

Constellation profile: starlink.dat
Statistics over 0100 crossings

Latitude= +029 °		FOV= 1200 ’			T= 0060 s		Sun declination= +000 °		
		PM			AM				
Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Crossing expectance	00013.75	00005.37			00005.26	00016.29	Crossing expectance	S
	Expected path (’)	05546.68	01406.03			01333.49	06263.48	Expected path (’)	
	V (mag)	06.96±01.14	08.02±00.62			08.13±00.56	07.01±01.11	V (mag)	
	Speed (’/s)	12.78±05.92	06.14±01.37	00.00±00.00	00.00±00.00	05.95±01.20	12.85±06.48	Speed (’/s)	
W	Crossing expectance	00018.67	00017.50	00007.92			00006.62	Crossing expectance	W
	Expected path (’)	07864.17	07003.79	02406.62			02055.78	Expected path (’)	
	V (mag)	09.80±01.40	08.94±01.14	09.23±00.73			06.48±01.09	V (mag)	
	Speed (’/s)	12.69±05.14	12.10±04.30	08.19±01.60	00.00±00.00	00.00±00.00	12.88±06.64	Speed (’/s)	
N	Crossing expectance	00039.00	00018.17	00015.29	00014.71	00017.83	00038.33	Crossing expectance	N
	Expected path (’)	15872.89	06223.63	04434.51	04601.21	05798.33	16953.35	Expected path (’)	
	V (mag)	07.52±01.07	08.32±00.73	08.75±00.56	08.64±00.53	08.33±00.71	07.51±01.05	V (mag)	
	Speed (’/s)	13.66±06.25	08.52±02.76	07.32±01.42	07.41±01.32	08.56±02.62	13.58±06.21	Speed (’/s)	
E	Crossing expectance	00005.56			00007.13	00015.86	00016.14	Crossing expectance	E
	Expected path (’)	01708.91			02195.92	06412.86	06632.13	Expected path (’)	
	V (mag)	06.52±01.17			09.10±00.62	08.99±01.20	09.78±01.19	V (mag)	
	Speed (’/s)	12.65±06.24	00.00±00.00	00.00±00.00	08.41±01.71	12.29±04.61	12.46±04.30	Speed (’/s)	
Z	Crossing expectance	00002.40	00001.26			00001.09	00002.38	Crossing expectance	Z
	Expected path (’)	01526.39	00653.82			00555.75	01552.59	Expected path (’)	
	V (mag)	04.54±01.28	05.61±00.17			05.58±00.16	04.57±01.26	V (mag)	
	Speed (’/s)	44.48±25.05	20.54±01.44	00.00±00.00	00.00±00.00	20.86±01.31	43.70±24.85	Speed (’/s)	
Pointing directions:					S, W, N, E, at +15° elevation			Z: zenith	

Crossing expectance: p . Expected number of traces per shot. If N shots are done under the same circumstances, then pN traces are expected in the whole set of images.

Expected path: L . If N shots are done under the same circumstances, then pN traces will be present and, in average, each trace will be of length L/p arcminutes.

Average apparent magnitude: V . Average apparent visual magnitude of tracing satellites, and its standard deviation.

Average apparent angular speed: Average apparent angular speed of tracing satellites in arcminutes per second, and its standard deviation.

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		PM			AM				
Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Crossing expectance	00013.88	00006.62	00003.37	00003.61	00006.87	00014.43	Crossing expectance	S
	Expected path (’)	05860.02	01852.12	00753.36	00776.96	02025.02	05886.64	Expected path (’)	
	V (mag)	07.54±01.09	08.08±00.84	08.57±00.58	08.50±00.56	08.11±00.79	07.60±01.11	V (mag)	
	Speed (’/s)	12.49±06.02	07.65±02.92	05.67±01.10	05.80±01.17	07.55±02.61	12.25±05.85	Speed (’/s)	
W	Crossing expectance	00017.17	00016.14	00008.92			00005.32	Crossing expectance	W
	Expected path (’)	07311.83	06833.62	02727.63			01553.62	Expected path (’)	
	V (mag)	09.25±01.18	08.73±01.07	09.39±00.67			06.24±01.18	V (mag)	
	Speed (’/s)	12.76±04.90	12.65±04.62	08.30±01.53	00.00±00.00	00.00±00.00	14.53±06.87	Speed (’/s)	
N	Crossing expectance	00037.33	00014.71	00000.53	00000.56	00013.62	00035.33	Crossing expectance	N
	Expected path (’)	15817.52	04513.63	00070.27	00074.38	04283.76	16154.17	Expected path (’)	
	V (mag)	07.05±01.01	08.15±00.48	08.67±00.46	08.61±00.45	08.15±00.49	07.06±01.04	V (mag)	
	Speed (’/s)	13.85±06.22	07.40±01.29	05.24±00.77	05.29±00.79	07.53±01.15	13.91±06.23	Speed (’/s)	
E	Crossing expectance	00006.24			00008.15	00018.67	00016.83	Crossing expectance	E
	Expected path (’)	02052.25			02560.86	07387.81	06388.04	Expected path (’)	
	V (mag)	06.51±01.19			09.35±00.64	09.00±01.15	09.51±01.21	V (mag)	
	Speed (’/s)	13.19±06.51	00.00±00.00	00.00±00.00	08.36±01.49	11.91±04.63	12.08±04.53	Speed (’/s)	
Z	Crossing expectance	00002.40	00001.03			00001.06	00002.54	Crossing expectance	Z
	Expected path (’)	01638.79	00570.13			00572.19	01726.96	Expected path (’)	
	V (mag)	04.63±01.28	05.59±00.17			05.59±00.16	04.46±01.29	V (mag)	
	Speed (’/s)	42.77±24.64	20.77±01.32	00.00±00.00	00.00±00.00	20.80±01.34	45.98±25.27	Speed (’/s)	
Pointing directions:					S, W, N, E, at +15° elevation			Z: zenith	

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		PM			AM			
<i>Sun elevation →</i>		-12°	-25°	-37°	-37°	-25°	-12°	<i>← Sun elevation</i>
S	Crossing expectance	00012.11					00013.62	Crossing expectance
	Expected path (')	04611.49					05216.52	Expected path (')
	V (mag)	06.76±01.20					06.62±01.09	V (mag)
	Speed ('/s)	12.14±06.35	00.00±00.00	00.00±00.00	00.00±00.00	00.00±00.00	12.83±05.74	Speed ('/s)
W	Crossing expectance	00017.50	00017.00	00006.12	00000.06	00000.24	00011.22	Crossing expectance
	Expected path (')	07357.59	05803.84	01856.10	00000.47	00012.30	03792.52	Expected path (')
	V (mag)	08.64±01.04	08.35±00.94	08.39±00.51	08.55±00.11	07.43±00.18	06.68±01.35	V (mag)
	Speed ('/s)	12.70±04.86	10.92±03.64	07.92±01.25	07.18±00.28	09.09±00.64	12.56±06.04	Speed ('/s)
N	Crossing expectance	00036.33	00035.00	00017.17	00017.83	00035.33	00037.33	Crossing expectance
	Expected path (')	16094.35	12923.17	05276.46	05258.58	12349.96	15091.50	Expected path (')
	V (mag)	08.22±01.04	08.60±00.97	09.42±00.65	09.48±00.63	08.60±00.98	08.27±01.04	V (mag)
	Speed ('/s)	13.69±06.03	12.65±05.19	07.93±01.89	07.91±01.81	12.72±05.56	13.56±06.13	Speed ('/s)
E	Crossing expectance	00009.36	00000.22	00000.06	00007.00	00014.43	00018.33	Crossing expectance
	Expected path (')	03261.36	00011.75	00000.50	02197.80	04672.97	07185.70	Expected path (')
	V (mag)	06.54±01.21	07.45±00.18	08.54±00.11	08.50±00.46	08.24±00.96	08.70±01.21	V (mag)
	Speed ('/s)	12.63±05.72	09.05±00.63	07.20±00.28	07.70±01.00	11.69±03.75	12.76±04.99	Speed ('/s)
Z	Crossing expectance	00002.55	00000.94			00001.14	00002.68	Crossing expectance
	Expected path (')	01599.77	00499.41			00598.07	01723.31	Expected path (')
	V (mag)	04.51±01.27	05.57±00.15			05.62±00.18	04.51±01.28	V (mag)
	Speed ('/s)	44.91±25.16	20.90±01.27	00.00±00.00	00.00±00.00	20.52±01.48	45.22±25.10	Speed ('/s)
Pointing directions:		S, W, N, E, at +15° elevation					Z: zenith	

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