

Orbcomm View Satellite Pass Times  
 All Passes of All Satellites in Chronological Order  
 Observer: Sapporo, Japan Time zone: UTC +9 Mask Elev: 5-

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B1 (FM13)	12/05/18	08:55:49	09:09:10	00:13:20	11:55:49	229-	52-	74-	71909
D6 (FM34)	12/05/18	09:07:15	09:15:48	00:06:37	-----	266-	12-	186-	64975
B6 (FM18)	12/05/18	09:10:27	09:23:44	00:07:56	-----	237-	64-	74-	71910
B7 (FM19)	12/05/18	09:24:01	09:37:22	00:13:20	00:00:16	242-	72-	74-	71910
D7 (FM35)	12/05/18	09:27:52	09:34:30	00:02:05	-----	258-	9-	200-	64975
A5 (FM09)	12/05/18	09:34:32	09:37:56	00:03:23	00:00:02	141-	6-	112-	75331
B8 (FM20)	12/05/18	09:40:16	09:53:38	00:13:21	00:02:20	247-	80-	74-	71910
A7 (FM11)	12/05/18	09:45:03	09:51:02	00:02:03	-----	159-	8-	101-	75331
B4 (FM16)	12/05/18	09:55:48	10:09:12	00:13:24	00:04:45	250-	85-	75-	71910
A6 (FM10)	12/05/18	09:56:04	10:03:20	00:05:05	-----	167-	10-	96-	75331
A2 (FM06)	12/05/18	10:08:47	10:17:31	00:08:43	00:05:26	177-	13-	91-	75331
B3 (FM15)	12/05/18	10:11:21	10:24:47	00:07:16	-----	254-	88-	76-	71910
A1 (FM05)	12/05/18	10:21:52	10:31:32	00:06:45	-----	184-	16-	87-	75330
B2 (FM14)	12/05/18	10:25:55	10:39:20	00:07:47	-----	259-	83-	77-	71910
A3 (FM07)	12/05/18	10:33:29	10:43:51	00:04:30	-----	191-	18-	84-	75331
B1 (FM13)	12/05/18	10:41:33	10:54:59	00:11:08	-----	262-	79-	79-	71910
A4 (FM08)	12/05/18	10:46:43	10:57:50	00:02:51	-----	199-	23-	83-	75332
B6 (FM18)	12/05/18	10:56:17	11:09:42	00:11:51	-----	268-	74-	82-	71911
A8 (FM12)	12/05/18	11:00:46	11:12:26	00:02:43	-----	205-	27-	79-	75332
B7 (FM19)	12/05/18	11:09:56	11:23:21	00:10:55	-----	271-	73-	84-	71911
A5 (FM09)	12/05/18	11:14:30	11:26:32	00:03:11	-----	211-	32-	79-	75332
A7 (FM11)	12/05/18	11:26:13	11:38:32	00:11:59	-----	216-	36-	76-	75332
B8 (FM20)	12/05/18	11:26:16	11:39:39	00:01:07	-----	274-	72-	87-	71911
A6 (FM10)	12/05/18	11:37:51	11:50:21	00:10:42	-----	220-	41-	75-	75332
B4 (FM16)	12/05/18	11:41:50	11:55:15	00:04:53	-----	276-	73-	89-	71911
A2 (FM06)	12/05/18	11:51:20	12:04:03	00:08:48	-----	226-	47-	74-	75332
B3 (FM15)	12/05/18	11:57:26	12:10:51	00:06:48	-----	278-	74-	92-	71911
C5 (FM25)	12/05/18	11:59:58	12:04:20	00:06:03	-----	148-	6-	109-	71231
A1 (FM05)	12/05/18	12:04:54	12:17:46	00:12:52	00:00:34	231-	54-	74-	75331
G2 (FM04)	12/05/18	12:11:54	12:20:52	00:03:05	-----	86-	14-	358-	74145
B2 (FM14)	12/05/18	12:12:01	12:25:25	00:04:33	-----	280-	76-	96-	71911
A3 (FM07)	12/05/18	12:16:54	12:29:53	00:04:27	-----	235-	61-	74-	75332
C1 (FM21)	12/05/18	12:25:19	12:33:33	00:03:39	-----	171-	11-	97-	71231
B1 (FM13)	12/05/18	12:27:39	12:41:05	00:07:31	-----	282-	80-	99-	71911
A4 (FM08)	12/05/18	12:30:37	12:43:40	00:02:35	-----	241-	71-	74-	75333
C7 (FM27)	12/05/18	12:39:00	12:48:34	00:04:54	-----	181-	15-	88-	71231
C4 (FM24)	12/05/18	12:40:19	12:49:44	00:01:09	-----	180-	14-	88-	71231
B6 (FM18)	12/05/18	12:42:21	12:55:46	00:06:02	-----	284-	88-	105-	71912
A8 (FM12)	12/05/18	12:45:00	12:58:08	00:02:21	-----	246-	78-	74-	75333
C3 (FM23)	12/05/18	12:49:35	12:59:44	00:01:36	-----	186-	17-	85-	71231
B7 (FM19)	12/05/18	12:56:00	13:09:24	00:09:39	-----	285-	87-	109-	71912
A5 (FM09)	12/05/18	12:58:59	13:12:10	00:02:46	-----	250-	85-	75-	75333
A7 (FM11)	12/05/18	13:10:55	13:24:06	00:11:56	-----	253-	89-	76-	75333
B8 (FM20)	12/05/18	13:12:17	13:25:39	00:01:32	-----	286-	79-	114-	71912
C2 (FM22)	12/05/18	13:13:43	13:25:03	00:00:03	-----	198-	23-	82-	71231
A6 (FM10)	12/05/18	13:22:43	13:35:54	00:10:50	-----	256-	85-	76-	75333
B4 (FM16)	12/05/18	13:27:50	13:41:11	00:05:16	-----	286-	73-	117-	71912
A2 (FM06)	12/05/18	13:36:24	13:49:34	00:08:23	-----	260-	80-	78-	75333

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C5 (FM25)	12/05/18	13:40:39	13:52:59	00:03:24	-----	212-	33-	77-	71232
B3 (FM15)	12/05/18	13:43:24	13:56:41	00:03:42	-----	286-	65-	122-	71912
G2 (FM04)	12/05/18	13:47:45	14:00:36	00:03:55	-----	142-	66-	338-	74146
A1 (FM05)	12/05/18	13:50:07	14:03:18	00:02:41	-----	264-	77-	79-	75332
B2 (FM14)	12/05/18	13:57:58	14:11:07	00:07:49	-----	286-	57-	127-	71912
A3 (FM07)	12/05/18	14:02:14	14:15:25	00:04:17	-----	267-	75-	81-	75333
C1 (FM21)	12/05/18	14:07:53	14:20:44	00:05:18	-----	223-	44-	76-	71232
B1 (FM13)	12/05/18	14:13:36	14:26:37	00:05:53	-----	285-	50-	132-	71912
A4 (FM08)	12/05/18	14:16:05	14:29:13	00:02:36	-----	271-	72-	83-	75334
C7 (FM27)	12/05/18	14:22:16	14:35:20	00:06:06	-----	229-	52-	74-	71232
C4 (FM24)	12/05/18	14:23:30	14:36:32	00:01:12	-----	228-	51-	74-	71232
B6 (FM18)	12/05/18	14:28:20	14:40:59	00:04:27	-----	284-	39-	141-	71913
A8 (FM12)	12/05/18	14:30:32	14:43:43	00:02:44	-----	273-	72-	86-	75334
C3 (FM23)	12/05/18	14:33:09	14:46:18	00:02:35	-----	232-	57-	74-	71232
B7 (FM19)	12/05/18	14:42:01	14:54:23	00:08:04	-----	283-	34-	147-	71913
A5 (FM09)	12/05/18	14:44:35	14:57:47	00:03:24	-----	276-	72-	88-	75334
A7 (FM11)	12/05/18	14:56:33	15:09:45	00:11:57	-----	278-	73-	91-	75334
C2 (FM22)	12/05/18	14:58:00	15:11:18	00:01:33	-----	241-	70-	74-	71232
B8 (FM20)	12/05/18	14:58:24	15:10:20	00:00:05	-----	281-	28-	154-	71913
A6 (FM10)	12/05/18	15:08:22	15:21:33	00:11:13	-----	279-	74-	93-	75334
B4 (FM16)	12/05/18	15:14:02	15:25:36	00:04:02	-----	279-	25-	158-	71913
A2 (FM06)	12/05/18	15:22:03	15:35:14	00:09:38	-----	281-	77-	97-	75334
C5 (FM25)	12/05/18	15:25:35	15:39:00	00:03:46	-----	250-	86-	75-	71233
G2 (FM04)	12/05/18	15:27:56	15:38:30	00:00:02	-----	200-	20-	310-	74147
B3 (FM15)	12/05/18	15:29:46	15:40:45	00:02:14	-----	277-	21-	165-	71913
A1 (FM05)	12/05/18	15:35:47	15:48:58	00:08:13	-----	283-	81-	100-	75333
B2 (FM14)	12/05/18	15:44:33	15:54:42	00:05:43	-----	273-	17-	173-	71913
A3 (FM07)	12/05/18	15:47:53	16:01:05	00:06:23	-----	284-	85-	103-	75334
C1 (FM21)	12/05/18	15:53:16	16:06:41	00:05:35	-----	258-	83-	77-	71233
B1 (FM13)	12/05/18	16:00:28	16:09:41	00:03:00	-----	269-	14-	181-	71913
A4 (FM08)	12/05/18	16:01:41	16:14:52	00:05:11	-----	285-	88-	108-	75335
C7 (FM27)	12/05/18	16:07:52	16:21:17	00:06:24	-----	262-	79-	79-	71233
C4 (FM24)	12/05/18	16:09:03	16:22:28	00:01:11	-----	262-	79-	78-	71233
B6 (FM18)	12/05/18	16:16:00	16:22:55	00:00:26	-----	259-	9-	198-	71914
A8 (FM12)	12/05/18	16:16:07	16:29:18	00:06:23	-----	286-	81-	113-	75335
C3 (FM23)	12/05/18	16:18:50	16:32:15	00:02:56	-----	265-	76-	80-	71233
A5 (FM09)	12/05/18	16:30:09	16:43:19	00:11:03	-----	286-	74-	117-	75335
B7 (FM19)	12/05/18	16:30:28	16:35:19	00:07:05	-----	250-	7-	211-	71914
A7 (FM11)	12/05/18	16:42:05	16:55:12	00:13:06	00:06:46	286-	67-	121-	75335
C2 (FM22)	12/05/18	16:43:52	16:57:16	00:02:04	-----	270-	73-	83-	71233
A6 (FM10)	12/05/18	16:53:53	17:06:55	00:09:39	-----	286-	62-	124-	75335
A2 (FM06)	12/05/18	17:07:34	17:20:27	00:12:53	00:00:38	286-	54-	129-	75335
C5 (FM25)	12/05/18	17:11:37	17:25:02	00:04:34	-----	276-	73-	89-	71234
A1 (FM05)	12/05/18	17:21:18	17:34:02	00:09:00	-----	285-	47-	134-	75334
A3 (FM07)	12/05/18	17:33:25	17:46:00	00:11:57	-----	284-	41-	139-	75335
C1 (FM21)	12/05/18	17:39:21	17:52:45	00:06:45	-----	280-	76-	95-	71234
A4 (FM08)	12/05/18	17:47:15	17:59:29	00:06:44	-----	283-	34-	147-	75336
C7 (FM27)	12/05/18	17:53:57	18:07:23	00:07:53	-----	282-	80-	99-	71234
C4 (FM24)	12/05/18	17:55:09	18:08:34	00:01:11	-----	282-	79-	98-	71234
A8 (FM12)	12/05/18	18:01:46	18:13:39	00:05:05	-----	281-	29-	151-	75336

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C3 (FM23)	12/05/18	18:04:55	18:18:20	00:04:40	-----	283-	82-	101-	71234
A5 (FM09)	12/05/18	18:15:54	18:27:24	00:09:03	-----	280-	25-	158-	75336
A7 (FM11)	12/05/18	18:27:58	18:38:57	00:11:00	00:00:34	277-	22-	163-	75336
C2 (FM22)	12/05/18	18:29:55	18:43:20	00:04:22	-----	285-	88-	108-	71234
A6 (FM10)	12/05/18	18:39:53	18:50:24	00:07:04	-----	275-	19-	168-	75336
A2 (FM06)	12/05/18	18:53:49	19:03:27	00:09:37	00:03:25	271-	15-	177-	75336
C5 (FM25)	12/05/18	18:57:36	19:10:58	00:07:30	-----	286-	73-	117-	71235
A1 (FM05)	12/05/18	19:07:51	19:16:31	00:05:33	-----	267-	13-	185-	75335
A3 (FM07)	12/05/18	19:20:22	19:27:53	00:07:31	00:03:50	262-	10-	192-	75336
C1 (FM21)	12/05/18	19:25:17	19:38:28	00:10:34	-----	286-	58-	127-	71235
A4 (FM08)	12/05/18	19:35:08	19:40:10	00:01:42	-----	254-	7-	207-	75337
C7 (FM27)	12/05/18	19:39:54	19:52:56	00:12:45	-----	285-	50-	132-	71235
C4 (FM24)	12/05/18	19:41:05	19:54:08	00:01:12	-----	286-	51-	132-	71235
C3 (FM23)	12/05/18	19:50:52	20:03:45	00:09:37	-----	285-	45-	136-	71235
C2 (FM22)	12/05/18	20:15:55	20:28:22	00:12:27	00:12:09	283-	35-	146-	71235
C5 (FM25)	12/05/18	20:43:48	20:55:23	00:11:35	00:15:25	279-	25-	158-	71236
C1 (FM21)	12/05/18	21:11:49	21:22:08	00:10:18	00:16:26	274-	17-	172-	71236
C7 (FM27)	12/05/18	21:26:46	21:36:02	00:09:15	00:04:38	269-	14-	181-	71236
C4 (FM24)	12/05/18	21:27:53	21:37:19	00:01:16	-----	270-	14-	179-	71236
C3 (FM23)	12/05/18	21:37:57	21:46:25	00:08:27	00:00:38	266-	12-	187-	71236
C2 (FM22)	12/05/18	22:04:05	22:09:38	00:05:33	00:17:39	256-	7-	203-	71236
D3 (FM31)	12/05/18	23:05:20	23:12:46	00:07:26	00:55:42	167-	10-	99-	64983
D2 (FM30)	12/05/18	23:26:27	23:34:53	00:08:26	00:13:40	173-	12-	93-	64983
D6 (FM34)	12/05/18	23:47:32	23:57:01	00:09:29	00:12:38	181-	15-	88-	64984
D7 (FM35)	12/05/19	00:06:39	00:17:14	00:10:34	00:09:38	191-	19-	83-	64984
D8 (FM36)	12/05/19	00:26:30	00:38:11	00:11:41	00:09:15	200-	26-	79-	64984
D3 (FM31)	12/05/19	00:47:31	01:00:14	00:12:43	00:09:19	220-	41-	75-	64984
D2 (FM30)	12/05/19	01:09:08	01:22:01	00:12:52	00:08:53	224-	45-	75-	64984
D6 (FM34)	12/05/19	01:30:45	01:43:48	00:13:03	00:08:44	229-	52-	74-	64985
D7 (FM35)	12/05/19	01:50:29	02:03:42	00:13:13	00:06:40	235-	61-	74-	64985
D8 (FM36)	12/05/19	02:10:58	02:24:22	00:13:23	00:07:16	243-	75-	74-	64985
D3 (FM31)	12/05/19	02:32:48	02:46:12	00:13:24	00:08:26	256-	86-	76-	64985
D2 (FM30)	12/05/19	02:54:33	03:07:58	00:13:24	00:08:20	259-	82-	77-	64985
D6 (FM34)	12/05/19	03:16:20	03:29:45	00:13:25	00:08:22	262-	79-	78-	64986
D7 (FM35)	12/05/19	03:36:15	03:49:39	00:13:24	00:06:29	266-	75-	81-	64986
G2 (FM04)	12/05/19	03:41:26	03:53:30	00:03:50	-----	37-	37-	180-	74154
D8 (FM36)	12/05/19	03:56:56	04:10:22	00:13:26	00:03:25	272-	72-	84-	64986
D3 (FM31)	12/05/19	04:18:53	04:32:17	00:13:23	00:08:31	279-	74-	93-	64986
D2 (FM30)	12/05/19	04:40:39	04:54:03	00:13:24	00:08:21	280-	76-	95-	64986
D6 (FM34)	12/05/19	05:02:26	05:15:51	00:13:25	00:08:22	282-	79-	99-	64987
G2 (FM04)	12/05/19	05:20:06	05:32:05	00:11:59	00:04:14	16-	37-	238-	74155
D7 (FM35)	12/05/19	05:22:20	05:35:45	00:03:39	-----	284-	85-	103-	64987
D8 (FM36)	12/05/19	05:42:58	05:56:24	00:13:26	00:07:12	285-	85-	111-	64987
D3 (FM31)	12/05/19	06:04:51	06:18:05	00:13:13	00:08:26	286-	62-	124-	64987
B3 (FM15)	12/05/19	06:13:20	06:18:41	00:00:36	-----	153-	7-	106-	71922
D2 (FM30)	12/05/19	06:26:36	06:39:45	00:13:09	00:07:54	286-	57-	127-	64987
B2 (FM14)	12/05/19	06:26:37	06:34:06	00:05:03	-----	167-	10-	98-	71922
B1 (FM13)	12/05/19	06:41:22	06:50:14	00:08:52	00:07:15	176-	13-	91-	71922
D6 (FM34)	12/05/19	06:48:23	07:01:25	00:11:11	-----	286-	50-	132-	64988
B6 (FM18)	12/05/19	06:54:57	07:05:25	00:04:00	-----	189-	18-	84-	71923

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
G2 (FM04)	12/05/19	07:00:32	07:06:23	00:00:58	-----	354-	8-	301-	74156
B7 (FM19)	12/05/19	07:08:08	07:19:13	00:11:05	00:01:44	196-	21-	81-	71923
D7 (FM35)	12/05/19	07:08:18	07:21:04	00:01:50	-----	285-	42-	139-	64988
B8 (FM20)	12/05/19	07:23:59	07:35:39	00:11:40	00:02:54	203-	26-	79-	71923
D8 (FM36)	12/05/19	07:29:01	07:41:18	00:05:38	-----	283-	32-	150-	64988
B4 (FM16)	12/05/19	07:39:15	07:51:18	00:10:00	-----	208-	29-	77-	71923
D3 (FM31)	12/05/19	07:51:16	08:01:57	00:10:39	-----	276-	19-	168-	64988
B3 (FM15)	12/05/19	07:54:30	08:06:57	00:04:59	-----	214-	35-	76-	71923
B2 (FM14)	12/05/19	08:08:49	08:21:33	00:12:44	00:01:52	220-	41-	75-	71923
D2 (FM30)	12/05/19	08:13:10	08:23:22	00:01:48	-----	273-	17-	174-	64988
B1 (FM13)	12/05/19	08:24:15	08:37:13	00:12:58	00:00:53	226-	47-	74-	71923
D6 (FM34)	12/05/19	08:35:12	08:44:35	00:07:21	-----	270-	14-	180-	64989
B6 (FM18)	12/05/19	08:38:42	08:51:55	00:07:20	-----	234-	59-	74-	71924
B7 (FM19)	12/05/19	08:52:15	09:05:33	00:13:17	00:00:19	239-	66-	74-	71924
D7 (FM35)	12/05/19	08:55:39	09:03:25	00:02:07	-----	263-	10-	193-	64989
B8 (FM20)	12/05/19	09:08:29	09:21:49	00:13:20	00:05:04	244-	75-	74-	71924
D8 (FM36)	12/05/19	09:17:56	09:21:41	00:00:08	-----	249-	6-	212-	64989
A6 (FM10)	12/05/19	09:19:50	09:24:57	00:03:15	-----	152-	7-	106-	75345
B4 (FM16)	12/05/19	09:24:00	09:37:24	00:12:26	-----	247-	81-	74-	71924
A2 (FM06)	12/05/19	09:32:14	09:39:28	00:02:04	-----	167-	10-	99-	75345
B3 (FM15)	12/05/19	09:39:32	09:52:58	00:13:25	00:00:04	252-	88-	75-	71924
A1 (FM05)	12/05/19	09:45:07	09:53:39	00:00:41	-----	176-	12-	92-	75344
B2 (FM14)	12/05/19	09:54:06	10:07:32	00:13:25	00:00:26	256-	86-	76-	71924
A3 (FM07)	12/05/19	09:56:37	10:06:05	00:01:02	-----	183-	15-	88-	75345
A4 (FM08)	12/05/19	10:09:43	10:20:09	00:10:26	00:03:38	189-	19-	85-	75346
B1 (FM13)	12/05/19	10:09:44	10:23:10	00:03:01	-----	260-	81-	78-	71924
A8 (FM12)	12/05/19	10:23:40	10:34:46	00:11:06	00:00:29	199-	23-	80-	75346
B6 (FM18)	12/05/19	10:24:27	10:37:52	00:03:06	-----	266-	76-	81-	71925
A5 (FM09)	12/05/19	10:37:22	10:48:56	00:11:03	-----	202-	26-	79-	75346
B7 (FM19)	12/05/19	10:38:06	10:51:31	00:02:34	-----	269-	74-	82-	71925
A7 (FM11)	12/05/19	10:49:00	11:00:56	00:09:25	-----	210-	31-	77-	75346
B8 (FM20)	12/05/19	10:54:27	11:07:49	00:06:52	-----	272-	72-	85-	71925
A6 (FM10)	12/05/19	11:00:35	11:12:47	00:04:58	-----	214-	34-	76-	75346
B4 (FM16)	12/05/19	11:10:01	11:23:25	00:10:37	-----	274-	72-	87-	71925
A2 (FM06)	12/05/19	11:14:01	11:26:30	00:03:05	-----	220-	40-	75-	75346
B3 (FM15)	12/05/19	11:25:36	11:39:00	00:12:30	-----	277-	73-	90-	71925
A1 (FM05)	12/05/19	11:27:33	11:40:15	00:01:14	-----	225-	47-	75-	75345
A3 (FM07)	12/05/19	11:39:32	11:52:23	00:12:07	-----	230-	53-	74-	75346
B2 (FM14)	12/05/19	11:40:12	11:53:36	00:01:13	-----	279-	75-	93-	71925
G2 (FM04)	12/05/19	11:48:12	11:54:40	00:01:03	-----	67-	9-	6-	74159
A4 (FM08)	12/05/19	11:53:11	12:06:09	00:11:28	-----	236-	62-	74-	75347
C1 (FM21)	12/05/19	11:54:03	12:01:13	00:04:05	-----	166-	9-	98-	71245
B1 (FM13)	12/05/19	11:55:50	12:09:16	00:08:02	-----	281-	77-	97-	71925
A8 (FM12)	12/05/19	12:07:32	12:20:36	00:11:20	-----	241-	70-	74-	75347
C7 (FM27)	12/05/19	12:07:43	12:16:33	00:04:03	-----	176-	13-	91-	71245
C4 (FM24)	12/05/19	12:08:56	12:17:34	00:01:01	-----	175-	12-	92-	71245
B6 (FM18)	12/05/19	12:10:32	12:23:58	00:06:23	-----	283-	84-	103-	71926
C3 (FM23)	12/05/19	12:18:04	12:27:36	00:03:37	-----	181-	15-	88-	71245
A5 (FM09)	12/05/19	12:21:31	12:34:40	00:07:03	-----	245-	77-	74-	75347
B7 (FM19)	12/05/19	12:24:10	12:37:35	00:02:55	-----	284-	89-	106-	71926

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A7 (FM11)	12/05/19	12:33:26	12:46:35	00:09:00	-----	249-	83-	75-	75347
B8 (FM20)	12/05/19	12:40:28	12:53:51	00:07:15	-----	285-	84-	111-	71926
C2 (FM22)	12/05/19	12:42:05	12:53:00	00:00:05	-----	194-	20-	84-	71245
A6 (FM10)	12/05/19	12:45:12	12:58:23	00:05:22	-----	252-	88-	75-	75347
B4 (FM16)	12/05/19	12:56:01	13:09:24	00:11:01	-----	286-	78-	114-	71926
A2 (FM06)	12/05/19	12:58:52	13:12:03	00:02:38	-----	256-	86-	76-	75347
C5 (FM25)	12/05/19	13:08:55	13:20:58	00:08:55	-----	208-	29-	77-	71246
B3 (FM15)	12/05/19	13:11:35	13:24:55	00:03:56	-----	286-	70-	119-	71926
A1 (FM05)	12/05/19	13:12:36	13:25:47	00:00:52	-----	260-	81-	77-	75346
G2 (FM04)	12/05/19	13:22:42	13:34:58	00:09:11	-----	125-	40-	344-	74160
A3 (FM07)	12/05/19	13:24:43	13:37:54	00:02:56	-----	263-	78-	79-	75347
B2 (FM14)	12/05/19	13:26:09	13:39:23	00:01:28	-----	286-	62-	124-	71926
C1 (FM21)	12/05/19	13:36:05	13:48:46	00:09:22	-----	219-	40-	76-	71246
A4 (FM08)	12/05/19	13:38:32	13:51:41	00:02:55	-----	267-	74-	81-	75348
B1 (FM13)	12/05/19	13:41:47	13:54:55	00:03:13	-----	286-	54-	129-	71926
C7 (FM27)	12/05/19	13:50:36	14:03:32	00:08:37	-----	225-	47-	74-	71246
C4 (FM24)	12/05/19	13:51:43	14:04:37	00:01:05	-----	225-	46-	74-	71246
A8 (FM12)	12/05/19	13:53:00	14:06:10	00:01:32	-----	270-	72-	83-	75348
B6 (FM18)	12/05/19	13:56:30	14:09:19	00:03:08	-----	285-	43-	138-	71927
C3 (FM23)	12/05/19	14:01:18	14:14:21	00:05:02	-----	229-	52-	74-	71246
A5 (FM09)	12/05/19	14:07:03	14:20:14	00:05:53	-----	273-	72-	85-	75348
B7 (FM19)	12/05/19	14:10:10	14:22:44	00:02:29	-----	284-	37-	143-	71927
A7 (FM11)	12/05/19	14:19:01	14:32:12	00:09:27	-----	275-	72-	88-	75348
C2 (FM22)	12/05/19	14:26:06	14:39:21	00:07:09	-----	237-	64-	74-	71246
B8 (FM20)	12/05/19	14:26:32	14:38:45	00:00:03	-----	282-	31-	149-	71927
A6 (FM10)	12/05/19	14:30:50	14:44:00	00:05:15	-----	277-	72-	90-	75348
B4 (FM16)	12/05/19	14:42:09	14:54:03	00:10:02	-----	281-	28-	154-	71927
A2 (FM06)	12/05/19	14:44:31	14:57:41	00:03:38	-----	279-	74-	93-	75348
C5 (FM25)	12/05/19	14:53:39	15:07:04	00:09:22	-----	247-	81-	74-	71247
B3 (FM15)	12/05/19	14:57:50	15:09:14	00:02:10	-----	278-	23-	161-	71927
A1 (FM05)	12/05/19	14:58:15	15:11:26	00:02:12	-----	281-	77-	96-	75347
G2 (FM04)	12/05/19	15:01:27	15:13:35	00:02:08	-----	181-	35-	321-	74161
A3 (FM07)	12/05/19	15:10:23	15:23:35	00:10:00	-----	282-	80-	99-	75348
B2 (FM14)	12/05/19	15:12:35	15:23:16	00:00:01	-----	275-	19-	168-	71927
C1 (FM21)	12/05/19	15:21:19	15:34:44	00:11:27	-----	255-	87-	76-	71247
A4 (FM08)	12/05/19	15:24:10	15:37:21	00:02:37	-----	284-	86-	104-	75349
B1 (FM13)	12/05/19	15:28:27	15:38:21	00:00:59	-----	272-	16-	176-	71927
C7 (FM27)	12/05/19	15:36:05	15:49:30	00:11:09	-----	260-	81-	78-	71247
C4 (FM24)	12/05/19	15:37:09	15:50:34	00:01:04	-----	259-	82-	77-	71247
A8 (FM12)	12/05/19	15:38:36	15:51:49	00:01:14	-----	285-	88-	108-	75349
B6 (FM18)	12/05/19	15:43:46	15:51:47	00:00:01	-----	264-	11-	191-	71928
C3 (FM23)	12/05/19	15:46:53	16:00:18	00:08:31	-----	262-	79-	79-	71247
A5 (FM09)	12/05/19	15:52:39	16:05:51	00:05:33	-----	285-	82-	112-	75349
B7 (FM19)	12/05/19	15:58:00	16:04:27	00:01:02	-----	257-	8-	201-	71928
A7 (FM11)	12/05/19	16:04:35	16:17:45	00:13:09	00:00:07	286-	76-	116-	75349
C2 (FM22)	12/05/19	16:11:54	16:25:19	00:07:33	-----	268-	74-	81-	71247
B8 (FM20)	12/05/19	16:15:39	16:18:54	00:06:02	-----	247-	6-	215-	71928
A6 (FM10)	12/05/19	16:16:22	16:29:30	00:10:36	-----	286-	70-	119-	75349
A2 (FM06)	12/05/19	16:30:03	16:43:03	00:13:00	00:00:33	286-	62-	124-	75349
C5 (FM25)	12/05/19	16:39:39	16:53:04	00:10:00	-----	274-	72-	87-	71248

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A1 (FM05)	12/05/19	16:43:46	16:56:41	00:03:36	-----	286-	55-	129-	75348
A3 (FM07)	12/05/19	16:55:54	17:08:41	00:12:00	-----	285-	49-	133-	75349
C1 (FM21)	12/05/19	17:07:23	17:20:47	00:12:06	-----	279-	74-	92-	71248
A4 (FM08)	12/05/19	17:09:42	17:22:13	00:01:26	-----	284-	40-	141-	75350
C7 (FM27)	12/05/19	17:22:10	17:35:35	00:13:22	-----	281-	77-	97-	71248
C4 (FM24)	12/05/19	17:23:15	17:36:39	00:01:03	-----	281-	77-	96-	71248
A8 (FM12)	12/05/19	17:24:11	17:36:27	00:00:01	-----	283-	35-	145-	75350
C3 (FM23)	12/05/19	17:32:58	17:46:23	00:09:56	-----	282-	80-	99-	71248
A5 (FM09)	12/05/19	17:38:17	17:50:15	00:03:52	-----	282-	30-	151-	75350
A7 (FM11)	12/05/19	17:50:18	18:01:53	00:11:34	00:00:03	280-	26-	156-	75350
C2 (FM22)	12/05/19	17:57:58	18:11:23	00:09:30	-----	284-	88-	105-	71248
A6 (FM10)	12/05/19	18:02:11	18:13:23	00:02:00	-----	278-	23-	160-	75350
A2 (FM06)	12/05/19	18:16:02	18:26:33	00:10:30	00:02:39	275-	19-	169-	75350
C5 (FM25)	12/05/19	18:25:39	18:39:03	00:12:30	-----	286-	78-	114-	71249
A1 (FM05)	12/05/19	18:30:00	18:39:45	00:00:41	-----	272-	16-	176-	75349
A3 (FM07)	12/05/19	18:42:23	18:51:20	00:08:56	00:02:37	268-	13-	182-	75350
C1 (FM21)	12/05/19	18:53:21	19:06:35	00:13:14	00:02:00	286-	64-	123-	71249
A4 (FM08)	12/05/19	18:56:44	19:04:00	00:02:03	-----	262-	10-	195-	75351
C7 (FM27)	12/05/19	19:08:07	19:21:15	00:13:07	00:04:06	286-	54-	129-	71249
C4 (FM24)	12/05/19	19:09:11	19:22:20	00:01:04	-----	286-	56-	128-	71249
A8 (FM12)	12/05/19	19:11:57	19:17:17	00:05:02	-----	252-	7-	207-	75351
C3 (FM23)	12/05/19	19:18:54	19:31:55	00:13:01	00:01:36	286-	50-	132-	71249
A5 (FM09)	12/05/19	19:27:28	19:29:29	00:02:02	-----	243-	5-	219-	75351
C2 (FM22)	12/05/19	19:43:56	19:56:36	00:12:39	00:14:26	284-	39-	142-	71249
C5 (FM25)	12/05/19	20:11:46	20:23:41	00:11:55	00:15:10	281-	28-	154-	71250
C1 (FM21)	12/05/19	20:39:43	20:50:33	00:10:49	00:16:02	276-	20-	168-	71250
C7 (FM27)	12/05/19	20:54:47	21:04:43	00:09:56	00:04:14	272-	16-	175-	71250
C4 (FM24)	12/05/19	20:55:47	21:05:52	00:01:08	-----	273-	16-	174-	71250
C3 (FM23)	12/05/19	21:05:44	21:15:01	00:09:08	-----	269-	14-	180-	71250
C2 (FM22)	12/05/19	21:31:34	21:38:32	00:06:58	00:16:32	261-	9-	195-	71250
D3 (FM31)	12/05/19	22:34:20	22:40:31	00:06:11	00:55:47	161-	8-	105-	64997
D2 (FM30)	12/05/19	22:55:17	23:02:43	00:07:25	00:14:46	167-	10-	98-	64997
D6 (FM34)	12/05/19	23:16:15	23:25:00	00:08:44	00:13:32	176-	13-	91-	64998
D7 (FM35)	12/05/19	23:35:15	23:45:17	00:10:02	00:10:15	186-	16-	86-	64998
D8 (FM36)	12/05/19	23:54:59	00:06:18	00:11:19	00:09:41	196-	23-	82-	64998
D3 (FM31)	12/05/20	00:15:53	00:28:26	00:12:32	00:09:35	216-	37-	76-	64998
D2 (FM30)	12/05/20	00:37:29	00:50:12	00:12:43	00:09:03	220-	41-	75-	64998
D6 (FM34)	12/05/20	00:59:05	01:12:01	00:12:56	00:08:52	225-	47-	74-	64999
D7 (FM35)	12/05/20	01:18:46	01:31:54	00:13:08	00:06:45	232-	56-	74-	64999
D8 (FM36)	12/05/20	01:39:13	01:52:34	00:13:20	00:07:18	240-	70-	74-	64999
D3 (FM31)	12/05/20	02:01:01	02:14:25	00:13:24	00:08:26	253-	90-	75-	64999
D2 (FM30)	12/05/20	02:22:46	02:36:11	00:13:24	00:08:20	256-	86-	76-	64999
D6 (FM34)	12/05/20	02:44:33	02:57:58	00:13:25	00:08:22	260-	81-	77-	65000
D7 (FM35)	12/05/20	03:04:27	03:17:51	00:13:24	00:06:28	264-	77-	79-	65000
G2 (FM04)	12/05/20	03:16:28	03:27:04	00:09:13	-----	46-	21-	160-	74168
D8 (FM36)	12/05/20	03:25:07	03:38:33	00:11:28	-----	270-	73-	83-	65000
D3 (FM31)	12/05/20	03:47:06	04:00:29	00:13:23	00:08:32	278-	73-	91-	65000
D2 (FM30)	12/05/20	04:08:51	04:22:15	00:13:24	00:08:22	279-	74-	93-	65000
D6 (FM34)	12/05/20	04:30:39	04:44:04	00:13:25	00:08:23	281-	77-	96-	65001
D7 (FM35)	12/05/20	04:50:32	05:03:57	00:13:25	00:06:28	283-	82-	101-	65001

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
G2 (FM04)	12/05/20	04:54:26	05:07:05	00:03:07	-----	22-	61-	221-	74169
D8 (FM36)	12/05/20	05:11:10	05:24:37	00:13:27	00:04:05	285-	89-	108-	65001
D3 (FM31)	12/05/20	05:33:04	05:46:21	00:13:17	00:08:26	286-	68-	121-	65001
D2 (FM30)	12/05/20	05:54:49	06:08:03	00:13:14	00:08:27	286-	62-	124-	65001
B2 (FM14)	12/05/20	05:55:35	06:01:50	00:06:01	-----	161-	8-	105-	71936
B1 (FM13)	12/05/20	06:10:07	06:18:07	00:07:59	00:08:17	170-	11-	95-	71936
D6 (FM34)	12/05/20	06:16:35	06:29:44	00:11:37	-----	286-	55-	128-	65002
B6 (FM18)	12/05/20	06:23:32	06:33:26	00:03:41	-----	184-	16-	86-	71937
G2 (FM04)	12/05/20	06:34:17	06:42:46	00:08:29	00:00:51	2-	13-	280-	74170
D7 (FM35)	12/05/20	06:36:29	06:49:25	00:06:38	-----	285-	46-	135-	65002
B7 (FM19)	12/05/20	06:36:39	06:47:17	00:02:07	-----	191-	19-	83-	71937
B8 (FM20)	12/05/20	06:52:27	07:03:45	00:11:17	00:05:10	196-	23-	80-	71937
D8 (FM36)	12/05/20	06:57:11	07:09:42	00:05:56	-----	284-	36-	146-	65002
B4 (FM16)	12/05/20	07:07:41	07:19:25	00:09:43	-----	204-	26-	78-	71937
D3 (FM31)	12/05/20	07:19:22	07:30:31	00:11:05	-----	277-	22-	163-	65002
B3 (FM15)	12/05/20	07:22:52	07:35:04	00:04:33	-----	210-	31-	77-	71937
B2 (FM14)	12/05/20	07:37:10	07:49:43	00:12:33	00:02:06	216-	37-	76-	71937
D2 (FM30)	12/05/20	07:41:14	07:51:55	00:02:11	-----	276-	19-	168-	65002
B1 (FM13)	12/05/20	07:52:34	08:05:24	00:12:49	00:00:39	222-	43-	75-	71937
D6 (FM34)	12/05/20	08:03:13	08:13:15	00:07:51	-----	272-	16-	175-	65003
B6 (FM18)	12/05/20	08:06:58	08:20:06	00:06:50	-----	231-	54-	74-	71938
B7 (FM19)	12/05/20	08:20:30	08:33:44	00:13:14	00:00:23	235-	61-	74-	71938
D7 (FM35)	12/05/20	08:23:32	08:32:13	00:01:03	-----	267-	12-	186-	65003
B8 (FM20)	12/05/20	08:36:43	08:50:01	00:13:17	00:04:30	241-	70-	74-	71938
D8 (FM36)	12/05/20	08:45:17	08:51:03	00:01:02	-----	257-	8-	202-	65003
B4 (FM16)	12/05/20	08:52:13	09:05:35	00:13:22	00:01:10	244-	76-	74-	71938
A2 (FM06)	12/05/20	08:56:02	09:01:03	00:04:03	-----	152-	7-	107-	75359
B3 (FM15)	12/05/20	09:07:43	09:21:08	00:13:24	00:06:40	249-	83-	75-	71938
A1 (FM05)	12/05/20	09:08:35	09:15:35	00:05:03	-----	166-	9-	100-	75358
A3 (FM07)	12/05/20	09:19:55	09:28:13	00:08:17	00:04:19	174-	12-	94-	75359
B2 (FM14)	12/05/20	09:22:18	09:35:43	00:07:29	-----	253-	90-	76-	71938
A4 (FM08)	12/05/20	09:32:48	09:42:22	00:06:39	-----	184-	15-	90-	75360
B1 (FM13)	12/05/20	09:37:55	09:51:22	00:08:59	-----	257-	84-	77-	71938
A8 (FM12)	12/05/20	09:46:39	09:57:04	00:05:42	-----	191-	19-	83-	75360
B6 (FM18)	12/05/20	09:52:37	10:06:03	00:08:58	-----	263-	78-	79-	71939
A5 (FM09)	12/05/20	10:00:18	10:11:16	00:05:13	-----	195-	22-	82-	75360
B7 (FM19)	12/05/20	10:06:16	10:19:41	00:08:24	-----	267-	75-	81-	71939
A7 (FM11)	12/05/20	10:11:51	10:23:20	00:03:38	-----	203-	26-	79-	75360
B8 (FM20)	12/05/20	10:22:37	10:36:00	00:12:39	-----	270-	73-	83-	71939
A6 (FM10)	12/05/20	10:23:24	10:35:11	00:00:04	-----	208-	29-	77-	75360
A2 (FM06)	12/05/20	10:36:45	10:48:56	00:12:11	00:01:33	214-	34-	77-	75360
B4 (FM16)	12/05/20	10:38:11	10:51:35	00:02:39	-----	272-	72-	85-	71939
A1 (FM05)	12/05/20	10:50:15	11:02:43	00:11:07	-----	220-	40-	75-	75359
B3 (FM15)	12/05/20	10:53:45	11:07:10	00:04:27	-----	275-	72-	88-	71939
A3 (FM07)	12/05/20	11:02:13	11:14:52	00:07:42	-----	224-	45-	75-	75360
B2 (FM14)	12/05/20	11:08:22	11:21:46	00:06:54	-----	278-	73-	91-	71939
A4 (FM08)	12/05/20	11:15:48	11:28:37	00:06:50	-----	231-	54-	75-	75361
C1 (FM21)	12/05/20	11:22:56	11:28:41	00:00:03	-----	155-	8-	102-	71259
B1 (FM13)	12/05/20	11:24:01	11:37:26	00:08:45	-----	280-	76-	94-	71939
G2 (FM04)	12/05/20	11:25:41	11:27:34	00:09:05	-----	40-	5-	20-	74173

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A8 (FM12)	12/05/20	11:30:06	11:43:05	00:12:58	00:02:32	236-	61-	74-	75361
C7 (FM27)	12/05/20	11:36:30	11:44:26	00:01:21	-----	170-	11-	96-	71259
C4 (FM24)	12/05/20	11:37:39	11:45:18	00:00:51	-----	169-	10-	97-	71259
B6 (FM18)	12/05/20	11:38:43	11:52:08	00:06:50	-----	282-	81-	100-	71940
A5 (FM09)	12/05/20	11:44:05	11:57:09	00:05:00	-----	240-	68-	74-	75361
C3 (FM23)	12/05/20	11:46:37	11:55:24	00:01:04	-----	176-	13-	91-	71259
B7 (FM19)	12/05/20	11:52:21	12:05:47	00:10:22	-----	284-	85-	104-	71940
A7 (FM11)	12/05/20	11:55:58	12:09:05	00:03:17	-----	244-	75-	74-	75361
A6 (FM10)	12/05/20	12:07:43	12:20:52	00:11:47	-----	247-	81-	74-	75361
B8 (FM20)	12/05/20	12:08:40	12:22:03	00:01:11	-----	285-	88-	108-	71940
C2 (FM22)	12/05/20	12:10:30	12:20:55	00:01:08	-----	189-	18-	86-	71259
A2 (FM06)	12/05/20	12:21:21	12:34:31	00:13:09	00:00:26	252-	88-	75-	75361
B4 (FM16)	12/05/20	12:24:13	12:37:37	00:03:05	-----	285-	83-	111-	71940
A1 (FM05)	12/05/20	12:35:05	12:48:16	00:10:38	-----	256-	86-	76-	75360
C5 (FM25)	12/05/20	12:37:13	12:48:58	00:00:42	-----	204-	26-	78-	71260
B3 (FM15)	12/05/20	12:39:45	12:53:07	00:04:09	-----	286-	76-	116-	71940
A3 (FM07)	12/05/20	12:47:13	13:00:24	00:07:16	-----	259-	82-	77-	75361
B2 (FM14)	12/05/20	12:54:21	13:07:38	00:07:14	-----	286-	67-	121-	71940
G2 (FM04)	12/05/20	12:58:00	13:09:12	00:01:33	-----	109-	25-	349-	74174
A4 (FM08)	12/05/20	13:01:01	13:14:09	00:04:56	-----	264-	77-	79-	75362
C1 (FM21)	12/05/20	13:04:18	13:16:47	00:02:38	-----	215-	36-	77-	71260
B1 (FM13)	12/05/20	13:09:59	13:23:11	00:06:23	-----	286-	60-	126-	71940
A8 (FM12)	12/05/20	13:15:27	13:28:37	00:05:26	-----	267-	74-	81-	75362
C7 (FM27)	12/05/20	13:18:57	13:31:45	00:03:07	-----	222-	43-	75-	71260
C4 (FM24)	12/05/20	13:19:57	13:32:43	00:00:57	-----	221-	42-	75-	71260
B6 (FM18)	12/05/20	13:24:40	13:37:37	00:04:54	-----	285-	47-	134-	71941
C3 (FM23)	12/05/20	13:29:28	13:42:24	00:04:46	-----	225-	47-	74-	71260
A5 (FM09)	12/05/20	13:29:31	13:42:42	00:00:18	-----	270-	73-	83-	75362
B7 (FM19)	12/05/20	13:38:19	13:51:05	00:08:22	-----	284-	41-	139-	71941
A7 (FM11)	12/05/20	13:41:29	13:54:39	00:03:34	-----	272-	72-	85-	75362
A6 (FM10)	12/05/20	13:53:17	14:06:28	00:11:48	-----	274-	72-	87-	75362
C2 (FM22)	12/05/20	13:54:13	14:07:24	00:00:56	-----	234-	59-	74-	71260
B8 (FM20)	12/05/20	13:54:40	14:07:06	00:00:01	-----	283-	35-	145-	71941
A2 (FM06)	12/05/20	14:06:59	14:20:08	00:13:01	-----	277-	72-	90-	75362
B4 (FM16)	12/05/20	14:10:17	14:22:28	00:02:19	-----	282-	31-	150-	71941
A1 (FM05)	12/05/20	14:20:44	14:33:54	00:11:26	-----	279-	74-	93-	75361
C5 (FM25)	12/05/20	14:21:44	14:35:07	00:01:12	-----	244-	76-	74-	71261
B3 (FM15)	12/05/20	14:25:55	14:37:39	00:02:32	-----	280-	26-	156-	71941
A3 (FM07)	12/05/20	14:32:53	14:46:04	00:08:24	-----	280-	76-	95-	75362
G2 (FM04)	12/05/20	14:35:27	14:48:20	00:02:16	-----	164-	61-	329-	74175
B2 (FM14)	12/05/20	14:40:39	14:51:48	00:03:28	-----	277-	22-	163-	71941
A4 (FM08)	12/05/20	14:46:39	14:59:50	00:08:01	-----	282-	81-	100-	75363
C1 (FM21)	12/05/20	14:49:22	15:02:47	00:02:57	-----	252-	89-	75-	71261
B1 (FM13)	12/05/20	14:56:29	15:06:57	00:04:09	-----	274-	18-	170-	71941
A8 (FM12)	12/05/20	15:01:05	15:14:17	00:07:20	-----	284-	85-	104-	75363
C7 (FM27)	12/05/20	15:04:18	15:17:43	00:03:25	-----	257-	84-	77-	71261
C4 (FM24)	12/05/20	15:05:15	15:18:40	00:00:57	-----	257-	85-	76-	71261
B6 (FM18)	12/05/20	15:11:39	15:20:30	00:01:49	-----	268-	13-	184-	71942
C3 (FM23)	12/05/20	15:14:55	15:28:20	00:07:50	-----	260-	81-	78-	71261
A5 (FM09)	12/05/20	15:15:08	15:28:21	00:00:00	-----	285-	90-	107-	75363

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B7 (FM19)	12/05/20	15:25:43	15:33:22	00:05:00	-----	262-	10-	193-	71942
A7 (FM11)	12/05/20	15:27:04	15:40:16	00:06:54	-----	285-	84-	111-	75363
A6 (FM10)	12/05/20	15:38:52	15:52:02	00:11:45	-----	286-	78-	114-	75363
C2 (FM22)	12/05/20	15:39:57	15:53:21	00:01:19	-----	266-	76-	80-	71261
B8 (FM20)	12/05/20	15:42:51	15:48:22	00:04:05	-----	253-	7-	207-	71942
A2 (FM06)	12/05/20	15:52:32	16:05:37	00:13:05	00:04:09	286-	70-	119-	75363
B4 (FM16)	12/05/20	15:59:38	16:02:23	00:03:01	-----	246-	6-	217-	71942
A1 (FM05)	12/05/20	16:06:16	16:19:17	00:13:01	00:03:52	286-	63-	123-	75362
C5 (FM25)	12/05/20	16:07:42	16:21:07	00:01:49	-----	272-	72-	85-	71262
A3 (FM07)	12/05/20	16:18:24	16:31:21	00:10:13	-----	286-	56-	127-	75363
G2 (FM04)	12/05/20	16:18:35	16:24:18	00:07:02	-----	237-	8-	286-	74176
A4 (FM08)	12/05/20	16:32:10	16:44:54	00:12:44	00:07:51	285-	47-	135-	75364
C1 (FM21)	12/05/20	16:35:26	16:48:49	00:03:55	-----	277-	73-	90-	71262
A8 (FM12)	12/05/20	16:46:37	16:59:11	00:10:21	-----	284-	41-	139-	75364
C7 (FM27)	12/05/20	16:50:23	17:03:48	00:04:37	-----	280-	75-	94-	71262
C4 (FM24)	12/05/20	16:51:20	17:04:45	00:00:56	-----	279-	75-	94-	71262
A5 (FM09)	12/05/20	17:00:42	17:13:03	00:08:17	-----	283-	36-	145-	75364
C3 (FM23)	12/05/20	17:01:00	17:14:25	00:01:22	-----	281-	77-	96-	71262
A7 (FM11)	12/05/20	17:12:42	17:24:43	00:10:17	-----	282-	31-	149-	75364
A6 (FM10)	12/05/20	17:24:33	17:36:16	00:11:33	-----	280-	28-	154-	75364
C2 (FM22)	12/05/20	17:26:01	17:39:26	00:03:09	-----	283-	84-	102-	71262
A2 (FM06)	12/05/20	17:38:20	17:49:31	00:10:04	-----	278-	23-	161-	75364
A1 (FM05)	12/05/20	17:52:14	18:02:48	00:10:34	00:02:43	276-	20-	167-	75363
C5 (FM25)	12/05/20	17:53:43	18:07:08	00:04:19	-----	285-	83-	111-	71263
A3 (FM07)	12/05/20	18:04:33	18:14:31	00:07:23	-----	273-	17-	173-	75364
A4 (FM08)	12/05/20	18:18:42	18:27:26	00:08:43	00:04:10	268-	13-	184-	75365
C1 (FM21)	12/05/20	18:21:24	18:34:42	00:07:16	-----	286-	69-	120-	71263
A8 (FM12)	12/05/20	18:33:36	18:41:01	00:06:18	-----	262-	10-	193-	75365
C7 (FM27)	12/05/20	18:36:21	18:49:33	00:08:32	-----	286-	60-	126-	71263
C4 (FM24)	12/05/20	18:37:17	18:50:31	00:00:57	-----	286-	61-	125-	71263
C3 (FM23)	12/05/20	18:46:57	19:00:04	00:09:33	-----	286-	55-	129-	71263
A5 (FM09)	12/05/20	18:48:18	18:54:07	00:05:05	-----	257-	8-	201-	75365
A7 (FM11)	12/05/20	19:01:30	19:04:27	00:02:57	00:07:23	245-	6-	222-	75365
C2 (FM22)	12/05/20	19:11:58	19:24:48	00:12:49	00:07:30	285-	43-	138-	71263
C5 (FM25)	12/05/20	19:39:46	19:51:58	00:12:12	00:14:58	282-	31-	150-	71264
C1 (FM21)	12/05/20	20:07:40	20:18:55	00:11:15	00:15:41	278-	23-	163-	71264
C7 (FM27)	12/05/20	20:22:50	20:33:19	00:10:28	00:03:54	274-	18-	170-	71264
C4 (FM24)	12/05/20	20:23:44	20:34:20	00:01:01	-----	275-	19-	168-	71264
C3 (FM23)	12/05/20	20:33:35	20:43:33	00:09:12	-----	272-	16-	175-	71264
C2 (FM22)	12/05/20	20:59:12	21:07:18	00:08:05	00:15:39	265-	11-	189-	71264
C5 (FM25)	12/05/20	21:29:02	21:31:58	00:02:55	00:21:43	246-	6-	217-	71265
D3 (FM31)	12/05/20	22:03:40	22:07:58	00:04:17	00:31:42	145-	7-	108-	65011
D2 (FM30)	12/05/20	22:24:17	22:30:30	00:06:12	00:16:18	161-	8-	105-	65011
D6 (FM34)	12/05/20	22:45:03	22:52:52	00:07:48	00:14:33	170-	11-	96-	65012
D7 (FM35)	12/05/20	23:03:54	23:13:18	00:09:23	00:11:02	180-	14-	88-	65012
D8 (FM36)	12/05/20	23:23:29	23:34:24	00:10:54	00:10:11	194-	20-	84-	65012
D3 (FM31)	12/05/20	23:44:17	23:56:37	00:12:19	00:09:53	212-	33-	77-	65012
D2 (FM30)	12/05/21	00:05:51	00:18:24	00:12:32	00:09:14	216-	37-	76-	65012
D6 (FM34)	12/05/21	00:27:26	00:40:13	00:12:47	00:09:02	221-	42-	75-	65013
D7 (FM35)	12/05/21	00:47:04	01:00:07	00:13:02	00:06:51	228-	51-	74-	65013

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D8 (FM36)	12/05/21	01:07:29	01:20:47	00:13:17	00:07:22	237-	64-	74-	65013
D3 (FM31)	12/05/21	01:29:15	01:42:39	00:13:23	00:08:28	250-	86-	75-	65013
D2 (FM30)	12/05/21	01:50:59	02:04:23	00:13:24	00:08:20	253-	90-	75-	65013
D6 (FM34)	12/05/21	02:12:46	02:26:11	00:13:25	00:08:22	257-	84-	77-	65014
D7 (FM35)	12/05/21	02:32:38	02:46:03	00:13:24	00:06:27	262-	79-	78-	65014
G2 (FM04)	12/05/21	02:52:06	02:59:49	00:07:43	00:06:02	59-	11-	139-	74182
D8 (FM36)	12/05/21	02:53:19	03:06:45	00:06:55	-----	268-	74-	81-	65014
D3 (FM31)	12/05/21	03:15:18	03:28:41	00:13:23	00:08:32	276-	72-	89-	65014
D2 (FM30)	12/05/21	03:37:03	03:50:27	00:13:23	00:08:22	278-	73-	91-	65014
D6 (FM34)	12/05/21	03:58:51	04:12:16	00:13:24	00:08:24	280-	75-	94-	65015
D7 (FM35)	12/05/21	04:18:44	04:32:09	00:13:24	00:06:28	282-	79-	98-	65015
G2 (FM04)	12/05/21	04:28:56	04:41:42	00:09:32	-----	28-	79-	204-	74183
D8 (FM36)	12/05/21	04:39:23	04:52:50	00:11:08	-----	284-	87-	105-	65015
D3 (FM31)	12/05/21	05:01:17	05:14:37	00:13:20	00:08:26	286-	73-	118-	65015
D2 (FM30)	12/05/21	05:23:02	05:36:19	00:13:17	00:08:24	286-	68-	121-	65015
B1 (FM13)	12/05/21	05:39:01	05:45:54	00:06:53	00:02:41	164-	9-	102-	71950
D6 (FM34)	12/05/21	05:44:49	05:58:02	00:12:08	-----	286-	61-	125-	65016
B6 (FM18)	12/05/21	05:52:11	06:01:24	00:03:21	-----	179-	14-	89-	71951
D7 (FM35)	12/05/21	06:04:41	06:17:44	00:13:02	00:03:17	286-	51-	131-	65016
B7 (FM19)	12/05/21	06:05:13	06:15:19	00:02:02	-----	186-	17-	85-	71951
G2 (FM04)	12/05/21	06:08:17	06:18:38	00:03:19	-----	8-	20-	261-	74184
B8 (FM20)	12/05/21	06:20:57	06:31:50	00:10:53	00:02:18	194-	20-	82-	71951
D8 (FM36)	12/05/21	06:25:22	06:38:04	00:06:14	-----	284-	39-	142-	65016
B4 (FM16)	12/05/21	06:36:08	06:47:32	00:09:27	-----	199-	23-	80-	71951
D3 (FM31)	12/05/21	06:47:29	06:59:02	00:11:29	-----	279-	25-	159-	65016
B3 (FM15)	12/05/21	06:51:16	07:03:11	00:04:09	-----	206-	28-	78-	71951
B2 (FM14)	12/05/21	07:05:34	07:17:52	00:12:18	00:02:22	211-	33-	76-	71951
D2 (FM30)	12/05/21	07:09:20	07:20:28	00:02:36	-----	277-	22-	163-	65016
B1 (FM13)	12/05/21	07:20:54	07:33:34	00:12:39	00:00:26	218-	39-	75-	71951
D6 (FM34)	12/05/21	07:31:17	07:41:50	00:08:16	-----	275-	19-	169-	65017
B6 (FM18)	12/05/21	07:35:15	07:48:17	00:06:26	-----	227-	49-	74-	71952
B7 (FM19)	12/05/21	07:48:45	08:01:55	00:13:09	00:00:28	232-	56-	74-	71952
D7 (FM35)	12/05/21	07:51:29	08:00:54	00:01:01	-----	270-	14-	179-	65017
B8 (FM20)	12/05/21	08:04:58	08:18:12	00:13:14	00:04:03	237-	64-	74-	71952
D8 (FM36)	12/05/21	08:12:57	08:20:07	00:01:54	-----	262-	9-	195-	65017
B4 (FM16)	12/05/21	08:20:27	08:33:47	00:13:19	00:00:19	241-	71-	74-	71952
A1 (FM05)	12/05/21	08:32:31	08:37:06	00:03:19	-----	149-	7-	108-	75372
B3 (FM15)	12/05/21	08:35:55	08:49:19	00:12:12	-----	246-	78-	74-	71952
A3 (FM07)	12/05/21	08:43:29	08:50:04	00:00:45	-----	164-	9-	103-	75373
B2 (FM14)	12/05/21	08:50:30	09:03:55	00:13:24	00:00:25	250-	86-	75-	71952
A4 (FM08)	12/05/21	08:56:03	09:04:29	00:00:34	-----	175-	12-	96-	75374
B1 (FM13)	12/05/21	09:06:07	09:19:33	00:13:26	00:01:38	255-	88-	76-	71952
A8 (FM12)	12/05/21	09:09:46	09:19:16	00:00:01	-----	183-	15-	87-	75374
B6 (FM18)	12/05/21	09:20:47	09:34:14	00:13:26	00:01:30	261-	80-	78-	71953
A5 (FM09)	12/05/21	09:23:18	09:33:35	00:00:03	-----	190-	18-	86-	75374
B7 (FM19)	12/05/21	09:34:26	09:47:52	00:13:25	00:00:51	264-	77-	80-	71953
A7 (FM11)	12/05/21	09:34:47	09:45:40	00:02:01	-----	196-	21-	81-	75374
A6 (FM10)	12/05/21	09:46:16	09:57:33	00:11:17	00:00:35	201-	24-	79-	75374
B8 (FM20)	12/05/21	09:50:47	10:04:10	00:06:36	-----	268-	74-	82-	71953
A2 (FM06)	12/05/21	09:59:34	10:11:19	00:07:09	-----	205-	29-	77-	75374

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B4 (FM16)	12/05/21	10:06:21	10:19:46	00:08:26	-----	270-	73-	84-	71953
A1 (FM05)	12/05/21	10:13:01	10:25:09	00:05:23	-----	213-	33-	77-	75373
B3 (FM15)	12/05/21	10:21:54	10:35:19	00:10:10	-----	273-	72-	86-	71953
A3 (FM07)	12/05/21	10:24:57	10:37:21	00:02:01	-----	218-	38-	76-	75374
B2 (FM14)	12/05/21	10:36:33	10:49:57	00:12:36	-----	276-	73-	89-	71953
A4 (FM08)	12/05/21	10:38:27	10:51:06	00:01:08	-----	225-	46-	75-	75375
B1 (FM13)	12/05/21	10:52:12	11:05:37	00:13:25	00:01:06	278-	74-	92-	71953
A8 (FM12)	12/05/21	10:52:43	11:05:33	00:00:03	-----	230-	53-	74-	75375
C7 (FM27)	12/05/21	11:05:26	11:12:16	00:06:42	-----	164-	9-	102-	71273
C4 (FM24)	12/05/21	11:06:30	11:13:00	00:00:43	-----	162-	9-	104-	71273
A5 (FM09)	12/05/21	11:06:40	11:19:38	00:06:38	-----	235-	60-	74-	75375
B6 (FM18)	12/05/21	11:06:53	11:20:19	00:00:40	-----	281-	78-	98-	71954
C3 (FM23)	12/05/21	11:15:16	11:23:06	00:02:47	-----	170-	11-	96-	71273
A7 (FM11)	12/05/21	11:18:31	11:31:34	00:08:27	-----	239-	67-	74-	75375
B7 (FM19)	12/05/21	11:20:32	11:33:57	00:02:23	-----	283-	82-	101-	71954
A6 (FM10)	12/05/21	11:30:15	11:43:21	00:09:23	-----	242-	73-	74-	75375
B8 (FM20)	12/05/21	11:36:51	11:50:15	00:06:54	-----	284-	88-	105-	71954
C2 (FM22)	12/05/21	11:38:58	11:48:47	00:01:02	-----	184-	16-	89-	71273
A2 (FM06)	12/05/21	11:43:52	11:57:00	00:08:12	-----	247-	80-	74-	75375
B4 (FM16)	12/05/21	11:52:24	12:05:49	00:08:49	-----	285-	88-	108-	71954
A1 (FM05)	12/05/21	11:57:35	12:10:45	00:04:55	-----	251-	87-	75-	75374
C5 (FM25)	12/05/21	12:05:32	12:16:56	00:06:10	-----	199-	23-	80-	71274
B3 (FM15)	12/05/21	12:07:56	12:21:20	00:04:23	-----	286-	81-	113-	71954
A3 (FM07)	12/05/21	12:09:44	12:22:54	00:01:34	-----	255-	88-	76-	75375
B2 (FM14)	12/05/21	12:22:33	12:35:53	00:12:58	-----	286-	72-	118-	71954
A4 (FM08)	12/05/21	12:23:29	12:36:37	00:00:44	-----	260-	81-	77-	75376
C1 (FM21)	12/05/21	12:32:33	12:44:48	00:08:10	-----	210-	32-	77-	71274
G2 (FM04)	12/05/21	12:33:41	12:43:18	00:01:03	-----	93-	16-	356-	74188
A8 (FM12)	12/05/21	12:37:55	12:51:05	00:07:46	-----	263-	77-	79-	75376
B1 (FM13)	12/05/21	12:38:10	12:51:27	00:00:22	-----	286-	65-	122-	71954
C7 (FM27)	12/05/21	12:47:19	12:59:57	00:08:29	-----	218-	39-	75-	71274
C4 (FM24)	12/05/21	12:48:12	13:00:47	00:00:50	-----	217-	38-	76-	71274
A5 (FM09)	12/05/21	12:52:00	13:05:10	00:04:22	-----	266-	75-	80-	75376
B6 (FM18)	12/05/21	12:52:50	13:05:55	00:00:44	-----	286-	52-	130-	71955
C3 (FM23)	12/05/21	12:57:39	13:10:26	00:04:31	-----	221-	42-	75-	71274
A7 (FM11)	12/05/21	13:03:57	13:17:07	00:06:40	-----	269-	73-	82-	75376
B7 (FM19)	12/05/21	13:06:29	13:19:24	00:02:17	-----	285-	46-	135-	71955
A6 (FM10)	12/05/21	13:15:45	13:28:55	00:09:30	-----	271-	72-	84-	75376
C2 (FM22)	12/05/21	13:22:21	13:35:27	00:06:32	-----	230-	54-	74-	71274
B8 (FM20)	12/05/21	13:22:50	13:35:28	00:00:00	-----	284-	39-	141-	71955
A2 (FM06)	12/05/21	13:29:26	13:42:35	00:07:07	-----	274-	72-	87-	75376
B4 (FM16)	12/05/21	13:38:25	13:50:51	00:08:15	-----	283-	34-	146-	71955
A1 (FM05)	12/05/21	13:43:12	13:56:22	00:05:31	-----	276-	72-	89-	75375
C5 (FM25)	12/05/21	13:49:50	14:03:10	00:06:48	-----	241-	70-	74-	71275
B3 (FM15)	12/05/21	13:54:01	14:06:04	00:02:53	-----	281-	29-	152-	71955
A3 (FM07)	12/05/21	13:55:22	14:08:33	00:02:28	-----	278-	73-	92-	75376
B2 (FM14)	12/05/21	14:08:45	14:20:18	00:11:32	00:00:12	279-	24-	159-	71955
A4 (FM08)	12/05/21	14:09:08	14:22:17	00:02:00	-----	281-	77-	96-	75377
G2 (FM04)	12/05/21	14:09:56	14:22:53	00:00:35	-----	147-	79-	335-	74189
C1 (FM21)	12/05/21	14:17:26	14:30:50	00:07:57	-----	250-	85-	75-	71275

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A8 (FM12)	12/05/21	14:23:34	14:36:45	00:05:55	-----	282-	80-	100-	75377
B1 (FM13)	12/05/21	14:24:32	14:35:30	00:01:01	-----	276-	21-	166-	71955
C7 (FM27)	12/05/21	14:32:31	14:45:56	00:10:25	-----	255-	88-	76-	71275
C4 (FM24)	12/05/21	14:33:22	14:46:46	00:00:50	-----	254-	89-	76-	71275
A5 (FM09)	12/05/21	14:37:38	14:50:51	00:04:04	-----	283-	84-	103-	75377
B6 (FM18)	12/05/21	14:39:35	14:49:11	00:01:03	-----	271-	15-	178-	71956
C3 (FM23)	12/05/21	14:42:58	14:56:23	00:07:12	-----	257-	85-	77-	71275
A7 (FM11)	12/05/21	14:49:34	15:02:46	00:06:22	-----	284-	89-	106-	75377
B7 (FM19)	12/05/21	14:53:34	15:02:09	00:00:03	-----	266-	12-	187-	71956
A6 (FM10)	12/05/21	15:01:21	15:14:33	00:12:23	-----	285-	86-	109-	75377
C2 (FM22)	12/05/21	15:08:00	15:21:24	00:06:51	-----	263-	78-	79-	71275
B8 (FM20)	12/05/21	15:10:29	15:17:24	00:03:05	-----	259-	9-	198-	71956
A2 (FM06)	12/05/21	15:15:00	15:28:09	00:10:45	-----	286-	79-	114-	75377
B4 (FM16)	12/05/21	15:26:42	15:31:59	00:03:49	-----	252-	7-	208-	71956
A1 (FM05)	12/05/21	15:28:45	15:41:52	00:09:53	-----	286-	71-	118-	75376
C5 (FM25)	12/05/21	15:35:44	15:49:09	00:07:17	-----	270-	73-	84-	71276
A3 (FM07)	12/05/21	15:40:54	15:53:57	00:04:48	-----	286-	65-	122-	75377
G2 (FM04)	12/05/21	15:50:40	16:00:29	00:06:31	-----	207-	16-	306-	74190
A4 (FM08)	12/05/21	15:54:38	16:07:33	00:07:04	-----	286-	55-	129-	75378
C1 (FM21)	12/05/21	16:03:28	16:16:52	00:09:18	-----	275-	72-	88-	71276
A8 (FM12)	12/05/21	16:09:04	16:21:51	00:04:59	-----	285-	48-	133-	75378
C7 (FM27)	12/05/21	16:18:36	16:32:00	00:10:09	-----	278-	74-	92-	71276
C4 (FM24)	12/05/21	16:19:26	16:32:50	00:00:49	-----	278-	74-	92-	71276
A5 (FM09)	12/05/21	16:23:10	16:35:47	00:02:56	-----	285-	42-	139-	75378
C3 (FM23)	12/05/21	16:29:03	16:42:28	00:06:41	-----	279-	75-	94-	71276
A7 (FM11)	12/05/21	16:35:07	16:47:30	00:05:02	-----	283-	37-	143-	75378
A6 (FM10)	12/05/21	16:46:57	16:59:05	00:11:35	-----	282-	33-	147-	75378
C2 (FM22)	12/05/21	16:54:04	17:07:29	00:08:23	-----	282-	81-	100-	71276
A2 (FM06)	12/05/21	17:00:42	17:12:24	00:04:55	-----	281-	28-	154-	75378
A1 (FM05)	12/05/21	17:14:33	17:25:48	00:11:15	00:02:08	279-	24-	160-	75377
C5 (FM25)	12/05/21	17:21:46	17:35:12	00:09:23	-----	285-	88-	108-	71277
A3 (FM07)	12/05/21	17:26:50	17:37:36	00:02:23	-----	276-	20-	165-	75378
A4 (FM08)	12/05/21	17:40:50	17:50:39	00:09:48	00:03:14	273-	16-	176-	75379
C1 (FM21)	12/05/21	17:49:27	18:02:48	00:12:09	-----	286-	74-	117-	71277
A8 (FM12)	12/05/21	17:55:34	18:04:26	00:01:38	-----	268-	13-	182-	75379
C7 (FM27)	12/05/21	18:04:34	18:17:50	00:13:16	00:00:07	286-	65-	122-	71277
C4 (FM24)	12/05/21	18:05:23	18:18:41	00:00:50	-----	286-	66-	121-	71277
A5 (FM09)	12/05/21	18:10:02	18:17:47	00:00:05	-----	264-	11-	190-	75379
C3 (FM23)	12/05/21	18:15:00	18:28:13	00:10:25	-----	286-	60-	125-	71277
A7 (FM11)	12/05/21	18:22:34	18:28:44	00:00:31	-----	256-	8-	202-	75379
A6 (FM10)	12/05/21	18:35:07	18:39:27	00:04:20	00:06:22	248-	6-	213-	75379
C2 (FM22)	12/05/21	18:40:00	18:52:58	00:12:58	00:00:33	285-	48-	134-	71277
C5 (FM25)	12/05/21	19:07:47	19:20:13	00:12:26	00:14:48	283-	35-	145-	71278
C1 (FM21)	12/05/21	19:35:37	19:47:16	00:11:38	00:15:24	280-	25-	158-	71278
C7 (FM27)	12/05/21	19:50:56	20:01:53	00:10:57	00:03:39	276-	21-	165-	71278
C4 (FM24)	12/05/21	19:51:43	20:02:47	00:00:54	-----	277-	21-	164-	71278
C3 (FM23)	12/05/21	20:01:28	20:12:00	00:09:13	-----	275-	18-	170-	71278
C2 (FM22)	12/05/21	20:26:57	20:35:55	00:08:57	00:14:56	269-	13-	183-	71278
C5 (FM25)	12/05/21	20:56:01	21:01:23	00:05:22	00:20:06	252-	7-	208-	71279
D2 (FM30)	12/05/21	21:53:35	21:57:57	00:04:22	00:52:11	146-	7-	108-	65025

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D6 (FM34)	12/05/21	22:14:00	22:20:41	00:06:41	00:16:02	163-	9-	103-	65026
D7 (FM35)	12/05/21	22:32:37	22:41:15	00:08:37	00:11:56	175-	12-	92-	65026
D8 (FM36)	12/05/21	22:52:03	23:02:28	00:10:24	00:10:48	189-	18-	86-	65026
D3 (FM31)	12/05/21	23:12:44	23:24:46	00:12:02	00:10:15	206-	30-	77-	65026
D2 (FM30)	12/05/21	23:34:15	23:46:34	00:12:19	00:09:28	213-	33-	77-	65026
D6 (FM34)	12/05/21	23:55:48	00:08:25	00:12:36	00:09:13	218-	38-	75-	65027
D7 (FM35)	12/05/22	00:15:24	00:28:19	00:12:54	00:06:58	225-	46-	74-	65027
D8 (FM36)	12/05/22	00:35:46	00:49:00	00:13:13	00:07:27	234-	59-	74-	65027
D3 (FM31)	12/05/22	00:57:29	01:10:52	00:13:22	00:08:29	248-	81-	74-	65027
D2 (FM30)	12/05/22	01:19:12	01:32:36	00:13:23	00:08:20	250-	86-	75-	65027
D6 (FM34)	12/05/22	01:41:00	01:54:24	00:13:25	00:08:22	254-	88-	76-	65028
D7 (FM35)	12/05/22	02:00:51	02:14:16	00:13:25	00:06:26	259-	82-	77-	65028
D8 (FM36)	12/05/22	02:21:30	02:34:57	00:13:26	00:07:14	266-	75-	80-	65028
D3 (FM31)	12/05/22	02:43:30	02:56:53	00:13:23	00:08:33	274-	72-	87-	65028
D2 (FM30)	12/05/22	03:05:15	03:18:39	00:13:23	00:08:22	276-	72-	89-	65028
D6 (FM34)	12/05/22	03:27:04	03:40:28	00:13:24	00:08:25	278-	74-	92-	65029
D7 (FM35)	12/05/22	03:46:57	04:00:21	00:13:24	00:06:28	281-	76-	96-	65029
G2 (FM04)	12/05/22	04:03:36	04:15:55	00:12:18	00:03:15	34-	44-	186-	74197
D8 (FM36)	12/05/22	04:07:35	04:21:03	00:05:07	-----	283-	84-	102-	65029
D3 (FM31)	12/05/22	04:29:30	04:42:52	00:13:21	00:08:27	286-	78-	114-	65029
D2 (FM30)	12/05/22	04:51:15	05:04:35	00:13:20	00:08:22	286-	73-	118-	65029
B1 (FM13)	12/05/22	05:08:04	05:13:30	00:05:26	00:03:28	154-	7-	105-	71964
D6 (FM34)	12/05/22	05:13:02	05:26:19	00:12:48	-----	286-	66-	122-	65030
B6 (FM18)	12/05/22	05:20:54	05:29:21	00:03:01	-----	173-	12-	93-	71965
D7 (FM35)	12/05/22	05:32:53	05:46:02	00:13:08	00:03:32	286-	56-	128-	65030
B7 (FM19)	12/05/22	05:33:50	05:43:18	00:02:04	-----	181-	14-	88-	71965
G2 (FM04)	12/05/22	05:42:27	05:54:06	00:10:47	-----	14-	31-	243-	74198
B8 (FM20)	12/05/22	05:49:29	05:59:53	00:05:47	-----	189-	18-	84-	71965
D8 (FM36)	12/05/22	05:53:33	06:06:25	00:06:32	-----	285-	44-	138-	65030
B4 (FM16)	12/05/22	06:04:38	06:15:37	00:09:11	-----	195-	21-	82-	71965
D3 (FM31)	12/05/22	06:15:38	06:27:31	00:11:52	00:00:01	281-	28-	155-	65030
B3 (FM15)	12/05/22	06:19:41	06:31:17	00:03:46	-----	202-	25-	79-	71965
B2 (FM14)	12/05/22	06:33:56	06:46:01	00:12:04	00:02:39	208-	30-	77-	71965
D2 (FM30)	12/05/22	06:37:27	06:49:00	00:02:58	-----	279-	25-	159-	65030
B1 (FM13)	12/05/22	06:49:16	07:01:44	00:12:27	00:00:17	214-	35-	76-	71965
D6 (FM34)	12/05/22	06:59:22	07:10:24	00:08:40	-----	277-	21-	164-	65031
B6 (FM18)	12/05/22	07:03:33	07:16:27	00:06:02	-----	224-	45-	75-	71966
B7 (FM19)	12/05/22	07:17:02	07:30:06	00:13:03	00:00:35	228-	51-	74-	71966
D7 (FM35)	12/05/22	07:19:30	07:29:33	00:00:03	-----	273-	17-	174-	65031
G2 (FM04)	12/05/22	07:23:14	07:27:48	00:01:04	-----	349-	7-	310-	74199
B8 (FM20)	12/05/22	07:33:13	07:46:24	00:13:10	00:05:24	234-	59-	74-	71966
D8 (FM36)	12/05/22	07:40:46	07:48:58	00:02:34	-----	266-	11-	189-	65031
B4 (FM16)	12/05/22	07:48:41	08:01:58	00:13:00	-----	238-	65-	74-	71966
B3 (FM15)	12/05/22	08:04:07	08:17:29	00:13:21	00:02:09	243-	73-	74-	71966
B2 (FM14)	12/05/22	08:18:43	08:32:06	00:13:23	00:01:13	248-	81-	74-	71966
A4 (FM08)	12/05/22	08:19:33	08:26:23	00:05:04	-----	165-	9-	99-	75388
A8 (FM12)	12/05/22	08:33:02	08:41:22	00:08:19	00:06:38	174-	12-	93-	75388
B1 (FM13)	12/05/22	08:34:19	08:47:45	00:06:23	-----	252-	88-	75-	71966
A5 (FM09)	12/05/22	08:46:27	08:55:47	00:08:01	-----	182-	14-	91-	75388
B6 (FM18)	12/05/22	08:48:58	09:02:24	00:06:37	-----	258-	83-	77-	71967

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A7 (FM11)	12/05/22	08:57:49	09:07:57	00:05:32	-----	189-	17-	85-	75388
B7 (FM19)	12/05/22	09:02:37	09:16:02	00:08:05	-----	262-	79-	79-	71967
A6 (FM10)	12/05/22	09:09:14	09:19:53	00:03:50	-----	194-	20-	82-	75388
B8 (FM20)	12/05/22	09:18:57	09:32:21	00:12:28	-----	266-	76-	80-	71967
A2 (FM06)	12/05/22	09:22:25	09:33:41	00:01:20	-----	201-	24-	80-	75388
B4 (FM16)	12/05/22	09:34:31	09:47:56	00:13:24	00:00:50	268-	74-	82-	71967
A1 (FM05)	12/05/22	09:35:51	09:47:33	00:00:02	-----	205-	28-	78-	75387
A3 (FM07)	12/05/22	09:47:44	09:59:47	00:12:03	00:00:10	212-	32-	76-	75388
B3 (FM15)	12/05/22	09:50:04	10:03:29	00:03:41	-----	271-	73-	84-	71967
A4 (FM08)	12/05/22	10:01:09	10:13:33	00:10:04	-----	219-	39-	77-	75389
B2 (FM14)	12/05/22	10:04:44	10:18:07	00:04:34	-----	274-	72-	87-	71967
A8 (FM12)	12/05/22	10:15:22	10:28:01	00:09:53	-----	224-	45-	75-	75389
B1 (FM13)	12/05/22	10:20:23	10:33:48	00:05:46	-----	277-	73-	90-	71967
A5 (FM09)	12/05/22	10:29:18	10:42:07	00:08:19	-----	229-	52-	75-	75389
C7 (FM27)	12/05/22	10:34:31	10:39:54	00:02:01	-----	153-	7-	105-	71287
B6 (FM18)	12/05/22	10:35:04	10:48:29	00:08:35	-----	280-	76-	95-	71968
C4 (FM24)	12/05/22	10:35:36	10:40:25	00:08:04	-----	149-	7-	107-	71287
A7 (FM11)	12/05/22	10:41:07	10:54:03	00:12:55	00:00:41	234-	58-	74-	75389
C3 (FM23)	12/05/22	10:44:03	10:50:45	00:03:01	-----	163-	9-	103-	71287
B7 (FM19)	12/05/22	10:48:43	11:02:08	00:11:23	-----	282-	79-	98-	71968
A6 (FM10)	12/05/22	10:52:49	11:05:50	00:03:41	-----	237-	64-	74-	75389
B8 (FM20)	12/05/22	11:05:02	11:18:26	00:12:36	-----	283-	84-	103-	71968
A2 (FM06)	12/05/22	11:06:23	11:19:29	00:01:02	-----	242-	72-	74-	75389
C2 (FM22)	12/05/22	11:07:29	11:16:37	00:02:05	-----	178-	13-	93-	71287
A1 (FM05)	12/05/22	11:20:06	11:33:15	00:13:08	00:03:29	247-	79-	74-	75388
B4 (FM16)	12/05/22	11:20:35	11:34:01	00:00:46	-----	284-	88-	106-	71968
A3 (FM07)	12/05/22	11:32:15	11:45:24	00:11:23	-----	250-	86-	75-	75389
C5 (FM25)	12/05/22	11:33:54	11:44:53	00:00:03	-----	194-	21-	82-	71288
B3 (FM15)	12/05/22	11:36:06	11:49:31	00:04:38	-----	285-	85-	110-	71968
A4 (FM08)	12/05/22	11:45:58	11:59:06	00:09:34	-----	255-	87-	76-	75390
B2 (FM14)	12/05/22	11:50:44	12:04:06	00:05:00	-----	286-	78-	115-	71968
A8 (FM12)	12/05/22	12:00:23	12:13:33	00:09:26	-----	259-	82-	77-	75390
C1 (FM21)	12/05/22	12:00:50	12:12:48	00:00:04	-----	205-	29-	78-	71288
B1 (FM13)	12/05/22	12:06:22	12:19:42	00:06:53	-----	286-	70-	119-	71968
G2 (FM04)	12/05/22	12:09:48	12:17:12	00:02:02	-----	74-	10-	3-	74202
A5 (FM09)	12/05/22	12:14:28	12:27:39	00:10:26	-----	262-	78-	78-	75390
C7 (FM27)	12/05/22	12:15:43	12:28:08	00:00:29	-----	214-	35-	76-	71288
C4 (FM24)	12/05/22	12:16:29	12:28:52	00:00:43	-----	213-	34-	76-	71288
B6 (FM18)	12/05/22	12:21:01	12:34:12	00:05:20	-----	286-	57-	127-	71969
C3 (FM23)	12/05/22	12:25:51	12:38:28	00:04:16	-----	218-	38-	76-	71288
A7 (FM11)	12/05/22	12:26:25	12:39:35	00:01:06	-----	266-	75-	80-	75390
B7 (FM19)	12/05/22	12:34:40	12:47:42	00:08:07	-----	286-	51-	132-	71969
A6 (FM10)	12/05/22	12:38:13	12:51:22	00:03:40	-----	268-	74-	82-	75390
C2 (FM22)	12/05/22	12:50:31	13:03:30	00:12:07	-----	227-	49-	75-	71288
B8 (FM20)	12/05/22	12:51:00	13:03:48	00:00:17	-----	285-	43-	138-	71969
A2 (FM06)	12/05/22	12:51:53	13:05:02	00:01:14	-----	271-	72-	84-	75390
A1 (FM05)	12/05/22	13:05:40	13:18:50	00:13:09	00:00:38	274-	72-	86-	75389
B4 (FM16)	12/05/22	13:06:35	13:19:12	00:00:22	-----	284-	38-	142-	71969
A3 (FM07)	12/05/22	13:17:52	13:31:01	00:11:49	-----	276-	72-	89-	75390
C5 (FM25)	12/05/22	13:17:57	13:31:14	00:00:12	-----	238-	65-	74-	71289

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B3 (FM15)	12/05/22	13:22:09	13:34:27	00:03:13	-----	282-	33-	148-	71969
A4 (FM08)	12/05/22	13:31:37	13:44:45	00:10:17	-----	279-	74-	92-	75391
B2 (FM14)	12/05/22	13:36:52	13:48:45	00:04:00	-----	281-	27-	155-	71969
G2 (FM04)	12/05/22	13:44:46	13:57:17	00:08:32	-----	131-	47-	342-	74203
C1 (FM21)	12/05/22	13:45:31	13:58:54	00:01:36	-----	247-	80-	74-	71289
A8 (FM12)	12/05/22	13:46:02	13:59:13	00:00:19	-----	281-	76-	96-	75391
B1 (FM13)	12/05/22	13:52:37	14:04:01	00:04:48	-----	278-	23-	161-	71969
A5 (FM09)	12/05/22	14:00:07	14:13:19	00:09:18	-----	282-	79-	99-	75391
C7 (FM27)	12/05/22	14:00:45	14:14:09	00:00:49	-----	252-	88-	75-	71289
C4 (FM24)	12/05/22	14:01:28	14:14:53	00:00:43	-----	251-	87-	75-	71289
B6 (FM18)	12/05/22	14:07:35	14:17:49	00:02:55	-----	273-	17-	173-	71970
C3 (FM23)	12/05/22	14:11:01	14:24:27	00:06:37	-----	254-	88-	76-	71289
A7 (FM11)	12/05/22	14:12:03	14:25:15	00:00:48	-----	283-	83-	102-	75391
B7 (FM19)	12/05/22	14:21:29	14:30:49	00:05:34	-----	270-	14-	180-	71970
A6 (FM10)	12/05/22	14:23:50	14:37:02	00:06:12	-----	284-	87-	105-	75391
C2 (FM22)	12/05/22	14:36:02	14:49:27	00:12:24	-----	261-	80-	78-	71289
A2 (FM06)	12/05/22	14:37:29	14:50:40	00:01:13	-----	285-	86-	109-	75391
B8 (FM20)	12/05/22	14:38:16	14:46:16	00:04:02	-----	264-	11-	191-	71970
A1 (FM05)	12/05/22	14:51:15	15:04:24	00:13:09	00:04:59	286-	80-	113-	75390
B4 (FM16)	12/05/22	14:54:17	15:01:03	00:03:02	-----	258-	9-	199-	71970
A3 (FM07)	12/05/22	15:03:25	15:16:32	00:13:07	00:02:21	286-	73-	117-	75391
C5 (FM25)	12/05/22	15:03:46	15:17:11	00:00:38	-----	268-	74-	82-	71290
B3 (FM15)	12/05/22	15:10:50	15:15:06	00:02:05	-----	247-	6-	215-	71970
A4 (FM08)	12/05/22	15:17:08	15:30:09	00:13:00	00:02:01	286-	63-	123-	75392
G2 (FM04)	12/05/22	15:23:58	15:35:42	00:05:33	-----	187-	29-	317-	74204
C1 (FM21)	12/05/22	15:31:30	15:44:54	00:09:11	-----	274-	72-	86-	71290
A8 (FM12)	12/05/22	15:31:33	15:44:29	00:00:02	-----	286-	56-	128-	75392
A5 (FM09)	12/05/22	15:45:38	15:58:27	00:12:49	00:01:08	285-	49-	133-	75392
C7 (FM27)	12/05/22	15:46:49	16:00:13	00:01:45	-----	277-	73-	90-	71290
C4 (FM24)	12/05/22	15:47:31	16:00:55	00:00:42	-----	276-	73-	89-	71290
C3 (FM23)	12/05/22	15:57:06	16:10:30	00:09:34	-----	278-	74-	92-	71290
A7 (FM11)	12/05/22	15:57:34	16:10:13	00:00:01	-----	285-	43-	137-	75392
A6 (FM10)	12/05/22	16:09:23	16:21:51	00:11:37	-----	284-	39-	141-	75392
C2 (FM22)	12/05/22	16:22:07	16:35:32	00:13:24	00:00:16	281-	78-	97-	71290
A2 (FM06)	12/05/22	16:23:05	16:35:14	00:00:01	-----	283-	33-	147-	75392
A1 (FM05)	12/05/22	16:36:55	16:48:42	00:11:46	00:01:41	281-	28-	153-	75391
A3 (FM07)	12/05/22	16:49:11	17:00:34	00:11:23	00:00:28	279-	25-	158-	75392
C5 (FM25)	12/05/22	16:49:49	17:03:16	00:02:41	-----	284-	88-	106-	71291
A4 (FM08)	12/05/22	17:03:05	17:13:43	00:10:27	-----	276-	20-	168-	75393
C1 (FM21)	12/05/22	17:17:31	17:30:53	00:13:22	00:03:47	286-	79-	114-	71291
A8 (FM12)	12/05/22	17:17:43	17:27:39	00:03:01	-----	272-	16-	174-	75393
A5 (FM09)	12/05/22	17:32:04	17:41:10	00:09:05	00:04:24	270-	14-	181-	75393
C7 (FM27)	12/05/22	17:32:48	17:46:07	00:04:57	-----	286-	70-	119-	71291
C4 (FM24)	12/05/22	17:33:30	17:46:50	00:00:43	-----	286-	72-	118-	71291
C3 (FM23)	12/05/22	17:43:03	17:56:20	00:09:29	-----	286-	66-	122-	71291
A7 (FM11)	12/05/22	17:44:22	17:52:20	00:03:05	-----	264-	11-	189-	75393
A6 (FM10)	12/05/22	17:56:34	18:03:22	00:06:47	00:04:14	259-	9-	197-	75393
C2 (FM22)	12/05/22	18:08:03	18:21:08	00:13:05	00:04:40	286-	53-	131-	71291
A2 (FM06)	12/05/22	18:11:12	18:15:39	00:05:02	-----	247-	7-	214-	75393
C5 (FM25)	12/05/22	18:35:48	18:48:27	00:12:39	00:20:08	284-	39-	142-	71292

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C1 (FM21)	12/05/22	19:03:36	19:15:34	00:11:57	00:15:09	281-	28-	154-	71292
C7 (FM27)	12/05/22	19:19:03	19:30:25	00:11:22	00:03:28	278-	23-	160-	71292
C4 (FM24)	12/05/22	19:19:43	19:31:11	00:00:46	-----	279-	24-	159-	71292
C3 (FM23)	12/05/22	19:29:23	19:40:25	00:09:13	-----	277-	21-	165-	71292
C2 (FM22)	12/05/22	19:54:46	20:04:26	00:09:39	00:14:21	272-	15-	177-	71292
C5 (FM25)	12/05/22	20:23:28	20:30:20	00:06:51	00:19:02	259-	9-	198-	71293
D6 (FM34)	12/05/22	21:43:07	21:48:17	00:05:09	01:12:47	152-	7-	106-	65040
D7 (FM35)	12/05/22	22:01:26	22:09:05	00:07:39	00:13:08	169-	10-	97-	65040
D8 (FM36)	12/05/22	22:20:40	22:30:30	00:09:49	00:11:34	184-	16-	89-	65040
D3 (FM31)	12/05/22	22:41:10	22:52:56	00:11:45	00:10:40	204-	27-	78-	65040
D2 (FM30)	12/05/22	23:02:41	23:14:44	00:12:02	00:09:45	206-	30-	77-	65040
D6 (FM34)	12/05/22	23:24:12	23:36:36	00:12:24	00:09:27	214-	34-	76-	65041
D7 (FM35)	12/05/22	23:43:44	23:56:30	00:12:46	00:07:07	221-	42-	75-	65041
D8 (FM36)	12/05/23	00:04:04	00:17:11	00:13:07	00:07:33	230-	54-	74-	65041
D3 (FM31)	12/05/23	00:25:44	00:39:05	00:13:21	00:08:32	244-	76-	74-	65041
D2 (FM30)	12/05/23	00:47:26	01:00:49	00:13:22	00:08:21	248-	81-	74-	65041
D6 (FM34)	12/05/23	01:09:13	01:22:38	00:13:24	00:08:23	252-	88-	75-	65042
D7 (FM35)	12/05/23	01:29:03	01:42:28	00:13:25	00:06:25	257-	85-	76-	65042
D8 (FM36)	12/05/23	01:49:42	02:03:08	00:13:26	00:07:13	263-	77-	79-	65042
D3 (FM31)	12/05/23	02:11:42	02:25:05	00:13:23	00:08:33	272-	72-	85-	65042
D2 (FM30)	12/05/23	02:33:27	02:46:51	00:13:23	00:08:22	274-	72-	87-	65042
D6 (FM34)	12/05/23	02:55:17	03:08:41	00:13:24	00:08:25	277-	73-	90-	65043
D7 (FM35)	12/05/23	03:15:09	03:28:33	00:13:24	00:06:27	279-	75-	94-	65043
D8 (FM36)	12/05/23	03:35:48	03:49:15	00:13:27	00:07:14	282-	80-	100-	65043
G2 (FM04)	12/05/23	03:38:31	03:49:41	00:00:26	-----	43-	25-	167-	74211
D3 (FM31)	12/05/23	03:57:44	04:11:07	00:13:23	00:08:02	285-	83-	112-	65043
D2 (FM30)	12/05/23	04:19:28	04:32:50	00:13:22	00:08:20	286-	78-	115-	65043
D6 (FM34)	12/05/23	04:41:15	04:54:36	00:13:20	00:08:25	286-	71-	119-	65044
B6 (FM18)	12/05/23	04:49:43	04:57:08	00:02:32	-----	167-	10-	99-	71979
D7 (FM35)	12/05/23	05:01:06	05:14:19	00:13:13	00:03:58	286-	61-	125-	65044
B7 (FM19)	12/05/23	05:02:31	05:11:14	00:03:05	-----	175-	12-	92-	71979
G2 (FM04)	12/05/23	05:16:45	05:29:12	00:12:26	00:05:31	20-	51-	226-	74212
B8 (FM20)	12/05/23	05:18:04	05:27:54	00:01:01	-----	184-	16-	87-	71979
D8 (FM36)	12/05/23	05:21:44	05:34:45	00:06:50	-----	286-	48-	134-	65044
B4 (FM16)	12/05/23	05:33:10	05:43:40	00:08:55	-----	190-	18-	84-	71979
D3 (FM31)	12/05/23	05:43:48	05:55:58	00:12:10	00:00:07	282-	31-	150-	65044
B3 (FM15)	12/05/23	05:48:09	05:59:22	00:03:24	-----	197-	22-	81-	71979
B2 (FM14)	12/05/23	06:02:22	06:14:09	00:11:46	00:03:00	204-	27-	78-	71979
D2 (FM30)	12/05/23	06:05:35	06:17:28	00:03:19	-----	281-	27-	155-	65044
B1 (FM13)	12/05/23	06:17:41	06:29:52	00:12:11	00:00:12	208-	31-	76-	71979
D6 (FM34)	12/05/23	06:27:29	06:38:56	00:09:03	-----	279-	24-	160-	65045
B6 (FM18)	12/05/23	06:31:52	06:44:37	00:05:41	-----	220-	40-	75-	71980
B7 (FM19)	12/05/23	06:45:20	06:58:16	00:12:56	00:00:42	225-	46-	74-	71980
D7 (FM35)	12/05/23	06:47:33	06:58:10	00:00:06	-----	275-	19-	169-	65045
G2 (FM04)	12/05/23	06:56:47	07:04:27	00:06:17	-----	359-	11-	286-	74213
B8 (FM20)	12/05/23	07:01:29	07:14:35	00:10:07	-----	231-	54-	74-	71980
D8 (FM36)	12/05/23	07:08:41	07:17:43	00:03:08	-----	269-	13-	183-	65045
B4 (FM16)	12/05/23	07:16:57	07:30:09	00:12:26	-----	235-	60-	74-	71980
B3 (FM15)	12/05/23	07:32:21	07:45:40	00:13:19	00:02:11	239-	68-	74-	71980
B2 (FM14)	12/05/23	07:46:56	08:00:18	00:13:22	00:01:16	245-	76-	74-	71980

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A8 (FM12)	12/05/23	07:56:33	08:03:15	00:02:56	-----	164-	9-	102-	75402
B1 (FM13)	12/05/23	08:02:31	08:15:57	00:12:41	-----	249-	83-	75-	71980
A5 (FM09)	12/05/23	08:09:45	08:17:51	00:01:54	-----	173-	11-	98-	75402
B6 (FM18)	12/05/23	08:17:08	08:30:35	00:12:44	-----	256-	86-	76-	71981
A7 (FM11)	12/05/23	08:21:00	08:30:08	00:00:02	-----	180-	14-	89-	75402
B7 (FM19)	12/05/23	08:30:47	08:44:13	00:13:26	00:00:39	259-	82-	77-	71981
A6 (FM10)	12/05/23	08:32:18	08:42:07	00:02:05	-----	186-	16-	86-	75402
A2 (FM06)	12/05/23	08:45:22	08:56:00	00:10:37	00:03:15	193-	20-	82-	75402
B8 (FM20)	12/05/23	08:47:08	09:00:31	00:04:31	-----	263-	78-	79-	71981
A1 (FM05)	12/05/23	08:58:43	09:09:56	00:09:24	-----	200-	23-	80-	75401
B4 (FM16)	12/05/23	09:02:42	09:16:07	00:06:11	-----	266-	75-	81-	71981
A3 (FM07)	12/05/23	09:10:35	09:22:12	00:06:05	-----	205-	27-	78-	75402
B3 (FM15)	12/05/23	09:18:13	09:31:38	00:09:25	-----	269-	73-	83-	71981
A4 (FM08)	12/05/23	09:23:55	09:35:59	00:04:20	-----	212-	33-	77-	75403
B2 (FM14)	12/05/23	09:32:54	09:46:18	00:10:19	-----	272-	72-	85-	71981
A8 (FM12)	12/05/23	09:38:04	09:50:28	00:04:09	-----	219-	39-	76-	75403
B1 (FM13)	12/05/23	09:48:33	10:01:58	00:11:30	-----	275-	72-	88-	71981
A5 (FM09)	12/05/23	09:51:58	10:04:35	00:02:37	-----	223-	44-	76-	75403
B6 (FM18)	12/05/23	10:03:14	10:16:40	00:12:04	-----	279-	75-	93-	71982
A7 (FM11)	12/05/23	10:03:45	10:16:31	00:00:08	-----	228-	50-	74-	75403
C3 (FM23)	12/05/23	10:13:01	10:18:10	00:01:38	-----	152-	7-	106-	71301
A6 (FM10)	12/05/23	10:15:25	10:28:18	00:10:08	-----	232-	56-	74-	75403
B7 (FM19)	12/05/23	10:16:53	10:30:18	00:02:00	-----	281-	77-	96-	71982
A2 (FM06)	12/05/23	10:28:57	10:41:57	00:11:39	-----	237-	64-	74-	75403
B8 (FM20)	12/05/23	10:33:13	10:46:37	00:04:39	-----	282-	81-	100-	71982
C2 (FM22)	12/05/23	10:36:05	10:44:23	00:02:01	-----	173-	12-	97-	71301
A1 (FM05)	12/05/23	10:42:39	10:55:44	00:11:20	-----	242-	71-	74-	75402
B4 (FM16)	12/05/23	10:48:47	11:02:12	00:06:28	-----	283-	85-	103-	71982
A3 (FM07)	12/05/23	10:54:48	11:07:55	00:05:42	-----	245-	78-	74-	75403
C5 (FM25)	12/05/23	11:02:19	11:12:48	00:04:52	-----	190-	18-	84-	71302
B3 (FM15)	12/05/23	11:04:16	11:17:42	00:04:54	-----	285-	90-	107-	71982
A4 (FM08)	12/05/23	11:08:28	11:21:35	00:03:52	-----	251-	87-	75-	75404
B2 (FM14)	12/05/23	11:18:56	11:32:19	00:10:44	-----	285-	83-	112-	71982
A8 (FM12)	12/05/23	11:22:51	11:36:01	00:03:41	-----	255-	87-	76-	75404
C1 (FM21)	12/05/23	11:29:08	11:40:47	00:04:46	-----	200-	26-	80-	71302
B1 (FM13)	12/05/23	11:34:33	11:47:56	00:07:08	-----	286-	75-	116-	71982
A5 (FM09)	12/05/23	11:36:57	11:50:08	00:02:11	-----	258-	83-	77-	75404
C7 (FM27)	12/05/23	11:44:08	11:56:19	00:06:11	-----	210-	31-	76-	71302
C4 (FM24)	12/05/23	11:44:48	11:56:55	00:00:35	-----	209-	30-	77-	71302
G2 (FM04)	12/05/23	11:46:39	11:50:33	00:06:02	-----	51-	6-	13-	74216
A7 (FM11)	12/05/23	11:48:53	12:02:03	00:11:29	-----	262-	79-	78-	75404
B6 (FM18)	12/05/23	11:49:12	12:02:27	00:00:24	-----	286-	62-	124-	71983
C3 (FM23)	12/05/23	11:54:05	12:06:29	00:04:01	-----	214-	34-	76-	71302
A6 (FM10)	12/05/23	12:00:40	12:13:50	00:07:20	-----	264-	76-	80-	75404
B7 (FM19)	12/05/23	12:02:50	12:15:59	00:02:08	-----	286-	55-	128-	71983
A2 (FM06)	12/05/23	12:14:20	12:27:29	00:11:30	-----	268-	74-	82-	75404
C2 (FM22)	12/05/23	12:18:41	12:31:33	00:04:03	-----	223-	44-	75-	71302
B8 (FM20)	12/05/23	12:19:10	12:32:06	00:00:33	-----	285-	47-	134-	71983
A1 (FM05)	12/05/23	12:28:08	12:41:17	00:09:11	-----	271-	72-	84-	75403
B4 (FM16)	12/05/23	12:34:45	12:47:32	00:06:14	-----	285-	42-	138-	71983

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A3 (FM07)	12/05/23	12:40:21	12:53:30	00:05:57	-----	273-	72-	86-	75404
C5 (FM25)	12/05/23	12:46:04	12:59:17	00:05:46	-----	234-	60-	74-	71303
B3 (FM15)	12/05/23	12:50:17	13:02:49	00:03:31	-----	283-	36-	144-	71983
A4 (FM08)	12/05/23	12:54:05	13:07:12	00:04:23	-----	276-	72-	89-	75405
B2 (FM14)	12/05/23	13:05:00	13:17:09	00:09:56	-----	282-	31-	150-	71983
A8 (FM12)	12/05/23	13:08:30	13:21:40	00:04:31	-----	278-	74-	92-	75405
C1 (FM21)	12/05/23	13:13:36	13:26:57	00:05:17	-----	243-	75-	74-	71303
G2 (FM04)	12/05/23	13:19:57	13:31:34	00:04:36	-----	114-	29-	348-	74217
B1 (FM13)	12/05/23	13:20:44	13:32:27	00:00:53	-----	280-	26-	156-	71983
A5 (FM09)	12/05/23	13:22:36	13:35:47	00:03:20	-----	280-	76-	95-	75405
C7 (FM27)	12/05/23	13:29:00	13:42:23	00:06:35	-----	249-	84-	75-	71303
C4 (FM24)	12/05/23	13:29:36	13:43:00	00:00:36	-----	248-	82-	74-	71303
A7 (FM11)	12/05/23	13:34:32	13:47:43	00:04:44	-----	282-	79-	98-	75405
B6 (FM18)	12/05/23	13:35:37	13:46:23	00:01:02	-----	276-	19-	168-	71984
C3 (FM23)	12/05/23	13:39:05	13:52:30	00:06:07	-----	251-	87-	75-	71303
A6 (FM10)	12/05/23	13:46:19	13:59:31	00:07:00	-----	283-	82-	101-	75405
B7 (FM19)	12/05/23	13:49:28	13:59:28	00:00:02	-----	272-	16-	175-	71984
A2 (FM06)	12/05/23	13:59:58	14:13:09	00:13:10	00:00:30	284-	87-	105-	75405
C2 (FM22)	12/05/23	14:04:04	14:17:29	00:04:20	-----	258-	83-	77-	71303
B8 (FM20)	12/05/23	14:06:09	14:15:01	00:02:02	-----	268-	13-	184-	71984
A1 (FM05)	12/05/23	14:13:45	14:26:55	00:11:54	-----	285-	87-	109-	75404
B4 (FM16)	12/05/23	14:22:03	14:29:56	00:03:01	-----	263-	11-	192-	71984
A3 (FM07)	12/05/23	14:25:56	14:39:06	00:09:09	-----	286-	81-	112-	75405
C5 (FM25)	12/05/23	14:31:48	14:45:14	00:06:08	-----	266-	75-	81-	71304
B3 (FM15)	12/05/23	14:38:15	14:44:19	00:00:05	-----	255-	8-	203-	71984
A4 (FM08)	12/05/23	14:39:37	14:52:42	00:08:23	-----	286-	72-	118-	75406
A8 (FM12)	12/05/23	14:54:02	15:07:04	00:13:02	00:01:19	286-	64-	122-	75406
G2 (FM04)	12/05/23	14:57:49	15:10:33	00:03:28	-----	169-	51-	326-	74218
C1 (FM21)	12/05/23	14:59:32	15:12:56	00:02:23	-----	272-	72-	84-	71304
A5 (FM09)	12/05/23	15:08:07	15:21:05	00:08:09	-----	286-	57-	127-	75406
C7 (FM27)	12/05/23	15:15:01	15:28:25	00:07:19	-----	275-	72-	88-	71304
C4 (FM24)	12/05/23	15:15:37	15:29:00	00:00:35	-----	275-	72-	88-	71304
A7 (FM11)	12/05/23	15:20:03	15:32:53	00:03:52	-----	285-	51-	131-	75406
C3 (FM23)	12/05/23	15:25:08	15:38:32	00:05:39	-----	277-	73-	90-	71304
A6 (FM10)	12/05/23	15:31:50	15:44:32	00:06:00	-----	285-	46-	135-	75406
A2 (FM06)	12/05/23	15:45:31	15:58:00	00:12:28	00:00:58	284-	39-	141-	75406
C2 (FM22)	12/05/23	15:50:10	16:03:34	00:05:34	-----	280-	76-	95-	71304
A1 (FM05)	12/05/23	15:59:20	16:11:32	00:07:57	-----	283-	34-	146-	75405
A3 (FM07)	12/05/23	16:11:35	16:23:27	00:11:52	00:00:03	281-	29-	151-	75406
C5 (FM25)	12/05/23	16:17:53	16:31:19	00:07:51	-----	283-	84-	103-	71305
A4 (FM08)	12/05/23	16:25:24	16:36:41	00:05:21	-----	279-	24-	160-	75407
A8 (FM12)	12/05/23	16:39:58	16:50:41	00:10:43	00:03:16	276-	20-	165-	75407
C1 (FM21)	12/05/23	16:45:34	16:58:58	00:08:16	-----	285-	84-	111-	71305
A5 (FM09)	12/05/23	16:54:14	17:04:19	00:05:21	-----	274-	17-	172-	75407
C7 (FM27)	12/05/23	17:01:01	17:14:23	00:10:03	-----	286-	75-	116-	71305
C4 (FM24)	12/05/23	17:01:36	17:14:59	00:00:35	-----	286-	77-	115-	71305
A7 (FM11)	12/05/23	17:06:25	17:15:41	00:00:42	-----	269-	14-	179-	75407
C3 (FM23)	12/05/23	17:11:06	17:24:26	00:08:45	-----	286-	71-	119-	71305
A6 (FM10)	12/05/23	17:18:28	17:26:54	00:02:28	-----	266-	12-	186-	75407
A2 (FM06)	12/05/23	17:32:41	17:39:34	00:06:52	00:05:47	259-	9-	198-	75407

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C2 (FM22)	12/05/23	17:36:06	17:49:17	00:09:42	-----	286-	58-	127-	71305
A1 (FM05)	12/05/23	17:47:17	17:52:09	00:02:51	-----	249-	7-	211-	75406
C5 (FM25)	12/05/23	18:03:50	18:16:39	00:12:49	00:11:41	285-	43-	138-	71306
C1 (FM21)	12/05/23	18:31:36	18:43:50	00:12:14	00:14:57	282-	32-	150-	71306
C7 (FM27)	12/05/23	18:47:11	18:58:54	00:11:43	00:03:20	280-	26-	156-	71306
C4 (FM24)	12/05/23	18:47:44	18:59:34	00:00:39	-----	280-	27-	155-	71306
C3 (FM23)	12/05/23	18:57:20	19:08:45	00:09:11	-----	279-	24-	160-	71306
C2 (FM22)	12/05/23	19:22:38	19:32:54	00:10:15	00:13:53	274-	17-	172-	71306
C5 (FM25)	12/05/23	19:51:07	19:59:05	00:07:58	00:18:12	264-	11-	191-	71307
C1 (FM21)	12/05/23	20:20:34	20:24:10	00:03:35	00:21:28	249-	6-	213-	71307
D7 (FM35)	12/05/23	21:30:23	21:36:54	00:06:30	01:06:13	162-	9-	103-	65054
D8 (FM36)	12/05/23	21:49:21	21:58:29	00:09:08	00:12:27	178-	13-	93-	65054
D3 (FM31)	12/05/23	22:09:39	22:21:04	00:11:24	00:11:09	200-	24-	80-	65054
D2 (FM30)	12/05/23	22:31:07	22:42:53	00:11:46	00:10:03	204-	27-	78-	65054
D6 (FM34)	12/05/23	22:52:37	23:04:46	00:12:09	00:09:43	210-	31-	77-	65055
D7 (FM35)	12/05/23	23:12:06	23:24:41	00:12:35	00:07:19	217-	38-	76-	65055
D8 (FM36)	12/05/23	23:32:22	23:45:23	00:13:00	00:07:41	227-	49-	75-	65055
D3 (FM31)	12/05/23	23:54:00	00:07:18	00:13:19	00:08:35	241-	71-	74-	65055
D2 (FM30)	12/05/24	00:15:41	00:29:03	00:13:21	00:08:22	245-	76-	74-	65055
D6 (FM34)	12/05/24	00:37:27	00:50:51	00:13:23	00:08:24	249-	83-	74-	65056
D7 (FM35)	12/05/24	00:57:16	01:10:41	00:13:25	00:06:24	254-	89-	76-	65056
D8 (FM36)	12/05/24	01:17:54	01:31:21	00:13:26	00:07:13	261-	80-	78-	65056
D3 (FM31)	12/05/24	01:39:54	01:53:17	00:13:23	00:08:33	271-	73-	84-	65056
D2 (FM30)	12/05/24	02:01:39	02:15:03	00:13:23	00:08:22	273-	72-	85-	65056
D6 (FM34)	12/05/24	02:23:29	02:36:53	00:13:23	00:08:26	275-	72-	88-	65057
D7 (FM35)	12/05/24	02:43:20	02:56:44	00:13:23	00:06:27	278-	73-	91-	65057
D8 (FM36)	12/05/24	03:04:00	03:17:27	00:13:26	00:07:15	281-	78-	97-	65057
G2 (FM04)	12/05/24	03:13:54	03:22:45	00:05:18	-----	53-	14-	146-	74225
D3 (FM31)	12/05/24	03:25:57	03:39:21	00:13:24	00:03:11	285-	87-	109-	65057
D2 (FM30)	12/05/24	03:47:41	04:01:04	00:13:23	00:08:20	285-	83-	112-	65057
D6 (FM34)	12/05/24	04:09:29	04:22:51	00:13:22	00:08:24	286-	76-	116-	65058
B6 (FM18)	12/05/24	04:18:42	04:24:50	00:01:58	-----	161-	8-	106-	71993
D7 (FM35)	12/05/24	04:29:19	04:42:36	00:13:17	00:04:28	286-	67-	121-	65058
B7 (FM19)	12/05/24	04:31:18	04:39:03	00:03:03	-----	169-	10-	97-	71993
B8 (FM20)	12/05/24	04:46:43	04:55:53	00:09:09	00:07:40	179-	14-	89-	71993
D8 (FM36)	12/05/24	04:49:57	05:03:04	00:07:11	-----	286-	53-	131-	65058
G2 (FM04)	12/05/24	04:51:12	05:03:56	00:00:52	-----	26-	87-	209-	74226
B4 (FM16)	12/05/24	05:01:45	05:11:42	00:07:45	-----	185-	16-	86-	71993
D3 (FM31)	12/05/24	05:11:58	05:24:23	00:12:24	00:00:16	283-	34-	146-	65058
B3 (FM15)	12/05/24	05:16:39	05:27:25	00:03:02	-----	192-	20-	82-	71993
B2 (FM14)	12/05/24	05:30:49	05:42:15	00:11:26	00:03:23	200-	24-	80-	71993
D2 (FM30)	12/05/24	05:33:45	05:45:55	00:03:39	-----	282-	31-	150-	65058
B1 (FM13)	12/05/24	05:46:04	05:58:01	00:11:56	00:00:09	206-	28-	78-	71993
D6 (FM34)	12/05/24	05:55:38	06:07:25	00:09:24	-----	280-	26-	155-	65059
B6 (FM18)	12/05/24	06:00:13	06:12:46	00:05:21	-----	216-	36-	76-	71994
B7 (FM19)	12/05/24	06:13:39	06:26:26	00:12:47	00:00:52	221-	42-	75-	71994
D7 (FM35)	12/05/24	06:15:38	06:26:43	00:00:16	-----	277-	21-	164-	65059
B8 (FM20)	12/05/24	06:29:46	06:42:46	00:12:59	00:03:03	227-	49-	74-	71994
G2 (FM04)	12/05/24	06:30:42	06:40:28	00:02:01	-----	6-	17-	267-	74227
D8 (FM36)	12/05/24	06:36:40	06:46:23	00:05:55	-----	272-	15-	177-	65059

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B4 (FM16)	12/05/24	06:45:13	06:58:20	00:11:57	-----	231-	55-	74-	71994
D3 (FM31)	12/05/24	07:00:18	07:05:27	00:05:08	00:01:57	251-	7-	210-	65059
B3 (FM15)	12/05/24	07:00:34	07:13:50	00:08:23	-----	236-	63-	74-	71994
B2 (FM14)	12/05/24	07:15:10	07:28:30	00:13:20	00:01:19	241-	71-	74-	71994
B1 (FM13)	12/05/24	07:30:44	07:44:08	00:13:24	00:02:14	246-	79-	74-	71994
A5 (FM09)	12/05/24	07:33:24	07:39:40	00:04:02	-----	164-	8-	101-	75416
A7 (FM11)	12/05/24	07:44:20	07:52:09	00:07:49	00:04:39	171-	11-	96-	75416
B6 (FM18)	12/05/24	07:45:20	07:58:46	00:06:37	-----	253-	90-	76-	71995
A6 (FM10)	12/05/24	07:55:31	08:04:16	00:05:29	-----	177-	13-	91-	75416
B7 (FM19)	12/05/24	07:58:58	08:12:24	00:08:08	-----	257-	85-	77-	71995
A2 (FM06)	12/05/24	08:08:26	08:18:14	00:05:50	-----	186-	16-	86-	75416
B8 (FM20)	12/05/24	08:15:18	08:28:42	00:10:27	-----	261-	80-	78-	71995
A1 (FM05)	12/05/24	08:21:42	08:32:15	00:03:32	-----	192-	19-	83-	75415
B4 (FM16)	12/05/24	08:30:52	08:44:17	00:12:02	-----	264-	77-	79-	71995
A3 (FM07)	12/05/24	08:33:31	08:44:35	00:00:17	-----	198-	23-	80-	75416
B3 (FM15)	12/05/24	08:46:22	08:59:48	00:13:25	00:01:47	267-	75-	81-	71995
A4 (FM08)	12/05/24	08:46:45	08:58:23	00:01:02	-----	205-	28-	79-	75417
A8 (FM12)	12/05/24	09:00:49	09:12:53	00:12:03	00:02:26	212-	33-	76-	75417
B2 (FM14)	12/05/24	09:01:04	09:14:29	00:01:35	-----	271-	73-	84-	71995
A5 (FM09)	12/05/24	09:14:41	09:27:03	00:12:21	00:00:12	217-	38-	77-	75417
B1 (FM13)	12/05/24	09:16:44	09:30:09	00:03:06	-----	273-	72-	86-	71995
A7 (FM11)	12/05/24	09:26:25	09:39:00	00:08:50	-----	222-	43-	75-	75417
B6 (FM18)	12/05/24	09:31:24	09:44:50	00:05:50	-----	277-	73-	91-	71996
A6 (FM10)	12/05/24	09:38:04	09:50:47	00:05:56	-----	226-	48-	74-	75417
B7 (FM19)	12/05/24	09:45:04	09:58:29	00:07:42	-----	279-	75-	94-	71996
A2 (FM06)	12/05/24	09:51:33	10:04:26	00:05:57	-----	232-	55-	74-	75417
B8 (FM20)	12/05/24	10:01:24	10:14:48	00:10:21	-----	281-	78-	98-	71996
C2 (FM22)	12/05/24	10:04:48	10:12:03	00:02:04	-----	167-	10-	98-	71315
A1 (FM05)	12/05/24	10:05:14	10:18:14	00:06:10	-----	236-	63-	74-	75416
B4 (FM16)	12/05/24	10:16:58	10:30:23	00:12:09	-----	283-	81-	100-	71996
A3 (FM07)	12/05/24	10:17:22	10:30:26	00:00:02	-----	241-	69-	74-	75417
C5 (FM25)	12/05/24	10:30:46	10:40:41	00:09:54	00:00:20	185-	16-	86-	71316
A4 (FM08)	12/05/24	10:31:00	10:44:04	00:03:23	-----	246-	79-	74-	75418
B3 (FM15)	12/05/24	10:32:27	10:45:53	00:01:48	-----	284-	87-	104-	71996
A8 (FM12)	12/05/24	10:45:21	10:58:30	00:12:36	-----	251-	86-	75-	75418
B2 (FM14)	12/05/24	10:47:07	11:00:32	00:02:01	-----	285-	87-	109-	71996
C1 (FM21)	12/05/24	10:57:28	11:08:44	00:08:12	-----	196-	23-	82-	71316
A5 (FM09)	12/05/24	10:59:26	11:12:37	00:03:52	-----	254-	88-	76-	75418
B1 (FM13)	12/05/24	11:02:45	11:16:09	00:03:32	-----	286-	80-	113-	71996
A7 (FM11)	12/05/24	11:11:22	11:24:31	00:08:21	-----	258-	83-	77-	75418
C7 (FM27)	12/05/24	11:12:34	11:24:29	00:00:02	-----	206-	28-	78-	71316
C4 (FM24)	12/05/24	11:13:08	11:24:57	00:00:28	-----	205-	27-	78-	71316
B6 (FM18)	12/05/24	11:17:23	11:30:42	00:05:44	-----	286-	68-	121-	71997
C3 (FM23)	12/05/24	11:22:20	11:34:29	00:03:47	-----	210-	31-	77-	71316
A6 (FM10)	12/05/24	11:23:08	11:36:18	00:01:48	-----	261-	80-	78-	75418
B7 (FM19)	12/05/24	11:31:01	11:44:14	00:07:56	-----	286-	61-	125-	71997
A2 (FM06)	12/05/24	11:36:47	11:49:57	00:05:42	-----	264-	76-	79-	75418
C2 (FM22)	12/05/24	11:46:53	11:59:35	00:09:37	-----	219-	40-	76-	71316
B8 (FM20)	12/05/24	11:47:21	12:00:24	00:00:49	-----	286-	52-	130-	71997
A1 (FM05)	12/05/24	11:50:36	12:03:46	00:03:21	-----	267-	74-	81-	75417

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A3 (FM07)	12/05/24	12:02:50	12:15:59	00:12:13	-----	270-	73-	83-	75418
B4 (FM16)	12/05/24	12:02:55	12:15:51	00:00:07	-----	285-	47-	134-	71997
C5 (FM25)	12/05/24	12:14:12	12:27:20	00:11:28	-----	231-	55-	74-	71317
A4 (FM08)	12/05/24	12:16:33	12:29:39	00:02:19	-----	274-	72-	86-	75419
B3 (FM15)	12/05/24	12:18:25	12:31:09	00:01:29	-----	284-	40-	140-	71997
A8 (FM12)	12/05/24	12:30:58	12:44:07	00:12:58	-----	276-	72-	89-	75419
B2 (FM14)	12/05/24	12:33:09	12:45:32	00:01:25	-----	283-	34-	146-	71997
C1 (FM21)	12/05/24	12:41:42	12:55:00	00:09:28	-----	240-	69-	74-	71317
A5 (FM09)	12/05/24	12:45:05	12:58:15	00:03:14	-----	278-	73-	91-	75419
B1 (FM13)	12/05/24	12:48:51	13:00:53	00:02:38	-----	281-	29-	152-	71997
G2 (FM04)	12/05/24	12:55:31	13:05:43	00:04:49	-----	99-	19-	354-	74231
A7 (FM11)	12/05/24	12:57:01	13:10:11	00:04:28	-----	280-	75-	95-	75419
C7 (FM27)	12/05/24	12:57:14	13:10:36	00:00:25	-----	246-	79-	74-	71317
C4 (FM24)	12/05/24	12:57:44	13:11:05	00:00:29	-----	245-	77-	74-	71317
B6 (FM18)	12/05/24	13:03:41	13:14:54	00:03:48	-----	278-	22-	163-	71998
C3 (FM23)	12/05/24	13:07:09	13:20:33	00:05:39	-----	248-	83-	75-	71317
A6 (FM10)	12/05/24	13:08:48	13:21:58	00:01:25	-----	281-	77-	97-	75419
B7 (FM19)	12/05/24	13:17:29	13:28:03	00:06:04	-----	275-	19-	169-	71998
A2 (FM06)	12/05/24	13:22:27	13:35:37	00:07:33	-----	283-	81-	101-	75419
C2 (FM22)	12/05/24	13:32:08	13:45:33	00:09:55	-----	256-	87-	76-	71317
B8 (FM20)	12/05/24	13:34:06	13:43:42	00:01:05	-----	271-	15-	179-	71998
A1 (FM05)	12/05/24	13:36:14	13:49:25	00:05:43	-----	284-	86-	104-	75418
A3 (FM07)	12/05/24	13:48:27	14:01:37	00:12:12	-----	285-	89-	108-	75419
B4 (FM16)	12/05/24	13:49:56	13:58:41	00:02:05	-----	267-	13-	184-	71998
C5 (FM25)	12/05/24	13:59:51	14:13:16	00:13:25	00:01:09	264-	77-	79-	71318
A4 (FM08)	12/05/24	14:02:07	14:15:14	00:01:57	-----	286-	80-	113-	75420
B3 (FM15)	12/05/24	14:05:56	14:13:17	00:01:05	-----	261-	10-	195-	71998
A8 (FM12)	12/05/24	14:16:31	14:29:38	00:13:06	00:03:14	286-	73-	117-	75420
B2 (FM14)	12/05/24	14:21:30	14:26:35	00:03:02	-----	251-	7-	210-	71998
C1 (FM21)	12/05/24	14:27:35	14:40:58	00:13:23	00:01:00	270-	73-	83-	71318
A5 (FM09)	12/05/24	14:30:37	14:43:41	00:02:42	-----	286-	66-	122-	75420
G2 (FM04)	12/05/24	14:32:10	14:45:09	00:01:28	-----	152-	88-	333-	74232
A7 (FM11)	12/05/24	14:42:32	14:55:30	00:10:20	-----	286-	59-	126-	75420
C7 (FM27)	12/05/24	14:43:14	14:56:37	00:01:07	-----	273-	72-	86-	71318
C4 (FM24)	12/05/24	14:43:42	14:57:06	00:00:28	-----	273-	72-	86-	71318
C3 (FM23)	12/05/24	14:53:10	15:06:34	00:09:28	-----	275-	72-	88-	71318
A6 (FM10)	12/05/24	14:54:18	15:07:11	00:00:37	-----	286-	53-	130-	75420
A2 (FM06)	12/05/24	15:07:58	15:20:39	00:12:41	00:00:46	285-	46-	135-	75420
C2 (FM22)	12/05/24	15:18:12	15:31:36	00:10:57	-----	279-	74-	92-	71318
A1 (FM05)	12/05/24	15:21:47	15:34:16	00:02:39	-----	284-	40-	140-	75419
A3 (FM07)	12/05/24	15:34:01	15:46:16	00:12:00	-----	283-	35-	145-	75420
C5 (FM25)	12/05/24	15:45:56	15:59:22	00:13:05	-----	282-	81-	100-	71319
A4 (FM08)	12/05/24	15:47:46	15:59:33	00:00:11	-----	281-	29-	153-	75421
A8 (FM12)	12/05/24	16:02:17	16:13:38	00:11:21	00:02:43	279-	24-	158-	75421
G2 (FM04)	12/05/24	16:13:31	16:22:22	00:08:43	-----	215-	13-	301-	74233
C1 (FM21)	12/05/24	16:13:37	16:27:02	00:04:40	-----	285-	89-	108-	71319
A5 (FM09)	12/05/24	16:16:31	16:27:21	00:00:19	-----	277-	21-	165-	75421
A7 (FM11)	12/05/24	16:28:36	16:38:49	00:10:12	00:01:15	274-	18-	170-	75421
C7 (FM27)	12/05/24	16:29:15	16:42:38	00:03:49	-----	286-	80-	113-	71319
C4 (FM24)	12/05/24	16:29:43	16:43:06	00:00:28	-----	286-	82-	112-	71319

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C3 (FM23)	12/05/24	16:39:10	16:52:32	00:09:25	-----	286-	76-	116-	71319
A6 (FM10)	12/05/24	16:40:34	16:50:11	00:02:02	-----	271-	15-	177-	75421
A2 (FM06)	12/05/24	16:54:35	17:03:02	00:08:27	00:04:24	266-	12-	187-	75421
C2 (FM22)	12/05/24	17:04:09	17:17:24	00:13:15	00:01:06	286-	63-	124-	71319
A1 (FM05)	12/05/24	17:08:52	17:16:00	00:01:02	-----	260-	10-	196-	75420
A3 (FM07)	12/05/24	17:21:45	17:27:10	00:05:24	00:05:45	253-	7-	206-	75421
C5 (FM25)	12/05/24	17:31:52	17:44:50	00:12:58	00:04:42	285-	47-	134-	71320
C1 (FM21)	12/05/24	17:59:37	18:12:05	00:12:28	00:14:46	283-	35-	146-	71320
C7 (FM27)	12/05/24	18:15:20	18:27:22	00:12:01	00:03:15	281-	29-	152-	71320
C4 (FM24)	12/05/24	18:15:47	18:27:54	00:00:31	-----	282-	30-	151-	71320
C3 (FM23)	12/05/24	18:25:18	18:37:05	00:09:10	-----	280-	26-	155-	71320
C2 (FM22)	12/05/24	18:50:33	19:01:19	00:10:46	00:13:27	276-	20-	167-	71320
C5 (FM25)	12/05/24	19:18:51	19:27:42	00:08:50	00:17:32	268-	13-	184-	71321
C1 (FM21)	12/05/24	19:47:44	19:53:28	00:05:44	00:20:01	256-	8-	203-	71321
D7 (FM35)	12/05/24	20:59:33	21:04:26	00:04:53	01:06:05	150-	7-	107-	65068
D8 (FM36)	12/05/24	21:18:06	21:26:25	00:08:18	00:13:40	173-	12-	97-	65068
D3 (FM31)	12/05/24	21:38:11	21:49:11	00:11:00	00:11:46	192-	21-	81-	65068
D2 (FM30)	12/05/24	21:59:36	22:11:01	00:11:25	00:10:24	200-	24-	80-	65068
D6 (FM34)	12/05/24	22:21:04	22:32:56	00:11:52	00:10:02	206-	28-	78-	65069
D7 (FM35)	12/05/24	22:40:29	22:52:52	00:12:22	00:07:32	213-	34-	76-	65069
D8 (FM36)	12/05/24	23:00:42	23:13:35	00:12:52	00:07:50	223-	44-	75-	65069
D3 (FM31)	12/05/24	23:22:15	23:35:32	00:13:16	00:08:40	238-	66-	74-	65069
D2 (FM30)	12/05/24	23:43:56	23:57:16	00:13:19	00:08:24	241-	71-	74-	65069
D6 (FM34)	12/05/25	00:05:42	00:19:04	00:13:22	00:08:26	246-	78-	74-	65070
D7 (FM35)	12/05/25	00:25:29	00:38:53	00:13:24	00:06:24	251-	87-	75-	65070
D8 (FM36)	12/05/25	00:46:06	00:59:33	00:13:26	00:07:12	258-	83-	77-	65070
D3 (FM31)	12/05/25	01:08:06	01:21:30	00:13:23	00:08:33	268-	74-	82-	65070
D2 (FM30)	12/05/25	01:29:51	01:43:15	00:13:23	00:08:21	271-	73-	84-	65070
D6 (FM34)	12/05/25	01:51:41	02:05:05	00:13:23	00:08:26	273-	72-	86-	65071
D7 (FM35)	12/05/25	02:11:32	02:24:56	00:13:23	00:06:27	276-	72-	89-	65071
D8 (FM36)	12/05/25	02:32:12	02:45:38	00:13:26	00:07:15	280-	76-	95-	65071
G2 (FM04)	12/05/25	02:50:49	02:54:02	00:03:12	00:05:11	80-	6-	112-	74239
D3 (FM31)	12/05/25	02:54:10	03:07:34	00:13:24	00:00:07	284-	88-	106-	65071
D2 (FM30)	12/05/25	03:15:54	03:29:18	00:13:24	00:08:19	285-	87-	109-	65071
D6 (FM34)	12/05/25	03:37:42	03:51:06	00:13:23	00:08:24	286-	81-	113-	65072
D7 (FM35)	12/05/25	03:57:31	04:10:51	00:13:20	00:06:25	286-	72-	118-	65072
B7 (FM19)	12/05/25	04:00:13	04:06:50	00:04:01	-----	163-	9-	103-	72007
B8 (FM20)	12/05/25	04:15:26	04:23:49	00:08:22	00:08:36	173-	12-	94-	72007
D8 (FM36)	12/05/25	04:18:09	04:31:22	00:07:32	-----	286-	58-	127-	65072
G2 (FM04)	12/05/25	04:25:48	04:38:18	00:06:56	-----	33-	53-	192-	74240
B4 (FM16)	12/05/25	04:30:23	04:39:40	00:01:22	-----	180-	14-	89-	72007
D3 (FM31)	12/05/25	04:40:09	04:52:47	00:12:37	00:00:28	284-	38-	142-	65072
B3 (FM15)	12/05/25	04:45:11	04:55:27	00:02:40	-----	188-	17-	85-	72007
B2 (FM14)	12/05/25	04:59:19	05:10:21	00:11:02	00:03:51	195-	21-	81-	72007
D2 (FM30)	12/05/25	05:01:55	05:14:20	00:03:59	-----	283-	34-	146-	65072
B1 (FM13)	12/05/25	05:14:31	05:26:08	00:11:37	00:00:10	202-	25-	79-	72007
D6 (FM34)	12/05/25	05:23:47	05:35:52	00:09:44	-----	282-	30-	151-	65073
B6 (FM18)	12/05/25	05:28:36	05:40:55	00:05:02	-----	210-	33-	76-	72008
B7 (FM19)	12/05/25	05:41:59	05:54:36	00:12:37	00:01:04	217-	38-	76-	72008
D7 (FM35)	12/05/25	05:43:44	05:55:14	00:00:37	-----	279-	24-	160-	65073

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B8 (FM20)	12/05/25	05:58:05	06:10:56	00:12:51	00:02:50	223-	45-	75-	72008
D8 (FM36)	12/05/25	06:04:41	06:15:00	00:04:03	-----	274-	17-	172-	65073
G2 (FM04)	12/05/25	06:04:49	06:16:03	00:01:03	-----	12-	27-	249-	74241
B4 (FM16)	12/05/25	06:13:30	06:26:31	00:10:28	-----	228-	50-	74-	72008
D3 (FM31)	12/05/25	06:27:54	06:34:34	00:06:39	00:01:22	258-	9-	200-	65073
B3 (FM15)	12/05/25	06:28:49	06:42:00	00:07:26	-----	233-	57-	74-	72008
B2 (FM14)	12/05/25	06:43:24	06:56:41	00:13:17	00:01:23	238-	66-	74-	72008
D2 (FM30)	12/05/25	06:50:15	06:55:24	00:01:01	-----	251-	7-	210-	65073
B1 (FM13)	12/05/25	06:58:58	07:12:20	00:13:22	00:03:34	243-	74-	74-	72008
A7 (FM11)	12/05/25	07:08:00	07:13:57	00:01:37	-----	161-	8-	107-	75430
B6 (FM18)	12/05/25	07:13:31	07:26:57	00:13:00	-----	250-	85-	75-	72009
A6 (FM10)	12/05/25	07:18:56	07:26:14	00:00:04	-----	168-	10-	99-	75430
B7 (FM19)	12/05/25	07:27:09	07:40:35	00:13:26	00:00:55	254-	89-	76-	72009
A2 (FM06)	12/05/25	07:31:39	07:40:22	00:00:01	-----	177-	13-	91-	75430
B8 (FM20)	12/05/25	07:43:29	07:56:53	00:13:24	00:03:07	258-	83-	77-	72009
A1 (FM05)	12/05/25	07:44:48	07:54:29	00:02:02	-----	184-	16-	87-	75429
G2 (FM04)	12/05/25	07:46:09	07:48:54	00:05:03	-----	342-	6-	317-	74242
A3 (FM07)	12/05/25	07:56:32	08:06:54	00:10:22	00:07:37	191-	18-	84-	75430
B4 (FM16)	12/05/25	07:59:03	08:12:28	00:05:33	-----	261-	80-	78-	72009
A4 (FM08)	12/05/25	08:09:39	08:20:45	00:08:16	-----	197-	23-	82-	75431
B3 (FM15)	12/05/25	08:14:32	08:27:57	00:07:12	-----	265-	76-	80-	72009
A8 (FM12)	12/05/25	08:23:39	08:35:16	00:07:19	-----	206-	27-	78-	75431
B2 (FM14)	12/05/25	08:29:15	08:42:39	00:07:22	-----	268-	74-	82-	72009
A5 (FM09)	12/05/25	08:37:29	08:49:29	00:06:49	-----	210-	32-	77-	75431
B1 (FM13)	12/05/25	08:44:54	08:58:20	00:08:50	-----	271-	73-	85-	72009
A7 (FM11)	12/05/25	08:49:09	09:01:26	00:03:06	-----	216-	36-	76-	75431
B6 (FM18)	12/05/25	08:59:34	09:13:00	00:11:33	-----	276-	73-	89-	72010
A6 (FM10)	12/05/25	09:00:45	09:13:14	00:00:14	-----	221-	41-	75-	75431
B7 (FM19)	12/05/25	09:13:14	09:26:39	00:13:24	-----	278-	74-	92-	72010
A2 (FM06)	12/05/25	09:14:11	09:26:54	00:00:15	-----	226-	48-	74-	75431
A1 (FM05)	12/05/25	09:27:50	09:40:43	00:12:52	00:00:56	231-	54-	74-	75430
B8 (FM20)	12/05/25	09:29:35	09:42:58	00:02:15	-----	280-	76-	95-	72010
C2 (FM22)	12/05/25	09:33:40	09:39:33	00:03:02	-----	156-	8-	102-	71329
A3 (FM07)	12/05/25	09:39:58	09:52:56	00:12:58	00:00:24	235-	61-	74-	75431
B4 (FM16)	12/05/25	09:45:09	09:58:34	00:05:37	-----	281-	79-	98-	72010
A4 (FM08)	12/05/25	09:53:32	10:06:33	00:07:59	-----	241-	71-	74-	75432
C5 (FM25)	12/05/25	09:59:17	10:08:31	00:01:57	-----	179-	14-	89-	71330
B3 (FM15)	12/05/25	10:00:37	10:14:03	00:05:32	-----	283-	83-	102-	72010
A8 (FM12)	12/05/25	10:07:52	10:20:59	00:06:55	-----	246-	78-	74-	75432
B2 (FM14)	12/05/25	10:15:19	10:28:44	00:07:45	-----	284-	89-	106-	72010
A5 (FM09)	12/05/25	10:21:57	10:35:06	00:06:22	-----	250-	85-	75-	75432
C1 (FM21)	12/05/25	10:25:49	10:36:42	00:01:35	-----	194-	20-	84-	71330
B1 (FM13)	12/05/25	10:30:57	10:44:22	00:07:40	-----	285-	85-	110-	72010
A7 (FM11)	12/05/25	10:33:51	10:47:00	00:02:37	-----	254-	89-	76-	75432
C7 (FM27)	12/05/25	10:41:03	10:52:38	00:05:37	-----	202-	25-	79-	71330
C4 (FM24)	12/05/25	10:41:30	10:52:59	00:00:20	-----	200-	24-	79-	71330
B6 (FM18)	12/05/25	10:45:34	10:58:56	00:05:56	-----	286-	73-	117-	72011
A6 (FM10)	12/05/25	10:45:37	10:58:47	00:00:09	-----	256-	85-	76-	75432
C3 (FM23)	12/05/25	10:50:37	11:02:29	00:03:42	-----	205-	27-	78-	71330
B7 (FM19)	12/05/25	10:59:12	11:12:29	00:10:00	-----	286-	66-	122-	72011

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A2 (FM06)	12/05/25	10:59:15	11:12:25	00:00:04	-----	260-	80-	78-	75432
A1 (FM05)	12/05/25	11:13:04	11:26:14	00:13:09	00:00:39	264-	77-	79-	75431
C2 (FM22)	12/05/25	11:15:06	11:27:36	00:01:22	-----	215-	36-	77-	71330
B8 (FM20)	12/05/25	11:15:32	11:28:41	00:01:04	-----	286-	57-	127-	72011
A3 (FM07)	12/05/25	11:25:19	11:38:28	00:09:47	-----	267-	74-	81-	75432
B4 (FM16)	12/05/25	11:31:06	11:44:09	00:05:41	-----	286-	52-	131-	72011
A4 (FM08)	12/05/25	11:39:01	11:52:07	00:07:57	-----	271-	72-	83-	75433
C5 (FM25)	12/05/25	11:42:22	11:55:23	00:03:15	-----	227-	50-	74-	71331
B3 (FM15)	12/05/25	11:46:34	11:59:27	00:04:04	-----	285-	45-	136-	72011
A8 (FM12)	12/05/25	11:53:25	12:06:34	00:07:06	-----	273-	72-	86-	75433
B2 (FM14)	12/05/25	12:01:18	12:13:54	00:07:20	-----	284-	38-	142-	72011
A5 (FM09)	12/05/25	12:07:33	12:20:43	00:06:48	-----	276-	72-	88-	75433
C1 (FM21)	12/05/25	12:09:48	12:23:04	00:02:20	-----	237-	64-	74-	71331
B1 (FM13)	12/05/25	12:17:00	12:29:18	00:06:13	-----	282-	32-	148-	72011
A7 (FM11)	12/05/25	12:19:29	12:32:38	00:03:20	-----	278-	73-	91-	75433
C7 (FM27)	12/05/25	12:25:30	12:38:50	00:06:11	-----	243-	74-	74-	71331
C4 (FM24)	12/05/25	12:25:52	12:39:12	00:00:22	-----	242-	72-	74-	71331
A6 (FM10)	12/05/25	12:31:16	12:44:26	00:05:13	-----	279-	74-	93-	75433
G2 (FM04)	12/05/25	12:31:28	12:39:41	00:04:04	-----	80-	12-	1-	74245
B6 (FM18)	12/05/25	12:31:46	12:43:23	00:03:41	-----	279-	25-	158-	72012
C3 (FM23)	12/05/25	12:35:14	12:48:36	00:05:13	-----	245-	78-	74-	71331
A2 (FM06)	12/05/25	12:44:55	12:58:05	00:09:28	-----	281-	77-	97-	75433
B7 (FM19)	12/05/25	12:45:33	12:56:35	00:01:02	-----	277-	21-	165-	72012
A1 (FM05)	12/05/25	12:58:44	13:11:54	00:13:10	00:02:08	283-	81-	100-	75432
C2 (FM22)	12/05/25	13:00:11	13:13:36	00:01:41	-----	253-	89-	75-	71331
B8 (FM20)	12/05/25	13:02:06	13:12:18	00:01:01	-----	273-	17-	173-	72012
A3 (FM07)	12/05/25	13:10:57	13:24:08	00:11:49	-----	284-	85-	103-	75433
B4 (FM16)	12/05/25	13:17:52	13:27:23	00:03:14	-----	270-	15-	179-	72012
A4 (FM08)	12/05/25	13:24:37	13:37:45	00:10:21	-----	285-	88-	108-	75434
C5 (FM25)	12/05/25	13:27:53	13:41:19	00:03:34	-----	261-	80-	78-	71332
B3 (FM15)	12/05/25	13:33:44	13:42:05	00:00:45	-----	265-	12-	188-	72012
A8 (FM12)	12/05/25	13:39:00	13:52:09	00:10:03	-----	286-	81-	113-	75434
B2 (FM14)	12/05/25	13:49:04	13:55:41	00:03:31	-----	258-	9-	200-	72012
A5 (FM09)	12/05/25	13:53:06	14:06:15	00:10:33	-----	286-	74-	117-	75434
C1 (FM21)	12/05/25	13:55:37	14:09:01	00:02:46	-----	268-	74-	81-	71332
A7 (FM11)	12/05/25	14:05:01	14:18:05	00:09:04	-----	286-	67-	121-	75434
B1 (FM13)	12/05/25	14:05:44	14:09:53	00:08:01	-----	246-	6-	215-	72012
G2 (FM04)	12/05/25	14:06:53	14:19:36	00:09:42	-----	136-	55-	340-	74246
C7 (FM27)	12/05/25	14:11:26	14:24:50	00:05:13	-----	272-	72-	85-	71332
C4 (FM24)	12/05/25	14:11:47	14:25:11	00:00:21	-----	271-	73-	84-	71332
A6 (FM10)	12/05/25	14:16:47	14:29:48	00:04:36	-----	286-	61-	124-	75434
C3 (FM23)	12/05/25	14:21:12	14:34:36	00:04:48	-----	273-	72-	86-	71332
A2 (FM06)	12/05/25	14:30:26	14:43:18	00:08:41	-----	286-	54-	129-	75434
A1 (FM05)	12/05/25	14:44:15	14:56:58	00:12:43	00:00:56	285-	47-	134-	75433
C2 (FM22)	12/05/25	14:46:15	14:59:39	00:02:40	-----	277-	73-	90-	71332
A3 (FM07)	12/05/25	14:56:29	15:09:02	00:09:23	-----	284-	41-	139-	75434
A4 (FM08)	12/05/25	15:10:11	15:22:21	00:12:10	00:01:09	283-	34-	147-	75435
C5 (FM25)	12/05/25	15:13:59	15:27:24	00:05:03	-----	281-	78-	98-	71333
A8 (FM12)	12/05/25	15:24:39	15:36:30	00:09:05	-----	281-	29-	151-	75435
A5 (FM09)	12/05/25	15:38:51	15:50:19	00:11:27	00:02:21	280-	25-	158-	75435

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C1 (FM21)	12/05/25	15:41:40	15:55:05	00:04:46	-----	284-	87-	105-	71333
G2 (FM04)	12/05/25	15:46:31	15:57:47	00:02:41	-----	193-	24-	314-	74247
A7 (FM11)	12/05/25	15:50:53	16:01:50	00:04:02	-----	277-	21-	163-	75435
C7 (FM27)	12/05/25	15:57:28	16:10:52	00:09:02	-----	285-	85-	110-	71333
C4 (FM24)	12/05/25	15:57:49	16:11:14	00:00:21	-----	285-	86-	109-	71333
A6 (FM10)	12/05/25	16:02:48	16:13:16	00:02:01	-----	275-	19-	168-	75435
C3 (FM23)	12/05/25	16:07:13	16:20:37	00:07:21	-----	286-	81-	112-	71333
A2 (FM06)	12/05/25	16:16:41	16:26:17	00:05:40	-----	271-	15-	177-	75435
A1 (FM05)	12/05/25	16:30:49	16:39:26	00:08:37	00:04:31	267-	12-	185-	75434
C2 (FM22)	12/05/25	16:32:12	16:45:31	00:06:04	-----	286-	68-	120-	71333
A3 (FM07)	12/05/25	16:43:27	16:50:54	00:05:23	-----	262-	10-	192-	75435
A4 (FM08)	12/05/25	16:58:06	17:03:00	00:04:54	00:07:11	253-	7-	207-	75436
C5 (FM25)	12/05/25	16:59:55	17:13:00	00:09:59	-----	286-	52-	131-	71334
C1 (FM21)	12/05/25	17:27:39	17:40:19	00:12:40	00:14:38	284-	39-	142-	71334
C7 (FM27)	12/05/25	17:43:31	17:55:48	00:12:17	00:03:12	282-	32-	148-	71334
C4 (FM24)	12/05/25	17:43:50	17:56:12	00:00:24	-----	283-	34-	147-	71334
C3 (FM23)	12/05/25	17:53:17	18:05:22	00:09:09	-----	281-	30-	151-	71334
C2 (FM22)	12/05/25	18:18:29	18:29:43	00:11:14	00:13:06	278-	22-	163-	71334
C5 (FM25)	12/05/25	18:46:39	18:56:16	00:09:36	00:16:56	271-	15-	178-	71335
C1 (FM21)	12/05/25	19:15:14	19:22:19	00:07:05	00:18:57	262-	9-	196-	71335
C7 (FM27)	12/05/25	19:32:16	19:36:22	00:04:06	00:09:56	246-	6-	215-	71335
D8 (FM36)	12/05/25	20:46:58	20:54:15	00:07:16	01:10:35	167-	10-	98-	65082
D3 (FM31)	12/05/25	21:06:44	21:17:17	00:10:32	00:12:29	190-	19-	83-	65082
D2 (FM30)	12/05/25	21:28:08	21:39:08	00:11:00	00:10:51	193-	21-	81-	65082
D6 (FM34)	12/05/25	21:49:32	22:01:05	00:11:32	00:10:23	201-	25-	79-	65083
D7 (FM35)	12/05/25	22:08:55	22:21:01	00:12:06	00:07:49	207-	30-	77-	65083
D8 (FM36)	12/05/25	22:29:03	22:41:46	00:12:42	00:08:01	219-	40-	76-	65083
D3 (FM31)	12/05/25	22:50:32	23:03:45	00:13:12	00:08:46	235-	61-	74-	65083
D2 (FM30)	12/05/25	23:12:12	23:25:29	00:13:16	00:08:27	238-	66-	74-	65083
D6 (FM34)	12/05/25	23:33:57	23:47:18	00:13:20	00:08:28	243-	73-	74-	65084
D7 (FM35)	12/05/25	23:53:42	00:07:06	00:13:23	00:06:24	248-	82-	74-	65084
D8 (FM36)	12/05/26	00:14:18	00:27:45	00:13:26	00:07:12	256-	86-	76-	65084
D3 (FM31)	12/05/26	00:36:18	00:49:42	00:13:23	00:08:33	266-	75-	81-	65084
D2 (FM30)	12/05/26	00:58:03	01:11:27	00:13:23	00:08:21	269-	74-	82-	65084
D6 (FM34)	12/05/26	01:19:54	01:33:17	00:13:23	00:08:26	271-	72-	84-	65085
D7 (FM35)	12/05/26	01:39:44	01:53:07	00:13:23	00:06:26	275-	72-	87-	65085
D8 (FM36)	12/05/26	02:00:24	02:13:50	00:13:26	00:07:16	279-	74-	92-	65085
D3 (FM31)	12/05/26	02:22:23	02:35:48	00:13:24	00:08:33	284-	85-	103-	65085
D2 (FM30)	12/05/26	02:44:07	02:57:32	00:13:24	00:08:19	284-	88-	106-	65085
D6 (FM34)	12/05/26	03:05:56	03:19:20	00:13:24	00:08:24	285-	86-	110-	65086
D7 (FM35)	12/05/26	03:25:44	03:39:06	00:13:22	00:06:23	286-	77-	115-	65086
B7 (FM19)	12/05/26	03:29:19	03:34:22	00:04:04	-----	151-	7-	106-	72021
B8 (FM20)	12/05/26	03:44:16	03:51:37	00:07:21	00:09:53	167-	10-	99-	72021
D8 (FM36)	12/05/26	03:46:21	03:59:38	00:08:01	-----	286-	63-	124-	65086
B4 (FM16)	12/05/26	03:59:06	04:07:38	00:07:59	-----	174-	12-	93-	72021
G2 (FM04)	12/05/26	04:00:37	04:12:13	00:04:35	-----	40-	30-	173-	74254
D3 (FM31)	12/05/26	04:08:21	04:21:07	00:08:54	-----	285-	42-	138-	65086
B3 (FM15)	12/05/26	04:13:47	04:23:26	00:02:18	-----	182-	15-	87-	72021
B2 (FM14)	12/05/26	04:27:51	04:38:25	00:10:34	00:04:24	190-	19-	83-	72021
D2 (FM30)	12/05/26	04:30:06	04:42:44	00:04:19	-----	284-	38-	142-	65086

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B1 (FM13)	12/05/26	04:43:00	04:54:14	00:11:14	00:00:15	197-	22-	81-	72021
D6 (FM34)	12/05/26	04:51:58	05:04:18	00:10:03	-----	283-	33-	147-	65087
B6 (FM18)	12/05/26	04:56:58	05:09:03	00:04:44	-----	208-	29-	77-	72022
B7 (FM19)	12/05/26	05:10:20	05:22:45	00:12:24	00:01:17	214-	34-	76-	72022
D7 (FM35)	12/05/26	05:11:52	05:23:43	00:00:57	-----	280-	27-	155-	65087
B8 (FM20)	12/05/26	05:26:24	05:39:06	00:12:42	00:02:41	220-	40-	75-	72022
D8 (FM36)	12/05/26	05:32:45	05:43:36	00:04:29	-----	277-	20-	168-	65087
G2 (FM04)	12/05/26	05:39:04	05:51:16	00:07:40	-----	18-	43-	232-	74255
B4 (FM16)	12/05/26	05:41:48	05:54:42	00:03:25	-----	224-	45-	75-	72022
D3 (FM31)	12/05/26	05:55:41	06:03:29	00:07:47	00:00:59	263-	11-	193-	65087
B3 (FM15)	12/05/26	05:57:05	06:10:10	00:06:41	-----	229-	52-	74-	72022
B2 (FM14)	12/05/26	06:11:39	06:24:53	00:13:13	00:01:28	235-	61-	74-	72022
D2 (FM30)	12/05/26	06:17:51	06:24:30	00:00:02	-----	258-	9-	200-	65087
B1 (FM13)	12/05/26	06:27:12	06:40:32	00:13:19	00:02:41	240-	68-	74-	72022
D6 (FM34)	12/05/26	06:40:34	06:45:02	00:04:28	00:00:02	248-	7-	213-	65088
B6 (FM18)	12/05/26	06:41:44	06:55:09	00:10:06	-----	247-	81-	74-	72023
A6 (FM10)	12/05/26	06:42:44	06:47:51	00:07:01	-----	152-	7-	106-	75444
A2 (FM06)	12/05/26	06:55:04	07:02:19	00:07:15	00:07:13	167-	10-	99-	75444
B7 (FM19)	12/05/26	06:55:20	07:08:46	00:06:27	-----	251-	87-	75-	72023
A1 (FM05)	12/05/26	07:08:03	07:16:36	00:07:50	-----	176-	12-	92-	75443
B8 (FM20)	12/05/26	07:11:40	07:25:05	00:08:28	-----	256-	86-	76-	72023
G2 (FM04)	12/05/26	07:19:19	07:26:05	00:01:00	-----	356-	9-	294-	74256
A3 (FM07)	12/05/26	07:19:40	07:29:09	00:03:03	-----	183-	15-	88-	75444
B4 (FM16)	12/05/26	07:27:14	07:40:39	00:11:30	-----	259-	82-	77-	72023
A4 (FM08)	12/05/26	07:32:37	07:43:03	00:02:24	-----	189-	19-	86-	75445
B3 (FM15)	12/05/26	07:42:41	07:56:07	00:13:03	-----	263-	78-	79-	72023
A8 (FM12)	12/05/26	07:46:32	07:57:38	00:01:30	-----	199-	23-	80-	75445
B2 (FM14)	12/05/26	07:57:25	08:10:50	00:13:12	-----	266-	75-	81-	72023
A5 (FM09)	12/05/26	08:00:20	08:11:53	00:01:02	-----	202-	26-	79-	75445
A7 (FM11)	12/05/26	08:11:56	08:23:51	00:11:54	00:00:03	210-	31-	77-	75445
B1 (FM13)	12/05/26	08:13:05	08:26:30	00:02:39	-----	269-	73-	83-	72023
A6 (FM10)	12/05/26	08:23:30	08:35:40	00:09:09	-----	214-	34-	76-	75445
B6 (FM18)	12/05/26	08:27:44	08:41:10	00:05:29	-----	274-	72-	87-	72024
A2 (FM06)	12/05/26	08:36:52	08:49:21	00:08:11	-----	220-	40-	75-	75445
B7 (FM19)	12/05/26	08:41:24	08:54:49	00:05:27	-----	276-	73-	90-	72024
A1 (FM05)	12/05/26	08:50:30	09:03:12	00:08:22	-----	225-	47-	75-	75444
B8 (FM20)	12/05/26	08:57:46	09:11:09	00:07:57	-----	279-	75-	93-	72024
A3 (FM07)	12/05/26	09:02:36	09:15:26	00:04:17	-----	230-	53-	74-	75445