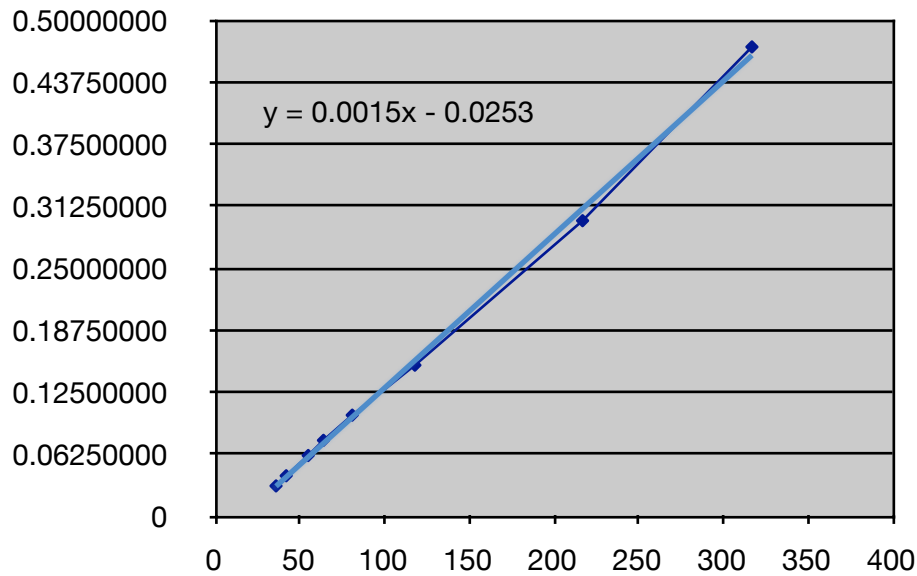




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Unit serial #1

Pixels from Center (<i>pic</i>)	Actual Distance to Target (D) (in)	Actual Distance to Target (D) (cm)	Actual Angle (θ) (rad)	Calculated Distance (in)	Calculated Distance (cm)	Distance Δ (in)	% Error
317	6	15.24	0.47305172	6.25	15.86	0.25	4.10
217	10	25.40	0.29794553	9.95	25.28	-0.05	-0.47
118	20	50.80	0.15235347	19.78	50.24	-0.22	-1.10
81	30	76.20	0.10200692	30.17	76.63	0.17	0.57
64	40	101.60	0.07662136	39.95	101.47	-0.05	-0.12
55	50	127.00	0.06134027	50.07	127.18	0.07	0.14
42	75	190.50	0.04092202	74.57	189.41	-0.43	-0.57
36	100	254.00	0.03069901	101.10	256.79	1.10	1.10
Base size (<i>h</i>) (cm)						Average % Error	
7.8						1.02	
Slope (<i>m</i>)			Intercept (<i>b</i>)				
0.001545545237			-0.0253020957				

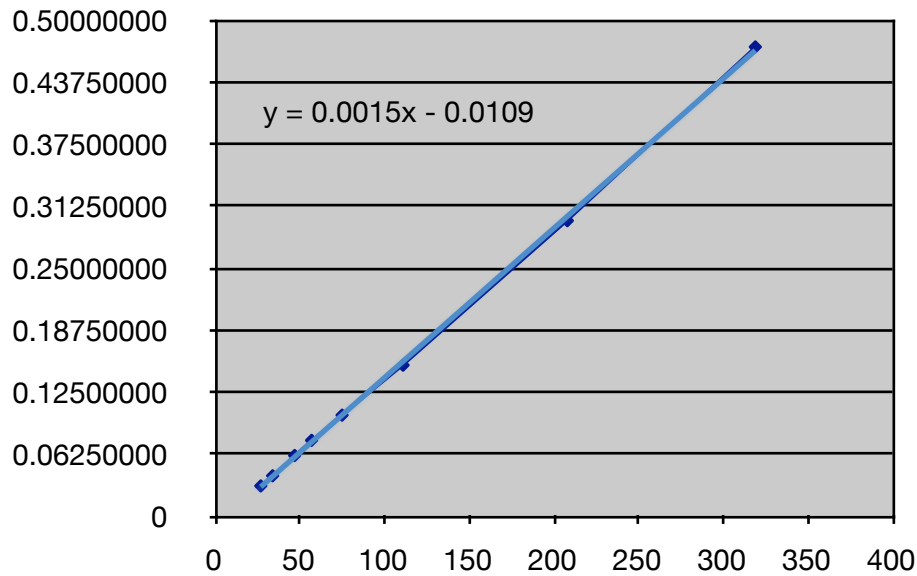




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Unit serial #2

Pixels from Center (<i>pf</i>)	Actual Distance to Target (D) (in)	Actual Distance to Target (D) (cm)	Actual Angle (θ) (rad)	Calculated Distance (in)	Calculated Distance (cm)	Distance Δ (in)	% Error
319	6	15.24	0.47305172	6.12	15.55	0.12	2.02
208	10	25.40	0.29794553	10.00	25.40	0.00	0.00
111	20	50.80	0.15235347	20.49	52.04	0.49	2.45
75	30	76.20	0.10200692	29.99	76.17	-0.01	-0.03
57	40	101.60	0.07662136	40.90	103.89	0.90	2.25
47	50	127.00	0.06134027	51.23	130.12	1.23	2.46
34	75	190.50	0.04092202	76.18	193.50	1.18	1.57
27	100	254.00	0.03069901	103.20	262.13	3.20	3.20
Base size (<i>h</i>) (cm)						Average % Error	
7.8						1.75	
Slope (<i>m</i>)			Intercept (<i>b</i>)				
0.001505998454			-0.0109157922				

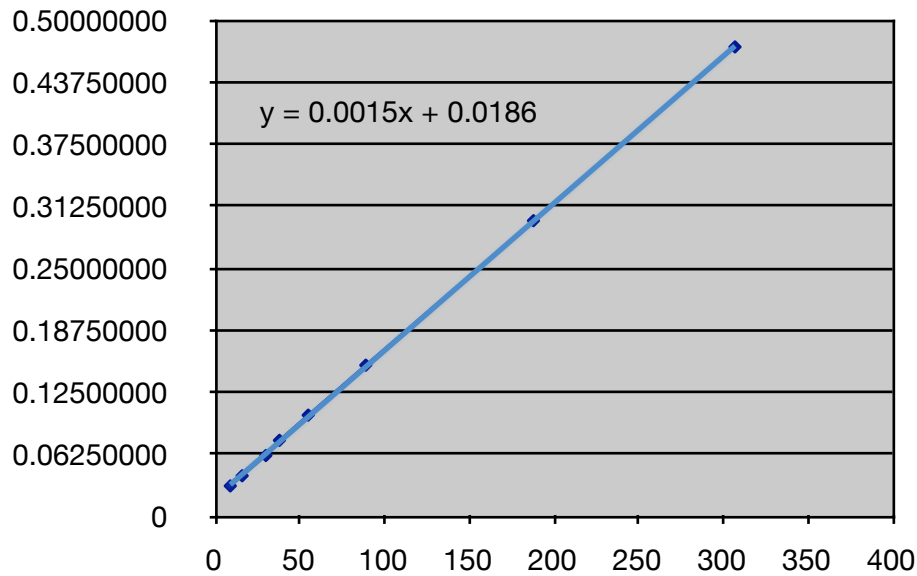




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Unit serial #3

Pixels from Center (<i>pf</i>)	Actual Distance to Target (D) (in)	Actual Distance to Target (D) (cm)	Actual Angle (θ) (rad)	Calculated Distance (in)	Calculated Distance (cm)	Distance Δ (in)	% Error
307	6	15.24	0.47305172	5.99	15.20	-0.01	-0.25
188	10	25.40	0.29794553	10.01	25.43	0.01	0.10
89	20	50.80	0.15235347	20.22	51.36	0.22	1.10
55	30	76.20	0.10200692	30.53	77.55	0.53	1.77
38	40	101.60	0.07662136	40.86	103.78	0.86	2.15
30	50	127.00	0.06134027	49.74	126.34	-0.26	-0.52
16	75	190.50	0.04092202	72.43	183.97	-2.57	-3.43
9	100	254.00	0.03069901	95.96	243.74	-4.04	-4.04
Base size (<i>h</i>) (cm)						Average % Error	
7.8						1.67	
Slope (<i>m</i>)			Intercept (<i>b</i>)				
0.001483385827			0.0186377349				

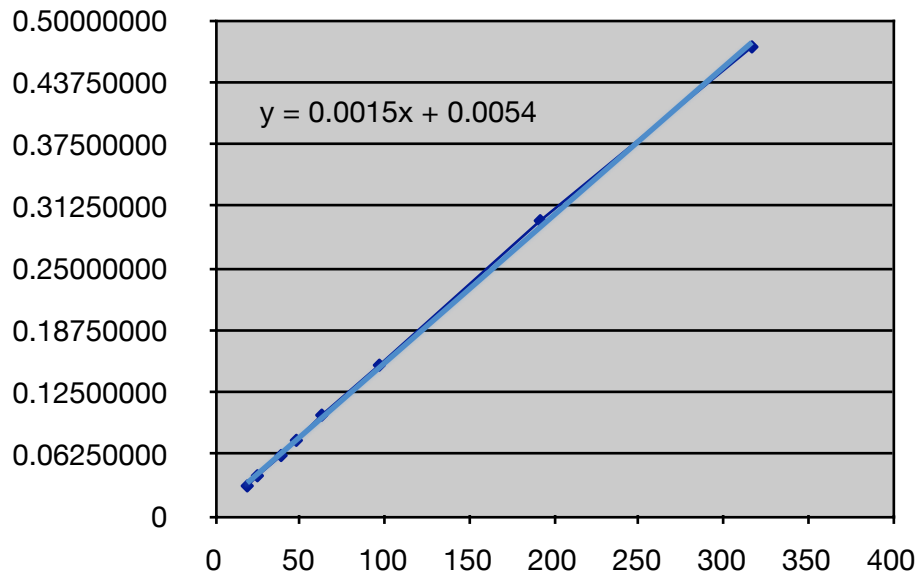




Laser Range Finder: OVM7690 Triangulation (Parallax Module Rev. A)
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Unit serial #4

Pixels from Center (<i>pf</i>)	Actual Distance to Target (D) (in)	Actual Distance to Target (D) (cm)	Actual Angle (θ) (rad)	Calculated Distance (in)	Calculated Distance (cm)	Distance Δ (in)	% Error
317	6	15.24	0.47305172	5.93	15.07	-0.07	-1.13
192	10	25.40	0.29794553	10.12	25.70	0.12	1.20
97	20	50.80	0.15235347	20.12	51.10	0.12	0.60
63	30	76.20	0.10200692	30.84	78.33	0.84	2.80
48	40	101.60	0.07662136	39.85	101.22	-0.15	-0.38
39	50	127.00	0.06134027	49.47	125.65	-0.53	-1.06
25	75	190.50	0.04092202	72.00	182.88	-3.00	-4.00
19	100	254.00	0.03069901	95.34	242.16	-4.66	-4.66
Base size (<i>h</i>) (cm)						Average % Error	
7.8						1.98	
Slope (<i>m</i>)			Intercept (<i>b</i>)				
0.001489900405			0.0053774976				





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Unit serial #5

Pixels from Center (<i>pf</i>)	Actual Distance to Target (<i>D</i>) (in)	Actual Distance to Target (<i>D</i>) (cm)	Actual Angle (θ) (rad)	Calculated Distance (in)	Calculated Distance (cm)	Distance Δ (in)	% Error
320	6	15.24	0.47305172	6.18	15.69	0.18	2.97
227	10	25.40	0.29794553	9.61	24.41	-0.39	-3.89
130	20	50.80	0.15235347	19.37	49.20	-0.63	-3.15
97	30	76.20	0.10200692	29.94	76.05	-0.06	-0.20
80	40	101.60	0.07662136	40.15	101.98	0.15	0.38
71	50	127.00	0.06134027	49.65	126.11	-0.35	-0.70
58	75	190.50	0.04092202	78.45	199.26	3.45	4.60
51	100	254.00	0.03069901	110.40	280.42	10.40	10.40
Base size (<i>h</i>) (cm)						Average % Error	
7.8						3.29	
		Slope (<i>m</i>)	Intercept (<i>b</i>)				
		0.001617493391	-0.0546934827				

