Improvement from the beam pipe enlargement

From A. Camsonne Thesis (Background studies for Hall A DVCS experiment).
By enlarging the beam pipe exit from standard 2 inch to 6 inch the production of secondary particles downstream the target is reduced. From the figure one can see that the angle where matter can interact increases from 5 degrees to 14 degrees. This reduces greatly the number of electrons that can interact with the beam pipe.