

POSITIONS
OF
COMPARISON STARS FOR 1890.0.

Authority.	R. A. 1890.0	Decl. 1890.0
	H. M. S.	° M. "
Cape '50.....	○ 22 28.68	—33 36 53.2
Melbourne.....	28.39	50.7
Cordoba.....	28.38	51.3
Stone	28.31	51.9
Adopted.....	○ 22 28.41	—33 36 51.8
Schjellerup.....	○ 29 03.06	—8 54 15.4
Cincinnati.....	03.48	14.8
Adopted	○ 29 03.48	—8 54 14.8
Weisse	○ 34 32.15	—14 29 17.8
Lamont	32.08	19.0
Carleton.....	31.96	19.4
Cinc.....	32.08	19.7
Adopted.....	○ 34 32.08	—14 29 19.7
Oeltzen Arg.....	○ 41 55.94	—25 58 58.0
Cordoba	55.82	56.1
Adopted.....	○ 41 55.86	—25 58 56.7
O. Arg.....	○ 42 10.38	—25 59 48.5
Cordoba	10.50	45.7
Adopted.....	○ 42 10.46	—25 59 46.6
Cordoba Zone.....	○ 46 16.98	—31 35 01.2
Cordoba	16.82	03.7
Adopted (a).....	○ 46 16.87	—31 35 02.9
Cordoba Zone.....	○ 46 35.37	—31 33 25.8
Cordoba	35.35	28.0
Adopted (b).....	○ 46 35.36	—31 33 27.3
O. Arg	○ 46 55.83	—26 59 46.6
Cordoba	55.97	45.9
Adopted.....	○ 46 55.92	—26 59 46.1

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° M. S.
Eq. comp. with (a).....	○ 47 50.06	—31 39 23.1
Eq. comp. with (b).....	50.17	23.7
Adopted.....	○ 47 50.11	—31 39 23.4
O. Arg.....	○ 48 17.30	—27 03 06.2
Lalande.....	I 25 39.81	—7 35 51.9
Weisse.....	40.43	60.8
Cinc.....	39.78	59.6
Adopted.....	I 25 39.78	—7 35 59.6
Lalande.....	I 26 29.84	—7 17 05.6
Weisse.....	29.34	06.0
Cordoba.....	29.66	06.7
Cinc.....	29.78	06.8
Adopted.....	I 26 29.72	—7 17 06.8
Lalande	I 28 09.76	—7 35 04.4
Weisse	09.93	10.1
Bonn VI.....	10.56	12.6
Bruxelles.....	10.49	14.5
Cordoba.....	10.64	14.4
Königsberg.....	10.47	12.2
Carleton.....	10.73	15.0
Cinc.....	10.67	15.5
Adopted.....	I 28 10.67	—7 35 15.5
Proper motion, +0.010		s. Proper motion, —0.11
Weisse.....	I 29 15.47	—7 56 23.2
Bonn VI.....	15.42	19.1
Carleton.....	15.67	20.0
Cinc.....	15.53	19.8
Adopted.....	I 29 15.53	—7 56 19.8
O. Arg.....	I 31 05.74	—29 57 16.3
Cordoba Zone.....	05.85	17.1
Cinc.....	05.87	17.6
Adopted.....	I 31 05.87	—29 57 17.6
O. Arg.....	I 32 00.53	—29 57 02.8
Cordoba Zone.....	01.41	06.1
Cordoba	01.40	07.4
Cinc.....	01.77	08.7
Adopted.....	I 32 01.77	—29 57 08.7
Proper motion, +0.031		s. Proper motion, —0.15

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° M. S.
Weisse	I 44 43.13	—14 15 02.0
Bonn VI.....	42.82	01.0
Santini.....	42.82	01.5
Carleton.....	42.87	02.4
Cinc.....	42.97	02.2
Adopted.....	I 44 42.97	—14 15 02.2
Lalande	I 52 36.60	—6 34 26.5
Weisse	36.81	25.8
Cinc.....	37.70	21.1
Adopted.....	I 52 37.70	—6 34 21.1
	s. Proper motion, +0.013	" Proper motion, +0.07
Lalande	I 54 26.65	—7 32 59.2
Weisse	26.80	33 02.3
Paris.....	26.48	01.7
Cinc.....	26.53	02.0
Adopted.....	I 54 26.53	—7 33 02.0
Cinc. Zone.....	2 20 40.32	—21 48 27.0
Cinc.....	40.31	26.0
Adopted.....	2 20 40.31	—21 48 26.0
Cinc. Zone.....	2 20 40.57	—21 48 34.1
Cinc.....	40.58	40.4
Adopted.....	2 20 40.58	—21 48 40.4
Lalande	2 26 32.78	—1 40 50.8
Weisse	32.48	49.3
Paris.....	32.51	51.2
Schjellerup.....	32.76	54.9
Göttingen.....	32.59	51.4
Carleton.....	32.48	52.1
Adopted.....	2 26 32.57	—1 40 52.4
Becker	2 26 33.58	—1 31 15.3
Cordoba	33.53	14.8
Stone.....	33.45	15.1
10 Year.....	33.53	15.1
Adopted.....	2 26 33.52	—1 31 15.1
Bonn VI.....	2 30 19.86	—7 09 36.9
Cinc.....	19.96	38.4
Adopted.....	2 30 19.96	—7 09 38.4

POSITIONS OF COMPARISON STARS.

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° M. S.
Weisse	2 33 55.45	-8 43 26.7
Bonn VI.....	55.52	27.2
Carleton.....	55.64	27.4
Cinc.....	55.75	27.4
Adopted.....	2 33 55.75	-8 43 27.4
Lalande.....	2 34 13.39	-0 19 01.0
Weisse	13.30	10.2
Paris	13.27	15.8
Santini.....	13.34	20.6
Göttingen.....	13.28	18.6
Paris	13.12	18.6
Glasgow.....	13.10	22.0
Cinc.....	13.40	22.7
Adopted.....	2 34 13.29 s. 0.000	-0 19 22.9 " -0.20
Lalande	2 36 45.19	-8 50 44.4
Weisse	45.40	50.8
Cinc.....	45.61	48.8
Adopted.....	2 36 45.61	-8 50 48.8
O. Arg.....	2 36 54.49	-30 46 45.3
Cordoba Zone.....	55.67	53.5
Cordoba.....	55.58	54.1
Cinc.....	55.73	57.8
Adopted.....	2 36 55.73 s. O. Arg. +1?	-30 46 57.8 " -0.31
O. Arg.....	2 37 09.18	-30 52 30.1
Cordoba	09.51	29.2
Stone.....	09.46	29.7
Adopted.....	2 37 09.48	-30 52 29.5
Bonn VI.....	2 37 11.06	-7 55 08.0
Cinc.....	11.03	07.5
Adopted.....	2 37 11.03	-7 55 07.5
Königsberg	2 37 39.44	-0 22 52.2
Schjellerup.....	39.19	51.0
Göttingen.....	39.17	53.2
Adopted.....	2 37 39.27	-0 22 52.1
O. Arg.....	2 39 02.83	-29 16 25.2
Cordoba Zone.....	02.80	25.8
Cordoba	02.73	25.5
Adopted.....	2 39 02.76	-29 16 25.6

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
Weisse	2 43 35.43	-8 08 29.3
Bonn VI.....	35.59	31.9
Cinc.....	35.67	32.5
Adopted.....	2 43 35.67	-8 08 32.5
O. Arg.....	2 54 33.45	-26 35 34.6
Cordoba.....	33.73	36.5
Adopted.....	2 54 33.64	-26 35 35.9
Eq. comp. with last*.....	2 59 31.52	-26 26 45.3
Eq. comp. with next*.....	31.41	53.6
Adopted.....	2 59 31.46	-26 26 49.5
Yarnall.....	2 59 56.29	-26 12 24.8
Cordoba.....	56.40	26.0
Adopted.....	2 59 56.35	-26 12 25.4
Lalande	3 16 51.90	-15 51 13.2
O. Arg.....	51.59	14.5
Paris.....	51.85	13.5
Carleton.....	51.98	12.1
Cinc.....	51.92	13.4
Adopted.....	3 16 51.92	-15 51 13.4
Cordoba Zone.....	3 19 54.15	-31 31 13.0
Cordoba.....	54.07	10.9
Adopted.....	3 19 54.10	-31 31 11.6
Lalande	3 24 24.76	-21 45 02.2
O. Arg.....	24.75	00.1
Bonn VI	24.74	00.5
Cinc. Zone.....	24.84	03.4
Cinc.....	24.84	01.6
Adopted.....	3 24 24.84	-21 45 01.6
Lalande	3 24 46.51	-21 47 58.8
O. Arg.....	46.12	58.2
Cinc. Zone.....	46.46	56.7
Cinc.....	46.47	59.1
Adopted.....	3 24 46.47	-21 47 59.1
Cordoba Zone.....	3 30 14.25	-35 11 54.2
Cordoba.....	14.29	54.8
Stone.....	14.17	54.0
Adopted.....	3 30 14.22	-35 11 54.2

* Ring micrometer used.

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
O. Arg.....	3 30 34.30	-25 15 40.7
Cinc.....	34.81	45.4
Adopted.....	3 30 34.81	-25 15 45.4
Cordoba Zone.....	3 30 51.68	-26 47 47.0
Cordoba.....	51.83	46.5
Carleton.....	51.93	48.1
Adopted.....	3 30 51.84	-26 47 47.4
O. Arg.....	3 31 14.78	-24 52 53.0
Cordoba.....	15.01	51.1
Carleton.....	15.17	52.4
Adopted.....	3 31 15.03	-24 52 52.2
O. Arg.....	3 32 14.12	-25 01 24.7
Cordoba.....	14.66	22.5
Adopted.....	3 32 14.66	-25 01 22.5
Cordoba Zone.....	3 33 41.80	-23 26 46.7
Carleton.....	42.01	47.4
Cinc.....	41.69	48.5
Adopted.....	3 33 41.69	-23 26 48.5
Lalande.....	3 37 47.33	-19 03 39.1
O. Arg.....	47.94	42.6
Bonn VI.....	47.96	43.2
Tacchini.....	47.84	42.9
Cinc. Zone.....	47.76	43.5
Carleton.....	47.92	45.7
Cinc.....	47.92	46.0
Adopted.....	3 37 47.92	-19 03 46.0
Lalande.....	3 45 11.71	-16 58 06.7
Bonn VI.....	12.00	17.3
Cinc.....	11.49	16.0
Adopted.....	3 45 11.49	-16 58 16.0
Lalande.....	3 59 13.70	-13 05 35.9
Weisse.....	13.96	34.2
Schjellerup.....	13.87	36.6
Cordoba.....	13.96	37.4
Adopted.....	3 59 13.92	-13 05 37.0
Cordoba Zone.....	4 08 04.68	-31 51 35.0
Cordoba.....	04.72	34.5
Adopted.....	4 08 04.70	-31 51 34.7

POSITIONS OF COMPARISON STARS.

II

Authority.	R. A. 1890.0			Decl. 1890.0		
	H.	M.	S.	°	'	"
Lalande.....	4	25	35.78	—5	11	55.0
Weisse.....			36.31			55.9
Paris.....			35.97			59.1
Schjellerup.....			35.77			57.9
Cinc.....			36.00			59.2
Adopted.....	4	25	36.00	—5	11	59.2
Lalande.....	4	26	55.19	—5	16	12.5
Weisse.....			55.77			20.4
Paris.....			55.76			23.8
Carleton.....			55.85			23.2
Cinc.....			55.77			24.0
Adopted.....	4	26	55.77	—5	16	24.0
Lalande.....	4	51	18.69	—4	57	12.3
Paris.....			18.80			18.0
Carleton.....			18.72			18.1
Cinc.....			18.84			17.7
Adopted.....	4	51	18.84	—4	57	17.7
Bonn VI.....	5	16	51.88	—24	39	04.6
Cinc.....			52.30			05.3
Adopted.....	5	16	52.30	—24	39	05.3
O. Arg.....	5	19	45.58	—24	47	25.1
Cordoba Zone.....			45.39			26.5
Cordoba.....			45.37			25.3
Adopted.....	5	19	45.38	—24	47	25.9
O. Arg.....	6	08	02.18	—21	43	08.9
Cordoba.....			02.83			20.5
Carleton.....			02.78			23.7
Cinc.....			02.70			23.2
Adopted.....	6	08	02.70	—21	43	23.2
			s. Proper motion, 0.000			" Proper motion, —0.36
Bonn VI.....	6	.54	49.45	—7	38	17.8
Cinc.....			49.85			20.0
Adopted.....	6	54	49.85	—7	38	20.0
O. Arg.....	7	37	13.16	—17	57	01.0
Cinc.....			13.37			02.1
Adopted.....	7	37	13.37	—17	57	02.1

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
Lalande.....	7 45 25.54	-14 25 25.4
Weisse.....	25.53	29.2
Struve.....	25.73	24.5
Santini.....	25.81	23.2
Yarnall.....	25.64	24.9
Bruxelles.....	25.57	24.9
Cordoba.....	25.53	25.3
Cinc.....	25.55	26.0
Adopted.....	7 40 25.55	-14 25 25.5
O. Arg.....	8 28 04.59	-22 50 11.7
Cinc.....	04.79	14.2
Adopted.....	8 28 04.79	-22 50 14.2
Lalande.....	8 49 50.05	-2 43 34.2
Karlsruhe.....	50.04	39.0
Cinc.....	50.10	39.5
Adopted.....	8 49 50.07	-2 43 39.3
Bonn VI.....	8 52 17.61	-2 39 45.0
Cinc.....	17.64	48.6
Adopted.....	8 52 17.64	-2 39 48.6
O. Arg.....	9 07 06.14	-23 38 57.0
Cinc.....	06.23	58.6
Adopted.....	9 07 06.23	-23 38 58.6
O. Arg.....	9 07 40.43	-23 43 56.2
Carleton.....	41.02	58.8
Cinc.....	40.95	44 02.0
Adopted.....	9 07 40.95	-23 44 02.0
Bonn VI.....	9 12 09.99	-15 51 28.6
Carleton.....	10.14	30.0
Cinc.....	10.20	30.6
Adopted.....	9 12 10.20	-15 51 30.6
O. Arg.....	9 13 39.56	-22 39 58.5
Carleton.....	39.98	59.2
Cinc.....	39.89	40 01.2
Adopted.....	9 13 39.89	-22 40 01.2
Yarnall.....	9 14 28.73	-11 30 39.3
Bruxelles.....	28.49	40.3
Cordoba.....	28.50	39.0
Stone	28.46	39.9
Adopted.....	9 14 28.48	-11 30 39.8

POSITIONS OF COMPARISON STARS.

13

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
Bonn.....	9 20 47.77	-11 10 58.6
Cinc.....	48.20	II 01.3
Adopted.....	9 20 48.20	-II II 01.3
O. Arg.....	9 38	-19 51 43.2
Bonn VI.....	23.46	42.3
Cordoba.....	23.47	43.6
Cinc. Zone.....	23.41	44.6
Adopted.....	9 38 23.45	-19 51 43.5
Cordoba Zone.....	9 52 27.07	-26 20 02.3
Carleton.....	27.37	02.0
Cinc.....	27.28	03.2
Adopted.....	9 52 27.28	-26 20 03.2
Cinc. Zone.....	9 56 08.83	-19 08 44.0
Carleton.....	08.67	42.9
Cinc.....	08.69	43.3
Adopted.....	9 56 08.69	-19 08 43.3
Weisse.....	II 00 51.14	+0 29 01.5
Lamont.....	51.12	02.4
Glasgow.....	50.61	02.4
Adopted.....	II 00 50.61	+0 29 02.4
Cordoba.....	II 06 36.15	-26 12 32.2
Stone.....	36.19	33.0
Carleton.....	36.12	32.9
Adopted.....	II 06 36.15	-26 12 32.7
Cordoba Zone.....	II 08 21.19	-26 15 22.9
Cordoba.....	21.11	22.1
Carleton.....	21.06	23.2
Adopted.....	II 08 21.12	-26 15 22.7
Cordoba Zone.....	II 08 31.52	-26 07 55.7
Carleton.....	31.55	57.3
Adopted.....	II 08 31.54	-26 07 56.5
Cordoba Zone.....	II 10 36.45	-32 05 59.7
Cinc.....	36.48	59.8
Adopted.....	II 10 36.47	-32 05 59.8

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Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
O. Arg.....	II 40 54.39	-28 40 05.8
Cordoba Zone.....	55.06	02.7
Carleton.....	55.12	03.0
Adopted.....	II 40 55.09	-28 40 02.9
Weisse.....	II 41 23.90	-10 20 09.9
Lamont.....	23.49	12.2
Carleton.....	23.12	16.2
Cinc.....	23.22	16.0
Adopted.....	II 41 23.22	-10 20 16.0
Lamont.....	II 43 14.26	-10 25 06.7
Cinc.....	14.16	07.2
Adopted.....	II 43 14.16	-10 25 07.2
Cordoba Zone.....	II 46 48.56	-28 16 51.5
Carleton.....	48.76	51.4
Adopted.....	II 46 48.66	-28 16 51.4
Lalande.....	II 46 53.33	-13 31 04.0
Weisse.....	53.34	04.5
Santini.....	52.44	02.9
Cinc.....	52.46	01.4
Adopted.....	II 46 52.45	-13 31 02.2
Lalande.....	II 52 22.48	-13 29 57.2
Weisse.....	22.63	55.9
Santini.....	22.52	56.7
Cinc.....	22.70	58.5
Adopted.....	II 52 22.61	-13 29 57.6
O. Arg.....	II 59 56.36	-29 24 05.3
Cordoba Zone.....	56.56	08.7
Cinc.....	56.57	10.5
Adopted.....	II 59 56.57	-29 24 10.5
Lalande.....	II 21 31.53	-17 48 13.4
O. Arg.....	31.59	07.0
Cinc.....	31.57	12.4
Adopted.....	II 21 31.57	-17 48 12.4
Lalande.....	II 22 13.71	-18 00 03.2
O. Arg.....	13.78	17 59 58.7
Cordoba.....	13.69	18 00 02.8
Cinc.....	13.77	05.2
Adopted.....	II 22 13.77	-18 00 05.2

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15

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
Lalande	12 28 34.40	—3 06 36.6
Weisse	33.84	41.9
Lamont	33.72	39.4
Santini	33.72	47.2
Carleton	33.94	46.8
Cinc	33.92	46.2
Adopted	12 28 33.92	—3 06 46.2
O. Arg	12 33 57.15	—26 18 27.7
Cordoba Zone	57.28	26.4
Cordoba	57.32	25.3
Adopted	12 33 57.30	—26 18 25.8
O. Arg	12 34 53.74	—26 13 35.7
Yarnall	53.79	32.9
Cordoba Zone	53.95	34.3
Cordoba	53.82	35.0
Adopted	12 34 53.85	—26 13 34.1
Lamont	12 35 23.47	—10 58 47.0
Carleton	23.34	49.2
Cinc	23.17	50.0
Adopted	12 35 23.17	—10 58 50.0
Lamont	12 36 03.21	—10 59 14.7
Bonn VI	02.90	16.8
Carleton	03.06	17.1
Adopted	12 36 02.98	—10 59 17.0
Weisse	12 39 01.55	—2 06 22.1
Lamont	01.25	18.3
Bonn VI	01.30	19.2
Santini	01.08	19.1
Cinc	01.44	20.6
Adopted	12 39 01.44	—2 06 20.6
Weisse	12 39 47.75	—8 04 53.0
Bonn VI	47.09	53.7
Cinc	47.01	55.6
Adopted	12 39 47.01	—8 04 55.6
Weisse	12 41 51.53	—5 17 21.6
Lamont	52.06	22.9
Cinc	51.46	25.1
Adopted	12 41 51.46	—5 17 25.1

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Weisse	12 43 34.43	-5 13 20.1
Bonn VI.....	33.85	25.4
Carleton.....	34.16	24.2
Adopted.....	12 43 34.16	-5 13 24.2
Lamont.....	12 47 16.55	-0 40 31.4
Göttingen.....	16.20	39 11.9
Carleton.....	16.04	13.7
Adopted.....	12 47 16.12	-0 39 12.8
Lalande	13 01 14.75	-7 26 55.4
Weisse	15.06	58.9
Bonn VI.....	14.93	55.2
Carleton.....	15.14	55.8
Adopted.....	13 01 15.04	-7 26 55.5
O. Arg.....	13 12 14.11	-26 15 40.8
Cordoba Zone.....	14.03	38.5
Cordoba.....	13.90	42.8
Carleton.....	14.04	43.3
Adopted.....	13 12 13.99	-26 15 43.0
Lalande	13 13 11.58	-12 04 05.4
Weisse.....	11.09	06.2
Schjellerup.....	10.96	04.4
Cordoba	10.86	07.1
Carleton.....	10.76	08.7
Adopted.....	13 13 10.81	-12 04 07.9
O. Arg.....	13 14 27.10	-26 49 50.7
Cordoba Zone.....	27.37	53.0
Cordoba.....	27.18	53.0
Carleton.....	27.16	53.6
Adopted.....	13 14 27.21	-26 49 53.2
Cordoba.....	13 32 11.84	-29 16 44.1
Stone.....	11.83	43.9
Carleton.....	11.81	46.3
Adopted.....	13 32 11.83	-29 16 44.5
Cordoba Zone	13 37 11.60	-30 53 20.0
Cordoba	11.57	21.1
Cinc.....	11.60	23.5
Adopted.....	13 37 11.59	-30 53 21.5

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17

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
Bonn VI.....	14 23 55.59	—5 29 30.0
Schjellerup.....	55.67	29.6
Leipsic.....	55.51	30.8
Adopted.....	14 23 55.59	—5 29 30.1
Cordoba.....	14 33 16.28	—26 14 51.0
Stone.....	16.35	49.7
Adopted.....	14 33 16.32	—26 14 50.3
Weisse.....	14 33 51.80	+0 13 34.8
Lamont.....	51.16	41.5
Cinc.....	51.05	38.5
Adopted.....	14 33 51.05	+0 13 38.5
Cordoba.....	14 34 32.19	—25 57 21.0
Stone.....	32.13	20.9
Adopted.....	14 34 32.16	—25 57 20.9
Bonn VI.....	14 35 17. 43	+0 11 10.8
O. Arg.....	16 10 41.56	—22 38 52.0
Bonn VI.....	41.43	51.4
Tashkent.....	41.29	53.5
Adopted.....	16 10 41.29	—22 38 53.5
Lalande.....	16 27 23.94	—12 19 34.8
Weisse.....	23.12	36.9
Cinc.....	23.18	38.0
Adopted.....	16 27 23.18	—12 19 38.0
Lalande.....	16 48 38.66	—3 58 54.6
Weisse.....	39.08	59 06.1
Bruxelles.....	38.78	02.8
Glasgow.....	38.92	02.0
Cordoba	38.78	01.5
Adopted.....	16 48 38.83	—3 59 02.1
O. Arg.....	16 53 23.03	—30 04 13.9
Yarnall.....	22.99	18.2
Cordoba Zone.....	23.14	19.6
Adopted.....	16 53 23.05	—30 04 18.9
Cordoba Zone.....	16 55 06.45	—30 05 22.1
Cordoba Zone.....	16 55 18.66	—26 10 06.3
Cinc.....	18.55	09.5
Adopted.....	16 55 18.60	—26 10 07.9

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ' "
O. Arg.....	16 57 03.52	—22 31 01.8
Bonn VI.....	03.41	02.1
Tashkent.....	03.54	05.0
Adopted.....	16 57 03.54	—22 31 05.0
Lalande.....	16 58 48.75	—24 24 21.7
Bonn VI.....	48.40	24.7
Cordoba Zone.....	48.24	29.2
Cinc.....	48.38	27.6
Adopted.....	16 58 48.35	—24 24 27.3
O. Arg.....	17 04 02.78	—26 18 41.4
Cordoba.....	02.92	45.2
Adopted.....	17 04 02.92	—26 18 45.2
O. Arg.....	17 04 47.29	—26 33 50.6
Yarnall.....	46.86	52.3
Cordoba.....	46.90	52.8
Adopted.....	17 04 46.88	—26 33 52.5
Cordoba Zone.....	17 05 56.86	—29 29 06.4
Cordoba.....	56.64	07.5
Cinc.....	56.87	09.6
Adopted.....	17 05 56.81	—29 29 08.3
O. Arg.....	17 08 00.46	—18 25 54.5
Cinc.....	01.07	57.0
Adopted.....	17 08 01.07	—18 25 57.0
O. Arg.....	17 08 27.84	—27 50 26.6
Cordoba Zone.....	28.00	28.0
Cordoba.....	27.87	29.7
Adopted.....	17 08 27.93	—27 50 28.9
Lalande.....	17 16 11.45	—17 35 38.5
Bonn VI.....	11.38	39.5
Adopted.....	17 16 11.38	—17 35 39.5
Lalande.....	17 17 00.20	—17 51 49.7
O. Arg.....	00.45	50.2
Adopted.....	17 17 00.45	—17 51 50.2
O. Arg.....	17 17 13.73	—26 07 07.8
Cordoba Zone.....	13.89	04.8
Adopted.....	17 17 13.81	—26 07 06.3

POSITIONS OF COMPARISON STARS.

19

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° M. S.
O. Arg.....	17 32 02.54	-23 58 32.2
Cordoba Zone.....	02.71	36.0
Tashkent.....	02.84	34.8
Adopted.....	17 32 02.73	-23 58 34.5
Cordoba Zone.....	17 32 41.38	-23 55 23.1
O. Arg.....	17 56 33.63	-29 51 37.5
Cordoba Zone.....	33.91	39.7
Cordoba.....	33.81	41.6
Adopted.....	17 56 33.86	-29 51 40.6
O. Arg.....	17 57 56.71	-30 13 48.5
Cordoba Zone.....	57.01	49.2
Adopted.....	17 57 56.91	-30 13 49.0
Yarnall.....	18 23 59.83	-32 21 39.9
Cordoba Zone.....	60.13	39.6
Cordoba.....	59.95	41.8
Adopted.....	18 23 59.97	-32 21 40.4
Cape	18 26 44.82	-33 05 49.3
Yarnall.....	44.76	49.8
Cordoba.....	44.78	48.8
Stone.....	44.74	49.1
Adopted.....	18 26 44.77	-33 05 49.2
Cordoba Zone.....	18 34 59.93	-32 28 10.7
Cinc.....	59.99	12.2
Adopted.....	18 34 59.97	-32 28 11.7
Lalande	21 24 51.12	+11 47 54.3
Weisse	51.27	47.5
Lamont.....	50.84	42.1
Bruxelles	50.60	38.4
Glasgow.....	50.72	37.4
Cinc.....	50.55	34.8
Adopted.....	21 24 50.55 s.	+11 47 34.8 "
Proper motion, -0.006		Proper motion, -0.20
Lalande	21 25 50.14	+11 39 19.3
Weisse	50.51	18.5
Lamont.....	50.20	14.6
Bonn VI.....	50.46	17.4
Glasgow.....	50.45	15.5
Armagh 2.....	50.43	15.2
Cinc.....	50.36	16.2
Adopted.....	21 25 50.36	+11 39 16.2

Authority.	R. A. 1890.0 H. M. S.	Decl. 1890.0 ° ′ ″
Berlin Jahrbuch.....	22 28 40.61	—21 16 16.9
Bonn VI.....	23 11 03.55	—8 11 17.3
Cinc.....	03.81	17.8
Adopted.....	23 11 03.81	—8 11 17.8
Lalande	23 11 34.78	—5 02 02.1
Weisse.....	34.75	06.9
Schjellerup.....	34.77	05.2
Adopted.....	23 11 34.77	—5 02 05.2
Bonn VI.....	23 15 19.67	—9 05 50.9
Cinc.....	19.90	55.2
Adopted.....	23 15 19.90	—9 05 55.2
Lalande	23 31 57.20	—13 40 13.2
Weisse	57.60	18.7
Struve.....	57.31	12.5
Santini	57.28	14.0
Bruxelles	57.30	12.2
Cordoba.....	57.37	11.7
Adopted.....	23 31 57.31	—13 40 12.6
Bonn VI.....	23 33 34.78	—12 55 07.4
Cinc.....	35.20	09.3
Adopted.....	23 33 35.20	—12 55 09.3
Lalande	23 49 23.96	+5 19 12.6
Weisse	24.36	18 55.1
Bonn VI.....	23.84	56.4
Cinc.....	23.85	57.8
Adopted.....	23 49 23.85	+5 18 57.8

MICROMETRICAL MEASURES OF NEBULÆ.

G. C. 67.			Epoch 1885.9	°	'	"
Star 1890.0.....			H. M. S.			
Diff.....			○ 22 28.41	—33	36	51.8
			+2 27.50	—14	23.7	
Neb. 1890.0.....			○ 24 55.91	—33	51	15.5
G. C. 78.			Epoch 1885.8	°	'	"
Star 1890.0.....			○ 29 03.48	—8	54	14.8
Diff.....			+8.00	—5	53.2	
Neb. 1890.0.....			○ 29 11.48	—9	00	08.0
G. C. 107.			Epoch 1884.9	°	'	"
Star 1890.0.....			○ 34 32.08	—14	29	19.7
Diff.....			+31.37			+44.4
Neb. 1890.0.....			○ 35 03.45	—14	28	35.3
G. C. 138.			Epoch 1884.8	°	'	"
Star 1890.0.....			○ 41 55.86	—25	58	56.7
Diff.....			+13.0	—5	00	
Neb. 1890.0.....			○ 42 08.9	—25	53	57
G. C. 138.			Epoch 1884.8	°	'	"
Star 1890.0.....			○ 42 10.46	—25	59	46.6
Diff.....			○.0	—6	00	
Neb. 1890.0.....			○ 42 10.5	—25	53	47
G. C. 162.			Epoch 1884.9	°	'	"
Star 1890.0.....			○ 46 55.92	—26	59	46.1
Diff.....			+27.0	—10	57	
Neb. 1890.0.....			○ 47 22.9	—27	10	43
G. C. 162.			Epoch 1884.9	°	'	"
Star 1890.0.....			○ 48 17.30	—27	03	06.2
Diff.....			—54.0	—7	33	
Neb. 1890.0.....			○ 47 23.3	—27	10	39
G. C. 163.			Epoch 1885.0	°	'	"
Star 1890.0.....			○ 47 50.11	—31	39	23.4
Diff.....			—26.58	—9	00.0	
Neb. 1890.0.....			○ 47 23.53	—31	48	23.4
G. C. 342.			Epoch 1884.8	°	'	"
Star 1890.0.....			I 25 39.78	—7	35	59.6
Diff.....			+10.53	+9	42.7	
Neb. 1890.0.....			I 25 50.31	—7	26	16.9

MICROMETRICAL MEASURES OF NEBULÆ.

G. C. 342.			Epoch 1884.8	°	'	"
H.	M.	S.				
Star 1890.0.....	26	29.72	—7 17 06.8			
Diff.....		—39.11	—9 03.0			
Neb. 1890.0.....	25	50.61	—7 26 09.8			
G. C. 351.			Epoch 1884.8	°	'	"
Star 1890.0.....	25	39.78	—7 35 59.6			
Diff.....	+1	41.83	+1.2			
Neb. 1890.0.....	27	21.61	—7 35 58.4			
G. C. 351.			Epoch 1884.8	°	'	"
Star 1890.0.....	28	10.67	—7 35 15.5			
Diff.....		—48.98	—41.3			
Neb. 1890.0.....	27	21.69	—7 35 56.8			
G. C. 361.			Epoch 1884.9	°	'	"
Star 1890.0.....	31	05.87	—29 57 17.6			
Diff.....	—1	54.15	—1 42.6			
Neb. 1890.0.....	29	11.72	—29 59 00.2			
G. C. 361.			Epoch 1884.9	°	'	"
Star 1890.0.....	32	01.77	—29 57 08.7			
Diff.....	—2	49.88	—1 50.9			
Neb. 1890.0.....	29	11.89	—29 58 59.6			
G. C. 363.			Epoch 1884.9	°	'	"
Star 1890.0.....	29	15.53	—7 56 19.8			
Diff.....		+20.50	+2 07.5			
Neb. 1890.0.....	29	36.03	—7 54 12.3			
G. C. 431.			Epoch 1884.9	°	'	"
Star 1890.0.....	44	42.97	—14 15 02.2			
Diff.....	+2	57.48	—1 50.2			
Neb. 1890.0.....	47	40.45	—14 16 52.4			
G. C. 470.			Epoch 1884.9	°	'	"
Star 1890.0.....	52	37.70	—6 34 21.1			
Diff.....	+1	35.35	+4 23.9			
Neb. 1890.0.....	54	13.05	—6 29 57.2			
G. C. 474.			Epoch 1885.9	°	'	"
Star 1890.0.....	54	26.53	—7 33 02.0			
Diff.....	+1	11.40	+12 01.8			
Neb. 1890.0.....	55	37.93	—7 21 00.2			
G. C. 536.			Epoch 1886.0	°	'	"
Star* 1890.0.....	20	40.45	—21 48 33.2			
Diff.....	—2	41.45	+4 25.0			
Neb. 1890.0.....	17	59.00	—21 44 08.2			

* Mean of double.

G. C. 544.			Epoch 1884.9					
	H.	M.	S.	°	'	"		
Star 1890.0.....	2	26	32.57	—	I	40	52.4	
Diff.....	—4	31.15		+I			49.8	
Neb. 1890.0.....	2	22	01.42	—	I	39	02.6	
G. C. 544.			Epoch 1884.9					
Star 1890.0.....	2	26	33.52	—	I	31	15.1	
Diff.....	—4	32.25		—	7		47.7	
Neb. 1890.0.....	2	22	01.27	—	I	39	02.8	
G. C. 551.			Epoch 1884.9					
Last neb. 1890.0.....	2	22	01.35	—	I	39	02.7	
Diff.....	+2	55.85		+3			10.0	
Neb. 1890.0.....	2	24	57.20	—	I	35	52.7	
G. C. 574.			Epoch 1885.9					
Star 1890.0.....	2	30	19.96	—	7	09	38.4	
Diff.....	+2	45.88		—			+18.4	
Neb. 1890.0.....	2	33	05.84	—	7	09	20.0	
G. C. 589.			Epoch 1885.0					
Star 1890.0.....	2	33	55.75	—	8	43	27.4	
Diff.....	+I	44.62		—			—16.3	
Neb. 1890.0.....	2	35	40.37	—	8	43	43.7	
G. C. 589.			Epoch 1885.0					
Star 1890.0.....	2	36	45.61	—	8	50	48.8	
Diff.....	—I	05.10		+	7	04.5		
Neb. 1890.0.....	2	35	40.51	—	8	43	44.3	
G. C. 600.			Epoch 1884.8					
Star 1890.0.....	2	34	13.29	—	O	19	22.9	
Diff. (ring).....	+2	49.92		—	9		38.9	
Neb. 1890.0.....	2	37	03.21	—	O	29	01.8	
G. C. 600.			Epoch 1884.8					
Star 1890.0.....	2	37	39.27	—	O	22	52.1	
Diff. (ring).....	—	35.91		—	6	04.6		
Neb. 1890.0.....	2	37	03.36	—	O	28	56.7	
G. C. 603.			Epoch 1885.0					
Star 1890.0.....	2	39	02.76	—	29	16	25.6	
Diff.....	—	4.22		—	I		54.6	
Neb. 1890.0.....	2	38	58.54	—	29	28	20.2	
G. C. 604.			Epoch 1885.1					
Star 1890.0.....	2	37	11.03	—	7	55	07.5	
Diff.....	+3	23.43		—	7		23.7	
Neb. 1890.0.....	2	40	34.46	—	8	02	31.2	

MICROMETRICAL MEASURES OF NEBULÆ.

G. C. 604.	Epoch 1885.9	°	'	"
Star 1890.0.....	2 43 35.67	—8	08	32.5
Diff.....	—3 01.00	+5		48.9
Neb. 1890.0.....	2 40 34.67	—8	02	43.6
G. C. 610.	Epoch 1885.0	°	'	"
Star 1890.0.....	2 36 55.73	—30	46	57.8
Diff.....	+4 42.25	+2		41.5
Neb. 1890.0.....	2 41 37.98	—30	44	16.3
G. C. 610.	Epoch 1885.0	°	'	"
Star 1890.0.....	2 37 09.48	—30	52	29.5
Diff.....	+4 28.62	+8		15.6
Neb. 1890.0.....	2 41 38.10	—30	44	13.9
G. C. 645.	Epoch 1884.8	°	'	"
Star 1890.0.....	2 54 33.64	—26	35	35.9
Diff.....	+4 48.20	+5		39.3
Neb. 1890.0.....	2 59 21.84	—26	29	56.6
G. C. 645.	Epoch 1884.9	°	'	"
Star 1890.0.....	2 59 31.46	—26	26	49.5
Diff.....	—10.00	—3		06.4
Neb. 1890.0.....	2 59 21.46	—26	29	55.9
G. C. 692.	Epoch 1884.9	°	'	"
Star 1890.0.....	3 16 51.92	—15	51	13.4
Diff.....	+8.48	+3		32.2
Neb. 1890.0.....	3 17 00.40	—15	47	41.2
G. C. 709.	Epoch 1884.9	°	'	"
Star 1890.0.....	3 24 24.84	—21	45	01.6
Diff.....	—3 00.18	+1		44.5
Neb. 1890.0.....	3 21 24.66	—21	43	17.1
G. C. 709.	Epoch 1884.9	°	'	"
Star 1890.0.....	3 24 46.47	—21	47	59.1
Diff.....	—3 21.82	+4		41.3
Neb. 1890.0.....	3 21 24.65	—21	43	17.8
G. C. 714.	Epoch 1884.9	°	'	"
Star 1890.0.....	3 19 54.10	—31	31	11.6
Diff.....	+3 58.02	+4		17.5
Neb. 1890.0.....	3 23 52.12	—31	26	54.1
G. C. 734.	Epoch 1886.0	°	'	"
Star 1890.0.....	3 30 34.81	—25	15	45.4
Diff.....	—16.45	—2		14.7
Neb. 1890.0.....	3 30 18.36	—25	18	00.1

MICROMETRICAL MEASURES OF NEBULÆ.

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G. C. 739.			Epoch 1885.1					
	H.	M.	S.	°	'	"		
Star 1890.0.....	3	30	14.22	—35	11	54.2		
Diff.....	+1		58.00	—8		42.0		
Neb. 1890.0.....			3 32 12.22	—35	20	36.2		
G. C. 743.			Epoch 1885.1					
Star 1890.0.....	3	31	15.03	—24	52	52.2		
Diff.....	+1		28.93			+58.8		
Neb. 1890.0.....			3 32 43.96	—24	51	53.4		
G. C. 743.			Epoch 1885.1					
Star 1890.0.....	3	32	14.66	—25	01	22.5		
Diff.....			+29.38	+9		32.0		
Neb. 1890.0.....			3 32 44.04	—24	51	50.5		
G. C. 746.			Epoch 1885.1					
Star 1890.0.....	3	33	41.69	—23	26	48.5		
Diff.....			+0.46	+3		33.5		
Neb. 1890.0.....			3 33 42.15	—23	23	15.0		
New G. C. 1398.			Epoch 1884.9					
Star 1890.0.....	3	30	51.84	—26	47	47.4		
Diff.....	+3		22.12	+6		00.1		
Neb. 1890.0.....			3 34 13.96	—26	41	47.3		
G. C. 747.			Epoch 1884.9					
Star 1890.0.....	3	37	47.92	—19	03	46.0		
Diff.....	—3		14.08			+57.2		
Neb. 1890.0.....			3 34 33.84	—19	02	48.8		
G. C. 752.			Epoch 1884.9					
Star 1890.0.....	3	37	47.92	—19	03	46.0		
Diff.....	—2		32.88	+7		36.5		
Neb. 1890.0.....			3 35 15.04	—18	56	09.5		
G. C. 781.			Epoch 1885.1					
Star 1890.0.....	3	45	11.49	—16	58	16.0		
Diff.....	—1		46.59			+14	30.7	
Neb. 1890.0.....			3 43 24.90	—16	43	45.3		
G. C. 826.*			Epoch 1884.8					
Star 1890.0.....	3	59	13.92	—13	05	37.0		
Diff.....	+9		53.55	+4		41.4		
Neb. 1890.0.....			4 09 07.47	—13	00	55.6		
G. C. 828.			Epoch 1885.1					
Star 1890.0.....	4	08	04.70	—31	51	34.7		
Diff.....	+1		18.86	—3		55.7		
Neb. 1890.0.....			4 09 23.56	—31	55	30.4		

* See also meridian observations.

G. C. 866.			Epoch 1884.9	°	'	"
	H.	M.	S.			
Star 1890.o.....	4	25	36.00	—5	11	59.2
Diff.....			+38.30		—7	27.9
Neb. 1890.o.....	4	26	14.30	—5	19	27.1
G. C. 866.			Epoch 1884.9	°	'	"
Star 1890.o.....	4	26	55.77	—5	16	24.0
Diff.....			—41.33		—3	03.2
Neb. 1890.o.....	4	26	14.44	—5	19	27.2
G. C. 932.			Epoch 1885.1	°	'	"
Star 1890.o.....	4	51	18.84	—4	57	17.7
Diff.....			+11.20		—4	59.2
Neb. 1890.o.....	4	51	30.04	—5	02	16.9
G. C. 1112.*			Epoch 1885.0	°	'	"
Star 1890.o.....	5	16	52.30	—24	39	05.3
Diff.....			+2 47.13		+1	30.0
Neb. 1890.o.....	5	19	39.43	—24	37	35.3
G. C. 1112.			Epoch 1885.0	°	'	"
Star 1890.o.....	5	19	45.38	—24	47	25.9
Diff.....			—5.68		+9	46.9
Neb. 1890.o.....	5	19	39.70	—24	37	39.0
G. C. 1384.			Epoch 1885.2	°	'	"
Star 1890.o.....	6	08	02.70	—21	43	23.2
Diff.....			—32.40		—3	28.9
Neb. 1890.o.....	6	07	30.30	—21	46	52.1
G. C. 1477.			Epoch 1885.2	°	'	"
Star 1890.o.....	6	54	49.85	—7	38	20.0
Diff.....			—27.25			+52.0
Neb. 1890.o.....	6	54	22.60	—7	37	28.0
G. C. 1565.			Epoch 1885.3	°	'	"
Star 1890.o.....	7	40	25.55	—14	25	25.5
Diff.....			—3 38.85		—3	17.8
Neb. 1890.o.....	7	36	46.70	—14	28	43.3
G. C. 1567.			Epoch 1885.2	°	'	"
Star 1890.o.....	7	37	13.37	—17	57	02.1
Diff.....			—12.72			—5.6
Neb. 1890.o.....	7	37	00.65	—17	57	07.7
G. C. 1674.			Epoch 1885.3	°	'	"
Star 1890.o.....	8	28	04.79	—22	50	14.2
Diff.....			+28.45		+14	17.4
Neb. 1890.o	8	28	33.24	—22	35	56.8

* See also meridian observations.

G. C. 1721.			Epoch 1885.3					
	H.	M.	S.	°	'	"		
Star 1890.0.....	8	49	50.07	—2	43	39.3		
Diff.....			—56.00	+4		30.7		
Neb. 1890.0.....	8	48	54.07	—2	39	08.6		
G. C. 1721.			Epoch 1885.3					
Star 1890.0.....	8	52	17.64	—2	39	48.6		
Diff.....		—3	23.60			+45.4		
Neb. 1890.0.....	8	48	54.04	—2	39	03.2		
G. C. 1780.			Epoch 1886.2					
Star 1890.0.....	9	07	06.23	—23	38	58.6		
Diff.....			+19.40	—4		13.1		
Neb. 1890.0.....	9	07	25.63	—23	43	11.7		
G. C. 1780.			Epoch 1886.2					
Star 1890.0.....	9	07	40.95	—23	44	02.0		
Diff.....			—15.35			+47.2		
Neb. 1890.0.....	9	07	25.60	—23	43	14.8		
G. C. 1796.			Epoch 1885.3					
Star 1890.0.....	9	12	10.20	—15	51	30.6		
Diff.....		—1	09.35			+20.5		
Neb. 1890.0.....	9	11	00.85	—15	51	10.1		
G. C. 1835.			Epoch 1885.4					
Star 1890.0.....	9	14	28.48	—11	30	39.8		
Diff.....		+1	40.70			+4 08.3		
Neb. 1890.0.....	9	16	09.18	—11	26	31.5		
G. C. 1841.			Epoch 1885.3					
Star 1890.0.....	9	13	39.89	—22	40	01.2		
Diff.....		+4	51.62		—1	30.0		
Neb. 1890.0.....	9	18	31.51	—22	41	31.2		
G. C. 1854.			Epoch 1885.4					
Star 1890.0.....	9	20	48.20	—11	11	01.3		
Diff.....		+1	04.20			+54.5		
Neb. 1890.0.....	9	21	52.40	—11	10	06.8		
G. C. 1911.			Epoch 1885.3					
Star 1890.0.....	9	38	23.45	—19	51	43.5		
Diff.....			+10.65		—6	53.6		
Neb. 1890.0.....	9	38	34.10	—19	58	37.1		
G. C. 1981.			Epoch 1886.2					
Star 1890.0.....	9	52	27.28	—26	20	03.2		
Diff.....			+57.82		—4	09.4		
Neb. 1890.0.....	9	53	25.10	—26	24	12.6		

G. C. 1992.			Epoch 1886.2					
	H.	M.	S.	°	'	"		
Star 1890.0.....	9	56	08.69	—19	08	43.3		
Diff.....	—I		05.90	+2		03.5		
Neb. 1890.0.....	9	55	02.79	—19	06	39.8		
G. C. 2301.			Epoch 1885.4					
Star 1890.0.....	II	00	50.61	+0	29	02.4		
Diff.....			—40.32	+4		28.4		
Neb. 1890.0.....	II	00	10.29	+0	33	30.8		
G. C. 2341.			Epoch 1886.3					
Star 1890.0.....	II	06	36.15	—26	12	32.7		
Diff.....	+I		18.95	+3		11.1		
Neb. 1890.0.....	II	07	55.10	—26	09	21.6		
G. C. 2341.			Epoch 1886.3					
Star 1890.0.....	II	08	21.12	—26	15	22.7		
Diff.....			—26.40	+6		03.1		
Neb. 1890.0.....	II	07	54.72	—26	09	19.6		
G. C. 2341.			Epoch 1886.3					
Star 1890.0.....	II	08	31.54	—26	07	56.5		
Diff.....			—36.60	—I		27.6		
Neb. 1890.0.....	II	07	54.94	—26	09	24.1		
G. C. 2371.			Epoch 1886.3					
Star 1890.0.....	II	10	36.47	—32	05	59.8		
Diff.....	+2		19.30	—6		54.3		
Neb. 1890.0.....	II	12	55.77	—32	12	54.1		
G. C. 2557.			Epoch 1885.4					
Star 1890.0.....	II	41	23.22	—10	20	16.0		
Diff.....	+I		01.50			—56.1		
Neb. 1890.0.....	II	42	24.72	—10	21	12.1		
G. C. 2557.			Epoch 1885.4					
Star 1890.0.....	II	43	14.16	—10	25	07.2		
Diff.....			—49.80	+4		05.0		
Neb. 1890.0.....	II	42	24.36	—10	21	02.2		
G. C. 2570.			Epoch 1886.3					
Star 1890.0.....	II	40	55.09	—28	40	02.9		
Diff.....	+2		45.05			+8.4		
Neb. 1890.0.....	II	43	40.14	—28	39	54.5		
G. C. 2586.			Epoch 1886.3					
Star 1890.0.....	II	46	48.66	—28	16	51.4		
Diff.....	—I		20.60	+5		14.1		
Neb. 1890.0.....	II	45	28.06	—28	11	37.3		

G. C. 2616.			Epoch 1885.4	°	'	"
	H.	M.	S.			
Star 1890.0.....	II	46	52.45	—13	31	02.2
Diff.....		+2	10.90		+9	20.4
Neb. 1890.0.....	II	49	03.35	—13	21	41.8
G. C. 2616.			Epoch 1885.4	°	'	"
Star 1890.0.....	II	52	22.61	—13	29	57.6
Diff.....		—3	19.70		+8	12.9
Neb. 1890.0.....	II	49	02.91	—13	21	44.7
G. C. 2720.			Epoch 1886.3	°	'	"
Star 1890.0.....	II	59	56.57	—29	24	10.5
Diff.....		+1	05.60		+15	20.2
Neb. 1890.0.....	I2	01	02.17	—29	08	50.3
G. C. 2917.			Epoch 1886.3	°	'	"
Star 1890.0.....	I2	21	31.57	—17	48	12.4
Diff.....		—2	43.18		—22	15.4
Neb. 1890.0.....	I2	18	48.39	—18	10	27.8
G. C. 2917.			Epoch 1886.3	°	'	"
Star 1890.0.....	I2	22	13.77	—18	00	05.2
Diff.....		—3	25.37		—10	28.3
Neb. 1890.0.....	I2	18	48.40	—18	10	33.5
G. C. 3092.			Epoch 1885.4	°	'	"
Star 1890.0.....	I2	28	33.92	—3	06	46.2
Diff.....		+1	16.27		—4	32.6
Neb. 1890.0.....	I2	29	50.19	—3	11	18.8
G. C. 3128.			Epoch 1885.4	°	'	"
Star 1890.0.....	I2	33	57.30	—26	18	25.8
Diff.....			—19.80		+10	07.7
Neb. 1890.0.....	I2	33	37.50	—26	08	18.1
G. C. 3128.			Epoch 1885.4	°	'	"
Star 1890.0.....	I2	34	53.85	—26	13	34.1
Diff.....		—1	16.32		+5	20.3
Neb. 1890.0.....	I2	33	37.53	—26	08	13.8
G. C. 3132.			Epoch 1885.4	°	'	"
Star 1890.0.....	I2	35	23.17	—10	58	50.0
Diff.....		—1	06.70		—2	14.5
Neb. 1890.0.....	I2	34	16.47	—11	01	04.5
G. C. 3132.			Epoch 1885.4	°	'	"
Star 1890.0.....	I2	36	02.98	—10	59	17.0
Diff.....		—1	46.80		—1	48.3
Neb. 1890.0.....	I2	34	16.18	—11	01	05.3

G. C. 3214.			Epoch 1885.4			°
	H.	M.	S.	°	'	"
Star 1890.0.....	12	39	01.44	—2	06	20.6
Diff.....	+2		36.70	—1		16.2
Neb. 1890.0.....	12	41	38.14	—2	07	36.8
G. C. 3227.			Epoch 1885.4			°
Star 1890.0.....	12	41	51.46	—5	17	25.1
Diff.....	+1		03.83	+5		24.0
Neb. 1890.0.....	12	42	55.29	—5	12	01.1
G. C. 3227.			Epoch 1885.4			°
Star 1890.0.....	12	43	34.16	—5	13	24.2
Diff.....			—38.87	+1		26.7
Neb. 1890.0.....	12	42	55.29	—5	11	57.5
G. C. 3229.			Epoch 1885.4			°
Star 1890.0.....	12	39	47.01	—8	04	55.6
Diff.....	+3		32.40	+1		05.1
Neb. 1890.0.....	12	43	19.41	—8	03	50.5
G. C. 3273.			Epoch 1885.4			°
Star 1890.0.....	12	47	16.12	—0	39	12.8
Diff.....			—33.00	+3		10.1
Neb. 1890.0.....	12	46	43.12	—0	36	02.7
G. C. 3397.			Epoch 1885.4			°
Star 1890.0.....	13	01	15.04	—7	26	55.5
Diff.....	—1		10.02	+1		06.9
Neb. 1890.0.....	13	00	05.02	—7	25	48.6
G. C. 3477.			Epoch 1885.4			°
Star 1890.0.....	13	12	13.99	—26	15	43.0
Diff.....			—10.80			+19.8
Neb. 1890.0.....	13	12	03.19	—26	15	23.2
G. C. 3486.			Epoch 1885.4			°
Star 1890.0.....	13	13	10.81	—12	04	07.9
Diff.....			+32.10			—35.9
Neb. 1890.0.....	13	13	42.91	—12	04	43.8
G. C. 3503.			Epoch 1886.4			°
Star 1890.0.....	13	14	27.21	—26	49	53.2
Diff.....	+1		16.07	—1		23.2
Neb. 1890.0.....	13	15	43.28	—26	51	16.4
G. C. 3606.			Epoch 1885.4			°
Star 1890.0.....	13	32	11.83	—29	16	44.5
Diff.....	—1		23.10	—1		29.8
Neb. 1890.0.....	13	30	48.73	—29	18	14.3

MICROMETRICAL MEASURES OF NEBULÆ.

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G. C. 3620.	Epoch 1885.4	°	'	"
Star 1890.0.....	H. M. S.			
	13 37 11.59	—30	53	21.5
Diff.....	—3 31.63	—11	36.6	
Neb. 1890.0.....	13 33 39.96	—31	04	58.1
G. C. 3900.	Epoch 1885.5	°	'	"
Star 1890.0.....	I4 23 55.59	—5	29	30.1
Diff.....	—5.14			+20.8
Neb. 1890.0.....	I4 23 50.45	—5	29	09.3
G. C. 3954.	Epoch 1885.4	°	'	"
Star 1890.0.....	I4 33 16.32	—26	14	50.3
Diff.....	—4.22	+11	08.7	
Neb. 1890.0.....	I4 33 12.10	—26	03	41.6
G. C. 3954.	Epoch 1885.4	°	'	"
Star 1890.0.....	I4 34 32.16	—25	57	20.9
Diff.....	—1 20.10	—6	28.0	
Neb. 1890.0.....	I4 33 12.06	—26	03	48.9
G. C. 3964.	Epoch 1885.5	°	'	"
Star 1890.0.....	I4 33 51.05	+0	13	38.5
Diff.....	+42.37	—2	44.9	
Neb. 1890.0.....	I4 34 33.42	+0	10	53.6
G. C. 3964.	Epoch 1885.5	°	'	"
Star 1890.0.....	I4 35 17.43	+0	11	10.8
Diff.....	—44.30			—10.2
Neb. 1890.0.....	I4 34 33.13	+0	11	00.6
G. C. 4173.	Epoch 1885.5	°	'	"
Star 1890.0.....	I6 10 41.29	—22	38	53.5
Diff.....	—12.57			—3 12.1
Neb. 1890.0.....	I6 10 28.72	—22	42	05.6
G. C. 4211.	Epoch 1885.5	°	'	"
Star 1890.0.....	I6 27 23.18	—12	19	38.0
Diff.....	—1 02.00			—29 28.9
Neb. 1890.0.....	I6 26 21.18	—12	49	06.9
G. C. 4256.	Epoch 1885.5	°	'	"
Star 1890.0.....	I6 48 38.83	—3	59	02.1
Diff.....	+2 42.24			+3 25.0
Neb. 1890.0.....	I6 51 21.07	—3	55	37.1

G. C. 4261.	Epoch 1885.5		°	'	"
Star 1890.0.....	H. M. S.				
16 53 23.05			—30	04	18.9
+50.30				+7	28.0
Neb. 1890.0.....	16 54 13.35		—29	56	50.9
G. C. 4261.	Epoch 1885.5				
Star 1890.0.....			—30	05	22.1
Diff.....			—52.95		
				+8	27.9
Neb. 1890.0.....	16 54 13.50		—29	56	54.2
G. C. 4264.	Epoch 1885.5				
Star 1890.0.....			—26	10	07.9
Diff.....			+31.44		
				+3	42.2
Neb. 1890.0.....	16 55 50.04		—26	06	25.7
G. C. 4268.	Epoch 1885.5				
Star 1890.0.....			—24	24	27.3
Diff.....			—1	03.03	
				—12	06.8
Neb. 1890.0.....	16 57 45.32		—24	36	34.1
G. C. 4269.	Epoch 1885.5				
Star 1890.0.....			—22	31	05.0
Diff.....			+1	28.03	
				—2	13.5
Neb. 1890.0.....	16 58 31.57		—22	33	18.5
G. C. 4270.	Epoch 1885.5				
Star 1890.0.....			—26	18	45.2
Diff.....				—7	44.6
Neb. 1890.0.....	17 03 20.08		—26	26	29.8
G. C. 4270.	Epoch 1885.5				
Star 1890.0.....			—26	33	52.5
Diff.....			+1	26.52	
				—7	29.6
Neb. 1890.0.....	17 03 20.36		—26	26	22.9
G. C. 4275.	Epoch 1885.6				
Star 1890.0.....			—29	29	08.3
Diff.....			+1	36.62	
				—9	05.1
Neb. 1890.0.....	17 07 33.43		—29	20	03.2
G. C. 4279.	Epoch 1885.6				
Star 1890.0.....			—27	50	28.9
Diff.....			+1	13.47	
				—10	28.6
Neb. 1890.0.....	17 09 41.40		—28	00	57.5

MICROMETRICAL MEASURES OF NEBULÆ.

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G. C. 4287.

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.5			°	'	"
H.	M.	S.			
17	08	01.07	-18	25	57.0
	+4	44.95		+1	59.7
17	12	46.02	-18	23	57.3

G. C. 4295.

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.6			—	—	—
I	7	17	13.81	26	07

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.6			—	—	—
I	7	16	11.38	-17	35

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.6			—	—	—
I	7	17	00.45	-17	51

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.6			—	—	—
I	7	32	02.73	-23	58

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.6			—	—	—
I	7	32	41.38	-23	55

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.5			—	—	—
I	7	56	33.86	-29	51

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.5			—	—	—
I	7	56	—1.63	-10	25.9

Star 1890.o.....	
Diff.....	
Neb. 1890.o.....	

Epoch 1885.5			—	—	—
I	7	57	56.91	-30	13

MICROMETRICAL MEASURES OF NEBULÆ.

G. C. 4411.	Epoch 1885.6	°	'	"
Star 1890.0.....	H. M. S. 18 23 59.97	—32	21	40.4
Diff.....	+12.00	—3	37.0	
Neb. 1890.0.....	18 24 11.97	—32	25	17.4
G. C. 4421.	Epoch 1885.6	°	'	"
Star 1890.0.....	I8 26 44:77	—33	05	49.2
Diff.....	+1 47.85			+59.8
Neb. 1890.0.....	I8 28 32.62	—33	04	49.4
G. C. 4428.	Epoch 1885.6	°	'	"
Star 1890.0.....	I8 34 59.97	—32	28	11.7
Diff.....	+1 03.20	—4	16.5	
Neb. 1890.0.....	I8 36 03.17	—32	23	55.2
G. C. 4670.	Epoch 1884.8	°	'	"
Star 1890.0.....	2I 24 50.55	+II	47	34.8
Diff.....	—10.63	—6	23.9	
Neb. 1890.0.....	2I 24 39.92	+II	41	10.9
G. C. 4670.	Epoch 1884.8	°	'	"
Star 1890.0.....	2I 25 50.36	+II	39	16.2
Diff.....	—1 10.61	+2	01.2	
Neb. 1890.0.....	2I 24 39.75	+II	41	17.4
G. C. 4795.	Epoch 1884.8	°	'	"
Star 1890.0.....	22 28 40.61	—2I	16	16.9
Diff. (ring).....	—5 06.0	—8	00	
Neb. 1890.0.....	22 23 34.6	—2I	24	17
G. C. 4928.	Epoch 1885.8	°	'	"
Star 1890.0.....	23 II 34.77	—5	02	05.2
Diff.....	+46.02	—13	00.7	
Neb. 1890.0.....	23 I2 20.79	—5	15	05.9
G. C. 4932.	Epoch 1885.8	°	'	"
Star 1890.0.....	23 II 03.81	—8	11	17.8
Diff.....	+2 08.33			+21.4
Neb. 1890.0.....	23 I3 12.14	—8	10	56.4
G. C. 4933.	Epoch 1885.8	°	'	"
Star 1890.0.....	23 I5 19.90	—9	05	55.2
Diff.....	—1 58.33			+35.1
Neb. 1890.0.....	23 I3 21.57	—9	05	20.1

MICROMETRICAL MEASURES OF NEBULÆ.

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G. C. 4998.	Epoch 1885.8	
H. M. S.	° ' "	
Star 1890.0.....	23 31 57.31	-13 40 12.6
Diff.....	+1 17.75	+6 01.0
Neb. 1890.0.....	23 33 15.06	-13 34 11.6
G. C. 5000.	Epoch 1885.8	
Star 1890.0.....	23 33 35.20	-12 55 09.3
Diff.....	+37.25	+59.2
Neb. 1890.0.....	23 34 12.45	-12 54 10.1
G. C. 5029.	Epoch 1884.7	
Star 1890.0.....	23 49 23.85	+5 18 57.8
Diff.....	+17.49	-54.6
Neb. 1890.0.....	23 49 41.34	+5 18 03.2

MERIDIAN OBSERVATIONS.

Name.	Epoch.	R. A. 1890.0	Decl. 1890.0
		H. M. S.	° ' "
G. C. 826.....	1891.1	4 09 07.88	-13 01 02.9
	1891.1		11.2
G. C. 1112.....	1891.1	5 19 39.80	-24 37 39.5

CATALOGUE OF RESULTING POSITIONS.

No.....	Gen. Cat.	R. A. 1890.0			Prec.....	Decl. 1890.0			Prec.....	Remarks.
1	67	H.	M.	S	s.	°	'	"	"	Elongated, 2'.
2	78	0	24	55.91	+2.975	—33	51	15.5	+19.94	Faint, large.
3	107	0	29	11.48	3.046	—9	00	08.0	19.89	Small, round.
4	138	0	35	03.45	3.020	—14	28	35.3	19.82	V. bright, elongated.
5	162	0	42	.09.7	2.954	—25	53	52	19.71	Large, diffuse.
		0	47	23.1	2.932	—27	10	41	19.63	
6	163	0	47	23.53	+2.902	—31	48	23.4	+19.63	Somewhat elongated.
7	342	I	25	50.46	3.009	—7	26	13.4	18.66	Small, round.
8	351	I	27	21.65	3.006	—7	35	57.6	18.61	Bright, round.
9	361	I	29	11.80	2.782	—29	58	59.9	18.55	Faint.
10	363	I	29	36.03	3.002	—7	54	12.3	18.54	Small, faint.
11	431	I	47	40.45	+2.918	—14	16	52.4	+17.88	Bright.
12	470	I	54	13.05	3.000	—6	29	57.2	17.62	Faint, elongated.
13	474	I	55	37.93	2.989	—7	21	00.2	17.55	M. faint.
14	536	2	17	59.00	2.771	—21	44	08.2	16.53	Large, elongated.
15	544	2	22	01.35	3.050	—1	39	02.7	16.32	Small, bright.
16	551	2	24	57.20	+3.050	—1	35	52.7	+16.17	Faint.
17	574	2	33	05.84	2.968	—7	09	20.0	15.74	Bright, round.
18	589	2	35	40.44	2.944	—8	43	44.0	15.60	Bright, round.
19	600	2	37	03.28	3.065	—0	28	59.2	15.53	Bright.
20	603	2	38	58.54	2.590	—29	28	20.2	15.42	Small, faint.
21	604	2	40	34.56	+2.951	—8	02	37.4	+15.33	Large, elongated.
22	610	2	41	38.04	2.557	—30	44	15.1	15.27	Bright, round.
23	645	2	59	21.65	2.602	—26	29	56.3	14.22	Small, faint.
24	692	3	17	00.40	2.786	—15	47	41.2	13.09	Small, faint.
25	709	3	21	24.65	2.662	—21	43	17.4	12.80	Bright.

CATALOGUE OF RESULTING POSITIONS.

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No.....	Gen. Cat.	R. A. 1890.0			Prec.....	Decl. 1890.0			Prec.....	Remarks.
		H.	M.	S.	s.	°	'	"	"	
26	714	3	23	52.12	+2.437	—31	26	54.1	+12.63	M. bright.
27	734	3	30	18.36	2.571	—25	18	00.1	12.19	Large, faint.
28	739	3	32	12.22	2.315	—35	20	36.2	12.05	Faint.
29	743	3	32	44.00	2.576	—24	51	52.0	12.02	Faint.
30	746	3	33	42.15	2.608	—23	23	15.0	11.95	Small, bright.
31	3	34	13.96	+2.532	—26	41	47.3	+11.91	M. bright, round.
32	747	3	34	33.84	2.701	—19	02	48.8	11.89	Faint.
33	752	3	35	15.04	2.702	—18	56	09.5	11.84	Bright.
34	781	3	43	24.90	2.740	—16	43	45.3	11.26	Small, faint.
35	826	4	09	07.67	2.799	—13	01	03.2	9.33	V. bright.
36	828	4	09	23.56	+2.335	—31	55	30.4	+9.31	Small, faint.
37	866	4	26	14.37	2.958	—5	19	27.2	7.98	Small, faint.
38	932	4	51	30.04	2.960	—5	02	16.9	5.91	Small, faint.
39	1112	5	19	39.64	2.469	—24	37	37.9	+3.51	V. bright.
40	1384	6	07	30.30	2.539	—21	46	52.1	—0.66	Small, v. faint.
41	1477	6	54	22.60	+2.898	—7	37	28.0	—4.71	V. small, stellar.
42	1565	7	36	46.70	2.758	—14	28	43.3	8.22	Faint.
43	1567	7	37	00.65	2.678	—17	57	07.7	8.24	Small.
44	1674	8	28	33.24	2.629	—22	35	56.8	12.11	Faint, elongated.
45	1721	8	48	54.06	3.027	—2	39	05.9	13.48	Small, faint.
46	1780	9	07	25.61	+2.671	—23	43	13.2	—14.63	Bright.
47	1796	9	11	00.85	2.817	—15	51	10.1	14.84	Small, m. faint.
48	1835	9	16	09.18	2.895	—11	26	31.5	15.14	Bright.
49	1841	9	18	31.51	2.710	—22	41	31.2	15.28	Small, faint.
50	1854	9	21	52.40	2.904	—11	10	06.8	15.47	Large, round.
51	1911	9	38	34.10	+2.791	—19	58	37.1	—16.35	Small, faint.
52	1981	9	53	25.10	2.724	—26	24	12.6	17.07	M. faint.
53	1992	9	55	02.79	2.832	—19	06	39.8	17.15	M. faint.
54	2301	11	00	10.29	3.076	+0	33	30.8	19.37	Large, bright.
55	2341	11	07	54.92	2.925	—26	09	21.8	19.54	Bright.
56	2371	11	12	55.77	+2.901	—32	12	54.1	—19.63	Faint, elongated.
57	2557	11	42	24.54	3.054	—10	21	07.2	19.99	Faint.
58	2570	11	43	40.14	3.020	—28	39	54.5	20.00	M. bright.
59	2586	11	45	28.06	3.027	—28	11	37.3	20.01	Bright.
60	2616	11	49	03.13	3.057	—13	21	43.2	20.03	Bright, small.

CATALOGUE OF RESULTING POSITIONS.

No.....	Gen. Cat.	R. A. 1890.0			Prec.....	Decl. 1890.0			Prec.....	Remarks.
		H.	M.	S.		°	'	"		
61	2720	12	01	02.17	+3.076	—29	08	50.3	—20.05	Double, prec. observed.
62	2917	12	18	48.40	3.108	—18	10	30.6	19.99	Bright, large.
63	3092	12	29	50.19	3.082	—3	11	18.8	19.88	Bright.
64	3128	12	33	37.52	3.168	—26	08	16.0	19.84	Large.
65	3132	12	34	16.32	3.111	—11	01	04.9	19.83	V. bright, elongated.
66	3214	12	41	38.14	+3.081	—2	07	36.8	—19.72	M. faint, elongated.
67	3227	12	42	55.29	3.095	—5	11	59.3	19.70	Large, bright.
68	3229	12	43	19.41	3.108	—8	03	50.5	19.69	Bright, round.
69	3273	12	46	43.12	3.075	—0	36	02.7	19.64	Large, bright.
70	3397	13	00	05.02	3.118	—7	25	48.6	19.37	M. bright.
71	3477	13	12	03.19	+3.276	—26	15	23.2	—19.07	Faint.
72	3486	13	13	42.91	3.163	—12	04	43.8	19.02	Faint.
73	3503	13	15	43.28	3.292	—26	51	16.4	18.97	Small, faint.
74	3606	13	30	48.73	3.362	—29	18	14.3	18.50	V. bright.
75	3620	13	33	39.96	3.393	—31	04	58.1	18.42	M. faint, elongated.
76	3900	14	23	50.45	+3.148	—5	29	09.3	—16.25	Bright, round.
77	3954	14	33	12.08	3.478	—26	03	45.2	15.75	Bright.
78	3964	14	34	33.28	3.070	+0	10	57.1	15.66	Faint.
79	4173	16	10	28.72	3.569	—22	42	05.6	9.24	Cluster.
80	4211	16	26	21.18	3.352	—12	49	06.9	7.97	Cluster.
81	4256	16	51	21.07	+3.160	—3	55	37.1	—5.92	Large cluster.
82	4261	16	54	13.42	3.811	—29	56	52.5	5.68	Bright, large.
83	4264	16	55	50.04	3.702	—26	06	25.7	5.54	Bright, large.
84	4268	16	57	45.32	3.662	—24	36	34.1	5.38	Bright.
85	4269	16	58	31.57	3.608	—22	33	18.5	5.32	M. bright, large.
86	4270	17	03	20.22	+3.717	—26	26	26.4	—4.91	M. bright.
87	4275	17	07	33.43	3.804	—29	20	03.2	4.55	M. bright.
88	4279	17	09	41.40	3.767	—28	00	57.5	4.37	M. bright.
89	4287	17	12	46.02	3.508	—18	23	57.3	4.10	Bright.
90	4295	17	17	07.96	3.720	—26	15	00.9	3.73	Diffuse, faint.
91	4296	17	17	09.78	+3.492	—17	42	28.9	—3.73	V. bright.
92	4314	17	31	54.12	3.659	—23	50	40.6	2.45	Diffuse, faint.
93	4359	17	56	32.24	3.845	—30	02	04.0	0.30	Bright.
94	4364	17	57	47.09	3.846	—30	03	36.6	—0.20	Faint.
95	4411	18	24	11.97	3.917	—32	25	17.4	+2.11	V. bright.

CATALOGUE OF RESULTING POSITIONS.

No.....	Gen. Cat.	R. A. 1890.0			Prec.	Decl. 1890.0			Prec.	Remarks.
		H.	M.	S.	S.	°	'	"	"	
96	4421	18	28	32.62	+3.937	-33	04	49.4	+2.49	M. bright.
97	4428	18	36	03.17	3.910	-32	23	55.2	3.14	Bright.
98	4670	21	24	39.84	2.899	+11	41	14.2	15.62	M. bright.
99	4795	22	23	34.6	3.286	-21	24	17	18.30	V. large, faint.
100	4928	23	12	20.79	3.098	-5	15	05.9	19.62	M. faint.
101	4932	23	13	12.14	+3.111	-8	10	56.4	+19.64	Faint.
102	4933	23	13	21.57	3.116	-9	05	20.1	19.64	Faint, elongated.
103	4998	23	33	15.06	3.110	-13	34	11.6	19.92	Faint.
104	5000	23	34	12.45	3.107	-12	54	10.1	19.93	Bright, small.
105	5029	23	49	41.34	3.067	+5	18	03.2	20.03	Faint.