Time (s)	Velocity - X (	Velocity - Y (	Velocity - Total (cm/s)
0	-0.1	6.3	6.3
0.15	-1.4	39.8	39.82
0.3	-1.2	20	20.04
0.45	-2.3	42.4	42.46
0.6	-0.4	47	47
0.75	1.7	54.4	54.43
0.9	0.8	60.1	60.11
1.05	0.6	56.9	56.9
1.2	-0.8	57.9	57.91
1.35	-0.8	44.4	44.41
1.5	1	15.5	15.53
1.65	22.9	21.9	31.69
1.8	7.5	3.1	8.12
1.95	0.5	-23.6	23.61
2.1	-5.5	-28.9	29.42
2.25	-4.4	-38.4	38.65
2.4	-0.5	-40.1	40.1
2.55	0.8	-52.8	52.81
2.7	0.9	-54.6	54.61
2.85	-1.2	-50	50.01
3	11.9	-72.9	73.86
3.15	23.9	-48.3	53.89
3.3	37.8	-23.9	44.72
3.45	37.7	-3.3	37.84
3.6	49.8	9.2	50.64
3.75	60.1	7.1	60.52
3.9	48.4	-3.5	48.53
4.05	67.1	-5.2	67.3
4.2	65	-1	65.01
4.35	62.1	3.8	62.22
4.5	39.8	1.2	39.82
4.65	14.2	21.2	25.52
4.8	-15.6	-4.2	16.16
4.95	-33	9.4	34.31
5.1	-22.9	6.6	23.83
5.25	-28	18.2	33.4
5.4	-31.7	17.1	36.02
5.55	-38.8	1.8	38.84
5.7	-57.1	-12.4	58.43
5.85	-37.6	-8.5	38.55
6	-19.1	0.4	19.1
6.15	-47.6	-6.3	48.02

6.3	-28.4	-9.3	29.88
6.45	7	-30.8	31.59
6.6	11.6	-52.5	53.77
6.75	6.9	-43.9	44.44
6.9	-3.4	-55.8	55.9
7.05	-7.2	-65.3	65.7
7.2	-2	-59.6	59.63
7.35	1.4	-67.4	67.41
7.5	1.5	-14.1	14.18
7.65	-16.2	-34.2	37.84
7.8	-7	-1.9	7.25
7.95	-0.1	9.2	9.2
8.1	7.3	42.1	42.73
8.25	8.1	37.6	38.46
8.4	1.1	46.7	46.71
8.55	-2.8	56.9	56.97
8.7	-1	68.9	68.91
8.85	2.4	61.8	61.85
9	1.3	32	32.03
9.15	-16.4	56.9	59.22
9.3	-27.2	35.9	45.04
9.45	-43.7	6.6	44.2
9.6	-45	-9.1	45.91
9.75	-51	-7.6	51.56
9.9	-59.5	3	59.58
10.05	-58.1	10.3	59.01
10.2	-52.4	2.6	52.46
10.35	-65.6	-1.3	65.61
10.5	-41.9	-1.5	41.93
10.65	-6.3	2.8	6.89
10.8	-12.6	1.3	12.67
10.95	-23.3	-1.4	23.34
11.1	29.2	-0.3	29.2
11.25	40.9	-1.6	40.93
11.4	44.4	-2.8	44.49
11.55	42.6	0	42.6
11.7	51.6	-1.2	51.61
11.86	52.4	-0.6	52.4
12	63.2	-2.8	63.26
12.15	4	2.6	4.77
12.3	30.8	0.6	30.81
12.45	34.2	-0.6	34.21
12.6	12.5	-1.4	12.58

12.75	11.1	-1.3	11.18
12.9	2.3	1.6	2.8
13.05	-0.9	3	3.13
13.2	-1.3	0.5	1.39
13.35	1.4	-3.1	3.4
13.5	1.2	-2.8	3.05
13.65	0.1	0.8	0.81
13.8	-1	3.2	3.35
13.95	0.1	1.7	1.7
14.1	2	-2.1	2.9
14.25	0.6	-2.7	2.77
14.4	-1.3	0.2	1.32
14.55	-1.2	2.8	3.05
14.7	1.4	1.7	2.2
14.85	1.7	-1.3	2.14
15	0.5	-2.6	2.65
15.15	-1.7	-0.6	1.8
15.3	-1.4	1.7	2.2
15.45	0.9	2.1	2.28
15.6	2.7	0	2.7
15.75	1.3	-1.9	2.3
15.9	-2.1	-0.8	2.25
16.05	-2.4	0.2	2.41
16.2	0.5	1.1	1.21
16.35	3.1	0	3.1
16.5	1.4	-0.1	1.4
16.65	-1.7	-0.7	1.84
16.8	-2.2	0.5	2.26
16.95	-0.5	-0.3	0.58
17.1	0.9	-0.1	0.91
17.25	0.9	0.8	1.2
17.4	-0.8	0.6	1
17.55	-0.3	0	0.3
17.7	0.6	-0.1	0.61
17.85	0.6	-0.9	1.08
18	-0.6	-0.2	0.63
18.15	-0.2	0	0.2
18.3	0.1	0	0.1
18.45	0.6	0.2	0.63
18.6	0	0.8	0.8
18.75	-0.4	-0.1	0.41
18.9	2	0.1	2
19.05	0	-0.5	0.5

19.2	0	-0.6	0.6
19.35	-0.4	0.1	0.41
19.5	-0.2	-0.3	0.36
19.65	-0.6	0.2	0.63
19.8	0.5	0	0.5
19.95	0	-0.2	0.2
20.1	-0.3	0.5	0.58
20.25	0	-0.1	0.1
20.4	0.4	-0.2	0.45
20.55	-0.3	0.2	0.36
20.7	0	-0.1	0.1
20.85	0.3	0.3	0.42
21	-0.3	-0.2	0.36
21.15	0	0.2	0.2
21.3	0.1	-0.2	0.22
21.45	-0.2	0.3	0.36
21.6	0.1	-0.2	0.22
21.75	0	0.1	0.1
21.9	0	-0.1	0.1
22.05	0.2	0	0.2
22.2	-0.2	0	0.2
22.35	0.2	0	0.2
22.5	-0.1	0.1	0.14
22.65	0.1	-0.1	0.14
22.8	-0.1	0	0.1
22.95	0.1	0	0.1
23.1	0	0	0
23.25	0	0	0
23.4	0	0	0
23.55	0	0	0
23.7	0	0	0
23.85	0	0	0
24	0	0	0
24.16	0	0	0
24.31	0	0	0
24.46	0	0	0
24.61	1.8	0	1.8
24.76	-0.3	0	0.3
24.91	0.2	0	0.2
25.06	-0.1	0.2	0.22
25.21	0.1	-0.1	0.14
25.36	0	-0.1	0.1
25.51	0	0.1	0.1

25.66	0.1	0	0.1
25.81	-0.1	0	0.1
25.96	0	0	0
26.11	0	0	0
26.26	-0.1	0	0.1
26.41	0	0	0
26.56	0	0	0
26.71	0	0	0
26.86	0	0	0
27.01	0	0	0
27.16	0	0	0
27.31	0	0	0
27.46	0	0	0
27.61	0	0	0
27.76	0	0	0
27.91	0	0	0
28.06	0	0	0
28.21	0	0	0
28.36	0	0	0
28.51	0	0	0
28.66	0	0	0
28.81	0	0	0
28.96	0	0	0
29.11	0	0	0
29.26	0	0	0
29.41	0	0	0
29.56	0	0	0
29.71	0	0	0
29.86	0	0	0
30.02	0	0	0