

Constellation profile: starlink.dat
Statistics over 0100 crossings

Latitude= +029 °		FOV= 1200 ’			T= 0030 s		Sun declination= +000 °		
		PM			AM				
Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Crossing expectance	0002.50	0001.43			0001.32	0002.78	Crossing expectance	S
	Expected path (’)	1085.60	0399.33			0345.32	1152.04	Expected path (’)	
	V (mag)	05.26±01.22	06.28±00.26			06.26±00.26	05.13±01.17	V (mag)	
	Speed (’/s)	27.97±16.43	13.09±01.98	00.00±00.00	00.00±00.00	13.34±01.92	29.44±15.89	Speed (’/s)	
W	Crossing expectance	0002.63	0002.35	0001.45		0000.57	0002.49	Crossing expectance	W
	Expected path (’)	1002.17	0824.81	0443.20		0145.59	1014.54	Expected path (’)	
	V (mag)	06.62±01.28	06.78±00.71	06.75±00.32		05.85±00.21	04.91±01.23	V (mag)	
	Speed (’/s)	26.21±15.11	17.68±06.25	14.95±01.48	00.00±00.00	15.77±01.28	27.20±14.49	Speed (’/s)	
N	Crossing expectance	0003.78	0002.30	0000.86	0000.81	0001.92	0002.55	Crossing expectance	N
	Expected path (’)	1453.53	0595.21	0170.26	0162.44	0534.08	1085.61	Expected path (’)	
	V (mag)	05.65±01.11	06.38±00.57	06.71±00.19	06.73±00.19	06.36±00.52	05.44±01.33	V (mag)	
	Speed (’/s)	25.18±14.80	15.36±05.42	12.07±01.53	12.14±01.53	15.34±04.95	29.28±17.80	Speed (’/s)	
E	Crossing expectance	0004.29	0000.55		0001.28	0002.89	0004.95	Crossing expectance	E
	Expected path (’)	1778.72	0144.31		0384.52	0962.67	1998.62	Expected path (’)	
	V (mag)	04.90±01.26	05.81±00.20		06.70±00.25	06.73±00.64	06.54±01.22	V (mag)	
	Speed (’/s)	28.12±15.05	16.02±01.25	00.00±00.00	14.96±01.25	17.94±06.08	25.94±14.18	Speed (’/s)	
Z	Crossing expectance	0001.65	0000.79			0000.78	0001.14	Crossing expectance	Z
	Expected path (’)	0831.05	0290.54			0291.07	0586.75	Expected path (’)	
	V (mag)	04.54±01.24	05.61±00.18			05.60±00.17	04.44±01.25	V (mag)	
	Speed (’/s)	44.06±24.76	20.58±01.42	00.00±00.00	00.00±00.00	20.66±01.39	46.13±24.86	Speed (’/s)	
Pointing directions:					S, W, N, E, at +45° 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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Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Crossing expectance	0002.38	0001.36	0000.13	0000.12	0001.22	0002.43	Crossing expectance	S
	Expected path (’)	1045.17	0377.26	0022.84	0022.56	0345.54	1068.87	Expected path (’)	
	V (mag)	05.37±01.20	06.36±00.45	06.75±00.16	06.74±00.15	06.28±00.52	05.52±01.23	V (mag)	
	Speed (’/s)	30.95±16.24	14.82±04.17	10.84±01.11	10.91±01.05	15.51±04.92	29.24±16.66	Speed (’/s)	
W	Crossing expectance	0003.57	0002.08	0001.23		0000.58	0004.64	Crossing expectance	W
	Expected path (’)	1581.87	0739.55	0367.01		0144.10	1740.82	Expected path (’)	
	V (mag)	06.30±01.17	06.78±00.73	06.83±00.34		05.88±00.23	05.06±01.14	V (mag)	
	Speed (’/s)	27.95±14.28	18.20±06.38	14.60±01.52	00.00±00.00	15.60±01.43	25.55±13.41	Speed (’/s)	
N	Crossing expectance	0003.33	0001.75			0001.66	0003.61	Crossing expectance	N
	Expected path (’)	1181.02	0489.64			0460.93	1475.94	Expected path (’)	
	V (mag)	05.49±01.14	06.27±00.22			06.26±00.26	05.10±01.20	V (mag)	
	Speed (’/s)	23.88±15.27	13.49±01.78	00.00±00.00	00.00±00.00	13.69±01.98	28.78±16.28	Speed (’/s)	
E	Crossing expectance	0003.00	0000.65		0001.29	0001.71	0002.50	Crossing expectance	E
	Expected path (’)	1152.73	0159.70		0394.70	0543.83	1132.56	Expected path (’)	
	V (mag)	05.00±01.21	05.84±00.21		06.74±00.28	06.89±00.59	06.03±01.27	V (mag)	
	Speed (’/s)	26.59±14.68	15.88±01.38	00.00±00.00	15.22±01.41	17.03±05.12	31.28±15.07	Speed (’/s)	
Z	Crossing expectance	0001.67	0000.88			0000.83	0001.51	Crossing expectance	Z
	Expected path (’)	0818.92	0337.59			0317.78	0760.06	Expected path (’)	
	V (mag)	04.65±01.28	05.60±00.17			05.61±00.17	04.55±01.27	V (mag)	
	Speed (’/s)	42.41±24.61	20.65±01.40	00.00±00.00	00.00±00.00	20.56±01.45	44.48±25.28	Speed (’/s)	
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		PM			AM			
<i>Sun elevation →</i>		-12°	-25°	-37°	-37°	-25°	-12°	<i>← Sun elevation</i>
S	Crossing expectance	0003.23	0000.93			0001.02	0004.00	Crossing expectance
	Expected path (')	1311.88	0273.53			0271.72	1643.15	Expected path (')
	V (mag)	04.86±01.17	05.98±00.23			06.04±00.24	05.23±01.15	V (mag)
	Speed ('/s)	29.52±15.58	13.73±01.95	00.00±00.00	00.00±00.00	13.35±01.91	24.69±14.26	Speed ('/s)
W	Crossing expectance	0003.06	0002.04	0000.24		0001.22	0002.53	Crossing expectance
	Expected path (')	1264.36	0619.73	0049.34		0356.96	1133.74	Expected path (')
	V (mag)	06.20±01.30	06.68±00.58	06.71±00.18		06.09±00.25	04.89±01.28	V (mag)
	Speed ('/s)	27.88±15.12	16.48±04.75	13.63±01.02	00.00±00.00	14.48±01.46	29.05±15.47	Speed ('/s)
N	Crossing expectance	0003.12	0002.59	0001.73	0001.61	0002.02	0003.06	Crossing expectance
	Expected path (')	1197.63	0867.34	0484.83	0458.94	0661.24	1260.62	Expected path (')
	V (mag)	05.86±01.19	06.56±00.79	06.81±00.30	06.78±00.32	06.75±00.58	05.78±01.30	V (mag)
	Speed ('/s)	27.76±16.05	17.49±07.31	13.74±01.75	13.88±01.82	15.33±05.35	29.61±17.20	Speed ('/s)
E	Crossing expectance	0003.88	0002.02		0000.22	0001.41	0002.81	Crossing expectance
	Expected path (')	1522.16	0589.10		0047.90	0498.29	1091.10	Expected path (')
	V (mag)	05.24±01.17	06.12±00.25		06.71±00.18	06.37±00.71	06.09±01.22	V (mag)
	Speed ('/s)	24.36±13.22	14.74±01.50	00.00±00.00	13.62±01.00	18.72±06.88	28.60±13.53	Speed ('/s)
Z	Crossing expectance	0001.45	0000.71			0000.81	0001.47	Crossing expectance
	Expected path (')	0739.69	0269.54			0302.94	0724.12	Expected path (')
	V (mag)	04.40±01.26	05.59±00.17			05.61±00.18	04.63±01.23	V (mag)
	Speed ('/s)	46.94±24.96	20.74±01.40	00.00±00.00	00.00±00.00	20.56±01.43	42.50±24.11	Speed ('/s)
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