

Orbcomm View Satellite Pass Times
 All Passes of All Satellites in Chronological Order
 Observer: Tokyo, 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	08:54:24	09:07:52	00:13:27	11:54:24	242-	81-	59-	71909
A4 (FM08)	12/05/18	09:04:44	09:07:31	00:00:02	-----	139-	6-	113-	75331
D6 (FM34)	12/05/18	09:07:04	09:18:40	00:11:09	-----	285-	25-	164-	64975
B6 (FM18)	12/05/18	09:09:10	09:22:30	00:03:49	-----	251-	63-	58-	71910
A8 (FM12)	12/05/18	09:17:16	09:23:33	00:01:02	-----	158-	8-	98-	75331
B7 (FM19)	12/05/18	09:22:52	09:36:07	00:12:34	-----	255-	56-	58-	71910
D7 (FM35)	12/05/18	09:27:17	09:37:52	00:01:44	-----	279-	19-	173-	64975
A5 (FM09)	12/05/18	09:30:19	09:38:17	00:00:24	-----	168-	11-	95-	75331
B8 (FM20)	12/05/18	09:39:18	09:52:23	00:13:05	00:01:01	261-	48-	57-	71910
A7 (FM11)	12/05/18	09:41:30	09:50:42	00:01:04	-----	177-	14-	85-	75331
D8 (FM36)	12/05/18	09:48:40	09:57:18	00:06:35	-----	271-	12-	189-	64975
A6 (FM10)	12/05/18	09:52:47	10:02:47	00:05:28	-----	183-	17-	81-	75331
B4 (FM16)	12/05/18	09:54:57	10:07:58	00:05:10	-----	265-	45-	58-	71910
A2 (FM06)	12/05/18	10:05:53	10:16:46	00:08:48	-----	191-	21-	77-	75331
B3 (FM15)	12/05/18	10:10:40	10:23:34	00:06:47	-----	270-	40-	58-	71910
A1 (FM05)	12/05/18	10:19:09	10:30:41	00:07:06	-----	198-	26-	73-	75330
B2 (FM14)	12/05/18	10:25:24	10:38:08	00:07:27	-----	274-	37-	59-	71910
A3 (FM07)	12/05/18	10:30:56	10:42:54	00:04:45	-----	204-	31-	71-	75331
B1 (FM13)	12/05/18	10:41:11	10:53:49	00:10:55	-----	278-	35-	60-	71910
A4 (FM08)	12/05/18	10:44:23	10:56:49	00:03:00	-----	212-	40-	68-	75332
B6 (FM18)	12/05/18	10:56:08	11:08:38	00:11:48	-----	285-	32-	63-	71911
A8 (FM12)	12/05/18	10:58:36	11:11:21	00:02:43	-----	218-	49-	65-	75332
B7 (FM19)	12/05/18	11:09:55	11:22:21	00:11:00	-----	288-	31-	65-	71911
A5 (FM09)	12/05/18	11:12:29	11:25:25	00:03:04	-----	224-	59-	64-	75332
A7 (FM11)	12/05/18	11:24:20	11:37:23	00:11:57	-----	229-	70-	62-	75332
B8 (FM20)	12/05/18	11:26:23	11:38:45	00:01:21	-----	291-	31-	67-	71911
A6 (FM10)	12/05/18	11:36:04	11:49:11	00:10:26	-----	233-	79-	61-	75332
B4 (FM16)	12/05/18	11:42:02	11:54:25	00:05:14	-----	293-	31-	70-	71911
A2 (FM06)	12/05/18	11:49:42	12:02:51	00:08:25	-----	239-	87-	59-	75332
C5 (FM25)	12/05/18	11:55:57	12:04:23	00:01:31	-----	170-	12-	89-	71231
B3 (FM15)	12/05/18	11:57:44	12:10:09	00:05:46	-----	296-	31-	73-	71911
A1 (FM05)	12/05/18	12:03:25	12:16:34	00:06:24	-----	244-	76-	59-	75331
B2 (FM14)	12/05/18	12:12:24	12:24:52	00:08:18	-----	298-	32-	76-	71911
G2 (FM04)	12/05/18	12:14:43	12:15:51	00:09:00	-----	47-	5-	32-	74145
A3 (FM07)	12/05/18	12:15:33	12:28:39	00:12:47	-----	249-	66-	58-	75332
C1 (FM21)	12/05/18	12:22:14	12:32:52	00:04:13	-----	187-	19-	81-	71231
B1 (FM13)	12/05/18	12:28:05	12:40:40	00:07:47	-----	300-	34-	80-	71911
A4 (FM08)	12/05/18	12:29:28	12:42:25	00:01:45	-----	255-	55-	57-	75333
C7 (FM27)	12/05/18	12:36:12	12:47:43	00:05:18	-----	195-	24-	74-	71231
C4 (FM24)	12/05/18	12:37:29	12:48:54	00:01:10	-----	194-	24-	75-	71231
B6 (FM18)	12/05/18	12:42:52	12:55:37	00:06:42	-----	302-	37-	87-	71912
A8 (FM12)	12/05/18	12:44:00	12:56:53	00:01:15	-----	260-	49-	57-	75333
C3 (FM23)	12/05/18	12:46:55	12:58:50	00:01:56	-----	200-	28-	72-	71231
B7 (FM19)	12/05/18	12:56:32	13:09:23	00:10:33	-----	302-	40-	91-	71912
A5 (FM09)	12/05/18	12:58:08	13:10:55	00:01:32	-----	264-	44-	56-	75333
A7 (FM11)	12/05/18	13:10:13	13:22:52	00:11:56	-----	269-	40-	58-	75333
C2 (FM22)	12/05/18	13:11:22	13:24:02	00:01:09	-----	211-	39-	68-	71231
B8 (FM20)	12/05/18	13:12:51	13:25:50	00:01:48	-----	303-	44-	96-	71912

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A6 (FM10)	12/05/18	13:22:07	13:34:41	00:08:51	-----	272-	38-	58-	75333
B4 (FM16)	12/05/18	13:28:24	13:41:30	00:06:49	-----	303-	48-	99-	71912
A2 (FM06)	12/05/18	13:35:57	13:48:23	00:06:52	-----	276-	35-	59-	75333
C5 (FM25)	12/05/18	13:38:38	13:51:51	00:03:27	-----	224-	60-	63-	71232
B3 (FM15)	12/05/18	13:43:59	13:57:12	00:05:21	-----	303-	55-	104-	71912
G2 (FM04)	12/05/18	13:46:31	13:58:41	00:01:29	-----	129-	38-	348-	74146
A1 (FM05)	12/05/18	13:49:49	14:02:09	00:03:27	-----	280-	33-	60-	75332
B2 (FM14)	12/05/18	13:58:32	14:11:50	00:09:41	-----	302-	63-	110-	71912
A3 (FM07)	12/05/18	14:02:03	14:14:19	00:02:28	-----	284-	32-	62-	75333
C1 (FM21)	12/05/18	14:06:10	14:19:33	00:05:13	-----	235-	85-	60-	71232
B1 (FM13)	12/05/18	14:14:08	14:27:31	00:07:58	-----	302-	73-	115-	71912
A4 (FM08)	12/05/18	14:16:04	14:28:12	00:00:41	-----	288-	31-	63-	75334
C7 (FM27)	12/05/18	14:20:43	14:34:07	00:05:54	-----	242-	80-	59-	71232
C4 (FM24)	12/05/18	14:21:56	14:35:19	00:01:12	-----	241-	82-	59-	71232
B6 (FM18)	12/05/18	14:28:49	14:42:12	00:06:53	-----	300-	86-	124-	71913
A8 (FM12)	12/05/18	14:30:38	14:42:47	00:00:34	-----	291-	30-	66-	75334
C3 (FM23)	12/05/18	14:31:42	14:45:05	00:02:18	-----	245-	73-	58-	71232
B7 (FM19)	12/05/18	14:42:27	14:55:47	00:10:42	-----	299-	74-	129-	71913
A5 (FM09)	12/05/18	14:44:47	14:56:56	00:01:09	-----	293-	30-	67-	75334
C2 (FM22)	12/05/18	14:56:48	15:10:03	00:13:07	-----	254-	57-	57-	71232
A7 (FM11)	12/05/18	14:56:50	15:09:00	00:01:03	-----	296-	30-	72-	75334
B8 (FM20)	12/05/18	14:58:46	15:11:57	00:02:57	-----	297-	61-	135-	71913
A6 (FM10)	12/05/18	15:08:42	15:20:54	00:08:56	-----	297-	31-	74-	75334
B4 (FM16)	12/05/18	15:14:21	15:27:25	00:06:30	-----	295-	52-	140-	71913
A2 (FM06)	12/05/18	15:22:28	15:34:43	00:07:18	-----	299-	32-	77-	75334
C5 (FM25)	12/05/18	15:24:44	15:37:46	00:03:02	-----	265-	45-	58-	71233
G2 (FM04)	12/05/18	15:25:29	15:37:04	00:00:04	-----	188-	28-	316-	74147
B3 (FM15)	12/05/18	15:30:00	15:42:46	00:05:42	-----	293-	42-	146-	71913
A1 (FM05)	12/05/18	15:36:15	15:48:36	00:05:49	-----	300-	33-	81-	75333
B2 (FM14)	12/05/18	15:44:39	15:57:02	00:08:25	-----	290-	34-	153-	71913
A3 (FM07)	12/05/18	15:48:23	16:00:50	00:03:48	-----	302-	35-	84-	75334
C1 (FM21)	12/05/18	15:52:43	16:05:28	00:04:37	-----	273-	37-	58-	71233
B1 (FM13)	12/05/18	16:00:25	16:12:19	00:06:50	-----	287-	28-	160-	71913
A4 (FM08)	12/05/18	16:02:13	16:14:50	00:02:31	-----	302-	39-	88-	75335
C7 (FM27)	12/05/18	16:07:30	16:20:07	00:05:17	-----	279-	35-	60-	71233
C4 (FM24)	12/05/18	16:08:40	16:21:18	00:01:11	-----	278-	35-	60-	71233
B6 (FM18)	12/05/18	16:15:28	16:26:13	00:04:54	-----	280-	19-	172-	71914
A8 (FM12)	12/05/18	16:16:41	16:29:27	00:03:13	-----	303-	42-	94-	75335
C3 (FM23)	12/05/18	16:18:34	16:31:07	00:01:40	-----	281-	33-	61-	71233
B7 (FM19)	12/05/18	16:29:25	16:39:14	00:08:07	-----	275-	16-	180-	71914
A5 (FM09)	12/05/18	16:30:43	16:43:36	00:04:22	-----	303-	47-	97-	75335
A7 (FM11)	12/05/18	16:42:40	16:55:39	00:12:02	-----	303-	52-	103-	75335
C2 (FM22)	12/05/18	16:43:49	16:56:15	00:00:36	-----	287-	31-	63-	71233
B8 (FM20)	12/05/18	16:46:14	16:54:41	00:01:03	-----	268-	12-	191-	71914
A6 (FM10)	12/05/18	16:54:27	17:07:31	00:12:50	-----	303-	57-	106-	75335
B4 (FM16)	12/05/18	17:02:20	17:09:27	00:01:55	-----	262-	9-	199-	71914
A2 (FM06)	12/05/18	17:08:07	17:21:14	00:11:47	-----	302-	66-	111-	75335
C5 (FM25)	12/05/18	17:11:49	17:24:13	00:02:58	-----	293-	31-	70-	71234
B3 (FM15)	12/05/18	17:19:05	17:23:28	00:00:04	-----	248-	6-	216-	71914
A1 (FM05)	12/05/18	17:21:49	17:35:00	00:11:31	-----	302-	76-	116-	75334

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A3 (FM07)	12/05/18	17:33:55	17:47:06	00:12:06	-----	301-	87-	121-	75335
C1 (FM21)	12/05/18	17:39:43	17:52:10	00:05:03	-----	297-	32-	74-	71234
A4 (FM08)	12/05/18	17:47:42	18:00:51	00:08:41	-----	299-	77-	128-	75336
C7 (FM27)	12/05/18	17:54:24	18:06:58	00:06:06	-----	300-	33-	80-	71234
C4 (FM24)	12/05/18	17:55:35	18:08:07	00:01:09	-----	299-	33-	79-	71234
A8 (FM12)	12/05/18	18:02:10	18:15:14	00:07:06	-----	297-	64-	133-	75336
C3 (FM23)	12/05/18	18:05:23	18:18:01	00:02:47	-----	301-	35-	82-	71234
A5 (FM09)	12/05/18	18:16:13	18:29:09	00:11:08	-----	296-	54-	139-	75336
A7 (FM11)	12/05/18	18:28:13	18:40:55	00:11:46	-----	293-	45-	144-	75336
C2 (FM22)	12/05/18	18:30:27	18:43:17	00:02:21	-----	302-	39-	88-	71234
A6 (FM10)	12/05/18	18:40:03	18:52:32	00:09:15	-----	292-	39-	149-	75336
A2 (FM06)	12/05/18	18:53:51	19:05:53	00:12:01	00:01:18	289-	31-	156-	75336
C5 (FM25)	12/05/18	18:58:11	19:11:17	00:05:24	-----	303-	48-	99-	71235
A1 (FM05)	12/05/18	19:07:43	19:19:14	00:07:56	-----	285-	26-	162-	75335
A3 (FM07)	12/05/18	19:20:00	19:30:58	00:10:58	00:00:45	282-	21-	168-	75336
C1 (FM21)	12/05/18	19:25:51	19:39:09	00:08:10	-----	302-	62-	108-	71235
A4 (FM08)	12/05/18	19:34:09	19:44:03	00:04:54	-----	277-	16-	179-	75337
C7 (FM27)	12/05/18	19:40:27	19:53:50	00:09:47	-----	302-	73-	115-	71235
C4 (FM24)	12/05/18	19:41:38	19:55:00	00:01:10	-----	302-	72-	114-	71235
A8 (FM12)	12/05/18	19:49:02	19:57:45	00:02:45	-----	270-	13-	187-	75337
C3 (FM23)	12/05/18	19:51:23	20:04:47	00:07:01	-----	301-	81-	118-	71235
A5 (FM09)	12/05/18	20:03:38	20:10:58	00:06:11	-----	266-	10-	195-	75337
C2 (FM22)	12/05/18	20:16:22	20:29:44	00:13:21	00:05:23	299-	78-	128-	71235
A7 (FM11)	12/05/18	20:16:27	20:21:42	00:08:01	-----	253-	7-	210-	75337
C5 (FM25)	12/05/18	20:44:07	20:57:11	00:13:04	00:22:24	295-	52-	140-	71236
C1 (FM21)	12/05/18	21:11:56	21:24:24	00:12:27	00:14:45	291-	35-	153-	71236
C7 (FM27)	12/05/18	21:26:43	21:38:38	00:11:55	00:02:19	287-	28-	159-	71236
C4 (FM24)	12/05/18	21:27:52	21:39:52	00:01:13	-----	287-	29-	158-	71236
C3 (FM23)	12/05/18	21:37:46	21:49:19	00:09:26	-----	284-	24-	164-	71236
C2 (FM22)	12/05/18	22:03:13	22:13:21	00:10:08	00:13:53	278-	17-	177-	71236
C5 (FM25)	12/05/18	22:32:05	22:39:12	00:07:07	00:18:44	262-	9-	199-	71237
D3 (FM31)	12/05/18	23:02:04	23:12:13	00:10:08	00:22:51	183-	17-	81-	64983
D2 (FM30)	12/05/18	23:23:24	23:34:11	00:10:46	00:11:11	188-	20-	78-	64983
D6 (FM34)	12/05/18	23:44:43	23:56:11	00:11:27	00:10:31	195-	24-	74-	64984
D7 (FM35)	12/05/19	00:04:07	00:16:17	00:12:10	00:07:56	202-	31-	70-	64984
D8 (FM36)	12/05/19	00:24:14	00:37:07	00:12:52	00:07:57	215-	45-	66-	64984
D3 (FM31)	12/05/19	00:45:43	00:59:04	00:13:20	00:08:35	233-	78-	61-	64984
D2 (FM30)	12/05/19	01:07:26	01:20:49	00:13:22	00:08:22	236-	87-	60-	64984
D6 (FM34)	12/05/19	01:29:12	01:42:35	00:13:23	00:08:22	241-	81-	59-	64985
D7 (FM35)	12/05/19	01:49:07	02:02:28	00:13:20	00:06:31	248-	67-	58-	64985
D8 (FM36)	12/05/19	02:09:53	02:23:07	00:13:13	00:07:25	257-	53-	57-	64985
D3 (FM31)	12/05/19	02:32:11	02:45:00	00:12:48	00:09:03	271-	39-	58-	64985
D2 (FM30)	12/05/19	02:54:02	03:06:46	00:12:43	00:09:02	274-	37-	59-	64985
D6 (FM34)	12/05/19	03:15:57	03:28:35	00:12:37	00:09:11	278-	35-	60-	64986
D7 (FM35)	12/05/19	03:36:03	03:48:33	00:12:29	00:07:27	283-	33-	62-	64986
G2 (FM04)	12/05/19	03:43:26	03:55:39	00:07:06	-----	34-	42-	184-	74154
D8 (FM36)	12/05/19	03:56:57	04:09:23	00:12:25	00:01:18	289-	31-	64-	64986
D3 (FM31)	12/05/19	04:19:13	04:31:38	00:12:24	00:09:49	297-	31-	74-	64986
D2 (FM30)	12/05/19	04:41:02	04:53:29	00:12:27	00:09:24	298-	32-	76-	64986
D6 (FM34)	12/05/19	05:02:52	05:15:25	00:12:33	00:09:22	300-	33-	80-	64987

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
G2 (FM04)	12/05/19	05:22:26	05:33:31	00:11:04	00:07:00	6-	26-	245-	74155
D7 (FM35)	12/05/19	05:22:50	05:35:30	00:02:00	-----	301-	36-	84-	64987
B8 (FM20)	12/05/19	05:40:37	05:45:54	00:05:17	00:05:06	155-	7-	104-	71922
D8 (FM36)	12/05/19	05:43:31	05:56:28	00:10:33	-----	302-	41-	91-	64987
B4 (FM16)	12/05/19	05:55:02	06:02:17	00:05:49	-----	163-	10-	98-	71922
D3 (FM31)	12/05/19	06:05:25	06:18:40	00:13:14	00:03:08	303-	57-	106-	64987
B3 (FM15)	12/05/19	06:09:35	06:18:32	00:00:07	-----	174-	13-	88-	71922
B2 (FM14)	12/05/19	06:23:22	06:33:32	00:10:10	00:04:49	183-	17-	81-	71922
D2 (FM30)	12/05/19	06:27:10	06:40:28	00:06:55	-----	302-	63-	110-	64987
B1 (FM13)	12/05/19	06:38:24	06:49:28	00:09:00	-----	191-	21-	77-	71922
D6 (FM34)	12/05/19	06:48:55	07:02:18	00:12:49	-----	302-	72-	114-	64988
B6 (FM18)	12/05/19	06:52:23	07:04:29	00:02:10	-----	201-	30-	71-	71923
B7 (FM19)	12/05/19	07:05:43	07:18:13	00:12:30	00:01:14	207-	36-	68-	71923
D7 (FM35)	12/05/19	07:08:48	07:22:12	00:03:58	-----	301-	87-	121-	64988
B8 (FM20)	12/05/19	07:21:44	07:34:36	00:12:23	-----	216-	45-	66-	71923
D8 (FM36)	12/05/19	07:29:26	07:42:47	00:08:10	-----	298-	70-	131-	64988
B4 (FM16)	12/05/19	07:37:08	07:50:12	00:07:25	-----	220-	53-	64-	71923
D3 (FM31)	12/05/19	07:51:27	08:04:08	00:12:41	00:01:14	292-	39-	149-	64988
B3 (FM15)	12/05/19	07:52:32	08:05:48	00:01:40	-----	226-	64-	62-	71923
B2 (FM14)	12/05/19	08:07:01	08:20:23	00:13:21	00:01:12	233-	78-	61-	71923
D2 (FM30)	12/05/19	08:13:16	08:25:41	00:05:18	-----	290-	34-	153-	64988
B1 (FM13)	12/05/19	08:22:36	08:36:01	00:10:20	-----	238-	89-	60-	71923
D6 (FM34)	12/05/19	08:35:10	08:47:09	00:11:07	-----	287-	28-	159-	64989
B6 (FM18)	12/05/19	08:37:18	08:50:41	00:03:32	-----	247-	70-	58-	71924
B7 (FM19)	12/05/19	08:51:00	09:04:18	00:13:18	00:00:18	252-	61-	58-	71924
A5 (FM09)	12/05/19	08:54:06	08:59:47	00:04:03	-----	154-	8-	99-	75345
D7 (FM35)	12/05/19	08:55:18	09:06:28	00:06:40	-----	282-	22-	168-	64989
A7 (FM11)	12/05/19	09:04:56	09:12:35	00:06:07	-----	167-	10-	95-	75345
B8 (FM20)	12/05/19	09:07:25	09:20:35	00:07:59	-----	258-	53-	57-	71924
A6 (FM10)	12/05/19	09:16:04	09:24:48	00:04:13	-----	174-	13-	89-	75345
D8 (FM36)	12/05/19	09:16:32	09:26:02	00:01:14	-----	275-	14-	182-	64989
B4 (FM16)	12/05/19	09:23:03	09:36:09	00:10:06	-----	262-	48-	58-	71924
A2 (FM06)	12/05/19	09:28:58	09:38:55	00:02:46	-----	183-	17-	82-	75345
B3 (FM15)	12/05/19	09:38:45	09:51:44	00:12:48	-----	266-	43-	58-	71924
A1 (FM05)	12/05/19	09:42:09	09:52:56	00:01:12	-----	190-	21-	77-	75344
B2 (FM14)	12/05/19	09:53:29	10:06:19	00:12:49	00:00:33	271-	39-	58-	71924
A3 (FM07)	12/05/19	09:53:51	10:05:14	00:01:04	-----	196-	25-	74-	75345
A4 (FM08)	12/05/19	10:07:12	10:19:12	00:12:00	00:01:57	204-	32-	71-	75346
B1 (FM13)	12/05/19	10:09:16	10:22:00	00:02:47	-----	276-	36-	59-	71924
A8 (FM12)	12/05/19	10:21:21	10:33:45	00:11:45	-----	210-	39-	67-	75346
B6 (FM18)	12/05/19	10:24:13	10:36:46	00:03:00	-----	282-	33-	62-	71925
A5 (FM09)	12/05/19	10:35:10	10:47:52	00:11:06	-----	217-	47-	66-	75346
B7 (FM19)	12/05/19	10:38:00	10:50:28	00:02:35	-----	286-	32-	63-	71925
A7 (FM11)	12/05/19	10:46:57	10:59:50	00:09:22	-----	223-	57-	64-	75346
B8 (FM20)	12/05/19	10:54:29	11:06:51	00:07:00	-----	289-	31-	66-	71925
A6 (FM10)	12/05/19	10:58:39	11:11:39	00:04:47	-----	227-	65-	62-	75346
B4 (FM16)	12/05/19	11:10:08	11:22:31	00:10:52	-----	291-	31-	68-	71925
A2 (FM06)	12/05/19	11:12:13	11:25:20	00:02:48	-----	233-	79-	61-	75346
C5 (FM25)	12/05/19	11:24:43	11:31:58	00:06:37	-----	163-	10-	98-	71245
B3 (FM15)	12/05/19	11:25:50	11:38:14	00:06:16	-----	294-	31-	71-	71925

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A1 (FM05)	12/05/19	11:25:54	11:39:03	00:00:49	-----	238-	89-	60-	75345
A3 (FM07)	12/05/19	11:38:01	11:51:10	00:12:06	-----	243-	78-	59-	75346
B2 (FM14)	12/05/19	11:40:31	11:52:57	00:01:46	-----	297-	31-	74-	71925
C1 (FM21)	12/05/19	11:50:43	12:00:42	00:07:44	-----	181-	16-	85-	71245
A4 (FM08)	12/05/19	11:51:52	12:04:55	00:04:13	-----	250-	65-	57-	75347
B1 (FM13)	12/05/19	11:56:14	12:08:45	00:03:50	-----	298-	33-	77-	71925
C7 (FM27)	12/05/19	12:04:45	12:15:47	00:07:02	-----	191-	21-	77-	71245
C4 (FM24)	12/05/19	12:05:56	12:16:51	00:01:03	-----	189-	20-	77-	71245
A8 (FM12)	12/05/19	12:06:22	12:19:22	00:02:31	-----	255-	56-	57-	75347
B6 (FM18)	12/05/19	12:11:01	12:23:42	00:04:19	-----	301-	35-	84-	71926
C3 (FM23)	12/05/19	12:15:16	12:26:45	00:03:03	-----	195-	24-	74-	71245
A5 (FM09)	12/05/19	12:20:30	12:33:25	00:06:39	-----	259-	50-	56-	75347
B7 (FM19)	12/05/19	12:24:42	12:37:28	00:04:03	-----	302-	38-	88-	71926
A7 (FM11)	12/05/19	12:32:33	12:45:21	00:07:52	-----	264-	45-	57-	75347
C2 (FM22)	12/05/19	12:39:38	12:52:02	00:06:41	-----	206-	34-	70-	71245
B8 (FM20)	12/05/19	12:41:02	12:53:55	00:01:53	-----	303-	41-	92-	71926
A6 (FM10)	12/05/19	12:44:26	12:57:08	00:03:13	-----	267-	42-	58-	75347
B4 (FM16)	12/05/19	12:56:35	13:09:37	00:12:28	-----	303-	45-	96-	71926
A2 (FM06)	12/05/19	12:58:16	13:10:49	00:01:12	-----	272-	38-	58-	75347
C5 (FM25)	12/05/19	13:06:48	13:19:53	00:09:03	-----	220-	53-	64-	71246
A1 (FM05)	12/05/19	13:12:08	13:24:35	00:04:42	-----	276-	36-	59-	75346
B3 (FM15)	12/05/19	13:12:09	13:25:18	00:00:43	-----	303-	50-	101-	71926
G2 (FM04)	12/05/19	13:21:59	13:32:47	00:07:28	-----	112-	22-	358-	74160
A3 (FM07)	12/05/19	13:24:23	13:36:45	00:03:58	-----	279-	34-	60-	75347
B2 (FM14)	12/05/19	13:26:44	13:39:59	00:03:13	-----	303-	58-	106-	71926
C1 (FM21)	12/05/19	13:34:15	13:47:36	00:07:37	-----	232-	76-	61-	71246
A4 (FM08)	12/05/19	13:38:23	13:50:35	00:03:00	-----	284-	32-	60-	75348
B1 (FM13)	12/05/19	13:42:21	13:55:41	00:05:05	-----	302-	66-	111-	71926
C7 (FM27)	12/05/19	13:48:57	14:02:20	00:06:39	-----	238-	89-	60-	71246
C4 (FM24)	12/05/19	13:50:02	14:03:26	00:01:05	-----	237-	89-	60-	71246
A8 (FM12)	12/05/19	13:52:58	14:05:08	00:01:42	-----	288-	31-	64-	75348
B6 (FM18)	12/05/19	13:57:00	14:10:24	00:05:15	-----	301-	85-	120-	71927
C3 (FM23)	12/05/19	13:59:45	14:13:09	00:02:44	-----	242-	81-	59-	71246
A5 (FM09)	12/05/19	14:07:08	14:19:17	00:06:08	-----	290-	30-	64-	75348
B7 (FM19)	12/05/19	14:10:38	14:24:01	00:04:43	-----	300-	83-	125-	71927
A7 (FM11)	12/05/19	14:19:12	14:31:20	00:07:19	-----	293-	30-	68-	75348
C2 (FM22)	12/05/19	14:24:48	14:38:07	00:06:46	-----	251-	63-	57-	71246
B8 (FM20)	12/05/19	14:26:57	14:40:13	00:02:06	-----	298-	69-	131-	71927
A6 (FM10)	12/05/19	14:31:04	14:43:13	00:03:00	-----	295-	30-	70-	75348
B4 (FM16)	12/05/19	14:42:31	14:55:42	00:12:28	-----	297-	59-	136-	71927
A2 (FM06)	12/05/19	14:44:51	14:57:02	00:01:19	-----	297-	31-	74-	75348
C5 (FM25)	12/05/19	14:52:42	15:05:49	00:08:47	-----	262-	48-	58-	71247
B3 (FM15)	12/05/19	14:58:07	15:11:06	00:05:16	-----	294-	48-	142-	71927
A1 (FM05)	12/05/19	14:58:40	15:10:54	00:00:01	-----	299-	32-	77-	75347
G2 (FM04)	12/05/19	14:59:20	15:12:01	00:01:06	-----	169-	52-	327-	74161
A3 (FM07)	12/05/19	15:10:50	15:23:10	00:11:09	-----	300-	33-	80-	75348
B2 (FM14)	12/05/19	15:12:46	15:25:25	00:02:14	-----	292-	39-	149-	71927
C1 (FM21)	12/05/19	15:20:40	15:33:30	00:08:05	-----	270-	40-	57-	71247
A4 (FM08)	12/05/19	15:24:41	15:37:08	00:03:38	-----	301-	36-	84-	75349
B1 (FM13)	12/05/19	15:28:30	15:40:45	00:03:36	-----	289-	32-	155-	71927

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C7 (FM27)	12/05/19	15:35:37	15:48:18	00:07:33	-----	276-	36-	59-	71247
C4 (FM24)	12/05/19	15:36:40	15:49:23	00:01:04	-----	275-	37-	59-	71247
A8 (FM12)	12/05/19	15:39:09	15:51:45	00:02:22	-----	303-	38-	89-	75349
B6 (FM18)	12/05/19	15:43:29	15:54:46	00:03:00	-----	283-	23-	167-	71928
C3 (FM23)	12/05/19	15:46:30	15:59:08	00:04:22	-----	278-	35-	60-	71247
A5 (FM09)	12/05/19	15:53:12	16:05:57	00:06:48	-----	303-	42-	92-	75349
B7 (FM19)	12/05/19	15:57:21	16:07:53	00:01:55	-----	279-	18-	174-	71928
A7 (FM11)	12/05/19	16:05:09	16:18:00	00:10:07	-----	303-	46-	97-	75349
C2 (FM22)	12/05/19	16:11:46	16:24:15	00:06:14	-----	284-	32-	61-	71247
B8 (FM20)	12/05/19	16:14:04	16:23:26	00:00:04	-----	273-	14-	184-	71928
A6 (FM10)	12/05/19	16:16:57	16:29:53	00:06:26	-----	303-	50-	101-	75349
B4 (FM16)	12/05/19	16:30:02	16:38:21	00:08:18	00:00:09	268-	11-	192-	71928
A2 (FM06)	12/05/19	16:30:37	16:43:38	00:05:17	-----	303-	57-	106-	75349
C5 (FM25)	12/05/19	16:39:47	16:52:11	00:08:32	-----	291-	31-	68-	71248
A1 (FM05)	12/05/19	16:44:20	16:57:26	00:05:15	-----	302-	65-	111-	75348
B3 (FM15)	12/05/19	16:46:24	16:52:44	00:04:04	-----	258-	8-	204-	71928
A3 (FM07)	12/05/19	16:56:26	17:09:36	00:13:10	00:03:41	302-	74-	115-	75349
C1 (FM21)	12/05/19	17:07:42	17:20:07	00:10:30	-----	296-	31-	72-	71248
A4 (FM08)	12/05/19	17:10:11	17:23:23	00:03:16	-----	300-	89-	122-	75350
C7 (FM27)	12/05/19	17:22:34	17:35:05	00:11:41	-----	299-	32-	77-	71248
C4 (FM24)	12/05/19	17:23:38	17:36:07	00:01:02	-----	298-	32-	77-	71248
A8 (FM12)	12/05/19	17:24:38	17:37:48	00:01:40	-----	299-	78-	127-	75350
C3 (FM23)	12/05/19	17:33:24	17:45:57	00:08:09	-----	300-	33-	80-	71248
A5 (FM09)	12/05/19	17:38:41	17:51:47	00:05:49	-----	298-	67-	133-	75350
A7 (FM11)	12/05/19	17:50:39	18:03:36	00:11:49	-----	296-	56-	138-	75350
C2 (FM22)	12/05/19	17:58:29	18:11:14	00:07:37	-----	301-	37-	85-	71248
A6 (FM10)	12/05/19	18:02:28	18:15:16	00:04:02	-----	294-	48-	142-	75350
A2 (FM06)	12/05/19	18:16:13	18:28:42	00:12:28	00:00:56	292-	39-	149-	75350
C5 (FM25)	12/05/19	18:26:14	18:39:15	00:10:33	-----	303-	45-	96-	71249
A1 (FM05)	12/05/19	18:30:02	18:42:08	00:02:52	-----	289-	32-	155-	75349
A3 (FM07)	12/05/19	18:42:17	18:53:57	00:11:40	00:00:08	286-	27-	160-	75350
C1 (FM21)	12/05/19	18:53:55	19:07:08	00:13:11	-----	303-	56-	105-	71249
A4 (FM08)	12/05/19	18:56:18	19:07:09	00:00:01	-----	282-	21-	170-	75351
C7 (FM27)	12/05/19	19:08:41	19:22:01	00:13:20	00:01:31	302-	66-	111-	71249
C4 (FM24)	12/05/19	19:09:44	19:23:04	00:01:02	-----	302-	65-	110-	71249
A8 (FM12)	12/05/19	19:11:03	19:21:04	00:02:00	-----	277-	17-	177-	75351
C3 (FM23)	12/05/19	19:19:26	19:32:49	00:11:45	-----	302-	73-	115-	71249
A5 (FM09)	12/05/19	19:25:28	19:34:29	00:01:40	-----	273-	13-	185-	75351
A7 (FM11)	12/05/19	19:37:56	19:45:32	00:07:35	00:03:26	265-	10-	194-	75351
C2 (FM22)	12/05/19	19:44:25	19:57:49	00:12:17	-----	300-	87-	124-	71249
A6 (FM10)	12/05/19	19:50:20	19:56:30	00:01:01	-----	258-	8-	204-	75351
C5 (FM25)	12/05/19	20:12:09	20:25:21	00:13:12	00:15:38	297-	60-	136-	71250
C1 (FM21)	12/05/19	20:39:56	20:52:38	00:12:42	00:14:35	292-	41-	148-	71250
C7 (FM27)	12/05/19	20:54:50	21:07:06	00:12:15	00:02:11	289-	32-	155-	71250
C4 (FM24)	12/05/19	20:55:52	21:08:12	00:01:06	-----	289-	33-	154-	71250
C3 (FM23)	12/05/19	21:05:41	21:17:37	00:09:25	-----	287-	28-	159-	71250
C2 (FM22)	12/05/19	21:31:03	21:41:48	00:10:45	00:13:25	281-	20-	172-	71250
C5 (FM25)	12/05/19	21:59:39	22:07:59	00:08:19	00:17:50	268-	12-	191-	71251
C1 (FM21)	12/05/19	22:29:25	22:32:53	00:03:27	00:21:26	250-	6-	215-	71251
D3 (FM31)	12/05/19	22:30:46	22:40:09	00:07:16	-----	177-	14-	85-	64997

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D2 (FM30)	12/05/19	22:52:02	23:02:11	00:10:09	00:11:52	183-	17-	81-	64997
D6 (FM34)	12/05/19	23:13:16	23:24:15	00:10:58	00:11:05	190-	21-	77-	64998
D7 (FM35)	12/05/19	23:32:35	23:44:24	00:11:48	00:08:20	197-	27-	72-	64998
D8 (FM36)	12/05/19	23:52:37	00:05:16	00:12:39	00:08:13	210-	39-	68-	64998
D3 (FM31)	12/05/20	00:14:00	00:27:16	00:13:17	00:08:42	229-	69-	62-	64998
D2 (FM30)	12/05/20	00:35:41	00:49:02	00:13:20	00:08:24	233-	78-	61-	64998
D6 (FM34)	12/05/20	00:57:25	01:10:49	00:13:23	00:08:23	238-	90-	60-	64999
D7 (FM35)	12/05/20	01:17:18	01:30:41	00:13:22	00:06:29	245-	75-	58-	64999
D8 (FM36)	12/05/20	01:38:02	01:51:19	00:13:17	00:07:21	254-	58-	57-	64999
D3 (FM31)	12/05/20	02:00:17	02:13:11	00:12:53	00:08:58	268-	41-	58-	64999
D2 (FM30)	12/05/20	02:22:09	02:34:57	00:12:48	00:08:57	271-	39-	58-	64999
D6 (FM34)	12/05/20	02:44:04	02:56:46	00:12:42	00:09:06	275-	36-	59-	65000
D7 (FM35)	12/05/20	03:04:09	03:16:43	00:12:33	00:07:22	280-	34-	61-	65000
G2 (FM04)	12/05/20	03:18:31	03:29:19	00:10:48	00:01:48	45-	22-	164-	74168
D8 (FM36)	12/05/20	03:25:04	03:37:32	00:08:12	-----	287-	31-	63-	65000
D3 (FM31)	12/05/20	03:47:22	03:59:45	00:12:22	00:09:50	295-	31-	72-	65000
D2 (FM30)	12/05/20	04:09:11	04:21:36	00:12:25	00:09:26	297-	31-	74-	65000
D6 (FM34)	12/05/20	04:31:02	04:43:32	00:12:29	00:09:26	298-	32-	77-	65001
D7 (FM35)	12/05/20	04:51:00	05:03:36	00:12:35	00:07:28	300-	34-	82-	65001
G2 (FM04)	12/05/20	04:56:35	05:08:49	00:05:12	-----	14-	45-	226-	74169
D8 (FM36)	12/05/20	05:11:43	05:24:34	00:12:51	00:02:54	302-	39-	88-	65001
B4 (FM16)	12/05/20	05:24:10	05:29:48	00:05:14	-----	157-	8-	102-	71936
D3 (FM31)	12/05/20	05:33:38	05:46:49	00:13:10	00:03:50	303-	53-	103-	65001
B3 (FM15)	12/05/20	05:38:23	05:46:17	00:00:03	-----	167-	11-	94-	71936
B2 (FM14)	12/05/20	05:52:02	06:01:28	00:09:26	00:05:44	177-	14-	85-	71936
D2 (FM30)	12/05/20	05:55:23	06:08:38	00:07:10	-----	303-	57-	106-	65001
B1 (FM13)	12/05/20	06:06:59	06:17:29	00:08:50	-----	185-	18-	80-	71936
D6 (FM34)	12/05/20	06:17:09	06:30:30	00:13:01	-----	302-	65-	111-	65002
B6 (FM18)	12/05/20	06:20:49	06:32:33	00:02:03	-----	198-	26-	73-	71937
B7 (FM19)	12/05/20	06:34:07	06:46:20	00:12:12	00:01:33	202-	31-	70-	71937
D7 (FM35)	12/05/20	06:37:01	06:50:24	00:04:04	-----	301-	79-	117-	65002
G2 (FM04)	12/05/20	06:38:15	06:42:05	00:08:01	-----	334-	6-	299-	74170
B8 (FM20)	12/05/20	06:50:06	07:02:44	00:12:37	00:08:00	210-	39-	67-	71937
D8 (FM36)	12/05/20	06:57:39	07:11:02	00:08:18	-----	299-	79-	127-	65002
B4 (FM16)	12/05/20	07:05:27	07:18:22	00:07:19	-----	216-	46-	66-	71937
D3 (FM31)	12/05/20	07:19:37	07:32:30	00:12:52	00:01:15	294-	45-	144-	65002
B3 (FM15)	12/05/20	07:20:48	07:33:58	00:01:27	-----	222-	57-	64-	71937
B2 (FM14)	12/05/20	07:35:16	07:48:34	00:13:18	00:01:18	229-	69-	62-	71937
D2 (FM30)	12/05/20	07:41:25	07:54:06	00:05:32	-----	292-	39-	149-	65002
B1 (FM13)	12/05/20	07:50:49	08:04:13	00:10:06	-----	234-	82-	60-	71937
D6 (FM34)	12/05/20	08:03:18	08:15:37	00:11:23	-----	289-	33-	154-	65003
B6 (FM18)	12/05/20	08:05:28	08:18:53	00:03:16	-----	244-	77-	59-	71938
B7 (FM19)	12/05/20	08:19:08	08:32:30	00:13:21	00:00:15	248-	67-	58-	71938
D7 (FM35)	12/05/20	08:23:22	08:35:00	00:02:29	-----	285-	25-	163-	65003
A7 (FM11)	12/05/20	08:28:48	08:34:04	00:00:05	-----	152-	7-	103-	75359
B8 (FM20)	12/05/20	08:35:32	08:48:46	00:13:14	00:01:28	254-	57-	58-	71938
A6 (FM10)	12/05/20	08:39:36	08:46:36	00:02:01	-----	163-	9-	99-	75359
D8 (FM36)	12/05/20	08:44:29	08:54:42	00:08:06	-----	278-	17-	177-	65003
B4 (FM16)	12/05/20	08:51:10	09:04:20	00:09:38	-----	258-	52-	57-	71938
A2 (FM06)	12/05/20	08:52:14	09:00:57	00:03:02	-----	173-	13-	89-	75359

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A1 (FM05)	12/05/20	09:05:16	09:15:05	00:09:48	00:04:19	182-	16-	82-	75358
B3 (FM15)	12/05/20	09:06:49	09:19:54	00:04:48	-----	263-	46-	58-	71938
D3 (FM31)	12/05/20	09:08:17	09:13:41	00:06:01	-----	253-	7-	211-	65003
A3 (FM07)	12/05/20	09:16:54	09:27:30	00:10:35	00:03:12	188-	20-	78-	75359
B2 (FM14)	12/05/20	09:21:34	09:34:29	00:07:00	-----	268-	41-	58-	71938
A4 (FM08)	12/05/20	09:30:05	09:41:31	00:07:01	-----	196-	26-	75-	75360
B1 (FM13)	12/05/20	09:37:21	09:50:09	00:08:38	-----	273-	38-	59-	71938
A8 (FM12)	12/05/20	09:44:09	09:56:07	00:05:57	-----	203-	31-	70-	75360
B6 (FM18)	12/05/20	09:52:17	10:04:54	00:08:47	-----	280-	34-	61-	71939
A5 (FM09)	12/05/20	09:57:55	10:10:17	00:05:22	-----	209-	38-	68-	75360
B7 (FM19)	12/05/20	10:06:05	10:18:36	00:08:18	-----	283-	33-	62-	71939
A7 (FM11)	12/05/20	10:09:38	10:22:17	00:03:40	-----	216-	45-	66-	75360
A6 (FM10)	12/05/20	10:21:17	10:34:06	00:11:49	-----	221-	53-	64-	75360
B8 (FM20)	12/05/20	10:22:34	10:34:58	00:00:52	-----	287-	31-	64-	71939
A2 (FM06)	12/05/20	10:34:48	10:47:48	00:12:49	-----	227-	65-	62-	75360
B4 (FM16)	12/05/20	10:38:14	10:50:38	00:02:49	-----	289-	31-	66-	71939
A1 (FM05)	12/05/20	10:48:27	11:01:33	00:10:55	-----	232-	77-	61-	75359
C5 (FM25)	12/05/20	10:53:44	10:59:20	00:02:01	-----	157-	8-	102-	71259
B3 (FM15)	12/05/20	10:53:55	11:06:19	00:06:58	-----	292-	31-	69-	71939
A3 (FM07)	12/05/20	11:00:32	11:13:41	00:07:22	-----	237-	88-	60-	75360
B2 (FM14)	12/05/20	11:08:39	11:21:02	00:07:21	-----	295-	31-	72-	71939
A4 (FM08)	12/05/20	11:14:19	11:27:24	00:06:22	-----	244-	76-	58-	75361
C1 (FM21)	12/05/20	11:19:17	11:28:27	00:01:02	-----	175-	14-	90-	71259
B1 (FM13)	12/05/20	11:24:22	11:36:50	00:08:22	-----	297-	32-	75-	71939
A8 (FM12)	12/05/20	11:28:46	11:41:51	00:05:01	-----	249-	66-	58-	75361
C7 (FM27)	12/05/20	11:33:22	11:43:49	00:01:58	-----	185-	18-	80-	71259
C4 (FM24)	12/05/20	11:34:27	11:44:45	00:00:55	-----	184-	17-	81-	71259
B6 (FM18)	12/05/20	11:39:10	11:51:46	00:07:01	-----	300-	34-	81-	71940
A5 (FM09)	12/05/20	11:42:53	11:55:54	00:04:08	-----	254-	58-	57-	75361
C3 (FM23)	12/05/20	11:43:39	11:54:39	00:01:01	-----	190-	21-	77-	71259
B7 (FM19)	12/05/20	11:52:51	12:05:33	00:10:53	-----	301-	36-	85-	71940
A7 (FM11)	12/05/20	11:54:55	12:07:50	00:02:16	-----	258-	51-	57-	75361
A6 (FM10)	12/05/20	12:06:47	12:19:37	00:11:47	-----	262-	47-	57-	75361
C2 (FM22)	12/05/20	12:07:55	12:19:58	00:00:21	-----	201-	30-	72-	71259
B8 (FM20)	12/05/20	12:09:12	12:22:00	00:02:02	-----	302-	39-	89-	71940
A2 (FM06)	12/05/20	12:20:35	12:33:17	00:11:16	-----	267-	42-	57-	75361
B4 (FM16)	12/05/20	12:24:46	12:37:42	00:04:25	-----	303-	42-	93-	71940
A1 (FM05)	12/05/20	12:34:27	12:47:02	00:09:20	-----	271-	39-	58-	75360
C5 (FM25)	12/05/20	12:34:59	12:47:54	00:00:51	-----	216-	46-	66-	71260
B3 (FM15)	12/05/20	12:40:19	12:53:24	00:05:29	-----	303-	47-	98-	71940
A3 (FM07)	12/05/20	12:46:43	12:59:12	00:05:48	-----	275-	36-	59-	75361
B2 (FM14)	12/05/20	12:54:55	13:08:06	00:08:54	-----	303-	53-	103-	71940
G2 (FM04)	12/05/20	12:58:00	13:06:33	00:01:03	-----	92-	13-	8-	74174
A4 (FM08)	12/05/20	13:00:42	13:13:00	00:06:26	-----	280-	33-	59-	75362
C1 (FM21)	12/05/20	13:02:22	13:15:39	00:02:38	-----	228-	67-	62-	71260
B1 (FM13)	12/05/20	13:10:33	13:23:50	00:08:11	-----	303-	60-	108-	71940
A8 (FM12)	12/05/20	13:15:17	13:27:31	00:03:41	-----	284-	32-	62-	75362
C7 (FM27)	12/05/20	13:17:12	13:30:34	00:03:02	-----	234-	82-	60-	71260
C4 (FM24)	12/05/20	13:18:10	13:31:32	00:00:58	-----	233-	80-	61-	71260
B6 (FM18)	12/05/20	13:25:12	13:38:35	00:07:03	-----	301-	77-	116-	71941

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C3 (FM23)	12/05/20	13:27:48	13:41:12	00:02:36	-----	238-	90-	60-	71260
A5 (FM09)	12/05/20	13:29:28	13:41:40	00:00:27	-----	287-	31-	62-	75362
B7 (FM19)	12/05/20	13:38:49	13:52:13	00:10:33	-----	300-	88-	121-	71941
A7 (FM11)	12/05/20	13:41:32	13:53:41	00:01:28	-----	290-	30-	66-	75362
C2 (FM22)	12/05/20	13:52:49	14:06:11	00:12:29	-----	247-	70-	58-	71260
A6 (FM10)	12/05/20	13:53:26	14:05:34	00:00:03	-----	292-	30-	67-	75362
B8 (FM20)	12/05/20	13:55:08	14:08:28	00:02:54	-----	299-	78-	127-	71941
A2 (FM06)	12/05/20	14:07:13	14:19:21	00:10:53	-----	295-	30-	70-	75362
B4 (FM16)	12/05/20	14:10:41	14:23:58	00:04:37	-----	298-	68-	132-	71941
C5 (FM25)	12/05/20	14:20:41	14:33:52	00:09:53	-----	258-	52-	57-	71261
A1 (FM05)	12/05/20	14:21:03	14:33:14	00:00:03	-----	297-	31-	73-	75361
B3 (FM15)	12/05/20	14:26:16	14:39:23	00:06:09	-----	296-	55-	138-	71941
A3 (FM07)	12/05/20	14:33:16	14:45:30	00:06:06	-----	298-	31-	76-	75362
G2 (FM04)	12/05/20	14:33:43	14:46:39	00:01:08	-----	152-	84-	337-	74175
B2 (FM14)	12/05/20	14:40:55	14:53:46	00:07:07	-----	293-	45-	144-	71941
A4 (FM08)	12/05/20	14:47:07	14:59:27	00:05:40	-----	300-	33-	79-	75363
C1 (FM21)	12/05/20	14:48:37	15:01:33	00:02:06	-----	267-	42-	57-	71261
B1 (FM13)	12/05/20	14:56:37	15:09:10	00:07:36	-----	291-	37-	151-	71941
A8 (FM12)	12/05/20	15:01:36	15:14:04	00:04:54	-----	302-	35-	85-	75363
C7 (FM27)	12/05/20	15:03:44	15:16:30	00:02:26	-----	273-	38-	59-	71261
C4 (FM24)	12/05/20	15:04:39	15:17:28	00:00:57	-----	272-	38-	59-	71261
B6 (FM18)	12/05/20	15:11:31	15:23:16	00:05:48	-----	286-	26-	162-	71942
C3 (FM23)	12/05/20	15:14:27	15:27:09	00:03:52	-----	275-	36-	59-	71261
A5 (FM09)	12/05/20	15:15:41	15:28:16	00:01:07	-----	302-	38-	87-	75363
B7 (FM19)	12/05/20	15:25:21	15:36:27	00:08:10	-----	282-	21-	169-	71942
A7 (FM11)	12/05/20	15:27:38	15:40:20	00:03:53	-----	303-	41-	92-	75363
A6 (FM10)	12/05/20	15:39:26	15:52:14	00:11:53	-----	303-	44-	96-	75363
C2 (FM22)	12/05/20	15:39:43	15:52:15	00:00:00	-----	282-	33-	60-	71261
B8 (FM20)	12/05/20	15:41:59	15:52:06	00:00:08	-----	277-	17-	178-	71942
A2 (FM06)	12/05/20	15:53:06	16:06:00	00:12:54	00:01:00	303-	49-	101-	75363
B4 (FM16)	12/05/20	15:57:52	16:07:05	00:01:04	-----	272-	14-	184-	71942
A1 (FM05)	12/05/20	16:06:50	16:19:51	00:12:45	-----	303-	56-	105-	75362
C5 (FM25)	12/05/20	16:07:44	16:20:09	00:00:18	-----	289-	31-	66-	71262
B3 (FM15)	12/05/20	16:14:00	16:21:43	00:01:34	-----	265-	10-	196-	71942
G2 (FM04)	12/05/20	16:15:18	16:23:19	00:01:35	-----	219-	11-	295-	74176
A3 (FM07)	12/05/20	16:18:57	16:32:03	00:08:44	-----	303-	63-	110-	75363
B2 (FM14)	12/05/20	16:29:37	16:34:55	00:02:51	-----	253-	7-	211-	71942
A4 (FM08)	12/05/20	16:32:41	16:45:52	00:10:56	-----	302-	76-	116-	75364
C1 (FM21)	12/05/20	16:35:41	16:48:04	00:02:12	-----	294-	31-	70-	71262
A8 (FM12)	12/05/20	16:47:07	17:00:19	00:12:14	-----	301-	88-	121-	75364
C7 (FM27)	12/05/20	16:50:44	17:03:11	00:02:52	-----	297-	32-	75-	71262
C4 (FM24)	12/05/20	16:51:41	17:04:07	00:00:55	-----	297-	32-	74-	71262
A5 (FM09)	12/05/20	17:01:10	17:14:21	00:10:14	-----	299-	81-	126-	75364
C3 (FM23)	12/05/20	17:01:24	17:13:54	00:00:02	-----	298-	32-	77-	71262
A7 (FM11)	12/05/20	17:13:06	17:26:13	00:12:19	-----	298-	69-	131-	75364
A6 (FM10)	12/05/20	17:24:55	17:37:55	00:11:42	-----	297-	60-	135-	75364
C2 (FM22)	12/05/20	17:26:30	17:39:10	00:01:14	-----	301-	35-	82-	71262
A2 (FM06)	12/05/20	17:38:37	17:51:24	00:12:13	-----	294-	49-	142-	75364
A1 (FM05)	12/05/20	17:52:25	18:04:57	00:12:31	00:01:01	292-	40-	148-	75363
C5 (FM25)	12/05/20	17:54:16	18:07:13	00:02:15	-----	303-	42-	93-	71263

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A3 (FM07)	12/05/20	18:04:38	18:16:50	00:09:37	-----	290-	34-	153-	75364
A4 (FM08)	12/05/20	18:18:34	18:30:08	00:11:34	00:01:43	286-	26-	163-	75365
C1 (FM21)	12/05/20	18:21:58	18:35:08	00:04:59	-----	303-	51-	101-	71263
A8 (FM12)	12/05/20	18:33:12	18:44:08	00:09:00	-----	282-	21-	168-	75365
C7 (FM27)	12/05/20	18:36:55	18:50:12	00:06:03	-----	303-	60-	108-	71263
C4 (FM24)	12/05/20	18:37:51	18:51:08	00:00:55	-----	303-	59-	107-	71263
C3 (FM23)	12/05/20	18:47:30	19:00:50	00:09:42	-----	302-	66-	111-	71263
A5 (FM09)	12/05/20	18:47:31	18:57:43	00:03:07	-----	278-	17-	176-	75365
A7 (FM11)	12/05/20	18:59:48	19:09:01	00:09:12	00:02:05	273-	14-	183-	75365
A6 (FM10)	12/05/20	19:11:59	19:20:10	00:08:11	00:02:57	268-	11-	190-	75365
C2 (FM22)	12/05/20	19:12:29	19:25:53	00:05:42	-----	301-	84-	120-	71263
A2 (FM06)	12/05/20	19:26:27	19:32:41	00:06:14	00:00:33	258-	8-	205-	75365
C5 (FM25)	12/05/20	19:40:11	19:53:29	00:13:17	00:07:30	298-	68-	132-	71264
C1 (FM21)	12/05/20	20:07:56	20:20:51	00:12:54	00:14:27	294-	47-	144-	71264
C7 (FM27)	12/05/20	20:23:00	20:35:32	00:12:33	00:02:08	291-	37-	150-	71264
C4 (FM24)	12/05/20	20:23:54	20:36:31	00:00:58	-----	291-	38-	149-	71264
C3 (FM23)	12/05/20	20:33:39	20:45:56	00:09:24	-----	289-	32-	154-	71264
C2 (FM22)	12/05/20	20:58:55	21:10:14	00:11:18	00:13:00	284-	23-	167-	71264
C5 (FM25)	12/05/20	21:27:20	21:36:36	00:09:15	00:17:05	273-	14-	184-	71265
C1 (FM21)	12/05/20	21:56:25	22:02:18	00:05:53	00:19:48	259-	8-	205-	71265
D3 (FM31)	12/05/20	21:59:33	22:08:02	00:05:43	-----	171-	12-	90-	65011
D2 (FM30)	12/05/20	22:20:43	22:30:08	00:09:24	00:12:41	177-	14-	85-	65011
D6 (FM34)	12/05/20	22:41:53	22:52:16	00:10:23	00:11:45	185-	18-	80-	65012
D7 (FM35)	12/05/20	23:01:04	23:12:28	00:11:24	00:08:47	194-	23-	75-	65012
D8 (FM36)	12/05/20	23:21:01	23:33:26	00:12:24	00:08:32	205-	34-	70-	65012
D3 (FM31)	12/05/20	23:42:17	23:55:29	00:13:11	00:08:51	225-	61-	63-	65012
D2 (FM30)	12/05/21	00:03:57	00:17:14	00:13:17	00:08:28	229-	69-	62-	65012
D6 (FM34)	12/05/21	00:25:40	00:39:02	00:13:22	00:08:25	234-	81-	60-	65013
D7 (FM35)	12/05/21	00:45:30	00:58:54	00:13:23	00:06:27	241-	83-	59-	65013
D8 (FM36)	12/05/21	01:06:12	01:19:32	00:13:20	00:07:17	250-	63-	57-	65013
D3 (FM31)	12/05/21	01:28:25	01:41:24	00:12:59	00:08:52	265-	44-	58-	65013
D2 (FM30)	12/05/21	01:50:15	02:03:09	00:12:54	00:08:51	268-	41-	58-	65013
D6 (FM34)	12/05/21	02:12:11	02:24:58	00:12:47	00:09:01	272-	38-	59-	65014
D7 (FM35)	12/05/21	02:32:15	02:44:53	00:12:38	00:07:16	278-	35-	60-	65014
D8 (FM36)	12/05/21	02:53:10	03:05:40	00:12:30	00:08:16	284-	32-	61-	65014
G2 (FM04)	12/05/21	02:54:18	03:02:05	00:03:03	-----	60-	11-	142-	74182
D3 (FM31)	12/05/21	03:15:30	03:27:52	00:12:21	00:13:24	293-	31-	70-	65014
D2 (FM30)	12/05/21	03:37:20	03:49:43	00:12:23	00:09:27	295-	31-	72-	65014
D6 (FM34)	12/05/21	03:59:12	04:11:39	00:12:26	00:09:29	297-	32-	75-	65015
D7 (FM35)	12/05/21	04:19:10	04:31:42	00:12:31	00:07:31	299-	33-	79-	65015
G2 (FM04)	12/05/21	04:30:57	04:43:39	00:11:56	-----	23-	83-	209-	74183
D8 (FM36)	12/05/21	04:39:54	04:52:40	00:09:00	-----	301-	37-	85-	65015
D3 (FM31)	12/05/21	05:01:52	05:14:57	00:13:05	00:09:11	303-	48-	99-	65015
B3 (FM15)	12/05/21	05:07:21	05:13:55	00:01:02	-----	160-	9-	101-	71950
B2 (FM14)	12/05/21	05:20:47	05:29:18	00:08:30	00:06:51	171-	12-	90-	71950
D2 (FM30)	12/05/21	05:23:36	05:36:47	00:07:29	-----	303-	53-	103-	65015
B1 (FM13)	12/05/21	05:35:37	05:45:26	00:08:38	-----	180-	15-	83-	71950
D6 (FM34)	12/05/21	05:45:23	05:58:40	00:13:14	-----	303-	59-	107-	65016
B6 (FM18)	12/05/21	05:49:18	06:00:36	00:01:55	-----	193-	23-	75-	71951
B7 (FM19)	12/05/21	06:02:33	06:14:25	00:11:51	00:01:57	197-	27-	72-	71951

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D7 (FM35)	12/05/21	06:05:14	06:18:36	00:04:11	-----	302-	71-	114-	65016
G2 (FM04)	12/05/21	06:11:07	06:19:19	00:00:43	-----	353-	12-	273-	74184
B8 (FM20)	12/05/21	06:18:29	06:30:51	00:11:31	-----	205-	34-	69-	71951
D8 (FM36)	12/05/21	06:25:51	06:39:17	00:08:25	-----	300-	88-	123-	65016
B4 (FM16)	12/05/21	06:33:49	06:46:30	00:07:12	-----	211-	40-	67-	71951
D3 (FM31)	12/05/21	06:47:48	07:00:51	00:13:02	00:01:18	295-	52-	140-	65016
B3 (FM15)	12/05/21	06:49:05	07:02:06	00:01:15	-----	218-	49-	65-	71951
B2 (FM14)	12/05/21	07:03:32	07:16:45	00:13:12	00:01:25	225-	61-	63-	71951
D2 (FM30)	12/05/21	07:09:35	07:22:28	00:05:42	-----	294-	45-	144-	65016
B1 (FM13)	12/05/21	07:19:03	07:32:24	00:09:56	-----	231-	73-	61-	71951
D6 (FM34)	12/05/21	07:31:26	07:44:02	00:11:37	-----	291-	37-	150-	65017
B6 (FM18)	12/05/21	07:33:39	07:47:04	00:03:02	-----	240-	85-	59-	71952
B7 (FM19)	12/05/21	07:47:18	08:00:42	00:13:23	00:00:13	245-	74-	59-	71952
D7 (FM35)	12/05/21	07:51:28	08:03:30	00:02:48	-----	287-	29-	158-	65017
B8 (FM20)	12/05/21	08:03:40	08:16:58	00:13:17	00:00:10	251-	63-	58-	71952
D8 (FM36)	12/05/21	08:12:28	08:23:18	00:06:20	-----	281-	20-	172-	65017
A2 (FM06)	12/05/21	08:15:47	08:22:42	00:00:03	-----	162-	9-	99-	75373
B4 (FM16)	12/05/21	08:19:17	08:32:32	00:09:49	-----	255-	57-	58-	71952
A1 (FM05)	12/05/21	08:28:35	08:37:04	00:04:32	-----	172-	12-	90-	75372
B3 (FM15)	12/05/21	08:34:55	08:48:04	00:10:59	-----	260-	50-	57-	71952
D3 (FM31)	12/05/21	08:35:49	08:42:50	00:05:01	-----	261-	9-	201-	65017
A3 (FM07)	12/05/21	08:40:04	08:49:38	00:06:48	-----	180-	15-	84-	75373
B2 (FM14)	12/05/21	08:49:40	09:02:40	00:13:00	00:00:01	265-	44-	58-	71952
A4 (FM08)	12/05/21	08:53:05	09:03:46	00:01:05	-----	190-	20-	80-	75374
D2 (FM30)	12/05/21	08:58:16	09:03:39	00:00:07	-----	253-	7-	211-	65017
B1 (FM13)	12/05/21	09:05:26	09:18:20	00:12:53	00:01:47	270-	40-	58-	71952
A8 (FM12)	12/05/21	09:07:01	09:18:26	00:00:05	-----	197-	25-	73-	75374
B6 (FM18)	12/05/21	09:20:22	09:33:03	00:12:41	00:01:55	277-	36-	60-	71953
A5 (FM09)	12/05/21	09:20:45	09:32:39	00:00:02	-----	202-	30-	72-	75374
A7 (FM11)	12/05/21	09:32:24	09:44:40	00:12:01	-----	208-	36-	68-	75374
B7 (FM19)	12/05/21	09:34:09	09:46:44	00:02:03	-----	281-	34-	61-	71953
A6 (FM10)	12/05/21	09:44:00	09:56:31	00:09:46	-----	213-	42-	66-	75374
B8 (FM20)	12/05/21	09:50:39	10:03:06	00:06:35	-----	285-	32-	63-	71953
A2 (FM06)	12/05/21	09:57:26	10:10:15	00:07:08	-----	220-	52-	64-	75374
B4 (FM16)	12/05/21	10:06:19	10:18:45	00:08:30	-----	287-	31-	64-	71953
A1 (FM05)	12/05/21	10:11:02	10:24:02	00:05:16	-----	226-	63-	63-	75373
B3 (FM15)	12/05/21	10:22:00	10:34:24	00:10:22	-----	291-	31-	67-	71953
A3 (FM07)	12/05/21	10:23:06	10:36:11	00:01:47	-----	231-	74-	61-	75374
B2 (FM14)	12/05/21	10:36:45	10:49:08	00:12:22	00:00:34	293-	31-	70-	71953
A4 (FM08)	12/05/21	10:36:48	10:49:54	00:00:45	-----	238-	89-	60-	75375
C1 (FM21)	12/05/21	10:47:56	10:56:08	00:06:13	-----	169-	11-	92-	71273
A8 (FM12)	12/05/21	10:51:13	11:04:21	00:08:12	-----	243-	77-	59-	75375
B1 (FM13)	12/05/21	10:52:30	11:04:55	00:00:34	-----	296-	31-	73-	71953
C7 (FM27)	12/05/21	11:02:02	11:11:48	00:06:52	-----	180-	15-	83-	71273
C4 (FM24)	12/05/21	11:03:01	11:12:35	00:00:47	-----	178-	15-	84-	71273
A5 (FM09)	12/05/21	11:05:18	11:18:25	00:05:49	-----	248-	68-	58-	75375
B6 (FM18)	12/05/21	11:07:18	11:19:51	00:01:26	-----	299-	33-	79-	71954
C3 (FM23)	12/05/21	11:12:06	11:22:30	00:02:39	-----	185-	18-	80-	71273
A7 (FM11)	12/05/21	11:17:18	11:30:19	00:07:49	-----	253-	59-	58-	75375
B7 (FM19)	12/05/21	11:21:00	11:33:37	00:03:18	-----	300-	34-	82-	71954

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A6 (FM10)	12/05/21	11:29:09	11:42:06	00:08:28	-----	257-	54-	57-	75375
C2 (FM22)	12/05/21	11:36:15	11:47:55	00:05:49	-----	195-	26-	75-	71273
B8 (FM20)	12/05/21	11:37:22	11:50:05	00:02:10	-----	302-	37-	86-	71954
A2 (FM06)	12/05/21	11:42:55	11:55:45	00:05:39	-----	262-	47-	57-	75375
B4 (FM16)	12/05/21	11:52:57	12:05:47	00:10:02	-----	302-	39-	90-	71954
A1 (FM05)	12/05/21	11:56:47	12:09:31	00:03:43	-----	266-	43-	57-	75374
C5 (FM25)	12/05/21	12:03:13	12:15:54	00:06:23	-----	211-	40-	67-	71274
B3 (FM15)	12/05/21	12:08:29	12:21:29	00:05:34	-----	303-	43-	95-	71954
A3 (FM07)	12/05/21	12:09:04	12:21:41	00:00:11	-----	270-	39-	58-	75375
A4 (FM08)	12/05/21	12:23:01	12:35:26	00:12:24	00:01:20	275-	35-	58-	75376
B2 (FM14)	12/05/21	12:23:07	12:36:13	00:00:47	-----	303-	49-	100-	71954
C1 (FM21)	12/05/21	12:30:30	12:43:41	00:07:27	-----	224-	59-	64-	71274
G2 (FM04)	12/05/21	12:35:03	12:39:35	00:04:05	-----	67-	7-	22-	74188
A8 (FM12)	12/05/21	12:37:35	12:49:56	00:10:20	-----	280-	33-	60-	75376
B1 (FM13)	12/05/21	12:38:44	12:51:58	00:02:02	-----	303-	55-	104-	71954
C7 (FM27)	12/05/21	12:45:28	12:58:47	00:06:48	-----	231-	73-	61-	71274
C4 (FM24)	12/05/21	12:46:20	12:59:38	00:00:50	-----	230-	71-	62-	71274
A5 (FM09)	12/05/21	12:51:47	13:04:04	00:04:25	-----	283-	32-	60-	75376
B6 (FM18)	12/05/21	12:53:23	13:06:45	00:02:41	-----	302-	69-	113-	71955
C3 (FM23)	12/05/21	12:55:53	13:09:15	00:02:30	-----	234-	81-	61-	71274
A7 (FM11)	12/05/21	13:03:52	13:16:04	00:06:48	-----	286-	31-	63-	75376
B7 (FM19)	12/05/21	13:07:01	13:20:24	00:04:20	-----	301-	80-	118-	71955
A6 (FM10)	12/05/21	13:15:46	13:27:55	00:07:30	-----	289-	30-	65-	75376
C2 (FM22)	12/05/21	13:20:51	13:34:14	00:06:19	-----	243-	77-	58-	71274
B8 (FM20)	12/05/21	13:23:19	13:36:41	00:02:26	-----	300-	87-	124-	71955
A2 (FM06)	12/05/21	13:29:34	13:41:41	00:05:00	-----	292-	30-	67-	75376
B4 (FM16)	12/05/21	13:38:52	13:52:13	00:10:32	-----	299-	76-	128-	71955
A1 (FM05)	12/05/21	13:43:26	13:55:34	00:03:20	-----	294-	30-	70-	75375
C5 (FM25)	12/05/21	13:48:40	14:01:56	00:06:22	-----	255-	57-	58-	71275
B3 (FM15)	12/05/21	13:54:25	14:07:39	00:05:43	-----	297-	63-	134-	71955
A3 (FM07)	12/05/21	13:55:41	14:07:50	00:00:10	-----	296-	30-	72-	75376
G2 (FM04)	12/05/21	14:08:34	14:21:02	00:12:28	00:00:43	135-	46-	346-	74189
B2 (FM14)	12/05/21	14:09:04	14:22:06	00:01:03	-----	295-	51-	140-	71955
A4 (FM08)	12/05/21	14:09:32	14:21:45	00:00:02	-----	299-	32-	75-	75377
C1 (FM21)	12/05/21	14:16:34	14:29:36	00:07:50	-----	264-	45-	57-	71275
A8 (FM12)	12/05/21	14:24:01	14:36:22	00:06:45	-----	300-	33-	80-	75377
B1 (FM13)	12/05/21	14:24:45	14:37:32	00:01:10	-----	293-	42-	146-	71955
C7 (FM27)	12/05/21	14:31:51	14:44:43	00:07:10	-----	270-	40-	58-	71275
C4 (FM24)	12/05/21	14:32:39	14:45:33	00:00:50	-----	269-	41-	58-	71275
A5 (FM09)	12/05/21	14:38:08	14:50:35	00:05:02	-----	301-	35-	82-	75377
B6 (FM18)	12/05/21	14:39:36	14:51:42	00:01:06	-----	288-	30-	157-	71956
C3 (FM23)	12/05/21	14:42:23	14:55:11	00:03:28	-----	272-	38-	59-	71275
A7 (FM11)	12/05/21	14:50:06	15:02:39	00:07:28	-----	302-	37-	88-	75377
B7 (FM19)	12/05/21	14:53:23	15:04:58	00:02:18	-----	285-	25-	164-	71956
A6 (FM10)	12/05/21	15:01:54	15:14:33	00:09:34	-----	303-	40-	91-	75377
C2 (FM22)	12/05/21	15:07:39	15:20:15	00:05:41	-----	279-	34-	59-	71275
B8 (FM20)	12/05/21	15:09:57	15:20:42	00:00:27	-----	280-	19-	173-	71956
A2 (FM06)	12/05/21	15:15:35	15:28:20	00:07:38	-----	303-	44-	95-	75377
B4 (FM16)	12/05/21	15:25:46	15:35:47	00:07:26	-----	276-	16-	178-	71956
A1 (FM05)	12/05/21	15:29:20	15:42:13	00:06:25	-----	303-	49-	100-	75376

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C5 (FM25)	12/05/21	15:35:42	15:48:08	00:05:54	-----	287-	31-	64-	71276
A3 (FM07)	12/05/21	15:41:29	15:54:28	00:06:20	-----	303-	54-	104-	75377
B3 (FM15)	12/05/21	15:41:45	15:50:33	00:03:05	-----	270-	13-	188-	71956
G2 (FM04)	12/05/21	15:48:04	15:59:06	00:08:32	-----	195-	23-	312-	74190
A4 (FM08)	12/05/21	15:55:12	16:08:18	00:09:12	-----	302-	64-	110-	75378
B2 (FM14)	12/05/21	15:57:06	16:04:03	00:04:01	-----	261-	9-	201-	71956
C1 (FM21)	12/05/21	16:03:39	16:16:02	00:11:58	-----	293-	31-	68-	71276
A8 (FM12)	12/05/21	16:09:36	16:22:47	00:06:45	-----	302-	75-	116-	75378
B1 (FM13)	12/05/21	16:13:54	16:18:10	00:04:03	-----	248-	6-	217-	71956
C7 (FM27)	12/05/21	16:18:54	16:31:19	00:12:24	00:00:43	296-	31-	73-	71276
C4 (FM24)	12/05/21	16:19:43	16:32:07	00:00:48	-----	296-	31-	72-	71276
A5 (FM09)	12/05/21	16:23:40	16:36:53	00:04:45	-----	301-	85-	120-	75378
C3 (FM23)	12/05/21	16:29:24	16:41:50	00:04:57	-----	297-	32-	75-	71276
A7 (FM11)	12/05/21	16:35:35	16:48:47	00:06:56	-----	300-	83-	125-	75378
A6 (FM10)	12/05/21	16:47:23	17:00:31	00:11:44	-----	299-	73-	129-	75378
C2 (FM22)	12/05/21	16:54:31	17:07:07	00:06:35	-----	300-	34-	79-	71276
A2 (FM06)	12/05/21	17:01:04	17:14:03	00:06:56	-----	297-	60-	135-	75378
A1 (FM05)	12/05/21	17:14:51	17:27:39	00:12:48	00:00:48	295-	50-	141-	75377
C5 (FM25)	12/05/21	17:22:19	17:35:10	00:07:30	-----	302-	39-	90-	71277
A3 (FM07)	12/05/21	17:27:03	17:39:38	00:04:28	-----	293-	42-	146-	75378
A4 (FM08)	12/05/21	17:40:53	17:53:01	00:12:07	00:01:15	289-	33-	155-	75379
C1 (FM21)	12/05/21	17:50:02	18:03:06	00:10:05	-----	303-	47-	98-	71277
A8 (FM12)	12/05/21	17:55:28	18:07:06	00:04:00	-----	286-	27-	160-	75379
C7 (FM27)	12/05/21	18:05:08	18:18:22	00:11:15	-----	303-	55-	104-	71277
C4 (FM24)	12/05/21	18:05:58	18:19:10	00:00:48	-----	303-	54-	104-	71277
A5 (FM09)	12/05/21	18:09:43	18:20:46	00:01:36	-----	283-	22-	167-	75379
C3 (FM23)	12/05/21	18:15:34	18:28:51	00:08:04	-----	303-	60-	107-	71277
A7 (FM11)	12/05/21	18:21:53	18:32:15	00:03:24	-----	278-	18-	174-	75379
A6 (FM10)	12/05/21	18:33:56	18:43:33	00:09:37	00:01:40	275-	15-	180-	75379
C2 (FM22)	12/05/21	18:40:32	18:53:56	00:10:22	-----	301-	76-	116-	71277
A2 (FM06)	12/05/21	18:48:06	18:56:21	00:02:24	-----	268-	12-	191-	75379
A1 (FM05)	12/05/21	19:02:33	19:09:06	00:06:33	00:06:12	259-	9-	203-	75378
C5 (FM25)	12/05/21	19:08:14	19:21:36	00:12:29	-----	299-	77-	128-	71278
A3 (FM07)	12/05/21	19:15:44	19:19:54	00:01:04	-----	248-	6-	216-	75379
C1 (FM21)	12/05/21	19:35:57	19:49:02	00:13:04	00:16:03	296-	54-	140-	71278
C7 (FM27)	12/05/21	19:51:09	20:03:56	00:12:47	00:02:06	293-	42-	146-	71278
C4 (FM24)	12/05/21	19:51:57	20:04:48	00:00:51	-----	293-	44-	145-	71278
C3 (FM23)	12/05/21	20:01:37	20:14:11	00:09:23	-----	291-	37-	150-	71278
C2 (FM22)	12/05/21	20:26:50	20:38:36	00:11:45	00:12:38	286-	26-	162-	71278
C5 (FM25)	12/05/21	20:55:06	21:05:10	00:10:04	00:16:30	277-	16-	178-	71279
C1 (FM21)	12/05/21	21:23:49	21:31:12	00:07:23	00:18:38	265-	10-	196-	71279
D3 (FM31)	12/05/21	21:28:27	21:35:47	00:04:35	-----	164-	10-	97-	65025
C7 (FM27)	12/05/21	21:40:18	21:44:34	00:04:16	00:04:30	248-	6-	216-	71279
C4 (FM24)	12/05/21	21:40:49	21:45:44	00:01:09	-----	251-	7-	213-	71279
D2 (FM30)	12/05/21	21:49:30	21:58:00	00:08:29	00:03:45	171-	12-	90-	65025
D6 (FM34)	12/05/21	22:10:33	22:20:15	00:09:41	00:12:33	179-	15-	84-	65026
D7 (FM35)	12/05/21	22:29:37	22:40:31	00:10:54	00:09:22	189-	20-	77-	65026
D8 (FM36)	12/05/21	22:49:28	23:01:31	00:12:03	00:08:56	200-	30-	72-	65026
D3 (FM31)	12/05/21	23:10:36	23:23:41	00:13:04	00:09:05	221-	53-	64-	65026
D2 (FM30)	12/05/21	23:32:15	23:45:27	00:13:12	00:08:34	225-	61-	63-	65026

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D6 (FM34)	12/05/21	23:53:56	00:07:15	00:13:18	00:08:29	230-	72-	61-	65027
D7 (FM35)	12/05/22	00:13:43	00:27:07	00:13:23	00:06:27	237-	89-	60-	65027
D8 (FM36)	12/05/22	00:34:22	00:47:45	00:13:23	00:07:15	247-	70-	58-	65027
D3 (FM31)	12/05/22	00:56:33	01:09:37	00:13:04	00:08:47	262-	47-	57-	65027
D2 (FM30)	12/05/22	01:18:23	01:31:22	00:12:59	00:08:45	265-	44-	58-	65027
D6 (FM34)	12/05/22	01:40:18	01:53:10	00:12:52	00:08:56	269-	40-	58-	65028
D7 (FM35)	12/05/22	02:00:21	02:13:04	00:12:42	00:07:10	275-	36-	59-	65028
D8 (FM36)	12/05/22	02:21:16	02:33:50	00:12:33	00:08:12	282-	33-	60-	65028
D3 (FM31)	12/05/22	02:43:38	02:56:00	00:12:21	00:09:48	292-	31-	68-	65028
D2 (FM30)	12/05/22	03:05:28	03:17:50	00:12:22	00:09:28	294-	31-	70-	65028
D6 (FM34)	12/05/22	03:27:22	03:39:46	00:12:24	00:09:31	296-	31-	72-	65029
D7 (FM35)	12/05/22	03:47:20	03:59:48	00:12:28	00:07:34	298-	32-	77-	65029
G2 (FM04)	12/05/22	04:05:36	04:18:02	00:12:25	00:05:47	31-	53-	190-	74197
D8 (FM36)	12/05/22	04:08:05	04:20:46	00:02:44	-----	301-	35-	82-	65029
D3 (FM31)	12/05/22	04:30:05	04:43:05	00:13:00	00:09:18	303-	45-	96-	65029
B3 (FM15)	12/05/22	04:36:37	04:41:14	00:01:05	-----	146-	7-	105-	71964
B2 (FM14)	12/05/22	04:49:39	04:57:03	00:07:23	00:08:25	164-	10-	97-	71964
D2 (FM30)	12/05/22	04:51:49	05:04:55	00:07:52	-----	303-	48-	99-	65029
B1 (FM13)	12/05/22	05:04:20	05:13:20	00:08:24	-----	174-	13-	88-	71964
D6 (FM34)	12/05/22	05:13:36	05:26:50	00:13:13	00:00:16	303-	54-	104-	65030
B6 (FM18)	12/05/22	05:17:51	05:28:37	00:01:47	-----	188-	19-	78-	71965
B7 (FM19)	12/05/22	05:31:01	05:42:28	00:11:27	00:02:24	195-	24-	75-	71965
D7 (FM35)	12/05/22	05:33:27	05:46:46	00:04:18	-----	302-	64-	110-	65030
G2 (FM04)	12/05/22	05:44:53	05:55:22	00:08:36	-----	3-	21-	252-	74198
B8 (FM20)	12/05/22	05:46:54	05:58:57	00:03:34	-----	201-	30-	71-	71965
D8 (FM36)	12/05/22	05:54:04	06:07:30	00:08:32	-----	301-	84-	120-	65030
B4 (FM16)	12/05/22	06:02:11	06:14:37	00:07:07	-----	206-	35-	69-	71965
D3 (FM31)	12/05/22	06:16:00	06:29:10	00:13:10	00:01:22	297-	59-	136-	65030
B3 (FM15)	12/05/22	06:17:24	06:30:14	00:01:03	-----	214-	43-	66-	71965
B2 (FM14)	12/05/22	06:31:50	06:44:55	00:13:05	00:01:35	221-	53-	64-	71965
D2 (FM30)	12/05/22	06:37:46	06:50:49	00:05:53	-----	295-	52-	140-	65030
B1 (FM13)	12/05/22	06:47:19	07:00:35	00:09:46	-----	227-	65-	62-	71965
D6 (FM34)	12/05/22	06:59:36	07:12:26	00:11:50	-----	293-	43-	146-	65031
B6 (FM18)	12/05/22	07:01:51	07:15:16	00:02:49	-----	236-	86-	60-	71966
B7 (FM19)	12/05/22	07:15:28	07:28:53	00:13:24	00:00:12	241-	82-	59-	71966
D7 (FM35)	12/05/22	07:19:35	07:31:57	00:03:03	-----	290-	33-	154-	65031
B8 (FM20)	12/05/22	07:31:49	07:45:10	00:13:12	-----	247-	70-	58-	71966
D8 (FM36)	12/05/22	07:40:31	07:51:53	00:06:43	-----	284-	23-	167-	65031
B4 (FM16)	12/05/22	07:47:25	08:00:44	00:08:50	-----	251-	62-	58-	71966
A1 (FM05)	12/05/22	07:52:12	07:58:50	00:01:05	-----	161-	9-	100-	75386
B3 (FM15)	12/05/22	08:03:01	08:16:14	00:13:13	00:04:11	257-	54-	58-	71966
A3 (FM07)	12/05/22	08:03:27	08:11:37	00:04:03	-----	170-	11-	92-	75387
D3 (FM31)	12/05/22	08:03:33	08:11:47	00:00:09	-----	267-	11-	193-	65031
A4 (FM08)	12/05/22	08:16:13	08:25:54	00:09:41	00:04:25	181-	16-	86-	75388
B2 (FM14)	12/05/22	08:17:46	08:30:52	00:04:57	-----	262-	48-	58-	71966
D2 (FM30)	12/05/22	08:25:47	08:32:48	00:01:56	-----	261-	9-	201-	65031
A8 (FM12)	12/05/22	08:30:01	08:40:40	00:07:51	-----	189-	20-	78-	75388
B1 (FM13)	12/05/22	08:33:32	08:46:31	00:05:51	-----	267-	43-	58-	71966
A5 (FM09)	12/05/22	08:43:41	08:54:57	00:08:26	-----	193-	24-	76-	75388
B6 (FM18)	12/05/22	08:48:26	09:01:13	00:06:15	-----	274-	37-	59-	71967

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D6 (FM34)	12/05/22	08:48:36	08:53:15	00:07:05	-----	250-	7-	214-	65032
A7 (FM11)	12/05/22	08:55:15	09:07:02	00:11:46	00:02:00	200-	29-	71-	75388
B7 (FM19)	12/05/22	09:02:13	09:14:53	00:07:51	-----	278-	35-	60-	71967
A6 (FM10)	12/05/22	09:06:47	09:18:54	00:04:01	-----	205-	34-	69-	75388
B8 (FM20)	12/05/22	09:18:44	09:31:14	00:12:20	-----	282-	33-	62-	71967
A2 (FM06)	12/05/22	09:20:08	09:32:39	00:01:25	-----	213-	42-	66-	75388
A1 (FM05)	12/05/22	09:33:41	09:46:29	00:12:47	00:01:02	219-	51-	65-	75387
B4 (FM16)	12/05/22	09:34:24	09:46:52	00:00:23	-----	285-	32-	63-	71967
A3 (FM07)	12/05/22	09:45:44	09:58:41	00:11:48	-----	225-	60-	63-	75388
B3 (FM15)	12/05/22	09:50:04	10:02:30	00:03:49	-----	288-	31-	65-	71967
A4 (FM08)	12/05/22	09:59:21	10:12:23	00:09:53	-----	232-	76-	61-	75389
B2 (FM14)	12/05/22	10:04:52	10:17:14	00:04:51	-----	292-	31-	68-	71967
A8 (FM12)	12/05/22	10:13:42	10:26:50	00:09:35	-----	237-	89-	60-	75389
C1 (FM21)	12/05/22	10:16:45	10:23:40	00:03:09	-----	162-	9-	97-	71287
B1 (FM13)	12/05/22	10:20:37	10:33:01	00:09:20	-----	294-	31-	71-	71967
A5 (FM09)	12/05/22	10:27:46	10:40:55	00:07:53	-----	242-	80-	59-	75389
C7 (FM27)	12/05/22	10:30:46	10:39:44	00:01:01	-----	174-	13-	88-	71287
C4 (FM24)	12/05/22	10:31:40	10:40:21	00:00:37	-----	172-	12-	89-	71287
B6 (FM18)	12/05/22	10:35:26	10:47:55	00:07:34	-----	298-	32-	76-	71968
A7 (FM11)	12/05/22	10:39:44	10:52:49	00:04:53	-----	247-	69-	58-	75389
C3 (FM23)	12/05/22	10:40:37	10:50:18	00:02:03	-----	179-	15-	84-	71287
B7 (FM19)	12/05/22	10:49:09	11:01:42	00:11:23	-----	299-	33-	79-	71968
A6 (FM10)	12/05/22	10:51:33	11:04:36	00:02:53	-----	251-	62-	58-	75389
C2 (FM22)	12/05/22	11:04:36	11:15:50	00:11:13	-----	193-	22-	78-	71287
A2 (FM06)	12/05/22	11:05:17	11:18:14	00:02:24	-----	256-	54-	57-	75389
B8 (FM20)	12/05/22	11:05:32	11:18:10	00:00:04	-----	301-	35-	84-	71968
A1 (FM05)	12/05/22	11:19:08	11:32:00	00:12:51	00:00:58	261-	48-	57-	75388
B4 (FM16)	12/05/22	11:21:07	11:33:52	00:01:52	-----	302-	37-	87-	71968
A3 (FM07)	12/05/22	11:31:25	11:44:10	00:10:17	-----	265-	44-	57-	75389
C5 (FM25)	12/05/22	11:31:28	11:43:53	00:00:01	-----	206-	35-	69-	71288
B3 (FM15)	12/05/22	11:36:39	11:49:33	00:05:40	-----	302-	41-	91-	71968
A4 (FM08)	12/05/22	11:45:20	11:57:52	00:08:19	-----	271-	39-	57-	75390
B2 (FM14)	12/05/22	11:51:18	12:04:20	00:06:27	-----	303-	45-	96-	71968
C1 (FM21)	12/05/22	11:58:40	12:11:43	00:07:22	-----	219-	51-	65-	71288
A8 (FM12)	12/05/22	11:59:54	12:12:21	00:00:38	-----	275-	36-	59-	75390
B1 (FM13)	12/05/22	12:06:56	12:20:06	00:07:44	-----	303-	51-	101-	71968
C7 (FM27)	12/05/22	12:13:45	12:27:00	00:06:54	-----	227-	65-	62-	71288
A5 (FM09)	12/05/22	12:14:07	12:26:29	00:00:03	-----	279-	34-	59-	75390
C4 (FM24)	12/05/22	12:14:30	12:27:44	00:01:14	-----	226-	63-	63-	71288
B6 (FM18)	12/05/22	12:21:35	12:34:54	00:07:10	-----	302-	63-	109-	71969
C3 (FM23)	12/05/22	12:24:00	12:37:18	00:02:24	-----	230-	72-	61-	71288
A7 (FM11)	12/05/22	12:26:11	12:38:27	00:01:08	-----	283-	32-	61-	75390
B7 (FM19)	12/05/22	12:35:12	12:48:34	00:10:07	-----	302-	72-	114-	71969
A6 (FM10)	12/05/22	12:38:05	12:50:18	00:01:43	-----	285-	31-	63-	75390
C2 (FM22)	12/05/22	12:48:54	13:02:18	00:12:00	-----	240-	86-	59-	71288
B8 (FM20)	12/05/22	12:51:30	13:04:53	00:02:35	-----	301-	85-	120-	71969
A2 (FM06)	12/05/22	12:51:54	13:04:02	00:00:05	-----	288-	30-	64-	75390
A1 (FM05)	12/05/22	13:05:47	13:17:55	00:12:07	00:01:45	291-	30-	67-	75389
B4 (FM16)	12/05/22	13:07:03	13:20:27	00:02:32	-----	300-	85-	124-	71969
C5 (FM25)	12/05/22	13:16:40	13:30:00	00:09:32	-----	251-	62-	58-	71289

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A3 (FM07)	12/05/22	13:18:04	13:30:11	00:00:12	-----	294-	30-	69-	75390
B3 (FM15)	12/05/22	13:22:34	13:35:54	00:05:42	-----	298-	72-	130-	71969
A4 (FM08)	12/05/22	13:31:56	13:44:04	00:08:09	-----	296-	31-	71-	75391
B2 (FM14)	12/05/22	13:37:14	13:50:24	00:06:20	-----	296-	59-	136-	71969
G2 (FM04)	12/05/22	13:43:52	13:55:12	00:04:48	-----	118-	27-	355-	74203
C1 (FM21)	12/05/22	13:44:32	13:57:39	00:02:26	-----	261-	49-	57-	71289
A8 (FM12)	12/05/22	13:46:26	13:58:40	00:01:00	-----	299-	32-	76-	75391
B1 (FM13)	12/05/22	13:52:54	14:05:53	00:07:13	-----	294-	48-	142-	71969
C7 (FM27)	12/05/22	13:59:58	14:12:55	00:07:02	-----	267-	43-	58-	71289
A5 (FM09)	12/05/22	14:00:34	14:12:54	00:00:01	-----	300-	33-	78-	75391
C4 (FM24)	12/05/22	14:00:40	14:13:38	00:00:44	-----	266-	44-	58-	71289
B6 (FM18)	12/05/22	14:07:42	14:20:07	00:06:28	-----	290-	34-	152-	71970
C3 (FM23)	12/05/22	14:10:20	14:23:13	00:03:06	-----	269-	40-	58-	71289
A7 (FM11)	12/05/22	14:12:33	14:24:58	00:01:44	-----	301-	35-	83-	75391
B7 (FM19)	12/05/22	14:21:27	14:33:27	00:08:28	-----	287-	29-	159-	71970
A6 (FM10)	12/05/22	14:24:22	14:36:52	00:03:24	-----	302-	36-	86-	75391
C2 (FM22)	12/05/22	14:35:36	14:48:16	00:11:24	-----	276-	36-	58-	71289
B8 (FM20)	12/05/22	14:37:58	14:49:13	00:00:57	-----	283-	23-	167-	71970
A2 (FM06)	12/05/22	14:38:03	14:50:40	00:01:26	-----	303-	39-	90-	75391
A1 (FM05)	12/05/22	14:51:49	15:04:34	00:12:44	00:01:09	303-	43-	95-	75390
B4 (FM16)	12/05/22	14:53:44	15:04:25	00:00:09	-----	280-	19-	173-	71970
C5 (FM25)	12/05/22	15:03:38	15:16:07	00:11:42	-----	285-	32-	63-	71290
A3 (FM07)	12/05/22	15:04:00	15:16:51	00:00:43	-----	303-	47-	99-	75391
B3 (FM15)	12/05/22	15:09:36	15:19:14	00:02:22	-----	274-	15-	181-	71970
A4 (FM08)	12/05/22	15:17:42	15:30:41	00:11:27	-----	303-	55-	104-	75392
G2 (FM04)	12/05/22	15:21:44	15:34:11	00:03:29	-----	175-	42-	324-	74204
B2 (FM14)	12/05/22	15:24:48	15:32:59	00:01:01	-----	267-	11-	193-	71970
C1 (FM21)	12/05/22	15:31:37	15:44:00	00:11:00	-----	291-	31-	66-	71290
A8 (FM12)	12/05/22	15:32:06	15:45:13	00:01:12	-----	303-	63-	110-	75392
B1 (FM13)	12/05/22	15:41:13	15:47:29	00:02:16	-----	258-	8-	205-	71970
A5 (FM09)	12/05/22	15:46:10	15:59:21	00:11:51	-----	302-	72-	114-	75392
C7 (FM27)	12/05/22	15:47:03	15:59:26	00:00:05	-----	294-	31-	71-	71290
C4 (FM24)	12/05/22	15:47:44	16:00:07	00:00:41	-----	294-	31-	70-	71290
C3 (FM23)	12/05/22	15:57:23	16:09:47	00:09:40	-----	296-	31-	73-	71290
A7 (FM11)	12/05/22	15:58:05	16:11:17	00:01:29	-----	301-	83-	119-	75392
A6 (FM10)	12/05/22	16:09:52	16:23:03	00:11:46	-----	300-	88-	123-	75392
C2 (FM22)	12/05/22	16:22:32	16:35:03	00:12:00	-----	299-	33-	77-	71290
A2 (FM06)	12/05/22	16:23:31	16:36:38	00:01:34	-----	299-	74-	129-	75392
A1 (FM05)	12/05/22	16:37:18	16:50:18	00:13:00	00:00:40	297-	62-	134-	75391
A3 (FM07)	12/05/22	16:49:30	17:02:22	00:12:03	-----	295-	52-	139-	75392
C5 (FM25)	12/05/22	16:50:21	17:03:07	00:00:45	-----	302-	37-	87-	71291
A4 (FM08)	12/05/22	17:03:16	17:15:48	00:12:31	00:00:09	292-	41-	148-	75393
A8 (FM12)	12/05/22	17:17:47	17:29:58	00:12:10	00:01:59	289-	33-	153-	75393
C1 (FM21)	12/05/22	17:18:05	17:31:04	00:01:05	-----	303-	44-	94-	71291
A5 (FM09)	12/05/22	17:32:00	17:43:45	00:11:45	00:00:55	287-	28-	160-	75393
C7 (FM27)	12/05/22	17:33:22	17:46:31	00:02:45	-----	303-	51-	101-	71291
C4 (FM24)	12/05/22	17:34:04	17:47:12	00:00:40	-----	303-	49-	100-	71291
C3 (FM23)	12/05/22	17:43:37	17:56:50	00:09:38	-----	303-	54-	104-	71291
A7 (FM11)	12/05/22	17:44:05	17:55:17	00:01:03	-----	283-	23-	166-	75393
A6 (FM10)	12/05/22	17:56:03	18:06:42	00:10:38	00:00:45	280-	20-	171-	75393

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C2 (FM22)	12/05/22	18:08:36	18:21:57	00:13:21	00:01:54	302-	69-	112-	71291
A2 (FM06)	12/05/22	18:10:03	18:19:41	00:02:01	-----	275-	15-	181-	75393
A1 (FM05)	12/05/22	18:24:16	18:32:43	00:08:26	00:04:35	269-	12-	190-	75392
C5 (FM25)	12/05/22	18:36:17	18:49:41	00:13:24	00:03:33	300-	86-	124-	71292
A3 (FM07)	12/05/22	18:37:01	18:44:02	00:05:03	-----	262-	9-	199-	75393
A4 (FM08)	12/05/22	18:52:19	18:55:43	00:03:23	00:08:17	249-	6-	217-	75394
C1 (FM21)	12/05/22	19:04:00	19:17:11	00:13:12	00:08:16	297-	61-	135-	71292
C7 (FM27)	12/05/22	19:19:20	19:32:18	00:12:58	00:02:08	294-	48-	142-	71292
C4 (FM24)	12/05/22	19:20:01	19:33:02	00:00:43	-----	295-	50-	141-	71292
C3 (FM23)	12/05/22	19:29:37	19:42:25	00:09:22	-----	293-	43-	146-	71292
C2 (FM22)	12/05/22	19:54:47	20:06:55	00:12:08	00:12:21	288-	30-	158-	71292
C5 (FM25)	12/05/22	20:22:56	20:33:40	00:10:43	00:16:00	280-	19-	172-	71293
C1 (FM21)	12/05/22	20:51:25	20:59:56	00:08:31	00:17:44	270-	12-	189-	71293
D3 (FM31)	12/05/22	20:57:34	21:03:23	00:03:27	-----	156-	8-	105-	65039
C7 (FM27)	12/05/22	21:07:39	21:13:55	00:06:16	00:04:15	258-	8-	204-	71293
C4 (FM24)	12/05/22	21:08:09	21:14:52	00:00:56	-----	260-	9-	202-	71293
D2 (FM30)	12/05/22	21:18:24	21:25:46	00:07:21	00:03:32	164-	10-	97-	65039
C3 (FM23)	12/05/22	21:18:37	21:23:12	00:02:03	-----	250-	7-	215-	71293
D6 (FM34)	12/05/22	21:39:19	21:48:09	00:08:50	00:16:06	173-	13-	89-	65040
D7 (FM35)	12/05/22	21:58:14	22:08:32	00:10:18	00:10:04	184-	17-	81-	65040
D8 (FM36)	12/05/22	22:17:57	22:29:38	00:11:40	00:09:25	195-	26-	75-	65040
D3 (FM31)	12/05/22	22:38:57	22:51:52	00:12:54	00:09:19	217-	47-	66-	65040
D2 (FM30)	12/05/22	23:00:34	23:13:38	00:13:04	00:08:41	221-	53-	64-	65040
D6 (FM34)	12/05/22	23:22:14	23:35:28	00:13:14	00:08:35	226-	64-	62-	65041
D7 (FM35)	12/05/22	23:41:57	23:55:19	00:13:22	00:06:29	233-	80-	61-	65041
D8 (FM36)	12/05/23	00:02:33	00:15:58	00:13:24	00:07:13	243-	77-	58-	65041
D3 (FM31)	12/05/23	00:24:41	00:37:50	00:13:09	00:08:42	259-	51-	57-	65041
D2 (FM30)	12/05/23	00:46:30	00:59:35	00:13:04	00:08:40	262-	47-	57-	65041
D6 (FM34)	12/05/23	01:08:25	01:21:23	00:12:57	00:08:50	266-	43-	58-	65042
D7 (FM35)	12/05/23	01:28:27	01:41:15	00:12:48	00:07:03	272-	38-	58-	65042
D8 (FM36)	12/05/23	01:49:22	02:02:00	00:12:37	00:08:06	279-	34-	59-	65042
D3 (FM31)	12/05/23	02:11:46	02:24:08	00:12:22	00:09:46	290-	31-	66-	65042
D2 (FM30)	12/05/23	02:33:36	02:45:58	00:12:21	00:09:27	292-	31-	68-	65042
D6 (FM34)	12/05/23	02:55:30	03:07:53	00:12:22	00:09:32	294-	31-	70-	65043
D7 (FM35)	12/05/23	03:15:29	03:27:54	00:12:25	00:07:35	297-	31-	74-	65043
D8 (FM36)	12/05/23	03:36:15	03:48:52	00:12:36	00:08:20	300-	34-	79-	65043
G2 (FM04)	12/05/23	03:40:33	03:51:54	00:03:02	-----	41-	28-	171-	74211
D3 (FM31)	12/05/23	03:58:17	04:11:13	00:12:55	00:06:23	303-	42-	93-	65043
B2 (FM14)	12/05/23	04:18:45	04:24:38	00:05:52	00:07:32	157-	8-	105-	71978
D2 (FM30)	12/05/23	04:20:02	04:33:03	00:08:25	-----	303-	45-	96-	65043
B1 (FM13)	12/05/23	04:33:09	04:41:06	00:07:57	00:00:05	167-	11-	94-	71978
D6 (FM34)	12/05/23	04:41:50	04:54:58	00:13:08	00:00:43	303-	50-	101-	65044
B6 (FM18)	12/05/23	04:46:26	04:56:35	00:01:36	-----	182-	17-	82-	71979
B7 (FM19)	12/05/23	04:59:32	05:10:29	00:10:57	00:02:57	190-	20-	77-	71979
D7 (FM35)	12/05/23	05:01:40	05:14:56	00:04:26	-----	303-	58-	107-	65044
B8 (FM20)	12/05/23	05:15:21	05:27:02	00:11:40	00:00:25	195-	26-	73-	71979
G2 (FM04)	12/05/23	05:18:56	05:30:50	00:03:48	-----	12-	37-	233-	74212
D8 (FM36)	12/05/23	05:22:17	05:35:42	00:04:51	-----	302-	76-	116-	65044
B4 (FM16)	12/05/23	05:30:36	05:42:44	00:07:01	-----	201-	30-	70-	71979
D3 (FM31)	12/05/23	05:44:12	05:57:28	00:13:16	00:01:28	298-	67-	132-	65044

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B3 (FM15)	12/05/23	05:45:46	05:58:21	00:00:52	-----	209-	38-	68-	71979
B2 (FM14)	12/05/23	06:00:09	06:13:05	00:12:56	00:01:47	217-	47-	66-	71979
D2 (FM30)	12/05/23	06:05:57	06:19:08	00:06:03	-----	297-	59-	136-	65044
B1 (FM13)	12/05/23	06:15:36	06:28:46	00:09:37	-----	223-	57-	64-	71979
D6 (FM34)	12/05/23	06:27:47	06:40:48	00:12:01	-----	295-	49-	142-	65045
B6 (FM18)	12/05/23	06:30:04	06:43:27	00:02:38	-----	232-	77-	61-	71980
B7 (FM19)	12/05/23	06:43:40	06:57:04	00:13:24	00:00:12	237-	89-	60-	71980
D7 (FM35)	12/05/23	06:47:43	07:00:20	00:03:15	-----	292-	38-	149-	65045
B8 (FM20)	12/05/23	07:00:00	07:13:22	00:13:01	-----	244-	77-	59-	71980
D8 (FM36)	12/05/23	07:08:35	07:20:24	00:07:02	-----	286-	27-	162-	65045
B4 (FM16)	12/05/23	07:15:34	07:28:55	00:08:31	-----	248-	69-	58-	71980
A3 (FM07)	12/05/23	07:27:11	07:33:18	00:04:22	-----	159-	8-	104-	75401
B3 (FM15)	12/05/23	07:31:08	07:44:25	00:11:07	-----	253-	59-	58-	71980
D3 (FM31)	12/05/23	07:31:24	07:40:35	00:03:05	-----	272-	14-	186-	65045
A4 (FM08)	12/05/23	07:39:32	07:47:54	00:07:18	-----	172-	12-	90-	75402
B2 (FM14)	12/05/23	07:45:53	07:59:03	00:11:09	-----	259-	52-	57-	71980
A8 (FM12)	12/05/23	07:53:10	08:02:47	00:03:44	-----	180-	15-	83-	75402
D2 (FM30)	12/05/23	07:53:31	08:01:44	00:01:03	-----	267-	11-	193-	65045
B1 (FM13)	12/05/23	08:01:38	08:14:42	00:12:58	-----	263-	46-	58-	71980
A5 (FM09)	12/05/23	08:06:42	08:17:11	00:02:28	-----	188-	19-	81-	75402
D6 (FM34)	12/05/23	08:16:00	08:22:32	00:05:20	-----	259-	9-	203-	65046
B6 (FM18)	12/05/23	08:16:31	08:29:22	00:06:50	-----	271-	39-	58-	71981
A7 (FM11)	12/05/23	08:18:10	08:29:19	00:00:03	-----	194-	23-	75-	75402
A6 (FM10)	12/05/23	08:29:38	08:41:14	00:11:36	00:00:18	200-	27-	72-	75402
B7 (FM19)	12/05/23	08:30:18	08:43:02	00:01:47	-----	275-	37-	59-	71981
A2 (FM06)	12/05/23	08:42:55	08:55:02	00:12:00	-----	205-	34-	69-	75402
B8 (FM20)	12/05/23	08:46:48	08:59:23	00:04:20	-----	280-	34-	61-	71981
A1 (FM05)	12/05/23	08:56:25	09:08:54	00:09:31	-----	212-	41-	67-	75401
B4 (FM16)	12/05/23	09:02:29	09:15:00	00:06:06	-----	283-	33-	62-	71981
A3 (FM07)	12/05/23	09:08:25	09:21:09	00:06:08	-----	218-	48-	65-	75402
B3 (FM15)	12/05/23	09:18:08	09:30:36	00:09:27	-----	286-	32-	64-	71981
A4 (FM08)	12/05/23	09:21:56	09:34:51	00:04:15	-----	226-	62-	63-	75403
B2 (FM14)	12/05/23	09:32:57	09:45:21	00:10:29	-----	290-	31-	66-	71981
A8 (FM12)	12/05/23	09:36:14	09:49:18	00:03:57	-----	231-	75-	61-	75403
B1 (FM13)	12/05/23	09:48:43	10:01:07	00:11:48	-----	292-	31-	69-	71981
A5 (FM09)	12/05/23	09:50:17	10:03:24	00:02:17	-----	236-	87-	60-	75403
C7 (FM27)	12/05/23	09:59:37	10:07:33	00:04:08	-----	167-	11-	94-	71301
C4 (FM24)	12/05/23	10:00:26	10:08:02	00:00:28	-----	165-	10-	96-	71301
A7 (FM11)	12/05/23	10:02:11	10:15:19	00:07:17	-----	241-	82-	59-	75403
B6 (FM18)	12/05/23	10:03:33	10:16:00	00:00:41	-----	296-	31-	74-	71982
C3 (FM23)	12/05/23	10:09:12	10:18:02	00:02:02	-----	173-	13-	89-	71301
A6 (FM10)	12/05/23	10:13:59	10:27:05	00:09:02	-----	245-	73-	58-	75403
B7 (FM19)	12/05/23	10:17:17	10:29:46	00:02:41	-----	298-	32-	77-	71982
A2 (FM06)	12/05/23	10:27:40	10:40:43	00:10:57	-----	251-	63-	58-	75403
C2 (FM22)	12/05/23	10:33:01	10:43:42	00:02:58	-----	187-	19-	81-	71301
B8 (FM20)	12/05/23	10:33:41	10:46:15	00:02:32	-----	300-	34-	81-	71982
A1 (FM05)	12/05/23	10:41:31	10:54:30	00:08:14	-----	256-	55-	57-	75402
B4 (FM16)	12/05/23	10:49:16	11:01:57	00:07:27	-----	301-	36-	84-	71982
A3 (FM07)	12/05/23	10:53:47	11:06:40	00:04:43	-----	260-	49-	57-	75403
C5 (FM25)	12/05/23	10:59:45	11:11:51	00:05:10	-----	201-	30-	71-	71302

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B3 (FM15)	12/05/23	11:04:48	11:17:37	00:05:46	-----	302-	38-	88-	71982
A4 (FM08)	12/05/23	11:07:40	11:20:20	00:02:43	-----	266-	43-	56-	75404
B2 (FM14)	12/05/23	11:19:29	11:32:25	00:12:04	-----	303-	42-	93-	71982
A8 (FM12)	12/05/23	11:22:12	11:34:48	00:02:22	-----	271-	39-	58-	75404
C1 (FM21)	12/05/23	11:26:52	11:39:44	00:04:56	-----	215-	45-	66-	71302
B1 (FM13)	12/05/23	11:35:08	11:48:13	00:08:28	-----	303-	47-	98-	71982
A5 (FM09)	12/05/23	11:36:26	11:48:55	00:00:42	-----	274-	36-	57-	75404
C7 (FM27)	12/05/23	11:42:04	11:55:12	00:06:16	-----	223-	57-	64-	71302
C4 (FM24)	12/05/23	11:42:43	11:55:49	00:00:36	-----	222-	55-	64-	71302
A7 (FM11)	12/05/23	11:48:30	12:00:52	00:05:03	-----	278-	34-	60-	75404
B6 (FM18)	12/05/23	11:49:46	12:03:02	00:02:09	-----	303-	57-	106-	71983
C3 (FM23)	12/05/23	11:52:06	12:05:21	00:02:19	-----	226-	64-	63-	71302
A6 (FM10)	12/05/23	12:00:24	12:12:42	00:07:20	-----	281-	33-	61-	75404
B7 (FM19)	12/05/23	12:03:24	12:16:44	00:04:01	-----	302-	65-	111-	71983
A2 (FM06)	12/05/23	12:14:12	12:26:25	00:09:41	-----	285-	31-	62-	75404
C2 (FM22)	12/05/23	12:16:59	12:30:21	00:03:56	-----	236-	86-	60-	71302
B8 (FM20)	12/05/23	12:19:42	12:33:04	00:02:42	-----	301-	77-	116-	71983
A1 (FM05)	12/05/23	12:28:08	12:40:17	00:07:12	-----	288-	31-	64-	75403
B4 (FM16)	12/05/23	12:35:15	12:48:39	00:08:22	-----	301-	86-	121-	71983
A3 (FM07)	12/05/23	12:40:26	12:52:34	00:03:54	-----	291-	30-	66-	75404
C5 (FM25)	12/05/23	12:44:41	12:58:03	00:05:29	-----	247-	69-	58-	71303
B3 (FM15)	12/05/23	12:50:45	13:04:07	00:06:04	-----	299-	81-	126-	71983
A4 (FM08)	12/05/23	12:54:18	13:06:23	00:02:15	-----	294-	30-	68-	75405
B2 (FM14)	12/05/23	13:05:24	13:18:41	00:12:17	-----	298-	67-	132-	71983
A8 (FM12)	12/05/23	13:08:49	13:20:58	00:02:17	-----	296-	31-	73-	75405
C1 (FM21)	12/05/23	13:12:31	13:25:42	00:04:44	-----	257-	53-	57-	71303
G2 (FM04)	12/05/23	13:19:41	13:29:06	00:03:24	-----	100-	16-	4-	74217
B1 (FM13)	12/05/23	13:21:04	13:34:12	00:05:05	-----	296-	55-	138-	71983
A5 (FM09)	12/05/23	13:22:59	13:35:13	00:01:00	-----	298-	31-	74-	75405
C7 (FM27)	12/05/23	13:28:06	13:41:08	00:05:55	-----	263-	46-	58-	71303
C4 (FM24)	12/05/23	13:28:41	13:41:44	00:00:36	-----	263-	47-	58-	71303
A7 (FM11)	12/05/23	13:34:58	13:47:16	00:05:31	-----	300-	32-	79-	75405
B6 (FM18)	12/05/23	13:35:49	13:48:29	00:01:13	-----	292-	40-	148-	71984
C3 (FM23)	12/05/23	13:38:17	13:51:15	00:02:46	-----	266-	43-	58-	71303
A6 (FM10)	12/05/23	13:46:48	13:59:10	00:07:54	-----	301-	34-	82-	75405
B7 (FM19)	12/05/23	13:49:32	14:01:51	00:02:41	-----	289-	33-	154-	71984
A2 (FM06)	12/05/23	14:00:29	14:12:58	00:11:07	-----	302-	36-	86-	75405
C2 (FM22)	12/05/23	14:03:33	14:16:17	00:03:19	-----	274-	37-	58-	71303
B8 (FM20)	12/05/23	14:06:01	14:17:44	00:01:26	-----	286-	26-	162-	71984
A1 (FM05)	12/05/23	14:14:18	14:26:54	00:09:10	-----	303-	39-	90-	75404
B4 (FM16)	12/05/23	14:21:44	14:32:58	00:06:04	-----	283-	22-	168-	71984
A3 (FM07)	12/05/23	14:26:30	14:39:13	00:06:14	-----	303-	42-	94-	75405
C5 (FM25)	12/05/23	14:31:35	14:44:07	00:04:54	-----	282-	33-	62-	71304
B3 (FM15)	12/05/23	14:37:31	14:47:53	00:03:45	-----	278-	18-	176-	71984
A4 (FM08)	12/05/23	14:40:12	14:53:03	00:05:10	-----	303-	48-	99-	75406
B2 (FM14)	12/05/23	14:52:37	15:01:46	00:08:42	-----	272-	14-	186-	71984
A8 (FM12)	12/05/23	14:54:36	15:07:36	00:05:49	-----	303-	55-	104-	75406
G2 (FM04)	12/05/23	14:55:58	15:08:54	00:01:18	-----	158-	80-	334-	74218
C1 (FM21)	12/05/23	14:59:34	15:11:58	00:03:04	-----	289-	31-	64-	71304
A5 (FM09)	12/05/23	15:08:41	15:21:47	00:09:48	-----	303-	62-	108-	75406

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B1 (FM13)	12/05/23	15:08:50	15:16:30	00:05:01	-----	265-	10-	196-	71984
C7 (FM27)	12/05/23	15:15:11	15:27:34	00:11:03	-----	293-	31-	69-	71304
C4 (FM24)	12/05/23	15:15:46	15:28:08	00:00:34	-----	292-	31-	68-	71304
A7 (FM11)	12/05/23	15:20:35	15:33:44	00:05:36	-----	302-	71-	114-	75406
C3 (FM23)	12/05/23	15:25:21	15:37:45	00:04:00	-----	294-	31-	70-	71304
A6 (FM10)	12/05/23	15:32:21	15:45:32	00:07:47	-----	301-	79-	117-	75406
A2 (FM06)	12/05/23	15:46:00	15:59:10	00:13:09	00:00:27	300-	88-	123-	75406
C2 (FM22)	12/05/23	15:50:32	16:03:00	00:03:49	-----	298-	32-	74-	71304
A1 (FM05)	12/05/23	15:59:47	16:12:54	00:09:54	-----	299-	76-	128-	75405
A3 (FM07)	12/05/23	16:11:58	16:25:01	00:12:06	-----	297-	65-	133-	75406
C5 (FM25)	12/05/23	16:18:22	16:31:03	00:06:02	-----	301-	36-	84-	71305
A4 (FM08)	12/05/23	16:25:42	16:38:31	00:07:27	-----	295-	50-	141-	75407
G2 (FM04)	12/05/23	16:38:30	16:44:49	00:06:18	-----	231-	8-	286-	74219
A8 (FM12)	12/05/23	16:40:10	16:52:44	00:07:55	-----	292-	41-	146-	75407
C1 (FM21)	12/05/23	16:46:07	16:59:01	00:06:16	-----	302-	41-	91-	71305
A5 (FM09)	12/05/23	16:54:20	17:06:37	00:07:35	-----	290-	35-	153-	75407
C7 (FM27)	12/05/23	17:01:35	17:14:39	00:08:02	-----	303-	47-	98-	71305
C4 (FM24)	12/05/23	17:02:11	17:15:13	00:00:33	-----	303-	46-	97-	71305
A7 (FM11)	12/05/23	17:06:23	17:18:13	00:03:00	-----	287-	29-	158-	75407
C3 (FM23)	12/05/23	17:11:41	17:24:49	00:06:35	-----	303-	50-	101-	71305
A6 (FM10)	12/05/23	17:18:17	17:29:42	00:04:53	-----	285-	25-	163-	75407
A2 (FM06)	12/05/23	17:32:10	17:42:49	00:10:38	00:02:28	280-	20-	172-	75407
C2 (FM22)	12/05/23	17:36:40	17:49:58	00:07:08	-----	302-	62-	109-	71305
A1 (FM05)	12/05/23	17:46:16	17:56:02	00:06:03	-----	276-	16-	180-	75406
A3 (FM07)	12/05/23	17:58:49	18:07:35	00:08:45	00:02:47	271-	13-	186-	75407
C5 (FM25)	12/05/23	18:04:20	18:17:45	00:10:09	-----	301-	85-	120-	71306
A4 (FM08)	12/05/23	18:13:21	18:19:58	00:02:12	-----	262-	9-	200-	75408
A8 (FM12)	12/05/23	18:28:58	18:32:52	00:03:54	00:09:00	246-	6-	218-	75408
C1 (FM21)	12/05/23	18:32:02	18:45:19	00:12:27	-----	298-	70-	131-	71306
C7 (FM27)	12/05/23	18:47:32	19:00:39	00:13:07	00:02:12	296-	55-	138-	71306
C4 (FM24)	12/05/23	18:48:06	19:01:15	00:00:36	-----	296-	57-	137-	71306
C3 (FM23)	12/05/23	18:57:38	19:10:37	00:09:21	-----	295-	49-	142-	71306
C2 (FM22)	12/05/23	19:22:45	19:35:12	00:12:26	00:12:07	290-	35-	153-	71306
C5 (FM25)	12/05/23	19:50:48	20:02:06	00:11:17	00:15:36	283-	22-	167-	71307
C1 (FM21)	12/05/23	20:19:07	20:28:32	00:09:25	00:17:01	275-	14-	183-	71307
C7 (FM27)	12/05/23	20:35:18	20:42:58	00:07:40	00:06:45	265-	10-	196-	71307
C4 (FM24)	12/05/23	20:35:43	20:43:44	00:00:46	-----	267-	11-	193-	71307
C3 (FM23)	12/05/23	20:45:50	20:52:20	00:06:30	00:02:06	259-	9-	203-	71307
D2 (FM30)	12/05/23	20:47:31	20:53:21	00:01:00	-----	157-	8-	105-	65053
D6 (FM34)	12/05/23	21:08:10	21:15:57	00:07:47	00:14:48	167-	10-	95-	65054
D7 (FM35)	12/05/23	21:26:54	21:36:29	00:09:34	00:10:56	178-	15-	84-	65054
D8 (FM36)	12/05/23	21:46:27	21:57:42	00:11:14	00:09:58	192-	22-	78-	65054
D3 (FM31)	12/05/23	22:07:20	22:20:02	00:12:41	00:09:38	211-	41-	67-	65054
D2 (FM30)	12/05/23	22:28:54	22:41:49	00:12:55	00:08:52	217-	47-	66-	65054
D6 (FM34)	12/05/23	22:50:33	23:03:40	00:13:07	00:08:43	222-	56-	64-	65055
D7 (FM35)	12/05/23	23:10:13	23:23:32	00:13:18	00:06:32	230-	71-	62-	65055
D8 (FM36)	12/05/23	23:30:46	23:44:11	00:13:24	00:07:14	240-	86-	59-	65055
D3 (FM31)	12/05/23	23:52:50	00:06:04	00:13:13	00:08:39	255-	56-	57-	65055
D2 (FM30)	12/05/24	00:14:38	00:27:48	00:13:09	00:08:34	259-	51-	57-	65055
D6 (FM34)	12/05/24	00:36:33	00:49:36	00:13:02	00:08:45	263-	46-	57-	65056

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D7 (FM35)	12/05/24	00:56:33	01:09:27	00:12:53	00:06:57	269-	41-	58-	65056
D8 (FM36)	12/05/24	01:17:28	01:30:10	00:12:41	00:08:01	276-	36-	58-	65056
D3 (FM31)	12/05/24	01:39:53	01:52:17	00:12:24	00:09:43	288-	31-	64-	65056
D2 (FM30)	12/05/24	02:01:43	02:14:06	00:12:22	00:09:26	290-	31-	66-	65056
D6 (FM34)	12/05/24	02:23:39	02:36:01	00:12:22	00:09:33	292-	31-	68-	65057
D7 (FM35)	12/05/24	02:43:37	02:56:01	00:12:23	00:07:36	295-	31-	72-	65057
D8 (FM36)	12/05/24	03:04:25	03:16:58	00:12:32	00:08:23	299-	33-	77-	65057
G2 (FM04)	12/05/24	03:16:02	03:25:00	00:08:02	-----	54-	14-	149-	74225
D3 (FM31)	12/05/24	03:26:30	03:39:20	00:12:50	00:01:29	302-	39-	90-	65057
D2 (FM30)	12/05/24	03:48:15	04:01:10	00:12:55	00:08:54	303-	42-	93-	65057
B1 (FM13)	12/05/24	04:02:07	04:08:46	00:06:39	00:00:56	160-	9-	101-	71992
D6 (FM34)	12/05/24	04:10:03	04:23:07	00:13:03	00:01:17	303-	46-	97-	65058
B6 (FM18)	12/05/24	04:15:06	04:24:31	00:01:24	-----	177-	14-	86-	71993
B7 (FM19)	12/05/24	04:28:07	04:38:28	00:10:21	00:03:35	184-	18-	80-	71993
D7 (FM35)	12/05/24	04:29:53	04:43:05	00:04:36	-----	303-	53-	103-	65058
B8 (FM20)	12/05/24	04:43:50	04:55:05	00:11:15	00:00:45	193-	22-	76-	71993
D8 (FM36)	12/05/24	04:50:30	05:03:53	00:08:47	-----	302-	68-	112-	65058
G2 (FM04)	12/05/24	04:53:14	05:05:50	00:01:56	-----	20-	68-	214-	74226
B4 (FM16)	12/05/24	04:59:02	05:10:49	00:04:59	-----	198-	26-	73-	71993
D3 (FM31)	12/05/24	05:12:25	05:25:45	00:13:20	00:01:36	299-	76-	128-	65058
B3 (FM15)	12/05/24	05:14:09	05:26:27	00:00:41	-----	204-	33-	69-	71993
B2 (FM14)	12/05/24	05:28:30	05:41:13	00:12:42	00:02:03	211-	41-	67-	71993
D2 (FM30)	12/05/24	05:34:10	05:47:26	00:06:12	-----	298-	67-	132-	65058
B1 (FM13)	12/05/24	05:43:54	05:56:56	00:09:29	-----	219-	50-	65-	71993
D6 (FM34)	12/05/24	05:55:59	06:09:08	00:12:12	-----	296-	56-	137-	65059
B6 (FM18)	12/05/24	05:58:18	06:11:37	00:02:29	-----	228-	69-	62-	71994
B7 (FM19)	12/05/24	06:11:52	06:25:16	00:13:23	00:00:14	234-	80-	61-	71994
D7 (FM35)	12/05/24	06:15:53	06:28:43	00:03:27	-----	293-	44-	145-	65059
B8 (FM20)	12/05/24	06:28:10	06:41:33	00:12:50	-----	240-	85-	59-	71994
G2 (FM04)	12/05/24	06:33:46	06:40:51	00:00:04	-----	348-	10-	282-	74227
D8 (FM36)	12/05/24	06:36:41	06:48:52	00:08:00	-----	289-	31-	157-	65059
B4 (FM16)	12/05/24	06:43:44	06:57:07	00:08:14	-----	244-	76-	59-	71994
B3 (FM15)	12/05/24	06:59:15	07:12:36	00:13:20	00:02:07	250-	65-	58-	71994
D3 (FM31)	12/05/24	06:59:20	07:09:18	00:03:01	-----	276-	16-	180-	65059
A4 (FM08)	12/05/24	07:03:11	07:09:36	00:00:17	-----	161-	9-	98-	75416
B2 (FM14)	12/05/24	07:14:00	07:27:15	00:13:14	00:04:24	255-	56-	58-	71994
A8 (FM12)	12/05/24	07:16:30	07:24:45	00:02:03	-----	171-	12-	92-	75416
D2 (FM30)	12/05/24	07:21:21	07:30:32	00:05:47	-----	272-	14-	186-	65059
B1 (FM13)	12/05/24	07:29:44	07:42:54	00:12:21	-----	260-	50-	57-	71994
A5 (FM09)	12/05/24	07:29:53	07:39:18	00:03:03	-----	179-	15-	88-	75416
A7 (FM11)	12/05/24	07:41:13	07:51:32	00:10:19	00:01:55	186-	18-	80-	75416
D6 (FM34)	12/05/24	07:43:41	07:51:32	00:00:00	-----	266-	11-	194-	65060
B6 (FM18)	12/05/24	07:44:35	07:57:33	00:06:00	-----	268-	42-	58-	71995
A6 (FM10)	12/05/24	07:52:36	08:03:30	00:05:57	-----	192-	21-	76-	75416
B7 (FM19)	12/05/24	07:58:22	08:11:12	00:07:41	-----	272-	38-	59-	71995
D7 (FM35)	12/05/24	08:04:43	08:09:42	00:01:02	-----	251-	7-	213-	65060
A2 (FM06)	12/05/24	08:05:46	08:17:22	00:07:40	-----	197-	27-	72-	75416
B8 (FM20)	12/05/24	08:14:53	08:27:32	00:10:10	-----	277-	35-	60-	71995
A1 (FM05)	12/05/24	08:19:13	08:31:17	00:03:45	-----	204-	33-	70-	75415
B4 (FM16)	12/05/24	08:30:34	08:43:09	00:11:51	-----	280-	34-	61-	71995

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A3 (FM07)	12/05/24	08:31:11	08:43:34	00:00:25	-----	210-	39-	67-	75416
A4 (FM08)	12/05/24	08:44:35	08:57:18	00:12:43	00:01:01	219-	50-	66-	75417
B3 (FM15)	12/05/24	08:46:12	08:58:43	00:01:24	-----	284-	32-	62-	71995
A8 (FM12)	12/05/24	08:58:50	09:11:46	00:12:56	00:00:06	225-	61-	63-	75417
B2 (FM14)	12/05/24	09:01:03	09:13:28	00:01:42	-----	288-	31-	65-	71995
A5 (FM09)	12/05/24	09:12:50	09:25:54	00:12:25	-----	230-	72-	62-	75417
B1 (FM13)	12/05/24	09:16:49	09:29:14	00:03:20	-----	291-	31-	67-	71995
A7 (FM11)	12/05/24	09:24:42	09:37:48	00:08:34	-----	235-	84-	60-	75417
C7 (FM27)	12/05/24	09:28:37	09:35:14	00:02:03	-----	160-	9-	101-	71315
C4 (FM24)	12/05/24	09:29:25	09:35:33	00:00:18	-----	158-	8-	104-	71315
B6 (FM18)	12/05/24	09:31:40	09:44:05	00:08:32	-----	295-	31-	72-	71996
A6 (FM10)	12/05/24	09:36:27	09:49:35	00:05:29	-----	239-	86-	59-	75417
C3 (FM23)	12/05/24	09:37:54	09:45:40	00:03:05	-----	166-	10-	95-	71315
B7 (FM19)	12/05/24	09:45:24	09:57:51	00:12:11	-----	297-	32-	75-	71996
A2 (FM06)	12/05/24	09:50:05	10:03:13	00:05:21	-----	245-	74-	58-	75417
C2 (FM22)	12/05/24	10:01:30	10:11:32	00:08:18	-----	182-	16-	85-	71315
B8 (FM20)	12/05/24	10:01:49	10:14:19	00:02:47	-----	299-	33-	78-	71996
A1 (FM05)	12/05/24	10:03:55	10:17:00	00:02:40	-----	250-	64-	58-	75416
A3 (FM07)	12/05/24	10:16:11	10:29:11	00:12:11	-----	254-	57-	57-	75417
B4 (FM16)	12/05/24	10:17:26	10:30:02	00:00:50	-----	300-	34-	81-	71996
C5 (FM25)	12/05/24	10:28:03	10:39:48	00:09:46	-----	198-	26-	73-	71316
A4 (FM08)	12/05/24	10:30:01	10:42:49	00:03:01	-----	261-	48-	56-	75418
B3 (FM15)	12/05/24	10:32:57	10:45:41	00:02:51	-----	301-	37-	86-	71996
A8 (FM12)	12/05/24	10:44:32	10:57:15	00:11:34	-----	266-	43-	57-	75418
B2 (FM14)	12/05/24	10:47:40	11:00:31	00:03:15	-----	302-	40-	90-	71996
C1 (FM21)	12/05/24	10:55:06	11:07:44	00:07:12	-----	210-	39-	68-	71316
A5 (FM09)	12/05/24	10:58:45	11:11:23	00:03:39	-----	269-	40-	57-	75418
B1 (FM13)	12/05/24	11:03:19	11:16:19	00:04:55	-----	303-	44-	95-	71996
C7 (FM27)	12/05/24	11:10:24	11:23:24	00:07:05	-----	219-	50-	65-	71316
A7 (FM11)	12/05/24	11:10:49	11:23:19	00:00:05	-----	274-	37-	59-	75418
C4 (FM24)	12/05/24	11:10:56	11:23:53	00:00:34	-----	217-	48-	65-	71316
B6 (FM18)	12/05/24	11:17:57	11:31:09	00:07:16	-----	303-	52-	103-	71997
C3 (FM23)	12/05/24	11:20:15	11:33:23	00:02:13	-----	222-	56-	64-	71316
A6 (FM10)	12/05/24	11:22:43	11:35:07	00:01:44	-----	277-	35-	59-	75418
B7 (FM19)	12/05/24	11:31:35	11:44:52	00:09:44	-----	303-	59-	107-	71997
A2 (FM06)	12/05/24	11:36:31	11:48:49	00:03:56	-----	281-	33-	60-	75418
C2 (FM22)	12/05/24	11:45:04	11:58:24	00:09:35	-----	232-	76-	61-	71316
B8 (FM20)	12/05/24	11:47:54	12:01:14	00:02:49	-----	302-	69-	113-	71997
A1 (FM05)	12/05/24	11:50:27	12:02:40	00:01:26	-----	284-	32-	62-	75417
A3 (FM07)	12/05/24	12:02:47	12:14:57	00:12:09	00:00:06	287-	31-	64-	75418
B4 (FM16)	12/05/24	12:03:27	12:16:50	00:01:53	-----	301-	78-	117-	71997
C5 (FM25)	12/05/24	12:12:43	12:26:07	00:09:16	-----	244-	76-	59-	71317
A4 (FM08)	12/05/24	12:16:40	12:28:44	00:02:37	-----	291-	30-	65-	75419
B3 (FM15)	12/05/24	12:18:55	12:32:19	00:03:35	-----	300-	89-	122-	71997
A8 (FM12)	12/05/24	12:31:11	12:43:17	00:10:58	-----	294-	30-	69-	75419
B2 (FM14)	12/05/24	12:33:35	12:46:56	00:03:38	-----	299-	75-	128-	71997
C1 (FM21)	12/05/24	12:40:30	12:53:46	00:06:50	-----	254-	58-	57-	71317
A5 (FM09)	12/05/24	12:45:22	12:57:32	00:03:46	-----	296-	30-	70-	75419
B1 (FM13)	12/05/24	12:49:14	13:02:29	00:04:57	-----	297-	63-	134-	71997
C7 (FM27)	12/05/24	12:56:15	13:09:21	00:06:52	-----	260-	49-	57-	71317

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
G2 (FM04)	12/05/24	12:56:17	13:02:26	00:06:05	-----	77-	9-	16-	74231
C4 (FM24)	12/05/24	12:56:42	13:09:51	00:07:24	-----	259-	51-	57-	71317
A7 (FM11)	12/05/24	12:57:23	13:09:35	00:00:01	-----	298-	31-	75-	75419
B6 (FM18)	12/05/24	13:03:57	13:16:50	00:07:15	-----	294-	45-	144-	71998
C3 (FM23)	12/05/24	13:06:15	13:19:18	00:02:28	-----	263-	46-	58-	71317
A6 (FM10)	12/05/24	13:09:13	13:21:28	00:02:09	-----	299-	32-	78-	75419
B7 (FM19)	12/05/24	13:17:39	13:30:14	00:08:46	-----	291-	38-	150-	71998
A2 (FM06)	12/05/24	13:22:55	13:35:16	00:05:01	-----	301-	34-	81-	75419
C2 (FM22)	12/05/24	13:31:29	13:44:19	00:09:03	-----	271-	39-	57-	71317
B8 (FM20)	12/05/24	13:34:06	13:46:11	00:01:52	-----	288-	30-	157-	71998
A1 (FM05)	12/05/24	13:36:45	13:49:13	00:03:01	-----	302-	36-	85-	75418
A3 (FM07)	12/05/24	13:49:00	14:01:34	00:12:20	-----	302-	38-	89-	75419
B4 (FM16)	12/05/24	13:49:47	14:01:29	00:00:04	-----	285-	26-	163-	71998
C5 (FM25)	12/05/24	13:59:32	14:12:08	00:10:38	-----	280-	34-	61-	71318
A4 (FM08)	12/05/24	14:02:41	14:15:24	00:03:15	-----	303-	43-	93-	75420
B3 (FM15)	12/05/24	14:05:30	14:16:28	00:01:03	-----	281-	21-	170-	71998
A8 (FM12)	12/05/24	14:17:05	14:29:57	00:12:52	00:00:37	303-	48-	99-	75420
B2 (FM14)	12/05/24	14:20:31	14:30:28	00:00:30	-----	276-	16-	180-	71998
C1 (FM21)	12/05/24	14:27:31	14:39:57	00:09:29	-----	286-	31-	63-	71318
G2 (FM04)	12/05/24	14:30:39	14:43:22	00:03:24	-----	140-	57-	343-	74232
A5 (FM09)	12/05/24	14:31:11	14:44:10	00:00:48	-----	303-	53-	103-	75420
B1 (FM13)	12/05/24	14:36:36	14:45:21	00:01:10	-----	270-	12-	189-	71998
A7 (FM11)	12/05/24	14:43:05	14:56:10	00:10:48	-----	303-	60-	108-	75420
C7 (FM27)	12/05/24	14:43:19	14:55:42	00:00:02	-----	291-	31-	67-	71318
C4 (FM24)	12/05/24	14:43:46	14:56:09	00:00:27	-----	290-	31-	66-	71318
B6 (FM18)	12/05/24	14:52:35	14:58:04	00:01:55	-----	254-	7-	209-	71999
C3 (FM23)	12/05/24	14:53:20	15:05:42	00:07:38	-----	292-	31-	68-	71318
A6 (FM10)	12/05/24	14:54:51	15:07:59	00:02:16	-----	302-	67-	112-	75420
A2 (FM06)	12/05/24	15:08:29	15:21:38	00:13:09	00:00:30	301-	78-	117-	75420
C2 (FM22)	12/05/24	15:18:31	15:30:56	00:09:17	-----	296-	31-	72-	71318
A1 (FM05)	12/05/24	15:22:16	15:35:26	00:04:29	-----	300-	90-	122-	75419
A3 (FM07)	12/05/24	15:34:28	15:47:37	00:12:10	-----	299-	79-	127-	75420
C5 (FM25)	12/05/24	15:46:23	15:59:00	00:11:23	-----	300-	34-	81-	71319
A4 (FM08)	12/05/24	15:48:09	16:01:09	00:02:09	-----	297-	63-	135-	75421
A8 (FM12)	12/05/24	16:02:35	16:15:26	00:12:51	00:01:26	295-	52-	140-	75421
G2 (FM04)	12/05/24	16:10:46	16:21:03	00:05:36	-----	202-	18-	307-	74233
C1 (FM21)	12/05/24	16:14:09	16:26:58	00:05:55	-----	302-	39-	88-	71319
A5 (FM09)	12/05/24	16:16:44	16:29:23	00:02:24	-----	293-	43-	146-	75421
A7 (FM11)	12/05/24	16:28:44	16:41:03	00:11:40	-----	291-	36-	151-	75421
C7 (FM27)	12/05/24	16:29:49	16:42:47	00:01:44	-----	303-	44-	95-	71319
C4 (FM24)	12/05/24	16:30:16	16:43:14	00:00:26	-----	303-	43-	94-	71319
C3 (FM23)	12/05/24	16:39:44	16:52:47	00:09:33	-----	303-	46-	97-	71319
A6 (FM10)	12/05/24	16:40:35	16:52:36	00:00:01	-----	288-	31-	156-	75421
A2 (FM06)	12/05/24	16:54:24	17:05:48	00:11:23	00:01:48	285-	25-	163-	75421
C2 (FM22)	12/05/24	17:04:43	17:17:58	00:12:10	-----	303-	57-	105-	71319
A1 (FM05)	12/05/24	17:08:25	17:19:10	00:01:12	-----	281-	20-	171-	75420
A3 (FM07)	12/05/24	17:20:52	17:30:54	00:10:02	00:01:42	277-	17-	177-	75421
C5 (FM25)	12/05/24	17:32:24	17:45:48	00:13:24	00:01:29	301-	77-	117-	71320
A4 (FM08)	12/05/24	17:35:05	17:43:36	00:02:01	-----	271-	12-	189-	75422
A8 (FM12)	12/05/24	17:50:09	17:57:03	00:06:53	00:06:33	262-	9-	200-	75422

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C1 (FM21)	12/05/24	18:00:05	18:13:26	00:13:21	00:03:02	299-	79-	127-	71320
A5 (FM09)	12/05/24	18:05:15	18:09:52	00:03:03	-----	255-	7-	209-	75422
C7 (FM27)	12/05/24	18:15:44	18:28:58	00:13:14	00:05:51	297-	63-	134-	71320
C4 (FM24)	12/05/24	18:16:11	18:29:27	00:00:29	-----	297-	65-	133-	71320
C3 (FM23)	12/05/24	18:25:39	18:38:48	00:09:20	-----	296-	56-	137-	71320
C2 (FM22)	12/05/24	18:50:44	19:03:27	00:12:42	00:11:56	292-	40-	148-	71320
C5 (FM25)	12/05/24	19:18:43	19:30:28	00:11:45	00:15:16	286-	26-	162-	71321
C1 (FM21)	12/05/24	19:46:54	19:57:06	00:10:11	00:16:25	278-	17-	177-	71321
C7 (FM27)	12/05/24	20:03:06	20:11:49	00:08:43	00:06:00	270-	12-	188-	71321
C4 (FM24)	12/05/24	20:03:26	20:12:27	00:00:37	-----	271-	13-	186-	71321
C3 (FM23)	12/05/24	20:13:20	20:21:12	00:07:51	00:00:53	266-	11-	195-	71321
D6 (FM34)	12/05/24	20:37:12	20:43:38	00:06:25	00:16:00	160-	8-	102-	65068
C2 (FM22)	12/05/24	20:40:21	20:43:34	00:00:03	-----	249-	6-	216-	71321
D7 (FM35)	12/05/24	20:55:39	21:04:21	00:08:42	00:12:05	172-	12-	89-	65068
D8 (FM36)	12/05/24	21:15:02	21:25:43	00:10:41	00:10:40	187-	19-	81-	65068
D3 (FM31)	12/05/24	21:35:45	21:48:11	00:12:26	00:10:01	207-	35-	68-	65068
D2 (FM30)	12/05/24	21:57:17	22:10:00	00:12:41	00:09:06	211-	41-	67-	65068
D6 (FM34)	12/05/24	22:18:53	22:31:52	00:12:58	00:08:54	218-	49-	65-	65069
D7 (FM35)	12/05/24	22:38:30	22:51:44	00:13:13	00:06:38	226-	63-	63-	65069
D8 (FM36)	12/05/24	22:59:00	23:12:23	00:13:23	00:07:15	236-	86-	60-	65069
D3 (FM31)	12/05/24	23:21:00	23:34:17	00:13:17	00:08:36	252-	62-	58-	65069
D2 (FM30)	12/05/24	23:42:47	23:56:01	00:13:13	00:08:30	255-	56-	57-	65069
D6 (FM34)	12/05/25	00:04:42	00:17:49	00:13:07	00:08:40	260-	50-	57-	65070
D7 (FM35)	12/05/25	00:24:40	00:37:39	00:12:58	00:06:50	266-	43-	58-	65070
D8 (FM36)	12/05/25	00:45:34	00:58:20	00:12:46	00:07:55	274-	37-	58-	65070
D3 (FM31)	12/05/25	01:08:00	01:20:26	00:12:26	00:09:39	285-	32-	63-	65070
D2 (FM30)	12/05/25	01:29:50	01:42:14	00:12:24	00:09:23	288-	31-	64-	65070
D6 (FM34)	12/05/25	01:51:47	02:04:09	00:12:22	00:09:32	291-	31-	67-	65071
D7 (FM35)	12/05/25	02:11:45	02:24:08	00:12:22	00:07:36	294-	31-	70-	65071
D8 (FM36)	12/05/25	02:32:34	02:45:03	00:12:29	00:08:26	298-	32-	74-	65071
G2 (FM04)	12/05/25	02:53:25	02:56:03	00:02:38	00:08:21	85-	6-	112-	74239
D3 (FM31)	12/05/25	02:54:42	03:07:26	00:11:23	-----	302-	37-	87-	65071
D2 (FM30)	12/05/25	03:16:27	03:29:17	00:12:50	00:09:00	302-	39-	90-	65071
D6 (FM34)	12/05/25	03:38:16	03:51:14	00:12:58	00:08:59	303-	43-	94-	65072
B6 (FM18)	12/05/25	03:43:52	03:52:17	00:01:02	-----	170-	12-	91-	72007
B7 (FM19)	12/05/25	03:56:45	04:06:24	00:09:39	00:04:28	179-	15-	84-	72007
D7 (FM35)	12/05/25	03:58:06	04:11:13	00:04:48	-----	303-	49-	100-	65072
B8 (FM20)	12/05/25	04:12:23	04:23:06	00:10:43	00:01:09	188-	19-	78-	72007
D8 (FM36)	12/05/25	04:18:43	04:32:03	00:08:57	-----	302-	62-	108-	65072
B4 (FM16)	12/05/25	04:27:32	04:38:52	00:06:48	-----	194-	23-	75-	72007
G2 (FM04)	12/05/25	04:27:48	04:40:22	00:01:29	-----	29-	65-	197-	74240
D3 (FM31)	12/05/25	04:40:38	04:54:00	00:13:22	00:00:16	300-	85-	125-	65072
B3 (FM15)	12/05/25	04:42:34	04:54:32	00:00:31	-----	199-	28-	71-	72007
B2 (FM14)	12/05/25	04:56:53	05:09:21	00:12:27	00:02:21	207-	36-	68-	72007
D2 (FM30)	12/05/25	05:02:22	05:15:42	00:06:21	-----	299-	76-	128-	65072
B1 (FM13)	12/05/25	05:12:15	05:25:05	00:09:22	-----	213-	43-	66-	72007
D6 (FM34)	12/05/25	05:24:11	05:37:27	00:12:22	-----	297-	64-	134-	65073
B6 (FM18)	12/05/25	05:26:34	05:39:48	00:02:20	-----	224-	60-	63-	72008
B7 (FM19)	12/05/25	05:40:06	05:53:26	00:13:20	00:00:18	230-	72-	62-	72008
D7 (FM35)	12/05/25	05:44:03	05:57:04	00:03:37	-----	295-	50-	141-	65073

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B8 (FM20)	12/05/25	05:56:22	06:09:45	00:12:41	-----	236-	86-	60-	72008
D8 (FM36)	12/05/25	06:04:49	06:17:18	00:07:33	-----	291-	35-	153-	65073
G2 (FM04)	12/05/25	06:07:22	06:17:10	00:00:07	-----	360-	18-	259-	74241
B4 (FM16)	12/05/25	06:11:55	06:25:19	00:08:08	-----	240-	84-	59-	72008
D3 (FM31)	12/05/25	06:27:19	06:37:56	00:10:37	00:02:00	280-	19-	174-	65073
B3 (FM15)	12/05/25	06:27:24	06:40:47	00:02:50	-----	246-	72-	58-	72008
A8 (FM12)	12/05/25	06:40:11	06:46:25	00:05:38	-----	160-	8-	103-	75430
B2 (FM14)	12/05/25	06:42:08	06:55:27	00:09:01	-----	252-	62-	58-	72008
D2 (FM30)	12/05/25	06:49:17	06:59:15	00:03:48	-----	276-	16-	180-	65073
A5 (FM09)	12/05/25	06:53:16	07:01:14	00:01:58	-----	169-	11-	92-	75430
B1 (FM13)	12/05/25	06:57:52	07:11:05	00:09:51	-----	257-	54-	58-	72008
A7 (FM11)	12/05/25	07:04:25	07:13:39	00:02:33	-----	177-	14-	86-	75430
D6 (FM34)	12/05/25	07:11:30	07:20:22	00:06:43	-----	271-	13-	187-	65074
B6 (FM18)	12/05/25	07:12:41	07:25:43	00:05:21	-----	265-	45-	58-	72009
A6 (FM10)	12/05/25	07:15:41	07:25:41	00:00:02	-----	183-	17-	81-	75430
B7 (FM19)	12/05/25	07:26:27	07:39:22	00:12:54	00:00:46	269-	41-	58-	72009
A2 (FM06)	12/05/25	07:28:43	07:39:37	00:00:15	-----	191-	21-	77-	75430
D7 (FM35)	12/05/25	07:32:11	07:38:54	00:00:04	-----	260-	9-	202-	65074
A1 (FM05)	12/05/25	07:42:06	07:53:37	00:11:30	00:03:12	196-	26-	73-	75429
B8 (FM20)	12/05/25	07:42:58	07:55:41	00:02:04	-----	274-	37-	59-	72009
A3 (FM07)	12/05/25	07:54:01	08:05:58	00:10:16	-----	202-	31-	70-	75430
B4 (FM16)	12/05/25	07:58:38	08:11:18	00:05:20	-----	277-	35-	60-	72009
A4 (FM08)	12/05/25	08:07:19	08:19:44	00:08:25	-----	212-	40-	67-	75431
B3 (FM15)	12/05/25	08:14:16	08:26:50	00:07:06	-----	281-	33-	61-	72009
A8 (FM12)	12/05/25	08:21:29	08:34:12	00:07:22	-----	218-	49-	65-	75431
B2 (FM14)	12/05/25	08:29:08	08:41:36	00:07:23	-----	285-	32-	63-	72009
A5 (FM09)	12/05/25	08:35:27	08:48:22	00:06:45	-----	224-	59-	64-	75431
B1 (FM13)	12/05/25	08:44:55	08:57:21	00:08:59	-----	289-	31-	65-	72009
A7 (FM11)	12/05/25	08:47:16	09:00:17	00:02:56	-----	229-	70-	62-	75431
C7 (FM27)	12/05/25	08:57:55	09:02:37	00:02:20	-----	146-	7-	105-	71329
A6 (FM10)	12/05/25	08:58:59	09:12:04	00:09:26	-----	233-	79-	61-	75431
B6 (FM18)	12/05/25	08:59:46	09:12:11	00:00:06	-----	293-	31-	70-	72010
C3 (FM23)	12/05/25	09:06:48	09:13:09	00:00:58	-----	159-	8-	103-	71329
A2 (FM06)	12/05/25	09:12:34	09:25:42	00:12:33	-----	239-	87-	59-	75431
B7 (FM19)	12/05/25	09:13:31	09:25:56	00:00:13	-----	295-	31-	72-	72010
A1 (FM05)	12/05/25	09:26:22	09:39:30	00:13:07	00:00:25	244-	75-	58-	75430
B8 (FM20)	12/05/25	09:29:57	09:42:24	00:02:54	-----	298-	32-	76-	72010
C2 (FM22)	12/05/25	09:30:03	09:39:18	00:03:06	-----	176-	14-	90-	71329
A3 (FM07)	12/05/25	09:38:37	09:51:42	00:12:24	-----	249-	66-	58-	75431
B4 (FM16)	12/05/25	09:45:34	09:58:06	00:06:24	-----	299-	33-	79-	72010
A4 (FM08)	12/05/25	09:52:24	10:05:19	00:07:12	-----	255-	55-	57-	75432
C5 (FM25)	12/05/25	09:56:25	10:07:43	00:02:23	-----	193-	23-	75-	71330
B3 (FM15)	12/05/25	10:01:06	10:13:45	00:06:02	-----	301-	35-	83-	72010
A8 (FM12)	12/05/25	10:06:53	10:19:44	00:05:58	-----	260-	49-	57-	75432
B2 (FM14)	12/05/25	10:15:50	10:28:36	00:08:52	-----	302-	38-	87-	72010
A5 (FM09)	12/05/25	10:21:06	10:33:51	00:05:15	-----	264-	44-	56-	75432
C1 (FM21)	12/05/25	10:23:21	10:35:43	00:01:51	-----	205-	34-	70-	71330
B1 (FM13)	12/05/25	10:31:30	10:44:25	00:08:41	-----	302-	41-	92-	72010
A7 (FM11)	12/05/25	10:33:09	10:45:46	00:01:21	-----	269-	40-	58-	75432
C7 (FM27)	12/05/25	10:38:46	10:51:35	00:05:48	-----	214-	43-	66-	71330

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C4 (FM24)	12/05/25	10:39:13	10:51:56	00:00:21	-----	212-	42-	66-	71330
A6 (FM10)	12/05/25	10:45:02	10:57:34	00:05:37	-----	272-	38-	58-	75432
B6 (FM18)	12/05/25	10:46:08	10:59:16	00:01:42	-----	303-	48-	99-	72011
C3 (FM23)	12/05/25	10:48:26	11:01:24	00:02:08	-----	218-	49-	65-	71330
A2 (FM06)	12/05/25	10:58:49	11:11:14	00:09:49	-----	276-	35-	59-	75432
B7 (FM19)	12/05/25	10:59:46	11:13:00	00:01:45	-----	303-	54-	104-	72011
A1 (FM05)	12/05/25	11:12:46	11:25:05	00:12:05	-----	280-	33-	60-	75431
C2 (FM22)	12/05/25	11:13:11	11:26:27	00:01:21	-----	228-	68-	62-	71330
B8 (FM20)	12/05/25	11:16:06	11:29:23	00:02:55	-----	302-	63-	109-	72011
A3 (FM07)	12/05/25	11:25:08	11:37:22	00:07:58	-----	284-	32-	62-	75432
B4 (FM16)	12/05/25	11:31:38	11:45:00	00:07:38	-----	302-	70-	113-	72011
A4 (FM08)	12/05/25	11:39:00	11:51:06	00:06:05	-----	288-	30-	62-	75433
C5 (FM25)	12/05/25	11:40:46	11:54:10	00:03:04	-----	240-	85-	59-	71331
B3 (FM15)	12/05/25	11:47:05	12:00:30	00:06:19	-----	301-	82-	119-	72011
A8 (FM12)	12/05/25	11:53:31	12:05:38	00:05:07	-----	291-	30-	66-	75433
B2 (FM14)	12/05/25	12:01:47	12:15:10	00:09:31	-----	300-	84-	125-	72011
A5 (FM09)	12/05/25	12:07:45	12:19:52	00:04:42	-----	293-	30-	67-	75433
C1 (FM21)	12/05/25	12:08:30	12:21:50	00:01:57	-----	250-	64-	57-	71331
B1 (FM13)	12/05/25	12:17:25	12:30:45	00:08:55	-----	298-	71-	130-	72011
A7 (FM11)	12/05/25	12:19:46	12:31:54	00:01:08	-----	296-	30-	71-	75433
C7 (FM27)	12/05/25	12:24:24	12:37:35	00:05:41	-----	257-	54-	57-	71331
C4 (FM24)	12/05/25	12:24:44	12:37:57	00:00:22	-----	256-	55-	58-	71331
A6 (FM10)	12/05/25	12:31:37	12:43:47	00:05:49	-----	297-	31-	74-	75433
B6 (FM18)	12/05/25	12:32:06	12:45:09	00:01:22	-----	295-	52-	140-	72012
C3 (FM23)	12/05/25	12:34:13	12:47:22	00:02:12	-----	260-	50-	57-	71331
A2 (FM06)	12/05/25	12:45:20	12:57:34	00:10:12	-----	299-	32-	77-	75433
B7 (FM19)	12/05/25	12:45:47	12:58:36	00:01:01	-----	293-	43-	145-	72012
A1 (FM05)	12/05/25	12:59:12	13:11:32	00:12:20	00:00:35	300-	33-	81-	75432
C2 (FM22)	12/05/25	12:59:26	13:12:22	00:00:49	-----	267-	42-	57-	71331
B8 (FM20)	12/05/25	13:02:12	13:14:37	00:02:15	-----	290-	34-	153-	72012
A3 (FM07)	12/05/25	13:11:27	13:23:54	00:09:16	-----	302-	35-	84-	75433
B4 (FM16)	12/05/25	13:17:52	13:29:55	00:06:01	-----	288-	29-	158-	72012
A4 (FM08)	12/05/25	13:25:09	13:37:43	00:07:47	-----	302-	39-	88-	75434
C5 (FM25)	12/05/25	13:27:28	13:40:09	00:02:25	-----	277-	35-	60-	71332
B3 (FM15)	12/05/25	13:33:30	13:44:59	00:04:50	-----	284-	24-	165-	72012
A8 (FM12)	12/05/25	13:39:34	13:52:17	00:07:18	-----	303-	42-	94-	75434
B2 (FM14)	12/05/25	13:48:28	13:59:04	00:06:46	-----	279-	19-	173-	72012
A5 (FM09)	12/05/25	13:53:41	14:06:32	00:07:28	-----	303-	47-	97-	75434
C1 (FM21)	12/05/25	13:55:28	14:07:57	00:01:24	-----	284-	32-	61-	71332
B1 (FM13)	12/05/25	14:04:28	14:14:03	00:06:06	-----	274-	15-	182-	72012
A7 (FM11)	12/05/25	14:05:35	14:18:33	00:04:29	-----	303-	52-	103-	75434
G2 (FM04)	12/05/25	14:05:48	14:17:36	00:00:05	-----	124-	32-	352-	74246
C7 (FM27)	12/05/25	14:11:27	14:23:51	00:06:14	-----	289-	31-	65-	71332
C4 (FM24)	12/05/25	14:11:47	14:24:11	00:00:20	-----	288-	31-	65-	71332
A6 (FM10)	12/05/25	14:17:21	14:30:23	00:06:12	-----	303-	57-	106-	75434
B6 (FM18)	12/05/25	14:20:05	14:27:11	00:03:01	-----	262-	9-	200-	72013
C3 (FM23)	12/05/25	14:21:17	14:33:40	00:06:29	-----	290-	31-	67-	71332
A2 (FM06)	12/05/25	14:30:59	14:44:05	00:10:24	-----	302-	66-	111-	75434
B7 (FM19)	12/05/25	14:34:43	14:39:28	00:04:03	-----	250-	7-	214-	72013
A1 (FM05)	12/05/25	14:44:46	14:57:56	00:13:09	00:05:17	302-	76-	116-	75433

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C2 (FM22)	12/05/25	14:46:30	14:58:53	00:00:57	-----	295-	31-	70-	71332
A3 (FM07)	12/05/25	14:56:59	15:10:09	00:11:15	-----	301-	87-	121-	75434
A4 (FM08)	12/05/25	15:10:38	15:23:44	00:13:06	00:00:28	299-	76-	128-	75435
C5 (FM25)	12/05/25	15:14:24	15:26:56	00:03:12	-----	299-	33-	79-	71333
A8 (FM12)	12/05/25	15:25:02	15:38:04	00:11:07	-----	297-	64-	134-	75435
A5 (FM09)	12/05/25	15:39:11	15:52:05	00:12:54	00:01:06	296-	54-	139-	75435
C1 (FM21)	12/05/25	15:42:11	15:54:55	00:02:50	-----	301-	37-	85-	71333
G2 (FM04)	12/05/25	15:44:12	15:56:18	00:01:23	-----	181-	34-	320-	74247
A7 (FM11)	12/05/25	15:51:08	16:03:49	00:07:30	-----	293-	45-	144-	75435
C7 (FM27)	12/05/25	15:58:01	16:10:55	00:07:06	-----	302-	41-	92-	71333
C4 (FM24)	12/05/25	15:58:22	16:11:14	00:00:19	-----	302-	40-	91-	71333
A6 (FM10)	12/05/25	16:02:58	16:15:24	00:04:10	-----	292-	39-	149-	75435
C3 (FM23)	12/05/25	16:07:47	16:20:45	00:05:20	-----	303-	43-	94-	71333
A2 (FM06)	12/05/25	16:16:43	16:28:42	00:07:57	-----	289-	31-	156-	75435
A1 (FM05)	12/05/25	16:30:40	16:42:09	00:11:29	00:01:57	285-	26-	162-	75434
C2 (FM22)	12/05/25	16:32:47	16:45:57	00:03:48	-----	303-	52-	101-	71333
A3 (FM07)	12/05/25	16:43:04	16:54:00	00:08:02	-----	282-	21-	168-	75435
A4 (FM08)	12/05/25	16:57:05	17:06:54	00:09:49	00:03:04	277-	16-	179-	75436
C5 (FM25)	12/05/25	17:00:28	17:13:50	00:06:55	-----	302-	70-	113-	71334
A8 (FM12)	12/05/25	17:11:55	17:20:35	00:06:44	-----	270-	13-	187-	75436
A5 (FM09)	12/05/25	17:26:36	17:33:53	00:07:16	00:06:00	265-	10-	195-	75436
C1 (FM21)	12/05/25	17:28:08	17:41:31	00:07:38	-----	300-	88-	123-	71334
A7 (FM11)	12/05/25	17:39:24	17:44:33	00:03:02	-----	253-	7-	210-	75436
C7 (FM27)	12/05/25	17:43:57	17:57:16	00:12:42	-----	298-	71-	130-	71334
C4 (FM24)	12/05/25	17:44:17	17:57:37	00:00:21	-----	299-	74-	129-	71334
C3 (FM23)	12/05/25	17:53:41	18:06:56	00:09:19	-----	297-	64-	133-	71334
C2 (FM22)	12/05/25	18:18:45	18:31:40	00:12:54	00:11:48	294-	46-	144-	71334
C5 (FM25)	12/05/25	18:46:40	18:58:46	00:12:06	00:15:00	288-	30-	157-	71335
C1 (FM21)	12/05/25	19:14:44	19:25:34	00:10:49	00:15:58	281-	20-	172-	71335
C7 (FM27)	12/05/25	19:31:00	19:40:36	00:09:36	00:05:25	274-	15-	181-	71335
C4 (FM24)	12/05/25	19:31:14	19:41:05	00:00:29	-----	275-	16-	180-	71335
C3 (FM23)	12/05/25	19:40:59	19:49:51	00:08:45	-----	271-	13-	187-	71335
C2 (FM22)	12/05/25	20:07:17	20:13:00	00:05:42	00:17:26	259-	8-	204-	71335
D7 (FM35)	12/05/25	20:24:31	20:32:08	00:07:37	00:11:31	165-	10-	96-	65082
D8 (FM36)	12/05/25	20:43:40	20:53:42	00:10:02	00:11:31	182-	16-	85-	65082
D3 (FM31)	12/05/25	21:04:11	21:16:20	00:12:08	00:10:28	202-	31-	70-	65082
D2 (FM30)	12/05/25	21:25:41	21:38:08	00:12:26	00:09:21	207-	35-	68-	65082
D6 (FM34)	12/05/25	21:47:16	22:00:02	00:12:45	00:09:07	213-	43-	66-	65083
D7 (FM35)	12/05/25	22:06:48	22:19:55	00:13:06	00:06:46	222-	55-	64-	65083
D8 (FM36)	12/05/25	22:27:14	22:40:36	00:13:21	00:07:19	232-	77-	61-	65083
D3 (FM31)	12/05/25	22:49:10	23:02:31	00:13:20	00:08:34	248-	68-	58-	65083
D2 (FM30)	12/05/25	23:10:57	23:24:14	00:13:17	00:08:26	252-	61-	58-	65083
D6 (FM34)	12/05/25	23:32:51	23:46:03	00:13:12	00:08:36	256-	54-	57-	65084
D7 (FM35)	12/05/25	23:52:47	00:05:51	00:13:03	00:06:44	263-	47-	57-	65084
D8 (FM36)	12/05/26	00:13:40	00:26:32	00:12:51	00:07:49	271-	39-	57-	65084
D3 (FM31)	12/05/26	00:36:06	00:48:36	00:12:29	00:09:34	283-	33-	62-	65084
D2 (FM30)	12/05/26	00:57:57	01:10:23	00:12:26	00:09:20	285-	32-	63-	65084
D6 (FM34)	12/05/26	01:19:54	01:32:18	00:12:23	00:09:30	288-	31-	65-	65085
D7 (FM35)	12/05/26	01:39:53	01:52:15	00:12:22	00:07:34	292-	31-	68-	65085
D8 (FM36)	12/05/26	02:00:43	02:13:10	00:12:26	00:08:27	296-	31-	72-	65085

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D3 (FM31)	12/05/26	02:22:53	02:35:33	00:12:39	00:09:43	301-	36-	84-	65085
D2 (FM30)	12/05/26	02:44:39	02:57:24	00:12:45	00:09:05	302-	37-	87-	65085
D6 (FM34)	12/05/26	03:06:29	03:19:22	00:12:52	00:09:05	303-	40-	91-	65086
B6 (FM18)	12/05/26	03:12:45	03:20:02	00:00:40	-----	164-	10-	98-	72021
B7 (FM19)	12/05/26	03:25:28	03:34:16	00:08:47	00:05:26	173-	13-	89-	72021
D7 (FM35)	12/05/26	03:26:18	03:39:20	00:05:04	-----	303-	46-	97-	65086
B8 (FM20)	12/05/26	03:40:59	03:51:04	00:10:05	00:01:38	182-	17-	82-	72021
D8 (FM36)	12/05/26	03:46:56	04:00:12	00:09:08	-----	303-	57-	105-	65086
B4 (FM16)	12/05/26	03:56:04	04:06:53	00:06:40	-----	189-	20-	78-	72021
G2 (FM04)	12/05/26	04:02:38	04:14:24	00:07:31	-----	38-	34-	177-	74254
D3 (FM31)	12/05/26	04:08:51	04:22:15	00:07:50	-----	301-	87-	121-	65086
B3 (FM15)	12/05/26	04:11:00	04:22:35	00:00:20	-----	196-	25-	74-	72021
B2 (FM14)	12/05/26	04:25:18	04:37:28	00:12:09	00:02:42	202-	31-	70-	72021
D2 (FM30)	12/05/26	04:30:35	04:43:58	00:06:30	-----	300-	85-	125-	65086
B1 (FM13)	12/05/26	04:40:37	04:53:13	00:09:15	-----	209-	38-	68-	72021
D6 (FM34)	12/05/26	04:52:24	05:05:44	00:12:30	-----	298-	73-	130-	65087
B6 (FM18)	12/05/26	04:54:51	05:07:57	00:02:13	-----	220-	53-	64-	72022
B7 (FM19)	12/05/26	05:08:21	05:21:37	00:13:15	00:00:24	226-	63-	63-	72022
D7 (FM35)	12/05/26	05:12:14	05:25:23	00:03:46	-----	296-	57-	137-	65087
B8 (FM20)	12/05/26	05:24:36	05:37:56	00:12:33	-----	232-	77-	61-	72022
D8 (FM36)	12/05/26	05:32:57	05:45:42	00:07:45	-----	292-	40-	148-	65087
B4 (FM16)	12/05/26	05:40:07	05:53:30	00:07:48	-----	237-	87-	60-	72022
G2 (FM04)	12/05/26	05:41:19	05:52:49	00:00:04	-----	9-	31-	239-	74255
D3 (FM31)	12/05/26	05:55:21	06:06:32	00:11:10	00:02:32	283-	22-	169-	65087
B3 (FM15)	12/05/26	05:55:33	06:08:58	00:02:26	-----	242-	80-	59-	72022
B2 (FM14)	12/05/26	06:10:17	06:23:39	00:13:21	00:01:19	248-	68-	58-	72022
A5 (FM09)	12/05/26	06:17:03	06:22:45	00:00:05	-----	154-	8-	99-	75444
D2 (FM30)	12/05/26	06:17:16	06:27:53	00:05:08	-----	280-	19-	174-	65087
B1 (FM13)	12/05/26	06:26:00	06:39:17	00:11:23	-----	253-	59-	58-	72022
A7 (FM11)	12/05/26	06:27:51	06:35:30	00:03:04	-----	167-	10-	95-	75444
A6 (FM10)	12/05/26	06:38:57	06:47:41	00:08:43	00:03:27	174-	13-	89-	75444
D6 (FM34)	12/05/26	06:39:24	06:49:08	00:01:27	-----	275-	15-	181-	65088
B6 (FM18)	12/05/26	06:40:47	06:53:54	00:04:45	-----	262-	48-	58-	72023
A2 (FM06)	12/05/26	06:51:49	07:01:47	00:07:52	-----	183-	17-	82-	75444
B7 (FM19)	12/05/26	06:54:32	07:07:32	00:05:45	-----	266-	43-	58-	72023
D7 (FM35)	12/05/26	06:59:52	07:07:52	00:00:20	-----	267-	11-	194-	65088
A1 (FM05)	12/05/26	07:05:05	07:15:53	00:08:00	-----	190-	21-	77-	75443
B8 (FM20)	12/05/26	07:11:02	07:23:52	00:07:58	-----	271-	39-	58-	72023
A3 (FM07)	12/05/26	07:16:55	07:28:18	00:04:26	-----	197-	25-	74-	75444
D8 (FM36)	12/05/26	07:22:32	07:25:52	00:02:02	-----	250-	6-	215-	65088
B4 (FM16)	12/05/26	07:26:43	07:39:28	00:12:44	00:00:51	274-	37-	59-	72023
A4 (FM08)	12/05/26	07:30:07	07:42:06	00:02:38	-----	204-	32-	71-	75445
B3 (FM15)	12/05/26	07:42:20	07:54:58	00:12:38	00:00:14	279-	35-	60-	72023
A8 (FM12)	12/05/26	07:44:13	07:56:37	00:01:38	-----	210-	39-	67-	75445
B2 (FM14)	12/05/26	07:57:13	08:09:44	00:12:31	00:00:36	283-	33-	62-	72023
A5 (FM09)	12/05/26	07:58:07	08:10:49	00:01:04	-----	217-	47-	66-	75445
A7 (FM11)	12/05/26	08:09:53	08:22:45	00:11:56	-----	223-	57-	64-	75445
B1 (FM13)	12/05/26	08:13:01	08:25:28	00:02:43	-----	286-	32-	64-	72023
A6 (FM10)	12/05/26	08:21:33	08:34:32	00:09:03	-----	227-	65-	62-	75445
B6 (FM18)	12/05/26	08:27:52	08:40:17	00:05:44	-----	291-	31-	68-	72024

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A2 (FM06)	12/05/26	08:35:05	08:48:11	00:07:54	-----	233-	79-	61-	75445
B7 (FM19)	12/05/26	08:41:37	08:54:01	00:05:50	-----	294-	31-	70-	72024
A1 (FM05)	12/05/26	08:48:51	09:02:00	00:07:58	-----	238-	89-	60-	75444
B8 (FM20)	12/05/26	08:58:05	09:10:29	00:08:29	-----	296-	31-	74-	72024
C2 (FM22)	12/05/26	08:58:42	09:06:58	00:03:03	-----	170-	11-	91-	71343
A3 (FM07)	12/05/26	09:01:06	09:14:14	00:07:15	-----	243-	78-	59-	75445