

click #	t /s	screen		reality		XUVAT model	
		x /cm	y/cm	x /m	y /m	x /m	y /m
2	0.07	2.5	3.3	0.3	0.5	0.42	0.5
4	0.13	5.0	5.0	0.7	0.7	0.73	0.8
6	0.20	7.3	8.0	1.0	1.1	1.03	1.06
8	0.27	9.5	9.5	1.3	1.3	1.34	1.28
10	0.33	11.5	11.0	1.6	1.5	1.64	1.46
12	0.40	14.5	11.9	2.0	1.6	1.94	1.59
14	0.47	16.7	12.5	2.3	1.7	2.25	1.67
16	0.53	19.5	12.7	2.7	1.7	2.55	1.71
18	0.60	22.1	12.5	3.0	1.7	2.86	1.71
20	0.67	24.5	12.0	3.4	1.6	3.16	1.67
22	0.73	26.0	11.4	3.6	1.6	3.46	1.58
24	0.80	27.5	10.0	3.8	1.4	3.77	1.45
26	0.87	29.0	8.5	4.0	1.2	4.07	1.28
28	0.93	31.5	7.5	4.3	1.0	4.38	1.06
30	1.00	33.0	5.5	4.5	0.8	4.68	0.8

Initial velocities /ms^-1

ux	4.56	launch speed / ms^-1
uy	5.55	

7.183

g	9.81	gravitational acceleration
x0	0.12	initial x value
y0	0.15	initial y value

