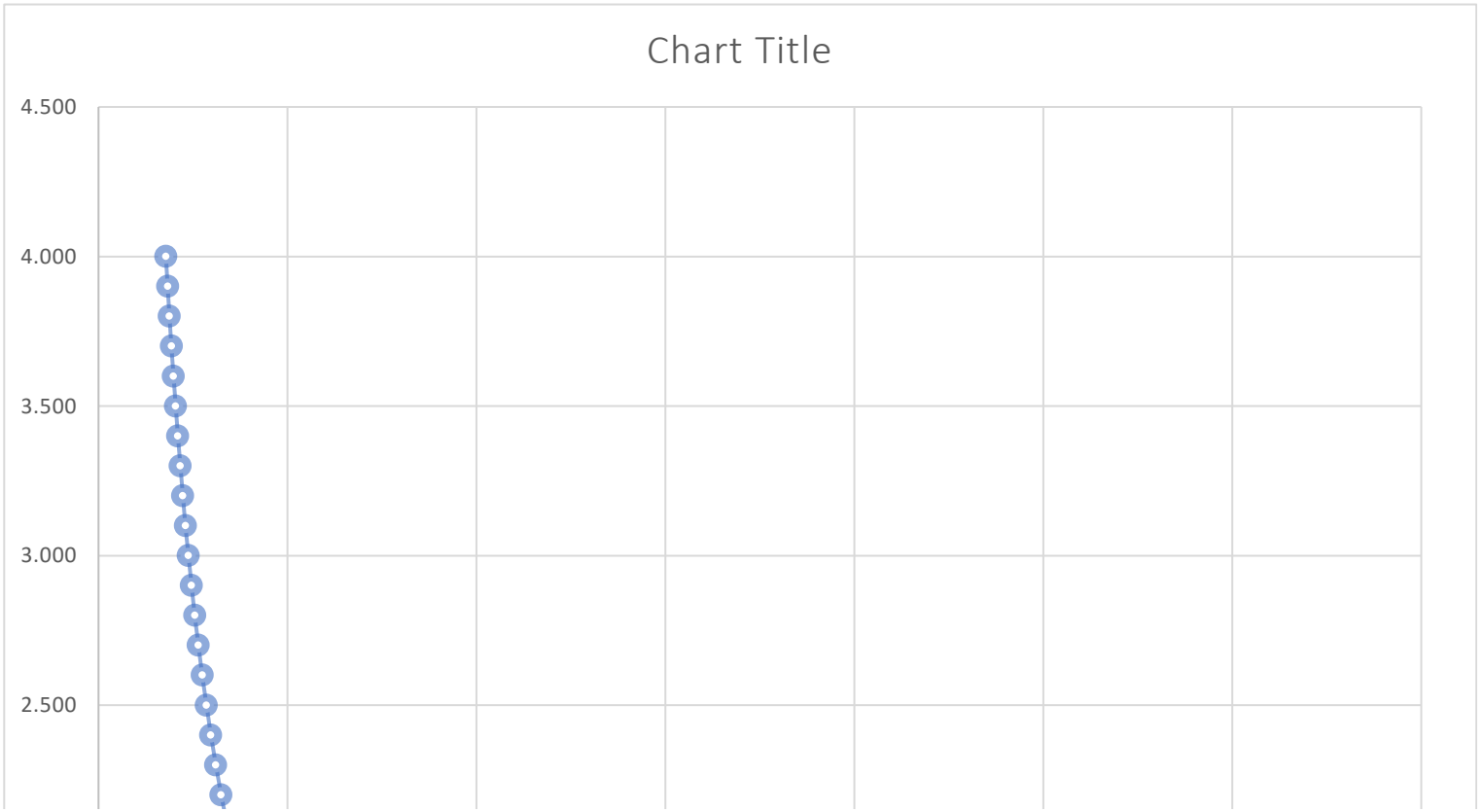
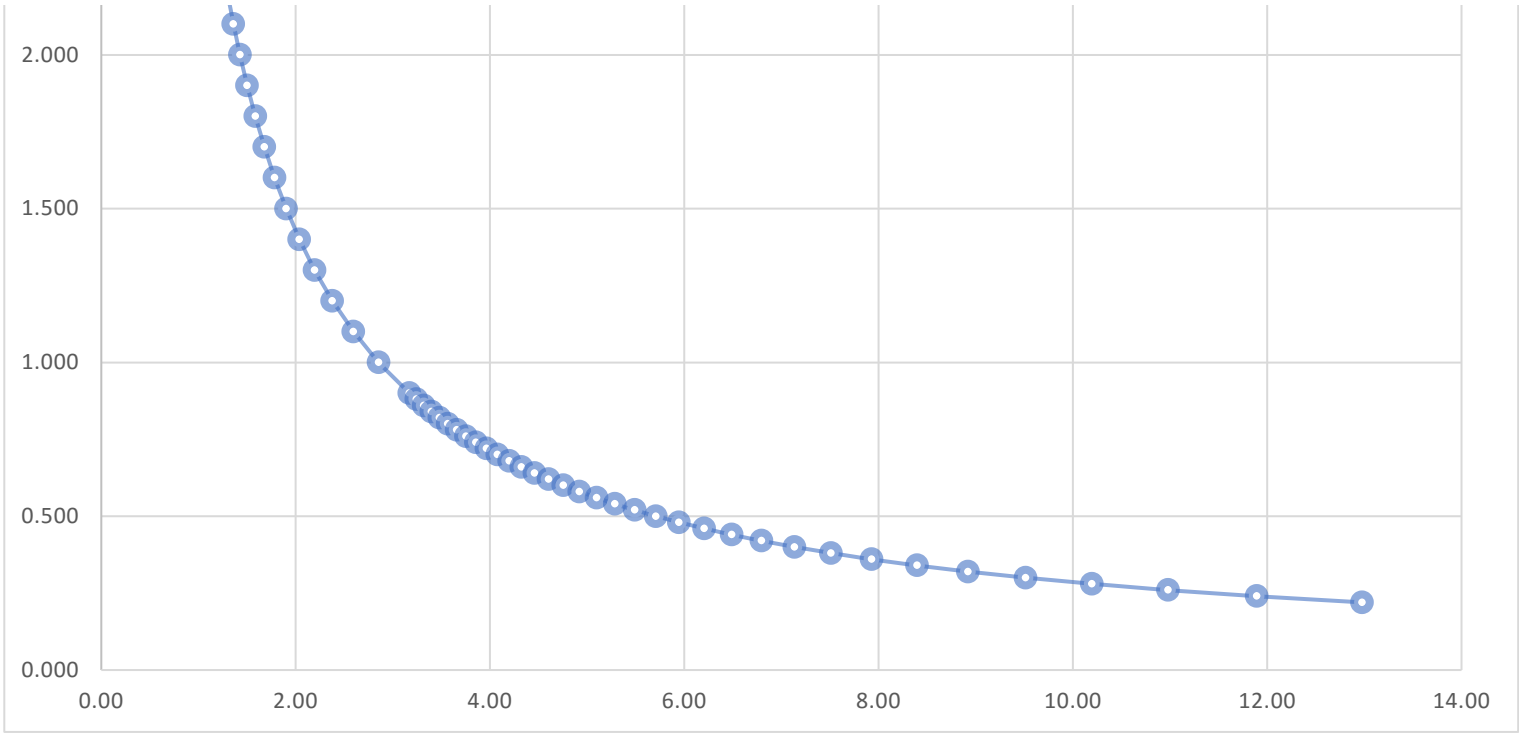
D=Sqrt(8mg)/(pi P Cd V^2)

Circular Parachute Diameter				Mass of chute + CanSat	Force of Gravity			Air Density	Drag Coefficent	CanSat Velocity	
m			con	kg	gravity m/s		Pi	Air kg/m^3	Cd	V^2 m/s	
D	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.22	0.75	6.00	)
0.476	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	6.00	)
2.855	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	1.00	)
1.903	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	1.50	)
1.427	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	2.00	)
1.142	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	2.50	)
0.952	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	3.00	)
0.816	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	3.50	)
0.714	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	4.00	)
0.634	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	4.50	)
0.571	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	5.00	)
0.519	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	5.50	)
0.476	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	6.00	)
0.439	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	6.50	)
0.408	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	7.00	)
0.381	=	sqrt (	8	0.3	9.8	) / (	3.14159	1.225	0.75	7.50	)

0.357	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	8.00	)
0.336	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	8.50	)
0.317	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	9.00	)
0.300	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	9.50	)
0.285	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	10.00	)
0.272	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	10.50	)
0.260	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	11.00	)
0.248	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	11.50	)
0.238	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	12.00	)




2.000
1.500
1.000
0.500
0.000
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00

V=Sqrt(8mg)/(pi P Cd D^2)

CanSat Velocity			con	Mass of chute + CanSat mass kg	Force of Gravity gravity m/s			Pi	Air Density Air kg/m^3	Drag Coefficent Cd	Circular Parachute Diameter D^2 m	
m/s												
V	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	0.000	)
6.00	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	0.476	)
0.71	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	4.000	)
0.73	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.900	)
0.75	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.800	)
0.77	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.700	)
0.79	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.600	)
0.82	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.500	)
0.84	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.400	)
0.87	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.300	)
0.89	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.200	)
0.92	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.100	)
0.95	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	3.000	)
0.98	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	2.900	)
1.02	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	2.800	)
1.06	=	sqrt	(8	0.3	9.8	)	/ (	3.14159	1.225	0.75	2.700	)

1.10	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.600	)
1.14	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.500	)
1.19	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.400	)
1.24	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.300	)
1.30	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.200	)
1.36	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.100	)
1.43	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	2.000	)
1.50	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.900	)
1.59	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.800	)
1.68	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.700	)
1.78	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.600	)
1.90	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.500	)
2.04	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.400	)
2.20	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.300	)
2.38	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.200	)
2.60	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.100	)
2.85	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	1.000	)
3.17	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.900	)
3.24	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.880	)
3.32	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.860	)
3.40	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.840	)
3.48	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.820	)
3.57	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.800	)
3.66	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.780	)
3.76	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.760	)
3.86	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.740	)
3.96	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.720	)
4.08	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.700	)
4.20	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.680	)
4.33	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.660	)
4.46	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.640	)
4.60	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.620	)
4.76	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.600	)

4.92	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.580	)
5.10	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.560	)
5.29	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.540	)
5.49	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.520	)
5.71	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.500	)
5.95	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.480	)
6.21	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.460	)
6.49	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.440	)
6.80	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.420	)
7.14	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.400	)
7.51	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.380	)
7.93	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.360	)
8.40	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.340	)
8.92	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.320	)
9.52	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.300	)
10.19	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.280	)
10.98	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.260	)
11.89	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.240	)
12.98	=	sqrt	(	8	0.3	9.8	)	/	(	3.14159	1.225	0.75	0.220	)