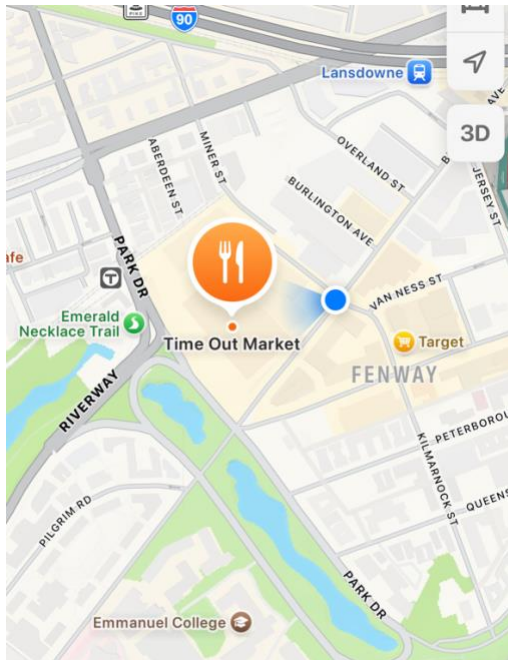


Cooper Cohen
IN 250 A1
Autumn Equinox
9/29/2025

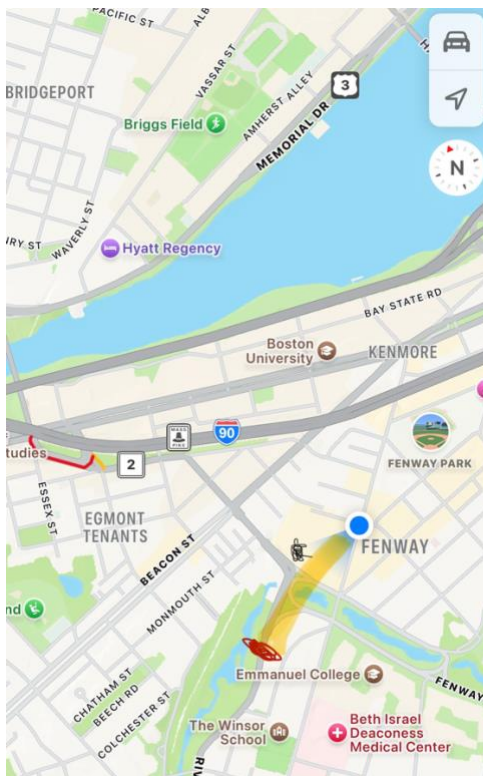
For the 2025 Autumn Equinox, I documented different angles of the sunset helping me get to the final data for the equinox. To start, I observed the sunset setting on Commonwealth Avenue by the BU Fitrec.



This photo was taken in the second week of data collection and was not perfect. There were trees obstructing the sunset and not a full view of the horizon due to hills and my perspective. I took this information to prepare for the next week. In week three, I decided to use the angle from my apartment. Although there is a building that can hurt the view of the full sunset, I would be higher up potentially leaving me with a better view of the horizon. This allowed me to view the sunset closer to the actual setting time as opposed to before.



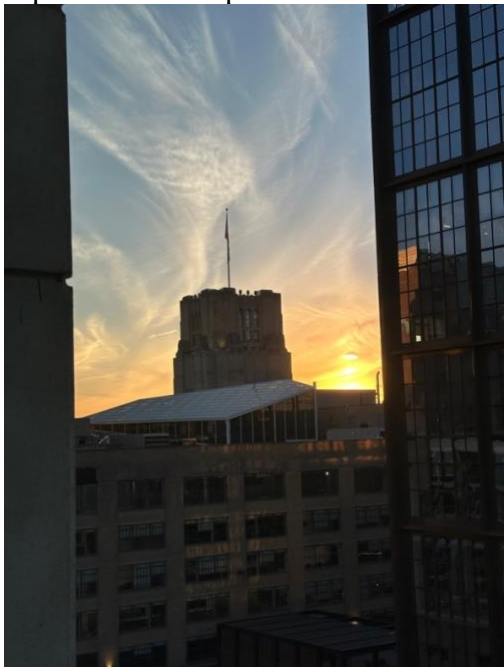
This photo shows my angle in Fenway, looking toward TimeOut market. This angle is almost exactly due west, 273 degrees, whereas on Commonwealth Avenue, I was limited to the streets direction which is more north. Finally, for the equinox, I mapped out my angle, factoring into it the fact that the sun would be slightly behind another building when setting. Slightly before setting, I would be able to document the position of the sun as well as later into setting. Below is my mapping of the angle where the sun and building were before moving behind the tower.



This include my view sight, and angle on the compass in the top corner, although I mapped it on a compass as well to ensure my view was due west.



Here is my documentation of the final sunset. As you can see the sun moved to the right of the tower by Timeout Market, allowing me to see the sun again before disappearing. The angle was very important to ensure I observed the setting, roughly 12 minutes before the sunset time. I captured another photo later into the sun set, once it was no longer visible.



I believe my results are relatively accurate with my height and angle of observation; however, they are not perfect. If I were going to conduct this experiment again, I would want to position myself where I would be able to fully observe the sunset with a clearer horizon. In addition to this, I would want to have not changed my observation point, and instead chose one great location, and capture the sunset throughout the weeks from the same location. With this, I would be able to better distinguish angles and changes in the sunset leading up to and on the Autumn Equinox.