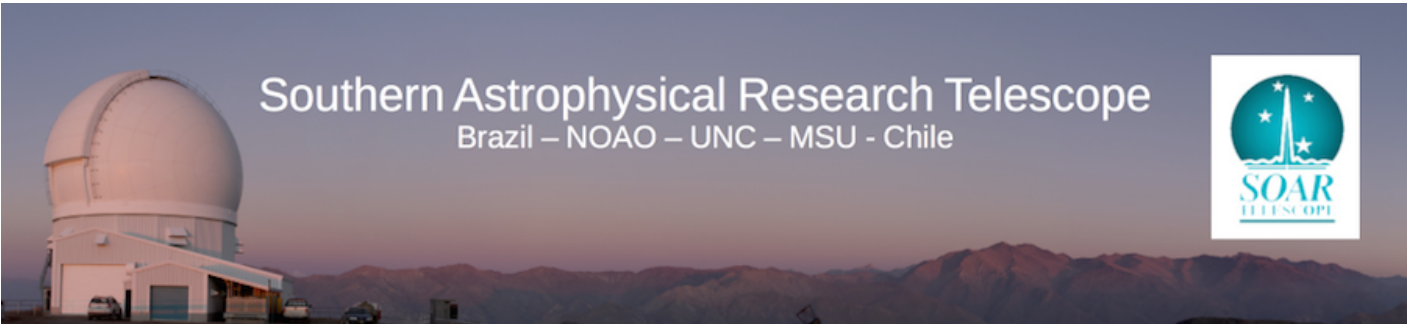




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[Home](#) > [Goodman High Throughput Spectrograph](#) > [Goodman High Throughput Spectrograph](#) > [Calibration Information](#) > Hamuy Spectrophotometric Standards

Hamuy Spectrophotometric Standards

M. Hamuy led a group at CTIO to obtain observations of 10 secondary spectrophotometric standards from [Taylor \(1984\)](#) [1] and 19 tertiary spectrophotometric standards from [Stone & Baldwin \(1983\)](#) [2] and [Stone \(1977\)](#) [3]. These results were published in two papers:(1) [Hamuy et al. \(1992\)](#) [4] and (2) [Hamuy et al. \(1994\)](#) [5]. The former paper covers wavelengths from 3300Å to 7550Å and the latter paper covers wavelengths from 6000Å to 10500Å. The latter paper also combines both sets of observations and presents AB magnitudes for the 10 secondary standards at 16Å intervals from 3300Å to ~10400Å and for the 19 tertiary standards at 50Å intervals from 3300Å to ~10300Å. The AB magnitudes are converted to flux ($\text{erg cm}^{-2} \text{s}^{-1} \text{\AA}^{-1}$) using the formula:

$$\text{AB Mag} = -2.5 \log_{10}(\text{F}_\nu) - 48.59$$
 where F_ν is in $\text{erg cm}^{-2} \text{s}^{-1} \text{Hz}^{-1}$.

Secondary Spectrophotometric Standard Stars								
HR#	Star	Dec (J2000.0)	MKType	(U-B)	(B-V)	V	(V-R) _{KC}	(V-I) _{KC}

718	ξ^2 Cet	0+ 20 :8 2: 82 :7 0: 93 .6 5. 42	B9 III	-0.107	-0.056	4.279	-0.023	-0.063
1544	π^2 Ori	0+ 40 :8 5: 05 :4 3: 60 .0 6. 97	A1 V	...	0.01	4.355	0.014	0.039
3454	η Hya	0+ 80 :3 4: 32 :3 1: 35 .5 4. 61	B3 V	-0.743	-0.200	4.295	-0.083	-0.200
4468	θ Crt	1- 10 :9 3: 64 :8 4: 00 .8 9. 12	B9.5 V	-0.18	-0.07	4.700	-0.023	-0.063
4963	θ Vir	1- 30 :5 0: 93 :2 5: 62 .0 9. 65	A1 IV	-0.01	-0.00	4.375	0.003	0.010

5501	108 Vir	1+ 40 :0 4: 54 :3 3: 00 .2 2. 57	B9.5 V	-0.080	-0.023	5.681	0.004	-0.026
7001	α Lyr	1+ 83 :8 3: 64 :7 5: 60 .1 3. 31	A0 V	0.00	0.00	0.03	-0.037	-0.045
7596	58 Aql	1+ 90 :0 5: 41 :6 4: 42 .4 8. 06	A0 II1	-0.01	0.10	5.62	...	...
7950	ε Aqr	2- 00 :9 4: 72 :9 4: 04 .4 5. 57	A1 V	0.029	-0.001	3.778	-0.005	-0.010
8634	ζ Peg	2+ 21 :0 4: 14 :9 2: 75 .3 6. 42	B8 V	-0.24	-0.09	3.40	-0.037	-0.079

9087	29 Psc	00:00:10.1493420	B7 III-IV	-0.501	-0.136	5.120	-0.052	-0.122
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Tertiary Spectrophotometric Standard Stars											
Star	RA (J2000)	Dec (J2000)	Type	(U-B)	(B-V)	V	(V-R) _{KC}	(R-I) _{KC}	PM (RA) (" yr ⁻¹)	PM (Dec) (" yr ⁻¹)	Plots
¹ CD-34 241	00:41:46.9	-33:39:09	f	-0.065	+0.478	11.229	+0.295	+0.289	-0.45	-0.25	finder [6]/ spectrum [7]
LTT 1020	01:54:49.7	-27:28:29	g	-0.186	+0.557	11.522	+0.361	+0.364	0.33	-0.21	finder [8]/ spectrum [9]
EG 21	03:10:30.4	-68:36:05	DA	-0.661	+0.039	11.379	-0.093	-0.064	0.00	-0.30	finder [10]/ spectrum [11]
LTT 1788	03:48:22.2	-39:08:35	f	-0.281	+0.469	13.155	+0.317	+0.332	0.24	-0.19	finder [12]/ spectrum [13]
LTT 2415	05:56:24.2	-27:51:26	...	-0.215	+0.400	12.214	+0.267	+0.293	0.30	-0.18	finder [14]/ spectrum [15]
Hiltner 600	06:45:13.5	+02:08:15	B1	-0.574	+0.179	10.441	+0.120	+0.140	...	...	finder [16]/ spectrum [17]
LTT 3218	08:41:32.4	-32:56:33	DA	-0.574	+0.220	11.858	+0.096	+0.111	-1.10	1.34	finder [18]/ spectrum [19]
LTT 3864	10:32:13.8	-35:37:42	f	-0.167	+0.495	12.171	+0.323	+0.329	-0.34	-0.01	finder [20]/ spectrum [21]
LTT 4364	11:45:42.9	-64:50:29	C2	-0.664	+0.162	11.504	+0.173	+0.127	6.19	-0.33	finder [22]/ spectrum [23]
² Feige 56	12:06:47.3	+11:40:13	sdB8	...	-0.13	11.06	...	...	-0.007	-0.007	finder [24]/ spectrum [25]
LTT 4816	12:38:50.7	-49:47:58	DA	-0.656	+0.166	13.794	+0.013	+0.027	-0.86	-0.13	finder [26]/ spectrum [27]

CD-32 9927	14:11:46.3	-33:03:15	A4	...	+0.349	10.444	+0.324	+0.014	-0.004	0.007	finder [28]/ spectrum [29]
LTT 6248	15:38:59.8	-28:35:34	a	-0.197	+0.491	11.797	+0.319	+0.345	-0.25	-0.18	finder [30]/ spectrum [31]
EG 274	16:23:33.7	-39:13:48	DA	-0.969	-0.144	11.029	-0.093	-0.096	0.10	-0.01	finder [32]/ spectrum [33]
LTT 7379	18:36:26.2	-44:18:37	G0	-0.020	+0.605	10.225	+0.366	+0.366	-0.22	-0.16	finder [34]/ spectrum [35]
LTT 7987	20:10:57.1	-30:13:03	DA	-0.670	+0.046	12.230	-0.062	-0.078	-0.43	-0.24	finder [36]/ spectrum [37]
LTT 9239	22:52:40.9	-20:35:27	f	-0.110	+0.609	12.068	+0.397	+0.372	0.10	-0.33	finder [38]/ spectrum [39]
Feige 110	23:19:58.3	-05:09:56	sdO8	-1.09	-0.05	11.50	-0.47	-0.175	-0.011	0.0	finder [40]/ spectrum [41]
LTT 9491	23:19:35.2	-17:05:28	DC	-0.843	+0.007	14.112	+0.045	+0.031	0.27	0.05	finder [42]/ spectrum [43]
Notes: ¹ CD-34 241 is mistakenly named LTT 377 in Stone and Baldwin (1983) and Hamuy et al. (1992 & 1994). ² The coordinates of Feige 56 are given incorrectly in Hamuy et al. (1992).											

Source URL: <http://www.ctio.noirlab.edu/soar/content/hamuy-spectrophotometric-standards>

Links

- [1] <http://adsabs.harvard.edu/abs/1984ApJS...54..259T>
- [2] <http://adsabs.harvard.edu/abs/1983MNRAS.204..347S>
- [3] <http://adsabs.harvard.edu/abs/1977ApJ...218..767S>
- [4] <http://adsabs.harvard.edu/abs/1992PASP..104..533H>
- [5] <http://adsabs.harvard.edu/abs/1994PASP..106..566H>
- [6] http://www.ctio.noirlab.edu/soar/sites/default/files/GOODMAN/Hamuy/cd-34241_dss.pdf
- [7] http://www.ctio.noirlab.edu/soar/sites/default/files/GOODMAN/Hamuy/cd-34241_spec.pdf
- [8] http://www.ctio.noirlab.edu/soar/sites/default/files/GOODMAN/Hamuy/ltt1020_dss.pdf
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