On the set of standard Young tableaux $SSTY(\lambda)$, there is a bijection called promotion first defined by Schützenberger. Rrendon Rhoades recently showed that for $\lambda$ being rectangular shape, promotion acting on $SSYT(\lambda)$ exhibits the cyclic sieving phenomenon (CSP). As a result, the complete cycle structure of the action is recovered. In this paper, we report a partial solution to the problem where $\lambda$ is the staircase shape, and conjecture the realization of CSP polynomial as a product of cyclotomic polynomials. (Received September 23, 2009)