

Table 1

File	Object	RA set	DEC set	Filter	Date	UT-START	Log Differences	Comments (N to left E down, rotate 270 CCW)
fr85e001.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	V	07/21/85	+10:26:30		
fr85e002.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	V	07/21/85	+10:31:17		
fr85e003.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	V	07/21/85	+10:35:51		
fr85e004.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	R	07/21/85	+10:38:39		
fr85e005.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	R	07/21/85	+10:41:28		
fr85e006.fits	21P/ Giacobini- Zinner	23:51:10.09	+58:20:56.0	I	07/21/85	+10:48:31		
fr85e007.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	I	07/21/85	+10:51:44		
fr85e008.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	B	07/21/85	+10:54:32		
fr85e009.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	B	07/21/85	+10:57:13		
fr85e010.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	B	07/21/85	+11:03:14		
fr85e011.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	V	07/21/85	+11:04:08		
fr85e012.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	R	07/21/85	+11:04:58		
fr85e013.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	R	07/21/85	+11:06:04		
fr85e014.fits	21P/ Giacobini- Zinner	23:51:18.27	+58:21:18.7	V	07/21/85	+11:11:22		
fr85e015.fits	"FLAT FIELD"			V	07/21/85			
fr85e016.fits	"FLAT FIELD"			V	07/21/85			
fr85e017.fits	"FLAT FIELD"			R	07/21/85			
fr85e018.fits	"FLAT FIELD"			R	07/21/85			
fr85e019.fits	"FLAT FIELD"			I	07/21/85			
fr85e020.fits	"FLAT FIELD"			I	07/21/85			
fr85e021.fits	"FLAT FIELD"			B	07/21/85			
fr85e022.fits	"FLAT FIELD"			B	07/21/85			
fr85e023-149								
fr85e150.fits	"DESK LAMP"				07/22/85		xDate	log says 24/25
fr85e151.fits	Helium Lamp				07/22/85		xDate	log says 24/25
fr85e152.fits	Helium Lamp				07/22/85		xDate	log says 24/25
fr85e153.fits	Mercury Lamp				07/22/85		xDate	log says 24/25

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N to left E down, rotate 270 CCW)
fr85e154.fits	Mercury Lamp				07/22/85		xDate	log says 24/25
fr85e155.fits	Xenon Lamp				07/22/85		xDate	log says 24/25
fr85e156.fits	Xenon Lamp				07/22/85		xDate	log says 24/25
fr85e157.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:02:50	xDate, xtime	log says 24/25
fr85e158.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:10:38	xDate, xtime	log says 24/25
fr85e159.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:13:06	xDate, xtime	log says 24/25
fr85e160.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:15:11	xDate, xtime	log says 24/25
fr85e161.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:18:27	xDate, xtime	log says 24/25
fr85e162.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:21:38	xDate, xtime	log says 24/25
fr85e163.fits	"BS 6629"	17:47:53.56	+02:42:26.2		07/22/85	+17:25:00	xDate, xtime	log says 24/25
fr85e164.fits	21P/ Giacobini-Zinner	00:18:27.89	+59:20:12.9		07/25/85	+07:05:07		
fr85e165.fits	21P/ Giacobini-Zinner	00:18:27.89	+59:20:12.9		07/25/85	+07:08:24		
fr85e166.fits	21P/ Giacobini-Zinner	00:18:27.89	+59:20:12.9		07/25/85	+07:17:48		
fr85e167.fits	21P/ Giacobini-Zinner	00:18:37.14	+59:20:29.6		07/25/85	+07:29:08		
fr85e168.fits	21P/ Giacobini-Zinner	00:18:37.14	+59:20:29.6		07/25/85	+07:40:58		
fr85e169.fits	21P/ Giacobini-Zinner	00:18:46.37	+59:20:46.2		07/25/85	+07:57:02		
fr85e170.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+08:32:54		
fr85e171.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+08:37:49		
fr85e172.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+08:39:39		
fr85e173.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+08:40:42		
fr85e174.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+08:41:57		
fr85e175.fits	21P/ Giacobini-Zinner	00:19:04.80	+59:21:18.9		07/25/85	+08:53:54		
fr85e176.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+09:34:34		
fr85e177.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+09:36:48		
fr85e178.fits	"BS 5"	00:06:15.81	+58:26:12.2		07/25/85	+09:38:33		
fr85e179.fits	"NGC 7469"	23:03:15.62	+08:52:26.4		07/25/85	+10:20:02		
fr85e180.fits	"NGC 7469"	23:03:15.62	+08:52:26.4		07/25/85	+10:32:16		
fr85e181.fits	"NGC 7469"	23:03:15.62	+08:52:26.4		07/25/85	+10:45:35		
fr85e182.fits	"NGC 7469"	23:03:15.62	+08:52:26.4		07/25/85	+10:51:45		
fr85e183.fits	DARK				07/25/85	+10:59:15		
fr85e184.fits	DARK				07/25/85	+11:00:11		
fr85e185.fits	DARK				07/25/85	+11:01:06		
fr85e186.fits	DARK				07/25/85	+11:02:03		
fr85e187.fits	"FLAT FIELD"				07/25/85	+11:20:17		
fr85e188.fits	"FLAT FIELD"				07/25/85	+11:22:51		
fr85e189.fits	"FLAT FIELD"				07/25/85	+11:24:02		
fr85e190.fits	"FLAT FIELD"				07/25/85	+11:25:44		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N to left E down, rotate 270 CCW)
fr85e191.fits	"FLAT FIELD"				07/25/85	+11:27:39		
fr85e192.fits	"FLAT FIELD"				07/25/85	+11:29:00		
fr85e194.fits	Alpha Coronae Borealis	15:34:41.37	+26:42:52.6	R	07/26/85	+04:16:56	xName	Alpha Coronae Borealis
fr85e195.fits	Alpha Coronae Borealis	15:34:41.37	+26:42:52.6	R	07/26/85	+04:18:34	xName	
fr85e196.fits	Alpha Coronae Borealis	15:34:41.37	+26:42:52.6	R	07/26/85	+04:21:33	xName	
fr85e197.fits	Alpha Coronae Borealis	15:34:41.37	+26:42:52.6	R	07/26/85	+04:23:47	xName	
fr85e198.fits	Beta Coronae Borealis	15:27:49.73	+29:06:20.5	R	07/26/85	+04:40:29	xName	Beta Coronae Borealis
fr85e199.fits	Beta Coronae Borealis	15:27:49.73	+29:06:20.5	R	07/26/85	+04:42:52	xName	
fr85e200.fits	Beta Coronae Borealis	15:27:49.73	+29:06:20.5	R	07/26/85	+04:45:42	xName	
fr85e201.fits	Beta Coronae Borealis	15:27:49.73	+29:06:20.5	R	07/26/85	+04:47:58	xName	
fr85e202.fits	Gamma Serpentis	15:56:27.18	+15:39:41.8	R	07/26/85	+05:00:35		Gamma Serpentis
fr85e203.fits	Gamma Serpentis	15:56:27.18	+15:39:41.8	R	07/26/85	+05:02:32		
fr85e204.fits	Gamma Serpentis	15:56:27.18	+15:39:41.8	R	07/26/85	+05:04:32		
fr85e205.fits	Gamma Serpentis	15:56:27.18	+15:39:41.8	R	07/26/85	+05:06:24		
fr85e206.fits	Zeta Herculis	16:41:17.16	+31:36:09.8	R	07/26/85	+05:20:14		Zeta Herculis
fr85e207.fits	Zeta Herculis	16:41:17.16	+31:36:09.8	R	07/26/85	+05:21:44		
fr85e208.fits	Zeta Herculis	16:41:17.16	+31:36:09.8	R	07/26/85	+05:25:19		
fr85e209.fits	SAO 208591	17:15:35.95	-38:35:38.0	R	07/26/85	+05:44:26		SAO 208591
fr85e210.fits	SAO 208591	17:15:35.95	-38:35:38.0	R	07/26/85	+05:47:26		SAO 208591
fr85e211.fits	SAO 208591	17:15:35.95	-38:35:38.0	R	07/26/85	+05:49:20		SAO 208591
fr85e212.fits	NU-SCO			R	07/26/85	+05:56:40		RA/DEC does not match from log or from DSS
fr85e213.fits	NU-SCO			R	07/26/85	+06:04:03		RA/DEC does not match from log or from DSS
fr85e214.fits	NU-SCO			R	07/26/85	+06:10:09		RA/DEC does not match from log or from DSS
fr85e215.fits	Mu Herculis	17:46:27.53	+27:43:14.4	R	07/26/85	+06:38:18		Mu Herculis
fr85e216.fits	Mu Herculis	17:46:27.53	+27:43:14.4	R	07/26/85	+06:41:10		
fr85e217.fits	Mu Herculis	17:46:27.53	+27:43:14.4	R	07/26/85	+06:42:50		
fr85e218.fits	Mu Herculis	17:46:27.53	+27:43:14.4	R	07/26/85	+06:44:22		
fr85e219.fits	102 Herculis	18:08:45.49	+20:48:52.4	R	07/26/85	+07:10:01		102 Herculis
fr85e220.fits	102 Herculis	18:08:45.49	+20:48:52.4	R	07/26/85	+07:13:03		
fr85e221.fits	102 Herculis	18:08:45.49	+20:48:52.4	R	07/26/85	+07:14:39		
fr85e222.fits	SAO 35498	23:31:22.21	+59:09:55.9	R	07/26/85	+07:45:29		
fr85e223.fits	SAO 35498	23:31:22.21	+59:09:55.9	R	07/26/85	+07:48:40		
fr85e224.fits	SAO 35498	23:31:22.21	+59:09:55.9	R	07/26/85	+07:51:10		
fr85e225.fits	SAO 35498	23:31:22.21	+59:09:55.9	R	07/26/85	+07:54:51		
fr85e226.fits	"BS 8752"	23:00:05.1	+56:56:43.4	R	07/26/85	+08:26:00		
fr85e227.fits	"BS 8752"	23:00:05.1	+56:56:43.4	R	07/26/85	+08:23:17		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N to left E down, rotate 270 CCW)
fr85e228.fits	"BS 8752"	23:00:05.1	+56:56:43.4	R	07/26/85	+08:28:01		
fr85e229.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	R	07/26/85	+08:55:47		
fr85e230.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	R	07/26/85	+09:00:33		
fr85e231.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	R	07/26/85	+09:06:54		
fr85e232.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	V	07/26/85	+09:11:52	xfilter	
fr85e233.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	V	07/26/85	+09:14:14	xfilter	
fr85e234.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	B	07/26/85	+09:19:08		
fr85e235.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	B	07/26/85	+09:22:03		
fr85e236.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	I	07/26/85	+09:28:03		
fr85e237.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	I	07/26/85	+09:30:45		
fr85e238.fits	"NGC 7469"	23:03:15.62	+08:52:26.4	I	07/26/85	+09:33:12		
fr85e239.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	I	07/26/85	+09:54:09		SA 68-216/280
fr85e240.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	I	07/26/85	+09:55:18		
fr85e241.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	R	07/26/85	+10:19:22		
fr85e242.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	R	07/26/85	+10:21:23		
fr85e243.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	V	07/26/85	+10:22:57		
fr85e244.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	V	07/26/85	+10:24:50		
fr85e245.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	V	07/26/85	+10:25:55		
fr85e246.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	B	07/26/85	+10:28:43		
fr85e247.fits	"SA 68-216"	00:18:17.04 00:18:04.83	+15:49:19.2 +15:54:20.4	B	07/26/85	+10:29:51		
fr85e248.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	B	07/26/85	+10:44:47		
fr85e249.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	B	07/26/85	+10:48:05		
fr85e250.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	V	07/26/85	+10:50:10		
fr85e251.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	V	07/26/85	+10:51:55		
fr85e252.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	R	07/26/85	+10:53:41		
fr85e253.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	R	07/26/85	+10:55:24		
fr85e254.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	R	07/26/85	+10:57:09		
fr85e255.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	V	07/26/85	+10:59:08		
fr85e256.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	I	07/26/85	+11:01:00		

File	Object	RA set	DEC set	Filter	Date	UT-STRT	Log Differences	Comments (N to left E down, rotate 270 CCW)
fr85e257.fits	21P/ Giacobini- Zinner	00:27:17.41	+59:33:42.8	I	07/26/85	+11:03:08		
fr85e258.fits	"FLAT FIELD"			B	07/26/85			
fr85e259.fits	"FLAT FIELD"			B	07/26/85			
fr85e260.fits	"FLAT FIELD"			B	07/26/85			
fr85e261.fits	"FLAT FIELD"			V	07/26/85			
fr85e262.fits	"FLAT FIELD"			V	07/26/85			
fr85e263.fits	"FLAT FIELD"			V	07/26/85			
fr85e264.fits	"FLAT FIELD"			R	07/26/85			
fr85e265.fits	"FLAT FIELD"			R	07/26/85			
fr85e266.fits	"FLAT FIELD"			R	07/26/85			
fr85e267.fits	"FLAT FIELD"			I	07/26/85			
fr85e268.fits	"FLAT FIELD"			I	07/26/85			
fr85e269.fits	"FLAT FIELD"			I	07/26/85			
fr85e270.fits	DARK			DARK	07/26/85			
fr85e271.fits	DARK			DARK	07/26/85			
fr85e272.fits	DARK			DARK	07/26/85			