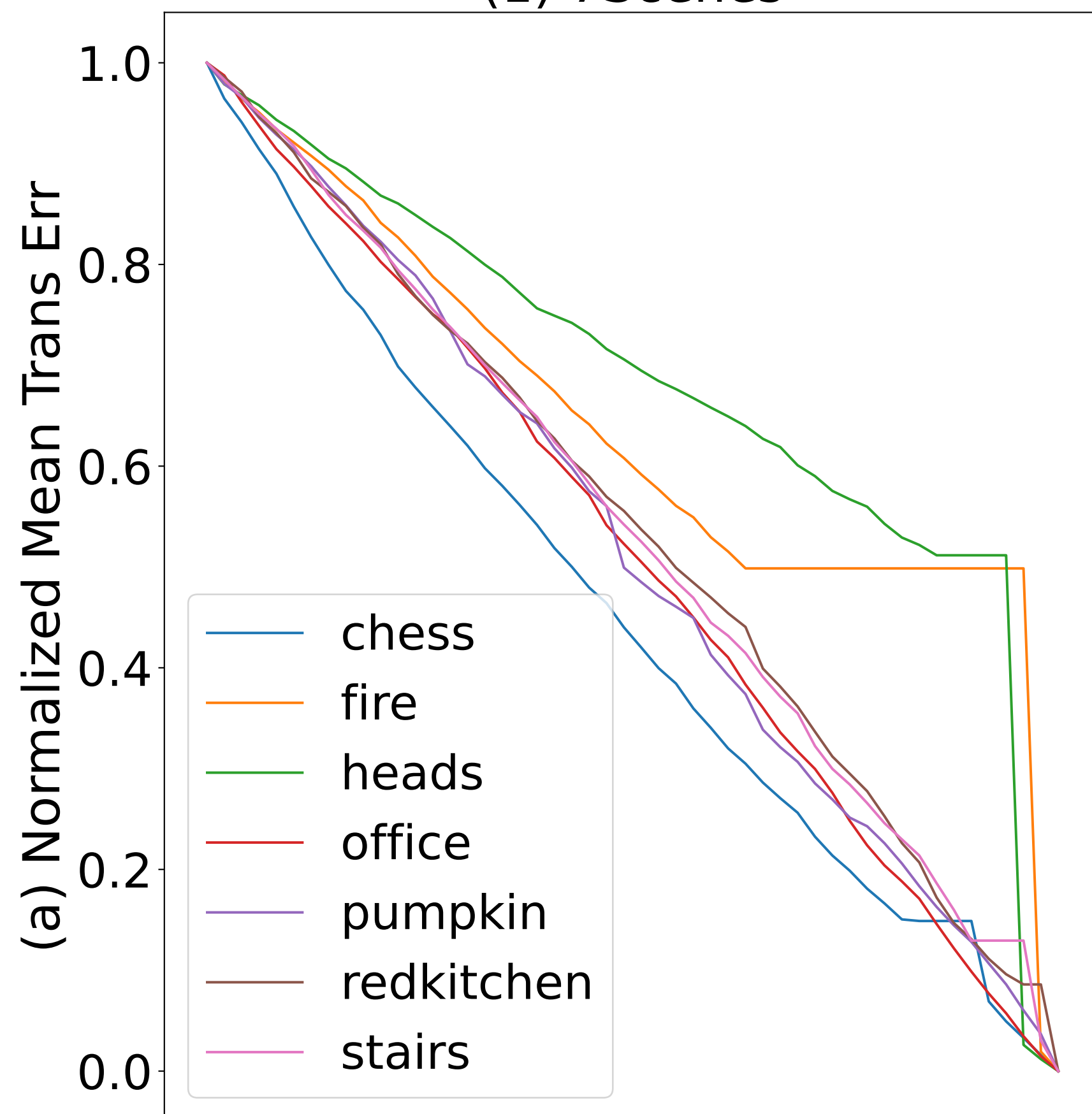
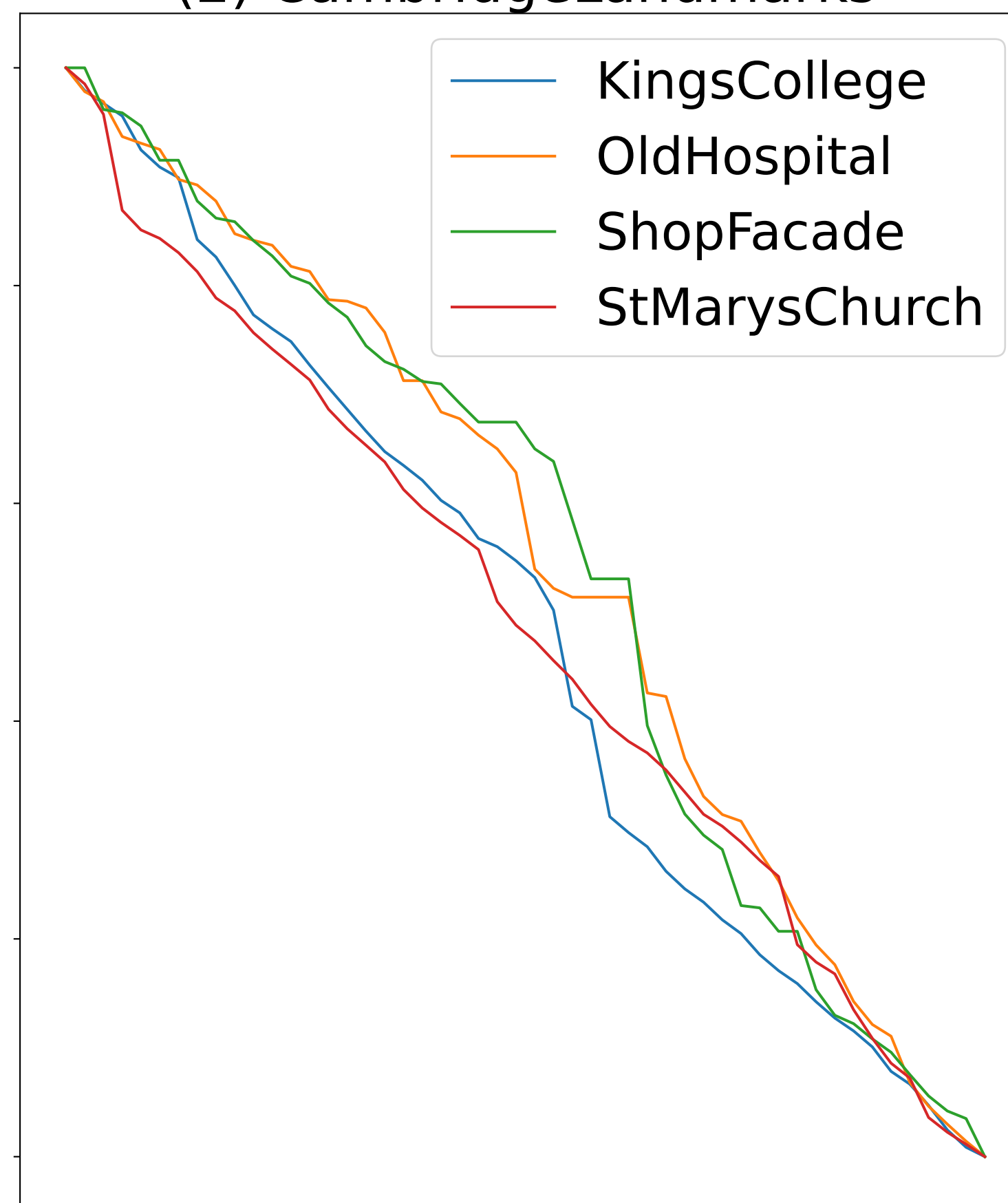


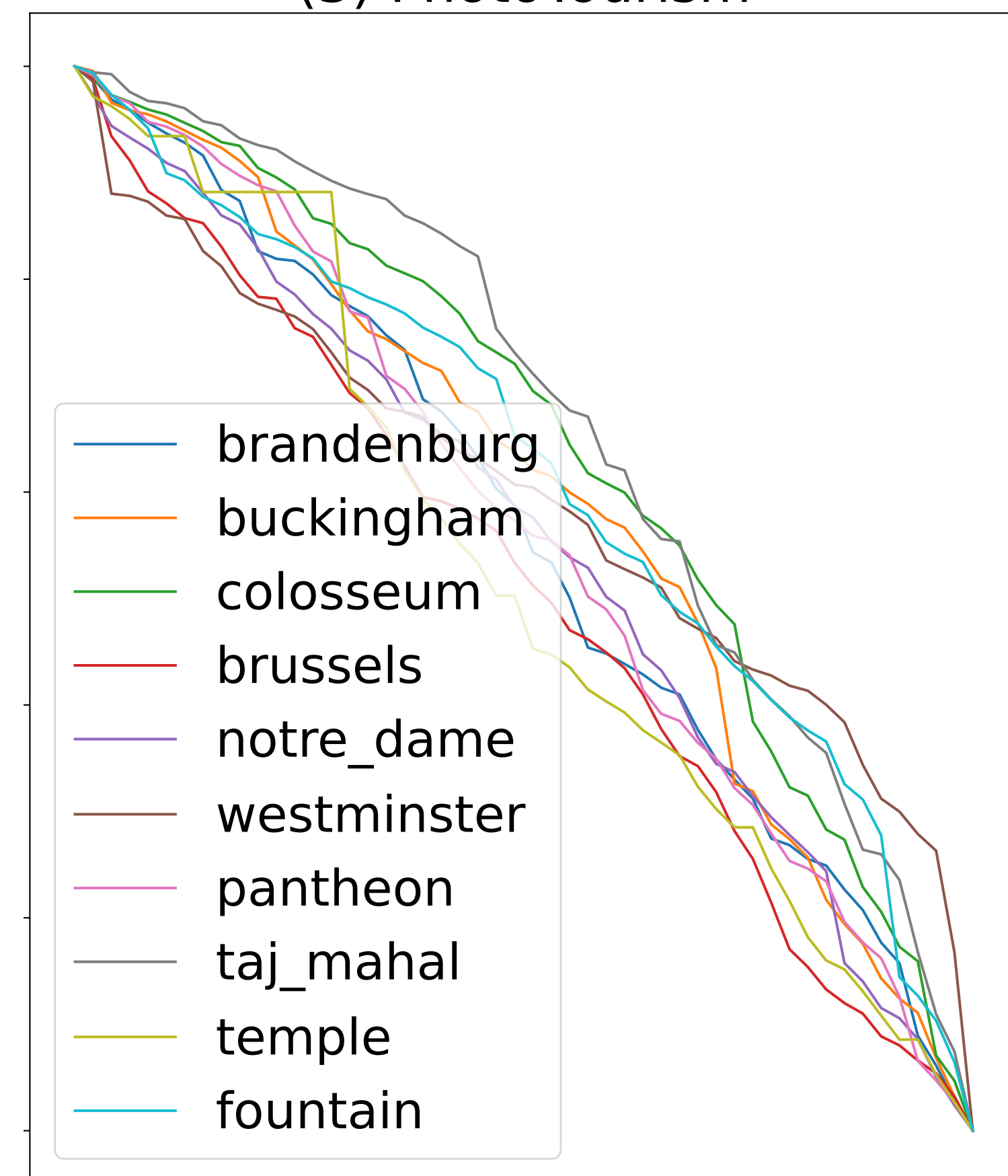
(1) 7Scenes



(2) CambridgeLandmarks



(3) PhotoTourism



(b) Normalized Mean Rot Err

