

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



CEN22FA424

METEOROLOGY

Specialist's Factual Report

November 3, 2022

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A. ACCIDENT

Location: Longmont, Colorado

Date: September 17, 2022

Time: 0853 mountain daylight time (1453 UTC¹)

Aircraft: Type - Cessna 172S; Registration - N2117Y

B. METEOROLOGY INVESTIGATOR

Mike Richards

Senior Meteorologist

Office of Aviation Safety

Operational Factors Division (AS-30)

National Transportation Safety Board

C. DETAILS OF THE INVESTIGATION

The National Transportation Safety Board's meteorological specialist did not travel in support of this accident investigation and gathered all weather data remotely. The accident site was located at about: 40.105151° north latitude; 105.12258° west longitude at an elevation of about 5,075 feet.

This report provides information on solar position.

D. WEATHER INFORMATION

1.0 Solar Position

At the time of the accident and relative to the accident location, the sun was at an azimuth² of 108.38° and an elevation³ of 23.62°. ⁴

¹ UTC - abbreviation for Coordinated Universal Time

² Solar azimuth - the direction of solar disk from the observer, expressed as the angular distance measured clockwise from true north to the point on the horizon directly below the solar disk.

³ Solar elevation - the position of solar disk measured as the angular distance measured vertically from the point on the horizon directly below the solar disk to the center of the solar disk.

⁴ Solar position was retrieved from NOAA via: <https://gml.noaa.gov/grad/solcalc/>



Figure 1 - Depiction of solar azimuth relative to the accident location.

Submitted by:

Mike Richards
Senior Meteorologist