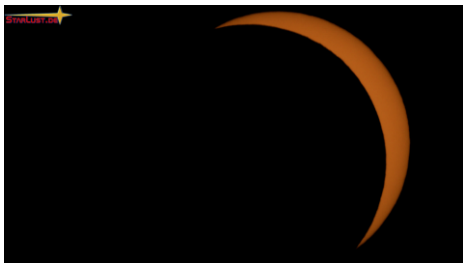
ObservationReport

all measures in mm

Observation-ID	0435	v	01	on	2026-08-12 19:00
Rating	****			Status	PostProcessed

STARLUST.DE

Main Object	**Solar Eclipse**
Common Name	
Alternate Name	Sonnenfinsternis
Visual Mag. | Size	0,00
Distance	
Object R.A. | DEC coord.	
Description	Solar Event
Constellation	
Other Objects	LUNA



20260812_Solar-Eclipse_ASI294_0435-01.mp4

StarImage Link	OID0435
Telescopius Link	
Wikipedia Link	

Image Properties				
Source Format	Video		Optical Scale ["/px]	0,7347
Tot./Act. Frames/Pane	36	183	Picture Center R.A.	0h 0m 0s
H / V Panes	4144	2822	Picture Center DEC	0h 0m 0s
Exp. [s] / Frame	1/1000		FoV measured H/V [°]	0,842 0,573
Total Time / Pane [min]	35.667,82	0,00	Above horizon [°]	10
			View Direction	WNW

Camera Data	**ZWO Optical**		**ASI294MC Pro**	**ZWOASI294**
Camera Angle [°]	0		Pixel Pitch [µm]	4,630
Gain or ISO	0		Camera Temp. °C	25

Observation Site			
Observation Start	2026-08-12T19:00:00 UTC+/- +1h	Observation End	2026-08-12T20:31:00
Observation Site	DE Göttingen Weende	Site Elevation / Bortle	182 4
Province	NDS	Site Coordinates	9° 56' 11" E; 51° 34' 26" N

Sky & Moon					
Sky Index | Total Clouds	4,0	10	%	Moon Rise | Set	
SQM |Outside Temp. °C	0	26		Moon Age [d]	0
Moon Phase |% Illum.	?	0	%	Moon ▶Target Dist.	0

Optical Configuration	**SW1300A294**		**SW1300ASI294**		
Lens or Scope	SkyWatcher MC102/1300		Mechanical Focuser	-	
Type Of Build	Maksutov Reflector		Electronic Focuser	☐	
Brand	SkyWatcher		Focuser Position	0	[mm] 0,00
Additional Optics	-	▶	Optical Factor	1	
Filter	Astrozap Solar		FoL norm|actual [mm]	1300	1300
Diameter [mm]	102		DawesLimitLink	,91 Arcsec	
Aperture / f-stop	12,75				

Other Hardware & Software				
Guide Scope + Camera	NONE	NONE	Mount	ZWO AM3
GuiderHW	ASIAIR		SessionControl	ASIAIR
GuiderSW	ASIAIR		PostProcessingSW	PI-PixInsight, PI-HT, PI-CT, ThumbsPlus, PIPP, MOVAVI

More ... (see also next page)

Work Folder	2026\20260812_0435_Solar-Eclipse_Weende
Comment/Title	Solar-Eclipse

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Remarks

Solar Eclipse 2026 on Göttingen-Weende:

Beginn: 19:17 CEST, Max: 20:07 CEST in WNW, Sun only 5% above horizon!
End: at sunset at 20:41h (Sun still partially covered by the moon)

Captured: 183 individual images using ASIAR Autorun, set to a 20-second interval between each image.
The individual shots were combined using PIPP into a video with a frame rate of 5 fps, resulting in a clip length of 26 seconds from approximately 1 1/2 hours of footage. Final conversion to .mp4 and compression to below 10 MB with MOVAVI.

Steps:

1. PixInsight: debayered all *.FIT files from the ASIAIR and saved them to *_d.XISF files
2. PixInsight: Stretched all *_d.XISF files using HAT (histogram transfer) with following settings:
    1. Shadow: 0.0506
    2. Hihjlight: 1.0
    3. Midtones: 0.0533
    4. Low: 0.0
    5. High: 1.0
3. PixInisght: CT (curves transformation) applied 2 times using:
4. Saturation Input: 0.27907 and Output: 0.60465