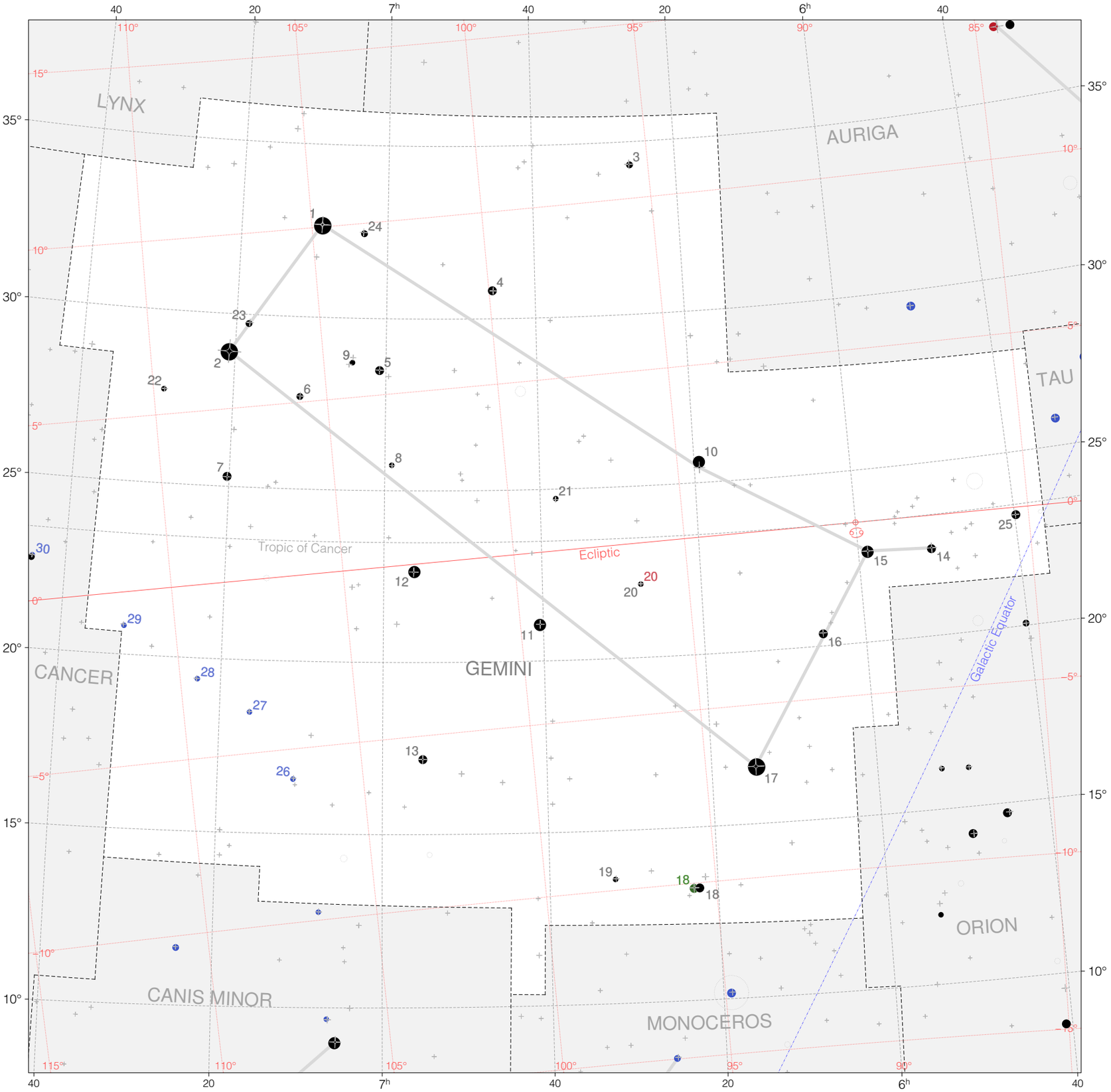Tycho Stars in Gemini