

A first extended catalogue of pointing/focus calibrators for the Sardinia Radio Telescope

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Abstract

The present work is part of a project aimed at compiling an extended catalogue of radio sources suitable for pointing/focus calibration purposes for the Sardinia Radio Telescope. The report presents a brief summary of the selection criteria and the strategy adopted to create the catalogue. A first version of the SRT calibrator catalogue for C- and K-band observations is then presented. As the telescope Total Power Backend (TPB) used in these observations does not handle polarimetry, only Total Intensity flux density measurements are provided. The characterization of suitable sources for polarimetric calibration will make use of the SARDARA and/or the Digital Filter Bank (DFB) backends available at the SRT, and is the subject of a future report. In addition, regular flux monitoring of a number of (primary and secondary) calibrators is also planned.

Source selection

The purpose of a pointing/focus calibrator catalogue is twofold: a) providing additional sources to be used for the SRT global pointing model; b) creating a constellation of validated targets to be used for the fine pointing adjustments (and also possible focus scans) during the observing sessions.

The Green Bank Telescope (GBT) Pointing Calibrator Catalogue, version PCALS4.7, kindly made available to us by Jim Condon, was used to select the targets for a wide observing campaign aimed at testing the stability of the SRT. The main parameters of the Pointing Calibrator Catalogue are described in Condon (2009). Similarly to what was done by Tarchi et al. (2013) on the PCALS4.5 version, from the general catalogue we extracted those sources referred to as *Gold Standard* (labeled 'P'). According to Condon (2009), *Gold Standard* sources are defined as those that fulfill the following three criteria:

- 7mm flux densities larger than 0.4 Jy;
- accurate core positions measured with VLBI precision;
- unresolved source at GBT resolution.

The catalogue of *Gold Standard* sources, version PCALS4.5, listed 567 targets. In PCALS4.7 three more sources (0017+8135, 0726+7911 and 0750+8241) detected in the K-band Northern Wide-area Pilot Survey (Righini et al. 2012; Ricci et al. 2013) were added. The observing list includes further ten sources that are routinely utilized at 100-m Effelsberg and/or 32-m Medicina radio telescopes for pointing calibration purposes but not present in PCALS4.7. Therefore, the final list of putative pointing calibrators for the SRT includes 580 targets.

Condon (2009) defines two parameters: θ_{\min} , the minimum telescope Half Power Beam Width (HPBW) for which the calibrator is suitable (related to the compactness of the source) and θ_{\max} , the maximum telescope HPBW for which a calibrator is unaffected by confusing sources and/or extended radio structures. θ_{\max} was used to select the 260 targets scheduled to be observed in C-band (i.e. sources with θ_{\max} larger than the C-band HPBW). All 580 targets were scheduled to be observed in K-band. Only six of the 580 targets present a θ_{\min} value larger than zero and, in any case, smaller than 30 arcsec (less than the K-band SRT HPBW at the observing frequency). The compactness of the targets is anyhow evaluated in our observations. The published catalogue in Table 3 includes 580 entries. Based on the θ_{\max} parameter 24 targets are suitable to refine the pointing at L-band. However, at such relatively low frequencies, fine pointing corrections are much less relevant, if not unnecessary at all.

Observations

The aim of our SRT observing campaign was to validate the largest possible number of putative calibrators from our target list. For validation we mean that a target must be point-like (in this respect selecting pointing calibrators used at GBT, that has a smaller beam-width than SRT, granted this criterion) and also bright enough at the observing frequencies to allow for a pointing correction within a standard cross-scan. The putative calibrators were observed with the Total Power Backend in Azimuth and Elevation double cross-scans. In doing so we measured:

- a) the source centroid offset with respect to the commanded position;
- b) the Full Width at Half Maximum of the source fitted profiles;
- c) the Total Intensity flux density.

The observations were performed at the central frequencies of 7.14 and 21.1 GHz for C- and K-bands, respectively, with effective bandwidths of 680 MHz and 2 GHz, respectively. For the C-band observations the higher part of the band was used in order to avoid the stronger RFI contamination (see Bolli et al. 2015). The SRT HPBWs at these observing frequencies are ~ 157 arcsec (for C-band) and ~ 52 arcsec (for K-band).

At C-band the cross-scans were performed at a speed of 2 deg/min over a span of 0.4 deg, a sampling rate of 25 Hz and with an integration time of 40 msec. For K-band observations, instead, the speed was 1 deg/min over a span of 0.25 deg, a sampling rate of 50 Hz and an integration time of 20 msec. These cross-scan parameters were chosen in the schedules to

Band	Type	Mean arcsec	Number of scans
C	Az offset	8.0 ± 0.4	353
	El offset	-6.5 ± 0.5	379
	Az FWHM	155.4 ± 0.7	353
	El FWHM	157.2 ± 0.6	379
K	Az offset	-5.2 ± 0.4	936
	El offset	-2.3 ± 0.3	940
	Az FWHM	52.3 ± 0.1	936
	El FWHM	51.4 ± 0.2	940

Table 1: Statistics of the positional offsets and FWHM in Azimuth (Az) and (El) cross-scans for pointing calibrators observed in C- and K-bands with SRT.

Source	Band	SRT flux density [Jy]	PB13 flux density [Jy]
3C286	K	3.20	2.62
	C	5.86	5.68
3C196	K	0.80	0.80
	C	2.82	2.78
3C295	K	0.70	1.03
	C	4.09	4.08

Table 2: Comparison of C- (7.14 GHz) and K-band (21.1 GHz) flux density measurements of flux calibrators taken with SRT and the Perley & Butler (2013) scale (PB13).

optimize the observing time per target and in order to fit the source profiles with a good S/N ratio in average observing conditions. C-band observations were carried out between April and August 2014 in seven blocks, while K-band observations were performed in five blocks, in April and August 2014, and then April, May and December 2015.

After an accurate removal of the bad sub-scans from the data, the source parameters (peak flux density, positional offsets in Az and El and Full Width Half Maximum) were determined through a Gaussian fit over a quadratic baseline for each target at each observing epoch. Flux density measurements were obtained after applying corrections for atmospheric opacity via skydips (for K-band observations only), primary beam attenuations and gain-elevation effects via a predetermined gain curve. For C-band a flat gain curve was used, while for K-band a cubic polynomial was used whose coefficients are reported in the SRT internal report Orlati et al. (2014). All targets for which we had good measurements were found to be point-like within the statistical errors and bright enough to be detected with a good S/N ratio in a typical pointing scan. Moreover, we provided flux densities for 166 out of 580 targets in K-band for which the candidate catalogue compiled by Tarchi et al. (2013) from the GBT *Gold Standard* sources did not have any measurements.

The average values of the Az/El offsets and FWHMs in C- and K-band observations are provided in Table 1. The offsets are found to be within the tolerance values (< 10% of the SRT HPBW) for the C-band observations. In K-band this is still true on average, but for sources observed at low elevations larger offsets could be found.

The flux densities measured in this campaign were cross-checked with the flux densities obtained by the polynomial fitting to the radio spectra in Perley & Butler (2013) (hereafter PB13) for the flux calibrators 3C286, 3C196 and 3C295 at the frequencies of 7.14 GHz and 21.1 GHz (see Table 2). An excellent agreement for all three calibrators was found for C-band flux densities with relative uncertainties below 3%. For K-band measurements, instead, only 3C196 shows an excellent match (within 1%). 3C286, the best primary calibrator in the Northern Hemisphere according to PB13 appears in our observations 22% brighter than expected. Upon investigation, we noticed that 3C286 was observed when the telescope was at very low elevation (El=12 deg). The gain curve correction is not accurate at such low elevations, thus providing a possible explanation of this discrepancy. The flux density of 3C295 was found to be $\sim 30\%$ lower than the value reported in PB13. That cause of this discrepancy is under investigation.

Out of the 260 targets in the C-band list, 200 (77%) were validated as pointing/focus calibrators, over the full 24 hours in Right Ascension and the full Declination range ($\delta > -40$ deg). For the remaining 60 targets either we did not acquire enough data to make a claim or we could not observe the targets for scheduling constraints. In K-band 456 out of 580 (79%) of the targets were validated as good pointing calibrators for the entire RA and Dec ranges. A searchable data-set will be made available on the SRT website¹ for the users who wish to browse a detailed version of the catalogue.

¹<http://www.srt.inaf.it>

Calibrator catalogue

The pointing/focus calibrator catalogue is presented in Table 3. The table columns read as follows:

Column 1. J2000 IAU name.

Column 2. and 3. J2000 Right Ascension and Declination.

Column 4. θ_{\max} parameter: maximum HPBW for which the calibrator is suitable for observation.

Column 5. Discrimination tag: L (good for L-band), C (good for C-band), K (good for K-band), +K (non-optimal for K-band because the HPBW of the telescope is close to the maximum limit), >K (good for frequencies higher than K-band).

Column 6. and 7. SRT K-band Flux Density in Jy with its statistical error-bar. Null values mean that the source was scheduled but not observed.

Column 8. K-band Flag (-1: no data; 0: good calibrator; 1: not enough data to judge)

Column 9. Flux density at 1.3 cm as shown in GBT *Gold standard* catalogue. Null values mean that no measurements were available.

Column 10. and 11. SRT C-band Flux Density in Jy with its statistical error-bar. Null values mean that the source was scheduled but not observed. No flux density entry for C-band means that the source is not suitable for C-band observation based on the θ_{\max} value.

Column 12. C-band Flag (-1: no data; 0: good calibrator; 1: not enough data to judge)

Column 13. Flux density at 6 cm as shown in GBT *Gold Standard* catalogue. Null values mean that no measurements were available.

Column 14. Additional notes: P stands for PTCS *Gold Standard* source; X for sources present in the GBT catalogue but not satisfying the *Gold Standard* conditions. These X sources have been included in our catalogue because they are routinely used as pointing calibrators at the Effelsberg and/or Medicina telescopes. Alternative names of commonly used calibrators are also reported. An asterisk (*) is used to indicate the three sources present in PCALS4.7 but not in PCALS4.5.

References

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Table 3: List of pointing/focus calibrators for the SRT. The explanation of the columns is given in the text.

(1) IAU name	(2) RA (J2000)	(3) Dec (J2000)	(4) θ_{\max} (arcsec)	(5) Tag	(6) SRT Kflux Jy	(7) +/- Jy	(8) Kflag	(9) KPCAL Jy	(10) SRT Cflux Jy	(11) +/- Jy	(12) Cflag	(13) CPCAL Jy	(14) Notes
0004-1148	00:04:04.9149	-11:48:58.385	45	+K	0.390	0.008	0	0.68					P
0005+3820	00:05:57.1754	+38:20:15.148	90	K	0.0	0.0	-1	0.0					P
0005+5428	00:05:04.3635	+54:28:24.926	45	+K	0.0	0.0	-1	0.0					P
0006-0623	00:06:13.8928	-06:23:35.335	180	CK	3.237	0.132	0	2.08	0.0	0.0	-1	1.30	P
0010+1058	00:10:31.0058	+10:58:29.504	45	+K	0.179	0.004	0	1.10					P
0010+1724	00:10:33.9906	+17:24:18.761	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	0.98	P
0011+0823	00:11:35.2696	+08:23:55.587	45	+K	0.0	0.0	-1	0.0					P
0012-3954	00:12:59.9080	-39:54:25.836	45	+K	0.0	0.0	-1	1.61					P
0013+4051	00:13:31.1302	+40:51:37.144	45	+K	0.0	0.0	-1	0.81					P
0014+6117	00:14:48.8154	+61:17:43.852	540	CK	0.0	0.0	-1	0.0	1.568	0.024	0	1.85	P
0017+5312	00:17:51.7598	+53:12:19.121	45	+K	0.0	0.0	-1	0.0					P
0017+8135	00:17:08.4749	+81:35:08.136	180	CK	0.0	0.0	-1	0.0	1.552	0.011	0	1.05	P*
0019+2021	00:19:37.8545	+20:21:45.644	90	K	0.850	0.006	0	1.0					P
0019+7327	00:19:45.7864	+73:27:30.017	45	+K	1.638	0.052	0	1.28					P
0025+3919	00:25:26.1577	+39:19:35.439	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	0.81	P
0029+0554	00:29:45.8964	+05:54:40.695	45	+K	0.411	0.078	0	1.10					P
0030+7037	00:30:14.4164	+70:37:40.042	45	+K	0.0	0.0	-1	0.0					P
0038-2459	00:38:14.7354	-24:59:02.235	45	+K	0.388	0.051	0	1.13					P
0040-0146	00:40:57.6115	-01:46:32.025	90	K	0.362	0.005	0	0.47					P
0042+2320	00:42:04.5451	+23:20:01.061	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	0.85	P
0042+5708	00:42:19.4517	+57:08:36.585	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	0.65	P
0046+2456	00:46:07.8292	+24:56:32.607	45	+K	0.0	0.0	-1	0.0					P
0048+3157	00:48:47.1414	+31:57:25.085	45	+K	0.0	0.0	-1	0.0					P
0049+0237	00:49:43.2359	+02:37:03.778	45	+K	0.0	0.0	-1	0.0					P
0050-0929	00:50:41.3173	-09:29:05.210	45	+K	0.529	0.013	0	0.51					P
0051-0650	00:51:08.2097	-06:50:02.228	90	K	0.696	0.065	0	1.28					P
0056+1625	00:56:55.2941	+16:25:13.338	45	+K	0.0	0.0	-1	0.0					P
0059+0006	00:59:05.5149	+00:06:51.621	30	>K	0.481	0.022	0	0.0					P
0102+5824	01:02:45.7623	+58:24:11.136	45	+K	2.729	0.083	0	0.0					P
0104-2416	01:04:58.2053	-24:16:28.445	45	+K	0.254	0.025	0	0.40					P
0106-2718	01:06:26.0820	-27:18:11.824	45	+K	0.564	0.045	0	0.47					P
0108+0135	01:08:38.7710	+01:35:00.317	540	CK	1.827	0.069	0	1.90	3.196	0.035	0	1.9	P
0109+6133	01:09:46.3390	+61:33:30.450	45	+K	0.342	0.004	0	0.0					P
0112+2244	01:12:05.8247	+22:44:38.786	45	+K	0.197	0.003	0	0.0					P
0112+3208	01:12:50.3276	+32:08:17.548	90	K	0.506	0.011	0	0.0					P
0113+0222	01:13:43.1449	+02:22:17.316	45	+K	0.374	0.015	0	0.0					P
0113+4948	01:13:27.0068	+49:48:24.043	45	+K	0.483	0.013	0	0.0					P
0115-0127	01:15:17.0999	-01:27:04.577	360	CK	0.273	0.002	0	0.74	0.0	0.0	-1	1.16	P
0116-1136	01:16:12.5219	-11:36:15.434	540	CK	0.0	0.0	-1	0.97	0.0	0.0	-1	1.40	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0118-2141	01:18:57.2621	-21:41:30.139	30	>K	0.885	0.040	0	0.88					P
0120-2701	01:20:31.6633	-27:01:24.652	45	+K	0.604	0.019	0	0.62					P
0121+0422	01:21:56.8616	+04:22:24.734	45	+K	0.572	0.017	0	0.0					P
0121+1149	01:21:41.5950	+11:49:50.413	15	>K	1.049	0.086	0	1.20					P
0122+2502	01:22:38.8159	+25:02:31.793	180	CK	0.361	0.002	0	0.0	0.0	0.0	-1	0.53	P
0125-0005	01:25:28.8437	-00:05:55.931	45	+K	0.752	0.013	0	1.16					P
0128+4901	01:28:08.0647	+49:01:05.977	45	+K	0.273	0.002	0	0.0					P
0132-1654	01:32:43.4874	-16:54:48.521	45	+K	1.137	0.145	0	1.43					P
0134-3843	01:34:32.0382	-38:43:33.514	180	CK	0.0	0.0	-1	0.69	0.0	0.0	-1	0.44	P
0136+4751	01:36:58.5948	+47:51:29.100	360	CK	0.0	0.0	-1	3.8	3.954	0.082	0	1.88	P
0137-2430	01:37:38.3463	-24:30:53.885	45	+K	1.146	0.117	0	1.21					P
0137+3309	01:37:41.2994	+33:09:35.132	720	LCK	0.909	0.014	0	1.13	0.0	0.0	-1	5.48	(3C48) P
0141-0928	01:41:25.8320	-09:28:43.673	15	>K	0.0	0.0	-1	0.76					P
0145-2733	01:45:03.3945	-27:33:34.328	45	+K	0.518	0.031	0	0.57					P
0149+0555	01:49:22.3708	+05:55:53.568	180	CK	0.599	0.055	0	1.00	0.0	0.0	-1	0.89	P
0152+2207	01:52:18.0590	+22:07:07.700	45	+K	0.861	0.167	0	1.20					P
0203+1134	02:03:46.6570	+11:34:45.409	180	CK	0.231	0.008	0	0.0	0.0	0.0	1	0.96	P
0204+1514	02:04:50.4139	+15:14:11.043	540	CK	0.683	0.098	0	1.30	1.745	0.007	0	1.25	P
0204-1701	02:04:57.6743	-17:01:19.840	45	+K	1.359	0.147	0	1.78					P
0205+3212	02:05:04.9253	+32:12:30.095	180	CK	1.146	0.012	0	1.6	1.711	0.101	0	1.47	P
0211+1051	02:11:13.1775	+10:51:34.790	45	+K	0.559	0.028	0	0.0					P
0217+0144	02:17:48.9547	+01:44:49.699	45	+K	0.437	0.019	0	1.30					P
0217+7349	02:17:30.8133	+73:49:32.621	360	CK	1.443	0.082	0	2.89	3.275	0.044	0	2.30	P
0219+0120	02:19:07.0244	+01:20:59.865	45	+K	0.0	0.0	-1	0.0					P
0221+3556	02:21:05.4733	+35:56:13.791	540	CK	0.416	0.005	0	1.2	0.0	0.0	-1	1.07	P
0222-3441	02:22:56.4016	-34:41:28.730	180	CK	0.503	0.020	0	1.02	0.0	0.0	-1	0.99	P
0222+4302	02:22:39.6115	+43:02:07.798	45	+K	0.491	0.002	0	0.0					P
0224+0659	02:24:28.4281	+06:59:23.341	30	>K	1.177	0.048	0	0.0					P
0226+3421	02:26:10.3331	+34:21:30.286	360	CK	0.534	0.011	0	0.0	0.0	0.0	-1	1.63	P
0228+6721	02:28:50.0514	+67:21:03.029	540	CK	1.086	0.040	0	0.0	0.0	0.0	-1	1.15	P
0231+1322	02:31:45.8940	+13:22:54.716	90	K	0.822	0.064	0	1.30					P
0232+2628	02:32:27.6250	+26:28:38.596	180	CK	0.247	0.020	0	0.0	0.0	0.0	-1	0.44	P
0237+2848	02:37:52.4056	+28:48:08.990	360	CK	1.691	0.394	0	3.80	3.150	0.024	0	2.30	P
0238+1636	02:38:38.9301	+16:36:59.274	540	CK	1.670	0.013	0	1.5	0.961	0.011	0	1.73	P
0239-0234	02:39:45.4722	-02:34:40.914	45	+K	0.554	0.032	0	0.89					P
0239+0416	02:39:51.2630	+04:16:21.411	180	CK	0.381	0.013	0	0.0	0.0	0.0	-1	0.70	P
0241-0815	02:41:04.7985	-08:15:20.751	180	CK	1.582	0.076	0	1.20	0.0	0.0	-1	1.15	P
0242+1101	02:42:29.1708	+11:01:00.728	360	CK	0.507	0.015	0	0.0	0.0	0.0	-1	1.05	P
0244+6228	02:44:57.6968	+62:28:06.514	45	+K	0.565	0.016	0	0.0					P
0253+3835	02:53:08.8881	+38:35:24.998	45	+K	0.246	0.024	0	0.0					P
0259-0019	02:59:28.5161	-00:19:59.974	45	+K	0.261	0.013	0	0.96					P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0303+4716	03:03:35.2422	+47:16:16.275	180	CK	1.503	0.048	0	0.0	2.940	0.109	0	2.47	P
0304+6821	03:04:22.0038	+68:21:37.474	90	K	0.0	0.0	-1	0.0					P
0309+1029	03:09:03.6235	+10:29:16.340	45	+K	1.393	0.095	0	1.1					P
0310+3814	03:10:49.8799	+38:14:53.837	45	+K	0.129	0.001	0	0.0					P
0312+0133	03:12:43.6028	+01:33:17.538	45	+K	0.379	0.036	0	0.90					P
E0318+162	03:18:57.8026	+16:28:32.698	720	LCK	0.0	0.0	-1	0.0	1.997	0.000	0	2.95	X
0319+4130	03:19:48.1601	+41:30:42.103	540	CK	32.080	0.152	0	11.3	32.685	0.026	0	23.3	(3C84) P
0325+2224	03:25:36.8143	+22:24:00.365	180	CK	0.584	0.013	0	0.80	0.600	0.023	0	1.18	P
0325+4655	03:25:20.3038	+46:55:06.635	45	+K	0.379	0.010	0	0.0					P
0329-2357	03:29:54.0755	-23:57:08.773	45	+K	0.830	0.062	0	1.46					P
0336-1302	03:36:35.0357	-13:02:04.660	45	+K	0.306	0.028	0	0.45					P
0336+3218	03:36:30.1075	+32:18:29.342	360	CK	0.0	0.0	-1	0.0	2.022	0.008	0	1.61	P
0339-0146	03:39:30.9377	-01:46:35.803	180	CK	2.336	0.099	0	2.21	2.383	0.018	0	2.82	P
0340-2119	03:40:35.6078	-21:19:31.172	360	CK	0.495	0.015	0	1.04	0.726	0.019	0	1.25	P
0348-1610	03:48:39.2707	-16:10:17.752	45	+K	0.252	0.036	0	0.94					P
0348-2749	03:48:38.1445	-27:49:13.565	45	+K	0.635	0.062	0	1.33					P
0349+4609	03:49:18.7415	+46:09:59.658	180	CK	0.637	0.018	0	0.0	0.650	0.004	0	1.00	P
0351-1153	03:51:10.9769	-11:53:22.664	180	CK	0.0	0.0	-1	0.60	0.0	0.0	-1	0.54	P
0357+2319	03:57:21.6098	+23:19:53.826	45	+K	0.0	0.0	-1	0.0					P
0358+5606	03:58:30.1793	+56:06:44.493	180	CK	0.448	0.002	0	0.0	0.835	0.019	0	0.63	P
0359+3220	03:59:44.9129	+32:20:47.155	45	+K	0.0	0.0	-1	0.0					P
0359+5057	03:59:29.7472	+50:57:50.161	45	+K	5.810	0.014	0	0.0					P
0359+6005	03:59:02.6399	+60:05:22.068	45	+K	0.0	0.0	-1	0.0					P
0401+0413	04:01:19.9128	+04:13:34.408	45	+K	0.411	0.004	0	0.0					P
0402-3147	04:02:21.2660	-31:47:25.945	90	K	0.709	0.032	0	0.47					P
0403+2600	04:03:05.5860	+26:00:01.502	180	CK	0.0	0.0	-1	0.0	1.867	0.022	0	0.63	P
0403-3605	04:03:53.7499	-36:05:01.913	360	CK	2.621	0.379	0	4.01	0.0	0.0	-1	1.27	P
0405-1308	04:05:34.0034	-13:08:13.691	90	K	1.428	0.143	0	1.58					P
0406-3826	04:06:59.0353	-38:26:28.042	90	K	1.018	0.166	0	1.17					P
0407+0742	04:07:29.0870	+07:42:07.500	45	+K	0.455	0.025	0	0.0					P
0409+1217	04:09:22.0087	+12:17:39.847	45	+K	0.0	0.0	-1	0.0					P
0410+7656	04:10:45.6057	+76:56:45.301	540	CK	1.252	0.025	0	1.34	2.504	0.017	0	2.79	P
0414+3418	04:14:37.2557	+34:18:51.207	90	K	0.610	0.026	0	0.0					P
0415+4452	04:15:56.5265	+44:52:49.683	45	+K	0.0	0.0	-1	0.0					P
0416-1851	04:16:36.5444	-18:51:08.340	540	CK	0.480	0.052	0	0.58	0.0	0.0	-1	0.56	P
0422+0219	04:22:52.2146	+02:19:26.931	45	+K	0.738	0.009	0	0.0					P
0423-0120	04:23:15.8007	-01:20:33.065	540	CK	2.719	0.298	0	6.00	4.182	0.011	0	3.70	P
0423+4150	04:23:56.0097	+41:50:02.712	45	+K	0.0	0.0	-1	0.0					P
0424+0036	04:24:46.8420	+00:36:06.329	45	+K	0.368	0.023	0	0.6					P
0424-3756	04:24:42.2437	-37:56:20.784	45	+K	1.242	0.106	0	1.69					P
0427+0457	04:27:47.5705	+04:57:08.325	180	CK	0.220	0.003	0	0.0	0.375	0.011	0	0.45	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0428-3756	04:28:40.4243	-37:56:19.580	45	+K	3.733	0.389	0	1.85					P
0432+4138	04:32:36.5026	+41:38:28.448	540	CK	0.0	0.0	-1	0.0	3.163	0.016	0	3.70	P
0433+0521	04:33:11.0955	+05:21:15.619	15	>K	1.927	0.183	0	2.4					P
0442-0017	04:42:38.6607	-00:17:43.419	540	CK	1.167	0.218	0	1.08	0.0	0.0	-1	1.17	P
0449+1121	04:49:07.6711	+11:21:28.596	45	+K	0.757	0.021	0	0.0					P
0449+6332	04:49:23.3105	+63:32:09.434	30	δ K	0.0	0.0	-1	0.0					P
0453-2807	04:53:14.6468	-28:07:37.327	90	K	1.897	0.097	0	1.79					P
0457+0645	04:57:07.7099	+06:45:07.260	45	+K	0.534	0.020	0	0.0					P
0457-2324	04:57:03.1792	-23:24:52.020	45	+K	2.760	0.193	0	3.84					P
0501-0159	05:01:12.8098	-01:59:14.256	45	+K	1.860	0.192	0	1.10					P
0502+0609	05:02:15.4459	+06:09:07.494	180	CK	0.398	0.013	0	0.0	0.659	0.008	0	0.86	P
0502+1338	05:02:33.2195	+13:38:10.958	180	CK	0.529	0.012	0	0.0	0.554	0.034	0	0.54	P
E0502+251	05:02:58.5826	+25:16:24.242	540	CK	0.0	0.0	-1	0.0	1.749	0.013	0	2.37	X
0502+4139	05:02:37.9877	+41:39:19.337	45	+K	0.0	0.0	-1	0.7					P
0505+0459	05:05:23.1847	+04:59:42.724	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	0.67	P
0509+0541	05:09:25.9644	+05:41:35.333	180	CK	0.368	0.004	0	0.0	0.495	0.025	0	1.03	P
0509+1011	05:09:27.4570	+10:11:44.600	45	+K	0.0	0.0	-1	0.0					P
0510+1800	05:10:02.3691	+18:00:41.581	90	K	1.084	0.058	0	0.0					P
0512+4041	05:12:52.5440	+40:41:43.603	180	CK	0.0	0.0	-1	0.0	0.0	0.0	-1	1.29	P
0513-2159	05:13:49.1143	-21:59:16.092	90	K	0.757	0.069	0	0.94					P
0519+0848	05:19:10.8113	+08:48:56.717	45	+K	0.436	0.038	0	0.0					(3C138) P
0521+1638	05:21:09.8860	+16:38:22.051	45	+K	0.0	0.0	-1	0.0					P
0522-3627	05:22:57.9846	-36:27:30.850	720	LCK	6.011	0.268	0	3.91	0.0	0.0	-1	9.07	P
0525-2338	05:25:06.5059	-23:38:10.806	45	+K	1.369	0.019	0	0.79					P
0530+1331	05:30:56.4167	+13:31:55.149	180	CK	0.876	0.000	0	0.0	1.586	0.005	0	4.30	P
0532+0732	05:32:38.9985	+07:32:43.345	360	CK	0.0	0.0	-1	0.0	1.611	0.007	0	2.30	P
0533+4822	05:33:15.8657	+48:22:52.807	45	+K	0.508	0.053	0	0.0					P
0539+1433	05:39:42.3659	+14:33:45.561	45	+K	0.0	0.0	-1	0.0					P
0539-2839	05:39:54.2814	-28:39:55.947	180	CK	1.373	0.122	0	0.68	1.602	0.017	0	1.28	P
0541-0541	05:41:38.0833	-05:41:49.428	90	K	0.0	0.0	-1	2.05					P
0542+4951	05:42:36.1379	+49:51:07.233	540	CK	2.072	0.021	0	1.7	5.717	0.039	0	7.94	(3C147) P
0552+0313	05:52:50.1014	+03:13:27.243	180	CK	0.453	0.004	0	0.0	0.0	0.0	-1	0.78	P
0552+3754	05:52:17.9368	+37:54:25.281	45	+K	0.0	0.0	-1	0.0					P
0555+3948	05:55:30.8056	+39:48:49.165	540	CK	0.0	0.0	-1	3.0	4.585	0.022	0	5.00	P
0559+2353	05:59:32.0331	+23:53:53.926	45	+K	0.320	0.112	0	0.0					P
0605+4030	06:05:50.8553	+40:30:08.103	180	CK	0.410	0.006	0	0.0	0.0	0.0	-1	0.74	P
0607-0834	06:07:59.6992	-08:34:49.978	180	CK	3.878	0.282	0	1.17	4.396	0.103	0	2.70	P
0607+6720	06:07:52.6716	+67:20:55.409	45	+K	0.543	0.010	0	1.2					P
0608-2220	06:08:59.6868	-22:20:20.955	45	+K	0.908	0.029	0	1.00					P
0609-1542	06:09:40.9495	-15:42:40.672	180	CK	3.541	0.477	0	3.98	4.396	0.027	0	3.76	P
0617+5701	06:17:16.9225	+57:01:16.423	30	>K	0.200	0.006	0	0.0					P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0620-2515	06:20:32.1169	-25:15:17.484	180	CK	0.711	0.020	0	0.84	0.977	0.004	0	1.16	P
0626+8202	06:26:03.0061	+82:02:25.567	45	+K	0.551	0.025	0	0.63					P
0629-1959	06:29:23.7618	-19:59:19.723	180	CK	1.103	0.142	0	1.26	1.095	0.011	0	0.98	P
0634-2335	06:34:59.0009	-23:35:11.956	45	+K	0.573	0.032	0	1.03					P
0638+5933	06:38:02.8719	+59:33:22.214	45	+K	0.566	0.019	0	0.0					P
0639+7324	06:39:21.9611	+73:24:58.040	180	CK	0.717	0.017	0	1.47	0.0	0.0	-1	0.77	P
0641-0320	06:41:51.1335	-03:20:48.500	45	+K	0.630	0.027	0	0.54					P
0643+0857	06:43:26.4449	+08:57:38.013	45	+K	0.534	0.021	0	0.28					P
0646+4451	06:46:32.0259	+44:51:16.590	45	+K	0.0	0.0	1	2.9					P
0648-1744	06:48:28.4985	-17:44:05.440	540	CK	0.610	0.038	0	1.11	0.575	0.067	0	1.00	P
0648-3044	06:48:14.0964	-30:44:19.659	180	CK	1.578	0.117	0	0.74	0.0	0.0	-1	0.77	P
0650-1637	06:50:24.5818	-16:37:39.725	45	+K	1.274	0.138	0	2.50					P
0653-0625	06:53:00.5987	-06:25:32.520	30	>K	0.540	0.023	0	0.50					P
0653+3705	06:53:58.2828	+37:05:40.606	180	CK	0.504	0.205	0	0.0	0.0	0.0	-1	0.60	P
0656-0323	06:56:11.1223	-03:23:06.638	45	+K	0.433	0.014	0	0.0					P
0700+1709	07:00:01.5255	+17:09:21.701	180	CK	0.637	0.049	0	0.0	1.218	0.017	0	0.79	P
0702+2644	07:02:31.7918	+26:44:11.051	45	+K	0.264	0.058	0	0.0					P
0703-0051	07:03:19.1067	-00:51:04.949	90	K	0.0	0.0	-1	0.60					P
0710-3850	07:10:43.6362	-38:50:37.036	180	CK	0.0	0.0	-1	0.40	0.0	0.0	-1	0.48	P
0710+4732	07:10:46.1049	+47:32:11.142	180	CK	0.372	0.025	0	0.0	0.534	0.011	0	0.80	P
0717+4538	07:17:51.8524	+45:38:03.261	45	+K	0.0	0.0	-1	0.0					P
0719+3307	07:19:19.4209	+33:07:09.711	45	+K	0.245	0.040	0	0.0					P
0721+0406	07:21:23.9099	+04:06:44.213	30	>K	0.801	0.003	0	0.0					P
0721+7120	07:21:53.4484	+71:20:36.363	45	+K	1.243	0.024	0	1.6					P
0725-0054	07:25:50.6399	-00:54:56.544	15	>K	5.024	0.988	0	1.80					P
0725+1425	07:25:16.8077	+14:25:13.746	180	CK	0.682	0.040	0	0.0	0.937	0.016	0	0.80	P
0726+7911	07:26:11.7351	+79:11:31.016	180	CK	0.0	0.0	1	0.50	0.804	0.011	0	0.80	P*
0728+5701	07:28:49.6316	+57:01:24.374	45	+K	0.251	0.027	0	0.0					P
0730-1141	07:30:19.1124	-11:41:12.600	90	K	5.223	0.673	0	6.65					P
0731-2341	07:31:06.6670	-23:41:47.827	360	CK	0.869	0.097	0	1.39	1.439	0.019	0	1.54	P
0733+5022	07:33:52.5205	+50:22:09.062	180	CK	0.300	0.041	0	0.0	0.589	0.004	0	0.86	P
0735-1735	07:35:45.8124	-17:35:48.502	45	+K	0.281	0.013	0	0.0					P
0738+1742	07:38:07.3937	+17:42:18.998	360	CK	1.024	0.099	0	1.3	1.206	0.010	0	2.20	P
0739+0137	07:39:18.0338	+01:37:04.618	540	CK	0.924	0.150	0	1.7	1.082	0.021	0	1.80	P
0741+3112	07:41:10.7033	+31:12:00.228	720	LCK	1.591	0.111	0	1.20	2.905	0.038	0	1.6	P
0742+4900	07:42:02.7489	+49:00:15.609	45	+K	0.443	0.085	0	0.0					P
0745-0044	07:45:54.0823	-00:44:17.539	45	+K	1.144	0.215	0	1.27					P
0745+1011	07:45:33.0595	+10:11:12.692	360	CK	0.930	0.081	0	1.10	2.251	0.014	0	3.50	P
0747-3310	07:47:19.6883	-33:10:47.127	45	+K	1.845	0.014	0	0.95					P
0748-1639	07:48:03.0880	-16:39:50.160	90	K	0.0	0.0	-1	???					P
0748+2400	07:48:36.1092	+24:00:24.110	180	CK	0.624	0.088	0	0.0	0.942	0.010	0	0.90	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0750+1231	07:50:52.0457	+12:31:04.828	180	CK	1.936	0.158	0	2.70	2.635	0.045	0	1.50	P
0750+8241	07:50:57.7555	+82:41:58.031	360	CK	0.445	0.036	0	0.63	0.825	0.018	0	0.94	P*
0753+5352	07:53:01.3845	+53:52:59.637	45	+K	0.838	0.008	0	1.00					P
0754+4823	07:54:45.6718	+48:23:50.747	15	>K	0.354	0.065	0	0.0					P
0757+0956	07:57:06.6429	+09:56:34.852	15	>K	0.660	0.099	0	1.3					P
0804-2749	08:04:51.4511	-27:49:11.320	30	>K	0.460	0.015	0	0.89					P
0805+6144	08:05:18.1851	+61:44:23.658	45	+K	0.494	0.012	0	0.70					P
0808-0751	08:08:15.5360	-07:51:09.886	360	CK	0.0	0.0	-1	0.77	0.0	0.0	-1	0.9	P
0808+4052	08:08:56.6520	+40:52:44.888	180	CK	0.803	0.059	0	0.0	1.001	0.007	0	0.40	P
0808+4950	08:08:39.6662	+49:50:36.530	180	CK	0.663	0.137	0	0.0	0.752	0.013	0	1.60	P
E0813+481	08:13:36.0518	+48:13:02.262	720	LCK	0.801	0.005	0	???	2.824	0.041	0	—	X
0816-2421	08:16:40.4123	-24:21:06.571	45	+K	0.459	0.011	0	0.58					P
0818+4222	08:18:15.9996	+42:22:45.414	180	CK	0.579	0.159	0	0.0	1.005	0.013	0	1.80	P
0820-1258	08:20:57.4476	-12:58:59.169	540	CK	0.513	0.013	0	0.43	0.780	0.035	0	1.00	P
0823+2223	08:23:24.7591	+22:23:03.288	540	CK	0.700	0.033	0	1.10	1.371	0.015	0	1.39	P
0824+3916	08:24:55.4838	+39:16:41.904	45	+K	0.951	0.071	0	1.20					P
0824+5552	08:24:47.2363	+55:52:42.669	180	CK	0.399	0.047	0	0.0	0.970	0.019	0	1.00	P
0825+0309	08:25:50.3383	+03:09:24.520	90	K	1.809	0.388	0	1.6					P
0826-2230	08:26:01.5729	-22:30:27.202	45	+K	1.357	0.053	0	0.92					P
0828-3731	08:28:04.7802	-37:31:06.280	720	LCK	0.828	0.013	0	1.60	0.0	0.0	-1	2.30	P
0830+2410	08:30:52.0861	+24:10:59.820	180	CK	0.631	0.047	0	1.30	0.792	0.009	0	0.60	P
0831+0429	08:31:48.8769	+04:29:39.085	180	CK	0.569	0.018	0	0.0	0.728	0.014	0	1.00	P
0834+5534	08:34:54.9041	+55:34:21.070	360	CK	0.979	0.007	0	0.90	3.732	0.043	0	5.60	P
0836-2016	08:36:39.2152	-20:16:59.503	360	CK	1.059	0.092	0	2.67	2.667	0.009	0	3.92	P
0836-2233	08:36:50.7687	-22:33:10.088	45	+K	0.317	0.010	0	0.46					P
0837+2454	08:37:40.2456	+24:54:23.121	180	CK	0.285	0.029	0	0.0	0.601	0.002	0	0.60	P
0837+5825	08:37:22.4097	+58:25:01.845	45	+K	0.526	0.062	0	1.10					P
0839+0104	08:39:49.6109	+01:04:26.735	45	+K	0.456	0.008	0	0.0					P
0840+1312	08:40:47.5890	+13:12:23.560	540	CK	0.875	0.125	0	1.90	1.806	0.014	0	1.24	P
0841+7053	08:41:24.3652	+70:53:42.173	90	K	1.921	0.131	0	1.70					P
0847-0703	08:47:56.7372	-07:03:16.902	45	+K	0.0	0.0	-1	0.73					P
0849-3541	08:49:45.6235	-35:41:01.277	45	+K	0.643	0.085	0	0.56					P
0854+2006	08:54:48.8749	+20:06:30.640	180	K	2.629	0.366	0	3.80	0.0	0.0	-1	2.30	P
0858-1950	08:58:05.3632	-19:50:36.935	360	CK	1.247	0.060	0	0.72	1.157	0.023	0	0.70	P
0900-2808	09:00:40.0390	-28:08:20.350	180	CK	0.487	0.023	0	0.82	0.0	0.0	-1	2.06	P
0902-1415	09:02:16.8309	-14:15:30.875	180	CK	0.494	0.033	0	1.04	0.0	0.0	-1	2.10	P
0903+4651	09:03:03.9901	+46:51:04.137	180	CK	1.044	0.578	0	0.0	1.309	0.017	0	1.70	P
0906-2019	09:06:51.3053	20:19:54.804	180	CK	0.462	0.027	0	0.58	0.558	0.021	0	0.70	P
0909+0121	09:09:10.0915	+01:21:35.617	45	+K	1.145	0.159	0	2.1					P
0909+4253	09:09:33.4970	+42:53:46.480	90	K	0.0	0.0	-1	1.0					P
0914+0245	09:14:37.9134	+02:45:59.245	45	+K	0.347	0.052	0	1.4					P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{max} (arcsec)	Tag	SRT Jy	Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Jy	Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
0920+4441	09:20:58.4584	+44:41:53.985	360	CK	1.444	0.081	0	1.30	1.160	0.015	0	1.00	P		
0921-2618	09:21:29.3538	-26:18:43.386	45	+K	1.357	0.036	0	2.02					P		
0921+6215	09:21:36.2310	+62:15:52.180	45	+K	0.903	0.026	0	0.90					P		
0922-3959	09:22:46.4182	-39:59:35.067	45	+K	1.467	0.278	0	1.31					P		
0927+3902	09:27:03.0139	+39:02:20.851	720	LCK	7.605	0.661	0	6.70	11.234	0.038	0	7.60	P		
0929+5013	09:29:15.4402	+50:13:35.990	180	CK	0.324	0.012	0	0.45	0.329	0.001	0	0.41	P		
0937+5008	09:37:12.3273	+50:08:52.097	45	+K	0.702	0.014	0	0.48					P		
0940+2603	09:40:14.7219	+26:03:29.944	45	+K	0.239	0.001	0	0.0					P		
0948+4039	09:48:55.3381	+40:39:44.587	45	+K	0.735	0.057	0	1.30					P		
E0949+661	09:49:12.2100	+66:14:59.321	720	LCK	0.247	0.006	0	0.0	0.987	0.011	0	1.25	X		
0954+1743	09:54:56.8236	+17:43:31.222	360	CK	0.265	0.012	0	0.0	0.633	0.004	0	0.70	P		
0956+2515	09:56:49.8753	+25:15:16.049	180	CK	0.516	0.016	0	0.0	1.269	0.031	0	1.50	P		
0957+5522	09:57:38.1849	+55:22:57.769	540	CK	0.954	0.011	0	0.90	1.646	0.009	0	1.9	P		
0958+3224	09:58:20.9496	+32:24:02.209	15	>K	0.638	0.008	0	0.90					P		
0958+4725	09:58:19.6716	+47:25:07.842	45	+K	1.038	0.047	0	1.60					P		
0958+6533	09:58:47.2451	+65:33:54.818	45	+K	1.194	0.012	0	0.90					P		
1018+0530	10:18:27.8482	+05:30:29.961	45	+K	0.0	0.0	-1	0.0					P		
1018-3123	10:18:28.7520	-31:23:53.878	30	>K	0.740	0.036	0	0.56					P		
1018+3542	10:18:10.9880	+35:42:39.441	45	+K	0.372	0.005	0	0.90					P		
1024+1912	10:24:44.8095	+19:12:20.415	90	K	0.371	0.009	0	0.0					P		
1025+1253	10:25:56.2853	+12:53:49.022	180	CK	0.299	0.033	0	0.0	0.620	0.031	0	0.63	P		
1033+4116	10:33:03.7078	+41:16:06.232	45	+K	1.001	0.012	0	0.90					P		
1033+6051	10:33:51.4289	+60:51:07.334	45	+K	0.989	0.043	0	0.0					P		
1035-2011	10:35:02.1552	-20:11:34.359	90	K	0.718	0.122	0	1.19					P		
1037-2934	10:37:16.0797	-29:34:02.813	180	CK	1.279	0.090	0	2.68	1.258	0.032	0	2.01	P		
1038+0512	10:38:46.7803	+05:12:29.096	45	+K	1.570	0.316	0	1.40					P		
1041+0610	10:41:17.1625	+06:10:16.923	360	CK	0.748	0.016	0	1.20	1.215	0.013	0	1.33	P		
1043+2408	10:43:09.0357	+24:08:35.409	45	+K	0.930	0.020	0	0.80					P		
1044+8054	10:44:23.0625	+80:54:39.443	90	K	1.149	0.026	0	0.88					P		
1045+1735	10:45:14.3605	+17:35:48.088	45	+K	0.447	0.011	0	0.0					P		
1048-1909	10:48:06.6206	-19:09:35.726	180	CK	1.454	0.077	0	1.24	2.288	0.021	0	1.36	P		
1048+7143	10:48:27.6199	+71:43:35.938	45	+K	2.335	0.184	0	1.40					P		
1051+2119	10:51:48.7890	+21:19:52.314	360	CK	0.420	0.042	0	0.0	0.510	0.010	0	0.90	P		
1056+7011	10:56:53.6174	+70:11:45.915	45	+K	0.363	0.019	0	0.0					P		
1058+0133	10:58:29.6052	+01:33:58.823	720	LCK	5.058	0.127	0	4.60	3.651	0.030	0	3.20	P		
1058+8114	10:58:11.5353	+81:14:32.675	45	+K	0.580	0.024	0	0.80					P		
1101+3904	11:01:30.0704	+39:04:32.621	45	+K	0.0	0.0	1	0.0					P		
1101+7225	11:01:48.8053	+72:25:37.118	45	+K	0.829	0.020	0	0.91					P		
1116+0829	11:16:09.9728	+08:29:22.023	45	+K	0.155	0.020	0	0.0					P		
1118-1232	11:18:17.1413	-12:32:54.262	45	+K	0.444	0.019	0	1.18					P		
1118+1234	11:18:57.3014	+12:34:41.718	180	CK	1.111	0.057	0	0.90	1.610	0.017	0	1.30	P		

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
1125+2610	11:25:53.7119	+26:10:19.978	180	CK	0.615	0.030	0	0.0	1.326	0.000	0	1.00	P
1127-1857	11:27:04.3924	-18:57:17.441	90	K	1.404	0.070	0	1.41					P
1130-1449	11:30:07.0525	-14:49:27.388	720	LCK	0.0	0.0	-1	1.87	3.434	0.076	0	4.60	P
1130+3031	11:30:42.4282	+30:31:35.365	45	+K	0.195	0.005	0	0.0					P
1130+3815	11:30:53.2826	+38:15:18.547	45	+K	0.899	0.032	0	1.20					P
1131-0500	11:31:30.5167	-05:00:19.657	15	>K	0.0	0.0	-1	0.77					P
1146+3958	11:46:58.2979	+39:58:34.304	45	+K	2.328	0.034	0	0.90					P
1147-3812	11:47:01.3707	-38:12:11.023	30	>K	0.0	0.0	-1	1.38					P
1150-0023	11:50:43.8707	-00:23:54.204	360	CK	0.0	0.0	-1	0.86	0.0	0.0	-1	1.92	P
1150+2417	11:50:19.2121	+24:17:53.835	180	CK	0.455	0.026	0	0.0	0.781	0.001	0	0.80	P
1152-0841	11:52:17.2095	-08:41:03.313	180	CK	0.520	0.032	0	0.67	0.0	0.0	-1	0.74	P
1153+4931	11:53:24.4666	+49:31:08.830	45	+K	1.865	0.071	0	2.10					P
1153+8058	11:53:12.4991	+80:58:29.154	90	K	0.764	0.023	0	0.88					P
1154-3505	11:54:21.7949	-35:05:28.992	360	CK	0.728	0.133	0	0.89	2.047	0.091	0	3.06	P
1157+1638	11:57:34.8362	+16:38:59.650	45	+K	0.615	0.014	0	0.80					P
1159+2914	11:59:31.8339	+29:14:43.826	720	LCK	0.971	0.014	0	2.00	1.137	0.011	0	1.60	P
1203+4803	12:03:29.8546	+48:03:13.629	45	+K	0.620	0.024	0	0.80					P
1209-2406	12:09:02.4451	-24:06:20.759	90	K	0.0	0.0	-1	1.15					P
1209-3214	12:09:40.0563	-32:14:52.837	45	+K	0.0	0.0	-1	0.32					P
1215+1654	12:15:03.9791	+16:54:37.957	45	+K	0.251	0.025	0	0.0					P
1215-1731	12:15:46.7517	-17:31:45.402	180	CK	0.0	0.0	-1	1.59	1.672	0.058	0	1.76	P
1219+4829	12:19:06.4147	+48:29:56.164	180	CK	0.530	0.024	0	0.70	1.485	0.042	0	0.80	P
1221+2813	12:21:31.6905	+28:13:58.500	90	K	0.420	0.013	0	0.0					P
1222+0413	12:22:22.5496	+04:13:15.776	180	CK	0.558	0.028	0	0.70	0.591	0.009	0	0.7	P
1223+8040	12:23:40.4936	+80:40:04.340	180	CK	0.658	0.019	0	0.48	0.667	0.004	0	0.51	P
1224+0330	12:24:52.4219	+03:30:50.292	180	CK	0.393	0.039	0	0.0	0.0	0.0	-1	1.00	P
1224+2122	12:24:54.4583	+21:22:46.388	15	>K	2.698	0.056	0	0.90					P
1229+0203	12:29:06.6997	+02:03:08.598	15	>K	0.0	0.0	-1	20.0					(3C273) P
1230+1223	12:30:49.4233	+12:23:28.043	15	>K	18.798	0.364	0	19.70					P
1233+8054	12:33:12.8980	+80:54:33.963	45	+K	0.0	0.0	1	0.0					P
1239+0443	12:39:32.7554	+04:43:05.215	45	+K	0.376	0.104	0	0.0					P
1239+0730	12:39:24.5883	+07:30:17.189	180	CK	0.661	0.003	0	0.0	1.070	0.005	0	0.70	P
1239-1023	12:39:43.0614	-10:23:28.692	360	CK	0.687	0.026	0	0.77	1.300	0.117	0	0.90	P
1246-0730	12:46:04.2321	-07:30:46.574	180	CK	0.0	0.0	-1	1.13	1.151	0.006	0	1.10	P
1246-2547	12:46:46.8020	-25:47:49.288	540	CK	0.0	0.0	-1	2.51	1.109	0.020	0	1.24	P
1254+1141	12:54:38.2556	+11:41:05.895	45	+K	0.571	0.023	0	0.90					P
1256-0547	12:56:11.1665	-05:47:21.524	180	CK	0.0	0.0	-1	20.02	27.872	0.125	0	11.20	P
1257-3155	12:57:59.0608	-31:55:16.851	360	CK	0.0	0.0	-1	1.46	1.742	0.018	0	2.03	P
1257+3229	12:57:57.2317	+32:29:29.318	45	+K	0.698	0.010	0	0.70					P
1258-2219	12:58:54.4787	-22:19:31.125	180	CK	0.794	0.022	0	0.87	0.871	0.070	0	1.07	P
1259+5140	12:59:31.1751	+51:40:56.248	45	+K	0.485	0.017	0	0.60					P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Jy	Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Jy	Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
1302+5748	13:02:52.4652	+57:48:37.609	45	+K	0.327	0.015	0	0.80						P	
1305-1033	13:05:33.0150	-10:33:19.428	180	CK	0.870	0.099	0	0.41	0.0	0.0	-1	0.80	P		
1309+1154	13:09:33.9324	+11:54:24.552	90	K	0.418	0.067	0	0.56						P	
1310+3220	13:10:28.6638	+32:20:43.782	45	+K	2.190	0.026	0	2.50						P	
1310+3233	13:10:59.4027	+32:33:34.449	45	+K	0.575	0.014	0	0.0						P	
1316-3338	13:16:07.9859	-33:38:59.172	180	CK	0.0	0.0	-1	1.50	0.929	0.012	0	1.16	P		
1326+3154	13:26:16.5122	+31:54:09.515	360	CK	0.529	0.026	0	0.0	1.700	0.019	0	2.40	P		
1327+2210	13:27:00.8613	+22:10:50.163	180	CK	0.290	0.035	0	0.9	0.706	0.015	0	1.5	P		
1329+3154	13:29:52.8649	+31:54:11.055	90	K	0.0	0.0	-1	0.8						P	
1330+2509	13:30:37.6906	+25:09:10.877	180	CK	0.0	0.0	-1	1.1	2.324	0.037	0	3.29	P		
1331+3030	13:31:08.2879	+30:30:32.958	720	LCK	3.203	0.058	0	2.20	5.858	0.032	0	7.47	(3C286) P		
1332-0509	13:32:04.4646	-05:09:43.305	180	CK	0.0	0.0	-1	0.68	0.0	0.0	-1	0.47	P		
1333+2725	13:33:07.4920	+27:25:18.414	45	+K	0.226	0.025	0	0.8						P	
1337-1257	13:37:39.7827	-12:57:24.693	540	CK	0.0	0.0	-1	6.06	6.438	0.041	0	4.30	P		
1344+6606	13:44:08.6796	+66:06:11.643	45	+K	0.256	0.000	0	0.0						P	
1347+1217	13:47:33.3616	+12:17:24.238	540	CK	0.489	0.195	0	1.0	2.675	0.033	0	2.90	P		
1349+5341	13:49:34.6566	+53:41:17.040	360	CK	0.627	0.011	0	0.0	1.523	0.173	0	0.90	P		
1354-0206	13:54:06.8953	-02:06:03.190	90	K	0.333	0.070	0	0.58						P	
1357-1527	13:57:11.2449	-15:27:28.786	90	K	0.703	0.209	0	0.55						P	
1357-1744	13:57:06.0742	-17:44:01.904	90	K	0.0	0.0	1	0.40						P	
1357+7643	13:57:55.3715	+76:43:21.051	90	K	0.0	0.0	1	0.70						P	
1359+0159	13:59:27.1478	+01:59:54.543	180	CK	0.443	0.019	0	0.0	0.0	0.0	-1	0.86	P		
1408-0752	14:08:56.4812	-07:52:26.666	90	K	1.259	0.356	0	0.86						P	
1409-2657	14:09:50.1697	-26:57:36.979	45	+K	0.311	0.021	0	0.75						P	
EM1411+52	14:11:20.63	+52:12:09.0	540	CK	0.704	0.020	0	0.0	4.090	0.028	0	6.76	(3C295) X		
1415+1320	14:15:58.8174	+13:20:23.712	90	K	0.294	0.070	0	0.9						P	
1418-3509	14:18:58.9169	-35:09:42.506	45	+K	0.0	0.0	1	0.63						P	
1419+3821	14:19:46.6137	+38:21:48.475	30	>K	0.0	0.0	-1	1.1						P	
1419+5423	14:19:46.5974	+54:23:14.787	180	CK	1.060	0.024	0	0.8	1.609	0.022	0	1.10	P		
1425+1424	14:25:49.0180	+14:24:56.902	45	+K	0.379	0.016	0	0.0						P	
1427-3305	14:27:41.3610	-33:05:31.513	45	+K	0.0	0.0	-1	0.80						P	
1432-1801	14:32:57.6906	-18:01:35.248	180	CK	0.0	0.0	-1	0.35	0.0	0.0	-1	0.86	P		
1436+6336	14:36:45.8021	+63:36:37.866	45	+K	0.519	0.020	0	0.5						P	
1438-2204	14:38:09.4694	-22:04:54.748	45	+K	0.0	0.0	-1	1.06						P	
1446+1721	14:46:35.3462	+17:21:07.581	180	CK	0.556	0.022	0	0.0	0.0	0.0	-1	0.80	P		
1457-3539	14:57:26.7117	-35:39:09.970	180	CK	0.770	0.092	0	0.90	1.247	0.021	0	0.93	P		
1459+7140	14:59:07.5838	+71:40:19.867	720	LCK	0.969	0.031	0	1.30	2.214	0.033	0	2.80	P		
1504+1029	15:04:24.9797	+10:29:39.198	360	CK	0.889	0.002	0	1.6	1.021	0.007	0	1.50	P		
1505+0326	15:05:06.4771	+03:26:30.812	45	+K	0.0	0.0	1	0.0						P	
1506+3730	15:06:09.5299	+37:30:51.132	45	+K	0.0	0.0	-1	0.0						P	
1507-1652	15:07:04.7869	-16:52:30.267	360	CK	0.635	0.012	0	1.05	0.0	0.0	-1	2.11	P		

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Jy	+/- Jy	Kflag	KPCAL Jy	SRT Jy	Cflux	+/- Jy	Cflag	CPCAL Jy	Notes
1510-0543	15:10:53.5914	-05:43:07.417	180	CK	0.0	0.0	-1	1.27	1.718	0.009	0	2.33	P	
1511+0518	15:11:41.2652	+05:18:09.264	45	+K	0.270	0.023	0	0.0					P	
1512-0905	15:12:50.5329	-09:05:59.829	540	CK	2.129	0.115	0	2.93	2.930	0.031	0	3.30	P	
1513-1012	15:13:44.8934	-10:12:00.264	15	>K	0.885	0.026	0	1.38					P	
1516+0015	15:16:40.2190	+00:15:01.908	15	>K	0.669	0.013	0	1.6					P	
1516+1932	15:16:56.7961	+19:32:12.991	45	+K	0.0	0.0	-1	0.54					P	
1517-2422	15:17:41.8131	-24:22:19.475	45	+K	1.304	0.047	0	3.45					P	
1521+4336	15:21:49.6138	+43:36:39.267	45	+K	0.0	0.0	-1	0.0					P	
1522-2730	15:22:37.6759	27:30:10.785	360	CK	0.824	0.013	0	1.03	1.505	0.015	0	1.11	P	
1534+0131	15:34:52.4536	+01:31:04.206	45	+K	0.397	0.041	0	0.0					P	
1540+1447	15:40:49.4915	+14:47:45.884	360	CK	0.0	0.0	1	1.0	1.135	0.014	0	1.60	P	
1549+0237	15:49:29.4368	+02:37:01.163	90	K	1.077	0.030	0	2.7					P	
1549+5038	15:49:17.4685	+50:38:05.788	180	CK	0.0	0.0	1	0.9	0.824	0.014	0	0.70	P	
1550+0527	15:50:35.2692	+05:27:10.448	360	CK	1.496	0.333	0	2.5	2.703	0.008	0	1.60	P	
1551+5806	15:51:58.2078	+58:06:44.453	45	+K	0.168	0.048	0	0.0					P	
1553+1256	15:53:32.6978	+12:56:51.716	180	CK	0.308	0.030	0	0.0	0.635	0.005	0	0.70	P	
1557-0001	15:57:51.4339	-00:01:50.413	360	CK	0.0	0.0	-1	0.43	0.0	0.0	-1	0.90	P	
1602+3326	16:02:07.2634	+33:26:53.072	540	CK	0.487	0.013	0	0.9	1.408	0.020	0	2.00	P	
1603+1554	16:03:38.0633	+15:54:02.370	45	+K	0.152	0.014	0	0.0					P	
1604+5714	16:04:37.3552	+57:14:36.675	45	+K	0.452	0.041	0	0.7					P	
1607+1551	16:07:06.4303	+15:51:34.485	180	CK	0.283	0.032	0	0.0	0.434	0.002	0	0.51	P	
1608+1029	16:08:46.2031	+10:29:07.775	45	+K	0.420	0.006	0	2.0					P	
1610-3958	16:10:21.8790	-39:58:58.327	180	CK	0.0	0.0	-1	0.35	0.0	0.0	-1	0.34	P	
1613+3412	16:13:41.0642	+34:12:47.909	90	K	0.0	0.0	-1	4.1					(1611+343) P	
1617+0246	16:17:49.9081	+02:46:43.105	45	+K	0.200	0.012	0	0.0					P	
1619+2247	16:19:14.8246	+22:47:47.851	45	+K	0.285	0.004	0	0.0					P	
1625-2527	16:25:46.8916	-25:27:38.326	720	LCK	1.562	0.074	0	2.06	1.311	0.004	0	1.5	P	
1625+4134	16:25:57.6697	+41:34:40.629	45	+K	0.410	0.009	0	2.06					P	
1626-2951	16:26:06.0208	-29:51:26.971	360	CK	1.001	0.012	0	1.78	2.096	0.021	0	2.50	P	
1631+4927	16:31:16.5398	+49:27:39.515	45	+K	0.334	0.013	0	0.0					P	
1635+3808	16:35:15.4929	+38:08:04.500	360	CK	0.0	0.0	-1	3.9	2.743	0.010	0	2.73	P	
1638+5720	16:38:13.4562	+57:20:23.979	360	CK	0.761	0.008	0	1.3	1.017	0.016	0	1.60	P	
1640+3946	16:40:29.6327	+39:46:46.028	45	+K	0.744	0.069	0	0.0					P	
1642-0621	16:42:02.1770	-06:21:23.700	180	CK	0.514	0.042	0	0.0	0.0	0.0	-1	1.20	P	
1642+3948	16:42:58.8099	+39:48:36.993	720	LCK	0.0	0.0	-1	6.5	1.995	0.012	0	7.80	P	
1642+6856	16:42:07.8485	+68:56:39.756	180	CK	0.895	0.005	0	1.4	3.825	0.654	0	1.60	P	
1645+6330	16:45:58.5526	+63:30:10.922	45	+K	0.576	0.021	0	0.0					P	
1648+4104	16:48:29.2580	+41:04:05.554	45	+K	0.166	0.006	0	0.0					P	
1650-2943	16:50:39.5441	-29:43:46.953	15	>K	0.620	0.029	0	1.01					P	
1653+3945	16:53:52.2166	+39:45:36.608	90	K	0.0	0.0	-1	1.2					P	
1657+4808	16:57:46.8789	+48:08:33.041	360	CK	0.521	0.007	0	0.0	0.0	0.0	-1	0.74	P	

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
1657+5705	16:57:20.7089	+57:05:53.503	180	CK	0.410	0.065	0	0.5	0.588	0.008	0	0.40	P
1658+0515	16:58:33.4473	+05:15:16.444	360	CK	0.256	0.110	0	0.8	0.691	0.008	0	1.70	P
1658+0741	16:58:09.0114	+07:41:27.540	45	+K	0.824	0.004	0	1.4					P
1658+4737	16:58:02.7796	+47:37:49.231	180	CK	0.492	0.005	0	0.0					P
1700-2610	17:00:53.1540	-26:10:51.725	180	CK	1.322	0.142	0	0.51	1.668	0.015	0	0.26	P
1700+6830	17:00:09.2929	+68:30:06.962	45	+K	0.0	0.0	-1	0.2					P
1707+0148	17:07:34.4152	+01:48:45.699	45	+K	0.427	0.004	0	0.8					P
1713-2658	17:13:31.2756	-26:58:52.523	360	CK	0.437	0.004	0	1.39	0.921	0.007	0	1.02	P
1716+6836	17:16:13.9380	+68:36:38.744	30	>K	0.391	0.015	0	0.6					P
1717-3342	17:17:36.0300	-33:42:08.764	90	K	1.100	0.149	0	0.68					P
1719+1745	17:19:13.0484	+17:45:06.436	45	+K	0.475	0.019	0	0.70					P
1724+4004	17:24:05.4288	+40:04:36.456	45	+K	0.454	0.008	0	0.0					P
1727+4530	17:27:27.6508	+45:30:39.731	90	K	0.630	0.001	0	0.9					P
1728+0427	17:28:24.9527	+04:27:04.914	180	CK	0.566	0.005	0	0.0	0.798	0.010	0	0.90	P
1733-1304	17:33:02.7057	-13:04:49.548	720	LCK	2.794	0.034	0	0.0	4.512	0.036	0	5.0	P
1733-3722	17:33:15.1930	-37:22:32.395	180	CK	0.612	0.016	0	1.12	0.0	0.0	-1	0.95	P
1734+3857	17:34:20.5785	+38:57:51.443	180	CK	0.0	0.0	-1	1.2	0.800	0.008	0	1.20	P
1737+0621	17:37:13.7290	+06:21:03.572	180	CK	0.319	0.005	0	0.0	0.471	0.047	0	0.70	P
1739+4737	17:39:57.1290	+47:37:58.361	45	+K	0.398	0.010	0	0.8					P
1739+4955	17:39:27.3904	+49:55:03.368	180	CK	0.277	0.013	0	0.0	0.302	0.006	0	0.62	P
1740+5211	17:40:36.9778	+52:11:43.407	180	CK	0.618	0.011	0	1.2	1.020	0.007	0	0.90	P
1743-0350	17:43:58.8561	-03:50:04.616	180	CK	2.152	0.035	0	3.81	0.0	0.0	-1	2.70	P
1744-3116	17:44:23.5826	-31:16:35.986	45	+K	0.695	0.053	0	0.0					P
1745-0753	17:45:27.1040	-07:53:03.600	90	K	0.943	0.015	0	0.0					P
1745+1720	17:45:35.2081	+17:20:01.423	540	CK	0.443	0.008	0	0.0	0.480	0.009	0	1.10	P
1747+4658	17:47:26.6472	+46:58:50.926	45	+K	0.145	0.001	0	0.0					P
1748+7005	17:48:32.8402	+70:05:50.768	90	K	0.568	0.005	0	0.6					P
1751+0939	17:51:32.8185	+09:39:00.728	90	K	2.879	0.016	0	0.0					P
1753+2848	17:53:42.4736	+28:48:04.939	45	+K	1.140	0.022	0	2.1					P
1753+4409	17:53:22.6479	+44:09:45.686	180	CK	0.225	0.011	0	0.7	0.497	0.004	0	0.90	P
1800+3848	18:00:24.7653	+38:48:30.697	45	+K	0.504	0.012	0	0.9					P
1800+7828	18:00:45.6839	+78:28:04.018	540	CK	1.523	0.018	0	1.8	2.628	0.030	0	2.10	P
1801+4404	18:01:32.3148	+44:04:21.900	180	CK	0.653	0.003	0	1.2	0.839	0.006	0	0.60	P
1802-3940	18:02:42.6800	-39:40:07.905	45	+K	0.560	0.039	0	1.41					P
1806+6949	18:06:50.6806	+69:49:28.108	15	>K	1.056	0.021	0	1.4					P
1810+5649	18:10:03.3191	+56:49:22.968	180	CK	0.363	0.007	0	0.6	0.739	0.009	0	0.59	P
1813+0615	18:13:33.4119	+06:15:42.025	45	+K	0.183	0.004	0	0.0					P
1820-2528	18:20:57.8486	-25:28:12.584	30	>K	0.589	0.018	0	0.71					P
1823+6857	18:23:32.8571	+68:57:52.611	45	+K	0.093	0.007	0	0.0					P
1824+1044	18:24:02.8552	+10:44:23.774	90	K	0.393	0.004	0	0.0					P
1824+5651	18:24:07.0683	+56:51:01.490	540	CK	0.715	0.011	0	1.5	1.138	0.009	0	1.30	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
1829+4844	18:29:31.7832	+48:44:46.161	720	LCK	1.751	0.010	0	2.8	4.229	0.005	0	3.00	P
1830+0619	18:30:05.9398	+06:19:15.952	45	+K	0.373	0.004	0	0.0					P
1832+1357	18:32:43.4711	+13:57:44.400	180	CK	0.207	0.007	0	0.0	0.279	0.009	0	0.82	P
1842+6809	18:42:33.6416	+68:09:25.227	180	CK	0.421	0.010	0	1.1	0.767	0.004	0	0.70	P
1848+3219	18:48:22.0885	+32:19:02.603	45	+K	0.470	0.005	0	0.0					P
1848+3244	18:48:34.3611	+32:44:00.139	45	+K	0.272	0.005	0	0.0					P
1849+6705	18:49:16.0723	+67:05:41.679	180	CK	1.137	0.010	0	1.2	1.610	0.003	0	0.67	P
1850+2825	18:50:27.5898	+28:25:13.155	45	+K	0.558	0.007	0	1.5					P
1851+0035	18:51:46.7217	+00:35:32.414	45	+K	0.554	0.009	0	1.1					P
1856+0610	18:56:31.8386	+06:10:16.754	45	+K	0.177	0.005	0	0.0					P
1902+3159	19:02:55.9388	+31:59:41.702	180	CK	0.853	0.010	0	1.3	1.821	0.006	0	1.40	P
1911-2006	19:11:09.6528	-20:06:55.109	360	CK	1.100	0.030	0	2.67	1.778	0.023	0	3.23	P
1923-2104	19:23:32.1898	-21:04:33.333	720	LCK	1.499	0.027	0	2.55	1.675	0.045	0	3.29	P
1924+1540	19:24:39.4558	+15:40:43.941	45	+K	0.382	0.002	0	0.0					P
1924-2914	19:24:51.0559	-29:14:30.121	720	LCK	7.136	0.047	0	13.8	11.491	0.028	0	6.30	P
1925+2106	19:25:59.6053	+21:06:26.162	540	CK	0.792	0.024	0	0.90	1.450	0.009	0	1.5	P
1927+6117	19:27:30.4426	+61:17:32.879	45	+K	0.461	0.003	0	1.0					P
1927+7358	19:27:48.4951	+73:58:01.569	180	CK	3.481	0.029	0	3.5	3.498	0.033	0	3.00	P
1930+1532	19:30:52.7324	+15:32:34.002	180	CK	0.492	0.009	0	0.0	0.747	0.008	0	0.59	P
1937-3958	19:37:16.2173	-39:58:01.553	180	CK	0.0	0.0	-1	1.76	0.0	0.0	-1	1.64	P
1939-1525	19:39:26.6577	-15:25:43.058	90	K	0.469	0.008	0	1.19					P
1955+1358	19:55:11.5714	+13:58:16.240	45	+K	0.237	0.007	0	0.0					P
1955+5131	19:55:42.7382	+51:31:48.546	45	+K	0.894	0.022	0	0.8					P
1956-3225	19:56:59.4858	-32:25:46.277	45	+K	0.0	0.0	-1	0.71					P
1957-3845	19:57:59.8192	-38:45:06.356	90	K	0.0	0.0	-1	3.76					P
2000-1748	20:00:57.0904	-17:48:57.672	180	CK	2.062	0.025	0	2.46	2.935	0.033	0	2.35	P
2002+4725	20:02:10.4182	+47:25:28.773	90	K	0.503	0.004	0	0.0					P
2005-1822	20:05:17.2931	-18:22:03.322	180	CK	0.432	0.029	0	0.6	0.0	0.0	-1	0.40	P
2005+7752	20:05:30.9985	+77:52:43.247	180	CK	0.411	0.007	0	0.8	0.814	0.005	0	1.60	P
2006+6424	20:06:17.6946	+64:24:45.417	180	CK	0.377	0.005	0	0.0	0.577	0.012	0	0.60	P
2007+4029	20:07:44.9448	+40:29:48.604	45	+K	1.155	0.010	0	0.0					P
2007+6607	20:07:28.7710	+66:07:22.535	45	+K	0.411	0.012	0	0.7					P
2009+7229	20:09:52.3038	+72:29:19.351	180	CK	0.508	0.005	0	0.7	0.948	0.005	0	0.90	P
2011-0644	20:11:14.2158	-06:44:03.555	360	CK	0.294	0.010	0	0.37	0.0	0.0	-1	1.3	P
2011-1546	20:11:15.7109	-15:46:40.253	180	CK	1.012	0.039	0	2.49	1.938	0.029	0	1.55	P
2012+4628	20:12:05.6374	+46:28:55.776	90	K	0.486	0.009	0	0.0					P
2015+3410	20:15:28.8318	+34:10:39.409	30	>K	0.196	0.009	0	0.0					P
2015+3710	20:15:28.7333	+37:10:59.505	45	+K	2.572	0.017	0	0.0					P
2015+6554	20:15:55.3687	+65:54:52.659	45	+K	0.350	0.006	0	0.0					P
2016+1632	20:16:13.8600	+16:32:34.112	45	+K	0.485	0.014	0	0.0					P
E2020+294	20:20:06.5636	+29:42:14.150	720	LCK	0.658	0.009	0	0.0	2.554	0.006	0	4.06	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
2022+6136	20:22:06.6816	+61:36:58.804	540	CK	1.106	0.018	0	1.6	3.073	0.057	0	2.30	P
2023+3153	20:23:19.0173	+31:53:02.305	360	CK	0.891	0.032	0	0.0	1.648	0.003	0	2.80	P
2023+5427	20:23:55.8440	+54:27:35.828	30	>K	0.318	0.006	0	0.7					P
2024-3253	20:24:35.5764	-32:53:35.912	180	CK	0.0	0.0	-1	0.51	0.755	0.015	0	0.78	P
2025-0735	20:25:40.6604	-07:35:52.688	45	+K	0.0	0.0	-1	1.25					P
2025+3343	20:25:10.8420	+33:43:00.214	180	CK	1.463	0.020	0	2.30	2.349	0.012	0	2.8	P
2031+1219	20:31:54.9942	+12:19:41.340	180	CK	0.452	0.013	0	0.0	0.985	0.001	0	0.70	P
2035+1056	20:35:22.3333	+10:56:06.789	540	CK	0.606	0.011	0	0.6	0.860	0.006	0	0.60	P
2038+5119	20:38:37.0347	+51:19:12.662	90	K	2.539	0.041	0	0.0					P
2040-2507	20:40:08.7729	-25:07:46.663	45	+K	0.0	0.0	-1	0.29					P
2049+1003	20:49:45.8649	+10:03:14.398	45	+K	0.283	0.014	0	0.0					P
2051+1743	20:51:35.5829	+17:43:36.900	45	+K	0.315	0.013	0	0.0					P
2101+0341	21:01:38.8341	+03:41:31.321	45	+K	0.474	0.012	0	1.2					P
2101-2933	21:01:01.6599	-29:33:27.836	90	K	0.0	0.0	-1	0.39					P
EM2107+42	21:07:01.5930	+42:14:10.186	180	CK	3.384	0.051	0	0.0	6.133	0.020	0	4.99	(NGC7027)P
2109+3532	21:09:31.8787	+35:32:57.597	30	>K	0.533	0.020	0	0.9					P
2115+2933	21:15:29.4134	+29:33:38.366	180	CK	0.474	0.019	0	0.0	0.751	0.010	0	0.65	P
2123+0535	21:23:44.5173	+05:35:22.093	180	CK	1.044	0.066	0	2.20	1.173	0.015	0	4.5	P
2129-1538	21:29:12.1759	-15:38:41.040	180	CK	0.692	0.048	0	1.07	1.890	0.408	0	1.53	P
2131-1207	21:31:35.2617	-12:07:04.795	180	CK	1.396	0.137	0	2.13	2.084	0.011	0	3.00	P
2134-0153	21:34:10.3096	-01:53:17.238	180	CK	2.230	0.209	0	2.11	0.0	0.0	-1	2.70	P
2136+0041	21:36:38.5863	+00:41:54.213	540	CK	4.750	0.212	0	4.40	9.367	0.020	0	9.90	P
2137+5101	21:37:01.0015	+51:01:36.079	360	CK	0.560	0.006	0	0.0	0.582	0.004	0	1.36	P
2139+1423	21:39:01.3092	+14:23:35.991	540	CK	1.077	0.036	0	2.20	2.583	0.011	0	1.40	P
2146-1525	21:46:22.9793	-15:25:43.885	180	CK	0.0	0.0	-1	0.45	0.615	0.010	0	0.60	P
2147+0929	21:47:10.1629	+09:29:46.672	180	CK	0.509	0.031	0	0.0	0.594	0.033	0	1.30	P
2148+0657	21:48:05.4586	+06:57:38.604	720	LCK	2.033	0.140	0	8.00	3.906	0.020	0	2.50	P
2151+0709	21:51:31.4293	+07:09:26.783	45	+K	0.436	0.022	0	0.0					P
2151-3027	21:51:55.5240	-30:27:53.698	90	K	0.0	0.0	1	1.85					P
2152+1734	21:52:24.8194	+17:34:37.794	180	CK	0.381	0.010	0	0.0	0.680	0.003	0	0.70	P
2156-0037	21:56:14.7579	-00:37:04.594	45	+K	0.0	0.0	-1	0.36					P
2158-1501	21:58:06.2819	-15:01:09.328	540	CK	3.622	0.252	0	1.90	4.340	0.010	0	3.09	P
2201+5048	22:01:43.5372	+50:48:56.388	180	CK	0.546	0.009	0	0.0	0.730	0.012	0	0.82	P
2202+4216	22:02:43.2913	+42:16:39.979	720	LCK	1.040	0.047	0	3.40	4.237	0.011	0	5.40	P
2203+1725	22:03:26.8936	+17:25:48.247	45	+K	0.376	0.015	0	1.50					P
2203+3145	22:03:14.9757	+31:45:38.269	15	>K	0.897	0.014	0	2.70					P
2206-1835	22:06:10.4170	-18:35:38.746	720	LCK	2.085	0.073	0	2.03	3.284	0.022	0	4.42	P
2212+2355	22:12:05.9663	+23:55:40.543	180	CK	0.410	0.012	0	1.30	1.201	0.009	0	0.81	P
2213-2529	22:13:02.4979	-25:29:30.079	45	+K	0.0	0.0	-1	0.80					P
2217+2421	22:17:00.8211	+24:21:45.958	180	CK	0.545	0.021	0	0.0	0.794	0.002	0	0.69	P
2218-0335	22:18:52.0377	-03:35:36.879	90	K	1.075	0.093	0	1.73					P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{\max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
2225-0457	22:25:47.2592	-04:57:01.390	180	CK	2.688	0.252	0	8.32	4.003	0.029	0	3.80	P
2225+2118	22:25:38.0471	+21:18:06.414	360	CK	0.743	0.035	0	0.8	1.456	0.005	0	1.02	P
2226+0052	22:26:46.5370	+00:52:11.331	90	K	0.406	0.007	0	0.0					P
2229-0832	22:29:40.0843	-08:32:54.435	180	CK	1.991	0.067	0	3.23	1.630	0.022	0	1.10	P
2230-3942	22:30:40.2785	-39:42:52.066	15	>K	0.0	0.0	-1	0.49					P
2232+1143	22:32:36.4089	+11:43:50.904	540	CK	1.941	0.142	0	3.40	3.838	0.023	0	4.20	P
2236-1433	22:36:34.0871	-14:33:22.189	180	CK	0.0	0.0	-1	0.31	0.931	0.025	0	0.84	P
2236+2828	22:36:22.4708	+28:28:57.413	360	CK	0.336	0.008	0	1.10	1.036	0.011	0	2.00	P
2241+0953	22:41:49.7173	+09:53:52.445	45	+K	0.357	0.025	0	0.0					P
2244+4057	22:44:12.7319	+40:57:13.617	45	+K	0.595	0.006	0	0.0					P
2246-1206	22:46:18.2319	-12:06:51.277	540	CK	1.850	0.112	0	2.72	1.817	0.045	0	2.80	P
2247+0310	22:47:58.6821	+03:10:42.353	45	+K	0.0	0.0	-1	0.0					P
2247-3657	22:47:03.9173	-36:57:46.303	180	CK	0.0	0.0	-1	0.94	0.0	0.0	-1	1.06	P
2248-3235	22:48:38.6857	-32:35:52.187	45	+K	0.0	0.0	-1	1.47					P
2249+2107	22:49:00.5667	+21:07:02.835	180	CK	0.244	0.021	0	0.0	0.571	0.004	0	0.72	P
2250+5550	22:50:42.8510	+55:50:14.580	45	+K	0.150	0.008	0	0.0					P
2253+1608	22:53:57.7479	+16:08:53.560	720	LCK	5.756	0.229	0	7.40	7.466	0.033	0	10.00	P
2253+1942	22:53:07.3691	+19:42:34.628	45	+K	0.213	0.015	0	0.0					P
2254+1341	22:54:21.0162	+13:41:48.675	90	K	0.312	0.006	0	0.0					P
2255+4202	22:55:36.7078	+42:02:52.532	180	CK	0.0	0.0	-1	1.0	0.927	0.003	0	1.00	P
2256-2011	22:56:41.2077	-20:11:40.509	45	+K	0.351	0.012	0	1.00					P
2257+0243	22:57:17.5630	+02:43:17.511	45	+K	0.0	0.0	-1	0.0					P
2258-2758	22:58:05.9628	-27:58:21.256	360	CK	1.208	0.127	0	2.04	2.290	0.012	0	1.70	P
2301-0158	23:01:07.9784	-01:58:04.585	45	+K	0.634	0.071	0	1.13					P
2301+3726	23:01:27.7374	+37:26:49.243	45	+K	0.360	0.014	0	0.0					P
2311+3425	23:11:05.3290	+34:25:10.900	45	+K	0.445	0.016	0	0.0					P
2314-3138	23:14:48.5006	-31:38:39.526	90	K	0.0	0.0	-1	0.63					P
2320+0513	23:20:44.8565	+05:13:49.952	180	CK	0.446	0.007	0	0.0	0.825	0.040	0	0.60	P
2321+2732	23:21:59.8622	+27:32:46.443	45	+K	0.499	0.008	0	0.0					P
2322+4445	23:22:20.3580	+44:45:42.353	45	+K	0.0	0.0	-1	0.8					P
2322+5057	23:22:25.9821	+50:57:51.963	180	CK	0.0	0.0	-1	0.9	1.405	0.011	0	1.4	P
2323-0317	23:23:31.9537	-03:17:05.023	45	+K	0.845	0.086	0	1.24					P
2327+0940	23:27:33.5805	+09:40:09.462	180	CK	1.682	0.011	0	0.8	0.762	0.016	0	0.64	P
2330+1100	23:30:40.8522	+11:00:18.709	180	CK	0.468	0.004	0	1.0	0.0	0.0	-1	1.00	P
2330+3348	23:30:13.7376	+33:48:36.471	45	+K	0.261	0.002	0	0.8					P
2331-1556	23:31:38.6524	-15:56:57.009	45	+K	0.732	0.030	0	0.79					P
2333-2343	23:33:55.2378	-23:43:40.657	45	+K	0.0	0.0	-1	0.96					P
2334+0736	23:34:12.8281	+07:36:27.552	90	K	0.563	0.035	0	1.10					P
2337-0230	23:37:57.3390	-02:30:57.629	90	K	0.0	0.0	-1	0.57					P
2346+0930	23:46:36.8385	+09:30:45.514	180	CK	0.614	0.073	0	1.20	1.107	0.010	0	1.70	P
2348-1631	23:48:02.6085	-16:31:12.022	540	CK	1.809	0.236	0	2.45	1.246	0.024	0	2.49	P

Table 3: continued.

IAU name	RA (J2000)	Dec (J2000)	θ_{max} (arcsec)	Tag	SRT Kflux Jy	+/- Jy	Kflag	KPCAL Jy	SRT Cflux Jy	+/- Jy	Cflag	CPCAL Jy	Notes
2349+0534	23:49:21.0519	+05:34:39.849	45	+K	0.138	0.004	0	0.0					P
2354-1513	23:54:30.1951	-15:13:11.213	180	CK	0.503	0.059	0	1.10	0.837	0.093	0	0.89	P
2354+4553	23:54:21.6802	+45:53:04.236	180	CK	0.0	0.0	-1	1.6	0.998	0.025	0	0.96	P
2355+4950	23:55:09.4581	+49:50:08.340	360	CK	0.0	0.0	-1	0.9	0.982	0.008	0	1.60	P
2356+8152	23:56:22.7937	+81:52:52.255	180	CK	0.0	0.0	-1	0.8	0.455	0.005	0	0.41	P
2357-1125	23:57:31.1975	-11:25:39.176	180	CK	0.583	0.007	0	0.80	0.0	0.0	-1	1.50	P
2358-1020	23:58:10.8824	-10:20:08.611	180	CK	0.853	0.078	0	1.24	0.0	0.0	-1	0.71	P
2358+1955	23:58:46.0851	+19:55:20.302	45	+K	0.0	0.0	-1	0.0					P