

Constellation profile: starlink.dat  
Statistics over 0100 crossings

<i>Latitude= +040 °</i>		<i>FOV= 0144 '</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	0000.40	0000.13			0000.13	0000.39	Crossing expectance
	Expected path (')	0045.35	0013.02			0012.79	0040.10	Expected path (')
	V (mag)	04.68±01.14	06.14±00.15			06.12±00.14	04.66±01.16	V (mag)
	Speed ('/s)	36.89±16.67	13.78±01.33	00.00±00.00	00.00±00.00	13.88±01.26	37.44±16.94	Speed ('/s)
<b>W</b>	Crossing expectance	0000.48	0000.23	0000.15		0000.05	0000.45	Crossing expectance
	Expected path (')	0051.60	0022.13	0014.86		0004.20	0048.09	Expected path (')
	V (mag)	05.76±01.16	06.56±00.72	06.61±00.14		06.14±00.08	04.29±01.16	V (mag)
	Speed ('/s)	33.06±13.05	18.59±06.62	14.82±00.78	00.00±00.00	14.11±00.79	32.87±12.96	Speed ('/s)
<b>N</b>	Crossing expectance	0000.53	0000.33	0000.21	0000.23	0000.29	0000.51	Crossing expectance
	Expected path (')	0053.96	0029.71	0020.00	0021.53	0027.56	0050.96	Expected path (')
	V (mag)	05.44±01.17	06.11±00.69	06.53±00.14	06.52±00.14	06.15±00.67	05.44±01.15	V (mag)
	Speed ('/s)	29.70±16.43	19.19±07.41	14.52±01.59	14.64±01.52	18.86±07.20	29.60±16.26	Speed ('/s)
<b>E</b>	Crossing expectance	0000.50	0000.04		0000.14	0000.22	0000.48	Crossing expectance
	Expected path (')	0052.26	0003.93		0013.26	0021.26	0050.84	Expected path (')
	V (mag)	04.43±01.20	06.16±00.04		06.60±00.14	06.54±00.72	05.86±01.19	V (mag)
	Speed ('/s)	31.26±13.37	14.05±00.54	00.00±00.00	14.80±00.81	18.78±06.57	31.89±13.24	Speed ('/s)
<b>Z</b>	Crossing expectance	0000.33	0000.10			0000.09	0000.31	Crossing expectance
	Expected path (')	0035.68	0010.04			0009.97	0032.86	Expected path (')
	V (mag)	04.03±01.20	05.56±00.15			05.55±00.14	04.17±01.27	V (mag)
	Speed ('/s)	54.55±24.29	21.08±01.32	00.00±00.00	00.00±00.00	21.16±01.25	52.22±25.56	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.

Constellation profile: starlink.dat  
Statistics over 0100 crossings

<i>Latitude= +040 °</i>		<i>FOV= 0144 '</i>			<i>T= 0060 s</i>		<i>Sun delcination= -023 °</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	0000.43	0000.12			0000.12	0000.44	Crossing expectance
	Expected path (')	0045.28	0012.62			0012.15	0048.39	Expected path (')
	V (mag)	05.11±01.19	06.40±00.14			06.42±00.15	04.96±01.13	V (mag)
	Speed ('/s)	36.07±17.19	13.92±01.25	00.00±00.00	00.00±00.00	13.81±01.29	38.20±16.55	Speed ('/s)
<b>W</b>	Crossing expectance	0000.52	0000.22	0000.15		0000.04	0000.48	Crossing expectance
	Expected path (')	0054.01	0022.57	0014.94		0003.57	0048.64	Expected path (')
	V (mag)	05.77±01.19	06.66±00.69	06.77±00.15		06.13±00.05	04.24±01.13	V (mag)
	Speed ('/s)	32.14±13.26	18.35±06.30	14.74±00.79	00.00±00.00	13.85±00.62	33.51±12.54	Speed ('/s)
<b>N</b>	Crossing expectance	0000.50	0000.24			0000.21	0000.53	Crossing expectance
	Expected path (')	0050.18	0023.39			0022.03	0054.93	Expected path (')
	V (mag)	05.05±01.16	06.21±00.14			06.20±00.13	04.96±01.17	V (mag)
	Speed ('/s)	30.49±16.30	14.68±01.55	00.00±00.00	00.00±00.00	14.80±01.45	31.83±16.54	Speed ('/s)
<b>E</b>	Crossing expectance	0000.49	0000.03		0000.16	0000.21	0000.50	Crossing expectance
	Expected path (')	0052.53	0003.21		0015.29	0020.27	0052.88	Expected path (')
	V (mag)	04.39±01.19	06.14±00.04		06.78±00.16	06.61±00.72	05.74±01.17	V (mag)
	Speed ('/s)	32.10±13.27	13.80±00.63	00.00±00.00	14.67±00.83	18.72±06.63	32.35±13.16	Speed ('/s)
<b>Z</b>	Crossing expectance	0000.32	0000.10			0000.10	0000.31	Crossing expectance
	Expected path (')	0034.45	0009.68			0010.31	0033.27	Expected path (')
	V (mag)	04.11±01.25	05.57±00.15			05.56±00.16	03.96±01.16	V (mag)
	Speed ('/s)	53.27±25.18	20.98±01.39	00.00±00.00	00.00±00.00	20.99±01.40	55.74±23.82	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.

Constellation profile: starlink.dat  
Statistics over 0100 crossings

<i>Latitude= +040 °</i>		<i>FOV= 0144 '</i>			<i>T= 0060 s</i>		<i>Sun delcination= +023 °</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	0000.43	0000.04			0000.04	0000.39	Crossing expectance
	Expected path (')	0046.03	0003.37			0003.28	0041.20	Expected path (')
	V (mag)	04.39±01.15	06.13±00.04			06.13±00.04	04.32±01.11	V (mag)
	Speed ('/s)	37.26±16.60	11.83±00.15	00.00±00.00	00.00±00.00	11.83±00.15	38.26±16.38	Speed ('/s)
<b>W</b>	Crossing expectance	0000.49	0000.16			0000.16	0000.49	Crossing expectance
	Expected path (')	0048.81	0016.92			0015.50	0052.23	Expected path (')
	V (mag)	05.42±01.16	06.51±00.16			06.17±00.15	04.36±01.13	V (mag)
	Speed ('/s)	32.71±13.13	14.73±00.81	00.00±00.00	00.00±00.00	14.80±00.75	33.28±12.84	Speed ('/s)
<b>N</b>	Crossing expectance	0000.50	0000.29			0000.30	0000.52	Crossing expectance
	Expected path (')	0050.26	0029.53			0029.59	0052.38	Expected path (')
	V (mag)	05.85±01.19	06.64±00.66			06.59±00.69	05.78±01.15	V (mag)
	Speed ('/s)	30.75±16.83	18.56±07.05	00.00±00.00	00.00±00.00	19.00±07.37	31.38±16.22	Speed ('/s)
<b>E</b>	Crossing expectance	0000.50	0000.17			0000.14	0000.49	Crossing expectance
	Expected path (')	0052.33	0014.94			0015.02	0054.71	Expected path (')
	V (mag)	04.47±01.17	06.16±00.15			06.47±00.13	05.48±01.19	V (mag)
	Speed ('/s)	32.08±13.23	14.71±00.81	00.00±00.00	00.00±00.00	14.85±00.86	31.97±13.36	Speed ('/s)
<b>Z</b>	Crossing expectance	0000.32	0000.10			0000.09	0000.30	Crossing expectance
	Expected path (')	0034.59	0010.89			0009.85	0034.35	Expected path (')
	V (mag)	04.09±01.28	05.57±00.16			05.55±00.14	03.93±01.15	V (mag)
	Speed ('/s)	54.14±25.61	20.92±01.41	00.00±00.00	00.00±00.00	21.17±01.26	56.54±23.60	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.