

Constellation profile: starlink.dat  
Statistics over 0100 crossings

<i>Latitude= +040 °</i>		<i>FOV= 0096 '</i>			<i>T= 0060 s</i>		<i>Sun delcination= +000 °</i>	
		<b>PM</b>			<b>AM</b>			
<i>Sun elevation →</i>		<b>-12°</b>	<b>-25°</b>	<b>-37°</b>	<b>-37°</b>	<b>-25°</b>	<b>-12°</b>	<i>← Sun elevation</i>
<b>S</b>	Crossing expectance	0000.26	0000.07			0000.08	0000.25	Crossing expectance
	Expected path (')	0017.91	0005.19			0005.43	0018.59	Expected path (')
	V (mag)	04.66±01.15	06.12±00.14			06.13±00.15	04.57±01.11	V (mag)
	Speed ('/s)	37.40±16.85	13.97±01.27	00.00±00.00	00.00±00.00	13.90±01.29	38.67±16.41	Speed ('/s)
<b>W</b>	Crossing expectance	0000.31	0000.15	0000.10		0000.02	0000.33	Crossing expectance
	Expected path (')	0022.34	0010.50	0006.91		0001.44	0025.05	Expected path (')
	V (mag)	05.79±01.18	06.61±00.68	06.61±00.15		06.15±00.04	04.34±01.17	V (mag)
	Speed ('/s)	32.77±13.23	18.23±06.20	14.81±00.76	00.00±00.00	14.08±00.57	32.17±13.15	Speed ('/s)
<b>N</b>	Crossing expectance	0000.38	0000.18	0000.14	0000.15	0000.19	0000.31	Crossing expectance
	Expected path (')	0024.17	0012.12	0009.39	0010.01	0012.80	0022.07	Expected path (')
	V (mag)	05.54±01.17	06.13±00.68	06.51±00.13	06.51±00.13	06.15±00.68	05.28±01.16	V (mag)
	Speed ('/s)	28.42±16.41	19.01±07.32	14.72±01.51	14.76±01.48	18.91±07.27	31.88±16.48	Speed ('/s)
<b>E</b>	Crossing expectance	0000.29	0000.03		0000.09	0000.14	0000.28	Crossing expectance
	Expected path (')	0021.63	0002.31		0006.99	0009.84	0021.94	Expected path (')
	V (mag)	04.13±01.08	06.15±00.04		06.60±00.14	06.60±00.70	05.73±01.13	V (mag)
	Speed ('/s)	34.55±12.44	14.02±00.61	00.00±00.00	14.79±00.81	18.34±06.43	33.20±12.78	Speed ('/s)
<b>Z</b>	Crossing expectance	0000.25	0000.07			0000.06	0000.21	Crossing expectance
	Expected path (')	0017.26	0004.72			0004.52	0015.03	Expected path (')
	V (mag)	04.06±01.21	05.60±00.17			05.57±00.16	04.07±01.25	V (mag)
	Speed ('/s)	54.10±24.59	20.70±01.52	00.00±00.00	00.00±00.00	20.92±01.44	54.14±25.22	Speed ('/s)
<b>Pointing directions:</b>					<b>S, W, N, E, at +45° elevation</b>			<b>Z: zenith</b>

**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	0000.25	0000.09			0000.07	0000.25	Crossing expectance	S
	Expected path (’)	0018.03	0005.63			0004.62	0017.55	Expected path (’)	
	V (mag)	04.95±01.11	06.43±00.16			06.41±00.15	05.08±01.17	V (mag)	
	Speed (’/s)	38.36±16.42	13.72±01.37	00.00±00.00	00.00±00.00	13.93±01.31	36.64±17.10	Speed (’/s)	
W	Crossing expectance	0000.32	0000.13	0000.10		0000.03	0000.31	Crossing expectance	W
	Expected path (’)	0024.10	0009.12	0007.62		0001.58	0022.92	Expected path (’)	
	V (mag)	05.67±01.16	06.57±00.72	06.77±00.15		06.13±00.04	04.47±01.19	V (mag)	
	Speed (’/s)	33.30±13.02	19.12±06.64	14.77±00.83	00.00±00.00	14.06±00.64	31.10±13.39	Speed (’/s)	
N	Crossing expectance	0000.30	0000.13			0000.14	0000.34	Crossing expectance	N
	Expected path (’)	0021.86	0008.83			0009.80	0023.36	Expected path (’)	
	V (mag)	05.10±01.19	06.18±00.11			06.20±00.13	05.09±01.17	V (mag)	
	Speed (’/s)	30.16±16.77	14.99±01.31	00.00±00.00	00.00±00.00	14.85±01.45	30.06±16.36	Speed (’/s)	
E	Crossing expectance	0000.29	0000.02		0000.10	0000.14	0000.28	Crossing expectance	E
	Expected path (’)	0020.51	0001.66		0007.12	0009.51	0020.95	Expected path (’)	
	V (mag)	04.27±01.13	06.12±00.05		06.76±00.15	06.59±00.70	05.68±01.13	V (mag)	
	Speed (’/s)	33.18±12.79	14.15±00.60	00.00±00.00	14.78±00.72	18.87±06.51	32.95±12.83	Speed (’/s)	
Z	Crossing expectance	0000.21	0000.06			0000.06	0000.18	Crossing expectance	Z
	Expected path (’)	0015.38	0004.55			0003.88	0013.07	Expected path (’)	
	V (mag)	03.93±01.18	05.58±00.16			05.55±00.14	04.06±01.23	V (mag)	
	Speed (’/s)	56.88±24.02	20.89±01.42	00.00±00.00	00.00±00.00	21.16±01.25	54.23±25.00	Speed (’/s)	
Pointing directions:					S, W, N, E, at +45° elevation			Z: zenith	

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		<b>PM</b>			<b>AM</b>			
<i>Sun elevation →</i>		<b>-12°</b>	<b>-25°</b>	<b>-37°</b>	<b>-37°</b>	<b>-25°</b>	<b>-12°</b>	<i>← Sun elevation</i>
<b>S</b>	Crossing expectance	0000.25	0000.02			0000.02	0000.27	Crossing expectance
	Expected path (')	0017.59	0001.55			0001.63	0019.99	Expected path (')
	V (mag)	04.24±01.07	06.15±00.04			06.14±00.04	04.37±01.12	V (mag)
	Speed ('/s)	39.33±15.93	11.79±00.12	00.00±00.00	00.00±00.00	11.80±00.12	37.33±16.44	Speed ('/s)
<b>W</b>	Crossing expectance	0000.32	0000.11			0000.10	0000.31	Crossing expectance
	Expected path (')	0024.04	0007.69			0006.76	0023.73	Expected path (')
	V (mag)	05.36±01.12	06.52±00.16			06.15±00.14	04.44±01.15	V (mag)
	Speed ('/s)	33.45±12.71	14.67±00.81	00.00±00.00	00.00±00.00	14.82±00.81	32.38±12.91	Speed ('/s)
<b>N</b>	Crossing expectance	0000.32	0000.19			0000.21	0000.33	Crossing expectance
	Expected path (')	0022.11	0013.53			0013.95	0023.52	Expected path (')
	V (mag)	05.83±01.18	06.59±00.69			06.65±00.67	05.89±01.17	V (mag)
	Speed ('/s)	30.99±16.63	19.02±07.35	00.00±00.00	00.00±00.00	18.37±07.17	30.05±16.46	Speed ('/s)
<b>E</b>	Crossing expectance	0000.28	0000.11			0000.10	0000.31	Crossing expectance
	Expected path (')	0020.85	0007.44			0007.33	0022.06	Expected path (')
	V (mag)	04.58±01.21	06.19±00.16			06.51±00.15	05.41±01.19	V (mag)
	Speed ('/s)	30.74±13.23	14.73±00.88	00.00±00.00	00.00±00.00	14.72±00.84	32.90±13.24	Speed ('/s)
<b>Z</b>	Crossing expectance	0000.20	0000.07			0000.07	0000.23	Crossing expectance
	Expected path (')	0014.80	0005.07			0004.83	0016.88	Expected path (')
	V (mag)	03.98±01.20	05.58±00.16			05.57±00.15	04.01±01.18	V (mag)
	Speed ('/s)	55.82±24.41	20.83±01.45	00.00±00.00	00.00±00.00	21.00±01.41	54.83±24.06	Speed ('/s)
<b>Pointing directions:</b>					<b>S, W, N, E, at +45° elevation</b>			<b>Z: zenith</b>

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