Calibrate function :

C =

|  |  |  |  |
| --- | --- | --- | --- |
| 3.95911803 | -1.94599712 | -6.12758649 | 321.383727 |
| -0.241894531 | -7.29580987 | 1.13382502 | 334.407807 |
| -0.00496209888 | -0.00323446031 | -0.00573008512 | 1 |

K =

|  |  |  |
| --- | --- | --- |
| 858.29615135 | 7.38357266 | 320.39071333 |
| 0 | 854.92752315 | 269.46301311 |
| 0 | 0 | 1 |

R =

|  |  |  |
| --- | --- | --- |
| 0.78313831 | -0.12076515 | -0.61000833 |
| 0.15544422 | -0.91180101 | 0.38007369 |
| -0.60210587 | -0.39247254 | -0.69529406 |

t =

|  |  |  |
| --- | --- | --- |
| 71.57942721 | 56.03508074 | 80.90151372 |

5.

Focal length – fx, fy = 858.29615135, 854.92752315

Pitch Angle (in radians) = 0.6461360515409651

Pitch Angle (in degrees) = 37.020868744544735