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```
function cost_transport = compute_cost_transport(theta_1, avg_power)

% Computes the cost of transportation.

M = 1.336595; % kg
g = 9.81; % m/s
L_B = 0.5; % meter
avg_theta_1 = mean(theta_1); %rad/s

cost_transport = abs(avg_power/(g * M * L_B * avg_theta_1));
return
```

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