

Gravitational acceleration	9.8 m/s ²
Force of friction	3.4 N
Predicted Thrust	6.5 N

	(Expected Net Thrust)	Actual Net Thrust	
$d = 1/2 at^2$			
$a = 2d/(t^2)$	Actual Net Thrust	Thrust + Friction	$v = (\text{Actual Net Thrust} * \text{Impulse duration}) / \text{Mass}$
$F = m * 2d/(t^2)$	+ Force of Friction	Friction)/(Actual Net Force + Friction)	

Run	Impulse Phase		Glide Phase		Time			Distance			Flight Performance Metrics				
	Start Time (s)	End time (s)	Start Time	End Time	Impulse duration	Glide Duration (s)	Total Travel time (s)	Total Distance travelled (m)	Impulse Phase Distance (m)	Glide Distance (m)	Actual Net Thrust (N)	Actual Generated Thrust (N)	% Difference in Thrust (Model vs Measured)	Actual Net Impulse (Ns)	Peak Velocity (m/s)
1	10.2	10.63	10.63	10.84	0.43	0.2	0.6	0.42	0.3	0.13	1.6	4.9	24%	0.7	1.4
2	21.05	21.53	21.53	22.15	0.48	0.6	1.1	1.60	0.7	0.91	2.9	6.3	3%	1.4	2.9
3	13.60	14.10	14.10	14.52	0.5	0.4	0.9	0.89	0.4	0.47	1.7	5.0	23%	0.8	1.7
4	12.55	13.11	13.11	13.54	0.56	0.4	1.0	1.52	0.7	0.79	2.3	5.7	13%	1.3	2.6

Legend	
Green	Actual measurement data
Clear	Calculated from data using arithmetic
Gold	Well known value, sourced via an external source
Grey	Predicted by model
Orange	Indirect measurement: using actual data and Newton's laws of motion and motion equations