

Create a 3D Sunpath from Coordinates (Feature 1)

You can generate a 3D sunpath by simply entering your project's location.

There are 2 input methods:

Option A - From Model

Use the project coordinates already embedded in your SketchUp model.

Create Sunpath from Coordinates (Studio Version)

Project Location: From Model

Time Zone (Standard/Winter): Auto (Detect by Location)

Daylight Saving (DST): No

OKCancel

Option B - Manual Input

Manually enter latitude and longitude.

Create Sunpath from Coordinates (Studio Version)

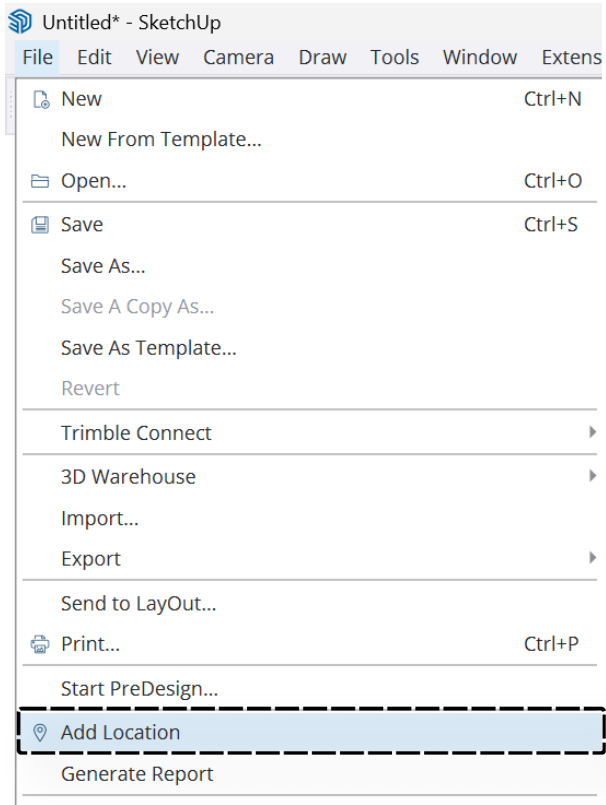
Project Location: Manual Input

Time Zone (Standard/Winter): Auto (Detect by Location)

Daylight Saving (DST): No

OKCancel

Coordinates can be preloaded via File -> Add Location.



Coordinates can be copied directly from Google Maps

Select Coordinates

Enter coordinates (latitude, longitude): 26.2649, -81.6255

OKCancel

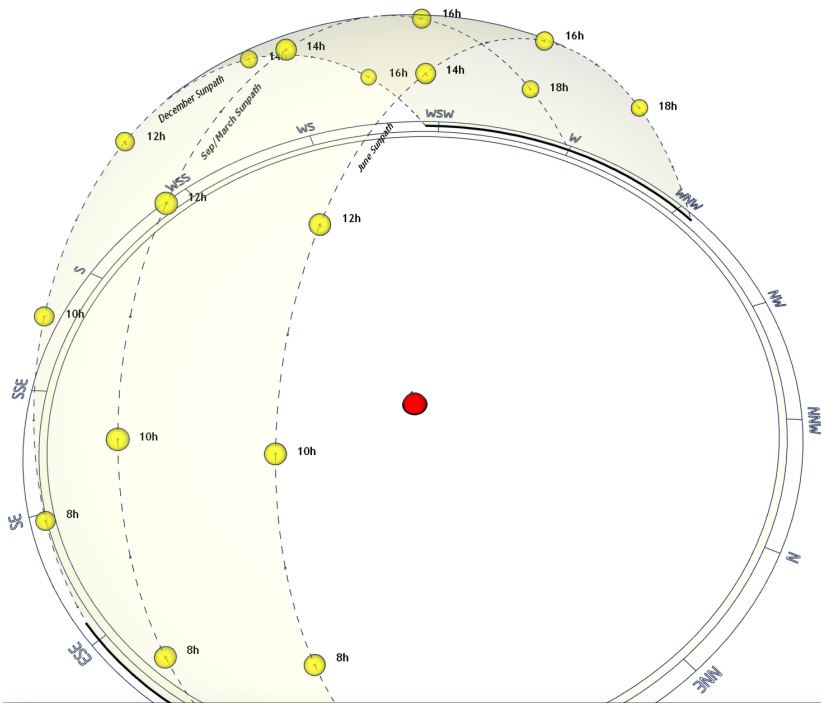
or any map service that provides coordinates (format example: 26.2649, -81.6255).

Time Zone (Standard/ Winter)

Please manually adjust the UTC value if the system does not correctly recognize the study location.

Results:

Once the coordinates are set, Sun Diagram will automatically place the 3D sunpath in your model. Both methods (From Model or Manual Input) generate the same result.

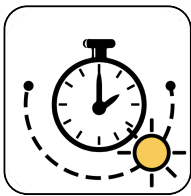


Daylight Saving Time (DST) Support:

In countries with seasonal time changes, you can enable DST for more accurate solar analysis.

Guide: How to Determine if Your Project Location Requires Daylight Saving Time (DST):

<https://archidiagram.com/check-dst-project-location/>



Shadow Analysis (Feature 2)

Simulate shadows and sun positions instantly for any selected time frame — no more guessing or manual adjustments. This automated workflow eliminates the need for manual setup and prevents errors caused by constantly switching UTC in regions with Daylight Saving Time (DST).

Shadow Analysis & Settings

N

Shadow Analysis

Check a month to show its Sunpath. Move the slider to update shadows instantly.

☐ Select All

☒ Show Sky Dome

☐ January

UTC +10.0 | DST: ON

☐ February

UTC +10.0 | DST: ON

☒ March

UTC +10.0 | DST: ON

Day: 21

Autumn Equinox

Time: 12:00

☐ April

UTC +9.0 | DST: OFF

☐ May

UTC +9.0 | DST: OFF

☒ June

UTC +9.0 | DST: OFF

Day: 21

Winter Solstice

Time: 12:00

☐ July

UTC +9.0 | DST: OFF

☐ August

UTC +9.0 | DST: OFF

☐ September

UTC +9.0 | DST: OFF

☐ October

UTC +9.0 | DST: OFF

☐ November

UTC +9.0 | DST: OFF

☐ December

UTC +10.0 | DST: ON

Day: 21

Summer Solstice

Time: 12:00

☒ Show On-Screen Info

Optional: Save these settings to reuse in other projects.

Tip: Click Default to activate the optimal Sun path state for the most important dates of the year—the standard for shadow diagram projects.

Default

Load Setting

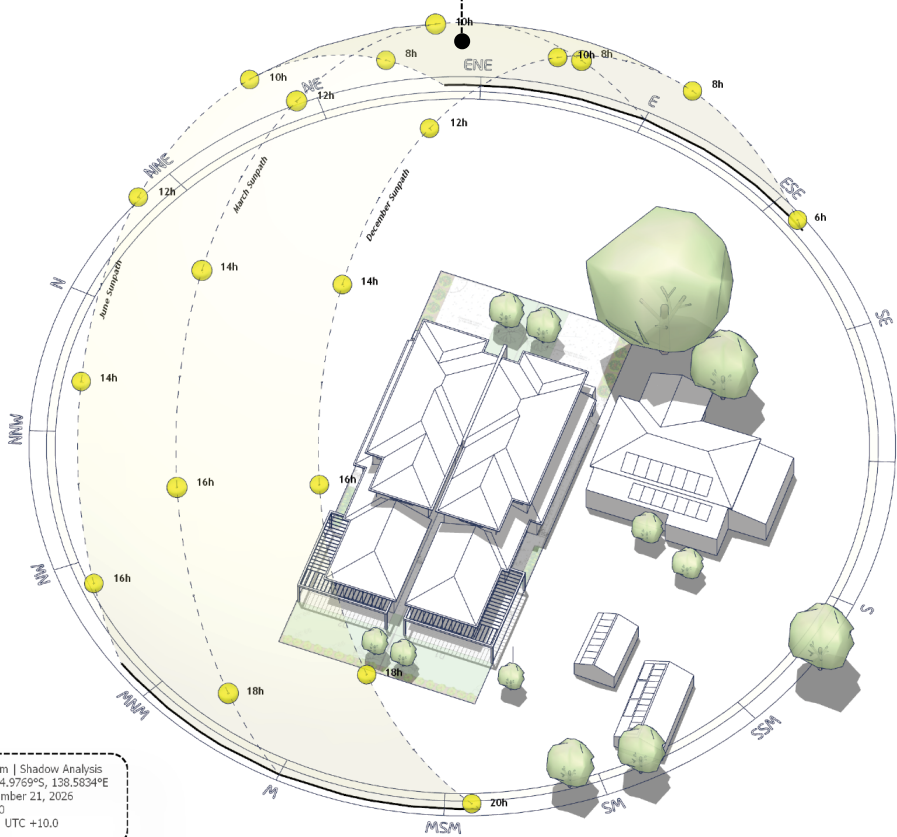
Save Setting

Each month expands for detailed settings

Toggles to enable analysis for specific calendar months.

Visualization Options

Enable “Show Sky Dome” for geometric context on the 3D model



The 3D Sun path in the model

Detailed Month Configuration:

Active months reveal controls for exact Day, unique solar event (e.g., Summer Solstice), and Time

Precision controls:

Enter a specific calendar day (e.g., 21). Drag the interactive hour slider for instant shadow and Sun updates.

Contextual Data

Text display showing precise details: Location, Date, Time, and active Time Zone. Use the 3x3 grid to snap text to any corner.

Configuration Manager

Restore to “Default” optimal state for standard studies. “Save” and “Load” settings for future use.

This is the plugin’s workspace.



This automated workflow utilizes your Shadow Analysis settings to instantly generate presentation-ready images for any time frame.



Batch Export Shadows

Time Ranges Setup

JuneDay: 21 | UTC +9.0

Start (h):6End (h):18

DecemberDay: 21 | UTC +10.0

Start (h):6End (h):18

MarchDay: 21 | UTC +10.0

Start (h):6End (h):18

MayDay: 21 | UTC +9.0

Start (h):6End (h):18

AprilDay: 21 | UTC +9.0

Start (h):6End (h):18

NovemberDay: 21 | UTC +10.0

Start (h):6End (h):18

OctoberDay: 21 | UTC +10.0

Start (h):6End (h):18

Output Directory:

Choose Folder

Not selected

Image Resolution:

Landscape FullHD (1920x1080)

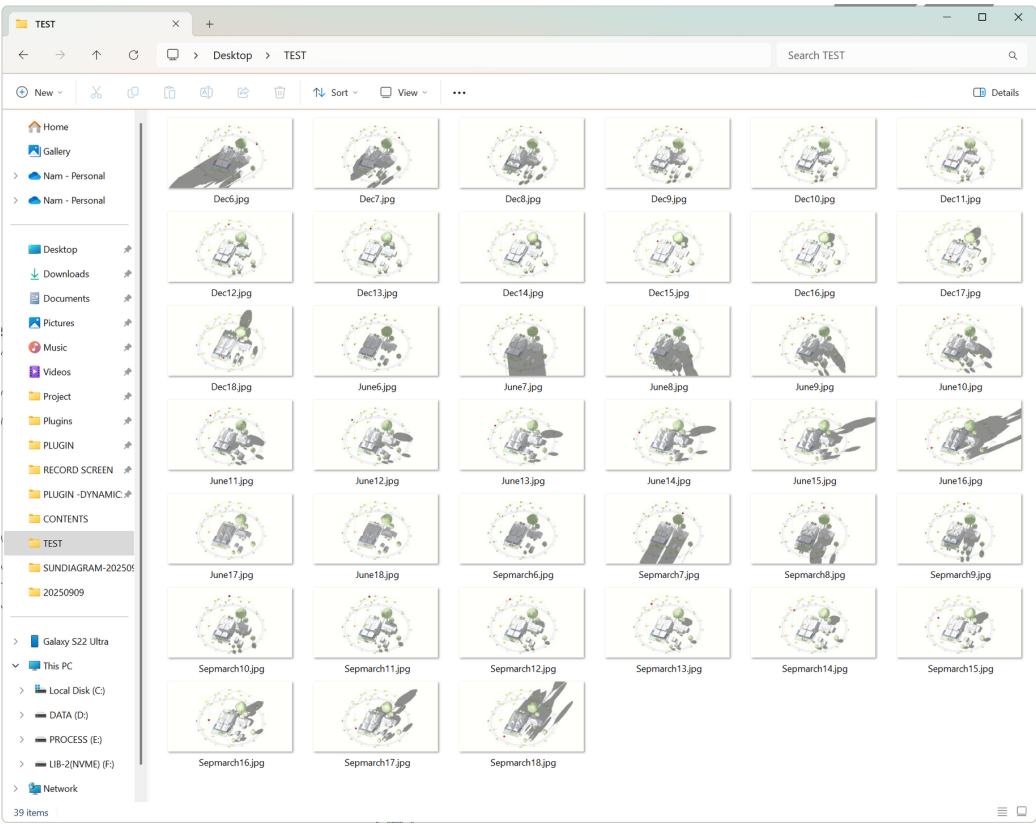
Export Images

Pause

Resume

Stop

Define specific Start and End hours for each active month. The system automatically syncs the Day and Time Zone settings directly from your Shadow Analysis panel.



You can then **combine** the exported images into a video using tools like CapCut, Photoshop, or AE or simply **merge** them into a **PDF** for easy viewing.



When you **activate** a style, the system will **automatically** load it into your model and adjust (enable/disable) the Sun Path layers (tags) accordingly.

Diagram Style

Diagram Style

DISPLAY OPTIONS

- ☐ Background
- ☐ Negative Mode
- ☒ Sun Path
 - ☒ Text Labels
 - ☒ Hourly Sun Position
 - ☒ Sun
 - ☒ Sky Dome

Item Colors:

Item	Custom Color	Recent Colors
Hourly Sun Pos		
Sun Color		
Skydome Color		
June Color		
December Color		
September Color		

Compass

- ☒ Compass

Item	Custom Color	Recent Colors
Compass Color		

Compass Style 1

Compass Style 2

Compass Style 3

Default

Load Setting

Save Setting

STYLE LIBRARY

Style 01 (Free)

Style 02 (Free)

Style 03 (Pro)

Style 04 (Pro)

Style 05 (Pro)

Style 06 (Pro)

Style 07 (Pro)

Style 08 (Pro)

Style 09 (Pro)

Tip: Enhance your designs with arrow symbols using [Dynamic Symbols](#). Click to learn more!

Toggle visibility for specific components like the Sun Path, Text Labels, Sun, and Sky Dome. Enable Negative Mode to instantly switch to a dark theme with automatically adjusted shadow and text contrast.

Personalize individual elements (Sun, Sky Dome, Compass, specific Months) using the built-in color picker. The system intelligently saves your Recent Colors for quick and consistent reuse.

Choose from multiple pre-designed Compass Styles to best complement your project's presentation aesthetic.

Restore to Default optimal state. Save your personalized color and visibility settings, or Load them for use in future projects.

Access a library of pre-configured aesthetic styles. Click any thumbnail to open a Preview dialog, then instantly Apply the style to your entire model.