

Constellation profile: starlink.dat  
Statistics over 0100 crossings

Latitude= +042 °		FOV= 0373 '			T= 0030 s		Sun delcination= +000 °		
		PM			AM				
Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Prob. affectance	0000.74	0000.24			0000.25	0000.79	Prob. affectance	S
	Expected path (')	0165.63	0042.31			0043.09	0168.99	Expected path (')	
	V (mag)	04.78±01.22	06.11±00.16			06.12±00.15	04.67±01.14	V (mag)	
	Speed (°/s)	36.12±17.95	13.92±01.39	00.00±00.00	00.00±00.00	13.90±01.34	37.48±17.08	Speed (°/s)	
W	Prob. affectance	0001.41	0000.43	0000.31		0000.22	0001.45	Prob. affectance	W
	Expected path (')	0329.59	0079.67	0054.53		0026.04	0327.42	Expected path (')	
	V (mag)	05.47±01.07	06.63±00.65	06.58±00.16		05.96±00.20	04.01±01.06	V (mag)	
	Speed (°/s)	35.09±11.32	17.69±05.97	14.65±00.80	00.00±00.00	14.64±00.98	34.61±11.11	Speed (°/s)	
N	Prob. affectance	0000.94	0000.72	0000.49	0000.53	0000.63	0001.06	Prob. affectance	N
	Expected path (')	0182.24	0116.34	0083.03	0088.73	0113.82	0228.63	Expected path (')	
	V (mag)	05.50±01.17	06.20±00.66	06.54±00.14	06.56±00.16	06.32±00.58	05.43±01.15	V (mag)	
	Speed (°/s)	29.58±16.49	18.85±07.22	14.92±01.54	14.76±01.68	17.48±06.34	30.35±16.52	Speed (°/s)	
E	Prob. affectance	0001.37	0000.19		0000.30	0000.39	0001.27	Prob. affectance	E
	Expected path (')	0326.98	0024.00		0056.14	0074.38	0307.69	Expected path (')	
	V (mag)	04.03±01.08	05.96±00.20		06.60±00.17	06.60±00.69	05.42±01.03	V (mag)	
	Speed (°/s)	34.48±11.41	14.60±00.96	00.00±00.00	14.68±00.91	18.00±06.08	35.11±10.88	Speed (°/s)	
Z	Prob. affectance	0000.87	0000.18			0000.18	0000.83	Prob. affectance	Z
	Expected path (')	0230.70	0036.21			0036.42	0220.83	Expected path (')	
	V (mag)	03.67±01.07	05.56±00.15			05.57±00.16	03.59±01.04	V (mag)	
	Speed (°/s)	62.24±21.96	21.00±01.35	00.00±00.00	00.00±00.00	20.93±01.40	64.07±21.31	Speed (°/s)	
Pointing directions:				S, W, N, E, at +45° elevation				Z: zenith	

**Probability of affectance:  $p$ .** If  $N$  shots are done in the same circumstances, then  $pN$  shots will be affected by traces.

**Expected path:  $L$ .** If  $N$  shots are done under the same circumstances, then  $pN$  shots will be affected and, in average, each affected shot will display a trace of length  $L/p$ .

**Average apparent magnitude:  $V$ .** Average apparent 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.

Constellation profile: starlink.dat  
Statistics over 0100 crossings

<i>Latitude= +042 °</i>		<i>FOV= 0373 '</i>			<i>T= 0030 s</i>		<i>Sun delcination= -023 °</i>		
		PM			AM				
<i>Sun elevation</i> →		-12°	-25°	-37°	-37°	-25°	-12°	← <i>Sun elevation</i>	
S	Prob. affectance	0000.74	0000.24			0000.25	0000.81	Prob. affectance	S
	Expected path (')	0158.61	0043.26			0042.99	0165.85	Expected path (')	
	V (mag)	05.12±01.20	06.42±00.16			06.41±00.15	05.01±01.13	V (mag)	
	Speed (°/s)	36.62±17.75	13.85±01.39	00.00±00.00	00.00±00.00	13.93±01.36	37.81±16.99	Speed (°/s)	
W	Prob. affectance	0001.49	0000.40	0000.31		0000.06	0001.36	Prob. affectance	W
	Expected path (')	0332.25	0079.03	0054.14		0010.07	0321.90	Expected path (')	
	V (mag)	05.50±01.13	06.79±00.59	06.77±00.17		06.10±00.06	04.07±01.06	V (mag)	
	Speed (°/s)	34.15±11.85	16.90±05.22	14.62±00.88	00.00±00.00	14.20±00.68	34.12±11.30	Speed (°/s)	
N	Prob. affectance	0000.95	0000.53			0000.53	0000.92	Prob. affectance	N
	Expected path (')	0184.79	0092.12			0090.68	0187.78	Expected path (')	
	V (mag)	05.21±01.18	06.21±00.14			06.21±00.14	05.19±01.19	V (mag)	
	Speed (°/s)	28.94±16.85	14.92±01.60	00.00±00.00	00.00±00.00	14.97±01.61	29.26±16.95	Speed (°/s)	
E	Prob. affectance	0001.49	0000.06		0000.32	0000.43	0001.32	Prob. affectance	E
	Expected path (')	0347.31	0009.38		0055.96	0077.17	0318.53	Expected path (')	
	V (mag)	04.15±01.14	06.12±00.06		06.77±00.17	06.68±00.69	05.42±01.07	V (mag)	
	Speed (°/s)	33.61±11.99	14.03±00.63	00.00±00.00	14.65±00.85	18.11±06.03	34.60±11.33	Speed (°/s)	
Z	Prob. affectance	0001.04	0000.18			0000.18	0000.93	Prob. affectance	Z
	Expected path (')	0251.20	0038.19			0036.56	0234.92	Expected path (')	
	V (mag)	03.80±01.11	05.56±00.15			05.56±00.15	03.78±01.13	V (mag)	
	Speed (°/s)	59.45±22.88	21.03±01.32	00.00±00.00	00.00±00.00	21.03±01.32	60.18±23.20	Speed (°/s)	
Pointing directions:					S, W, N, E, at +45° elevation			Z: zenith	

**Probability of affectance:  $p$ .** If  $N$  shots are done in the same circumstances, then  $pN$  shots will be affected by traces.

**Expected path:  $L$ .** If  $N$  shots are done under the same circumstances, then  $pN$  shots will be affected and, in average, each affected shot will display a trace of length  $L/p$ .

**Average apparent magnitude:  $V$ .** Average apparent 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.

Constellation profile: starlink.dat  
Statistics over 0100 crossings

Latitude= +042 °		FOV= 0373 '			T= 0030 s		Sun delcination= +023 °		
		PM			AM				
Sun elevation →		-12°	-25°	-37°	-37°	-25°	-12°	← Sun elevation	
S	Prob. affectance	0000.76	0000.05			0000.06	0000.69	Prob. affectance	S
	Expected path (')	0169.16	0006.10			0005.74	0156.07	Expected path (')	
	V (mag)	04.44±01.17	06.09±00.05			06.10±00.05	04.47±01.19	V (mag)	
	Speed (°/s)	36.76±17.35	12.10±00.27	00.00±00.00	00.00±00.00	12.09±00.28	36.55±17.61	Speed (°/s)	
W	Prob. affectance	0001.22	0000.32			0000.32	0001.33	Prob. affectance	W
	Expected path (')	0297.87	0054.59			0057.59	0324.22	Expected path (')	
	V (mag)	05.01±01.00	06.32±00.17			06.31±00.16	04.01±00.99	V (mag)	
	Speed (°/s)	35.19±10.53	14.63±00.94	00.00±00.00	00.00±00.00	14.62±00.89	36.10±10.66	Speed (°/s)	
N	Prob. affectance	0001.00	0000.70			0000.64	0000.94	Prob. affectance	N
	Expected path (')	0200.46	0126.09			0122.93	0191.87	Expected path (')	
	V (mag)	05.99±01.12	06.64±00.69			06.68±00.65	05.95±01.20	V (mag)	
	Speed (°/s)	29.19±15.73	19.24±07.44	00.00±00.00	00.00±00.00	18.83±07.05	30.47±16.95	Speed (°/s)	
E	Prob. affectance	0001.33	0000.30			0000.29	0001.42	Prob. affectance	E
	Expected path (')	0320.79	0051.86			0052.68	0330.52	Expected path (')	
	V (mag)	04.14±01.08	06.33±00.16			06.34±00.16	05.13±01.10	V (mag)	
	Speed (°/s)	34.73±11.39	14.67±00.85	00.00±00.00	00.00±00.00	14.56±00.86	34.20±11.57	Speed (°/s)	
Z	Prob. affectance	0000.92	0000.20			0000.19	0000.83	Prob. affectance	Z
	Expected path (')	0230.51	0039.04			0038.03	0217.62	Expected path (')	
	V (mag)	03.72±01.08	05.57±00.16			05.57±00.15	03.65±01.06	V (mag)	
	Speed (°/s)	60.85±22.26	20.93±01.40	00.00±00.00	00.00±00.00	20.96±01.36	62.52±21.67	Speed (°/s)	
Pointing directions:				S, W, N, E, at +45° elevation				Z: zenith	

**Probability of affectance:  $p$ .** If  $N$  shots are done in the same circumstances, then  $pN$  shots will be affected by traces.

**Expected path:  $L$ .** If  $N$  shots are done under the same circumstances, then  $pN$  shots will be affected and, in average, each affected shot will display a trace of length  $L/p$ .

**Average apparent magnitude:  $V$ .** Average apparent 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.