

AS 870 – ALTERNATE TOTALITY RUNS -- Ground Speed = 447.4 kts
 Flight Levels from 28 kft to 35 kft in 1,000 ft increments
 Mid Eclipse Intercept from 03:35:00 – 03:38:00 UTC in 15s increments
 Time-Related Waypoints: TRS, MEI, TRE
 (prepared by G. Schneider, 9 Nov 2015)

FL.	TRS 03:26:00	MEI 03:35:00	TRE 03:41:00
280	-159.15435 +31.99035	-158.85660 +30.90039	-158.66184 +30.17327
290	-159.16811 +31.98754	-158.87023 +30.89766	-158.67538 +30.17060
300	-159.18186 +31.98473	-158.88384 +30.89493	-158.68891 +30.16793
310	-159.19559 +31.98192	-158.89745 +30.89221	-158.70242 +30.16526
320	-159.20931 +31.97911	-158.91103 +30.88948	-158.71592 +30.16259
330	-159.22301 +31.97630	-158.92460 +30.88676	-158.72940 +30.15992
340	-159.23670 +31.97350	-158.93816 +30.88404	-158.74287 +30.15725
350	-159.25038 +31.97070	-158.95170 +30.88132	-158.75633 +30.15459
360	-159.26404 +31.96789	-158.96523 +30.87860	-158.76977 +30.15192
370	-159.27768 +31.96509	-158.97875 +30.87588	-158.78320 +30.14926

FL.	TRS 03:26:15	MEI 03:35:15	TRE 03:41:15
280	-158.50455 +32.09299	-158.21476 +31.00141	-158.02521 +30.27324
290	-158.51906 +32.09012	-158.22913 +30.99862	-158.03949 +30.27050
300	-158.53356 +32.08724	-158.24348 +30.99584	-158.05375 +30.26777
310	-158.54804 +32.08437	-158.25782 +30.99305	-158.06800 +30.26504
320	-158.56251 +32.08150	-158.27214 +30.99026	-158.08223 +30.26231
330	-158.57695 +32.07863	-158.28645 +30.98748	-158.09644 +30.25958
340	-158.59138 +32.07577	-158.30074 +30.98470	-158.11063 +30.25685
350	-158.60579 +32.07290	-158.31501 +30.98191	-158.12481 +30.25413
360	-158.62019 +32.07004	-158.32926 +30.97913	-158.13897 +30.25140
370	-158.63457 +32.06718	-158.34350 +30.97636	-158.15312 +30.24868

FL.	TRS 03:26:30	MEI 03:35:30	TRE 03:41:30
280	-157.81641 +32.19869	-157.53504 +31.10545	-157.35103 +30.37619
290	-157.83180 +32.19574	-157.55027 +31.10259	-157.36616 +30.37339
300	-157.84717 +32.19279	-157.56549 +31.09973	-157.38127 +30.37058
310	-157.86251 +32.18985	-157.58068 +31.09687	-157.39637 +30.36778
320	-157.87784 +32.18691	-157.59586 +31.09402	-157.41145 +30.36498
330	-157.89315 +32.18397	-157.61102 +31.09116	-157.61102 +31.09116
340	-157.90844 +32.18103	-157.62616 +31.08831	-157.44154 +30.35939
350	-157.92371 +32.17810	-157.64127 +31.08546	-157.45656 +30.35659
360	-157.93897 +32.17516	-157.65637 +31.08261	-157.47155 +30.35380
370	-157.95420 +32.17223	-157.67145 +31.07976	-157.48653 +30.35101

FL.	TRS 03:26:45	MEI 03:35:45	TRE 03:41:45
280	-157.08312 +32.30796	-156.81074 +31.21302	-156.63262 +30.48265
290	-157.09955 +32.30493	-156.82699 +31.21008	-156.64877 +30.47976
300	-157.11595 +32.30190	-156.84323 +31.20714	-156.66489 +30.47688
310	-157.13233 +32.29887	-156.85944 +31.20420	-156.68099 +30.47399
320	-157.14868 +32.29585	-156.87563 +31.20126	-156.69707 +30.47111
330	-157.16501 +32.29282	-156.89179 +31.19832	-156.71312 +30.46823
340	-157.18132 +32.28980	-156.90793 +31.19539	-156.72916 +30.46535
350	-157.19760 +32.28679	-156.92405 +31.19245	-156.74517 +30.46248
360	-157.21386 +32.28377	-156.94015 +31.18952	-156.76115 +30.45960
370	-157.23010 +32.28075	-156.95622 +31.18659	-156.77712 +30.45673

FL.	TRS 03:27:00	MEI 03:36:00	TRE 03:42:00
280	-156.29563 +32.42151	-156.03289 +31.32482	-155.86110 +30.59330
290	-156.31331 +32.41838	-156.05039 +31.32178	-155.87848 +30.59031
300	-156.33096 +32.41525	-156.06785 +31.31873	-155.89583 +30.58732
310	-156.34858 +32.41212	-156.08529 +31.31569	-155.91314 +30.58434
320	-156.36617 +32.40900	-156.10270 +31.31266	-155.93043 +30.58136
330	-156.38374 +32.40587	-156.12009 +31.30962	-155.94770 +30.57839
340	-156.40127 +32.40275	-156.13744 +31.30659	-155.96493 +30.57541
350	-156.41878 +32.39964	-156.15476 +31.30356	-155.98214 +30.57244
360	-156.43626 +32.39652	-156.17206 +31.30053	-155.99932 +30.56947
370	-156.45371 +32.39341	-156.18933 +31.29751	-156.01647 +30.56650

FL.	TRS 03:27:15	MEI 03:36:15	TRE 03:42:15
280	-155.44134 +32.54032	-155.18907 +31.44180	-155.02415 +30.70908
290	-155.46058 +32.53706	-155.20811 +31.43863	-155.04306 +30.70598
300	-155.47979 +32.53380	-155.22712 +31.43547	-155.22712 +31.43547
310	-155.49896 +32.53055	-155.24608 +31.43231	-155.08076 +30.69977
320	-155.51809 +32.52730	-155.26501 +31.42915	-155.09956 +30.69667
330	-155.53719 +32.52406	-155.28391 +31.42599	-155.11832 +30.69357
340	-155.55625 +32.52081	-155.30277 +31.42284	-155.13705 +30.69047
350	-155.57528 +32.51757	-155.32159 +31.41969	-155.15574 +30.68738
360	-155.59427 +32.51434	-155.34038 +31.41654	-155.17440 +30.68429
370	-155.61322 +32.51110	-155.35914 +31.41339	-155.19303 +30.68121

FL.	TRS 03:27:30	MEI 03:36:30	TRE 03:42:30
280	-154.50188 +32.66579	-154.26114 +31.56537	-154.10377 +30.83140
290	-154.52315 +32.66237	-154.28218 +31.56204	-154.12466 +30.82814
300	-154.54437 +32.65895	-154.30317 +31.55872	-154.14550 +30.82487
310	-154.56555 +32.65554	-154.32412 +31.55540	-154.16630 +30.82161
320	-154.58667 +32.65213	-154.34501 +31.55208	-154.18705 +30.81836
330	-154.60775 +32.64873	-154.36587 +31.54877	-154.20775 +30.81511
340	-154.62878 +32.64533	-154.38667 +31.54546	-154.22840 +30.81186
350	-154.64977 +32.64194	-154.40743 +31.54216	-154.24901 +30.80862
360	-154.67070 +32.63855	-154.42814 +31.53886	-154.26958 +30.80538
370	-154.69159 +32.63516	-154.44881 +31.53556	-154.29010 +30.80214

FL.	TRS 03:27:45	MEI 03:36:45	TRE 03:42:45
280	-153.44852 +32.80014	-153.22070 +31.69770	-153.07180 +30.96242
290	-153.47258 +32.79650	-153.47258 +32.79650	-153.47258 +32.79650
300	-153.49656 +32.79287	-153.26821 +31.69062	-153.26821 +31.69062
310	-153.52047 +32.78924	-153.29186 +31.68709	-153.14244 +30.95199
320	-153.54432 +32.78562	-153.31544 +31.68356	-153.16585 +30.94853
330	-153.56810 +32.78200	-153.33896 +31.68004	-153.18920 +30.94507
340	-153.59181 +32.77839	-153.36242 +31.67652	-153.21248 +30.94161
350	-153.61546 +32.77479	-153.38580 +31.67301	-153.23570 +30.93816
360	-153.63904 +32.77119	-153.40913 +31.66950	-153.25885 +30.93472
370	-153.66256 +32.76759	-153.43239 +31.66600	-153.28194 +30.93128

FL.	TRS 03:28:00	MEI 03:37:00	TRE 03:43:00
280	-152.23147 +32.94720	-152.01858 +31.84259	-151.87946 +31.10588
290	-152.25969 +32.94324	-152.04648 +31.83873	-151.90716 +31.10208
300	-152.28779 +32.93928	-152.07428 +31.83487	-151.93474 +31.09829
310	-152.31580 +32.93534	-152.10196 +31.83102	-151.96222 +31.09451
320	-152.34369 +32.93140	-152.12954 +31.82718	-151.98960 +31.09073
330	-152.37148 +32.92747	-152.15702 +31.82335	-152.01687 +31.08697
340	-152.39916 +32.92355	-152.18440 +31.81953	-152.04405 +31.08321
350	-152.42675 +32.91963	-152.21167 +31.81571	-152.07112 +31.07946
360	-152.45423 +32.91573	-152.23884 +31.81190	-152.09809 +31.07572
370	-152.48161 +32.91183	-152.26592 +31.80810	-152.12496 +31.07198