

Orbcomm View Satellite Pass Times
 All Passes of All Satellites in Chronological Order
 Observer: Fukuoka, 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	08:52:09	09:05:34	00:13:25	11:52:09	230-	78-	59-	71909
D6 (FM34)	12/05/18	09:05:02	09:18:07	00:12:32	-----	297-	53-	141-	64975
B6 (FM18)	12/05/18	09:06:50	09:20:14	00:02:07	-----	240-	79-	56-	71910
B7 (FM19)	12/05/18	09:20:30	09:33:51	00:13:21	00:00:15	245-	68-	55-	71910
D7 (FM35)	12/05/18	09:25:01	09:37:43	00:03:52	-----	294-	40-	149-	64975
B8 (FM20)	12/05/18	09:36:53	09:50:06	00:12:22	-----	251-	57-	54-	71910
A7 (FM11)	12/05/18	09:41:31	09:46:43	00:03:02	-----	152-	7-	102-	75331
D8 (FM36)	12/05/18	09:45:54	09:57:48	00:11:05	-----	288-	27-	162-	64975
A6 (FM10)	12/05/18	09:52:21	09:59:17	00:01:28	-----	162-	9-	94-	75331
B4 (FM16)	12/05/18	09:52:31	10:05:40	00:06:22	-----	255-	50-	53-	71910
A2 (FM06)	12/05/18	10:04:55	10:13:40	00:08:00	-----	173-	13-	87-	75331
B3 (FM15)	12/05/18	10:08:14	10:21:14	00:07:33	-----	261-	44-	53-	71910
D3 (FM31)	12/05/18	10:08:42	10:17:57	00:03:01	-----	273-	14-	186-	64975
A1 (FM05)	12/05/18	10:17:57	10:27:49	00:09:51	-----	181-	16-	81-	75330
B2 (FM14)	12/05/18	10:22:58	10:35:46	00:07:56	-----	266-	38-	53-	71910
A3 (FM07)	12/05/18	10:29:32	10:40:12	00:04:26	-----	188-	20-	77-	75331
D2 (FM30)	12/05/18	10:30:51	10:39:07	00:01:05	-----	268-	11-	192-	64975
B1 (FM13)	12/05/18	10:38:47	10:51:24	00:12:17	-----	271-	35-	53-	71910
A4 (FM08)	12/05/18	10:42:44	10:54:17	00:02:52	-----	198-	26-	74-	75332
D6 (FM34)	12/05/18	10:53:21	10:59:52	00:05:34	-----	260-	9-	203-	64976
B6 (FM18)	12/05/18	10:53:48	11:06:08	00:06:16	-----	279-	30-	54-	71911
A8 (FM12)	12/05/18	10:56:50	11:08:55	00:02:46	-----	204-	33-	69-	75332
B7 (FM19)	12/05/18	11:07:39	11:19:48	00:10:53	-----	283-	28-	55-	71911
A5 (FM09)	12/05/18	11:10:36	11:23:03	00:03:14	-----	210-	40-	67-	75332
A7 (FM11)	12/05/18	11:22:20	11:35:03	00:12:00	-----	216-	48-	63-	75332
B8 (FM20)	12/05/18	11:24:11	11:36:09	00:01:06	-----	288-	26-	56-	71911
A6 (FM10)	12/05/18	11:34:00	11:46:53	00:10:43	-----	221-	56-	62-	75332
B4 (FM16)	12/05/18	11:39:54	11:51:48	00:04:55	-----	290-	26-	57-	71911
A2 (FM06)	12/05/18	11:47:32	12:00:35	00:08:47	-----	227-	70-	60-	75332
B3 (FM15)	12/05/18	11:55:40	12:07:30	00:06:55	-----	294-	25-	60-	71911
C5 (FM25)	12/05/18	11:57:07	11:59:14	00:08:01	-----	134-	5-	118-	71231
A1 (FM05)	12/05/18	12:01:11	12:14:19	00:13:07	00:01:57	233-	83-	58-	75331
B2 (FM14)	12/05/18	12:10:25	12:22:12	00:07:53	-----	297-	24-	62-	71911
A3 (FM07)	12/05/18	12:13:15	12:26:24	00:04:12	-----	238-	84-	56-	75332
C1 (FM21)	12/05/18	12:21:31	12:29:34	00:03:10	-----	166-	11-	95-	71231
B1 (FM13)	12/05/18	12:26:12	12:38:00	00:08:25	-----	300-	25-	65-	71911
A4 (FM08)	12/05/18	12:27:07	12:40:10	00:02:09	-----	245-	68-	54-	75333
C7 (FM27)	12/05/18	12:35:05	12:44:47	00:04:36	-----	178-	15-	83-	71231
C4 (FM24)	12/05/18	12:36:25	12:45:55	00:01:08	-----	176-	15-	84-	71231
B6 (FM18)	12/05/18	12:41:05	12:53:00	00:07:05	-----	303-	26-	70-	71912
A8 (FM12)	12/05/18	12:41:36	12:54:37	00:01:36	-----	250-	58-	54-	75333
C3 (FM23)	12/05/18	12:45:38	12:56:01	00:01:24	-----	183-	18-	79-	71231
B7 (FM19)	12/05/18	12:54:49	13:06:49	00:10:48	-----	305-	26-	74-	71912
A5 (FM09)	12/05/18	12:55:43	13:08:38	00:01:48	-----	255-	50-	52-	75333
A7 (FM11)	12/05/18	13:07:47	13:20:33	00:11:55	-----	260-	44-	53-	75333
C2 (FM22)	12/05/18	13:09:45	13:21:28	00:00:54	-----	197-	26-	74-	71231
B8 (FM20)	12/05/18	13:11:12	13:23:20	00:01:51	-----	306-	28-	78-	71912
A6 (FM10)	12/05/18	13:19:42	13:32:20	00:09:00	-----	264-	40-	52-	75333

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B4 (FM16)	12/05/18	13:26:47	13:39:05	00:06:44	-----	307-	30-	82-	71912
A2 (FM06)	12/05/18	13:33:33	13:46:00	00:06:55	-----	269-	36-	52-	75333
C5 (FM25)	12/05/18	13:36:43	13:49:28	00:03:28	-----	211-	41-	65-	71232
B3 (FM15)	12/05/18	13:42:23	13:54:52	00:05:23	-----	308-	32-	86-	71912
A1 (FM05)	12/05/18	13:47:26	13:59:43	00:04:50	-----	273-	33-	52-	75332
G2 (FM04)	12/05/18	13:48:26	13:58:13	00:01:02	-----	104-	17-	4-	74146
B2 (FM14)	12/05/18	13:56:58	14:09:38	00:11:24	-----	308-	36-	91-	71912
A3 (FM07)	12/05/18	13:59:43	14:11:50	00:02:12	-----	277-	30-	53-	75333
C1 (FM21)	12/05/18	14:04:02	14:17:15	00:05:24	-----	223-	62-	61-	71232
B1 (FM13)	12/05/18	14:12:35	14:25:27	00:08:11	-----	308-	40-	96-	71912
A4 (FM08)	12/05/18	14:13:48	14:25:40	00:00:13	-----	283-	27-	52-	75334
C7 (FM27)	12/05/18	14:18:30	14:31:51	00:06:10	-----	230-	78-	59-	71232
C4 (FM24)	12/05/18	14:19:43	14:33:03	00:01:12	-----	229-	76-	59-	71232
B6 (FM18)	12/05/18	14:27:15	14:40:22	00:07:19	-----	307-	50-	105-	71913
A8 (FM12)	12/05/18	14:28:26	14:40:12	00:00:01	-----	287-	26-	55-	75334
C3 (FM23)	12/05/18	14:29:26	14:42:50	00:02:37	-----	234-	87-	57-	71232
B7 (FM19)	12/05/18	14:40:52	14:54:06	00:11:16	-----	306-	57-	110-	71913
A5 (FM09)	12/05/18	14:42:38	14:54:19	00:00:13	-----	290-	25-	55-	75334
C2 (FM22)	12/05/18	14:54:27	15:07:48	00:13:21	00:00:07	244-	70-	55-	71232
A7 (FM11)	12/05/18	14:54:46	15:06:22	00:01:02	-----	294-	24-	58-	75334
B8 (FM20)	12/05/18	14:57:08	15:10:28	00:04:05	-----	305-	69-	116-	71913
A6 (FM10)	12/05/18	15:06:42	15:18:15	00:07:47	-----	296-	24-	60-	75334
B4 (FM16)	12/05/18	15:12:41	15:26:04	00:07:48	-----	304-	78-	120-	71913
A2 (FM06)	12/05/18	15:20:33	15:32:04	00:06:00	-----	299-	24-	63-	75334
C5 (FM25)	12/05/18	15:22:19	15:35:28	00:03:23	-----	255-	50-	53-	71233
G2 (FM04)	12/05/18	15:25:02	15:37:53	00:02:25	-----	163-	67-	331-	74147
B3 (FM15)	12/05/18	15:28:15	15:41:38	00:03:44	-----	303-	88-	126-	71913
A1 (FM05)	12/05/18	15:34:24	15:45:56	00:04:18	-----	301-	24-	65-	75333
B2 (FM14)	12/05/18	15:42:48	15:56:07	00:10:10	-----	301-	72-	132-	71913
A3 (FM07)	12/05/18	15:46:36	15:58:12	00:02:05	-----	303-	24-	68-	75334
C1 (FM21)	12/05/18	15:50:17	16:03:06	00:04:53	-----	265-	39-	51-	71233
B1 (FM13)	12/05/18	15:58:27	16:11:38	00:08:31	-----	298-	59-	138-	71913
A4 (FM08)	12/05/18	16:00:31	16:12:15	00:00:36	-----	305-	26-	71-	75335
C7 (FM27)	12/05/18	16:05:06	16:17:42	00:05:26	-----	271-	34-	53-	71233
C4 (FM24)	12/05/18	16:06:16	16:18:53	00:01:11	-----	271-	35-	53-	71233
B6 (FM18)	12/05/18	16:13:15	16:26:00	00:07:06	-----	294-	42-	148-	71914
A8 (FM12)	12/05/18	16:15:02	16:26:55	00:00:55	-----	307-	27-	77-	75335
C3 (FM23)	12/05/18	16:16:11	16:28:40	00:01:44	-----	274-	32-	53-	71233
B7 (FM19)	12/05/18	16:26:58	16:39:22	00:10:41	-----	291-	34-	154-	71914
A5 (FM09)	12/05/18	16:29:06	16:41:09	00:01:47	-----	307-	29-	79-	75335
A7 (FM11)	12/05/18	16:41:05	16:53:17	00:12:07	-----	308-	31-	85-	75335
C2 (FM22)	12/05/18	16:41:32	16:53:43	00:00:25	-----	282-	28-	53-	71233
B8 (FM20)	12/05/18	16:43:26	16:55:15	00:01:31	-----	287-	27-	162-	71914
A6 (FM10)	12/05/18	16:52:53	17:05:14	00:09:58	-----	308-	33-	88-	75335
B4 (FM16)	12/05/18	16:59:10	17:10:29	00:05:15	-----	284-	23-	168-	71914
A2 (FM06)	12/05/18	17:06:35	17:19:05	00:08:35	-----	308-	37-	93-	75335
C5 (FM25)	12/05/18	17:09:40	17:21:36	00:02:31	-----	290-	26-	57-	71234
B3 (FM15)	12/05/18	17:15:03	17:25:28	00:03:51	-----	279-	18-	176-	71914
A1 (FM05)	12/05/18	17:20:17	17:32:58	00:07:29	-----	308-	41-	97-	75334
B2 (FM14)	12/05/18	17:30:03	17:39:16	00:06:18	-----	273-	14-	186-	71914

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A3 (FM07)	12/05/18	17:32:22	17:45:12	00:05:56	-----	308-	46-	102-	75335
C1 (FM21)	12/05/18	17:37:43	17:49:30	00:04:18	-----	296-	24-	60-	71234
A4 (FM08)	12/05/18	17:46:08	17:59:09	00:09:38	-----	307-	55-	108-	75336
B1 (FM13)	12/05/18	17:46:18	17:53:58	00:05:01	-----	265-	10-	196-	71914
C7 (FM27)	12/05/18	17:52:30	18:04:18	00:10:20	-----	300-	25-	65-	71234
C4 (FM24)	12/05/18	17:53:40	18:05:28	00:01:09	-----	300-	24-	64-	71234
A8 (FM12)	12/05/18	18:00:33	18:13:41	00:08:13	-----	306-	65-	114-	75336
C3 (FM23)	12/05/18	18:03:33	18:15:22	00:01:40	-----	301-	25-	67-	71234
A5 (FM09)	12/05/18	18:14:34	18:27:46	00:12:24	-----	305-	75-	118-	75336
A7 (FM11)	12/05/18	18:26:30	18:39:43	00:11:56	-----	303-	87-	124-	75336
C2 (FM22)	12/05/18	18:28:43	18:40:42	00:00:58	-----	304-	26-	71-	71234
A6 (FM10)	12/05/18	18:38:17	18:51:29	00:10:47	-----	302-	82-	128-	75336
A2 (FM06)	12/05/18	18:51:59	19:05:03	00:13:04	00:00:29	300-	68-	134-	75336
C5 (FM25)	12/05/18	18:56:33	19:08:52	00:03:48	-----	307-	30-	82-	71235
A1 (FM05)	12/05/18	19:05:43	19:18:39	00:09:47	-----	298-	56-	140-	75335
A3 (FM07)	12/05/18	19:17:52	19:30:36	00:11:57	-----	296-	46-	145-	75336
C1 (FM21)	12/05/18	19:24:17	19:36:55	00:06:18	-----	308-	35-	89-	71235
A4 (FM08)	12/05/18	19:31:46	19:44:05	00:07:09	-----	292-	35-	154-	75337
C7 (FM27)	12/05/18	19:38:53	19:51:45	00:07:40	-----	308-	40-	96-	71235
C4 (FM24)	12/05/18	19:40:04	19:52:54	00:01:09	-----	308-	39-	95-	71235
A8 (FM12)	12/05/18	19:46:21	19:58:12	00:05:17	-----	288-	29-	159-	75337
C3 (FM23)	12/05/18	19:49:49	20:02:47	00:04:35	-----	308-	43-	99-	71235
A5 (FM09)	12/05/18	20:00:34	20:11:51	00:09:03	-----	285-	24-	166-	75337
A7 (FM11)	12/05/18	20:12:45	20:23:22	00:10:37	00:00:54	281-	19-	173-	75337
C2 (FM22)	12/05/18	20:14:47	20:28:00	00:04:37	-----	307-	55-	108-	71235
A6 (FM10)	12/05/18	20:24:48	20:34:42	00:06:41	-----	277-	16-	179-	75337
A2 (FM06)	12/05/18	20:38:59	20:47:32	00:08:32	00:04:17	270-	12-	190-	75337
C5 (FM25)	12/05/18	20:42:26	20:55:50	00:08:18	-----	304-	78-	120-	71236
A1 (FM05)	12/05/18	20:53:22	21:00:17	00:04:26	-----	261-	9-	201-	75336
A3 (FM07)	12/05/18	21:06:26	21:11:08	00:04:41	00:06:09	251-	7-	213-	75337
C1 (FM21)	12/05/18	21:10:07	21:23:26	00:12:18	-----	301-	75-	131-	71236
C7 (FM27)	12/05/18	21:24:46	21:37:57	00:13:11	00:01:19	298-	59-	138-	71236
C4 (FM24)	12/05/18	21:25:56	21:39:09	00:01:11	-----	299-	61-	137-	71236
C3 (FM23)	12/05/18	21:35:43	21:48:46	00:09:37	-----	297-	52-	142-	71236
C2 (FM22)	12/05/18	22:00:51	22:13:22	00:12:31	00:12:04	292-	36-	153-	71236
C5 (FM25)	12/05/18	22:28:55	22:40:15	00:11:19	00:15:33	284-	23-	168-	71237
C1 (FM21)	12/05/18	22:57:16	23:06:41	00:09:25	00:17:00	275-	14-	183-	71237
D3 (FM31)	12/05/18	23:01:37	23:08:41	00:02:00	-----	162-	9-	98-	64983
C7 (FM27)	12/05/18	23:12:36	23:20:18	00:07:42	00:03:55	265-	10-	196-	71237
C4 (FM24)	12/05/18	23:13:39	23:21:38	00:01:19	-----	267-	11-	194-	71237
D2 (FM30)	12/05/18	23:22:37	23:30:55	00:08:17	00:01:00	169-	12-	91-	64983
C3 (FM23)	12/05/18	23:24:05	23:30:26	00:00:02	-----	259-	8-	204-	71237
D6 (FM34)	12/05/18	23:43:38	23:53:13	00:09:35	00:13:11	178-	15-	84-	64984
D7 (FM35)	12/05/19	00:02:42	00:13:34	00:10:52	00:09:28	188-	20-	77-	64984
D8 (FM36)	12/05/19	00:22:32	00:34:37	00:12:05	00:08:57	199-	30-	71-	64984
D3 (FM31)	12/05/19	00:43:39	00:56:45	00:13:06	00:09:01	220-	56-	62-	64984
D2 (FM30)	12/05/19	01:05:18	01:18:32	00:13:14	00:08:32	224-	64-	60-	64984
D6 (FM34)	12/05/19	01:26:59	01:40:19	00:13:20	00:08:26	230-	77-	59-	64985
D7 (FM35)	12/05/19	01:46:49	02:00:13	00:13:23	00:06:29	237-	85-	57-	64985
D8 (FM36)	12/05/19	02:07:30	02:20:50	00:13:20	00:07:17	247-	64-	54-	64985

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D3 (FM31)	12/05/19	02:29:44	02:42:38	00:12:53	00:08:54	263-	41-	53-	64985
D2 (FM30)	12/05/19	02:51:37	03:04:23	00:12:46	00:08:58	266-	38-	52-	64985
D6 (FM34)	12/05/19	03:13:33	03:26:10	00:12:36	00:09:09	271-	35-	53-	64986
D7 (FM35)	12/05/19	03:33:42	03:46:04	00:12:22	00:07:31	277-	31-	53-	64986
G2 (FM04)	12/05/19	03:45:33	03:56:02	00:09:57	-----	47-	20-	161-	74154
D8 (FM36)	12/05/19	03:54:42	04:06:50	00:10:47	-----	284-	27-	53-	64986
D3 (FM31)	12/05/19	04:17:11	04:28:58	00:11:47	00:10:21	295-	25-	60-	64986
D2 (FM30)	12/05/19	04:39:03	04:50:50	00:11:46	00:10:04	297-	24-	62-	64986
D6 (FM34)	12/05/19	05:00:58	05:12:46	00:11:47	00:10:08	300-	24-	65-	64987
D7 (FM35)	12/05/19	05:21:02	05:32:52	00:11:50	00:08:16	303-	25-	69-	64987
G2 (FM04)	12/05/19	05:23:26	05:35:42	00:02:49	-----	14-	46-	225-	74155
D8 (FM36)	12/05/19	05:41:50	05:53:55	00:12:04	00:06:07	305-	27-	73-	64987
D3 (FM31)	12/05/19	06:03:50	06:16:22	00:12:32	00:09:55	308-	33-	88-	64987
B2 (FM14)	12/05/19	06:22:54	06:30:01	00:07:07	00:06:31	162-	9-	98-	71922
D2 (FM30)	12/05/19	06:25:36	06:38:16	00:08:14	-----	308-	36-	91-	64987
B1 (FM13)	12/05/19	06:37:30	06:46:21	00:08:05	-----	173-	13-	88-	71922
D6 (FM34)	12/05/19	06:47:22	07:00:13	00:12:50	00:01:01	308-	40-	96-	64988
B6 (FM18)	12/05/19	06:51:00	07:01:44	00:01:31	-----	187-	19-	78-	71923
B7 (FM19)	12/05/19	07:04:09	07:15:37	00:11:27	00:02:25	194-	24-	74-	71923
G2 (FM04)	12/05/19	07:05:33	07:08:25	00:07:01	-----	325-	6-	300-	74156
D7 (FM35)	12/05/19	07:07:14	07:20:17	00:11:51	-----	308-	46-	102-	64988
B8 (FM20)	12/05/19	07:20:02	07:32:06	00:11:49	-----	200-	30-	69-	71923
D8 (FM36)	12/05/19	07:27:50	07:41:09	00:09:02	-----	306-	61-	111-	64988
B4 (FM16)	12/05/19	07:35:19	07:47:47	00:06:37	-----	205-	36-	67-	71923
D3 (FM31)	12/05/19	07:49:41	08:03:03	00:13:22	00:01:54	302-	82-	128-	64988
B3 (FM15)	12/05/19	07:50:36	08:03:27	00:00:23	-----	213-	44-	64-	71923
B2 (FM14)	12/05/19	08:04:57	08:18:05	00:13:07	00:01:30	220-	56-	62-	71923
D2 (FM30)	12/05/19	08:11:26	08:24:45	00:06:40	-----	301-	73-	132-	64988
B1 (FM13)	12/05/19	08:20:26	08:33:45	00:08:59	-----	226-	68-	60-	71923
D6 (FM34)	12/05/19	08:33:14	08:46:27	00:12:41	-----	299-	61-	137-	64989
B6 (FM18)	12/05/19	08:35:01	08:48:26	00:01:59	-----	236-	88-	57-	71924
B7 (FM19)	12/05/19	08:48:39	09:02:03	00:13:23	00:00:13	241-	76-	56-	71924
D7 (FM35)	12/05/19	08:53:11	09:06:06	00:04:02	-----	296-	46-	145-	64989
B8 (FM20)	12/05/19	09:05:01	09:18:19	00:12:12	-----	247-	63-	54-	71924
D8 (FM36)	12/05/19	09:14:00	09:26:16	00:07:57	-----	290-	32-	157-	64989
B4 (FM16)	12/05/19	09:20:38	09:33:52	00:07:35	-----	252-	56-	54-	71924
A2 (FM06)	12/05/19	09:28:31	09:35:24	00:01:32	-----	162-	9-	99-	75345
B3 (FM15)	12/05/19	09:36:19	09:49:25	00:13:05	00:00:54	257-	48-	53-	71924
D3 (FM31)	12/05/19	09:36:37	09:46:40	00:02:04	-----	277-	16-	180-	64989
A1 (FM05)	12/05/19	09:41:16	09:49:48	00:03:07	-----	172-	12-	89-	75344
B2 (FM14)	12/05/19	09:51:03	10:03:58	00:12:54	00:01:15	263-	42-	53-	71924
A3 (FM07)	12/05/19	09:52:43	10:02:20	00:01:03	-----	179-	15-	83-	75345
D2 (FM30)	12/05/19	09:58:40	10:07:55	00:05:35	-----	273-	14-	186-	64989
A4 (FM08)	12/05/19	10:05:45	10:16:31	00:08:35	-----	190-	21-	79-	75346
B1 (FM13)	12/05/19	10:06:50	10:19:36	00:03:04	-----	268-	37-	53-	71924
A8 (FM12)	12/05/19	10:19:43	10:31:12	00:11:29	00:00:07	197-	26-	72-	75346
D6 (FM34)	12/05/19	10:21:00	10:28:53	00:02:01	-----	266-	11-	195-	64990
B6 (FM18)	12/05/19	10:21:51	10:34:18	00:05:24	-----	276-	32-	53-	71925
A5 (FM09)	12/05/19	10:33:26	10:45:24	00:11:06	-----	202-	31-	70-	75346
B7 (FM19)	12/05/19	10:35:41	10:47:57	00:02:33	-----	280-	29-	54-	71925

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D7 (FM35)	12/05/19	10:42:09	10:47:03	00:00:05	-----	251-	7-	214-	64990
A7 (FM11)	12/05/19	10:45:06	10:57:27	00:10:23	-----	208-	38-	66-	75346
B8 (FM20)	12/05/19	10:52:14	11:04:18	00:06:50	-----	285-	27-	55-	71925
A6 (FM10)	12/05/19	10:56:43	11:09:18	00:05:00	-----	213-	45-	64-	75346
B4 (FM16)	12/05/19	11:07:57	11:19:56	00:10:37	-----	288-	26-	56-	71925
A2 (FM06)	12/05/19	11:10:09	11:23:02	00:03:06	-----	220-	56-	62-	75346
B3 (FM15)	12/05/19	11:23:43	11:35:36	00:11:53	00:00:40	292-	25-	58-	71925
A1 (FM05)	12/05/19	11:23:45	11:36:47	00:01:11	-----	226-	68-	60-	75345
A3 (FM07)	12/05/19	11:35:48	11:48:55	00:12:07	-----	231-	80-	58-	75346
B2 (FM14)	12/05/19	11:38:30	11:50:18	00:01:22	-----	295-	25-	60-	71925
A4 (FM08)	12/05/19	11:49:34	12:02:40	00:12:22	-----	239-	82-	56-	75347
C1 (FM21)	12/05/19	11:50:23	11:57:03	00:05:03	-----	161-	9-	97-	71245
B1 (FM13)	12/05/19	11:54:17	12:06:05	00:09:01	-----	298-	24-	63-	71925
C7 (FM27)	12/05/19	12:03:51	12:12:39	00:06:33	-----	172-	13-	88-	71245
A8 (FM12)	12/05/19	12:04:01	12:17:07	00:04:27	-----	244-	69-	55-	75347
C4 (FM24)	12/05/19	12:05:06	12:13:38	00:03:02	-----	171-	12-	90-	71245
B6 (FM18)	12/05/19	12:09:12	12:21:03	00:07:25	-----	302-	25-	68-	71926
C3 (FM23)	12/05/19	12:14:10	12:23:48	00:02:44	-----	178-	15-	83-	71245
A5 (FM09)	12/05/19	12:18:06	12:31:09	00:07:20	-----	249-	60-	53-	75347
B7 (FM19)	12/05/19	12:22:56	12:34:52	00:03:43	-----	304-	26-	71-	71926
A7 (FM11)	12/05/19	12:30:08	12:43:03	00:08:11	-----	254-	52-	53-	75347
C2 (FM22)	12/05/19	12:38:07	12:49:22	00:06:18	-----	192-	22-	77-	71245
B8 (FM20)	12/05/19	12:39:20	12:51:23	00:02:00	-----	306-	27-	75-	71926
A6 (FM10)	12/05/19	12:42:01	12:54:50	00:03:27	-----	258-	47-	53-	75347
B4 (FM16)	12/05/19	12:54:56	13:07:07	00:12:11	00:00:06	307-	28-	79-	71926
A2 (FM06)	12/05/19	12:55:50	13:08:29	00:01:21	-----	263-	41-	52-	75347
C5 (FM25)	12/05/19	13:04:59	13:17:27	00:08:58	-----	205-	36-	67-	71246
A1 (FM05)	12/05/19	13:09:43	13:22:12	00:04:45	-----	268-	36-	52-	75346
B3 (FM15)	12/05/19	13:10:32	13:22:54	00:00:42	-----	307-	31-	83-	71926
A3 (FM07)	12/05/19	13:22:00	13:34:19	00:11:25	-----	272-	33-	52-	75347
G2 (FM04)	12/05/19	13:24:58	13:31:37	00:02:04	-----	82-	9-	17-	74160
B2 (FM14)	12/05/19	13:25:09	13:37:41	00:06:04	-----	308-	34-	88-	71926
C1 (FM21)	12/05/19	13:32:12	13:45:17	00:07:35	-----	219-	54-	63-	71246
A4 (FM08)	12/05/19	13:36:03	13:48:06	00:02:49	-----	278-	30-	51-	75348
B1 (FM13)	12/05/19	13:40:47	13:53:31	00:05:24	-----	308-	37-	93-	71926
C7 (FM27)	12/05/19	13:46:47	14:00:04	00:06:32	-----	226-	68-	60-	71246
C4 (FM24)	12/05/19	13:47:53	14:01:09	00:01:05	-----	225-	66-	60-	71246
A8 (FM12)	12/05/19	13:50:41	14:02:37	00:01:27	-----	283-	28-	54-	75348
B6 (FM18)	12/05/19	13:55:27	14:08:28	00:05:51	-----	308-	45-	101-	71927
C3 (FM23)	12/05/19	13:57:32	14:10:53	00:02:24	-----	230-	77-	59-	71246
A5 (FM09)	12/05/19	14:04:55	14:16:43	00:05:50	-----	286-	26-	53-	75348
B7 (FM19)	12/05/19	14:09:04	14:22:13	00:05:29	-----	307-	52-	106-	71927
A7 (FM11)	12/05/19	14:17:03	14:28:44	00:06:30	-----	290-	25-	56-	75348
C2 (FM22)	12/05/19	14:22:29	14:35:52	00:07:07	-----	240-	79-	56-	71246
B8 (FM20)	12/05/19	14:25:20	14:38:36	00:02:44	-----	306-	61-	112-	71927
A6 (FM10)	12/05/19	14:28:59	14:40:36	00:01:59	-----	292-	25-	58-	75348
B4 (FM16)	12/05/19	14:40:53	14:54:14	00:13:21	00:00:16	305-	70-	116-	71927
A2 (FM06)	12/05/19	14:42:51	14:54:23	00:00:08	-----	296-	24-	60-	75348
C5 (FM25)	12/05/19	14:50:17	15:03:32	00:09:09	-----	252-	56-	54-	71247
B3 (FM15)	12/05/19	14:56:25	15:09:49	00:06:17	-----	304-	83-	122-	71927

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A1 (FM05)	12/05/19	14:56:44	15:08:15	00:01:03	-----	299-	24-	62-	75347
G2 (FM04)	12/05/19	14:59:37	15:12:25	00:04:10	-----	146-	66-	341-	74161
A3 (FM07)	12/05/19	15:08:58	15:20:31	00:08:05	-----	301-	24-	65-	75348
B2 (FM14)	12/05/19	15:11:00	15:24:21	00:03:50	-----	302-	82-	128-	71927
C1 (FM21)	12/05/19	15:18:14	15:31:10	00:06:48	-----	262-	42-	52-	71247
A4 (FM08)	12/05/19	15:22:55	15:34:31	00:03:20	-----	303-	25-	67-	75349
B1 (FM13)	12/05/19	15:26:38	15:39:55	00:05:24	-----	300-	68-	134-	71927
C7 (FM27)	12/05/19	15:33:11	15:45:55	00:06:00	-----	268-	37-	53-	71247
C4 (FM24)	12/05/19	15:34:14	15:47:00	00:01:04	-----	267-	38-	53-	71247
A8 (FM12)	12/05/19	15:37:26	15:49:10	00:02:10	-----	305-	26-	73-	75349
B6 (FM18)	12/05/19	15:41:23	15:54:20	00:05:09	-----	296-	48-	144-	71928
C3 (FM23)	12/05/19	15:44:06	15:56:43	00:02:22	-----	271-	35-	53-	71247
A5 (FM09)	12/05/19	15:51:33	16:03:25	00:06:42	-----	306-	27-	74-	75349
B7 (FM19)	12/05/19	15:55:05	16:07:45	00:04:20	-----	293-	40-	150-	71928
A7 (FM11)	12/05/19	16:03:32	16:15:33	00:07:47	-----	307-	28-	80-	75349
C2 (FM22)	12/05/19	16:09:26	16:21:45	00:06:11	-----	279-	30-	52-	71247
B8 (FM20)	12/05/19	16:11:31	16:23:42	00:01:57	-----	290-	31-	157-	71928
A6 (FM10)	12/05/19	16:15:21	16:27:29	00:03:46	-----	308-	30-	83-	75349
B4 (FM16)	12/05/19	16:27:12	16:39:00	00:11:30	-----	287-	26-	163-	71928
A2 (FM06)	12/05/19	16:29:03	16:41:21	00:02:21	-----	308-	33-	88-	75349
C5 (FM25)	12/05/19	16:37:35	16:49:35	00:08:14	-----	288-	26-	56-	71248
G2 (FM04)	12/05/19	16:40:22	16:49:35	00:00:00	-----	210-	14-	301-	74162
A1 (FM05)	12/05/19	16:42:47	16:55:16	00:05:40	-----	308-	36-	92-	75348
B3 (FM15)	12/05/19	16:43:00	16:54:03	00:01:01	-----	283-	21-	170-	71928
A3 (FM07)	12/05/19	16:54:53	17:07:32	00:12:38	00:00:50	308-	40-	96-	75349
B2 (FM14)	12/05/19	16:57:57	17:07:57	00:00:25	-----	277-	16-	180-	71928
C1 (FM21)	12/05/19	17:05:39	17:17:28	00:09:30	-----	294-	25-	58-	71248
A4 (FM08)	12/05/19	17:08:38	17:21:30	00:04:02	-----	308-	47-	102-	75350
B1 (FM13)	12/05/19	17:14:03	17:22:49	00:01:19	-----	271-	13-	189-	71928
C7 (FM27)	12/05/19	17:20:38	17:32:25	00:09:35	-----	298-	24-	63-	71248
C4 (FM24)	12/05/19	17:21:40	17:33:27	00:01:02	-----	298-	24-	63-	71248
A8 (FM12)	12/05/19	17:23:04	17:36:04	00:02:36	-----	307-	54-	108-	75350
B6 (FM18)	12/05/19	17:30:09	17:35:33	00:00:03	-----	254-	7-	210-	71929
C3 (FM23)	12/05/19	17:31:30	17:43:18	00:07:45	-----	300-	25-	65-	71248
A5 (FM09)	12/05/19	17:37:05	17:50:12	00:06:54	-----	306-	63-	112-	75350
A7 (FM11)	12/05/19	17:49:00	18:02:11	00:11:58	-----	305-	73-	118-	75350
C2 (FM22)	12/05/19	17:56:43	18:08:37	00:06:25	-----	303-	25-	68-	71248
A6 (FM10)	12/05/19	18:00:47	18:14:00	00:05:22	-----	304-	82-	122-	75350
A2 (FM06)	12/05/19	18:14:27	18:27:36	00:13:09	00:00:27	302-	83-	128-	75350
C5 (FM25)	12/05/19	18:24:34	18:36:46	00:09:09	-----	307-	28-	79-	71249
A1 (FM05)	12/05/19	18:28:11	18:41:16	00:04:30	-----	300-	69-	133-	75349
A3 (FM07)	12/05/19	18:40:19	18:53:18	00:12:01	-----	298-	58-	138-	75350
C1 (FM21)	12/05/19	18:52:20	19:04:50	00:11:32	-----	308-	33-	86-	71249
A4 (FM08)	12/05/19	18:54:09	19:06:50	00:02:00	-----	295-	45-	147-	75351
C7 (FM27)	12/05/19	19:07:07	19:19:51	00:12:44	00:00:16	308-	37-	93-	71249
C4 (FM24)	12/05/19	19:08:11	19:20:53	00:01:01	-----	308-	36-	92-	71249
A8 (FM12)	12/05/19	19:08:41	19:21:02	00:00:09	-----	292-	36-	152-	75351
C3 (FM23)	12/05/19	19:17:53	19:30:44	00:09:41	-----	308-	40-	96-	71249
A5 (FM09)	12/05/19	19:22:51	19:34:48	00:04:04	-----	289-	30-	159-	75351
A7 (FM11)	12/05/19	19:34:57	19:46:22	00:11:24	00:00:09	286-	24-	164-	75351

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C2 (FM22)	12/05/19	19:42:51	19:55:59	00:09:36	-----	307-	50-	104-	71249
A6 (FM10)	12/05/19	19:46:56	19:57:48	00:01:49	-----	282-	21-	170-	75351
A2 (FM06)	12/05/19	20:00:57	20:10:50	00:09:53	00:03:08	277-	16-	180-	75351
C5 (FM25)	12/05/19	20:10:30	20:23:52	00:13:02	-----	305-	70-	116-	71250
A1 (FM05)	12/05/19	20:15:07	20:23:51	00:00:00	-----	271-	13-	188-	75350
A3 (FM07)	12/05/19	20:27:47	20:35:10	00:07:22	00:03:55	264-	10-	197-	75351
C1 (FM21)	12/05/19	20:38:10	20:51:32	00:13:22	00:03:00	302-	85-	127-	71250
A4 (FM08)	12/05/19	20:43:01	20:47:03	00:04:02	-----	252-	6-	214-	75352
C7 (FM27)	12/05/19	20:52:58	21:06:16	00:13:17	00:05:54	300-	68-	134-	71250
C4 (FM24)	12/05/19	20:54:01	21:07:20	00:01:04	-----	300-	70-	133-	71250
C3 (FM23)	12/05/19	21:03:44	21:16:56	00:09:36	-----	299-	60-	137-	71250
C2 (FM22)	12/05/19	21:28:50	21:41:36	00:12:46	00:11:53	294-	42-	149-	71250
C5 (FM25)	12/05/19	21:56:49	22:08:36	00:11:46	00:15:13	287-	26-	162-	71251
C1 (FM21)	12/05/19	22:25:02	22:35:15	00:10:13	00:16:25	279-	17-	178-	71251
D3 (FM31)	12/05/19	22:30:51	22:36:09	00:00:54	-----	155-	7-	103-	64997
C7 (FM27)	12/05/19	22:40:23	22:49:10	00:08:47	00:04:13	271-	13-	188-	71251
C4 (FM24)	12/05/19	22:41:20	22:50:21	00:01:10	-----	272-	13-	186-	71251
C3 (FM23)	12/05/19	22:51:32	22:59:19	00:07:47	00:01:11	266-	10-	195-	71251
D2 (FM30)	12/05/19	22:51:34	22:58:39	00:00:03	-----	162-	9-	98-	64997
D6 (FM34)	12/05/19	23:12:24	23:21:04	00:08:39	00:13:44	172-	12-	89-	64998
C2 (FM22)	12/05/19	23:18:47	23:21:29	00:00:24	-----	248-	6-	218-	71251
D7 (FM35)	12/05/19	23:31:19	23:41:34	00:10:14	00:09:50	183-	17-	80-	64998
D8 (FM36)	12/05/19	23:51:01	00:02:42	00:11:41	00:09:27	194-	26-	74-	64998
D3 (FM31)	12/05/20	00:12:00	00:24:56	00:12:57	00:09:16	216-	48-	64-	64998
D2 (FM30)	12/05/20	00:33:37	00:46:44	00:13:07	00:08:40	220-	56-	62-	64998
D6 (FM34)	12/05/20	00:55:16	01:08:32	00:13:16	00:08:32	226-	67-	60-	64999
D7 (FM35)	12/05/20	01:15:03	01:28:26	00:13:22	00:06:30	233-	85-	58-	64999
D8 (FM36)	12/05/20	01:35:41	01:49:04	00:13:23	00:07:15	243-	71-	55-	64999
D3 (FM31)	12/05/20	01:57:51	02:10:52	00:13:00	00:08:47	259-	45-	53-	64999
D2 (FM30)	12/05/20	02:19:43	02:32:36	00:12:53	00:08:50	263-	41-	53-	64999
D6 (FM34)	12/05/20	02:41:39	02:54:23	00:12:44	00:09:02	268-	37-	53-	65000
D7 (FM35)	12/05/20	03:01:46	03:14:16	00:12:30	00:07:22	274-	33-	53-	65000
G2 (FM04)	12/05/20	03:21:36	03:28:33	00:06:56	00:07:19	68-	10-	137-	74168
D8 (FM36)	12/05/20	03:22:46	03:35:00	00:06:26	-----	281-	29-	53-	65000
D3 (FM31)	12/05/20	03:45:17	03:57:06	00:11:49	00:10:17	293-	25-	59-	65000
D2 (FM30)	12/05/20	04:07:09	04:18:57	00:11:47	00:10:03	295-	25-	60-	65000
D6 (FM34)	12/05/20	04:29:05	04:40:52	00:11:46	00:10:08	298-	24-	63-	65001
D7 (FM35)	12/05/20	04:49:09	05:00:57	00:11:47	00:08:17	301-	25-	66-	65001
G2 (FM04)	12/05/20	04:57:49	05:10:31	00:09:33	-----	23-	87-	207-	74169
D8 (FM36)	12/05/20	05:09:59	05:21:58	00:11:27	-----	304-	26-	71-	65001
D3 (FM31)	12/05/20	05:32:03	05:44:27	00:12:24	00:10:04	308-	31-	85-	65001
B2 (FM14)	12/05/20	05:52:06	05:57:29	00:05:23	00:07:38	156-	7-	103-	71936
D2 (FM30)	12/05/20	05:53:48	06:06:21	00:08:51	-----	308-	33-	88-	65001
B1 (FM13)	12/05/20	06:06:21	06:14:06	00:07:45	-----	166-	10-	95-	71936
D6 (FM34)	12/05/20	06:15:35	06:28:19	00:12:43	00:01:29	308-	37-	92-	65002
B6 (FM18)	12/05/20	06:19:37	06:29:41	00:01:21	-----	181-	16-	81-	71937
B7 (FM19)	12/05/20	06:32:41	06:43:37	00:10:56	00:03:00	189-	20-	77-	71937
D7 (FM35)	12/05/20	06:35:28	06:48:24	00:04:46	-----	308-	42-	99-	65002
G2 (FM04)	12/05/20	06:38:05	06:46:08	00:02:01	-----	350-	12-	273-	74170
B8 (FM20)	12/05/20	06:48:29	07:00:10	00:11:41	00:02:21	194-	26-	72-	71937

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D8 (FM36)	12/05/20	06:56:04	07:09:18	00:09:07	-----	307-	54-	107-	65002
B4 (FM16)	12/05/20	07:03:44	07:15:53	00:06:34	-----	200-	31-	69-	71937
D3 (FM31)	12/05/20	07:17:54	07:31:17	00:13:23	00:02:01	303-	88-	124-	65002
B3 (FM15)	12/05/20	07:18:56	07:31:33	00:00:15	-----	208-	38-	66-	71937
B2 (FM14)	12/05/20	07:33:16	07:46:14	00:12:58	00:01:42	216-	48-	64-	71937
D2 (FM30)	12/05/20	07:39:39	07:53:01	00:06:47	-----	302-	82-	128-	65002
B1 (FM13)	12/05/20	07:48:43	08:01:55	00:08:54	-----	222-	60-	61-	71937
D6 (FM34)	12/05/20	08:01:26	08:14:45	00:12:49	-----	300-	69-	133-	65003
B6 (FM18)	12/05/20	08:03:13	08:16:37	00:01:52	-----	232-	82-	58-	71938
B7 (FM19)	12/05/20	08:16:50	08:30:15	00:13:24	00:00:12	237-	85-	57-	71938
D7 (FM35)	12/05/20	08:21:21	08:34:26	00:04:11	-----	297-	54-	141-	65003
B8 (FM20)	12/05/20	08:33:10	08:46:31	00:12:04	-----	244-	71-	55-	71938
D8 (FM36)	12/05/20	08:42:07	08:54:42	00:08:11	-----	293-	37-	153-	65003
B4 (FM16)	12/05/20	08:48:46	09:02:04	00:07:22	-----	248-	62-	54-	71938
B3 (FM15)	12/05/20	09:04:24	09:17:36	00:13:11	00:02:20	254-	53-	53-	71938
D3 (FM31)	12/05/20	09:04:36	09:15:19	00:02:01	-----	281-	19-	174-	65003
A1 (FM05)	12/05/20	09:04:54	09:11:29	00:03:04	-----	160-	9-	100-	75358
A3 (FM07)	12/05/20	09:16:06	09:24:17	00:08:10	00:04:36	170-	11-	92-	75359
B2 (FM14)	12/05/20	09:19:08	09:32:10	00:07:53	-----	259-	45-	53-	71938
D2 (FM30)	12/05/20	09:26:35	09:36:38	00:04:28	-----	277-	16-	180-	65003
A4 (FM08)	12/05/20	09:28:53	09:38:39	00:02:00	-----	181-	16-	85-	75360
B1 (FM13)	12/05/20	09:34:55	09:47:47	00:09:08	-----	265-	40-	53-	71938
A8 (FM12)	12/05/20	09:42:43	09:53:26	00:05:38	-----	189-	20-	77-	75360
D6 (FM34)	12/05/20	09:48:47	09:57:43	00:04:17	-----	271-	13-	187-	65004
B6 (FM18)	12/05/20	09:49:54	10:02:28	00:04:44	-----	273-	34-	53-	71939
A5 (FM09)	12/05/20	09:56:20	10:07:43	00:05:14	-----	196-	25-	75-	75360
B7 (FM19)	12/05/20	10:03:43	10:16:07	00:08:24	-----	277-	31-	53-	71939
A7 (FM11)	12/05/20	10:07:56	10:19:48	00:03:40	-----	200-	30-	69-	75360
D7 (FM35)	12/05/20	10:09:34	10:16:17	00:03:03	-----	260-	9-	203-	65004
A6 (FM10)	12/05/20	10:19:29	10:31:41	00:12:12	00:03:11	205-	35-	67-	75360
B8 (FM20)	12/05/20	10:20:16	10:32:27	00:00:45	-----	282-	28-	54-	71939
A2 (FM06)	12/05/20	10:32:51	10:45:27	00:12:35	00:00:24	213-	44-	64-	75360
B4 (FM16)	12/05/20	10:36:00	10:48:04	00:02:37	-----	285-	27-	55-	71939
A1 (FM05)	12/05/20	10:46:23	10:59:15	00:11:10	-----	220-	54-	62-	75359
B3 (FM15)	12/05/20	10:51:45	11:03:42	00:04:27	-----	289-	26-	57-	71939
A3 (FM07)	12/05/20	10:58:24	11:11:25	00:07:42	-----	225-	65-	60-	75360
B2 (FM14)	12/05/20	11:06:34	11:18:24	00:07:00	-----	293-	25-	59-	71939
A4 (FM08)	12/05/20	11:12:05	11:25:09	00:06:45	-----	232-	83-	58-	75361
B1 (FM13)	12/05/20	11:22:22	11:34:11	00:09:01	-----	296-	25-	61-	71939
A8 (FM12)	12/05/20	11:26:29	11:39:36	00:05:25	-----	238-	83-	56-	75361
C7 (FM27)	12/05/20	11:32:44	11:40:27	00:00:50	-----	166-	10-	95-	71259
C4 (FM24)	12/05/20	11:33:54	11:41:17	00:00:50	-----	164-	10-	97-	71259
B6 (FM18)	12/05/20	11:37:18	11:49:07	00:07:49	-----	301-	25-	66-	71940
A5 (FM09)	12/05/20	11:40:32	11:53:39	00:04:32	-----	243-	72-	55-	75361
C3 (FM23)	12/05/20	11:42:46	11:51:29	00:02:01	-----	172-	12-	89-	71259
B7 (FM19)	12/05/20	11:51:03	12:02:55	00:11:25	-----	303-	25-	69-	71940
A7 (FM11)	12/05/20	11:52:32	12:05:34	00:02:38	-----	248-	61-	54-	75361
A6 (FM10)	12/05/20	12:04:23	12:17:20	00:11:46	-----	252-	55-	53-	75361
C2 (FM22)	12/05/20	12:06:33	12:17:13	00:00:06	-----	186-	19-	80-	71259
B8 (FM20)	12/05/20	12:07:28	12:19:25	00:02:11	-----	305-	26-	73-	71940

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A2 (FM06)	12/05/20	12:18:10	12:30:59	00:11:33	-----	258-	47-	53-	75361
B4 (FM16)	12/05/20	12:23:05	12:35:10	00:04:11	-----	306-	27-	76-	71940
A1 (FM05)	12/05/20	12:32:02	12:44:42	00:09:32	-----	263-	41-	52-	75360
C5 (FM25)	12/05/20	12:33:16	12:45:25	00:00:42	-----	200-	31-	69-	71260
B3 (FM15)	12/05/20	12:38:41	12:50:56	00:05:31	-----	307-	29-	80-	71940
A3 (FM07)	12/05/20	12:44:19	12:56:50	00:05:53	-----	267-	37-	52-	75361
B2 (FM14)	12/05/20	12:53:20	13:05:45	00:08:55	-----	308-	32-	85-	71940
A4 (FM08)	12/05/20	12:58:20	13:10:34	00:04:49	-----	273-	33-	51-	75362
C1 (FM21)	12/05/20	13:00:24	13:13:18	00:02:44	-----	214-	46-	64-	71260
B1 (FM13)	12/05/20	13:08:58	13:21:35	00:08:17	-----	308-	35-	90-	71940
A8 (FM12)	12/05/20	13:12:57	13:25:03	00:03:27	-----	278-	30-	53-	75362
C7 (FM27)	12/05/20	13:15:06	13:28:16	00:03:13	-----	222-	60-	61-	71260
C4 (FM24)	12/05/20	13:16:05	13:29:14	00:00:57	-----	221-	57-	62-	71260
B6 (FM18)	12/05/20	13:23:38	13:36:33	00:07:19	-----	308-	42-	98-	71941
C3 (FM23)	12/05/20	13:25:39	13:38:55	00:02:22	-----	226-	68-	60-	71260
A5 (FM09)	12/05/20	13:27:11	13:39:09	00:00:13	-----	281-	28-	52-	75362
B7 (FM19)	12/05/20	13:37:16	13:50:19	00:11:10	-----	307-	47-	102-	71941
A7 (FM11)	12/05/20	13:39:19	13:51:08	00:00:48	-----	286-	27-	55-	75362
C2 (FM22)	12/05/20	13:50:32	14:03:55	00:12:47	-----	236-	88-	57-	71260
A6 (FM10)	12/05/20	13:51:15	14:02:58	00:00:05	-----	289-	26-	56-	75362
B8 (FM20)	12/05/20	13:53:33	14:06:44	00:03:46	-----	307-	55-	108-	71941
A2 (FM06)	12/05/20	14:05:07	14:16:43	00:09:59	-----	292-	25-	57-	75362
B4 (FM16)	12/05/20	14:09:05	14:22:23	00:05:39	-----	306-	62-	112-	71941
C5 (FM25)	12/05/20	14:18:17	14:31:36	00:09:13	-----	248-	62-	54-	71261
A1 (FM05)	12/05/20	14:19:02	14:30:35	00:01:01	-----	295-	24-	59-	75361
B3 (FM15)	12/05/20	14:24:36	14:37:59	00:07:24	-----	305-	74-	118-	71941
A3 (FM07)	12/05/20	14:31:19	14:42:50	00:04:51	-----	298-	24-	62-	75362
G2 (FM04)	12/05/20	14:34:40	14:46:42	00:03:51	-----	129-	36-	351-	74175
B2 (FM14)	12/05/20	14:39:11	14:52:34	00:05:52	-----	303-	88-	124-	71941
A4 (FM08)	12/05/20	14:45:16	14:56:47	00:04:12	-----	301-	24-	63-	75363
C1 (FM21)	12/05/20	14:46:11	14:59:14	00:02:26	-----	258-	47-	52-	71261
B1 (FM13)	12/05/20	14:54:49	15:08:10	00:08:56	-----	301-	77-	130-	71941
A8 (FM12)	12/05/20	14:59:49	15:11:26	00:03:15	-----	303-	25-	69-	75363
C7 (FM27)	12/05/20	15:01:18	15:14:08	00:02:42	-----	265-	40-	53-	71261
C4 (FM24)	12/05/20	15:02:14	15:15:06	00:00:57	-----	264-	41-	53-	71261
B6 (FM18)	12/05/20	15:09:32	15:22:39	00:07:32	-----	298-	56-	140-	71942
C3 (FM23)	12/05/20	15:12:01	15:24:46	00:02:06	-----	268-	37-	53-	71261
A5 (FM09)	12/05/20	15:13:57	15:25:40	00:00:54	-----	305-	25-	70-	75363
B7 (FM19)	12/05/20	15:23:13	15:36:06	00:10:25	-----	295-	46-	145-	71942
A7 (FM11)	12/05/20	15:25:58	15:37:48	00:01:41	-----	306-	26-	75-	75363
C2 (FM22)	12/05/20	15:37:21	15:49:46	00:11:58	-----	275-	32-	52-	71261
A6 (FM10)	12/05/20	15:37:48	15:49:44	00:00:02	-----	307-	28-	78-	75363
B8 (FM20)	12/05/20	15:39:37	15:52:08	00:02:23	-----	292-	36-	153-	71942
A2 (FM06)	12/05/20	15:51:30	16:03:36	00:11:28	-----	308-	30-	83-	75363
B4 (FM16)	12/05/20	15:55:16	16:07:25	00:03:49	-----	289-	31-	158-	71942
A1 (FM05)	12/05/20	16:05:16	16:17:32	00:10:06	-----	308-	32-	87-	75362
C5 (FM25)	12/05/20	16:05:30	16:17:35	00:00:02	-----	285-	27-	55-	71262
B3 (FM15)	12/05/20	16:11:01	16:22:34	00:04:58	-----	285-	24-	165-	71942
G2 (FM04)	12/05/20	16:13:30	16:25:07	00:02:33	-----	187-	28-	316-	74176
A3 (FM07)	12/05/20	16:17:24	16:29:51	00:04:43	-----	308-	35-	91-	75363

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B2 (FM14)	12/05/20	16:25:54	16:36:33	00:06:42	-----	281-	19-	173-	71942
A4 (FM08)	12/05/20	16:31:09	16:43:49	00:07:15	-----	308-	41-	96-	75364
C1 (FM21)	12/05/20	16:33:35	16:45:26	00:01:36	-----	292-	25-	57-	71262
B1 (FM13)	12/05/20	16:41:54	16:51:32	00:06:06	-----	275-	15-	182-	71942
A8 (FM12)	12/05/20	16:45:34	16:58:25	00:06:52	-----	308-	46-	102-	75364
C7 (FM27)	12/05/20	16:48:44	17:00:32	00:02:06	-----	296-	25-	61-	71262
C4 (FM24)	12/05/20	16:49:40	17:01:27	00:00:55	-----	296-	25-	61-	71262
B6 (FM18)	12/05/20	16:57:36	17:04:41	00:03:13	-----	262-	9-	200-	71943
C3 (FM23)	12/05/20	16:59:27	17:11:14	00:06:33	-----	298-	24-	63-	71262
A5 (FM09)	12/05/20	16:59:36	17:12:36	00:01:21	-----	307-	53-	106-	75364
A7 (FM11)	12/05/20	17:11:31	17:24:37	00:12:00	-----	306-	61-	112-	75364
B7 (FM19)	12/05/20	17:12:18	17:16:56	00:07:04	-----	250-	7-	215-	71943
A6 (FM10)	12/05/20	17:23:17	17:36:26	00:13:09	00:06:20	305-	69-	116-	75364
C2 (FM22)	12/05/20	17:24:41	17:36:32	00:00:05	-----	302-	25-	66-	71262
A2 (FM06)	12/05/20	17:36:56	17:50:06	00:13:10	00:00:24	304-	82-	121-	75364
A1 (FM05)	12/05/20	17:50:40	18:03:50	00:13:09	00:00:33	302-	85-	127-	75363
C5 (FM25)	12/05/20	17:52:35	18:04:41	00:00:50	-----	306-	27-	76-	71263
A3 (FM07)	12/05/20	18:02:48	18:15:55	00:11:14	-----	301-	73-	132-	75364
A4 (FM08)	12/05/20	18:16:35	18:29:31	00:12:56	00:00:39	298-	56-	140-	75365
C1 (FM21)	12/05/20	18:20:22	18:32:45	00:03:13	-----	307-	31-	82-	71263
A8 (FM12)	12/05/20	18:31:04	18:43:47	00:11:02	-----	295-	46-	145-	75365
C7 (FM27)	12/05/20	18:35:20	18:47:57	00:04:09	-----	308-	35-	90-	71263
C4 (FM24)	12/05/20	18:36:17	18:48:52	00:00:54	-----	308-	34-	89-	71263
A5 (FM09)	12/05/20	18:45:12	18:57:38	00:08:46	-----	293-	38-	152-	75365
C3 (FM23)	12/05/20	18:45:56	18:58:40	00:01:01	-----	308-	37-	93-	71263
A7 (FM11)	12/05/20	18:57:15	19:09:17	00:10:37	-----	290-	31-	157-	75365
A6 (FM10)	12/05/20	19:09:10	19:20:48	00:11:30	-----	287-	26-	162-	75365
C2 (FM22)	12/05/20	19:10:55	19:23:56	00:03:08	-----	308-	45-	100-	71263
A2 (FM06)	12/05/20	19:23:04	19:33:57	00:10:00	-----	283-	21-	171-	75365
A1 (FM05)	12/05/20	19:37:07	19:47:09	00:10:02	00:03:09	278-	17-	178-	75364
C5 (FM25)	12/05/20	19:38:34	19:51:53	00:04:44	-----	306-	62-	112-	71264
A3 (FM07)	12/05/20	19:49:37	19:58:41	00:06:47	-----	273-	14-	185-	75365
A4 (FM08)	12/05/20	20:04:11	20:11:13	00:07:02	00:05:29	264-	9-	199-	75366
C1 (FM21)	12/05/20	20:06:14	20:19:37	00:08:23	-----	303-	85-	123-	71264
A8 (FM12)	12/05/20	20:19:45	20:24:12	00:04:26	00:00:08	249-	7-	215-	75366
C7 (FM27)	12/05/20	20:21:11	20:34:32	00:10:20	-----	301-	77-	130-	71264
C4 (FM24)	12/05/20	20:22:07	20:35:29	00:00:56	-----	302-	80-	129-	71264
C3 (FM23)	12/05/20	20:31:47	20:45:04	00:09:35	-----	300-	69-	133-	71264
C2 (FM22)	12/05/20	20:56:50	21:09:49	00:12:58	00:11:45	296-	48-	144-	71264
C5 (FM25)	12/05/20	21:24:45	21:36:56	00:12:10	00:14:56	290-	31-	157-	71265
C1 (FM21)	12/05/20	21:52:51	22:03:43	00:10:51	00:15:55	282-	20-	172-	71265
C7 (FM27)	12/05/20	22:08:16	22:17:57	00:09:41	00:04:32	275-	15-	182-	71265
C4 (FM24)	12/05/20	22:09:07	22:19:00	00:01:02	-----	276-	16-	180-	71265
C3 (FM23)	12/05/20	22:19:09	22:28:02	00:08:52	00:00:08	271-	13-	188-	71265
D2 (FM30)	12/05/20	22:20:47	22:26:08	00:01:05	-----	155-	7-	103-	65011
D6 (FM34)	12/05/20	22:41:18	22:48:51	00:07:33	00:15:09	165-	10-	96-	65012
C2 (FM22)	12/05/20	22:45:33	22:51:04	00:02:12	-----	258-	7-	206-	71265
D7 (FM35)	12/05/20	23:00:00	23:09:29	00:09:28	00:08:56	177-	14-	84-	65012
D8 (FM36)	12/05/20	23:19:32	23:30:46	00:11:13	00:10:02	191-	22-	77-	65012
D3 (FM31)	12/05/20	23:40:22	23:53:06	00:12:43	00:09:36	211-	42-	65-	65012

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D2 (FM30)	12/05/21	00:01:57	00:14:54	00:12:57	00:08:50	216-	48-	64-	65012
D6 (FM34)	12/05/21	00:23:34	00:36:44	00:13:09	00:08:40	222-	59-	61-	65013
D7 (FM35)	12/05/21	00:43:18	00:56:38	00:13:20	00:06:33	229-	75-	59-	65013
D8 (FM36)	12/05/21	01:03:52	01:17:17	00:13:24	00:07:14	239-	80-	56-	65013
D3 (FM31)	12/05/21	01:26:00	01:39:06	00:13:06	00:08:42	256-	50-	53-	65013
D2 (FM30)	12/05/21	01:47:49	02:00:50	00:13:00	00:08:43	259-	45-	53-	65013
D6 (FM34)	12/05/21	02:09:45	02:22:37	00:12:51	00:08:55	264-	40-	53-	65014
D7 (FM35)	12/05/21	02:29:50	02:42:28	00:12:37	00:07:13	270-	35-	53-	65014
D8 (FM36)	12/05/21	02:50:50	03:03:10	00:12:20	00:08:21	278-	30-	52-	65014
D3 (FM31)	12/05/21	03:13:22	03:25:15	00:11:52	00:10:11	291-	25-	57-	65014
D2 (FM30)	12/05/21	03:35:15	03:47:04	00:11:49	00:10:00	293-	25-	59-	65014
D6 (FM34)	12/05/21	03:57:12	04:09:00	00:11:47	00:10:07	296-	24-	61-	65015
D7 (FM35)	12/05/21	04:17:16	04:29:03	00:11:46	00:08:16	300-	24-	64-	65015
G2 (FM04)	12/05/21	04:32:30	04:44:51	00:12:20	00:03:27	32-	49-	188-	74183
D8 (FM36)	12/05/21	04:38:07	04:50:03	00:05:11	-----	303-	25-	68-	65015
D3 (FM31)	12/05/21	05:00:15	05:12:32	00:12:17	00:10:11	307-	30-	82-	65015
D2 (FM30)	12/05/21	05:22:01	05:34:25	00:12:24	00:09:28	308-	31-	85-	65015
B1 (FM13)	12/05/21	05:35:23	05:41:42	00:06:19	00:00:57	159-	8-	103-	71950
D6 (FM34)	12/05/21	05:43:49	05:56:24	00:12:35	00:02:06	308-	34-	89-	65016
B6 (FM18)	12/05/21	05:48:18	05:57:35	00:01:11	-----	175-	14-	86-	71951
B7 (FM19)	12/05/21	06:01:16	06:11:35	00:10:18	00:03:41	183-	17-	80-	71951
D7 (FM35)	12/05/21	06:03:41	06:16:30	00:04:54	-----	308-	39-	95-	65016
G2 (FM04)	12/05/21	06:11:46	06:22:15	00:05:45	-----	1-	21-	250-	74184
B8 (FM20)	12/05/21	06:16:58	06:28:13	00:05:57	-----	192-	22-	75-	71951
D8 (FM36)	12/05/21	06:24:17	06:37:26	00:09:13	-----	307-	49-	103-	65016
B4 (FM16)	12/05/21	06:32:10	06:43:57	00:06:31	-----	197-	27-	71-	71951
D3 (FM31)	12/05/21	06:46:08	06:59:31	00:13:22	00:02:10	304-	79-	120-	65016
B3 (FM15)	12/05/21	06:47:19	06:59:39	00:00:08	-----	203-	33-	68-	71951
B2 (FM14)	12/05/21	07:01:37	07:14:22	00:12:44	00:01:58	211-	42-	65-	71951
D2 (FM30)	12/05/21	07:07:52	07:21:15	00:06:53	-----	303-	88-	124-	65016
B1 (FM13)	12/05/21	07:17:01	07:30:05	00:08:49	-----	218-	52-	63-	71951
D6 (FM34)	12/05/21	07:29:39	07:43:01	00:12:56	-----	302-	79-	129-	65017
B6 (FM18)	12/05/21	07:31:27	07:44:48	00:01:46	-----	228-	72-	59-	71952
B7 (FM19)	12/05/21	07:45:02	07:58:26	00:13:24	00:00:13	233-	86-	58-	71952
D7 (FM35)	12/05/21	07:49:32	08:02:45	00:04:18	-----	299-	62-	137-	65017
B8 (FM20)	12/05/21	08:01:21	08:14:43	00:11:57	-----	240-	79-	56-	71952
D8 (FM36)	12/05/21	08:10:16	08:23:05	00:08:22	-----	295-	42-	148-	65017
B4 (FM16)	12/05/21	08:16:55	08:30:16	00:07:10	-----	244-	69-	55-	71952
B3 (FM15)	12/05/21	08:32:31	08:45:47	00:13:16	00:02:14	250-	59-	54-	71952
D3 (FM31)	12/05/21	08:32:38	08:43:54	00:01:05	-----	284-	22-	169-	65017
A3 (FM07)	12/05/21	08:39:53	08:45:53	00:02:00	-----	159-	8-	100-	75373
B2 (FM14)	12/05/21	08:47:14	09:00:22	00:13:07	00:01:20	256-	50-	53-	71952
A4 (FM08)	12/05/21	08:52:13	09:00:36	00:00:14	-----	171-	12-	90-	75374
D2 (FM30)	12/05/21	08:54:34	09:05:17	00:04:40	-----	281-	19-	174-	65017
B1 (FM13)	12/05/21	09:03:00	09:16:00	00:10:42	-----	261-	44-	53-	71952
A8 (FM12)	12/05/21	09:05:52	09:15:32	00:00:02	-----	180-	16-	82-	75374
D6 (FM34)	12/05/21	09:16:41	09:26:29	00:09:48	00:01:08	276-	15-	181-	65018
B6 (FM18)	12/05/21	09:17:57	09:30:39	00:04:09	-----	269-	36-	53-	71953
A5 (FM09)	12/05/21	09:19:22	09:29:55	00:00:04	-----	187-	19-	80-	75374
A7 (FM11)	12/05/21	09:30:50	09:42:05	00:11:14	00:00:55	194-	24-	73-	75374

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B7 (FM19)	12/05/21	09:31:46	09:44:17	00:02:12	-----	274-	33-	53-	71953
D7 (FM35)	12/05/21	09:37:14	09:45:16	00:00:59	-----	267-	11-	194-	65018
A6 (FM10)	12/05/21	09:42:19	09:54:01	00:08:44	-----	199-	28-	71-	75374
B8 (FM20)	12/05/21	09:48:19	10:00:36	00:06:35	-----	279-	30-	54-	71953
A2 (FM06)	12/05/21	09:55:37	10:07:49	00:07:13	-----	205-	35-	67-	75374
D8 (FM36)	12/05/21	10:00:04	10:03:09	00:04:04	-----	249-	6-	217-	65018
B4 (FM16)	12/05/21	10:04:02	10:16:13	00:12:10	00:00:52	282-	28-	54-	71953
A1 (FM05)	12/05/21	10:09:07	10:21:40	00:05:27	-----	212-	43-	65-	75373
B3 (FM15)	12/05/21	10:19:47	10:31:49	00:10:09	-----	287-	27-	56-	71953
A3 (FM07)	12/05/21	10:21:04	10:33:53	00:02:03	-----	218-	52-	63-	75374
B2 (FM14)	12/05/21	10:34:37	10:46:31	00:11:54	00:00:44	291-	25-	57-	71953
A4 (FM08)	12/05/21	10:34:40	10:47:38	00:01:06	-----	226-	67-	60-	75375
A8 (FM12)	12/05/21	10:49:00	11:02:05	00:13:05	00:01:21	232-	81-	58-	75375
B1 (FM13)	12/05/21	10:50:26	11:02:17	00:00:11	-----	294-	25-	60-	71953
C7 (FM27)	12/05/21	11:01:48	11:08:05	00:05:47	-----	159-	8-	103-	71273
C4 (FM24)	12/05/21	11:02:57	11:08:43	00:00:38	-----	157-	8-	101-	71273
A5 (FM09)	12/05/21	11:03:01	11:16:10	00:07:26	-----	237-	86-	57-	75375
B6 (FM18)	12/05/21	11:05:23	11:17:11	00:01:01	-----	299-	25-	64-	71954
C3 (FM23)	12/05/21	11:11:30	11:19:06	00:01:54	-----	165-	10-	96-	71273
A7 (FM11)	12/05/21	11:14:58	11:28:04	00:08:58	-----	242-	74-	55-	75375
B7 (FM19)	12/05/21	11:19:09	11:30:58	00:02:54	-----	301-	25-	67-	71954
A6 (FM10)	12/05/21	11:26:47	11:39:51	00:08:52	-----	246-	65-	55-	75375
C2 (FM22)	12/05/21	11:35:02	11:45:02	00:05:11	-----	181-	16-	85-	71273
B8 (FM20)	12/05/21	11:35:36	11:47:28	00:02:26	-----	303-	25-	70-	71954
A2 (FM06)	12/05/21	11:40:31	11:53:29	00:06:00	-----	252-	55-	53-	75375
B4 (FM16)	12/05/21	11:51:13	12:03:13	00:09:43	-----	305-	26-	73-	71954
A1 (FM05)	12/05/21	11:54:22	12:07:13	00:04:00	-----	257-	48-	53-	75374
C5 (FM25)	12/05/21	12:01:34	12:13:21	00:06:08	-----	197-	26-	72-	71274
A3 (FM07)	12/05/21	12:06:38	12:19:21	00:06:00	-----	261-	43-	52-	75375
B3 (FM15)	12/05/21	12:06:49	12:18:58	00:00:02	-----	306-	28-	77-	71954
A4 (FM08)	12/05/21	12:20:37	12:33:03	00:12:26	00:01:38	268-	36-	51-	75376
B2 (FM14)	12/05/21	12:21:30	12:33:48	00:00:45	-----	307-	30-	82-	71954
C1 (FM21)	12/05/21	12:28:37	12:41:18	00:07:30	-----	209-	40-	66-	71274
A8 (FM12)	12/05/21	12:35:12	12:47:30	00:06:12	-----	273-	33-	52-	75376
B1 (FM13)	12/05/21	12:37:09	12:49:39	00:02:08	-----	308-	32-	86-	71954
C7 (FM27)	12/05/21	12:43:26	12:56:28	00:06:48	-----	218-	52-	63-	71274
C4 (FM24)	12/05/21	12:44:19	12:57:18	00:00:50	-----	217-	50-	63-	71274
A5 (FM09)	12/05/21	12:49:27	13:01:36	00:04:17	-----	277-	31-	51-	75376
B6 (FM18)	12/05/21	12:51:50	13:04:37	00:03:01	-----	308-	38-	94-	71955
C3 (FM23)	12/05/21	12:53:47	13:06:58	00:02:20	-----	222-	59-	61-	71274
A7 (FM11)	12/05/21	13:01:34	13:13:33	00:06:35	-----	281-	28-	54-	75376
B7 (FM19)	12/05/21	13:05:27	13:18:24	00:04:51	-----	308-	43-	99-	71955
A6 (FM10)	12/05/21	13:13:31	13:25:22	00:06:57	-----	284-	27-	54-	75376
C2 (FM22)	12/05/21	13:18:37	13:31:59	00:06:36	-----	232-	82-	58-	71274
B8 (FM20)	12/05/21	13:21:45	13:34:51	00:02:52	-----	307-	50-	105-	71955
A2 (FM06)	12/05/21	13:27:23	13:39:06	00:04:14	-----	288-	26-	56-	75376
B4 (FM16)	12/05/21	13:37:17	13:50:31	00:11:25	-----	307-	56-	109-	71955
A1 (FM05)	12/05/21	13:41:19	13:52:56	00:02:25	-----	292-	25-	57-	75375
C5 (FM25)	12/05/21	13:46:18	13:59:40	00:06:43	-----	244-	70-	55-	71275
B3 (FM15)	12/05/21	13:52:47	14:06:07	00:06:27	-----	306-	66-	114-	71955

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A3 (FM07)	12/05/21	13:53:38	14:05:12	00:00:05	-----	295-	24-	59-	75376
B2 (FM14)	12/05/21	14:07:23	14:20:46	00:13:22	00:02:11	304-	79-	120-	71955
A4 (FM08)	12/05/21	14:07:36	14:19:05	00:01:04	-----	298-	24-	60-	75377
G2 (FM04)	12/05/21	14:10:13	14:20:44	00:01:38	-----	111-	20-	1-	74189
C1 (FM21)	12/05/21	14:14:09	14:27:18	00:06:34	-----	254-	51-	53-	71275
A8 (FM12)	12/05/21	14:22:10	14:33:42	00:06:24	-----	301-	24-	65-	75377
B1 (FM13)	12/05/21	14:23:00	14:36:24	00:02:41	-----	303-	87-	126-	71955
C7 (FM27)	12/05/21	14:29:25	14:42:22	00:05:58	-----	261-	43-	53-	71275
C4 (FM24)	12/05/21	14:30:13	14:43:13	00:00:50	-----	260-	44-	53-	71275
A5 (FM09)	12/05/21	14:36:20	14:47:57	00:04:43	-----	303-	24-	66-	75377
B6 (FM18)	12/05/21	14:37:41	14:50:56	00:02:58	-----	299-	64-	136-	71956
C3 (FM23)	12/05/21	14:39:57	14:52:49	00:01:53	-----	264-	40-	53-	71275
A7 (FM11)	12/05/21	14:48:22	15:00:03	00:07:13	-----	305-	25-	71-	75377
B7 (FM19)	12/05/21	14:51:21	15:04:25	00:04:22	-----	297-	53-	141-	71956
A6 (FM10)	12/05/21	15:00:13	15:12:00	00:07:33	-----	306-	26-	74-	75377
C2 (FM22)	12/05/21	15:05:16	15:17:49	00:05:49	-----	272-	34-	51-	71275
B8 (FM20)	12/05/21	15:07:44	15:20:29	00:02:39	-----	294-	42-	148-	71956
A2 (FM06)	12/05/21	15:13:56	15:25:51	00:05:21	-----	307-	27-	78-	75377
B4 (FM16)	12/05/21	15:23:22	15:35:50	00:10:00	-----	292-	35-	153-	71956
A1 (FM05)	12/05/21	15:27:44	15:39:48	00:03:57	-----	308-	29-	82-	75376
C5 (FM25)	12/05/21	15:33:24	15:45:36	00:05:47	-----	282-	28-	54-	71276
B3 (FM15)	12/05/21	15:39:03	15:51:02	00:05:26	-----	288-	28-	160-	71956
A3 (FM07)	12/05/21	15:39:54	15:52:08	00:01:06	-----	308-	32-	86-	75377
G2 (FM04)	12/05/21	15:47:22	16:00:05	00:07:56	-----	169-	54-	328-	74190
A4 (FM08)	12/05/21	15:53:39	16:06:06	00:06:01	-----	308-	36-	90-	75378
B2 (FM14)	12/05/21	15:53:54	16:05:08	00:00:05	-----	284-	22-	168-	71956
C1 (FM21)	12/05/21	16:01:30	16:13:25	00:08:16	-----	290-	26-	55-	71276
A8 (FM12)	12/05/21	16:08:04	16:20:44	00:07:18	-----	308-	40-	97-	75378
B1 (FM13)	12/05/21	16:09:49	16:20:13	00:00:03	-----	279-	18-	176-	71956
C7 (FM27)	12/05/21	16:16:51	16:28:40	00:08:27	-----	294-	25-	60-	71276
C4 (FM24)	12/05/21	16:17:38	16:29:28	00:00:48	-----	294-	25-	59-	71276
A5 (FM09)	12/05/21	16:22:07	16:34:57	00:05:28	-----	308-	45-	100-	75378
B6 (FM18)	12/05/21	16:25:17	16:33:36	00:01:02	-----	268-	12-	192-	71957
C3 (FM23)	12/05/21	16:27:23	16:39:11	00:05:35	-----	296-	25-	61-	71276
A7 (FM11)	12/05/21	16:34:02	16:47:00	00:07:48	-----	307-	51-	106-	75378
B7 (FM19)	12/05/21	16:39:39	16:46:12	00:00:04	-----	260-	9-	203-	71957
A6 (FM10)	12/05/21	16:45:48	16:58:51	00:12:38	-----	307-	57-	110-	75378
C2 (FM22)	12/05/21	16:52:39	17:04:27	00:05:36	-----	300-	25-	64-	71276
A2 (FM06)	12/05/21	16:59:26	17:12:33	00:08:05	-----	305-	68-	115-	75378
A1 (FM05)	12/05/21	17:13:10	17:26:20	00:13:10	00:00:37	304-	80-	121-	75377
C5 (FM25)	12/05/21	17:20:35	17:32:35	00:06:14	-----	305-	26-	73-	71277
A3 (FM07)	12/05/21	17:25:19	17:38:29	00:05:54	-----	303-	88-	125-	75378
A4 (FM08)	12/05/21	17:39:03	17:52:08	00:13:05	00:00:33	300-	70-	133-	75379
C1 (FM21)	12/05/21	17:48:24	18:00:39	00:08:31	-----	307-	29-	79-	71277
A8 (FM12)	12/05/21	17:53:30	18:06:28	00:05:48	-----	298-	57-	139-	75379
C7 (FM27)	12/05/21	18:03:33	18:16:02	00:09:34	-----	308-	32-	87-	71277
C4 (FM24)	12/05/21	18:04:22	18:16:49	00:00:47	-----	308-	32-	86-	71277
A5 (FM09)	12/05/21	18:07:36	18:20:23	00:03:33	-----	296-	48-	145-	75379
C3 (FM23)	12/05/21	18:14:00	18:26:35	00:06:11	-----	308-	34-	89-	71277
A7 (FM11)	12/05/21	18:19:36	18:32:06	00:05:30	-----	293-	39-	150-	75379

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A6 (FM10)	12/05/21	18:31:28	18:43:40	00:11:34	-----	291-	33-	154-	75379
C2 (FM22)	12/05/21	18:38:59	18:51:53	00:08:12	-----	308-	41-	96-	71277
A2 (FM06)	12/05/21	18:45:18	18:56:54	00:05:01	-----	287-	27-	162-	75379
A1 (FM05)	12/05/21	18:59:16	19:10:15	00:10:59	00:02:21	283-	22-	169-	75378
C5 (FM25)	12/05/21	19:06:39	19:19:53	00:09:37	-----	307-	56-	109-	71278
A3 (FM07)	12/05/21	19:11:40	19:21:58	00:02:05	-----	279-	18-	175-	75379
A4 (FM08)	12/05/21	19:25:56	19:34:46	00:08:50	00:03:57	273-	13-	188-	75380
C1 (FM21)	12/05/21	19:34:17	19:47:40	00:12:53	-----	304-	76-	119-	71278
A8 (FM12)	12/05/21	19:41:01	19:48:16	00:00:35	-----	264-	10-	198-	75380
C7 (FM27)	12/05/21	19:49:24	20:02:48	00:13:23	00:01:08	303-	87-	126-	71278
C4 (FM24)	12/05/21	19:50:13	20:03:37	00:00:49	-----	303-	90-	125-	71278
A5 (FM09)	12/05/21	19:56:01	20:01:07	00:02:02	-----	257-	7-	207-	75380
C3 (FM23)	12/05/21	19:59:49	20:13:11	00:12:03	-----	302-	79-	129-	71278
C2 (FM22)	12/05/21	20:24:51	20:38:00	00:13:08	00:11:40	298-	56-	140-	71278
C5 (FM25)	12/05/21	20:52:43	21:05:13	00:12:29	00:14:43	292-	36-	153-	71279
C1 (FM21)	12/05/21	21:20:44	21:32:08	00:11:24	00:15:31	285-	23-	167-	71279
C7 (FM27)	12/05/21	21:36:13	21:46:39	00:10:25	00:04:05	279-	18-	176-	71279
C4 (FM24)	12/05/21	21:36:58	21:47:34	00:00:54	-----	280-	19-	174-	71279
C3 (FM23)	12/05/21	21:46:52	21:56:36	00:09:02	-----	276-	15-	181-	71279
D6 (FM34)	12/05/21	22:10:24	22:16:26	00:06:01	00:13:48	158-	8-	100-	65026
C2 (FM22)	12/05/21	22:12:53	22:20:04	00:03:37	-----	265-	9-	197-	71279
D7 (FM35)	12/05/21	22:28:47	22:37:18	00:08:31	00:08:43	171-	12-	90-	65026
D8 (FM36)	12/05/21	22:48:07	22:58:46	00:10:39	00:10:48	186-	19-	81-	65026
D3 (FM31)	12/05/21	23:08:47	23:21:15	00:12:28	00:10:00	206-	36-	67-	65026
D2 (FM30)	12/05/21	23:30:20	23:43:04	00:12:44	00:09:04	211-	42-	65-	65026
D6 (FM34)	12/05/21	23:51:55	00:04:56	00:13:01	00:08:50	217-	51-	63-	65027
D7 (FM35)	12/05/22	00:11:34	00:24:50	00:13:15	00:06:38	225-	66-	60-	65027
D8 (FM36)	12/05/22	00:32:05	00:45:30	00:13:24	00:07:15	236-	89-	57-	65027
D3 (FM31)	12/05/22	00:54:08	01:07:20	00:13:12	00:08:38	252-	55-	54-	65027
D2 (FM30)	12/05/22	01:15:57	01:29:04	00:13:06	00:08:37	256-	50-	53-	65027
D6 (FM34)	12/05/22	01:37:52	01:50:50	00:12:58	00:08:48	261-	44-	53-	65028
D7 (FM35)	12/05/22	01:57:55	02:10:41	00:12:45	00:07:05	267-	38-	52-	65028
D8 (FM36)	12/05/22	02:18:54	02:31:21	00:12:27	00:08:13	275-	32-	52-	65028
D3 (FM31)	12/05/22	02:41:27	02:53:24	00:11:57	00:10:05	288-	26-	56-	65028
D2 (FM30)	12/05/22	03:03:20	03:15:13	00:11:52	00:09:55	291-	25-	57-	65028
D6 (FM34)	12/05/22	03:25:18	03:37:07	00:11:49	00:10:05	294-	25-	59-	65029
D7 (FM35)	12/05/22	03:45:22	03:57:08	00:11:46	00:08:15	298-	24-	62-	65029
D8 (FM36)	12/05/22	04:06:15	04:18:07	00:11:52	00:09:06	302-	25-	66-	65029
G2 (FM04)	12/05/22	04:07:32	04:18:39	00:00:31	-----	43-	25-	168-	74197
D3 (FM31)	12/05/22	04:28:26	04:40:36	00:12:10	00:09:47	307-	28-	79-	65029
D2 (FM30)	12/05/22	04:50:12	05:02:30	00:12:17	00:09:36	307-	30-	82-	65029
D6 (FM34)	12/05/22	05:12:01	05:24:29	00:12:28	00:09:31	308-	32-	86-	65030
B6 (FM18)	12/05/22	05:17:05	05:25:21	00:00:51	-----	169-	11-	92-	71965
B7 (FM19)	12/05/22	05:29:56	05:39:29	00:09:33	00:04:34	177-	15-	84-	71965
D7 (FM35)	12/05/22	05:31:53	05:44:35	00:05:05	-----	308-	36-	92-	65030
B8 (FM20)	12/05/22	05:45:32	05:56:13	00:10:41	00:00:56	187-	19-	78-	71965
G2 (FM04)	12/05/22	05:45:48	05:57:44	00:01:31	-----	11-	38-	231-	74198
D8 (FM36)	12/05/22	05:52:30	06:05:33	00:07:49	-----	308-	45-	100-	65030
B4 (FM16)	12/05/22	06:00:40	06:12:00	00:06:26	-----	193-	23-	74-	71965
D3 (FM31)	12/05/22	06:14:22	06:27:43	00:13:20	00:02:22	305-	70-	116-	65030

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B3 (FM15)	12/05/22	06:15:44	06:27:43	00:00:00	-----	198-	29-	70-	71965
B2 (FM14)	12/05/22	06:30:00	06:42:30	00:12:29	00:02:16	206-	36-	67-	71965
D2 (FM30)	12/05/22	06:36:05	06:49:28	00:06:58	-----	304-	79-	120-	65030
B1 (FM13)	12/05/22	06:45:22	06:58:14	00:08:45	-----	213-	45-	64-	71965
D6 (FM34)	12/05/22	06:57:52	07:11:16	00:13:02	-----	303-	89-	125-	65031
B6 (FM18)	12/05/22	06:59:43	07:12:58	00:01:42	-----	224-	63-	61-	71966
B7 (FM19)	12/05/22	07:13:15	07:26:37	00:13:21	00:00:17	229-	76-	59-	71966
D7 (FM35)	12/05/22	07:17:44	07:31:02	00:04:25	-----	300-	71-	133-	65031
B8 (FM20)	12/05/22	07:29:32	07:42:55	00:11:52	-----	236-	88-	57-	71966
D8 (FM36)	12/05/22	07:38:26	07:51:27	00:08:32	-----	296-	49-	144-	65031
B4 (FM16)	12/05/22	07:45:05	07:58:28	00:07:01	-----	240-	78-	56-	71966
B3 (FM15)	12/05/22	08:00:38	08:13:58	00:13:20	00:02:09	246-	65-	55-	71966
D3 (FM31)	12/05/22	08:00:42	08:12:25	00:01:03	-----	287-	26-	163-	65031
B2 (FM14)	12/05/22	08:15:21	08:28:34	00:13:13	00:02:56	252-	55-	54-	71966
A4 (FM08)	12/05/22	08:15:52	08:22:17	00:06:01	-----	159-	9-	102-	75388
D2 (FM30)	12/05/22	08:22:35	08:33:51	00:11:16	00:00:18	284-	22-	169-	65031
A8 (FM12)	12/05/22	08:29:12	08:37:28	00:03:36	-----	170-	12-	91-	75388
B1 (FM13)	12/05/22	08:31:06	08:44:12	00:06:43	-----	257-	48-	53-	71966
A5 (FM09)	12/05/22	08:42:33	08:52:01	00:07:49	-----	178-	15-	87-	75388
D6 (FM34)	12/05/22	08:44:39	08:55:11	00:03:09	-----	280-	18-	175-	65032
B6 (FM18)	12/05/22	08:46:00	08:58:50	00:03:39	-----	266-	39-	53-	71967
A7 (FM11)	12/05/22	08:53:53	09:04:17	00:05:26	-----	186-	19-	78-	75388
B7 (FM19)	12/05/22	08:59:49	09:12:28	00:08:10	-----	271-	35-	53-	71967
D7 (FM35)	12/05/22	09:05:02	09:14:06	00:01:38	-----	272-	13-	187-	65032
A6 (FM10)	12/05/22	09:05:17	09:16:16	00:02:09	-----	192-	22-	75-	75388
B8 (FM20)	12/05/22	09:16:22	09:28:46	00:12:24	00:00:05	276-	31-	53-	71967
A2 (FM06)	12/05/22	09:18:29	09:30:09	00:01:22	-----	197-	28-	71-	75388
D8 (FM36)	12/05/22	09:27:06	09:32:47	00:02:38	-----	259-	8-	205-	65032
A1 (FM05)	12/05/22	09:31:54	09:44:03	00:11:16	-----	204-	34-	68-	75387
B4 (FM16)	12/05/22	09:32:05	09:44:22	00:00:19	-----	279-	30-	54-	71967
A3 (FM07)	12/05/22	09:43:50	09:56:18	00:11:56	-----	210-	41-	65-	75388
B3 (FM15)	12/05/22	09:47:48	09:59:57	00:03:38	-----	284-	28-	55-	71967
A4 (FM08)	12/05/22	09:57:18	10:10:05	00:10:08	-----	219-	53-	63-	75389
B2 (FM14)	12/05/22	10:02:40	10:14:39	00:04:33	-----	288-	26-	56-	71967
A8 (FM12)	12/05/22	10:11:34	10:24:33	00:09:54	-----	225-	66-	60-	75389
B1 (FM13)	12/05/22	10:18:30	10:30:23	00:05:50	-----	292-	25-	58-	71967
A5 (FM09)	12/05/22	10:25:33	10:38:39	00:08:15	-----	231-	78-	59-	75389
B6 (FM18)	12/05/22	10:33:27	10:45:16	00:06:36	-----	297-	25-	62-	71968
A7 (FM11)	12/05/22	10:37:27	10:50:34	00:05:18	-----	236-	88-	57-	75389
C3 (FM23)	12/05/22	10:40:27	10:46:32	00:04:02	-----	158-	8-	104-	71287
B7 (FM19)	12/05/22	10:47:14	10:59:02	00:11:48	00:00:42	300-	25-	65-	71968
A6 (FM10)	12/05/22	10:49:14	11:02:21	00:03:18	-----	240-	78-	56-	75389
A2 (FM06)	12/05/22	11:02:54	11:15:59	00:13:04	00:00:33	246-	66-	55-	75389
C2 (FM22)	12/05/22	11:03:37	11:12:46	00:03:01	-----	175-	14-	90-	71287
B8 (FM20)	12/05/22	11:03:42	11:15:32	00:02:45	-----	302-	25-	68-	71968
A1 (FM05)	12/05/22	11:16:44	11:29:44	00:12:59	00:01:12	251-	56-	54-	75388
B4 (FM16)	12/05/22	11:19:21	11:31:16	00:01:32	-----	304-	26-	71-	71968
A3 (FM07)	12/05/22	11:29:00	11:41:52	00:10:36	-----	256-	49-	53-	75389
C5 (FM25)	12/05/22	11:29:56	11:41:15	00:00:03	-----	192-	23-	74-	71288
B3 (FM15)	12/05/22	11:34:57	11:47:00	00:05:44	-----	305-	27-	75-	71968

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A4 (FM08)	12/05/22	11:42:55	11:55:32	00:08:32	-----	262-	41-	51-	75390
B2 (FM14)	12/05/22	11:49:39	12:01:51	00:06:18	-----	307-	28-	79-	71968
C1 (FM21)	12/05/22	11:56:52	12:09:17	00:07:25	-----	205-	34-	68-	71288
A8 (FM12)	12/05/22	11:57:29	12:09:58	00:00:41	-----	267-	37-	52-	75390
B1 (FM13)	12/05/22	12:05:20	12:17:42	00:07:43	-----	307-	31-	83-	71968
A5 (FM09)	12/05/22	12:11:43	12:24:04	00:06:21	-----	271-	34-	51-	75390
C7 (FM27)	12/05/22	12:11:49	12:24:38	00:00:34	-----	213-	45-	64-	71288
C4 (FM24)	12/05/22	12:12:35	12:25:21	00:00:43	-----	211-	43-	64-	71288
B6 (FM18)	12/05/22	12:20:01	12:32:41	00:07:20	-----	308-	36-	91-	71969
C3 (FM23)	12/05/22	12:21:57	12:34:59	00:02:17	-----	217-	51-	63-	71288
A7 (FM11)	12/05/22	12:23:50	12:36:00	00:01:00	-----	276-	31-	53-	75390
B7 (FM19)	12/05/22	12:33:39	12:46:29	00:10:29	-----	308-	39-	96-	71969
A6 (FM10)	12/05/22	12:35:46	12:47:48	00:01:19	-----	279-	29-	53-	75390
C2 (FM22)	12/05/22	12:46:43	13:00:02	00:12:13	-----	228-	72-	60-	71288
A2 (FM06)	12/05/22	12:49:38	13:01:30	00:01:28	-----	284-	27-	54-	75390
B8 (FM20)	12/05/22	12:49:57	13:02:57	00:01:27	-----	308-	45-	101-	71969
A1 (FM05)	12/05/22	13:03:36	13:15:20	00:11:44	00:00:38	288-	26-	55-	75389
B4 (FM16)	12/05/22	13:05:29	13:18:38	00:03:17	-----	307-	51-	105-	71969
C5 (FM25)	12/05/22	13:14:20	13:27:44	00:09:06	-----	240-	78-	56-	71289
A3 (FM07)	12/05/22	13:15:56	13:27:35	00:00:09	-----	291-	25-	57-	75390
B3 (FM15)	12/05/22	13:20:58	13:34:15	00:06:40	-----	306-	59-	111-	71969
A4 (FM08)	12/05/22	13:29:55	13:41:25	00:07:09	-----	295-	24-	57-	75391
B2 (FM14)	12/05/22	13:35:35	13:48:56	00:07:31	-----	305-	71-	117-	71969
C1 (FM21)	12/05/22	13:42:08	13:55:22	00:06:25	-----	251-	57-	53-	71289
A8 (FM12)	12/05/22	13:44:29	13:56:00	00:00:37	-----	298-	24-	62-	75391
G2 (FM04)	12/05/22	13:46:25	13:54:21	00:01:03	-----	90-	11-	12-	74203
B1 (FM13)	12/05/22	13:51:12	14:04:36	00:10:15	-----	304-	83-	122-	71969
C7 (FM27)	12/05/22	13:57:32	14:10:36	00:06:00	-----	258-	47-	53-	71289
C4 (FM24)	12/05/22	13:58:14	14:11:20	00:00:43	-----	257-	49-	53-	71289
A5 (FM09)	12/05/22	13:58:42	14:10:14	00:01:05	-----	300-	24-	62-	75391
B6 (FM18)	12/05/22	14:05:51	14:19:11	00:08:56	-----	301-	73-	132-	71970
C3 (FM23)	12/05/22	14:07:54	14:20:53	00:01:41	-----	261-	44-	53-	71289
A7 (FM11)	12/05/22	14:10:44	14:22:19	00:01:26	-----	303-	24-	67-	75391
B7 (FM19)	12/05/22	14:19:31	14:32:43	00:10:23	-----	299-	61-	137-	71970
A6 (FM10)	12/05/22	14:22:36	14:34:14	00:01:31	-----	304-	25-	70-	75391
C2 (FM22)	12/05/22	14:33:11	14:45:52	00:11:37	-----	269-	36-	51-	71289
B8 (FM20)	12/05/22	14:35:52	14:48:49	00:02:57	-----	296-	48-	144-	71970
A2 (FM06)	12/05/22	14:36:21	14:48:05	00:00:04	-----	306-	26-	74-	75391
A1 (FM05)	12/05/22	14:50:11	15:02:04	00:11:53	00:02:05	307-	27-	77-	75390
B4 (FM16)	12/05/22	14:51:29	15:04:13	00:02:09	-----	294-	41-	149-	71970
C5 (FM25)	12/05/22	15:01:19	15:13:37	00:09:24	-----	279-	30-	54-	71290
A3 (FM07)	12/05/22	15:02:23	15:14:25	00:00:47	-----	308-	29-	81-	75391
B3 (FM15)	12/05/22	15:07:07	15:19:26	00:05:00	-----	291-	33-	155-	71970
A4 (FM08)	12/05/22	15:16:08	15:28:23	00:08:56	-----	308-	32-	85-	75392
G2 (FM04)	12/05/22	15:21:48	15:34:42	00:06:19	-----	151-	81-	338-	74204
B2 (FM14)	12/05/22	15:21:56	15:33:39	00:01:03	-----	287-	26-	163-	71970
C1 (FM21)	12/05/22	15:29:25	15:41:24	00:07:45	-----	287-	26-	54-	71290
A8 (FM12)	12/05/22	15:30:33	15:43:01	00:01:36	-----	308-	35-	91-	75392
B1 (FM13)	12/05/22	15:37:48	15:48:49	00:05:48	-----	282-	21-	171-	71970
A5 (FM09)	12/05/22	15:44:38	15:57:16	00:08:27	-----	308-	39-	95-	75392

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C7 (FM27)	12/05/22	15:44:56	15:56:48	00:00:02	-----	292-	25-	58-	71290
C4 (FM24)	12/05/22	15:45:37	15:57:30	00:00:41	-----	291-	25-	58-	71290
B6 (FM18)	12/05/22	15:53:05	16:02:23	00:04:52	-----	273-	14-	185-	71971
C3 (FM23)	12/05/22	15:55:19	16:07:09	00:04:46	-----	294-	25-	59-	71290
A7 (FM11)	12/05/22	15:56:32	16:09:20	00:02:10	-----	308-	44-	100-	75392
B7 (FM19)	12/05/22	16:07:16	16:15:10	00:05:50	-----	266-	11-	195-	71971
A6 (FM10)	12/05/22	16:08:18	16:21:12	00:06:02	-----	308-	49-	104-	75392
C2 (FM22)	12/05/22	16:20:36	16:32:23	00:11:10	-----	299-	24-	62-	71290
A2 (FM06)	12/05/22	16:21:56	16:34:57	00:02:33	-----	307-	57-	110-	75392
B8 (FM20)	12/05/22	16:24:37	16:30:03	00:04:05	-----	254-	7-	211-	71971
A1 (FM05)	12/05/22	16:35:41	16:48:48	00:13:06	00:05:37	306-	66-	115-	75391
A3 (FM07)	12/05/22	16:47:50	17:01:00	00:12:12	-----	304-	77-	119-	75392
C5 (FM25)	12/05/22	16:48:35	17:00:30	00:00:03	-----	304-	26-	71-	71291
A4 (FM08)	12/05/22	17:01:32	17:14:41	00:13:09	00:01:01	302-	86-	127-	75393
G2 (FM04)	12/05/22	17:03:20	17:11:17	00:03:02	-----	219-	11-	294-	74205
A8 (FM12)	12/05/22	17:15:57	17:29:04	00:13:07	00:04:39	301-	72-	132-	75393
C1 (FM21)	12/05/22	17:16:25	17:28:34	00:00:03	-----	306-	28-	76-	71291
A5 (FM09)	12/05/22	17:30:03	17:43:04	00:13:00	00:01:29	299-	60-	138-	75393
C7 (FM27)	12/05/22	17:31:46	17:44:07	00:01:03	-----	307-	31-	83-	71291
C4 (FM24)	12/05/22	17:32:28	17:44:47	00:00:39	-----	307-	30-	83-	71291
A7 (FM11)	12/05/22	17:42:01	17:54:50	00:10:02	-----	296-	49-	143-	75393
C3 (FM23)	12/05/22	17:42:02	17:54:30	00:00:01	-----	308-	32-	86-	71291
A6 (FM10)	12/05/22	17:53:51	18:06:27	00:11:57	-----	294-	42-	147-	75393
C2 (FM22)	12/05/22	18:07:02	18:19:49	00:12:46	00:00:35	308-	38-	93-	71291
A2 (FM06)	12/05/22	18:07:37	18:19:48	00:00:01	-----	291-	34-	155-	75393
A1 (FM05)	12/05/22	18:21:31	18:33:13	00:11:41	00:01:43	288-	27-	161-	75392
A3 (FM07)	12/05/22	18:33:52	18:45:02	00:11:09	00:00:39	284-	23-	167-	75393
C5 (FM25)	12/05/22	18:34:43	18:47:52	00:02:49	-----	307-	50-	105-	71292
A4 (FM08)	12/05/22	18:47:56	18:58:02	00:10:05	00:00:04	279-	17-	178-	75394
C1 (FM21)	12/05/22	19:02:21	19:15:41	00:13:19	00:04:18	305-	68-	115-	71292
A8 (FM12)	12/05/22	19:02:48	19:11:46	00:03:05	-----	272-	13-	186-	75394
A5 (FM09)	12/05/22	19:17:25	19:25:03	00:07:37	00:05:39	267-	10-	194-	75394
C7 (FM27)	12/05/22	19:17:38	19:31:02	00:05:59	-----	304-	83-	122-	71292
C4 (FM24)	12/05/22	19:18:20	19:31:44	00:00:41	-----	304-	81-	121-	71292
C3 (FM23)	12/05/22	19:27:53	19:41:16	00:09:32	-----	303-	88-	125-	71292
A7 (FM11)	12/05/22	19:30:12	19:35:48	00:05:02	-----	255-	8-	208-	75394
A6 (FM10)	12/05/22	19:43:24	19:45:58	00:02:33	00:07:35	248-	6-	219-	75394
C2 (FM22)	12/05/22	19:52:53	20:06:08	00:13:15	00:06:55	299-	65-	136-	71292
C5 (FM25)	12/05/22	20:20:42	20:33:27	00:12:45	00:14:33	294-	41-	148-	71293
C1 (FM21)	12/05/22	20:48:38	21:00:29	00:11:50	00:15:10	288-	27-	162-	71293
C7 (FM27)	12/05/22	21:04:14	21:15:16	00:11:02	00:03:44	282-	21-	170-	71293
C4 (FM24)	12/05/22	21:04:52	21:16:03	00:00:46	-----	283-	22-	169-	71293
C3 (FM23)	12/05/22	21:14:39	21:25:08	00:09:04	-----	279-	18-	175-	71293
C2 (FM22)	12/05/22	21:40:26	21:48:52	00:08:26	00:15:17	270-	12-	190-	71293
D7 (FM35)	12/05/22	21:57:41	22:05:04	00:07:22	00:08:49	164-	10-	97-	65040
D8 (FM36)	12/05/22	22:16:45	22:26:44	00:09:58	00:11:41	181-	16-	85-	65040
D3 (FM31)	12/05/22	22:37:13	22:49:23	00:12:10	00:10:29	201-	31-	69-	65040
D2 (FM30)	12/05/22	22:58:44	23:11:13	00:12:28	00:09:20	206-	36-	67-	65040
D6 (FM34)	12/05/22	23:20:18	23:33:06	00:12:48	00:09:04	212-	44-	64-	65041
D7 (FM35)	12/05/22	23:39:52	23:53:01	00:13:09	00:06:46	221-	57-	62-	65041

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D8 (FM36)	12/05/23	00:00:19	00:13:42	00:13:22	00:07:17	232-	81-	58-	65041
D3 (FM31)	12/05/23	00:22:17	00:35:34	00:13:16	00:08:34	248-	61-	54-	65041
D2 (FM30)	12/05/23	00:44:05	00:57:17	00:13:12	00:08:31	252-	55-	54-	65041
D6 (FM34)	12/05/23	01:06:00	01:19:04	00:13:04	00:08:42	257-	48-	53-	65042
D7 (FM35)	12/05/23	01:26:01	01:38:54	00:12:52	00:06:56	264-	41-	52-	65042
D8 (FM36)	12/05/23	01:46:58	01:59:33	00:12:34	00:08:04	272-	34-	51-	65042
D3 (FM31)	12/05/23	02:09:31	02:21:34	00:12:02	00:09:58	285-	27-	55-	65042
D2 (FM30)	12/05/23	02:31:24	02:43:22	00:11:57	00:09:50	288-	26-	56-	65042
D6 (FM34)	12/05/23	02:53:23	03:05:15	00:11:52	00:10:01	292-	25-	58-	65043
D7 (FM35)	12/05/23	03:13:28	03:25:15	00:11:47	00:08:12	296-	24-	61-	65043
D8 (FM36)	12/05/23	03:34:22	03:46:12	00:11:49	00:09:07	300-	25-	64-	65043
G2 (FM04)	12/05/23	03:43:12	03:51:37	00:05:24	-----	58-	13-	146-	74211
D3 (FM31)	12/05/23	03:56:37	04:08:41	00:12:03	00:05:00	306-	27-	76-	65043
D2 (FM30)	12/05/23	04:18:23	04:30:34	00:12:10	00:09:42	307-	28-	79-	65043
D6 (FM34)	12/05/23	04:40:14	04:52:34	00:12:20	00:09:39	307-	30-	83-	65044
B6 (FM18)	12/05/23	04:46:00	04:53:01	00:00:27	-----	162-	9-	99-	71979
B7 (FM19)	12/05/23	04:58:41	05:07:18	00:08:36	00:05:39	171-	12-	89-	71979
D7 (FM35)	12/05/23	05:00:06	05:12:40	00:05:21	-----	308-	34-	89-	65044
B8 (FM20)	12/05/23	05:14:08	05:24:10	00:10:01	00:01:28	181-	16-	81-	71979
G2 (FM04)	12/05/23	05:20:06	05:32:42	00:08:32	-----	20-	71-	212-	74212
D8 (FM36)	12/05/23	05:20:43	05:33:39	00:00:57	-----	308-	41-	96-	65044
B4 (FM16)	12/05/23	05:29:12	05:40:00	00:06:20	-----	187-	20-	77-	71979
D3 (FM31)	12/05/23	05:42:36	05:55:53	00:13:17	00:02:35	306-	63-	113-	65044
B3 (FM15)	12/05/23	05:44:11	05:55:46	00:00:07	-----	195-	25-	73-	71979
B2 (FM14)	12/05/23	05:58:25	06:10:36	00:12:11	00:02:38	201-	31-	69-	71979
D2 (FM30)	12/05/23	06:04:19	06:17:40	00:07:04	-----	305-	70-	116-	65044
B1 (FM13)	12/05/23	06:13:44	06:26:22	00:08:41	-----	208-	39-	66-	71979
D6 (FM34)	12/05/23	06:26:06	06:39:30	00:13:08	-----	304-	82-	122-	65045
B6 (FM18)	12/05/23	06:28:00	06:41:08	00:01:37	-----	220-	55-	62-	71980
B7 (FM19)	12/05/23	06:41:30	06:54:48	00:13:17	00:00:22	225-	66-	60-	71980
D7 (FM35)	12/05/23	06:45:56	06:59:18	00:04:30	-----	302-	81-	129-	65045
B8 (FM20)	12/05/23	06:57:45	07:11:06	00:11:48	-----	232-	82-	58-	71980
G2 (FM04)	12/05/23	07:00:47	07:07:37	00:03:02	-----	345-	10-	282-	74213
D8 (FM36)	12/05/23	07:06:36	07:19:47	00:12:09	-----	298-	57-	140-	65045
B4 (FM16)	12/05/23	07:13:16	07:26:40	00:06:53	-----	237-	87-	57-	71980
B3 (FM15)	12/05/23	07:28:46	07:42:10	00:13:23	00:02:06	242-	73-	55-	71980
D3 (FM31)	12/05/23	07:28:48	07:40:54	00:01:01	-----	289-	30-	158-	65045
B2 (FM14)	12/05/23	07:43:29	07:56:47	00:13:17	00:02:34	248-	61-	54-	71980
D2 (FM30)	12/05/23	07:50:39	08:02:22	00:05:35	-----	287-	26-	163-	65045
A8 (FM12)	12/05/23	07:52:55	07:59:06	00:03:01	-----	159-	8-	103-	75402
B1 (FM13)	12/05/23	07:59:12	08:12:24	00:13:11	00:00:06	254-	53-	53-	71980
A5 (FM09)	12/05/23	08:05:58	08:13:55	00:01:30	-----	168-	11-	92-	75402
D6 (FM34)	12/05/23	08:12:40	08:23:48	00:09:52	-----	283-	21-	170-	65046
B6 (FM18)	12/05/23	08:14:04	08:27:01	00:03:13	-----	263-	42-	53-	71981
A7 (FM11)	12/05/23	08:17:06	08:26:23	00:00:03	-----	177-	14-	85-	75402
B7 (FM19)	12/05/23	08:27:52	08:40:39	00:12:46	00:01:29	267-	38-	53-	71981
A6 (FM10)	12/05/23	08:28:23	08:38:25	00:02:01	-----	183-	17-	80-	75402
D7 (FM35)	12/05/23	08:32:56	08:42:50	00:04:24	-----	276-	16-	181-	65046
A2 (FM06)	12/05/23	08:41:25	08:52:24	00:09:33	-----	191-	22-	75-	75402
B8 (FM20)	12/05/23	08:44:25	08:56:57	00:04:33	-----	273-	33-	53-	71981

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D8 (FM36)	12/05/23	08:54:37	09:01:57	00:05:00	-----	266-	10-	197-	65046
A1 (FM05)	12/05/23	08:54:47	09:06:23	00:04:25	-----	196-	27-	71-	75401
B4 (FM16)	12/05/23	09:00:07	09:12:32	00:06:09	-----	276-	31-	53-	71981
A3 (FM07)	12/05/23	09:06:40	09:18:42	00:06:09	-----	202-	32-	68-	75402
B3 (FM15)	12/05/23	09:15:50	09:28:05	00:09:23	-----	281-	29-	54-	71981
A4 (FM08)	12/05/23	09:20:01	09:32:30	00:04:25	-----	212-	42-	65-	75403
B2 (FM14)	12/05/23	09:30:43	09:42:47	00:10:16	-----	285-	27-	55-	71981
A8 (FM12)	12/05/23	09:34:12	09:47:00	00:04:12	-----	219-	52-	63-	75403
B1 (FM13)	12/05/23	09:46:33	09:58:31	00:11:30	-----	289-	26-	57-	71981
A5 (FM09)	12/05/23	09:48:09	10:01:08	00:02:36	-----	224-	63-	61-	75403
A7 (FM11)	12/05/23	10:00:00	10:13:03	00:11:55	-----	230-	76-	59-	75403
B6 (FM18)	12/05/23	10:01:31	10:13:21	00:00:17	-----	295-	25-	60-	71982
A6 (FM10)	12/05/23	10:11:44	10:24:50	00:11:29	-----	234-	86-	57-	75403
B7 (FM19)	12/05/23	10:15:19	10:27:07	00:02:16	-----	298-	25-	63-	71982
A2 (FM06)	12/05/23	10:25:21	10:38:29	00:11:21	-----	240-	79-	56-	75403
B8 (FM20)	12/05/23	10:31:49	10:43:35	00:05:06	-----	301-	25-	66-	71982
C2 (FM22)	12/05/23	10:32:17	10:40:25	00:03:01	-----	168-	11-	91-	71301
A1 (FM05)	12/05/23	10:39:09	10:52:14	00:11:49	-----	245-	67-	55-	75402
B4 (FM16)	12/05/23	10:47:28	10:59:19	00:07:04	-----	302-	25-	68-	71982
A3 (FM07)	12/05/23	10:51:24	11:04:24	00:05:05	-----	250-	58-	54-	75403
C5 (FM25)	12/05/23	10:58:22	11:09:07	00:04:42	-----	187-	19-	77-	71302
B3 (FM15)	12/05/23	11:03:04	11:15:02	00:05:54	-----	304-	26-	72-	71982
A4 (FM08)	12/05/23	11:05:15	11:18:03	00:03:01	-----	257-	48-	52-	75404
B2 (FM14)	12/05/23	11:17:48	11:29:54	00:11:50	-----	306-	27-	76-	71982
A8 (FM12)	12/05/23	11:19:47	11:32:28	00:02:34	-----	262-	42-	52-	75404
C1 (FM21)	12/05/23	11:25:10	11:37:14	00:04:46	-----	200-	30-	71-	71302
B1 (FM13)	12/05/23	11:33:30	11:45:45	00:08:31	-----	307-	29-	80-	71982
A5 (FM09)	12/05/23	11:34:01	11:46:33	00:00:48	-----	266-	38-	51-	75404
C7 (FM27)	12/05/23	11:40:12	11:52:48	00:06:14	-----	208-	39-	66-	71302
C4 (FM24)	12/05/23	11:40:52	11:53:24	00:00:35	-----	207-	37-	66-	71302
A7 (FM11)	12/05/23	11:46:07	11:58:28	00:05:04	-----	271-	34-	52-	75404
B6 (FM18)	12/05/23	11:48:11	12:00:44	00:02:16	-----	308-	33-	88-	71983
C3 (FM23)	12/05/23	11:50:10	12:02:59	00:02:14	-----	212-	44-	64-	71302
A6 (FM10)	12/05/23	11:58:02	12:10:15	00:07:16	-----	274-	32-	53-	75404
B7 (FM19)	12/05/23	12:01:50	12:14:33	00:04:17	-----	308-	37-	92-	71983
A2 (FM06)	12/05/23	12:11:53	12:23:55	00:09:22	-----	279-	29-	53-	75404
C2 (FM22)	12/05/23	12:14:51	12:28:04	00:04:08	-----	224-	63-	61-	71302
B8 (FM20)	12/05/23	12:18:09	12:31:02	00:02:57	-----	308-	41-	98-	71983
A1 (FM05)	12/05/23	12:25:52	12:37:45	00:06:42	-----	283-	27-	54-	75403
B4 (FM16)	12/05/23	12:33:41	12:46:44	00:08:58	-----	308-	46-	102-	71983
A3 (FM07)	12/05/23	12:38:14	12:50:00	00:03:15	-----	287-	26-	55-	75404
C5 (FM25)	12/05/23	12:42:24	12:55:48	00:05:48	-----	236-	87-	57-	71303
B3 (FM15)	12/05/23	12:49:10	13:02:22	00:06:33	-----	307-	53-	107-	71983
A4 (FM08)	12/05/23	12:52:12	13:03:46	00:01:24	-----	291-	25-	55-	75405
B2 (FM14)	12/05/23	13:03:48	13:17:06	00:13:18	00:00:01	306-	63-	113-	71983
A8 (FM12)	12/05/23	13:06:47	13:18:19	00:01:13	-----	295-	24-	59-	75405
C1 (FM21)	12/05/23	13:10:08	13:23:26	00:05:06	-----	247-	64-	54-	71303
B1 (FM13)	12/05/23	13:19:25	13:32:48	00:09:21	-----	305-	74-	118-	71983
A5 (FM09)	12/05/23	13:21:01	13:32:33	00:00:01	-----	297-	24-	59-	75405
G2 (FM04)	12/05/23	13:24:24	13:26:29	00:06:03	-----	54-	5-	31-	74217

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C7 (FM27)	12/05/23	13:25:41	13:38:50	00:12:20	-----	254-	52-	53-	71303
C4 (FM24)	12/05/23	13:26:16	13:39:27	00:00:36	-----	253-	54-	54-	71303
A7 (FM11)	12/05/23	13:33:05	13:44:36	00:05:09	-----	300-	24-	64-	75405
B6 (FM18)	12/05/23	13:34:02	13:47:25	00:02:48	-----	302-	83-	128-	71984
C3 (FM23)	12/05/23	13:35:51	13:48:57	00:01:31	-----	257-	48-	53-	71303
A6 (FM10)	12/05/23	13:44:58	13:56:31	00:07:33	-----	302-	24-	66-	75405
B7 (FM19)	12/05/23	13:47:41	14:00:59	00:04:27	-----	300-	70-	133-	71984
A2 (FM06)	12/05/23	13:58:44	14:10:21	00:09:22	-----	304-	25-	69-	75405
C2 (FM22)	12/05/23	14:01:07	14:13:55	00:03:34	-----	266-	39-	51-	71303
B8 (FM20)	12/05/23	14:04:02	14:17:08	00:03:13	-----	298-	56-	140-	71984
A1 (FM05)	12/05/23	14:12:36	14:24:19	00:07:11	-----	305-	26-	73-	75404
B4 (FM16)	12/05/23	14:19:37	14:32:34	00:08:14	-----	296-	47-	144-	71984
A3 (FM07)	12/05/23	14:24:50	14:36:42	00:04:07	-----	307-	27-	76-	75405
C5 (FM25)	12/05/23	14:29:13	14:41:39	00:04:57	-----	276-	31-	53-	71304
B3 (FM15)	12/05/23	14:35:12	14:47:49	00:06:09	-----	293-	38-	151-	71984
A4 (FM08)	12/05/23	14:38:36	14:50:38	00:02:49	-----	307-	29-	80-	75406
B2 (FM14)	12/05/23	14:50:00	15:02:07	00:11:29	-----	289-	30-	158-	71984
A8 (FM12)	12/05/23	14:53:02	15:05:16	00:03:09	-----	308-	32-	86-	75406
G2 (FM04)	12/05/23	14:56:41	15:09:04	00:03:47	-----	134-	43-	347-	74218
C1 (FM21)	12/05/23	14:57:19	15:09:24	00:00:20	-----	284-	27-	53-	71304
B1 (FM13)	12/05/23	15:05:50	15:17:21	00:07:56	-----	285-	24-	165-	71984
A5 (FM09)	12/05/23	15:07:07	15:19:33	00:02:11	-----	308-	35-	89-	75406
C7 (FM27)	12/05/23	15:13:02	15:24:57	00:05:23	-----	289-	26-	57-	71304
C4 (FM24)	12/05/23	15:13:35	15:25:32	00:00:34	-----	289-	26-	57-	71304
A7 (FM11)	12/05/23	15:19:03	15:31:38	00:06:06	-----	308-	38-	95-	75406
B6 (FM18)	12/05/23	15:20:58	15:31:02	00:00:03	-----	277-	17-	179-	71985
C3 (FM23)	12/05/23	15:23:14	15:35:07	00:04:04	-----	292-	25-	58-	71304
A6 (FM10)	12/05/23	15:30:49	15:43:32	00:08:24	-----	308-	42-	99-	75406
B7 (FM19)	12/05/23	15:35:01	15:44:00	00:00:27	-----	272-	13-	188-	71985
A2 (FM06)	12/05/23	15:44:27	15:57:18	00:12:51	00:00:27	308-	48-	104-	75406
C2 (FM22)	12/05/23	15:48:33	16:00:20	00:03:01	-----	297-	24-	60-	71304
B8 (FM20)	12/05/23	15:52:05	15:59:11	00:01:08	-----	262-	9-	200-	71985
A1 (FM05)	12/05/23	15:58:12	16:11:12	00:12:00	-----	307-	56-	109-	75405
B4 (FM16)	12/05/23	16:08:30	16:13:39	00:02:26	-----	253-	7-	212-	71985
A3 (FM07)	12/05/23	16:10:22	16:23:28	00:09:49	-----	306-	64-	113-	75406
C5 (FM25)	12/05/23	16:16:33	16:28:25	00:04:57	-----	302-	25-	68-	71305
A4 (FM08)	12/05/23	16:24:02	16:37:11	00:08:45	-----	304-	79-	120-	75407
G2 (FM04)	12/05/23	16:36:06	16:47:08	00:09:56	-----	194-	23-	312-	74219
A8 (FM12)	12/05/23	16:38:26	16:51:37	00:04:28	-----	303-	87-	126-	75407
C1 (FM21)	12/05/23	16:44:26	16:56:28	00:04:51	-----	305-	27-	73-	71305
A5 (FM09)	12/05/23	16:52:31	17:05:40	00:09:11	-----	301-	74-	131-	75407
C7 (FM27)	12/05/23	16:59:58	17:12:12	00:06:31	-----	307-	29-	80-	71305
C4 (FM24)	12/05/23	17:00:32	17:12:45	00:00:32	-----	307-	29-	80-	71305
A7 (FM11)	12/05/23	17:04:27	17:17:29	00:04:44	-----	299-	62-	136-	75407
C3 (FM23)	12/05/23	17:10:04	17:22:25	00:04:55	-----	307-	30-	83-	71305
A6 (FM10)	12/05/23	17:16:16	17:29:09	00:06:44	-----	297-	53-	141-	75407
A2 (FM06)	12/05/23	17:29:59	17:42:35	00:12:36	00:00:49	294-	43-	147-	75407
C2 (FM22)	12/05/23	17:35:06	17:47:45	00:05:09	-----	308-	35-	89-	71305
A1 (FM05)	12/05/23	17:43:51	17:56:06	00:08:21	-----	292-	35-	154-	75406
A3 (FM07)	12/05/23	17:56:10	18:08:00	00:11:50	00:00:03	289-	29-	159-	75407

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
C5 (FM25)	12/05/23	18:02:47	18:15:50	00:07:49	-----	308-	46-	101-	71306
A4 (FM08)	12/05/23	18:10:06	18:21:08	00:05:18	-----	284-	22-	169-	75408
A8 (FM12)	12/05/23	18:24:49	18:35:02	00:10:13	00:03:40	279-	17-	176-	75408
C1 (FM21)	12/05/23	18:30:26	18:43:42	00:08:39	-----	306-	61-	111-	71306
A5 (FM09)	12/05/23	18:39:16	18:48:32	00:04:49	-----	275-	14-	184-	75408
C7 (FM27)	12/05/23	18:45:52	18:59:15	00:10:43	-----	305-	74-	118-	71306
C4 (FM24)	12/05/23	18:46:27	18:59:49	00:00:34	-----	305-	72-	117-	71306
A7 (FM11)	12/05/23	18:51:43	18:59:35	00:00:01	-----	267-	11-	193-	75408
C3 (FM23)	12/05/23	18:55:56	19:09:20	00:09:44	-----	304-	82-	122-	71306
A6 (FM10)	12/05/23	19:04:05	19:10:34	00:01:14	-----	260-	9-	202-	75408
C2 (FM22)	12/05/23	19:20:56	19:34:16	00:13:20	00:10:21	301-	74-	131-	71306
C5 (FM25)	12/05/23	19:48:42	20:01:40	00:12:58	00:14:26	296-	48-	144-	71307
C1 (FM21)	12/05/23	20:16:35	20:28:48	00:12:13	00:14:54	290-	32-	157-	71307
C7 (FM27)	12/05/23	20:32:17	20:43:48	00:11:31	00:03:28	285-	24-	165-	71307
C4 (FM24)	12/05/23	20:32:48	20:44:28	00:00:39	-----	286-	25-	164-	71307
C3 (FM23)	12/05/23	20:42:29	20:53:36	00:09:07	-----	283-	21-	170-	71307
C2 (FM22)	12/05/23	21:08:06	21:17:30	00:09:23	00:14:30	275-	14-	184-	71307
D7 (FM35)	12/05/23	21:26:50	21:32:36	00:05:46	00:09:20	156-	8-	101-	65054
C5 (FM25)	12/05/23	21:37:30	21:42:49	00:05:18	00:04:54	254-	7-	211-	71308
D8 (FM36)	12/05/23	21:45:29	21:54:38	00:09:09	00:02:39	175-	14-	90-	65054
D3 (FM31)	12/05/23	22:05:42	22:17:30	00:11:47	00:11:03	196-	27-	71-	65054
D2 (FM30)	12/05/23	22:27:10	22:39:21	00:12:10	00:09:40	201-	31-	69-	65054
D6 (FM34)	12/05/23	22:48:42	23:01:16	00:12:34	00:09:20	207-	38-	66-	65055
D7 (FM35)	12/05/23	23:08:12	23:21:12	00:13:00	00:06:56	217-	50-	63-	65055
D8 (FM36)	12/05/23	23:28:35	23:41:54	00:13:19	00:07:22	228-	72-	60-	65055
D3 (FM31)	12/05/23	23:50:28	00:03:48	00:13:20	00:08:33	245-	68-	55-	65055
D2 (FM30)	12/05/24	00:12:15	00:25:31	00:13:16	00:08:26	248-	61-	54-	65055
D6 (FM34)	12/05/24	00:34:08	00:47:18	00:13:10	00:08:36	253-	53-	53-	65056
D7 (FM35)	12/05/24	00:54:07	01:07:07	00:13:00	00:06:48	260-	44-	53-	65056
D8 (FM36)	12/05/24	01:15:03	01:27:45	00:12:42	00:07:56	269-	36-	51-	65056
D3 (FM31)	12/05/24	01:37:36	01:49:44	00:12:08	00:09:50	283-	28-	54-	65056
D2 (FM30)	12/05/24	01:59:29	02:11:31	00:12:02	00:09:44	286-	27-	55-	65056
D6 (FM34)	12/05/24	02:21:28	02:33:24	00:11:55	00:09:57	289-	26-	57-	65057
D7 (FM35)	12/05/24	02:41:33	02:53:22	00:11:49	00:08:08	294-	25-	59-	65057
D8 (FM36)	12/05/24	03:02:29	03:14:18	00:11:48	00:09:06	298-	24-	62-	65057
D3 (FM31)	12/05/24	03:24:47	03:36:45	00:11:58	00:10:28	305-	26-	73-	65057
D2 (FM30)	12/05/24	03:46:34	03:58:38	00:12:04	00:09:48	306-	27-	76-	65057
D6 (FM34)	12/05/24	04:08:25	04:20:39	00:12:13	00:09:47	307-	29-	80-	65058
B6 (FM18)	12/05/24	04:15:10	04:20:26	00:00:01	-----	151-	7-	103-	71993
B7 (FM19)	12/05/24	04:27:33	04:35:02	00:07:29	00:07:06	164-	10-	96-	71993
D7 (FM35)	12/05/24	04:28:18	04:40:44	00:05:41	-----	308-	32-	85-	65058
B8 (FM20)	12/05/24	04:42:50	04:52:04	00:09:14	00:02:05	175-	14-	86-	71993
D8 (FM36)	12/05/24	04:48:56	05:01:45	00:09:40	-----	308-	38-	93-	65058
G2 (FM04)	12/05/24	04:54:41	05:07:12	00:05:27	-----	30-	61-	194-	74226
B4 (FM16)	12/05/24	04:57:49	05:07:57	00:00:45	-----	182-	17-	81-	71993
D3 (FM31)	12/05/24	05:10:50	05:24:03	00:13:13	00:02:52	307-	56-	109-	65058
B3 (FM15)	12/05/24	05:12:41	05:23:47	00:00:01	-----	190-	21-	76-	71993
B2 (FM14)	12/05/24	05:26:52	05:38:41	00:11:49	00:03:05	196-	27-	71-	71993
D2 (FM30)	12/05/24	05:32:33	05:45:51	00:07:09	-----	306-	63-	113-	65058
B1 (FM13)	12/05/24	05:42:08	05:54:29	00:08:37	-----	203-	33-	68-	71993

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
D6 (FM34)	12/05/24	05:54:20	06:07:43	00:13:13	-----	305-	73-	118-	65059
B6 (FM18)	12/05/24	05:56:18	06:09:17	00:01:34	-----	216-	48-	64-	71994
B7 (FM19)	12/05/24	06:09:47	06:22:58	00:13:10	00:00:29	221-	58-	62-	71994
D7 (FM35)	12/05/24	06:14:09	06:27:32	00:04:34	-----	303-	90-	125-	65059
B8 (FM20)	12/05/24	06:25:59	06:39:17	00:11:45	-----	228-	72-	59-	71994
G2 (FM04)	12/05/24	06:34:14	06:44:02	00:04:44	-----	358-	18-	257-	74227
D8 (FM36)	12/05/24	06:34:47	06:48:05	00:04:02	-----	300-	65-	135-	65059
B4 (FM16)	12/05/24	06:41:29	06:54:52	00:06:46	-----	233-	84-	58-	71994
D3 (FM31)	12/05/24	06:56:55	07:09:22	00:12:26	00:02:03	292-	35-	154-	65059
B3 (FM15)	12/05/24	06:56:56	07:10:21	00:00:58	-----	239-	82-	56-	71994
B2 (FM14)	12/05/24	07:11:38	07:25:00	00:13:21	00:01:17	245-	68-	55-	71994
D2 (FM30)	12/05/24	07:18:45	07:30:52	00:05:52	-----	289-	30-	158-	65059
B1 (FM13)	12/05/24	07:27:20	07:40:37	00:09:44	-----	250-	58-	54-	71994
A5 (FM09)	12/05/24	07:29:47	07:35:27	00:05:09	-----	152-	8-	103-	75416
A7 (FM11)	12/05/24	07:40:33	07:48:12	00:07:39	00:05:06	166-	10-	95-	75416
D6 (FM34)	12/05/24	07:40:43	07:52:19	00:04:06	-----	286-	25-	164-	65060
B6 (FM18)	12/05/24	07:42:09	07:55:13	00:02:54	-----	259-	46-	53-	71995
A6 (FM10)	12/05/24	07:51:39	08:00:25	00:05:11	-----	174-	13-	88-	75416
B7 (FM19)	12/05/24	07:55:56	08:08:50	00:08:25	-----	264-	41-	53-	71995
D7 (FM35)	12/05/24	08:00:53	08:11:27	00:02:37	-----	280-	19-	174-	65060
A2 (FM06)	12/05/24	08:04:31	08:14:32	00:03:05	-----	183-	17-	81-	75416
B8 (FM20)	12/05/24	08:12:28	08:25:08	00:10:35	-----	269-	36-	53-	71995
A1 (FM05)	12/05/24	08:17:45	08:28:38	00:03:29	-----	190-	21-	76-	75415
D8 (FM36)	12/05/24	08:22:20	08:30:50	00:02:12	-----	271-	12-	190-	65060
B4 (FM16)	12/05/24	08:28:10	08:40:42	00:09:52	-----	273-	33-	53-	71995
A3 (FM07)	12/05/24	08:29:33	08:41:01	00:00:18	-----	197-	26-	72-	75416
A4 (FM08)	12/05/24	08:42:48	08:54:52	00:12:03	00:01:46	204-	33-	69-	75417
B3 (FM15)	12/05/24	08:43:52	08:56:13	00:01:21	-----	278-	30-	53-	71995
A8 (FM12)	12/05/24	08:56:56	09:09:24	00:12:28	00:00:42	211-	41-	65-	75417
B2 (FM14)	12/05/24	08:58:46	09:10:56	00:01:31	-----	283-	28-	54-	71995
A5 (FM09)	12/05/24	09:10:49	09:23:35	00:12:38	-----	217-	50-	64-	75417
B1 (FM13)	12/05/24	09:14:36	09:26:39	00:03:04	-----	287-	27-	56-	71995
A7 (FM11)	12/05/24	09:22:35	09:35:31	00:08:52	-----	223-	61-	61-	75417
B6 (FM18)	12/05/24	09:29:34	09:41:27	00:05:55	-----	293-	25-	59-	71996
A6 (FM10)	12/05/24	09:34:17	09:47:19	00:05:51	-----	227-	71-	59-	75417
B7 (FM19)	12/05/24	09:43:23	09:55:12	00:07:52	-----	296-	25-	61-	71996
A2 (FM06)	12/05/24	09:47:50	10:00:58	00:05:46	-----	233-	86-	58-	75417
B8 (FM20)	12/05/24	09:59:54	10:11:40	00:10:41	-----	299-	24-	64-	71996
C2 (FM22)	12/05/24	10:01:08	10:07:55	00:03:04	-----	162-	9-	97-	71315
A1 (FM05)	12/05/24	10:01:37	10:14:45	00:06:49	-----	239-	81-	56-	75416
A3 (FM07)	12/05/24	10:13:50	10:26:56	00:12:11	-----	244-	70-	55-	75417
B4 (FM16)	12/05/24	10:15:34	10:27:23	00:00:26	-----	301-	25-	66-	71996
C5 (FM25)	12/05/24	10:26:51	10:36:56	00:09:33	-----	182-	16-	81-	71316
A4 (FM08)	12/05/24	10:27:37	10:40:33	00:03:37	-----	251-	57-	53-	75418
B3 (FM15)	12/05/24	10:31:10	10:43:04	00:02:30	-----	303-	25-	70-	71996
A8 (FM12)	12/05/24	10:42:07	10:54:58	00:11:53	-----	256-	49-	53-	75418
B2 (FM14)	12/05/24	10:45:57	10:57:56	00:02:58	-----	305-	26-	74-	71996
C1 (FM21)	12/05/24	10:53:30	11:05:10	00:07:13	-----	194-	26-	74-	71316
A5 (FM09)	12/05/24	10:56:20	11:09:03	00:03:53	-----	261-	43-	52-	75418
B1 (FM13)	12/05/24	11:01:39	11:13:48	00:04:44	-----	306-	28-	78-	71996

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
A7 (FM11)	12/05/24	11:08:24	11:20:57	00:07:08	-----	266-	39-	52-	75418
C7 (FM27)	12/05/24	11:08:38	11:20:57	00:00:00	-----	203-	33-	68-	71316
C4 (FM24)	12/05/24	11:09:12	11:21:25	00:00:28	-----	202-	32-	68-	71316
B6 (FM18)	12/05/24	11:16:21	11:28:47	00:07:22	-----	307-	31-	85-	71997
C3 (FM23)	12/05/24	11:18:24	11:30:58	00:02:11	-----	207-	38-	66-	71316
A6 (FM10)	12/05/24	11:20:19	11:32:43	00:01:45	-----	269-	35-	52-	75418
B7 (FM19)	12/05/24	11:30:01	11:42:36	00:09:52	-----	308-	34-	89-	71997
A2 (FM06)	12/05/24	11:34:08	11:46:22	00:03:46	-----	274-	32-	52-	75418
C2 (FM22)	12/05/24	11:43:00	11:56:06	00:09:43	-----	219-	54-	63-	71316
B8 (FM20)	12/05/24	11:46:20	11:59:06	00:03:00	-----	308-	38-	94-	71997
A1 (FM05)	12/05/24	11:48:07	12:00:11	00:01:05	-----	279-	30-	53-	75417
A3 (FM07)	12/05/24	12:00:30	12:12:26	00:11:55	00:00:19	282-	28-	54-	75418
B4 (FM16)	12/05/24	12:01:53	12:14:49	00:02:23	-----	308-	42-	98-	71997
C5 (FM25)	12/05/24	12:10:28	12:23:51	00:09:02	-----	232-	83-	58-	71317
A4 (FM08)	12/05/24	12:14:28	12:26:09	00:02:17	-----	287-	26-	53-	75419
B3 (FM15)	12/05/24	12:17:21	12:30:27	00:04:18	-----	307-	48-	104-	71997
A8 (FM12)	12/05/24	12:29:03	12:40:40	00:10:13	-----	291-	25-	57-	75419
B2 (FM14)	12/05/24	12:32:00	12:45:14	00:04:33	-----	307-	57-	109-	71997
C1 (FM21)	12/05/24	12:38:09	12:51:30	00:06:16	-----	243-	71-	55-	71317
A5 (FM09)	12/05/24	12:43:20	12:54:53	00:03:23	-----	294-	24-	57-	75419
B1 (FM13)	12/05/24	12:47:37	13:00:58	00:06:04	-----	305-	66-	115-	71997
C7 (FM27)	12/05/24	12:53:50	13:07:05	00:06:07	-----	250-	58-	54-	71317
C4 (FM24)	12/05/24	12:54:18	13:07:34	00:00:29	-----	249-	60-	54-	71317
A7 (FM11)	12/05/24	12:55:24	13:06:55	00:00:03	-----	297-	24-	61-	75419
B6 (FM18)	12/05/24	13:02:13	13:15:38	00:08:42	-----	303-	87-	124-	71998
C3 (FM23)	12/05/24	13:03:50	13:17:01	00:01:23	-----	253-	53-	53-	71317
A6 (FM10)	12/05/24	13:07:18	13:18:48	00:01:47	-----	299-	24-	63-	75419
B7 (FM19)	12/05/24	13:15:51	13:29:13	00:10:24	-----	302-	79-	129-	71998
A2 (FM06)	12/05/24	13:21:05	13:32:37	00:03:23	-----	302-	24-	66-	75419
C2 (FM22)	12/05/24	13:29:03	13:41:59	00:09:21	-----	262-	42-	52-	71317
B8 (FM20)	12/05/24	13:32:12	13:45:25	00:03:26	-----	299-	64-	135-	71998
A1 (FM05)	12/05/24	13:35:00	13:46:35	00:01:10	-----	304-	25-	69-	75418
A3 (FM07)	12/05/24	13:47:16	13:58:58	00:11:42	00:00:40	305-	25-	72-	75419
B4 (FM16)	12/05/24	13:47:47	14:00:53	00:01:54	-----	298-	55-	140-	71998
C5 (FM25)	12/05/24	13:57:08	14:09:41	00:08:48	-----	273-	33-	53-	71318
A4 (FM08)	12/05/24	14:01:03	14:12:53	00:03:11	-----	306-	27-	75-	75420
B3 (FM15)	12/05/24	14:03:19	14:16:10	00:03:16	-----	295-	44-	147-	71998
A8 (FM12)	12/05/24	14:15:29	14:27:31	00:11:21	-----	308-	29-	81-	75420
B2 (FM14)	12/05/24	14:18:06	14:30:32	00:03:00	-----	292-	35-	154-	71998
C1 (FM21)	12/05/24	14:25:13	14:37:25	00:06:53	-----	281-	29-	53-	71318
A5 (FM09)	12/05/24	14:29:36	14:41:50	00:04:24	-----	308-	31-	84-	75420
G2 (FM04)	12/05/24	14:32:04	14:43:11	00:01:21	-----	117-	25-	357-	74232
B1 (FM13)	12/05/24	14:33:53	14:45:51	00:02:40	-----	288-	28-	161-	71998
C7 (FM27)	12/05/24	14:41:07	14:53:07	00:07:15	-----	287-	27-	56-	71318
A7 (FM11)	12/05/24	14:41:32	14:53:55	00:00:48	-----	308-	34-	90-	75420
C4 (FM24)	12/05/24	14:41:33	14:53:35	00:00:02	-----	286-	27-	55-	71318
B6 (FM18)	12/05/24	14:48:55	14:59:40	00:06:04	-----	281-	19-	173-	71999
C3 (FM23)	12/05/24	14:51:09	15:03:06	00:03:26	-----	289-	26-	57-	71318
A6 (FM10)	12/05/24	14:53:19	15:05:50	00:02:43	-----	308-	37-	93-	75420
B7 (FM19)	12/05/24	15:02:53	15:12:42	00:06:52	-----	276-	16-	181-	71999

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A2 (FM06)	12/05/24	15:06:57	15:19:38	00:06:55	-----	308-	42-	98-	75420
C2 (FM22)	12/05/24	15:16:29	15:28:17	00:08:39	-----	294-	25-	58-	71318
B8 (FM20)	12/05/24	15:19:46	15:28:06	00:00:01	-----	268-	12-	192-	71999
A1 (FM05)	12/05/24	15:20:43	15:33:34	00:05:28	-----	308-	47-	103-	75419
A3 (FM07)	12/05/24	15:32:54	15:45:52	00:12:18	-----	307-	54-	108-	75420
B4 (FM16)	12/05/24	15:35:56	15:42:50	00:03:02	-----	261-	9-	201-	71999
C5 (FM25)	12/05/24	15:44:31	15:56:21	00:11:49	00:01:41	301-	25-	66-	71319
A4 (FM08)	12/05/24	15:46:32	15:59:38	00:03:16	-----	306-	66-	114-	75421
B3 (FM15)	12/05/24	15:52:48	15:56:34	00:03:03	-----	250-	6-	215-	71999
A8 (FM12)	12/05/24	16:00:55	16:14:06	00:13:10	00:04:21	304-	78-	120-	75421
G2 (FM04)	12/05/24	16:09:46	16:22:14	00:08:08	-----	175-	43-	325-	74233
C1 (FM21)	12/05/24	16:12:25	16:24:23	00:02:08	-----	304-	26-	71-	71319
A5 (FM09)	12/05/24	16:15:01	16:28:13	00:03:49	-----	303-	90-	125-	75421
A7 (FM11)	12/05/24	16:26:56	16:40:05	00:11:51	-----	301-	77-	130-	75421
C7 (FM27)	12/05/24	16:28:09	16:40:17	00:00:12	-----	306-	28-	78-	71319
C4 (FM24)	12/05/24	16:28:36	16:40:42	00:00:25	-----	306-	27-	77-	71319
C3 (FM23)	12/05/24	16:38:06	16:50:19	00:09:37	-----	307-	29-	80-	71319
A6 (FM10)	12/05/24	16:38:43	16:51:47	00:01:28	-----	300-	67-	134-	75421
A2 (FM06)	12/05/24	16:52:24	17:05:16	00:12:52	00:00:36	297-	54-	140-	75421
C2 (FM22)	12/05/24	17:03:09	17:15:40	00:10:24	-----	308-	33-	86-	71319
A1 (FM05)	12/05/24	17:06:14	17:18:54	00:03:13	-----	295-	44-	147-	75420
A3 (FM07)	12/05/24	17:18:31	17:30:52	00:11:58	-----	292-	36-	152-	75421
C5 (FM25)	12/05/24	17:30:51	17:43:47	00:12:54	-----	308-	42-	98-	71320
A4 (FM08)	12/05/24	17:32:22	17:44:06	00:00:19	-----	288-	28-	161-	75422
A8 (FM12)	12/05/24	17:46:58	17:58:06	00:11:07	00:02:52	284-	22-	167-	75422
C1 (FM21)	12/05/24	17:58:30	18:11:42	00:13:11	00:00:24	307-	54-	107-	71320
A5 (FM09)	12/05/24	18:01:20	18:11:43	00:00:01	-----	280-	18-	175-	75422
A7 (FM11)	12/05/24	18:13:36	18:23:02	00:09:26	00:01:52	275-	15-	182-	75422
C7 (FM27)	12/05/24	18:14:06	18:27:26	00:04:24	-----	306-	67-	115-	71320
C4 (FM24)	12/05/24	18:14:34	18:27:53	00:00:26	-----	306-	64-	113-	71320
C3 (FM23)	12/05/24	18:24:00	18:37:22	00:09:29	-----	305-	73-	118-	71320
A6 (FM10)	12/05/24	18:25:45	18:34:12	00:03:01	-----	270-	12-	189-	75422
A2 (FM06)	12/05/24	18:40:10	18:46:44	00:06:33	00:05:58	260-	9-	203-	75422
C2 (FM22)	12/05/24	18:48:59	19:02:21	00:13:22	00:02:14	302-	84-	127-	71320
A1 (FM05)	12/05/24	18:55:19	18:58:52	00:03:02	-----	250-	6-	215-	75421
C5 (FM25)	12/05/24	19:16:43	19:29:51	00:13:08	00:17:50	298-	55-	140-	71321
C1 (FM21)	12/05/24	19:44:33	19:57:05	00:12:31	00:14:41	293-	37-	153-	71321
C7 (FM27)	12/05/24	20:00:22	20:12:19	00:11:56	00:03:17	288-	28-	160-	71321
C4 (FM24)	12/05/24	20:00:47	20:12:51	00:00:31	-----	289-	29-	159-	71321
C3 (FM23)	12/05/24	20:10:23	20:22:00	00:09:08	-----	286-	25-	165-	71321
C2 (FM22)	12/05/24	20:35:52	20:46:02	00:10:09	00:13:52	279-	17-	178-	71321
C5 (FM25)	12/05/24	21:04:49	21:11:51	00:07:02	00:18:47	262-	9-	200-	71322
D8 (FM36)	12/05/24	21:14:18	21:22:26	00:08:08	00:02:27	168-	11-	91-	65068
D3 (FM31)	12/05/24	21:34:12	21:45:34	00:11:22	00:11:45	193-	23-	74-	65068
D2 (FM30)	12/05/24	21:55:39	22:07:27	00:11:48	00:10:04	196-	27-	71-	65068
D6 (FM34)	12/05/24	22:17:07	22:29:24	00:12:16	00:09:40	203-	33-	68-	65069
D7 (FM35)	12/05/24	22:36:34	22:49:22	00:12:47	00:07:10	211-	43-	64-	65069
D8 (FM36)	12/05/24	22:56:52	23:10:06	00:13:13	00:07:30	224-	63-	61-	65069
D3 (FM31)	12/05/24	23:18:40	23:32:02	00:13:22	00:08:33	241-	77-	56-	65069
D2 (FM30)	12/05/24	23:40:25	23:53:45	00:13:20	00:08:23	245-	68-	55-	65069

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
D6 (FM34)	12/05/25	00:02:17	00:15:33	00:13:15	00:08:32	250-	59-	54-	65070
D7 (FM35)	12/05/25	00:22:14	00:35:20	00:13:06	00:06:41	256-	49-	53-	65070
D8 (FM36)	12/05/25	00:43:08	00:55:58	00:12:49	00:07:48	265-	39-	51-	65070
D3 (FM31)	12/05/25	01:05:40	01:17:56	00:12:15	00:09:42	280-	29-	54-	65070
D2 (FM30)	12/05/25	01:27:33	01:39:42	00:12:08	00:09:37	283-	28-	54-	65070
D6 (FM34)	12/05/25	01:49:33	02:01:34	00:12:00	00:09:51	287-	27-	56-	65071
D7 (FM35)	12/05/25	02:09:38	02:21:30	00:11:52	00:08:03	291-	25-	58-	65071
D8 (FM36)	12/05/25	02:30:35	02:42:24	00:11:48	00:09:04	297-	24-	60-	65071
D3 (FM31)	12/05/25	02:52:56	03:04:50	00:11:53	00:10:32	304-	26-	71-	65071
D2 (FM30)	12/05/25	03:14:44	03:26:42	00:11:58	00:09:54	305-	26-	73-	65071
D6 (FM34)	12/05/25	03:36:36	03:48:43	00:12:06	00:09:53	306-	28-	77-	65072
D7 (FM35)	12/05/25	03:56:29	04:08:48	00:12:18	00:07:45	307-	30-	82-	65072
B7 (FM19)	12/05/25	03:56:38	04:02:34	00:06:01	-----	157-	8-	101-	72007
B8 (FM20)	12/05/25	04:11:37	04:19:50	00:08:13	00:09:03	169-	11-	92-	72007
D8 (FM36)	12/05/25	04:17:09	04:29:50	00:09:59	-----	308-	35-	89-	65072
B4 (FM16)	12/05/25	04:26:29	04:35:53	00:06:02	-----	176-	14-	86-	72007
G2 (FM04)	12/05/25	04:29:35	04:41:11	00:05:18	-----	39-	31-	174-	74240
D3 (FM31)	12/05/25	04:39:04	04:52:12	00:11:01	-----	307-	51-	105-	65072
B3 (FM15)	12/05/25	04:41:15	04:51:45	00:00:02	-----	185-	18-	79-	72007
B2 (FM14)	12/05/25	04:55:20	05:06:44	00:11:23	00:03:35	193-	23-	74-	72007
D2 (FM30)	12/05/25	05:00:47	05:14:00	00:07:16	-----	307-	56-	109-	65072
B1 (FM13)	12/05/25	05:10:34	05:22:34	00:08:34	-----	198-	29-	70-	72007
D6 (FM34)	12/05/25	05:22:34	05:35:54	00:13:19	-----	306-	65-	114-	65073
B6 (FM18)	12/05/25	05:24:40	05:37:24	00:01:30	-----	210-	41-	65-	72008
B7 (FM19)	12/05/25	05:38:05	05:51:07	00:13:02	00:00:40	217-	50-	63-	72008
D7 (FM35)	12/05/25	05:42:22	05:55:45	00:04:38	-----	304-	80-	121-	65073
B8 (FM20)	12/05/25	05:54:14	06:07:28	00:11:42	-----	224-	63-	61-	72008
D8 (FM36)	12/05/25	06:03:00	06:16:21	00:08:53	-----	301-	74-	131-	65073
G2 (FM04)	12/05/25	06:08:11	06:19:42	00:03:20	-----	8-	31-	237-	74241
B4 (FM16)	12/05/25	06:09:43	06:23:03	00:03:20	-----	229-	74-	59-	72008
D3 (FM31)	12/05/25	06:25:04	06:37:47	00:12:43	00:02:01	294-	40-	149-	65073
B3 (FM15)	12/05/25	06:25:07	06:38:31	00:00:44	-----	235-	88-	57-	72008
B2 (FM14)	12/05/25	06:39:48	06:53:11	00:13:23	00:01:16	241-	77-	56-	72008
D2 (FM30)	12/05/25	06:46:52	06:59:19	00:06:07	-----	292-	35-	154-	65073
B1 (FM13)	12/05/25	06:55:29	07:08:49	00:09:30	-----	246-	65-	55-	72008
A7 (FM11)	12/05/25	07:04:27	07:09:37	00:00:48	-----	151-	7-	103-	75430
D6 (FM34)	12/05/25	07:08:49	07:20:49	00:11:11	-----	288-	29-	159-	65074
B6 (FM18)	12/05/25	07:10:15	07:23:25	00:02:35	-----	255-	50-	53-	72009
A6 (FM10)	12/05/25	07:15:13	07:22:11	00:01:01	-----	163-	9-	99-	75430
B7 (FM19)	12/05/25	07:24:01	07:37:02	00:13:00	00:01:49	260-	44-	53-	72009
A2 (FM06)	12/05/25	07:27:47	07:36:32	00:00:02	-----	173-	13-	88-	75430
D7 (FM35)	12/05/25	07:28:54	07:40:03	00:03:31	-----	283-	22-	169-	65074
B8 (FM20)	12/05/25	07:40:32	07:53:19	00:12:47	00:00:28	266-	39-	53-	72009
A1 (FM05)	12/05/25	07:40:53	07:50:46	00:02:03	-----	182-	16-	81-	75429
D8 (FM36)	12/05/25	07:50:10	07:59:36	00:08:50	-----	275-	14-	184-	65074
A3 (FM07)	12/05/25	07:52:35	08:03:16	00:03:39	-----	188-	20-	77-	75430
B4 (FM16)	12/05/25	07:56:14	08:08:53	00:05:37	-----	270-	35-	53-	72009
A4 (FM08)	12/05/25	08:05:41	08:17:12	00:08:18	-----	196-	26-	73-	75431
B3 (FM15)	12/05/25	08:11:54	08:24:23	00:07:10	-----	275-	32-	53-	72009
A8 (FM12)	12/05/25	08:19:43	08:31:46	00:07:23	-----	203-	33-	68-	75431

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max El	LOS Az	Orbit num.
B2 (FM14)	12/05/25	08:26:49	08:39:05	00:07:19	-----	280-	29-	54-	72009
A5 (FM09)	12/05/25	08:33:34	08:46:00	00:06:53	-----	210-	40-	66-	75431
B1 (FM13)	12/05/25	08:42:39	08:54:48	00:08:48	-----	284-	28-	55-	72009
A7 (FM11)	12/05/25	08:45:16	08:57:58	00:03:10	-----	216-	48-	63-	75431
A6 (FM10)	12/05/25	08:56:54	09:09:46	00:11:48	-----	221-	57-	62-	75431
B6 (FM18)	12/05/25	08:57:37	09:09:34	00:00:01	-----	290-	26-	57-	72010
A2 (FM06)	12/05/25	09:10:23	09:23:26	00:13:03	00:00:49	227-	70-	60-	75431
B7 (FM19)	12/05/25	09:11:27	09:23:18	00:00:08	-----	294-	25-	59-	72010
A1 (FM05)	12/05/25	09:24:08	09:37:15	00:13:07	00:00:50	233-	84-	58-	75430
B8 (FM20)	12/05/25	09:27:59	09:39:45	00:02:29	-----	297-	24-	62-	72010
A3 (FM07)	12/05/25	09:36:20	09:49:28	00:09:43	-----	238-	84-	56-	75431
B4 (FM16)	12/05/25	09:43:39	09:55:27	00:05:59	-----	299-	25-	64-	72010
A4 (FM08)	12/05/25	09:50:02	10:03:04	00:07:37	-----	245-	68-	54-	75432
C5 (FM25)	12/05/25	09:55:24	10:04:42	00:01:38	-----	176-	14-	86-	71330
B3 (FM15)	12/05/25	09:59:15	10:11:06	00:06:24	-----	302-	25-	67-	72010
A8 (FM12)	12/05/25	10:04:29	10:17:28	00:06:21	-----	250-	58-	54-	75432
B2 (FM14)	12/05/25	10:14:04	10:26:00	00:08:31	-----	304-	26-	71-	72010
A5 (FM09)	12/05/25	10:18:41	10:31:34	00:05:34	-----	255-	50-	52-	75432
C1 (FM21)	12/05/25	10:21:51	10:33:04	00:01:29	-----	191-	22-	77-	71330
B1 (FM13)	12/05/25	10:29:48	10:41:51	00:08:47	-----	305-	27-	75-	72010
A7 (FM11)	12/05/25	10:30:43	10:43:27	00:01:35	-----	260-	44-	53-	75432
C7 (FM27)	12/05/25	10:37:05	10:49:04	00:05:37	-----	200-	29-	70-	71330
C4 (FM24)	12/05/25	10:37:32	10:49:25	00:00:20	-----	199-	28-	71-	71330
A6 (FM10)	12/05/25	10:42:36	10:55:13	00:05:48	-----	264-	40-	52-	75432
B6 (FM18)	12/05/25	10:44:31	10:56:50	00:01:37	-----	307-	30-	82-	72011
C3 (FM23)	12/05/25	10:46:40	10:58:57	00:02:06	-----	202-	33-	68-	71330
A2 (FM06)	12/05/25	10:56:24	11:08:51	00:09:53	-----	269-	36-	52-	75432
B7 (FM19)	12/05/25	10:58:11	11:10:39	00:01:48	-----	308-	32-	86-	72011
A1 (FM05)	12/05/25	11:10:23	11:22:39	00:12:00	-----	273-	32-	52-	75431
C2 (FM22)	12/05/25	11:11:12	11:24:07	00:01:27	-----	215-	47-	64-	71330
B8 (FM20)	12/05/25	11:14:32	11:27:10	00:03:03	-----	308-	36-	91-	72011
A3 (FM07)	12/05/25	11:22:47	11:34:54	00:07:43	-----	278-	30-	53-	75432
B4 (FM16)	12/05/25	11:30:05	11:42:54	00:08:00	-----	308-	39-	95-	72011
A4 (FM08)	12/05/25	11:36:44	11:48:34	00:05:40	-----	283-	27-	52-	75433
C5 (FM25)	12/05/25	11:38:34	11:51:54	00:03:20	-----	228-	73-	59-	71331
B3 (FM15)	12/05/25	11:45:32	11:58:32	00:06:37	-----	308-	44-	100-	72011
A8 (FM12)	12/05/25	11:51:19	12:03:03	00:04:31	-----	287-	26-	55-	75433
B2 (FM14)	12/05/25	12:00:12	12:13:21	00:10:18	-----	307-	51-	106-	72011
A5 (FM09)	12/05/25	12:05:37	12:17:15	00:03:54	-----	290-	25-	55-	75433
C1 (FM21)	12/05/25	12:06:11	12:19:34	00:02:18	-----	239-	80-	56-	71331
B1 (FM13)	12/05/25	12:15:49	12:29:06	00:09:32	-----	306-	60-	111-	72011
A7 (FM11)	12/05/25	12:17:42	12:29:15	00:00:09	-----	294-	24-	58-	75433
C7 (FM27)	12/05/25	12:22:01	12:35:19	00:06:03	-----	246-	65-	55-	71331
C4 (FM24)	12/05/25	12:22:22	12:35:41	00:00:22	-----	245-	67-	55-	71331
A6 (FM10)	12/05/25	12:29:37	12:41:07	00:05:26	-----	296-	24-	60-	75433
B6 (FM18)	12/05/25	12:30:25	12:43:49	00:02:41	-----	304-	78-	120-	72012
C3 (FM23)	12/05/25	12:31:49	12:45:05	00:01:16	-----	250-	59-	54-	71331
A2 (FM06)	12/05/25	12:43:24	12:54:54	00:09:49	-----	299-	24-	63-	75433
B7 (FM19)	12/05/25	12:44:03	12:57:26	00:02:31	-----	303-	89-	125-	72012
C2 (FM22)	12/05/25	12:57:00	13:10:02	00:12:36	-----	258-	46-	52-	71331

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
A1 (FM05)	12/05/25	12:57:21	13:08:53	00:01:09	-----	301-	24-	65-	75432
B8 (FM20)	12/05/25	13:00:22	13:13:40	00:04:47	-----	301-	73-	131-	72012
A3 (FM07)	12/05/25	13:09:40	13:21:16	00:07:35	-----	303-	24-	68-	75433
B4 (FM16)	12/05/25	13:15:56	13:29:10	00:07:54	-----	299-	63-	136-	72012
A4 (FM08)	12/05/25	13:23:28	13:35:08	00:05:57	-----	305-	26-	71-	75434
C5 (FM25)	12/05/25	13:25:04	13:37:44	00:02:36	-----	270-	36-	53-	71332
B3 (FM15)	12/05/25	13:31:27	13:44:29	00:06:44	-----	297-	51-	142-	72012
A8 (FM12)	12/05/25	13:37:55	13:49:46	00:05:17	-----	307-	27-	77-	75434
B2 (FM14)	12/05/25	13:46:13	13:58:55	00:09:08	-----	294-	40-	149-	72012
A5 (FM09)	12/05/25	13:52:04	14:04:05	00:05:10	-----	307-	29-	79-	75434
C1 (FM21)	12/05/25	13:53:08	14:05:27	00:01:21	-----	278-	30-	52-	71332
B1 (FM13)	12/05/25	14:01:58	14:14:16	00:08:49	-----	291-	33-	156-	72012
A7 (FM11)	12/05/25	14:04:01	14:16:11	00:01:54	-----	308-	31-	85-	75434
G2 (FM04)	12/05/25	14:08:01	14:16:58	00:00:46	-----	97-	14-	8-	74246
C7 (FM27)	12/05/25	14:09:12	14:21:17	00:04:19	-----	284-	28-	55-	71332
C4 (FM24)	12/05/25	14:09:30	14:21:38	00:00:20	-----	283-	28-	55-	71332
A6 (FM10)	12/05/25	14:15:48	14:28:06	00:06:27	-----	308-	33-	88-	75434
B6 (FM18)	12/05/25	14:16:54	14:28:13	00:00:07	-----	284-	23-	168-	72013
C3 (FM23)	12/05/25	14:19:04	14:31:06	00:02:52	-----	286-	27-	56-	71332
A2 (FM06)	12/05/25	14:29:26	14:41:55	00:10:49	-----	308-	37-	93-	75434
B7 (FM19)	12/05/25	14:30:48	14:41:19	00:00:03	-----	280-	18-	175-	72013
A1 (FM05)	12/05/25	14:43:14	14:55:54	00:12:39	00:01:54	308-	41-	98-	75433
C2 (FM22)	12/05/25	14:44:24	14:56:15	00:00:21	-----	292-	25-	57-	71332
B8 (FM20)	12/05/25	14:47:35	14:56:52	00:00:37	-----	273-	14-	185-	72013
A3 (FM07)	12/05/25	14:55:26	15:08:15	00:11:22	-----	308-	46-	102-	75434
B4 (FM16)	12/05/25	15:03:35	15:11:46	00:03:31	-----	268-	11-	193-	72013
A4 (FM08)	12/05/25	15:09:03	15:22:01	00:10:15	-----	307-	55-	108-	75435
C5 (FM25)	12/05/25	15:12:29	15:24:17	00:02:15	-----	299-	24-	64-	71333
B3 (FM15)	12/05/25	15:19:56	15:26:01	00:01:44	-----	257-	8-	206-	72013
A8 (FM12)	12/05/25	15:23:26	15:36:32	00:10:30	-----	306-	65-	114-	75435
A5 (FM09)	12/05/25	15:37:31	15:50:42	00:13:10	00:01:00	305-	75-	118-	75435
C1 (FM21)	12/05/25	15:40:25	15:52:18	00:01:36	-----	303-	25-	68-	71333
G2 (FM04)	12/05/25	15:44:01	15:56:58	00:04:39	-----	157-	83-	335-	74247
A7 (FM11)	12/05/25	15:49:25	16:02:36	00:05:38	-----	303-	88-	124-	75435
C7 (FM27)	12/05/25	15:56:20	16:08:21	00:05:45	-----	305-	27-	75-	71333
C4 (FM24)	12/05/25	15:56:39	16:08:40	00:00:18	-----	305-	26-	74-	71333
A6 (FM10)	12/05/25	16:01:11	16:14:21	00:05:41	-----	302-	82-	128-	75435
C3 (FM23)	12/05/25	16:06:07	16:18:14	00:03:52	-----	306-	28-	77-	71333
A2 (FM06)	12/05/25	16:14:50	16:27:53	00:09:39	-----	300-	67-	134-	75435
A1 (FM05)	12/05/25	16:28:40	16:41:34	00:12:54	00:00:47	298-	55-	140-	75434
C2 (FM22)	12/05/25	16:31:11	16:43:35	00:02:00	-----	307-	31-	83-	71333
A3 (FM07)	12/05/25	16:40:56	16:53:38	00:10:03	-----	295-	46-	145-	75435
A4 (FM08)	12/05/25	16:54:42	17:06:57	00:12:15	00:01:03	292-	35-	154-	75436
C5 (FM25)	12/05/25	16:58:54	17:11:43	00:04:45	-----	308-	38-	95-	71334
A8 (FM12)	12/05/25	17:09:14	17:21:02	00:09:19	-----	288-	28-	159-	75436
A5 (FM09)	12/05/25	17:23:31	17:34:48	00:11:16	00:02:29	285-	23-	167-	75436
G2 (FM04)	12/05/25	17:26:34	17:32:46	00:02:02	-----	231-	8-	284-	74248
C1 (FM21)	12/05/25	17:26:34	17:39:40	00:06:54	-----	307-	49-	103-	71334
A7 (FM11)	12/05/25	17:35:41	17:46:15	00:06:34	-----	281-	19-	173-	75436
C7 (FM27)	12/05/25	17:42:21	17:55:37	00:09:22	-----	306-	60-	111-	71334

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
C4 (FM24)	12/05/25	17:42:41	17:55:56	00:00:19	-----	306-	58-	110-	71334
A6 (FM10)	12/05/25	17:47:42	17:57:33	00:01:36	-----	277-	16-	179-	75436
C3 (FM23)	12/05/25	17:52:04	18:05:24	00:07:50	-----	306-	65-	114-	71334
A2 (FM06)	12/05/25	18:01:51	18:10:21	00:04:57	-----	270-	12-	190-	75436
A1 (FM05)	12/05/25	18:16:20	18:23:11	00:06:51	00:05:58	261-	9-	201-	75435
C2 (FM22)	12/05/25	18:17:02	18:30:26	00:07:14	-----	303-	86-	123-	71334
A3 (FM07)	12/05/25	18:29:33	18:34:07	00:03:41	-----	250-	7-	214-	75436
C5 (FM25)	12/05/25	18:44:45	18:58:00	00:13:15	00:10:37	299-	64-	136-	71335
C1 (FM21)	12/05/25	19:12:32	19:25:19	00:12:47	00:14:31	295-	42-	148-	71335
C7 (FM27)	12/05/25	19:28:29	19:40:47	00:12:17	00:03:10	290-	32-	156-	71335
C4 (FM24)	12/05/25	19:28:48	19:41:11	00:00:24	-----	291-	34-	154-	71335
C3 (FM23)	12/05/25	19:38:18	19:50:18	00:09:07	-----	289-	29-	159-	71335
C2 (FM22)	12/05/25	20:03:41	20:14:29	00:10:48	00:13:22	282-	20-	172-	71335
C5 (FM25)	12/05/25	20:32:21	20:40:39	00:08:18	00:17:51	268-	11-	192-	71336
D8 (FM36)	12/05/25	20:43:18	20:50:06	00:06:48	00:02:38	162-	9-	96-	65082
C1 (FM21)	12/05/25	21:02:20	21:05:22	00:03:02	00:12:13	249-	6-	217-	71336
D3 (FM31)	12/05/25	21:02:46	21:13:37	00:08:14	-----	188-	20-	77-	65082
D2 (FM30)	12/05/25	21:24:09	21:35:31	00:11:22	00:10:32	193-	23-	74-	65082
D6 (FM34)	12/05/25	21:45:34	21:57:31	00:11:57	00:10:02	200-	28-	70-	65083
D7 (FM35)	12/05/25	22:04:58	22:17:30	00:12:32	00:07:26	207-	37-	66-	65083
D8 (FM36)	12/05/25	22:25:11	22:38:17	00:13:06	00:07:40	219-	54-	63-	65083
D3 (FM31)	12/05/25	22:46:52	23:00:15	00:13:23	00:08:35	237-	86-	57-	65083
D2 (FM30)	12/05/25	23:08:37	23:21:59	00:13:22	00:08:21	241-	77-	56-	65083
D6 (FM34)	12/05/25	23:30:28	23:43:47	00:13:18	00:08:29	246-	66-	55-	65084
D7 (FM35)	12/05/25	23:50:22	00:03:34	00:13:11	00:06:35	253-	54-	53-	65084
D8 (FM36)	12/05/26	00:11:14	00:24:11	00:12:56	00:07:40	262-	42-	52-	65084
D3 (FM31)	12/05/26	00:33:45	00:46:07	00:12:22	00:09:34	277-	31-	53-	65084
D2 (FM30)	12/05/26	00:55:37	01:07:53	00:12:15	00:09:29	280-	29-	54-	65084
D6 (FM34)	12/05/26	01:17:38	01:29:45	00:12:06	00:09:45	284-	28-	55-	65085
D7 (FM35)	12/05/26	01:37:42	01:49:39	00:11:56	00:07:57	289-	26-	56-	65085
D8 (FM36)	12/05/26	01:58:41	02:10:30	00:11:49	00:09:01	294-	25-	58-	65085
D3 (FM31)	12/05/26	02:21:05	02:32:55	00:11:50	00:10:34	302-	25-	68-	65085
D2 (FM30)	12/05/26	02:42:53	02:54:47	00:11:53	00:09:58	304-	26-	71-	65085
D6 (FM34)	12/05/26	03:04:47	03:16:48	00:12:00	00:10:00	305-	27-	74-	65086
D7 (FM35)	12/05/26	03:24:40	03:36:52	00:12:11	00:07:52	307-	29-	79-	65086
B8 (FM20)	12/05/26	03:40:33	03:47:30	00:06:57	00:03:41	161-	9-	99-	72021
D8 (FM36)	12/05/26	03:45:21	03:57:54	00:10:23	-----	308-	33-	86-	65086
B4 (FM16)	12/05/26	03:55:16	04:03:40	00:05:45	-----	170-	12-	91-	72021
G2 (FM04)	12/05/26	04:04:59	04:14:28	00:09:29	00:01:19	52-	16-	153-	74254
D3 (FM31)	12/05/26	04:07:18	04:20:20	00:05:51	-----	308-	46-	102-	65086
B3 (FM15)	12/05/26	04:09:52	04:19:39	00:00:04	-----	179-	15-	83-	72021
B2 (FM14)	12/05/26	04:23:53	04:34:45	00:10:51	00:04:13	188-	20-	77-	72021
D2 (FM30)	12/05/26	04:29:01	04:42:09	00:07:24	-----	307-	51-	106-	65086
B1 (FM13)	12/05/26	04:39:01	04:50:38	00:08:29	-----	195-	25-	73-	72021
D6 (FM34)	12/05/26	04:50:48	05:04:04	00:13:15	00:00:10	306-	58-	110-	65087
B6 (FM18)	12/05/26	04:53:02	05:05:31	00:01:27	-----	205-	36-	67-	72022
B7 (FM19)	12/05/26	05:06:25	05:19:15	00:12:49	00:00:53	212-	43-	64-	72022
D7 (FM35)	12/05/26	05:10:35	05:23:57	00:04:42	-----	305-	72-	117-	65087
B8 (FM20)	12/05/26	05:22:31	05:35:38	00:11:40	-----	220-	55-	62-	72022
D8 (FM36)	12/05/26	05:31:12	05:44:37	00:08:58	-----	302-	84-	127-	65087

Satellite	Date	AOS Time	LOS Time	Duration	Interval Between	AOS Az	Max EI	LOS Az	Orbit num.
B4 (FM16)	12/05/26	05:37:58	05:51:13	00:06:36	-----	225-	65-	60-	72022
G2 (FM04)	12/05/26	05:42:24	05:54:50	00:03:36	-----	17-	57-	218-	74255
D3 (FM31)	12/05/26	05:53:14	06:06:11	00:11:20	-----	296-	47-	145-	65087
B3 (FM15)	12/05/26	05:53:19	06:06:42	00:00:31	-----	231-	79-	58-	72022
B2 (FM14)	12/05/26	06:08:00	06:21:24	00:13:24	00:01:17	237-	86-	57-	72022
D2 (FM30)	12/05/26	06:15:01	06:27:44	00:06:20	-----	294-	40-	149-	65087
B1 (FM13)	12/05/26	06:23:38	06:37:02	00:09:17	-----	243-	73-	55-	72022
D6 (FM34)	12/05/26	06:36:56	06:49:17	00:12:15	-----	291-	33-	155-	65088
B6 (FM18)	12/05/26	06:38:22	06:51:37	00:02:19	-----	252-	56-	54-	72023
A2 (FM06)	12/05/26	06:51:21	06:58:16	00:06:39	-----	162-	9-	99-	75444
B7 (FM19)	12/05/26	06:52:06	07:05:13	00:06:57	-----	257-	49-	53-	72023
D7 (FM35)	12/05/26	06:56:57	07:08:36	00:03:22	-----	286-	25-	164-	65088
A1 (FM05)	12/05/26	07:04:12	07:12:44	00:04:08	-----	172-	12-	89-	75443
B8 (FM20)	12/05/26	07:08:36	07:21:31	00:08:46	-----	262-	42-	53-	72023
A3 (FM07)	12/05/26	07:15:46	07:25:24	00:03:53	-----	180-	15-	83-	75444
D8 (FM36)	12/05/26	07:18:05	07:28:17	00:02:52	-----	279-	17-	178-	65088
G2 (FM04)	12/05/26	07:23:40	07:28:55	00:00:37	-----	338-	7-	293-	74256
B4 (FM16)	12/05/26	07:24:18	07:37:05	00:08:10	-----	267-	38-	53-	72023
A4 (FM08)	12/05/26	07:28:40	07:39:26	00:02:21	-----	190-	21-	79-	75445
B3 (FM15)	12/05/26	07:39:56	07:52:32	00:12:36	00:00:29	272-	34-	53-	72023
D3 (FM31)	12/05/26	07:42:11	07:47:09	00:05:02	-----	251-	7-	214-	65088
A8 (FM12)	12/05/26	07:42:35	07:54:04	00:06:55	-----	197-	26-	72-	75445
B2 (FM14)	12/05/26	07:54:52	08:07:16	00:12:23	00:00:47	277-	31-	53-	72023
A5 (FM09)	12/05/26	07:56:23	08:08:20	00:01:04	-----	202-	31-	70-	75445
A7 (FM11)	12/05/26	08:08:01	08:20:21	00:12:01	-----	208-	38-	66-	75445
B1 (FM13)	12/05/26	08:10:42	08:22:57	00:02:35	-----	281-	29-	54-	72023
A6 (FM10)	12/05/26	08:19:37	08:32:11	00:09:14	-----	213-	45-	64-	75445
B6 (FM18)	12/05/26	08:25:40	08:37:41	00:05:29	-----	288-	26-	56-	72024
A2 (FM06)	12/05/26	08:33:00	08:45:53	00:08:12	-----	221-	56-	62-	75445
B7 (FM19)	12/05/26	08:39:30	08:51:24	00:05:30	-----	291-	25-	58-	72024
A1 (FM05)	12/05/26	08:46:42	08:59:44	00:08:20	-----	226-	68-	60-	75444
B8 (FM20)	12/05/26	08:56:03	09:07:50	00:08:06	-----	295-	25-	60-	72024
A3 (FM07)	12/05/26	08:58:52	09:11:59	00:04:08	-----	231-	80-	58-	75445
B4 (FM16)	12/05/26	09:11:44	09:23:32	00:11:33	-----	297-	24-	62-	72024