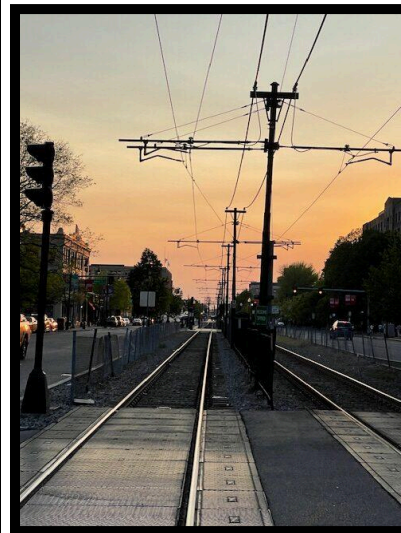
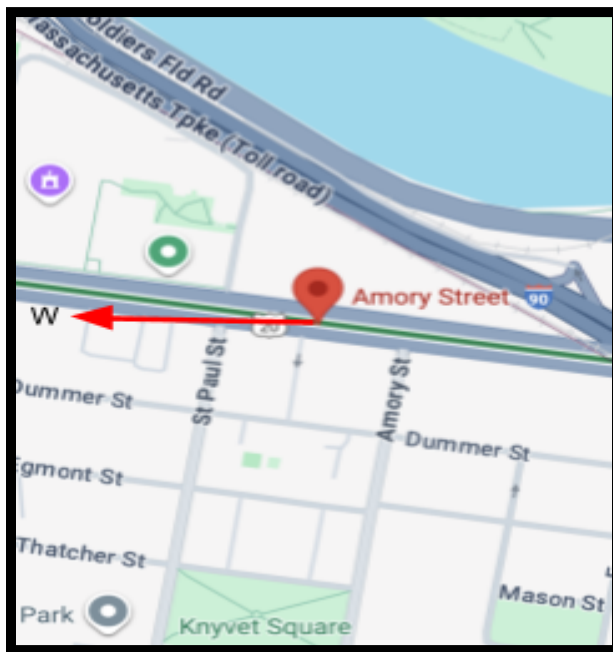


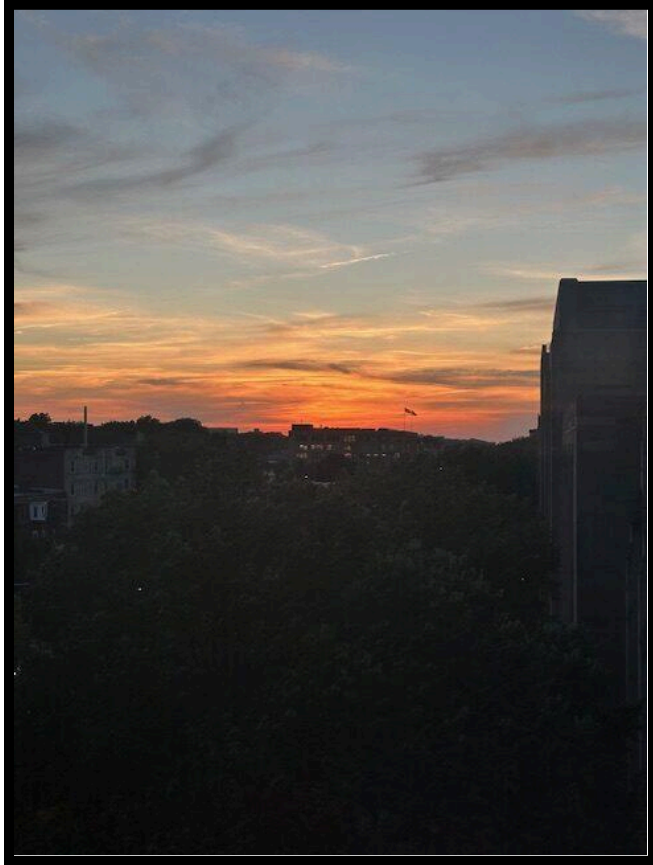
Experimental Procedure:

In the month of September, I observed the sunset from two vantage points on Boston University's Campus. The first was along the Green Line tracks near the CDS building, providing a clear westward alignment; the second was from an elevated position within CDS to confirm orientation and timing. I used a compass app on my phone to determine the direction of the sunset relative to true west, and recorded both the approximate coordinates and compared observed sunset time vs calculated sunset time.



Data Processing and Mapping:

Using the Apple maps, I plotted my viewing location and approximate line of sight towards the western horizon. The sun appeared to set almost directly due west, aligning closely with the direction of the train tracks and the map's westward axis. I believe this correspondence to strengthen my confidence in these findings as it reinforces the accuracy of my position data and demonstrates the equinox's hallmark of balanced solar alignment with Earth's equator.



Reflection:

While I'd like to believe these findings to be accurate, this is simply not the case. Obviously, some error is due from horizon obstructions. More specifically, when building made the sun seem like it was setting prior than its true astronomical time. . If I were to repeat this experiment, I would take sequential photographs before and after the predicted sunset, note compass bearings in a more precise manner, and ideally find an elevated or unobstructed location. Overall, observing this phenomenon firsthand deepened my appreciation for the astronomical balance of the equinox and its visible harmony between celestial motion and terrestrial perspective.