

```
E_0 = 2.0163 rad  
E_1 = 2.0210 rad  
E_2 = 2.0210 rad  
r = 1.218a  
v = 0.802 sqrt(mu / a)  
gamma = 0.479 rad  
v_c = 0.711 sqrt(mu/a)  
v_r = 0.370 sqrt(mu/a)  
>>
```