

TABLE 1 – EFLIGHT 2021-SUNRISE (MEI 070214UTC/39,000 ft AMSL) TOTALITY RUN

UTC Intercept: 07:02:14.0 | Totality Duration: 1m 44.5s (+0m 17.5s w.r.t. stationary observer)
 Flight Altitude: 39000ft | Horizon Depression: -3.5° (w.r.t. astronomical horizon)
 True Heading: 219.22° | Cnt hh:mm:ss.s Alt° Azm° P° Cnt hh:mm:ss.s Alt° Azm° P°
 True Air Speed: 447.0kt | 2nd 07:01:20.3 -0.3 129.3 102.8 3rd 07:03:04.8 -0.1 129.1 281.6
 Wind Speed: 0.0kt | Latitude: 52° 29' 20.2" S Latitude: 52° 39' 30.0" S
 Wind Direction: 0.0° | Longitude: 051° 03' 24.5" W Longitude: 051° 17' 01.3" W

WAYPT	UTC	AIRCRAFT								UMBRA CENTER					
		Longitude HHMMSS DDDMM.fff	Latitude DDMM.fff	MidΔT secs	MidΔD nm	LOS	Course	Azm	Alt	Longitude DDDMM.fff	Latitude DDMM.fff	Width km	Speed km/h	Azm	Alt
TRS40	062214	W04626.677	S4838.185	-2400	-298.0	-4.0	215.57	133.3	---	---	---	---	---	---	---
TRS39	062314	W04633.211	S4844.227	-2340	-290.5	-3.9	215.65	133.2	---	---	---	---	---	---	---
TRS38	062414	W04639.771	S4850.262	-2280	-283.1	-3.8	215.73	133.0	---	---	---	---	---	---	---
TRS37	062514	W04646.357	S4856.290	-2220	-275.6	-3.7	215.81	132.9	---	---	---	---	---	---	---
TRS36	062614	W04652.970	S4902.313	-2160	-268.2	-3.6	215.90	132.8	---	---	---	---	---	---	---
TRS35	062714	W04659.609	S4908.328	-2100	-260.7	-3.5	215.98	132.7	---	---	---	---	---	---	---
TRS34	062814	W04706.276	S4914.338	-2040	-253.3	-3.4	216.06	132.6	---	---	---	---	---	---	---
TRS33	062914	W04712.969	S4920.340	-1980	-245.8	-3.3	216.15	132.5	---	---	---	---	---	---	---
TRS32	063014	W04719.689	S4926.337	-1920	-238.4	-3.2	216.23	132.4	---	---	---	---	---	---	---
TRS31	063114	W04726.437	S4932.326	-1860	-230.9	-3.1	216.32	132.3	---	---	---	---	---	---	---
TRS30	063214	W04733.212	S4938.309	-1800	-223.5	-3.0	216.40	132.2	---	---	---	---	---	---	---
TRS29	063314	W04740.015	S4944.285	-1740	-216.0	-2.9	216.49	132.1	---	---	---	---	---	---	---
TRS28	063414	W04746.846	S4950.254	-1680	-208.6	-2.8	216.58	132.0	---	---	---	---	---	---	---
TRS27	063514	W04753.705	S4956.217	-1620	-201.1	-2.7	216.66	131.9	---	---	---	---	---	---	---
TRS26	063614	W04800.592	S5002.173	-1560	-193.7	-2.6	216.75	131.8	---	---	---	---	---	---	---
TRS25	063714	W04807.508	S5008.121	-1500	-186.2	-2.5	216.84	131.7	---	---	---	---	---	---	---
TRS24	063814	W04814.452	S5014.063	-1440	-178.8	-2.4	216.93	131.6	---	---	---	---	---	---	---
TRS23	063914	W04821.425	S5019.997	-1380	-171.3	-2.3	217.02	131.5	---	---	---	---	---	---	---
TRS22	064014	W04828.427	S5025.925	-1320	-163.9	-2.2	217.11	131.4	---	---	---	---	---	---	---
TRS21	064114	W04835.458	S5031.845	-1260	-156.4	-2.1	217.20	131.3	---	---	---	---	---	---	---
TRS20	064214	W04842.519	S5037.759	-1200	-149.0	-2.0	217.29	131.2	---	---	---	---	---	---	---
TRS19	064314	W04849.609	S5043.664	-1140	-141.5	-1.9	217.38	131.1	---	---	---	---	---	---	---
TRS18	064414	W04856.729	S5049.563	-1080	-134.1	-1.8	217.47	131.0	---	---	---	---	---	---	---
TRS17	064514	W04903.879	S5055.454	-1020	-126.6	-1.7	217.57	130.9	---	---	---	---	---	---	---
TRS16	064614	W04911.059	S5101.338	-960	-119.2	-1.6	217.66	130.8	---	---	---	---	---	---	---
TRS15	064714	W04918.269	S5107.214	-900	-111.7	-1.5	217.75	130.7	---	---	---	---	---	---	---
TRS14	064814	W04925.510	S5113.083	-840	-104.3	-1.4	217.85	130.6	---	---	---	---	---	---	---
TRS13	064914	W04932.782	S5118.944	-780	-96.8	-1.3	217.94	130.5	---	---	---	---	---	---	---
TRS12	065014	W04940.085	S5124.798	-720	-89.4	-1.2	218.04	130.4	---	---	---	---	---	---	---
TRS11	065114	W04947.418	S5130.644	-660	-81.9	-1.1	218.13	130.3	---	---	---	---	---	---	---
TRS10	065214	W04954.783	S5136.482	-600	-74.5	-1.0	218.23	130.2	---	---	---	---	---	---	---
TRS09	065314	W05002.180	S5142.312	-540	-67.0	-0.9	218.32	130.1	---	---	---	---	---	---	---
TRS08	065414	W05009.608	S5148.134	-480	-59.6	-0.8	218.42	130.0	---	---	---	---	---	---	---
TRS07	065514	W05017.068	S5153.948	-420	-52.1	-0.7	218.52	129.9	---	---	---	---	---	---	---
TRS06	065614	W05024.561	S5159.755	-360	-44.7	-0.6	218.62	129.8	---	---	---	---	---	---	---
TRS05	065714	W05032.086	S5205.553	-300	-37.2	-0.5	218.72	129.7	---	---	---	---	---	---	---
TRS04	065814	W05039.643	S5211.343	-240	-29.8	-0.4	218.82	129.6	---	---	---	---	---	---	---
TRS03	065914	W05047.233	S5217.125	-180	-22.3	-0.3	218.92	129.5	---	---	---	---	---	---	---
TRS02	070014	W05054.856	S5222.899	-120	-14.9	-0.2	219.02	129.4	---	---	---	---	---	---	---
TRS01	070114	W05102.512	S5228.664	-60	-7.4	-0.1	219.12	129.3	---	---	---	---	---	---	---
MEI	070214	W05110.202	S5234.421	+0	+0.0	+0.0	219.22	129.2	-0.2	---	---	---	---	---	---
	070314	W05117.925	S5240.170	+60	+7.5	+0.1	219.32	129.1	-0.1	W04531.476	S5549.709	428.3	14194.6	124.4	4.3
	070414	W05125.682	S5245.910	+120	+14.9	+0.2	219.43	129.0	0.0	W04338.940	S5714.683	434.9	10006.3	122.6	6.1
	070514	W05133.474	S5251.641	+180	+22.3	+0.3	219.53	128.9	0.1	W04219.843	S5823.662	438.3	8203.3	121.2	7.4
	070614	W05141.299	S5257.364	+240	+29.8	+0.4	219.63	128.8	0.2	W04118.343	S5924.401	440.0	7157.3	120.0	8.5
	070714	W05149.159	S5303.078	+300	+37.2	+0.5	219.74	128.7	0.3	W04028.351	S6019.899	440.7	6462.9	119.0	9.4
TREND	070814	W05157.054	S5308.783	+360	+44.7	+0.6	219.84	128.6	0.5	W03946.776	S6111.692	440.8	5964.7	118.1	10.2

TABLE 2 – EFLIGHT 2021-SOUTH (MEI 071335 UTC/39,000 ft AMSL) TOTALITY RUN

UTC Intercept: 07:13:35.0 | Totality Duration: 2m 13.4s (+0m 25.1s w.r.t. stationary observer)
 Flight Altitude: 39000ft | Horizon Depression: -3.5° (w.r.t. astronomical horizon)
 True Heading: 204.33° | Cnt hh:mm:ss.s Alt° Azm° P° Cnt hh:mm:ss.s Alt° Azm° P°
 True Air Speed: 447.0kt | 2nd 07:12:27.1 +13.3 114.5 104.1 3rd 07:14:40.5 +13.6 114.2 283.5
 Wind Speed: 0.0kt | Latitude: 65° 03' 19.5" S Latitude: 65° 20' 31.1" S
 Wind Direction: 0.0° | Longitude: 037° 26' 34.1" W Longitude: 037° 42' 56.3" W

WAYPT	UTC	AIRCRAFT								UMBRA CENTER					
		Longitude HHMMSS DDDMM.fff	Latitude DDMM.fff	MidΔT secs	MidΔD nm	LOS	Course	Azm	Alt	Longitude DDDMM.fff	Latitude DDMM.fff	Width km	Speed km/h	Azm	Alt
TRS10	070335	W03624.872	S6405.055	-600	-74.5	-1.4	203.28	115.7	12.5	---	---	---	---	---	---
TRS09	070435	W03631.593	S6411.861	-540	-67.1	-1.2	203.38	115.6	12.6	---	---	---	---	---	---
TRS08	070535	W03638.369	S6418.662	-480	-59.6	-1.1	203.48	115.4	12.7	---	---	---	---	---	---
TRS07	070635	W03645.202	S6425.457	-420	-52.2	-1.0	203.58	115.3	12.8	---	---	---	---	---	---
TRS06	070735	W03652.091	S6432.247	-360	-44.7	-0.8	203.69	115.2	12.9	---	---	---	---	---	---
TRS05	070835	W03659.037	S6439.032	-300	-37.3	-0.7	203.79	115.0	13.0	---	---	---	---	---	---
TRS04	070935	W03706.041	S6445.811	-240	-29.8	-0.5	203.90	114.9	13.1	---	---	---	---	---	---
TRS03	071035	W03713.104	S6452.584	-180	-22.4	-0.4	204.00	114.7	13.2	---	---	---	---	---	---
TRS02	071135	W03720.227	S6459.352	-120	-14.9	-0.3	204.11	114.6	13.3	---	---	---	---	---	---
TRS01	071235	W03727.410	S6506.113	-60	-7.5	-0.1	204.22	114.5	13.4	---	---	---	---	---	---
MEI	071335	W03734.653	S6512.869	+0	+0.0	+0.0	204.33	114.3	13.5	---	---	---	---	---	---
	071435	W03741.959	S6519.619	+60	+7.4	+0.1	204.44	114.2	13.6	---	---	---	---	---	---
	071535	W03749.327	S6526.363	+120	+14.9	+0.3	204.55	114.1	13.6	---	---	---	---	---	---
	071635	W03756.759	S6533.101	+180	+22.3	+0.4	204.66	113.9	13.7	---	---	---	---	---	---
	071735	W03804.255	S6539.832	+240	+29.8	+0.5	204.78	113.8	13.8	---	---	---	---	---	---
	071835	W03811.816	S6546.557	+300	+37.2	+0.7	204.89	113.7	13.9	---	---	---	---	---	---
TREND	071935	W03819.443	S6553.276	+360	+44.7	+0.8	205.01	113.5	14.0	---	---	---	---	---	---