Date:	24 Feb 96	Time UT to Local Subtract	OPEN SKIES OVERFLIGHT DATA COLLECTION LONG	Latitude:	N345003
Site:			LUMINANCE = FOOT LAMBERTS ILLUMINANCE = FOOT CANDLES RADIANCE = MICROWATTS/STERADIAN/CM²	Longitude:	W1174535
Operator:		8 Hours	IRRADIANCE = MICROWATTS/CM² PAGE 1 OF 4	Elevation:	2550' MSL

TIME (UT)	STANDARD Read	STANDARD Mult	STANDARD Value	BAR Read	BAR Mult	BAR Value	SPACE Read	SPACE Mult	SPACE Value	BACKGROUND Read	BACKGROUND Mult	BACKGROUND Value	RATIO	BAR % R	SPACE % R	BKGD % R	ILLUMIANCE ~~Foot Candles~~	IRRADIANCE	
	(Photometer Measurement Units - ~~Luminance (Foot Lamberts)~~)																		
1805	6.35	2		3.47	2		5.17	1					6.8	55	8		635	648	H
1822	6.80	2		3.69	2		5.51	1					6.75	54	8		680	694	H
1830	7.00	2		3.78	2		5.62	1					6.75	54	8		700	714	H
1837	7.10	2		3.83	2		5.90	1					6.9	52	7.8		710	724	H
1845	7.22	2		3.91	2		5.86	1					6.6	54	8.1		722	737	H
RADIANCE	16.22	2		8.67	2		14.00	1					6.0	53	8.6		1622	5197	H
1852	7.36	2		4.00	2		6.17	1					6.5	54	8.3		736	751	H
RADIANCE	16.51	2		8.75	2		12.97	1					6.8	53	7.8		1651	5290	H
1900	7.44	2		4.05	2		6.25	1					6.4	54	8.4		744	759	H
RAD	16.80	2		8.88	2		13.30	1					6.7	53	7.9		1680	5396	H
1906	7.51	2		4.10	2		6.20	1					6.7	55	8.2		751	766	H
RAD	16.95	2		8.98	2		13.60	1					6.6	53	8		1695	5431	H
1914	7.60	2		4.13	2		6.28	1					6.6	54	8.2		760	776	H
RAD	17.14	2		9.09	2		13.72	1					6.6	53	8		1714	5492	H
1921	7.68	2		4.16	2		6.38	1					6.5	54	8.3		768	784	H
RAD	17.27	2		9.27	2		14.25	1					6.5	54	8.3		1727	5533	
1928	7.70	2		4.21	2		6.40	1					6.6	55	8.3		770	786	
RAD	17.40	2		9.21	2		13.93	1					6.6	53	8		1740	5575	
1935	7.84	2		4.25	2		6.48	1					6.6	54	8.2		784	800	
RAD	17.48	2		9.35	2		14.00	1					6.6	53	8		1748	5601	
1942	7.86	2		4.29	2		6.50	1					6.6	55	8.3		786	802	
RAD	17.59	2		9.38	2		14.43	1					6.5	53	8.2		1759	5636	
1948	7.85	2		4.30	2		6.40	1					6.7	55	8.2		785	801	
RAD	17.60	2		9.30	2		14.14	1					6.6	53	8		1760	5639	

* [illegible]

I DUST 2015

Date:	24 FEB 96	Time UT to Local Subtract	OPEN SKIES OVERFLIGHT DATA COLLECTION LONG	Latitude:	
Site:				Longitude:	
Operator:		8 Hours	PAGE 2 OF 4	Elevation:	

TIME (UT)	STANDARD Read	STANDARD Mult	STANDARD Value	BAR Read	BAR Mult	BAR Value	SPACE Read	SPACE Mult	SPACE Value	BACKGROUND Read	BACKGROUND Mult	BACKGROUND Value	RATIO	BAR % R	SPACE % R	BKGD % R	ILLUMIANCE IRRADIANCE ~~Foot Candles~~		
	(Photometer Measurement Units - Luminance (~~Foot Lamberts~~)																		
2003	7.83	2		4.33	2		6.67	1					6.5	55	8.5		783	799	H
RAD	17.54	2		9.40	2		15.01	1					6.3	54	8.6		1754	5620	H
*2009	7.83	2		4.29	2		6.55	1					6.5	55	8.4		783	799	Hi
RAD	17.71	2		9.30	2		14.03	1					6.6	52.5	7.9		1771	5674	Hi
2015	7.76	2		4.33	2		6.53	1					6.6	56	8.4		776	792	Hi
RAD	17.50	2		9.46	2		14.05	1					6.75	54	8		1750	5607	
2021	7.79	2		4.36	2		6.41	1					6.8	56	8.2		779	795	
RAD	17.44	2		9.44	2		13.90	1					6.8	54	7.9		1744	5588	
2027	7.75	2		4.35	2		6.36	1					6.8	56	8.2		775	791	
RAD	17.29	2		9.40	2		13.78	1					6.8	54	7.9		1729	5540	
2034	7.71	2		4.32	2		6.38	1					6.8	56	8.2		771	787	
RAD	17.22	2		9.29	2		13.76	1					6.8	54	7.9		1722	5517	
2042	7.65	2		4.29	2		6.36	1					6.7	56	8.3		765	781	
RAD	17.06	2		9.22	2		13.76	1					6.75	54	8		1706	5466	
2048	7.60	2		4.29	2		6.39	1					6.6	56	8.4		760	776	
RAD	16.95	2		9.21	2		13.90	1					6.6	54	8.2		1695	5431	
2054	7.58	2		4.24	2		6.24	1					6.8	56	8.2		758	773	
RAD	16.84	2		8.60	2		13.64	1					6.4	51	8.0		1684	5396	
2107	7.34	2		4.10	2		6.06	1					6.8	56	8.2		734	749	
RAD	16.40	2		8.89	2		13.12	1					6.75	54	8		1640	5255	
2113	7.31	2		4.06	2		6.06	1					6.6	55	8.3		731	746	
RAD	16.25	2		8.68	2		13.15	1					6.5	53	8.1		1625	5207	
2120	7.23	2		4.00	2		6.01	1					6.6	55	8.3		723	738	
RAD	16.20	2		8.66	2		12.98	1					6.6	53	8		1620	5191	

BP
*10 ×2

Date:	24 FEB 96	Time UT to Local Subtract	OPEN SKIES OVERFLIGHT DATA COLLECTION LONG	Latitude:	
Site:				Longitude:	
Operator:		8 Hours	PAGE 3 OF 4	Elevation:	

TIME (UT)	STANDARD Read	STANDARD Mult	STANDARD Value	BAR Read	BAR Mult	BAR Value	SPACE Read	SPACE Mult	SPACE Value	BACKGROUND Read	BACKGROUND Mult	BACKGROUND Value	RATIO	BAR % R	SPACE % R	BKGD % R	ILLUMIANCE IRRADIANCE	
	(Photometer Measurement Units - Luminance (~~Foot Lamberts~~)																~~Foot Candles~~	
2127	7.10	2		3.94	2		5.94	1		2.80	2		6.5	55	8.4	40	710	724
RAD	15.90	2		7.86	2		12.88	1		6.38	2		6.1	49	8.1	40	1590	5094
*2141	6.82	2		3.81	2		5.65	1		2.71	2		6.7	56	8.3	39.7	682	696
RAD	15.31	2		8.33	2		12.10	1		6.74	2		6.8	54	7.9	44	1531	4905
2147	6.68	2		3.25	2		5.61	1		2.67	2		6.6	56	8.4	40	668	682
RAD	14.97	2		8.15	2		11.95	1		6.59	2		6.75	54	8	44	1497	4797
2202	6.24	2		3.56	2		5.32	1		2.56	2		6.7	57	8.5	41	624	637
RAD	14.20	2		7.96	2		11.82	1		6.40	2		6.7	56	8.3	45	1420	4550
2209	6.05	2		3.46	2		5.17	1		2.50	2		6.7	57	8.5	41	605	617
RAD	13.69	2		7.60	2		11.02	1		6.25	2		6.8	55	8.1	46	1369	4386
2215	5.88	2		3.35	2		5.06	1		2.45	2		6.6	57	8.6	42	588	600
RAD	13.20	2		7.37	2		10.77	1		5.95	2		6.8	56	8.2	45	1320	4229
2223	5.70	2		3.27	2		4.84	1		2.40	2		6.7	57	8.5	42	570	582
RAD	12.80	2		7.10	2		10.36	1		5.35	2		6.8	55	8.1	42	1280	4101
2230	5.60	2		3.20	2		4.82	1		12.50	1		6.6	57	8.6	22.3	560	571
RAD	12.31	2		6.86	2		10.08	1		5.17	2		6.8	56	8.2	25.7	1231	3944
2238	5.33	2		3.16	2		4.59	1		11.33	1		6.8	59	8.6	21.2	533	544
RAD	11.79	2		6.66	2		9.68	1		2.75	2		6.5	56	8.6	20.7	1179	3778
2247	5.11	2		3.00	2		4.61	1		6.90	1		6.5	59	9	13.5	511	521
RAD	11.30	2		6.43	2		9.75	1		18.00	1		6.6	57	8.6	15.9	1130	3621
2300	4.72	2		2.87	2		4.11	1		2.09	2		6.8	59	8.7	44	472	482
RAD	10.57	2		6.02	2		8.95	1		4.53	1		6.7	57	8.5	42.8	1057	3387

Date:	24 FEB 96	Time UT to Local Subtract	OPEN SKIES OVERFLIGHT DATA COLLECTION LONG	Latitude:	
Site:				Longitude:	
Operator:		8 Hours	PAGE 4 OF 4	Elevation:	

TIME (UT)	STANDARD Read	STANDARD Mult	STANDARD Value	BAR Read	BAR Mult	BAR Value	SPACE Read	SPACE Mult	SPACE Value	BACKGROUND Read	BACKGROUND Mult	BACKGROUND Value	RATIO	BAR % R	SPACE % R	BKGD % R	ILLUMINANCE IRRADIANCE ~~Foot Candles~~	
	(Photometer Measurement Units - Luminance ~~(Foot Lamberts)~~)																	
2305	4.30	2		2.68	2		4.20	1		16.80	1		6.4	62	9.7	39	430	439
RAD	9.59	2		5.70	2		8.75	1		3.95	2		6.5	59	9.1	41	959	3073
2312	4.1	2		2.53	2		3.92	1		16.71	1		6.4	61	9.5	41	410	418
RAD	9.07	2		5.48	2		8.24	1		3.82	2		6.6	60	9.1	42	907	2906
2319	3.95	2		2.45	2		3.76	1		16.65	1		6.5	62	9.5	42	395	403
RAD	8.61	2		5.15	2		7.89	1		3.61	2		6.6	60	9.1	42	861	2759
2325	3.69	2		2.33	2		3.72	1		16.54	1		6.2	63	10.1	45	369	377
RAD	8.05	2		4.90	2		7.84	1		3.42	2		6.3	61	9.7	43	805	2579
2332	3.48	2		2.20	2		3.59	1		16.40	1		6.1	63	10.3	47	348	352
RAD	7.75	2		4.70	2		7.57	1		3.25	2		6.3	61	9.7	42	775	2483
2340	3.30	2		2.07	2		3.29	1		16.25	1		6.4	63	9.9	49	330	337
RAD	6.99	2		4.43	2		6.97	1		2.99	2		6.4	63	9.9	43	699	2240

HAZE PERSISTED THROUGHOUT THE MISSION WITH DUST BLOWING STARTING AT 2015.

LUMINANCE AND RADIANCE MEASUREMENTS WERE TAKEN FROM THE FOLLOWING AREAS AND TIMES:

BAR GROUP 3 1805 - 2003

BRIGHTNESS PANELS 2009 - 2127

BAR GROUP 10 2141 - 2147

BAR GROUP 6 2202 - 2340

MEASUREMENT OF THE SURROUNDING BACKGROUND DID NOT OCCUR UNTIL 2141 DUE TO PROBLEMS ENCOUNTERED WITH ELECTRICAL EXTENSION CORDS AND WHERE MEASUREMENTS WERE BEING TAKEN. THIS PROBLEM SHOULD BE ALLEVIATED FOR THE NEXT MISSION

TARGET MEASUREMENTS REMAINED FAIRLY CONSTANT THROUGHOUT THE DAY WITH ONLY MINOR FLUCTUATIONS.

RAD IS THE CORRESPONDING RADIANCE MEASUREMENT

IRRADIANCE WAS DETERMINED BY:

$$\frac{\pi * \text{RADIANCE}}{R} \qquad R = .98$$