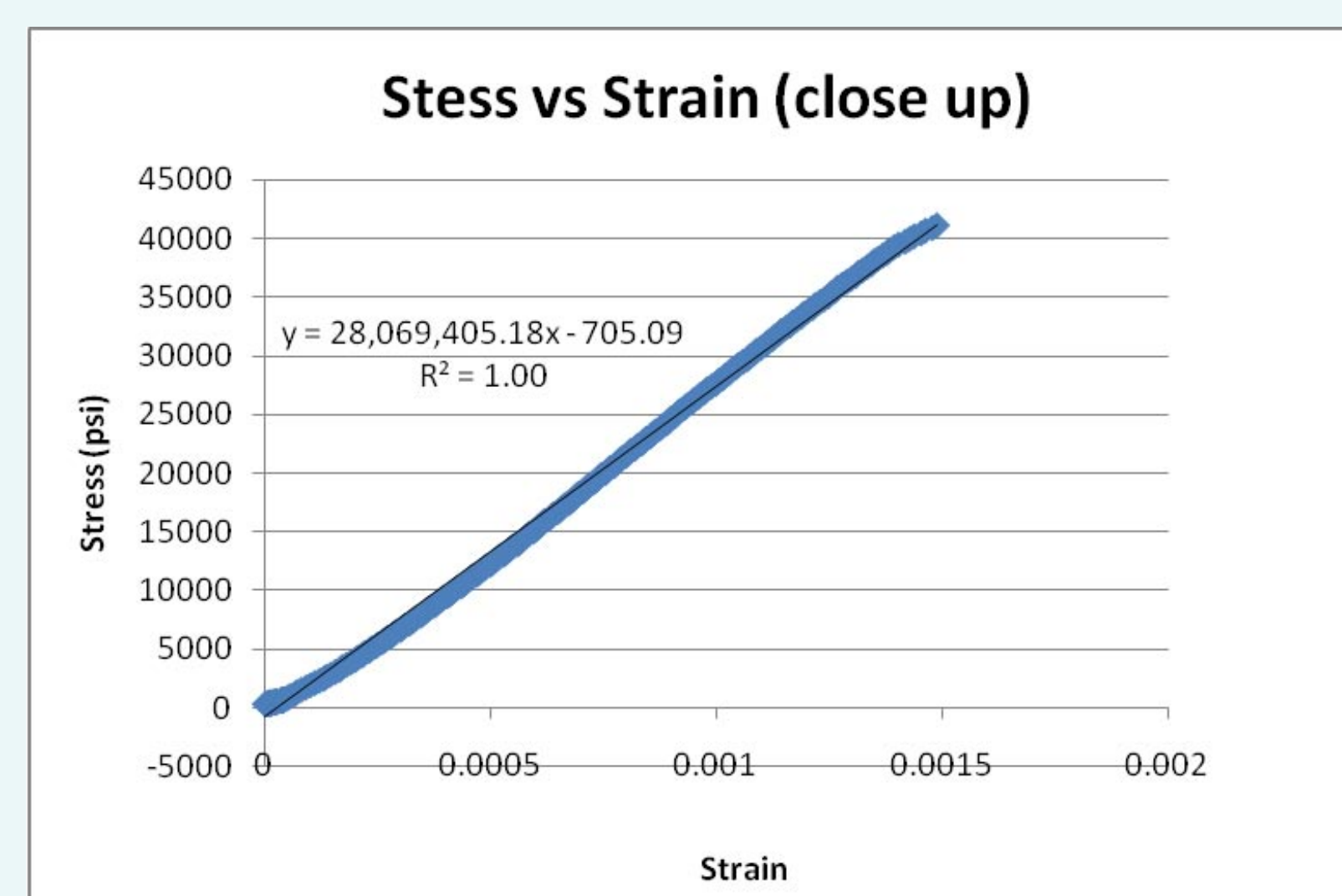
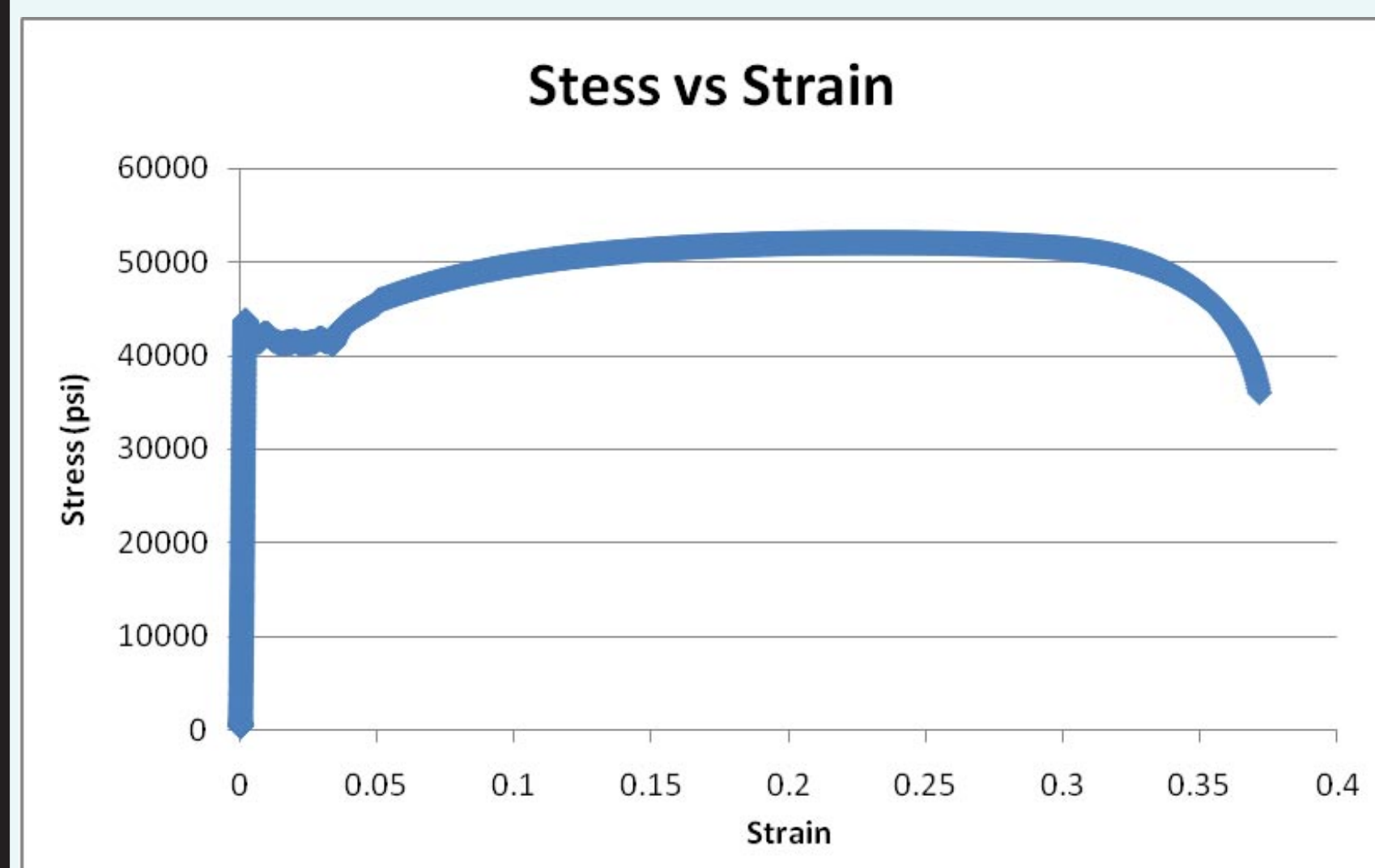
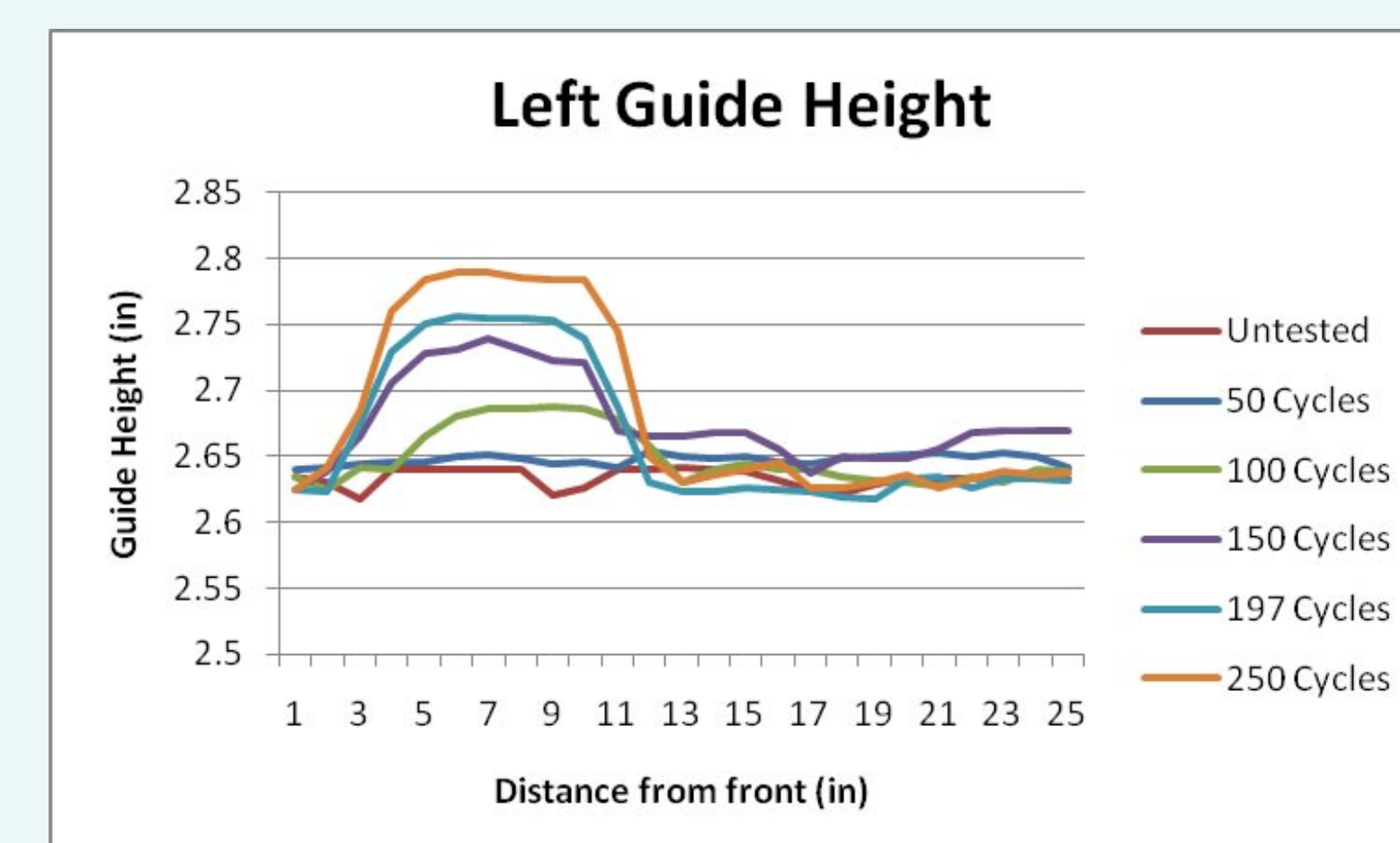
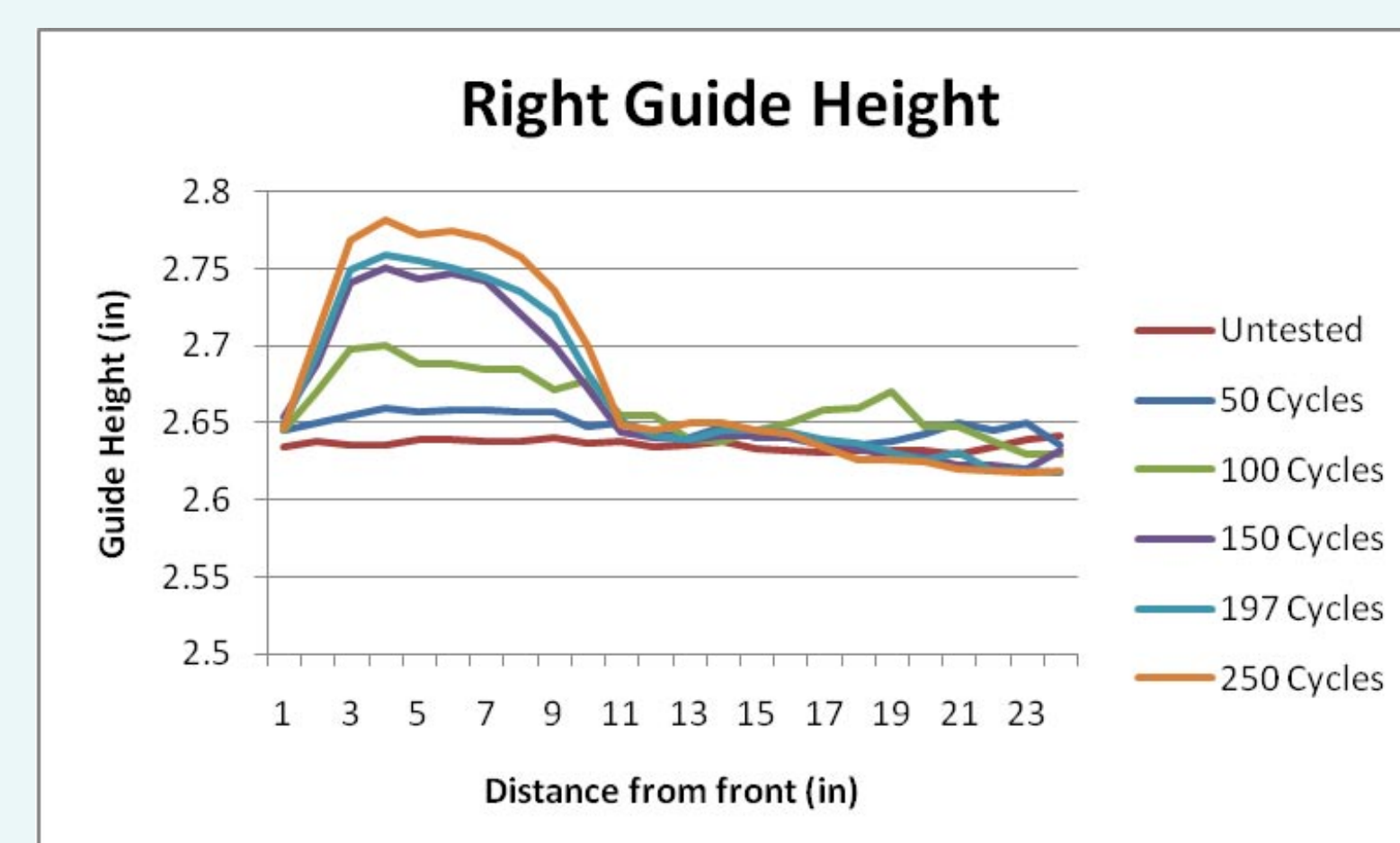
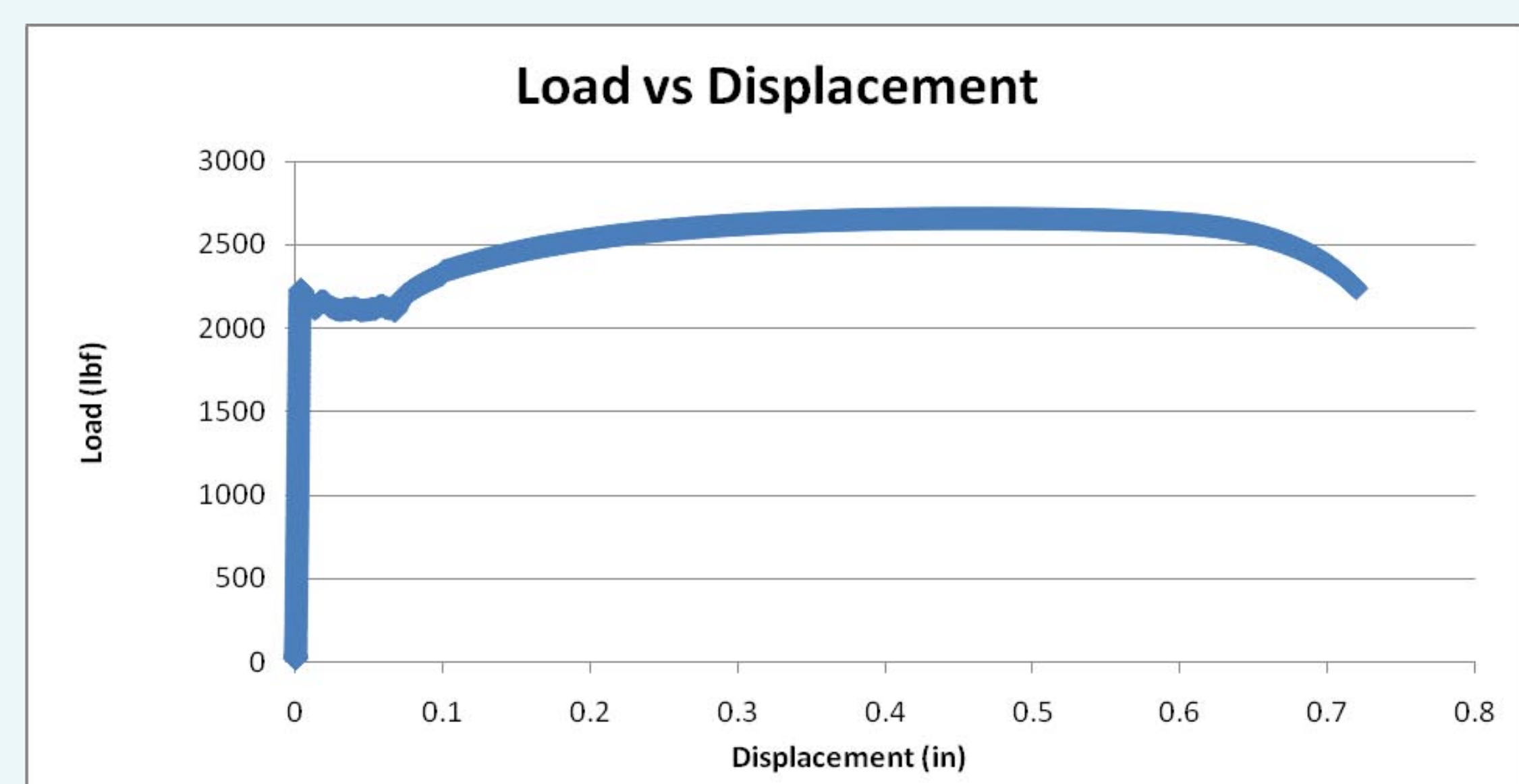
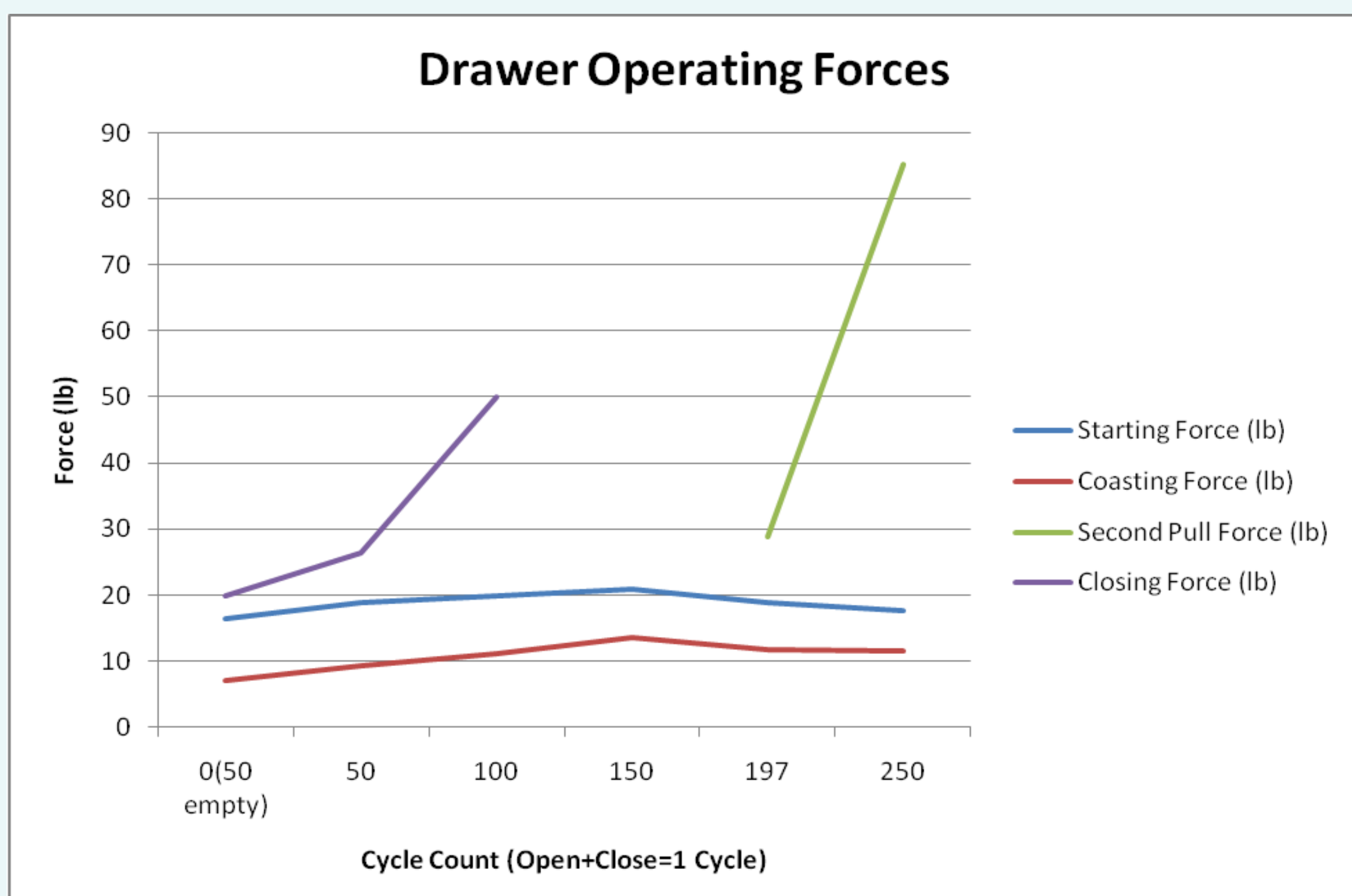
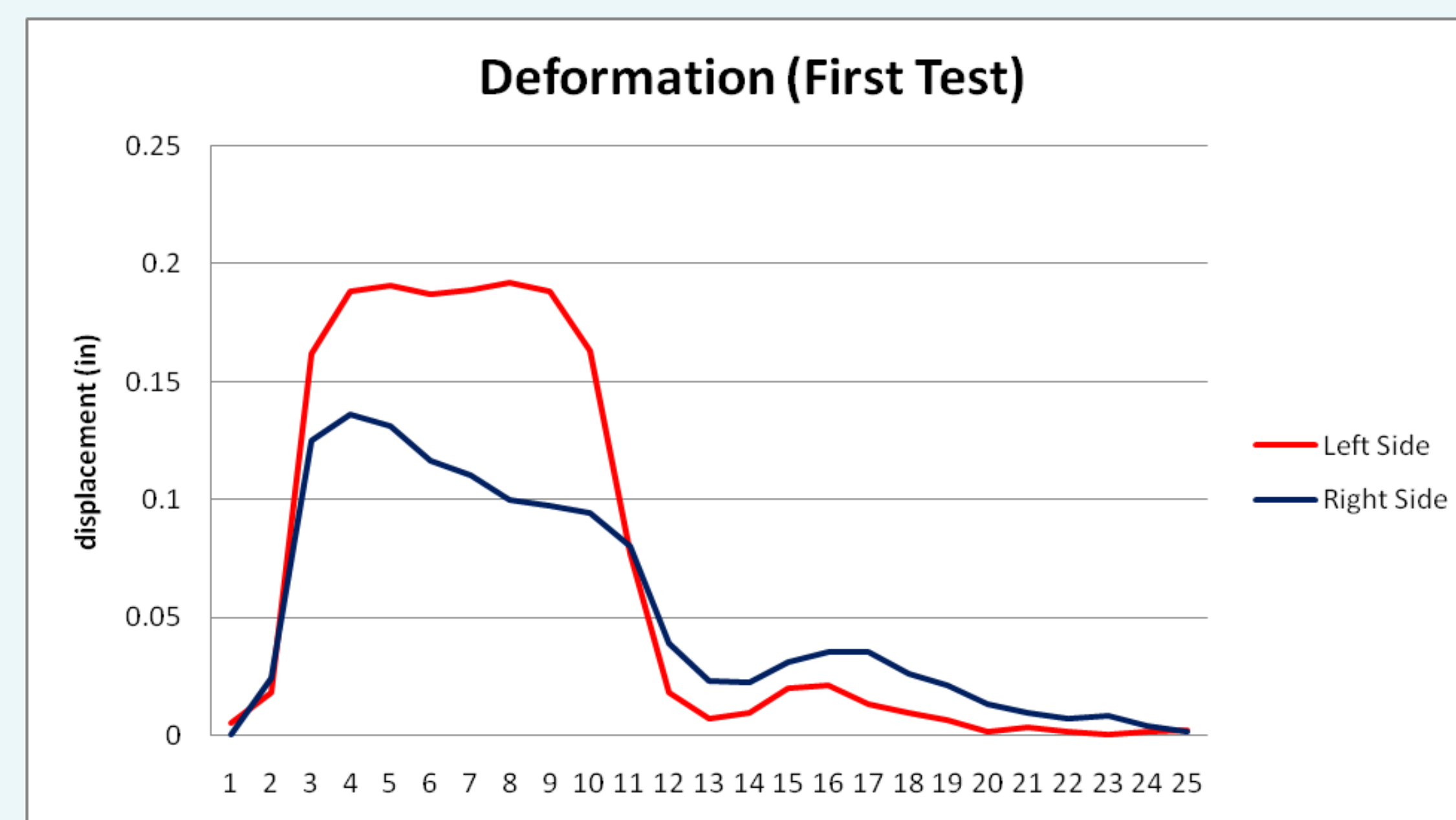


**VERSATILITY TOOL WORKS**  
& MANUFACTURING COMPANY



### Data



### Results

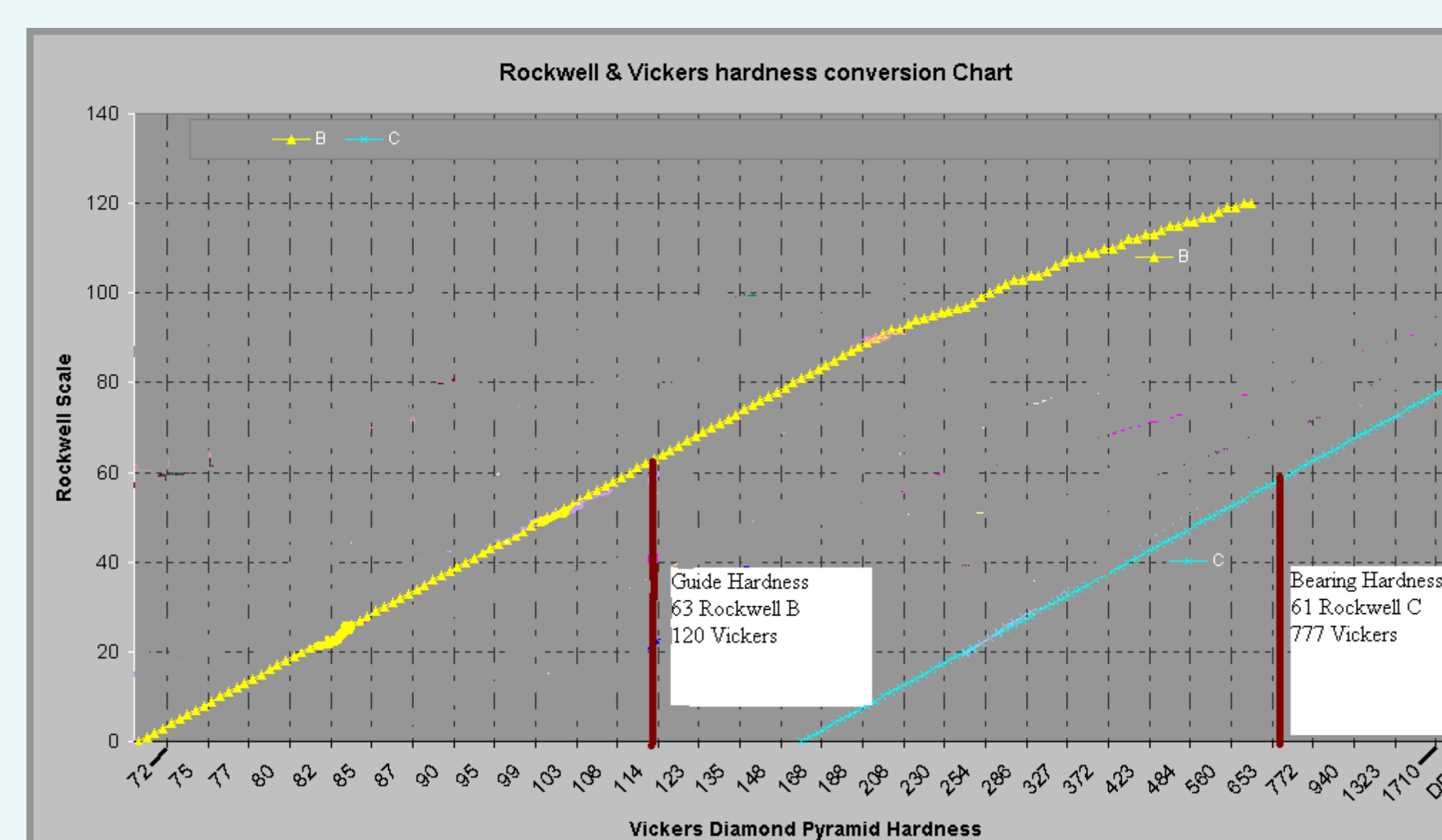
	SigmaY	Load Yield	E
computer	44.95 ksi	2157.54 lbf	32263.72 ksi
calculations	43.79 ksi	2233.23 lbf	28069.41 ksi

Rockwell B						
material	Test 1	Test 2	Test 3	Test 4	Test 5	Average
12 gage	62.6	63	63.7	64.4	63.4	63.42

**Bearings**  
Vickers 777: translates to Rockwell C of 61.18

Cycle Count	Opening			Closing	
	Starting Force (lb)	Continuous Force (lb)	Second Wind (lb)	Close Force (lb)	
0(50 empty)	16.34	7.12		NA	
50	18.84	9.3		19.84	
100	19.92	11.2		26.32	
150	20.92	13.5			
197	18.8	11.7	38.85	50	Failure
250	17.5	11.5	85.3	50	

These 2 are 50+ in reality



### Deformation

