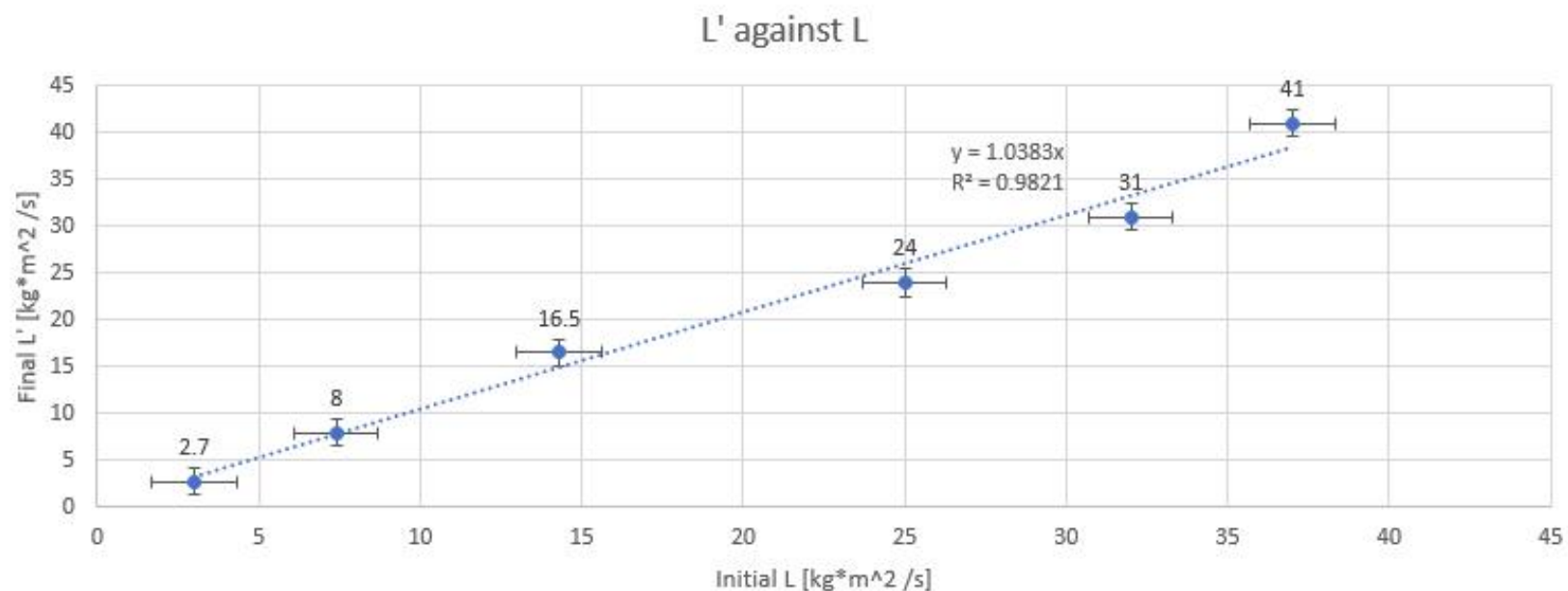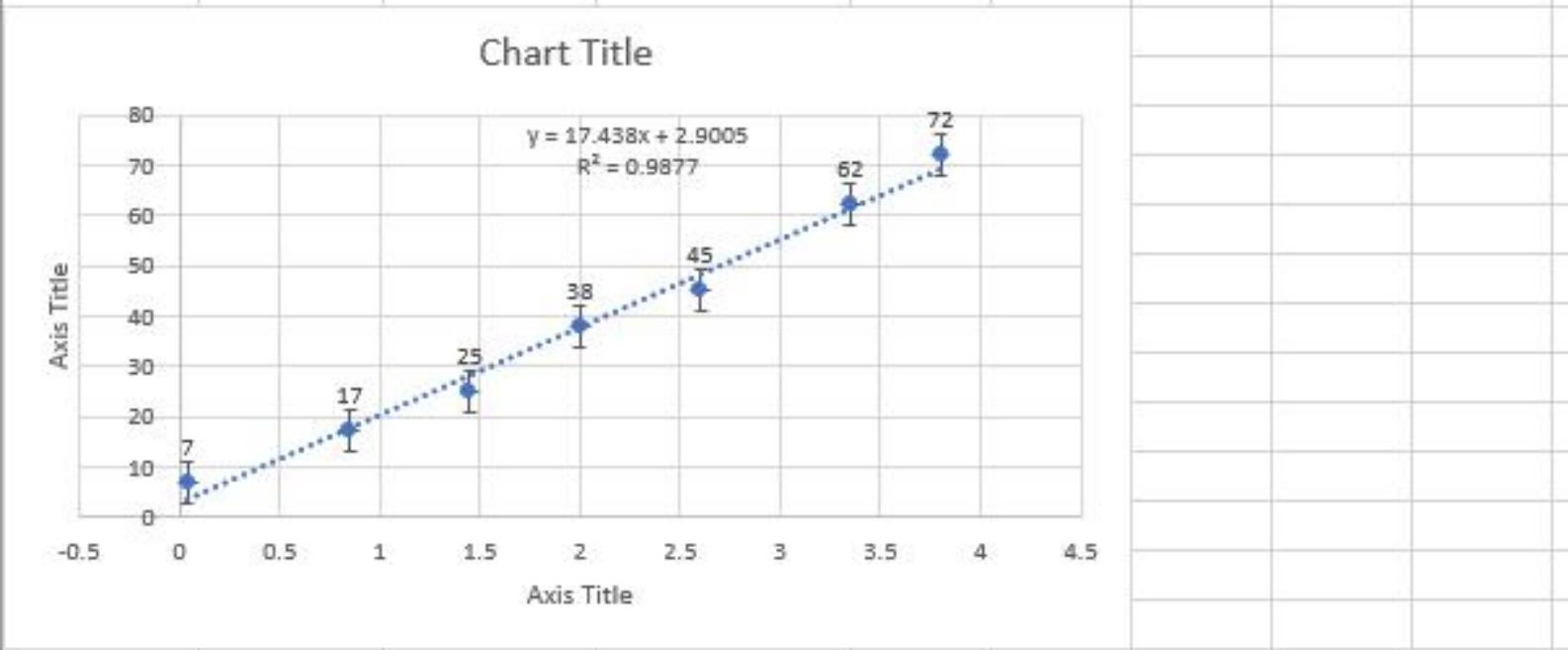| Initial L	Final L	Initial L Standard Deviation	Initial L Uncertianty	Final L Standard Deviation	Final L Uncertainty	L - L'
3	2.7	0.3	0.1	0.6	0.222222222	0.3
7.4	8	0.5	0.067567568	1	0.125	-0.6
14.3	16.5	1	0.06993007	1	0.060606061	-2.2
25	24	2	0.08	2	0.083333333	1
32	31	2	0.0625	2	0.064516129	1
37	41	2	0.054054054	2	0.048780488	-4
Totals		1.3	0.072341949	1.433333333	0.100743039	-0.03787

L' against L

$y = 1.0383x$
$R^2 = 0.9821$

h [m]	v^2 [m/s]	b Uncertainty	v^2 Uncertainty
0.04	7	0.05	3
0.85	17	0.05	3
1.45	25	0.05	3
2	38	0.05	4
2.6	45	0.05	5
3.35	62	0.05	5
3.8	72	0.05	6
			4.142857143

Chart Title

$y = 17.438x + 2.9005$
$R^2 = 0.9877$

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.993821883
R Square	0.987681934
Adjusted R Sq	0.985218321
Standard Erro	2.873679029
Observations	7

ANOVA

	df	SS	MS	F	gnificance F
Regression	1	3310.709844	3310.709844	400.9079	5.74E-06
Residual	5	41.29015582	8.258031164		
Total	6	3352			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	ower 95.0%	pper 95.0%
Intercept	2.900526926	2.062201857	1.406519404	0.218576	-2.40053	8.201586	-2.40053	8.201586
X Variable 1	17.43763744	0.870894088	20.02268437	5.74E-06	15.19893	19.67634	15.19893	19.67634