

Starting paramaeters											
	Left		Right								
	x	y	x	y							
Marker	-24.7	0.0	0.0	0.0							
Wheel Diameter	5.6										
Straight Line Experiment			Revolutions	1.5	Travled distance	24.6					
	Left		Right		Validation			Center of Gravity		Theta	
	x	y	x	y	xr - xl	yr-yl	L	x	y	Radians	Degrees
1	-22.5	24.8	2.3	22.5	24.8	-2.3	24.9	-10.1	23.7	-0.09	-5
2	-22.9	24.7	1.8	22.9	24.7	-1.8	24.8	-10.6	23.8	-0.07	-4
3	-25.2	25.1	-0.4	25.2	24.8	0.1	24.8	-12.8	25.2	0.00	0
4	-24.5	25.2	0.3	25.4	24.8	0.2	24.8	-12.1	25.3	0.01	0
5	-25.0	24.9	-0.3	25.5	24.7	0.6	24.7	-12.7	25.2	0.02	1
6	-24.8	25.4	0.0	25.4	24.8	0.0	24.8	-12.4	25.4	0.00	0
7	-23.2	24.7	1.5	23.3	24.7	-1.4	24.7	-10.9	24.0	-0.06	-3
8	-23.8	24.3	1.0	23.3	24.8	-1.0	24.8	-11.4	23.8	-0.04	-2
9	-23.1	24.4	1.7	23.6	24.8	-0.8	24.8	-10.7	24.0	-0.03	-2
10	-22.7	24.1	2.1	22.1	24.8	-2.0	24.9	-10.3	23.1	-0.08	-5
11	-23.6	24.5	1.2	23.4	24.8	-1.1	24.8	-11.2	24.0	-0.04	-3
12	-24.9	24.4	0.0	24.6	24.9	0.2	24.9	-12.5	24.5	0.01	0
13	-23.3	25.5	1.5	23.7	24.8	-1.8	24.9	-10.9	24.6	-0.07	-4
14	-24.0	24.6	0.8	24.0	24.8	-0.6	24.8	-11.6	24.3	-0.02	-1
15	-23.6	24.4	1.2	23.2	24.8	-1.2	24.8	-11.2	23.8	-0.05	-3
16	-23.6	25.1	1.3	23.8	24.9	-1.3	24.9	-11.2	24.5	-0.05	-3
17	-25.4	24.3	-0.6	25.0	24.8	0.7	24.8	-13.0	24.7	0.03	2
18	-22.7	24.9	2.0	22.7	24.7	-2.2	24.8	-10.4	23.8	-0.09	-5
19	-25.3	24.4	-0.4	24.8	24.9	0.4	24.9	-12.9	24.6	0.02	1
20	-24.5	25.3	0.3	24.9	24.8	-0.4	24.8	-12.1	25.1	-0.02	-1
Average	-23.9	24.8	0.9	24.0	24.8	-0.8	24.8	-11.5	24.4	-0.03	-2
Standard Dev.	0.9	0.4	0.9	1.0	0.1	0.9	0.1	0.9	0.6	0.04	2
Right Arc Experiment											
	Left		Right		Validation			Center of Gravity		Theta	
	x	y	x	y	xr - xl	yr-yl	L	x	y	Radians	Degrees
1	-8.3	32.1	4.4	11.4	12.7	-20.7	24.3	-2.0	21.8	-1.02	-58
2	-8.6	31.6	5.3	11.2	13.9	-20.4	24.7	-1.7	21.4	-0.97	-56

3	-9.3	32.4	4.9	12.2	14.2	-20.2	24.7	-2.2	22.3	-0.96	-55
4	-8.8	32.1	5.3	11.6	14.1	-20.5	24.9	-1.8	21.9	-0.97	-55
5	-8.9	32.1	5.1	11.6	14.0	-20.5	24.8	-1.9	21.9	-0.97	-56
6	-8.2	31.9	5.5	11.2	13.7	-20.7	24.8	-1.4	21.6	-0.99	-57
7	-8.0	31.7	5.4	11.0	13.4	-20.7	24.7	-1.3	21.4	-1.00	-57
8	-7.9	31.8	5.6	11.1	13.5	-20.7	24.7	-1.2	21.5	-0.99	-57
9	-9.9	31.9	4.8	12.1	14.7	-19.8	24.7	-2.6	22.0	-0.93	-53
10	-8.1	32.0	5.5	11.3	13.6	-20.7	24.8	-1.3	21.7	-0.99	-57
11	-8.7	32.1	5.0	11.6	13.7	-20.5	24.7	-1.9	21.9	-0.98	-56
12	-8.2	32.1	5.3	11.4	13.5	-20.7	24.7	-1.5	21.8	-0.99	-57
13	-8.2	32.1	5.4	11.3	13.6	-20.8	24.9	-1.4	21.7	-0.99	-57
14	-8.1	31.7	5.4	10.9	13.5	-20.8	24.8	-1.4	21.3	-1.00	-57
15	-8.2	32.1	5.4	11.4	13.6	-20.7	24.8	-1.4	21.8	-0.99	-57
16	-8.4	32.1	5.2	11.4	13.6	-20.7	24.8	-1.6	21.8	-0.99	-57
17	-8.2	32.4	5.2	11.7	13.4	-20.7	24.7	-1.5	22.1	-1.00	-57
18	-8.4	31.9	5.3	11.3	13.7	-20.6	24.7	-1.6	21.6	-0.98	-56
19	-8.6	32.1	5.0	11.3	13.6	-20.8	24.9	-1.8	21.7	-0.99	-57
20	-7.8	32.0	5.4	11.1	13.2	-20.9	24.7	-1.2	21.6	-1.01	-58
Average	-8.4	32.0	5.2	11.4	13.7	-20.6	24.7	-1.6	21.7	-0.99	-56
Standard Dev.	0.5	0.2	0.3	0.3	0.4	0.2	0.1	0.3	0.2	0.02	1
Left Arc Experiment											
	Left		Right		Validation			Center of Gravity		Theta	
	x	y	x	y	xr - xl	yr-yl	L	x	y	Radians	Degrees
1	-30.7	12.1	-15.4	31.6	15.3	19.5	24.8	-23.1	21.9	0.91	52
2	-30.8	11.7	-15.9	31.5	14.9	19.8	24.8	-23.4	21.6	0.93	53
3	-30.9	11.5	-16.1	31.4	14.8	19.9	24.8	-23.5	21.5	0.93	53
4	-30.6	11.7	-15.7	31.5	14.9	19.8	24.8	-23.2	21.6	0.93	53
5	-30.9	11.4	-16.2	31.2	14.7	19.8	24.7	-23.6	21.3	0.93	53
6	-31.0	11.4	-16.5	31.5	14.5	20.1	24.8	-23.8	21.5	0.95	54
7	-30.8	11.5	-16.3	31.6	14.5	20.1	24.8	-23.6	21.6	0.95	54
8	-30.7	11.4	-15.9	31.3	14.8	19.9	24.8	-23.3	21.4	0.93	53
9	-30.7	11.4	-16.1	31.4	14.6	20.0	24.8	-23.4	21.4	0.94	54
10	-31.0	11.5	-16.3	31.6	14.7	20.1	24.9	-23.7	21.6	0.94	54
11	-30.8	11.0	-16.5	31.2	14.3	20.2	24.7	-23.7	21.1	0.95	55
12	-30.8	11.5	-15.9	31.4	14.9	19.9	24.9	-23.4	21.5	0.93	53

13	-30.8	11.4	-16.4	31.6	14.4	20.2	24.8	-23.6	21.5	0.95	55
14	-30.4	11.6	-15.6	31.5	14.8	19.9	24.8	-23.0	21.6	0.93	53
15	-30.8	11.3	-16.3	31.4	14.5	20.1	24.8	-23.6	21.4	0.95	54
16	-30.7	11.4	-16.2	31.5	14.5	20.1	24.8	-23.5	21.5	0.95	54
17	-30.6	11.5	-15.6	31.7	15.0	20.2	25.2	-23.1	21.6	0.93	53
18	-30.8	11.4	-16.5	31.6	14.3	20.2	24.7	-23.7	21.5	0.95	55
19	-30.5	11.7	-15.9	31.5	14.6	19.8	24.6	-23.2	21.6	0.94	54
20	-30.7	12.0	-16.0	31.9	14.7	19.9	24.7	-23.4	22.0	0.93	54
Average	-30.8	11.5	-16.1	31.5	14.7	20.0	24.8	-23.4	21.5	0.94	54
Standard Dev.	0.1	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.01	1