Figure 27 shows the percentages of malfunction-turn impacts in 5° sectors for no breakup and for breakup qα's of 20,000, 10,000, and 5,000 deg-lb/ft^2. For B = 1,000, theoretical Mode-5 impact distributions are also plotted in the figure using best-fit values of A. This value of B was chosen since it is currently used by RTI in making launch-area risk studies for 45 SW/SE. Within the sectors from ±60° to ±180°, where most population centers are located, data fits are reasonably good. As seen in the next figure, the divergence for the no-breakup case can be greatly reduced by selecting other values for B and A.

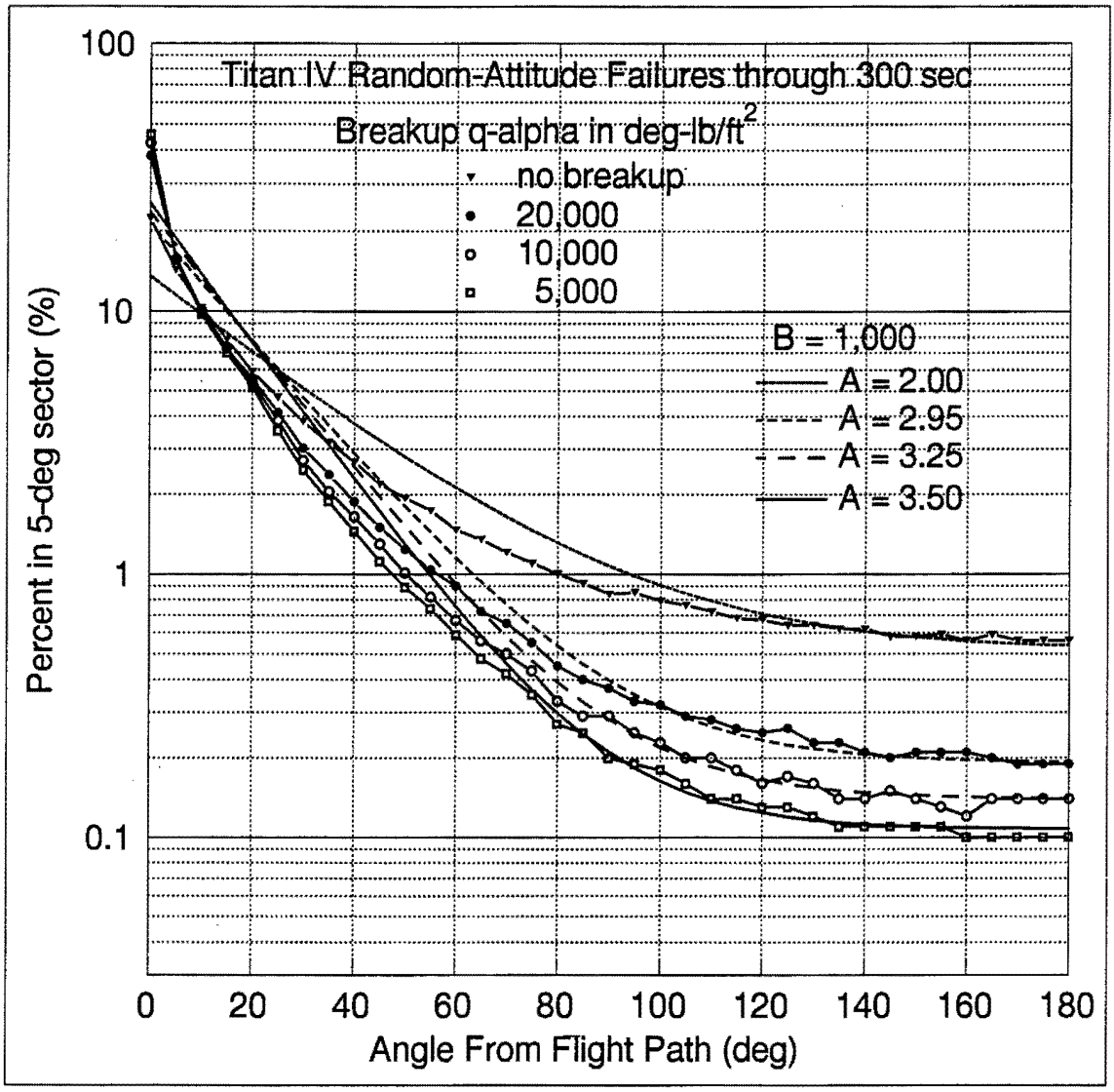

Figure 27. Titan Simulation Results with B = 1,000