

ZURICH, SWITZERLAND, DECEMBER 8, 2022

ABB share buybacks

December 1, 2022 – December 7, 2022

During the period December 1, 2022, to December 7, 2022, ABB repurchased a total of 765,000 shares as part of its share buyback program announced on March 31, 2022.

The buyback program is being carried out in accordance with the Swiss Ordinance on Financial Market Infrastructures and Market Conduct in Securities and Derivatives Trading (FMIO), the Market Abuse Regulation (EU) No 596/2014 (“MAR”) and the Commission Delegated Regulation (EU) No 2016/1052 (the “Safe Harbour Regulation”).

Date	Aggregated daily volume (number of shares)	Daily weighted average share price (CHF)	Daily buyback amount (CHF)
Dec 1, 2022	175,000	29.602300	5,180,402.50
Dec 2, 2022	125,000	29.475000	3,684,375.00
Dec 5, 2022	148,000	29.575500	4,377,174.00
Dec 6, 2022	183,000	29.379800	5,376,503.40
Dec 7, 2022	134,000	29.067400	3,895,031.60

All share purchases above have been carried out on a separate trading line on the SIX Swiss Exchange by a bank, on behalf of ABB. A full breakdown of the transactions pursuant to article 5.3 of MAR and article 2.3 of the Safe Harbour Regulation is attached to this announcement. The bank makes its trading decisions concerning the timing of share repurchases independently of ABB, within some defined parameters.

The total number of ABB Ltd shares which have been bought back within the current share buyback program from April 1, 2022, to and including December 7, 2022, is 57,530,000 shares.

Additional information is available on ABB’s investor relations website site at <https://global.abb/group/en/investors/investor-and-shareholder-resources/share-buybacks/2022>

ABB is a technology leader in electrification and automation, enabling a more sustainable and resource-efficient future. The company’s solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated. Building on more than 130 years of excellence, ABB’s ~105,000 employees are committed to driving innovations that accelerate industrial transformation. www.abb.com

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Appendix

Detailed individual transaction information:

All share purchases below were completed on a separate trading line on the SIX Swiss Exchange (Bloomberg ticker for SIX Exchange: SE)

Date	Time (CET)	Volume	Price	Exchange	2022-12-01	10:44:18	1,000	29.61	SE
2022-12-01	9:03:38	1,000	29.75	SE	2022-12-01	10:44:18	1,000	29.61	SE
2022-12-01	9:05:19	1,000	29.90	SE	2022-12-01	10:47:04	1,000	29.62	SE
2022-12-01	9:05:38	1,000	29.92	SE	2022-12-01	10:47:04	1,507	29.62	SE
2022-12-01	9:05:49	1,000	29.92	SE	2022-12-01	10:47:04	1,000	29.62	SE
2022-12-01	9:05:49	1,000	29.92	SE	2022-12-01	11:19:33	580	29.60	SE
2022-12-01	9:06:11	1,000	29.89	SE	2022-12-01	11:19:50	369	29.59	SE
2022-12-01	9:11:32	5,000	29.90	SE	2022-12-01	11:23:22	825	29.59	SE
2022-12-01	9:15:58	1,021	29.78	SE	2022-12-01	11:23:22	369	29.59	SE
2022-12-01	9:17:50	676	29.75	SE	2022-12-01	11:25:22	1,000	29.61	SE
2022-12-01	9:17:54	1,000	29.75	SE	2022-12-01	11:25:25	1,000	29.61	SE
2022-12-01	9:20:06	1,878	29.77	SE	2022-12-01	11:25:26	1,000	29.61	SE
2022-12-01	9:22:53	381	29.75	SE	2022-12-01	11:25:26	1,578	29.61	SE
2022-12-01	9:24:35	1,447	29.70	SE	2022-12-01	11:44:58	373	29.62	SE
2022-12-01	9:24:35	1,000	29.70	SE	2022-12-01	11:46:24	581	29.61	SE
2022-12-01	9:24:41	116	29.69	SE	2022-12-01	11:50:42	350	29.61	SE
2022-12-01	9:25:11	377	29.69	SE	2022-12-01	11:56:34	727	29.58	SE
2022-12-01	9:26:42	1,000	29.64	SE	2022-12-01	12:04:11	1,578	29.61	SE
2022-12-01	9:27:07	570	29.66	SE	2022-12-01	12:04:11	1,000	29.61	SE
2022-12-01	9:28:07	417	29.65	SE	2022-12-01	12:04:27	1,000	29.61	SE
2022-12-01	9:28:14	1,578	29.66	SE	2022-12-01	12:09:50	354	29.61	SE
2022-12-01	9:28:14	1,000	29.66	SE	2022-12-01	12:17:04	1,000	29.65	SE
2022-12-01	9:28:41	1,000	29.66	SE	2022-12-01	12:17:04	1,000	29.65	SE
2022-12-01	9:29:14	1,000	29.66	SE	2022-12-01	12:17:04	1,578	29.64	SE
2022-12-01	9:29:33	3,535	29.67	SE	2022-12-01	12:17:09	1,000	29.64	SE
2022-12-01	9:49:43	464	29.73	SE	2022-12-01	12:17:37	544	29.64	SE
2022-12-01	9:49:59	1,043	29.71	SE	2022-12-01	12:55:55	1,000	29.67	SE
2022-12-01	9:49:59	464	29.71	SE	2022-12-01	12:55:55	1,578	29.67	SE
2022-12-01	10:06:15	1,578	29.72	SE	2022-12-01	13:02:27	854	29.69	SE
2022-12-01	10:06:15	106	29.71	SE	2022-12-01	13:09:01	699	29.67	SE
2022-12-01	10:10:10	1,578	29.65	SE	2022-12-01	13:09:04	1,000	29.67	SE
2022-12-01	10:10:10	63	29.64	SE	2022-12-01	13:09:04	356	29.67	SE
2022-12-01	10:10:11	1,558	29.64	SE	2022-12-01	13:39:54	1,578	29.65	SE
2022-12-01	10:14:35	1,578	29.61	SE	2022-12-01	13:39:54	1,000	29.65	SE
2022-12-01	10:15:12	387	29.57	SE	2022-12-01	14:17:46	1,000	29.67	SE
2022-12-01	10:16:36	1,578	29.62	SE	2022-12-01	14:17:46	963	29.67	SE
2022-12-01	10:22:01	464	29.61	SE	2022-12-01	14:31:10	1,900	29.65	SE
2022-12-01	10:26:05	540	29.62	SE	2022-12-01	14:32:07	562	29.64	SE
2022-12-01	10:37:06	464	29.61	SE	2022-12-01	14:35:25	562	29.71	SE
2022-12-01	10:41:26	1,300	29.59	SE	2022-12-01	14:37:30	1,000	29.72	SE
2022-12-01	10:41:35	1,000	29.59	SE	2022-12-01	14:44:13	561	29.75	SE

2022-12-01	14:44:42	950	29.76	SE	2022-12-01	16:03:25	1,578	29.55	SE
2022-12-01	14:50:21	769	29.62	SE	2022-12-01	16:03:25	1,000	29.55	SE
2022-12-01	14:50:21	1,000	29.62	SE	2022-12-01	16:03:25	1,000	29.55	SE
2022-12-01	15:01:14	1,000	29.64	SE	2022-12-01	16:09:19	695	29.54	SE
2022-12-01	15:01:14	1,000	29.64	SE	2022-12-01	16:09:45	1,000	29.53	SE
2022-12-01	15:01:30	1,000	29.64	SE	2022-12-01	16:09:45	1,578	29.53	SE
2022-12-01	15:01:30	422	29.64	SE	2022-12-01	16:11:06	575	29.52	SE
2022-12-01	15:01:32	1,000	29.64	SE	2022-12-01	16:11:20	693	29.52	SE
2022-12-01	15:03:47	975	29.61	SE	2022-12-01	16:13:44	1,000	29.45	SE
2022-12-01	15:03:47	413	29.61	SE	2022-12-01	16:13:44	2	29.45	SE
2022-12-01	15:03:47	1,000	29.61	SE	2022-12-01	16:13:45	1,000	29.45	SE
2022-12-01	15:05:19	4,000	29.61	SE	2022-12-01	16:18:07	1,063	29.46	SE
2022-12-01	15:12:31	485	29.64	SE	2022-12-01	16:18:07	1,000	29.46	SE
2022-12-01	15:12:38	457	29.64	SE	2022-12-01	16:19:02	1,578	29.45	SE
2022-12-01	15:12:48	429	29.64	SE	2022-12-01	16:19:02	1,000	29.45	SE
2022-12-01	15:12:54	25	29.65	SE	2022-12-01	16:19:02	1,000	29.45	SE
2022-12-01	15:13:08	444	29.65	SE	2022-12-01	16:20:33	1,000	29.45	SE
2022-12-01	15:13:08	400	29.65	SE	2022-12-01	16:20:33	1,000	29.45	SE
2022-12-01	15:13:19	426	29.65	SE	2022-12-01	16:24:14	1,000	29.42	SE
2022-12-01	15:13:19	406	29.65	SE	2022-12-01	16:24:14	1,000	29.42	SE
2022-12-01	15:30:43	515	29.65	SE	2022-12-01	16:26:50	1,000	29.43	SE
2022-12-01	15:30:48	504	29.65	SE	2022-12-01	16:27:03	1,000	29.44	SE
2022-12-01	15:31:02	1,578	29.65	SE	2022-12-01	16:27:23	1,000	29.43	SE
2022-12-01	15:31:02	1,000	29.65	SE	2022-12-01	16:27:45	1,000	29.44	SE
2022-12-01	15:36:43	1,000	29.65	SE	2022-12-01	16:28:10	1,000	29.43	SE
2022-12-01	15:36:43	1,578	29.64	SE	2022-12-01	16:28:10	1,000	29.43	SE
2022-12-01	15:36:43	1,000	29.65	SE	2022-12-01	16:33:23	1,000	29.40	SE
2022-12-01	15:36:46	1,000	29.64	SE	2022-12-01	16:33:33	1,000	29.41	SE
2022-12-01	15:37:27	513	29.60	SE	2022-12-01	16:33:51	1,000	29.41	SE
2022-12-01	15:38:42	1,000	29.58	SE	2022-12-01	16:34:29	1,000	29.43	SE
2022-12-01	15:38:42	500	29.58	SE	2022-12-01	16:34:38	1,000	29.43	SE
2022-12-01	15:38:44	1,000	29.58	SE	2022-12-01	16:36:36	1,000	29.41	SE
2022-12-01	15:38:45	283	29.58	SE	2022-12-01	16:36:36	1,000	29.41	SE
2022-12-01	15:38:48	505	29.58	SE	2022-12-01	16:37:30	1,000	29.42	SE
2022-12-01	15:42:25	1,000	29.57	SE	2022-12-01	16:37:30	1,000	29.42	SE
2022-12-01	15:42:25	1,000	29.57	SE	2022-12-01	16:39:44	1,000	29.41	SE
2022-12-01	15:42:25	405	29.57	SE	2022-12-01	16:39:44	1,000	29.41	SE
2022-12-01	15:48:51	1,578	29.59	SE	2022-12-01	16:40:15	1,000	29.41	SE
2022-12-01	15:50:44	1,000	29.59	SE	2022-12-01	16:40:29	1,000	29.41	SE
2022-12-01	15:51:41	1,000	29.61	SE	2022-12-01	16:42:34	1,578	29.44	SE
2022-12-01	15:51:41	1,000	29.61	SE	2022-12-01	16:43:18	1,578	29.45	SE
2022-12-01	15:51:56	1,578	29.60	SE	2022-12-01	16:43:18	1,000	29.45	SE
2022-12-01	15:51:56	1,122	29.60	SE	2022-12-01	16:44:44	1,000	29.46	SE
2022-12-01	15:52:42	1,578	29.58	SE	2022-12-01	16:44:44	1,578	29.46	SE
2022-12-01	15:52:42	1,000	29.58	SE	2022-12-01	16:44:44	1,000	29.46	SE
2022-12-01	16:00:03	1,000	29.59	SE	2022-12-01	16:44:48	1,000	29.46	SE
2022-12-01	16:01:12	1,000	29.58	SE	2022-12-01	16:44:49	1,000	29.46	SE
2022-12-01	16:01:36	1,000	29.57	SE	2022-12-01	16:44:49	533	29.45	SE
2022-12-01	16:01:36	1,000	29.57	SE	2022-12-01	16:44:49	46	29.46	SE

2022-12-02	9:03:06	1,000	29.54	SE	2022-12-02	10:49:46	1,578	29.74	SE
2022-12-02	9:03:06	1,000	29.54	SE	2022-12-02	10:49:46	1,000	29.74	SE
2022-12-02	9:08:54	510	29.57	SE	2022-12-02	11:08:21	1,000	29.73	SE
2022-12-02	9:10:04	897	29.57	SE	2022-12-02	11:08:21	1,000	29.72	SE
2022-12-02	9:10:04	1,000	29.57	SE	2022-12-02	11:26:06	844	29.74	SE
2022-12-02	9:13:29	1,000	29.49	SE	2022-12-02	11:26:44	1,481	29.74	SE
2022-12-02	9:13:31	1,235	29.50	SE	2022-12-02	11:26:44	349	29.74	SE
2022-12-02	9:13:31	1,000	29.50	SE	2022-12-02	11:32:04	1,000	29.72	SE
2022-12-02	9:16:50	372	29.49	SE	2022-12-02	11:32:05	1,000	29.72	SE
2022-12-02	9:17:19	750	29.48	SE	2022-12-02	11:49:05	579	29.71	SE
2022-12-02	9:17:27	1,000	29.50	SE	2022-12-02	11:49:56	1,000	29.72	SE
2022-12-02	9:17:58	1,000	29.49	SE	2022-12-02	11:49:56	1,000	29.72	SE
2022-12-02	9:17:58	404	29.49	SE	2022-12-02	12:46:52	31	29.68	SE
2022-12-02	9:18:31	709	29.50	SE	2022-12-02	12:46:52	343	29.68	SE
2022-12-02	9:20:50	392	29.50	SE	2022-12-02	12:46:52	1,000	29.68	SE
2022-12-02	9:20:50	392	29.50	SE	2022-12-02	12:46:53	1	29.68	SE
2022-12-02	9:23:12	392	29.53	SE	2022-12-02	12:46:56	342	29.68	SE
2022-12-02	9:23:37	423	29.51	SE	2022-12-02	13:04:42	70	29.66	SE
2022-12-02	9:23:39	59	29.51	SE	2022-12-02	13:04:54	410	29.66	SE
2022-12-02	9:23:45	469	29.51	SE	2022-12-02	13:04:54	1	29.66	SE
2022-12-02	9:24:16	1,000	29.53	SE	2022-12-02	13:05:10	355	29.66	SE
2022-12-02	9:24:16	1,117	29.53	SE	2022-12-02	13:05:10	1,000	29.66	SE
2022-12-02	9:27:06	1,000	29.48	SE	2022-12-02	13:05:40	1,000	29.66	SE
2022-12-02	9:40:58	1,014	29.45	SE	2022-12-02	13:23:27	1,000	29.68	SE
2022-12-02	9:40:58	1,000	29.45	SE	2022-12-02	13:23:27	1,000	29.68	SE
2022-12-02	9:42:14	1,578	29.46	SE	2022-12-02	13:24:43	3,004	29.68	SE
2022-12-02	9:42:14	1,000	29.46	SE	2022-12-02	13:48:57	562	29.66	SE
2022-12-02	9:48:27	1,578	29.42	SE	2022-12-02	13:51:41	568	29.66	SE
2022-12-02	9:49:23	1,578	29.42	SE	2022-12-02	13:51:41	1,000	29.66	SE
2022-12-02	9:49:23	1,000	29.42	SE	2022-12-02	14:09:27	732	29.64	SE
2022-12-02	10:16:18	639	29.63	SE	2022-12-02	14:09:27	212	29.64	SE
2022-12-02	10:16:18	1,000	29.63	SE	2022-12-02	14:09:27	588	29.64	SE
2022-12-02	10:30:22	16	29.69	SE	2022-12-02	14:15:31	568	29.60	SE
2022-12-02	10:30:22	1,000	29.69	SE	2022-12-02	14:27:13	7	29.56	SE
2022-12-02	10:31:04	1,000	29.68	SE	2022-12-02	14:27:26	400	29.56	SE
2022-12-02	10:31:05	167	29.67	SE	2022-12-02	14:27:26	391	29.56	SE
2022-12-02	10:31:05	283	29.67	SE	2022-12-02	14:27:26	1,000	29.56	SE
2022-12-02	10:31:05	193	29.67	SE	2022-12-02	14:30:02	528	29.52	SE
2022-12-02	10:31:05	116	29.67	SE	2022-12-02	14:31:02	377	29.24	SE
2022-12-02	10:31:05	332	29.67	SE	2022-12-02	14:31:02	489	29.24	SE
2022-12-02	10:31:15	267	29.67	SE	2022-12-02	14:31:14	1,000	29.32	SE
2022-12-02	10:31:15	1,000	29.67	SE	2022-12-02	14:31:14	391	29.32	SE
2022-12-02	10:31:21	803	29.67	SE	2022-12-02	14:31:14	1,000	29.32	SE
2022-12-02	10:31:21	377	29.67	SE	2022-12-02	14:31:15	377	29.30	SE
2022-12-02	10:31:21	1,000	29.67	SE	2022-12-02	14:31:15	887	29.30	SE
2022-12-02	10:35:20	363	29.67	SE	2022-12-02	14:31:22	114	29.26	SE
2022-12-02	10:49:04	1,000	29.72	SE	2022-12-02	14:31:22	648	29.26	SE
2022-12-02	10:49:04	1,073	29.72	SE	2022-12-02	14:31:32	164	29.33	SE
2022-12-02	10:49:44	184	29.73	SE	2022-12-02	14:31:32	1,000	29.33	SE

2022-12-02	14:31:35	395	29.31	SE	2022-12-02	16:05:32	1,030	29.63	SE
2022-12-02	14:31:43	1,000	29.29	SE	2022-12-05	9:07:50	1,000	29.64	SE
2022-12-02	14:31:48	1,000	29.30	SE	2022-12-05	9:07:50	1,000	29.64	SE
2022-12-02	14:32:12	960	29.28	SE	2022-12-05	9:07:52	330	29.63	SE
2022-12-02	14:32:16	1,000	29.26	SE	2022-12-05	9:08:08	353	29.63	SE
2022-12-02	14:32:22	1,000	29.27	SE	2022-12-05	9:08:08	1,000	29.63	SE
2022-12-02	14:32:22	1,000	29.28	SE	2022-12-05	9:08:13	150	29.63	SE
2022-12-02	14:32:23	1,000	29.27	SE	2022-12-05	9:08:32	300	29.63	SE
2022-12-02	14:32:33	1,000	29.26	SE	2022-12-05	9:08:37	182	29.63	SE
2022-12-02	14:32:33	1,000	29.26	SE	2022-12-05	9:08:57	450	29.64	SE
2022-12-02	14:32:37	1,000	29.26	SE	2022-12-05	9:09:00	5	29.64	SE
2022-12-02	14:32:37	1,000	29.26	SE	2022-12-05	9:09:25	377	29.63	SE
2022-12-02	14:32:38	1,000	29.25	SE	2022-12-05	9:09:59	100	29.64	SE
2022-12-02	14:32:38	1,000	29.25	SE	2022-12-05	9:14:49	472	29.69	SE
2022-12-02	14:33:25	1,000	29.18	SE	2022-12-05	9:16:41	1,000	29.69	SE
2022-12-02	14:33:26	1,000	29.18	SE	2022-12-05	9:21:46	1,000	29.64	SE
2022-12-02	14:33:26	1,000	29.16	SE	2022-12-05	9:21:46	1,000	29.64	SE
2022-12-02	14:33:35	1,000	29.16	SE	2022-12-05	9:21:54	1,440	29.64	SE
2022-12-02	14:33:41	1,000	29.25	SE	2022-12-05	9:21:56	1,000	29.65	SE
2022-12-02	14:33:41	1,000	29.25	SE	2022-12-05	9:21:56	1,587	29.65	SE
2022-12-02	14:33:50	1,000	29.25	SE	2022-12-05	9:22:13	1,000	29.63	SE
2022-12-02	14:33:50	1,000	29.25	SE	2022-12-05	9:23:03	1,048	29.60	SE
2022-12-02	14:33:53	1,000	29.27	SE	2022-12-05	9:23:03	1,000	29.60	SE
2022-12-02	14:33:53	1,000	29.27	SE	2022-12-05	9:24:45	600	29.62	SE
2022-12-02	14:33:55	1,000	29.28	SE	2022-12-05	9:24:58	971	29.61	SE
2022-12-02	14:34:00	1,000	29.28	SE	2022-12-05	9:24:58	550	29.61	SE
2022-12-02	14:34:01	1,000	29.28	SE	2022-12-05	9:26:31	1,000	29.59	SE
2022-12-02	14:35:36	1,000	29.29	SE	2022-12-05	9:26:31	1,000	29.59	SE
2022-12-02	14:35:36	1,000	29.29	SE	2022-12-05	9:26:32	1,000	29.58	SE
2022-12-02	14:35:37	1,000	29.28	SE	2022-12-05	9:26:32	70	29.58	SE
2022-12-02	14:37:01	1,000	29.31	SE	2022-12-05	9:26:32	28	29.58	SE
2022-12-02	14:37:02	1,000	29.31	SE	2022-12-05	9:26:54	1,000	29.59	SE
2022-12-02	14:42:39	1,000	29.33	SE	2022-12-05	9:28:09	74	29.59	SE
2022-12-02	14:42:40	1,000	29.33	SE	2022-12-05	9:28:09	1,000	29.59	SE
2022-12-02	14:45:18	5,000	29.34	SE	2022-12-05	9:28:40	494	29.59	SE
2022-12-02	14:45:18	5,000	29.35	SE	2022-12-05	9:29:20	976	29.58	SE
2022-12-02	15:52:25	1,578	29.53	SE	2022-12-05	9:30:14	1,000	29.56	SE
2022-12-02	15:52:27	377	29.53	SE	2022-12-05	9:30:23	1,000	29.56	SE
2022-12-02	15:52:27	1,578	29.53	SE	2022-12-05	9:32:25	5,000	29.57	SE
2022-12-02	15:52:27	1,035	29.53	SE	2022-12-05	9:34:35	514	29.57	SE
2022-12-02	15:52:30	3	29.53	SE	2022-12-05	10:01:24	343	29.56	SE
2022-12-02	15:52:37	952	29.54	SE	2022-12-05	10:05:37	1,000	29.57	SE
2022-12-02	15:52:37	49	29.54	SE	2022-12-05	10:05:57	1,000	29.57	SE
2022-12-02	16:05:16	1,542	29.63	SE	2022-12-05	10:05:57	1,000	29.57	SE
2022-12-02	16:05:16	377	29.63	SE	2022-12-05	10:06:54	1,000	29.55	SE
2022-12-02	16:05:25	512	29.63	SE	2022-12-05	10:06:54	1,587	29.55	SE
2022-12-02	16:05:25	504	29.63	SE	2022-12-05	10:06:54	1,000	29.55	SE
2022-12-02	16:05:26	515	29.63	SE	2022-12-05	10:10:15	342	29.48	SE
2022-12-02	16:05:27	520	29.63	SE	2022-12-05	10:24:48	1,000	29.55	SE

2022-12-05	10:24:48	1,000	29.55	SE	2022-12-05	15:06:11	1,000	29.59	SE
2022-12-05	10:33:26	1,000	29.55	SE	2022-12-05	15:12:55	539	29.57	SE
2022-12-05	10:33:26	1,000	29.55	SE	2022-12-05	15:12:55	1,000	29.57	SE
2022-12-05	10:33:33	1,000	29.55	SE	2022-12-05	15:12:55	377	29.57	SE
2022-12-05	10:33:33	1,000	29.55	SE	2022-12-05	15:14:38	1,000	29.58	SE
2022-12-05	10:33:33	1,587	29.55	SE	2022-12-05	15:36:18	716	29.59	SE
2022-12-05	10:59:32	1,000	29.58	SE	2022-12-05	15:46:19	497	29.57	SE
2022-12-05	10:59:32	1,000	29.58	SE	2022-12-05	15:46:19	1,587	29.57	SE
2022-12-05	11:05:51	5,000	29.58	SE	2022-12-05	15:47:09	1,000	29.58	SE
2022-12-05	11:05:52	1,789	29.57	SE	2022-12-05	15:47:36	1,000	29.58	SE
2022-12-05	11:27:44	1,587	29.57	SE	2022-12-05	15:47:36	1,000	29.58	SE
2022-12-05	11:27:44	1,000	29.57	SE	2022-12-05	15:55:30	1,000	29.58	SE
2022-12-05	11:27:46	1,000	29.57	SE	2022-12-05	15:55:31	477	29.58	SE
2022-12-05	11:30:22	1,587	29.58	SE	2022-12-05	15:55:32	1,000	29.58	SE
2022-12-05	11:55:26	1,587	29.64	SE	2022-12-05	15:58:40	1,000	29.57	SE
2022-12-05	11:55:26	351	29.64	SE	2022-12-05	15:58:41	508	29.57	SE
2022-12-05	12:29:07	1,000	29.64	SE	2022-12-05	16:00:01	377	29.52	SE
2022-12-05	12:29:11	1,587	29.65	SE	2022-12-05	16:00:02	240	29.50	SE
2022-12-05	12:46:23	1,000	29.67	SE	2022-12-05	16:00:02	377	29.50	SE
2022-12-05	12:46:23	1,000	29.67	SE	2022-12-05	16:00:02	1,080	29.50	SE
2022-12-05	13:03:00	1,000	29.66	SE	2022-12-05	16:00:33	519	29.48	SE
2022-12-05	13:03:00	490	29.66	SE	2022-12-05	16:00:53	1,000	29.49	SE
2022-12-05	13:03:03	1,587	29.67	SE	2022-12-05	16:00:53	1,000	29.49	SE
2022-12-05	13:08:24	360	29.64	SE	2022-12-05	16:01:10	1,000	29.49	SE
2022-12-05	13:08:24	550	29.64	SE	2022-12-05	16:01:11	1,000	29.49	SE
2022-12-05	13:41:35	738	29.60	SE	2022-12-05	16:01:33	1,000	29.51	SE
2022-12-05	13:41:37	1,000	29.61	SE	2022-12-05	16:02:03	1,000	29.52	SE
2022-12-05	13:41:37	1,587	29.61	SE	2022-12-05	16:02:05	1,000	29.52	SE
2022-12-05	13:58:17	647	29.62	SE	2022-12-05	16:03:26	5,000	29.53	SE
2022-12-05	13:58:17	1,000	29.62	SE	2022-12-05	16:03:54	1,670	29.53	SE
2022-12-05	14:14:52	414	29.58	SE	2022-12-05	16:05:08	636	29.55	SE
2022-12-05	14:14:52	1,000	29.58	SE	2022-12-05	16:05:24	487	29.55	SE
2022-12-05	14:14:59	391	29.58	SE	2022-12-05	16:05:25	1,000	29.55	SE
2022-12-05	14:17:22	1,000	29.58	SE	2022-12-05	16:05:26	510	29.55	SE
2022-12-05	14:17:22	557	29.58	SE	2022-12-05	16:07:50	1,000	29.54	SE
2022-12-05	14:30:00	1,000	29.58	SE	2022-12-05	16:07:50	377	29.54	SE
2022-12-05	14:30:08	1,452	29.59	SE	2022-12-05	16:07:50	1,000	29.54	SE
2022-12-05	14:30:08	1,000	29.59	SE	2022-12-05	16:15:03	1,000	29.55	SE
2022-12-05	14:46:41	460	29.59	SE	2022-12-05	16:15:03	210	29.55	SE
2022-12-05	14:46:41	394	29.59	SE	2022-12-05	16:15:03	1,587	29.55	SE
2022-12-05	14:46:50	1,000	29.59	SE	2022-12-05	16:23:08	1,000	29.54	SE
2022-12-05	14:46:53	415	29.59	SE	2022-12-05	16:23:08	1,000	29.54	SE
2022-12-05	14:47:28	404	29.59	SE	2022-12-05	16:24:19	1,587	29.55	SE
2022-12-05	15:01:12	493	29.57	SE	2022-12-05	16:24:19	1,000	29.55	SE
2022-12-05	15:02:00	422	29.56	SE	2022-12-05	16:30:45	1,587	29.52	SE
2022-12-05	15:04:36	571	29.60	SE	2022-12-05	16:30:45	1,000	29.52	SE
2022-12-05	15:04:49	1,000	29.60	SE	2022-12-05	16:30:45	1,587	29.52	SE
2022-12-05	15:06:08	407	29.59	SE	2022-12-05	16:30:45	1,000	29.52	SE
2022-12-05	15:06:08	1,000	29.59	SE	2022-12-05	16:30:49	1,000	29.54	SE

2022-12-05	16:30:49	1,000	29.54	SE	2022-12-06	10:32:01	1,000	29.43	SE
2022-12-05	16:30:50	1,587	29.53	SE	2022-12-06	10:32:01	356	29.43	SE
2022-12-05	16:31:20	1,000	29.53	SE	2022-12-06	10:33:36	1,587	29.42	SE
2022-12-05	16:35:00	1,000	29.55	SE	2022-12-06	10:33:36	1,000	29.42	SE
2022-12-05	16:35:00	1,587	29.55	SE	2022-12-06	10:33:56	1,000	29.42	SE
2022-12-05	16:36:36	1,587	29.56	SE	2022-12-06	10:33:56	1,000	29.42	SE
2022-12-05	16:36:36	1,000	29.56	SE	2022-12-06	10:34:36	1,013	29.42	SE
2022-12-05	16:44:06	950	29.60	SE	2022-12-06	10:38:55	622	29.44	SE
2022-12-06	9:05:57	1,000	29.54	SE	2022-12-06	10:41:08	482	29.43	SE
2022-12-06	9:06:09	1,000	29.56	SE	2022-12-06	10:42:18	365	29.44	SE
2022-12-06	9:06:14	1,000	29.56	SE	2022-12-06	10:42:18	1,000	29.44	SE
2022-12-06	9:06:14	1,000	29.56	SE	2022-12-06	10:42:18	675	29.44	SE
2022-12-06	9:08:52	1,000	29.53	SE	2022-12-06	10:42:18	1,000	29.44	SE
2022-12-06	9:08:55	1,000	29.53	SE	2022-12-06	10:42:18	377	29.44	SE
2022-12-06	9:08:56	1,000	29.53	SE	2022-12-06	10:42:19	1,000	29.44	SE
2022-12-06	9:13:04	1,000	29.49	SE	2022-12-06	10:55:36	482	29.45	SE
2022-12-06	9:13:09	1,000	29.52	SE	2022-12-06	10:59:04	117	29.41	SE
2022-12-06	9:14:01	1,000	29.50	SE	2022-12-06	10:59:06	1,000	29.42	SE
2022-12-06	9:14:11	1,000	29.50	SE	2022-12-06	10:59:09	92	29.42	SE
2022-12-06	9:14:12	1,000	29.50	SE	2022-12-06	10:59:09	805	29.42	SE
2022-12-06	9:31:46	405	29.40	SE	2022-12-06	11:06:49	1,000	29.39	SE
2022-12-06	9:32:01	294	29.42	SE	2022-12-06	11:06:49	1,000	29.39	SE
2022-12-06	9:32:08	1,000	29.43	SE	2022-12-06	11:06:49	385	29.39	SE
2022-12-06	9:32:08	1,000	29.43	SE	2022-12-06	11:06:54	1,000	29.39	SE
2022-12-06	9:35:23	1,000	29.43	SE	2022-12-06	11:06:54	350	29.39	SE
2022-12-06	9:35:25	1,000	29.44	SE	2022-12-06	11:06:54	6	29.39	SE
2022-12-06	9:35:25	1,587	29.44	SE	2022-12-06	11:07:58	921	29.39	SE
2022-12-06	9:36:11	231	29.42	SE	2022-12-06	11:24:25	443	29.34	SE
2022-12-06	9:37:41	89	29.41	SE	2022-12-06	11:24:25	1,000	29.34	SE
2022-12-06	9:37:41	95	29.41	SE	2022-12-06	11:24:29	577	29.35	SE
2022-12-06	9:39:35	1,884	29.43	SE	2022-12-06	11:24:29	1,000	29.35	SE
2022-12-06	9:44:06	850	29.51	SE	2022-12-06	11:28:20	925	29.33	SE
2022-12-06	9:46:24	460	29.50	SE	2022-12-06	11:28:20	1,000	29.33	SE
2022-12-06	9:57:29	141	29.51	SE	2022-12-06	11:28:36	1,000	29.33	SE
2022-12-06	9:57:33	81	29.51	SE	2022-12-06	11:28:36	1,000	29.33	SE
2022-12-06	9:57:40	482	29.51	SE	2022-12-06	11:31:41	1,000	29.29	SE
2022-12-06	9:57:40	1,000	29.51	SE	2022-12-06	11:31:41	812	29.29	SE
2022-12-06	10:09:20	1,587	29.47	SE	2022-12-06	11:48:15	3,535	29.32	SE
2022-12-06	10:09:20	1,000	29.47	SE	2022-12-06	11:58:07	2,147	29.34	SE
2022-12-06	10:09:46	1,000	29.47	SE	2022-12-06	12:11:29	1,000	29.32	SE
2022-12-06	10:09:59	1,587	29.47	SE	2022-12-06	12:11:29	1,587	29.32	SE
2022-12-06	10:09:59	369	29.47	SE	2022-12-06	12:11:29	1,000	29.32	SE
2022-12-06	10:10:15	1,000	29.47	SE	2022-12-06	12:28:00	24	29.34	SE
2022-12-06	10:12:29	1,000	29.46	SE	2022-12-06	12:28:00	338	29.34	SE
2022-12-06	10:12:29	1,000	29.46	SE	2022-12-06	12:28:00	1,000	29.34	SE
2022-12-06	10:29:34	460	29.44	SE	2022-12-06	12:28:11	1,000	29.35	SE
2022-12-06	10:29:34	1,000	29.44	SE	2022-12-06	12:28:19	1,587	29.36	SE
2022-12-06	10:30:01	88	29.44	SE	2022-12-06	12:28:19	1,000	29.36	SE
2022-12-06	10:31:30	410	29.43	SE	2022-12-06	12:36:23	1,100	29.39	SE

2022-12-06	12:45:03	1,223	29.38	SE	2022-12-06	15:44:04	1,000	29.40	SE
2022-12-06	12:45:03	1,000	29.38	SE	2022-12-06	15:44:04	1,587	29.40	SE
2022-12-06	12:51:32	697	29.38	SE	2022-12-06	15:44:09	517	29.39	SE
2022-12-06	12:56:55	1,100	29.39	SE	2022-12-06	15:44:09	1,587	29.39	SE
2022-12-06	13:01:36	307	29.42	SE	2022-12-06	15:44:09	1,000	29.39	SE
2022-12-06	13:02:40	490	29.43	SE	2022-12-06	15:44:09	490	29.39	SE
2022-12-06	13:02:40	500	29.43	SE	2022-12-06	15:46:48	1,000	29.31	SE
2022-12-06	13:03:30	59	29.44	SE	2022-12-06	15:46:48	918	29.31	SE
2022-12-06	13:03:30	1,000	29.44	SE	2022-12-06	15:46:48	1,587	29.31	SE
2022-12-06	13:04:33	1,000	29.44	SE	2022-12-06	15:46:48	1,000	29.31	SE
2022-12-06	13:21:13	92	29.45	SE	2022-12-06	15:46:48	830	29.31	SE
2022-12-06	13:21:14	1,131	29.46	SE	2022-12-06	16:01:40	1,587	29.33	SE
2022-12-06	13:21:14	1,000	29.46	SE	2022-12-06	16:01:40	1,000	29.33	SE
2022-12-06	13:25:43	1,200	29.47	SE	2022-12-06	16:01:40	1,587	29.33	SE
2022-12-06	13:33:53	1,100	29.48	SE	2022-12-06	16:01:40	1,000	29.33	SE
2022-12-06	13:38:13	1,000	29.48	SE	2022-12-06	16:01:40	903	29.33	SE
2022-12-06	13:38:14	1,000	29.48	SE	2022-12-06	16:01:42	1,000	29.33	SE
2022-12-06	13:40:27	1,000	29.49	SE	2022-12-06	16:02:44	1,587	29.32	SE
2022-12-06	13:40:27	1,158	29.49	SE	2022-12-06	16:02:44	1,000	29.32	SE
2022-12-06	13:49:53	888	29.47	SE	2022-12-06	16:06:07	1,037	29.29	SE
2022-12-06	13:57:42	1,587	29.48	SE	2022-12-06	16:06:38	1,587	29.28	SE
2022-12-06	13:57:42	1,000	29.48	SE	2022-12-06	16:06:38	1,587	29.28	SE
2022-12-06	14:04:42	51	29.45	SE	2022-12-06	16:06:38	1,587	29.28	SE
2022-12-06	14:04:42	48	29.45	SE	2022-12-06	16:06:38	473	29.28	SE
2022-12-06	14:04:42	1,000	29.45	SE	2022-12-06	16:11:43	1,587	29.28	SE
2022-12-06	14:04:43	316	29.45	SE	2022-12-06	16:11:43	1,000	29.28	SE
2022-12-06	14:05:00	1,587	29.45	SE	2022-12-06	16:11:48	1,000	29.28	SE
2022-12-06	14:05:00	416	29.45	SE	2022-12-06	16:11:49	1,000	29.28	SE
2022-12-06	14:13:43	1,587	29.42	SE	2022-12-06	16:11:49	1,000	29.28	SE
2022-12-06	14:13:43	9	29.42	SE	2022-12-06	16:13:56	1,000	29.28	SE
2022-12-06	14:13:45	1,000	29.42	SE	2022-12-06	16:13:56	1,587	29.28	SE
2022-12-06	14:15:03	1,400	29.42	SE	2022-12-06	16:16:48	1,037	29.28	SE
2022-12-06	14:15:03	1,000	29.42	SE	2022-12-06	16:16:48	1,000	29.28	SE
2022-12-06	14:51:56	638	29.42	SE	2022-12-06	16:16:48	1,000	29.28	SE
2022-12-06	14:52:00	75	29.43	SE	2022-12-06	16:19:53	1,000	29.29	SE
2022-12-06	15:30:58	39	29.43	SE	2022-12-06	16:19:53	1,271	29.29	SE
2022-12-06	15:30:58	1,000	29.43	SE	2022-12-06	16:20:57	15	29.31	SE
2022-12-06	15:30:58	626	29.43	SE	2022-12-06	16:20:57	1,000	29.31	SE
2022-12-06	15:31:03	1,000	29.43	SE	2022-12-06	16:21:01	1,587	29.32	SE
2022-12-06	15:42:59	1,000	29.41	SE	2022-12-06	16:21:02	1,521	29.32	SE
2022-12-06	15:42:59	1,000	29.41	SE	2022-12-06	16:22:28	1,587	29.28	SE
2022-12-06	15:43:00	1,587	29.40	SE	2022-12-06	16:22:28	1,000	29.28	SE
2022-12-06	15:43:10	615	29.39	SE	2022-12-06	16:22:28	1,000	29.28	SE
2022-12-06	15:43:14	681	29.39	SE	2022-12-06	16:24:10	1,000	29.27	SE
2022-12-06	15:43:22	1,000	29.40	SE	2022-12-06	16:28:31	1,000	29.28	SE
2022-12-06	15:43:22	1,000	29.40	SE	2022-12-06	16:28:31	491	29.28	SE
2022-12-06	15:43:22	1,587	29.40	SE	2022-12-06	16:28:31	1,000	29.28	SE
2022-12-06	15:44:04	1,000	29.40	SE	2022-12-06	16:29:02	1,037	29.27	SE
2022-12-06	15:44:04	830	29.39	SE	2022-12-06	16:34:24	1,587	29.24	SE

2022-12-06	16:34:24	1,000	29.24	SE	2022-12-07	10:28:36	1,000	29.17	SE
2022-12-06	16:34:24	1,000	29.24	SE	2022-12-07	10:28:36	372	29.17	SE
2022-12-06	16:35:51	1,000	29.23	SE	2022-12-07	10:28:38	1,161	29.17	SE
2022-12-06	16:35:54	221	29.24	SE	2022-12-07	10:29:48	1,000	29.16	SE
2022-12-06	16:35:54	1,587	29.24	SE	2022-12-07	10:29:48	47	29.16	SE
2022-12-06	16:35:54	1,000	29.24	SE	2022-12-07	10:29:48	1,000	29.16	SE
2022-12-06	16:36:09	479	29.23	SE	2022-12-07	10:43:15	1,336	29.08	SE
2022-12-06	16:36:10	1,587	29.23	SE	2022-12-07	10:43:15	1,000	29.08	SE
2022-12-06	16:36:10	521	29.23	SE	2022-12-07	10:52:58	1,587	29.08	SE
2022-12-06	16:36:10	36	29.23	SE	2022-12-07	10:52:58	1,000	29.08	SE
2022-12-06	16:36:10	377	29.23	SE	2022-12-07	10:53:23	1,000	29.08	SE
2022-12-07	9:24:05	1,587	29.11	SE	2022-12-07	10:53:25	23	29.08	SE
2022-12-07	9:24:05	1,000	29.11	SE	2022-12-07	10:53:37	1,000	29.09	SE
2022-12-07	9:25:46	1,587	29.10	SE	2022-12-07	10:55:10	601	29.08	SE
2022-12-07	9:25:46	1,000	29.10	SE	2022-12-07	10:55:58	1,000	29.09	SE
2022-12-07	9:25:46	400	29.10	SE	2022-12-07	10:56:16	1,000	29.10	SE
2022-12-07	9:26:14	800	29.08	SE	2022-12-07	10:56:16	1,012	29.10	SE
2022-12-07	9:26:45	1,000	29.08	SE	2022-12-07	11:03:02	2,029	29.11	SE
2022-12-07	9:26:45	405	29.08	SE	2022-12-07	11:29:53	1,000	28.99	SE
2022-12-07	9:26:45	1,000	29.08	SE	2022-12-07	11:29:55	1,587	29.00	SE
2022-12-07	9:27:14	1,587	29.09	SE	2022-12-07	11:29:55	1,000	29.00	SE
2022-12-07	9:27:14	1,000	29.09	SE	2022-12-07	11:31:59	1,150	28.98	SE
2022-12-07	9:27:52	1,000	29.09	SE	2022-12-07	11:31:59	1,000	28.98	SE
2022-12-07	9:29:13	1,355	29.13	SE	2022-12-07	11:32:36	1,000	28.99	SE
2022-12-07	9:29:13	1,000	29.13	SE	2022-12-07	11:32:56	1,000	28.99	SE
2022-12-07	9:29:13	1,587	29.13	SE	2022-12-07	11:32:59	1,000	28.99	SE
2022-12-07	9:34:39	1,587	29.11	SE	2022-12-07	11:33:28	73	29.00	SE
2022-12-07	9:34:39	1,000	29.11	SE	2022-12-07	11:33:28	1,000	29.00	SE
2022-12-07	9:40:30	634	29.11	SE	2022-12-07	11:33:31	1,000	29.00	SE
2022-12-07	9:40:30	634	29.11	SE	2022-12-07	11:33:34	435	28.99	SE
2022-12-07	9:40:31	1,000	29.11	SE	2022-12-07	11:33:34	1,000	28.99	SE
2022-12-07	9:54:09	1,000	29.13	SE	2022-12-07	11:33:34	21	28.99	SE
2022-12-07	9:54:33	630	29.14	SE	2022-12-07	11:33:35	37	28.99	SE
2022-12-07	9:54:35	1,000	29.15	SE	2022-12-07	11:35:01	1,376	29.01	SE
2022-12-07	9:54:35	1,295	29.15	SE	2022-12-07	11:36:31	361	29.02	SE
2022-12-07	10:01:39	626	29.14	SE	2022-12-07	11:43:40	364	29.00	SE
2022-12-07	10:08:11	1,000	29.16	SE	2022-12-07	11:43:43	1,000	29.00	SE
2022-12-07	10:08:11	362	29.16	SE	2022-12-07	11:43:43	1,000	29.00	SE
2022-12-07	10:08:15	1,000	29.17	SE	2022-12-07	11:44:36	1,587	29.00	SE
2022-12-07	10:08:39	19	29.16	SE	2022-12-07	12:10:20	476	29.02	SE
2022-12-07	10:09:14	377	29.16	SE	2022-12-07	12:11:26	1,000	29.02	SE
2022-12-07	10:09:14	1,000	29.16	SE	2022-12-07	12:11:26	1,000	29.02	SE
2022-12-07	10:09:19	1,000	29.16	SE	2022-12-07	12:12:02	1,587	29.02	SE
2022-12-07	10:10:03	1,099	29.17	SE	2022-12-07	12:28:13	1,300	29.04	SE
2022-12-07	10:10:05	605	29.17	SE	2022-12-07	12:31:38	595	29.04	SE
2022-12-07	10:16:54	900	29.18	SE	2022-12-07	12:36:06	1,000	29.09	SE
2022-12-07	10:18:50	1,000	29.20	SE	2022-12-07	12:36:07	1,000	29.09	SE
2022-12-07	10:18:57	1,587	29.20	SE	2022-12-07	12:49:39	841	29.04	SE
2022-12-07	10:27:01	68	29.17	SE	2022-12-07	12:49:39	1,000	29.04	SE

2022-12-07	13:03:04	1,000	29.00	SE	2022-12-07	15:52:50	581	29.06	SE
2022-12-07	13:03:04	30	29.00	SE	2022-12-07	15:52:50	1,000	29.06	SE
2022-12-07	13:03:04	100	29.00	SE	2022-12-07	15:53:29	1,000	29.05	SE
2022-12-07	13:03:04	1,000	29.00	SE	2022-12-07	15:53:29	1,469	29.05	SE
2022-12-07	13:03:49	1,650	29.01	SE	2022-12-07	15:53:29	1,000	29.05	SE
2022-12-07	13:17:42	799	28.97	SE	2022-12-07	15:53:34	377	29.05	SE
2022-12-07	13:22:05	419	28.93	SE	2022-12-07	15:55:20	1,000	29.05	SE
2022-12-07	13:22:05	652	28.93	SE	2022-12-07	15:55:27	529	29.05	SE
2022-12-07	13:25:46	734	28.94	SE	2022-12-07	15:55:27	1,000	29.05	SE
2022-12-07	13:30:39	1,000	28.96	SE	2022-12-07	16:12:30	377	29.05	SE
2022-12-07	13:30:47	490	28.96	SE	2022-12-07	16:12:30	1,000	29.05	SE
2022-12-07	13:30:47	420	28.96	SE	2022-12-07	16:12:31	682	29.05	SE
2022-12-07	13:30:47	1,000	28.96	SE	2022-12-07	16:24:16	815	29.11	SE
2022-12-07	13:31:12	1,000	28.96	SE	2022-12-07	16:24:16	1,000	29.11	SE
2022-12-07	13:31:12	1,006	28.96	SE	2022-12-07	16:25:52	772	29.11	SE
2022-12-07	13:44:41	102	28.96	SE	2022-12-07	16:25:52	398	29.11	SE
2022-12-07	13:44:52	1,000	28.96	SE					
2022-12-07	13:44:52	359	28.96	SE					
2022-12-07	13:44:55	356	28.96	SE					
2022-12-07	13:50:43	912	28.98	SE					
2022-12-07	13:54:59	344	28.96	SE					
2022-12-07	13:58:23	352	28.97	SE					
2022-12-07	13:58:23	1,000	28.97	SE					
2022-12-07	13:59:12	517	28.97	SE					
2022-12-07	13:59:12	1,000	28.97	SE					
2022-12-07	14:12:40	413	28.99	SE					
2022-12-07	14:12:40	1,000	28.99	SE					
2022-12-07	14:12:46	409	28.99	SE					
2022-12-07	14:24:12	233	29.03	SE					
2022-12-07	14:26:12	1,000	29.04	SE					
2022-12-07	14:26:29	85	29.04	SE					
2022-12-07	14:26:37	1,200	29.04	SE					
2022-12-07	14:26:44	402	29.04	SE					
2022-12-07	14:26:46	1,000	29.04	SE					
2022-12-07	14:26:46	423	29.04	SE					
2022-12-07	14:41:28	808	29.04	SE					
2022-12-07	14:41:28	1,000	29.04	SE					
2022-12-07	14:51:50	4,000	29.09	SE					
2022-12-07	15:08:40	950	29.11	SE					
2022-12-07	15:18:40	1,587	29.10	SE					
2022-12-07	15:18:40	1,000	29.10	SE					
2022-12-07	15:30:01	54	29.08	SE					
2022-12-07	15:32:05	1,587	29.10	SE					
2022-12-07	15:32:05	1,000	29.10	SE					
2022-12-07	15:32:07	1,000	29.10	SE					
2022-12-07	15:36:01	1,091	29.17	SE					
2022-12-07	15:45:30	827	29.17	SE					
2022-12-07	15:45:30	1,000	29.17	SE					
2022-12-07	15:52:50	1,000	29.06	SE					