126.2	0.987	549/22 3.8
ADS 974	A 655	HD 7018	01112+4113
1994.7085	326.9	0.365	549/22 3.8
ADS 993	A 1260	HD 7255	01131+2942
1994.7085	48.3	0.246	538/76 3.8
AG +02°131	CHR 195	BD +01°234	01155+0216
1996.8657	147.7:	0.260:	538/76 2.5
ADS 1007	A 935	HD 7432	01157+5918
1994.7084	356.4	0.269	538/76 3.8
ADS 1040	StF 102 AB	HD 7710	01178+4901
1984.0629	280.1	0.495	549/22 3.8
BD +32°229	Cou 663	HD 7854	01187+3345
1994.7086	175.7	0.343	549/22 3.8
AG +50°147	Cou 2005	BD +49°348	01191+5021
1994.7086	191.6:	0.134:	538/76 3.8
1996.6912	188.6:	0.155:	538/76 2.5
ADS 1065	Hu 521	HD 7881	01194+4857
1987.7570	289.6	0.286	NF 3.8
1994.7086	291.5:	0.287:	538/76 3.8
ADS 1077	A 313	HD 8032	01196−0520
1994.7085	357.0	0.256	549/22 3.8
1996.8657	352.8	0.259	549/22 2.5
ADS 1081	StF 113 A, BC	HD 8036	01198−0031
1983.0690	13.9	1.671	549/22 3.8
ADS 1087	HJ 2036	HD 8071	01200−1549
1991.7129	343.8	2.171	549/22 4.0
ADS 1105	StF 115 AB	HD 8272	01234+5809
1994.7031	194.7	0.092	549/22 3.8
1996.6910	183.2	0.121	549/22 2.5
ADS 1123	Bu 1163	HD 8556	01243−0655
1984.8407	208.9:	0.317:	538/76 1.8
1996.6940	214.8	0.376	549/22 2.5
AG +27°151	Cou 666	BD +26°235	01258+2733
1994.7086	152.1	0.352	538/76 3.8
ADS 1183	A 1910 AB	HD 9071	01297+2250
1996.6938	220.0	0.116	549/22 2.5
BD +09°175	CHR 197	HD 9110	01298+1014
1996.8657	104.9	0.087	549/22 2.5
ADS 1224	A 1912 AB	HD 9532	01341+3612
1989.7119	1.2	0.194	549/22 3.8
1994.7086	4.1	0.182	549/22 3.8
ADS 1232	A 314	HD 9626	01343−0827
1994.7085	40.7	0.114	549/22 3.8
1996.8657	29.5	0.161	549/22 2.5
BD +63°206	Mlr 103	HD 9570	01357+6409
1987.7625	107.4:	0.352:	538/76 3.8
ADS 1226	A 816	HD 9454	01356+7227
1984.9966	309.1	0.791	538/76 3.8
ADS 1263	A 817	HD 9841	01372+4843
1984.7043	29.9	0.484	549/22 3.8
AG +39°163	Cou 1214	BD +39°367	01373+4015
1994.7086	175.3	0.316	549/22 3.8
HR 466	Kui 7	HD 10009	01376−0924
1996.6940	154.3	0.300	549/22 2.5
ADS 1286	A 1266	HD 10031	01393+5436
1994.7086	239.7	0.170	549/22 3.8
1996.6910	238.5	0.157	549/22 2.5
ADS 1309	A 1267	HD 10146	01406+5457
1984.9995	1.6:	0.278:	538/76 3.8
1994.7086	5.0	0.267	549/22 3.8
ADS 1323	A 2404	HD 10313	01409+0138
1994.7085	37.5	0.093	549/22 3.8
1996.8657	31.6	0.109	549/22 2.5
ADS 1321	A 2320	HD 10297	01409+1117
1994.7085	215.6	0.073	538/76 3.8
ADS 1318	Kr 12	HD 10196	01416+6241
1984.7045	294.4	0.429	549/22 3.8
ADS 1339	StF 147	HD 10453	01417−1119
1996.8630	94.0	0.808	549/22 2.5
ADS 1327	A 1268	HD 10273	01417+5323
1986.8861	265.9:	0.125:	NF 3.8
ADS 1345	A 1	HD 10508	01424−0645
1984.7070	241.0	0.777	549/22 3.8
1985.8429	241.1	0.778	549/22 3.8
ADS 1341	B 2550 AB	BD +49°440	01425+5000
1986.8861	271.4:	0.220:	NF 3.8
1994.7086	275.1	0.233	538/76 3.8
ADS 1360	Bu 509	HD 10619	01437+0934
1994.7085	75.5	0.468	549/22 3.8
1996.8657	68.9	0.506	549/22 2.5
ADS 1359	Bu 870 AB	HD 10543	01443+5732
1986.8942	0.0	0.858	549/22 3.8
AG +26°179	Cou 750	BD +26°287	01450+2703
1994.7086	185.9	0.149	538/76 3.8
ADS 1380	StF 148	HD 10663	01461+6349
1987.7571	163.2	0.427	549/22 3.8
AG +29°225	Cou 451	BD +28°295	01465+2936
1994.7086	73.8	0.269	538/76 3.8
ADS 1438	StF 162 Aa, B	HD 11031	01493+4754
1989.7147	204.2:	1.994:	538+549 3.8
ADS 1438	CHR 4 Aa	HD 11031	01493+4754
1994.7031	251.2	0.121	549/22 3.8
ADS 1437	A 950 AB	HD 236885	01495+5645
1994.7086	248.2:	0.171:	538/76 3.8
ADS 1451	Hu 422	HD 11182	01497−1414
1996.8657	45.2	0.241	549/22 2.5
ADS 1454	Bu 1168	HD 11181	01497−1022
1996.8657	216.1	0.204	549/22 2.5
ADS 1457	StF 174	HD 11154	01501+2217
1983.0690	165.3	2.970	549/22 3.8
BD +25°311	Cou 452	HD 11245	01510+2551
1994.7086	181.0	0.293	549/22 3.8
ADS 1473	Ho 311	HD 11284	01512+2439
1994.7031	339.4	0.201	549/22 3.8
ADS 1461	A 951	HD 11126	01513+6021
1986.8942	217.3	0.438	538/76 3.8
ADS 1482	Hu 1213	HD 11364	01520+1326
1987.7572	107.0	0.160	538/76 3.8
1994.7085	100.2	0.150	538/76 3.8
ADS 1509	A 953	HD 11472	01546+5956
1984.7045	67.7	0.803	549/22 3.8
1986.8942	64.2	0.781	538/76 3.8
ADS 1522	StF 183 AB	HD 11671	01551+2847
1994.7031	161.1	0.327	549/22 3.8
ADS 1538	StF 186	HD 11803	01559+0151
1986.8942	57.0	1.229	549/22 3.8
1996.6965	60.1	1.077	549/22 2.5
BD +50°394	…	HD 11658	01558+5141
1985.8431	…	<0.030	549/22 3.8
ADS 1548	A 819 AB	HD 11849	01570+3101
1994.7087	230.2	0.236	549/22 3.8
ADS 1554	A 1526	HD 11869	01577+4434
1985.8485	256.0:	0.129:	538/76 3.8
1986.8861	254.8:	0.127:	NF 3.8
1994.7086	237.3:	0.101:	538/76 3.8
ADS 1592	A 956	HD 12122	02009+6025
1987.7571	310.3	0.439	538/76 3.8
AG +40°211	Cou 1510	BD +40°426	02016+4107
1994.7086	133.3:	0.379:	538/76 3.8
AG +45°221	Cou 1665	BD +44°407	02021+4530
1987.7571	102.9	0.502	549/22 3.8
ADS 1613	A 1813 AB	HD 12376	02022+3643[b]
1993.2047	258.4:	0.088:	538/76 3.8
1994.7086	315.7	0.096	538/76 3.8
1996.8657	349.6	0.146	549/22 2.5
BD +08°316	McA 4	HD 12483	02026+0905
1996.8657	147.4	0.224	549/22 2.5
ADS 1630	Stt 38 BC	HD 12534	02039+4220
1984.0602	108.9	0.582	549/22 3.8
1994.7086	106.3	0.534	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1996.6912	105.6	0.507	549/22 2.5
BD +38°401	Cou 1365	HD 12592	02043+3924
1994.7086	129.4	0.197	538/76 3.8
ADS 1646	StF 204	HD 12649	02071+6957
1987.7571	56.7	0.440	538/76 3.8
BD +34°379	Cou 1067	HD 13102	02090+3540
1994.7087	23.4	0.186	538/76 3.8
ADS 1680	A 2325	BD +00°358	02097+0048
1996.6964	118.6:	0.241:	549/22 2.5
AG +44°222	Cou 1667	BD +43°436	02107+4426
1994.7086	64.8:	0.133:	538/76 3.8
AG +61°220	Mlr 30	BD +60°448	02122+6132
1987.7571	64.5:	0.254:	549/22 3.8
ADS 1709	StF 228	HD 13594	02140+4729
1982.7604	269.3	1.055	549/22 3.8
1983.7130	270.6	1.075	549/22 3.8
1986.8943	271.9	1.070	549/22 3.8
HR 640	McA 6	HD 13474	02145+6631[b]
1984.0602	40.7	0.070	549/22 3.8
1987.7627	82.8:	0.052:	549/22 3.8
1994.7086	217.8	0.070	549/22 3.8
ADS 1729	A 2013	HD 13959	02159+0638
1986.8915	113.6:	0.410:	538/76 3.8
1993.0922	102.3:	0.476:	538/76 4.0
1994.7032	98.1	0.479	538/76 3.8
BD +40°469	Cou 1669	HD 13844	02160+4046
1994.7086	173.7:	0.198:	538/76 3.8
BD +40°476	Cou 1670	HD 14137	02183+4120
1996.6912	39.7	0.137	549/22 2.5
ADS 1763	Egg 2 Aa	HD 14189	02186+4017
1994.7086	141.6	0.239	549/22 3.8
1996.6912	146.0	0.243	549/22 2.5
BD +06°347	Vou 40	HD 14416	02198+0640
1994.7087	117.6:	0.207:	538/76 3.8
BD −02°401	Rst 4204	HD 14904	02243−0155
1989.9384	329.0	0.301	538/76 4.0
BD +24°344	Cou 357	HD 14918	02250+2529
1986.8942	135.5	0.276	538/76 3.8
1994.7087	130.4	0.295	549/22 3.8
ADS 1853	A 2328	BD +19°357	02270+1952
1986.8888	79.8	0.419	538/76 3.8
ADS 1865	A 2329	HD 15285	02278+0426
1986.8915	296.6:	0.404:	538/76 3.8
1989.9385	65.3:	0.250:	538/76 4.0
1994.7032	107.1	0.597	538/76 3.8
1996.6965	112.9	0.631	549/22 2.5
HR 719	Kui 8	HD 15328	02280+0158
1989.9385	35.7	0.510	467/16 4.0
1994.7032	35.3	0.517	549/22 3.8
1996.6940	35.5	0.508	549/22 2.5
ADS 1860	CHR 6 Aa	HD 15089	02291+6724
1994.7086	154.8:	0.181:	549/22 3.8
ADS 1900	Bu 519	HD 15513	02297−0216
1984.7070	76.6	0.562	549/22 3.8
1985.8539	76.7	0.543	538/76 3.8
1996.6964	80.9:	0.457:	549/22 2.5
ADS 1913	A 660	HD 15561	02314+4234
1984.7046	311.3	0.472	549/22 3.8
1984.9967	311.0	0.474	538/76 3.8
ADS 1945	A 316	HD 15822	02327−0145
1989.9384	94.7:	0.594:	538/76 4.0
ADS 1938	Stt 42 AB	HD 15703	02333+5219
1994.7087	298.4	0.080	549/22 3.8
1996.6913	300.7	0.074	549/22 2.5
HR 763	McA 7	HD 16234	02366+1227
1984.7046	23.7	0.029	549/22 3.8
ADS 1992	A 1278	HD 16283	02382+4604
1994.7087	138.3	0.117	549/22 3.8
1996.6912	132.8	0.103	549/22 2.5
HR 781	Fin 312	HD 16620	02396−1152
1993.0923	196.2	0.100	549/22 4.0
ADS 2028	A 1928	HD 16619	02399+0009[b]
1987.7626	270.6:	0.131:	538/76 3.8
1990.7550	33.1:	0.084:	549/22 3.8
1994.7032	4.1	0.113	549/22 3.8
1996.6964	31.2	0.161	549/22 2.5
ADS 2032	Cou 1371 Aa	BD +38°536	02410+3905
1996.8657	129.2	0.169	549/22 2.5
BD +40°568	Cou 1511	HD 16656	02415+4053
1994.7087	331.3	0.136	538/76 3.8
1996.6912	312.7:	0.150:	549/22 2.5
ADS 2040	A 1280	HD 16576	02417+5529
1986.8916	6.4:	0.348:	538/76 3.8
1994.7089	7.7	0.346	549/22 3.8
BD +50°607	Cou 2356	BD +50°607	02418+5056
1996.8658	160.0	0.228	538/76 2.5
HR 788	McA 8	HD 16739	02422+4012
1994.7087	138.4	0.052	549/22 3.8
1996.6912	115.1	0.060	549+467 2.5
ADS 2051	Hu 539	HD 16692	02423+4925
1994.7087	3.7	0.135	538/76 3.8
CD −23°1040	Rst 2286	HD 17050	02437−2240
1993.0977	11.9	0.141	538/76 4.0
ADS 2133	A 2411	HD 17417	02477+0142
1989.9385	279.6:	0.350:	538/76 4.0
ADS 2186	See 21	HD 17881	02518−2117
1993.0977	50.7	0.077	549/22 4.0
BD +47°717	Cou 2013	HD 17670	02520+4831
1994.7087	95.8	0.212	538/76 3.8
ADS 2185	A 2906 AB	HD 17743	02529+5300
1994.7087	129.0	0.214	549/22 3.8
1996.6967	127.0	0.213	549/22 2.5
ADS 2185	StF 314 AB, C	HD 17743	02529+5300
1994.7087	312.9	1.568	549/22 3.8
1996.6967	313.1	1.545	549/22 2.5
ADS 2200	Bu 524 AB	HD 17904	02537+3820
1994.7087	219.6	0.120	549/22 3.8
BD −00°457	Rst 4753	HD 18286	02562+0031
1989.9385	68.7:	0.318:	538/76 4.0
ADS 2231	Daw 77	HD 18387	02563−2857
1993.0978	74.1	0.248	549/22 4.0
ADS 2236	A 2413	HD 18368	02572+0153
1989.9385	118.7:	0.340:	538/76 4.0
1996.6965	137.0	0.399	549/22 2.5
SAO 56037	Cou 867	BD +34°546	02580+3438
1994.7087	60.4:	0.160:	538/76 3.8
ADS 2246	Bu 1173 AB	HD 18442	02586+2408
1994.7087	93.2	0.232	549/22 3.8
1996.6965	94.0	0.230	549/22 2.5
ADS 2253	Bu 525	HD 18484	02589+2137
1996.6965	264.9	0.527	549/22 2.5
1996.6993	265.0	0.528	549/22 2.5
ADS 2283	A 2611	HD 18740	03003−1118
1996.8685	199.1	0.214	549/22 2.5
ADS 2271	A 1529 AB	HD 18549	03006+4753
1986.8917	164.9	0.191	538/76 3.8
1994.7087	165.2	0.233	549/22 3.8
HR 915	WRH 29 Aa	HD 18925	03048+5330
1994.7087	65.4	0.179	549/22 3.8
1996.6967	63.9	0.230	549/22 2.5
ADS 2336	StF 346 AB	HD 19134–35	03054+2515
1994.7087	249.1	0.313	549/22 3.8
1996.8605	249.8	0.323	549/22 2.5
ADS 2334	Bu 1175	HD 19091–92	03058+4342
1984.0521	274.4	0.609	549/22 3.8
BD +61°520	Mlr 35	HD 18990	03062+6146
1988.6664	339.5:	0.225:	549/22 3.8
ADS 2429	Hu 1055 AB	BD +15°452	03151+1618[b]
1995.9183	143.3:	0.167:	538/76 2.5
1996.8658	136.0:	0.189:	538/76 2.5
ADS 2436	Stt 52 AB	HD 20104	03175+6540
1984.8381	71.0	0.460	538/76 1.8
ADS 2463	See 23	HD 20610	03184−2231
1993.0923	259.7	0.310	549/22 4.0
1993.0977	259.6	0.310	549/22 4.0
AG +26°326	Cou 559	BD +25°531	03188+2617
1986.8889	95.5	0.686	NF 3.8
HR 1005	Cou 259	HD 20756	03212+2109
1982.7605	231.9	0.751	549/22 3.8
1982.7660	232.5	0.751	549/22 3.8
1984.9967	232.4	0.763	549/22 3.8
CD −36°1291	B 1449	HD 21434	03260−3558
1993.0978	22.5:	0.181:	549/22 4.0
ADS 2531	A 829	HD 21261	03261+1229
1996.8658	64.6	0.340	549/22 2.5
BD +28°532	CHR 9	HD 21242	03266+2843
1996.8658	58.0	0.256	549/22 2.5
ADS 2563	StF 389 AB	HD 21427	03302+5922
1982.7578	69.8	2.668	549/22 3.8
BD +36°721	Cou 1224	HD 278783	03333+3643
1987.7572	42.7	0.365	NF 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
HR 1071	CHR 117	HD 21794	03337+5752
1985.0076	138.4:	0.107:	549/22 3.8
1994.7034	70.3	0.142	549/22 3.8
1996.6965	94.8	0.136	549/22 2.5
HR 1093	B 52	HD 22262	03339−3105
1993.0978	337.9	0.064	549+467 4.0
HR 1099	V711 Tau	HD 22468	03368+0035
1996.1832	…	<0.035	549/22 4.0
AG +31°352	Cou 691	BD +31°637	03423+3141
1996.8658	203.9	0.095	538/76 2.5
BD −22°659	Rst 4759	HD 23305	03433−2217
1993.0977	231.0	0.131	549/22 4.0
ADS 2710	A 1289	HD 23006	03440+5228
1987.7545	60.8:	0.308:	NF 3.8
ADS 2745	A 1828	HD 23403	03450+0504
1986.8889	12.4	0.162	538/76 3.8
HR 1145	H 156	HD 23338	03453+2428[a]
1985.8488	…	<0.030	549/22 3.8
H 216	Cou 560	HD 23387	03456+2420[a]
1985.8405	0.2	0.247	549/22 3.8
1996.6968	359.0	0.151	549/22 2.5
ADS 2765	Stt 62	HD 23406	03489+6445
1986.8945	316.2	0.351	NF 3.8
1987.7545	318.5	0.348	538/76 3.8
ADS 2785	A 831	HD 23874	03489+1143
1986.8945	21.0	0.384	538/76 3.8
1987.7544	19.2	0.365	538/76 3.8
CPD−20°443	Rst 2324	BD −20°716	03494−1956
1993.0977	27.8	0.106	538/76 4.0
ADS 2811	A 1830	HD 24104	03513+2621
1988.6636	195.2	0.162	549/22 3.8
HR 1199	Kui 15	HD 24263	03520+0632
1993.0922	207.5	0.708	549/22 4.0
1996.8687	207.0	0.725	549/22 2.5
ADS 2849	A 1831 BC	BD +04°600	03545+0510
1987.7599	13.4:	0.113:	549/22 3.8
1996.8687	25.9	0.152	538/76 2.5
ADS 2911	Hu 27	HD 25034	03590+0947
1983.0472	298.3:	0.300:	549/22 3.8
1986.8864	302.6:	0.305:	538/76 3.8
ADS 2928	A 1937	HD 25248	04008+0505
1993.0923	36.1	0.149	549/22 4.0
ADS 2980	A 1710	HD 25693	04064+4325
1996.8713	320.7	0.590	549/22 2.5
BD +39°930	Cou 1394	HD 276063	04070+3934
1986.8862	113.1	0.246	NF 3.8
1996.8713	117.1:	0.340:	NF 2.5
BD −20°793	Rst 2333	HD 26347	04093−2025
1993.0977	151.4	0.115	549/22 4.0
ADS 3032	A 469	HD 26294	04093−0756
1996.8687	128.6	0.194	549/22 2.5
ADS 2963	StF 460	HD 25007–08	04100+8042
1984.9967	117.2	0.784	549/22 3.8
BD +31°718	Cou 880	HD 26385	04117+3133
1984.0522	43.8:	0.711:	549/22 3.8
BD +23°635	CHR 14	HD 284163	04119+2338
1986.8862	93.0:	0.126:	NF 3.8
ADS 3053	Stt 74	HD 26547	04123+0939
1993.0950	254.4:	0.084:	549/22 4.0
ADS 3064	A 1938	HD 26690	04136+0743
1996.8688	340.8	0.094	549/22 2.5
ADS 3072	Bu 547 AB	HD 26722	04139+0916
1982.7551	343.9:	1.224:	549/22 3.8
ADS 3060	Hu 212 AB	HD 26513	04142+5149
1986.8945	23.1:	0.535:	538/76 3.8
ADS 3098	StF 511	HD 26839	04179+5847
1997.1364	90.3	0.505	538/76 2.5
HR 1331	McA 14 Aa	HD 27176	04184+2135
1996.8689	156.8	0.120	549/22 2.5
1997.1364	148.1	0.123	549/22 2.5
ADS 3135	Stt 79	HD 27383	04199+1631[a]
1984.9998	154.6	0.157	549/22 3.8
1989.2266	238.0	0.250	549+467 3.8
CD −34°1622	I 724	HD 27470	04188−3407
1993.0897	193.1	0.088	549/22 4.0
BD −01°619	Rst 4769	HD 27516	04205−0119
1993.0924	199.4	0.197	549/22 4.0
ADS 3159	Bu 744 AB	HD 27710	04215−2544
1993.0897	346.0	0.458	549/22 4.0
ADS 3151	A 1835	HD 27597	04216+0658
1993.0950	342.3	0.156	549/22 4.0
1996.8687	350.3	0.159	549/22 2.5
ADS 3169	Stt 82 AB	HD 27691	04227+1503
1996.8712	345.9	1.328	549/22 2.5
ADS 3172	Stt 80	HD 27650	04236+4226
1996.8713	152.9	0.326	549/22 2.5
1997.1364	152.0	0.323	538/76 2.5
ADS 3182	Hu 304	HD 27820	04239+0928
1996.8688	334.7	0.111	549/22 2.5
ADS 3191	Bu 1235	HD 27832	04245+2244
1996.8712	62.3	0.239	549/22 2.5
HR 1391	Fin 342 Aa	HD 27991	04256+1556
1989.2292	201.9	0.071	467/16 3.8
1996.8688	154.4	0.087	549/22 2.5
ADS 3210	Bu 1185	HD 27989	04259+1852[a]
1989.2266	208.2	0.217	549+467 3.8
1996.8689	185.5	0.095	549/22 2.5
ADS 3228	Bu 1186	HD 28217	04275+1113
1996.8690	78.1	0.127	549/22 2.5
HR 1411	McA 15	HD 28307	04286+1558
1984.0604	354.1	0.169	549/22 3.8
1989.2266	355.2	0.168	549+467 3.8
1989.2292	350.5	0.162	549/22 3.8
ADS 3248	Hu 1080	HD 28363	04290+1610
1984.0577	260.5	0.429	549/22 3.8
1989.2266	258.2	0.442	549+467 3.8
1996.8716	253.0	0.140	549/22 2.5
1997.1365	248.0	0.131	549/22 2.5
BD −18°853	B 1937	HD 28637	04302−1747
1993.0923	46.0:	0.229:	538/76 4.0
ADS 3276	A 1838	BD +04°702	04308+0427
1994.8704	154.1	0.971	549/22 3.6
CD −24°2401	Rst 2347	HD 28845	04318−2407
1993.0923	310.2	0.132	549/22 4.0
ADS 3283	A 1839	HD 28619	04324+3849
1984.0524	271.1:	0.598:	538/76 3.8
1987.7600	270.7	0.600	538/76 3.8
HR 1465	B 2092 AB	HD 29305	04340−5503
1993.0896	156.7	0.312	549/22 4.0
BD +14°721	CHR 17	HD 285931	04340+1510
1986.8865	51.1:	0.185:	538/76 3.8
ADS 3300	A 1714	HD 28803	04344+4241
1986.8945	254.0:	0.405:	538/76 3.8
ADS 3317	CHR 18 Aa	HD 29140	04357+1010[b]
1996.8690	124.3	0.159	549/22 2.5
ADS 3326	A 1840 AB	HD 29196	04362+0814
1993.0950	81.2	0.148	549/22 4.0
1996.8690	66.7	0.135	549/22 2.5
ADS 3329	Stt 86	HD 29193	04366+1946
1994.8704	8.9	0.479	549/22 3.6
BD −05°978	Rst 4249	HD 29491	04385−0524
1989.9332	50.1:	0.503:	538/76 4.0
ADS 3358	Bu 1295 AB	HD 29316	04400+5328
1996.8689	168.8	0.261	549/22 2.5
1997.1364	168.1	0.265	549/22 2.5
ADS 3358	StF 566 AC	HD 29316	04400+5328[a]
1989.2294	219.5	0.736	549/22 3.8
1996.8689	199.5	0.780	549/22 2.5
1997.1364	198.9	0.777	549/22 2.5
vB 185	CHR 154	HD 29608	04404+1631[a]
1996.8689	29.2	0.621	538/76 2.5
BD −01°692	Rst 4772	HD 29708	04407−0112
1989.9332	294.3	0.599	538/76 4.0
ADS 3395	A 2424	HD 29839	04422+0259
1993.0924	41.2	0.105	549/22 4.0
1996.8716	44.9	0.129	549/22 2.5
HR 1497	McA 16 Aa	HD 29763	04422+2257
1996.8689	78.8	0.224	549/22 2.5
1997.1364	77.8	0.222	549/22 2.5
BD −21°953	Don 75	HD 29961–62	04425−2058
1993.0923	268.0	0.165	549/22 4.0
CD −49°1422	Rst 2356	HD 30184	04429−4859
1993.0896	59.7	0.372	538/76 4.0
ADS 3389	A 1014	HD 29599	04430+5712
1986.8945	322.1	0.280	538/76 3.8
1996.8716	349.5	0.327	538/76 2.5
ADS 3391	A 1013	HD 29606	04433+5931
1984.0522	29.6	0.076	549/22 3.8
BD +39°1054	Cou 1524	HD 29911	04445+3953
1984.0524	199.1:	0.178:	549/22 3.8
BD +61°729	Mlr 111	HD 29797	04457+6141
1987.7573	65.2	0.121	538/76 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
BD +42°1045	Cou 2031	HD 30090	04464+4221
1996.8689	147.0	0.183	549/22 2.5
1997.1364	147.8	0.195	549/22 2.5
ADS 3465	A 2621	HD 30636	04496+0212
1993.0924	89.9:	0.142:	549/22 4.0
BD +14°770	CHR 20	HD 30712	04506+1505
1996.8689	121.4	0.082	549/22 2.5
ADS 3475	Bu 883 AB	HD 30810	04512+1104
1996.8690	47.6	0.258	549/22 2.5
CD −35°1962	Fin 320	HD 31093	04515−3454
1993.0896	46.4	0.240	549/22 4.0
ADS 3483	Bu 552 AB	HD 30869	04518+1339
1989.2266	172.5	0.414	549+467 3.8
1996.8690	211.9	0.469	549/22 2.5
ADS 3501	CHR 127 Aa	HD 31033	04536+2522
1996.8716	147.6	0.199	549/22 2.5
BD −03°928	Rst 5501	HD 31297	04545−0314
1993.0924	28.1	0.202	549/22 4.0
1996.8716	14.9	0.149	549/22 2.5
ADS 3522	A 1019 AB	HD 31356	04551−0033
1993.0924	127.5:	0.156:	538/76 4.0
BD −04°973	Rst 4257 AB	HD 31375	04553−0352
1993.0923	322.0	0.221	538/76 4.0
ADS 3542	Stt 91	HD 31466	04562+0311
1986.8945	233.5:	0.412:	538/76 3.8
1996.8716	223.7	0.361	549/22 2.5
ADS 3558	A 2624	HD 31622	04574+0100
1989.9332	124.4:	0.324:	538/76 4.0
ADS 3536	D 5 AB	HD 31278	04573+5345
1982.7579	232.4	0.467	549/22 3.8
1985.8434	229.7	0.483	549/22 3.8
CD −40°1666	Rst 5210	HD 31986	04582−4033
1993.0896	37.9:	0.256:	538/76 4.0
BD +67°360	Mlr 398	HD 31150	04586+6725
1987.7573	309.8	0.153	538/76 3.8
ADS 3588	Bu 314 AB	HD 31925	04590−1622
1993.0923	328.3	0.679	549/22 4.0
1996.1804	326.6	0.746	549/22 4.0
1996.8634	326.3	0.748	549/22 2.5
ADS 3573	A 1303	HD 31578	04599+5327
1996.8663	292.2	0.168	549/22 2.5
BD +69°288	Mlr 399 AB	HD 31264	05001+6958
1984.0524	353.2:	0.254:	549/22 3.8
1986.8837	350.2	0.248	538/76 3.8
ADS 3589	CHR 159 Aa	HD 31761	05003+3924[a]
1996.8662	76.8	0.098	549/22 2.5
ADS 3610	A 2629	HD 32222	05010−1112
1993.0923	207.6	0.108	549/22 4.0
1996.8634	201.2	0.116	549/22 2.5
ADS 3614	Hu 445	HD 32127	05017+2050
1996.8635	295.7	0.438	549/22 2.5
ADS 3652	A 2632	HD 32541	05041+0257
1993.0924	124.1	0.918	538/76 4.0
HR 1589	Stt 89	HD 31590	05047+7404
1984.0604	299.2	0.464	549/22 3.8
1986.8947	298.8	0.448	549/22 3.8
BD +13°790	Hei 104	HD 32595	05048+1319
1986.8837	0.6	0.206	538/76 3.8
ADS 3659	A 1023	HD 32416	05055+4655
1996.8663	59.4	0.297	549/22 2.5
BD +22°818	Stt 97	HD 32641	05056+2304
1986.8947	151.4:	0.352:	549/22 3.8
1996.8661	150.9	0.362	549/22 2.5
BD −19°1102	Fin 376	HD 33095	05072−1924
1993.0923	49.5	0.117	549/22 4.0
1996.8634	50.6	0.112	549/22 2.5
ADS 3711	Stt 98	HD 33054	05079+0830
1986.8945	359.6	0.674	549/22 3.8
1993.0950	339.9	0.698	549/22 4.0
1996.8635	329.6	0.721	549/22 2.5
CP −57°1096	Rst 124 AB	HD 33670	05085−5659
1989.9388	141.9	0.640	538/76 4.0
BD +37°1053	Cou 1531	HD 32949	05085+3755
1996.8662	68.6	0.289	549/22 2.5
BD +36°1023	Cou 1533	HD 33153	05099+3617
1996.8662	255.3	0.186	549/22 2.5
ADS 3748	A 484	HD 33507	05103−0736
1993.0923	305.5	0.205	549/22 4.0
1996.8634	298.2	0.175	549/22 2.5
ADS 3734	StF 644 AB	HD 33203	05103+3718
1984.0549	221.9	1.629	549/22 3.8
BD +39°1200	Cou 1868	HD 277703	05115+3938
1996.8662	190.6	0.503	549/22 2.5
ADS 3767	Hu 33	HD 33647	05117+0031
1993.0924	357.0	0.124	549/22 4.0
1996.1832	353.2	0.130	549/22 4.0
1996.8634	352.1	0.126	549/22 2.5
ADS 3764	StF 652	HD 33646	05118+0102
1983.0692	180.8	1.708	549/22 3.8
ADS 3785	A 2701	HD 33777	05130+0828
1987.7601	5.8	0.478	549/22 3.8
1996.8634	8.4	0.486	538/76 2.5
ADS 3847	A 2638	HD 34211	05159+0345
1989.9386	93.9:	1.005:	538/76 4.0
ADS 3857	A 844	HD 34307	05164−0139
1993.0924	167.0	0.167	549/22 4.0
1996.8634	175.5	0.175	549/22 2.5
HR 1708	AnJ 1 Aa	HD 34029	05167+4600
1984.0604	0.6	0.047	549+467 3.8
1996.8662	10.6	0.053	467+549 2.5
1997.1254	213.9	0.057	549/22 2.5
ADS 3880	A 2639	HD 34501	05181+0342
1986.8892	287.9:	0.797:	538/76 3.8
1989.9386	283.9	0.796	538/76 4.0
BD +43°1251	Cou 2365	BD +43°1251	05210+4408
1996.8662	197.0	0.311	NF 2.5
CPD −81°142	Rst 2387	HD 37134	05222−8102
1989.9360	120.8	0.627	549/22 4.0
ADS 3991	A 847 BC	HD 35317	05239−0052
1993.0924	139.3	0.312	549/22 4.0
ADS 3997	A 2703	HD 35365	05246+0910
1986.8892	104.0:	0.220:	538/76 3.8
1993.0950	91.5:	0.167:	549/22 4.0
CPD −52°718	I 345 AB	HD 35860	05248−5219
1993.0896	29.7	0.104	549/22 4.0
CPD −58°506	I 390	HD 35977	05249−5810
1989.9359	344.2	0.157	538/76 4.0
1993.0896	349.0	0.134	538/76 4.0
ADS 4020	A 848	HD 35548	05255−0033
1988.2545	159.9:	0.224:	538/76 3.8
1993.0924	167.6	0.250	549/22 4.0
CPD −64°447	I 1150	HD 36401	05267−6436
1989.9360	288.2:	0.187:	538/76 4.0
ADS 4038	McA 19 Aa	HD 35671	05272+1758
1997.1255	70.1	0.069	549/22 2.5
BD −21°1173	See 53	HD 35973	05276−2055
1993.0923	328.9	0.116	549/22 4.0
BD +42°1292	Cou 2367	HD 278191	05282+4253
1996.8662	326.7	0.403	549/22 2.5
ADS 4078	Da 6	HD 36058	05289−0318
1983.0613	191.9	0.161	549/22 3.8
1993.0923	230.2	0.140	549/22 4.0
1996.1832	241.6	0.146	549/22 4.0
1996.8634	245.0	0.145	549/22 2.5
1997.1310	247.2	0.145	549/22 2.5
CD −32°2381	B 1946	HD 36399	05301−3228
1993.0897	181.5	0.203	538/76 4.0
CD −47°1886	I 62 AB	HD 36610	05305−4713
1989.9388	178.4	0.795	538/76 4.0
ADS 4115	StF 728	HD 36267	05308+0557
1984.9969	48.6	1.002	549/22 3.8
ADS 4117	A 2646 AB	HD 36310	05310+0440
1986.8892	131.5:	0.187:	538/76 3.8
1989.9385	129.5:	0.178:	538/76 4.0
1993.0924	126.6	0.179	549/22 4.0
ADS 4136	A 2509	HD 36511	05323+0217
1986.8892	141.2:	0.413:	538/76 3.8
1993.0924	140.0	0.420	538/76 4.0
HR 1897	CHR 249 Aa	HD 37041	05354−0525
1997.1310	111.6	0.379	549/22 2.5
HR 1889	CHR 203	HD 36994	05365+2556
1997.1255	99.7:	0.137:	549/22 2.5
ADS 4208	StF 749 AB	HD 37098	05371+2655
1997.1255	324.2	1.135	549/22 2.5
ADS 4203	A 1562	HD 36928	05372+4339
1984.0551	351.4	0.405	549/22 3.8
BD +43°1315	CHR 21	HD 36948	05373+4404
1996.8718	53.6:	0.115:	549/22 2.5
1997.1254	54.9	0.118	549/22 2.5
ADS 4224	A 2708	HD 37300	05379+0857
1986.8918	305.5	0.590	538/76 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 4215	Hu 557	HD 37031	05384+5105
1986.8893	283.3:	0.423:	538/76 3.8
ADS 4229	Bu 1240 AB	HD 37269	05386+3030
1996.8718	351.5	0.174	549/22 2.5
1997.1255	350.3	0.174	549/22 2.5
ADS 4236	A 1564	HD 37265	05394+4343
1997.1254	147.9	0.186	538/76 2.5
ADS 4243	Stt 112	HD 37384	05399+3757
1984.7073	52.4	0.861	549/22 3.8
ADS 4249	Hu 825	HD 37405	05401+3601
1985.8407	345.8	0.390	549/22 3.8
ADS 4265	Bu 1007	HD 37711	05413+1632
1984.1888	239.5	0.336	549/22 1.8
1984.8384	239.4	0.336	549/22 1.8
1996.8717	242.5	0.298	549/22 2.5
1997.1255	242.8	0.295	549/22 2.5
ADS 4299	A 494 AB	HD 38089	05429−0648
1988.2546	180.9:	0.106:	538/76 3.8
1991.8969	242.8:	0.160:	549/22 3.8
1993.0979	256.3	0.172	549/22 4.0
1996.1833	274.5	0.192	549/22 4.0
1996.8717	278.5	0.172	549/22 2.5
1997.1310	281.2	0.162	549/22 2.5
ADS 4304	A 117	HD 38068	05436+1300
1984.9969	250.7	0.793	538/76 3.8
1997.1255	247.8:	0.806:	538/76 2.5
ADS 4309	A 2653	HD 38155	05438+0103
1986.8918	106.5:	0.271:	538/76 3.8
ADS 4320	A 2654	HD 38203	05442+0058
1993.0951	3.0:	0.097:	549/22 4.0
HR 1989	CHR 160	HD 38545	05472+1429
1995.7686	193.4	0.171	549/22 2.5
1996.8717	192.5	0.168	549/22 2.5
1997.1311	192.6	0.168	549/22 2.5
HR 2001	McA 22	HD 38735	05474−1032
1988.2545	294.1:	0.178:	538/76 3.8
1993.0980	295.7	0.169	549/22 4.0
1996.1833	298.8	0.153	549/22 4.0
1996.8717	301.7	0.155	549/22 2.5
1997.1310	302.8	0.151	549/22 2.5
ADS 4390	StF 795	HD 38710	05480+0627
1984.7073	215.5	1.197	549/22 3.8
ADS 4396	A 2657	HD 38769	05482+0137
1993.0951	185.7	0.198	549/22 4.0
1997.1311	195.2	0.206	549/22 2.5
BD +29°1028	Cou 898	HD 39303	05529+2907
1984.0634	155.6:	0.158:	538/76 3.8
ADS 4480	A 2919 AB	HD 39558	05534−0333
1993.0979	341.6	0.225	549/22 4.0
BD +29°1330	Cou 1240	HD 262951	06452+2913
1986.8866	85.0	0.481	NF 3.8
ADS 5415	A 2457	HD 48588	06462+4203
1986.8948	5.2	0.429	538/76 3.8
1987.2719	7.2	0.420	538/76 3.8
ADS 5400	StF 948 AB	HD 48250	06462+5927
1983.0668	80.8	1.807	549/22 3.8
1986.8948	77.8	1.811	549/22 3.8
BD −02°1766	Rst 4320	HD 49249	06474−0225
1993.0898	82.5:	0.180:	538/76 4.0
ADS 5447	Stt 156	HD 49059	06474+1812
1984.9999	236.7	0.407	549/22 3.8
ADS 5455	Stt 157	HD 49294	06478+0020
1988.2548	200.4:	0.363:	538/76 3.8
ADS 5470	B 703	HD 49575	06480−2632
1993.0953	59.1	0.155	549/22 4.0
ADS 5477	A 2935	HD 49572	06485−1226
1993.0898	45.9	0.126	538/76 4.0
HR 2521	Fin 322	HD 49643	06493−0216
1993.0898	39.4	0.135	549/22 4.0
1997.1256	22.8	0.120	549/22 2.5
ADS 5498	Bu 324 AB	HD 49891	06497−2405
1983.0667	216.2	1.624	549/22 3.8
BD +36°1511	Cou 1738	HD 49472	06502+3624
1996.8718	153.4	0.103	538/76 2.5
BD +24°1417	Cou 768	HD 49622	06503+2409
1996.8719	180.6	0.140	538/76 2.5
ADS 5493	A 1573	HD 49445	06515+5412
1986.8866	82.7	0.349	NF 3.8
ADS 5526	A 2830	HD 50086	06517+0022
1993.0900	339.3:	0.275:	538/76 4.0
HR 2541	Cou 1877	HD 50037	06532+3826
1989.2377	160.2:	0.464:	549/22 3.8
HR 2565	CHR 169	HD 50644	06533−1902
1996.1833	143.3	0.135	549/22 4.0
1996.8719	146.3:	0.110:	549/22 2.5
CPD −62°732	Fin 100	HD 51685	06542−6228
1993.0952	133.4	0.190	538/76 4.0
ADS 5616	A 2936	HD 51378	06567−0848
1993.0898	254.4	0.421	549/22 4.0
CD −49°2532	Rst 5253	HD 52118	06573−4929
1993.0953	325.5	0.210	538/76 4.0
HR 2612	I 65	HD 51825	06573−3530
1993.0953	49.6	0.105	549/22 4.0
ADS 5586	Stt 159 AB	HD 50522	06573+5825
1995.9242	214.0	0.267	549/22 2.5
1996.8718	217.2	0.316	549/22 2.5
1997.1257	217.7	0.329	549/22 2.5
ADS 5625	A 2681	HD 51449	06575+0253
1986.8948	143.1	0.322	538/76 3.8
1997.1256	138.3	0.364	538/76 2.5
BD +02°1483	CHR 25	HD 51566	06580+0218[a]
1983.0695	40.4	0.938	549/22 3.8
1989.9445	38.8:	0.921:	549/22 4.0
1993.0900	37.7	0.911	549/22 4.0
BD +65°550	Mlr 133	HD 50452	06582+6516
1988.2572	3.8:	0.074:	549/22 3.8
ADS 5664	I 765	HD 52165	06592−2123
1993.0897	317.2	0.586	549/22 4.0
ADS 5660	A 2461 AB	HD 51911	06598+1556
1984.0580	327.0	0.320	549/22 3.8
ADS 5687	Fin 334 Aa	HD 52437	07003−2207
1993.0897	8.8	0.063	549/22 4.0
ADS 5689	Stt 163 AB	HD 52309	07012+1146
1996.8719	97.5	0.159	549/22 2.5
1997.1256	98.5	0.164	538/76 2.5
ADS 5703	A 671	BD −08°1674	07013−0906
1993.0898	35.8	0.252	538/76 4.0
BD +21°1471	CHR 215	HD 52422	07021+2148
1996.8719	255.4	0.108	538/76 2.5
BD −15°1618	Rst 3484	HD 53089	07031−1611
1993.0897	41.0:	0.245:	538/76 4.0
BD +37°1645	McA 29	HD 52823	07043+3734
1987.2690	179.4	0.180	549/22 3.8
1996.8718	182.2	0.204	549/22 2.5
1997.1257	183.8	0.204	549/22 2.5
BD −10°1848	Rst 3489	HD 53367	07044−1027
1984.9972	297.1	0.649	538/76 3.8
ADS 5752	A 519	HD 53299	07043−0303
1993.0898	271.2:	0.361:	538/76 4.0
CPD −27°1695	Rst 5255	CD −27°3605	07049−2725
1993.0953	196.9	0.175	538/76 4.0
CD −33°3478	Jsp 132 AB	HD 53891	07053−3409
1993.0953	342.0	0.203	549/22 4.0
BD −18°1681	Rst 2453	HD 53911	07061−1843
1993.0897	242.9	0.107	538/76 4.0
ADS 5795	Bu 328 AB	HD 53974	07067−1118
1984.1807	116.4	0.569	549/22 1.8
1984.1890	116.3	0.566	549/22 1.8
1996.1833	115.6	0.569	549/22 4.0
1996.8719	115.8	0.566	549/22 2.5
1997.1256	115.2	0.565	549/22 2.5
BD +35°1554	Cou 1740	HD 53636	07074+3532
1986.8894	276.7:	0.351:	538/76 3.8
ADS 5814	A 3043	HD 54336	07079−1542
1993.0897	306.0	0.245	549/22 4.0
BD +16°1395	Hei 125	HD 54128	07083+1638
1996.8636	218.9	0.241	549/22 2.5
BD +19°1624	CHR 216	HD 54322	07092+1903
1996.8636	330.4	0.168	549/22 2.5
CD −33°3541	B 1530	HD 54915	07093−3319
1993.0953	342.7	0.163	538/76 4.0
ADS 5859	A 3045	BD −17°1827	07113−1719
1993.0897	263.3	0.241	538/76 4.0
ADS 5857	A 2122	HD 55118	07113−1032
1993.0898	69.5	0.112	549/22 4.0
ADS 5855	A 1961	HD 55058	07114−0025
1993.0900	97.8:	0.210:	538/76 4.0
CD −51°2352	I 1504	HD 55788	07117−5118
1993.0952	114.0	0.114	549/22 4.0
BD +20°1729	Cou 925	HD 54985	07118+1953
1984.0525	80.9:	0.486:	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 5866	AG 331	BD +18°1524	07123+1839
1988.2574	194.8:	0.637:	538/76 3.8
ADS 5871	StF 1037 AB	HD 55130	07128+2713
1984.1890	320.0	1.261	549/22 1.8
1989.2377	317.9	1.232	538/76 3.8
HR 2745	Fin 323	HD 56014	07143−2621
1993.0953	144.6	0.133	549/22 4.0
BD −01°1612	Rst 4843	HD 55899	07148−0123
1993.0898	140.2	0.396	549/22 4.0
ADS 5918	Bu 1023	HD 55726	07151+2553
1985.0000	304.8:	0.446:	538/76 3.8
BD +19°1661	CHR 217	HD 55823	07153+1849
1996.8636	349.0	0.138	549/22 2.5
ADS 5956	A 2123 AB	HD 56593	07171−1202
1985.0000	147.1:	0.276:	549/22 3.8
1993.0898	159.4	0.386	549/22 4.0
1996.1808	162.2	0.402	549/22 4.0
BD +26°1508	CHR 218	HD 56176	07171+2641
1996.8636	244.0	0.140	549/22 2.5
1997.1257	244.8	0.138	549/22 2.5
BD +24°1600	Cou 585	HD 56462	07181+2405
1983.0476	156.4	0.388	549/22 3.8
AG +38°809	Cou 2069	BD +38°1732	07190+3804
1986.8894	121.1	0.376	NF 3.8
1988.2573	122.2:	0.370:	549/22 3.8
ADS 6001	A 1963	HD 57293	07206−0136
1993.0898	267.9	0.287	549/22 4.0
BD +14°1649	Hei 128	HD 57675	07227+1417
1996.8635	50.8	0.165	549/22 2.5
CD −45°3181	Rst 4851	HD 59030	07260−4601
1989.9388	210.4:	0.144:	538/76 4.0
1993.0953	209.9	0.125	538/76 4.0
BD +69°422	Mlr 409	HD 57308	07264+6929
1986.8894	347.3:	0.362:	538/76 3.8
HR 2837	CHR 26	HD 58579	07269+2015
1987.2689	207.7	0.055	549/22 3.8
ADS 6089	McA 30 Aa	HD 58728	07277+2127
1997.1259	348.1	0.094	549/22 2.5
ADS 6119	McA 31 Aa	HD 59148	07298+2755
1987.2690	193.5	0.045	549/22 3.8
ADS 6138	A 2869	HD 59473	07305+0743
1985.0000	19.8:	0.142:	538/76 3.8
1993.0900	326.5:	0.070:	549/22 4.0
1996.1836	231.9:	0.053:	549/22 4.0
CD −35°3659	Rst 4855	HD 60312	07324−3558
1989.9390	160.4:	0.051:	549/22 4.0
1990.9137	190.0	0.051	549/22 4.0
1993.0927	299.5	0.044	549/22 4.0
CD −28°4515	B 1066	HD 60463	07334−2843
1993.0927	61.4	0.178	549/22 4.0
HR 2886	McA 32	HD 60107	07336+1550
1987.2690	273.7	0.167	549/22 3.8
1988.2520	272.6	0.152	467+549 3.8
1996.8635	99.6	0.131	549/22 2.5
1997.1312	98.3	0.137	549/22 2.5
CD −25°4727	…	HD 60683	07347−2602
1996.1807	…	<0.035	549/22 4.0
ADS 6185	Stt 175 AB	HD 60318	07351+3058
1996.8638	146.0	0.150	549/22 2.5
1997.1257	146.0	0.151	549/22 2.5
AG +17°794	Cou 476	BD +17°1619	07359+1709
1996.8636	98.3	0.317	538/76 2.5
CD −27°4310	B 730	HD 61209	07371−2725
1993.0927	266.1	0.237	549/22 4.0
HR 2937	Fin 324 AB, C	HD 61330	07374−3458
1993.0927	27.6	0.445	549/22 4.0
ADS 6248	Daw 89	HD 61446	07383−2654
1993.0927	242.2	0.177	549/22 4.0
BD +28°1427	Cou 1247	HD 61034	07385+2819
1996.8638	103.8	0.107	549/22 2.5
1997.1312	108.0	0.113	538/76 2.5
ADS 6260	A 2532	HD 61526	07397+0117
1997.1313	272.4:	0.439:	538/76 2.5
ADS 6263	StF 1126 AB	HD 61563	07401+0514
1997.1312	169.4	0.911	549/22 2.5
BD +65°586	Hei 132	HD 61250	07429+6517
1986.8894	73.5:	0.447:	538/76 3.8
ADS 6313	A 2534 AB, C	HD 62264	07431+0011
1983.0504	228.7	0.816	549/22 3.8
1984.1807	229.7	0.811	549/22 1.8
1996.1808	232.3	0.838	549/22 4.0
1996.8719	232.4	0.832	549/22 2.5
1997.1313	232.7	0.833	549/22 2.5
CD −26°4850	B 737	HD 62556	07435−2711
1993.0927	241.1	0.133	549/22 4.0
BD −10°2187	Rst 3542	HD 62515	07439−1104
1989.9363	180.1:	0.210:	538/76 4.0
ADS 6333	Hu 51 AB	HD 62632	07446−1219
1989.9363	49.9	0.945	538/76 4.0
BD −09°2205	Rst 1364	HD 62725	07452−1017
1993.0925	155.4	0.234	538/76 4.0
BD −03°2065	Rst 4375	HD 63263	07478−0332
1993.0925	306.3	0.116	549/22 4.0
ADS 6378	WRH 15 AB	HD 63208	07486+2308
1987.2690	47.3	0.275	549/22 3.8
ADS 6405	A 2880	HD 63799	07508+0317[b]
1991.9052	32.0	0.051	549/22 3.8
1992.3124	49.7:	0.071:	549/22 3.8
1993.0925	54.9	0.059	549/22 4.0
1993.1968	51.3:	0.073:	549/22 3.8
1995.1492	76.4	0.082	549/22 2.5
1996.1836	85.8	0.088	549/22 4.0
1996.8693	103.0	0.098	549/22 2.5
1997.1313	101.3	0.095	549/22 2.5
ADS 6412	Bu 1195	HD 63976	07513−0924
1993.0925	93.5	0.149	549/22 4.0
ADS 6420	Bu 101	HD 64096	07518−1354
1993.0927	297.4	0.532	549/22 4.0
1996.1754	305.2	0.416	549/22 4.0
1996.8719	307.9	0.382	549/22 2.5
ADS 6424	Hu 53	HD 64196	07524−1139
1989.9363	145.6	0.489	538/76 4.0
1993.0925	146.2	0.503	549/22 4.0
CD −37°4006	Rst 4867	HD 64547	07528−3746
1993.0927	253.5	0.201	538/76 4.0
CPD −63°832	Rst 293	HD 65192	07536−6346
1993.0929	49.3	0.277	538/76 4.0
AG +13°772	Hei 55	BD +14°1778	07540+1346
1996.8691	347.4	0.096	538/76 2.5
ADS 6443	A 675	HD 64326	07546+3100
1996.8638	173.2	0.152	549/22 2.5
1997.1312	174.5	0.161	538/76 2.5
ADS 6483	Stt 185	HD 65123	07573+0108
1993.0925	140.9	0.140	549/22 4.0
1996.8719	165.9	0.163	549/22 2.5
1997.1313	167.0	0.166	549/22 2.5
ADS 6500	Hld 93 AB	HD 65647	07594−1029
1989.9363	180.9	0.868	538/76 4.0
CD −49°3271	Rst 5278	HD 66407	08011−4952
1993.0928	238.2	0.179	538/76 4.0
ADS 6526	A 1580	HD 66094	08017−0836
1993.0925	272.6	0.253	538/76 4.0
1996.1808	276.0	0.261	549/22 4.0
ADS 6538	Stt 186	HD 66176	08033+2616
1984.0526	74.2	0.966	549/22 3.8
BD −11°2217	Rst 3565	HD 66535	08036−1204
1989.9363	87.9:	0.322:	538/76 4.0
ADS 6554	Bu 581 AB	HD 66509	08044+1217
1986.8839	277.5	0.555	538/76 3.8
1988.2576	282.6	0.535	549/22 3.8
ADS 6552	A 2050 AB	HD 66263	08047+4717
1996.8638	77.7	0.124	538/76 2.5
ADS 6548	A 1073	HD 66045	08050+5825
1986.8868	170.2	0.204	NF 3.8
1996.8638	151.5	0.293	538/76 2.5
1997.1311	153.8	0.310	538/76 2.5
ADS 6581	A 2541	HD 66873	08065+2553
1984.1783	356.0	0.765	550/89 1.8
ADS 6623	CHR 190 Aa	HD 67501	08095+3213[a]
1996.8638	115.0	0.062	549/22 2.5
CD −26°5599	B 758	HD 68022	08098−2654
1993.0927	185.2	0.233	538/76 4.0
ADS 6650	StF 1196 AB	HD 68256–57	08122+1739
1984.1891	243.0	0.650	549/22 1.8
1984.8442	236.0	0.638	538/76 1.8
1996.8665	106.3	0.727	538/76 2.5
1997.1312	104.4	0.738	549/22 2.5
HR 3234	See 96 Aa, B	HD 68895	08125−4616
1993.0928	272.5	0.558	549/22 4.0
1996.1781	272.3	0.571	549/22 4.0
HR 3234	CHR 143 Aa	HD 68895	08125−4616
1993.0928	177.0	0.075	549/22 4.0

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1996.1781	186.8	0.067	549/22 4.0
BD +29°1712	Cou 1114	HD 68254	08126+2849
1996.8639	223.0	0.172	549/22 2.5
CPD −63°909	Rst 310	HD 69362	08128−6359
1993.0929	186.2	0.126	549/22 4.0
BD −13°2439	Hu 115	BD −13°2439	08132−1354
1993.0925	180.6	0.527	538/76 4.0
BD −18°2229	B 1979	HD 68818	08135−1851
1993.0927	71.3	0.208	549/22 4.0
ADS 6671	Bu 1244	HD 68706	08138+0159
1989.9446	17.0:	0.882:	538/76 4.0
1993.0925	12.9	0.970	549/22 4.0
CD −45°3914	Fin 113 AB	HD 69302	08144−4550
1993.0928	324.9	0.051	549/22 4.0
CD −46°3948	Rst 4881	HD 69384	08147−4708
1993.0928	146.2	0.187	549/22 4.0
BD +16°1671	Hei 140	HD 68934	08152+1550
1996.8665	1.0	0.332	538/76 2.5
1997.1312	0.8:	0.353:	538/76 2.5
ADS 6697	A 546 AB	HD 69155	08155−0707
1989.9445	78.9:	0.490:	538/76 4.0
AG +21°915	Cou 279	BD +21°1798	08155+2124
1986.8867	121.0	0.119	NF 3.8
BD −10°2443	Rst 3578	HD 69247	08158−1027
1993.0925	81.1	0.194	538/76 4.0
ADS 6719	A 337 AB	HD 69526	08173−0522
1989.9445	87.2	0.458	538/76 4.0
ADS 6735	I 795	HD 69878	08181−2700
1993.0927	223.8	0.071	549/22 4.0
HR 3269	Fin 346	HD 70013	08198+0357
1984.1891	72.4	0.266	550+549 1.8
1996.1808	65.2	0.262	549/22 4.0
1996.8665	64.5	0.258	549/22 2.5
1997.1313	64.5	0.259	549/22 2.5
CD −36°4506	Rst 4885	HD 70504	08210−3636
1993.0927	341.2	0.201	549/22 4.0
CD −29°6041	B 1600	HD 70725	08225−2942
1983.0477	273.9	0.322	549/22 3.8
ADS 6786	A 2960	HD 70721	08237+0732
1993.0925	94.9	0.232	549/22 4.0
CD −40°4230	Rst 3592	HD 71383	08255−4058
1993.0927	16.0	0.113	538/76 4.0
AG +17°902	Cou 953	BD +18°1942	08264+1749
1996.8665	32.3	0.851	538/76 2.5
ADS 6811	A 1746 BC	HD 71153	08267+2432
1987.2664	17.9	0.157	538/76 3.8
CPD −54°1647	Fin 116	HD 71919	08275−5501
1993.0928	8.1	0.074	549/22 4.0
ADS 6825	A 550	HD 71499	08277−0425
1993.0925	167.6	0.160	549/22 4.0
1996.1808	157.6	0.140	549/22 4.0
1996.8666	155.7	0.132	549/22 2.5
HR 3343	Fin 314 Aa	HD 71801	08280−3507
1993.0927	65.6	0.099	549/22 4.0
ADS 6828	A 551 AB	HD 71663	08285−0231
1993.0925	218.6	0.068	549/22 4.0
1996.1808	235.3	0.138	549/22 4.0
1996.8666	236.9	0.150	549/22 2.5
1997.1313	236.4	0.155	549/22 2.5
ADS 6862	I 489	HD 72310	08315−1935
1993.0981	330.1	0.243	549/22 4.0
1996.1808	321.5	0.262	549/22 4.0
1996.8666	319.8	0.262	549/22 2.5
CD −25°6205	I 807	HD 72397	08317−2601
1983.0477	6.8	0.331	549/22 3.8
ADS 6864	Hu 717	HD 72170	08326+3227
1986.8867	54.9	0.488	538/76 3.8
CD −32°5465	Fin 335	HD 72954	08345−3236
1993.0956	174.9	0.140	549/22 4.0
CD −43°4432	B 1616	HD 73124	08350−4341
1993.0955	110.1:	0.234:	538/76 4.0
AG +28°921	Cou 1115	BD +28°1625	08352+2811
1996.8639	26.8	0.262	NF 2.5
1997.1312	25.1	0.275	538/76 2.5
CD −43°4449	B 1617	HD 73270	08358−4345
1993.0955	114.9	0.201	538/76 4.0
ADS 6914	Bu 208 AB	HD 73752	08391−2240
1984.1892	16.8	0.483	549/22 1.8
ADS 6912	A 3063 AB	HD 73716	08392−1602
1983.0477	300.9	0.396	549/22 3.8
KW 212	CHR 156 Da	HD 73598	08399+1933[a]
1996.8663	233.9:	0.505:	549/22 2.5
1997.1315	232.2	0.510	549/22 2.5
KW 284	CHR 130	HD 73712	08403+1921[a]
1994.8707	160.4	0.094	549/22 3.6
1996.8663	161.0	0.106	549/22 2.5
1997.1315	160.3	0.107	549/22 2.5
CD −35°4930	B 1986	HD 74103	08407−3604
1993.0956	334.9	0.144	538/76 4.0
ADS 6932	A 3065	HD 74021	08409−1720
1983.0477	273.6:	0.311:	549/22 3.8
1993.0981	280.4	0.309	549/22 4.0
ADS 6930	Bu 585	HD 73871	08413+2029
1987.2690	86.2	0.484	549/22 3.8
ADS 6936	A 1750	HD 74113	08420−0109
1996.8665	32.8	0.146	538/76 2.5
BD −11°2437	Rst 3603	HD 74333	08431−1225
1993.0981	359.0	0.306	549/22 4.0
ADS 6950	A 1752	HD 74133	08439+4403
1996.8638	252.2	0.316	538/76 2.5
ADS 6964	A 552	HD 74469	08441−0412
1993.0983	29.1	0.196	549/22 4.0
1996.8666	34.6	0.224	549/22 2.5
ADS 6976	A 2548	HD 74687	08454−0013
1996.8665	129.5:	0.121:	538/76 2.5
ADS 6989	Hu 120	HD 74861	08462−1422
1996.8666	288.3	0.289	549/22 2.5
CPD −52°1652	Hu 1590	HD 75202	08464−5251
1993.0955	333.8	0.086	549/22 4.0
ADS 6993	Sp 1 AB	HD 74874	08468+0625
1996.1836	165.3	0.270	549/22 4.0
1996.8665	162.4	0.271	549/22 2.5
1997.1367	175.0	0.275	549/22 2.5
ADS 6999	Bu 586	HD 75098	08474−1703
1993.0981	145.4	0.123	549/22 4.0
1996.8666	169.8	0.119	549/22 2.5
BD +00°2392	Rst 5306	HD 75012	08476+0005
1993.0983	33.6	0.130	549/22 4.0
1996.8665	35.8	0.104	549/22 2.5
BD +19°2105	Cou 956	HD 75034	08481+1836
1996.8665	26.8:	0.329:	538/76 2.5
1997.1315	30.2	0.289	538/76 2.5
ADS 7012	A 2552	HD 75207	08487+0057
1993.0983	87.7	0.186	549/22 4.0
1996.1836	75.1	0.214	549/22 4.0
1996.8665	72.4	0.218	549/22 2.5
BD +21°1926	Cou 588	HD 75557	08514+2105
1987.2690	335.7	0.414	549/22 3.8
CD −30°6904	B 1633	HD 75884	08517−3109
1993.0956	238.9	0.238	538/76 4.0
CD −36°5125	Fin 296	HD 76072	08526−3633
1993.0956	63.8	0.055	549/22 4.0
ADS 7054	A 1584	HD 75553	08531+5457
1987.2690	358.7	0.135	549/22 3.8
1993.2025	52.1:	0.371:	549/22 3.8
1994.2236	57.5:	0.431:	549/22 2.5
1996.8638	64.6	0.479	549/22 2.5
HR 3551	Fin 316	HD 76360	08538−4731
1993.0955	27.8	0.057	549/22 4.0
ADS 7074	A 2554	HD 76050	08539+0149
1996.1836	321.1	0.308	549/22 4.0
1996.8665	319.6	0.311	549/22 2.5
BD +20°2232	Cou 773	HD 75974	08539+1958
1987.2690	43.2	0.223	549/22 3.8
ADS 7077	A 1754	HD 76119	08542−0229
1996.8666	107.7:	0.288:	538/76 2.5
ADS 7071	StF 1291 AB	HD 75959	08542+3035
1997.1315	312.8	1.506	549/22 2.5
ADS 7082	A 2131 AB	HD 76095	08549+2612
1987.2690	201.3	0.392	549/22 3.8
1996.8663	240.1	0.377	549/22 2.5
1997.1315	241.2	0.370	549/22 2.5
ADS 7084	A 2132	HD 76117	08557+4141
1987.2690	202.4	0.182	549/22 3.8
ADS 7067	StF 1280 AB	HD 75632	08554+7048[a]
1983.0642	128.7	1.200	549/22 3.8
BD +36°1889	Cou 1897	HD 76595	08585+3548
1984.0609	166.8	0.179	549/22 3.8
1987.2690	172.5	0.169	549/22 3.8
1996.8638	198.6	0.137	549/22 2.5
1997.1315	194.6:	0.123:	538/76 2.5

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 7113	A 1974	HD 76720	08587+2523	HR 3794	Fin 349	HD 82543	09327+0152
1996.8663	198.9	0.200	549/22 2.5	1993.0983	204.5	0.135	549/22 4.0
1997.1315	198.1	0.208	538/76 2.5	1996.1836	224.7	0.123	549/22 4.0
ADS 7117	Hu 861	HD 76793	08588+1414	1996.8693	231.4	0.119	549/22 2.5
1987.2692	25.5	0.261	538/76 3.8	1997.1260	231.9	0.124	549/22 2.5
GJ 9281	Ald 115	BD +16°1877	09002+1550	CD −26°7184	Rst 1436	HD 82725	09330−2705
1984.0553	278.6	1.963	538/76 3.8	1993.0956	143.8:	0.247:	538/76 4.0
HR 3579	Kui 37 AB	HD 76943	09006+4147	ADS 7438	Cou 2084 Aa	HD 82780	09354+3958
1996.8638	100.6	0.396	549/22 2.5	1996.3232	95.2	0.342	549/22 2.5
ADS 7158	A 1585	HD 77327	09036+4709[b]	1996.8721	94.2	0.338	549/22 2.5
1987.2690	274.9	0.215	549/22 3.8	1997.1259	93.6	0.340	538/76 2.5
1993.2025	236.2:	0.060:	549/22 3.8	CD −36°5822	Rst 2644	HD 83416	09372−3721
1994.0927	193.6:	0.042:	549/22 2.5	1993.0956	239.5	0.181	538/76 4.0
1994.8708	158.1	0.043	549/22 3.6	HR 3846	CHR 175	HD 83650	09398−1034
1996.8638	107.2	0.078	549/22 2.5	1996.1836	133.7	0.376	549/22 4.0
1997.1368	107.6	0.086	549/22 2.5	1996.8719	133.3	0.369	549/22 2.5
1997.2709	103.9	0.076	549/22 2.5	CPD −57°2228	B 780	HD 84121	09407−5759
CD −32°6023	Rst 2599	HD 77920	09044−3306	1993.0903	181.6	0.077	549/22 4.0
1993.0956	284.3	0.288	538/76 4.0	CD −34°6086	B 1996	HD 84088	09417−3452
CD −49°4118	Rst 5317	HD 78386	09062−4943	1993.0902	309.3	0.086	538/76 4.0
1993.0955	343.3:	0.312:	538/76 4.0	HR 3871	Fin 326	HD 84367	09442−2746
CD −43°4952	B 1646 AB	HD 78547	09074−4357	1988.2548	261.6:	0.074:	549/22 3.8
1993.0955	1.8	0.181	538/76 4.0	1989.2269	243.2	0.093	549/22 3.8
HR 3650	Fin 347 Aa	HD 79096	09123+1500	1993.0901	205.1	0.134	549/22 4.0
1996.8665	177.9	0.092	549/22 2.5	1996.1810	187.6	0.145	549/22 4.0
1997.1313	160.0	0.130	549/22 2.5	HR 3859	CHR 176	HD 83962	09446+6459
ADS 7231	A 1977	BD +27°1722	09124+2653	1994.8708	188.0	0.090	549/22 3.6
1997.1315	142.3	0.168	538/76 2.5	ADS 7510	B 188	HD 84566	09455−2824
CPD −60°1353	HdO 207 Aa, B	HD 79699	09128−6055	1993.0902	134.7	0.115	538/76 4.0
1993.0955	62.1	0.227	549/22 4.0	HR 3880	McA 34	HD 84722	09474+1134
1996.1781	65.2	0.214	549/22 4.0	1984.0609	46.4:	0.065:	549/22 3.8
ADS 7265	Cou 934 Aa	BD +25°2069	09159+2431	1997.1260	27.9	0.127	549/22 2.5
1997.1315	257.1	0.132	549/22 2.5	AG +14°1050	Mrl 2	BD +14°2146	09476+1419
HR 3712	Fin 363 AB	HD 80671	09173−6841	1995.9272	269.7:	0.435:	538/76 2.5
1993.0953	312.9	0.066	549/22 4.0	BD +21°2108	Cou 284	HD 84739	09477+2036
HR 3720	I 12 AB	HD 80951	09174−7454	1997.1259	46.2	0.120	538/76 2.5
1993.0953	266.3	0.288	549/22 4.0	CD −45°5435	B 1661	HD 85080	09482−4632
1996.1809	265.0	0.295	549/22 4.0	1993.0902	54.2	0.149	538/76 4.0
ADS 7284	StF 3121	HD 79969	09179+2834	HR 3889	Kui 44	HD 85040	09498+2111
1996.8638	6.4	0.540	549/22 2.5	1985.2269	209.3:	0.226:	549/22 9.9
1997.1315	7.1	0.569	549/22 2.5	1986.8923	208.7	0.220	549/22 3.8
BD +19°2194	Cou 384	HD 80082	09183+1847	1988.2495	208.4	0.205	538/76 3.8
1996.8663	64.2	0.099	549/22 2.5	1994.8708	203.8	0.117	549/22 3.6
1997.1313	62.3	0.096	538/76 2.5	1997.1259	194.6	0.073	549/22 2.5
ADS 7286	StF 1333	HD 80024	09184+3522	ADS 7541	Ho 369 AB	HD 85177	09512+3629
1997.1315	49.0	1.883	549/22 2.5	1983.0645	99.9	0.389	549/22 3.8
ADS 7307	StF 1338 AB	HD 80441	09210+3811	1984.3832	101.2	0.400	549/22 3.8
1988.2576	267.0	1.032	549/22 3.8	ADS 7545	Stt 208	HD 85235	09521+5404
1997.1315	282.2	1.028	549/22 2.5	1988.2521	171.3	0.183	467/16 3.8
ADS 7334	A 1342 AB	HD 81009	09228−0950	1996.3232	239.3	0.221	549/22 2.5
1984.0527	21.3	0.167	549/22 3.8	1996.8721	242.4	0.225	549/22 2.5
1984.3859	22.6	0.162	549/22 3.8	1997.1259	243.6	0.227	549/22 2.5
1993.0983	49.0	0.113	549/22 4.0	ADS 7555	AC 5 AB	HD 85558	09525−0806
1996.1783	73.4	0.051	549/22 4.0	1988.2522	74.2	0.553	467/16 3.8
CD −38°5541	Fin 348	HD 81411	09243−3926	BD +44°1931	Pop 151	HD 85973	09566+4359
1993.0955	340.7	0.134	549/22 4.0	1986.8840	79.6:	0.501:	538/76 3.8
CD −41°5091	B 1122	HD 81782	09264−4215	CPD −52°3063	Rst 1474	HD 87027	10008−5308
1993.0955	30.3	0.164	549/22 4.0	1993.0902	93.5	0.156	538/76 4.0
ADS 7382	A 1588 AB	HD 81728	09272−0913	BD −03°2831	Rst 4445	HD 86814	10009−0416
1984.1865	192.6	0.362	549/22 1.8	1993.0901	113.1	0.242	538/76 4.0
1996.1782	194.6	0.393	549/22 4.0	CD −50°4791	Hu 1594	HD 87652	10050−5119
1996.8719	195.5	0.379	549/22 2.5	1989.3086	290.6	0.311	549/22 4.0
HR 3750	B 2530	HD 81809	09278−0604	ADS 7635	I 293	HD 87556	10052−2812
1988.2522	146.4	0.364	467/16 3.8	1993.0902	324.0	0.137	549/22 4.0
1993.0983	149.5	0.528	549/22 4.0	BD −11°2794	Rst 3677	HD 87572	10056−1231
1994.8708	150.1	0.544	549/22 3.6	1993.0901	345.6	0.229	538/76 4.0
1996.1783	151.0	0.532	549/22 4.0	BD +34°2079	Cou 1569	HD 87473	10059+3412
1996.8719	151.1	0.513	549/22 2.5	1984.3832	82.1	0.146	549/22 3.8
ADS 7384	Ho 366 AB	HD 81656	09279+3128	ADS 7651	Kui 48 AB	HD 87822	10083+3136
1997.1315	136.0:	0.122:	549/22 2.5	1987.2665	332.5:	0.046:	549/22 3.8
ADS 7390	StF 1356	HD 81858	09285+0903	1996.8721	169.6	0.212	549/22 2.5
1988.2522	48.3	0.457	467/16 3.8	1997.1259	170.1	0.212	549/22 2.5
1993.0983	65.5	0.485	549/22 4.0	ADS 7662	A 2145	HD 88021–22	10093+2020
CD −37°5811	B 1125	HD 82120	09289−3750	1994.8708	287.6	0.059	549/22 3.6
1993.0956	131.8	0.063	538/76 4.0	HR 3989	CHR 177	HD 88195	10101−0824
BD +58°1192	Mlr 549	HD 81772	09299+5808	1996.1836	329.3	0.217	549/22 4.0
1983.0642	119.8	0.238	549/22 3.8	CD −38°6260	I 1523	HD 88505	10115−3924
AG +15°1069	Hei 151	BD +15°2060	09305+1516	1993.0902	129.6	0.209	549/22 4.0
1997.1313	112.2:	0.137:	538/76 2.5	ADS 7674	Hu 874	HD 88355	10116+1321
ADS 7417	Hu 127	HD 82448	09318−1126	1995.1465	285.4	0.220	549/22 2.5
1984.3860	85.7	0.892	549/22 3.8	1996.4219	284.8:	0.222:	549/22 2.5

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1997.1260	286.6	0.225	549/22 2.5	CPD −61°2064	B 2004	HD 96357	11055−6151
ADS 7681	B 194	HD 88522	10120−2836	1993.0903	321.1:	0.320:	538/76 4.0
1993.0902	171.8	0.095	549/22 4.0	CPD −70°1304	B 2006	HD 96705	11068−7050
CPD −59°2008	Hu 1597	HD 89263	10161−5954	1993.0903	193.7	0.164	549/22 4.0
1993.0903	75.7	0.264	549/22 4.0	BD +15°2297	Hei 60	HD 96953	11100+1443
BD −02°3111	Rst 4454 AB	HD 89334	10183−0326	1987.2638	265.0:	0.362:	549/22 3.8
1993.0901	221.3	0.283	538/76 4.0	ADS 8086	Bu 220	HD 97411	11125−1830
CD −31°8206	I 1525	HD 89949	10223−3225	1996.3235	322.7	0.320	549/22 2.5
1993.0902	203.7	0.196	538/76 4.0	1997.1317	322.3	0.326	549/22 2.5
ADS 7746	B 197	HD 89983	10227−2350	ADS 8092	A 1353	HD 97455	11136+5525
1993.0901	62.9	0.091	538/76 4.0	1984.3750	226.9	0.432	549/22 3.8
ADS 7769	A 2570	HD 90361	10260+0256	1986.8840	224.2	0.459	538/76 3.8
1984.3778	307.6	0.348	549/22 3.8	ADS 8094	StF 1517	HD 97561	11137+2008
ADS 7766	A 1086 AB	HD 90203	10270+6722	1989.2271	324.6	0.477	549/22 3.8
1984.1810	215.8	0.941	550/89 1.8	ADS 8096	Bu 916	HD 97635	11141−1526
ADS 7780	Hu 879	HD 90537	10279+3642	1993.0901	140.7	0.249	549/22 4.0
1984.0610	230.9	0.447	549/22 3.8	CD −27°7953	Rst 5353	HD 97785	11148−2830
1985.2269	231.8:	0.420:	549+NF 2.5	1993.0901	74.1	0.132	538/76 4.0
1996.3232	2.3	0.076	549/22 2.5	ADS 8102	Stt 232 Aa, B	HD 97731	11151+3735
1996.8721	14.7	0.097	549/22 2.5	1986.8840	238.5	0.625	538/76 3.8
1997.1259	18.5	0.100	549/22 2.5	1996.4247	242.4:	0.568:	549/22 2.5
ADS 7787	Fin 308 AB	HD 90737	10282−2548	CD −38°7022	See 128	HD 97881	11151−3929
1993.0901	212.1	0.144	549/22 4.0	1993.0902	127.9	0.063	549/22 4.0
CD −43°6308	B 1158	HD 91036	10297−4352	BD +43°2096	Cou 1904	HD 97857	11158+4227
1993.0902	326.6	0.081	538/76 4.0	1983.4167	195.3	0.305	549/22 3.8
CD −35°6481	Rst 3701	HD 91153	10309−3616	1984.0583	197.7	0.307	549/22 3.8
1993.0902	142.8	0.168	538/76 4.0	ADS 8119	StF 1523 AB	HD 98230–31	11182+3132
CD −36°6489	Rst 3706	HD 91673	10345−3721	1984.1866	93.0	2.403	549/22 1.8
1993.0902	232.8	0.147	538/76 4.0	1995.3105	313.0	1.203	549/22 2.5
ADS 7844	A 2055 AB	HD 91751	10365+4430	ADS 8128	StF 1527	HD 98354	11190+1416
1986.4038	164.3:	0.332:	549/22 3.8	1997.1318	59.7	0.628	467/16 2.5
HR 4167	See 119	HD 92139	10373−4814	ADS 8141	I 507	HD 98800	11221−2447
1993.0902	289.0	0.386	549/22 4.0	1996.1838	3.1	0.807	549/22 4.0
1996.1837	277.7	0.441	549/22 4.0	BD +37°2177	Cou 1260 BC	HD 98745	11221+3705
CD −42°6390	Fin 338	HD 92328	10388−4245	1986.4066	18.2:	0.306:	NF 3.8
1993.0902	32.9	0.185	549/22 4.0	ADS 8145	A 2776 AB	HD 98914	11230+0408
CD −35°6668	Jsp 418	HD 92791	10423−3612	1993.0900	118.7	0.076	549/22 4.0
1993.0902	126.9	0.278	538/76 4.0	CD −73°664	B 2011 AB	HD 99514	11256−7359
ADS 7896	A 2768	HD 92749	10426+0335	1989.3059	112.2:	0.435:	538/76 4.0
1983.4169	332.4:	0.223:	549/22 3.8	HR 4417	I 883	HD 99574	11268−5310
1996.4219	271.2	0.449	549/22 2.5	1993.0931	192.5	0.157	549/22 4.0
1997.1260	270.3	0.463	549/22 2.5	HR 4419	Rst 4944	HD 99651	11279−0142
HR 4212	CHR 227 Ba	HD 93359	10443−7052	1983.4169	294.8	0.252	549/22 3.8
1996.1838	48.2	0.608	549/22 4.0	1996.3234	279.0:	0.201:	549/22 2.5
CD −37°6769	B 794	HD 93122	10447−3809	1997.1317	274.2	0.200	549/22 2.5
1993.0902	176.3	0.257	549/22 4.0	HR 4425	B 1699	HD 99872	11283−7228
CPD −79°554	I 294	HD 93779	10453−8028	1996.1837	352.4	0.358	549/22 4.0
1989.3087	83.6	0.778	549/22 4.0	ADS 8189	Stt 234	HD 100018	11308+4117
ADS 7918	I 502 AB	HD 93227	10455−2502	1983.0671	127.0	0.291	549/22 3.8
1984.3805	359.0	0.290	549/22 3.8	ADS 8198	Hu 1134	HD 100235	11322+3615
CPD −63°1649	Fin 364	HD 93549	10465−6416	1996.3234	122.0	0.167	549/22 2.5
1993.0903	322.2	0.078	549/22 4.0	1996.4247	123.7:	0.163:	549/22 2.5
ADS 7929	Stt 229	HD 93457	10480+4107	ADS 8197	Stt 235 AB	HD 100203	11323+6105
1984.0529	279.5	0.776	549/22 3.8	1984.0610	246.6	0.478	549/22 3.8
1984.0610	279.7:	0.768:	549/22 3.8	1988.2522	276.4	0.563	467/16 3.8
1986.4038	278.1	0.771	549/22 3.8	ADS 8210	Hu 727	HD 233841	11332+4927
ADS 7952	A 2373	HD 94120	10520+1606	1984.1812	22.9	1.236	550/89 1.8
1984.3860	104.0	0.072	549/22 3.8	1984.3861	23.0	1.234	549/22 3.8
CD −34°7078	I 1206 AB	HD 94693	10553−3530	ADS 8231	StF 1555 AB	HD 100808	11363+2747
1993.0902	297.0	0.138	549/22 4.0	1984.0612	143.9	0.602	549/22 3.8
BD +29°2110	Cou 960	HD 95342	11008+2913	1985.0004	144.4	0.607	549/22 3.8
1984.0583	100.7	0.179	549/22 3.8	1985.2269	143.8:	0.607:	549+NF 2.5
1984.3724	103.5	0.200	549/22 3.8	1988.2523	145.0	0.637	467/16 3.8
1987.2638	105.5	0.188	538/76 3.8	CD −49°6332	Rst 4947	HD 101004	11371−4942
BD +30°2097	Cou 961 Aa, B	HD 95515	11018+2952	1993.0931	23.7	0.256	538/76 4.0
1984.3558	324.0	1.072	549/22 1.8	ADS 8242	Ku 39	BD +48°1958	11374+4728
CD −50°5641	LL Vel	HD 96008	11037−5121	1984.3861	87.5	1.489	549/22 3.8
1996.1783	…	<0.035	549/22 4.0	1988.2578	92.5	1.425	538/76 3.8
ADS 8035	Bu 1077	HD 95689	11037+6145	1989.2382	94.5	1.424	NF 3.8
1986.4039	292.1	0.787	549/22 3.8	ADS 8244	Hu 728	HD 101024	11379+4949
1989.2378	279.8	0.729	549/22 3.8	1987.2640	115.6:	0.392:	538/76 3.8
ADS 8043	StF 1504 AB	HD 95899	11040+0338	ADS 8249	StF 1559	HD 101150	11388+6421
1996.4329	300.8:	1.258:	549/22 2.5	1983.0508	323.4	1.999	549/22 3.8
ADS 8048	A 676 BC	HD 96064	11047−0413	ADS 8254	A 2577	HD 101279	11394+0856
1989.9446	77.2:	0.342:	NF 4.0	1997.1318	55.1	0.119	538/76 2.5
1993.0901	125.4	0.175	538/76 4.0	CPD −64°1685	B 1705 AB	HD 101379	11395−6524
1997.2682	234.3:	0.280:	549/22 2.5	1993.0930	250.3	0.208	549/22 4.0
HR 4314	Fin 47	HD 96202	11053−2718	HR 4501	Bnu 3 Aa	HD 101606	11416+3145
1993.0901	233.7	0.066	549/22 4.0	1986.4066	239.1	0.041	549/22 3.8
ADS 8051	A 2378	HD 96130	11053+1635	BD −21°3358	…	HD 101649	11417−2245
1989.2379	137.2	0.508	NF 3.8	1994.3109	…	<0.030	538/76 4.0

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
CD −38°7286	Rst 5358	HD 101822	11430−3933	CD −61°3546	Rst 4504 AB	HD 109891	12390−6232
1993.0931	170.9	0.168	538/76 4.0	1989.3115	74.6	0.622	538/76 4.0
CD −35°7393	I 1546	HD 101834	11431−3601	CD −39°7742	B 1215	HD 109961	12392−4022
1993.0931	15.2	0.095	538/76 4.0	1993.0931	113.9	0.083	538/76 4.0
BD −03°3167	Rst 5524	HD 101969	11441−0448	BD +27°2158	Cou 596	HD 110297	12409+2708
1993.0957	105.6	0.095	549/22 4.0	1986.4067	190.1	0.069	538/76 3.8
1997.1317	135.9	0.117	549/22 2.5	1987.2642	176.2:	0.048:	538/76 3.8
ADS 8309	A 2380	HD 102513	11479−1528	1997.1262	210.5	0.165	549/22 2.5
1993.0956	55.5	0.191	538/76 4.0	HR 4825	StF 1670 A	HD 110379	12417−0127
ADS 8311	Bu 603	HD 102590	11486+1417	1996.1758	…	<0.035	549/22 4.0
1983.0482	351.9	0.956	549/22 3.8	HR 4826	StF 1670 B	HD 110380	12417−0127
1984.3726	350.9	0.968	549/22 3.8	1996.1758	…	<0.035	549/22 4.0
CD −45°7312	Fin 366	HD 102703	11495−4604	CPD −56°5410	Fin 65	HD 110698	12446−5717
1993.0931	357.7	0.204	549/22 4.0	1993.0930	306.9	0.166	549/22 4.0
BD −19°3360	B 1708	HD 103116	11523−1958	BD −20°3713	Rst 2814	HD 111017	12465−2051
1993.0956	318.5	0.205	538/76 4.0	1989.3116	145.9:	0.175:	538/76 4.0
ADS 8332	A 2579	HD 103228	11532−1540	CPD −57°5708	Rst 2815	HD 111104	12477−5826
1983.4141	61.9	0.363	549/22 3.8	1989.3115	239.1:	0.297:	538/76 4.0
CPD −56°4859	Rst 2772	HD 103345	11540−5652	BD +51°1792	Cou 2188	HD 111957	12524+5017
1993.0931	312.9	0.252	538/76 4.0	1997.1318	29.6:	0.262:	538/76 2.5
CD −49°6618	Rst 562 AB	HD 103526	11552−5012	CD −69°1044	…	HD 111828	12531−6953
1993.0931	327.5	0.254	538/76 4.0	1996.1758	…	<0.035	549/22 4.0
BD +06°2529	CHR 220	HD 103740	11568+0521	AG +43°1122	Cou 1579	BD +43°2270	12533+4246
1997.1318	140.8	0.126	549/22 2.5	1997.1318	63.0:	0.161:	NF 2.5
CD −43°7386	B 1203 AB	HD 103910	11578−4343	CD −28°9777	Rst 5370	HD 112087	12542−2924
1993.0931	219.4	0.240	549/22 4.0	1993.0931	338.2	0.321	538/76 4.0
ADS 8387	A 1088	HD 104288	12006+6911	ADS 8708	Stt 256	HD 112398	12564−0057
1986.4066	294.4:	0.129:	538/76 3.8	1984.0558	95.5	0.970	549/22 3.8
1989.2272	301.7:	0.119:	538/76 3.8	BD +09°2696	Fin 380	HD 112503	12572+0818
ADS 8393	Hu 890	BD +12°2413	12014+1119	1993.0957	157.6	0.209	549/22 4.0
1984.3861	68.6	1.555	549/22 3.8	1997.1263	159.4	0.233	549/22 2.5
ADS 8419	StF 3123 AB	HD 105122	12060+6842	ADS 8727	CHR 39 Aa	HD 112846	12597−0349
1984.1813	307.3	0.155	549/22 1.8	1983.4280	186.9	0.120	549/22 3.8
CPD −65°1788	Fin 367 Aa	HD 105151	12064−6543	1984.3752	207.1	0.107	549/22 3.8
1993.0930	22.3	0.162	549/22 4.0	1987.2640	318.5	0.055	549/22 3.8
ADS 8486	StF 1621	BD +06°2573	12160+0538	1993.0933	44.8	0.099	549/22 4.0
1984.1813	2.5	0.655	550/89 1.8	1993.0957	45.6	0.098	549/22 4.0
CD −49°6957	Rst 583	HD 106725	12165−5009	1996.1840	58.8	0.058	549/22 4.0
1993.0931	270.1	0.202	538/76 4.0	CD −40°7615	I 1224	HD 112833	13000−4123
ADS 8502	A 2582	HD 106914	12177+0002	1993.0931	16.9	0.127	549/22 4.0
1989.3060	67.6:	0.410:	538/76 4.0	ADS 8757	Bu 341	HD 113415	13038−2035
HR 4689	McA 37	HD 107259	12199−0040	1984.1814	313.1	0.833	549/22 1.8
1983.0482	348.0	0.152	549/22 3.8	1984.3779	312.4	0.824	549/22 3.8
1993.0933	276.5:	0.091:	549/22 4.0	ADS 8759	Bu 929	HD 113459	13039−0340
1993.0957	269.1	0.086	549/22 4.0	1984.1814	200.8	0.711	549/22 1.8
1996.1838	347.7	0.147	549/22 4.0	ADS 8764	Bu 798	HD 113460	13040−1738
1997.1317	0.6	0.129	549/22 2.5	1993.0905	168.0	0.352	538/76 4.0
CD −36°7814	Rst 2793	HD 107783	12232−3729	ADS 8765	I 915	HD 113669	13056−2204
1993.0931	194.4	0.126	538/76 4.0	1984.3862	76.4	0.081	549/22 3.8
ADS 8535	Stt 249 AB	HD 107922	12238+5410	1986.4067	54.9:	0.140:	538/76 3.8
1984.0557	266.5:	0.408:	549/22 3.8	ADS 8785	A 1605	HD 234012	13069+5200
ADS 8540	Stt 250	HD 108005	12244+4305	1984.4436	167.3	0.984	550/89 1.8
1984.0530	345.2	0.387	549/22 3.8	ADS 8801	McA 38 Aa	HD 114330	13099−0532
1984.3726	345.4	0.384	549/22 3.8	1983.4169	327.9	0.483	549/22 3.8
ADS 8551	A 78	HD 108320	12268−0536	1984.0586	328.1	0.484	549/22 3.8
1984.0531	141.6:	0.174:	549/22 3.8	1984.1814	328.5	0.488	549/22 1.8
1984.3752	143.5	0.170	549/22 3.8	1984.1868	328.1	0.488	549/22 1.8
1993.0957	199.1	0.096	549/22 4.0	1993.0905	334.7	0.466	549/22 4.0
1997.1317	346.3	0.081	549/22 2.5	1996.1840	336.9	0.463	549/22 4.0
ADS 8552	A 79 AB	HD 108361	12270−0332	1997.1263	337.5	0.463	549/22 2.5
1997.1317	103.9	0.327	549/22 2.5	ADS 8804	StF 1728 AB	HD 114378–79	13100+1732
ADS 8555	B 228	HD 108410	12274−2843	1984.0532	192.3	0.640	549/22 3.8
1983.4304	140.0	0.265	549/22 3.8	1984.1814	192.6	0.642	549/22 1.8
1993.0931	171.6	0.083	549/22 4.0	1984.1869	192.6	0.643	549/22 1.8
CD −49°7142	Rst 4960	HD 108749	12299−5015	1996.3236	12.8	0.343	549/22 2.5
1993.0931	355.5	0.135	538/76 4.0	1997.1263	11.9	0.278	549/22 2.5
CPD −59°4296	Jsp 539	HD 109091	12325−5954	CD −34°8695	B 2015	HD 114336	13103−3447
1993.0930	38.8	0.155	549/22 4.0	1993.0958	323.6	0.098	549/22 4.0
CPD −60°4128	B 802	HD 109164	12332−6057	ADS 8806	B 242	HD 114404	13105−2553
1989.3115	176.2:	0.447:	538/76 4.0	1993.0958	37.7	0.286	549/22 4.0
CPD −56°5311	Rst 4963	HD 109299	12340−5732	HR 4978	Fin 305	HD 114576	13117−2633
1989.3088	240.1	0.188	538/76 4.0	1984.0558	115.6	0.090	549/22 3.8
1993.0931	245.3:	0.185:	538/76 4.0	1984.3862	115.1:	0.096:	549/22 3.8
HR 4789	WRH 12	HD 109485	12349+2238	1986.4067	97.3:	0.143:	549/22 3.8
1984.1868	9.2	0.328	549/22 1.8	1993.0958	93.2	0.182	549/22 4.0
BD −04°3307	Rst 4502	HD 109452	12349−0509	1996.1785	86.5	0.161	549/22 4.0
1997.1317	215.2	0.137	549/22 2.5	ADS 8820	A 1606	HD 114878	13128+4030
ADS 8603	Fin 368 Aa	HD 109557	12357−1650	1984.2932	19.2	1.341	550/89 1.8
1993.0956	100.8	0.107	549/22 4.0	CD −50°7589	I 1227	HD 114772	13134−5042
CD −46°8027	Rst 5526	HD 109607	12362−4650	1993.0984	184.8	0.252	549/22 4.0
1993.0931	138.6	0.190	538/76 4.0				

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 8831	Fin 297 AB	HD 114993	13145−2417
1984.3862	317.4	0.195	549/22 3.8
1993.0958	336.0	0.244	549/22 4.0
BD −09°3648	Rst 3830	HD 115078	13149−1026
1993.0905	84.9:	0.140:	538/76 4.0
HR 5004	CHR 180	HD 115271	13155+4051
1997.1262	33.3	0.462	549/22 2.5
ADS 8843	Stt 263	HD 115477	13166+5034
1984.2933	135.7	1.859	550/89 1.8
HR 5014	Fin 350	HD 115488	13175−0041
1985.3389	10.5	0.129	549/22 3.0
1996.1840	24.2	0.116	549/22 4.0
CD −51°7425	I 516	HD 115595	13191−5239
1993.0984	192.6	0.174	549/22 4.0
ADS 8862	Hu 644 Aa, B	HD 115953	13198+4747
1984.1869	268.8	1.570	550/89 1.8
1984.2932	269.0	1.576	550/89 1.8
1984.4519	268.7	1.546	550/89 1.8
ADS 8864	StF 1734	HD 115995	13207+0257
1997.1263	176.6	1.120	549/22 2.5
CPD −72°1380	B 1735	HD 115672	13211−7316
1989.3090	0.4:	0.226:	538/76 4.0
HR 5030	B 1736	HD 115967	13229−7209
1993.0985	307.1	0.211	549/22 4.0
1996.1841	310.6	0.227	549/22 4.0
ADS 8887	Ho 260 AB	HD 116495	13235+2914
1984.2933	73.8	1.210	550/89 1.8
1984.3779	73.7	1.220	549/22 3.8
1984.3807	73.9	1.217	549/22 3.8
ADS 8903	Stt 267	HD 117173	13253+7559
1985.4840	206.5:	0.109:	538/76 3.8
CD −48°8202	Fin 351	HD 116836	13271−4909
1993.0984	159.1	0.194	549/22 4.0
CD −38°8592	See 179	HD 117440	13310−3924
1993.0983	94.6	0.210	549/22 4.0
CPD −64°2441	Fin 369	HD 117432	13320−6519
1993.0984	8.2	0.144	549/22 4.0
AG +31°1211	Wor 24	BD +31°2500	13320+3108
1983.0511	327.7:	0.239:	549/22 3.8
ADS 8939	Stt 269 AB	HD 117902	13329+3454
1986.4069	260.1	0.057	549/22 3.8
1996.4220	211.3	0.184	549/22 2.5
1997.1262	211.8	0.197	549/22 2.5
BD −15°3694	Rst 3844	HD 117968	13342−1623
1993.0905	340.3:	0.105:	538/76 4.0
ADS 8954	Bu 932 AB	HD 118054	13347−1313
1983.4304	48.0	0.351	549/22 3.8
ADS 8964	Ag 190	HD 118376	13356+4939
1995.3136	16.7:	1.923:	538/76 2.5
CD −31°10498	I 221	HD 118318	13368−3224
1989.3116	114.8	0.586	549/22 4.0
ADS 8974	StF 1768 AB	HD 118623	13375+3618
1984.2935	103.4	1.810	549/22 1.8
ADS 8979	StF 1770 AB	HD 118741	13377+5043
1996.4275	122.0	1.720	549/22 2.5
ADS 8988	Hu 897 AB	BD +38°2467	13400+3759
1984.2933	31.2:	0.395:	550/89 1.8
1984.4491	31.6	0.401	550/89 1.8
1984.4546	30.9	0.386	550/89 1.8
1985.4840	30.8	0.394	538/76 3.8
ADS 8994	Fin 352 AB	HD 119086	13415−2327
1984.3752	321.6	0.184	549/22 3.8
1987.2722	321.0	0.200	549/22 3.8
1993.0958	319.0	0.213	549/22 4.0
CD −41°8089	Fin 353 AB	HD 119361	13437−4204
1993.0983	47.1	0.116	549/22 4.0
ADS 9019	StF 1781	HD 119931	13461+0507
1993.0903	167.2	0.613	549/22 4.0
1996.1759	172.2	0.682	549/22 4.0
ADS 9043	Hu 898	HD 121137	13539−1910
1993.0958	257.2	0.186	549/22 4.0
BD −13°3786	Rst 3852	HD 121136	13539−1440
1984.0558	136.1	0.143	549/22 3.8
1984.3752	134.8	0.146	549/22 3.8
1993.0905	69.8	0.105	549/22 4.0
CD −34°9254	B 2019	HD 121526	13566−3519
1993.0958	338.3	0.106	549/22 4.0
ADS 9066	StF 1792	BD +13°2731	13571+1227
1984.3865	291.6	2.161	549/22 3.8
CPD −61°4194	Fin 370	HD 121454	13574−6229
1993.0984	128.8	0.137	549/22 4.0
BD +02°2752	A 2167	HD 121908	13583+0213
1993.0905	130.4	0.192	538/76 4.0
GJ 9465	Ald 112	…	14019+1530
1984.3865	181.7	1.629	538/76 3.8
ADS 9089	A 1097 AB	HD 122740	14020+5713
1987.2668	231.4	0.407	538/76 3.8
ADS 9094	Bu 1270	HD 122769	14037+0829
1993.0903	230.5	0.118	549/22 4.0
1996.1759	265.2:	0.179:	549/22 4.0
ADS 9106	Bu 938	HD 123107	14063−2635
1993.0958	130.5	0.267	549/22 4.0
ADS 9159	Stt 278	HD 124399	14122+4411
1986.4041	310.3	0.326	549/22 3.8
BD +04°2837	A 1797	HD 124259	14124+0352
1993.0905	115.8:	0.203:	538/76 4.0
ADS 9158	Stt 277 AB	HD 124346	14124+2843
1997.1266	52.6	0.243	538/76 2.5
ADS 9174	StF 1816	HD 124587	14139+2906
1982.2921	89.9	0.735	550/89 1.8
1984.0559	88.8	0.748	549/22 3.8
1986.4042	89.5	0.730	549/22 3.8
1989.2273	89.6	0.697	549/22 3.8
1996.4194	89.9	0.608	549/22 2.5
1997.1266	91.3	0.604	549/22 2.5
BD −00°2797	Rst 4997	HD 124700	14151−0125
1993.0905	241.0:	0.263:	538/76 4.0
ADS 9182	StF 1819	HD 124757	14153+0308
1997.1265	204.6	0.886	538/76 2.5
ADS 9186	Hu 138	HD 124851	14160−0704
1996.4249	16.0	0.562	538/76 2.5
ADS 9204	A 2067	BD +18°2859	14175+1722
1988.2606	254.9:	0.149:	549/22 3.8
ADS 9220	A 1102	HD 125725	14179+6914
1987.2671	103.8:	0.417:	538/76 3.8
HR 5372	CHR 137	HD 125632	14189+5452
1997.1320	24.4	0.138	549/22 2.5
BD +27°2367	Dan 1	HD 125709	14205+2634
1984.3835	170.7	0.050	549/22 3.8
1997.1266	176.5	0.086	549/22 2.5
ADS 9247	Bu 1111 BC	HD 126128	14234+0827
1988.2526	65.0	0.242	538/76 3.8
1993.0903	108.3	0.163	549/22 4.0
1997.1265	176.3	0.154	549/22 2.5
ADS 9254	StF 1837	HD 126251	14247−1140
1996.5369	277.5	1.242	549/22 2.5
ADS 9256	Stn 31	HD 126279	14252−2808
1984.3781	270.9	0.615	549/22 3.8
1989.2300	267.8	0.589	549/22 3.8
CD −44°9323	I 402	HD 126354	14262−4523
1993.0983	191.4	0.077	549/22 4.0
BD −05°3896	Rst 4529	HD 127352	14310−0548
1993.0905	106.7	0.082	549/22 4.0
ADS 9301	A 570	HD 127726	14323+2641
1996.4194	170.6	0.229	549/22 2.5
1997.1266	164.5	0.228	549/22 2.5
CPD −68°2128	Don 662	HD 127203	14335−6909
1989.3118	255.8	0.545	538/76 4.0
ADS 9313	AGC 6	HD 128042	14339+2949
1984.2935	135.1:	0.806:	550/89 1.8
ADS 9318	Bu 941 AB	HD 128233	14358+0015
1993.0905	142.4	0.225	538/76 4.0
AG +20°1515	Cou 98	BD +20°2993	14367+2014
1989.2383	200.4	0.325	NF 3.8
CD −45°9302	Fin 318 Aa	HD 128266	14373−4608
1993.0984	334.6	0.163	549/22 4.0
ADS 9323	CHR 42 Aa	HD 128563	14375+0217[b]
1994.2240	…	<0.055	549/22 2.5
1995.1443	…	<0.055	549/22 2.5
1995.3109	…	<0.055	549/22 2.5
1996.1842	131.4	0.106	549/22 4.0
1997.1265	137.8	0.137	549/22 2.5
CD −49°8904	Fin 371	HD 128415	14383−4954
1993.0985	27.3	0.076	549/22 4.0
HR 5472	McA 40	HD 129132	14404+2159
1997.1266	68.5	0.072	549/22 2.5
ADS 9343	StF 1865 AB	HD 129246–47	14411+1344
1996.3185	302.0	0.826	549/22 2.5
1996.4302	301.4	0.821	549/22 2.5
1996.5288	301.2	0.825	549/22 2.5
1997.1265	301.2	0.812	549/22 2.5

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 9352	Hu 575 AB	BD +20°3010	14426+1929
1984.3755	332.8	0.465	549/22 3.8
1989.2383	278.5	0.312	538/76 3.8
1996.4248	204.1	0.565	538/76 2.5
CPD −62°4257	B 1759 AB	HD 129092	14435−6258
1993.0985	79.1	0.237	549/22 4.0
BD −19°3950	B 1761	HD 129714	14447−2029
1993.0959	163.6	0.210	538/76 4.0
CD −35°9765	I 528	HD 129732	14453−3609
1993.0959	357.0	0.060	549/22 4.0
ADS 9378	Stt 285 AB	HD 130188	14455+4223
1996.4194	291.8:	0.426:	549/22 2.5
HR 5504	Fin 309	HD 129980	14462−2111
1993.0959	5.7	0.168	549/22 4.0
1996.1842	63.6	0.108	549/22 4.0
ADS 9392	StF 1883	HD 130604	14489+0557
1996.1842	284.1	0.751	549/22 4.0
1996.4194	283.0	0.738	549/22 2.5
1997.1265	284.1	0.760	538/76 2.5
CPD −58°5719	Fin 298 AB	HD 130205	14492−5924
1993.0985	168.5	0.084	549/22 4.0
ADS 9395	Hu 141	HD 130558	14492−1050
1984.3755	289.9	0.292	549/22 3.8
1986.4070	293.2:	0.301:	538/76 3.8
1987.2725	294.3	0.306	549/22 3.8
ADS 9397	A 2983	HD 130669	14493+1013
1986.4070	173.9	0.109	538/76 3.8
ADS 9425	Stt 288	HD 131473	14534+1542
1997.1265	167.0	1.240	549/22 2.5
CPD −61°4749	B 2025	HD 130911	14536−6221
1989.3090	280.1	0.151	538/76 4.0
CD −38°9753	I 1578	HD 131388	14545−3921
1993.0959	359.4	0.279	549/22 4.0
ADS 9443	A 2172	HD 131954	14565+0255
1993.0986	160.5	0.106	549/22 4.0
CPD −61°4768	B 2026	HD 131491	14566−6222
1993.0985	121.2	0.127	549/22 4.0
CD −42°9898	B 1256	HD 132515	15010−4300
1989.3064	82.8	0.657	538/76 4.0
ADS 9480	Bu 348 AB	HD 132933	15018−0008
1988.2499	110.4:	0.500:	538/76 3.8
ADS 9494	StF 1909	HD 133640	15038+4739
1997.1320	52.0	1.964	549/22 2.5
CPD −55°6331	Rst 2937	HD 133044	15047−5625
1993.0985	180.0	0.167	549/22 4.0
HR 5605–06	HJ 4728 AB	HD 133242–43	15051−4703
1996.1815	67.3	1.654	549/22 4.0
HR 5626	See 219	HD 133955	15088−4517
1996.1815	253.8	0.044	549/22 4.0
ADS 9515	Rst 4534 AB	HD 134213	15088−0610
1989.3091	12.1	0.377	549/22 4.0
BD −13°4081	HI Lib	HD 134214	15090−1400
1996.1842	…	<0.035	549/22 4.0
ADS 9530	A 1116	HD 134827	15116+1007
1985.4895	46.5	0.764	549/22 3.8
HR 5654	Cou 189	HD 134943	15121+1859
1984.3590	144.5	0.460	549/22 1.8
1997.1321	143.4	0.476	549/22 2.5
ADS 9545	Hu 1159	HD 135529	15127+6008
1988.2609	334.4:	0.230:	538/76 3.8
ADS 9547	Ho 60	HD 135365	15136+3453
1988.6653	172.2:	0.082:	549/22 3.8
HR 5683	HJ 4753 AB	HD 135734	15185−4753
1989.3063	131.3	1.121	549/22 4.0
AG +23°1451	Cou 103	BD +24°2847	15200+2338
1984.3755	283.4:	0.543:	549/22 3.8
1986.4097	283.2	0.543	NF 3.8
ADS 9626	CHR 181 Aa	HD 137391	15245+3723
1994.0931	202.8	0.072	549/22 2.5
1996.3186	126.8	0.115	549/22 2.5
1996.5398	117.8	0.116	549/22 2.5
1997.1321	83.4	0.100	549/22 2.5
1997.2684	77.6	0.087	549/22 2.5
CD −48°9912	B 1288 AB	HD 136807	15246−4835
1993.0985	326.3	0.165	549/22 4.0
ADS 9628	Hu 149	HD 137588	15246+5413
1984.3756	273.7	0.606	549/22 3.8
1985.4896	273.7	0.610	549/22 3.8
1986.4043	273.7	0.612	549/22 3.8
CD −37°10225	Rst 2955	HD 137015	15251−3810
1993.0959	229.3	0.121	549/22 4.0
CD −23°12272	Rst 2957	HD 137153	15251−2340
1993.0959	269.6	0.268	538/76 4.0
BD +42°2601	Cou 1443	HD 137896	15272+4133
1988.2582	178.4	0.500	549/22 3.8
ADS 9645	A 2074	BD +18°3024	15273+1738
1996.3240	253.2	0.202	538/76 2.5
1996.5398	251.7	0.212	549/22 2.5
1997.1321	251.5	0.223	538/76 2.5
HR 5747	Jef 1	HD 137909	15278+2906
1996.4196	148.2	0.314	538/76 2.5
1996.5288	147.0	0.311	549/22 2.5
1996.5398	147.2	0.311	549/22 2.5
1997.1375	144.4	0.300	549/22 2.5
ADS 9654	A 2175	HD 137844	15282+0251
1986.4098	192.6:	0.281:	538/76 3.8
1993.0986	197.4	0.270	549/22 4.0
ADS 9682	Hu 1163	HD 138439	15307+3810[b]
1983.4200	16.1:	0.122:	549/22 3.8
1988.6653	68.2:	0.120:	549/22 3.8
1996.5399	119.5	0.136	538/76 2.5
1997.2684	126.4:	0.150:	549/22 2.5
ADS 9688	A 1634 AB	HD 138629	15318+4054
1985.4841	184.0	0.050	549/22 3.8
AG +27°1450	Cou 798	BD +27°2513	15347+2655
1983.0702	55.5	0.141	538/76 3.8
CPD −56°6810	Rst 2964	HD 138589	15358−5654
1989.3119	237.8	0.387	538/76 4.0
ADS 9716	Stt 298 AB	HD 139341	15360+3948
1984.2936	236.0	0.434	549/22 1.8
1996.5399	86.9	0.186	549/22 2.5
1997.1320	111.5	0.213	549/22 2.5
CD −38°10497	B 1299	HD 138875	15363−3851
1993.0959	193.3	0.251	538/76 4.0
BD −04°3930	Rst 4545	HD 139177	15368−0438
1996.5397	275.4	0.460	538/76 2.5
ADS 9730	Hu 1168	HD 139905	15370+6426
1989.2384	167.2	0.156	538/76 3.8
ADS 9731	Hu 1167 AB	HD 139691	15382+3615
1995.4366	80.2	1.280	549/22 2.5
BD +26°2712	Cou 612	HD 139749	15390+2545
1996.3241	32.7	0.250	549/22 2.5
1996.5398	32.0	0.243	538/76 2.5
CD −63°1105	B 842 AB	HD 139212	15405−6350
1989.3120	261.2	0.527	538/76 4.0
BD +31°2762	Cou 613	HD 140065	15406+3128
1988.2555	345.1	0.198	549/22 3.8
ADS 9747	A 2176	HD 140122	15420+0027
1993.0986	313.0	0.117	549/22 4.0
1996.3240	336.0	0.159	538/76 2.5
1996.4222	331.8	0.142	549/22 2.5
1996.5397	333.1	0.151	549/22 2.5
BD +42°2629	Cou 1445	HD 140432	15420+4203
1984.3756	221.0	0.126	549/22 3.8
1988.6653	223.9:	0.079:	538/76 3.8
ADS 9757	StF 1967	HD 140436	15427+2618
1987.2643	119.2	0.528	549/22 3.8
1996.5288	116.1	0.681	549/22 2.5
1997.1375	116.0	0.685	549/22 2.5
ADS 9758	Bu 619	HD 140438	15432+1340
1996.3240	2.4	0.648	549/22 2.5
1996.4222	2.2	0.648	549/22 2.5
1996.5398	1.9	0.647	549/22 2.5
1997.1321	0.8	0.668	549/22 2.5
BD +22°2878	Cou 106	HD 140629	15440+2220
1984.3756	271.2	0.400	549/22 3.8
CPD −53°6667	I 1099	HD 140080	15443−5419
1989.3119	198.1	0.450	549/22 4.0
CPD −58°6252	Fin 234 AB	HD 140178	15453−5841
1993.0985	171.5	0.194	549/22 4.0
ADS 9775	Bu 620 Aa, B	HD 140722	15462−2804
1993.0959	171.8	0.584	549/22 4.0
GJ 9529 AB	Cou 66	…	15465+1957
1988.2556	140.8	0.844	549/22 3.8
CPD −57°7206	I 974	HD 140504	15468−5808
1993.0985	172.4	0.162	549/22 4.0
ADS 9783	A 2077	BD +19°3014	15468+1905
1984.3590	231.7	0.562	550/89 1.8
1984.4492	232.8	0.565	550/89 1.8
1984.4521	232.2	0.559	550/89 1.8
CD −35°10503	B 2038 AB	HD 140817	15471−3531
1989.3119	62.5	0.607	549/22 4.0

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 9794	A 1127	HD 141730	15474+5929	1996.5343	322.6	0.460	549/22 2.5
1984.3756	288.2	0.321	549/22 3.8	1997.1376	322.1	0.459	549/22 2.5
ADS 9806	Hu 912	HD 142089	15493+6032	ADS 10252	B 323	HD 152535	16550−2431
1988.2609	342.5	0.068	549/22 3.8	1984.3812	90.8	0.473	549/22 3.8
ADS 9812	Hu 153	HD 141898	15520−1232	GJ 644	Kui 75 AB	HD 152751	16555−0820
1984.3782	70.5	0.424	549/22 3.8	1983.4282	131.5	0.233	549/22 3.8
ADS 9836	I 977	HD 142456	15557−2645	1984.3619	308.9	0.228	550/89 1.8
1996.1843	218.2	0.268	549/22 4.0	1984.3785	303.1	0.221	549/22 3.8
ADS 9909	StF 1998 AB	HD 144069–70	16044−1122	1984.3811	301.8:	0.222:	549/22 3.8
1987.5457	35.6	0.860	549/22 1.8	1987.2727	52.1:	0.208:	538/76 3.8
ADS 9913	Bu 947 AB	HD 144217	16054−1948	CPD −65°3372	Rst 3053	HD 152138	16562−6519
1995.3167	153.1	0.304	549/22 2.5	1989.3120	220.2:	0.176:	538/76 4.0
1996.5397	156.0:	0.282:	549/22 2.5	ADS 10276	A 1143 AB	HD 153495	16566+5711
ADS 9913	McA 42 CE	HD 144218	16054−1948	1984.3839	261.4	0.439	549/22 3.8
1993.0986	158.6	0.119	549/22 4.0	1984.3867	261.6	0.439	549/22 3.8
1996.1842	181.6	0.121	549/22 4.0	1988.2556	257.2	0.429	549/22 3.8
ADS 9918	Fin 384 Aa	HD 144362	16057−0617	1996.5424	247.7	0.420	549/22 2.5
1993.2057	353.4	0.051	549/22 3.8	ADS 10276	A 1143 CD	HD 238627	16566+5711
1996.1842	282.7	0.064	549/22 4.0	1984.3839	142.0	0.769	549/22 3.8
ADS 9931	A 1798	HD 144935	16079+1425	1984.3867	141.8	0.755	549/22 3.8
1984.3757	24.9	0.168	549/22 3.8	BD +39°3062	Cou 1289	HD 153527	16584+3943
1988.2609	18.7	0.170	549/22 3.8	1989.7057	259.8:	0.092:	549/22 3.8
ADS 9935	Bu 355 AB	HD 145246	16080+4523	1994.7078	250.9	0.122	549/22 3.8
1996.4197	285.0	0.216	549/22 2.5	1996.4197	248.6	0.123	538/76 2.5
1996.5399	283.7	0.220	538/76 2.5	1997.1266	252.5	0.126	538/76 2.5
1997.1320	281.3	0.208	549/22 2.5	ADS 10287	Hu 162	HD 153305	16593−1654
ADS 9932	Bu 949	HD 144892	16085−1006	1983.4227	215.2	0.661	549/22 3.8
1996.5397	196.3	0.479	549/22 2.5	HR 6317	CHR 59	HD 153653	17005+0635
1997.1321	195.2	0.493	549/22 2.5	1994.7079	250.8	0.187	549/22 3.8
CD −30°12880	I 557	HD 144926	16094−3103	ADS 10340	A 1146	HD 155090	17036+6948
1984.3783	228.7:	0.190:	549/22 3.8	1986.4044	123.1	0.378	549/22 3.8
HR 6032	Fin 354	HD 145589	16115+0943	BD +38°2885	Cou 1291	HD 155039	17075+3810
1983.0702	84.9	0.121	549/22 3.8	1984.3840	216.7	0.108	549/22 3.8
1983.4282	82.6	0.130	549/22 3.8	1994.7078	274.3	0.154	538/76 3.8
ADS 9951	Bu 120 Aa, B	HD 145502	16120−1928	ADS 10360	Hu 1176 AB	HD 155103	17080+3556
1996.1842	2.1:	1.317:	549/22 4.0	1984.3730	150.3	0.085	549/22 3.8
1996.4196	1.7	1.306	549/22 2.5	1994.7078	108.2	0.135	549/22 3.8
ADS 9975	A 1642	HD 146327	16137+4638	1997.1266	61.9	0.081	549/22 2.5
1988.2609	190.8	0.502	538/76 3.8	HR 6396	Sta 1	HD 155763	17088+6543
1996.4222	186.4	0.626	538/76 2.5	1994.7078	33.4	0.059	549/22 3.8
1996.5399	184.5:	0.625:	538/76 2.5	BD −19°4547	McA 46	HD 155095	17102−1926
ADS 9971	Rst 3936 AB	HD 145996	16143−1025	1988.6654	112.1:	0.133:	549/22 3.8
1985.4868	269.1	0.295	538/76 3.8	1996.5289	117.6:	0.145:	549/22 2.5
ADS 10006	Stt 309	HD 147275–76	16192+4140	ADS 10374	Bu 1118 AB	HD 155125	17104−1544
1985.4814	286.8	0.320	549/22 3.8	1989.3040	253.1	0.443	549/22 4.0
1996.5399	296.7	0.292	538/76 2.5	1996.5288	245.1	0.513	549/22 2.5
1997.1266	296.2	0.295	538/76 2.5	1996.6956	245.1	0.513	549/22 2.5
ADS 10005	B 1808 AB	HD 147104	16205−2007	GJ 660 AB	LPM 629	…	17119−0151
1987.2726	181.2:	0.184:	549/22 3.8	1984.3784	126.4:	0.660:	538/76 3.8
ADS 10017	Hu 481	HD 147442	16212+2259	GJ 661	Kui 79 AB	HD 155876	17121+4540
1996.3241	29.5	0.204	538/76 2.5	1984.4441	239.6	1.153	550/89 1.8
1996.5398	26.6	0.203	538/76 2.5	1996.4250	247.8:	1.109:	538/76 2.5
BD −16°4280	CHR 54	HD 147473	16229−1701	1996.5424	245.3	1.114	NF 2.5
1996.5397	66.1	0.219	549/22 2.5	ADS 10425	Stt 327	HD 156389	17141+5608
ADS 10036	VBs 26 AB	BD +33°2722	16235+3321	1996.6982	323.6	0.422	549/22 2.5
1996.5398	46.7	0.174	538/76 2.5	ADS 10423	A 2592	HD 156034	17157−0949
HR 6123	CHR 55	HD 148283	16254+3724	1996.3241	198.3:	0.332:	538/76 2.5
1988.6598	339.9	0.050	549/22 3.8	ADS 10459	Bu 628	BD +32°2888	17184+3240
1996.5398	170.4	0.175	549/22 2.5	1984.3840	283.9:	0.470:	549/22 3.8
1997.1266	169.2	0.170	549/22 2.5	1984.4550	283.9	0.461	550/89 1.8
ADS 10068	Bu 814	HD 148552	16272+3953	HR 6469	McA 47	HD 157482	17217+3958
1985.3314	354.1	0.322	538/76 3.0	1994.7078	349.8	0.102	549/22 3.8
ADS 10078	A 2084	BD +16°2956	16296+1635	ADS 10526	McA 48 Aa	HD 157779	17237+3709
1996.4250	141.5	0.484	538/76 2.5	1989.2305	10.2	0.200	549/22 3.8
ADS 10087	StF 2055 AB	HD 148857	16309+0159	ADS 10521	Hu 671	HD 157683	17238+2155
1996.5288	25.8	1.381	549/22 2.5	1988.2557	264.2	0.787	549/22 3.8
BD +74°680	Mlr 198	HD 151746	16420+7353	BD −09°4546	Rst 3972	HD 157498	17240−0921
1987.2672	167.8:	0.152:	538/76 3.8	1996.5288	249.7:	0.216:	549/22 2.5
ADS 10169	StF 2091	HD 150903	16422+4112	ADS 10531	Hu 1179	HD 157853	17240+3835
1996.4224	320.3	0.514	538/76 2.5	1994.7078	278.8	0.194	549/22 3.8
1996.5425	320.8	0.521	538/76 2.5	1996.6957	277.9	0.209	549/22 2.5
1997.1266	320.6	0.509	538/76 2.5	1997.1267	277.5	0.211	549/22 2.5
BD +00°3569	Rst 5415	HD 150732	16429+0005	ADS 10573	Bu 1201	HD 158867	17263+6746
1987.2727	342.9	0.274	549/22 3.8	1986.4102	346.9:	0.157:	538/76 3.8
CPD −53°8153	Fin 251 AB	HD 150446	16438−5330	ADS 10561	A 2244	HD 158122	17283−2058
1993.0988	286.0:	0.362:	549/22 4.0	1984.3812	86.2	0.235	549/22 3.8
BD +29°2876	Cou 490	HD 151236	16450+2928	HR 6501	CHR 183	HD 158105	17289−3647
1983.7151	24.4	0.202	549/22 3.8	1996.1843	105.0	0.226	549/22 4.0
ADS 10230	Stt 315	HD 152127	16514+0113	ADS 10585	A 351 AB	BD +29°3029	17293+2924
1994.7079	323.8	0.429	549/22 3.8	1984.3759	243.9	0.631	549/22 3.8
1996.4197	323.3	0.462	549/22 2.5	1996.4252	252.8	0.554	538/76 2.5

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 10598	StF 2173	HD 158614	17304−0104
1994.7079	328.5	0.995	549/22 3.8
1996.3242	327.0	0.884	538/76 2.5
1996.5289	326.2	0.862	549/22 2.5
1996.5343	326.1	0.864	549/22 2.5
1996.6902	325.9	0.849	549/22 2.5
BD +19°3336	Cou 499	HD 158956	17313+1901
1984.3759	63.6:	0.167:	549/22 3.8
ADS 10621	A 352	HD 159240	17324+2848
1994.7079	355.2	0.139	549/22 3.8
1996.5291	352.7	0.123	538/76 2.5
ADS 10624	Hu 1181	HD 159304	17326+3445
1989.7058	149.5	0.116	538/76 3.8
1996.5291	315.7	0.104	538/76 2.5
HR 6560	Mlr 571	HD 159870	17335+5734
1996.3214	300.7	0.095	549/22 2.5
1996.6929	298.2	0.093	549/22 2.5
1997.1267	294.5	0.094	549/22 2.5
ADS 10659	A 1156	HD 159857	17366+0723
1994.7079	354.2	0.159	549/22 3.8
1996.5289	353.2	0.159	538/76 2.5
ADS 10690	StF 2207	HD 160862	17371+6707
1988.2583	115.6	0.527	549/22 3.8
HR 6571	CHR 63	HD 160181	17375+2419[b]
1993.2058	289.2	0.059	549/22 3.8
1994.7079	…	<0.036	549/22 3.8
1996.3242	63.0	0.097	549/22 2.5
1996.5289	64.7	0.094	549/22 2.5
1997.1377	63.2	0.104	549/22 2.5
ADS 10696	Bu 631	HD 160438	17400−0038
1994.7079	103.3	0.184	549/22 3.8
1996.3242	100.7	0.189	549/22 2.5
1996.5289	100.3	0.194	549/22 2.5
1996.6902	99.6	0.196	549/22 2.5
BD +21°3188	Cou 114	HD 160935	17418+2130
1996.3242	38.3	0.246	549/22 2.5
1996.6903	38.4	0.236	549/22 2.5
1997.1377	40.0	0.236	538/76 2.5
K 62	CHR 157	HD 161573	17461+0532[a]
1994.7079	43.0	0.267	549/22 3.8
1996.5289	40.3	0.272	549/22 2.5
HR 6641	CHR 64	HD 162132	17471+4737
1988.6654	124.7	0.186	549/22 3.8
1989.7058	126.1	0.184	549/22 3.8
1996.3214	139.0	0.285	549/22 2.5
1996.6929	139.5	0.274	549/22 2.5
1997.1267	139.6	0.279	549/22 2.5
ADS 10795	StF 2215	HD 161833	17471+1742
1994.7079	261.4	0.538	549/22 3.8
1996.3242	260.8	0.526	549/22 2.5
1996.5289	259.9	0.525	549/22 2.5
BD +37°2949	Cou 1145	HD 162338	17490+3704
1996.3243	103.4	0.136	538/76 2.5
1996.5291	100.1	0.133	538/76 2.5
BD +36°2956	Cou 1146	HD 162667	17505+3651
1986.4102	154.2	0.249	538/76 3.8
ADS 10850	Stt 338 AB	HD 162734	17520+1520[a]
1982.5028	353.0	0.841	549/22 3.8
AG +42°1531	Cou 1599	BD +42°2942	17531+4212
1982.5027	129.6:	0.612:	549/22 3.8
ADS 10871	A 235	HD 163077	17533+2459
1996.6903	101.4	0.269	549/22 2.5
HR 6676	Fin 381	HD 163151	17542+1108
1996.3242	232.5:	0.090:	549/22 2.5
1996.5289	224.3	0.081	549/22 2.5
CD −32°13517	V453 Sco	HD 163181	17563−3229
1993.0933	…	<0.035	549/22 4.0
ADS 10899	A 2189	HD 163471	17563+0259
1986.4100	354.3:	0.128:	538/76 3.8
ADS 10905	McA 49 Aa	HD 163640	17564+1820
1994.6997	74.6	0.092	549/22 3.8
1994.7079	74.9	0.094	549/22 3.8
1996.5289	69.5	0.099	549/22 2.5
ADS 10905	StF 2245 Aa, B	HD 163640	17564+1820
1983.4203	291.9	2.627	549/22 3.8
1996.5289	291.9	2.603	549/22 2.5
ADS 10912	StF 2244	HD 163624	17571+0004
1996.3242	97.7	0.501	NF 2.5
1996.5343	96.2	0.500	549/22 2.5
1996.6902	95.7	0.502	549/22 2.5
ADS 10916	Bu 1299 AB	BD +10°3337	17575+1058
1996.6902	77.5:	0.242:	549/22 2.5
GJ 9609	Kui 84	BD +04°3562	17584+0428
1996.5289	8.4:	0.199:	NF 2.5
BD +35°3116	Cou 1002	HD 164251	17587+3538
1983.7098	169.9	0.694	549/22 3.8
1984.3785	169.2:	0.706:	549/22 3.8
AG +24°1812	Cou 115	BD +24°3298	18000+2449
1986.4047	114.2	0.276	549/22 3.8
1988.2584	113.9	0.270	549/22 3.8
CD −24°13745	Rst 3147	HD 164146	18009−2413
1983.4312	199.5	0.216	549/22 3.8
ADS 11010	Bu 1127 AB	HD 165170	18025+4414
1984.3839	73.7	0.872	549/22 3.8
BD +40°3270	Cou 1785	HD 165311	18035+4032
1984.3840	55.1	0.148	549/22 3.8
BD +42°2995	Cou 1786	HD 165503	18043+4206
1984.3760	132.1:	0.092:	549/22 3.8
1988.6658	183.0	0.095	549/22 3.8
1994.6996	233.2	0.106	549/22 3.8
1996.4226	247.4:	0.114:	538/76 2.5
ADS 11060	Stt 341 AB	HD 165590	18058+2127
1987.7617	91.5	0.500	549/22 3.8
1988.2584	92.2	0.498	549/22 3.8
1988.6655	91.9	0.504	549/22 3.8
1994.6997	94.2	0.356	549/22 3.8
1996.3242	97.1	0.252	538/76 2.5
1996.5289	95.7	0.236	549+538 2.5
ADS 11071	Hu 1186	BD +38°3077	18063+3824
1984.3760	101.6	0.449	549/22 3.8
1996.3243	110.1:	0.359:	538/76 2.5
ADS 11077	AC 15 AB	HD 165908	18070+3034
1995.3167	47.9:	0.566:	549/22 2.5
ADS 11080	Stt 524	HD 165886	18075+1940
1985.3369	223.7	0.308	549/22 3.0
1996.3242	216.6	0.371	538/76 2.5
1996.6902	214.9	0.376	549/22 2.5
ADS 11089	CHR 67 Aa	HD 166045	18078+2606
1994.6997	325.4	0.281	549/22 3.8
1996.5291	329.2	0.267	549/22 2.5
ADS 11098	Hu 314	HD 166157	18086+1838
1983.7097	95.1	0.300	549/22 3.8
ADS 11111	StF 2281 AB	HD 166233	18096+0400
1994.6997	305.0	0.461	549/22 3.8
1996.4198	302.2	0.471	549/22 2.5
1996.6931	301.6	0.477	549/22 2.5
ADS 11149	Ho 82 AB, C	HD 166988	18118+3327
1996.4226	217.7	0.703	549/22 2.5
1996.6929	218.4	0.698	549/22 2.5
BD +46°2441	Cou 2118	HD 167260	18121+4644
1996.3215	23.6:	0.147:	538/76 2.5
1996.6929	22.5:	0.135:	549/22 2.5
ADS 11225	Hu 1291	BD +36°3076	18163+3625
1996.6929	101.3	0.146	549/22 2.5
BD −20°5068	McA 51	HD 167570	18166−2033
1985.4899	133.4	0.254	549/22 3.8
ADS 11224	B 386	HD 167702	18176−2752
1983.4227	31.9:	0.454:	549/22 3.8
HR 6851	CHR 68	HD 168199	18180+1347
1994.6997	53.4	0.047	549/22 3.8
ADS 11240	Bu 639 AB	HD 168021	18187−1837
1988.2584	141.7	0.472	549/22 3.8
ADS 11260	Hu 197	HD 168499	18197+1016
1996.6930	90.6	0.431	549/22 2.5
BD +20°3741	Cou 202	HD 168743	18205+2055
1983.7098	267.4	0.265	549/22 3.8
ADS 11311	Stt 353 AB	HD 170000	18208+7120
1988.6656	275.9	0.369	549/22 3.8
HR 6927	Lab 5 Aa	HD 170153	18211+7244
1994.6996	236.1	0.110	549/22 3.8
BD +23°3312	Cou 418	HD 169030	18217+2356
1983.7098	250.0	0.200	549/22 3.8
1996.6930	261.7	0.181	549/22 2.5
ADS 11313	Ho 83	HD 335988	18233+2731
1988.2584	108.0	0.813	549/22 3.8
ADS 11296	Ho 566	HD 168991	18236−2610
1983.4227	154.9:	0.382:	549/22 3.8
ADS 11324	AC 11	HD 169493	18250−0135
1984.3594	356.3	0.864	549/22 1.8
ADS 11344	Stt 351 AC	HD 170109	18253+4846
1994.6996	20.4	0.725	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 11344	Hu 66 AB	HD 170109	18253+4846
1994.6996	240.8	0.287	549/22 3.8
ADS 11339	Bu 1203	HD 169725	18261+0047
1982.5083	148.8	0.392	467/16 3.8
1988.2584	146.8	0.418	549/22 3.8
HR 6928	CHR 71	HD 170200	18280+0612
1994.6997	182.8:	0.059:	549/22 3.8
1996.3243	153.7	0.072	549/22 2.5
1996.6930	155.4	0.069	549/22 2.5
ADS 11395	B 394	HD 170398	18303−2533
1983.4227	184.8:	0.214:	549/22 3.8
ADS 11454	Hu 322 AB	HD 171365	18338+1744
1996.4226	81.5	0.152	549/22 2.5
1996.6930	80.9	0.155	549/22 2.5
ADS 11454	Wak 21 CD	HD 171365	18338+1744
1985.4846	76.7:	0.319:	549/22 3.8
1996.4226	80.2	0.395	538/76 2.5
ADS 11468	A 1377 AB	HD 171779	18339+5221
1989.7112	104.3:	0.266:	549/22 3.8
1996.3215	111.3	0.253	549/22 2.5
1996.6929	111.1	0.253	549/22 2.5
HR 6977	CHR 74	HD 171623	18352+1812
1994.6997	171.4	0.092	549/22 3.8
1996.6930	155.9:	0.074:	549/22 2.5
BD +21°3488	Cou 205	HD 171681	18353+2145
1996.6930	151.9	0.271	549/22 2.5
ADS 11486	Bar 10	HD 171638	18365−1159
1996.6958	233.1	0.274	549/22 2.5
ADS 11584	Stt 363	HD 173831	18374+7741
1984.3842	160.4	0.096	549/22 3.8
ADS 11524	Hu 198	HD 172171	18384+0850
1984.3760	137.6	0.456	549/22 3.8
ADS 11529	StF 2356	HD 172325	18384+2842
1985.4845	61.8	1.118	549/22 3.8
ADS 11520	A 88 AB	HD 172088	18384−0312
1994.6997	126.3	0.074	549/22 3.8
1996.4198	11.1	0.119	549/22 2.5
1996.6931	6.3	0.108	549/22 2.5
ADS 11530	Ho 87 AB	HD 172246	18386+1632
1996.6930	66.8	0.334	549/22 2.5
BD +26°3325	Cou 641	HD 336690	18406+2636
1987.7562	51.8	0.561	NF 3.8
ADS 11574	A 2988	HD 172743	18410+2450
1994.6997	132.9	0.053	549/22 3.8
ADS 11579	StF 2367 AB	HD 172865	18413+3018
1985.3369	99.5	0.121	538/76 3.0
1994.6998	82.1	0.265	549/22 3.8
1996.4198	78.9	0.280	549/22 2.5
1996.6930	79.9	0.285	538+549 2.5
ADS 11593	B 2546 Aa	HD 173087	18421+3445
1982.5083	293.5	0.178	467/16 3.8
1996.3215	327.4	0.131	549/22 2.5
1996.6929	327.3	0.132	549/22 2.5
ADS 11640	Fin 332 Aab	HD 173495	18455+0530
1984.3760	132.4	0.147	549/22 3.8
1996.6930	152.9	0.071	549/22 2.5
ADS 11640	Fin 332 Bab	HD 173495	18455+0530
1995.6061	131.8	0.141	549/22 2.5
1996.3215	130.7	0.141	549/22 2.5
1996.3270	130.1	0.142	538/76 2.5
1996.7012	127.1	0.139	549/22 2.5
ADS 11667	McA 53 Aa	HD 173654	18465−0058
1986.8882	352.7	0.162	538/76 3.8
BD −08°4701	Rst 4597	HD 173611	18466−0807
1988.2584	321.3	0.441	549/22 3.8
ADS 11680	Hu 1191	HD 173950	18466+3821
1996.6984	131.6	0.094	549/22 2.5
ADS 11698	Bu 971 AB	HD 174343–44	18475+4926
1984.3842	216.0	0.303	549/22 3.8
1994.6998	215.2:	0.375:	549/22 3.8
HR 7090	Hei 72	HD 174366	18477+4904
1996.4199	224.8	0.569	549/22 2.5
BD −18°5070	Rst 3198	HD 173805–06	18480−1814
1983.4203	154.2:	0.416:	549/22 3.8
ADS 11709	Hu 326	HD 343145	18486+2330
1988.6656	183.9:	0.093:	549/22 3.8
HR 7072	Kui 88	HD 173928	18488−1836
1985.3397	165.4:	0.416:	549/22 3.0
BD +24°3555	Cou 510	HD 174932	18521+2431
1996.5292	165.9	0.194	538/76 2.5
ADS 11803	A 1891	HD 175060	18542−1338
1984.7036	258.2:	0.364:	549/22 3.8
1985.4872	257.8:	0.361:	549/22 3.8
CPD −83°664	Rst 3188 AB	HD 172226	18582−8325
1989.3041	282.2:	0.432:	549/22 4.0
HR 7166	Kui 89	HD 176162	18594−1250
1988.6655	310.2	0.114	549/22 3.8
1994.7080	33.3:	0.112:	549/22 3.8
1996.3270	46.6	0.127	549/22 2.5
1996.7010	56.3	0.119	549/22 2.5
ADS 12035	A 1389	HD 238985	19050+5553
1987.7563	236.8	0.268	549/22 3.8
ADS 12033	Hu 940	BD +33°3318	19055+3352
1996.6984	199.1	0.551	549/22 2.5
ADS 12032	Ho 95	HD 177936	19057+2717
1987.7590	173.1	0.178	538/76 3.8
ADS 12040	StF 2454 AB	HD 178091	19062+3026
1982.7651	281.8	1.224	549/22 3.8
1984.3788	282.0	1.229	549/22 3.8
1984.7091	282.4	1.239	549/22 3.8
1984.7117	282.6	1.235	549/22 3.8
1996.6984	283.7	1.290	549/22 2.5
HR 7248	Hei 568	HD 178125	19070+1104
1995.7620	296.7	0.310	549/22 2.5
1996.3270	295.2	0.308	549/22 2.5
1996.5372	294.7	0.310	549/22 2.5
1996.7012	294.9	0.310	549/22 2.5
HR 7263	CHR 83	HD 178476	19081+2142
1984.3842	58.4	0.080	549/22 3.8
ADS 12079	Ho 98 AB	HD 178617	19083+2706
1984.3842	89.0	0.264	549/22 3.8
ADS 12078	Ho 99 AB	BD +30°3432	19081+3031
1987.7563	159.9	0.383	549/22 3.8
BD +12°3818	McA 54	HD 178452–53	19082+1215
1994.7080	182.9	0.159	549/22 3.8
GJ 747.2	Cou 1462	BD +33°3339	19089+3404
1994.7079	216.1	0.142	538/76 3.8
ADS 12101	CHR 84 Aa	HD 178911	19091+3436[b]
1994.7079	229.2	0.090	538/76 3.8
1995.3141	201.9:	0.098:	549/22 2.5
1996.4199	160.4:	0.092:	549/22 2.5
ADS 12144	A 1391 AB	HD 234826	19106+5429
1996.6985	323.5:	0.141:	549/22 2.5
ADS 12126	A 95	HD 179002	19110−0726
1982.5084	72.2	0.276	467/16 3.8
ADS 12145	Se 2 BC	HD 179484	19111+3847
1996.6984	81.2:	0.510:	549/22 2.5
ADS 12160	Bu 139 AB	HD 179588	19126+1651
1994.7080	136.9	0.660	549/22 3.8
1996.3270	137.3	0.660	538/76 2.5
1996.7012	136.8	0.650	549/22 2.5
ADS 12239	Stt 371 AB	HD 180553	19159+2727
1982.5084	160.2	0.879	467/16 3.8
HR 7318	2 Vul	HD 180968	19177+2302
1994.7080	…	<0.036	549/22 3.8
1995.4397	…	<0.055	549/22 2.5
BD +19°3972	Cou 321	HD 181025	19180+2012
1996.6985	317.7	0.102	549/22 2.5
HR 7338	Miu 1	HD 181470	19190+3727[a]
1996.4309	179.2	0.136	549/22 2.5
1996.6984	179.7	0.133	549/22 2.5
AG +28°1963	Cou 1022	BD +28°3295	19201+2849
1996.4227	140.6	0.158	538/76 2.5
BD +26°3530	Cou 1023	HD 338193	19204+2631
1996.5292	145.6	0.259	538/76 2.5
ADS 12329	Hwe 47	HD 181527	19206+0256
1984.7037	310.5	0.523	549/22 3.8
ADS 12366	Bu 1129	HD 182353	19216+5223
1982.5083	2.2	0.146	467/16 3.8
1996.6985	350.2	0.221	549/22 2.5
BD +21°3773	Cou 513	HD 182695	19251+2213
1996.4227	359.0	0.237	NF 2.5
ADS 12501	A 160	HD 183458	19288+2305
1983.4176	70.6	0.310	549/22 3.8
AG +29°2076	Cou 1318	BD +29°3617	19300+2918
1996.5292	26.2	0.392	NF 2.5
ADS 12552	A 712	HD 184195	19302+5639
1996.6903	93.9	0.153	549/22 2.5
ADS 12540	McA 55 Aa	HD 183912	19307+2758[a]
1984.7010	169.0	0.413	549/22 3.8
1989.7112	156.3:	0.406:	467/16 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1994.7080	143.6	0.393	549/22 3.8	1996.6903	11.4	0.163	549/22 2.5
1996.4227	139.0	0.384	549/22 2.5	ADS 13104	StF 2597	HD 188405	19553−0644
1996.6984	138.1	0.385	549/22 2.5	1996.5293	105.4	0.377	549/22 2.5
BD +58°1929	McA 56	HD 184467	19311+5835	BD +31°3841	Cou 1469	HD 331523	19553+3146
1994.7080	292.1	0.062	549/22 3.8	1996.4227	211.9	0.258	538/76 2.5
1996.6903	255.0	0.111	549/22 2.5	BD +23°3838	Cou 1036	HD 345176	19554+2341
ADS 12567	A 713	HD 184242	19313+4729	1996.5400	199.3	0.288	NF 2.5
1984.7037	271.1	0.364	549/22 3.8	ADS 13148	YR 2 Aa	HD 189037	19556+5226[a]
ADS 12600	Ho 108	HD 184470	19333+3329	1996.5431	106.2	0.083	549/22 2.5
1996.4227	20.8	0.241	549/22 2.5	1996.6931	105.7	0.082	549/22 2.5
1996.6904	20.8	0.240	549/22 2.5	ADS 13156	A 604	HD 188914	19573+0513
HR 7436	CHR 87	HD 184603	19336+3846[a]	1996.5321	52.6	0.150	549/22 2.5
1994.7080	40.7	0.100	549/22 3.8	ADS 13176	AC 16 AB	HD 189214	19579+2715
1996.6904	58.5	0.081	549/22 2.5	1983.4176	234.2	0.433	549/22 3.8
HR 7441	WRH 32	HD 184759	19348+2928	ADS 13186	Stt 392 AB	HD 189377	19579+4216
1986.8856	8.4:	0.044:	549/22 3.8	1996.5403	183.6	0.113	549/22 2.5
ADS 12656	Hu 679	HD 185082	19351+5038	ADS 13198	StF 2609	HD 189432	19586+3806
1996.6903	235.6	0.328	549/22 2.5	1989.7113	24.0:	1.989:	538/76 3.8
BD +63°1544	Mlr 56 AB	HD 185977	19376+6344	HR 7637	Ho 276	HD 189340	19598−0957
1984.7039	104.8:	0.107:	549/22 3.8	1996.5320	331.8	0.163	549/22 2.5
BD +01°4050	Hei 176	HD 185198	19379+0130	BD +34°3840	Cou 1947	HD 189983	20016+3435
1996.5293	146.2	0.217	538/76 2.5	1996.5402	91.2	0.286	538/76 2.5
ADS 12746	Hu 953	HD 185696	19389+3514	ADS 13277	Stt 395	HD 190004	20020+2456
1996.6904	287.2	0.204	549/22 2.5	1982.5084	120.6	0.835	467/16 3.8
BD +26°3631	Cou 822	HD 185819	19400+2712	1984.4551	121.3	0.865	549/22 1.8
1983.7098	144.5	0.233	549/22 3.8	1989.7113	120.7:	0.870:	549/22 3.8
1996.4227	140.6	0.211	549/22 2.5	HR 7684	CHR 91	HD 190781	20045+4814
BD +30°3687	Cou 1164	HD 331100	19404+3118	1985.8425	205.1	0.354	549/22 3.8
1996.6904	330.6:	0.350:	549/22 2.5	1996.5403	208.4	0.377	549/22 2.5
BD +31°3715	Cou 1163 Aa	HD 331099	19404+3121	HR 7677	CHR 92	HD 190590	20050+2313
1996.4227	176.5	0.138	538/76 2.5	1994.7025	84.9	0.059	549/22 3.8
ADS 12775	CHR 88 Aa	HD 185762	19407−0037[b]	ADS 13461	Stt 400	HD 191854	20102+4357
1990.3445	336.0:	0.084:	549/22 4.0	1994.7080	353.1	0.405	549/22 3.8
1995.4398	227.2	0.076	549/22 2.5	1996.5403	349.3	0.440	549/22 2.5
1994.7080	241.1	0.078	549/22 3.8	ADS 13508	A 282 AB	HD 192124	20120+3429
1996.5293	205.2	0.086	549/22 2.5	1989.7139	…	<0.036	538/76 3.8
1997.4604	191.0	0.081	538/76 2.5	1996.5402	204.3	0.173	549/22 2.5
HR 7499	Kui 94	HD 186307	19420+4015	ADS 13493	Bu 1205	HD 191841	20123−0806
1996.4200	177.6	0.216	549/22 2.5	1984.7039	236.3	0.287	549/22 3.8
1996.6904	177.8	0.224	549/22 2.5	BD +22°3963	Cou 123	HD 346003	20123+2248
ADS 12808	Stt 380 AB	HD 186203	19426+1150	1984.7039	238.8	0.260	549/22 3.8
1989.7112	77.1:	0.444:	549/22 3.8	BD +30°3951	Cou 1475	HD 333792	20140+3031
1994.7080	76.9	0.425	549/22 3.8	1996.5402	69.3	0.209	NF 2.5
1996.5293	76.5	0.414	549/22 2.5	ADS 13564	A 1204	HD 192559	20144+3129
ADS 12864	AGC 10 AB	HD 186587	19449+1047	1983.4176	138.0:	0.351:	549/22 3.8
1985.4901	141.0:	0.258:	538/76 3.8	1988.6575	139.6	0.359	538/76 3.8
ADS 12906	A 1404 AB	HD 186996	19459+3953	1994.7025	141.2	0.364	549/22 3.8
1996.4200	289.0	0.180	538/76 2.5	BD +37°3845	Cou 2416	HD 192744	20151+3742
1996.6904	289.6	0.183	549/22 2.5	1996.6986	2.0	0.095	549/22 2.5
ADS 12924	A 2993	HD 186949	19474−0148	ADS 13589	Bu 983 AB	HD 192685	20153+2536
1996.6985	319.2	0.193	549/22 2.5	1996.4337	179.3	0.531	549/22 2.5
HR 7536	Bla 6	HD 187076	19474+1832	ADS 13611	A 2095 AB	HD 192911	20157+4339
1987.7620	30.9	0.051	549/22 3.8	1983.4176	161.3:	0.182:	549/22 3.8
1988.6575	10.8	0.050	549/22 3.8	HR 7755	CHR 93	HD 192983	20157+5014
ADS 12962	StF 2583 AB	HD 187259	19487+1149	1989.7061	182.7	0.141	549/22 3.8
1984.7117	108.5	1.444	549/22 3.8	HR 7744	McA 60 Aa, B	HD 192806	20158+2749
ADS 12961	A 1658	HD 187283	19487+1504	1989.7112	142.1:	0.284:	549/22 3.8
1996.6985	159.3	0.209	549/22 2.5	1994.7000	143.9	0.272	549/22 3.8
BD +18°4252	McA 58	HD 187321–22	19487+1852	1996.5402	144.3	0.256	549/22 2.5
1987.7620	98.2	0.413	549/22 3.8	BD +19°4355	Cou 219	HD 193079	20177+2025
1994.7080	99.0	0.413	549/22 3.8	1987.7538	110.4	0.391	538/76 3.8
ADS 12972	Stt 387	HD 187458	19487+3519	ADS 13728	A 1427 AB	HD 193702	20203+3924
1996.5430	146.9	0.627	549/22 2.5	1996.5294	116.4	0.315	549/22 2.5
ADS 12973	AGC 11 AB	HD 187362	19490+1909	1996.6960	116.6	0.312	549/22 2.5
1994.7080	157.9	0.231	549/22 3.8	ADS 13777	A 288	HD 194113	20231+2052
1996.5292	153.5	0.208	549/22 2.5	1996.5399	253.0	0.148	538/76 2.5
ADS 12986	A 718 BC	HD 187613	19490+4423	ADS 13809	Wor 33 Aa	HD 194283	20244+1213
1985.8370	36.6	0.213	549/22 3.8	1988.6630	139.7	0.485	538/76 3.8
HR 7571	CHR 90	HD 187949	19531−1436	BD +23°4004	Cou 125	HD 194359	20244+2417
1994.7079	159.9	0.192	549/22 3.8	1985.4902	115.2	0.366	549/22 3.8
1996.5320	145.8:	0.149:	549/22 2.5	BD +60°2125	Mlr 503	HD 194932	20251+6118
HR 7592	Dju 4	HD 188260	19535+2405	1984.7012	33.1	0.172	549/22 3.8
1989.7113	245.2:	1.190:	549/22 3.8	ADS 13850	A 730	HD 194882	20251+5935
BD +32°3614	Cou 1626	HD 226401	19539+3257	1982.5084	328.6	0.225	467/16 3.8
1996.6904	98.3:	0.161:	549/22 2.5	ADS 13887	SHJ 323 AB	HD 194943	20289−1749
ADS 13125	Ho 581	HD 188753	19550+4152	1982.7598	204.8	0.760	NF 3.8
1996.4199	69.6	0.361	538/76 2.5	ADS 13894	A 610	HD 195090	20290+0710
1996.6903	72.1	0.355	549/22 2.5	1996.5321	41.8	0.359	538/76 2.5
ADS 13135	Hu 687	HD 188871	19549+5049	1996.6987	42.3:	0.363:	549/22 2.5
1982.5083	347.1:	0.140:	467/16 3.8	Vyss 67	Wor 9 AB	HD 340345	20302+2651
1996.4199	12.1	0.162	538/76 2.5	1983.4287	315.8	1.023	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1984.4443	315.5	0.985	550/89 1.8	ADS 14412	A 751	HD 199306	20537+5918
ADS 13920	Bu 63 AB	HD 195325	20303+1054	1994.7000	111.0	0.160	549/22 3.8
1996.7013	349.5:	0.915:	549/22 2.5	ADS 14430	StF 2735	HD 199223	20557+0432
HR 7837	Fin 336	HD 195330	20311−1503	1982.7598	282.9	2.052	NF 3.8
1996.5320	283.5	0.113	549/22 2.5	ADS 14473	A 755	HD 199739	20567+5656
ADS 13944	A 1675	HD 195481	20311+1548	1996.5375	184.9	0.086	549/22 2.5
1994.7025	148.0	0.081	549/22 3.8	ADS 14499	StF 2737 AB	HD 199766	20591+0418
AG +33°1959	Cou 1962	BD +33°3930	20311+3333	1984.7118	286.3	0.985	549/22 3.8
1984.7013	234.3:	0.074:	549/22 3.8	ADS 14526	McA 65 Aa	HD 200120	20598+4731
1994.7000	294.6	0.225	538/76 3.8	1996.5375	29.5	0.196	549/22 2.5
1996.5402	299.4	0.154	538/76 2.5	HR 8038	Kui 102	HD 199942	21001+0731
ADS 13946	Da 1 BC	HD 195482	20312+1116[b]	1982.5084	63.0	0.278	467/16 3.8
1985.8396	298.0	0.109	549/22 3.8	1996.5377	19.2	0.360	549/22 2.5
1989.7061	315.9:	0.106:	549/22 3.8	BD +23°4216	Cou 128	HD 200290	21019+2340
1994.7025	340.7	0.084	549/22 3.8	1985.4902	138.6	0.194	538/76 3.8
1996.5399	348.8	0.071	549/22 2.5	ADS 14585	Bu 1138 AB	HD 200595	21028+4551
ADS 13946	CHR 99 Aa	HD 195482	20312+1116	1985.8398	170.0	0.069	549/22 3.8
1985.8396	127.0	0.342	549/22 3.8	ADS 14634	Hu 765 BC	HD 201267	21055+6210
1994.7025	132.2:	0.368:	549/22 3.8	1986.8856	32.8	0.732	538/76 3.8
1996.5399	132.9	0.364	549/22 2.5	AG +26°2446	Cou 527 Aa	BD +26°4074	21065+2655
1996.7013	132.1:	0.370:	549/22 2.5	1988.6631	333.3:	0.372:	549/22 3.8
ADS 13964	StF 2695	HD 195692	20320+2548	1987.7566	334.1	0.379	538/76 3.8
1996.7013	241.1	0.186	549/22 2.5	ADS 14648	Bu 368 AB	HD 201038	21074−0814
ADS 13961	See 512	HD 195536	20325−1637	1994.7081	275.7	0.193	549/22 3.8
1996.5320	105.3:	0.131:	538/76 2.5	AG +29°2499	Cou 1332	BD +28°4003	21091+2922
BD +49°3310	McA 61	HD 196089	20330+4950	1996.5376	19.2	0.217	538/76 2.5
1994.7000	203.7	0.067	549/22 3.8	ADS 14749	StF 2780 Aa, B	HD 202214	21118+5959
1996.5403	211.4	0.074	549/22 2.5	1994.7001	214.5	1.049	549/22 3.8
HR 7866	WRH 34 AB	HD 196093	20339+3515	ADS 14749	McA 67 Aa	HD 202214	21118+5959
1982.7571	279.7	0.284	549/22 3.8	1994.7001	1.2:	0.052:	549/22 3.8
ADS 14073	Bu 151 AB	HD 196524	20375+1436	ADS 14761	Hu 767	HD 202128	21135+1559
1994.7025	287.9	0.220	549/22 3.8	1996.5376	138.2	0.194	549/22 2.5
1996.5293	317.9	0.322	549/22 2.5	ADS 14784	StF 2783	HD 202519	21141+5818
1996.5399	318.2	0.323	549/22 2.5	1982.5084	7.4	0.762	467/16 3.8
ADS 14099	Hu 200 AB	HD 196662	20393−1457	ADS 14773	Stt 535 AB	HD 202275	21145+1000
1985.3370	112.2	0.350	549/22 3.0	1996.5295	17.5	0.270	549/22 2.5
1985.3370	111.6	0.347	467/16 3.0	1996.5377	17.6	0.270	549/22 2.5
BD +04°4510	Kui 99	HD 196795	20396+0458	ADS 14775	A 883 AB	HD 202260	21147−0050
1996.6906	126.0	0.635	549/22 2.5	1994.7026	2.2	0.112	549/22 3.8
1996.8624	126.4	0.623	549/22 2.5	1996.5377	353.0	0.120	549/22 2.5
ADS 14126	Stt 410 AB	HD 197018	20396+4035	ADS 14787	AGC 13 AB	HD 202444	21148+3803
1985.8396	6.3	0.838	549/22 3.8	1982.5084	124.7	0.659	467/16 3.8
ADS 14121	Wck 2 Aa	HD 196867	20396+1555	ADS 14864	Bag 9 Aa	HD 203338	21193+5837
1994.7026	185.7	0.207	549/22 3.8	1994.7001	121.6	0.113	549/22 3.8
1996.5294	164.7	0.178	549/22 2.5	1996.5375	121.8	0.112	549/22 2.5
1996.5376	163.7	0.179	549/22 2.5	ADS 14879	A 295	HD 203302	21206+2743
HR 7922	McA 62	HD 197226	20410+3905	1987.7539	245.4	0.369	538/76 3.8
1985.8396	104.0	0.082	549/22 3.8	ADS 14893	A 617	HD 203345	21214+1020
AG +34°2072	Cou 1965	BD +34°4128	20424+3455	1982.7600	272.5	0.170	NF 3.8
1996.5376	273.0:	0.343:	538/76 2.5	1994.7081	94.3	0.176	549/22 3.8
BD +39°4290	Cou 2421	BD +39°4290	20432+4026	1996.5376	76.4	0.124	549/22 2.5
1996.5375	103.1	0.323	NF 2.5	ADS 14954	Bu 164 AB	HD 203943	21251+0923
BD +40°4297	Cou 2423	BD +40°4297	20444+4103	1996.5377	190.2	0.119	549/22 2.5
1996.5375	178.5	0.265	NF 2.5	BD +17°4577	Cou 430	HD 203991	21252+1828
ADS 14233	StF 2723 AB	HD 197684	20449+1219	1983.4259	234.7	0.628	549/22 3.8
1982.5057	126.8	1.091	549/22 3.8	1983.7101	234.2:	0.628:	549/22 3.8
1982.7596	125.6	1.110	NF 3.8	ADS 14958	A 887 AB	HD 204011	21254+1121
1983.4287	123.8	1.093	549/22 3.8	1996.5376	178.7	0.107	549/22 2.5
ADS 14238	Bu 64 AB	HD 197683	20450+1244	ADS 14960	A 2289 AB	HD 203993	21255+0203
1989.7061	166.3	0.650	538/76 3.8	1996.5377	344.9	0.094	549/22 2.5
1994.6998	167.7	0.668	549/22 3.8	HR 8246	CHR 102	HD 205314	21329+4959
HR 7958	Kui 101	HD 198151	20466+4632	1985.8397	68.1	0.057	549/22 3.8
1984.7013	109.0	0.396	549/22 3.8	ADS 15103	Stt 442	HD 205599	21339+6148
1985.4902	108.8	0.377	549/22 3.8	1989.6188	323.6:	0.237:	538/76 1.8
1996.5375	111.8	0.280	549/22 2.5	HR 8274	CHR 104	HD 206027	21387+2530[a]
BD +43°3720	Cou 2425	BD +43°3720	20473+4345	1985.8398	206.0:	0.104:	549/22 3.8
1996.8679	56.2	0.227	538/76 2.5	ADS 15176	Bu 1212 AB	HD 206058	21395−0003
ADS 14296	Stt 413 Aa, B	HD 198183	20474+3629	1982.5085	243.0	0.346	467/16 3.8
1985.3370	15.8	0.837	549/22 3.0	1986.8910	252.7	0.430	549/22 3.8
1996.5376	10.4	0.860	549/22 2.5	1988.6658	257.0	0.458	549/22 3.8
ADS 14306	Bu 268	HD 198253	20477+4204	1994.7081	266.5	0.513	549/22 3.8
1985.8396	202.0	0.430	549/22 3.8	1996.5349	269.0	0.519	549/22 2.5
ADS 14333	J 194 AB	BD +10°4385	20494+1124	ADS 15182	A 772	HD 206168	21395+3009
1982.5057	198.7	0.766	549/22 3.8	1996.6960	199.5	0.094	549/22 2.5
1983.4259	197.4	0.774	549/22 3.8	ADS 15236	Hu 280	HD 206512	21423+0555
ADS 14372	A 2286 AB, C	HD 198706	20521+0205	1996.5349	154.5	0.201	549/22 2.5
1996.5377	44.8:	0.992:	538/76 2.5	HR 8300	Kui 108	HD 206644	21424+4105
HR 7990	McA 64	HD 198743	20527−0859	1994.7081	328.1	0.149	549/22 3.8
1996.5377	136.6	0.058	549/22 2.5	1996.5350	304.3	0.119	549/22 2.5
ADS 14404	Ho 146	HD 199071	20536+3514	ADS 15251	Bu 688 AB	HD 206656	21426+4103
1986.8966	47.8	0.353	549/22 3.8	1983.4341	204.1	0.335	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
ADS 15267	Ho 166	HD 206792	21439+2751	ADS 15971	StF 2909 AB	HD 213051–52	22288−0001
1996.5350	45.4	0.259	549/22 2.5	1996.8682	192.3	1.916	549/22 2.5
ADS 15270	StF 2822 AB	HD 206826–27	21441+2845	HR 8572	McA 71	HD 213310	22295+4742
1984.4471	298.4	2.046	549+550 1.8	1987.7594	46.2	0.117	549/22 3.8
ADS 15281	Bu 989 AB	HD 206901	21446+2539	ADS 15988	StF 2912	HD 213235	22300+0426
1994.7081	195.6	0.089	549/22 3.8	1982.5085	118.4	0.743	467/16 3.8
1996.5349	134.0	0.187	549/22 2.5	1986.8939	116.6	0.680	538/76 3.8
ADS 15300	A 1223 AB	HD 207033	21459+1153	1994.7081	118.8	0.491	549/22 3.8
1996.5349	29.5:	0.143:	538/76 2.5	1996.5295	117.3	0.463	549/22 2.5
HR 8335	Miu 3	HD 207330	21468+4919	1996.5432	117.6	0.467	549/22 2.5
1996.5350	129.4	0.105	549/22 2.5	ADS 15992	Hu 388	HD 213315	22302+2228
ADS 15336	Hu 378	HD 207380	21481+2100	1996.5322	54.7	0.477	538/76 2.5
1996.5349	321.4	0.214	538/76 2.5	AG +22°2442	Vou 38 AB	BD +21°4772	22305+2232
HR 8344	Cou 14	HD 207652	21501+1718	1996.5322	211.2:	0.162:	538/76 2.5
1994.7081	224.9	0.336	549/22 3.8	LTT 16615	Kui 112 Aa	BD +53°2911	22329+5348
1996.5295	232.7	0.379	549/22 2.5	1996.5321	252.3	0.714	NF 2.5
ADS 15375	Ho 170	HD 207782	21504+3927	ADS 16046	Hu 1320	HD 213776	22329+4923
1983.4341	237.5	0.311	549/22 3.8	1996.6987	334.6	0.312	549/22 2.5
BD +09°4913	Hei 599 Aa, B	HD 207758	21511+1022	ADS 16057	StF 2924 AB	HD 213973	22330+6955
1995.7596	77.2	0.216	549/22 2.5	1982.5085	89.7	0.439	467/16 3.8
1996.5349	76.1	0.213	549/22 2.5	1984.7042	91.6	0.426	549/22 3.8
HR 8355	Fin 358 AB	HD 208008	21536−1019	ADS 16072	Hu 983	HD 214051	22339+6550
1996.5348	110.4	0.136	549/22 2.5	1984.7042	224.4	0.076	549/22 3.8
ADS 15435	A 620	HD 208341	21545+4403	AG +38°2339	Cou 1488	BD +37°4616	22341+3823
1988.6576	280.3	0.343	538/76 3.8	1996.5322	44.3	0.305	NF 2.5
ADS 15431	Cou 432 BC	HD 208202	21543+1943	ADS 16073	A 1468	HD 213990	22342+5405
1996.5349	211.5	0.139	538/76 2.5	1995.6094	255.4	0.255	538/76 2.5
ADS 15444	Ku 62	HD 208377	21550+3843	BD +25°4767	Cou 540	HD 213919	22344+2623
1984.7118	52.9:	1.646:	549/22 3.8	1996.5322	304.8	0.297	NF 2.5
ADS 15447	Bu 75 AB	HD 208348	21555+1053	ADS 16098	A 1470	HD 214222	22357+5312
1996.5349	13.3	0.714	549/22 2.5	1994.7083	86.3	0.146	549/22 3.8
ADS 15454	A 1449	HD 208490	21556+3849	1996.5321	95.6	0.169	538/76 2.5
1996.6960	74.2	0.204	549/22 2.5	BD +53°2924	Mlr 3	HD 214221	22357+5413
ADS 15478	A 622	HD 208610	21572+1047	1996.5321	9.8	0.119	538/76 2.5
1987.7594	303.3	0.152	538/76 3.8	1996.6962	9.3	0.125	549/22 2.5
1996.5349	299.5	0.130	549/22 2.5	ADS 16113	Cou 737 Aa	BD +25°4776	22372+2645
ADS 15487	A 1226	HD 208687	21573+3241	1996.5322	4.2	0.175	NF 2.5
1996.5350	215.5	0.132	549/22 2.5	BD +68°1319	CHR 113	HD 214606	22373+6913
ADS 15530	Hu 774	HD 209103	21597+4907	1994.7083	0.1:	0.534:	549/22 3.8
1983.4341	317.3	0.174	549/22 3.8	AG +15°2547	Hei 86	BD +15°4683	22375+1607
1996.5350	339.8	0.185	549/22 2.5	1996.5323	288.9	0.300	NF 2.5
BD −10°5812	Rst 4095	HD 209208	22018−0952	HR 8617	CHR 114	HD 214558	22383+4511[a]
1996.5348	182.2	0.125	549/22 2.5	1994.7081	193.9	0.105	549/22 3.8
AG +26°2642	Cou 537	BD +25°4677	22077+2622	1996.5321	205.5	0.114	549/22 2.5
1994.7081	197.8	0.070	549/22 3.8	ADS 16130	A 2695	HD 214448	22384−0754
1996.5350	241.6	0.098	538/76 2.5	1985.8398	136.8	0.135	549/22 3.8
BD +22°4563	Cou 136	HD 210444	22100+2308	ADS 16131	Ho 479	HD 214494	22385+0218
1982.5085	44.6	0.393	467/16 3.8	1996.5432	94.7	0.487	NF 2.5
1983.4341	44.2	0.406	549/22 3.8	BD +80°731	McA 72	HD 215319	22394+8124
1996.5349	33.1	0.484	549/22 2.5	1987.7621	94.3:	0.145:	549/22 3.8
BD +23°4482	Egg 4	HD 210595	22110+2429	ADS 16157	A 2099	HD 214699	22400+0113
1996.5349	152.1	0.529	538/76 2.5	1996.5432	160.9	0.682	NF 2.5
ADS 15720	A 1457	HD 210787	22114+5259	ADS 16164	Ho 188	HD 214807	22402+3732[a]
1996.5350	109.9	0.178	549/22 2.5	1983.7102	201.6	0.322	549/22 3.8
ADS 15756	Bu 991	HD 211113	22136+5234	1995.6095	213.0	0.370	538/76 2.5
1983.4341	139.3	0.656	549/22 3.8	1996.5322	212.2	0.375	538+NF 2.5
ADS 15758	McA 70 Ab	HD 211073	22139+3943	HR 8629	Kui 114	HD 214810	22408−0333
1982.5085	8.1:	0.502:	467/16 3.8	1996.5323	309.4	0.366	549/22 2.5
1982.7654	7.7	0.499	549/22 3.8	ADS 16173	Ho 296 AB	HD 214850	22409+1433
1996.5350	13.7:	0.411:	549/22 2.5	1994.7083	51.7	0.480	549/22 3.8
BD +63°1823	Mlr 58	HD 211553	22159+6413	1996.5323	45.1	0.444	549/22 2.5
1986.8857	105.9	0.462	538/76 3.8	ADS 16214	Hu 91 BC	HD 215242	22431+4710
AG +34°2295	Cou 1191	BD +33°4470	22164+3438	1996.5321	34.2	0.079	549/22 2.5
1996.5350	206.2	0.466	538/76 2.5	ADS 16214	Stt 476 AB	HD 215242	22431+4710
ADS 15896	Cou 139 CD	BD +20°5138	22237+2051	1982.5085	309.8	0.485	467/16 3.8
1984.7041	67.3	0.403	549/22 3.8	1996.5321	302.2	0.491	549/22 2.5
1985.8425	67.3	0.403	549/22 3.8	ADS 16249	Hu 783	HD 215590	22454+5129
1994.7081	74.2	0.403	549/22 3.8	1996.5321	191.1	0.193	538/76 2.5
1996.5322	76.1:	0.395:	538/76 2.5	ADS 16314	Ho 482 AB	HD 216285	22514+2623
ADS 15902	Bu 172 AB	HD 212404	22241−0450	1982.5085	35.3	0.343	467/16 3.8
1996.5323	75.9	0.234	549/22 2.5	1996.5322	25.3	0.439	549/22 2.5
AG +42°2172	Cou 1986	BD +42°4396	22263+4308	BD +43°4326	Cou 2244	HD 216488	22527+4347
1996.5322	10.8	0.474	NF 2.5	1996.5322	267.7	0.209	538/76 2.5
ADS 15934	SHJ 345 AB	HD 212697–98	22266−1645	ADS 16345	Bu 382 AB	HD 216608	22537+4445
1996.8682	358.5	1.880	549/22 2.5	1984.7069	211.2	0.951	549/22 3.8
BD +39°4837	Cou 1642	HD 212900	22268+4033	1984.8434	210.5	0.945	538/76 1.8
1996.5322	83.8	0.171	538/76 2.5	BD +22°4742	Cou 240	HD 216879	22564+2257
ADS 15956	Bu 291 AB	HD 212923	22277+0431	1984.7041	290.6	0.731	549/22 3.8
1996.5432	222.6	0.267	538/76 2.5	1985.4904	290.4	0.728	549/22 3.8
ADS 15962	Bu 701 AB	HD 212989	22281+1215	BD +23°4640	Cou 542 Aa	HD 216963	22570+2441
1984.7119	203.6:	0.942:	549/22 3.8	1983.7101	107.2	0.162	549/22 3.8

TABLE 2—*Continued*

Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.	Star Name Date (BY)	Discov. Desig. θ (deg)	HD/DM ρ (arcsec)	WDS Filter, Tel.
1984.7041	125.8	0.125	549/22 3.8	BD +63°1995	Mlr 72	HD 220907	23269+6414
1994.7083	321.0	0.193	549/22 3.8	1986.8914	160.4:	0.198:	538/76 3.8
1996.5322	335.9	0.220	538/76 2.5	1994.7083	165.6	0.184	549/22 3.8
ADS 16417	Stt 536 AB	HD 217166	22586+0921	BD +41°4791	Cou 1847	HD 221102	23288+4225
1982.5085	347.0	0.323	467/16 3.8	1986.8912	31.9	0.093	549/22 3.8
1996.5295	347.1	0.195	549/22 2.5	ADS 16800	Bu 1266 AB	HD 221264	23304+3050
1996.5432	347.0	0.196	549/22 2.5	1994.7002	54.7:	0.209:	549/22 3.8
ADS 16428	Stt 483	HD 217232	22592+1144	1996.5404	47.4	0.190	549/22 2.5
1984.7041	305.1	0.581	549/22 3.8	1996.8628	43.2	0.188	549/22 2.5
1994.7083	324.9	0.521	549/22 3.8	ADS 16806	Bu 774	HD 221333	23307+6419
1996.5323	328.4	0.508	549/22 2.5	1987.7568	338.9:	0.642:	NF 3.8
HR 8762	WRH 37 Aa, B	HD 217675	23019+4220	ADS 16819	Hu 298	HD 221445	23322+0705
1996.5297	328.9	0.105	549/22 2.5	1994.7029	299.6	0.180	549/22 3.8
ADS 16457	A 194	HD 217712	23020+4800	1996.5323	314.4	0.194	549/22 2.5
1985.8398	294.8	0.135	549/22 3.8	AG +19°2431	Cou 340	BD +18°5163	23322+1942
1996.5404	290.5:	0.174:	549/22 2.5	1996.5403	56.3:	0.284:	NF 2.5
ADS 16463	Hu 398	HD 217716	23024+1837	ADS 16836	Bu 720	HD 221673	23340+3120
1996.5403	271.3:	0.425:	538/76 2.5	1984.0601	82.2	0.510	549/22 3.8
ADS 16467	Bu 1147 AB	HD 217782	23026+4245	1996.5323	91.2	0.531	549/22 2.5
1985.8398	339.3	0.401	549/22 3.8	1996.7018	90.9	0.532	549/22 2.5
1996.6990	349.6	0.362	549/22 2.5	ADS 16873	Fox 102 AB	HD 222068	23374+0737
BD +63°1925	Mlr 70	HD 218179	23048+6405	1996.5377	346.2	0.188	538/76 2.5
1984.7043	252.3:	0.583:	549/22 3.8	ADS 16880	Hu 1324	…	23378+6601
1988.6577	251.9:	0.579:	549/22 3.8	1994.7083	341.7:	0.360:	538/76 3.8
ADS 16497	A 417 AB	HD 218060	23052−0742	ADS 16886	A 1493	HD 222186	23382+5514[a]
1996.5295	133.6	0.185	549/22 2.5	1995.7705	341.3	0.144	549/22 2.5
ADS 16505	A 196	HD 218196	23055+4643	1996.5405	339.7:	0.133:	538/76 2.5
1983.7102	317.1	0.476	549/22 3.8	ADS 16904	A 643 Aa, B	HD 222326	23393+4543
ADS 16538	Stt 489 AB	HD 218658	23079+7523	1996.5404	154.2:	0.226:	549/22 2.5
1984.0573	332.0	0.543	549/22 3.8	BD +45°4301	Mlr 4	HD 222516	23411+4613
ADS 16539	A 1238 AB	HD 218550	23088+1058	1996.5404	180.0	0.105	549/22 2.5
1996.5377	153.5	0.290	538/76 2.5	ADS 16941	A 1495	HD 222672	23425+5436
HR 8817	Rst 3320	HD 218640	23099−2227	1987.7540	181.0	0.467	538/76 3.8
1982.5087	323.6	0.293	467/16 3.8	1995.7705	183.1	0.488	549/22 2.5
ADS 16561	Bu 385 AB	HD 218767	23103+3229	HR 9003	McA 75 Aab	HD 223047	23460+4625
1987.7567	91.2	0.644	549/22 3.8	1982.5087	286.8	0.271	467/16 3.8
1988.6659	91.3	0.649	549/22 3.8	1994.7083	280.7:	0.313:	549/22 3.8
ADS 16576	Ho 197 AB	HD 218917	23114+3813	1996.5323	280.7	0.309	549/22 2.5
1996.6990	308.7:	0.306:	549/22 2.5	AG +35°2467	Cou 944	BD +35°5106	23485+3608
ADS 16586	A 197	HD 219040	23123+4449	1989.7173	95.8	0.196	538/76 3.8
1987.7567	159.1:	0.475:	538/76 3.8	1995.7706	94.6	0.194	549/22 2.5
ADS 16591	A 2298	HD 219018	23126+0241	ADS 17019	B 2547 AB	HD 223331	23486+3616
1996.5297	306.5	0.167	538/76 2.5	1996.5404	13.4	0.201	549/22 2.5
ADS 16610	A 1481	BD +38°4957	23137+3931	BD +18°5223	Cou 343	HD 223402	23491+1915
1996.5404	186.2	0.154	538/76 2.5	1987.7542	115.2	0.197	538/76 3.8
ADS 16633	Bu 1220 BC	HD 219430	23159−0905	AG +61°1489	Mlr 24 AB	BD +61°2536	23493+6158
1983.7103	99.4:	0.391:	NF 3.8	1987.7568	306.2:	0.533:	NF 3.8
ADS 16645	Bu 853 AB	BD +61°2414	23168+6148	ADS 17030	A 424	HD 223486	23498+2741
1987.7568	234.0:	0.557:	NF 3.8	1982.5087	109.2	0.187	467/16 3.8
ADS 16644	Bu 182 AB	HD 219617	23171−1349	BD +18°5226	Cou 344	HD 223523	23502+1940
1994.7083	46.5:	0.819:	538/76 3.8	1996.5403	358.0:	0.182:	538/76 2.5
1996.5295	50.4:	0.764:	538/76 2.5	ADS 17036	A 792	BD +46°4184	23505+4703
ADS 16650	Hu 400	HD 219675	23176+1818	1988.6606	265.3	0.709	538/76 3.8
1996.5323	106.1	0.333	549/22 2.5	HR 9041	Fin 359	HD 223825	23529−0309
ADS 16672	McA 74 Aa	HD 219834	23191−1328	1991.8933	182.8	0.062	549/22 3.8
1994.7083	302.1	0.157	549/22 3.8	AG +43°2301	Cou 1497	BD +43°4571	23545+4408
BD +27°4530	Cou 439	HD 219963	23199+2844	1996.5404	29.9:	0.379:	538/76 2.5
1996.5404	248.7	0.164	538/76 2.5	ADS 17105	A 426	HD 224217	23561+2520
BD +33°4690	Cou 742	HD 219982	23199+3444	1987.7542	316.9	0.369	538/76 3.8
1996.5404	27.1	0.230	538/76 2.5	1996.5403	307.5:	0.384:	538/76 2.5
BD +15°4809	Hei 88	HD 220077	23209+1643	ADS 17118	A 900	HD 224395	23573+7252
1996.5403	250.8	0.178	549/22 2.5	1986.8885	128.3:	0.343:	538/76 3.8
ADS 16702	Bu 718 AB	HD 220222	23219+3149	1987.7568	126.5:	0.326:	538/76 3.8
1996.8628	161.7	0.401	549/22 2.5	1988.6606	128.6:	0.329:	549/22 3.8
ADS 16708	Hu 295	HD 220278	23227−1502	1994.7083	125.1:	0.328:	538/76 3.8
1996.5295	241.6	0.137	549/22 2.5	BD −14°6588	Rst 4136 AB	HD 224512	23586−1408
BD +22°4835	Cou 338	HD 220794	23266+2342	1996.5405	6.5:	0.182:	549/22 2.5
1989.7173	46.6	0.093	538/76 3.8	ADS 17151	A 1498	HD 224646–47	23595+5441
ADS 16760	A 1485	HD 220869	23268+5434	1996.5405	85.9	0.374	538/76 2.5
1995.7705	211.0	0.568	549/22 2.5				

[a] See Appendix for comments on individual objects.
[b] New orbital elements; see Table 4 and Appendix.

portions of the data obtained during 4 m–class runs between 1993 February and 1996 March were published in duplicity surveys of occultation binaries, Be, and O stars (Mason 1996; Mason et al. 1997, 1998); the remainder of the observations obtained in these runs are presented here. Finally, only small samples of the 1996 and early 1997 Mount Wilson observations have already been published; the bulk of these measures are included here.

While all data were reduced using the same equipment and reduction routine (the DVA routine; see Bagnuolo et al. 1992), both detectors and calibration methods changed during this period. The 1982 observations were obtained

TABLE 3

TYPICAL ERRORS

Tel. (m)	$\delta\theta$ (deg)	$\delta\rho/\rho$
1.8	0.5	0.010
2.5	0.4	0.008
3.0	0.5	0.010
3.6	0.5	0.010
3.8	0.3	0.006
4.0	0.4	0.008

using our original RCA intensified CCD. This camera failed during the 1983 January run, so observations dating between 1983.06 and 1983.08 were made using an intensified silicon-intensifier target camera. A new RCA camera was used for all data presented here that were obtained between 1983.41 and 1991.894, while an ITT Industries camera was used for all subsequent observations. See McAlister et al. (1987a) and Mason et al. (1993) for further information on all these detectors.

(We note that while the DVA routine does a good job at removing the quadrant ambiguity inherent in standard vector autocorrelations, this technique does not yield relative photometry of sufficient accuracy for publication. Experiments with adaptive optics, however, have shown considerable promise in this area; see ten Brummelaar et al. [2000] for recent results using the Mount Wilson adaptive optics system.)

Absolute calibrations of all KPNO data were obtained using a slit mask mounted at the "stovepipe" baffle of the 3.8 m (see McAlister et al. 1987a). Calibration methods for the 1994–1995 Mount Wilson data are described in Hartkopf et al. (1997); the 1996–1997 data were also calibrated using the combination of slit mask and star trails described in that paper. All other data were calibrated through observations of binary stars with well-known orbits or stars having contemporaneous KPNO and/or Mount Wilson observations.

Earlier papers in this series (see, e.g., McAlister et al. 1987a; Hartkopf et al. 1994) have quoted typical errors of $\sim$0.6%, or 1–3 mas in separation and $\sim$0°.2 in position angle for 4 m–class observations. In order to obtain an estimate of errors for data from these six telescopes, 51 binaries were chosen having well-determined orbital elements. $O-C$ residuals in ρ and θ were then determined for the $\sim$400 CHARA speckle measurements made of these stars. These residuals also include errors in the orbital elements themselves, of course, and some of the telescopes were underrepresented in the collection of measurements. We therefore convolved our findings with some "educated guesswork" (considering primary vs. secondary calibration methods, amount of experience with each telescope, past orbit calculations, etc.) in coming up with reasonable estimates for typical errors. These estimates are given in Table 3.

2. NEW MEASUREMENTS

A total of 2017 observations of 1286 stars are presented in Table 2, where we use a format similar to that used in other recent papers in this series. The first line of information for each star gives four different identifiers; the first column usually lists the ADS or HR number, followed by the discoverer designation and the HD or Durchmusterung number. The coordinates in the fourth column, which also serve as the Washington Double Star Catalog (WDS) number, are for equinox J2000.0. One or more individual measures are listed below each set of star names. Here the first column gives the epoch of observation, shown as the fractional Besselian year. The second column gives the position angle in degrees; these θ-values have not been corrected for precession and are thus based upon the equinox for the epoch of observation. Angular separation in arcseconds is given in the third column, while the final column lists the filter effective wavelength and FWHM in nanometers, plus the telescope aperture in meters. This aperture size also uniquely identifies the telescope as one of the six instruments listed in Table 1. Notes to some of the stars are flagged by a footnote in the final column. Stars for which new orbital elements are presented are also flagged in the final column; all have entries in the notes as well.

3. NEW ORBITAL ELEMENTS

New orbital elements have been determined for 14 systems, five of which were discovered interferometrically and seven of which have not had orbital elements previously published. Elements are listed in Table 4, where the first two columns give the coordinates and discoverer designation of the binary, while the remaining columns list respectively the period (in years), semimajor axis (in arcseconds), inclination (in degrees), node (in degrees), time of periastron passage (in years), eccentricity, and longitude of periastron (in degrees), together with their formal errors. Systems with no previously published orbits are so indicated, and comments on all systems are listed below in the Appendix. Finally, Table 5 gives predicted separations and angles for these systems during the next few years.

We are indebted to the efforts of the staffs of these six observatories—telescope assistants, engineering staff, and administrators—in making our runs over the years so productive. Thanks also to the many observers who participated in the collection of these data. This research has made use of the Washington Double Star database, maintained at the US Naval Observatory by B. D. M. Thanks to Gary Wycoff of the USNO for checking all our measurements against the WDS for any coordinate or quadrant errors. This research has made use of the SIMBAD database, operated at CDS, Strasbourg, France. Research in speckle interferometry at Georgia State University is supported by the GSU College of Arts and Sciences, the Office of the Vice President for Research, and the Research Program Enhancement fund of the University System of Georgia. The National Science Foundation provided support for this effort, most recently through NSF grant AST 94-16994 to GSU/CHARA.

APPENDIX

COMMENTS ON INDIVIDUAL OBJECTS

00171+3841 = CHR 123: These two observations include the closest separation published here

TABLE 4

NEW ORBITAL ELEMENTS

WDS	Discoverer Designation	P (yr)	a (arcsec)	i (deg)	Ω (deg)	T_0 (yr)	e	ω (deg)
01072+3839	A 1516 AB	33.72 ± 0.15	0.131 ± 0.001	23.9 ± 1.7	104.1 ± 2.6	1997.49 ± 0.11	0.232 ± 0.008	97.1 ± 3.1
02022+3643	A 1813 AB	12.94 ± 0.04	0.150 ± 0.001	67.0 ± 0.5	191.4 ± 0.5	1989.06 ± 0.03	0.404 ± 0.007	295.1 ± 0.7
02145+6631[a].....	McA 6	32.8 ± 5.4	0.078 ± 0.003	29.7 ± 8.1	203.9 ± 9.4	1989.76 ± 0.53	0.267 ± 0.086	291 ± 15
02399+0009	A 1928	17.94 ± 0.05	0.137 ± 0.002	40.5 ± 1.6	62.8 ± 2.9	1973.26 ± 0.09	0.469 ± 0.008	348.2 ± 4.0
03151+1618[a].....	Hu 1055 AB	100.5 ± 4.6	0.442 ± 0.045	126.0 ± 7.0	227 ± 16	1991.30 ± 0.69	0.975 ± 0.006	286 ± 10
04357+1010[a].....	CHR 18 Aa	16.25 ± 1.15	0.220 ± 0.014	67.3 ± 1.7	147.2 ± 1.4	1996.0 ± 3.8	0.034 ± 0.029	293 ± 92
07508+0317	A 2880	106.9 ± 4.1	0.179 ± 0.004	45.9 ± 1.2	91.9 ± 1.8	1992.1 ± 0.1	0.603 ± 0.009	294.8 ± 3.5
09036+4709	A 1585	35.59 ± 0.05	0.182 ± 0.001	109.4 ± 0.4	106.0 ± 0.2	1996.88 ± 0.05	0.567 ± 0.004	356.8 ± 0.8
14375+0217[a].....	CHR 42 Aa	21.5 ± 1.4	0.136 ± 0.010	50.4 ± 6.0	134.6 ± 5.2	1994.52 ± 0.23	0.839 ± 0.019	37.5 ± 7.7
15307+3810	Hu 1163	217 ± 20	0.285 ± 0.011	23.2 ± 5.1	123 ± 12	1989.21 ± 0.49	0.603 ± 0.022	305 ± 14
17375+2419	CHR 63	9.79 ± 0.10	0.143 ± 0.003	99.7 ± 0.4	259.6 ± 0.9	1984.88 ± 0.06	0.856 ± 0.007	80.7 ± 0.5
19091+3436[a].....	CHR 84 Aa	3.54 ± 0.02	0.078 ± 0.003	142.2 ± 7.0	107 ± 18	1997.26 ± 0.12	0.624 ± 0.039	270 ± 11
19407−0037[a].....	CHR 88 Aa	21.7 ± 1.9	0.085 ± 0.006	163.0 ± 10.8	175 ± 63	1993.6 ± 2.8	0.067 ± 0.037	272 ± 110
20312+1116[a].....	Da 1 BC	272 ± 27	0.407 ± 0.016	63.7 ± 2.2	177.6 ± 2.3	1998.45 ± 0.26	0.862 ± 0.012	232.1 ± 2.6

[a] No previously published orbit.

(0.″045)—actually below the Rayleigh limit of resolution of the 2.5 m telescope.

01072+3839 = A 1516 AB (Fig. 1, *top left*): Although we find a period very similar to the 33.6 yr determined by Morel (1970), our semimajor axis is nearly 20% smaller. This finding is not altogether unexpected; visual observers working at very close separations tend to overestimate ρ. Interferometric data cover some 160° of the orbit and define the curve quite well.

02022+3643 = A 1813 AB (Fig. 1, *top right*): Speckle coverage for this system now exceeds one full revolution and so defines the shape of the orbit well. All data (spanning nearly seven revolutions) were used to determine the orbital period, and then interferometric data alone were used to derive the remaining elements. The published orbit is that of Heintz (1973); Heintz finds a period identical to ours (to within quoted accuracy), but his other elements are obviously quite different.

02145+6631 = McA 6 (Fig. 1, *middle left*): This is the first published orbit for this system, which has completed just over half a revolution since it was first resolved by McAlister in 1980 (McAlister et al. 1983). Also known as 55 Cas, the binary consists of an evolved primary (classified as G0 II–III) and a B9 main-sequence star. When combined with a published parallax of 3.79 mas (*Hipparcos*; ESA 1997), this orbit predicts a mass sum of 8.1 solar masses, in good agreement with the 7.2 $M_\odot$ estimated for the pair based on their spectral types.

02399+0009 = A 1928 (Fig. 1, *middle right*): Most of the newly determined elements for this system are similar to those published by Heintz (1988) except for the two angles ω and Ω, which are each rotated by some 30°. An older orbit by van den Bos (1951, not shown) actually gives smaller θ-residuals for the speckle data than does the Heintz orbit (ω and Ω here each differ by about 10°), although neither gives a particularly good fit.

03151+1618 = Hu 1055 AB (Fig. 1, *bottom left*): This system has completed nearly one full revolution since its discovery in 1904 (Hussey 1905). Fortunately, speckle data were obtained on either side of periastron passage in 1991,

TABLE 5

EPHEMERIDES

		2000.0		2001.0		2002.0	
WDS	DISCOVERER DESIGNATION	θ (deg)	ρ (arcsec)	θ (deg)	ρ (arcsec)	θ (deg)	ρ (arcsec)
01072+3839.....	A 1516 AB	113.6	0.102	98.9	0.109	85.9	0.115
02022+3643.....	A 1813 AB	16.3	0.135	37.7	0.074	151.4	0.049
02145+6631.....	McA 6	268.2	0.080	276.8	0.081	285.2	0.082
02399+0009.....	A 1928	233.4	0.206	239.3	0.207	245.3	0.201
03151+1618.....	Hu 1055 AB	132.0	0.247	130.6	0.263	129.3	0.279
04357+1010.....	CHR 18 Aa	157.9	0.202	170.4	0.163	192.8	0.114
07508+0317.....	A 2880	111.7	0.111	116.4	0.115	120.8	0.119
09036+4709.....	A 1585	11.2	0.043	335.9	0.063	319.9	0.091
14375+0217.....	CHR 42 Aa	328.6	0.200	331.2	0.211	333.5	0.219
15307+3810.....	Hu 1163	138.5	0.153	142.6	0.158	146.4	0.164
17375+2419.....	CHR 63	25.3	0.055	355.9	0.042	318.0	0.043
19091+3436.....	CHR 84 Aa	335.6	0.084	111.9	0.045	39.3	0.095
19407−0037.....	CHR 88 Aa	150.1	0.087	134.8	0.087	119.6	0.087
20312+1116.....	Da 1 BC	110.6	0.032	141.8	0.052	154.4	0.075

when the stars reached a closest projected separation of less than 7 mas. This is the first set of orbital elements published for this pair.

03453+2428 = HR 1145: Pleiades cluster member.

03456+2420 = Cou 560: Pleiades cluster member.

04199+1631 = Stt 79: The 1989.2266 measure results from rereduction of data originally published by McAlister, Hartkopf, & Franz (1990).

04259+1852 = Bu 1185: The 1989.2266 measure results from rereduction of data originally published by McAlister et al. (1990).

04357+1010 = CHR 18 Aa (Fig. 1, *bottom right*): More complete coverage is needed to better define P and T, but a 16 yr period fits these data considerably better than an alternate 8 yr orbit. The near-zero eccentricity results in a value for ω that is poorly defined. Also known as 88 Tau, the A component of this multiple system includes a 3.6 day double-lined spectroscopic binary; the B component (SHJ 45) lies some 70″ from the primary.

04400+5328 = StF 566 AC: The 1989.2294 measure results from rereduction of data originally published by McAlister et al. (1990).

04404+1631 = CHR 154: Hyades cluster member.

05003+3924 = CHR 159 Aa: This observation finally confirms the discovery of this close component of ADS 3589, made in 1988 by McAlister et al. (1993).

06580+0218 = CHR 25: The 1989.9445 measure results from rereduction of data originally published by Hartkopf et al. (1993).

07508+0317 = A 2880 (Fig. 2, *top left*): This system, a pair of K1 giants, has been analyzed by Baize on numerous occasions; his latest orbit (Baize 1992) is shown in the figure. The eight new observations since 1991 presented here show that the components continued to open up more than Baize expected, although we may now be seeing the system beginning to turn significantly. Another decade of observations will nearly complete one revolution since discovery and should refine the elements significantly.

08095+3213 = CHR 190 Aa: This system is rapidly closing and is now near the resolution limit of a 2.5 m telescope.

08399+1933 = CHR 156 Da: Praesepe cluster member.

08403+1921 = CHR 130: Praesepe cluster member.

08554+7048 = StF 1280 AB: This measure results from rereduction of data originally published by McAlister et al. (1987a).

09036+4709 = A 1585 (Fig. 2, *top right*): Docobo & Costa (1986) published both short- and long-period orbits (36.2 and 73.6 yr, respectively) for this pair, unable to determine which was correct. Subsequent speckle observations near periastron have shown the shorter period solution to be the correct one. Although all visual and interferometric data were used in the solution presented here, only the interferometric data are included in the figure, for clarity. Docobo & Costa's 36 yr solution is also shown.

14375+0217 = CHR 42 Aa (Fig. 2, *middle left*): This pair has a fairly high eccentricity and reached a minimum separation of only 16 mas in 1994.7 (unresolvable by speckle on any telescope of under 8 m aperture). Predicted separations at the three unresolved epochs listed in Table 2 are 30, 48, and 59 mas, respectively.

15307+3810 = Hu 1163 (Fig. 2, *middle right*): While both Couteau (1990) and Zulević (1996) have published recent elements for this binary, the newest interferometric data indicate that the system has not "turned" in its counterclockwise motion as rapidly as they had predicted. This new orbit is also preliminary; several decades' more data are needed to refine these elements into something approaching definitive.

17375+2419 = CHR 63 (Fig. 2, *bottom left*): The new orbit for this pair of A dwarfs is shown together with published orbits by McAlister et al. (1993) and Olević & Jovanović (1998; larger orbit). While the McAlister et al. orbit appears superficially to fit the data as well as the new elements, $O-C$ residuals to that 11 yr period orbit are actually considerably larger.

17461+0532 = CHR 157: Member of cluster IC 4665.

17520+1520 = Stt 338 AB: This measure results from rereduction of data originally published by McAlister et al. (1987a).

19091+3436 = CHR 84 Aa (Fig. 2, *bottom right*): This system is unresolvable at a 2.5 m telescope through some 200° of its orbit (spanning ~7 months of its 3.5 yr period), and is even unresolvable at a 4 m telescope during the 100° (2 months) around periastron. However, with 11 years' worth of data obtained since its 1985 discovery (McAlister et al. 1987b), some elements, such as the period, are quite well defined. The B component of this multiple system (StF 2474) lies at a distance of about 16″.

19190+3727 = Miu 1: These two measures confirm the discovery observation of this system, made in 1992 by Miura et al. (1993).

19307+2758 = McA 55 Aa: This close component to ADS 12540, consisting of a K3 II primary and a B0.5 V secondary, was first resolved in 1976 by McAlister & Hendry (1982), using a photographic speckle camera. Since that time it has completed only about 50° of orbital motion and less than one-quarter of its predicted century-long period. The pair is closing slowly at present, but a recent orbit (Hartkopf 1999) predicts that this motion will soon increase significantly, covering an additional 80° by 2010 and another 140° by 2020.

19336+3846 = CHR 87: With only 12 years' worth of data, spanning just over 70° of the orbit, the elements calculated from these data by Hartkopf (1999) are of course very preliminary. Still, the data are fitted quite well, so that orbit should predict the astrometry of the system fairly well for several years.

19407−0037 = CHR 88 Aa (Fig. 3, *left*): Data cover just over half the period and about 210° of coverage for this close system. Eccentricity is near zero, and the three orientation angles for the orbit are very poorly defined. Considerably more data from a telescope of at least 2 m aperture are needed to refine these elements significantly.

19556+5226 = YR 2 Aa: These observations "preconfirm" the discovery observation of this close pair, made in 1997.52 by Horch et al. (1999).

20312+1116 = Da 1 BC (Fig. 3, *right*): Although first resolved by Dawes (1867) in 1841, this binary still has over a century to go before completing one full revolution since that discovery. Highly eccentric, the pair is currently marginally unresolved at even a 4 m telescope, and it will not be resolvable through a 2.5 m telescope until early 2002.

21387+2530 = CHR 104: This binary was retracted by McAlister et al. (1993) after numerous failed attempts to confirm its discovery (six unresolved observations between 1985 and 1991). It now appears that we were too rash in making this retraction, as a weak peak in good agreement

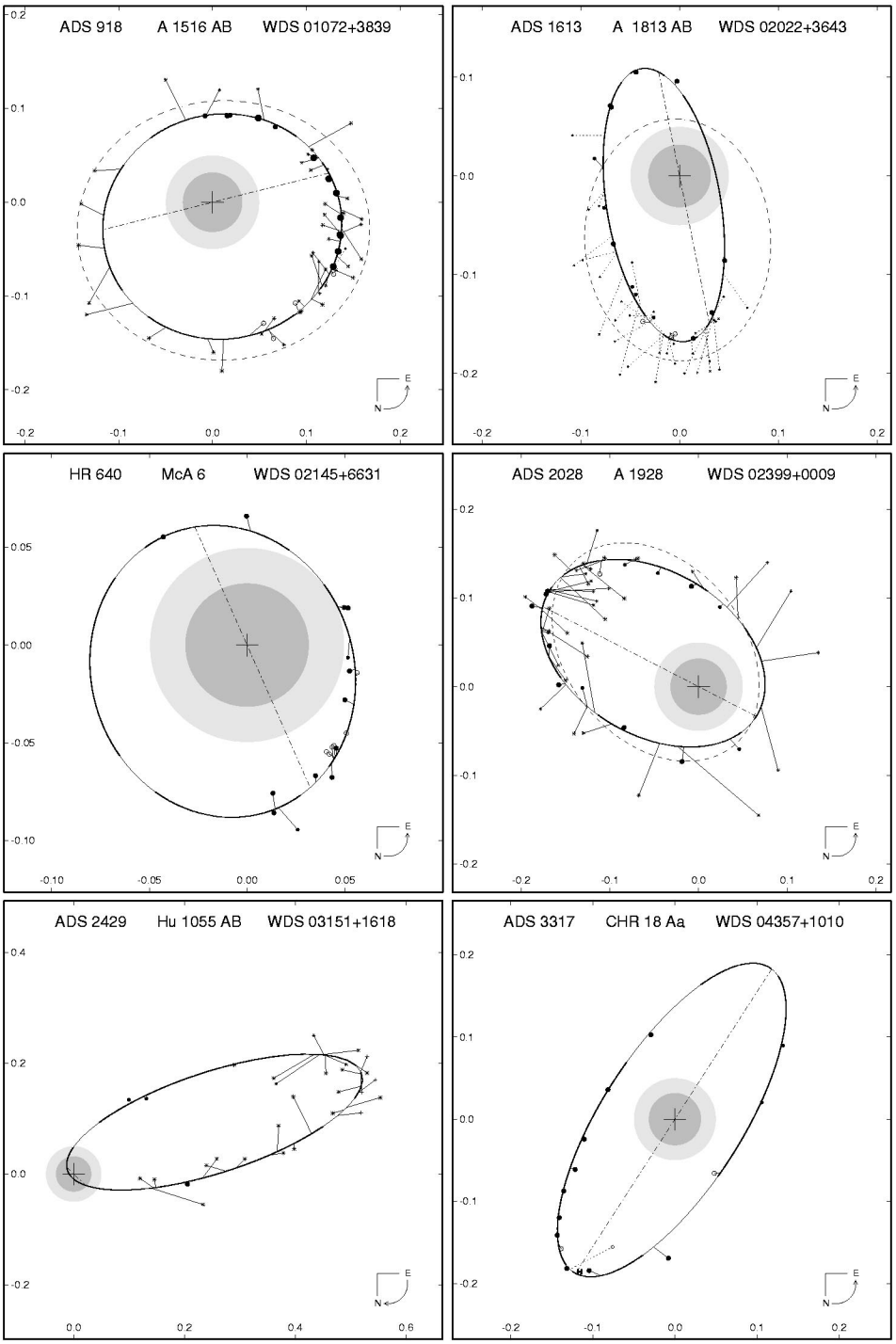

FIG. 1.—New orbital elements for A 1516 AB, A 1813 AB, McA 6, A 1928, Hu 1055 AB, and CHR 18 Aa (*top left to bottom right*). In this and subsequent figures, visual data are indicated by plus signs or asterisks (for observations obtained at "small" or "large" telescopes, respectively); CHARA speckle data, other interferometric data, and *Hipparcos* measures are indicated by filled circles, open circles, and the letter "H," respectively. The newly determined orbit is represented by a solid curve, while previously published orbits (identified in the notes) are shown as dotted curves. $O-C$ lines connect measures to their predicted locations on the new orbit; a dotted $O-C$ line indicates an observation given zero weight in the orbit calculation. The dot-dashed line indicates the line of nodes, and the light and dark gray regions about the origin indicate the Rayleigh limits of both a 2.5 and a 4 m telescope. Finally, clockwise or counterclockwise orbital motion is indicated by an arrow in the lower right corner of each panel.

with the 1985.5178 separation and angle has been extracted from Kitt Peak data taken later that year. Perhaps subsequent failures were the result of a variable component in the pair decreasing in brightness, yielding an excessive magnitude difference.

22383+4511 = CHR 114: This system has covered $\sim 90°$ of motion since its discovery in 1985 (McAlister et al. 1987b). Hartkopf (1999) finds an orbital period of about 85 yr for this system; the elements are obviously very preliminary and have large errors, but they should define the

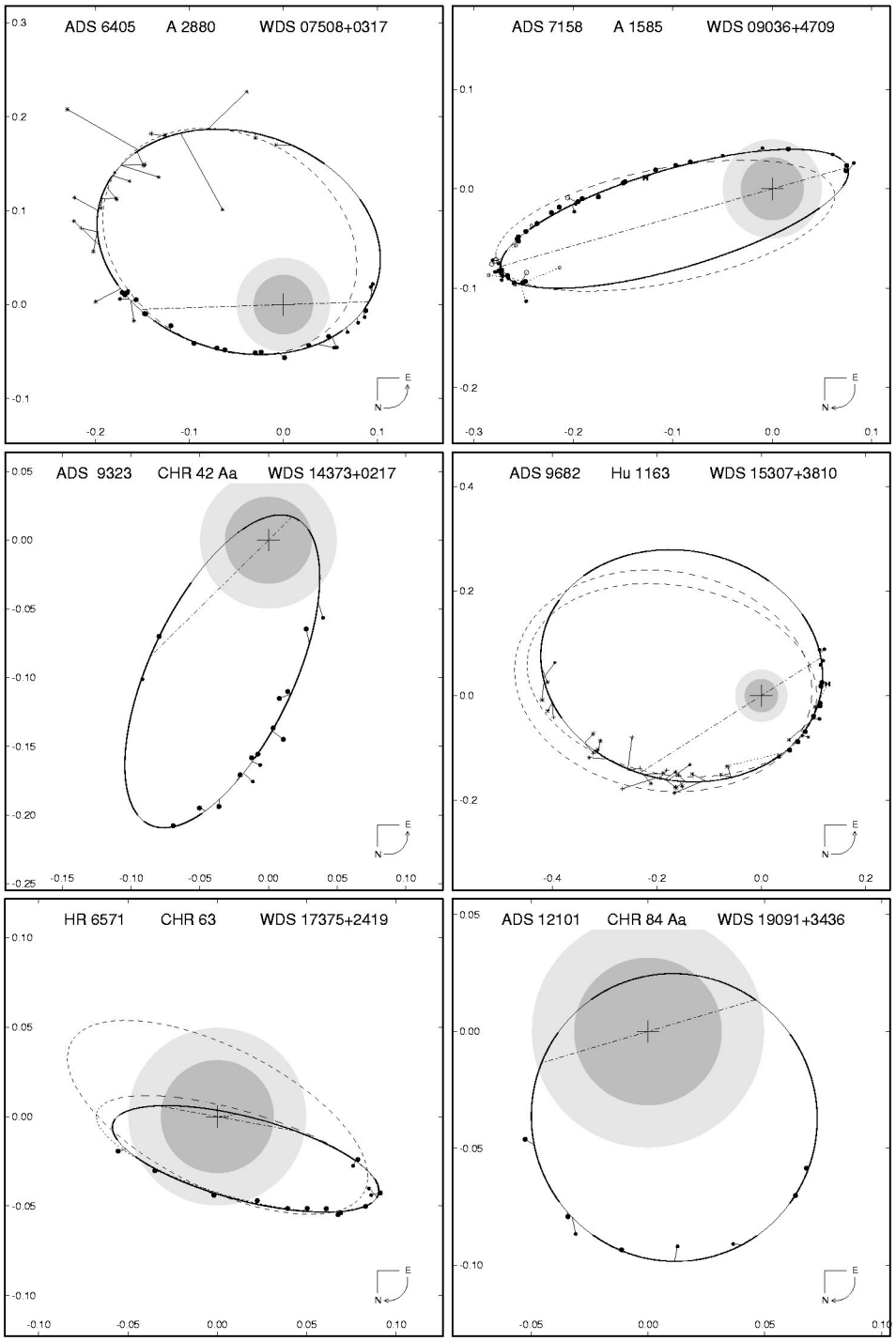

FIG. 2.—New orbital elements for A 2880, A 1585, CHR 42 Aa, Hu 1163, CHR 63, and CHR 84 Aa (*top left to bottom right*). Symbols are as in Fig. 1.

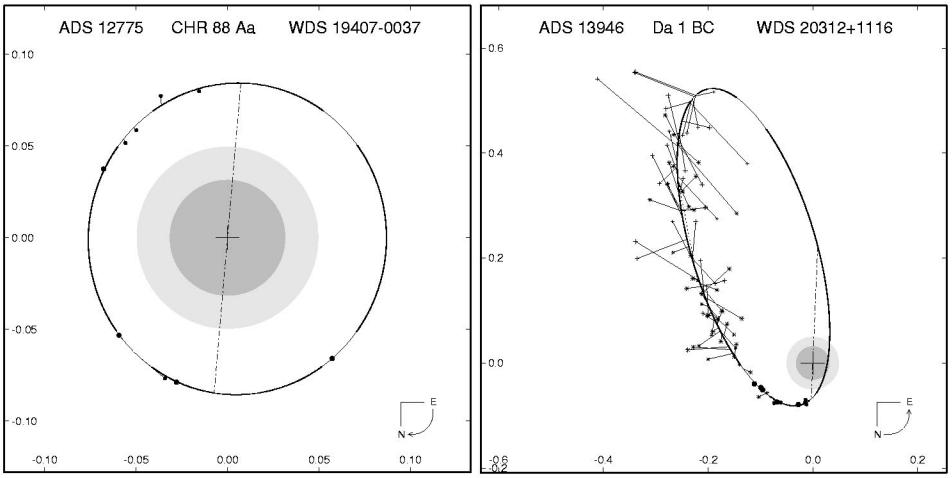

FIG. 3.—New orbital elements for CHR 88 Aa and Da 1 BC

binary's motion for the next several years. The Yale Bright Star Catalogue (Hoffleit & Jaschek 1982) lists spectral types of G2 III + A4 V for this system.

22402+3732 = Ho 188: This pair was observed twice in succession in 1995.6095. The first of these observations was erroneously attributed to 22341+3823 = Cou 1488 by Hartkopf et al. (1997), while the second was published under its correct ID in the same paper. The two observations are here averaged together.

23382+5514 = A 1493: This 1995.7705 observation was erroneously attributed to 22527+4347 = Cou 2244 by Hartkopf et al. (1997).

REFERENCES

Al-Shukri, A. M., McAlister, H. A., Hartkopf, W. I., Hutter, D. J., & Franz, O. G. 1996, AJ, 111, 393
Bagnuolo, W. G., Jr., Mason, B. D., Barry, D. J., Hartkopf, W. I., & McAlister, H. A. 1992, AJ, 103, 1399
Baize, P. 1992, A&AS, 92, 31
Couteau, P. 1990, Circ. d'Inf., No. 112
Dawes, W. R. 1867, MmRAS, 35, 137
Docobo, J. A., & Costa, J. M. 1986, Circ. d'Inf., No. 101
ESA. 1997, The Hipparcos and Tycho Catalogues (ESA SP-1200) (Noordwijk: ESA)
Fu, H.-H., Hartkopf, W. I., Mason, B. D., McAlister, H. A., Dombrowski, E. G., Westin, T., & Franz, O. G. 1997, AJ, 114, 1623
Hartkopf, W. I. 1999, d'Inf. Circ., No. 139
Hartkopf, W. I., Mason, B. D., Barry, D. J., McAlister, H. A., Bagnuolo, W. G., & Prieto, C. M. 1993, AJ, 106, 352
Hartkopf, W. I., McAlister, H. A., Mason, B. D., Barry, D. J., Turner, N. H., & Fu, H.-H. 1994, AJ, 108, 2299
Hartkopf, W. I., McAlister, H. A., Mason, B. D., ten Brummelaar, T., Roberts, L. C., Jr., Turner, N. H., & Wilson, J. W. 1997, AJ, 114, 1639
Heintz, W. D. 1973, PASP, 85, 408
———. 1988, A&AS, 72, 543
Hoffleit, D., & Jaschek, C. 1982, The Bright Star Catalogue (4th rev. ed.; New Haven: Yale Univ. Obs.)
Horch, E., Ninkov, Z., van Altena, W. F., Meyer, R. D., Girard, T. M., & Timothy, J. G. 1999, AJ, 117, 548
Hussey, W. J. 1905, Lick Obs. Bull., 3, 116
Mason, B. D. 1996, AJ, 112, 2260
Mason, B. D., Gies, D. R., Hartkopf, W. I., Bagnuolo, W. G., Jr., ten Brummelaar, T., & McAlister, H. A. 1998, AJ, 115, 821
Mason, B. D., McAlister, H. A., Hartkopf, W. I., & Bagnuolo, W. G., Jr. 1993, AJ, 105, 220
Mason, B. D., ten Brummelaar, T., Gies, D. R., Hartkopf, W. I., & Thaller, M. L. 1997, AJ, 114, 2112
McAlister, H. A., Hartkopf, W. I., & Franz, O. G. 1990, AJ, 99, 965
McAlister, H. A., Hartkopf, W. I., Hutter, D. J., & Franz, O. G. 1987a, AJ, 93, 688
McAlister, H. A., Hartkopf, W. I., Hutter, D. J., Shara, M. M., & Franz, O. G. 1987b, AJ, 93, 183
McAlister, H. A., & Hendry, E. M. 1982, ApJS, 48, 273
McAlister, H. A., Hendry, E. M., Hartkopf, W. I., Campbell, B. G., & Fekel, F. C. 1983, ApJS, 51, 309
McAlister, H. A., Mason, B. D., Hartkopf, W. I., & Shara, M. M. 1993, AJ, 106, 1639
Miura, N., Ni-ino, M., Baba, N., Iribe, T., & Isobe, S. 1993, Publ. Natl. Astron. Obs. Japan, 3, 153
Morel, P. J. 1970, A&AS, 1, 441
Olević, D., & Jovanović, P. 1998, d'Inf. Circ., No. 136
ten Brummelaar, T., Mason, B. D., McAlister, H. A., Roberts, L. C., Jr., Turner, N. H., Hartkopf, W. I., & Bagnuolo, W. G., Jr. 2000, AJ, 119, 2403
van den Bos, W. H. 1951, Union Obs. Circ., 6, 11
Zulević, D. J. 1996, Bull. Astron. Belgrade, No. 153, 79