A Corner Plot

A surveying company was hired to find the area of a parcel of land. An employee, sent out to measure the lengths of each of the sides, reported that the sides were 200 feet, 300 feet, 400 feet and 500 feet in length but did not report the order in which the sides connect. The head surveyor, Ray Deann, knew that this was not enough information to find the area, so he went to talk to the employee who made the measurements. Ray found out that the 300 foot side and the 400 foot side meet to form a right angle. This gave him enough information to find the area. Now it is your turn to find the area. Round your answer to the nearest square foot.