



Figure 6 -- Rose diagram showing trends of magnetic anomalies over the Colorado mineral belt. Linear trends of aeromagnetic anomalies or alignments of their edges were determined by statistically analyzing the orientation of aeromagnetic contours. The orientations were determined by passing a small window over a grid of aeromagnetic data and calculating the normal to the horizontal gradient at each grid point (Grauch, 1988). The number of grid points with orientations averaged at 5 degree increments were plotted as rose diagrams. The aeromagnetic data for the trend of the mineral belt was extracted from a grid of aeromagnetic data that covers the entire state of Colorado (Oshetski and Kucks, 2000).