Figure 24 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 impacts are also plotted 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 the 45th Space Wing. In the sectors from ±80° to ±180°, where most of the population centers are located, fairly good data fits were possible for all breakup qα's except 5,000 deg-lb/ft^2. No value of A could be found to produce a good fit with B = 1,000. The bottom plot in Figure 25 shows that an excellent fit between malfunction-turn and theoretical data is possible for qα = 5,000 deg-lb/ft^2 if a different choice of B is made.

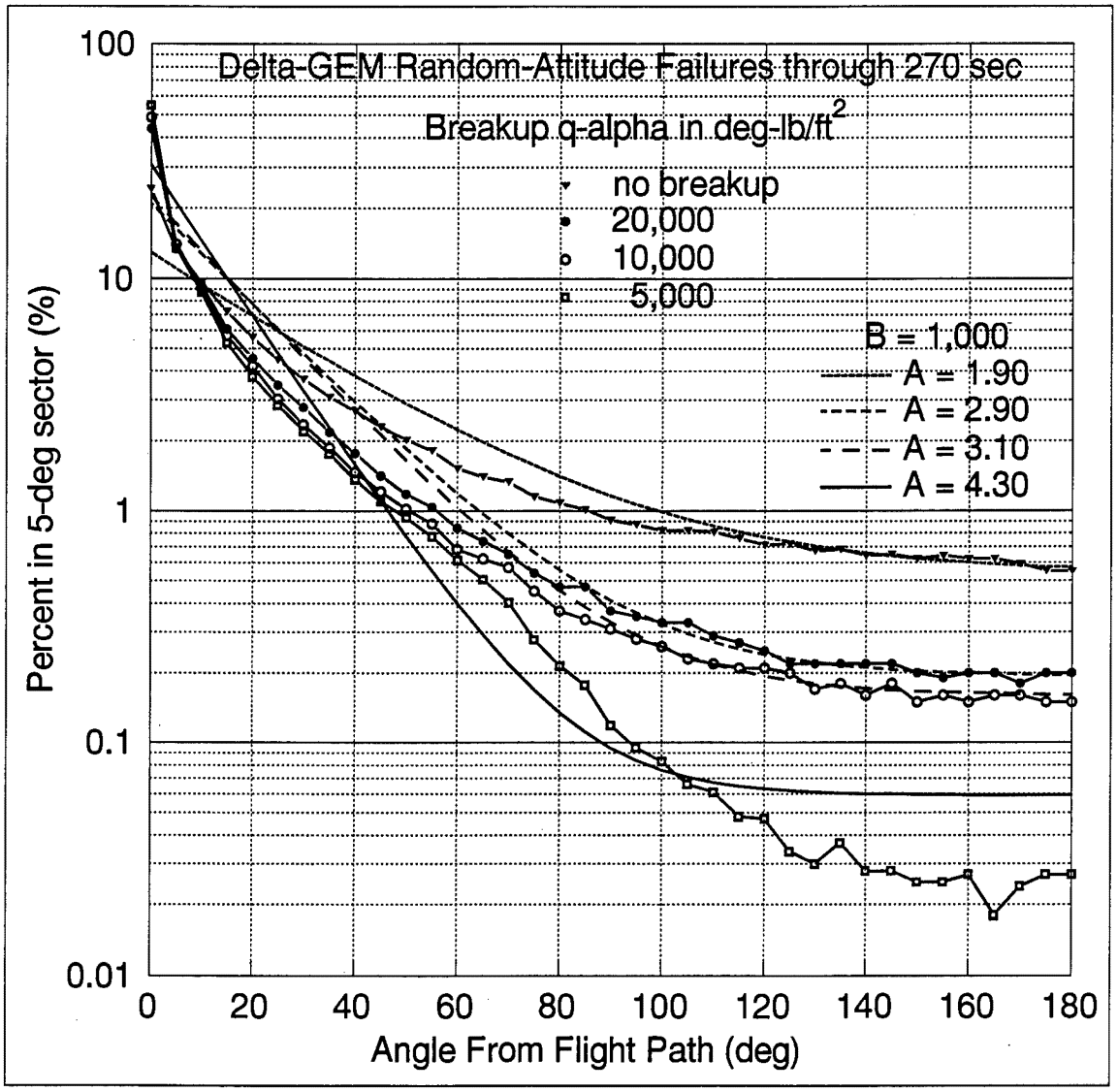

Figure 24. Delta-GEM Simulation Results with B = 1,000