

Full Vector Ants

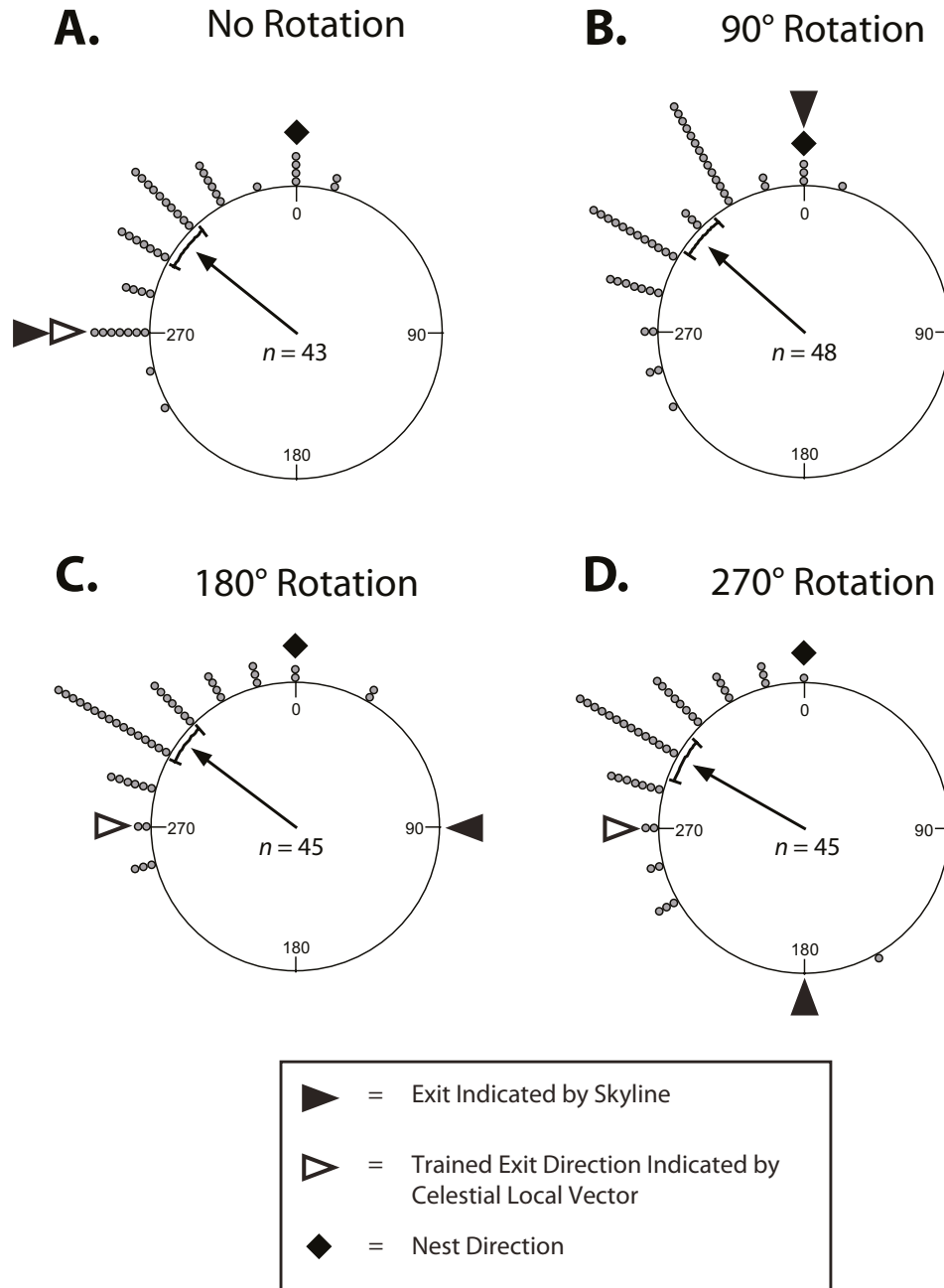


Fig. S1. Full-vector ant directional bearings for each test in Experiment 1. Grey circles indicate ants' directional bearings after crossing a marked goniometer line 30cm from a central release location. Open triangular markers indicate the nest direction. Black diamond markers indicates the trained exit direction of the arena according to a learned route (celestial local vector). Closed triangular markers indicate the exit direction according to ants' view-based navigational system (terrestrial panorama). Headers above each circular plot indicate the degree the testing arena was rotated relative to the orientation of the training arena. The 95% confidence interval of the mean is displayed as a curved marker on the inside of the circular plot.

Table S1. Mean heading direction and scatter of full-vector ants in each arena

Arena rotation	Mean heading direction	Circular SD (scatter)
0 deg	308.76 deg	0.15
90 deg	311.61 deg	0.16
180 deg	307.29 deg	0.13
270 deg	299.60 deg	0.15
