Algorithm 2 求解地理位置

Input: G: $Fs', Ls', Time$ ▷ 输入通过附件数据所求得的方位角，影长和时间

Output: P: [l w j] ▷ 影长，纬度，经度

function RoughTraversal
  $L = [0, 10]$
  $W = [-90, 90]$
  $J = [-180, 180]$
  for each l in L step $= 1$ **do**
    for each w in W step $= 10$ **do**
      for each j in J step $= 10$ **do**
        for each t in $Time$ **do**
          Ls(i) $= \mathrm{l}/\tan(\theta_H)$
          Fs(i) $= arccos((sin(C) - \sin(\theta_H) * sin(w))/(cos(\theta_H) * cos(w)))$
        end for
        FsError $= \frac{1}{20} * \sum_{i=1}^{20} (Fs(i) - Fs'(i))^2$
        LsError $= \frac{1}{21} * \sum_{j=1}^{21} (Ls(j) - Ls'(j))^2$
        Error $= 0.6 * FsError + 0.4 * LsError$ ▷ 误差
        if $Error < \delta$ **then**
          P =[l w j] ▷ 误差最小的杆长，纬度和经度数组
        end if
      end for
    end for
  end for
  return P
end function