

The extent of the northeast edge motion was estimated using the Camera 3 video frame in Figure 5–206, at which time the top of the building had descended about seven stories. The two red lines on the right trace the west roofline and the southwest edge of WTC 7. The red line at the left is parallel to the west roofline and passes through the top of the northeast corner of the descending roofline. A geometric calculation was performed, involving the angle between these two lines, the dimensions of the building, the distance between the camera and the building, and the viewing angles of the northeast and southwest corners. The calculation led to an estimate that, at this point in the collapse, the top of the northeast corner roofline was displaced $11 \text{ m} \pm 3 \text{ m}$ from its original footprint. In combination with observations from Figure 5–204, it is possible to determine that the motion was primarily due north.



Figure 5–206. Heavily processed difference frame from the camera 3 video, used to estimate the lateral distance the northeast corner of WTC 7 moved from its original footprint during the collapse.

It was recorded 10.3 s after the east penthouse began to move down.