Page 1

22 Nov 2018 12:51:15

Satellite-CubeSat: Eclipse Times

	Time (EpSec) Stop ass Number Stop Pas Duration (sec)	Time (EpSec) Dura s Number Current	ation (sec) Condition	Obstruction Worst Condit	n St tion
	2472 210	2481 062	0.750	Tankh	26
338	2472.310 26338	2481.063 Penumbra		Earth Umbra	26
330	2139.827	Periumbra	2	UNDLA	
	2481.063	4603.293	2122 220	Fax+h	26
338	26339	4603.293 Umbra	2122.230	Umbra	20
330	2139.827	Ollibia		UNDLA	
	4603.293	4612.137	8.845	Far+h	26
339	26339	Penumbra		Umbra	20
339	2139.827	rendible	2	UNIDIA	
	8018.959	8027.723	8.764	Far+h	26
339	26339	Penumbra		Umbra	20
339	2139.145	renumbra	2	UNDIA	
	8027.723	10149.249	2121 526	Far+h	26
339	26340	Umbra	2121.520	Umbra	20
333	2139.145	Olibia		OIIDI A	
	10149.249	10158.105	8 856	Farth	26
340	26340	Penumbra		Umbra	20
340	2139.145	renumbra	2	UNDIA	
	13565.628	13574.402	8 775	Farth	26
340	26340	Penumbra		Umbra	20
340	2138.467	renumbre	2	OIIDI A	
	13574.402	15695.227	2120 825	Farth	26
340	26341	Umbra	2120.025	Umbra	20
310	2138.467	onio: a		OIIDI a	
	15695.227	15704.095	8.868	Earth	26
341	26341	Penumbra		Umbra	
J	2138.467	1 CITALIDIT	•	OHIDE G	
	19112.319	19121.105	8.786	Earth	26
341	26341	Penumbra		Umbra	
J	2137.774	1 CITALIDIT	•	ombi d	
	19121.105	21241.213	2120.108	Earth	26
341	26342	Umbra	2220020	Umbra	
J	2137.774	onio i		ond a	
	21241.213	21250.093	8.879	Earth	26
342	26342	Penumbra		Umbra	
·	2137.774				
	24659.029	24667.826	8.798	Earth	26
342	26342	Penumbra		Umbra	_•
	2137.081		-	<u></u>	
	24667.826	26787.219	2119.393	Earth	26
342	26343	Umbra		Umbra	_0
· · ·	2137.081			-	
	26787.219	26796.110	8.891	Earth	26
			0.051		-0

Page 2 Start Time (EpSec) Stop Time (EpSec) Duration (sec) Obstruction Start Pass Number Stop Pass Number Current Condition Worst Condition

	Number uration (se		Pass	Number	Current C	Condition	Worst Cond	ition
343		2634	3		Penumbra		Umbra	
313	2137.		•		I CII CII CII		onder a	
				20214 56	0	8.809	Eco+b	26
242								20
343	04.04		5		Penumbra		Umbra	
	2136.				_			
	30214.568					2118.673		26
343		2634	4		Umbra		Umbra	
	2136.	385						
	32333.242			32342.14	4			26
344		2634	4		Penumbra		Umbra	
	2136.	385						
	35752.509			35761.32	9	8.821	Earth	26
344		2634			Penumbra		Umbra	
	2135.	684						
	35761.329			37879 27	۵	2117.950	Farth	26
344	33701.323				Umbra		Umbra	20
344	2135.		5		UNDLA		UIIDI a	
				25000 10	•	0 014	,	
	37879.279					8.914		26
345		2634	5		Penumbra		Umbra	
	2135.							
	41299.279					8.832	Earth	26
345		2634	5		Penumbra		Umbra	
	2134.	980						
	41308.112			43425.33	4	2117.222	Earth	26
345		2634			Umbra		Umbra	
	2134.	980						
				43434 26	n	8.926	Earth	26
346	13123.331				Penumbra		Umbra	20
340	2134.		,		rendibra		Olibi a	
				46054 01	4	0 044	T	26
246	46846.070					8.844		26
346		2634	b		Penumbra		Umbra	
	2134.							
	46854.914					2116.491		26
346		2634	7		Umbra		Umbra	
	2134.	273						
	48971.405			48980.34	3	8.938	Earth	26
347		2634	7		Penumbra		Umbra	
	2134.	273						
	52392.881			52401.73	7	8.856	Earth	26
347		2634	7	0	Penumbra		Umbra	
317	2133.		•		I CII CII CII		onior a	
	52401.737			54517.49	4	2115.757	Earth	26
247	32401.737			24211.43		2113.737		20
347	01.22	26348	•		Umbra		Umbra	
	2133.							
	54517.494		_	54526.44		8.949		26
348		26348	3		Penumbra		Umbra	
	2133.	562						
	57939.712			57948.57	9	8.868	Earth	26
348		26348	3		Penumbra		Umbra	

Page 3 Start Time (EpSec) Stop Time (EpSec) Duration (sec) Obstruction St art Pass Number Stop Pass Number Current Condition Worst Condition Total Duration (sec) ---------------2132.848 2115.019 57948.579 60063.599 Earth 26 348 26349 Umbra Umbra 2132.848 60072.560 8.961 Earth 60063.599 26 Umbra 349 26349 Penumbra 2132.848 63486.563 63495.442 8.880 Earth 26 349 26349 Penumbra Umbra 2132.133 65609.722 2114.280 63495.442 Earth 26 349 26350 Umbra Umbra 2132.133 8.973 65609.722 65618.695 Earth 26 350 26350 Penumbra Umbra 2132.133 69033.434 69042.326 8.892 Earth 26 350 26350 Penumbra Umbra 2131.412 71155.861 2113.535 69042.326 Earth 26 350 26351 Umbra Umbra 2131.412 71155.861 71164.846 8.985 Earth 26 351 26351 Umbra Penumbra 2131.412 74580.325 74589.228 8.904 Earth 26 351 26351 Penumbra Umbra 2130.691 74589.228 76702.019 2112.790 Earth 26 351 26352 Umbra Umbra 2130.691 76702.019 76711.016 8.997 Earth 26 352 26352 Penumbra Umbra 2130.691 80136.151 8.916 80127.235 Earth 26 352 26352 Penumbra Umbra 2129.966 80136.151 82248.192 2112.042 Earth 26 Umbra Umbra 352 26353 2129.966 82257.201 9.009 Earth 82248.192 26 26353 353 Umbra Penumbra 2129.966 85683.093 8.928 Earth 85674.165 26 353 26353 Penumbra Umbra

86400.000

Umbra

716.907

Earth

Umbra

26

725.835

725.835

26354

85683.093

353

