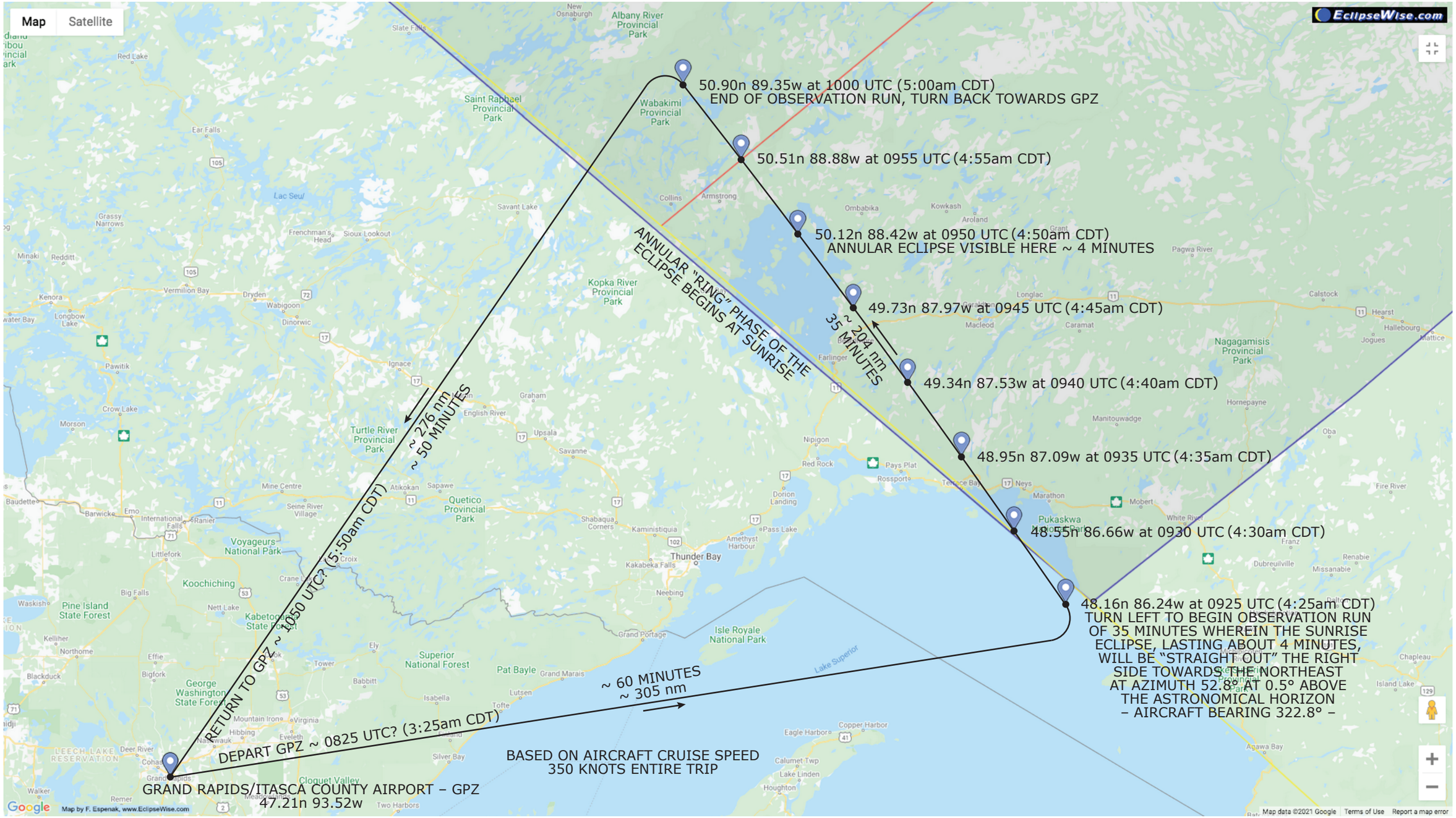
EclipseWise.com
Map
Satellite
50.90n 89.35w at 1000 UTC (5:00am CDT)
END OF OBSERVATION RUN, TURN BACK TOWARDS GPZ
50.51n 88.88w at 0955 UTC (4:55am CDT)
50.12n 88.42w at 0950 UTC (4:50am CDT)
ANNULAR ECLIPSE VISIBLE HERE ~ 4 MINUTES
49.73n 87.97w at 0945 UTC (4:45am CDT)
49.34n 87.53w at 0940 UTC (4:40am CDT)
48.95n 87.09w at 0935 UTC (4:35am CDT)
48.55n 86.66w at 0930 UTC (4:30am CDT)
48.16n 86.24w at 0925 UTC (4:25am CDT)
TURN LEFT TO BEGIN OBSERVATION RUN
OF 35 MINUTES WHEREIN THE SUNRISE
ECLIPSE, LASTING ABOUT 4 MINUTES,
WILL BE "STRAIGHT OUT" THE RIGHT
SIDE TOWARDS THE NORTHEAST
AT AZIMUTH 52.8° AT 0.5° ABOVE
THE ASTRONOMICAL HORIZON
– AIRCRAFT BEARING 322.8° –
ANNULAR "RING" PHASE OF THE
ECLIPSE BEGINS AT SUNRISE
~ 204 nm
35 MINUTES
~ 276 nm
~ 50 MINUTES
RETURN TO GPZ ~ 1050 UTC? (5:50am CDT)
~ 60 MINUTES
~ 305 nm
DEPART GPZ ~ 0825 UTC? (3:25am CDT)
BASED ON AIRCRAFT CRUISE SPEED
350 KNOTS ENTIRE TRIP
GRAND RAPIDS/ITASCA COUNTY AIRPORT – GPZ
47.21n 93.52w
Map by F. Espenak, www.EclipseWise.com
Map data ©2021 Google
Terms of Use
Report a map error