











Total Solar Eclipse Exposure Schedule

Shooting Location	State	Time Zone	Latitude	Lat (DMS)	Longitude	Long (DMS)	Duration	Totality	Azimuth Range						
Instructions Update information for shooting location above, particularly the time zone which will update the table. Update "Time (UTC)" (white boxes) with the specific times for your viewing location. The rest of the times will update automatically. Update Exposures based on values from the Solar Eclipse Exposure Calculator.															
Event Timeline by Location						Action Timeline				Exposure Values ⁴					
Contact	C-Sub	Time (UTC)	Central (-5)	Duration	Action	Action Time	Duration ¹	Notes	Q	Filter	t	f*	f(L*)	ISO	
C (-1)					Preparation			Preparation Procedure		ON					
C1								First Contact							
    					Partial Phase Intervals			Partial Phase (ND 5)		ON					
						Prepare BB/DR			Filter Removal Procedure		ON				
	BB					Photograph BB/DR			Bailey's Beads						
	DR2								Diamond Ring + Corona						
	DR1								Diamond Ring						
C2								Totality							
	Totality Start				Transition to Brackets					Off					
					Take Bracket Set 1			Chromosphere							
								Prominences							
								Lower Corona (.1Rs)							
								Inner Corona (.2Rs)							
								Inner Corona (.5 Rs)							
	Max Totality				Take Bracket Set 2			Middle Corona (1 Rs)							
								Upper Corona (2 Rs)							
								Outer Corona (3 Rs)							
								Outer Corona (4 Rs)							
								Outer Corona (8 Rs)							
								Earthshine							
					Prepare for C3			See Below in C3		OFF					
	Totality End							End of Total Eclipse		OFF					
C3								Third Contact							
    	BB				Photograph BB/DR			Bailey's Beads							
	DR2							Diamond Ring + Corona							
	DR1								Diamond Ring						
						Transition to Partial Phase			PUT SOLAR FILTER ON!		ON				
						Partial Phase Intervals			Partial Phase (ND 5)		ON				
C4								End of Eclipse		ON					
Totals		Total Eclipse Time			Total Action Time										

Legend			
Rs	Solar Radius	I	ISO
Q	Brightness Exponent	BB	Bailey's Beads
t	Shutter Speed	DR	Diamond Ring (Options 1 & 2)
f*	Effective Aperture (Lens aperture + teleconverter light loss)	ND	Neutral Density Filter
f(L*)	Actual aperture of lens		
Preparation Procedure			
<ol style="list-style-type: none"> 1 Setup and level tripod. Add weights if possible to reduce vibration and increase wind resistance. 2 Turn of image stabilization on lens and on the camera if shooting from a tripod 3 Attach cable release 4 Take off lens cap and immediately cover lens with a solar filter 5 Move the Sun into frame and take test images to verify sharp focus 6 Take test partial phase images and modify exposure as required to compensate for actual light intensity (verify that highlights aren't clipping) 7 Cover rig to protect from the sun while waiting for the eclipse to begin (remove a few minutes before C1 starts) 			
Filter Removal Procedure - C1 to C2			
<ol style="list-style-type: none"> 1 Modify exposure on the camera to C2 levels per your schedule 2 Change shutter release mode from intervalometer to Continuous High (for rapid fire images) 3 Unscrew or loosen the Solar filter but leave it on the mount 4 Hold your shutter release in a comfortable position and try not to move it 5 15 seconds prior to taking photos, remove the filter carefully but keep it in front of the lens without touching the lens in any way 6 Allow the rig to settle for at least 5 - 10 seconds 7 Shoot your C2 Bailey's Beads and/or Diamond Ring scheduled frames 8 Put the solar filter safely away (but where you can reach it for C3) and quickly roll into totality actions 			
Notes			
<ol style="list-style-type: none"> 1 Preparation and transition times are based on my experience with my equipment. Add or subtract time as you see fit using the syntax "=TIME(h,m,s)" 2 You will likely only have enough time for either Bailey's Beads or the Diamond Ring. I recommend choosing one or the other and committing to it. 3 I recommend an external, nylon screw-tightened solar filter instead of a screw-on glass filter since time is limited 4 See the Bracketing Calculator to determine what bracketing steps will cover all the phases you intend to photograph 5 It may be necessary to run multiple bracket sequences in a designated order to capture the full dynamic range 6 The Kendrick Solar Filter I use is made with Baader AstroSolar Safety Film which coincides with the ND 5.0 designation (99.999% reduction) 7 Your eyes should be dark-adapted by the time you complete C3 BB and DR images, so keep an eye out for Shadow Banding on light surfaces. 			
Shaun C Tarpley Photography		www.shaunctarpley.com	Page 2 of 2 Version 1 - 03.05.2024