

Translunar injection from a construction orbit

translunar.ods KHL 2018/09/08

398600.4418	km ³ /s ²	Grav parameter
6430	km	Entry
8378	km	Perigee
75950	km	Apogee
385000	km	Moon

Construction Orbit

6430	km	Entry
8378	km	Perigee
75950	km	Apogee
42164	km	semimajor
86164	sec	period
9257	m/s	perigee velocity
1021	m/s	apogee velocity
905	m/s	Entry apogee velocity
10691	m/s	Entry perigee velocity
116	m/s	Entry burn delta V
36	hours	worst case return time

Lunar Transfer Orbit

6430	km	Entry
8378	km	perigee
385000	km	apogee
196689	km	semimajor
868123	sec	period
9650	m/s	perigee velocity
210	m/s	apogee velocity
184	m/s	Entry apogee velocity
11043	m/s	Entry perigee velocity
26	m/s	Entry burn delta V
362	hours	worst case return time
393	m/s	perigee injection velocity from construction orbit
352	m/s	direct launch velocity difference
41	m/s	extra cost of construction orbit