|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Velocity of robot  (m/s) | Run time  (s) | Expected  Distance in x  (m) | Expected  Distance in y  (m) | Distance  travelled  in x  (m) | Distance  travelled  in y  (m) | Error  (%) |
|  |  |  |  |  |  |  |
| 0.25 | 5 | 1.25 | 0 | 1.2392 | 0.0022 |  |
| 0.25 | 10 | 2.5 | 0 | 2.5030 | 0.0034 |  |
| 0.25 | 20 | 5 | 0 | 5.0427 | 0.0063 |  |
| 0.25 | 40 | 10 | 0 | 10.0856 | 0.0207 |  |
|  |  |  |  |  |  |  |
| 0.5 | 5 | 2.5 | 0 | 2.3798 | 0.0113 |  |
| 0.5 | 10 | 5 | 0 | 4.9315 | 0.0207 |  |
| 0.5 | 20 | 10 | 0 | 9.9601 | 0.0429 |  |
| 0.5 | 40 | 20 | 0 | 20.0669 | 0.0967 |  |
|  |  |  |  |  |  |  |
| 1 | 5 | 5 | 0 | 4.3699 | 0.0656 |  |
| 1 | 10 | 10 | 0 | 9.3772 | 0.1465 |  |
| 1 | 20 | 20 | 0 | 19.5432 | 0.3125 |  |
| 1 | 40 | 40 | 0 | 39.8253 | 0.6516 |  |
|  |  |  |  |  |  |  |
| 2 | 5 | 10 | 0 | 7.1467 | 0.4722 |  |
| 2 | 10 | 20 | 0 | 17.3252 | 1.3731 |  |
| 2 | 15 | 30 | 0 | 27.4027 | 2.2683 |  |
| 2 | 20 | 40 | 0 | 37.2786 | 3.1449 |  |