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The British Science Festival - The Sunshine Recorder Installation
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Instrument Campbell-Stokes sunshine recorder (Figure 1)
How it works A spherical glass lens burns a trace in a specially-shaped card in sunshine Pros Long-established (developed in 1870s) Standard method for many years, now being superseded by electronic sensors Cons Burn threshold very variable Measurement of burn length very subjective ($\pm 15\%$)

Sunshine recorders an overview - Measuring the Weather
Sunshine Recorders An Overview Measuring Sunshine measurement. *Weather*, 61, p 77.) A 12 month comparison between the Campbell-Stokes and the Instromet sensor (then

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known as the R&D sunshine sensor) was published in Weather in 1997 (Trialling of an inexpensive electronic sunshine sensor, June 1995 to May 1996) by C G Roberts, Weather, 52, pp

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Sunshine is measured using either Campbell-Stokes sunshine recorders or modern sunshine sensors. A pyranometer is used for measuring global radiation. How we measure radiation Four different...

How we measure sunshine and radiation - Met Office

A sunshine recorder is a device that records the amount of sunshine at a given location or region at any time. The results

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provide information about the weather and climate as well as the temperature of a geographical area. This information is useful in meteorology, science, agriculture, tourism, and other fields.

Sunshine recorder - Wikipedia

Sunshine recorders an overview - Measuring the Weather

Description A sunshine recorder is a meteorological instrument used for recording the amount of sunlight that a particular location receives throughout a day. Inside the recorder's adjustable frame are two important pieces: a paper strip, and a glass sphere that can focus the sunlight ...

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Sunshine hours (or, more correctly, hours of bright sunshine) is the traditional measure of the amount of sunshine that a location has received. For many years, sunshine hours was the only way in which the amount of sunshine could be monitored and recorded (by the well-known Campbell-Stokes recorder, with its glass-sphere lens and burned-paper trace).

Instromet Sunshine Hours Sensor - Prodata Weather Systems

A rotating mirror is used to reflect sunlight onto the photosensor, and the occurrence of sunshine is detected by measuring the intensity of the light received. The rotating mirror sunshine recorder used by JMA has a mirror that rotates once every 30 seconds and a photosensor to receive

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the reflected sunlight.

Chapter 7 Measurement of Sunshine Duration and Solar Radiation

Sunshine Recorders & Sundials. The Campbell-Stokes recorder utilises heat from the sun's rays, focused by a solid glass sphere to an intense spot, to char a trace on a sunshine card. Routinely mounted on a plinth, the Campbell-Stokes records the duration of bright sunshine in either hourly or daily totals. The recycled range of outdoor instruments are hand crafted in the UK and made from vending machine coffee cups direct from the national Save-A-Cup scheme.

Sunshine Recorders & Sundials - Metcheck

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Sunshine Recorders An Overview Measuring The Weather Download Ebook Sunshine Recorders An Overview Measuring The Weather Sunshine recorders an overview - Measuring the Weather One way that the duration of sunlight

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is measured is through a Campbell-Stokes sunshine recorder. This is one of the most widely used devices in the category. It is comprised of a glass canister or sphere that directs sunlight

Sunshine Recorders An Overview Measuring The Weather
Sunshine Recorders An Overview Measuring Instrument
Campbell-Stokes sunshine recorder (Figure 1) How it works A spherical glass lens burns a trace in a specially-shaped card in sunshine Pros Long-established (developed in 1870s) Standard method for many years, now being superseded by electronic sensors Cons Burn threshold very variable ...

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Sunshine is measured using either Campbell-Stokes sunshine recorders or modern sunshine sensors. Measuring sunlight, however, not as easy as it may sound. A glass sphere focuses the sun's direct radiation on a graduated card and the length of the burn trace on the card corresponds to

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the duration of sunshine.

What is the instrument used to measure sunshine? - Quora
The hours of bright sunshine are recorded by the rays of the sun passing through the sphere, which undergo focus and burn a hole through the card placed behind it. The card itself is calibrated so that the hours and minutes of the day are measured across it.

The Campbell-Stokes Sunshine Recorder ~ Kuriositas
it measures sunshine. the unit is designed to record hours of bright sunshine which will burn a hole through a card. 'what is the SI UNIT for sunshine'? Illuminance is measured in lumens (lm) in SI...

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