H - ALPHA S O L A R F L A R E S

NOVEMBER 1987

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
		01	0035		0037	No Flare Patrol													
		01	0243		0259	No Flare Patrol													
0001		01	08586	0910	0912	S20	W73	4881	10	26.9	14	SF					18		
	KANZ	01	0858	0910	0912	S20	W73	4881	10	26.9	14	SF		2					
	LEAR	01	0904	0910	0912	S21	W73	4881	10	26.9	8	SF		3	C		18		
0002	KANZ	01	1031	1035	1053	S21	W71	4881	10	27.1	22	SF		2					
0003	CATA	01	1125E	1125	1145D	S20	W06	4878	11	1.0	20D	SN		2	P	1125	112	1.3	H
		01	1348		1354	No Flare Patrol													
0004	RAMY	01	1726E	1728	1746	S22	W76	4881	10	27.0	20D	SF	C 1.2	3	C				
		01	1826		1833	No Flare Patrol													
0005	RAMY	01	1845	1849	1855	S22	W75	4881	10	27.1	10	SF		3	C				
		01	1858		1900	No Flare Patrol													
0006	RAMY	01	1938	1939	1946	S22	E81	4883	11	8.0	8	SF	C 1.7	3	C				
		01	2005		2046	No Flare Patrol													
		01	2156		2224	No Flare Patrol													
0007	LEAR	02	0120	0124	0128	N31	W26	4875	10	31.0	8	SF		3	C		12		
0008	ABST	02	0518	0519	0537	S23	W15	4878	11	1.1	19	1F			C	0519	174	2.1	EV
0009		02	10132	10201	1040	S23	E74	4883	11	8.1	27	1B					84		DL
	KHAR	02	1013	1021	1040	S21	E75	4883	11	8.2	27	SN			V	1021			DL
	CATA	02	1015	1020	1041	S25	E74	4883	11	8.1	26	1B		2	C	1020	84		
		02	1303		1316	No Flare Patrol													
0010	RAMY	02	1317E	1317U	1342	S22	E72	4883	11	8.1	25D	SF	C 1.0	2	C		32		FH
0011	RAMY	02	1317E	1319U	1324	N30	W43	4875	10	30.3	7D	SF		2	C		13		
0012		02	1347*	13561	1435	N28	W36	4875	10	30.9	48	SF					66		F
	RAMY	02	1347	1356	1435	N27	W38	4875	10	30.7	48	SF		3	C		66		F
	KANZ	02	1357	1357	1405D	N29	W35	4875	10	30.9	8D	SF		2					
0013		02	13552	13563	1421	S24	E62	4882	11	7.4	26	SB	C 7.0				57		
	RAMY	02	1355	1356	1421	S23	E65	4882	11	7.6	26	SB	C 7.0	3	C		57		
	KANZ	02	1357	1359	1405D	S26	E60	4882	11	7.2	8D	SN		2					
0014	RAMY	02	1459	1459	1510	S19	E70	4883	11	8.0	11	SF	C 1.0	3	C		23		
0015	RAMY	02	1655	1656	1702	N30	W45	4875	10	30.3	7	SN		3	C		31		
0016	RAMY	02	1813	1819	1840	S23	E57	4882	11	7.1	27	1B	C 7.8	3	C		133		FR
0017		02	2032*	20424	2108	N30	W37	4875	10	31.0	36	SF	C 1.5				32		F
	HOLL	02	2032	2046	2111	N29	W38	4875	10	31.0	39	SF	C 1.5	3	C		42		F
	PALE	02	2042	2042	2104	N30	W36	4875	10	31.0	22	SF	C 1.5	3	C		23		F
0018	HOLL	02	2212	2213	2217	S21	E66	4883	11	8.0	5	SF		3	C		20		
		03	0202		0215	No Flare Patrol													
0019	VORO	03	0216E	0221U	0231	N29	W53	4875	10	30.0	15D	SF			C	0221	108	1.8	DIJ
0020	LEAR	03	0509	0510	0521	N28	W43	4875	10	30.9	12	SF		3	C		21		
0021	LEAR	03	0705	0705	0725	N30	W43	4875	10	31.0	20	SF	C 1.0	3	C		28		

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
0022		03	07261	0745	0806	N29	W46	4875	10	30.8	40	SN					52	1.2	E
	HTPR	03	0726	0745	0820	N28	W48	4875	10	30.6	54	SN			C	0745	80	1.2	E
	LEAR	03	0727	0745	0753	N30	W43	4875	10	31.0	26	SF		3	C		24		
0023		03	09062	09103	0943	N29	W46	4875	10	30.9	37	SN	C 4.1				177	3.8	BEI
	LEAR	03	0906	0910	0953	N30	W44	4875	10	31.0	47	SF	C 4.1	3	C		70		
	KANZ	03	0908	0913	0930	N30	W45	4875	10	30.9	22	SN	C 4.1		P	0908	62	1.0	EI
	KHAR	03	0920E	0920D	0945	N29	W50	4875	10	30.6	25D	2N			P	0924	400	6.7	BE
	KANZ	03	0927E		0933D	N28	W47	4875	10	30.8	6D	SF		1					
0024	HTPR	03	1017E		1045	N32	W51	4875	10	30.5	28D	SF			C	1038	20	0.3	
0025	HTPR	03	1113	1117	1137	S23	E58	4883	11	7.9	24	SN			C	1117	60	1.2	E
0026		03	12137	1216*	1236	N34	W50	4875	10	30.6	23	SN					35	0.6	E
	HTPR	03	1213	1216	1235	N37	W48	4875	10	30.7	22	SF			C	1216	30	0.5	E
	HTPR	03	1220	1230	1236	N32	W51	4875	10	30.6	16	SN			C	1230	40	0.6	E
0027		03	13083	13121	1332	N31	W47	4875	10	30.9	24	SN					36	0.7	E
	HTPR	03	1308	1313	1332	N32	W47	4875	10	30.9	24	SN			C	1313	50	0.7	E
	RAMY	03	1311	1312	1333	N30	W47	4875	10	30.9	22	SF		3	C		22		
0028		03	13524	13563	1404	N31	W52	4875	10	30.6	12	SN					45	0.8	E
	HTPR	03	1352	1356	1402	N32	W52	4875	10	30.6	10	SB			C	1356	70	1.2	E
	RAMY	03	1355	1356	1400	N28	W56	4875	10	30.3	5	SF		3	C		46		
	HTPR	03	1356	1359	1410	N32	W48	4875	10	30.9	14	SN			C	1359	20	0.3	E
0029		03	16215	1626	1628	N29	W48	4875	10	31.0	7	SF					20		F
	RAMY	03	1621	1626	1627	N28	W48	4875	10	31.0	6	SF		3	C		27		
	HOLL	03	1626	1626	1629	N30	W49	4875	10	30.9	3	SF		3	C		14		F
0030	RAMY	03	1637	1639	1644	S19	E55	4883	11	7.9	7	SF		3	C		11		
0031		03	1701*	17119	1726	N28	W53	4875	10	30.7	25	SN					33		F
	RAMY	03	1701	1711	1717	N29	W55	4875	10	30.5	16	SF		3	C		29		
	RAMY	03	1718	1720	1736	N28	W51	4875	10	30.8	18	SN		3	C		37		F
0032	HOLL	03	1746	1749	1754	S21	E63	4883	11	8.6	8	SF		3	C		14		F
0033		03	1703*	1817*	1838	N29	W51	4875	10	30.8	95	SF	C 1.0				20		F
	HOLL	03	1703	1818	1825	N28	W52	4875	10	30.7	82	SF		3	C		23		F
	PALE	03	1817	1817	1830	N29	W51	4875	10	30.9	13	SF		3	C		11		
	HOLL	03	1826	1830	1859	N30	W50	4875	10	30.9	33	SF	C 1.0	3	C		26		F
0034	HOLL	03	1946	1959	2008	S22	W43	4878	10	31.5	22	SF		3	C		30		H
0035	HOLL	03	2112	2118	2121	S19	E51	4883	11	7.8	9	SF		3	C		17		
0036	HOLL	03	2203	2204	2211	N30	W59	4875	10	30.4	8	SF		3	C		37		H
0037	YUNN	04	0133E	0133U	0135D	S23	E40	4882	11	7.1	2D	SN			P	0133	115	1.7	D
0038	YUNN	04	0221	0222	0225	N32	W63	4875	10	30.2	4	1N			C		99	2.4	D
0039	YUNN	04	0225	0226	0235	S21	E56	4883	11	8.4	10	SN			C		33	0.7	D
0040	LEAR	04	0536	0536	0540	N30	W63	4875	10	30.4	4	SF		3	C		14		
0041		04	08004	08042	0812	N30	W65	4875	10	30.3	12	SF					46	2.0	EF
	SVTO	04	0800E	0802U	0811	N30	W66	4875	10	30.2	11D	SF		3	C		24		
	HTPR	04	0800	0806	0817	N30	W62	4875	10	30.5	17	SN			C	0806	100	2.0	E
	LEAR	04	0804	0804	0809	N31	W66	4875	10	30.2	5	SF		3	C		13		F
0042	HTPR	04	0927	0931	0958	S27	E47	4883	11	8.0	31	SN			C	0931	60	1.0	E
0043	HTPR	04	0940	0945	1000	N30	W63	4875	10	30.5	20	SN			C	0945	30	0.6	E

H - ALPHA SOLAR FLARES

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Imp See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
0044		04	1033*	1046*	1136	S23	E45	4883	11	7.9	63	SN					65	0.9	EK
	HTPR	04	1033	1046	1143	S22	E43	4883	11	7.7	70	SN			C	1134	70	0.9	EK
	HTPR	04	1033	1134	1143	S22	E43	4883	11	7.7	70	SN			C				EK
	HTPR	04	1043	1047	1122	S26	E48	4883	11	8.2	39	SN			C	1047	60	0.9	E
0045	HTPR	04	1123	1212	1241	S20	W55	4878	10	31.3	78	SF			C	1212	20	0.3	
0046	HTPR	04	1145	1150	1202	N32	W68	4875	10	30.2	17	SF			C	1150	20	0.5	
0047		04	12173	12241	1242	S21	E47	4883	11	8.1	25	SN					30	0.6	E
	RAMY	04	1217	1224	1228	S20	E49	4883	11	8.2	11	SF		2	C		20		
	HTPR	04	1220	1225	1257	S22	E45	4883	11	8.0	37	SB			C	1225	40	0.6	E
0048		04	1232*	1309*	1354	N17	E75	4884	11	10.2	82	SF					34		EH
	HTPR	04	1232	1352	1432	N16	E76	4884	11	10.3	120	1N			C	1352	70		E
	RAMY	04	1308	1309	1312	N18	E75	4884	11	10.2	4	SF		3	C		11		H
	RAMY	04	1349	1352	1359	N17	E73	4884	11	10.1	10	SF		3	C		20		H
0049		04	1713	1715*	1746	N28	W68	4875	10	30.5	33	SF	M 1.3				58		F
	RAMY	04	1713	1715	1741	N28	W67	4875	10	30.6	28	SF	M 1.3	3	C		59		
	HOLL	04	1714E	1716	1751	N28	W69	4875	10	30.4	37D	SF	M 1.3	3	C		96		F
	PALE	04	1725E	1730	1746	N28	W67	4875	10	30.6	21D	SF		3	C		19		F
0050	PALE	04	1912	1914	1925	S22	E46	4883	11	8.3	13	SF	C 1.1	3	C		22		F
		04	1959		2008	No Flare Patrol													
		04	2047		2101	No Flare Patrol													
0051	HOLL	04	2103	2105	2119	N30	W72	4875	10	30.3	16	SF		3	C		31		F
		04	2132		2150	No Flare Patrol													
		04	2155		2210	No Flare Patrol													
		04	2255		2257	No Flare Patrol													
0052	LEAR	04	2323	2325	2332	N27	W62	4875	10	31.1	9	SF	M 1.5	3	C		54		F
0053	PALE	05	0014	0015	0035	S21	E40	4883	11	8.1	21	SN	C 3.0	3	C		35		EF
0054	LEAR	05	0456	0458	0512	N30	W73	4875	10	30.6	16	SF	M 3.1	3	C		97		F
0055	HTPR	05	0758	0759	0812	S24	E42	4883	11	8.6	14	SF			C	0759	30	0.4	
0056		05	0753*	0824*	0837	S20	E33	4883	11	7.8	44	SN					62	1.2	E
	HTPR	05	0753	0834	0845	S20	E35	4883	11	8.0	52	SN			C	0824	100	1.2	E
	LEAR	05	0823	0824	0829	S20	E31	4883	11	7.7	6	SF		3	C		23		
0057	HTPR	05	0859	0902	0905	N30	W73	4875	10	30.7	6	SF			C	0902	40		EIK
0058		05	0942*	0943*	1026	S22	E38	4883	11	8.3	44	SN	C 6.5				81	2.3	EIKU
	HTPR	05	0942	0944	1100	S23	E40	4883	11	8.5	78	1B			C				EIK
	KANZ	05	0942	0945	0953	S22	E37	4883	11	8.2	11	SF		2					
	HTPR	05	0942	0959	1100	S23	E40	4883	11	8.5	78	1B			C	0959	180	2.3	EIK
	LEAR	05	0943	0943	0946	S21	E36	4883	11	8.2	3	SF		3	C		25		U
	LEAR	05	0956	1000	1028	S21	E35	4883	11	8.1	32	SF	C 6.5	3	C		39		U
	KANZ	05	0957	1000	1031	S22	E37	4883	11	8.2	34	SN		2					
0059		05	15126	15147	1531	S21	E19	4882	11	7.1	19	SN					44	0.7	EK
	HTPR	05	1512	1514	1534	S20	E18	4882	11	7.0	22	SB			C				EK
	HTPR	05	1512	1521	1534	S20	E18	4882	11	7.0	22	SB			C	1521	70	0.7	EK
	RAMY	05	1518	1520	1526	S23	E20	4882	11	7.2	8	SF		3	C		19		
		05	1826		1843	No Flare Patrol													
		05	2021		2027	No Flare Patrol													
		05	2141		2205	No Flare Patrol													
0060		05	2334	2335	2339	N30	W77	4875	10	31.0	5	1F	M 2.1				80		DK
	LEAR	05	2334	2335	2339	N29	W75	4875	10	31.1	5	SF	M 2.1	3	C		25		
	VORO	05	2334	2336U	2350D	N30	W79	4875	10	30.9	16D	1F			C	2336	134		DK

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0061		06	02115	02163	0230	S22	E26	4883	11	8.1	19	SN					39	0.8	E
	LEAR	06	0211	0216	0217	S23	E25	4883	11	8.0	6	SF		3	C		12		
	YUNN	06	0216	0219	0243	S22	E26	4883	11	8.1	27	SN			C		66	0.8	E
0062	LEAR	06	0534	0534	0539	S23	E24	4883	11	8.1	5	SF		3	C		21		F
0063		06	0740*	0751*	0829	S23	E22	4883	11	8.0	49	SB	C 1.4				61	1.0	EK
	HTPR	06	0740	0751	0840	S23	E23	4883	11	8.1	60	SB			C				EK
	HTPR	06	0740	0758	0840	S23	E23	4883	11	8.1	60	SB			C	0758	60	0.6	EK
	LEAR	06	0758	0758	0809	S23	E22	4883	11	8.0	11	SF	C 1.4	3	C		11		
	CATA	06	0803	0803	0826	S24	E22	4883	11	8.0	23	SB		2	C	0803	112	1.4	
0064		06	10303	1036	1058	N15	E50	4884	11	10.2	28	SN					30	0.5	ET
	HTPR	06	1030	1036	1108	N16	E50	4884	11	10.2	38	SN			C	1036	30	0.5	ET
	KANZ	06	1033	1036	1048	N14	E49	4884	11	10.1	15	SF		2					
0065		06	1126	1133*	1154	S20	W90		10	30.7	28	SF					10		AK
	HTPR	06	1126	1133	1154	S20	W90		10	30.7	28	SF			C	1133	10		AK
	HTPR	06	1126	1146	1154	S20	W90		10	30.7	28	SF			C				AK
0066		06	1104*	1146*	1402	S23	E19	4883	11	7.9	178	SN	C 1.1				104	1.5	EK
	HTPR	06	1104	1307	1440	S23	E20	4883	11	8.0	216	1B			C	1307	220	2.2	EK
	HTPR	06	1104	1432	1440	S23	E20	4883	11	8.0	216	1B			C				EK
	CATA	06	1143E	1146	1146D	S24	E18	4883	11	7.9	3D	SN		2	P	1146	68	0.8	
	KANZ	06	1300	1304	1328	S22	E20	4883	11	8.1	28	SN		2					E
	SVTO	06	1305E	1307	1319	S22	E19	4883	11	8.0	14D	SN	C 1.1	3	C		24		
0067	HOLL	06	1750	1803	1813	S26	E05	4882	11	7.1	23	SF		3	C		17		H
0068		06	19495	20029	2206	S27	E60	4886	11	11.5	137	2N	C 4.3				193		ESU
	HOLL	06	1949	2011	2206	S27	E61	4886	11	11.6	137	2N	C 4.3	3	C		277		UE
	PALE	06	1954	2002	2100D	S27	E60	4886	11	11.5	66D	1F	C 4.3	3	C		109		US
0069	HOLL	06	2005	2011	2014	N17	E43	4884	11	10.1	9	SF		3	C		15		
		06	2022		2024	No Flare Patrol													
		06	2030		2039	No Flare Patrol													
		06	2101		2116	No Flare Patrol													
0070	HTPR	07	0940	0948	0958	S22	E13	4883	11	8.4	18	SF			C	0948	70	0.7	E
0071		07	11463	11472	1155	S26	E50	4886	11	11.4	9	SN					57	1.5	E
	SVTO	07	1146	1147	1152	S23	E50	4886	11	11.3	6	SF		3	C		17		
	HTPR	07	1146	1147	1156	S24	E51	4886	11	11.4	10	SB			C	1147	70	1.4	E
	CATA	07	1147	1147	1200	S29	E48	4886	11	11.2	13	SB		2	C	1147	84	1.6	
	KANZ	07	1149	1149	1153	S26	E50	4886	11	11.4	4	SF		2					
0072		07	12382	12391	1252	S27	E06	4882A	11	8.0	14	SN					96	1.1	E
	HTPR	07	1238	1239	1250	S26	E05	4882A	11	7.9	12	SN			C	1239	80	0.8	E
	KANZ	07	1239	1239	1253	S28	E08	4882A	11	8.1	14	SN		2					
	CATA	07	1240	1240	1241D	S28	E06	4882A	11	8.0	1D	SB		2	P	1240	112	1.4	
0073	HTPR	07	1352	1355	1403	S26	E04	4882	11	7.9	11	SF			C	1355	40	0.4	E
0074		07	14591	1503	1536	S24	E48	4886	11	11.3	37	1N	C 1.0				103		FH
	RAMY	07	1459	1503	1537	S23	E49	4886	11	11.4	38	1N	C 1.0	3	C		127		FH
	SVTO	07	1459E	1504U	1510D	S25	E48	4886	11	11.3	11D	SF	C 1.0	2	C		50		
	HOLL	07	1500	1503	1536	S23	E47	4886	11	11.2	36	1N		3	C		132		F
0075	HOLL	07	2028	2030U	2045	N31	W90	4875	10	31.7	17	1N	M 1.2	3	C		165		
0076	HOLL	07	2144	2149	2201	S30	E50	4886	11	11.8	17	SF		3	C		22		H
0077	ABST	09	0651	0657	0710	N31	W70		11	3.8	19	1F			C	0657	87		DI
		09	1322		1344	No Flare Patrol													
0078	YUNN	10	0130E	0134U	0248D	S40	W87		11	3.0	78D				P	0134			A

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Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Corr (Sq Deg)	Remarks
0079		10	0213	0219	0236	N16	W06	4884	11	9.6	23	1N					247	2.6	E
	MITK	10	0213	0219	0243	N15	W08	4884	11	9.5	30	SF			C	0219			E
	YUNN	10	0220E	0220U	0230	N16	W03	4884	11	9.9	10D	1N			P	0220	247	2.6	E
		10	0951		1000	No Flare Patrol													
		10	1218		1337	No Flare Patrol													
0080	RAMY	10	1427	1428	1435	N17	W10	4884	11	9.8	8	SF		3	C		15		H
0081		11	0528*	0530*	0540	N32	W64	4885	11	6.2	12	SF					22		
	LEAR	11	0528	0530	0533	N31	W65	4885	11	6.1	5	SF		3	C		20		
	LEAR	11	0538	0542	0546	N32	W63	4885	11	6.2	8	SF		3	C		23		
0082	LEAR	11	0624	0632	0637	N32	W64	4885	11	6.2	13	SF		3	C		20		
0083	KHAR	11	0718E	0720D	0750	S27	E90	4890	11	18.3	32D	SN			P	0720			DH
0084	KHAR	11	0825	0830	0855	N32	W66	4885	11	6.1	30	1F			P	0830	120		DH
0085	KHAR	11	0930	0933	0935	S27	E90	4890	11	18.4	5	SF			V	0933			D
0086	RAMY	11	1229	1240	1330	N23	E12		11	12.4	61	SF		3	C		70		F
0087	HOLL	11	1606	1610	1617	N31	W69	4885	11	6.2	11	SF		3	C		30		
0088		11	17201	17211	1725	S25	E87	4890	11	18.5	5	SF					20		
	PALE	11	1720	1721	1726	S26	E88	4890	11	18.5	6	SF		2	C				
	RAMY	11	1720	1722	1725	S25	E86	4890	11	18.4	5	SF		3	C		22		
	HOLL	11	1721	1721	1725	S25	E88	4890	11	18.5	4	SF		3	C		18		
0089		11	18221	1822*	1845	S25	E86	4890	11	18.4	23	SF					48		
	PALE	11	1822	1822	1838	S26	E88	4890	11	18.6	16	SF		3	C				
	RAMY	11	1822	1830	1849	S25	E84	4890	11	18.3	27	SF		3	C		42		
	HOLL	11	1823	1835	1847	S25	E86	4890	11	18.4	24	SF		3	C		55		
0090		11	1938	1939	1942	S26	E84	4890	11	18.3	4	SF					26		
	HOLL	11	1938	1939	1942	S25	E85	4890	11	18.4	4	SF		3	C		31		
	RAMY	11	1938	1939	1942	S26	E84	4890	11	18.3	4	SF		3	C		22		
0091	HOLL	11	1953	1953	2010	S25	E88	4890	11	18.6	17	SF		3	C		11		
0092		11	20177	20206	2029	S25	E84	4890	11	18.3	12	SF					12		
	HOLL	11	2017	2020	2025	S24	E84	4890	11	18.3	8	SF		3	C		11		
	PALE	11	2023	2026	2029	S26	E85	4890	11	18.4	6	SF		3	C				
	RAMY	11	2024	2026	2032	S25	E84	4890	11	18.3	8	SF		3	C		14		
0093	HOLL	11	2209	2213	2222	S25	E84	4890	11	18.4	13	SF		3	C		34		
0094	LEAR	11	2352	2353	2356	S26	E88	4890	11	18.8	4	SF		3	C		19		
0095	CATA	12	0955	0955	1020	S29	E52		11	16.5	25	SN		2	C	0955	56	1.1	
		12	1041		1054	No Flare Patrol													
0096	RAMY	12	1303	1303	1319	S22	E74	4890	11	18.2	16	SF		3	C		19		
0097		12	1504*	1536	1548	N29	W82	4885	11	6.2	44	SF					16		
	RAMY	12	1504	1536	1550	N29	W83	4885	11	6.1	46	SF		3	C		20		
	HOLL	12	1534	1536	1545	N29	W81	4885	11	6.3	11	SF		3	C		12		
0098	HOLL	12	1552	1600	1624	N30	W76	4885	11	6.7	32	SF		3	C		22		
0099	RAMY	12	1641	1641	1645	S24	E72	4890	11	18.2	4	SF	C 1.2	3	C		15		F
0100		12	1717*	17237	1742	N30	W79	4885	11	6.5	25	SN					19		
	RAMY	12	1717	1723	1740	N29	W84	4885	11	6.1	23	SF		3	C		11		
	HOLL	12	1724	1726	1742	N31	W72	4885	11	7.0	18	SF		3	C		13		
	PALE	12	1728	1730	1744	N30	W82	4885	11	6.3	16	SB		2	C		34		

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0101		12	17501	17512	1800	S25	E72	4890	11	18.3	10	SF	C 1.4				37		F
	RAMY	12	1750	1752	1801	S24	E72	4890	11	18.3	11	SF	C 1.4	3	C		47		
	PALE	12	1751	1751	1758	S26	E70	4890	11	18.2	7	SF	C 1.4	3	C		17		F
	HOLL	12	1751	1753	1800	S24	E73	4890	11	18.4	9	SF		3	C		47		
0102	HOLL	12	1855	1903	1914	S24	E72	4890	11	18.3	19	SF	C 1.9	3	C		29		
0103		12	19276	19333	1956	S25	E70	4890	11	18.2	29	SF	C 1.6				15		
	HOLL	12	1927	1933	2002	S24	E71	4890	11	18.3	35	SF	C 1.6	3	C		14		
	RAMY	12	1933E	1933U	1959	S24	E70	4890	11	18.2	26D	SF	C 1.6	3	C		12		
	PALE	12	1933	1936	1946	S26	E69	4890	11	18.2	13	SF		3	C		19		
0104	HOLL	12	2031	2033	2054	S25	E69	4890	11	18.2	23	SF	C 2.4	3	C		38		F
0105	HOLL	12	2133	2133	2141	N29	W86	4885	11	6.1	8	SF		3	C		11		
0106	LEAR	13	0032	0033	0038	S23	E66	4890	11	18.1	6	SF	C 2.1	3	C		19		
0107		13	0156	01582	0217	S27	E65	4890	11	18.1	21	SF	C 2.4				45		EF
	LEAR	13	0156	0158	0216	S26	E65	4890	11	18.1	20	SF	C 2.4	3	C		34		F
	PALE	13	0156	0200	0217	S26	E65	4890	11	18.1	21	SF	C 2.4	3	C		34		F
	YUNN	13	0202E	0202U	0217	S28	E66	4890	11	18.2	15D	1N			P	0202	66		E
0108		13	06243	06247	0642	S22	E67	4890	11	18.4	18	1F					49		D
	LEAR	13	0624	0624	0629	S23	E66	4890	11	18.3	5	SF		3	C		11		
	ABST	13	0627	0631	0655	S21	E68	4890	11	18.5	28	1F			C	0631	87		D
0109	CATA	13	0827E	0827	0910	S31	E61	4890	11	18.2	43D	1N		2	P	0827	141		
		13	1036		1054	No Flare Patrol													
0110	RAMY	13	1447	1449	1512	S25	E61	4890	11	18.3	25	SF		3	C		19		
0111		13	19034	19081	1947	S26	E59	4890	11	18.4	44	SF	C 1.7				36		F
	HOLL	13	1903	1909	1959	S25	E56	4890	11	18.1	56	SF	C 1.7	3	C		55		F
	RAMY	13	1905	1909	1944	S26	E61	4890	11	18.5	39	SF	C 1.7	3	C		30		F
	PALE	13	1907	1908	1937	S27	E60	4890	11	18.5	30	SF	C 1.7	2	C		24		F
		14	0437		0648	No Flare Patrol													
0112	HTPR	14	0926		0953D	S34	E80		11	20.8	27D	SF			C	0946	20		E
0113	HTPR	14	0935	0936	0940	S24	E45	4890	11	17.9	5	SF			C	0936	20	0.3	E
		14	1007		1029	No Flare Patrol													
		14	1926		1928	No Flare Patrol													
		14	2042		2047	No Flare Patrol													
		14	2055		2101	No Flare Patrol													
		14	2116		2242	No Flare Patrol													
		15	0201		0239	No Flare Patrol													
0114	ABST	15	0542E	0542D	0558	N16	W15		11	14.1	16D	SF			P	0542	96		BDG
		15	1011		1049	No Flare Patrol													
0115		16	00251	00314	0050	S24	E29	4890	11	18.2	25	SN	C 1.1				77	1.4	EF
	PEKG	16	0025	0035	0050	S24	E29	4890	11	18.2	25	SN			P	0035	105	1.4	E
	PALE	16	0026	0031	0050	S24	E30	4890	11	18.3	24	SN	C 1.1	3	C		67		FE
	LEAR	16	0034E		0050	S25	E29	4890	11	18.3	16D	SF	C 1.1	1	C		59		
0116		16	0524*	0527*	0545	S24	E29	4890	11	18.5	21	SF					41	1.1	D
	ABST	16	0524	0527	0558	S22	E30	4890	11	18.5	34	SN			C	0527	87	1.1	D
	LEAR	16	0526	0528	0535	S25	E28	4890	11	18.4	9	SF		3	C		19		
	LEAR	16	0537	0537	0543	S25	E28	4890	11	18.4	6	SF		3	C		16		
0117	LEAR	16	0557	0601	0602	S25	E28	4890	11	18.4	5	SF		3	C		16		
0118	HOLL	16	1901	1903	1909	S24	E19	4890	11	18.3	8	SF		3	C		34		
0119	PALE	16	2054	2059	2104	S27	E15	4890	11	18.0	10	SF		3	C		23		F

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		16	2214		2234	No Flare Patrol													
		16	2245		2259	No Flare Patrol													
0120	PALE	17	0045	0048	0057	S27	E13	4890	11	18.0	12	SF		3	C		11		F
0121		17	02082	0210	0214	S26	E15	4890	11	18.2	6	1F					122	2.5	EI
	VORO	17	0208	0210U	0215	S26	E14	4890	11	18.2	7	1F			C	0210	206	2.5	EI
	LEAR	17	0210	0210	0213	S25	E16	4890	11	18.3	3	SF		3	C		38		
0122	PALE	17	0318	0320	0323	S20	W08	4893	11	16.5	5	SB		3	C		60		
0123	CATA	17	0919E	0919	0959	S25	E05	4890	11	17.8	40D	SN		2	P	0919	56	0.7	H
		17	1542		1548	No Flare Patrol													
		17	1608		1750	No Flare Patrol													
0124		17	21354	2140	2150	S26	E04	4890	11	18.2	15	SF					18		
	HOLL	17	2135	2140	2152	S24	E05	4890	11	18.3	17	SF		3	C		26		
	PALE	17	2139	2140	2148	S27	E04	4890	11	18.2	9	SF		2	C		11		
0125		18	03153	03173	0335	S24	W05	4890	11	17.7	20	1B	M 1.0				138	2.5	DHR
	YUNN	18	0315	0317	0355	S24	W04	4890	11	17.8	40	1B			C		247	2.8	R
	LEAR	18	0316	0317	0330	S24	W05	4890	11	17.7	14	SF	M 1.0	3	C		57		
	MITK	18	0316	0318	0331	S24	W04	4890	11	17.8	15	1B			C	0318	190	2.2	DH
	PALE	18	0318	0320	0323	S24	W08	4890	11	17.5	5	SB	M 1.0	3	C		60		
0126		18	0648	0654	0714	S27	E01	4890	11	18.4	26	1N					196	4.5	E
	TACH	18	0647E		0656D	S29	E02	4890	11	18.4	9D	1B			C	0656	358	4.5	E
	LEAR	18	0648	0654	0714	S25	E00	4890	11	18.3	26	SF		3	C		33		
0127		18	1046*	10506	1135	S23	E55	4891	11	22.7	49	SN					86	1.6	E
	HTPR	18	1046	1050	1200	S23	E56	4891	11	22.8	74	SN			C	1050	60	1.1	E
	CATA	18	1053E	1053	1110	S23	E54	4891	11	22.6	17D	1N		2	P	1053	112	2.2	
	KANZ	18	1056	1056	1108D	S23	E55	4891	11	22.7	12D	SF		1					
0128	HTPR	18	1208	1209	1214	S24	W08	4890	11	17.9	6	SF			C	1209	20	0.2	
0129	HTPR	18	1327	1332	1338	S24	W09	4890	11	17.9	11	SB			C	1332	60	0.6	E
0130		18	1328*	1331*	1424	S22	E54	4891	11	22.7	56	SF					40	0.5	
	RAMY	18	1328	1331	1333	S21	E53	4891	11	22.6	5	SF		2	C		20		
	RAMY	18	1338	1439	1512D	S22	E53	4891	11	22.6	94D	SF		3	C		69		
	HTPR	18	1426	1433	1516	S23	E55	4891	11	22.8	50	SN			C	1433	30	0.5	
0131	RAMY	18	1558E	1601	1631	S21	E54	4891	11	22.8	33D	SF		3	C		46		
0132	HOLL	18	1611	1611	1705	S24	W05	4890	11	18.3	54	SF		3	C		22		FH
0133		18	1428	1712	1732	S22	E48	4891	11	22.3	184	SN					36		FZ
	HOLL	18	1428	1712	1732	S22	E45	4891	11	22.1	184	SN		3	C		57		ZF
	PALE	18	1717E	1717U	1732	S22	E50	4891	11	22.6	15D	SF		2	C		15		
0134		18	1717	1725	1732	S24	W10	4890	11	17.9	15	SF					18		
	HOLL	18	1717	1725	1726	S25	W09	4890	11	18.0	9	SF		3	C		11		
	PALE	18	1725E	1725U	1737	S23	W11	4890	11	17.9	12D	SF		2	C		26		
0135	PALE	18	1747	1800	1835	S22	E51	4891	11	22.7	48	SF		3	C		25		
		18	1823		1828	No Flare Patrol													
0136		18	19046	19151	1918	S24	W10	4890	11	18.0	14	SF					24		
	HOLL	18	1904	1916	1917	S25	W08	4890	11	18.2	13	SF		3	C		22		
	PALE	18	1910	1915	1918	S24	W11	4890	11	17.9	8	SF		3	C		26		
0137	HOLL	18	1930	2002	2041D	S20	E51	4891	11	22.7	71D	SF		3	C		31		
0138	HOLL	18	2046	2134	2230	S19	E49	4891	11	22.6	104	SF		3	C		37		

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0139		18	21238	2132	2140	S26	W10	4890	11	18.1	17	SF					30		
	HOLL	18	2123	2132	2143	S26	W08	4890	11	18.3	20	SF		3	C		38		
	PALE	18	2131	2132	2136	S25	W11	4890	11	18.0	5	SF		3	C		22		
0140	HOLL	18	2158	2159	2205	S25	W12	4890	11	18.0	7	SF		3	C		22		
0141		18	22272	22282	2233	S25	W15	4890	11	17.8	6	SF					25		H
	HOLL	18	2227	2228	2233	S26	W16	4890	11	17.7	6	SF		3	C		28		
	PALE	18	2227	2229	2232	S25	W17	4890	11	17.6	5	SF		3	C		32		H
	LEAR	18	2229	2230	2233	S25	W12	4890	11	18.0	4	SF		3	C		14		
0142		18	22333	22346	2250	S20	E48	4891	11	22.6	17	SF					14		Z
	HOLL	18	2233	2234	2251	S19	E49	4891	11	22.7	18	SF		3	C		12		Z
	LEAR	18	2236	2240	2248	S22	E46	4891	11	22.5	12	SF		3	C		15		
0143		19	01064	01114	0123	S23	W18	4890	11	17.6	17	SN	C 2.4				78	0.2	EH
	MITK	19	0106	0113	0128	S24	W17	4890	11	17.7	22	SB			C	0113			EH
	PEKG	19	0108	0112	0119	S22	W19	4890	11	17.6	11	SB	C 2.4		C	0112	168	2.0	E
	LEAR	19	0109	0111	0122	S24	W18	4890	11	17.6	13	SF	C 2.4	3	C		19		H
	PALE	19	0110	0115	0123	S23	W18	4890	11	17.7	13	SF	C 2.4	2	C		46		H
0144	LEAR	19	0216	0218	0221	S25	W16	4890	11	17.8	5	SF		3	C		22		H
0145		19	04131	04199	0441	S21	E45	4891	11	22.6	28	1N	C 2.7				142	1.2	E
	PEKG	19	0413	0419	0432	S20	E45	4891	11	22.6	19	1B	C 2.7		C	0419	252	4.0	E
	LEAR	19	0414	0423	0446	S22	E44	4891	11	22.5	32	SF	C 2.7	3	C		33		E
	MITK	19	0427E	0428	0445	S20	E45	4891	11	22.6	18D	1N			C	0428	140	2.1	E
0146	LEAR	19	0600	0604	0605	S21	E42	4891	11	22.5	5	SF		3	C		13		
0147		19	07383	07428	0838	S22	E44	4891	11	22.7	60	1N	M 1.1				244	5.3	BEFK
	YUNN	19	0738	0742	0835	S22	E44	4891	11	22.7	57	2B			C		329	5.2	E
	ABST	19	0738	0743	0834D	S21	E45	4891	11	22.8	56D	1N			P	0743	314	4.9	FK
	SVTO	19	0740	0744	0801	S21	E42	4891	11	22.5	21	SN	M 1.1	3	C		97		F
	CATA	19	0740	0750	0825D	S23	E43	4891	11	22.6	45D	2B		2	P	0750	365	5.7	
	LEAR	19	0741	0746	0859	S21	E42	4891	11	22.5	78	1N	M 1.1	3	C		114		
	KANZ	19	0833E		0859	S24	E47	4891	11	23.0	26D	SN		1					B
0148		19	09032	0905	0918	S25	W18	4890	11	18.0	15	SN	C 2.9				188	3.4	
	LEAR	19	0903	0905	0916	S25	W18	4890	11	18.0	13	SF	C 2.9	3	C		96		
	KANZ	19	0905	0905	0915	S25	W17	4890	11	18.1	10	SN		2					
	CATA	19	0905	0905	0924	S25	W18	4890	11	18.0	19	1B		2	C	0905	281	3.4	
0149		19	09112	0919*	0940	S22	E44	4891	11	22.8	29	SF					56	1.4	EK
	KANZ	19	0911	0919	0922D	S24	E45	4891	11	22.8	11D	SF		2					
	LEAR	19	0913	0932	0940	S21	E41	4891	11	22.5	27	SF		3	C		25		
	ABST	19	0922E	0927U	0940	S21	E45	4891	11	22.8	18D	SN			P	0927	87	1.4	EK
		19	1144		1149	No Flare Patrol													
		19	1202		1316	No Flare Patrol													
		19	1320		1350	No Flare Patrol													
		19	1354		1356	No Flare Patrol													
		19	1419		1601	No Flare Patrol													
0150	HOLL	19	1441	1508	1551	S20	E40	4891	11	22.7	70	SN	C 2.6	3	C		42		F
0151		19	1503*	1506*	1534	S26	W20	4890	11	18.1	31	SF	C 2.6				13		H
	HOLL	19	1503	1506	1523	S25	W20	4890	11	18.1	20	SF	C 2.6	3	C		11		
	HOLL	19	1528	1528	1534	S26	W21	4890	11	18.0	6	SF		3	C		10		
	HOLL	19	1538	1540	1546	S26	W20	4890	11	18.1	8	SF		3	C		17		H
0152		19	1612	16151	1639	S18	E40	4891	11	22.7	27	SN	C 2.1				66		F
	RAMY	19	1602E	1615	1645	S17	E40	4891	11	22.7	43D	SN	C 2.1	2	C		69		
	HOLL	19	1612	1616	1633	S19	E40	4891	11	22.7	21	SN	C 2.1	3	C		64		F
0153		19	16185	1624	1628	S26	W20	4890	11	18.1	10	SF					17		
	HOLL	19	1618	1624	1630	S26	W21	4890	11	18.0	12	SF		3	C		22		
	RAMY	19	1623	1624	1627	S27	W20	4890	11	18.1	4	SF		2	C		12		
0154	HOLL	19	1636	1642	1653	S28	W21	4890	11	18.0	17	SF		3	C		23		F

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0155	PALE	19	1826	1828	1857	S22	E38	4891	11	22.7	31	SF		3	C		16		H
0156	PALE	19	1938	1939	1953	S25	W22	4890	11	18.1	15	SF		3	C		24		
0157	PALE	19	1938	1940	1957	S21	E37	4891	11	22.6	19	SF		3	C		12		
0158		19	20361	20391	2053	S20	E39	4891	11	22.8	17	SF					23		F
	PALE	19	2036	2039	2055	S21	E35	4891	11	22.5	19	SF		3	C		32		
	RAMY	19	2037	2039	2100	S20	E43	4891	11	23.1	23	SF		2	C		21		
	HOLL	19	2037	2040	2044	S20	E38	4891	11	22.8	7	SF		4	C		15		F
0159	PALE	19	2120	2120	2126	S21	E36	4891	11	22.6	6	SF		3	C		18		
0160	HOLL	19	2135	2140	2203	S18	W37	4893	11	17.1	28	SF		3	C		23		U
0161	HOLL	19	2223	2224	2233	S20	E37	4891	11	22.8	10	SF		3	C		20		
0162	HOLL	19	2254	2256	2301	S22	E35	4891	11	22.6	7	SF		3	C		20		
0163	LEAR	20	0026	0027	0030	S25	W27	4890	11	17.9	4	SF		3	C		11		
0164		20	00525	00535	0100	S25	W26	4890	11	18.0	8	SF	C 1.1				26		
	LEAR	20	0052	0053	0100	S25	W27	4890	11	17.9	8	SF	C 1.1	3	C		21		
	PALE	20	0057	0058	0101	S25	W24	4890	11	18.2	4	SF	C 1.1	3	C		30		
0165		20	0146*	01573	0210	S25	W28	4890	11	17.9	24	SF					117	3.2	FT
	PALE	20	0146	0200	0210	S25	W29	4890	11	17.8	24	SF		3	C		80		F
	YUNN	20	0151	0157	0212	S26	W27	4890	11	18.0	21	1N			C		247	3.2	FT
	LEAR	20	0158	0159	0207	S25	W27	4890	11	18.0	9	SF		3	C		23		
0166		20	01599	02091	0213	S20	E34	4891	11	22.7	14	SF					26		D
	LEAR	20	0159	0210	0211	S21	E37	4891	11	22.9	12	SF		3	C		26		
	MITK	20	0208	0209	0215	S19	E32	4891	11	22.5	7	SF			C	0209			D
0167	YUNN	20	0252	0254	0256	S25	W29	4890	11	17.9	4	SN			C		49	0.6	T
0168	YUNN	20	0252	0255	0303	S22	E32	4891	11	22.6	11	SN			C		49	0.7	ET
0169	YUNN	20	0301	0304	0329	S25	W30	4890	11	17.8	28	SN			P		66	0.9	ET
0170	YUNN	20	0342	0350	0416	S24	W30	4890	11	17.8	34	SN			P		33	0.4	ET
0171	LEAR	20	0313	0314	0317	S21	E36	4891	11	22.9	4	SF		3	C		21		E
0172		20	0410*	0417*	0518	S22	E35	4891	11	22.9	68	1N	M 1.3				237	3.7	EFTU
	YUNN	20	0410	0420	0505	S23	E36	4891	11	22.9	55	2B			C		378	5.3	UT
	MITK	20	0412	0417	0451	S23	E36	4891	11	22.9	39	1N			C	0417	200	2.8	E
	LEAR	20	0412	0418	0535	S21	E35	4891	11	22.8	83	1N	M 1.3	3	C		116		
	PEKG	20	0425	0430	0455	S22	E35	4891	11	22.9	30	1B			C	0430	357	4.9	U
	YUNN	20	0448	0452	0527	S22	E34	4891	11	22.8	39	SN			C		132	1.8	FT
	MITK	20	0503	0503	0553	S23	E34	4891	11	22.8	50	SF			C	0503			E
0173		20	0605*	0616*	0642	S22	E33	4891	11	22.8	37	SF					20		E
	MITK	20	0605	0616	0640	S22	E32	4891	11	22.7	35	SF			C	0616			E
	LEAR	20	0628	0638	0643	S21	E34	4891	11	22.9	15	SF		3	C		20		
0174	LEAR	20	0744	0747	0805	S21	E34	4891	11	22.9	21	SF		3	C		15		
0175		20	0808	08104	0830	S24	W32	4890	11	17.9	22	SN					51	1.1	ET
	LEAR	20	0808	0810	0832	S25	W31	4890	11	17.9	24	SF		3	C		20		
	YUNN	20	0808	0814	0827	S24	W32	4890	11	17.9	19	SN			C		82	1.1	ET
0176	HTPR	20	0924	0925	1130	S24	E30	4891	11	22.7	126	SF			C	0925	30	0.3	E
0177	HTPR	20	1131	1157	1207	S26	W36	4890	11	17.7	36	SF			C	1157	20	0.2	
0178	HTPR	20	1213	1230	1242	S25	W35	4890	11	17.8	29	SF			C	1230	30	0.4	E
0179	HTPR	20	1250	1259	1309	S25	W30	4890	11	18.2	19	SF			C	1259	40	0.4	E

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0180	HTPR	20	1314	1318	1342	S23	E26	4891	11 22.5	28	SF			C	1318	40	0.4	E
		20	1501		1603	No Flare Patrol												
		20	1652		1713	No Flare Patrol												
0181	PALE	20	1741	1746	1756	S22	E28	4891	11 22.9	15	SF	C 1.5	2	C		44		
0182		20	19413	19441	1957	S22	E27	4891	11 22.9	16	SF	C 1.3				24		FM
	HOLL	20	1941	1945	1957	S22	E26	4891	11 22.8	16	SF	C 1.3	3	C		25		
	RAMY	20	1941	1945	2000	S23	E29	4891	11 23.0	19	SF	C 1.3	3	C		25		FM
	PALE	20	1944	1944	1954	S22	E25	4891	11 22.7	10	SF	C 1.3	3	C		22		
0183	HOLL	20	2308	2316	2343D	S26	W36	4890	11 18.2	35D	SF		3	C		60		
0184	LEAR	20	2314	2314	2320	S21	E25	4891	11 22.9	6	SF		3	C		11		
0185		20	23311	2337*	2518	S22	E25	4891	11 22.9	107	1N	M 1.3				159	2.6	EIJKTUZ
	LEAR	20	2331	2337	2511	S21	E25	4891	11 22.9	100	1N	M 1.3	3	C		127		
	HOLL	20	2331	2338	2343D	S22	E26	4891	11 23.0	12D	1N	M 1.3	3	C		96		
	VORO	20	2332	2347U	2443D	S23	E26	4891	11 23.0	71D	1F			C	2347	224	2.8	EIJKTUZ
	MITK	20	2335E	2350	2524	S23	E24	4891	11 22.8	109D	1B			C	2350	190	2.4	E
0186	LEAR	21	0233	0235	0240	S25	W41	4890	11 17.9	7	SF		3	C		39		
0187	LEAR	21	0405	0417	0427	S21	E22	4891	11 22.8	22	SF		3	C		12		
0188	YUNN	21	0619	0628	0647	S41	E88		11 28.4	28				C				AG
0189	LEAR	21	0725	0725	0733	S21	E21	4891	11 22.9	8	SF		3	C		11		
0190	HTPR	21	0907	0910	0925	N27	E78	4895	11 27.4	18	SN			C	0910	30		
0191	CATA	21	0950E	0950	0959D	N26	E90	4895	11 28.4	9D	SN		2	P	0950	28		
0192		21	12051	1205*	1224	N28	E78	4895	11 27.6	19	SN					22		
	RAMY	21	1205	1205	1213	N28	E79	4895	11 27.7	8	SF		3	C		14		
	HTPR	21	1206	1217	1235	N27	E77	4895	11 27.5	29	SN			C	1217	30		
0193		21	1357*	1411	1429	S22	E64	4897	11 26.5	32	SN					51	1.3	E
	HTPR	21	1357	1411	1433	S23	E64	4897	11 26.5	36	SN			C	1411	60	1.3	E
	RAMY	21	1410	1411	1425	S22	E63	4897	11 26.4	15	SF		3	C		42		
0194	HOLL	21	1500	1504	1524	S20	E17	4891	11 22.9	24	SF		3	C		16		
0195		21	15322	1535*	1618	S22	E16	4891	11 22.9	46	SF					21		
	RAMY	21	1532	1549	1637	S21	E16	4891	11 22.9	65	SF		3	C		27		
	HOLL	21	1534	1535	1558	S23	E17	4891	11 22.9	24	SF		3	C		15		
0196		21	17551	1805	1902	S22	E16	4891	11 23.0	67	2B	M 3.5				248		FU
	HOLL	21	1755	1805	1901	S23	E16	4891	11 23.0	66	2B	M 3.5	3	C		273		UF
	RAMY	21	1756	1805U	1903	S21	E15	4891	11 22.9	67	1B	M 3.5	3	C		222		F
		21	2117		2120	No Flare Patrol												
0197	HOLL	21	2150	2151	2158	S20	E11	4891	11 22.7	8	SF		3	C		18		
0198		22	0212*	02392	0306	S21	E08	4891	11 22.7	54	SN	C 2.2				141	2.6	EFIJT
	LEAR	22	0212	0239	0323	S21	E08	4891	11 22.7	71	SF	C 2.2	3	C		61		F
	VORO	22	0224	0242U	0300D	S20	E08	4891	11 22.7	36D	1F			C	0242	314	3.5	IJT
	MITK	22	0231	0241	0314	S20	E07	4891	11 22.6	43	SB			C	0241			E
	PALE	22	0242E	0242U	0250	S22	E13	4891	11 23.1	8D	SF	C 2.2	2	C		24		F
	YUNN	22	0252E	0253U	0256	S20	E05	4891	11 22.5	4D	SN			P	0253	164	1.8	F
0199		22	0450*	0513*	0605	S22	E05	4891	11 22.6	75	SN	C 2.0				64	0.7	EF
	MITK	22	0450	0513	0547	S23	E01	4891	11 22.3	57	SN			C	0513			E
	YUNN	22	0513E	0535U	0554D	S21	E06	4891	11 22.7	41D	SN			P	0535	66	0.7	E
	MITK	22	0516	0528	0628	S22	E07	4891	11 22.7	72	SN			C	0528			E
	LEAR	22	0521	0543	0601	S21	E07	4891	11 22.7	40	SF	C 2.0	3	C		61		F

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0200		22	07134	07183	0801	S21	E06	4891	11	22.8	48	SF	C 1.2				44	0.4	EF
	YUNN	22	0713	0718	0808	S20	E05	4891	11	22.7	55	SN			C		33	0.4	E
	LEAR	22	0715	0718	0759	S21	E05	4891	11	22.7	44	SF	C 1.2	3	C		56		F
	KANZ	22	0717	0721	0755	S22	E07	4891	11	22.8	38	SF		1					
0201	RAMY	22	1211	1233	1250	S20	E01	4891	11	22.6	39	SF		3	C		21		
0202	RAMY	22	1359	1402	1431	S22	E02	4891	11	22.7	32	SF	C 1.1	3	C		23		F
0203	PALE	22	2200	2201	2209	S21	W07	4891	11	22.4	9	SF		3	C		19		F
0204		22	23103	23134	2320	S22	W03	4891	11	22.7	10	SF					14		F
	PALE	22	2310	2313	2322	S22	W05	4891	11	22.6	12	SF		2	C		16		F
	HOLL	22	2313	2314	2321	S21	W03	4891	11	22.7	8	SF		3	C		14		
	LEAR	22	2313	2317	2318	S23	W02	4891	11	22.8	5	SF		3	C		11		
0205	YUNN	23	0429E	0433	0444	S22	W03	4891	11	22.9	15D	SN			P		164	1.8	F
0206		23	05069	0506*	0532	S22	W03	4891	11	23.0	26	1N	C 1.3				157	3.3	EF
	LEAR	23	0506	0506	0531	S23	W03	4891	11	23.0	25	SF	C 1.3	3	C		20		F
	PEKG	23	0515	0518	0534	S22	W03	4891	11	23.0	19	1N	C 1.3		C	0518	294	3.3	E
0207	ABST	23	0734E	0734U	0749D	S23	W10	4891	11	22.5	15D	SF			P	0734	61	0.7	D
0208	KANZ	23	0849		0850D	S23	W13	4891	11	22.4	1D	SN			P	0850	21	0.2	D
		23	1055		1058	No Flare Patrol													
		23	1100		1105	No Flare Patrol													
		23	1121		1327	No Flare Patrol													
0209	HOLL	23	1433E	1433U	1446D	S34	W23	4896	11	21.8	13D	SF		3	C		28		
		23	1534		1544	No Flare Patrol													
		23	1612		1616	No Flare Patrol													
		23	1645		1659	No Flare Patrol													
0210	HOLL	23	1921	1924	1928	S35	W26	4896	11	21.7	7	SF		3	C		12		
0211	PALE	23	1949	1952	2014	S21	E31		11	26.2	25	SF		4	C		17		FH
0212		23	2024	2027	2046	N33	E54	4895	11	28.1	22	SF					14		F
	PALE	23	2024	2027	2046	N33	E54	4895	11	28.1	22	SF		3	C		12		F
	HOLL	23	2029E	2029U	2035D	N33	E54	4895	11	28.1	6D	SF		2	C		16		F
0213		24	0008*	0018*	0035	S34	W32	4896	11	21.4	27	SF					21		F
	LEAR	24	0008	0018	0032	S33	W34	4896	11	21.3	24	SF		3	C		20		F
	PALE	24	0012	0020	0036	S33	W32	4896	11	21.5	24	SF		3	C		19		F
	LEAR	24	0033	0035	0038	S35	W29	4896	11	21.7	5	SF		3	C		23		
0214	PALE	24	0304	0307U	0314	S21	E28		11	26.3	10	SF		2	C		16		F
0215	LEAR	24	0323	0324	0327	N31	E46	4895	11	27.8	4	SF		3	C		13		
0216	YUNN	24	0429E	0433	0444	S35	W35	4896	11	21.4	15D	SB			P		115	1.8	F
0217		24	04402	04446	0520	S23	E28	4897	11	26.3	40	1B					197	2.6	EG
	YUNN	24	0440	0444	0516	S23	E29	4897	11	26.4	36	1B			P		197	2.6	EG
	MITK	24	0442	0450	0524	S23	E28	4897	11	26.3	42	SB			C	0450			E
0218	YUNN	24	0551	0600	0611	S27	W79	4890	11	18.1	20	1N			P		16		A
0219	YUNN	24	0554	0600	0611	N29	E44	4895	11	27.7	17	SB			C		49	0.8	E
0220	YUNN	24	0634	0637	0701	S23	E28	4897	11	26.4	27	SN			P		82	1.1	EG
0221	KANZ	24	0959	1003	1009	S22	E27	4897	11	26.5	10	SN			P	1003	52	0.6	EH
		24	1331		1820	No Flare Patrol													
0222	HOLL	24	1441	1456	1511	S22	W23	4891	11	22.8	30	SF		3	C		55		F

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0223	HOLL	24	1447	1447	1455	S35	W39	4896	11	21.5	8	SF		2	C		17		
0224	HOLL	24	1455	1455	1459	N32	E41	4895	11	27.9	4	SF		2	C		15		
0225	HOLL	24	1914	1929	2012	N28	E41	4895	11	28.0	58	1F	C 1.2	3	C		116		FU
0226	HOLL	24	1940	1953	2001	S36	W39	4896	11	21.7	21	SF		3	C		14		
0227	HOLL	24	2056	2058	2059	S22	W27	4891	11	22.8	3	SF		3	C		11		
0228	HOLL	24	2215	2215	2224	S36	W40	4896	11	21.7	9	SF		3	C		12		
0229		24	22463	2249	2308	N30	E38	4895	11	27.9	22	SF					19		
	HOLL	24	2246	2249	2311	N30	E35	4895	11	27.7	25	SF		3	C		24		
	LEAR	24	2249	2249	2306	N30	E40	4895	11	28.1	17	SF		3	C		14		
0230	YUNN	25	0138E	0141U	0154	S22	E17	4897	11	26.4	16D	SB			P	0141	115	1.4	EG
0231		25	09436	0951	1002	S22	E15	4897	11	26.5	19	SF					30	0.4	E
	HTPR	25	0943	0951	1006	S23	E17	4897	11	26.7	23	SF			C	0951	40	0.4	E
	LEAR	25	0949	0951	0957	S22	E13	4897	11	26.4	8	SF		2	C		20		
		25	1236		1325	No Flare Patrol													
		25	1500		1506	No Flare Patrol													
		25	1510		1517	No Flare Patrol													
0232	HOLL	25	1713	1717	1726	S34	W61	4896	11	20.8	13	SF		3	C		55		
0233	YUNN	26	0138	0154		N29	E20	4895	11	27.6		SN			C		164	2.0	FK
0234	YUNN	26	0236E	0236		N29	E20	4895	11	27.7	D	1N			C		230	2.8	
0235		26	0308*	0311*	0328	N31	E23	4895	11	27.9	20	SN					126	4.3	
	LEAR	26	0308	0311	0312	N33	E25	4895	11	28.1	4	SF		3	C		12		
	YUNN	26	0314E	0314	0423D	N29	E20	4895	11	27.7	69D	1B			P		345	4.3	
	LEAR	26	0332	0332	0345	N31	E23	4895	11	28.0	13	SF		3	C		21		
0236		26	03101	03241	0351	S21	W47	4891	11	22.5	41	1N	C 3.3				181	5.0	F
	YUNN	26	0310	0324	0356	S21	W46	4891	11	22.6	46	1B			C		312	5.0	F
	LEAR	26	0311	0325	0346	S21	W48	4891	11	22.4	35	SF	C 3.3	3	C		50		
0237	YUNN	26	0422	0423	0423D	S22	W49	4891	11	22.4	1D	SN			P		49	0.8	F
0238	ABST	26	0607	0620	0634	S34	W72	4896	11	20.5	27	1F			C	0620	87		D
0239		26	08334	08393	0904	N29	E19	4895	11	27.8	31	SF					87	1.0	D
	ABST	26	0833	0839	0905	N29	E19	4895	11	27.8	32	SF			C	0839	87	1.0	D
	ABST	26	0837	0842	0903	N29	E19	4895	11	27.8	26	SF			C	0842	87	1.0	D
0240		26	08525	08571	0915	S22	W48	4891	11	22.7	23	1N					140	2.4	EF
	ABST	26	0852	0857	0926	S21	W49	4891	11	22.6	34	1F			C	0857	218	3.7	F
	KANZ	26	0857	0858	0904	S22	W48	4891	11	22.7	7	SN			P	0858	62	1.0	E
0241	KANZ	26	1110	1121	1126	S33	W67	4896	11	21.1	16	SN			P			1.4	D
0242		26	1128	1143*	1215	S22	W46	4891	11	22.9	47	1B					154	2.5	EF
	KANZ	26	1128	1143	1215	S22	W46	4891	11	22.9	47	SN			P	1143	83	1.3	EF
	CATA	26	1200E	1200	1212D	S21	W47	4891	11	22.9	12D	1B		2	P	1200	225	3.7	
		26	1326		1359	No Flare Patrol													
0243	HOLL	26	1555	1556	1609	S24	W44	4891	11	23.3	14	SF		3	C		20		
0244	LEAR	26	2243	2243	2251	S34	W70	4896	11	21.4	8	SF		3	C		17		
0245	PALE	26	2345	2350	2403	S33	W75	4896	11	21.0	18	SF		3	C		19		
0246		27	13229	13311	1348	S26	W62	4891	11	22.7	26	1N					68	2.4	EF
	HTPR	27	1322	1331	1400	S24	W62	4891	11	22.8	38	1B			C	1331	120	2.4	E
	SVTO	27	1331	1332	1337	S28	W61	4891	11	22.8	6	SF		3	C		17		F

H - ALPHA S O L A R F L A R E S

NOVEMBER 1987

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	See	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
		27	1528		1554	No Flare Patrol													
		27	1611		1617	No Flare Patrol													
0247	YUNN	28	0715	0719	0728	S21	W81	4891	11	22.1	13	SN			C		16		D
0248	YUNN	28	0809	0812	0812D	S34	W89	4896	11	21.2	3D				P				A
0249	HTPR	28	0951	0958	1012	S20	W80	4891	11	22.3	21	SF			C	0958	20		
0250	HOLL	28	1750	1751	1801	S21	W78	4891	11	22.8	11	SF		3	C		14		FH
		29	1051		1103	No Flare Patrol													
		29	1127		1135	No Flare Patrol													
		29	1304		1400	No Flare Patrol													
0251		29	16029	16131	1628	N30	W24		11	27.8	26	SF	C 1.5				28		FU
	RAMY	29	1602	1614	1632D	N30	W23		11	27.8	30D	SF	C 1.5	3	C		26		UF
	HOLL	29	1611	1613	1628	N30	W24		11	27.8	17	SF	C 1.5	3	C		29		UF
		29	1648		1652	No Flare Patrol													
		29	1658		1708	No Flare Patrol													
		29	1737		1743	No Flare Patrol													
		29	1817		1831	No Flare Patrol													
0252	HOLL	29	1940	1942	1952	N28	W26		11	27.8	12	SF		3	C		35		F
0253	ABST	30	0752	0757	0901D	N27	W38		11	27.4	69D	SF			P	0757	96	1.4	F
0254		30	0757	0801U	0954	N25	W02	4900	11	30.2	117	SN					109	1.2	EFK
	ABST	30	0757	0801U	0801D	N27	W02	4900	11	30.2	4D	SF			P	0801	87	1.0	F
	ABST	30	0821E	0825U	0954	N23	W02	4900	11	30.2	93D	SN			P	0825	131	1.5	EK
		30	1014		1050	No Flare Patrol													
		30	1056		1101	No Flare Patrol													
		30	1146		1212	No Flare Patrol													
		30	1226		1243	No Flare Patrol													
		30	1317		1344	No Flare Patrol													
		30	1543		1635	No Flare Patrol													
		30	1805		1830	No Flare Patrol													

"Remarks"

A = Eruptive prominence whose base is less than 90 degrees from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by high-speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the H and K lines of Ca II.
P = Flare shows Helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.