

Table 2 A sample test data showing the heading angle and lateral displacement

Time (sec)	Heading angle (degrees)	Lateral Displacement (feet)
1	18.1626	2.97236
2	8.07484	1.33942
3	-2.77933	-0.462371
4	7.067	1.17315
5	-0.04038	-0.00672027
6	7.09555	1.17787
7	-1.51551	-0.25219
8	-4.963	-0.82494
9	-12.7655	-2.10698
10	1.28358	0.213603
11	-5.8179	-0.966587
12	0.787401	0.13104
13	7.23265	1.20051
14	-1.80271	-0.299968
15	-5.85942	-0.97346
16	0.541994	0.0902005
17	14.1561	2.33205
18	1.65034	0.274622