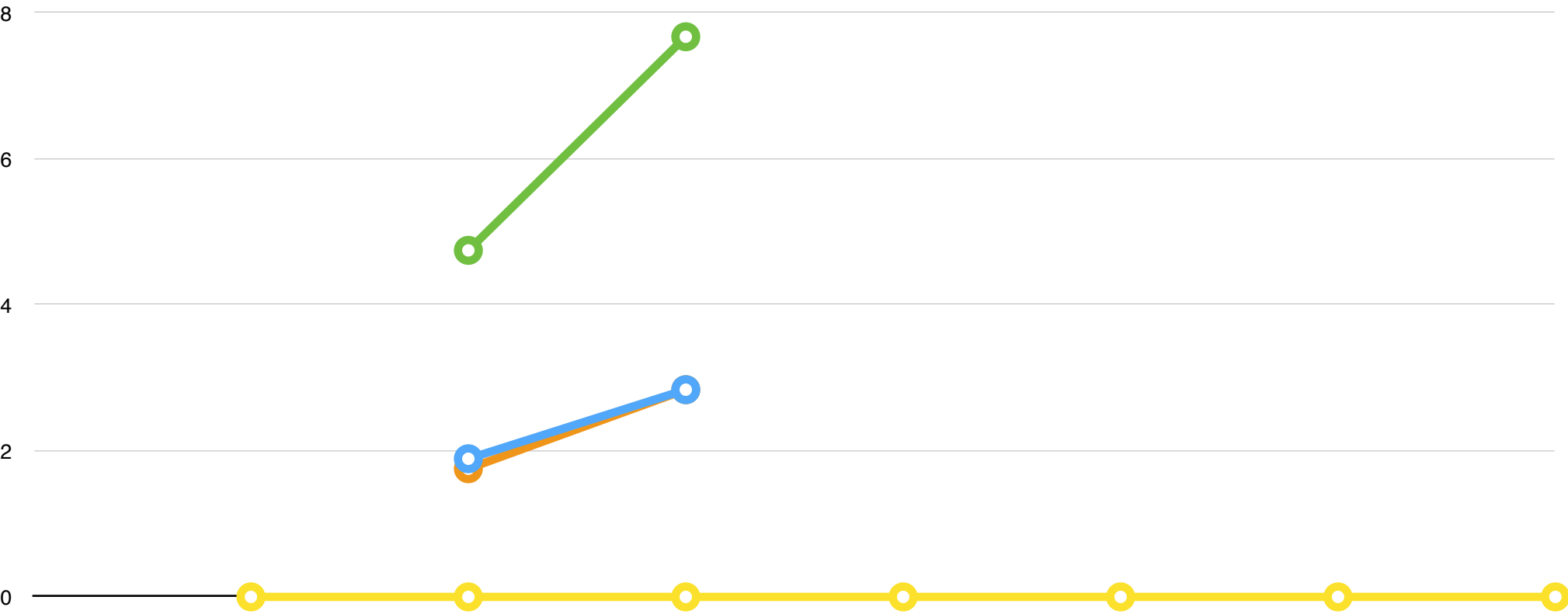
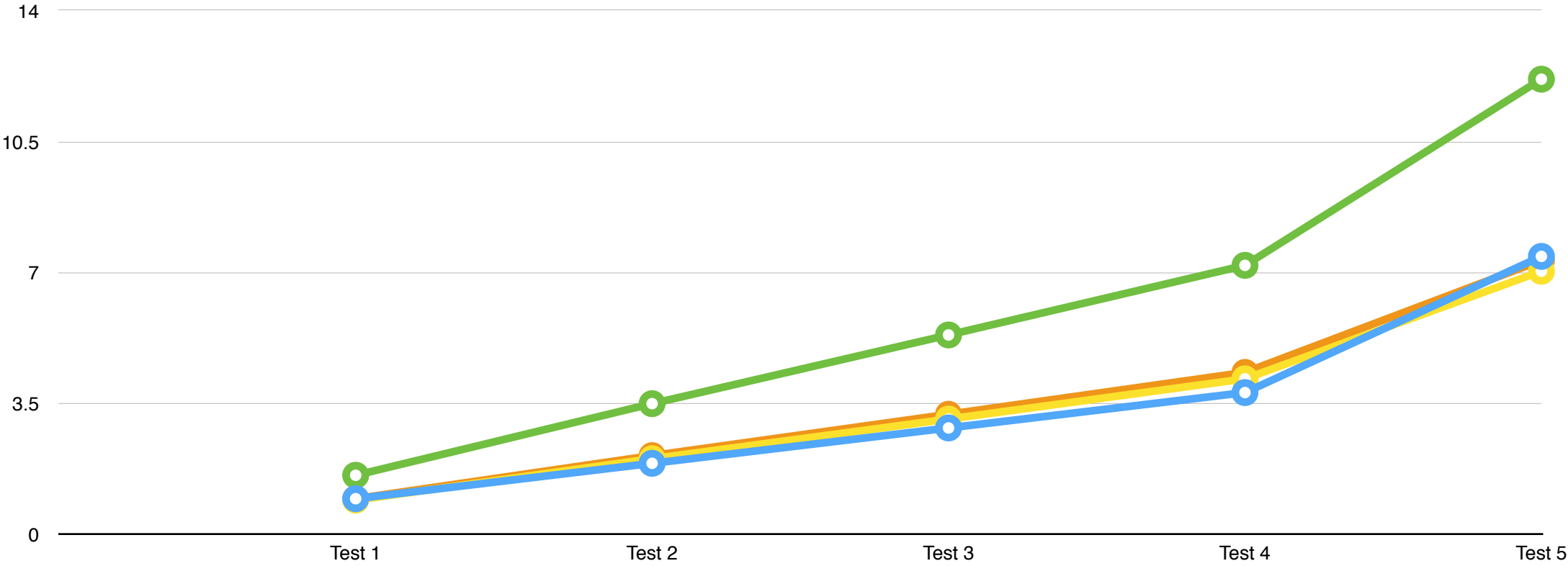


Data with the pump automatic pumping

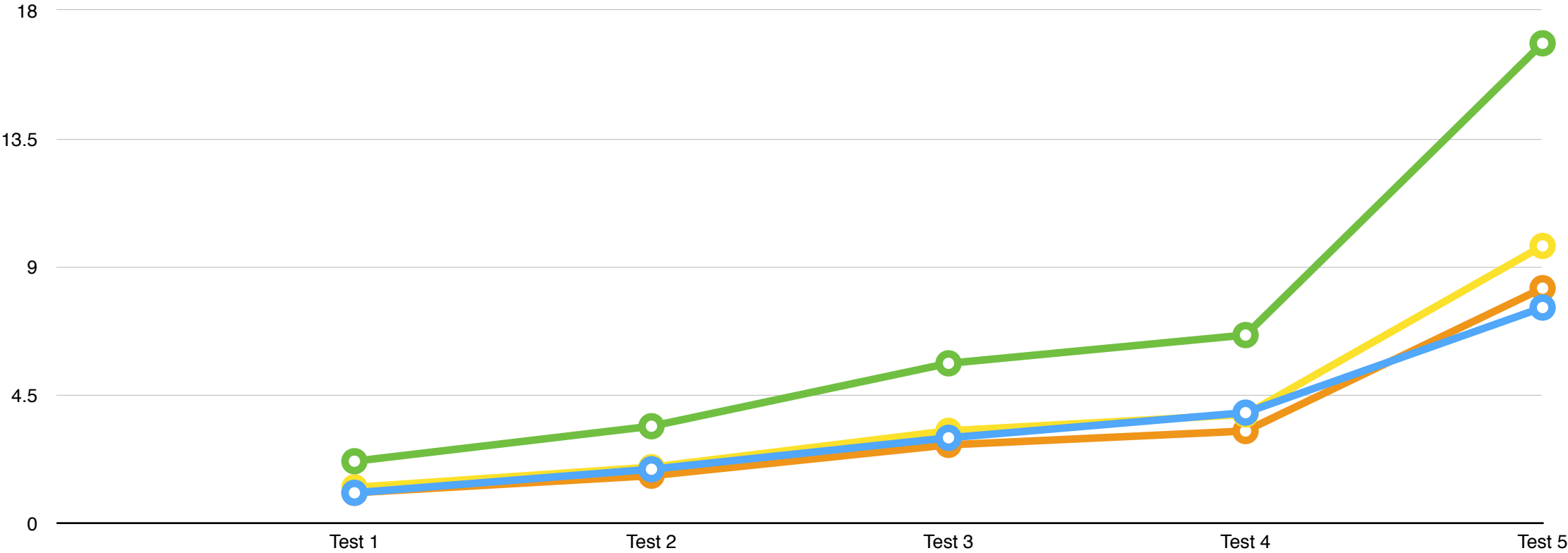
	degress	radians					
Lowest Angle	-18	-0.314159265358979					
Highest Angle	23	0.401425727958696					
Delta	41	0.715584993317675					
			MKII				
			0.467				
Total Angle Estimate	0	0					
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7
Number of upstrokes							
Actual Volume		1.89271	2.83906				
Program Volume		4.748	7.675				
Estimated Volume	0	0	0	0	0	0	0
Adjusted Program Volume		1.75633314397394	2.83906				
Adjusted Estimated Volume							
Program Ratio		2.70335956267215	2.70335956267215				
Estimated Ratio							



Data with Avery pumping							
	degress	radians					
Lowest Angle	-18	-0.314159265358979					
Highest Angle	23	0.401425727958696					
Delta	41	0.715584993317675					
			MKII				
			0.467				
Total Angle Estimate	0	0					
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7
Actual Volume	0.946353	1.89271	2.83906	3.78541	7.428871		
Program Volume	1.573	3.489	5.327	7.189	12.17		
Adjusted Program Volume	0.90879930952381	2.01576655494505	3.07766937179487	4.15343816666667	7.03120635531136		
Avery's Adjusted Program Volume	0.946353	2.09906269357915	3.20484579211697	4.32506784297521	7.32175207247298		
Program Ratio	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598		
Avery's Program Ratio	1.66217045859209	1.66217045859209	1.66217045859209	1.66217045859209	1.66217045859209		

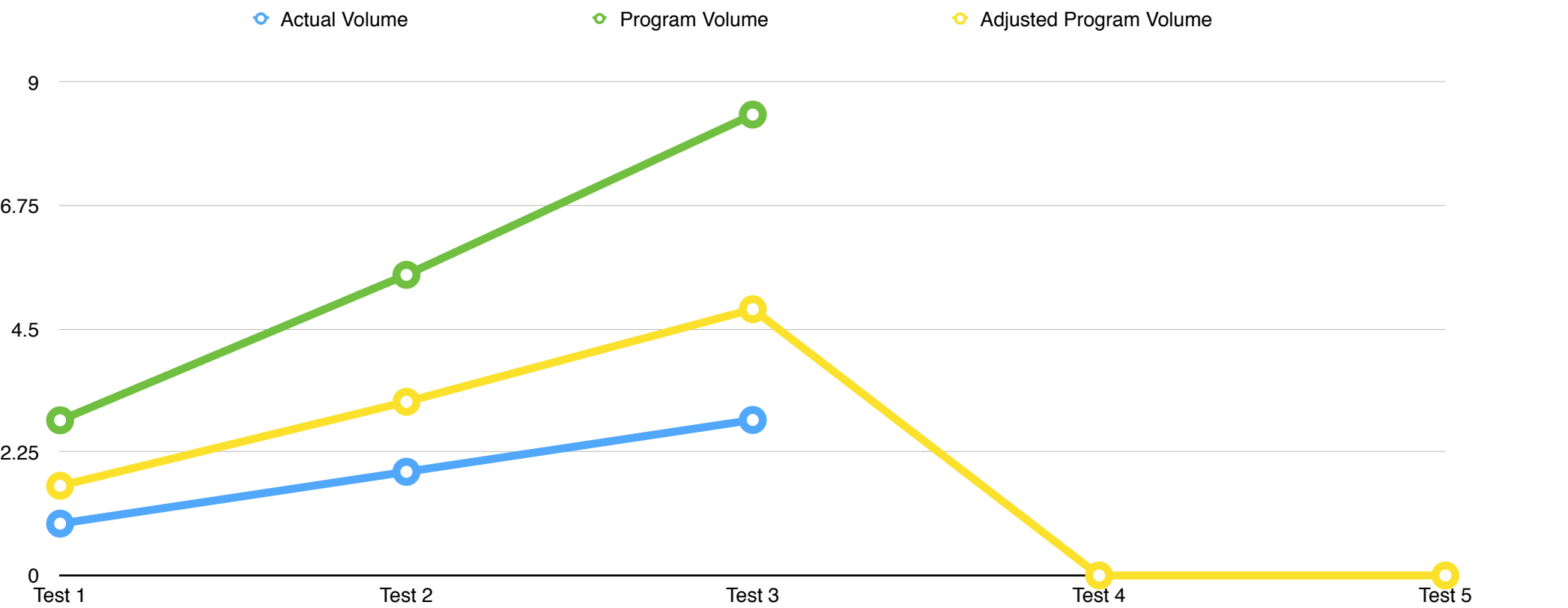


Data with Jacqui pumping							
	degress	radians					
Lowest Angle	-18	-0.314159265358979					
Highest Angle	23	0.401425727958696					
Delta	41	0.715584993317675					
			MKII				
			0.467				
Total Angle Estimate	0	0					
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7
Actual Volume	1.0646471	1.89271	2.9961534	3.88005	7.57082		
Program Volume	2.174	3.403	5.612	6.605	16.85		
Adjusted Program Volume	1.25602650915751	1.96608013369963	3.24232786080586	3.8160327014652	9.73507206959707		
Jacqui's Adjusted Program Volume	1.0646471	1.66651061697332	2.74829784967801	3.23458790041398	8.25174960211592		
Program Ratio	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598		
Jacqui's Program Ratio	2.04199119125953	2.04199119125953	2.04199119125953	2.04199119125953	2.04199119125953		



Data with Avery pumping and half pumps

	degress	radians					
Lowest Angle	-18	-0.314159265358979					
Highest Angle	23	0.401425727958696					
Delta	41	0.715584993317675					
			MKII				
			0.467				
Total Angle Estimate	0	0					
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7
Actual Volume	0.946353	1.89271	2.83906				
Program Volume	2.833	5.489	8.415				
Adjusted Program Volume	1.63676315567766	3.17126472344322	4.86175854395604	0	0		
Program Ratio	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598	1.73085518828598		



Data with Avery pumping and slow half pumps

	degress	radians					
Lowest Angle	-18	-0.314159265358979					
Highest Angle	23	0.401425727958696					
Delta	41	0.715584993317675					
			MKII				
			0.467				
Total Angle Estimate	0	0					
	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7
Actual Volume	0.946353	1.89271	1.5	1.5	1.5	1.5	1.5
Program Volume	1.099	2.048	1.5	1.5	1.5	1.5	1.5
Adjusted Program Volume	0.657007146767741	1.22434088860813	1.5	1.5	1.5	1.5	1.5
Program Ratio	1.67273675089642	1.67273675089642	1.67273675089642	1.67273675089642	1.67273675089642		

