

“Even the Sun appeared hideous, so that scarcely a third part of it gave light, I believe on account of such deeds of wickedness and the shedding of innocent blood.”

Gregorius Turonensis
Solar eclipse of 24 February AD 453,
when Attila the Hun was raiding Italy

A glowing yellow circle is centered on a black background. Inside the circle, the text "4.8.24" is written in a white, serif font.

4.8.24



Local

Location

Location

WAL*MART
SUPERCENTER

**The question is not where the
camera is located but rather
where you are located**

THE GREAT TEXAS SOLAR ECLIPSE

APRIL 8, 2024





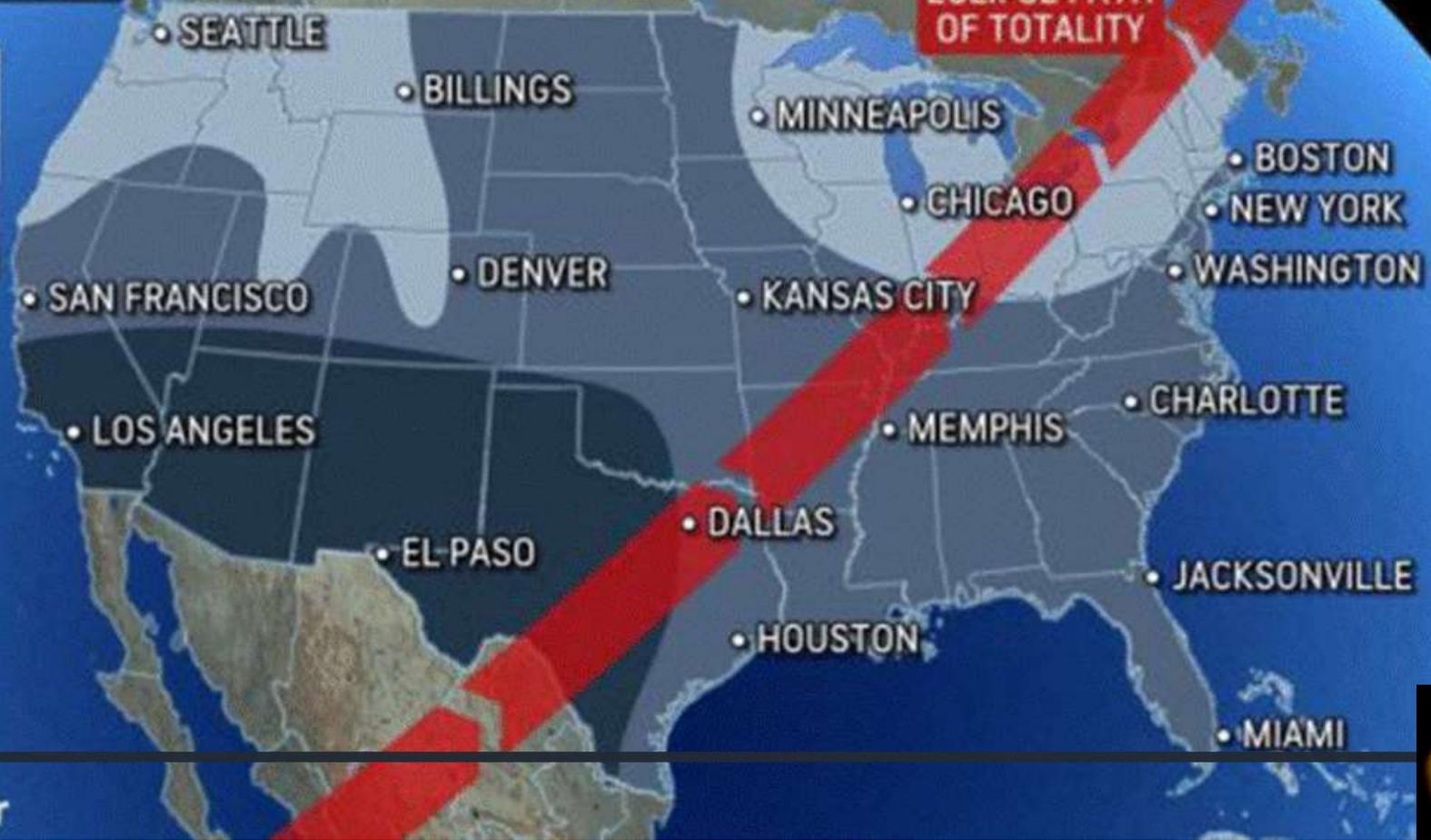
HISTORICAL CHANCE OF CLOUDS

APRIL 8, 2024

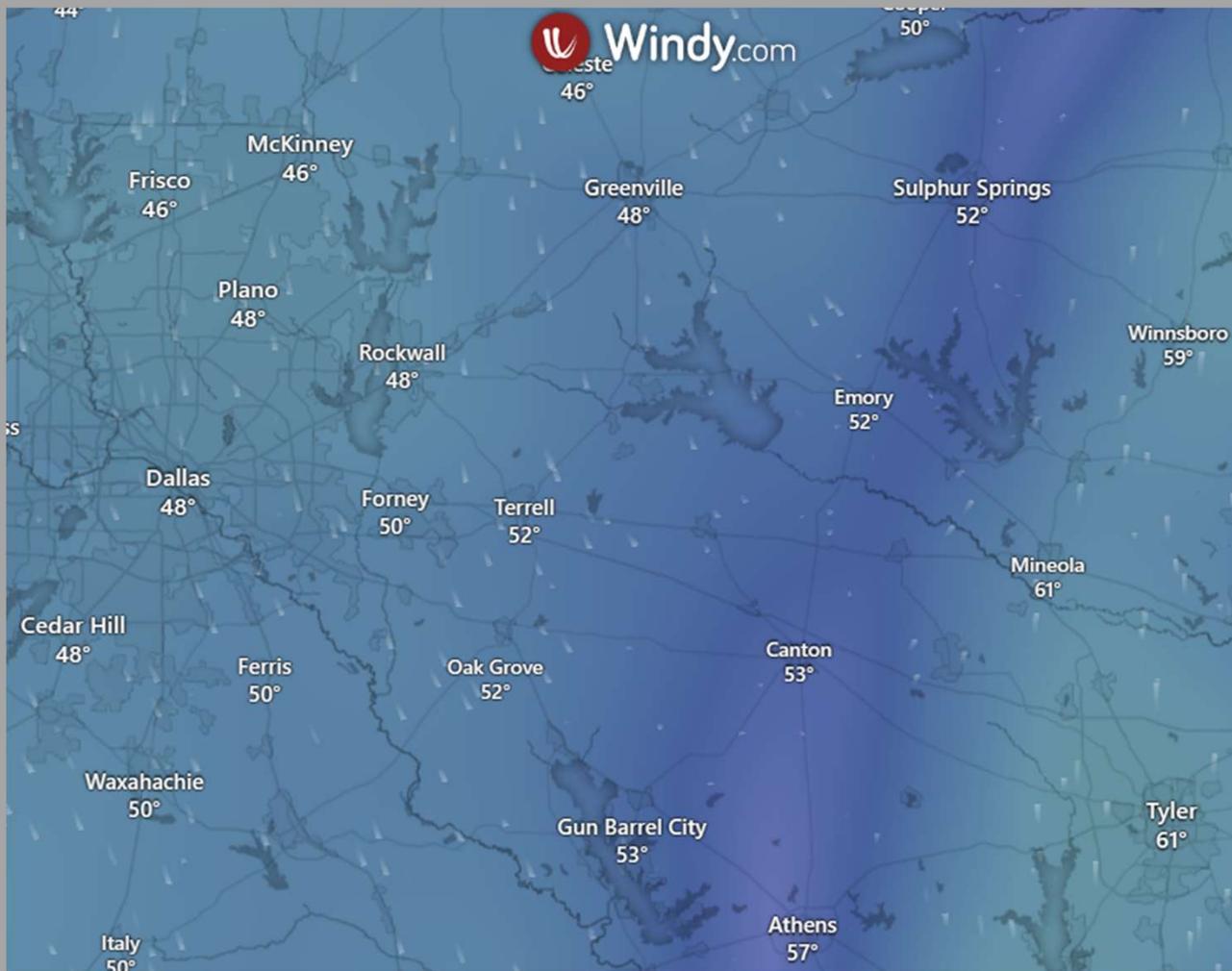
CLOUD COVER

- High
- Medium
- Low

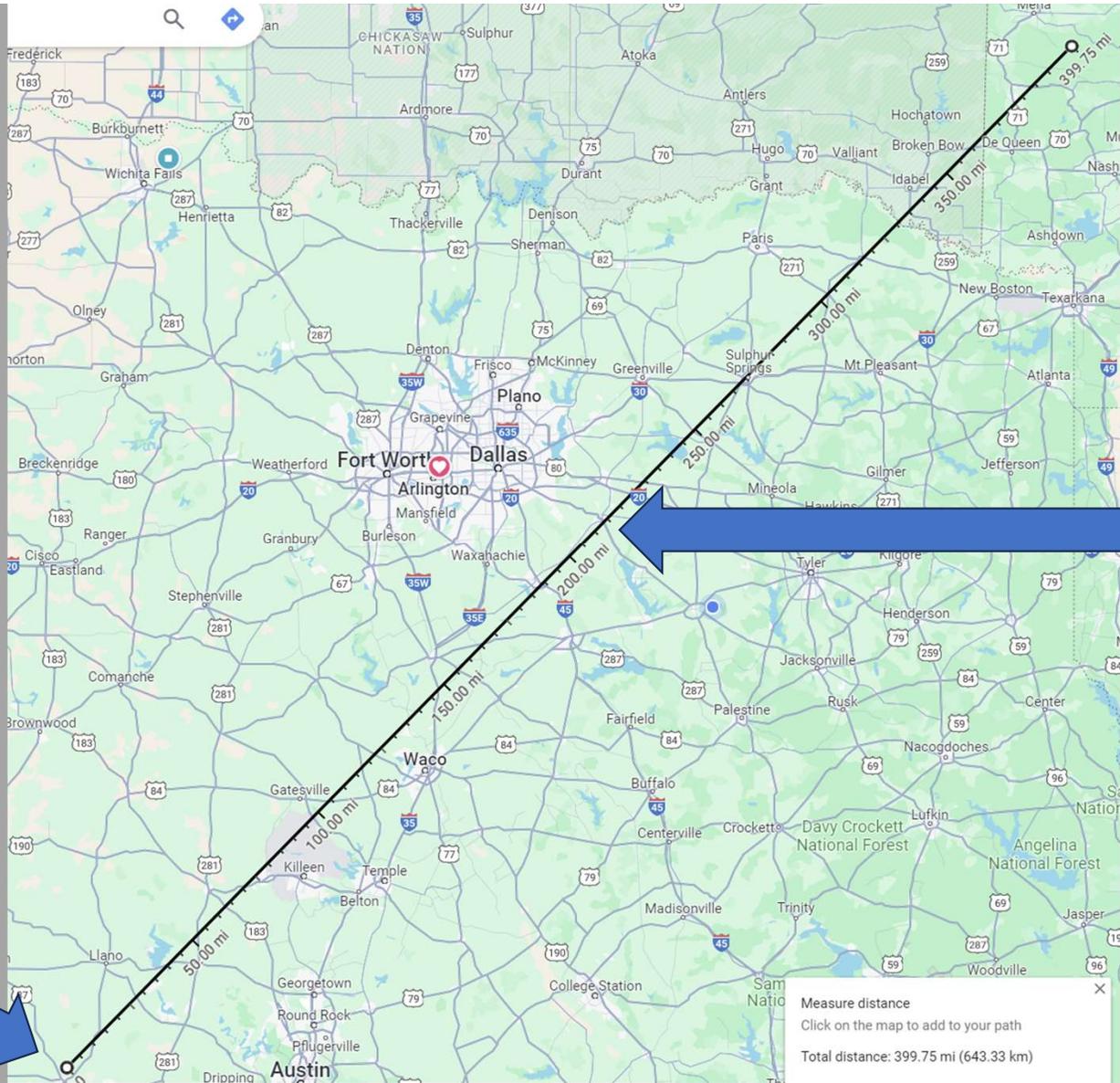
ECLIPSE PATH OF TOTALITY



Wind Matters



Understand the Length



Hot Springs

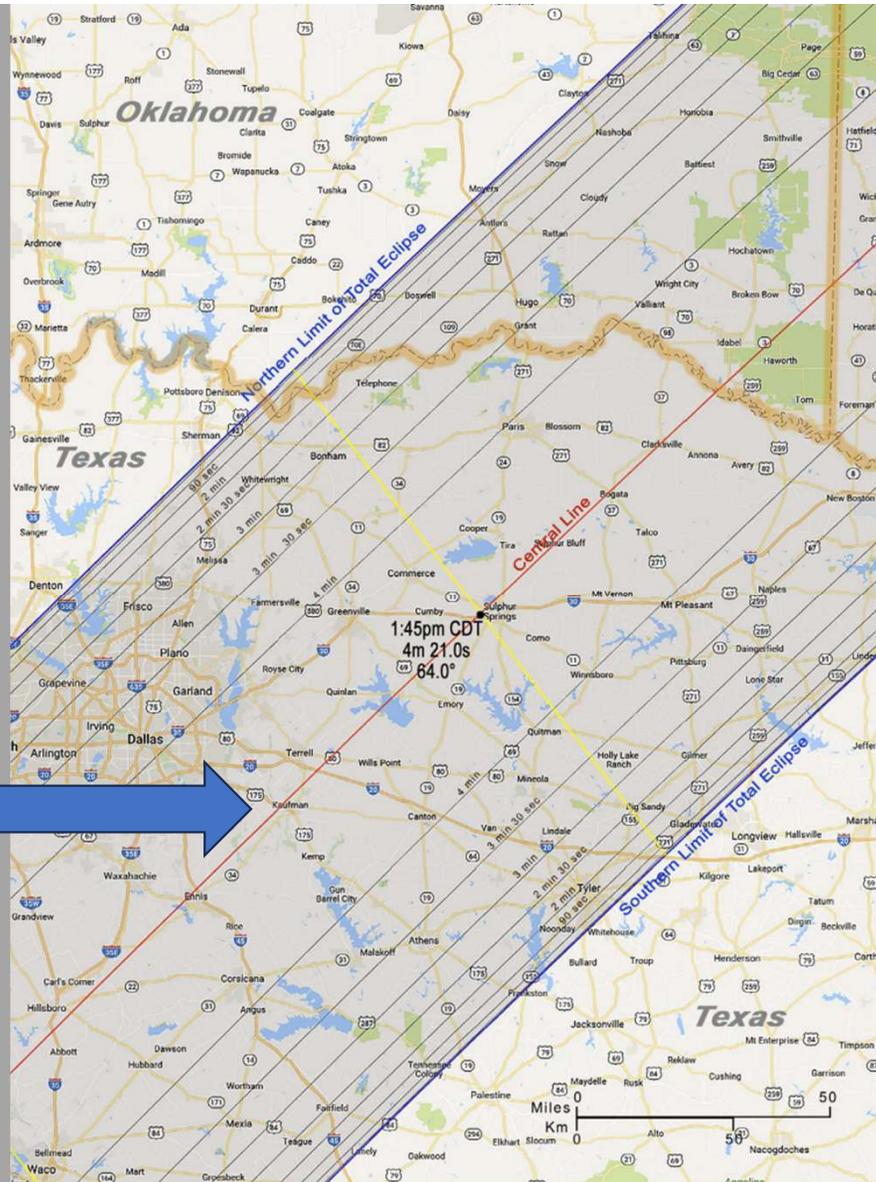
Kaufman Ground Zero

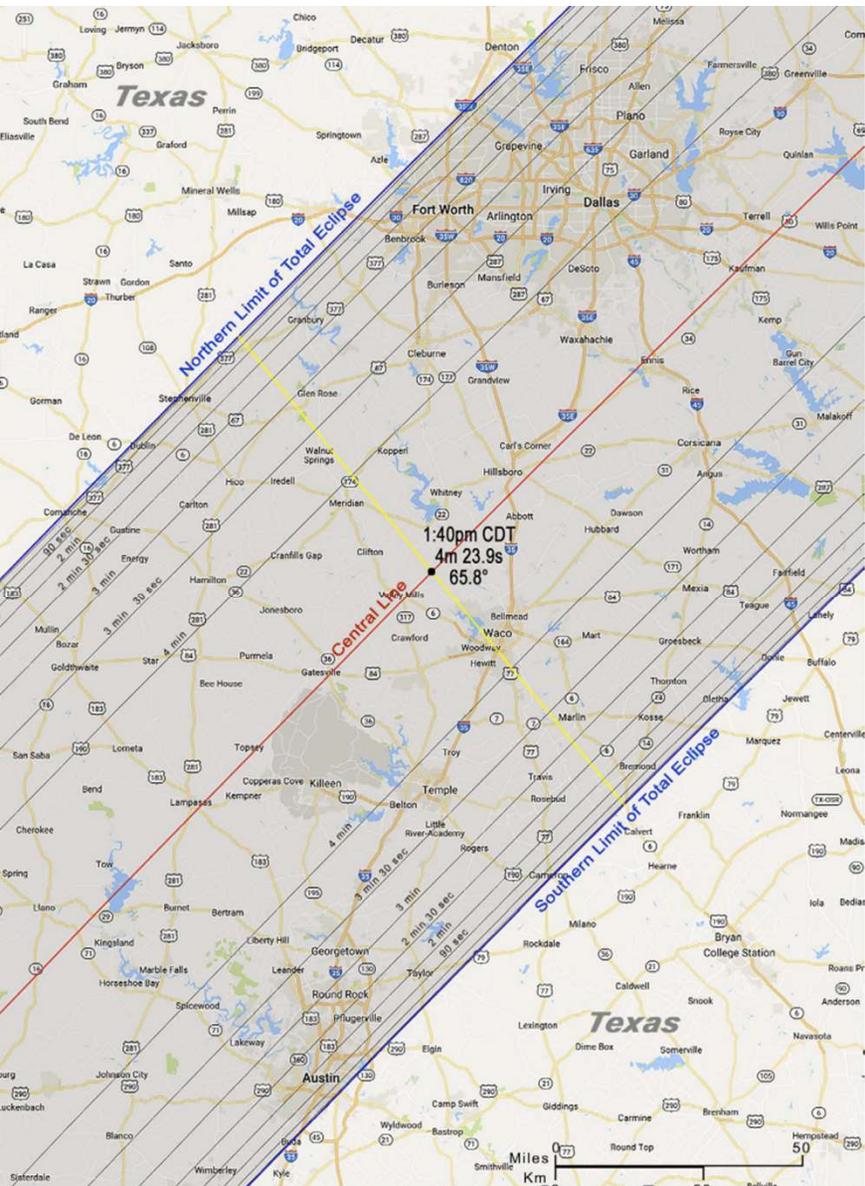
Fredericksburg



Measure distance
Click on the map to add to your path
Total distance: 399.75 mi (643.33 km)

Kaufman
Ground Zero

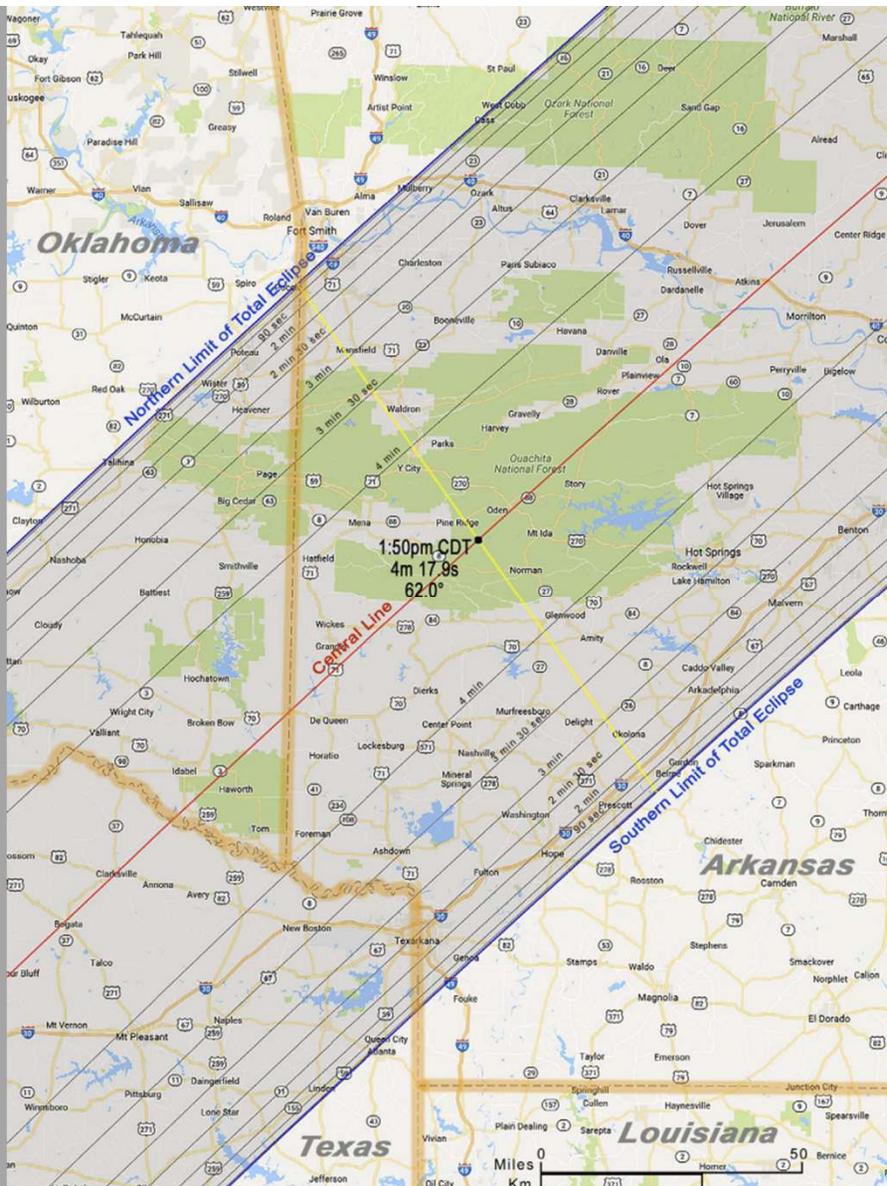




S W

**Kaufman
Ground
Zero**

NE



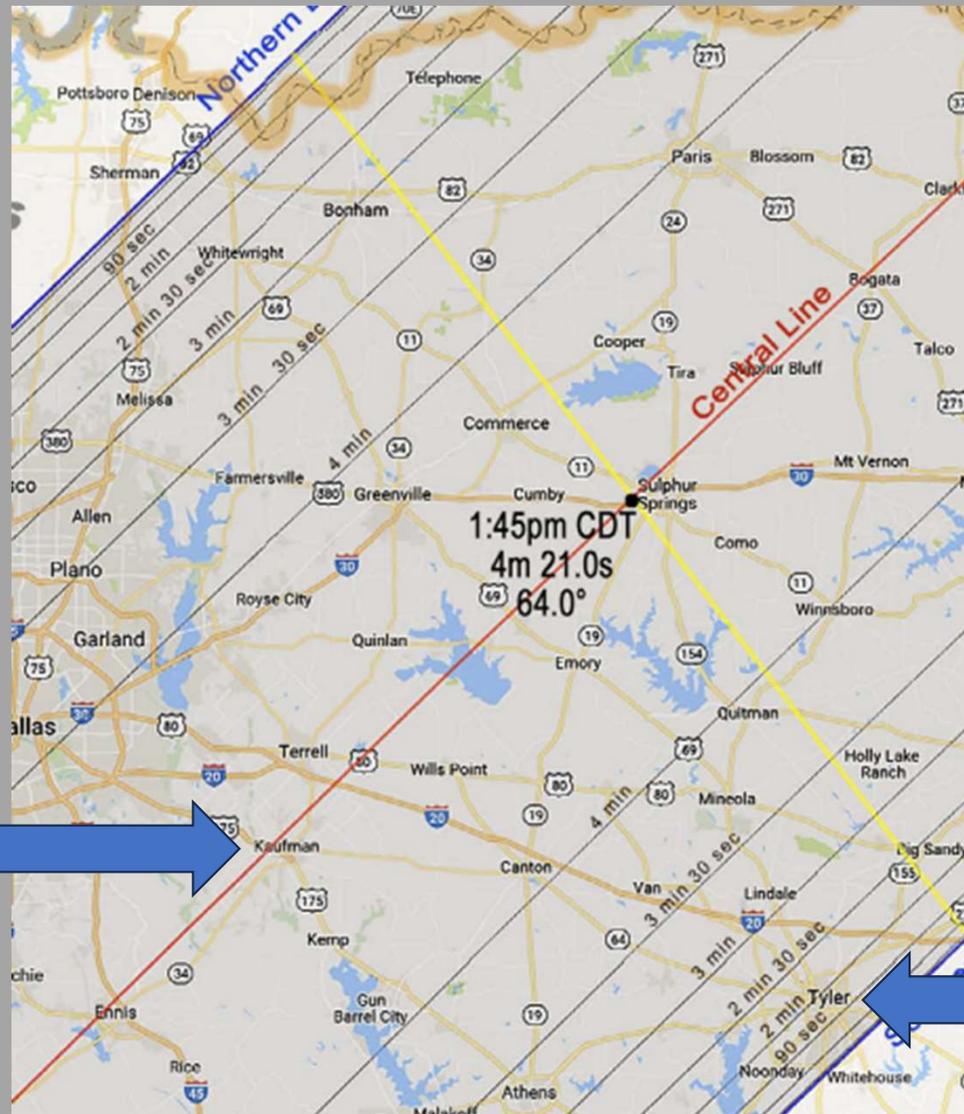
**Now,
Understand the width**

Width Matters

**55 miles from
central line**

**Kaufman
Ground Zero**

4m 21s

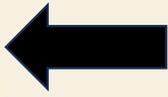
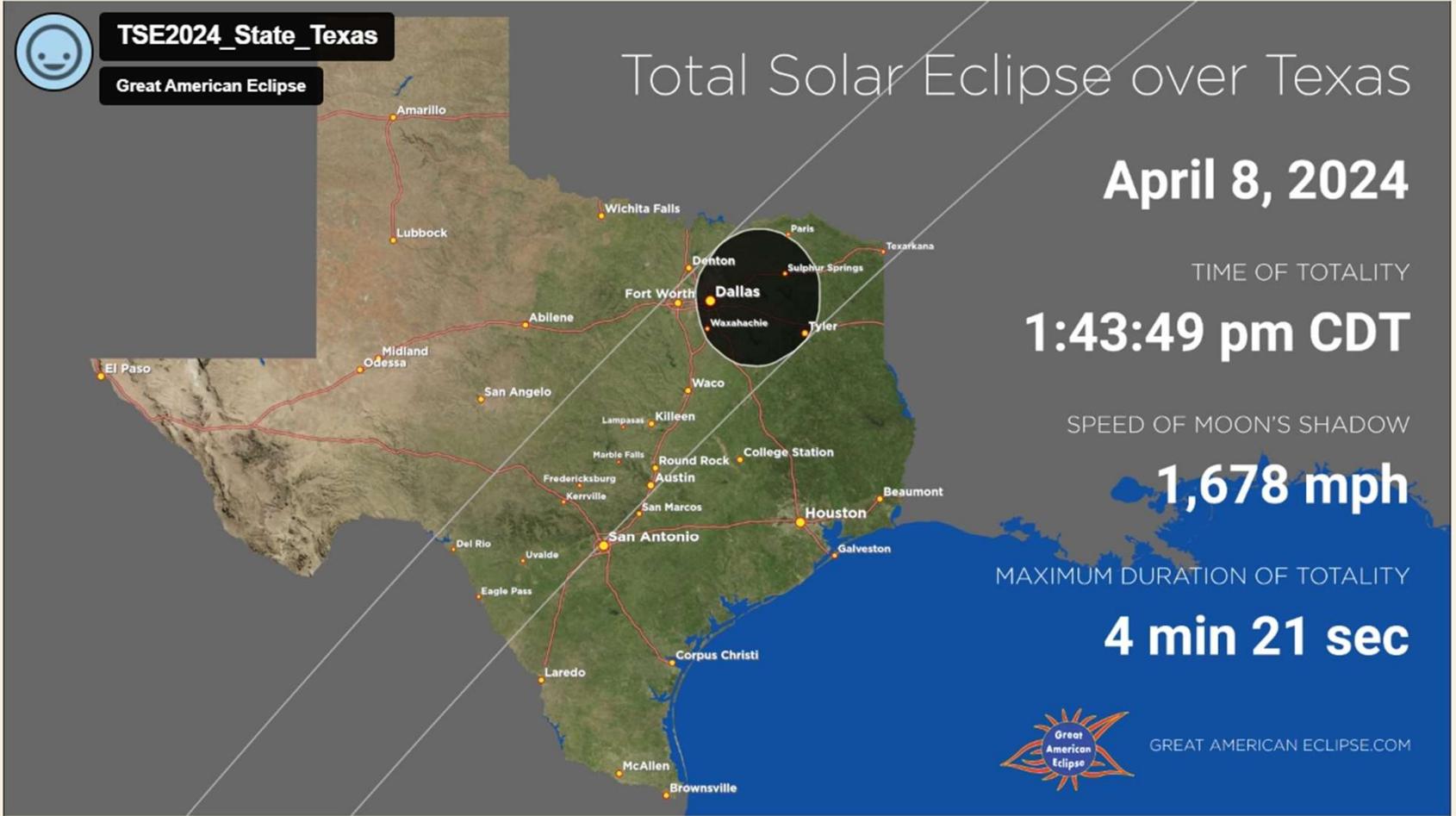


**Tyler
- 90s**

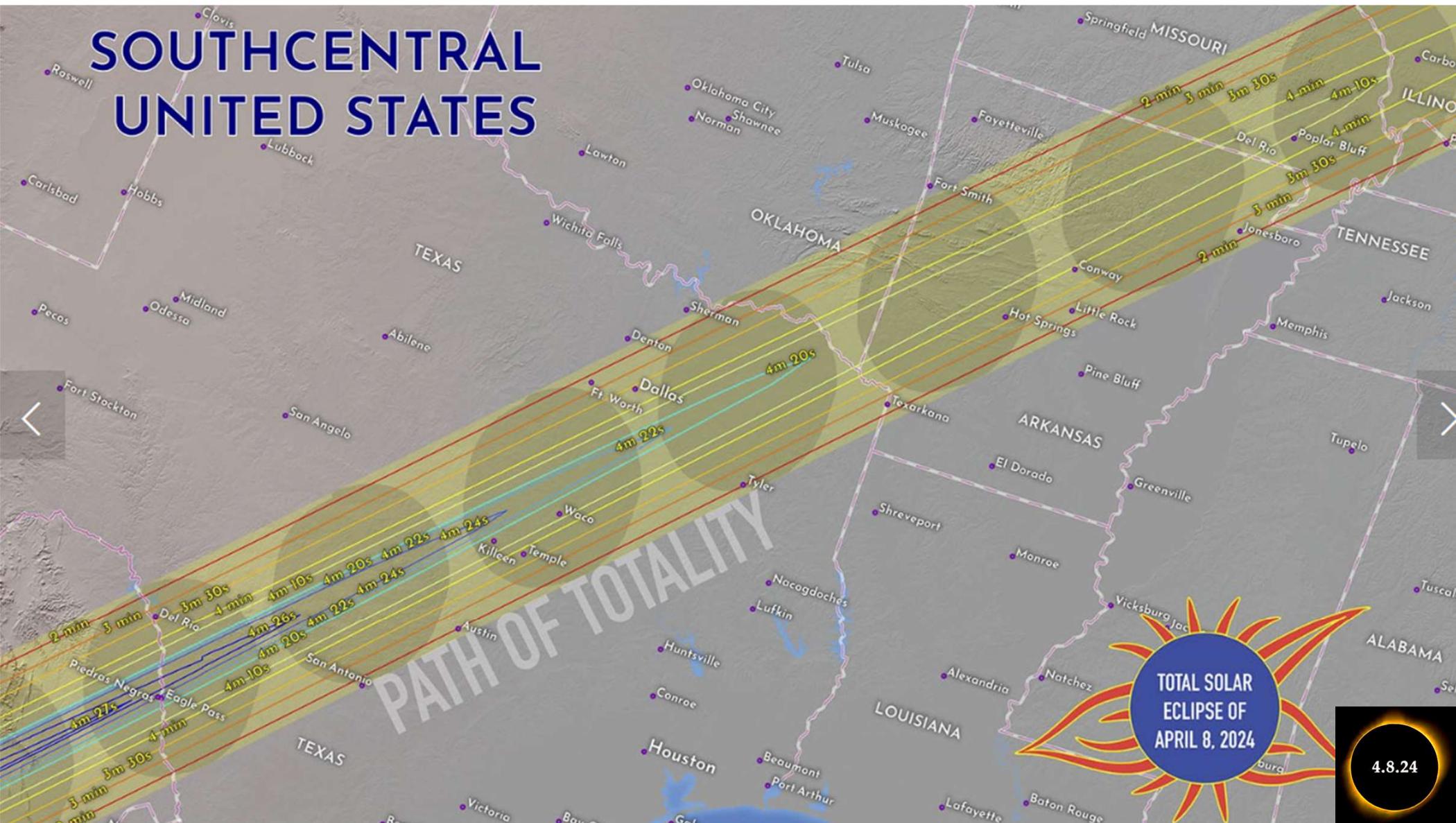
Time Matters

Location	Partial Begins	Totality Begins	Maximum	Totality Ends	Partial Ends
Dallas	12:23	1:40	1:42	1:44	3:02

Total Solar Eclipse in Texas



SOUTHCENTRAL UNITED STATES

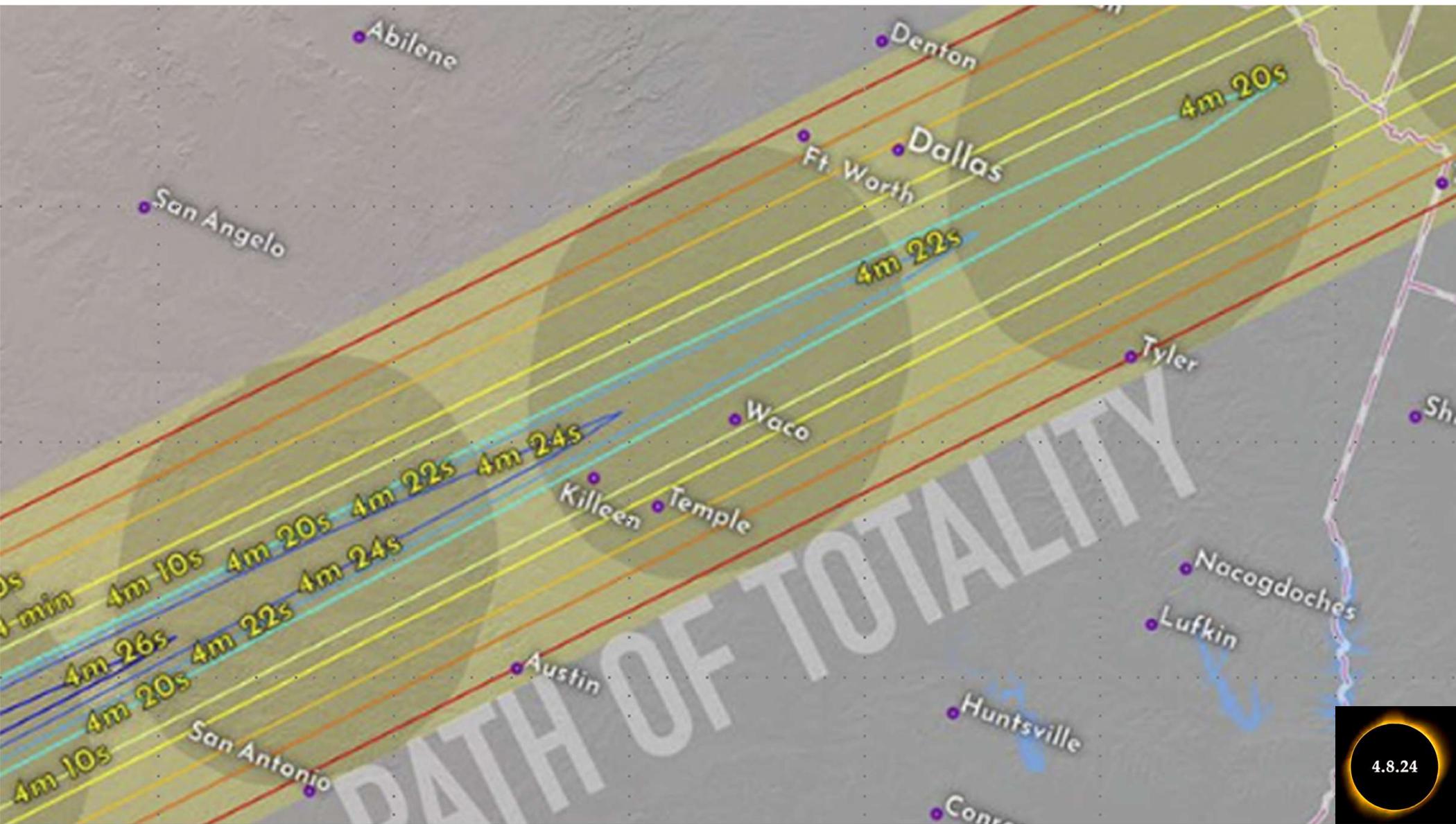


PATH OF TOTALITY



TOTAL SOLAR ECLIPSE OF APRIL 8, 2024





Equipment Needed

**Photography Equipment
Travel Check List**

Last Revision: 1/24/2024

Shoot/File Name:
Trip:
Date of Trip:
Maps: Need physical maps because of lack of cellular

Did Not Use (DNU)

Order Tickets:
Print Tickets:
Media Badge:
Media Badge Lanyard:

Tripod	Description/Qty	
Tripod (Manfrotto)	Graphite	
Tripod (Manfrotto)	Heavy	
Tripod (MeFoto)	Medium	
Tripod (MeFoto)	Backpack	
Monopod (Manfrotto)	Heavy	
Monopod (Benro)	3 Foot	
Car god	Window - Center Console	
Mini Tripod	Light	
Gimbal Head (Movo)	Igloo	
Arca-Swiss Head (Oben)	Car Head	
Long Lens Extension	Igloo	
Heavy Head (Newer)	3 Foot	
Phone Head (Smallog)		
Tripod Kit	Case	9/16
Bean Bag	15b	
L-Bracket		
Remote Shutter	Manual	
TW-283 Pivet	Remote Shutter	9/16
TW-283 Pivet	Backup Batteries	

Batteries	Description/Qty	
Camera Batteries (CB)		
CB Recharged?		Y/N
CB Batteries Charger	Charger	
Flash Batteries (FB)		
FB Recharged?		Y/N
FB Batteries Charger	Charger	

Equipment	Description/Qty	
Business cards		
Lens cleaning packets		
Lens cleaning kit		
Rocket Blower		
Photo Jacket (Crvis)		
Photo Jacket (Sunwar)		
Gray card		
Sheet (Gray/White/Both)		
Handdryer	Main Bag	9/16
Spray Water Bottle	Igloo	

Reset (initial Set)	D850	(starting lens)
Dual Chips Formatted	Yes	
Mode	Aperture/5.6	
White Balance	Auto A1	
Exposure	Auto A1	*+/- 0"
HDR/BRKT	BRKT Off	
ISO	Auto	
ISO Cap	25,600	
Metering	Matrix	
Quality	Raw	
Bay 1	Overflow	
Clean Image Sensor		
Minimum Shutter Speed	30	
Emergency Reset SD		

Rain	Description/Qty	
Rain coat		
Rain suit		
Trash bags		
Camera rain suit		

Camera Bags	Description/Qty	
Camera Backpack		
D850 (Think Tank)		
D7100 (Ruggard)		
Hard Case (Eyar)		
200-500 Case (Lowepro)		
70-200 Case (Nikon)		
28-70 Case (Nikon)		
14-24 Case (LJC)		
Camera Straps		
Waterlight Bags	Main Bag	9/16

Reset (initial Set)	D7100	(starting lens)
Dual Chips Formatted	Yes	
Mode	Aperture/5.6	
White Balance	Auto A1	
Exposure	Auto A1	*+/- 0"
HDR/BRKT	BRKT Off	
ISO	Auto	
ISO Cap	3,200	
Metering	Matrix	
Quality	Raw	
Bay 1	Overflow	
Clean Image Sensor		
Minimum Shutter Speed	60	
Emergency Reset SD		

Chips	Description/Qty	
Reader (Sony)	Main Computer	
Reader (Velog - CFexp)	Portable	
Reader (Velog - CXD)	Portable	
CFexpress (1, 28)		
XQD (1, 120)		
SD		
Chip Carrier (Clex/XQD)		
Chip Carrier (XQD)		
Chip Carrier (SD)		
HDMI/Reader - USB	Portable	
Remote Control	Portable	

Page 3	Shoot:	0
Trip:	0	
Date of Trip:	Saturday, January 0, 1900	

Red Wolf	Emergency Key	Verification Required	X
Tool Kit			9/16
Sho Stool			9/16
Ladder 8.5ft			9/16
Kneel Stand			9/16
Sleeping Bag (RW)			9/16
Blanket (RW)			9/16
Towels (RW)			9/16
Clothing Pole (RW)			9/16
Travel Pillow			9/16
Airline Travel Pillow			9/16
Glass Break Hatchet	Glove Compartment		9/16
Emergency Lighting	Portable		9/16
External Lighting			
Flashlight-Tower	Small Tower		9/16
Flashlight-Triangle			
Night Vision Flashlight	Red (Ilgoo)		9/16
Night Vision Flashlight	Battery Backup (V (Ilgoo)		9/16
Sure-Fire Flashlight			
Headlamp LED	Igloo		
Loupe	Igloo		
DeerBug Spray	Passenger Door		9/16
First Aid Kit			9/16
Antibacterial Wipes	Round		9/16
Antifog Cloth			9/16
Toilet Paper	Main Bag		9/16
Paper Towels	Main Bag		9/16
Special Shovel	Main Bag		9/16
Battery Cables	Main Bag		9/16
Tire Inflator Gauge	Glove Compartment		9/16
Farm Tire Jack	Blue Bag		
Lug Nut Wrench - 4 Way	Blue Bag		
RW Lug Nut Release	Blue Bag		
Tire Inflator	Blue Bag		
Tire Sealant	Blue Bag		
RW Cooler			
Lifetime Cooler	(24 HR Pre-cool)		
Lifetime Cooler	Cooler Shock Bags		
Storage Cooler			
Lithiumman Tool	Glove Compartment		9/16
Federal Land Pass	Special Glove Compartment		9/16

Page 2	Shoot:	0
Trip:	0	
Date of Trip:	Saturday, January 0, 1900	

Lens	Description/Qty	
Lens (LC 95mm)	200-500 (Landscape)	
Lens (LC 95mm)	Large Hood	
Lens (LC 95mm)	Metal Hood	
Lens (LC 95mm)	Araca Swiss Foot	
Lens (LC 95mm)	Standard Foot	
Lens (LC 77mm)	18-300 (DX)	
Lens (LC 77mm)	70-200 (Landscape)	
Lens (LC 82mm)	24-70	
Lens (LC 77mm)	24-120	
Lens	14-24	
Lens (LC 67mm)	85mm	
Lens (LC 58mm)	50mm	
Lens (LC 77mm)	20mm	
Lens	2.0 Teleconverter	
Lens	1.4 Teleconverter	
Lens	12-36 Extension Tubes	
(No Title)	Strap-on	
Lens Caps Backup		
Araca Swiss Saftey	Strap	

Filters	Description/Qty	
Filters	77mm ND2	
Filters	CPL 77mm	
Filters	82mm ND2	
Filters	CPL 82mm	
Filters (Tiffen)	Variable Neutral Density	
Filters (B+W Kaesmann)	CPL 82mm	
Filter (Magoo)	Magnetic Filter 16.5 Solar	
Step-down Ring Kit		
Filer Wrench		

Flash	Description/Qty	
SB-910 Kit		
SB-600 Kit		
Godox Kit		
Light Shield		
Camera Bracket		
Bracket Extension Cord		
Flash Kit		
Flash Diffuser	Altura	
Jell-O-Cup		
X-Backdrop		
Painter's Tape		
Gaffer Tape		
Profoto C1	Portable Light	

Computer	Description/Qty	
Portable Computer		
Computer Charger		
32GB Backup Chip (s)		
1TB Flash Drive		
Portable Ext Drive		
iPhone		
Phone Charger		
Phone Backup Battery	Charged?	
Black Computer Wire Pack		
Extension Cord		
Bose Headphones	Charged?	
Apple Watch		
Apple Watch Charger		
Suunto Watch		

Personal	Summer/Winter Hat	Main Bag	9/16
Skull Hat			
Hand warmers	HotHands		9/16
Special gloves - No Fingers	Main Bag		9/16
Binocular (RW)	Special Glove Compartment		9/16
Binocular (BSA)			
Binocular (Janset)			
Compass (Adu)	Igloo		
Hiking boots/socks			
Hiking boots/water			
Tennis shoes/socks	Main Bag		
Steel Belts			
Covid-19 mask (3)	Main Bag		9/16
Covid-19 Medical Papers			
Passport			
Knee Brace			
Black Brace			9/16
Knee Pad			9/16
Swimsuit			
Arm sweat bans			
Frog Towel			
Prescription Sunglasses			9/16
Prescription Glasses			9/16
Reading Glasses			9/16
Solar Glasses	Eclipse HD		9/16
Emergency Whistle			9/16

General	Audubon Field Guide	
Clamps	Igloo	
Duct Tape	Main Bag	9/16
Electric ties	Black Bag	9/16
Folding Chair	(Bag)	9/16
Folding Chair	Major	
Rubber Bands		
Knife with Lanyard		
Snake Bite Kit	Igloo	
Super Glue	Igloo	
Thermal Coffee Cup		
Tide Charis		
Traffic Safety Vest	American Air	9/16
Wader Boots		
Waders		
Water in Bottles		
Water bottles - Nalgene-30		
Water bottles - TAL-64	Water Box	
Water bottles - Trevis-20		
Frog Towels		
Zip lock bags	Camera/lens	
Silica		

Travel Check List





Base Equipment Needed

Which Lens?

			
200mm	400mm	600mm	800mm
			
1000mm	1200mm	1500mm	2000mm

Teleconverter



Things That Go Bump in the Night

Death Penalty: Nitrogen vs Electrocution

Political Choices: Biden or Trump

Photography: Full Frame Camera Set to Crop Sensor

Solar Filters



> 16 Stop

5 **Solid**
Neutral Density Filter





Solar Glasses

Do **Not!**



Camera Settings



PORTRAIT OR LANDSCAPE?



MANUAL OR APERTURE?



Best Practices in Forensic Photography for Organ Coordinators

Best Practice

Totality

No Filter

ISO – Native

Aperture – Wide Open

Speed - Bracket

Solar Eclipse Exposure Guide

ISO	f/Number									
25	1.4	2	2.8	4	5.6	8	11	16	22	32
50	2	2.8	4	5.6	8	11	16	22	32	44
100	2.8	4	5.6	8	11	16	22	32	44	64
200	4	5.6	8	11	16	22	32	44	64	88
400	5.6	8	11	16	22	32	44	64	88	128
800	8	11	16	22	32	44	64	88	128	176
1600	11	16	22	32	44	64	88	128	176	

Eclipse Feature	Q	Shutter Speed									
Partial ¹ - 4.0 ND	11	—	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	
Partial ¹ - 5.0 ND	8	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30	1/15	
Baily's Beads ²	11	—	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	
Chromosphere	10	—	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	
Prominences	9	—	1/4000	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30	
Corona - 0.1 Rs	7	1/2000	1/1000	1/500	1/250	1/125	1/60	1/30	1/15	1/8	
Corona - 0.2 Rs ³	5	1/500	1/250	1/125	1/60	1/30	1/15	1/8	1/4	1/2	
Corona - 0.5 Rs	3	1/125	1/60	1/30	1/15	1/8	1/4	1/2	1 sec	2 sec	
Corona - 1.0 Rs	1	1/30	1/15	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec	
Corona - 2.0 Rs	0	1/15	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec	15 sec	
Corona - 4.0 Rs	-1	1/8	1/4	1/2	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	
Corona - 8.0 Rs	-3	1/2	1 sec	2 sec	4 sec	8 sec	15 sec	30 sec	1 min	2 min	

A study desk setup featuring a central chalkboard with a wooden frame. The chalkboard has the words 'LEARN', 'PRACTICE', and 'IMPROVE' written in white chalk. To the left of the chalkboard is a stack of three books with red covers. In front of the books is a metal mesh pencil holder containing several colored pencils. To the right of the chalkboard is a silver and red alarm clock showing approximately 10:10. In front of the chalkboard lies a rolled-up scroll and a black pen.

LEARN
PRACTICE
IMPROVE

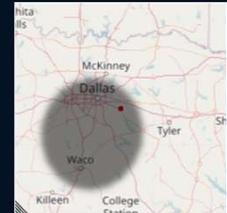
The Total Solar Eclipse of April 8, 2024

■ Glare ◯ ■ Stars and Planets ◯ ■ Outlines ◯ ■ Study Baily's Beads ◯ Δt = 03.10s ■ Study Shadow

Select Location ◯
Select Another Eclipse
Return to Eclipse2024.org

32.58902N 96.30887W ◯
Kaufman, TX

Scene Corona: round1 Instructions



Zoom: 49.6

Zoom

64°



Speed: 1.0x ◯

Reset 1x

Speed

Time

Fine Time

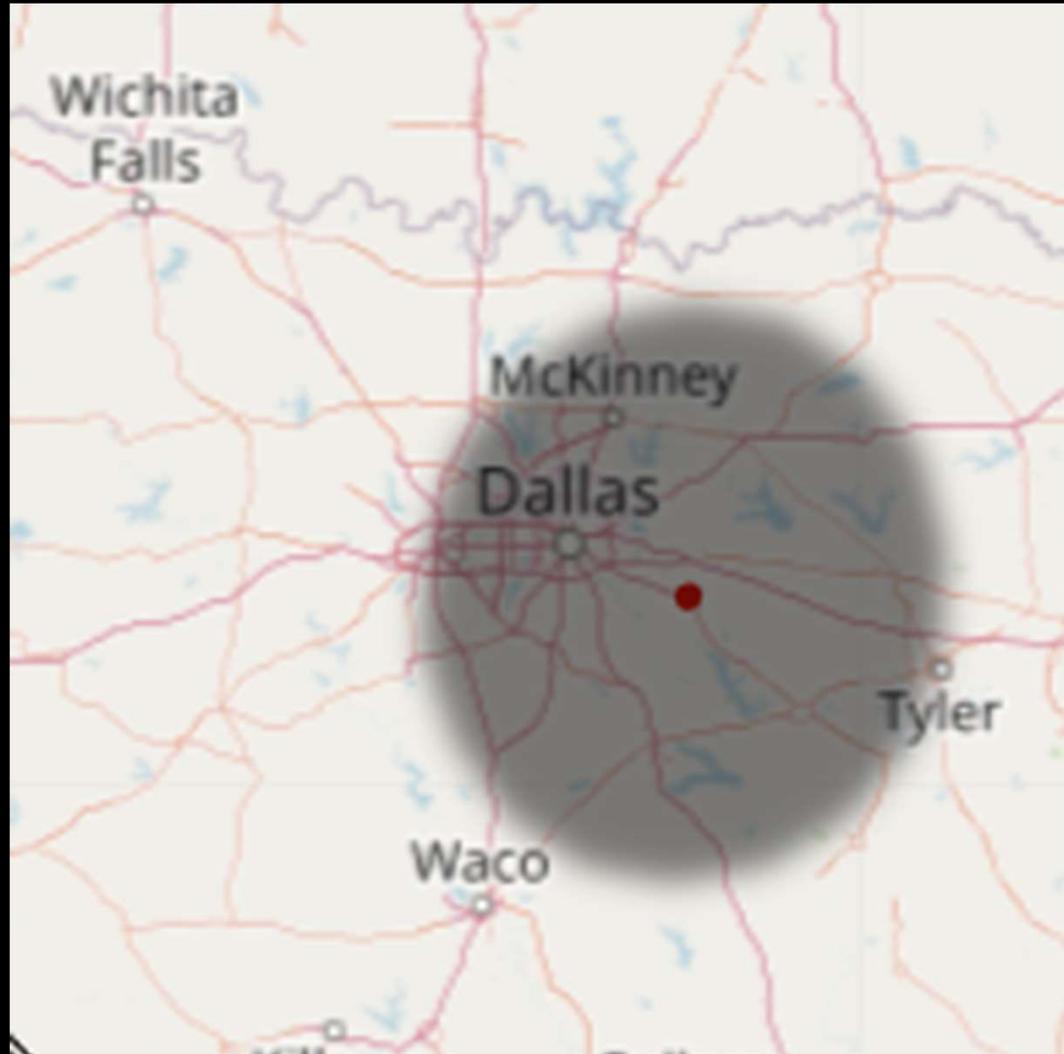
Mag: 100.8% ◯ Obs: 100% ◯

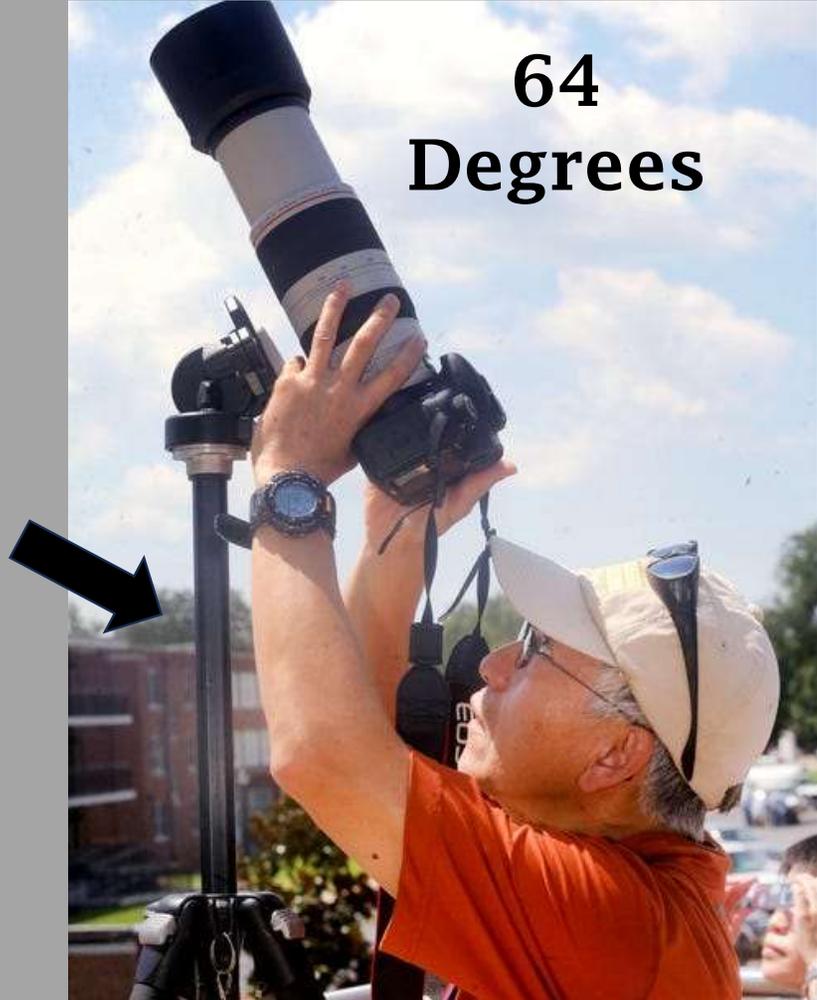
1:41:33pm ◯

Standard ◯

CDT

Eclipse Simulator





**JUST
DO
IT**



Best Practice

Partial Eclipse

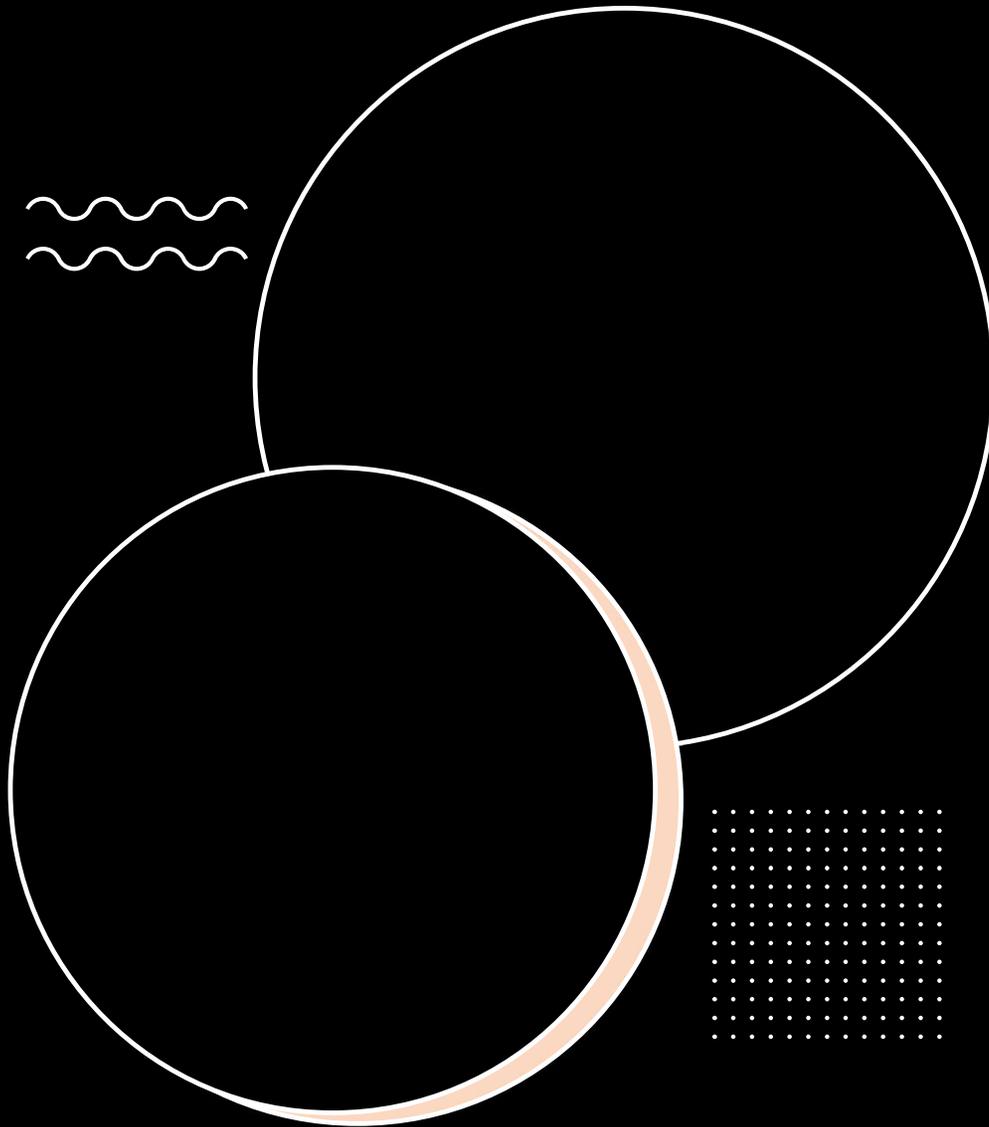
Filter

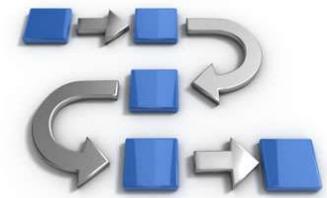
ISO – Native

Aperture – Wide Open + 2

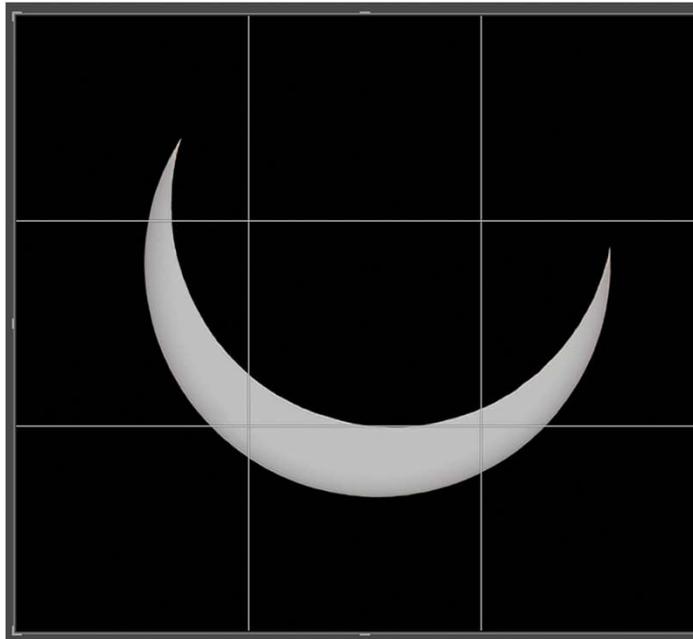
Speed - Bracket

Post Processing





1. Upload, Import, Presets
2. “R” Crop





Auto B&W HDR

Profile : Color ▾ ☰

 WB : Custom ▾

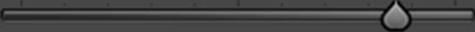
Temp  0

Tint  0

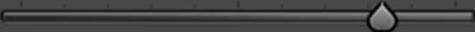
Tone

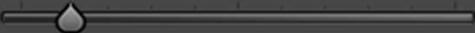
Exposure  0.00

Contrast  + 47

Highlights  + 72

Shadows  0

Whites  + 66

Blacks  - 77

Presence

Texture  0

Clarity  0

Dehaze  - 100



Why You Need 2 Cameras







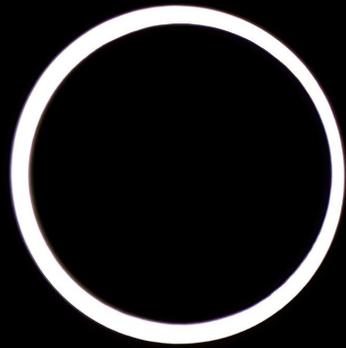


A Parting Thought



Why ?





Questions



Resources

Eclipse Simulator -
eclipse2024.org

Exposure Guide
[SE-Exposure1w.GIF](#)
[\(759×949\) \(mreclipse.com\)](#)



