

Distance Test @ Various Heights					Difference	Abs Diff	% ERROR
		Computer	Actual	z [mm]			
Run 1	x [mm]	86	81	15	5	5	6.17284
	y [mm]	369	370		-1	1	0.27027
Run 2	x [mm]	605	590	113	15	15	2.542373
	y [mm]	202	190		12	12	6.315789
Run 3	x [mm]	536	534	50	2	2	0.374532
	y [mm]	378	380		-2	2	0.526316
Run 4	x [mm]	24	35	113	-11	11	31.42857
	y [mm]	53	60		-7	7	11.66667
Run 5	x [mm]	117	122	50	-5	5	4.098361
	y [mm]	460	463		-3	3	0.647948
avg					0.5	6.3	
stDev					8.195527	4.831609	

Distance Test @ Constant Heights						
(Markers placed on romi)[z = 105mm]						
		Computer	Actual	Difference	Abs Diff	% ERROR
Run 1	x [mm]	310	296	14	14	4.72973
	y [mm]	95	85	10	10	11.76471
Run 2	x [mm]	192	178	14	14	7.865169
	y [mm]	339	330	9	9	2.727273
Run 3	x [mm]	232	225	7	7	3.111111
	y [mm]	144	150	-6	6	4
Run 4	x [mm]	208	195	13	13	6.666667
	y [mm]	231	220	11	11	5
Run 5	x [mm]	141	135	6	6	4.444444
	y [mm]	232	215	17	17	7.906977
avg				9.5	10.7	
stDev				6.416126	3.772709	

Distance Test @ Constant Heights					
(Markers placed on table) [z=0mm]					
		Computer	Actual	Difference	Abs Diff
Run 1	x [mm]	7	0	7	7
	y [mm]	362	361	1	1
Run 2	x [mm]	89	90	-1	1
	y [mm]	2	0	2	2
Run 3	x [mm]	139	137	2	2
	y [mm]	46	42	4	4
Run 4	x [mm]	35	30	5	5
	y [mm]	236	242	-6	6
Run 5	x [mm]	455	443	12	12
	y [mm]	248	255	-7	7
avg				1.9	4.7
stDev				5.704774	3.465705

\*angled

Mat uncertainty  
StdevM 1 mm

AVG 7.233333333 [mm]  
Usys 7.112586652 [mm]

%ERROR

DIV0

0.277008

1.111111

DIV0

1.459854

9.52381

16.66667

2.479339

2.708804

2.745098

Orientation Angle Test		
Computer [°]		Actual [°]
Run 1		
Run 2		
Run 3		
Run 4		
Run 5		