

December 2023

Time Local	Solar Elevation (°)	Solar Azimuth (° True)	Lunar Elevation (°)	Lunar Azimuth (° True)	Lunar Phase (%)	Ground Illumination (mlx)
12/01/2023 0000	-80	333	41	81	85	43.53
12/01/2023 0015	-81	353	44	82	85	46.96
12/01/2023 0030	-80	14	47	84	84	50.47
12/01/2023 0045	-79	32	50	86	84	54
12/01/2023 0100	-77	46	53	87	84	57.34
12/01/2023 0115	-75	56	56	89	84	60.48
12/01/2023 0130	-72	63	59	91	84	63.38
12/01/2023 0145	-69	69	62	93	84	65.74
12/01/2023 0200	-66	73	66	95	84	67.48
12/01/2023 0215	-63	77	69	98	84	69.25
12/01/2023 0230	-60	80	72	102	84	71.27
12/01/2023 0245	-56	83	75	106	84	72.5
12/01/2023 0300	-53	85	78	112	84	73.04
12/01/2023 0315	-50	87	81	122	84	74.32
12/01/2023 0330	-47	89	83	138	84	74.98
12/01/2023 0345	-44	91	85	166	83	74.6
12/01/2023 0400	-40	93	84	200	83	74.41
12/01/2023 0415	-37	95	83	225	83	74.29
12/01/2023 0430	-34	97	80	239	83	72.93
12/01/2023 0445	-31	98	77	248	83	71.4
12/01/2023 0500	-28	100	74	254	83	70.45
12/01/2023 0515	-25	102	71	258	83	68.62
12/01/2023 0530	-21	103	68	261	83	66.27
12/01/2023 0545	-18	105	65	264	83	64.88
12/01/2023 0600	-15	107	62	266	83	63.51
12/01/2023 0615	-12	108	59	269	83	67.15
12/01/2023 0630	-9	110	55	270	83	167.85
12/01/2023 0645	-6	112	52	272	83	3212.55
12/01/2023 0700	-3	114	49	274	82	72438.16
12/01/2023 0715	0	116	46	275	82	899588.54
12/01/2023 0730	3	118	43	277	82	2710756.3
12/01/2023 0745	6	120	40	278	82	5450909.25
12/01/2023 0800	8	122	37	280	82	8713335.5
12/01/2023 0815	11	124	34	281	82	12412272.93
12/01/2023 0830	14	126	31	283	82	16415350.78
12/01/2023 0845	16	129	27	284	82	20562013.98
12/01/2023 0900	19	131	24	285	82	24795391.38
12/01/2023 0915	21	134	21	287	82	29096011.78
12/01/2023 0930	23	137	18	288	82	33390450.63
12/01/2023 0945	25	140	16	290	82	37571245.52
12/01/2023 1000	27	143	13	291	82	41555374.72
12/01/2023 1015	29	146	10	293	81	45294339.42

12/01/2023 1030	31	150	7	295	81	48746107.09
12/01/2023 1045	32	154	4	296	81	51857604.81
12/01/2023 1100	34	157	2	298	81	54572759.81
12/01/2023 1115	35	161	-2	300	81	56848415.26
12/01/2023 1130	36	166	-4	302	81	58660975.82
12/01/2023 1145	36	170	-7	304	81	60002216.69
12/01/2023 1200	37	174	-9	306	81	60871480.97
12/01/2023 1215	37	178	-12	308	81	61270034.11
12/01/2023 1230	37	183	-14	310	81	61198696.35
12/01/2023 1245	37	187	-17	313	81	60657318.3
12/01/2023 1300	36	191	-19	315	81	59644844.39
12/01/2023 1315	36	196	-21	318	81	58160215.33
12/01/2023 1330	35	200	-23	321	80	56205634.72
12/01/2023 1345	33	204	-25	324	80	53793186.24
12/01/2023 1400	32	207	-27	327	80	50952350.24
12/01/2023 1415	30	211	-28	330	80	47731503.89
12/01/2023 1430	29	215	-30	333	80	44187584.79
12/01/2023 1445	27	218	-31	337	80	40370175.26
12/01/2023 1500	25	221	-32	340	80	36320207.29
12/01/2023 1515	23	224	-33	344	80	32094420.15
12/01/2023 1530	20	227	-34	348	80	27787178.59
12/01/2023 1545	18	229	-35	352	80	23502446.92
12/01/2023 1600	15	232	-35	356	80	19294387.19
12/01/2023 1615	13	234	-35	360	80	15180397.35
12/01/2023 1630	10	237	-35	4	79	11249998.92
12/01/2023 1645	8	239	-35	8	79	7675681.33
12/01/2023 1700	5	241	-34	12	79	4555572.99
12/01/2023 1715	2	243	-34	15	79	2036467.42
12/01/2023 1730	-1	245	-33	19	79	380899.14
12/01/2023 1745	-4	247	-32	23	79	30269.41
12/01/2023 1800	-7	249	-31	26	79	1120.89
12/01/2023 1815	-10	250	-29	30	79	45.61
12/01/2023 1830	-13	252	-28	33	79	4.68
12/01/2023 1845	-16	254	-26	36	79	1.49
12/01/2023 1900	-19	255	-24	39	79	1.05
12/01/2023 1915	-22	257	-22	42	79	0.5
12/01/2023 1930	-25	259	-20	45	78	0.5
12/01/2023 1945	-29	260	-18	47	78	0.5
12/01/2023 2000	-32	262	-15	50	78	0.5
12/01/2023 2015	-35	264	-13	52	78	0.5
12/01/2023 2030	-38	265	-11	55	78	0.5
12/01/2023 2045	-41	267	-8	57	78	0.5
12/01/2023 2100	-45	269	-5	59	78	0.5
12/01/2023 2115	-48	271	-3	61	78	0.55
12/01/2023 2130	-51	273	0	63	78	0.98
12/01/2023 2145	-54	275	3	64	78	1.86
12/01/2023 2200	-57	278	6	66	78	3.2

12/01/2023 2215	-61	280	8	68	78	4.85
12/01/2023 2230	-64	284	11	70	77	6.8
12/01/2023 2245	-67	287	14	71	77	8.98
12/01/2023 2300	-70	292	17	73	77	11.34
12/01/2023 2315	-73	298	20	75	77	13.88
12/01/2023 2330	-75	306	23	76	77	16.59
12/01/2023 2345	-78	317	26	78	77	19.42
12/02/2023 0000	-80	332	29	79	77	22.32
12/02/2023 0015	-81	352	32	81	77	25.27
12/02/2023 0030	-81	14	35	82	77	28.19
12/02/2023 0045	-79	32	39	84	77	30.96
12/02/2023 0100	-77	46	42	86	77	33.57
12/02/2023 0115	-75	56	45	88	77	36.18
12/02/2023 0130	-72	64	48	89	76	38.85
12/02/2023 0145	-69	69	51	91	76	41.47
12/02/2023 0200	-66	74	54	93	76	43.91
12/02/2023 0215	-63	77	57	96	76	46.21
12/02/2023 0230	-60	80	60	98	76	48.27
12/02/2023 0245	-57	83	63	101	76	49.83
12/02/2023 0300	-53	85	67	105	76	51.05
12/02/2023 0315	-50	88	70	109	76	52.4
12/02/2023 0330	-47	90	72	114	76	53.77
12/02/2023 0345	-44	92	75	121	76	54.46
12/02/2023 0400	-41	93	78	131	76	54.78
12/02/2023 0415	-37	95	80	145	76	55.39
12/02/2023 0430	-34	97	81	164	75	55.83
12/02/2023 0445	-31	98	81	187	75	55.75
12/02/2023 0500	-28	100	80	207	75	55.18
12/02/2023 0515	-25	102	79	223	75	54.23
12/02/2023 0530	-22	103	76	234	75	53.52
12/02/2023 0545	-18	105	73	242	75	53.38
12/02/2023 0600	-15	107	71	248	75	52.61
12/02/2023 0615	-12	108	68	253	75	56.61
12/02/2023 0630	-9	110	64	256	75	143.75
12/02/2023 0645	-6	112	61	259	75	2698.82
12/02/2023 0700	-3	114	58	262	75	62633.88
12/02/2023 0715	0	116	55	264	74	836857.36
12/02/2023 0730	3	118	52	267	74	2579869.73
12/02/2023 0745	5	120	49	269	74	5277611.81
12/02/2023 0800	8	122	46	270	74	8506611.27
12/02/2023 0815	11	124	42	272	74	12173484.22
12/02/2023 0830	13	126	39	274	74	16152984.58
12/02/2023 0845	16	129	36	275	74	20281362.54
12/02/2023 0900	18	131	33	277	74	24495339.38
12/02/2023 0915	21	134	30	279	74	28776593.22
12/02/2023 0930	23	137	27	280	74	33056303.49
12/02/2023 0945	25	140	24	282	74	37227965.4

12/02/2023 1000	27	143	21	283	74	41206040.76
12/02/2023 1015	29	146	18	285	73	44940265.17
12/02/2023 1030	31	150	15	286	73	48389369.79
12/02/2023 1045	32	154	12	288	73	51501987.19
12/02/2023 1100	34	157	9	290	73	54222693.78
12/02/2023 1115	35	161	6	291	73	56507498.25
12/02/2023 1130	36	166	3	293	73	58331304.96
12/02/2023 1145	36	170	0	295	73	59684619.85
12/02/2023 1200	37	174	-3	297	73	60566093.54
12/02/2023 1215	37	178	-6	299	73	60976758.12
12/02/2023 1230	37	183	-8	301	73	60917408.28
12/02/2023 1245	37	187	-11	303	73	60387924.41
12/02/2023 1300	36	191	-14	305	72	59387344.68
12/02/2023 1315	35	195	-16	307	72	57914883.54
12/02/2023 1330	34	200	-19	310	72	55973283.87
12/02/2023 1345	33	203	-21	312	72	53575312.36
12/02/2023 1400	32	207	-23	315	72	50750869.33
12/02/2023 1415	30	211	-25	318	72	47548021.24
12/02/2023 1430	29	214	-28	321	72	44022648.45
12/02/2023 1445	27	218	-29	324	72	40223263.73
12/02/2023 1500	25	221	-31	327	72	36190646.21
12/02/2023 1515	22	224	-33	331	72	31982241.48
12/02/2023 1530	20	227	-34	334	72	27692651.53
12/02/2023 1545	18	229	-36	338	71	23424701.49
12/02/2023 1600	15	232	-37	342	71	19231270.07
12/02/2023 1615	13	234	-38	346	71	15130200.38
12/02/2023 1630	10	236	-38	350	71	11212285.24
12/02/2023 1645	8	239	-39	355	71	7649437.14
12/02/2023 1700	5	241	-39	359	71	4538597.15
12/02/2023 1715	2	243	-39	3	71	2027844.71
12/02/2023 1730	-1	245	-39	8	71	378874.67
12/02/2023 1745	-4	247	-38	12	71	30157.75
12/02/2023 1800	-7	248	-38	16	71	1121.07
12/02/2023 1815	-10	250	-37	20	71	45.77
12/02/2023 1830	-13	252	-35	24	70	4.7
12/02/2023 1845	-16	254	-34	28	70	1.49
12/02/2023 1900	-19	255	-33	31	70	1.05
12/02/2023 1915	-22	257	-31	35	70	0.5
12/02/2023 1930	-25	259	-29	38	70	0.5
12/02/2023 1945	-29	260	-27	41	70	0.5
12/02/2023 2000	-32	262	-25	44	70	0.5
12/02/2023 2015	-35	263	-23	47	70	0.5
12/02/2023 2030	-38	265	-21	50	70	0.5
12/02/2023 2045	-41	267	-18	52	70	0.5
12/02/2023 2100	-45	269	-16	55	70	0.5
12/02/2023 2115	-48	271	-13	57	69	0.5
12/02/2023 2130	-51	273	-11	59	69	0.5

12/02/2023 2145	-54	275	-8	62	69	0.5
12/02/2023 2200	-57	277	-5	64	69	0.5
12/02/2023 2215	-61	280	-3	66	69	0.55
12/02/2023 2230	-64	283	1	68	69	0.92
12/02/2023 2245	-67	287	3	69	69	1.66
12/02/2023 2300	-70	292	6	71	69	2.74
12/02/2023 2315	-73	298	9	73	69	4.06
12/02/2023 2330	-76	305	12	75	69	5.61
12/02/2023 2345	-78	316	15	76	69	7.32
12/03/2023 0000	-80	331	18	78	68	9.15
12/03/2023 0015	-81	351	21	80	68	11.13
12/03/2023 0030	-81	13	24	82	68	13.23
12/03/2023 0045	-80	32	27	83	68	15.39
12/03/2023 0100	-77	46	30	85	68	17.6
12/03/2023 0115	-75	57	34	87	68	19.83
12/03/2023 0130	-72	64	37	89	68	21.99
12/03/2023 0145	-69	69	40	91	68	24.01
12/03/2023 0200	-66	74	43	93	68	25.94
12/03/2023 0215	-63	77	46	95	68	27.9
12/03/2023 0230	-60	81	49	97	68	29.88
12/03/2023 0245	-57	83	52	99	67	31.76
12/03/2023 0300	-54	86	55	102	67	33.51
12/03/2023 0315	-50	88	58	105	67	35.12
12/03/2023 0330	-47	90	61	109	67	36.49
12/03/2023 0345	-44	92	64	113	67	37.49
12/03/2023 0400	-41	93	67	118	67	38.3
12/03/2023 0415	-37	95	70	124	67	39.21
12/03/2023 0430	-34	97	72	132	67	40.06
12/03/2023 0445	-31	99	74	142	67	40.5
12/03/2023 0500	-28	100	76	154	67	40.62
12/03/2023 0515	-25	102	77	168	67	40.62
12/03/2023 0530	-22	103	77	184	66	40.53
12/03/2023 0545	-19	105	77	199	66	40.92
12/03/2023 0600	-15	107	75	212	66	41.25
12/03/2023 0615	-12	108	73	223	66	45.8
12/03/2023 0630	-9	110	71	231	66	120.69
12/03/2023 0645	-6	112	68	238	66	2267.16
12/03/2023 0700	-3	114	65	243	66	54109.4
12/03/2023 0715	0	116	62	248	66	778230.6
12/03/2023 0730	3	118	59	252	66	2453800.68
12/03/2023 0745	5	120	56	255	66	5108597.51
12/03/2023 0800	8	122	53	258	66	8304914.08
12/03/2023 0815	11	124	50	260	65	11940208.17
12/03/2023 0830	13	126	47	263	65	15896317.83
12/03/2023 0845	16	129	44	265	65	20007025.5
12/03/2023 0900	18	131	41	267	65	24202536.46
12/03/2023 0915	21	134	38	269	65	28465153.8

12/03/2023 0930	23	137	34	271	65	32730568.48
12/03/2023 0945	25	140	31	272	65	36893534.26
12/03/2023 1000	27	143	28	274	65	40866186.72
12/03/2023 1015	29	146	25	276	65	44596374.3
12/03/2023 1030	31	150	22	277	65	48043363.06
12/03/2023 1045	32	154	19	279	64	51157394.49
12/03/2023 1100	33	157	16	281	64	53883769.65
12/03/2023 1115	35	161	13	282	64	56177803.31
12/03/2023 1130	35	165	10	284	64	58012998.74
12/03/2023 1145	36	170	7	286	64	59378617.59
12/03/2023 1200	37	174	4	288	64	60272595.56
12/03/2023 1215	37	178	1	289	64	60695699.09
12/03/2023 1230	37	183	-3	291	64	60648679.37
12/03/2023 1245	37	187	-5	293	64	60131447.21
12/03/2023 1300	36	191	-8	295	64	59143144.28
12/03/2023 1315	35	195	-11	297	64	57683257.21
12/03/2023 1330	34	199	-14	299	63	55755031.38
12/03/2023 1345	33	203	-17	302	63	53371836.34
12/03/2023 1400	32	207	-19	304	63	50563898.14
12/03/2023 1415	30	211	-22	306	63	47378928.63
12/03/2023 1430	28	214	-24	309	63	43871804.31
12/03/2023 1445	27	217	-27	312	63	40090078.79
12/03/2023 1500	25	221	-29	315	63	36074422.56
12/03/2023 1515	22	224	-31	318	63	31882896.86
12/03/2023 1530	20	226	-33	321	63	27610236.8
12/03/2023 1545	18	229	-35	325	63	23358204.92
12/03/2023 1600	15	232	-37	328	62	19178591.93
12/03/2023 1615	13	234	-38	332	62	15089664.01
12/03/2023 1630	10	236	-40	336	62	11183204.28
12/03/2023 1645	7	239	-41	341	62	7630539.61
12/03/2023 1700	5	241	-42	345	62	4527682.09
12/03/2023 1715	2	243	-43	350	62	2023422.08
12/03/2023 1730	-1	245	-43	354	62	378368.1
12/03/2023 1745	-4	246	-43	359	62	30220.36
12/03/2023 1800	-7	248	-43	4	62	1128.43
12/03/2023 1815	-10	250	-43	9	62	46.16
12/03/2023 1830	-13	252	-43	13	62	4.73
12/03/2023 1845	-16	253	-42	18	61	1.5
12/03/2023 1900	-19	255	-41	22	61	1.05
12/03/2023 1915	-22	257	-40	26	61	0.5
12/03/2023 1930	-25	258	-38	31	61	0.5
12/03/2023 1945	-29	260	-37	34	61	0.5
12/03/2023 2000	-32	262	-35	38	61	0.5
12/03/2023 2015	-35	263	-33	42	61	0.5
12/03/2023 2030	-38	265	-31	45	61	0.5
12/03/2023 2045	-41	267	-29	48	61	0.5
12/03/2023 2100	-45	269	-26	51	61	0.5

12/03/2023 2115	-48	270	-24	54	60	0.5
12/03/2023 2130	-51	272	-21	56	60	0.5
12/03/2023 2145	-54	275	-19	59	60	0.5
12/03/2023 2200	-57	277	-16	61	60	0.5
12/03/2023 2215	-61	280	-13	63	60	0.5
12/03/2023 2230	-64	283	-11	66	60	0.5
12/03/2023 2245	-67	287	-8	68	60	0.5
12/03/2023 2300	-70	291	-5	70	60	0.5
12/03/2023 2315	-73	297	-2	72	60	0.56
12/03/2023 2330	-76	305	1	74	60	0.91
12/03/2023 2345	-78	315	4	75	60	1.56
12/04/2023 0000	-80	331	7	77	59	2.44
12/04/2023 0015	-81	351	10	79	59	3.5
12/04/2023 0030	-81	13	13	81	59	4.71
12/04/2023 0045	-80	32	16	83	59	6.02
12/04/2023 0100	-78	47	19	85	59	7.44
12/04/2023 0115	-75	57	22	86	59	8.95
12/04/2023 0130	-72	64	26	88	59	10.53
12/04/2023 0145	-69	70	29	90	59	12.14
12/04/2023 0200	-66	74	32	92	59	13.78
12/04/2023 0215	-63	78	35	94	59	15.4
12/04/2023 0230	-60	81	38	96	58	16.93
12/04/2023 0245	-57	83	41	99	58	18.36
12/04/2023 0300	-54	86	44	101	58	19.75
12/04/2023 0315	-50	88	47	104	58	21.16
12/04/2023 0330	-47	90	50	107	58	22.55
12/04/2023 0345	-44	92	53	110	58	23.83
12/04/2023 0400	-41	94	56	113	58	25
12/04/2023 0415	-38	95	59	118	58	26.06
12/04/2023 0430	-34	97	62	122	58	26.92
12/04/2023 0445	-31	99	64	128	58	27.53
12/04/2023 0500	-28	100	67	134	57	28
12/04/2023 0515	-25	102	69	142	57	28.46
12/04/2023 0530	-22	104	70	151	57	28.87
12/04/2023 0545	-19	105	72	162	57	29.72
12/04/2023 0600	-16	107	72	173	57	30.37
12/04/2023 0615	-13	109	72	185	57	34.81
12/04/2023 0630	-10	110	72	196	57	99.67
12/04/2023 0645	-7	112	70	207	57	1906.24
12/04/2023 0700	-4	114	69	216	57	46716.98
12/04/2023 0715	0	116	67	224	57	723437.95
12/04/2023 0730	2	118	64	230	57	2332612.89
12/04/2023 0745	5	120	62	236	56	4943923.64
12/04/2023 0800	8	122	59	240	56	8108289.39
12/04/2023 0815	11	124	56	245	56	11712553.93
12/04/2023 0830	13	126	53	248	56	15645486.18
12/04/2023 0845	16	129	50	251	56	19739117.1

12/04/2023 0900	18	131	47	254	56	23917094.29
12/04/2023 0915	20	134	44	257	56	28161840.27
12/04/2023 0930	23	137	41	259	56	32413427.28
12/04/2023 0945	25	140	38	262	56	36568138.87
12/04/2023 1000	27	143	35	264	56	40535986.42
12/04/2023 1015	29	146	32	266	55	44262839.99
12/04/2023 1030	30	150	28	268	55	47708285.38
12/04/2023 1045	32	154	25	270	55	50824065.84
12/04/2023 1100	33	157	22	271	55	53556262.85
12/04/2023 1115	34	161	19	273	55	55859624.87
12/04/2023 1130	35	165	16	275	55	57706352.01
12/04/2023 1145	36	170	13	277	55	59084493.73
12/04/2023 1200	36	174	10	278	55	59991256.24
12/04/2023 1215	37	178	6	280	55	60427112.9
12/04/2023 1230	37	182	3	282	55	60392754.08
12/04/2023 1245	36	187	1	284	54	59888120.07
12/04/2023 1300	36	191	-3	286	54	58912462.47
12/04/2023 1315	35	195	-6	287	54	57465533.53
12/04/2023 1330	34	199	-9	289	54	55551041.38
12/04/2023 1345	33	203	-12	291	54	53182880.88
12/04/2023 1400	32	207	-15	294	54	50391518.63
12/04/2023 1415	30	211	-18	296	54	47224278.43
12/04/2023 1430	28	214	-20	298	54	43735090.28
12/04/2023 1445	27	217	-23	300	54	39970651.4
12/04/2023 1500	25	220	-26	303	54	35971555.73
12/04/2023 1515	22	223	-28	306	54	31796386.58
12/04/2023 1530	20	226	-31	309	53	27539918.46
12/04/2023 1545	18	229	-33	312	53	23302936.92
12/04/2023 1600	15	231	-36	315	53	19136333.11
12/04/2023 1615	13	234	-38	318	53	15058761.77
12/04/2023 1630	10	236	-40	322	53	11162719.99
12/04/2023 1645	7	238	-42	326	53	7618953.15
12/04/2023 1700	5	240	-43	330	53	4522795.1
12/04/2023 1715	2	242	-45	335	53	2023167.98
12/04/2023 1730	-1	244	-46	340	53	379367.65
12/04/2023 1745	-4	246	-47	345	53	30457.22
12/04/2023 1800	-7	248	-48	350	52	1143.07
12/04/2023 1815	-10	250	-48	355	52	46.8
12/04/2023 1830	-13	252	-49	0	52	4.78
12/04/2023 1845	-16	253	-48	6	52	1.5
12/04/2023 1900	-19	255	-48	11	52	1.06
12/04/2023 1915	-22	257	-47	16	52	0.5
12/04/2023 1930	-25	258	-46	21	52	0.5
12/04/2023 1945	-29	260	-45	26	52	0.5
12/04/2023 2000	-32	261	-44	30	52	0.5
12/04/2023 2015	-35	263	-42	35	52	0.5
12/04/2023 2030	-38	265	-40	39	51	0.5

12/04/2023 2045	-41	267	-38	43	51	0.5
12/04/2023 2100	-45	268	-36	46	51	0.5
12/04/2023 2115	-48	270	-34	50	51	0.5
12/04/2023 2130	-51	272	-32	53	51	0.5
12/04/2023 2145	-54	274	-29	56	51	0.5
12/04/2023 2200	-57	277	-27	58	51	0.5
12/04/2023 2215	-61	279	-24	61	51	0.5
12/04/2023 2230	-64	283	-21	64	51	0.5
12/04/2023 2245	-67	286	-19	66	51	0.5
12/04/2023 2300	-70	291	-16	68	50	0.5
12/04/2023 2315	-73	296	-13	70	50	0.5
12/04/2023 2330	-76	304	-10	73	50	0.5
12/04/2023 2345	-78	315	-7	75	50	0.5
12/05/2023 0000	-80	330	-4	77	50	0.51
12/05/2023 0015	-81	350	-1	79	50	0.58
12/05/2023 0030	-81	12	2	80	50	0.94
12/05/2023 0045	-80	32	5	82	50	1.49
12/05/2023 0100	-78	47	8	84	50	2.18
12/05/2023 0115	-75	57	11	86	50	3
12/05/2023 0130	-72	64	15	88	49	3.91
12/05/2023 0145	-70	70	18	90	49	4.89
12/05/2023 0200	-66	74	21	92	49	5.93
12/05/2023 0215	-63	78	24	94	49	7.03
12/05/2023 0230	-60	81	27	96	49	8.17
12/05/2023 0245	-57	84	30	98	49	9.31
12/05/2023 0300	-54	86	33	100	49	10.46
12/05/2023 0315	-51	88	36	103	49	11.56
12/05/2023 0330	-47	90	39	105	49	12.59
12/05/2023 0345	-44	92	42	108	49	13.55
12/05/2023 0400	-41	94	45	111	49	14.49
12/05/2023 0415	-38	95	48	114	48	15.44
12/05/2023 0430	-35	97	51	118	48	16.33
12/05/2023 0445	-31	99	54	122	48	17.14
12/05/2023 0500	-28	100	56	126	48	17.86
12/05/2023 0515	-25	102	59	131	48	18.5
12/05/2023 0530	-22	104	61	137	48	19
12/05/2023 0545	-19	105	63	144	48	19.94
12/05/2023 0600	-16	107	64	151	48	20.7
12/05/2023 0615	-13	109	66	159	48	24.91
12/05/2023 0630	-10	110	67	168	48	81.11
12/05/2023 0645	-7	112	67	177	47	1604.48
12/05/2023 0700	-4	114	67	187	47	40320.89
12/05/2023 0715	-1	116	66	196	47	456082.43
12/05/2023 0730	2	118	65	204	47	2216355.92
12/05/2023 0745	5	120	63	212	47	4783650.38
12/05/2023 0800	8	122	62	218	47	7916781.59
12/05/2023 0815	10	124	59	224	47	11490626.59

12/05/2023 0830	13	126	57	230	47	15400625.13
12/05/2023 0845	16	129	54	234	47	19477753.9
12/05/2023 0900	18	131	52	239	47	23639124.64
12/05/2023 0915	20	134	49	242	46	27866796.75
12/05/2023 0930	23	137	46	246	46	32105059.46
12/05/2023 0945	25	140	43	249	46	36251966.38
12/05/2023 1000	27	143	40	252	46	40215615.01
12/05/2023 1015	29	146	37	254	46	43939833.88
12/05/2023 1030	30	150	34	257	46	47384328.57
12/05/2023 1045	32	154	31	259	46	50502229.63
12/05/2023 1100	33	157	28	261	46	53240436.71
12/05/2023 1115	34	161	25	263	46	55553246.24
12/05/2023 1130	35	165	22	265	46	57411650.64
12/05/2023 1145	36	169	18	267	45	58802524.52
12/05/2023 1200	36	174	15	269	45	59722337
12/05/2023 1215	37	178	12	271	45	60171246.23
12/05/2023 1230	37	182	9	272	45	60149866.52
12/05/2023 1245	36	187	6	274	45	59658165.02
12/05/2023 1300	36	191	3	276	45	58695505.11
12/05/2023 1315	35	195	0	278	45	57261894.25
12/05/2023 1330	34	199	-4	280	45	55361462.02
12/05/2023 1345	33	203	-7	282	45	53008554.2
12/05/2023 1400	32	207	-10	283	45	50233800.89
12/05/2023 1415	30	210	-13	285	44	47084113.7
12/05/2023 1430	28	214	-16	288	44	43612535.95
12/05/2023 1445	27	217	-19	290	44	39865003.85
12/05/2023 1500	24	220	-22	292	44	35882056.32
12/05/2023 1515	22	223	-25	294	44	31722703.42
12/05/2023 1530	20	226	-28	297	44	27481674.94
12/05/2023 1545	18	229	-30	299	44	23258872.15
12/05/2023 1600	15	231	-33	302	44	19104468.37
12/05/2023 1615	13	234	-36	305	44	15037462.63
12/05/2023 1630	10	236	-38	308	44	11150794.77
12/05/2023 1645	7	238	-41	312	44	7614642.2
12/05/2023 1700	5	240	-43	315	43	4523905.08
12/05/2023 1715	2	242	-45	319	43	2027060.88
12/05/2023 1730	-1	244	-47	324	43	381873.53
12/05/2023 1745	-4	246	-49	328	43	30870.9
12/05/2023 1800	-7	248	-50	333	43	1165.21
12/05/2023 1815	-10	250	-52	339	43	47.69
12/05/2023 1830	-13	251	-53	344	43	4.84
12/05/2023 1845	-16	253	-53	350	43	1.51
12/05/2023 1900	-19	255	-54	356	43	1.06
12/05/2023 1915	-22	256	-54	2	43	0.5
12/05/2023 1930	-25	258	-54	8	42	0.5
12/05/2023 1945	-29	260	-53	14	42	0.5
12/05/2023 2000	-32	261	-52	20	42	0.5

12/05/2023 2015	-35	263	-51	26	42	0.5
12/05/2023 2030	-38	265	-50	31	42	0.5
12/05/2023 2045	-41	266	-48	36	42	0.5
12/05/2023 2100	-44	268	-46	40	42	0.5
12/05/2023 2115	-48	270	-44	44	42	0.5
12/05/2023 2130	-51	272	-42	48	42	0.5
12/05/2023 2145	-54	274	-40	52	42	0.5
12/05/2023 2200	-57	276	-37	55	41	0.5
12/05/2023 2215	-60	279	-35	58	41	0.5
12/05/2023 2230	-64	282	-32	61	41	0.5
12/05/2023 2245	-67	286	-29	64	41	0.5
12/05/2023 2300	-70	290	-27	67	41	0.5
12/05/2023 2315	-73	296	-24	69	41	0.5
12/05/2023 2330	-76	303	-21	72	41	0.5
12/05/2023 2345	-78	314	-18	74	41	0.5
12/06/2023 0000	-80	329	-15	76	41	0.5
12/06/2023 0015	-81	349	-12	78	41	0.5
12/06/2023 0030	-81	12	-9	80	40	0.5
12/06/2023 0045	-80	32	-6	82	40	0.5
12/06/2023 0100	-78	47	-3	84	40	0.51
12/06/2023 0115	-75	57	1	86	40	0.65
12/06/2023 0130	-73	64	4	88	40	0.95
12/06/2023 0145	-70	70	7	90	40	1.37
12/06/2023 0200	-67	74	10	92	40	1.88
12/06/2023 0215	-63	78	13	94	40	2.47
12/06/2023 0230	-60	81	16	96	40	3.11
12/06/2023 0245	-57	84	19	98	40	3.78
12/06/2023 0300	-54	86	22	100	40	4.5
12/06/2023 0315	-51	88	25	102	39	5.25
12/06/2023 0330	-48	90	28	104	39	6
12/06/2023 0345	-44	92	31	107	39	6.75
12/06/2023 0400	-41	94	34	109	39	7.49
12/06/2023 0415	-38	96	37	112	39	8.19
12/06/2023 0430	-35	97	40	115	39	8.82
12/06/2023 0445	-32	99	43	118	39	9.41
12/06/2023 0500	-28	100	45	122	39	9.99
12/06/2023 0515	-25	102	48	126	39	10.55
12/06/2023 0530	-22	104	50	130	39	11.07
12/06/2023 0545	-19	105	53	135	38	12.1
12/06/2023 0600	-16	107	55	140	38	12.98
12/06/2023 0615	-13	109	57	145	38	16.97
12/06/2023 0630	-10	110	58	152	38	65.78
12/06/2023 0645	-7	112	60	158	38	1353.06
12/06/2023 0700	-4	114	60	165	38	34798.52
12/06/2023 0715	-1	116	61	173	38	412734.46
12/06/2023 0730	2	118	61	181	38	2105062.2
12/06/2023 0745	5	120	61	188	38	4627839.51

12/06/2023 0800	8	122	60	196	38	7730433.87
12/06/2023 0815	10	124	59	203	37	11274527.04
12/06/2023 0830	13	126	58	209	37	15161870.81
12/06/2023 0845	15	129	56	215	37	19223056.22
12/06/2023 0900	18	131	54	220	37	23368739.74
12/06/2023 0915	20	134	52	225	37	27580163.65
12/06/2023 0930	22	137	49	230	37	31805641.12
12/06/2023 0945	25	140	47	234	37	35945203.72
12/06/2023 1000	27	143	44	237	37	39905248.78
12/06/2023 1015	28	146	41	241	37	43627526.26
12/06/2023 1030	30	150	39	244	37	47071678.51
12/06/2023 1045	32	153	36	247	37	50192104.04
12/06/2023 1100	33	157	33	249	36	52936542.12
12/06/2023 1115	34	161	30	252	36	55258938.49
12/06/2023 1130	35	165	27	254	36	57129169.84
12/06/2023 1145	36	169	24	256	36	58532977.11
12/06/2023 1200	36	174	20	258	36	59466091.05
12/06/2023 1215	36	178	17	260	36	59928337.17
12/06/2023 1230	36	182	14	262	36	59920240.29
12/06/2023 1245	36	186	11	264	36	59441790.82
12/06/2023 1300	36	191	8	266	36	58492463.04
12/06/2023 1315	35	195	5	268	36	57072505.33
12/06/2023 1330	34	199	2	270	35	55186425.84
12/06/2023 1345	33	203	-2	272	35	52848950.27
12/06/2023 1400	32	207	-5	274	35	50090803.34
12/06/2023 1415	30	210	-8	275	35	46958468.04
12/06/2023 1430	28	214	-11	277	35	43504162.24
12/06/2023 1445	26	217	-14	279	35	39773149.39
12/06/2023 1500	24	220	-17	281	35	35805925.79
12/06/2023 1515	22	223	-20	283	35	31661832.45
12/06/2023 1530	20	226	-23	285	35	27435478.8
12/06/2023 1545	18	229	-26	288	35	23225979.84
12/06/2023 1600	15	231	-29	290	35	19082966.51
12/06/2023 1615	13	234	-32	293	34	15025730.73
12/06/2023 1630	10	236	-35	295	34	11147389.24
12/06/2023 1645	7	238	-38	298	34	7617570.96
12/06/2023 1700	5	240	-41	301	34	4530982.29
12/06/2023 1715	2	242	-43	304	34	2035088.82
12/06/2023 1730	-1	244	-46	308	34	385897.64
12/06/2023 1745	-4	246	-48	312	34	31466.48
12/06/2023 1800	-7	248	-51	316	34	1195.23
12/06/2023 1815	-10	250	-53	321	34	48.84
12/06/2023 1830	-13	251	-55	326	34	4.92
12/06/2023 1845	-16	253	-56	332	33	1.52
12/06/2023 1900	-19	255	-58	338	33	1.06
12/06/2023 1915	-22	256	-59	344	33	0.5
12/06/2023 1930	-25	258	-59	351	33	0.5

12/06/2023 1945	-28	259	-60	358	33	0.5
12/06/2023 2000	-32	261	-60	5	33	0.5
12/06/2023 2015	-35	263	-59	12	33	0.5
12/06/2023 2030	-38	264	-58	19	33	0.5
12/06/2023 2045	-41	266	-57	26	33	0.5
12/06/2023 2100	-44	268	-56	32	33	0.5
12/06/2023 2115	-48	270	-54	37	33	0.5
12/06/2023 2130	-51	272	-52	42	32	0.5
12/06/2023 2145	-54	274	-50	47	32	0.5
12/06/2023 2200	-57	276	-48	51	32	0.5
12/06/2023 2215	-60	279	-45	55	32	0.5
12/06/2023 2230	-64	282	-43	59	32	0.5
12/06/2023 2245	-67	285	-40	62	32	0.5
12/06/2023 2300	-70	290	-37	65	32	0.5
12/06/2023 2315	-73	295	-35	68	32	0.5
12/06/2023 2330	-76	303	-32	70	32	0.5
12/06/2023 2345	-78	313	-29	73	32	0.5
12/07/2023 0000	-80	328	-26	75	32	0.5
12/07/2023 0015	-81	348	-23	78	31	0.5
12/07/2023 0030	-81	12	-20	80	31	0.5
12/07/2023 0045	-80	32	-17	82	31	0.5
12/07/2023 0100	-78	47	-14	84	31	0.5
12/07/2023 0115	-76	57	-11	86	31	0.5
12/07/2023 0130	-73	65	-8	88	31	0.5
12/07/2023 0145	-70	70	-5	90	31	0.5
12/07/2023 0200	-67	75	-2	92	31	0.52
12/07/2023 0215	-64	78	2	94	31	0.66
12/07/2023 0230	-60	81	5	96	31	0.88
12/07/2023 0245	-57	84	8	98	30	1.17
12/07/2023 0300	-54	86	11	100	30	1.51
12/07/2023 0315	-51	88	14	102	30	1.89
12/07/2023 0330	-48	90	17	104	30	2.29
12/07/2023 0345	-44	92	20	106	30	2.71
12/07/2023 0400	-41	94	23	108	30	3.15
12/07/2023 0415	-38	96	26	111	30	3.6
12/07/2023 0430	-35	97	29	113	30	4.05
12/07/2023 0445	-32	99	32	116	30	4.49
12/07/2023 0500	-29	101	34	119	30	4.92
12/07/2023 0515	-25	102	37	122	30	5.31
12/07/2023 0530	-22	104	40	125	29	5.67
12/07/2023 0545	-19	105	42	129	29	6.55
12/07/2023 0600	-16	107	44	133	29	7.3
12/07/2023 0615	-13	109	47	137	29	10.89
12/07/2023 0630	-10	110	49	142	29	53.31
12/07/2023 0645	-7	112	50	147	29	1143.65
12/07/2023 0700	-4	114	52	152	29	30039.14
12/07/2023 0715	-1	116	53	158	29	373177.5

12/07/2023 0730	2	118	54	164	29	1998746.34
12/07/2023 0745	5	120	55	170	29	4476553.05
12/07/2023 0800	7	122	55	176	29	7549288.17
12/07/2023 0815	10	124	55	183	28	11064351.61
12/07/2023 0830	13	127	55	189	28	14929358.76
12/07/2023 0845	15	129	54	195	28	18975147.37
12/07/2023 0900	18	131	53	201	28	23106052.88
12/07/2023 0915	20	134	52	207	28	27302078.67
12/07/2023 0930	22	137	50	212	28	31515344.67
12/07/2023 0945	24	140	48	217	28	35648036.24
12/07/2023 1000	26	143	46	222	28	39605064.07
12/07/2023 1015	28	146	44	226	28	43326086.01
12/07/2023 1030	30	150	41	230	28	46770515.39
12/07/2023 1045	31	153	39	233	28	49893897.2
12/07/2023 1100	33	157	36	236	27	52644817.57
12/07/2023 1115	34	161	34	239	27	54976959.94
12/07/2023 1130	35	165	31	242	27	56859172.91
12/07/2023 1145	36	169	28	245	27	58276107.92
12/07/2023 1200	36	174	25	247	27	59222761.52
12/07/2023 1215	36	178	22	250	27	59698613.58
12/07/2023 1230	36	182	19	252	27	59704087.73
12/07/2023 1245	36	186	16	254	27	59239193.29
12/07/2023 1300	36	191	13	256	27	58303511.91
12/07/2023 1315	35	195	10	258	27	56897516.14
12/07/2023 1330	34	199	7	260	27	55026049.28
12/07/2023 1345	33	203	4	262	26	52704149.1
12/07/2023 1400	31	206	1	264	26	49962572.85
12/07/2023 1415	30	210	-3	266	26	46847365.38
12/07/2023 1430	28	214	-6	267	26	43409981
12/07/2023 1445	26	217	-9	269	26	39695091.79
12/07/2023 1500	24	220	-12	271	26	35743156.32
12/07/2023 1515	22	223	-15	273	26	31613750.88
12/07/2023 1530	20	226	-18	275	26	27401296.49
12/07/2023 1545	18	228	-21	277	26	23204223.52
12/07/2023 1600	15	231	-25	279	26	19071790.1
12/07/2023 1615	13	233	-28	281	26	15023525.2
12/07/2023 1630	10	236	-31	283	26	11152462.01
12/07/2023 1645	7	238	-34	285	25	7627703.09
12/07/2023 1700	5	240	-37	288	25	4543998.11
12/07/2023 1715	2	242	-40	290	25	2047249.03
12/07/2023 1730	-1	244	-43	293	25	391463.34
12/07/2023 1745	-4	246	-45	296	25	32251.63
12/07/2023 1800	-7	248	-48	299	25	1233.63
12/07/2023 1815	-10	249	-51	303	25	50.28
12/07/2023 1830	-13	251	-53	307	25	5.01
12/07/2023 1845	-16	253	-56	312	25	1.53
12/07/2023 1900	-19	254	-58	317	25	1.06

12/07/2023 1915	-22	256	-60	323	25	0.5
12/07/2023 1930	-25	258	-62	329	24	0.5
12/07/2023 1945	-28	259	-63	336	24	0.5
12/07/2023 2000	-32	261	-65	344	24	0.5
12/07/2023 2015	-35	263	-65	352	24	0.5
12/07/2023 2030	-38	264	-65	1	24	0.5
12/07/2023 2045	-41	266	-65	9	24	0.5
12/07/2023 2100	-44	268	-65	18	24	0.5
12/07/2023 2115	-48	270	-64	25	24	0.5
12/07/2023 2130	-51	272	-62	33	24	0.5
12/07/2023 2145	-54	274	-60	39	24	0.5
12/07/2023 2200	-57	276	-58	45	24	0.5
12/07/2023 2215	-60	279	-56	50	23	0.5
12/07/2023 2230	-64	282	-54	55	23	0.5
12/07/2023 2245	-67	285	-51	59	23	0.5
12/07/2023 2300	-70	289	-49	62	23	0.5
12/07/2023 2315	-73	295	-46	66	23	0.5
12/07/2023 2330	-76	302	-43	69	23	0.5
12/07/2023 2345	-78	312	-40	72	23	0.5
12/08/2023 0000	-80	327	-37	74	23	0.5
12/08/2023 0015	-81	348	-34	77	23	0.5
12/08/2023 0030	-81	11	-31	79	23	0.5
12/08/2023 0045	-80	32	-28	81	23	0.5
12/08/2023 0100	-78	47	-25	84	23	0.5
12/08/2023 0115	-76	57	-22	86	22	0.5
12/08/2023 0130	-73	65	-19	88	22	0.5
12/08/2023 0145	-70	70	-16	90	22	0.5
12/08/2023 0200	-67	75	-13	92	22	0.5
12/08/2023 0215	-64	78	-10	93	22	0.5
12/08/2023 0230	-61	81	-7	95	22	0.5
12/08/2023 0245	-57	84	-4	97	22	0.5
12/08/2023 0300	-54	86	0	99	22	0.54
12/08/2023 0315	-51	88	3	101	22	0.62
12/08/2023 0330	-48	90	6	103	22	0.76
12/08/2023 0345	-45	92	9	105	22	0.92
12/08/2023 0400	-41	94	12	107	22	1.11
12/08/2023 0415	-38	96	14	109	21	1.32
12/08/2023 0430	-35	97	17	112	21	1.54
12/08/2023 0445	-32	99	20	114	21	1.76
12/08/2023 0500	-29	101	23	117	21	1.99
12/08/2023 0515	-25	102	26	119	21	2.23
12/08/2023 0530	-22	104	28	122	21	2.45
12/08/2023 0545	-19	105	31	125	21	3.22
12/08/2023 0600	-16	107	33	128	21	3.85
12/08/2023 0615	-13	109	36	131	21	7.03
12/08/2023 0630	-10	111	38	135	21	43.95
12/08/2023 0645	-7	112	40	139	21	969.87

12/08/2023 0700	-4	114	42	143	21	25944.38
12/08/2023 0715	-1	116	44	147	20	337177.92
12/08/2023 0730	2	118	45	152	20	1897404.97
12/08/2023 0745	5	120	47	157	20	4329852.89
12/08/2023 0800	7	122	48	162	20	7373385.53
12/08/2023 0815	10	124	49	167	20	10860191.77
12/08/2023 0830	13	127	49	173	20	14703223.01
12/08/2023 0845	15	129	49	178	20	18734152.82
12/08/2023 0900	18	131	49	184	20	22851177.86
12/08/2023 0915	20	134	49	189	20	27032676.31
12/08/2023 0930	22	137	48	195	20	31234338.49
12/08/2023 0945	24	140	47	200	20	35360647.11
12/08/2023 1000	26	143	46	205	20	39315236.47
12/08/2023 1015	28	146	44	210	19	43035679.78
12/08/2023 1030	30	150	43	214	19	46481013.5
12/08/2023 1045	31	153	41	218	19	49607807.34
12/08/2023 1100	33	157	39	222	19	52365488.92
12/08/2023 1115	34	161	36	226	19	54707555.51
12/08/2023 1130	35	165	34	229	19	56601910.31
12/08/2023 1145	35	169	32	232	19	58032161.33
12/08/2023 1200	36	173	29	235	19	58992579.93
12/08/2023 1215	36	178	26	238	19	59482291.4
12/08/2023 1230	36	182	24	240	19	59501608.39
12/08/2023 1245	36	186	21	243	19	59050554.14
12/08/2023 1300	35	190	18	245	19	58128812.08
12/08/2023 1315	35	195	15	247	18	56737060.01
12/08/2023 1330	34	199	12	250	18	54880432.84
12/08/2023 1345	33	203	9	252	18	52574216.31
12/08/2023 1400	31	206	6	254	18	49849144.55
12/08/2023 1415	30	210	3	255	18	46750819.87
12/08/2023 1430	28	213	0	257	18	43329994.68
12/08/2023 1445	26	217	-3	259	18	39630825.06
12/08/2023 1500	24	220	-6	261	18	35693730.5
12/08/2023 1515	22	223	-9	263	18	31578427.92
12/08/2023 1530	20	226	-13	265	18	27379088.18
12/08/2023 1545	18	228	-16	266	18	23193560.68
12/08/2023 1600	15	231	-19	268	18	19070895.26
12/08/2023 1615	13	233	-22	270	17	15030799.96
12/08/2023 1630	10	236	-25	272	17	11165969.46
12/08/2023 1645	8	238	-28	274	17	7645001.52
12/08/2023 1700	5	240	-31	276	17	4562924.73
12/08/2023 1715	2	242	-34	278	17	2063547.36
12/08/2023 1730	-1	244	-37	280	17	398605.31
12/08/2023 1745	-4	246	-41	282	17	33236.73
12/08/2023 1800	-7	248	-44	284	17	1281.07
12/08/2023 1815	-10	249	-47	287	17	52.02
12/08/2023 1830	-13	251	-49	290	17	5.13

12/08/2023 1845	-16	253	-52	293	17	1.55
12/08/2023 1900	-19	254	-55	297	17	1.07
12/08/2023 1915	-22	256	-58	301	17	0.5
12/08/2023 1930	-25	258	-61	305	16	0.5
12/08/2023 1945	-28	259	-63	311	16	0.5
12/08/2023 2000	-32	261	-65	317	16	0.5
12/08/2023 2015	-35	262	-67	324	16	0.5
12/08/2023 2030	-38	264	-69	332	16	0.5
12/08/2023 2045	-41	266	-70	342	16	0.5
12/08/2023 2100	-44	268	-71	352	16	0.5
12/08/2023 2115	-48	269	-71	3	16	0.5
12/08/2023 2130	-51	271	-71	14	16	0.5
12/08/2023 2145	-54	273	-70	24	16	0.5
12/08/2023 2200	-57	276	-68	33	16	0.5
12/08/2023 2215	-60	278	-67	41	16	0.5
12/08/2023 2230	-63	281	-65	47	16	0.5
12/08/2023 2245	-67	285	-62	53	15	0.5
12/08/2023 2300	-70	289	-60	58	15	0.5
12/08/2023 2315	-73	294	-57	63	15	0.5
12/08/2023 2330	-76	302	-54	67	15	0.5
12/08/2023 2345	-78	312	-51	70	15	0.5
12/09/2023 0000	-80	326	-49	73	15	0.5
12/09/2023 0015	-82	347	-46	76	15	0.5
12/09/2023 0030	-82	10	-43	79	15	0.5
12/09/2023 0045	-80	31	-40	81	15	0.5
12/09/2023 0100	-78	47	-37	83	15	0.5
12/09/2023 0115	-76	57	-34	85	15	0.5
12/09/2023 0130	-73	65	-31	87	15	0.5
12/09/2023 0145	-70	70	-27	89	15	0.5
12/09/2023 0200	-67	75	-24	91	15	0.5
12/09/2023 0215	-64	78	-21	93	14	0.5
12/09/2023 0230	-61	81	-18	95	14	0.5
12/09/2023 0245	-58	84	-15	97	14	0.5
12/09/2023 0300	-54	86	-12	99	14	0.5
12/09/2023 0315	-51	88	-9	101	14	0.5
12/09/2023 0330	-48	90	-6	102	14	0.5
12/09/2023 0345	-45	92	-3	104	14	0.5
12/09/2023 0400	-42	94	0	106	14	0.52
12/09/2023 0415	-38	96	3	108	14	0.56
12/09/2023 0430	-35	97	6	110	14	0.63
12/09/2023 0445	-32	99	9	112	14	0.7
12/09/2023 0500	-29	101	11	114	14	0.78
12/09/2023 0515	-26	102	14	117	14	0.87
12/09/2023 0530	-23	104	17	119	13	0.97
12/09/2023 0545	-19	106	20	122	13	1.6
12/09/2023 0600	-16	107	22	124	13	2.09
12/09/2023 0615	-13	109	25	127	13	4.89

12/09/2023 0630	-10	111	27	130	13	37.14
12/09/2023 0645	-7	112	29	133	13	825.72
12/09/2023 0700	-4	114	32	136	13	22426.25
12/09/2023 0715	-1	116	34	140	13	304500.67
12/09/2023 0730	2	118	36	143	13	1801015.51
12/09/2023 0745	4	120	37	147	13	4187799.15
12/09/2023 0800	7	122	39	151	13	7202765.99
12/09/2023 0815	10	124	40	155	13	10662133.79
12/09/2023 0830	12	127	41	160	13	14483595.07
12/09/2023 0845	15	129	42	164	13	18500199.36
12/09/2023 0900	17	131	43	169	12	22604228.62
12/09/2023 0915	20	134	43	174	12	26772087.56
12/09/2023 0930	22	137	44	179	12	30962786
12/09/2023 0945	24	140	43	184	12	35083216.28
12/09/2023 1000	26	143	43	189	12	39035939.93
12/09/2023 1015	28	146	42	193	12	42756471.6
12/09/2023 1030	30	150	42	198	12	46203340.98
12/09/2023 1045	31	153	40	203	12	49334022.55
12/09/2023 1100	33	157	39	207	12	52098769.21
12/09/2023 1115	34	161	37	211	12	54450956.25
12/09/2023 1130	35	165	36	215	12	56357618.76
12/09/2023 1145	35	169	34	218	12	57801368.56
12/09/2023 1200	36	173	32	222	12	58775764.91
12/09/2023 1215	36	178	30	225	12	59279573.47
12/09/2023 1230	36	182	27	228	12	59312987.9
12/09/2023 1245	36	186	25	231	11	58876040.05
12/09/2023 1300	35	190	22	234	11	57968507.91
12/09/2023 1315	35	194	20	236	11	56591253.98
12/09/2023 1330	34	198	17	238	11	54749661.65
12/09/2023 1345	33	202	14	241	11	52459203.9
12/09/2023 1400	31	206	12	243	11	49750541.83
12/09/2023 1415	30	210	9	245	11	46668835.41
12/09/2023 1430	28	213	6	247	11	43264196.02
12/09/2023 1445	26	216	3	249	11	39580333.24
12/09/2023 1500	24	220	0	251	11	35657621.35
12/09/2023 1515	22	223	-3	253	11	31555824.76
12/09/2023 1530	20	225	-6	254	11	27368807.65
12/09/2023 1545	18	228	-9	256	11	23193942.78
12/09/2023 1600	15	231	-12	258	11	19080231.66
12/09/2023 1615	13	233	-15	260	11	15047503.76
12/09/2023 1630	10	235	-18	261	10	11187865.67
12/09/2023 1645	8	238	-21	263	10	7669428.37
12/09/2023 1700	5	240	-25	265	10	4587734.96
12/09/2023 1715	2	242	-28	266	10	2083997.66
12/09/2023 1730	-1	244	-31	268	10	407369.37
12/09/2023 1745	-4	246	-34	270	10	34435.02
12/09/2023 1800	-7	247	-37	272	10	1338.41

12/09/2023 1815	-10	249	-40	274	10	54.09
12/09/2023 1830	-13	251	-43	276	10	5.26
12/09/2023 1845	-16	253	-46	278	10	1.56
12/09/2023 1900	-19	254	-49	280	10	1.07
12/09/2023 1915	-22	256	-52	283	10	0.5
12/09/2023 1930	-25	257	-55	286	10	0.5
12/09/2023 1945	-28	259	-58	289	10	0.5
12/09/2023 2000	-31	261	-61	292	10	0.5
12/09/2023 2015	-35	262	-64	297	9	0.5
12/09/2023 2030	-38	264	-67	302	9	0.5
12/09/2023 2045	-41	266	-69	308	9	0.5
12/09/2023 2100	-44	267	-72	315	9	0.5
12/09/2023 2115	-47	269	-74	324	9	0.5
12/09/2023 2130	-51	271	-75	336	9	0.5
12/09/2023 2145	-54	273	-76	349	9	0.5
12/09/2023 2200	-57	275	-76	3	9	0.5
12/09/2023 2215	-60	278	-76	18	9	0.5
12/09/2023 2230	-63	281	-75	30	9	0.5
12/09/2023 2245	-67	284	-73	41	9	0.5
12/09/2023 2300	-70	289	-71	49	9	0.5
12/09/2023 2315	-73	294	-68	56	9	0.5
12/09/2023 2330	-76	301	-66	62	9	0.5
12/09/2023 2345	-78	311	-63	67	9	0.5
12/10/2023 0000	-80	326	-60	71	9	0.5
12/10/2023 0015	-82	346	-57	74	8	0.5
12/10/2023 0030	-82	10	-54	77	8	0.5
12/10/2023 0045	-81	31	-51	80	8	0.5
12/10/2023 0100	-79	47	-48	83	8	0.5
12/10/2023 0115	-76	57	-45	85	8	0.5
12/10/2023 0130	-73	65	-42	87	8	0.5
12/10/2023 0145	-70	71	-39	89	8	0.5
12/10/2023 0200	-67	75	-36	91	8	0.5
12/10/2023 0215	-64	78	-33	93	8	0.5
12/10/2023 0230	-61	82	-30	95	8	0.5
12/10/2023 0245	-58	84	-27	96	8	0.5
12/10/2023 0300	-54	86	-24	98	8	0.5
12/10/2023 0315	-51	89	-21	100	8	0.5
12/10/2023 0330	-48	91	-18	102	8	0.5
12/10/2023 0345	-45	92	-15	103	8	0.5
12/10/2023 0400	-42	94	-12	105	8	0.5
12/10/2023 0415	-38	96	-9	107	8	0.5
12/10/2023 0430	-35	98	-6	109	8	0.5
12/10/2023 0445	-32	99	-3	110	7	0.5
12/10/2023 0500	-29	101	0	112	7	0.51
12/10/2023 0515	-26	102	3	114	7	0.52
12/10/2023 0530	-23	104	5	116	7	0.54
12/10/2023 0545	-20	106	8	118	7	1.09

12/10/2023 0600	-16	107	11	121	7	1.48
12/10/2023 0615	-13	109	13	123	7	3.97
12/10/2023 0630	-10	111	16	125	7	32.25
12/10/2023 0645	-7	112	18	128	7	705.97
12/10/2023 0700	-4	114	21	130	7	19406.71
12/10/2023 0715	-2	116	23	133	7	274911.97
12/10/2023 0730	2	118	25	136	7	1709535.99
12/10/2023 0745	4	120	27	139	7	4050448.85
12/10/2023 0800	7	122	29	142	7	7037468.36
12/10/2023 0815	10	124	31	146	7	10470258.48
12/10/2023 0830	12	127	33	149	7	14270603.02
12/10/2023 0845	15	129	34	153	7	18273414.15
12/10/2023 0900	17	131	35	157	7	22365318.76
12/10/2023 0915	20	134	36	161	6	26520439.54
12/10/2023 0930	22	137	37	165	6	30700845.16
12/10/2023 0945	24	140	38	170	6	34815919.49
12/10/2023 1000	26	143	38	174	6	38767345.87
12/10/2023 1015	28	146	38	178	6	42488622.36
12/10/2023 1030	30	150	38	183	6	45937659.86
12/10/2023 1045	31	153	38	187	6	49072721.03
12/10/2023 1100	32	157	37	191	6	51844858.66
12/10/2023 1115	34	161	37	196	6	54207379.08
12/10/2023 1130	34	165	36	200	6	56126520.74
12/10/2023 1145	35	169	35	204	6	57583946.87
12/10/2023 1200	36	173	33	207	6	58572521.39
12/10/2023 1215	36	177	32	211	6	59090648.69
12/10/2023 1230	36	182	30	214	6	59138397.25
12/10/2023 1245	36	186	28	218	6	58715802.24
12/10/2023 1300	35	190	26	221	6	57822727.63
12/10/2023 1315	35	194	24	224	6	56460199.03
12/10/2023 1330	34	198	22	227	6	54633805.77
12/10/2023 1345	33	202	19	229	6	52359150.75
12/10/2023 1400	31	206	17	232	5	49666777.16
12/10/2023 1415	30	210	14	234	5	46601406.26
12/10/2023 1430	28	213	12	236	5	43212568.19
12/10/2023 1445	26	216	9	238	5	39543590.52
12/10/2023 1500	24	219	6	241	5	35634792.53
12/10/2023 1515	22	222	4	243	5	31545894.9
12/10/2023 1530	20	225	1	244	5	27370402.64
12/10/2023 1545	18	228	-2	246	5	23205315.42
12/10/2023 1600	15	231	-5	248	5	19099742.72
12/10/2023 1615	13	233	-8	250	5	15073580.32
12/10/2023 1630	10	235	-11	251	5	11218102.53
12/10/2023 1645	8	237	-14	253	5	7700945.02
12/10/2023 1700	5	240	-17	255	5	4618402.12
12/10/2023 1715	2	242	-20	256	5	2108621.21
12/10/2023 1730	-1	244	-23	258	5	417812.41

12/10/2023 1745	-4	245	-26	259	5	35862.75
12/10/2023 1800	-7	247	-29	261	5	1406.67
12/10/2023 1815	-10	249	-32	263	5	56.54
12/10/2023 1830	-13	251	-35	264	5	5.41
12/10/2023 1845	-16	252	-38	266	5	1.58
12/10/2023 1900	-19	254	-41	267	5	1.07
12/10/2023 1915	-22	256	-44	269	4	0.5
12/10/2023 1930	-25	257	-47	271	4	0.5
12/10/2023 1945	-28	259	-50	273	4	0.5
12/10/2023 2000	-31	260	-54	275	4	0.5
12/10/2023 2015	-35	262	-57	277	4	0.5
12/10/2023 2030	-38	264	-60	280	4	0.5
12/10/2023 2045	-41	265	-63	283	4	0.5
12/10/2023 2100	-44	267	-66	286	4	0.5
12/10/2023 2115	-47	269	-69	290	4	0.5
12/10/2023 2130	-51	271	-71	295	4	0.5
12/10/2023 2145	-54	273	-74	301	4	0.5
12/10/2023 2200	-57	275	-77	310	4	0.5
12/10/2023 2215	-60	278	-79	322	4	0.5
12/10/2023 2230	-63	281	-80	338	4	0.5
12/10/2023 2245	-67	284	-81	358	4	0.5
12/10/2023 2300	-70	288	-81	19	4	0.5
12/10/2023 2315	-73	294	-79	36	4	0.5
12/10/2023 2330	-75	301	-77	49	4	0.5
12/10/2023 2345	-78	310	-75	58	4	0.5
12/11/2023 0000	-80	325	-72	65	4	0.5
12/11/2023 0015	-82	345	-69	70	4	0.5
12/11/2023 0030	-82	9	-66	75	4	0.5
12/11/2023 0045	-81	31	-64	78	4	0.5
12/11/2023 0100	-79	47	-61	81	3	0.5
12/11/2023 0115	-76	57	-58	84	3	0.5
12/11/2023 0130	-73	65	-55	86	3	0.5
12/11/2023 0145	-70	71	-51	88	3	0.5
12/11/2023 0200	-67	75	-48	90	3	0.5
12/11/2023 0215	-64	79	-45	92	3	0.5
12/11/2023 0230	-61	82	-42	94	3	0.5
12/11/2023 0245	-58	84	-39	96	3	0.5
12/11/2023 0300	-55	87	-36	97	3	0.5
12/11/2023 0315	-51	89	-33	99	3	0.5
12/11/2023 0330	-48	91	-30	100	3	0.5
12/11/2023 0345	-45	92	-27	102	3	0.5
12/11/2023 0400	-42	94	-24	104	3	0.5
12/11/2023 0415	-39	96	-21	105	3	0.5
12/11/2023 0430	-35	98	-18	107	3	0.5
12/11/2023 0445	-32	99	-15	108	3	0.5
12/11/2023 0500	-29	101	-13	110	3	0.5
12/11/2023 0515	-26	102	-10	112	3	0.5

12/11/2023 0530	-23	104	-7	114	3	0.5
12/11/2023 0545	-20	106	-4	115	3	1.03
12/11/2023 0600	-17	107	-1	117	3	1.37
12/11/2023 0615	-14	109	2	119	3	3.6
12/11/2023 0630	-11	111	4	121	3	28.53
12/11/2023 0645	-8	112	7	123	3	606.07
12/11/2023 0700	-5	114	9	125	3	16817.02
12/11/2023 0715	-2	116	12	128	3	248182.03
12/11/2023 0730	2	118	14	130	3	1622905.73
12/11/2023 0745	4	120	16	132	2	3917855.1
12/11/2023 0800	7	122	19	135	2	6877530.56
12/11/2023 0815	10	124	21	138	2	10284641.32
12/11/2023 0830	12	127	23	141	2	14064371
12/11/2023 0845	15	129	25	144	2	18053924.2
12/11/2023 0900	17	131	26	147	2	22134561.46
12/11/2023 0915	19	134	28	150	2	26277855.66
12/11/2023 0930	22	137	29	154	2	30448668.25
12/11/2023 0945	24	140	31	157	2	34558927.73
12/11/2023 1000	26	143	32	161	2	38509622.56
12/11/2023 1015	28	146	33	165	2	42232289.54
12/11/2023 1030	29	150	33	168	2	45684126.17
12/11/2023 1045	31	153	34	172	2	48824071.51
12/11/2023 1100	32	157	34	176	2	51603945.19
12/11/2023 1115	33	161	34	180	2	53977027.1
12/11/2023 1130	34	165	34	184	2	55908824.5
12/11/2023 1145	35	169	34	188	2	57380099.51
12/11/2023 1200	36	173	33	192	2	58383040.34
12/11/2023 1215	36	177	32	196	2	58915691.81
12/11/2023 1230	36	182	31	200	2	58977992.81
12/11/2023 1245	36	186	30	203	2	58569976.6
12/11/2023 1300	35	190	29	207	2	57691583.73
12/11/2023 1315	35	194	27	210	2	56343980.65
12/11/2023 1330	34	198	25	213	2	54532921.01
12/11/2023 1345	33	202	24	217	2	52274083.46
12/11/2023 1400	31	206	22	219	2	49597852.81
12/11/2023 1415	30	209	20	222	2	46548517.85
12/11/2023 1430	28	213	17	225	2	43175085.71
12/11/2023 1445	26	216	15	227	2	39520562.14
12/11/2023 1500	24	219	13	230	2	35625199.22
12/11/2023 1515	22	222	10	232	2	31548584.92
12/11/2023 1530	20	225	8	234	2	27383815.51
12/11/2023 1545	18	228	5	236	2	23227619.1
12/11/2023 1600	15	230	3	238	1	19129366.31
12/11/2023 1615	13	233	0	240	1	15108968.94
12/11/2023 1630	10	235	-3	242	1	11256630.18
12/11/2023 1645	8	237	-6	244	1	7739512.48
12/11/2023 1700	5	239	-8	245	1	4654900.16

12/11/2023 1715	2	241	-11	247	1	2137446.16
12/11/2023 1730	-1	243	-14	249	1	430002.31
12/11/2023 1745	-4	245	-17	250	1	37539.47
12/11/2023 1800	-7	247	-20	252	1	1487.13
12/11/2023 1815	-10	249	-23	253	1	59.39
12/11/2023 1830	-13	251	-26	255	1	5.59
12/11/2023 1845	-16	252	-29	256	1	1.6
12/11/2023 1900	-19	254	-32	257	1	1.08
12/11/2023 1915	-22	256	-35	259	1	0.5
12/11/2023 1930	-25	257	-38	260	1	0.5
12/11/2023 1945	-28	259	-41	262	1	0.5
12/11/2023 2000	-31	260	-44	263	1	0.5
12/11/2023 2015	-35	262	-47	265	1	0.5
12/11/2023 2030	-38	264	-50	266	1	0.5
12/11/2023 2045	-41	265	-53	268	1	0.5
12/11/2023 2100	-44	267	-56	270	1	0.5
12/11/2023 2115	-47	269	-59	271	1	0.5
12/11/2023 2130	-51	271	-62	274	1	0.5
12/11/2023 2145	-54	273	-65	276	1	0.5
12/11/2023 2200	-57	275	-68	278	1	0.5
12/11/2023 2215	-60	278	-71	282	1	0.5
12/11/2023 2230	-63	280	-74	286	1	0.5
12/11/2023 2245	-66	284	-77	291	1	0.5
12/11/2023 2300	-70	288	-80	299	1	0.5
12/11/2023 2315	-73	293	-82	313	1	0.5
12/11/2023 2330	-75	300	-84	335	1	0.5
12/11/2023 2345	-78	310	-85	8	1	0.5
12/12/2023 0000	-80	324	-83	37	1	0.5
12/12/2023 0015	-82	344	-81	55	1	0.5
12/12/2023 0030	-82	9	-79	66	1	0.5
12/12/2023 0045	-81	31	-76	72	1	0.5
12/12/2023 0100	-79	46	-73	77	1	0.5
12/12/2023 0115	-76	57	-70	81	1	0.5
12/12/2023 0130	-73	65	-67	84	1	0.5
12/12/2023 0145	-70	71	-64	86	1	0.5
12/12/2023 0200	-67	75	-61	88	1	0.5
12/12/2023 0215	-64	79	-58	90	1	0.5
12/12/2023 0230	-61	82	-55	92	1	0.5
12/12/2023 0245	-58	84	-52	94	1	0.5
12/12/2023 0300	-55	87	-49	96	1	0.5
12/12/2023 0315	-52	89	-46	97	1	0.5
12/12/2023 0330	-48	91	-43	99	1	0.5
12/12/2023 0345	-45	92	-40	100	1	0.5
12/12/2023 0400	-42	94	-37	101	1	0.5
12/12/2023 0415	-39	96	-34	103	0	0.5
12/12/2023 0430	-36	98	-31	104	0	0.5
12/12/2023 0445	-32	99	-28	106	0	0.5

12/12/2023 0500	-29	101	-25	107	0	0.5
12/12/2023 0515	-26	102	-22	109	0	0.5
12/12/2023 0530	-23	104	-19	110	0	0.5
12/12/2023 0545	-20	106	-16	112	0	1.02
12/12/2023 0600	-17	107	-13	113	0	1.34
12/12/2023 0615	-14	109	-11	115	0	3.38
12/12/2023 0630	-11	111	-8	117	0	25.45
12/12/2023 0645	-8	112	-5	118	0	522.31
12/12/2023 0700	-5	114	-3	120	0	14597.05
12/12/2023 0715	-2	116	1	122	0	224087.27
12/12/2023 0730	1	118	3	124	0	1541046.06
12/12/2023 0745	4	120	5	126	0	3790066.16
12/12/2023 0800	7	122	8	128	0	6722989.76
12/12/2023 0815	9	124	10	130	0	10105352.86
12/12/2023 0830	12	127	12	133	0	13865019.03
12/12/2023 0845	15	129	15	135	0	17841856.13
12/12/2023 0900	17	131	17	138	0	21912069.62
12/12/2023 0915	19	134	19	140	0	26044456.01
12/12/2023 0930	22	137	21	143	0	30206402.21
12/12/2023 0945	24	140	22	146	0	34312407.35
12/12/2023 1000	26	143	24	149	0	38262935.17
12/12/2023 1015	28	146	25	152	0	41987627.49
12/12/2023 1030	29	150	27	156	0	45442890.7
12/12/2023 1045	31	153	28	159	0	48588234.28
12/12/2023 1100	32	157	29	162	0	51376205.53
12/12/2023 1115	33	161	30	166	0	53760090.58
12/12/2023 1130	34	165	30	170	0	55704724.9
12/12/2023 1145	35	169	31	173	0	57190016.23
12/12/2023 1200	36	173	31	177	0	58207499.32
12/12/2023 1215	36	177	31	181	0	58754863.97
12/12/2023 1230	36	181	31	185	0	58831916.92
12/12/2023 1245	36	186	31	189	0	58438684.59
12/12/2023 1300	35	190	30	192	0	57575174.15
12/12/2023 1315	35	194	29	196	0	56242670.25
12/12/2023 1330	34	198	28	199	0	54447050.41
12/12/2023 1345	33	202	27	203	0	52204017.87
12/12/2023 1400	31	206	26	206	0	49543762.26
12/12/2023 1415	30	209	24	209	0	46510147.98
12/12/2023 1430	28	213	23	212	0	43151715.69
12/12/2023 1445	26	216	21	215	0	39511205.79
12/12/2023 1500	24	219	19	218	0	35628789.61
12/12/2023 1515	22	222	17	221	0	31563835.96
12/12/2023 1530	20	225	15	223	0	27408984.58
12/12/2023 1545	18	228	13	226	0	23260790.38
12/12/2023 1600	15	230	11	228	0	19169035.96
12/12/2023 1615	13	233	8	230	0	15153605.53
12/12/2023 1630	10	235	6	232	0	11303397.79

12/12/2023 1645	8	237	4	234	0	7785092.18
12/12/2023 1700	5	239	1	236	0	4697204.01
12/12/2023 1715	2	241	-2	238	0	2170507.13
12/12/2023 1730	-1	243	-4	240	0	444018
12/12/2023 1745	-4	245	-7	242	0	39488.31
12/12/2023 1800	-7	247	-10	243	0	1581.29
12/12/2023 1815	-10	249	-13	245	0	62.71
12/12/2023 1830	-13	250	-15	246	0	5.78
12/12/2023 1845	-16	252	-18	248	0	1.63
12/12/2023 1900	-19	254	-21	249	0	1.08
12/12/2023 1915	-22	255	-24	251	0	0.5
12/12/2023 1930	-25	257	-27	252	0	0.5
12/12/2023 1945	-28	259	-30	254	0	0.5
12/12/2023 2000	-31	260	-33	255	0	0.5
12/12/2023 2015	-34	262	-36	256	0	0.5
12/12/2023 2030	-38	263	-39	258	0	0.5
12/12/2023 2045	-41	265	-42	259	0	0.5
12/12/2023 2100	-44	267	-45	260	0	0.5
12/12/2023 2115	-47	269	-48	262	0	0.5
12/12/2023 2130	-50	271	-51	263	0	0.5
12/12/2023 2145	-54	273	-54	264	0	0.5
12/12/2023 2200	-57	275	-57	266	0	0.5
12/12/2023 2215	-60	277	-60	267	0	0.5
12/12/2023 2230	-63	280	-63	269	0	0.5
12/12/2023 2245	-66	284	-66	271	0	0.5
12/12/2023 2300	-69	288	-69	273	0	0.5
12/12/2023 2315	-73	293	-72	275	0	0.5
12/12/2023 2330	-75	300	-75	278	0	0.5
12/12/2023 2345	-78	309	-78	282	0	0.5
12/13/2023 0000	-80	323	-81	289	0	0.5
12/13/2023 0015	-82	343	-84	299	0	0.5
12/13/2023 0030	-82	8	-86	324	0	0.5
12/13/2023 0045	-81	30	-87	14	0	0.5
12/13/2023 0100	-79	46	-85	51	0	0.5
12/13/2023 0115	-76	57	-82	67	0	0.5
12/13/2023 0130	-74	65	-79	75	0	0.5
12/13/2023 0145	-71	71	-77	80	0	0.5
12/13/2023 0200	-68	75	-74	84	0	0.5
12/13/2023 0215	-64	79	-71	86	0	0.5
12/13/2023 0230	-61	82	-67	89	0	0.5
12/13/2023 0245	-58	84	-64	91	0	0.5
12/13/2023 0300	-55	87	-61	92	0	0.5
12/13/2023 0315	-52	89	-58	94	0	0.5
12/13/2023 0330	-48	91	-55	95	0	0.5
12/13/2023 0345	-45	93	-52	97	0	0.5
12/13/2023 0400	-42	94	-49	98	0	0.5
12/13/2023 0415	-39	96	-46	100	0	0.5

12/13/2023 0430	-36	98	-43	101	0	0.5
12/13/2023 0445	-32	99	-40	102	0	0.5
12/13/2023 0500	-29	101	-37	104	0	0.5
12/13/2023 0515	-26	102	-34	105	0	0.5
12/13/2023 0530	-23	104	-32	106	0	0.5
12/13/2023 0545	-20	106	-29	108	0	1.02
12/13/2023 0600	-17	107	-26	109	1	1.31
12/13/2023 0615	-14	109	-23	110	1	3.18
12/13/2023 0630	-11	111	-20	112	1	22.81
12/13/2023 0645	-8	112	-17	113	1	451.87
12/13/2023 0700	-5	114	-14	115	1	12694.63
12/13/2023 0715	-2	116	-12	116	1	202412.32
12/13/2023 0730	1	118	-9	118	1	1463861.59
12/13/2023 0745	4	120	-6	120	1	3667124.69
12/13/2023 0800	7	122	-4	122	1	6573882.66
12/13/2023 0815	9	124	-1	123	1	9932459.12
12/13/2023 0830	12	126	2	125	1	13672662.88
12/13/2023 0845	14	129	4	127	1	17637335.86
12/13/2023 0900	17	131	7	129	1	21697956.05
12/13/2023 0915	19	134	9	131	1	25820357.94
12/13/2023 0930	21	137	11	134	1	29974189.13
12/13/2023 0945	24	140	13	136	1	34076520.24
12/13/2023 1000	26	143	15	139	1	38027445.9
12/13/2023 1015	27	146	17	141	1	41754787.9
12/13/2023 1030	29	149	19	144	1	45214099.86
12/13/2023 1045	31	153	21	147	1	48365362.49
12/13/2023 1100	32	157	23	150	1	51161806.65
12/13/2023 1115	33	161	24	153	1	53556748.39
12/13/2023 1130	34	165	26	156	1	55514404.66
12/13/2023 1145	35	169	27	159	1	57013874.53
12/13/2023 1200	35	173	28	163	1	58046063.58
12/13/2023 1215	36	177	29	166	1	58608313.91
12/13/2023 1230	36	181	29	170	1	58700299.27
12/13/2023 1245	36	186	30	173	1	58322034.78
12/13/2023 1300	35	190	30	177	1	57473583.98
12/13/2023 1315	35	194	30	181	1	56156327.09
12/13/2023 1330	34	198	30	184	1	54376226.33
12/13/2023 1345	33	202	29	188	1	52148961.1
12/13/2023 1400	31	206	29	192	1	49504492.12
12/13/2023 1415	30	209	28	195	1	46486268.7
12/13/2023 1430	28	213	27	199	1	43142419.58
12/13/2023 1445	26	216	26	202	1	39515473.35
12/13/2023 1500	24	219	25	205	1	35645506.65
12/13/2023 1515	22	222	24	208	1	31591585.45
12/13/2023 1530	20	225	22	211	1	27445845.86
12/13/2023 1545	18	228	20	214	1	23304763.62
12/13/2023 1600	15	230	19	217	1	19218682.4

12/13/2023 1615	13	233	17	220	1	15207423.94
12/13/2023 1630	10	235	15	222	1	11358354.74
12/13/2023 1645	8	237	13	225	1	7837646.91
12/13/2023 1700	5	239	10	227	1	4745290.22
12/13/2023 1715	2	241	8	229	1	2207844.89
12/13/2023 1730	-1	243	6	231	1	459949.55
12/13/2023 1745	-4	245	3	233	1	41736.36
12/13/2023 1800	-7	247	1	235	2	1690.97
12/13/2023 1815	-10	249	-2	237	2	66.54
12/13/2023 1830	-13	250	-5	239	2	6.01
12/13/2023 1845	-16	252	-7	241	2	1.65
12/13/2023 1900	-19	254	-10	242	2	1.09
12/13/2023 1915	-22	255	-13	244	2	0.5
12/13/2023 1930	-25	257	-15	246	2	0.5
12/13/2023 1945	-28	258	-18	247	2	0.5
12/13/2023 2000	-31	260	-21	249	2	0.5
12/13/2023 2015	-34	262	-24	250	2	0.5
12/13/2023 2030	-38	263	-27	251	2	0.5
12/13/2023 2045	-41	265	-30	253	2	0.5
12/13/2023 2100	-44	267	-33	254	2	0.5
12/13/2023 2115	-47	269	-36	255	2	0.5
12/13/2023 2130	-50	270	-39	257	2	0.5
12/13/2023 2145	-54	272	-41	258	2	0.5
12/13/2023 2200	-57	275	-44	259	2	0.5
12/13/2023 2215	-60	277	-47	261	2	0.5
12/13/2023 2230	-63	280	-50	262	2	0.5
12/13/2023 2245	-66	283	-53	263	2	0.5
12/13/2023 2300	-69	287	-56	265	2	0.5
12/13/2023 2315	-72	292	-60	266	2	0.5
12/13/2023 2330	-75	299	-63	268	2	0.5
12/13/2023 2345	-78	309	-66	270	2	0.5
12/14/2023 0000	-80	322	-69	272	2	0.5
12/14/2023 0015	-82	343	-72	274	2	0.5
12/14/2023 0030	-82	7	-75	277	2	0.5
12/14/2023 0045	-81	30	-78	280	2	0.5
12/14/2023 0100	-79	46	-81	286	2	0.5
12/14/2023 0115	-77	57	-83	295	2	0.5
12/14/2023 0130	-74	65	-86	316	2	0.5
12/14/2023 0145	-71	71	-87	5	3	0.5
12/14/2023 0200	-68	75	-85	49	3	0.5
12/14/2023 0215	-65	79	-83	67	3	0.5
12/14/2023 0230	-61	82	-80	75	3	0.5
12/14/2023 0245	-58	84	-77	80	3	0.5
12/14/2023 0300	-55	87	-74	84	3	0.5
12/14/2023 0315	-52	89	-71	86	3	0.5
12/14/2023 0330	-49	91	-68	88	3	0.5
12/14/2023 0345	-45	93	-65	90	3	0.5

12/14/2023 0400	-42	94	-62	92	3	0.5
12/14/2023 0415	-39	96	-59	94	3	0.5
12/14/2023 0430	-36	98	-56	95	3	0.5
12/14/2023 0445	-33	99	-53	97	3	0.5
12/14/2023 0500	-29	101	-50	98	3	0.5
12/14/2023 0515	-26	102	-47	99	3	0.5
12/14/2023 0530	-23	104	-44	101	3	0.5
12/14/2023 0545	-20	106	-41	102	3	0.5
12/14/2023 0600	-17	107	-38	103	3	1.29
12/14/2023 0615	-14	109	-35	104	3	3
12/14/2023 0630	-11	111	-32	106	3	20.53
12/14/2023 0645	-8	112	-29	107	3	392.5
12/14/2023 0700	-5	114	-26	109	3	11064.61
12/14/2023 0715	-2	116	-23	110	3	182951.28
12/14/2023 0730	1	118	-20	111	3	1391241.36
12/14/2023 0745	4	120	-18	113	3	3549066.7
12/14/2023 0800	6	122	-15	114	4	6430245.17
12/14/2023 0815	9	124	-12	116	4	9766021.6
12/14/2023 0830	12	126	-9	117	4	13487413.59
12/14/2023 0845	14	129	-6	119	4	17440488.04
12/14/2023 0900	17	131	-4	121	4	21492333.17
12/14/2023 0915	19	134	-1	123	4	25605676.07
12/14/2023 0930	21	137	2	125	4	29752166.26
12/14/2023 0945	23	140	4	127	4	33851423.71
12/14/2023 1000	25	143	6	129	4	37803313.85
12/14/2023 1015	27	146	9	131	4	41533919.89
12/14/2023 1030	29	149	11	133	4	44997896.21
12/14/2023 1045	31	153	13	135	4	48155602.99
12/14/2023 1100	32	157	15	138	4	50960906.86
12/14/2023 1115	33	160	18	140	4	53367169.12
12/14/2023 1130	34	164	19	143	4	55338035.54
12/14/2023 1145	35	169	21	146	4	56851840.74
12/14/2023 1200	35	173	23	149	4	57898887.22
12/14/2023 1215	36	177	24	152	4	58476179.16
12/14/2023 1230	36	181	26	155	4	58583258.23
12/14/2023 1245	36	185	27	158	4	58220124.4
12/14/2023 1300	35	190	28	162	4	57386887.27
12/14/2023 1315	34	194	29	165	4	56085000.32
12/14/2023 1330	34	198	30	169	5	54320472.56
12/14/2023 1345	33	202	30	173	5	52108913.72
12/14/2023 1400	31	205	31	176	5	49480024.33
12/14/2023 1415	30	209	31	180	5	46476848.39
12/14/2023 1430	28	212	31	184	5	43147155.3
12/14/2023 1445	26	216	30	187	5	39533312.98
12/14/2023 1500	24	219	30	191	5	35675290.15
12/14/2023 1515	22	222	29	195	5	31631769.1
12/14/2023 1530	20	225	28	198	5	27494334.89

12/14/2023 1545	18	227	27	202	5	23359472.76
12/14/2023 1600	15	230	26	205	5	19278235.35
12/14/2023 1615	13	232	25	208	5	15270357.57
12/14/2023 1630	10	235	23	211	5	11421451.89
12/14/2023 1645	8	237	22	214	5	7897142.08
12/14/2023 1700	5	239	20	217	5	4799137.74
12/14/2023 1715	2	241	18	220	5	2249506.15
12/14/2023 1730	0	243	16	223	5	695927.59
12/14/2023 1745	-4	245	14	225	5	44315.18
12/14/2023 1800	-7	247	11	227	5	1818.41
12/14/2023 1815	-10	249	9	230	6	71.01
12/14/2023 1830	-13	250	7	232	6	6.3
12/14/2023 1845	-16	252	4	234	6	1.71
12/14/2023 1900	-19	254	2	236	6	1.11
12/14/2023 1915	-22	255	-1	238	6	0.5
12/14/2023 1930	-25	257	-3	240	6	0.5
12/14/2023 1945	-28	258	-6	242	6	0.5
12/14/2023 2000	-31	260	-9	243	6	0.5
12/14/2023 2015	-34	262	-12	245	6	0.5
12/14/2023 2030	-37	263	-14	247	6	0.5
12/14/2023 2045	-41	265	-17	248	6	0.5
12/14/2023 2100	-44	267	-20	250	6	0.5
12/14/2023 2115	-47	268	-23	251	6	0.5
12/14/2023 2130	-50	270	-26	253	6	0.5
12/14/2023 2145	-54	272	-29	254	6	0.5
12/14/2023 2200	-57	274	-32	255	6	0.5
12/14/2023 2215	-60	277	-35	257	6	0.5
12/14/2023 2230	-63	280	-38	258	6	0.5
12/14/2023 2245	-66	283	-41	260	7	0.5
12/14/2023 2300	-69	287	-44	261	7	0.5
12/14/2023 2315	-72	292	-47	263	7	0.5
12/14/2023 2330	-75	299	-50	264	7	0.5
12/14/2023 2345	-78	308	-53	266	7	0.5
12/15/2023 0000	-80	322	-56	267	7	0.5
12/15/2023 0015	-82	342	-59	269	7	0.5
12/15/2023 0030	-82	6	-62	271	7	0.5
12/15/2023 0045	-81	29	-65	273	7	0.5
12/15/2023 0100	-79	46	-68	275	7	0.5
12/15/2023 0115	-77	57	-71	278	7	0.5
12/15/2023 0130	-74	65	-74	282	7	0.5
12/15/2023 0145	-71	71	-77	287	7	0.5
12/15/2023 0200	-68	75	-79	294	7	0.5
12/15/2023 0215	-65	79	-82	305	7	0.5
12/15/2023 0230	-61	82	-84	324	7	0.5
12/15/2023 0245	-58	84	-85	358	8	0.5
12/15/2023 0300	-55	87	-84	32	8	0.5
12/15/2023 0315	-52	89	-82	53	8	0.5

12/15/2023 0330	-49	91	-80	64	8	0.5
12/15/2023 0345	-45	93	-77	72	8	0.5
12/15/2023 0400	-42	94	-74	77	8	0.5
12/15/2023 0415	-39	96	-71	80	8	0.5
12/15/2023 0430	-36	98	-68	83	8	0.5
12/15/2023 0445	-33	99	-65	86	8	0.5
12/15/2023 0500	-30	101	-62	88	8	0.5
12/15/2023 0515	-26	102	-59	90	8	0.5
12/15/2023 0530	-23	104	-56	91	8	0.5
12/15/2023 0545	-20	106	-53	93	8	0.5
12/15/2023 0600	-17	107	-50	95	8	1.27
12/15/2023 0615	-14	109	-47	96	8	2.84
12/15/2023 0630	-11	111	-44	98	8	18.55
12/15/2023 0645	-8	112	-41	99	9	342.35
12/15/2023 0700	-5	114	-38	100	9	9667.92
12/15/2023 0715	-2	116	-35	102	9	165508.68
12/15/2023 0730	1	118	-32	103	9	1323060.06
12/15/2023 0745	4	120	-29	105	9	3435920.28
12/15/2023 0800	6	122	-26	106	9	6292111.78
12/15/2023 0815	9	124	-23	108	9	9606096.96
12/15/2023 0830	12	126	-20	109	9	13309376.66
12/15/2023 0845	14	129	-17	111	9	17251434.82
12/15/2023 0900	17	131	-14	112	9	21295312.13
12/15/2023 0915	19	134	-11	114	9	25400521.78
12/15/2023 0930	21	137	-8	115	9	29540465.56
12/15/2023 0945	23	140	-6	117	9	33637269.73
12/15/2023 1000	25	143	-3	119	9	37590694.11
12/15/2023 1015	27	146	0	121	10	41325169.25
12/15/2023 1030	29	149	3	122	10	44794418.09
12/15/2023 1045	31	153	5	124	10	47959096.41
12/15/2023 1100	32	157	8	126	10	50773656.1
12/15/2023 1115	33	160	10	129	10	53191511.47
12/15/2023 1130	34	164	13	131	10	55175778.59
12/15/2023 1145	35	168	15	133	10	56704070.28
12/15/2023 1200	35	173	17	136	10	57766113.45
12/15/2023 1215	36	177	19	138	10	58358586.47
12/15/2023 1230	36	181	21	141	10	58480901.47
12/15/2023 1245	35	185	23	144	10	58133040.17
12/15/2023 1300	35	189	25	147	10	57315148.16
12/15/2023 1315	34	194	27	150	10	56028730.26
12/15/2023 1330	34	198	28	153	10	54279805.8
12/15/2023 1345	33	201	29	157	11	52083871.26
12/15/2023 1400	31	205	31	160	11	49470337.62
12/15/2023 1415	30	209	32	164	11	46481853.3
12/15/2023 1430	28	212	32	168	11	43165878.81
12/15/2023 1445	26	216	33	172	11	39564670.89
12/15/2023 1500	24	219	33	176	11	35718078.54

12/15/2023 1515	22	222	34	180	11	31684322.66
12/15/2023 1530	20	225	33	184	11	27554388.5
12/15/2023 1545	18	227	33	188	11	23424853.15
12/15/2023 1600	15	230	33	191	11	19347625.28
12/15/2023 1615	13	232	32	195	11	15342340.84
12/15/2023 1630	10	235	31	199	11	11492642.87
12/15/2023 1645	8	237	30	203	11	7963546.96
12/15/2023 1700	5	239	29	206	12	4858728.8
12/15/2023 1715	2	241	27	210	12	2295543.46
12/15/2023 1730	0	243	26	213	12	717570.06
12/15/2023 1745	-4	245	24	216	12	47261.54
12/15/2023 1800	-6	247	22	219	12	1966.58
12/15/2023 1815	-9	248	20	222	12	76.6
12/15/2023 1830	-12	250	18	225	12	7.03
12/15/2023 1845	-16	252	16	227	12	2.12
12/15/2023 1900	-19	253	14	230	12	1.44
12/15/2023 1915	-22	255	11	232	12	0.76
12/15/2023 1930	-25	257	9	234	12	0.7
12/15/2023 1945	-28	258	6	236	12	0.63
12/15/2023 2000	-31	260	4	238	12	0.58
12/15/2023 2015	-34	261	1	240	13	0.53
12/15/2023 2030	-37	263	-2	242	13	0.51
12/15/2023 2045	-41	265	-4	244	13	0.5
12/15/2023 2100	-44	266	-7	246	13	0.5
12/15/2023 2115	-47	268	-10	248	13	0.5
12/15/2023 2130	-50	270	-13	249	13	0.5
12/15/2023 2145	-53	272	-16	251	13	0.5
12/15/2023 2200	-57	274	-18	253	13	0.5
12/15/2023 2215	-60	277	-21	254	13	0.5
12/15/2023 2230	-63	280	-24	256	13	0.5
12/15/2023 2245	-66	283	-27	257	13	0.5
12/15/2023 2300	-69	287	-30	259	13	0.5
12/15/2023 2315	-72	292	-33	261	14	0.5
12/15/2023 2330	-75	298	-36	262	14	0.5
12/15/2023 2345	-78	307	-39	264	14	0.5
12/16/2023 0000	-80	321	-42	265	14	0.5
12/16/2023 0015	-82	341	-45	267	14	0.5
12/16/2023 0030	-82	6	-48	269	14	0.5
12/16/2023 0045	-81	29	-51	271	14	0.5
12/16/2023 0100	-79	46	-54	273	14	0.5
12/16/2023 0115	-77	57	-57	275	14	0.5
12/16/2023 0130	-74	65	-60	278	14	0.5
12/16/2023 0145	-71	71	-63	280	14	0.5
12/16/2023 0200	-68	75	-66	284	14	0.5
12/16/2023 0215	-65	79	-69	288	15	0.5
12/16/2023 0230	-62	82	-72	293	15	0.5
12/16/2023 0245	-58	84	-75	299	15	0.5

12/16/2023 0300	-55	87	-77	308	15	0.5
12/16/2023 0315	-52	89	-80	320	15	0.5
12/16/2023 0330	-49	91	-81	338	15	0.5
12/16/2023 0345	-46	93	-82	359	15	0.5
12/16/2023 0400	-42	94	-81	21	15	0.5
12/16/2023 0415	-39	96	-80	38	15	0.5
12/16/2023 0430	-36	98	-77	50	15	0.5
12/16/2023 0445	-33	99	-75	59	15	0.5
12/16/2023 0500	-30	101	-72	66	15	0.5
12/16/2023 0515	-27	102	-69	71	16	0.5
12/16/2023 0530	-23	104	-66	75	16	0.5
12/16/2023 0545	-20	106	-63	78	16	0.5
12/16/2023 0600	-17	107	-60	81	16	1.25
12/16/2023 0615	-14	109	-57	83	16	2.7
12/16/2023 0630	-11	111	-54	85	16	16.84
12/16/2023 0645	-8	112	-51	87	16	299.9
12/16/2023 0700	-5	114	-48	89	16	8470.87
12/16/2023 0715	-2	116	-45	91	16	149900.25
12/16/2023 0730	1	118	-42	93	16	1259179.63
12/16/2023 0745	4	120	-39	94	16	3327704.49
12/16/2023 0800	6	122	-36	96	17	6159514.74
12/16/2023 0815	9	124	-33	98	17	9452736.44
12/16/2023 0830	12	126	-30	99	17	13138650.92
12/16/2023 0845	14	129	-27	101	17	17070294.48
12/16/2023 0900	16	131	-24	102	17	21107001.57
12/16/2023 0915	19	134	-21	104	17	25205002.22
12/16/2023 0930	21	137	-18	105	17	29339212.62
12/16/2023 0945	23	140	-15	107	17	33434203.78
12/16/2023 1000	25	143	-12	109	17	37389736.5
12/16/2023 1015	27	146	-9	110	17	41128677.31
12/16/2023 1030	29	149	-6	112	17	44603798.75
12/16/2023 1045	30	153	-3	114	18	47775976.49
12/16/2023 1100	32	156	0	115	18	50600195.45
12/16/2023 1115	33	160	3	117	18	53029923.82
12/16/2023 1130	34	164	5	119	18	55027783.77
12/16/2023 1145	35	168	8	121	18	56570707.21
12/16/2023 1200	35	172	11	123	18	57647874.14
12/16/2023 1215	36	177	13	126	18	58255651.36
12/16/2023 1230	36	181	16	128	18	58393325.66
12/16/2023 1245	35	185	18	130	18	58060858.2
12/16/2023 1300	35	189	21	133	18	57258420.86
12/16/2023 1315	34	193	23	136	18	55987548.55
12/16/2023 1330	34	197	25	139	19	54254235.95
12/16/2023 1345	33	201	27	142	19	52073824.61
12/16/2023 1400	31	205	29	145	19	49475407.98
12/16/2023 1415	30	209	31	148	19	46501248.04
12/16/2023 1430	28	212	32	152	19	43198544.72

12/16/2023 1445	26	215	34	155	19	39609491.93
12/16/2023 1500	24	219	35	159	19	35773809.57
12/16/2023 1515	22	222	36	163	19	31749182.55
12/16/2023 1530	20	224	37	167	19	27625945.55
12/16/2023 1545	18	227	37	172	19	23500842.3
12/16/2023 1600	15	230	38	176	20	19426784.21
12/16/2023 1615	13	232	38	180	20	15423309.9
12/16/2023 1630	10	235	38	185	20	11571884.67
12/16/2023 1645	8	237	38	189	20	8036835.29
12/16/2023 1700	5	239	37	193	20	4924049.3
12/16/2023 1715	2	241	36	197	20	2346014.68
12/16/2023 1730	0	243	35	201	20	741441.98
12/16/2023 1745	-3	245	34	205	20	50618.14
12/16/2023 1800	-6	247	33	209	20	2139.48
12/16/2023 1815	-9	248	31	213	20	84.36
12/16/2023 1830	-12	250	29	216	20	9.15
12/16/2023 1845	-15	252	28	219	21	3.85
12/16/2023 1900	-18	253	26	223	21	3.03
12/16/2023 1915	-22	255	23	226	21	2.22
12/16/2023 1930	-25	257	21	228	21	2.01
12/16/2023 1945	-28	258	19	231	21	1.81
12/16/2023 2000	-31	260	16	234	21	1.6
12/16/2023 2015	-34	261	14	236	21	1.39
12/16/2023 2030	-37	263	11	238	21	1.19
12/16/2023 2045	-41	265	9	241	21	1
12/16/2023 2100	-44	266	6	243	21	0.82
12/16/2023 2115	-47	268	4	245	22	0.68
12/16/2023 2130	-50	270	1	247	22	0.57
12/16/2023 2145	-53	272	-2	249	22	0.51
12/16/2023 2200	-57	274	-5	250	22	0.5
12/16/2023 2215	-60	277	-8	252	22	0.5
12/16/2023 2230	-63	279	-11	254	22	0.5
12/16/2023 2245	-66	283	-14	256	22	0.5
12/16/2023 2300	-69	286	-17	257	22	0.5
12/16/2023 2315	-72	291	-20	259	22	0.5
12/16/2023 2330	-75	298	-23	261	22	0.5
12/16/2023 2345	-78	307	-26	263	23	0.5
12/17/2023 0000	-80	320	-29	264	23	0.5
12/17/2023 0015	-82	340	-32	266	23	0.5
12/17/2023 0030	-82	5	-35	268	23	0.5
12/17/2023 0045	-81	28	-38	270	23	0.5
12/17/2023 0100	-79	45	-41	272	23	0.5
12/17/2023 0115	-77	57	-44	274	23	0.5
12/17/2023 0130	-74	65	-47	276	23	0.5
12/17/2023 0145	-71	71	-50	279	23	0.5
12/17/2023 0200	-68	75	-53	281	23	0.5
12/17/2023 0215	-65	79	-56	284	24	0.5

12/17/2023 0230	-62	82	-59	287	24	0.5
12/17/2023 0245	-59	84	-62	291	24	0.5
12/17/2023 0300	-55	87	-65	295	24	0.5
12/17/2023 0315	-52	89	-67	300	24	0.5
12/17/2023 0330	-49	91	-70	307	24	0.5
12/17/2023 0345	-46	93	-72	314	24	0.5
12/17/2023 0400	-43	94	-74	324	24	0.5
12/17/2023 0415	-39	96	-76	336	24	0.5
12/17/2023 0430	-36	98	-76	349	25	0.5
12/17/2023 0445	-33	99	-77	4	25	0.5
12/17/2023 0500	-30	101	-76	18	25	0.5
12/17/2023 0515	-27	102	-75	30	25	0.5
12/17/2023 0530	-24	104	-73	40	25	0.5
12/17/2023 0545	-20	106	-71	49	25	0.5
12/17/2023 0600	-17	107	-68	56	25	1.23
12/17/2023 0615	-14	109	-66	61	25	2.58
12/17/2023 0630	-11	111	-63	66	25	15.35
12/17/2023 0645	-8	112	-60	69	25	263.88
12/17/2023 0700	-5	114	-57	73	26	7444.45
12/17/2023 0715	-2	116	-54	76	26	135953.4
12/17/2023 0730	1	118	-51	78	26	1199450.89
12/17/2023 0745	3	120	-48	81	26	3224428.31
12/17/2023 0800	6	122	-45	83	26	6032483.04
12/17/2023 0815	9	124	-42	85	26	9305985.08
12/17/2023 0830	11	126	-39	87	26	12975327.27
12/17/2023 0845	14	129	-36	89	26	16897179.64
12/17/2023 0900	16	131	-33	91	26	20927505.88
12/17/2023 0915	19	134	-30	93	27	25019218.84
12/17/2023 0930	21	137	-26	94	27	29148525.27
12/17/2023 0945	23	140	-23	96	27	33242363.02
12/17/2023 1000	25	143	-20	98	27	37200583.49
12/17/2023 1015	27	146	-17	99	27	40944578.94
12/17/2023 1030	29	149	-14	101	27	44426164.72
12/17/2023 1045	30	153	-11	103	27	47606369.01
12/17/2023 1100	32	156	-8	104	27	50440656.37
12/17/2023 1115	33	160	-5	106	27	52882543.5
12/17/2023 1130	34	164	-2	108	27	54894189.08
12/17/2023 1145	35	168	1	110	28	56451883.25
12/17/2023 1200	35	172	4	112	28	57544288.8
12/17/2023 1215	36	177	7	114	28	58167477.12
12/17/2023 1230	36	181	10	116	28	58320615.51
12/17/2023 1245	35	185	13	118	28	58003643.14
12/17/2023 1300	35	189	15	120	28	57216748.99
12/17/2023 1315	34	193	18	122	28	55961477.64
12/17/2023 1330	34	197	21	125	28	54243765.52
12/17/2023 1345	33	201	23	127	28	52078759.41
12/17/2023 1400	31	205	26	130	29	49495208.05

12/17/2023 1415	30	209	28	133	29	46534995.1
12/17/2023 1430	28	212	30	136	29	43245105.86
12/17/2023 1445	26	215	32	139	29	39667719.34
12/17/2023 1500	24	219	34	143	29	35842419.95
12/17/2023 1515	22	222	36	146	29	31826285.63
12/17/2023 1530	20	224	38	150	29	27708946.63
12/17/2023 1545	18	227	40	154	29	23587379.82
12/17/2023 1600	16	230	41	159	29	19515645.65
12/17/2023 1615	13	232	42	163	30	15513202.37
12/17/2023 1630	11	234	43	168	30	11659137.19
12/17/2023 1645	8	237	43	173	30	8116984.97
12/17/2023 1700	5	239	44	178	30	4995088.3
12/17/2023 1715	3	241	44	182	30	2400981.59
12/17/2023 1730	0	243	44	187	30	767655.75
12/17/2023 1745	-3	245	43	192	30	54433.6
12/17/2023 1800	-6	246	42	197	30	2341.69
12/17/2023 1815	-9	248	41	202	30	95.46
12/17/2023 1830	-12	250	40	206	31	13.82
12/17/2023 1845	-15	252	39	210	31	8.15
12/17/2023 1900	-18	253	37	214	31	7.21
12/17/2023 1915	-21	255	35	218	31	6.28
12/17/2023 1930	-25	256	33	222	31	5.92
12/17/2023 1945	-28	258	31	225	31	5.52
12/17/2023 2000	-31	260	29	228	31	5.09
12/17/2023 2015	-34	261	27	231	31	4.63
12/17/2023 2030	-37	263	24	234	31	4.16
12/17/2023 2045	-40	265	22	237	32	3.67
12/17/2023 2100	-44	266	19	239	32	3.19
12/17/2023 2115	-47	268	17	242	32	2.72
12/17/2023 2130	-50	270	14	244	32	2.26
12/17/2023 2145	-53	272	11	246	32	1.82
12/17/2023 2200	-56	274	8	248	32	1.41
12/17/2023 2215	-60	276	5	251	32	1.06
12/17/2023 2230	-63	279	3	253	32	0.76
12/17/2023 2245	-66	282	0	254	32	0.58
12/17/2023 2300	-69	286	-4	256	33	0.51
12/17/2023 2315	-72	291	-7	258	33	0.5
12/17/2023 2330	-75	297	-10	260	33	0.5
12/17/2023 2345	-78	306	-13	262	33	0.5
12/18/2023 0000	-80	320	-16	264	33	0.5
12/18/2023 0015	-82	339	-19	266	33	0.5
12/18/2023 0030	-82	4	-22	267	33	0.5
12/18/2023 0045	-81	28	-25	269	33	0.5
12/18/2023 0100	-79	45	-28	271	33	0.5
12/18/2023 0115	-77	57	-31	273	34	0.5
12/18/2023 0130	-74	65	-34	275	34	0.5
12/18/2023 0145	-71	71	-37	278	34	0.5

12/18/2023 0200	-68	75	-40	280	34	0.5
12/18/2023 0215	-65	79	-43	282	34	0.5
12/18/2023 0230	-62	82	-46	285	34	0.5
12/18/2023 0245	-59	84	-49	288	34	0.5
12/18/2023 0300	-55	87	-52	291	34	0.5
12/18/2023 0315	-52	89	-54	295	34	0.5
12/18/2023 0330	-49	91	-57	299	35	0.5
12/18/2023 0345	-46	93	-60	303	35	0.5
12/18/2023 0400	-43	94	-62	308	35	0.5
12/18/2023 0415	-39	96	-64	314	35	0.5
12/18/2023 0430	-36	98	-66	321	35	0.5
12/18/2023 0445	-33	99	-68	329	35	0.5
12/18/2023 0500	-30	101	-69	338	35	0.5
12/18/2023 0515	-27	102	-70	348	35	0.5
12/18/2023 0530	-24	104	-71	358	35	0.5
12/18/2023 0545	-21	106	-70	9	36	0.5
12/18/2023 0600	-17	107	-70	18	36	1.22
12/18/2023 0615	-14	109	-68	28	36	2.46
12/18/2023 0630	-11	111	-67	36	36	14.05
12/18/2023 0645	-8	112	-65	43	36	233.25
12/18/2023 0700	-5	114	-62	49	36	6563.79
12/18/2023 0715	-3	116	-60	54	36	123507.46
12/18/2023 0730	1	118	-57	59	36	1143715.51
12/18/2023 0745	3	120	-55	63	37	3126089.8
12/18/2023 0800	6	122	-52	66	37	5911041.36
12/18/2023 0815	9	124	-49	69	37	9165881.02
12/18/2023 0830	11	126	-46	72	37	12819487.49
12/18/2023 0845	14	129	-43	75	37	16732195.55
12/18/2023 0900	16	131	-40	77	37	20756923.51
12/18/2023 0915	19	134	-37	80	37	24843265.79
12/18/2023 0930	21	137	-34	82	37	28968511.88
12/18/2023 0945	23	139	-31	84	37	33061874.46
12/18/2023 1000	25	142	-28	86	38	37023368.12
12/18/2023 1015	27	146	-25	88	38	40773000.37
12/18/2023 1030	29	149	-22	89	38	44261633.61
12/18/2023 1045	30	153	-18	91	38	47450389.52
12/18/2023 1100	32	156	-15	93	38	50295158.57
12/18/2023 1115	33	160	-12	95	38	52749494.99
12/18/2023 1130	34	164	-9	97	38	54775119.24
12/18/2023 1145	35	168	-6	98	38	56347716.68
12/18/2023 1200	35	172	-3	100	38	57455463.41
12/18/2023 1215	35	176	1	102	39	58094153.63
12/18/2023 1230	36	181	3	104	39	58262842.59
12/18/2023 1245	35	185	6	106	39	57961447.01
12/18/2023 1300	35	189	9	108	39	57190164.45
12/18/2023 1315	34	193	12	110	39	55950529.66
12/18/2023 1330	34	197	15	112	39	54248388.68

12/18/2023 1345	33	201	18	114	39	52098655.08
12/18/2023 1400	31	205	21	116	39	49529706.19
12/18/2023 1415	30	208	24	119	40	46583053.83
12/18/2023 1430	28	212	27	121	40	43305512.43
12/18/2023 1445	26	215	29	124	40	39739293.84
12/18/2023 1500	25	218	32	127	40	35923844.61
12/18/2023 1515	22	221	34	130	40	31915568.3
12/18/2023 1530	20	224	37	133	40	27803333.35
12/18/2023 1545	18	227	39	137	40	23684406.84
12/18/2023 1600	16	230	41	141	40	19614144.13
12/18/2023 1615	13	232	43	145	40	15611956.71
12/18/2023 1630	11	234	45	149	41	11754362.54
12/18/2023 1645	8	237	46	154	41	8203977.57
12/18/2023 1700	5	239	48	159	41	5071837.46
12/18/2023 1715	3	241	49	164	41	2460508.53
12/18/2023 1730	0	243	50	170	41	796336.41
12/18/2023 1745	-3	245	50	175	41	58762.9
12/18/2023 1800	-6	246	50	181	41	2578.1
12/18/2023 1815	-9	248	50	187	41	110.68
12/18/2023 1830	-12	250	50	192	42	21.75
12/18/2023 1845	-15	252	49	198	42	15.76
12/18/2023 1900	-18	253	48	203	42	14.79
12/18/2023 1915	-21	255	47	208	42	13.82
12/18/2023 1930	-25	256	45	213	42	13.4
12/18/2023 1945	-28	258	43	217	42	12.91
12/18/2023 2000	-31	260	41	221	42	12.37
12/18/2023 2015	-34	261	39	225	42	11.77
12/18/2023 2030	-37	263	37	229	42	11.09
12/18/2023 2045	-40	264	35	232	43	10.33
12/18/2023 2100	-44	266	32	236	43	9.49
12/18/2023 2115	-47	268	30	238	43	8.6
12/18/2023 2130	-50	270	27	241	43	7.69
12/18/2023 2145	-53	272	24	244	43	6.76
12/18/2023 2200	-56	274	21	246	43	5.83
12/18/2023 2215	-60	276	19	249	43	4.93
12/18/2023 2230	-63	279	16	251	43	4.06
12/18/2023 2245	-66	282	13	253	44	3.22
12/18/2023 2300	-69	286	10	255	44	2.44
12/18/2023 2315	-72	291	7	257	44	1.75
12/18/2023 2330	-75	297	4	259	44	1.17
12/18/2023 2345	-78	306	1	261	44	0.75
12/19/2023 0000	-80	319	-2	263	44	0.53
12/19/2023 0015	-82	338	-5	265	44	0.5
12/19/2023 0030	-82	3	-8	267	44	0.5
12/19/2023 0045	-81	27	-12	269	44	0.5
12/19/2023 0100	-80	45	-15	271	45	0.5
12/19/2023 0115	-77	56	-18	273	45	0.5

12/19/2023 0130	-74	65	-21	275	45	0.5
12/19/2023 0145	-71	70	-24	277	45	0.5
12/19/2023 0200	-68	75	-27	279	45	0.5
12/19/2023 0215	-65	79	-30	281	45	0.5
12/19/2023 0230	-62	82	-33	284	45	0.5
12/19/2023 0245	-59	84	-36	286	45	0.5
12/19/2023 0300	-56	87	-39	289	46	0.5
12/19/2023 0315	-52	89	-41	292	46	0.5
12/19/2023 0330	-49	91	-44	295	46	0.5
12/19/2023 0345	-46	93	-47	298	46	0.5
12/19/2023 0400	-43	94	-49	302	46	0.5
12/19/2023 0415	-40	96	-52	306	46	0.5
12/19/2023 0430	-36	98	-54	310	46	0.5
12/19/2023 0445	-33	99	-57	315	46	0.5
12/19/2023 0500	-30	101	-59	321	46	0.5
12/19/2023 0515	-27	102	-60	327	47	0.5
12/19/2023 0530	-24	104	-62	333	47	0.5
12/19/2023 0545	-21	106	-63	341	47	0.5
12/19/2023 0600	-18	107	-64	348	47	1.2
12/19/2023 0615	-15	109	-64	357	47	2.36
12/19/2023 0630	-11	111	-64	5	47	12.92
12/19/2023 0645	-8	112	-63	13	47	207.13
12/19/2023 0700	-6	114	-62	20	47	5807.6
12/19/2023 0715	-3	116	-61	27	48	112413.78
12/19/2023 0730	1	118	-60	34	48	1091808.09
12/19/2023 0745	3	120	-58	39	48	3032675.66
12/19/2023 0800	6	122	-56	45	48	5795209.31
12/19/2023 0815	9	124	-53	49	48	9032454.91
12/19/2023 0830	11	126	-51	54	48	12671203.23
12/19/2023 0845	14	129	-48	57	48	16575438.59
12/19/2023 0900	16	131	-46	61	48	20595345.35
12/19/2023 0915	19	134	-43	64	49	24677228.59
12/19/2023 0930	21	136	-40	67	49	28799270.04
12/19/2023 0945	23	139	-37	70	49	32892853.33
12/19/2023 1000	25	142	-34	72	49	36858212.1
12/19/2023 1015	27	146	-31	75	49	40614057.16
12/19/2023 1030	29	149	-28	77	49	44110312.32
12/19/2023 1045	30	152	-25	79	49	47308141.86
12/19/2023 1100	32	156	-22	81	49	50163808.55
12/19/2023 1115	33	160	-19	83	49	52630888.08
12/19/2023 1130	34	164	-16	85	50	54670683.17
12/19/2023 1145	35	168	-13	87	50	56258309.78
12/19/2023 1200	35	172	-9	89	50	57381488.57
12/19/2023 1215	35	176	-6	90	50	58035756.03
12/19/2023 1230	36	180	-3	92	50	58220064.18
12/19/2023 1245	35	185	0	94	50	57934308.06
12/19/2023 1300	35	189	3	96	50	57178686.29

12/19/2023 1315	34	193	6	98	50	55954705.28
12/19/2023 1330	34	197	9	100	51	54268089.98
12/19/2023 1345	33	201	13	101	51	52133483.65
12/19/2023 1400	31	205	16	103	51	49578865.29
12/19/2023 1415	30	208	19	106	51	46645379.48
12/19/2023 1430	28	212	22	108	51	43379711.03
12/19/2023 1445	26	215	25	110	51	39824152.83
12/19/2023 1500	25	218	28	112	51	36018015.67
12/19/2023 1515	23	221	31	115	51	32016965.48
12/19/2023 1530	20	224	33	118	51	27909047.39
12/19/2023 1545	18	227	36	120	52	23791865.26
12/19/2023 1600	16	229	39	124	52	19722214.52
12/19/2023 1615	13	232	42	127	52	15719511.39
12/19/2023 1630	11	234	44	131	52	11857523.99
12/19/2023 1645	8	236	46	135	52	8297797.42
12/19/2023 1700	5	239	49	139	52	5154290.06
12/19/2023 1715	3	241	51	144	52	2524660.49
12/19/2023 1730	0	243	52	149	52	827620.57
12/19/2023 1745	-3	245	54	154	53	63667.29
12/19/2023 1800	-6	246	55	160	53	2853.4
12/19/2023 1815	-9	248	56	167	53	129.97
12/19/2023 1830	-12	250	57	173	53	32.9
12/19/2023 1845	-15	251	57	180	53	26.86
12/19/2023 1900	-18	253	57	187	53	26.16
12/19/2023 1915	-21	255	57	193	53	25.43
12/19/2023 1930	-24	256	56	200	53	25.17
12/19/2023 1945	-28	258	55	206	53	24.76
12/19/2023 2000	-31	260	53	212	54	24.21
12/19/2023 2015	-34	261	51	217	54	23.51
12/19/2023 2030	-37	263	49	222	54	22.67
12/19/2023 2045	-40	264	47	226	54	21.7
12/19/2023 2100	-43	266	45	231	54	20.63
12/19/2023 2115	-47	268	43	234	54	19.52
12/19/2023 2130	-50	270	40	238	54	18.35
12/19/2023 2145	-53	272	37	241	54	17.09
12/19/2023 2200	-56	274	35	244	55	15.7
12/19/2023 2215	-59	276	32	247	55	14.2
12/19/2023 2230	-63	279	29	250	55	12.66
12/19/2023 2245	-66	282	26	252	55	11.1
12/19/2023 2300	-69	286	23	254	55	9.55
12/19/2023 2315	-72	291	20	257	55	8.03
12/19/2023 2330	-75	297	17	259	55	6.59
12/19/2023 2345	-78	306	14	261	55	5.22
12/20/2023 0000	-80	319	11	263	55	3.93
12/20/2023 0015	-82	338	8	265	56	2.79
12/20/2023 0030	-82	2	5	267	56	1.81
12/20/2023 0045	-82	26	2	269	56	1.05

12/20/2023 0100	-80	44	-1	271	56	0.59
12/20/2023 0115	-77	56	-4	273	56	0.51
12/20/2023 0130	-74	64	-8	275	56	0.5
12/20/2023 0145	-71	70	-11	277	56	0.5
12/20/2023 0200	-68	75	-14	279	56	0.5
12/20/2023 0215	-65	79	-17	281	57	0.5
12/20/2023 0230	-62	82	-20	283	57	0.5
12/20/2023 0245	-59	84	-23	285	57	0.5
12/20/2023 0300	-56	87	-26	287	57	0.5
12/20/2023 0315	-52	89	-28	290	57	0.5
12/20/2023 0330	-49	91	-31	292	57	0.5
12/20/2023 0345	-46	93	-34	295	57	0.5
12/20/2023 0400	-43	94	-37	298	57	0.5
12/20/2023 0415	-40	96	-39	301	57	0.5
12/20/2023 0430	-36	98	-42	304	58	0.5
12/20/2023 0445	-33	99	-44	308	58	0.5
12/20/2023 0500	-30	101	-47	312	58	0.5
12/20/2023 0515	-27	102	-49	316	58	0.5
12/20/2023 0530	-24	104	-51	321	58	0.5
12/20/2023 0545	-21	106	-53	326	58	0.5
12/20/2023 0600	-18	107	-54	331	58	1.19
12/20/2023 0615	-15	109	-55	337	58	2.27
12/20/2023 0630	-12	111	-56	343	58	11.92
12/20/2023 0645	-9	112	-57	350	59	184.81
12/20/2023 0700	-6	114	-57	356	59	5157.66
12/20/2023 0715	-3	116	-57	3	59	102535.65
12/20/2023 0730	1	118	-57	9	59	1043558.52
12/20/2023 0745	3	120	-56	16	59	2944161.33
12/20/2023 0800	6	122	-55	22	59	5685000.98
12/20/2023 0815	9	124	-54	27	59	8905729.88
12/20/2023 0830	11	126	-52	33	59	12530535.72
12/20/2023 0845	14	129	-50	38	60	16426995.46
12/20/2023 0900	16	131	-48	42	60	20442853.86
12/20/2023 0915	18	134	-46	46	60	24521183.35
12/20/2023 0930	21	136	-44	50	60	28640885.85
12/20/2023 0945	23	139	-41	54	60	32735402.12
12/20/2023 1000	25	142	-39	57	60	36705224.61
12/20/2023 1015	27	145	-36	60	60	40467852.97
12/20/2023 1030	29	149	-33	63	60	43972295.81
12/20/2023 1045	30	152	-30	65	60	47179717.09
12/20/2023 1100	32	156	-28	68	61	50046698.7
12/20/2023 1115	33	160	-25	70	61	52526817.21
12/20/2023 1130	34	164	-22	72	61	54580973.57
12/20/2023 1145	35	168	-19	75	61	56183747.86
12/20/2023 1200	35	172	-16	77	61	57322437.27
12/20/2023 1215	35	176	-13	79	61	57992342.04
12/20/2023 1230	36	180	-9	81	61	58192321.38

12/20/2023 1245	35	185	-6	82	61	57922249.84
12/20/2023 1300	35	189	-3	84	61	57182320.02
12/20/2023 1315	34	193	0	86	62	55973992.98
12/20/2023 1330	34	197	3	88	62	54302843.6
12/20/2023 1345	33	201	6	90	62	52183208.77
12/20/2023 1400	31	205	9	92	62	49642641.87
12/20/2023 1415	30	208	13	93	62	46721922.4
12/20/2023 1430	28	212	16	95	62	43467644.06
12/20/2023 1445	27	215	19	97	62	39922229.69
12/20/2023 1500	25	218	22	99	62	36124861.82
12/20/2023 1515	23	221	25	101	62	32130409.94
12/20/2023 1530	20	224	28	103	63	28026029.76
12/20/2023 1545	18	227	31	106	63	23909697.09
12/20/2023 1600	16	229	34	108	63	19839791.52
12/20/2023 1615	13	232	37	111	63	15835804.36
12/20/2023 1630	11	234	40	113	63	11968585.41
12/20/2023 1645	8	236	43	116	63	8398431.18
12/20/2023 1700	5	239	46	120	63	5242440.58
12/20/2023 1715	3	241	49	123	63	2593501.94
12/20/2023 1730	0	243	51	127	63	861655.73
12/20/2023 1745	-3	244	54	132	64	69215.19
12/20/2023 1800	-6	246	56	137	64	3172.15
12/20/2023 1815	-9	248	58	142	64	152.08
12/20/2023 1830	-12	250	60	148	64	45.87
12/20/2023 1845	-15	251	62	155	64	40.02
12/20/2023 1900	-18	253	63	163	64	39.85
12/20/2023 1915	-21	255	64	171	64	39.65
12/20/2023 1930	-24	256	64	179	64	39.91
12/20/2023 1945	-27	258	64	187	64	40.01
12/20/2023 2000	-31	259	63	195	65	39.94
12/20/2023 2015	-34	261	62	203	65	39.68
12/20/2023 2030	-37	263	61	210	65	39.19
12/20/2023 2045	-40	264	59	217	65	38.44
12/20/2023 2100	-43	266	57	223	65	37.43
12/20/2023 2115	-47	268	55	228	65	36.19
12/20/2023 2130	-50	270	53	233	65	34.77
12/20/2023 2145	-53	272	50	237	65	33.16
12/20/2023 2200	-56	274	48	241	65	31.38
12/20/2023 2215	-59	276	45	244	66	29.49
12/20/2023 2230	-63	279	42	248	66	27.6
12/20/2023 2245	-66	282	39	251	66	25.65
12/20/2023 2300	-69	286	36	253	66	23.57
12/20/2023 2315	-72	290	33	256	66	21.31
12/20/2023 2330	-75	297	30	258	66	18.96
12/20/2023 2345	-78	305	27	260	66	16.6
12/21/2023 0000	-80	318	24	263	66	14.27
12/21/2023 0015	-82	337	21	265	66	11.99

12/21/2023 0030	-82	1	18	267	67	9.82
12/21/2023 0045	-82	26	15	269	67	7.78
12/21/2023 0100	-80	44	12	271	67	5.88
12/21/2023 0115	-77	56	9	273	67	4.17
12/21/2023 0130	-74	64	6	274	67	2.7
12/21/2023 0145	-72	70	3	276	67	1.52
12/21/2023 0200	-68	75	0	278	67	0.8
12/21/2023 0215	-65	78	-4	280	67	0.52
12/21/2023 0230	-62	82	-7	282	67	0.5
12/21/2023 0245	-59	84	-10	284	68	0.5
12/21/2023 0300	-56	87	-13	286	68	0.5
12/21/2023 0315	-53	89	-15	288	68	0.5
12/21/2023 0330	-49	91	-18	291	68	0.5
12/21/2023 0345	-46	92	-21	293	68	0.5
12/21/2023 0400	-43	94	-24	295	68	0.5
12/21/2023 0415	-40	96	-27	298	68	0.5
12/21/2023 0430	-37	98	-29	301	68	0.5
12/21/2023 0445	-33	99	-32	304	68	0.5
12/21/2023 0500	-30	101	-34	307	69	0.5
12/21/2023 0515	-27	102	-37	310	69	0.5
12/21/2023 0530	-24	104	-39	313	69	0.5
12/21/2023 0545	-21	106	-41	317	69	0.5
12/21/2023 0600	-18	107	-43	321	69	1.18
12/21/2023 0615	-15	109	-45	325	69	2.18
12/21/2023 0630	-12	110	-46	330	69	11.05
12/21/2023 0645	-9	112	-48	335	69	165.68
12/21/2023 0700	-6	114	-49	340	69	4598.46
12/21/2023 0715	-3	116	-50	345	70	93747.98
12/21/2023 0730	1	118	-50	351	70	998794.45
12/21/2023 0745	3	120	-51	356	70	2860511.72
12/21/2023 0800	6	122	-51	2	70	5580425.15
12/21/2023 0815	8	124	-50	7	70	8785722.11
12/21/2023 0830	11	126	-50	13	70	12397536.18
12/21/2023 0845	14	128	-49	18	70	16286943.13
12/21/2023 0900	16	131	-48	23	70	20299522.98
12/21/2023 0915	18	134	-46	28	70	24375196.91
12/21/2023 0930	21	136	-45	32	70	28493434.14
12/21/2023 0945	23	139	-43	37	71	32589610.75
12/21/2023 1000	25	142	-41	41	71	36564502.12
12/21/2023 1015	27	145	-39	44	71	40334479.22
12/21/2023 1030	28	149	-37	48	71	43847666.9
12/21/2023 1045	30	152	-34	51	71	47065193.38
12/21/2023 1100	31	156	-32	54	71	49943907.3
12/21/2023 1115	33	160	-29	57	71	52437361.42
12/21/2023 1130	34	164	-27	59	71	54506066.75
12/21/2023 1145	34	168	-24	62	71	56124099.39
12/21/2023 1200	35	172	-21	64	72	57278365.62

12/21/2023 1215	35	176	-18	67	72	57963952.37
12/21/2023 1230	36	180	-15	69	72	58179637.83
12/21/2023 1245	35	184	-12	71	72	57925278.82
12/21/2023 1300	35	189	-9	73	72	57201056.1
12/21/2023 1315	34	193	-6	75	72	56008368.71
12/21/2023 1330	34	197	-3	77	72	54352613.33
12/21/2023 1345	33	201	0	78	72	52247785.72
12/21/2023 1400	31	204	3	80	72	49720985.92
12/21/2023 1415	30	208	6	82	72	46812627.68
12/21/2023 1430	28	212	9	84	73	43569249.4
12/21/2023 1445	27	215	12	85	73	40033453.75
12/21/2023 1500	25	218	15	87	73	36244308.21
12/21/2023 1515	23	221	19	89	73	32255832.03
12/21/2023 1530	20	224	22	91	73	28154220.76
12/21/2023 1545	18	227	25	93	73	24037844.68
12/21/2023 1600	16	229	28	95	73	19966809.63
12/21/2023 1615	13	232	31	97	73	15960772.42
12/21/2023 1630	11	234	34	99	73	12087510.64
12/21/2023 1645	8	236	37	101	73	8505867.99
12/21/2023 1700	6	238	41	103	74	5336285.13
12/21/2023 1715	3	241	44	106	74	2667096.09
12/21/2023 1730	0	242	47	108	74	898599.69
12/21/2023 1745	-3	244	50	111	74	75483.29
12/21/2023 1800	-6	246	53	115	74	3539.38
12/21/2023 1815	-9	248	55	119	74	175.11
12/21/2023 1830	-12	250	58	123	74	58.61
12/21/2023 1845	-15	251	61	128	74	53.39
12/21/2023 1900	-18	253	63	133	74	54.13
12/21/2023 1915	-21	255	65	140	74	54.72
12/21/2023 1930	-24	256	67	148	75	55.82
12/21/2023 1945	-27	258	69	156	75	56.84
12/21/2023 2000	-30	259	70	166	75	57.66
12/21/2023 2015	-34	261	71	177	75	58.15
12/21/2023 2030	-37	263	70	188	75	58.29
12/21/2023 2045	-40	264	70	198	75	58.07
12/21/2023 2100	-43	266	69	208	75	57.54
12/21/2023 2115	-46	268	67	216	75	56.83
12/21/2023 2130	-50	270	65	224	75	56.02
12/21/2023 2145	-53	272	63	230	75	55.03
12/21/2023 2200	-56	274	60	236	76	53.62
12/21/2023 2215	-59	276	58	240	76	51.74
12/21/2023 2230	-62	279	55	245	76	49.53
12/21/2023 2245	-66	282	52	248	76	47.12
12/21/2023 2300	-69	286	49	251	76	44.47
12/21/2023 2315	-72	290	46	254	76	41.66
12/21/2023 2330	-75	296	43	257	76	38.82
12/21/2023 2345	-78	305	40	260	76	36.01

12/22/2023 0000	-80	317	37	262	76	33.07
12/22/2023 0015	-82	336	34	264	76	29.91
12/22/2023 0030	-82	1	31	266	77	26.6
12/22/2023 0045	-82	25	28	268	77	23.29
12/22/2023 0100	-80	43	25	270	77	20.03
12/22/2023 0115	-77	56	22	272	77	16.85
12/22/2023 0130	-75	64	19	274	77	13.83
12/22/2023 0145	-72	70	15	276	77	11.01
12/22/2023 0200	-69	75	12	278	77	8.38
12/22/2023 0215	-65	78	9	280	77	6
12/22/2023 0230	-62	81	6	281	77	3.95
12/22/2023 0245	-59	84	3	283	77	2.26
12/22/2023 0300	-56	86	1	285	78	1.11
12/22/2023 0315	-53	89	-3	287	78	0.56
12/22/2023 0330	-49	91	-6	289	78	0.5
12/22/2023 0345	-46	92	-9	291	78	0.5
12/22/2023 0400	-43	94	-11	293	78	0.5
12/22/2023 0415	-40	96	-14	295	78	0.5
12/22/2023 0430	-37	97	-17	298	78	0.5
12/22/2023 0445	-34	99	-20	300	78	0.5
12/22/2023 0500	-30	101	-22	303	78	0.5
12/22/2023 0515	-27	102	-25	305	78	0.5
12/22/2023 0530	-24	104	-27	308	78	0.5
12/22/2023 0545	-21	105	-29	311	79	0.5
12/22/2023 0600	-18	107	-32	314	79	1.17
12/22/2023 0615	-15	109	-34	317	79	2.11
12/22/2023 0630	-12	110	-36	321	79	10.28
12/22/2023 0645	-9	112	-38	325	79	149.25
12/22/2023 0700	-6	114	-39	328	79	4116.79
12/22/2023 0715	-3	116	-41	333	79	85937.03
12/22/2023 0730	0	118	-42	337	79	957343.85
12/22/2023 0745	3	120	-43	341	79	2781682.39
12/22/2023 0800	6	122	-44	346	79	5481485.87
12/22/2023 0815	8	124	-44	351	79	8672441.9
12/22/2023 0830	11	126	-45	356	80	12272246.96
12/22/2023 0845	13	128	-45	0	80	16155349.72
12/22/2023 0900	16	131	-44	5	80	20165418.83
12/22/2023 0915	18	133	-44	10	80	24239327.82
12/22/2023 0930	21	136	-43	15	80	28356979.63
12/22/2023 0945	23	139	-42	19	80	32455557.59
12/22/2023 1000	25	142	-41	24	80	36436129.36
12/22/2023 1015	27	145	-40	28	80	40214015.97
12/22/2023 1030	28	149	-38	32	80	43736497.08
12/22/2023 1045	30	152	-36	36	80	46964637.03
12/22/2023 1100	31	156	-35	39	80	49855499.62
12/22/2023 1115	33	160	-32	42	81	52362585.47
12/22/2023 1130	34	163	-30	46	81	54446023.68

12/22/2023 1145	34	168	-28	49	81	56079416.8
12/22/2023 1200	35	172	-26	51	81	57249313.44
12/22/2023 1215	35	176	-23	54	81	57950611.62
12/22/2023 1230	36	180	-21	56	81	58182021.66
12/22/2023 1245	35	184	-18	59	81	57943386.27
12/22/2023 1300	35	188	-15	61	81	57234869.5
12/22/2023 1315	34	193	-12	63	81	56057793.77
12/22/2023 1330	34	197	-10	65	81	54417351.33
12/22/2023 1345	33	201	-7	67	81	52327161.67
12/22/2023 1400	31	204	-4	69	82	49813841.84
12/22/2023 1415	30	208	-1	71	82	46917436.11
12/22/2023 1430	28	211	2	73	82	43684461.32
12/22/2023 1445	27	215	5	75	82	40157750.72
12/22/2023 1500	25	218	8	76	82	36376276.68
12/22/2023 1515	23	221	11	78	82	32393160.04
12/22/2023 1530	21	224	14	80	82	28293560.27
12/22/2023 1545	18	227	18	81	82	24176251.17
12/22/2023 1600	16	229	21	83	82	20103204.15
12/22/2023 1615	13	232	24	85	82	16094352.24
12/22/2023 1630	11	234	27	86	82	12214263.32
12/22/2023 1645	8	236	30	88	83	8620098.41
12/22/2023 1700	6	238	33	90	83	5435820.88
12/22/2023 1715	3	240	36	92	83	2745504.61
12/22/2023 1730	0	242	39	94	83	938620.49
12/22/2023 1745	-3	244	43	96	83	82558.19
12/22/2023 1800	-6	246	46	98	83	3961.29
12/22/2023 1815	-9	248	49	100	83	196.99
12/22/2023 1830	-12	250	52	103	83	68.59
12/22/2023 1845	-15	251	55	106	83	64.38
12/22/2023 1900	-18	253	58	109	83	66.92
12/22/2023 1915	-21	255	61	113	83	69.3
12/22/2023 1930	-24	256	64	117	83	71.65
12/22/2023 1945	-27	258	67	122	84	73.62
12/22/2023 2000	-30	259	69	128	84	75.74
12/22/2023 2015	-34	261	72	136	84	77.82
12/22/2023 2030	-37	263	74	146	84	79.24
12/22/2023 2045	-40	264	75	158	84	80
12/22/2023 2100	-43	266	76	172	84	80.45
12/22/2023 2115	-46	268	76	186	84	80.7
12/22/2023 2130	-50	269	76	201	84	80.76
12/22/2023 2145	-53	271	74	213	84	80.57
12/22/2023 2200	-56	274	72	223	84	79.8
12/22/2023 2215	-59	276	70	232	84	78.26
12/22/2023 2230	-62	279	68	238	84	76.48
12/22/2023 2245	-65	282	65	244	85	74.87
12/22/2023 2300	-69	285	62	248	85	73.03
12/22/2023 2315	-72	290	59	252	85	70.48

12/22/2023 2330	-75	296	56	256	85	67.36
12/22/2023 2345	-77	305	53	258	85	63.95
12/23/2023 0000	-80	317	50	261	85	60.29
12/23/2023 0015	-82	335	47	264	85	56.38
12/23/2023 0030	-82	360	44	266	85	52.45
12/23/2023 0045	-82	24	41	268	85	48.6
12/23/2023 0100	-80	43	38	270	85	44.64
12/23/2023 0115	-77	55	34	272	85	40.41
12/23/2023 0130	-75	64	31	274	85	35.98
12/23/2023 0145	-72	70	28	275	85	31.56
12/23/2023 0200	-69	75	25	277	86	27.21
12/23/2023 0215	-66	78	22	279	86	22.98
12/23/2023 0230	-62	81	19	281	86	18.95
12/23/2023 0245	-59	84	16	282	86	15.21
12/23/2023 0300	-56	86	13	284	86	11.72
12/23/2023 0315	-53	89	10	286	86	8.52
12/23/2023 0330	-50	90	7	287	86	5.75
12/23/2023 0345	-46	92	4	289	86	3.43
12/23/2023 0400	-43	94	2	291	86	1.69
12/23/2023 0415	-40	96	-2	293	86	0.69
12/23/2023 0430	-37	97	-4	295	86	0.51
12/23/2023 0445	-34	99	-7	297	86	0.5
12/23/2023 0500	-30	101	-10	299	86	0.5
12/23/2023 0515	-27	102	-13	301	87	0.5
12/23/2023 0530	-24	104	-15	304	87	0.5
12/23/2023 0545	-21	105	-18	306	87	0.5
12/23/2023 0600	-18	107	-20	309	87	1.16
12/23/2023 0615	-15	109	-22	311	87	2.04
12/23/2023 0630	-12	110	-25	314	87	9.6
12/23/2023 0645	-9	112	-27	317	87	135.1
12/23/2023 0700	-6	114	-29	320	87	3701.4
12/23/2023 0715	-3	116	-31	323	87	78999.9
12/23/2023 0730	0	118	-32	327	87	919037.5
12/23/2023 0745	3	120	-34	330	87	2707621.16
12/23/2023 0800	6	122	-35	334	87	5388183.54
12/23/2023 0815	8	124	-37	338	87	8565895.21
12/23/2023 0830	11	126	-38	342	88	12154703.13
12/23/2023 0845	13	128	-38	346	88	16032275.8
12/23/2023 0900	16	131	-39	350	88	20040601.03
12/23/2023 0915	18	133	-39	354	88	24113627.88
12/23/2023 0930	21	136	-39	359	88	28231578.81
12/23/2023 0945	23	139	-39	3	88	32333311.35
12/23/2023 1000	25	142	-39	7	88	36320180.99
12/23/2023 1015	27	145	-38	12	88	40106533.49
12/23/2023 1030	28	148	-38	16	88	43638848.3
12/23/2023 1045	30	152	-37	20	88	46878104.31
12/23/2023 1100	31	156	-35	24	88	49781529.87

12/23/2023 1115	33	159	-34	28	88	52302541.79
12/23/2023 1130	34	163	-33	31	88	54400891.83
12/23/2023 1145	34	167	-31	34	88	56049738.23
12/23/2023 1200	35	171	-29	38	89	57235305.86
12/23/2023 1215	35	176	-27	41	89	57952329.67
12/23/2023 1230	36	180	-25	44	89	58199466.58
12/23/2023 1245	35	184	-23	46	89	57976549.82
12/23/2023 1300	35	188	-20	49	89	57283722.82
12/23/2023 1315	34	192	-18	52	89	56122217.94
12/23/2023 1330	34	196	-16	54	89	54496998.1
12/23/2023 1345	33	200	-13	56	89	52421273.15
12/23/2023 1400	31	204	-10	58	89	49921146.62
12/23/2023 1415	30	208	-8	60	89	47036285.3
12/23/2023 1430	28	211	-5	62	89	43813212.4
12/23/2023 1445	27	215	-2	64	89	40295044.7
12/23/2023 1500	25	218	1	66	89	36520687.31
12/23/2023 1515	23	221	4	68	89	32542320.89
12/23/2023 1530	21	224	7	70	90	28443988.25
12/23/2023 1545	18	227	10	71	90	24324861.25
12/23/2023 1600	16	229	13	73	90	20248911.88
12/23/2023 1615	14	232	16	74	90	16236481.01
12/23/2023 1630	11	234	19	76	90	12348808.34
12/23/2023 1645	8	236	22	78	90	8741116.44
12/23/2023 1700	6	238	25	79	90	5541046.59
12/23/2023 1715	3	240	28	81	90	2828785.09
12/23/2023 1730	0	242	31	82	90	981893.59
12/23/2023 1745	-3	244	34	84	90	90537.85
12/23/2023 1800	-6	246	37	85	90	4447.11
12/23/2023 1815	-9	248	40	87	90	216.68
12/23/2023 1830	-12	250	43	89	90	73.84
12/23/2023 1845	-15	251	47	91	90	70.54
12/23/2023 1900	-18	253	50	92	90	74.91
12/23/2023 1915	-21	255	53	94	91	79.37
12/23/2023 1930	-24	256	56	97	91	84.25
12/23/2023 1945	-27	258	59	99	91	88.85
12/23/2023 2000	-30	259	62	102	91	92.73
12/23/2023 2015	-33	261	65	105	91	95.74
12/23/2023 2030	-37	263	68	109	91	98.68
12/23/2023 2045	-40	264	71	114	91	102.02
12/23/2023 2100	-43	266	74	121	91	104.55
12/23/2023 2115	-46	268	77	129	91	105.83
12/23/2023 2130	-49	269	79	141	91	107.36
12/23/2023 2145	-53	271	81	158	91	109.1
12/23/2023 2200	-56	274	81	180	91	109.95
12/23/2023 2215	-59	276	81	201	91	109.83
12/23/2023 2230	-62	279	79	219	91	108.75
12/23/2023 2245	-65	282	77	231	91	107.75

12/23/2023 2300	-69	285	74	240	91	107.11
12/23/2023 2315	-72	290	72	247	92	105.3
12/23/2023 2330	-75	296	69	252	92	102.47
12/23/2023 2345	-77	304	66	256	92	99.94
12/24/2023 0000	-80	317	63	259	92	97.45
12/24/2023 0015	-82	335	60	262	92	94.08
12/24/2023 0030	-82	359	56	265	92	89.85
12/24/2023 0045	-82	24	53	267	92	85.24
12/24/2023 0100	-80	42	50	269	92	80.32
12/24/2023 0115	-78	55	47	271	92	75.1
12/24/2023 0130	-75	63	44	273	92	69.85
12/24/2023 0145	-72	70	41	274	92	64.73
12/24/2023 0200	-69	74	38	276	92	59.52
12/24/2023 0215	-66	78	35	278	92	53.97
12/24/2023 0230	-62	81	32	279	92	48.17
12/24/2023 0245	-59	84	29	281	92	42.36
12/24/2023 0300	-56	86	26	283	92	36.67
12/24/2023 0315	-53	88	22	284	92	31.12
12/24/2023 0330	-50	90	20	286	93	25.84
12/24/2023 0345	-46	92	17	287	93	20.92
12/24/2023 0400	-43	94	14	289	93	16.33
12/24/2023 0415	-40	96	11	291	93	12.11
12/24/2023 0430	-37	97	8	292	93	8.39
12/24/2023 0445	-34	99	5	294	93	5.25
12/24/2023 0500	-31	101	2	296	93	2.75
12/24/2023 0515	-27	102	0	298	93	1.24
12/24/2023 0530	-24	104	-3	300	93	0.56
12/24/2023 0545	-21	105	-6	302	93	0.5
12/24/2023 0600	-18	107	-9	304	93	1.15
12/24/2023 0615	-15	109	-11	306	93	1.98
12/24/2023 0630	-12	110	-13	308	93	9.01
12/24/2023 0645	-9	112	-16	310	93	122.9
12/24/2023 0700	-6	114	-18	313	93	3342.78
12/24/2023 0715	-3	116	-20	316	93	72843.92
12/24/2023 0730	0	117	-22	318	93	883711.17
12/24/2023 0745	3	119	-24	321	94	2638269.89
12/24/2023 0800	6	121	-26	324	94	5300516.01
12/24/2023 0815	8	124	-28	327	94	8466085.19
12/24/2023 0830	11	126	-29	331	94	12044934.37
12/24/2023 0845	13	128	-31	334	94	15917776.05
12/24/2023 0900	16	131	-32	338	94	19925124.35
12/24/2023 0915	18	133	-33	341	94	23998144.06
12/24/2023 0930	20	136	-34	345	94	28117282.01
12/24/2023 0945	23	139	-35	349	94	32222933.27
12/24/2023 1000	25	142	-35	353	94	36216723.71
12/24/2023 1015	27	145	-35	357	94	40012094.32
12/24/2023 1030	28	148	-35	1	94	43554774.97

12/24/2023 1045	30	152	-35	5	94	46805643.69
12/24/2023 1100	31	155	-35	9	94	49722043.52
12/24/2023 1115	33	159	-34	13	94	52257272.78
12/24/2023 1130	34	163	-33	16	94	54370707.46
12/24/2023 1145	34	167	-32	20	94	56035089.68
12/24/2023 1200	35	171	-31	24	94	57236355.38
12/24/2023 1215	35	176	-30	27	94	57969103.68
12/24/2023 1230	36	180	-28	30	94	58231953.77
12/24/2023 1245	35	184	-27	34	95	58024735
12/24/2023 1300	35	188	-25	37	95	57347567.39
12/24/2023 1315	35	192	-23	39	95	56201581.14
12/24/2023 1330	34	196	-21	42	95	54591486.45
12/24/2023 1345	33	200	-19	45	95	52530050.38
12/24/2023 1400	32	204	-17	47	95	50042830.61
12/24/2023 1415	30	208	-14	50	95	47169105.07
12/24/2023 1430	29	211	-12	52	95	43955429.73
12/24/2023 1445	27	215	-9	54	95	40445257.83
12/24/2023 1500	25	218	-7	56	95	36677460.32
12/24/2023 1515	23	221	-4	58	95	32703242.81
12/24/2023 1530	21	224	-1	60	95	28605446.81
12/24/2023 1545	18	226	2	62	95	24483622.49
12/24/2023 1600	16	229	4	64	95	20403871.96
12/24/2023 1615	14	232	7	65	95	16387096.8
12/24/2023 1630	11	234	10	67	95	12491111.5
12/24/2023 1645	8	236	13	68	95	8868919.67
12/24/2023 1700	6	238	16	70	95	5651964.92
12/24/2023 1715	3	240	18	72	95	2916993.99
12/24/2023 1730	1	242	21	73	95	1028602.13
12/24/2023 1745	-3	244	24	74	95	99530.28
12/24/2023 1800	-6	246	27	76	96	5005.83
12/24/2023 1815	-9	248	31	77	96	232.8
12/24/2023 1830	-12	250	34	79	96	73.92
12/24/2023 1845	-15	251	37	80	96	71.83
12/24/2023 1900	-18	253	40	82	96	77.72
12/24/2023 1915	-21	254	43	83	96	83.79
12/24/2023 1930	-24	256	46	85	96	90.75
12/24/2023 1945	-27	258	49	86	96	97.9
12/24/2023 2000	-30	259	52	88	96	104.85
12/24/2023 2015	-33	261	55	89	96	111.47
12/24/2023 2030	-37	262	59	91	96	117.78
12/24/2023 2045	-40	264	62	93	96	123.3
12/24/2023 2100	-43	266	65	96	96	127.58
12/24/2023 2115	-46	268	68	98	96	131.61
12/24/2023 2130	-49	269	71	101	96	136.31
12/24/2023 2145	-53	271	74	106	96	140.07
12/24/2023 2200	-56	273	77	111	96	142.01
12/24/2023 2215	-59	276	80	120	96	145.05

12/24/2023 2230	-62	278	83	134	96	147.89
12/24/2023 2245	-65	282	84	158	96	148.16
12/24/2023 2300	-68	285	85	193	96	148.56
12/24/2023 2315	-71	290	83	221	96	149.38
12/24/2023 2330	-74	296	81	238	96	148.36
12/24/2023 2345	-77	304	78	248	96	145.76
12/25/2023 0000	-80	316	75	254	97	144.67
12/25/2023 0015	-82	334	72	258	97	142.42
12/25/2023 0030	-82	358	69	262	97	138.45
12/25/2023 0045	-82	23	66	265	97	134.9
12/25/2023 0100	-80	42	63	267	97	131.52
12/25/2023 0115	-78	54	60	269	97	126.95
12/25/2023 0130	-75	63	56	271	97	121.24
12/25/2023 0145	-72	69	53	273	97	115.04
12/25/2023 0200	-69	74	50	274	97	108.42
12/25/2023 0215	-66	78	47	276	97	101.42
12/25/2023 0230	-63	81	44	278	97	94.4
12/25/2023 0245	-59	84	41	279	97	87.56
12/25/2023 0300	-56	86	38	280	97	80.62
12/25/2023 0315	-53	88	35	282	97	73.23
12/25/2023 0330	-50	90	32	283	97	65.5
12/25/2023 0345	-47	92	29	285	97	57.76
12/25/2023 0400	-43	94	26	286	97	50.17
12/25/2023 0415	-40	96	23	288	97	42.77
12/25/2023 0430	-37	97	20	289	97	35.7
12/25/2023 0445	-34	99	17	291	97	29.1
12/25/2023 0500	-31	100	14	292	97	22.96
12/25/2023 0515	-27	102	11	294	97	17.27
12/25/2023 0530	-24	104	8	296	97	12.2
12/25/2023 0545	-21	105	6	297	97	7.88
12/25/2023 0600	-18	107	3	299	97	4.98
12/25/2023 0615	-15	109	1	301	97	3.37
12/25/2023 0630	-12	110	-2	303	97	8.66
12/25/2023 0645	-9	112	-5	305	98	112.36
12/25/2023 0700	-6	114	-7	307	98	3032.83
12/25/2023 0715	-3	116	-10	309	98	67386.08
12/25/2023 0730	0	117	-12	311	98	851207.65
12/25/2023 0745	3	119	-15	313	98	2573566.16
12/25/2023 0800	5	121	-17	316	98	5218479.72
12/25/2023 0815	8	124	-19	318	98	8373013.73
12/25/2023 0830	11	126	-21	321	98	11942966.65
12/25/2023 0845	13	128	-23	324	98	15811900.87
12/25/2023 0900	16	131	-24	327	98	19819040.14
12/25/2023 0915	18	133	-26	330	98	23892920.19
12/25/2023 0930	20	136	-27	333	98	28014135.41
12/25/2023 0945	23	139	-29	336	98	32124479.15
12/25/2023 1000	25	142	-30	340	98	36125818.17

12/25/2023 1015	27	145	-31	343	98	39930755.13
12/25/2023 1030	28	148	-32	347	98	43484325.95
12/25/2023 1045	30	152	-32	351	98	46747297.84
12/25/2023 1100	31	155	-32	354	98	49677079.46
12/25/2023 1115	33	159	-33	358	98	52226813.02
12/25/2023 1130	34	163	-33	2	98	54355497.67
12/25/2023 1145	34	167	-32	6	98	56035487
12/25/2023 1200	35	171	-32	9	98	57252463.71
12/25/2023 1215	35	175	-31	13	98	58000919.78
12/25/2023 1230	36	180	-31	17	98	58279453.5
12/25/2023 1245	35	184	-30	20	98	58087896.87
12/25/2023 1300	35	188	-28	24	98	57426344.74
12/25/2023 1315	35	192	-27	27	98	56295814.5
12/25/2023 1330	34	196	-26	30	98	54700741.83
12/25/2023 1345	33	200	-24	33	98	52653418.33
12/25/2023 1400	32	204	-22	36	98	50178821.62
12/25/2023 1415	30	208	-20	39	98	47315824.73
12/25/2023 1430	29	211	-18	41	98	44111038.01
12/25/2023 1445	27	214	-16	44	98	40608305.91
12/25/2023 1500	25	218	-14	46	98	36846508.56
12/25/2023 1515	23	221	-12	49	98	32875849.81
12/25/2023 1530	21	224	-9	51	99	28777879.98
12/25/2023 1545	19	226	-7	53	99	24652488.28
12/25/2023 1600	16	229	-5	55	99	20568029.86
12/25/2023 1615	14	231	-2	57	99	16546141.22
12/25/2023 1630	11	234	1	59	99	12641140.47
12/25/2023 1645	9	236	4	60	99	9003508.91
12/25/2023 1700	6	238	6	62	99	5768581.34
12/25/2023 1715	3	240	9	64	99	3010184.73
12/25/2023 1730	1	242	12	65	99	1078936.44
12/25/2023 1745	-3	244	15	67	99	109659.42
12/25/2023 1800	-6	246	17	68	99	5651.73
12/25/2023 1815	-9	248	20	70	99	244.3
12/25/2023 1830	-12	250	23	71	99	65.55
12/25/2023 1845	-15	251	26	73	99	64.75
12/25/2023 1900	-18	253	29	74	99	73.45
12/25/2023 1915	-21	254	32	75	99	82.88
12/25/2023 1930	-24	256	35	77	99	93.1
12/25/2023 1945	-27	258	38	78	99	102.97
12/25/2023 2000	-30	259	41	79	99	112.45
12/25/2023 2015	-33	261	44	81	99	122
12/25/2023 2030	-36	262	48	82	99	131.92
12/25/2023 2045	-40	264	51	83	99	141.88
12/25/2023 2100	-43	266	54	85	99	151.44
12/25/2023 2115	-46	268	57	86	99	160.61
12/25/2023 2130	-49	269	60	88	99	169.18
12/25/2023 2145	-52	271	63	90	99	176.22

12/25/2023 2200	-56	273	66	91	99	181.94
12/25/2023 2215	-59	276	69	94	99	188.24
12/25/2023 2230	-62	278	73	96	99	194.88
12/25/2023 2245	-65	281	76	100	99	198.86
12/25/2023 2300	-68	285	79	104	99	202.24
12/25/2023 2315	-71	290	82	112	99	207.71
12/25/2023 2330	-74	296	84	126	99	208.82
12/25/2023 2345	-77	304	86	160	99	211.17
12/26/2023 0000	-80	316	86	212	99	211.32
12/26/2023 0015	-81	333	84	239	99	211.5
12/26/2023 0030	-82	357	81	251	99	210.71
12/26/2023 0045	-82	22	78	258	99	206.79
12/26/2023 0100	-80	41	75	262	99	205.29
12/26/2023 0115	-78	54	72	265	99	201.91
12/26/2023 0130	-75	63	69	267	99	196.29
12/26/2023 0145	-72	69	66	269	99	191.42
12/26/2023 0200	-69	74	62	271	99	186.61
12/26/2023 0215	-66	78	59	273	99	180.01
12/26/2023 0230	-63	81	56	275	99	171.88
12/26/2023 0245	-60	84	53	276	99	163.1
12/26/2023 0300	-56	86	50	277	99	153.74
12/26/2023 0315	-53	88	47	279	99	143.84
12/26/2023 0330	-50	90	44	280	99	133.96
12/26/2023 0345	-47	92	41	281	99	124.33
12/26/2023 0400	-43	94	38	283	99	114.49
12/26/2023 0415	-40	96	35	284	99	104
12/26/2023 0430	-37	97	32	285	99	93.04
12/26/2023 0445	-34	99	29	287	99	82.1
12/26/2023 0500	-31	100	26	288	100	71.35
12/26/2023 0515	-28	102	23	290	100	60.87
12/26/2023 0530	-24	104	20	291	100	50.85
12/26/2023 0545	-21	105	17	293	100	41.5
12/26/2023 0600	-18	107	14	294	100	33.41
12/26/2023 0615	-15	108	11	296	100	26.07
12/26/2023 0630	-12	110	9	297	100	24.99
12/26/2023 0645	-9	112	6	299	100	114.02
12/26/2023 0700	-6	114	3	301	100	2770.43
12/26/2023 0715	-3	115	1	302	100	62554.51
12/26/2023 0730	0	117	-2	304	100	821378.55
12/26/2023 0745	3	119	-5	306	100	2513444.98
12/26/2023 0800	5	121	-7	308	100	5142070.6
12/26/2023 0815	8	123	-10	310	100	8286682.65
12/26/2023 0830	11	126	-12	313	100	11848823.73
12/26/2023 0845	13	128	-14	315	100	15714697.62
12/26/2023 0900	16	130	-16	317	100	19722397.54
12/26/2023 0915	18	133	-18	320	100	23797998.26
12/26/2023 0930	20	136	-20	323	100	27922182.58

12/26/2023 0945	23	139	-22	325	100	32038000.93
12/26/2023 1000	25	142	-24	328	100	36047520.52
12/26/2023 1015	27	145	-25	331	100	39862568.14
12/26/2023 1030	28	148	-27	334	100	43427545.92
12/26/2023 1045	30	152	-28	338	100	46703105.21
12/26/2023 1100	31	155	-29	341	100	49646671.47
12/26/2023 1115	33	159	-30	345	100	52211190.72
12/26/2023 1130	34	163	-31	348	100	54355281.84
12/26/2023 1145	34	167	-31	352	100	56050937.17
12/26/2023 1200	35	171	-31	355	100	57283623
12/26/2023 1215	35	175	-32	359	100	58047754.25
12/26/2023 1230	36	179	-32	3	100	58341926.23
12/26/2023 1245	36	184	-31	6	100	58165980.97
12/26/2023 1300	35	188	-31	10	100	57519987.42
12/26/2023 1315	35	192	-30	14	100	56404841.06
12/26/2023 1330	34	196	-29	17	100	54824682.82
12/26/2023 1345	33	200	-28	21	100	52791296.73
12/26/2023 1400	32	204	-27	24	100	50329044.06
12/26/2023 1415	30	208	-26	27	100	47476372.12
12/26/2023 1430	29	211	-24	30	100	44279962.65
12/26/2023 1445	27	214	-23	33	100	40784106.73
12/26/2023 1500	25	218	-21	36	100	37027744.88
12/26/2023 1515	23	221	-19	39	100	33060061.4
12/26/2023 1530	21	224	-17	41	100	28961223.08
12/26/2023 1545	19	226	-15	44	100	24831404.84
12/26/2023 1600	16	229	-13	46	100	20741328.12
12/26/2023 1615	14	231	-11	49	100	16713558.04
12/26/2023 1630	11	234	-8	51	100	12798868.39
12/26/2023 1645	9	236	-6	53	100	9144894.14
12/26/2023 1700	6	238	-3	55	100	5890908.96
12/26/2023 1715	3	240	-1	57	100	3108408.62
12/26/2023 1730	1	242	2	58	100	1133090.49
12/26/2023 1745	-3	244	5	60	100	121061.5
12/26/2023 1800	-5	246	7	62	100	6400.52
12/26/2023 1815	-8	248	10	64	100	249.94
12/26/2023 1830	-11	249	13	65	100	45.71
12/26/2023 1845	-14	251	16	67	100	44.03
12/26/2023 1900	-17	253	18	68	100	53.21
12/26/2023 1915	-21	254	21	70	100	63.72
12/26/2023 1930	-24	256	24	71	100	75.67
12/26/2023 1945	-27	258	27	72	100	88.06
12/26/2023 2000	-30	259	30	74	100	100.77
12/26/2023 2015	-33	261	33	75	100	113.68
12/26/2023 2030	-36	262	36	76	100	126.39
12/26/2023 2045	-39	264	39	78	100	138.4
12/26/2023 2100	-43	266	42	79	100	149.88
12/26/2023 2115	-46	268	45	80	100	161.5

12/26/2023 2130	-49	269	48	82	100	173.4
12/26/2023 2145	-52	271	52	83	100	184.98
12/26/2023 2200	-55	273	55	84	100	195.83
12/26/2023 2215	-59	276	58	86	100	206.07
12/26/2023 2230	-62	278	61	87	100	215.11
12/26/2023 2245	-65	281	64	89	100	221.9
12/26/2023 2300	-68	285	67	91	100	227.52
12/26/2023 2315	-71	290	70	93	100	234.19
12/26/2023 2330	-74	296	73	96	100	240.15
12/26/2023 2345	-77	304	77	99	100	242.49
12/27/2023 0000	-79	315	80	104	100	245.91
12/27/2023 0015	-81	333	83	112	100	249.97
12/27/2023 0030	-82	356	85	130	100	248.75
12/27/2023 0045	-82	21	87	173	100	250.92
12/27/2023 0100	-80	40	86	223	100	247.63
12/27/2023 0115	-78	54	83	245	100	246.81
12/27/2023 0130	-75	62	80	254	100	242.5
12/27/2023 0145	-72	69	77	260	100	236.8
12/27/2023 0200	-69	74	74	263	100	233.35
12/27/2023 0215	-66	78	71	266	100	226.84
12/27/2023 0230	-63	81	68	268	100	218.82
12/27/2023 0245	-60	84	65	270	100	211.99
12/27/2023 0300	-56	86	62	272	100	204.67
12/27/2023 0315	-53	88	58	274	100	195.31
12/27/2023 0330	-50	90	55	275	100	184.71
12/27/2023 0345	-47	92	52	276	100	173.65
12/27/2023 0400	-44	94	49	278	100	162.06
12/27/2023 0415	-40	95	46	279	100	150.2
12/27/2023 0430	-37	97	43	280	100	138.66
12/27/2023 0445	-34	99	40	282	100	127.48
12/27/2023 0500	-31	100	37	283	100	116.07
12/27/2023 0515	-28	102	34	284	100	104.14
12/27/2023 0530	-25	103	31	286	100	92.05
12/27/2023 0545	-21	105	28	287	100	80.23
12/27/2023 0600	-18	107	25	288	100	69.43
12/27/2023 0615	-15	108	22	290	100	59.19
12/27/2023 0630	-12	110	19	291	100	54.71
12/27/2023 0645	-9	112	16	293	100	132.97
12/27/2023 0700	-6	114	13	294	100	2561.6
12/27/2023 0715	-3	115	10	296	100	58297.85
12/27/2023 0730	0	117	8	297	100	794098.38
12/27/2023 0745	3	119	5	299	100	2457848.73
12/27/2023 0800	5	121	2	301	99	5071288.9
12/27/2023 0815	8	123	0	303	99	8207095.94
12/27/2023 0830	11	126	-3	305	99	11762528.31
12/27/2023 0845	13	128	-6	307	99	15626211.54
12/27/2023 0900	16	130	-8	309	99	19635244.19

12/27/2023 0915	18	133	-10	311	99	23713419.27
12/27/2023 0930	20	136	-13	313	99	27841465.49
12/27/2023 0945	22	139	-15	315	99	31963547.77
12/27/2023 1000	25	142	-17	318	99	35981883.3
12/27/2023 1015	26	145	-19	320	99	39807581.9
12/27/2023 1030	28	148	-21	323	99	43384476.18
12/27/2023 1045	30	151	-23	326	99	46673100.71
12/27/2023 1100	31	155	-25	329	99	49630849.1
12/27/2023 1115	33	159	-26	332	99	52210428.48
12/27/2023 1130	34	163	-27	335	99	54370072.26
12/27/2023 1145	34	167	-29	338	99	56081438.85
12/27/2023 1200	35	171	-30	342	99	57329816.26
12/27/2023 1215	35	175	-31	345	99	58109573.85
12/27/2023 1230	36	179	-31	349	99	58419322.85
12/27/2023 1245	36	184	-32	353	99	58258923.47
12/27/2023 1300	35	188	-32	356	99	57628419.06
12/27/2023 1315	35	192	-32	0	99	56528575.63
12/27/2023 1330	34	196	-32	4	99	54963220.87
12/27/2023 1345	33	200	-32	8	99	52943599.69
12/27/2023 1400	32	204	-31	11	99	50493418.58
12/27/2023 1415	30	207	-31	15	99	47650673.05
12/27/2023 1430	29	211	-30	19	99	44462128.11
12/27/2023 1445	27	214	-29	22	99	40972577.44
12/27/2023 1500	25	218	-27	25	99	37221081.88
12/27/2023 1515	23	221	-26	28	99	33255798.49
12/27/2023 1530	21	223	-25	32	99	29155415.36
12/27/2023 1545	19	226	-23	35	99	25020321.15
12/27/2023 1600	16	229	-21	37	99	20923706.06
12/27/2023 1615	14	231	-19	40	99	16889278.07
12/27/2023 1630	11	234	-17	43	99	12964252.52
12/27/2023 1645	9	236	-15	45	99	9293075.81
12/27/2023 1700	6	238	-13	48	99	6018961.59
12/27/2023 1715	3	240	-10	50	99	3211721.07
12/27/2023 1730	1	242	-8	52	99	1191273.45
12/27/2023 1745	-2	244	-6	54	99	133902.22
12/27/2023 1800	-5	246	-3	56	99	7284.51
12/27/2023 1815	-8	248	0	58	99	259.08
12/27/2023 1830	-11	249	2	60	99	18.55
12/27/2023 1845	-14	251	5	62	99	9.76
12/27/2023 1900	-17	253	8	63	99	13.12
12/27/2023 1915	-20	254	10	65	99	17.93
12/27/2023 1930	-24	256	13	67	99	24.23
12/27/2023 1945	-27	258	16	68	99	31.09
12/27/2023 2000	-30	259	19	70	99	38.44
12/27/2023 2015	-33	261	22	71	99	46.33
12/27/2023 2030	-36	262	25	72	99	54.65
12/27/2023 2045	-39	264	28	74	99	63.22

12/27/2023 2100	-43	266	31	75	99	71.96
12/27/2023 2115	-46	268	34	77	99	80.77
12/27/2023 2130	-49	269	37	78	99	89.31
12/27/2023 2145	-52	271	40	80	99	97.32
12/27/2023 2200	-55	273	43	81	98	105.03
12/27/2023 2215	-59	276	46	82	98	112.9
12/27/2023 2230	-62	278	49	84	98	120.87
12/27/2023 2245	-65	281	52	85	98	128.5
12/27/2023 2300	-68	285	55	87	98	135.63
12/27/2023 2315	-71	290	59	89	98	142.3
12/27/2023 2330	-74	295	62	91	98	147.92
12/27/2023 2345	-77	303	65	93	98	152.01
12/28/2023 0000	-79	315	68	95	98	155.75
12/28/2023 0015	-81	332	71	98	98	160.25
12/28/2023 0030	-82	356	74	102	98	163.54
12/28/2023 0045	-82	20	77	107	98	164.7
12/28/2023 0100	-80	40	80	114	98	167.29
12/28/2023 0115	-78	53	83	127	98	169.23
12/28/2023 0130	-75	62	85	151	98	168.19
12/28/2023 0145	-72	69	85	191	98	167.72
12/28/2023 0200	-69	73	84	223	98	167.21
12/28/2023 0215	-66	77	81	240	98	165.9
12/28/2023 0230	-63	81	79	250	98	161.67
12/28/2023 0245	-60	83	76	256	98	159.11
12/28/2023 0300	-56	86	72	260	98	155.94
12/28/2023 0315	-53	88	69	263	98	150.66
12/28/2023 0330	-50	90	66	265	98	145.66
12/28/2023 0345	-47	92	63	268	98	141.1
12/28/2023 0400	-44	94	60	270	98	135.45
12/28/2023 0415	-40	95	57	271	98	128.57
12/28/2023 0430	-37	97	54	273	98	121.2
12/28/2023 0445	-34	99	51	275	98	113.51
12/28/2023 0500	-31	100	47	276	98	105.49
12/28/2023 0515	-28	102	44	278	98	97.51
12/28/2023 0530	-25	103	41	279	98	89.83
12/28/2023 0545	-22	105	38	280	98	82.17
12/28/2023 0600	-18	107	35	282	98	74.77
12/28/2023 0615	-15	108	32	283	98	67.18
12/28/2023 0630	-12	110	29	285	98	64.42
12/28/2023 0645	-9	112	26	286	98	137.64
12/28/2023 0700	-6	113	23	287	97	2373.13
12/28/2023 0715	-3	115	20	289	97	54535.31
12/28/2023 0730	0	117	17	290	97	769224.52
12/28/2023 0745	3	119	14	292	97	2406707.1
12/28/2023 0800	5	121	11	293	97	5006134.98
12/28/2023 0815	8	123	8	295	97	8134264.31
12/28/2023 0830	11	125	6	297	97	11684108.97

12/28/2023 0845	13	128	3	298	97	15546489.71
12/28/2023 0900	16	130	0	300	97	19557627.88
12/28/2023 0915	18	133	-3	302	97	23639223.85
12/28/2023 0930	20	136	-5	304	97	27772025.08
12/28/2023 0945	22	138	-8	306	97	31901166.53
12/28/2023 1000	25	141	-10	308	97	35928955.79
12/28/2023 1015	26	145	-13	310	97	39765841.58
12/28/2023 1030	28	148	-15	313	97	43355154.83
12/28/2023 1045	30	151	-17	315	97	46657316
12/28/2023 1100	31	155	-19	318	97	49629637.77
12/28/2023 1115	33	159	-22	320	97	52224543.35
12/28/2023 1130	34	163	-23	323	97	54399874.06
12/28/2023 1145	34	167	-25	326	97	56126982.16
12/28/2023 1200	35	171	-27	329	97	57391017.05
12/28/2023 1215	36	175	-28	332	97	58186335.4
12/28/2023 1230	36	179	-30	336	97	58511584.16
12/28/2023 1245	36	183	-31	339	97	58366650.55
12/28/2023 1300	35	188	-32	343	97	57751553.59
12/28/2023 1315	35	192	-33	347	97	56666923.89
12/28/2023 1330	34	196	-34	350	97	55116259.22
12/28/2023 1345	33	200	-34	354	97	53110234.51
12/28/2023 1400	32	204	-34	358	97	50671860.76
12/28/2023 1415	30	207	-34	2	97	47838650.14
12/28/2023 1430	29	211	-34	6	96	44657456.99
12/28/2023 1445	27	214	-34	10	96	41173633.52
12/28/2023 1500	25	217	-33	14	96	37426429.87
12/28/2023 1515	23	221	-32	17	96	33462979.3
12/28/2023 1530	21	223	-31	21	96	29360394.71
12/28/2023 1545	19	226	-30	25	96	25219188.33
12/28/2023 1600	17	229	-29	28	96	21115108.27
12/28/2023 1615	14	231	-27	31	96	17073237.81
12/28/2023 1630	12	234	-26	34	96	13137251.54
12/28/2023 1645	9	236	-24	37	96	9448050.64
12/28/2023 1700	6	238	-22	40	96	6152739.14
12/28/2023 1715	4	240	-20	43	96	3320145.58
12/28/2023 1730	1	242	-18	46	96	1253668.46
12/28/2023 1745	-2	244	-16	48	96	148345.7
12/28/2023 1800	-5	246	-13	50	96	8337.73
12/28/2023 1815	-8	248	-11	53	96	294.67
12/28/2023 1830	-11	249	-8	55	96	16.61
12/28/2023 1845	-14	251	-6	57	96	2.69
12/28/2023 1900	-17	253	-3	59	96	1.32
12/28/2023 1915	-20	254	0	61	96	1.35
12/28/2023 1930	-23	256	3	63	96	3.04
12/28/2023 1945	-27	258	5	65	96	5.8
12/28/2023 2000	-30	259	8	66	96	9.23
12/28/2023 2015	-33	261	11	68	96	13.3

12/28/2023 2030	-36	262	14	70	96	17.91
12/28/2023 2045	-39	264	17	71	95	22.92
12/28/2023 2100	-42	266	19	73	95	28.29
12/28/2023 2115	-46	268	22	74	95	34.07
12/28/2023 2130	-49	269	25	76	95	40.12
12/28/2023 2145	-52	271	28	77	95	46.35
12/28/2023 2200	-55	273	32	79	95	52.69
12/28/2023 2215	-58	276	35	80	95	59.04
12/28/2023 2230	-62	278	38	82	95	65.12
12/28/2023 2245	-65	281	41	84	95	70.83
12/28/2023 2300	-68	285	44	85	95	76.43
12/28/2023 2315	-71	290	47	87	95	82.17
12/28/2023 2330	-74	295	50	89	95	87.9
12/28/2023 2345	-77	303	53	90	95	93.31
12/29/2023 0000	-79	315	56	93	95	98.37
12/29/2023 0015	-81	332	60	95	95	103.03
12/29/2023 0030	-82	355	63	97	95	106.76
12/29/2023 0045	-82	19	66	100	95	109.51
12/29/2023 0100	-80	39	69	104	95	112.34
12/29/2023 0115	-78	52	72	108	95	115.5
12/29/2023 0130	-75	62	75	114	95	117.41
12/29/2023 0145	-72	68	78	122	95	118.16
12/29/2023 0200	-69	73	80	134	95	119.77
12/29/2023 0215	-66	77	82	151	95	121.08
12/29/2023 0230	-63	80	83	176	94	121.03
12/29/2023 0245	-60	83	82	202	94	120.51
12/29/2023 0300	-57	86	81	221	94	118.87
12/29/2023 0315	-53	88	78	234	94	116.4
12/29/2023 0330	-50	90	75	243	94	114.87
12/29/2023 0345	-47	92	73	249	94	112.74
12/29/2023 0400	-44	93	70	254	94	109.13
12/29/2023 0415	-41	95	66	258	94	105.61
12/29/2023 0430	-37	97	63	261	94	102.42
12/29/2023 0445	-34	98	60	263	94	98.5
12/29/2023 0500	-31	100	57	266	94	93.64
12/29/2023 0515	-28	102	54	268	94	88.36
12/29/2023 0530	-25	103	51	270	94	82.83
12/29/2023 0545	-22	105	48	271	94	77.02
12/29/2023 0600	-18	106	44	273	94	71.82
12/29/2023 0615	-15	108	41	275	94	66.85
12/29/2023 0630	-12	110	38	276	94	66.39
12/29/2023 0645	-9	112	35	278	94	136.03
12/29/2023 0700	-6	113	32	279	94	2205
12/29/2023 0715	-3	115	29	281	94	51215.17
12/29/2023 0730	0	117	26	282	94	746635.37
12/29/2023 0745	3	119	23	284	93	2359946.87
12/29/2023 0800	5	121	20	285	93	4946596.39

12/29/2023 0815	8	123	17	287	93	8068184.87
12/29/2023 0830	10	125	14	289	93	11613583.48
12/29/2023 0845	13	128	11	290	93	15475575.65
12/29/2023 0900	16	130	8	292	93	19489598.1
12/29/2023 0915	18	133	5	293	93	23575456.16
12/29/2023 0930	20	135	2	295	93	27713903.51
12/29/2023 0945	22	138	-1	297	93	31850902.51
12/29/2023 1000	25	141	-4	299	93	35888784.27
12/29/2023 1015	26	144	-6	301	93	39737388.91
12/29/2023 1030	28	148	-9	303	93	43339616.7
12/29/2023 1045	30	151	-12	305	93	46655779.26
12/29/2023 1100	31	155	-14	307	93	49643058.53
12/29/2023 1115	33	159	-17	310	93	52253546.47
12/29/2023 1130	34	162	-19	312	93	54444684.67
12/29/2023 1145	35	167	-21	315	93	56187548.01
12/29/2023 1200	35	171	-23	317	93	57467188.66
12/29/2023 1215	36	175	-25	320	93	58277984.9
12/29/2023 1230	36	179	-27	323	93	58618639.97
12/29/2023 1245	36	183	-29	326	92	58489077.39
12/29/2023 1300	35	188	-31	330	92	57889294.09
12/29/2023 1315	35	192	-32	333	92	56819781
12/29/2023 1330	34	196	-34	337	92	55283691.27
12/29/2023 1345	33	200	-35	341	92	53291099.89
12/29/2023 1400	32	204	-36	345	92	50864279.41
12/29/2023 1415	31	207	-37	349	92	48040221.19
12/29/2023 1430	29	211	-37	353	92	44865868.54
12/29/2023 1445	27	214	-37	357	92	41387187.45
12/29/2023 1500	25	217	-37	1	92	37643695.4
12/29/2023 1515	23	220	-37	5	92	33681517.71
12/29/2023 1530	21	223	-37	9	92	29576095.61
12/29/2023 1545	19	226	-36	13	92	25427956.28
12/29/2023 1600	17	229	-36	17	92	21315479.11
12/29/2023 1615	14	231	-35	21	92	17265371.97
12/29/2023 1630	12	234	-33	25	92	13317822.19
12/29/2023 1645	9	236	-32	29	92	9609818.76
12/29/2023 1700	6	238	-31	32	92	6292250.79
12/29/2023 1715	4	240	-29	36	92	3433709.21
12/29/2023 1730	1	242	-27	39	91	1320458.38
12/29/2023 1745	-2	244	-25	42	91	164562.22
12/29/2023 1800	-5	246	-23	45	91	9572.39
12/29/2023 1815	-8	248	-21	47	91	338.24
12/29/2023 1830	-11	249	-19	50	91	18.36
12/29/2023 1845	-14	251	-16	52	91	2.83
12/29/2023 1900	-17	253	-14	55	91	1.27
12/29/2023 1915	-20	254	-11	57	91	0.5
12/29/2023 1930	-23	256	-9	59	91	0.5
12/29/2023 1945	-26	258	-6	61	91	0.5

12/29/2023 2000	-30	259	-3	63	91	0.56
12/29/2023 2015	-33	261	0	65	91	1.18
12/29/2023 2030	-36	262	3	67	91	2.54
12/29/2023 2045	-39	264	6	69	91	4.72
12/29/2023 2100	-42	266	8	71	91	7.43
12/29/2023 2115	-46	268	11	72	91	10.62
12/29/2023 2130	-49	269	14	74	91	14.21
12/29/2023 2145	-52	271	17	76	90	18.09
12/29/2023 2200	-55	273	20	77	90	22.26
12/29/2023 2215	-58	276	23	79	90	26.72
12/29/2023 2230	-62	278	26	81	90	31.37
12/29/2023 2245	-65	281	29	82	90	36.12
12/29/2023 2300	-68	285	33	84	90	40.95
12/29/2023 2315	-71	290	36	86	90	45.71
12/29/2023 2330	-74	295	39	88	90	50.2
12/29/2023 2345	-77	303	42	90	90	54.45
12/30/2023 0000	-79	315	45	91	90	58.69
12/30/2023 0015	-81	331	48	94	90	63.03
12/30/2023 0030	-82	354	51	96	90	67.25
12/30/2023 0045	-82	19	54	98	90	71.18
12/30/2023 0100	-80	38	57	101	90	74.86
12/30/2023 0115	-78	52	60	104	90	78.11
12/30/2023 0130	-75	61	64	108	90	80.58
12/30/2023 0145	-72	68	66	112	90	82.47
12/30/2023 0200	-69	73	69	117	89	84.54
12/30/2023 0215	-66	77	72	124	89	86.64
12/30/2023 0230	-63	80	74	132	89	87.84
12/30/2023 0245	-60	83	77	143	89	88.22
12/30/2023 0300	-57	85	78	157	89	88.55
12/30/2023 0315	-53	88	79	174	89	88.71
12/30/2023 0330	-50	90	79	192	89	88.33
12/30/2023 0345	-47	92	77	208	89	87.54
12/30/2023 0400	-44	93	76	221	89	86.76
12/30/2023 0415	-41	95	73	231	89	85.64
12/30/2023 0430	-37	97	71	238	89	83.49
12/30/2023 0445	-34	98	68	244	89	80.9
12/30/2023 0500	-31	100	65	249	89	78.6
12/30/2023 0515	-28	102	62	253	89	76.16
12/30/2023 0530	-25	103	59	256	89	72.98
12/30/2023 0545	-22	105	56	259	89	69.23
12/30/2023 0600	-19	106	53	261	88	65.84
12/30/2023 0615	-15	108	50	264	88	62.24
12/30/2023 0630	-12	110	46	266	88	62.72
12/30/2023 0645	-9	111	43	268	88	128.97
12/30/2023 0700	-6	113	40	270	88	2054.34
12/30/2023 0715	-4	115	37	271	88	48292.83
12/30/2023 0730	0	117	34	273	88	726226.07

12/30/2023 0745	2	119	31	275	88	2317506.22
12/30/2023 0800	5	121	28	277	88	4892672.15
12/30/2023 0815	8	123	24	278	88	8008863.29
12/30/2023 0830	10	125	21	280	88	11550970.75
12/30/2023 0845	13	128	18	281	88	15413505.45
12/30/2023 0900	15	130	15	283	88	19431194.7
12/30/2023 0915	18	133	12	285	88	23522153.48
12/30/2023 0930	20	135	9	286	88	27667141.41
12/30/2023 0945	22	138	6	288	88	31812801.81
12/30/2023 1000	24	141	3	290	87	35861413.94
12/30/2023 1015	26	144	1	292	87	39722262.89
12/30/2023 1030	28	148	-3	293	87	43337893.25
12/30/2023 1045	30	151	-6	295	87	46668515.06
12/30/2023 1100	31	155	-9	297	87	49671127.78
12/30/2023 1115	33	158	-11	299	87	52297442.58
12/30/2023 1130	34	162	-14	302	87	54504493.21
12/30/2023 1145	35	166	-17	304	87	56263107.36
12/30/2023 1200	35	170	-19	306	87	57558283.32
12/30/2023 1215	36	175	-22	309	87	58384456.64
12/30/2023 1230	36	179	-24	311	87	58740408.01
12/30/2023 1245	36	183	-26	314	87	58626106.95
12/30/2023 1300	35	187	-29	317	87	58041531.4
12/30/2023 1315	35	192	-31	320	87	56987030.06
12/30/2023 1330	34	196	-33	324	87	55465398.92
12/30/2023 1345	33	200	-34	327	86	53486084.08
12/30/2023 1400	32	203	-36	331	86	51070574.6
12/30/2023 1415	31	207	-37	335	86	48255297.37
12/30/2023 1430	29	211	-39	339	86	45087277.05
12/30/2023 1445	27	214	-40	343	86	41613147.23
12/30/2023 1500	26	217	-41	347	86	37872779.76
12/30/2023 1515	23	220	-41	352	86	33911321.5
12/30/2023 1530	21	223	-42	356	86	29802447.24
12/30/2023 1545	19	226	-42	1	86	25646571.93
12/30/2023 1600	17	229	-42	5	86	21524761.37
12/30/2023 1615	14	231	-41	10	86	17465611.94
12/30/2023 1630	12	234	-41	15	86	13505915.69
12/30/2023 1645	9	236	-40	19	86	9778376.99
12/30/2023 1700	7	238	-39	23	86	6437505.16
12/30/2023 1715	4	240	-37	27	85	3552431.7
12/30/2023 1730	1	242	-36	31	85	1391823.17
12/30/2023 1745	-2	244	-34	35	85	182746.27
12/30/2023 1800	-5	246	-33	38	85	11020.66
12/30/2023 1815	-8	248	-31	42	85	390
12/30/2023 1830	-11	249	-29	45	85	20.4
12/30/2023 1845	-14	251	-26	48	85	2.99
12/30/2023 1900	-17	253	-24	51	85	1.29
12/30/2023 1915	-20	254	-22	53	85	0.5

12/30/2023 1930	-23	256	-19	56	85	0.5
12/30/2023 1945	-26	258	-17	58	85	0.5
12/30/2023 2000	-29	259	-14	61	85	0.5
12/30/2023 2015	-33	261	-11	63	85	0.5
12/30/2023 2030	-36	262	-8	65	85	0.5
12/30/2023 2045	-39	264	-6	67	85	0.5
12/30/2023 2100	-42	266	-3	69	84	0.56
12/30/2023 2115	-45	268	1	71	84	1.14
12/30/2023 2130	-49	269	3	73	84	2.36
12/30/2023 2145	-52	271	6	75	84	4.18
12/30/2023 2200	-55	274	9	76	84	6.4
12/30/2023 2215	-58	276	12	78	84	9
12/30/2023 2230	-61	278	15	80	84	11.87
12/30/2023 2245	-65	281	18	82	84	14.96
12/30/2023 2300	-68	285	21	84	84	18.28
12/30/2023 2315	-71	290	24	85	84	21.79
12/30/2023 2330	-74	295	28	87	84	25.41
12/30/2023 2345	-77	303	31	89	84	29.09
12/31/2023 0000	-79	314	34	91	84	32.8
12/31/2023 0015	-81	331	37	93	84	36.37
12/31/2023 0030	-82	353	40	95	83	39.7
12/31/2023 0045	-82	18	43	97	83	42.9
12/31/2023 0100	-80	38	46	100	83	46.13
12/31/2023 0115	-78	51	49	102	83	49.38
12/31/2023 0130	-75	61	52	105	83	52.44
12/31/2023 0145	-72	68	55	108	83	55.27
12/31/2023 0200	-69	73	58	112	83	57.88
12/31/2023 0215	-66	77	61	116	83	60.08
12/31/2023 0230	-63	80	64	121	83	61.69
12/31/2023 0245	-60	83	66	127	83	62.93
12/31/2023 0300	-57	85	69	134	83	64.2
12/31/2023 0315	-54	87	71	142	83	65.42
12/31/2023 0330	-50	90	73	152	83	66.26
12/31/2023 0345	-47	91	74	164	82	66.6
12/31/2023 0400	-44	93	74	177	82	66.6
12/31/2023 0415	-41	95	74	190	82	66.34
12/31/2023 0430	-37	97	73	202	82	65.78
12/31/2023 0445	-34	98	72	213	82	64.78
12/31/2023 0500	-31	100	70	222	82	63.33
12/31/2023 0515	-28	101	67	229	82	61.73
12/31/2023 0530	-25	103	65	235	82	60.22
12/31/2023 0545	-22	105	62	240	82	58.5
12/31/2023 0600	-19	106	59	245	82	56.84
12/31/2023 0615	-16	108	56	249	82	54.73
12/31/2023 0630	-13	110	53	252	82	56.47
12/31/2023 0645	-10	111	50	255	82	119.67
12/31/2023 0700	-7	113	47	258	81	1920.27

12/31/2023 0715	-4	115	44	260	81	45729.63
12/31/2023 0730	0	117	41	262	81	707903.59
12/31/2023 0745	2	119	38	264	81	2279327.63
12/31/2023 0800	5	121	35	266	81	4844364.75
12/31/2023 0815	8	123	31	268	81	7956310.96
12/31/2023 0830	10	125	28	270	81	11496295.66
12/31/2023 0845	13	127	25	272	81	15360320.41
12/31/2023 0900	15	130	22	274	81	19382460.93
12/31/2023 0915	18	132	19	275	81	23479353.55
12/31/2023 0930	20	135	16	277	81	27631774.98
12/31/2023 0945	22	138	13	279	81	31786902.89
12/31/2023 1000	24	141	9	281	81	35846884.65
12/31/2023 1015	26	144	6	282	80	39720499.73
12/31/2023 1030	28	147	3	284	80	43350013.99
12/31/2023 1045	30	151	1	286	80	46695544.78
12/31/2023 1100	31	154	-3	288	80	49713857.08
12/31/2023 1115	33	158	-6	290	80	52356229.66
12/31/2023 1130	34	162	-9	292	80	54579279.95
12/31/2023 1145	35	166	-12	294	80	56353620.51
12/31/2023 1200	35	170	-15	296	80	57664241.37
12/31/2023 1215	36	175	-17	298	80	58505672.33
12/31/2023 1230	36	179	-20	300	80	58876793.1
12/31/2023 1245	36	183	-23	303	80	58777629.08
12/31/2023 1300	36	187	-25	305	80	58208143.08
12/31/2023 1315	35	191	-28	308	80	57168540.79
12/31/2023 1330	34	196	-30	311	79	55661250.91
12/31/2023 1345	33	200	-33	314	79	53695063.09
12/31/2023 1400	32	203	-35	317	79	51290635.82
12/31/2023 1415	31	207	-37	321	79	48483781.42
12/31/2023 1430	29	211	-39	325	79	45321590.31
12/31/2023 1445	27	214	-41	329	79	41851414.99
12/31/2023 1500	26	217	-42	333	79	38113577.54
12/31/2023 1515	24	220	-43	337	79	34152290.69
12/31/2023 1530	21	223	-45	342	79	30039371.59
12/31/2023 1545	19	226	-46	347	79	25874977.54
12/31/2023 1600	17	229	-46	352	79	21742894.91
12/31/2023 1615	14	231	-46	357	79	17673884.59
12/31/2023 1630	12	234	-47	2	79	13701476.25
12/31/2023 1645	9	236	-46	7	78	9953717.19
12/31/2023 1700	7	238	-46	12	78	6588509.23
12/31/2023 1715	4	240	-45	17	78	3676323.81
12/31/2023 1730	1	242	-44	22	78	1467932.79
12/31/2023 1745	-2	244	-43	26	78	203107.19
12/31/2023 1800	-5	246	-42	31	78	12720.37
12/31/2023 1815	-8	248	-40	35	78	451.66
12/31/2023 1830	-11	249	-38	39	78	22.76
12/31/2023 1845	-14	251	-36	42	78	3.17

12/31/2023 1900	-17	253	-34	46	78	1.31
12/31/2023 1915	-20	254	-32	49	78	1.02
12/31/2023 1930	-23	256	-30	52	78	0.5
12/31/2023 1945	-26	258	-27	55	77	0.5
12/31/2023 2000	-29	259	-25	58	77	0.5
12/31/2023 2015	-32	261	-22	60	77	0.5
12/31/2023 2030	-36	263	-19	63	77	0.5
12/31/2023 2045	-39	264	-16	65	77	0.5
12/31/2023 2100	-42	266	-14	67	77	0.5
12/31/2023 2115	-45	268	-11	70	77	0.5
12/31/2023 2130	-48	269	-8	72	77	0.5
12/31/2023 2145	-52	271	-5	74	77	0.51
12/31/2023 2200	-55	274	-2	76	77	0.59
12/31/2023 2215	-58	276	1	77	77	1.22
12/31/2023 2230	-61	279	4	79	77	2.37
12/31/2023 2245	-64	282	7	81	76	3.91
12/31/2023 2300	-68	285	10	83	76	5.76
12/31/2023 2315	-71	290	13	85	76	7.88
12/31/2023 2330	-74	295	16	87	76	10.18
12/31/2023 2345	-76	303	20	89	76	12.64