



Open Education Platform
for Management Schools

Publication type: Teaching Resource

Testing for Herd Behavior in the Swiss Stock Market

Version Nr. 1, 4 December 2019

Galia Kondova

Nicola Kreutzmann

Published on: www.oepms.org

doi: 10.25938/oepms.174



Open Education Platform
for Management Schools

Testing for Herd Behavior in the Swiss Stock Market

Version Nr. 1, 4 December 2019

Galia Kondova

Nicola Kreutzmann

University of Applied Sciences and Arts Northwestern Switzerland
FHNW

Publication type: Exercises

Affiliations: University of Applied Sciences and Arts Northwestern
Switzerland FHNW

Keywords: Behavioral finance; herd behavior; regression analysis;
SMI

Academic Level: Bachelor Level

Licence:



This publication is licensed by a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

Recommended Citation:

Kondova, G. & Kreutzmann, N. (2019). Testing for Herd Behavior in the Swiss Stock Market. *Open Education Platform*. Doi: 10.25938/oepms.174



Open Education Platform
for Management Schools

Teaching Notes:

Testing for Herd Behavior in the Swiss Stock Market

Galia Kondova^a and Nicola Kreutzmann^b

^a FHNW, Peter Merian Str. 86, 4002 Basel, galia.kondova@fhnw.ch

^b FHNW, Bahnhofstrasse 6, 5210 Windisch, nicola.kreutzmann@fhnw.ch

Abstract. This exercise is constructed for BA students in Business Administration/ International Management to practice the application of empirical methods such as a regression analysis in testing finance theories such as the behavior finance theory. In particular, the exercise tests for the existence of herd behavior by applying the regression model of Chang et al. (2000) in the case of the Swiss stock market in the global financial crisis period January 2007 – June 2010 as well as recently between January 2016 – June 2019. Publicly available daily stock price data and the Stata software were used.

Table of Contents

1. Teaching Notes.....	2
1.1. What are the learning objectives addressed by the teaching material?	2
1.2. Which target group is this teaching material aimed at (e.g. BA/MA/FE)?	2
1.3. What teaching methods were used with this material?.....	2
1.4. How often was it used?	2
1.5. What was the experience of using it (self and external evaluation)?	2
1.6. Should special attention be given to particular aspects when using the teaching material?.....	2
2. The Exercise Task “Testing for Herd Behavior”.....	4
3. Introduction to the Herd Behavior Concept	4
4. Empirical Analysis/Tests of Herd Behavior.....	4
5. Methodology on Testing for Herd Behavior	5
6. Data	5
7. Results and Interpretation.....	6
References	8
Attachment A: Data Set in Excel.....	9
Attachment B: Stata commands.....	9

1. Teaching Notes

1.1. What are the learning objectives addressed by the teaching material?

The learning objective is to apply an empirical method (already studied in the *Econometrics* course taught in the BA Business Administration/International Management Program) to test the herding concept within the behavior finance theory studied in Corporate Finance.

1.2. Which target group is this teaching material aimed at (e.g. BA/MA/FE)?

The target group are BA students in Business Administration/International Management that have already completed the *Econometrics* and *Corporate Finance* classes.

1.3. What teaching methods were used with this material?

An exercise is conducted by testing a herding behavior model by applying a regression analysis.

1.4. How often was it used?

It was taught in the Spring 2019 semester in the Context Course "*Financial Markets and Trends*" in the BA Business Administration/ International Management Program at the FHNW.

1.5. What was the experience of using it (self and external evaluation)?

It was considered as a most useful exercise by students intending to write a BA Thesis based on an empirical analysis in the area of finance.

The success of the exercise pre-requires a good knowledge of regression analysis and the Stata software.

1.6. Should special attention be given to particular aspects when using the teaching material?

Availability of the software program Stata.

Exercise:

Testing for Herd Behavior in the Swiss Stock Market

Galia Kondova^a and Nicola Kreutzmann^b

a FHNW, Peter Merian Str. 86, 4002 Basel, galia.kondova@fhnw.ch

b FHNW, Bahnhofstrasse 6, 5210 Windisch, nicola.kreutzmann@fhnw.ch

Abstract. This exercise is constructed for BA students in Business Administration/ International Management to practice the application of empirical methods such as a regression analysis in testing finance theories such as the behavior finance theory. In particular, the exercise tests for the existence of herd behavior by applying the regression model of Chang et al. (2000) in the case of the Swiss stock market in the global financial crisis period January 2007 – June 2010 as well as recently between January 2016 – June 2019. Publicly available daily stock price data and the Stata software were used.

2. The Exercise Task “Testing for Herd Behavior”

Apply the model of Chang et al. (2000) explained in the Methodology part to test the existence of herd behavior in the Swiss Stock Market. Use the daily closing prices for the 19 large-caps in the Swiss Market Index 20 (SMI 20) and the SMI 20 values in the two time periods January 2007 – June 2010 and January 2016 – June 2019 in Attachment A and described in the Data part. Use Stata's *OLS estimator* from your econometrics classes. Interpret the results as per the guidelines in the Methodology part.

3. Introduction to the Herd Behavior Concept

The concept of herd behavior belongs to the behavior finance theory promoted by academic works like the one of Thaler (2005). Herding “occurs when groups of investors emulate other successful investors and chase asset classes that are doing well” (Ehrhardt & Brigham, 2017).

Herd behavior of investors is generally considered to be irrational investor behavior. In case of herding, investors do not make their investment decisions based on existing models or empirical evidence but rather mimic the actions of the crowd. However, some studies have shown that irrational herding behavior is rather characteristic of individual investors, while institutional herding is rational and information-based (Lin et al., 2013). Furthermore, herding has been particularly observed in periods of market extreme fluctuations (Christie and Huang, 1995).

4. Empirical Analysis/Tests of Herd Behavior

The herd behavior is studied by conducting empirical studies exploring the relationship between individual investor behavior characteristics and the overall market behavior. For example, Christie and Huang (1995) tested herding by using cross sectional standard deviation (CSSD) as a measure of average proximity of individual asset returns to the realized market average assuming a linear relationship between the two variables. They found evidence of herding behavior in periods of market extreme fluctuations.

Other empirical testing models include Lin et al. (2013), Olsen (1996), Lao and Singh (2011), Hwang und Salmon (2001), Froot et al. (1992).

Chang et al. (2000) extended the work of Christie and Huang and established a non-linear relationship between the level of equity return dispersions and the overall market return. Cross-sectional absolute deviations (CSAD) were taken as a measure for dispersion. The authors examined the presence of herding in both developing and developed countries. They found that herding was not present in developed economies but rather present in emerging economies.

The rationale of the Chang (2000) model is that when investors herd, they tend to follow the market trend and thus the return dispersion decreases or increases at a lower rate. Chang et al. (2000) suggested the cross sectional absolute deviation (CSAD) as the measure of return dispersion in the market to test for herd behavior.

Additional studies that have applied the Chang (2000) model include Malik and Elahi (2014), Ramadan (2015), and Caparrelli et al. (2004).

5. Methodology on Testing for Herd Behavior

Cross sectional absolute deviation (CSAD) is constructed as the measure of return dispersion between individual stock returns and the market returns (see Equation (1)).

CSAD is then regressed on the market returns and the square of the market returns (see Equation (2)).

The intuition behind the non-linear regression model of Chang et al. (2000) is that “if market participants tend to follow aggregate market behavior and ignore their own priors during periods of large average price movements, then the linear and increasing relation between dispersion and market return will no longer hold” (p. 1655).

A statistically significant negative value of the coefficient y_2 in Equation (2) would indicate the presence of herd behavior. The authors clarify that “if during periods of relatively large price swings, market participants do indeed herd around indicators such as the average consensus of all market constituents, a non-linear relation between CSAD and the average market return would result. The non-linearity would be captured by a negative and statistically significant y_2 coefficient” (Chang et al., 2000, p. 1657).

The basic equations for the calculation of the CSAD (1) and the herding regression (2) are:

$$CSAD_t = \frac{1}{N} \sum_{i=1}^N |R_{i,t} - R_{m,t}| \quad (1)$$

$$CSAD_t = y_0 + y_1 |R_{m,t}| + y_2 R_{m,t}^2 + \varepsilon_t \quad (2)$$

$R_{i,t}$ denotes the individual stock return at time t and $R_{m,t}$ the return of the market at time t.

$R_{i,t}$ and $R_{m,t}$ are calculated as simple returns where $R_{i,t} = 100 * (P_{i,t} / P_{i,t-1})$ and $R_{m,t} = 100 * (P_{m,t} / P_{m,t-1})$.

6. Data

The data used for the analysis contains the daily closing prices of the 19 large-caps included in the Swiss Market Index 20 (SMI 20) and the closing values of the index over two time periods capturing the global financial crisis period between January 2007 and June 2010 as well as the last years of January 2016 to June 2019. The SMI 20 is considered an appropriate benchmark since the introduction of capped weighting in 2017 to address the fact that the top three constituents (Nestlé, Roche, Novartis) account for more than 60% of the index capitalization. Currently, the weight of any constituent in the SMI index cannot exceed 18%.

The publicly available data was retrieved from the website www.finanzen.ch and is provided in Attachment A.

Missing dates are due to the fact of closed stock exchanges on the weekend and official holidays.

7. Results and Interpretation

Figure 1 and 2 below present the results of the OLS regression ran with Stata on the two time periods.

Source	SS	df	MS	Number of obs	=	16,465
Model	1956.62733	2	978.313665	F(2, 16462)	=	32.90
Residual	489530.342	16,462	29.7369908	Prob > F	=	0.0000
				R-squared	=	0.0040
				Adj R-squared	=	0.0039
Total	491486.97	16,464	29.8522212	Root MSE	=	5.4532

csad	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
absrm	.270581	.086783	3.12	0.002	.100477	.440685
rm2	.0112798	.0159353	0.71	0.479	-.0199551	.0425147
_cons	1.224302	.0752998	16.26	0.000	1.076706	1.371898

Figure 1: Results on OLS regression from Stata for the time period January 2007 – June 2010

Source	SS	df	MS	Number of obs	=	16,606
Model	150.238818	2	75.1194092	F(2, 16603)	=	129.61
Residual	9622.84636	16,603	.579584796	Prob > F	=	0.0000
				R-squared	=	0.0154
				Adj R-squared	=	0.0153
Total	9773.08518	16,605	.588562793	Root MSE	=	.7613

csad	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
absrm	.1134779	.0273435	4.15	0.000	.0598817	.1670741
rm2	.0255185	.0116662	2.19	0.029	.0026515	.0483856
_cons	.6072881	.0115489	52.58	0.000	.5846511	.6299251

Figure 2: Results on OLS regression from Stata for the time period January 2016 – June 2019

In both studied time periods, 2007 - 2010 and 2016 - 2019 the coefficient estimates in front of the variable of interest R_m^2 is positive and close to zero (see Fig. 1 and Fig.2). Therefore, it could be concluded, that in both time periods there is no evidence of herding behavior. This evidence supports the findings of Chang et al. (2000) that in developed countries like Switzerland, herding could not be proven. However, the coefficient estimate in front of R_m^2 in the period 2016 – 2019 is slightly larger than the one in the period 2007 – 2010. This could imply that, even though there is no clear evidence of herding behavior in both periods, the tendency towards herding behavior is stronger in phases of distressed markets, such as during the global financial crisis in 2007-2008 and shortly afterwards.

However, the p-value of the estimated coefficient in front of R_m^2 in the first time period is 0.479, and thus larger than 0.05 (see Fig. 1). Therefore, the hypothesis that the coefficient in front of R_m^2 is different from 0, cannot be rejected, and thus the result is not statistically significant. The corresponding t-value of R_m^2 for the first time period is 0.71, which is below the minimum required value of 1.96 based on the 95% confidence interval, confirming the statistical insignificance of R_m^2 in the first time period. Since,

however, this is the only limitation in the regression results for the first time period, and the absolute market return variable (*absrm*) is statistically significant, the results can still be used for the overall analysis. The coefficient in front of R_m^2 in the second time period 2016 – 2019 has a p-value of 0.029 and thus is statistically significant see Fig. 2).

Both R-squared values of 0.0040 for time period one and 0.0154 for period two are rather low, which means that a large part of the variance in the predicted variable *CSAD* could not be explained by the two variables *absrm* and R_m^2 (see Fig. 1 and Fig. 2). This limitation points towards the existence of further influential factors that are not covered by the chosen model. Still the higher R-squared for the second period as well as the statistically significant coefficient y_2 from the second regression indicate that the chosen model has a stronger explanatory power for the second time period 2016 – 2019 as compared to the regression results for the first period 2007 – 2010.

References

- Bikhchandani, S., & Sharma, S. (2001). Herd Behavior in Financial Markets. *IMF Staff Papers*, 47.
- Caparrelli, F., D’Arcangelis, D., & Cassuto, A. (2004). Herding in the Italian stock market: a case of behavioral finance. *Journal of Behavioral Finance*, 5, 222–230.
- Chang, E. C., Cheng, J. W., & Khorana, A. (2000). An examination of herd behavior in equity markets: An international perspective. *Journal of Banking & Finance*, 24(10), 1651–1679. [https://doi.org/10.1016/S0378-4266\(99\)00096-5](https://doi.org/10.1016/S0378-4266(99)00096-5)
- Christie, W., & Huang, R. (1995). Following the Pied-Piper: do individual returns herd around the market? *Financial Analyst Journal*, 31–37.
- Ehrhardt, M., & Brigham, E. (2017). *Corporate Finance: a Focused Approach*. Cengage Learning Press.
- Froot, K.A., Scharfstein, D.S., Stein, J.C. (1992). Herd on the street: Informational inefficiencies in a market with short-term speculation. *Journal of Finance*, 47, 1461-1484.
- Hwang, S., & Salmon, M. (2001). *A new measure of herding and empirical evidence for the US, UK, and South Korean stock markets*.
- Lao, P., & Singh, H. (2011). Herding Behavior in the Chinese and Indian Stock Markets. *Journal of Asian Economics*, 22, 495–528.
- Lin, W., Tsai, S., & Lung, P. (2013). Investors’ Herd Behavior: Rational or Irrational? *Asia-Pacific Journal of Financial Studies*, 42(5), 755–776.
- Olsen, A. (1996). Implications of herding behavior for earnings estimation, risk assessment, and stock returns. *Financial Analyst Journal*, 52, 37–41.
- Ramadan, I. Z. (2015). Cross-Sectional Absolute Deviation Approach for Testing the Herd Behavior Theory: The Case of the ASE Index. *International Journal of Economics and Finance*, 7(3), 188–193. <https://doi.org/10.5539/ijef.v7n3p188>
- Thaler, R. (2005). *Advances in behavioral finance* (Vol 2). Princeton University Press.
- Ullah Malik, S., & Ather Elahi, M. (2014). *Analysis of Herd Behavior Using Quantile Regression: Evidence from Karachi Stock Exchange (KSE)* (MPRA Paper No. 55322).

Attachment A: Data Set in Excel

Attachement B: Stata commands

Attachment A

date	abb	adecco	cs	geberit	givaudan	juliusbaer	lafargeholc
02.04.2019		19.08	54.18	11.98	409.1 2'482.00	41.37	50.28
01.04.2019		18.86	53.56	11.71	408.7 2'501.00	40.67	49.75
29.03.2019		18.6	52.3	11.53	406 2'564.00	39.48	49.37
28.03.2019		18.52	51.5	11.45	404 2'546.00	39.98	49.01
27.03.2019		18.55	51.38	11.39	404.5 2'570.00	40.5	49.05
26.03.2019		18.51	51.58	11.4	404.9 2'554.00	40.75	49.27
25.03.2019		18.43	51.24	11.42	402.6 2'521.00	40.97	48.49
22.03.2019		19.12	53.66	11.86	417.5 2'568.00	42.37	50.78
21.03.2019		19.27	53.06	11.87	414.1 2'533.00	42.45	50.84
20.03.2019		19.6	54.1	12.42	418.2 2'541.00	44.45	51.24
19.03.2019		19.47	53.68	12.4	416 2'565.00	44.5	51.02
18.03.2019		19.29	53.46	12.13	416.2 2'566.00	43.76	51.02
15.03.2019		19.29	53.26	12.13	414.3 2'568.00	43.99	51.02
14.03.2019		19.21	52.52	12.03	402.8 2'538.00	43.5	50.2
13.03.2019		19.08	52.06	11.81	398.3 2'520.00	42.8	49.8
12.03.2019		19.25	52.3	12.03	409 2'531.00	43.02	49.9
11.03.2019		18.98	51.48	11.9	404 2'481.00	41.97	48.58
08.03.2019		18.99	51.62	11.9	402 2'522.00	42.58	48.25
07.03.2019		19.44	52.62	12.25	404.2 2'514.00	44.35	49
06.03.2019		19.46	52.56	12.23	401.2 2'508.00	44	49.51
05.03.2019		19.4	52.82	12.36	405.1 2'506.00	43.99	50.3
04.03.2019		19.67	53.02	12.47	407 2'515.00	44.46	49.94
01.03.2019		19.76	52.2	12.4	400.8 2'520.00	44	49.8
28.02.2019		20.45	51.02	12.3	399.7 2'490.00	42.84	49.48
27.02.2019		20.38	53.72	12.11	405 2'501.00	41.85	49.57
26.02.2019		20.33	53.5	12.04	403.9 2'485.00	41.53	49.02
25.02.2019		20.3	53.52	12.02	405.9 2'483.00	40.8	49.08
22.02.2019		20.24	53	11.92	401.9 2'466.00	39.88	48
21.02.2019		20.14	53.14	12	399 2'459.00	40.5	48.99
20.02.2019		19.77	52.4	11.92	394.7 2'441.00	40.25	48.42
19.02.2019		19.7	52.72	11.94	394.5 2'448.00	40.6	48
18.02.2019		19.82	53.1	11.8	396 2'451.00	40.83	47.82
15.02.2019		19.48	52.06	11.53	392.2 2'461.00	39.53	47.21
14.02.2019		19.46	52.8	12.29	393.2 2'475.00	41.19	47.8
13.02.2019		19.22	52.42	12.04	392 2'456.00	41.14	47.71
12.02.2019		19.13	51.06	11.81	392.5 2'445.00	40.82	47.3
11.02.2019		19.18	50.54	11.74	386 2'439.00	39.9	47.38
08.02.2019		19.29	50.52	11.8	388.6 2'412.00	40.31	47.43
07.02.2019		19.59	51.16	12.09	395.5 2'433.00	40.13	48.58
06.02.2019		19.59	51.32	12.04	398.4 2'455.00	39.72	48.59
05.02.2019		19.31	50.5	11.95	390.7 2'410.00	37.92	47.41
04.02.2019		19.16	50.02	11.87	386.7 2'394.00	38.05	47.25
01.02.2019		19.06	49.7	12.1	389 2'435.00	40.2	46.97
31.01.2019		19.14	51.02	12.39	386.1 2'441.00	40.98	46.4
30.01.2019		19.05	51.04	12.4	387.8 2'440.00	40.75	46.5
29.01.2019		18.99	50.22	12.2	386.2 2'352.00	40.26	45.89
28.01.2019		19.11	50.12	12.37	385.8 2'350.00	40.8	46.01
25.01.2019		19.05	50.42	12.33	387.7 2'360.00	40.71	45.38
24.01.2019		18.98	50.48	12.29	383.4 2'466.00	40.18	45.01

23.01.2019	19.12	50.72	12.15	382	2'441.00	39.88	46.75
22.01.2019	19.29	50.5	11.98	392.8	2'460.00	39.99	46.53
21.01.2019	19.28	50.5	12.23	384.7	2'443.00	40.97	47.53
18.01.2019	19.09	50.62	12.18	379.4	2'413.00	40.33	46.95
17.01.2019	18.87	50	12.01	374.9	2'377.00	40.2	45.73
16.01.2019	19.15	49.67	11.75	361.6	2'359.00	38.96	45.3
15.01.2019	19.13	49.8	11.81	360.5	2'328.00	39	45.25
14.01.2019	19	49.25	11.62	365.3	2'318.00	38.44	44.04
11.01.2019	19.4	49.5	11.61	372	2'341.00	38.33	45.39
10.01.2019	19.12	48.2	11.25	370.2	2'318.00	36.78	42.9
09.01.2019	19.24	48	11.4	370.9	2'321.00	37.27	42.5
08.01.2019	19.3	46.89	11.25	373.5	2'304.00	37.06	41.49
07.01.2019	19.11	46.09	11.34	385	2'338.00	36.99	42.2
04.01.2019	18.57	43.75	10.91	377.5	2'298.00	35.36	40.1
03.01.2019	18.56	44.39	10.73	382	2'295.00	34.79	40.3
28.12.2018	18.38	45.03	10.55	372	2'260.00	34.33	39.85
27.12.2018	19.09	46.49	10.95	382	2'312.00	35.49	41.06
21.12.2018	18.7	45.4	10.47	373.8	2'322.00	34.5	40
20.12.2018	18.9	44.9	10.63	372	2'303.00	35.23	40.56
19.12.2018	19.34	45	10.92	375	2'310.00	35.84	41.39
18.12.2018	19.16	44.52	10.93	373.8	2'321.00	35.84	41.08
17.12.2018	20.1	45.65	11.15	378	2'348.00	37	41.8
14.12.2018	19.53	45.81	11.2	378.8	2'349.00	37.54	42.11
13.12.2018	19.89	46.48	11.45	387.5	2'371.00	38.35	43.29
12.12.2018	18.93	45.82	11.06	380.7	2'391.00	37.13	42.47
11.12.2018	18.92	45.69	10.98	377.4	2'358.00	36.33	41.4
10.12.2018	18.89	46.16	11.05	376.2	2'375.00	36.8	41.5
07.12.2018	19.04	46.51	11.2	379.7	2'387.00	38.1	42.1
06.12.2018	19.45	47.56	11.54	381.5	2'421.00	39.29	42.98
05.12.2018	19.87	49.02	11.71	383.2	2'437.00	39.71	44.2
04.12.2018	20.22	50.14	12.04	392.5	2'437.00	40.75	45.92
03.12.2018	20.6	50.8	12.08	397.5	2'497.00	41.3	46.87
30.11.2018	20.28	49.57	11.92	392.8	2'478.00	40.85	45.58
29.11.2018	20.25	49.52	11.93	386.1	2'441.00	41.02	45.29
28.11.2018	20.1	48.84	12	385.4	2'444.00	40.99	46.1
27.11.2018	20.18	49.04	12.04	385	2'424.00	41.69	46.19
26.11.2018	20	48.33	11.95	385	2'418.00	41.29	45.24
23.11.2018	19.74	47.42	11.69	380.3	2'400.00	40.79	44.56
22.11.2018	19.87	47.73	11.94	383.1	2'412.00	40.8	44.84
21.11.2018	19.75	47.34	11.83	379.7	2'420.00	40.1	44.66
20.11.2018	19.77	47.51	12.12	376.3	2'417.00	41.79	45.38
19.11.2018	20.29	48.25	12.4	383.3	2'456.00	43.81	46.32
16.11.2018	20.36	48.69	12.51	384.5	2'450.00	44.1	46.4
15.11.2018	19.92	49.01	12.61	386.4	2'403.00	44.26	46.43
14.11.2018	19.92	48.96	12.64	384.1	2'383.00	44.68	46.2
13.11.2018	19.94	49.6	12.74	385.7	2'411.00	44.7	46.99
12.11.2018	20.35	50.5	13.06	388	2'420.00	45.8	47.24
09.11.2018	20.47	50.52	13.05	385.1	2'405.00	46.05	47.55
08.11.2018	20.64	50.5	13.1	388	2'426.00	46.2	47.02
07.11.2018	20.62	50.2	12.9	386	2'400.00	46.36	46.36

06.11.2018	20.53	49.9	12.88	385.5	2'407.00	45.99	46.25
05.11.2018	20.57	48.94	12.93	391.4	2'414.00	46.36	46.71
02.11.2018	20.66	49.57	13.05	395.9	2'445.00	46.49	46.83
01.11.2018	20.3	49.49	12.73	394	2'448.00	46.08	46.72
31.10.2018	20.08	48.63	13.04	389.5	2'399.00	45.44	46.38
30.10.2018	19.69	48.28	12.84	393	2'366.00	44.24	44.67
29.10.2018	19.58	47.6	12.59	421.7	2'355.00	44.2	43.74
26.10.2018	19.7	46.73	12.43	416.6	2'320.00	43.09	44
25.10.2018	19.5	45.66	12.32	416	2'269.00	42.74	40.69
24.10.2018	20.6	47.14	12.78	418.4	2'294.00	43.76	42.24
23.10.2018	20.7	47.43	12.77	423.2	2'298.00	44.23	42.46
22.10.2018	21.12	47.83	13.31	430.2	2'321.00	45.3	43.66
19.10.2018	21.24	49.22	13.16	430.5	2'315.00	45.1	43.57
18.10.2018	21.31	49.37	13.45	436.5	2'334.00	46.24	44
17.10.2018	21.3	49.42	13.52	434	2'349.00	46.2	45.39
16.10.2018	20.9	48.47	13.39	425.4	2'264.00	45.59	44.63
15.10.2018	20.99	48.61	13.34	427	2'289.00	45.19	44.57
12.10.2018	21.38	49.08	13.55	430	2'306.00	45.68	45.3
11.10.2018	21.27	48.9	13.57	430	2'294.00	45.95	44.74
10.10.2018	22.23	50.18	13.91	445.8	2'367.00	47.23	46.02
09.10.2018	22.25	50.76	13.99	446.2	2'405.00	47.58	46.1
08.10.2018	22.42	50.86	14.17	452.5	2'390.00	48.5	46.87
05.10.2018	22.73	51.54	14.42	450.3	2'381.00	50.4	48.24
04.10.2018	22.8	51.7	14.45	454.4	2'459.00	49.96	48.62
03.10.2018	22.88	51.74	14.5	453.5	2'454.00	49.6	48.77
02.10.2018	22.91	51.36	14.55	455.1	2'437.00	48.77	48.11
01.10.2018	23.33	51.46	14.75	455	2'418.00	49.15	48.37
28.09.2018	23.19	51.3	14.97	454.5	2'385.00	50.32	48.45
27.09.2018	22.98	52	15.1	451.9	2'366.00	50.7	47.03
26.09.2018	23.1	53.18	15.15	451.4	2'367.00	50.86	45.83
25.09.2018	23.18	52.5	15.18	449.8	2'367.00	50.7	45.62
24.09.2018	23.33	52.82	15.22	452.5	2'379.00	51.06	45.62
21.09.2018	23.48	53.48	15.37	456.5	2'404.00	51.06	46.26
20.09.2018	23.36	53	14.84	452.1	2'390.00	49.77	45.02
19.09.2018	23.15	55.22	14.57	451.2	2'392.00	49.06	44.6
18.09.2018	23.2	57.7	14.53	447.9	2'380.00	48.5	44.91
17.09.2018	23.15	57.86	14.42	448.4	2'383.00	48.2	44.98
14.09.2018	23.35	57.78	14.46	445.8	2'397.00	48.45	45
13.09.2018	23	57.92	14.4	444	2'378.00	48.38	44.81
12.09.2018	22.7	57.82	14.51	441.2	2'380.00	49.53	44.74
11.09.2018	22.76	57.8	14.54	438.3	2'373.00	49.9	45.06
10.09.2018	22.62	57.22	14.49	436.6	2'342.00	50	44.94
07.09.2018	22.69	57.56	14.59	432.4	2'323.00	50.58	44.99
06.09.2018	22.63	57.72	14.68	435.5	2'300.00	50.54	45.05
05.09.2018	22.8	58.08	14.67	442	2'334.00	50.56	45.81
04.09.2018	23.3	59.38	14.71	442.4	2'361.00	51.7	46.75
03.09.2018	22.83	59.32	14.53	440.1	2'354.00	51.46	47.2
31.08.2018	23.01	59.28	14.6	442.3	2'380.00	51.46	47.7
30.08.2018	23.26	59.46	14.78	444.1	2'395.00	52.2	48.5
29.08.2018	23.25	60.04	14.91	442.5	2'370.00	53.02	48.52

28.08.2018	23.4	60.22	14.94	442.6	2'348.00	53.64	48.77
27.08.2018	23.2	59.68	14.84	437.4	2'330.00	53.9	48.6
24.08.2018	23.12	58.94	14.64	433.8	2'319.00	53.76	48.42
23.08.2018	22.68	59.14	14.74	434.5	2'294.00	54.02	48.6
22.08.2018	22.64	59	14.84	432.7	2'288.00	53.76	48.57
21.08.2018	22.49	58.52	14.75	433.3	2'302.00	53.92	48.02
20.08.2018	22.43	58.14	14.75	430.4	2'312.00	53.64	48.12
17.08.2018	22.35	58.38	14.92	429.6	2'299.00	54.08	48.33
16.08.2018	22.11	57.72	14.88	424.5	2'290.00	53.78	48.5
15.08.2018	22.42	57.96	15.05	428.3	2'309.00	54.02	48.99
14.08.2018	22.58	58.26	15.09	434.9	2'294.00	54.06	49
13.08.2018	22.46	58.16	15.12	436.9	2'278.00	53.8	48.85
10.08.2018	22.68	59.28	15.5	441	2'309.00	54.42	49.58
09.08.2018	23.03	59.5	15.77	443.2	2'306.00	55.04	50.26
08.08.2018	23	60.02	15.76	444	2'322.00	55.08	50.26
07.08.2018	22.9	59.4	15.61	440.8	2'333.00	54.52	50.04
06.08.2018	22.64	59.66	15.74	441.8	2'339.00	54.3	49.88
03.08.2018	22.37	59.26	15.84	440.7	2'339.00	53.6	49.43
02.08.2018	22.61	60.4	15.91	439.2	2'323.00	54.24	50.3
31.07.2018	22.59	60.66	16.15	439.7	2'302.00	54.52	50.08
30.07.2018	22.71	60.32	15.58	439.8	2'301.00	54.28	49.93
27.07.2018	22.71	60.2	15.52	439.5	2'307.00	54.42	50.34
26.07.2018	22.37	60.08	15.57	437	2'306.00	54.88	48.4
25.07.2018	22.34	60	15.6	435.9	2'315.00	53.8	48.17
24.07.2018	22.2	59.22	15.6	436.7	2'298.00	54	48.01
23.07.2018	22.21	58.28	15.14	436.5	2'307.00	55.28	47.17
20.07.2018	22.59	59.54	15.25	434.4	2'308.00	57.56	47.58
19.07.2018	22.98	59	15.28	434	2'307.00	57.16	47.66
18.07.2018	21.73	58.8	15.11	435.8	2'346.00	56.94	47.72
17.07.2018	21.69	58.38	15.13	434.2	2'363.00	57.46	47.53
16.07.2018	21.6	58.64	14.88	434.2	2'378.00	57.52	47.26
13.07.2018	21.51	58.32	14.84	432.6	2'374.00	57.36	47.23
12.07.2018	21.45	58.12	14.87	431.8	2'374.00	58.6	47.1
11.07.2018	21.5	58.06	14.95	430.9	2'342.00	59.22	47.63
10.07.2018	21.67	58.84	15.2	430.8	2'350.00	59.9	48.19
09.07.2018	21.31	58.76	15	424	2'329.00	58.26	48
06.07.2018	21.25	58.58	14.99	421.4	2'305.00	58.28	47.54
05.07.2018	21.18	58.3	14.78	419.7	2'284.00	57.56	46.83
04.07.2018	21.41	58.28	14.83	422.9	2'269.00	57.48	47.46
03.07.2018	21.46	58.2	14.8	423.2	2'259.00	57.42	47.59
02.07.2018	21.39	58.2	14.66	422.6	2'233.00	57.68	47.81
29.06.2018	21.5	58.66	14.96	424.6	2'254.00	58.2	48.83
28.06.2018	21.45	58.16	14.79	427.6	2'215.00	57.52	48.93
27.06.2018	21.41	58.48	14.81	426.5	2'215.00	58.1	48.21
26.06.2018	21.45	58.3	14.89	424	2'187.00	57.44	48.7
25.06.2018	22.01	59.82	15.23	429.6	2'203.00	58.56	49.38
22.06.2018	21.97	58.68	14.99	426.8	2'190.00	58.26	49.65
21.06.2018	22.42	59.42	15.27	431.6	2'222.00	58.68	50.44
20.06.2018	22.28	59.52	15.17	429.5	2'219.00	58.42	50.22
19.06.2018	22.3	59.56	14.96	431.8	2'235.00	58.12	50.34

18.06.2018	22.81	60.04	15.26	437.8	2'266.00	59.84	51
15.06.2018	23.36	60.86	15.61	441.7	2'262.00	61.12	52.14
14.06.2018	22.89	59.8	15.42	437.4	2'239.00	60.16	51.44
13.06.2018	23.02	60.14	15.63	442.6	2'231.00	60.52	52.44
12.06.2018	22.94	60.16	15.78	442.5	2'236.00	60.48	52.5
11.06.2018	22.8	59.84	15.35	441.3	2'211.00	59.88	52.16
08.06.2018	22.5	59.54	15.17	437.2	2'195.00	58.6	51.66
07.06.2018	22.87	60.24	15.41	441	2'219.00	59.38	51.8
06.06.2018	22.68	59.7	15.14	433.1	2'191.00	58.48	51.52
05.06.2018	22.76	60	15.44	432.9	2'200.00	59.22	51.42
04.06.2018	23	60.78	15.57	436	2'233.00	58.92	51.7
01.06.2018	22.65	59.88	15.37	430	2'209.00	58.58	51.3
31.05.2018	22.84	59.98	15.45	428.9	2'232.00	59.06	51.5
30.05.2018	22.91	60.2	15.34	430.9	2'224.00	59.76	51.36
29.05.2018	23.22	61	15.95	433	2'226.00	60.8	52
28.05.2018	23.46	61.8	16.23	435.9	2'236.00	61.02	52.42
25.05.2018	23.65	62.2	16.3	440	2'231.00	60.64	52.46
24.05.2018	23.84	62.3	16.5	440.1	2'223.00	61.26	52.7
23.05.2018	24.35	63.58	16.87	443.6	2'250.00	63	53.44
22.05.2018	24.45	63.46	16.71	445.1	2'279.00	62.7	53.48
18.05.2018	24.13	63.34	16.86	446.8	2'267.00	62.58	53.46
17.05.2018	23.99	63.48	16.73	443.7	2'275.00	62.24	53
16.05.2018	23.87	63.22	16.9	440.7	2'269.00	62.52	52.78
15.05.2018	23.86	63.76	16.98	443.8	2'269.00	62.82	52.4
14.05.2018	24.08	64.66	17.11	446.5	2'282.00	62.78	53
11.05.2018	24.15	64.46	16.89	447.7	2'280.00	61.84	53.28
09.05.2018	23.93	64.36	16.53	446	2'249.00	61	54.6
08.05.2018	23.77	66	16.48	443.8	2'220.00	60.42	54.64
07.05.2018	23.49	66.46	16.32	443.9	2'194.00	60	56.54
04.05.2018	23.34	65.92	16.22	443.7	2'208.00	59.5	55.94
03.05.2018	23.39	66.52	16.69	439.5	2'224.00	59.2	55.7
02.05.2018	23.27	65.98	16.68	425	2'217.00	59.38	55.24
30.04.2018	23.02	65.56	16.75	425	2'205.00	58.4	54.86
27.04.2018	23.15	65.6	17.02	425.9	2'205.00	59.42	54.78
26.04.2018	22.95	65.12	16.79	423.4	2'186.00	58.08	54.32
25.04.2018	23.44	64.72	16.84	425.3	2'200.00	58.18	54.18
24.04.2018	23.81	68.3	16.28	430.7	2'207.00	58.26	55.16
23.04.2018	23.71	69.2	16.11	429.6	2'205.00	58.44	55.34
20.04.2018	23.72	69.5	16.11	429.3	2'204.00	58.28	55.06
19.04.2018	23.52	69.3	16.02	429.2	2'210.00	57.78	54.54
18.04.2018	22.5	68.54	16.01	424.7	2'193.00	57.8	53.62
17.04.2018	22.22	67.2	15.81	418.7	2'166.00	57.16	53.16
16.04.2018	22.12	66.82	15.88	418.5	2'176.00	57.5	53.4
13.04.2018	22.01	67.32	15.9	414.2	2'158.00	57.14	52.98
12.04.2018	21.83	67.3	15.74	411.5	2'152.00	57.12	52.44
11.04.2018	22	68.3	15.88	413.1	2'150.00	57.86	52.8
10.04.2018	21.97	68.2	15.77	416	2'160.00	57.88	53.16
09.04.2018	21.62	67.72	15.74	415.5	2'212.00	57.86	53.02
06.04.2018	21.81	68.08	15.81	417	2'194.00	58.24	52.98
05.04.2018	21.51	67.4	15.77	419.4	2'167.00	58.12	52.48

04.04.2018	21.6	66.9	15.78	420	2'166.00	57.78	51.7
03.04.2018	22.47	67.5	15.81	418.5	2'158.00	58.12	51.7
29.03.2018	22.5	67.98	15.95	425	2'159.00	58.92	52.24
28.03.2018	22.23	67.02	15.71	420.2	2'113.00	57.9	51.36
27.03.2018	22.32	67.38	16.13	421.6	2'140.00	59.28	52.2
26.03.2018	22.16	67.26	16.07	420.1	2'105.00	58.5	51.68
23.03.2018	22.1	66.9	16	421	2'140.00	58	51.78
22.03.2018	22.65	68.6	16.65	430.5	2'152.00	60.08	52.74
21.03.2018	22.9	70.22	17.28	430	2'152.00	61.6	53.22
20.03.2018	22.78	70.72	17.17	430.4	2'145.00	61.02	53.36
19.03.2018	23.02	70.16	17.38	431.3	2'134.00	61.18	53.04
16.03.2018	23.01	70.56	17.3	439	2'161.00	61.42	53.12
15.03.2018	22.95	70.22	17.19	439.4	2'150.00	60.52	52.88
14.03.2018	22.98	69.46	17.17	434.5	2'208.00	60.2	52.54
13.03.2018	23.2	70.24	17.39	440	2'225.00	61.12	53.1
12.03.2018	23.45	70.96	17.4	436.4	2'224.00	61.08	53.58
09.03.2018	23.11	70.38	17.19	432	2'205.00	60.12	52.82
08.03.2018	22.68	70	17.04	424.5	2'169.00	59.46	52.36
07.03.2018	22.75	69.56	16.88	420	2'150.00	59.64	52
06.03.2018	22.98	70	17.1	428	2'172.00	60.22	53.6
05.03.2018	22.33	68.88	16.6	414.6	2'100.00	58.48	51
02.03.2018	22.7	69.76	16.95	419.6	2'130.00	59.66	53
01.03.2018	22.95	73.3	17.47	426.2	2'150.00	61.2	55.4
28.02.2018	23.23	76.08	17.69	430.1	2'165.00	61.54	55.6
27.02.2018	23.47	76.32	17.55	431.5	2'188.00	61.74	55.96
26.02.2018	23.42	75.96	17.54	428.5	2'169.00	61.6	55.66
23.02.2018	23.5	75.8	17.52	428.5	2'175.00	61.96	55.3
22.02.2018	23.37	75.5	17.48	426.1	2'154.00	61.92	55.2
21.02.2018	23.61	74.98	17.44	426.7	2'152.00	61.46	55.4
20.02.2018	23.56	74.88	17.38	422.1	2'134.00	61.58	54.9
19.02.2018	23.69	74.72	17.34	428	2'167.00	62	54.94
16.02.2018	23.61	74.66	17.4	423.8	2'145.00	61.54	54.82
15.02.2018	23.33	73.68	17.4	417.5	2'150.00	61.18	54.16
14.02.2018	22.96	72.4	17.05	414	2'123.00	60.38	53.64
13.02.2018	23	72.22	16.59	411.4	2'113.00	60.16	53.54
12.02.2018	23	71.84	16.8	413.7	2'120.00	60.32	54.1
09.02.2018	22.96	71.24	16.36	414	2'090.00	60.02	53.2
08.02.2018	24.4	73.14	17.1	426	2'144.00	61.86	53.98
07.02.2018	24.52	72.68	16.95	422	2'132.00	63.04	54.22
06.02.2018	24.24	72.56	16.75	421	2'100.00	60.2	53.24
05.02.2018	25.41	74.8	17.7	435	2'165.00	62.82	55.9
02.02.2018	25.96	76.2	18.18	438	2'216.00	64.08	57.08
01.02.2018	26.02	76.9	18.03	441.9	2'245.00	64.28	57.4
31.01.2018	26.24	77.78	18.09	445	2'216.00	62.02	58.36
30.01.2018	26.2	78.28	18.29	446.2	2'218.00	63.8	58.54
29.01.2018	26.68	78.98	18.7	452	2'225.00	63.74	58.9
26.01.2018	26.61	78.28	18.34	450.4	2'250.00	63.48	58.36
25.01.2018	26.83	77.8	18.49	457	2'258.00	64	58.46
24.01.2018	27.01	78.58	18.52	463.1	2'261.00	64.4	59.7
23.01.2018	27	79.2	18.56	466.2	2'271.00	64.78	59.76

22.01.2018	26.91	79.08	18.25	463.1	2'300.00	63.86	59.6
19.01.2018	26.76	77.62	18.11	458.6	2'275.00	63.4	59.02
18.01.2018	26.86	78.8	17.99	438.5	2'274.00	63.42	58.68
17.01.2018	26.96	79.02	18.19	425.1	2'267.00	63.68	58.6
16.01.2018	27	79.96	18.3	430.3	2'269.00	64.26	59.18
15.01.2018	27.15	79.28	18.29	430.9	2'270.00	63.16	58.92
12.01.2018	26.99	78.74	18.23	430.5	2'265.00	62.2	59.54
11.01.2018	26.97	78.78	17.94	433	2'250.00	62.7	58.68
10.01.2018	27	78.82	17.71	434.3	2'262.00	62.04	59.2
09.01.2018	26.77	78.48	17.82	433.3	2'274.00	62.06	58.42
08.01.2018	26.94	79	17.71	438.6	2'300.00	61.8	58.18
05.01.2018	26.7	77.86	17.94	434.2	2'308.00	61.2	57.5
04.01.2018	26.59	76.42	17.65	431.6	2'295.00	60.28	56.28
03.01.2018	26.22	76.04	17.58	431.1	2'261.00	59.9	55.3
29.12.2017	26.25	74.4	17.4	431.2	2'247.00	59.65	54.9
28.12.2017	26.32	74.75	17.51	430.2	2'263.00	59.25	55
27.12.2017	26.21	74.75	17.75	430.1	2'235.00	59.25	54.5
22.12.2017	26.28	74.65	17.75	428.5	2'241.00	59.35	54.5
21.12.2017	26.1	74	17.32	425.9	2'215.00	59	53.9
20.12.2017	25.83	74.3	17.55	426.3	2'232.00	59.65	54.2
19.12.2017	26.12	74.5	17.58	425	2'211.00	59.7	54.1
18.12.2017	25.85	74.3	17.56	426.9	2'214.00	59.25	54.3
15.12.2017	25.85	74.25	17.39	427.3	2'230.00	58.45	52.55
14.12.2017	25.69	74	17.35	427.7	2'263.00	57.15	52.95
13.12.2017	25.68	73.9	17.32	425.9	2'260.00	57.05	52.25
12.12.2017	25.74	74.05	17.2	425.5	2'243.00	57.05	52.55
11.12.2017	25.89	74.1	17.3	427.3	2'262.00	57.55	52.8
08.12.2017	25.69	74.2	16.92	428.3	2'262.00	57.6	52.8
07.12.2017	25.43	73.55	16.69	427.1	2'262.00	56.9	52.8
06.12.2017	25.04	73.15	16.58	426	2'235.00	56.6	53
05.12.2017	25.38	73.5	16.96	428.3	2'227.00	57.25	53.4
04.12.2017	25.25	73.65	16.91	426.7	2'238.00	57.75	53.3
01.12.2017	25.22	74.15	16.67	428.2	2'227.00	57.7	53.7
30.11.2017	25.19	73.95	16.44	427.3	2'210.00	57	53.9
29.11.2017	25.35	75	16.46	430	2'217.00	57.4	54
28.11.2017	25.12	73.75	16.11	426	2'205.00	56.6	54.6
27.11.2017	25.08	73.6	16.31	427.4	2'232.00	57.85	55.2
24.11.2017	24.97	73.45	16.3	427.3	2'217.00	59.95	55.15
23.11.2017	24.85	73.4	16.23	426	2'209.00	59.85	54.75
22.11.2017	25.23	74.3	16.34	427.4	2'278.00	60.5	55.3
21.11.2017	25.11	74.8	15.94	427.5	2'292.00	60.5	55.8
20.11.2017	24.87	73.7	15.8	424.8	2'255.00	59.5	55.1
17.11.2017	24.99	73.95	15.87	426.7	2'256.00	58.75	55.05
16.11.2017	24.94	73.85	15.77	428.3	2'235.00	58.15	54.65
15.11.2017	24.95	73.5	15.68	426.2	2'241.00	57.8	55.1
14.11.2017	25.11	74.25	15.82	429	2'252.00	58	56.35
13.11.2017	25.25	75.45	16	429.1	2'243.00	58.7	56.65
10.11.2017	25.49	76	15.92	433	2'234.00	58.3	57.15
09.11.2017	26.07	77.8	16.15	440.4	2'271.00	58.6	56.9
08.11.2017	26.19	77.5	16.1	436.5	2'248.00	59	56

07.11.2017	26.18	76.5	16.15	440	2'260.00	58.75	56.65
06.11.2017	26.18	78.9	16.07	444.6	2'264.00	59.15	56.7
03.11.2017	26.09	78.75	16.34	446.1	2'236.00	59.5	56.35
02.11.2017	26.21	78.5	15.86	442.3	2'236.00	58.95	55.65
01.11.2017	26.33	79.35	15.78	452.9	2'238.00	59	56.1
31.10.2017	25.6	78.5	15.86	452	2'225.00	58.45	55.8
30.10.2017	25.21	78	15.85	473.9	2'221.00	58.65	56.25
27.10.2017	25.22	77.95	16.09	472	2'211.00	59.85	55.7
26.10.2017	24.98	76.6	15.97	463.2	2'190.00	58.5	56.8
25.10.2017	24.77	76.15	16.09	466.2	2'190.00	58.45	57.3
24.10.2017	24.91	77.65	16	467.9	2'190.00	58.2	57.45
23.10.2017	24.97	76.9	15.95	461	2'170.00	58.2	57.3
20.10.2017	24.88	76.55	15.65	466.5	2'169.00	58	56.85
19.10.2017	24.49	76.4	15.66	464.6	2'155.00	58.6	56
18.10.2017	24.43	76	15.7	462.9	2'160.00	58.25	55.85
17.10.2017	24.37	76	15.67	465.5	2'160.00	58.35	56.35
16.10.2017	24.43	76	15.47	468	2'178.00	58.5	57.4
13.10.2017	24.41	75.95	15.36	469	2'169.00	57.9	57.35
12.10.2017	24.4	75.75	15.43	465.1	2'155.00	57.05	56.85
11.10.2017	24.41	76.3	15.55	465.7	2'157.00	57.65	57.25
10.10.2017	24.44	75.65	15.59	462.2	2'145.00	57.5	57
09.10.2017	24.46	75	15.73	460.7	2'084.00	57.5	56.2
06.10.2017	24.47	75.75	15.72	463.6	2'106.00	58	56.15
05.10.2017	24.42	75.1	15.43	460	2'113.00	57.4	56.1
04.10.2017	24.31	75.55	15.57	458.3	2'119.00	58.1	56.3
03.10.2017	24.28	75.4	15.39	459	2'095.00	57.75	56
02.10.2017	24.02	75.3	15.3	459	2'105.00	57.3	56.85
29.09.2017	23.9	74.6	15.25	457.5	2'095.00	56.85	56.15
28.09.2017	23.85	73.8	15.34	450.5	2'093.00	56.75	56.35
27.09.2017	23.85	74.15	15.18	454.2	2'096.00	56.6	56.2
26.09.2017	23.82	74.3	15.05	454.2	2'113.00	56.4	56.3
25.09.2017	23.87	74.5	15.18	456.5	2'116.00	56.6	59
22.09.2017	23.96	75.7	15.22	455.2	2'092.00	56.45	58.85
21.09.2017	23.8	75.5	15.1	454.9	2'088.00	56.6	59.6
20.09.2017	23.57	74	14.97	450	2'078.00	56.2	58.95
19.09.2017	23.6	74	14.9	454	2'050.00	55.75	58.35
18.09.2017	23.55	73.65	14.97	449	2'029.00	55.3	58.55
15.09.2017	23.59	73.6	14.99	455.1	2'038.00	55.35	58.2
14.09.2017	23.4	72.9	14.85	450.5	2'025.00	54.4	57.5
13.09.2017	23.37	71.9	14.75	450	2'033.00	54.25	57.75
12.09.2017	23.14	71.55	14.66	448	2'024.00	54.55	57.3
11.09.2017	22.86	70.6	14.12	443	2'016.00	53.65	56.9
08.09.2017	22.65	69.85	13.84	439.1	1'995.00	52.9	56.25
07.09.2017	22.82	70	14.02	439.8	1'983.00	53.7	55.7
06.09.2017	22.51	69.6	13.79	437.5	1'974.00	52.9	56.1
05.09.2017	22.44	70	14.1	437.2	1'980.00	53.4	56.75
04.09.2017	22.26	69.5	14.05	435.8	1'963.00	53.8	56.6
01.09.2017	22.25	69.55	14.14	439.8	1'965.00	53.8	56.55
31.08.2017	22.02	69.65	14.13	441.6	1'965.00	54	56.5
30.08.2017	21.88	69.3	14.13	442.6	1'961.00	53.55	56.4

29.08.2017	21.88	68.75	14.21	440	1'952.00	53.25	56.7
28.08.2017	22.24	69.4	14.38	443.5	1'956.00	53.7	57
25.08.2017	22.33	70.45	14.39	447.2	1'963.00	53.95	57.8
24.08.2017	22.45	71.45	14.37	448.5	1'964.00	53.75	58.2
23.08.2017	22.28	71.45	14.4	452	1'950.00	54.5	58.35
22.08.2017	22.04	70.8	14.33	455	1'941.00	54.45	57.85
21.08.2017	21.84	70.3	14.34	448	1'929.00	53.75	57.3
18.08.2017	22.1	70.4	14.14	449.4	1'941.00	53.55	57.5
17.08.2017	22.38	70.7	14.49	455	1'946.00	54.1	58.05
16.08.2017	22.2	70.8	14.6	481.4	1'946.00	54.7	58.2
15.08.2017	22.36	70.45	14.7	480	1'937.00	54.4	58.4
14.08.2017	22.11	69.6	14.48	471.1	1'925.00	52.95	57.8
11.08.2017	22	69.45	14.5	470	1'920.00	53	57.55
10.08.2017	22.36	71.9	14.73	476	1'949.00	54	58.6
09.08.2017	22.62	74.4	14.97	477.5	1'950.00	54.8	58.8
08.08.2017	22.68	74.55	15.27	483.9	1'972.00	55.4	59.5
07.08.2017	22.76	74.7	15.22	483.3	1'984.00	55.7	59.25
04.08.2017	22.76	73.9	14.9	475	1'962.00	55.7	58.1
03.08.2017	22.86	74.55	14.95	473.7	1'971.00	55.45	58.15
02.08.2017	22.9	74.8	14.98	475.1	1'938.00	55	58.4
31.07.2017	22.72	72.9	15.13	456.8	1'911.00	54.3	57.45
28.07.2017	22.53	72.25	14.83	451.1	1'910.00	54.3	57.1
27.07.2017	22.3	72.2	14.6	450.1	1'924.00	53.35	57.45
26.07.2017	22.25	71.7	14.59	447.4	1'896.00	53.9	57.4
25.07.2017	22.18	71.5	14.52	448.6	1'909.00	52.45	57.15
24.07.2017	22.43	71.35	14.36	451.6	1'931.00	51.6	56.4
21.07.2017	23.01	72.55	14.59	458.6	1'911.00	50.85	57.15
20.07.2017	23.36	72.4	14.43	458.5	2'010.00	50.75	57.15
19.07.2017	23.86	71.55	14.36	458.8	1'968.00	50.65	57.2
18.07.2017	24.03	71.16	14.53	457.6	1'969.00	50.35	57.1
17.07.2017	24.18	71.95	14.68	457.9	1'964.00	50.85	56.6
14.07.2017	24.06	71.9	14.75	456	1'912.00	51.25	57
13.07.2017	24.26	71.6	14.65	457.2	1'913.00	51.25	56.8
12.07.2017	23.85	71.01	14.55	448.2	1'884.00	50.95	55.85
11.07.2017	23.91	71.11	14.67	450.3	1'905.00	51.95	56.4
10.07.2017	23.88	71.9	14.75	449.3	1'893.00	51.85	55.85
07.07.2017	23.76	71.6	14.46	444.5	1'890.00	51.4	55.65
06.07.2017	23.83	71.85	14.48	449.3	1'923.00	52.25	56.05
05.07.2017	23.67	71.5	14.41	447.8	1'916.00	51.65	56.05
04.07.2017	23.81	72.59	14.28	450.9	1'918.00	51.7	56.4
03.07.2017	23.8	72.24	13.99	448.9	1'923.00	50.8	55.35
30.06.2017	23.66	71.75	14.08	445.4	1'912.00	51.2	55.05
29.06.2017	24.19	72.69	13.95	454.7	1'935.00	51.7	56.3
28.06.2017	24.31	72.69	13.66	452.9	1'929.00	51.65	56.05
27.06.2017	24.57	72.79	13.54	456.3	1'950.00	51.35	56.25
26.06.2017	24.63	72.89	13.46	458.5	1'930.00	50.9	56
23.06.2017	24.56	73.33	13.43	458.4	1'979.00	51	55.45
22.06.2017	24.52	73.33	13.55	461.7	1'992.00	51.05	55.7
21.06.2017	24.42	73.38	13.42	461.7	1'993.00	51.15	55.7
20.06.2017	24.84	74.61	13.69	465	2'010.00	51.9	56.85

19.06.2017	24.7	74.02	13.45	460	1'988.00	52.1	56.95
16.06.2017	24.46	73.23	13.06	452	1'975.00	51.35	56.2
15.06.2017	24.32	72.34	13.23	449.7	1'982.00	50.45	56.45
14.06.2017	24.52	72.89	13.4	448.5	1'968.00	51.05	57
13.06.2017	24.21	72	13.31	447	1'960.00	49.62	56.7
12.06.2017	24.55	72.2	13.45	449.3	1'961.00	49.87	56.95
09.06.2017	24.46	72.29	13.26	448.9	1'960.00	49.9	56.5
08.06.2017	24.4	71.5	13.27	452.5	1'963.00	49.8	56.05
07.06.2017	24.53	71.06	13.2	453	1'988.00	49.55	56.4
06.06.2017	24.63	72.1	13.35	456	2'012.00	49.78	57.3
02.06.2017	24.5	72.44	13.31	455.9	2'010.00	50.5	58.5
01.06.2017	24.32	71.45	13.28	454.2	1'991.00	50.05	58.1
31.05.2017	24.28	71.21	13.41	449	1'990.00	50.4	58.5
30.05.2017	24.27	71.55	13.52	451.1	2'007.00	50.65	58.55
29.05.2017	24.26	71.5	13.62	450.4	1'998.00	51	58.15
26.05.2017	24.27	71.6	13.47	451.8	2'015.00	51.35	58.1
24.05.2017	24.1	72.79	13.4	449.5	2'007.00	51.4	58.55
23.05.2017	24.23	74.27	13.46	448.4	2'021.00	52.05	58.05
22.05.2017	24.41	74.42	13.62	450	1'991.00	51.75	56.7
19.05.2017	24.2	75.16	13.53	447.3	1'972.00	51.05	54.35
18.05.2017	24.22	74.86	13.59	444.2	1'947.00	50.6	54.1
17.05.2017	24.66	75.65	13.99	450.9	1'953.00	52.15	55.5
16.05.2017	24.73	75.9	14.17	453	1'961.00	52.8	56.2
15.05.2017	24.77	75.7	14.21	457.2	1'966.00	53	56.5
12.05.2017	24.77	76.1	14.38	457.5	1'958.00	53.05	56.3
11.05.2017	24.84	76.54	14.55	457.2	1'950.00	53.5	56.9
10.05.2017	24.6	75.4	14.44	458.5	1'954.00	52.4	56.5
09.05.2017	24.5	74.76	14.27	459	1'955.00	52.2	55.25
08.05.2017	24.49	74.27	14.29	461.2	1'953.00	52.2	55.45
05.05.2017	24.26	73.23	14	459.6	1'953.00	51.75	56.45
04.05.2017	24.4	73.28	13.94	459	1'949.00	52	56.35
03.05.2017	24.39	73.97	13.88	449.2	1'940.00	51.75	57.75
02.05.2017	24.4	73.03	13.95	453.5	1'917.00	52.2	57
28.04.2017	24.32	72.39	13.85	451	1'947.00	50.9	56.9
27.04.2017	24.05	73.87	14.31	447.1	1'922.00	50.4	57.05
26.04.2017	23.99	74.02	13.94	446.4	1'920.00	50.8	57.75
25.04.2017	23.79	74.47	13.74	440.1	1'922.00	50.5	57.8
24.04.2017	23.53	72.74	13.61	431	1'900.00	50.05	58.35
21.04.2017	22.97	72.1	13.28	429.5	1'914.00	49.4	58.35
20.04.2017	22.48	71.45	13.14	427.4	1'903.00	48.34	56.9
19.04.2017	22.12	70.47	12.97	426.2	1'890.00	47.76	56.8
18.04.2017	22.97	71.4	13.15	428.2	1'892.00	48.48	58.25
13.04.2017	23.01	71.6	13.23	428.5	1'893.00	49.69	58.45
12.04.2017	23.08	71.01	13.41	424.3	1'889.00	50.1	59.1
11.04.2017	23	69.87	13.4	422.8	1'879.00	49.85	58.4
10.04.2017	23.58	70.42	13.52	424.1	1'820.00	50.5	59.05
07.04.2017	23.36	69.03	13.26	417.2	1'809.00	49.87	58.5
06.04.2017	23.19	69.13	13.26	426.3	1'790.00	49.61	59
05.04.2017	23.36	69.82	13.33	429.7	1'800.00	49.76	59.55
04.04.2017	23.36	69.58	13.3	429.6	1'791.00	49.46	59.15

03.04.2017	23.49	70.42	13.62	431.5	1'802.00	50.1	59.5
31.03.2017	23.4	69.68	13.83	432.5	1'804.00	49.95	58.85
30.03.2017	23.19	68.34	13.66	437.5	1'790.00	49.8	57.7
29.03.2017	23.28	68.89	13.64	438.5	1'808.00	50	57.65
28.03.2017	23.06	68.89	13.55	436	1'802.00	49.44	57.35
27.03.2017	23	68.99	13.29	435	1'799.00	48.89	56.95
24.03.2017	23.21	68.84	13.48	436	1'850.00	49.25	57.95
23.03.2017	22.93	68.44	13.64	431.4	1'851.00	49.22	57.2
22.03.2017	22.98	69.03	13.74	430	1'856.00	49.05	57.15
21.03.2017	23.29	69.63	14.05	435.4	1'852.00	49.5	58.9
20.03.2017	23.19	70.12	14.07	434.6	1'840.00	49.25	58.8
17.03.2017	23.05	69.08	14.25	432.6	1'840.00	50	58.25
16.03.2017	23.05	69.28	14.25	430	1'836.00	50.05	58.9
15.03.2017	22.73	69.13	14.13	427.8	1'816.00	49.14	57.5
14.03.2017	22.76	68.94	14.24	437.5	1'815.00	49.52	57.75
13.03.2017	22.79	69.23	14.25	440	1'820.00	49.33	57.75
10.03.2017	22.62	69.18	14.24	435.4	1'815.00	48.96	57.9
09.03.2017	22.86	69.03	14.07	436.8	1'800.00	48.54	57.75
08.03.2017	22.91	69.23	13.92	438.6	1'811.00	48.58	58.75
07.03.2017	22.8	69.08	14.05	437.8	1'827.00	48.92	58.45
06.03.2017	22.81	68.59	14.25	437	1'809.00	48.96	59.2
03.03.2017	22.93	69.38	14.29	439	1'810.00	49	58.6
02.03.2017	23.2	71.11	14.51	439.7	1'826.00	49.7	59.4
01.03.2017	22.75	71.5	14.04	435	1'818.00	49.3	57.65
28.02.2017	22.65	70.32	13.89	432	1'836.00	49.18	56.8
27.02.2017	22.7	69.63	13.76	428.1	1'815.00	48.49	55.95
24.02.2017	22.91	70.27	14.11	430.6	1'829.00	49.33	56.7
23.02.2017	23.15	70.52	14.21	430	1'826.00	49.03	57.7
22.02.2017	23.19	70.81	14.3	430	1'815.00	49	57.75
21.02.2017	22.83	70.37	14.32	429.1	1'812.00	48.68	57.1
20.02.2017	22.98	70.37	14.27	428.7	1'803.00	48.6	56.25
17.02.2017	22.95	70.32	14.14	428.1	1'785.00	48.84	56.55
16.02.2017	23.02	70.91	14.05	428.6	1'785.00	48.61	56.75
15.02.2017	23	71.01	14.01	427	1'784.00	48.4	56.55
14.02.2017	23.08	70.91	13.83	428.2	1'775.00	47.75	56.2
13.02.2017	22.98	69.43	13.33	429.5	1'763.00	47.37	56.3
10.02.2017	22.82	68.89	13.59	426.2	1'780.00	47.54	55.95
09.02.2017	22.61	68.64	13.3	425.4	1'777.00	47.11	54.5
08.02.2017	22.86	69.13	13.62	423.7	1'750.00	47.12	54.3
07.02.2017	23.12	69.82	13.69	420.5	1'739.00	46.77	54.55
06.02.2017	23.44	70.07	13.79	423.1	1'724.00	46.5	55
03.02.2017	23.42	70.22	13.67	421	1'726.00	46.5	54.4
02.02.2017	23.46	70.17	13.9	422	1'740.00	46.95	53.75
01.02.2017	23.7	70.12	13.83	422.7	1'774.00	48	53.85
31.01.2017	23.53	69.58	13.97	422.2	1'770.00	45.94	53.2
30.01.2017	23.74	70.42	13.94	425.8	1'827.00	45.9	53.9
27.01.2017	23.74	71.6	14.18	429.5	1'817.00	47.52	54.2
26.01.2017	23.6	71.5	14.66	426.5	1'840.00	46.92	54.95
25.01.2017	23	71.01	14.17	422.7	1'832.00	46.68	53.5
24.01.2017	22.69	70.12	13.93	421	1'825.00	45.5	51.25

23.01.2017	22.76	69.38	14.05	420.5	1'808.00	46.36	50.8
20.01.2017	22.7	70.27	14.13	422.9	1'820.00	47.03	50.7
19.01.2017	22.49	69.18	14.07	424.8	1'813.00	47.53	51.5
18.01.2017	22.48	69.28	14.22	425.8	1'823.00	47.91	52
17.01.2017	22.43	68.79	14.45	423.5	1'825.00	47.6	52.2
16.01.2017	22.59	69.08	14.61	413.6	1'836.00	48.21	53.8
13.01.2017	22.45	70.37	14.46	413.6	1'859.00	47.5	53.35
12.01.2017	22.51	69.63	14.67	411.7	1'850.00	47.08	53.1
11.01.2017	22.41	69.08	14.48	410	1'847.00	47.33	53.7
10.01.2017	21.82	68.64	14.6	410.3	1'871.00	47.2	53.65
09.01.2017	21.9	68.74	14.64	411	1'873.00	47.79	54.3
06.01.2017	21.7	68.59	14.47	411.3	1'879.00	48.12	53.95
05.01.2017	21.77	68.39	14.79	406.9	1'877.00	47.95	53.5
04.01.2017	21.79	67.8	14.66	410.7	1'868.00	47.98	53.6
03.01.2017	21.66	66.47	13.74	411	1'881.00	45.93	54.3
30.12.2016	21.62	66.07	13.32	409.7	1'863.00	45.4	54.25
29.12.2016	21.65	65.63	13.73	409	1'844.00	45.5	53.75
28.12.2016	21.64	66.61	13.84	408.8	1'844.00	45.75	53.8
27.12.2016	21.63	66.17	14.04	408	1'832.00	46.02	53.35
23.12.2016	21.68	65.92	14.01	404.9	1'840.00	45.96	53.05
22.12.2016	21.5	66.02	14.11	400.7	1'818.00	45.87	53.15
21.12.2016	21.63	66.32	14.46	400.5	1'834.00	46.02	53.05
20.12.2016	21.6	65.73	14.07	400.5	1'840.00	46.02	53.25
19.12.2016	21.58	65.73	14.3	400.8	1'834.00	46.29	53.2
16.12.2016	21.48	66.86	14.59	401.7	1'821.00	46.64	53.35
15.12.2016	21.46	65.53	14.12	401	1'811.00	45.98	52.2
14.12.2016	21.48	65.28	14.08	404.8	1'810.00	46.23	53
13.12.2016	21.4	64.89	13.97	399.4	1'810.00	46.1	53.5
12.12.2016	21.47	63.95	14.24	402.5	1'830.00	46.63	54.4
09.12.2016	21.25	64.49	14.71	396.2	1'787.00	46.49	54.3
08.12.2016	21.17	64.1	14.29	398.7	1'785.00	46.79	54.75
07.12.2016	21.26	63.06	13.56	399.9	1'799.00	46	53.95
06.12.2016	21.13	61.48	12.66	401.9	1'774.00	44.81	53.75
05.12.2016	20.73	61.13	12.35	395.7	1'793.00	44.33	52.6
02.12.2016	20.79	61.23	12.63	396.1	1'800.00	44.44	52.9
01.12.2016	20.74	62.02	12.33	405.9	1'817.00	44.96	53.95
30.11.2016	20.69	61.92	12.28	401	1'820.00	44.5	52.7
29.11.2016	20.66	61.23	12.19	400.9	1'819.00	44.73	52.5
28.11.2016	20.86	61.58	12.56	405.1	1'830.00	44.9	53.35
25.11.2016	20.82	61.92	12.91	405.4	1'816.00	45.58	54
24.11.2016	20.86	61.43	12.81	402.5	1'784.00	45.23	54
23.11.2016	20.9	62.12	12.85	404.9	1'795.00	45	54.9
22.11.2016	20.96	61.73	12.91	407.7	1'818.00	44.75	54.5
21.11.2016	20.99	61.23	12.97	408.6	1'808.00	45.19	54.25
18.11.2016	21.07	60.89	13.25	405.9	1'817.00	44.76	56
17.11.2016	20.98	59.45	13.01	400.7	1'791.00	43.97	54.2
16.11.2016	21.12	60.49	13.56	399.6	1'804.00	43.7	56
15.11.2016	21.12	61.23	13.51	402.1	1'764.00	43.77	56.3
14.11.2016	21.13	59.75	12.86	404.9	1'776.00	42.8	56.05
11.11.2016	21.1	59.45	12.68	409.7	1'765.00	43.16	57.8

10.11.2016	20.95	57.38	12.26	414	1'829.00	41.8	56.9
09.11.2016	19.77	55.16	11.02	399	1'825.00	38.5	52
08.11.2016	20.36	56.29	11.54	409.5	1'864.00	39.55	53.65
07.11.2016	20.19	57.28	11.34	407.6	1'885.00	38.85	53.45
04.11.2016	19.83	56.34	11.12	405.1	1'857.00	38.79	51.6
03.11.2016	19.81	56.64	11.79	407	1'886.00	38.66	50.55
02.11.2016	20	57.28	12.41	413.9	1'892.00	39.48	51.7
01.11.2016	20.53	58.07	12.73	420	1'924.00	40.14	53.35
31.10.2016	20.29	58.32	12.69	413.1	1'927.00	39.93	52.35
28.10.2016	20.35	57.87	12.8	415	1'915.00	39.86	53
27.10.2016	20.85	58.22	12.74	420.3	1'923.00	40.11	53.3
26.10.2016	21.99	58.17	12.52	422	1'919.00	40.7	53.45
25.10.2016	22.17	58.32	12.78	425.4	1'930.00	40.54	53.75
24.10.2016	22.29	58.17	12.56	428.9	1'932.00	40.08	53.4
21.10.2016	22.24	56.39	12.53	427.6	1'933.00	40.03	53.45
20.10.2016	22.28	57.18	12.38	428.6	1'965.00	40.1	52.95
19.10.2016	22.14	57.18	12.11	427.9	1'937.00	39.71	52.5
18.10.2016	22.21	55.21	11.91	425.5	1'939.00	39.55	51.45
17.10.2016	22.11	55.31	11.84	424.2	1'942.00	39.85	51
14.10.2016	22	55.21	11.65	421.4	1'924.00	39.84	49.94
13.10.2016	22.06	55.95	11.85	419.1	1'925.00	40.55	51
12.10.2016	22.18	56.15	12.04	424.7	1'951.00	40.77	51.85
11.10.2016	22.42	55.26	11.95	425.6	1'987.00	40.41	52.4
10.10.2016	22.3	55.36	11.81	422.7	1'970.00	40.06	51.75
07.10.2016	22.35	56.05	12.09	428.1	2'000.00	40.75	52.6
06.10.2016	22.33	56	12.22	428	2'005.00	40.64	52.8
05.10.2016	22.19	55.65	11.96	428	1'987.00	39.9	52.35
04.10.2016	21.95	54.12	11.77	429.9	2'003.00	39.66	52.55
03.10.2016	21.89	53.92	11.71	424.7	1'969.00	39.45	52.3
30.09.2016	21.57	53.33	11.05	420	1'952.00	38.8	51.55
29.09.2016	22.1	55.16	11.54	429.8	2'014.00	40	53.45
28.09.2016	21.9	54.22	11.43	425	1'996.00	39.62	52.1
27.09.2016	21.99	54.32	11.78	425.8	2'005.00	40.06	52.2
26.09.2016	21.98	54.12	11.87	425	1'991.00	40.27	52.25
23.09.2016	22.18	54.47	12.02	428.3	2'004.00	40.88	53.15
22.09.2016	21.95	53.83	11.79	424	2'003.00	41.33	51.45
21.09.2016	21.91	53.58	11.71	424.5	2'019.00	41.46	50.3
20.09.2016	21.6	53.13	11.64	422.3	2'008.00	41.6	50.35
19.09.2016	21.56	53.23	11.91	421.3	2'006.00	41.8	49.88
16.09.2016	21.71	53.53	11.98	422.8	2'007.00	42.24	50.1
15.09.2016	21.48	53.43	11.97	418.7	2'007.00	42	49.72
14.09.2016	21.92	54.17	12.14	420	2'005.00	42.23	50.05
13.09.2016	21.74	55.11	12.25	420	2'028.00	42.15	50.2
12.09.2016	21.51	55.55	12.19	416.2	2'000.00	42	50
09.09.2016	22.02	56.89	12.19	430	2'059.00	42.78	52
08.09.2016	21.94	56.94	11.91	431.7	2'069.00	42.5	52.8
07.09.2016	21.97	56.69	11.68	430.1	2'059.00	42.25	52.3
06.09.2016	21.9	56.49	11.96	430.2	2'070.00	42.58	52.45
05.09.2016	21.79	56.05	11.93	427.1	2'064.00	42.59	52.1
02.09.2016	21.52	55.36	11.87	425.7	2'050.00	42.16	51.8

01.09.2016	21.32	56.24	11.87	430 2'044.00	41.43	52.3
31.08.2016	21.4	56.29	11.48	429 2'052.00	40.97	52.7
30.08.2016	21.46	55.41	11.21	429.5 2'058.00	40.45	51.7
29.08.2016	21.38	55.16	11.16	431.1 2'040.00	40.18	51.3
26.08.2016	21.31	55.31	10.99	427.3 2'034.00	39.82	50.9
25.08.2016	21.21	55.65	10.9	428.8 2'031.00	39.93	50.75
24.08.2016	21.18	55.6	10.82	426.6 2'033.00	39.71	50.8
23.08.2016	21.19	55.26	10.57	427 2'033.00	39.13	50.9
22.08.2016	21.15	54.47	10.46	425 2'033.00	39.27	50.3
19.08.2016	21.32	55.16	10.64	426.5 2'050.00	40.15	51.4
18.08.2016	21.27	54.47	10.58	423 2'038.00	40.67	51.1
17.08.2016	21.3	55.06	10.68	420 2'037.00	41.35	51.4
16.08.2016	21.4	55.26	10.64	412 2'054.00	41.45	51.4
15.08.2016	21.55	55.85	10.76	400 2'055.00	41.89	51.75
12.08.2016	21.47	55.31	10.56	399.8 2'068.00	42	51.6
11.08.2016	21.44	55.95	10.54	395 2'045.00	41.92	51.05
10.08.2016	21.12	54.32	10.35	391.7 2'044.00	41.56	50.35
09.08.2016	21.03	53.04	10.2	387.3 2'013.00	41.19	49.74
08.08.2016	20.94	53.23	10.13	386.8 2'007.00	41.08	49
05.08.2016	20.65	52.1	9.8	379.4 2'010.00	40.19	47.73
04.08.2016	20.5	51.85	9.77	374.6 2'000.00	39.64	45.18
03.08.2016	20.39	51.41	9.55	374.1 2'008.00	39.45	44.27
02.08.2016	20.6	52.2	10.12	374.7 1'991.00	39.7	45.68
29.07.2016	20.67	52.25	10.08	374.5 1'985.00	39.85	45.6
28.07.2016	20.62	52.69	10.89	378 2'002.00	40.6	45.8
27.07.2016	20.8	52.94	10.61	377.6 2'036.00	40.85	44.98
26.07.2016	20.55	52.99	10.55	373.9 2'007.00	41.16	44.17
25.07.2016	20.55	52.34	10.51	372 2'022.00	41.1	43.75
22.07.2016	20.4	52.84	10.54	373.6 2'022.00	40.2	44.21
21.07.2016	20.31	52.54	10.39	376.6 2'023.00	39.91	43.27
20.07.2016	19.95	52.49	10.31	375 2'028.00	39.99	43.54
19.07.2016	19.6	52.54	10.22	371.5 2'094.00	40.05	44.4
18.07.2016	19.69	52.79	10.2	371.9 2'099.00	40.08	44.06
15.07.2016	19.48	52.49	10.14	371 2'057.00	39.87	43.88
14.07.2016	19.35	52.34	9.85	373 2'048.00	39.86	44.02
13.07.2016	19.23	51.6	9.94	369 2'031.00	39.62	43.69
12.07.2016	19.12	49.11	9.52	371.8 2'025.00	38.9	42.59
11.07.2016	18.71	48.96	9.53	366.6 2'040.00	38.12	41.39
08.07.2016	18.22	46.67	9.17	359 1'984.00	36.9	39.29
07.07.2016	18.05	46.32	9.18	359.5 1'983.00	36.7	39.18
06.07.2016	18.15	45.91	9.17	355.9 1'971.00	36.63	39.44
05.07.2016	18.44	47.21	9.44	363 1'978.00	38.21	40.42
04.07.2016	18.73	49.38	9.75	371.3 1'980.00	39.1	41.25
01.07.2016	18.52	48.61	9.57	370 1'963.00	39.21	40.66
30.06.2016	18.29	47.9	9.53	368.5 1'940.00	38.37	39.99
29.06.2016	18.32	47.88	9.6	363.8 1'900.00	37.85	38.78
28.06.2016	18.43	48.04	9.71	355.1 1'843.00	37.64	38.25
27.06.2016	18.58	51.6	10.26	366.8 1'855.00	40.5	39.2
24.06.2016	18.51	53.04	10.35	361.5 1'800.00	40	39.1
23.06.2016	19.74	57.73	11.68	372.5 1'869.00	43.58	42.94

22.06.2016	19.68	57.28	11.54	373.4	1'879.00	44.14	42.38
21.06.2016	19.44	56.79	11.35	372.7	1'878.00	42.7	42.26
20.06.2016	19.25	56	11.32	364.2	1'861.00	41.72	41.3
17.06.2016	18.91	54.81	10.66	359.9	1'827.00	40.11	40.29
16.06.2016	18.66	54.32	10.41	358.5	1'820.00	39.3	39.87
15.06.2016	18.78	55.16	10.55	361	1'801.00	39.99	39.96
14.06.2016	18.79	55.5	10.62	361	1'820.00	40.5	40
13.06.2016	19.12	56.99	10.94	369.1	1'854.00	41.25	41.29
10.06.2016	19.54	58.57	11.43	377	1'848.00	42.45	43.4
09.06.2016	19.79	58.91	11.77	380.5	1'860.00	43.1	44.57
08.06.2016	19.97	59.65	11.87	382.1	1'880.00	43.15	44.4
07.06.2016	19.88	59.6	11.87	382	1'886.00	43.16	43.92
06.06.2016	19.77	59.16	11.94	380.8	1'881.00	42.85	43.83
03.06.2016	19.84	59.8	12.39	381	1'891.00	43.63	44.86
02.06.2016	19.8	59.45	12.25	381.4	1'895.00	44	44.14
01.06.2016	19.81	59.41	12.32	379.2	1'908.00	44	44.68
31.05.2016	20.09	59.75	12.85	381.3	1'922.00	44.02	45.13
30.05.2016	20.12	59.55	12.96	380	1'929.00	44.03	45.09
27.05.2016	19.95	59.8	12.89	382.4	1'904.00	43.76	45.25
26.05.2016	19.8	59.85	13	377.5	1'935.00	43.45	44.85
25.05.2016	19.71	59.75	12.94	382.5	1'958.00	43.24	45.1
24.05.2016	19.48	58.32	12.5	376	1'943.00	41.25	43.52
23.05.2016	19.52	58.86	12.34	377.1	1'934.00	41.25	44.36
20.05.2016	19.3	58.37	12.46	373	1'918.00	41.1	44.5
19.05.2016	19.26	57.58	12.28	369.9	1'930.00	40.28	44.09
18.05.2016	19.17	57.38	11.59	368.5	1'935.00	39.92	43.25
17.05.2016	19.22	57.78	11.48	371.5	1'950.00	39.43	42.11
13.05.2016	19.16	57.23	11.5	367.3	1'909.00	38.81	43.44
12.05.2016	19.34	58.12	11.72	368.6	1'932.00	39.18	43.2
11.05.2016	19.36	57.92	12.09	367.9	1'931.00	39.39	44.36
10.05.2016	19.17	59.75	12.33	365.8	1'917.00	39.21	43.34
09.05.2016	19.27	60.34	11.81	363.9	1'902.00	38.5	43.82
06.05.2016	19.19	60.39	11.82	364.6	1'882.00	38.84	44.17
04.05.2016	19.32	60.69	12	366.6	1'896.00	39.31	44.8
03.05.2016	19.42	61.03	12.56	370.3	1'912.00	40.71	47.52
02.05.2016	19.55	61.23	12.77	369.5	1'895.00	41.2	48.62
29.04.2016	19.44	61.23	13.02	368.9	1'888.00	41.67	48.07
28.04.2016	19.57	62.66	12.9	359	1'912.00	41.61	47.92
27.04.2016	19.57	63.11	13.03	353.2	1'922.00	41.54	47.76
26.04.2016	19.44	63.21	12.92	354.2	1'928.00	41	48.08
25.04.2016	19.54	63.75	13.29	355.7	1'929.00	41.14	48.4
22.04.2016	19.44	64.59	13.14	355.2	1'912.00	40.69	49.11
21.04.2016	19.56	65.53	13.37	358.5	1'939.00	41.11	49.92
20.04.2016	19.23	64.64	12.87	357.9	1'942.00	40.26	49.7
19.04.2016	18.56	64.39	12.71	358.6	1'905.00	40.33	49.91
18.04.2016	18.31	63.11	12.37	354.5	1'923.00	39.88	48.63
15.04.2016	18.47	63.55	12.6	357	1'918.00	40.92	49.23
14.04.2016	18.35	64.05	12.69	358	1'905.00	41	48.61
13.04.2016	18.22	62.47	11.82	358.6	1'948.00	39.52	46.01
12.04.2016	17.93	61.78	11.52	353.9	1'901.00	39.12	45.84

11.04.2016	17.84	62.02	11.39	355 1'915.00	39.56	45.39
08.04.2016	17.65	61.18	11.08	350.1 1'901.00	39	45.06
07.04.2016	17.69	61.23	11.21	357 1'904.00	39.49	45.7
06.04.2016	17.52	61.28	11.21	357.8 1'890.00	39.16	46.08
05.04.2016	17.76	62.12	11.43	359.1 1'860.00	39.97	46.42
04.04.2016	17.69	61.97	11.63	355.5 1'873.00	41.1	45.41
01.04.2016	17.8	61.48	11.62	356.7 1'880.00	41.01	44.86
31.03.2016	18.13	61.78	11.82	360.7 1'901.00	41.46	44.94
30.03.2016	17.92	61.53	11.9	357.7 1'912.00	41.13	42.74
29.03.2016	17.87	60.79	12.15	356.1 1'890.00	40.9	43.06
24.03.2016	17.89	60.69	12.39	356.7 1'889.00	41.54	43.46
23.03.2016	18.09	60.84	12.94	357.2 1'850.00	42.28	43.31
22.03.2016	17.95	60.84	12.61	354.5 1'847.00	41.75	42.33
21.03.2016	18.02	61.58	12.66	350.6 1'808.00	42.24	42.78
18.03.2016	18.24	62.57	12.49	353.5 1'915.00	42.22	42.1
17.03.2016	17.95	62.02	12.57	362.8 1'923.00	42.68	41.45
16.03.2016	17.65	62.32	12.81	363 1'900.00	43	42.1
15.03.2016	17.5	62.32	13.27	362.1 1'890.00	43.27	43.42
14.03.2016	17.68	62.66	13.67	371.1 1'891.00	43.73	42.61
11.03.2016	17.4	61.73	13.05	366.6 1'892.00	42.65	41.73
10.03.2016	17.51	61.23	12.95	365.1 1'880.00	42.6	42.54
09.03.2016	17.58	59.55	13.1	362.2 1'882.00	42.78	41.69
08.03.2016	17.57	60	13.3	360.5 1'866.00	42.91	43
07.03.2016	17.6	60.44	13.33	361.5 1'860.00	43.29	42.49
04.03.2016	17.6	60.44	13.34	363.7 1'879.00	42.7	43
03.03.2016	17.61	59.36	13.01	363.3 1'896.00	42.23	41.3

lonza	nestle	novartis	richemont	roche	sgssa	sika	swatch	swisslife
309.7	94.49	95.36	73.74	273.85	2'497.00	142.9	290.9	443.6
310.3	95.23	95.99	73.3	274.7	2'495.00	140.2	289	440
304.9	95.22	95.42	71.6	272.2	2'475.00	137.7	282	434.3
296.2	95.24	94.16	71.58	271.4	2'454.00	137	281	432.7
292	95.18	94.86	71.6	272.85	2'483.00	137.7	282.8	432.2
286.8	94.2	92.5	71.62	270.5	2'448.00	138	284	431.8
284.5	93.86	92.5	70	267.6	2'500.00	137.1	280	426
299.7	95.46	93.32	72.36	270.95	2'583.00	140.5	291.2	437.4
296	94.36	92.4	72.02	269.7	2'543.00	139	290.3	437.5
297.2	94.4	92.52	73.44	269.5	2'610.00	139.3	298.2	442
297.2	94.34	93.22	72.56	270.05	2'600.00	138.5	291.6	443.1
299.3	93.7	93.48	72.32	271.15	2'600.00	138.6	292	443.1
299.3	94.8	92.86	72.56	274.8	2'582.00	138	293.5	442.8
297	93.5	91.74	71.64	272	2'570.00	136.4	293.5	439.2
293	92.6	90.72	71.2	270	2'555.00	135.1	290	435
295	92.88	91	72.24	271.9	2'566.00	135.2	294	436.5
287.5	92.9	90.2	72.38	271.4	2'549.00	135.5	291.2	435.4
286.7	92.68	90.14	71.06	269.8	2'536.00	135.3	290.4	434
292	91.54	90.36	72.6	272.6	2'550.00	136.5	298.3	439.1
292.9	91.68	90	74.32	278.5	2'557.00	137.5	302.5	435
289	90.76	89.24	74.48	277.8	2'561.00	137.6	302.5	435.7
288.8	91.28	88.8	78.18	279.5	2'557.00	138.1	305.3	437.3
280.5	90.84	91.08	77.38	278.95	2'564.00	136.5	299.6	437.2
287.5	89.9	90.98	76.1	276.4	2'530.00	135.4	297.9	430.1
297.1	90.8	91.32	77	278.2	2'537.00	135.7	298	427.6
296.9	91	90.94	75.22	276.4	2'550.00	133.8	293	428.4
288.8	90.9	90.98	74.9	276.5	2'547.00	135.5	286.3	420.5
286	91.68	90.46	73.94	277.6	2'510.00	130.7	281.2	414.5
291.6	90.8	90.78	73.5	277	2'493.00	131.6	286.6	417.6
286.1	89.84	90	72.9	274.05	2'474.00	131.8	283.5	414.6
289	89.4	90.08	72.36	272.95	2'484.00	131.7	286.9	411
292.1	89.38	90.14	72.16	272.35	2'480.00	130.9	284.7	415.1
285.5	88.28	88.7	71.48	270.7	2'478.00	131	283.9	411.1
285.9	87	89.5	73.5	271	2'481.00	132.4	289.8	414.9
283.5	86.4	89.5	70.44	272.5	2'467.00	132.3	285.4	412.4
280.2	86.8	89.04	68.56	270.7	2'447.00	130.7	275.9	413.2
278.5	86.7	88.8	67.66	269	2'418.00	128.5	273.1	407
275.3	86.2	88.14	68.16	265.8	2'404.00	129.5	274.3	404.8
279.6	86.66	89.2	69.8	267.05	2'445.00	131.4	282.4	412.1
281.2	87.06	88.74	70.86	267.4	2'451.00	131.8	287.5	412.6
273.9	86.24	87.92	68.82	264.1	2'381.00	131.6	285	412.5
268.1	86.22	87.02	68.58	263.1	2'407.00	131.4	284.4	412.2
262.3	86.88	87.2	69.04	264	2'392.00	133	285.3	410.5
253.5	86.5	85.74	68.22	260	2'407.00	133.6	285	412.1
257	86.5	84	69.26	255.4	2'397.00	133.5	298.1	416.4
276.7	84.6	84.6	68.5	254.65	2'373.00	133.5	302.8	411
279.5	84	84.7	69.32	256.2	2'361.00	133.1	305.8	410.5
278.3	84.98	86.54	69.9	257.65	2'367.00	133.3	305.7	416.5
278.1	84.9	87.66	68.98	257.15	2'340.00	130.5	304.7	415.7

271.4	84.3	87.9	68.62	256	2'320.00	129.8	303.9	415.2
279.1	84.1	88.22	69.28	257.85	2'286.00	136.1	306.9	417.1
278.1	83.94	88.3	68.96	257.1	2'375.00	135.6	307.4	417.8
280.3	84.38	88.72	67.94	259.15	2'350.00	132.1	304.7	415.9
271.5	82.86	87.12	67.04	255.15	2'293.00	128.1	300	408
276.2	83.66	86.72	67.3	257	2'304.00	129.1	300.7	407.5
278.6	83.28	86.16	67.48	255.8	2'310.00	128.3	299	407.2
279.2	82.82	85.96	67	253.95	2'309.00	128	295	401.1
287.4	83	86.72	67.12	257	2'330.00	130.9	300.1	400
278	81.46	84.7	65.54	252.3	2'256.00	127	293.7	391.5
274.9	81.52	85.04	65.66	254.8	2'300.00	122	295.5	395
265.4	81.12	83.02	64.34	248.05	2'281.00	124	287.4	384.6
263.1	82.28	84.42	64.2	250.55	2'292.00	125.4	288.7	381.3
255.5	81.14	83.72	62.1	250.9	2'222.00	122.8	282.8	380
256.3	80.84	82.6	61.98	243.5	2'195.00	125.7	282.1	375.6
249	78.9	82.2	61.58	237.1	2'183.00	123	281.9	370.7
260	80.56	83.02	63.08	243.65	2'249.00	124.6	292.6	378.1
263.2	80.64	83.84	61.88	244.05	2'195.00	120.6	281.5	374.5
276.7	81.06	84	61.6	240	2'230.00	121.6	284	373.2
285.3	81.56	84.98	62.9	245.75	2'270.00	122.5	283.5	376.5
290.6	82.32	85.54	62	247.7	2'280.00	121	279.1	375.5
300	83.62	87	62.8	249.2	2'321.00	126	283	382.3
304	84.2	87.1	63.64	253.6	2'303.00	126.5	292.7	383.1
312.2	85.3	88	65.68	256.05	2'352.00	126.4	301.4	389.5
307.8	84.68	87.44	64.22	251.4	2'336.00	122.8	291.3	381.7
304.9	83.8	85.78	63.2	249.9	2'314.00	120.6	286.1	378
304.2	84.4	85.9	62.72	250.45	2'309.00	121.5	288.5	379.2
310.6	83.64	87.5	64.1	248.05	2'336.00	123	294.5	380.5
321.3	84.54	89.8	65	252.95	2'340.00	124	298	385
323.1	85.88	91.2	65.66	256.6	2'368.00	124.9	301.8	392.4
329	84.98	91	67.16	259.5	2'405.00	127	310	393
330.2	85.58	91.94	68	260	2'422.00	127	311.2	398.8
319.9	84.82	90.34	65.66	254.8	2'382.00	124.8	300.9	391.6
305.6	84.88	88.6	65.54	252.7	2'342.00	122.7	304.1	387.4
303	84.74	88.5	66	250	2'358.00	122.4	302.3	382.5
304.3	84.54	88.4	66.86	250	2'350.00	124.8	305.5	380.5
304.8	84.52	88.06	66.06	249.8	2'337.00	123.7	303.7	379.8
299.1	83.76	87.22	65.4	245	2'298.00	122	300.3	373.6
299	83.86	88	65.4	247.45	2'288.00	122.5	297.7	375.2
297.8	83.3	87.24	65.34	248.35	2'278.00	121.5	294.2	372.7
298.6	83.1	87.34	65.6	246.05	2'267.00	123.6	305	381
306.3	84.42	88.88	66.7	251	2'314.00	126.7	313.1	384.7
305.4	84.52	88.14	67.28	249.45	2'316.00	130.5	321.5	387
306.5	84.12	87.88	68.28	248.45	2'301.00	129.2	324.8	388.1
309.8	84.7	88.82	67.62	250.7	2'281.00	129	324.2	386.7
317.3	85.14	89.48	68.14	250.8	2'306.00	127.5	323	386.9
330.4	85.5	89.8	69.38	252	2'330.00	130.6	324.3	393.6
328.4	85	89.4	70	249.95	2'291.00	130.1	329.3	386.1
331	84.5	88.5	75	247.4	2'396.00	132.2	345.9	384
325.1	84.46	88	74.88	244.75	2'368.00	130.3	346.7	381.5

326.4	84.4	88.9	75.5	245.9	2'398.00	130.8	345	382.8
322.9	83.72	87.54	76.26	242.45	2'380.00	133.2	355	382.9
324.7	85	88.5	75.5	245	2'389.00	131	350.7	385
317.7	85.12	88	73.72	245.5	2'384.00	129.4	341	378
310.8	84.76	87.18	72.56	242.2	2'351.00	128	337.2	374.9
308	83.68	86.7	71.82	235.7	2'300.00	124.4	331.1	373.5
305.9	83.76	85.1	71.84	235	2'272.00	123	328.8	361.8
297.4	83.56	85.22	69.92	232.4	2'233.00	121.4	321.3	359.1
302	82.52	85.22	68.48	238.1	2'205.00	116.5	314.6	358.8
306.6	83	86.98	70.12	243.8	2'239.00	117.1	323	364
311.5	82.22	85.68	69.6	241.55	2'262.00	120.1	322	365.2
325.8	82.5	87.04	71.34	245.3	2'293.00	122.1	332	374
327.5	79.78	86	70.76	238	2'275.00	124	326.9	367.3
326.7	79.6	83.98	72.3	236.9	2'291.00	127.2	334.8	369.9
322.5	80.36	84.44	74	243.6	2'315.00	128.9	348.4	368
311.2	78.84	82.58	71.52	235.45	2'261.00	126	339.1	365.4
312.6	78.54	81.7	72.22	235.05	2'307.00	126.3	340.7	363.1
313.7	79.1	82.8	73.22	237.1	2'308.00	129.8	345	364.5
306.5	80.26	83.26	71.5	241.1	2'276.00	125.1	336.2	365
317.6	80.8	84.06	76.36	243.45	2'401.00	134.9	363.7	373
320.2	80.86	84.16	75.98	243.65	2'414.00	136.2	363	368.4
324	80.76	84.4	77.28	244.75	2'449.00	140.9	370	371
328.6	81.42	85.24	78.36	244.45	2'473.00	139.7	375.3	375.7
337	82.22	86.24	79.66	243.9	2'572.00	144.2	383.9	369.8
336.9	82.26	85.08	79.88	241.25	2'584.00	145	383.9	368.1
337	82.2	84.5	80.68	237.5	2'604.00	145.4	390.6	369.9
336	81.84	84.56	79.98	238	2'580.00	143.3	390.4	372.8
339	81.18	84.38	79.54	237.45	2'582.00	143.8	389.8	373.1
333.3	80.42	83.4	80	236.25	2'572.00	141.6	390.8	371
326	79.84	82.8	79.98	235.95	2'568.00	142.2	392.3	370.7
311.6	79.72	82.04	80.54	232.95	2'548.00	142.2	388.7	367.7
313.4	80.3	81.46	80.88	235	2'581.00	143.2	392.8	369.1
320.3	81.2	82.5	81.24	236.65	2'557.00	146.2	394.3	366.9
322.1	80.32	81.6	79.02	236	2'547.00	143.6	387	360.8
321.1	80.36	81.6	79.16	237.3	2'562.00	142.1	388.1	357.7
315.7	80.84	81.5	81.3	236.3	2'532.00	141.2	384.4	356.2
315	81.1	82.12	81.46	237.25	2'560.00	140.9	381.9	357.4
316.4	81.24	82.1	81.4	240.1	2'561.00	141.9	381.8	357.2
315.5	81.22	82.1	81.58	239.45	2'551.00	140.8	386	356.3
313.1	80.68	81.82	81.38	238.2	2'550.00	139.9	385.2	356.7
309.5	81.26	81	83	239.6	2'527.00	138.5	388.9	355.7
309.7	80.32	79.9	83.02	237	2'527.00	137.8	387.8	352.2
304.8	79.84	78.4	82.44	235.5	2'520.00	136.5	386.7	351.9
306.6	79.7	79.32	82.62	236.8	2'532.00	139.1	385	350.5
309.9	80.24	80.24	83.9	239.85	2'553.00	142.5	391.3	351.7
314.5	81.58	81.24	85.16	242.25	2'572.00	144.3	400.6	358
312.4	81.12	80.22	85.46	240.25	2'552.00	144	410.5	355.3
314.2	81	80.96	87.3	241.6	2'581.00	145.6	420.6	354
314.6	81.26	81.02	87.96	241.6	2'569.00	145.8	435.1	353.8
315.1	81.24	81.4	88.62	241.65	2'582.00	144.6	443.7	355.8

315.5	81.7	82.3	87.76	242.85	2'595.00	143.3	437.3	356.1
314.5	81.72	82.68	86.82	242.85	2'610.00	140	435.2	353.8
312.7	81.32	82.32	85.64	241	2'599.00	139.6	427.5	350.6
314.2	81.4	82.72	84.72	240.95	2'589.00	139.1	426.7	351
312	81.54	82.64	84.06	242.45	2'585.00	138.6	424	349.6
312.5	81.62	82.72	84.4	241.4	2'577.00	138.8	424.8	347
312	81.68	82.76	84.6	241	2'572.00	139.8	425.3	349
313.2	81	82.2	84.92	240.35	2'573.00	138.9	427.2	351.9
314.2	81.28	81.36	84.28	239	2'560.00	136.6	425.4	351.7
315	80.82	81.46	86.36	239.3	2'584.00	138	438.1	349.3
320	80.98	82.1	86.9	239.8	2'594.00	139	437.4	352.8
318	80.5	81.42	86.82	236.8	2'580.00	138.6	436.8	347.8
317	81.5	82.26	88.1	239.8	2'619.00	139.3	446	351.5
313.9	81.86	82.68	88.64	241.7	2'623.00	139.5	448.8	352.3
312.9	81.86	82.74	88.08	243	2'610.00	140.5	447.3	352
311.4	81.54	82.86	87.04	243.5	2'612.00	140.9	443.2	351.2
309.2	81.5	82.62	87.1	244.75	2'600.00	142.5	444.6	351.8
308.7	81.04	83.44	86.46	246	2'594.00	142	438.7	349.9
305.4	80.56	82.82	86.48	240.6	2'586.00	140.3	440.7	356.8
306.6	81.36	82.74	87.36	241.9	2'590.00	140.4	450	354.1
306.9	81.12	82.8	87.3	242.85	2'581.00	143.1	457.9	350
309.4	81.46	82.84	86.9	241.8	2'601.00	143.1	461.1	348.2
304.3	80.68	82.02	86.84	242.5	2'586.00	142.2	469.4	344.5
295	79.82	81.7	86.16	233.5	2'560.00	139.3	468.1	349.4
284.7	80.6	81.44	86.2	232.65	2'555.00	140	473.3	347.7
285.3	80.98	81.6	87.32	232.85	2'554.00	140.7	475.6	344.9
286.3	80.48	81.36	86.12	232.5	2'529.00	140.3	476	348.7
287	79.5	80.86	85.5	232	2'527.00	140.6	471.8	347.9
288.8	78.94	80	84.88	232.45	2'622.00	138.3	480	349
288	79.66	78.22	83	232.5	2'631.00	136.9	467	345.7
288.4	79.8	79.02	84	231.75	2'650.00	137.4	461.4	345.8
285.6	79.52	78.7	83.28	230.1	2'657.00	137.7	456.5	345
282.6	79.58	76.08	83.34	224.4	2'656.00	136.6	457.6	345.5
281	79.1	76.3	84.42	223.55	2'658.00	135.5	459.3	344.2
276	79.5	76.9	84.44	225.5	2'660.00	136.9	459.1	350
269.8	79.8	76.62	83.04	224.7	2'636.00	135.3	454.3	345.5
268.4	79.5	76.44	82.9	224.75	2'627.00	134.9	454.2	346.9
266.2	79.22	76.28	83.42	223.9	2'625.00	134.1	458.2	344.5
263.9	78.94	74.66	83	221.7	2'626.00	135	461	341.2
262.7	77.6	74.16	83.44	219.95	2'615.00	135.2	466.2	340.8
260.8	76.5	74.74	83.4	218.05	2'622.00	136	466.9	342.1
263.2	76.5	74.46	84.02	218.15	2'622.00	136.4	468.2	344.7
261.7	75.5	72.56	84.02	217.2	2'612.00	135.6	459	341
261.8	75.24	72.82	84.12	216.8	2'600.00	135.3	459.3	343.4
264	74.96	73.7	84.7	219.6	2'553.00	134.6	456.6	342.7
270	74.64	73.84	86.34	219.65	2'573.00	134.8	470.4	344
269.6	73.48	73.66	86.46	215.9	2'560.00	133.5	465.7	337.4
272	74.74	74.12	88.04	217.4	2'573.00	136.7	476	340.9
267.4	74.24	73.44	88.06	211.55	2'567.00	137.8	474	342.5
267.1	73	73.28	89.72	209	2'578.00	141	485	341

271.1	74.3	75.22	91.62	211.25	2'613.00	145.5	493.9	345
275	74.5	75.82	92.58	212.25	2'670.00	145.4	497	352.5
269.9	74.32	74.36	91.6	207.95	2'614.00	147.5	492	347.2
271	74.76	74.94	92.36	209.75	2'650.00	145	490.1	348.4
273.3	74.36	74.66	92.86	210.3	2'650.00	141.33	497.9	350
269	73.76	74.22	92.7	208.9	2'625.00	139.17	493.6	345
265.6	73.3	74.08	90.92	208	2'594.00	136.33	481.8	340.8
269	74.36	74	93.46	210.35	2'625.00	137	495	343.9
266.2	74.42	74.04	92.7	209.65	2'595.00	134.08	492.2	341.5
267.4	75.06	74.54	92.2	213.45	2'604.00	132.42	487.9	345.9
268.3	75.2	74.96	91.7	216.4	2'613.00	133.33	490	347.5
267.7	74.58	73.68	91.3	212.8	2'565.00	132.25	482.4	340.5
269	75.24	74.78	91.5	215.2	2'564.00	132.92	479	345.2
268.8	76.18	74.62	91.86	215.6	2'570.00	132.83	475.9	343
269.5	76.58	75.36	91.12	216.6	2'553.00	134	474.2	351.7
270	76.2	75.78	93.18	218.9	2'580.00	133.83	479.7	355.9
268.6	76.3	76.08	93.1	217.4	2'563.00	131.92	490	352.5
268.8	75.52	76.16	92.34	218.95	2'541.00	132.17	483.1	352.5
270.4	75.76	76.48	92.4	223.5	2'560.00	133.92	492	358.6
268	77.4	76.94	92.98	227	2'566.00	135.25	488.4	359.9
263.7	77.14	77.42	93.98	224	2'536.00	135.67	477.6	359.5
263.1	76.8	77.74	97.02	226.85	2'500.00	136	487.4	357.6
262.3	76.78	77.6	97.08	225.65	2'478.00	136	487.2	358.8
266.3	77.12	78.06	97.2	225.05	2'501.00	136.33	482.8	358.9
267	77.56	77.92	97.1	223.8	2'515.00	138.33	483	361.3
263.2	77.54	77.4	96.6	223	2'518.00	137.5	477.9	359
260.6	77	77.5	95.84	225.35	2'476.00	123.92	475.2	354.9
262.7	77.62	77.54	95.66	226.5	2'448.00	124.42	475	354.1
260	76.54	77.14	95.36	226.4	2'445.00	121.67	471	348.4
247	75.82	76.28	94.74	225.3	2'431.00	120.67	471.6	347.5
246.5	76.1	75.9	95.3	223.95	2'429.00	121.25	481	349.4
243.7	76.74	76.32	94.36	221.85	2'415.00	120.08	477.8	347.8
244.7	76.54	76.16	94.1	218.3	2'424.00	122.5	471.2	346.4
244	76.56	76.1	94.32	217.95	2'401.00	121.58	470	346.9
239.1	75.22	75.2	93.08	218.2	2'373.00	120.33	464.7	343.9
243	75.1	75.44	92.1	218.25	2'385.00	122	464.1	356.6
245.4	75	76.16	93.22	218.2	2'421.00	123.58	467.1	359.7
245	75.02	75.76	92.82	216	2'416.00	122.58	468.3	356.3
245.8	75.2	77.12	93.42	216	2'431.00	123.83	460.6	356.7
241.4	75.66	79.48	94.46	217	2'408.00	124.17	462.4	354.5
242	75.36	79.24	93.82	216.25	2'407.00	124	458.5	350
236.9	74.4	77.88	92.32	216.85	2'373.00	122.67	453	346.1
235.1	74.9	78.42	92	218.25	2'382.00	122.5	453.2	347.2
233.5	76.36	78.64	90.62	218.25	2'380.00	122.17	446.3	344.9
225.7	76.28	77.88	89.16	218.4	2'363.00	121	441.4	340.5
229.1	76.58	78.7	89.14	217.5	2'378.00	122.92	438.7	340.5
229.5	76.32	78.18	88.48	218.8	2'376.00	123.67	437.4	342.6
228.1	75.98	77.78	86.26	217.35	2'368.00	123.58	432	342.6
228.3	75.5	78.36	85.86	217	2'365.00	124.17	430	337.7
223.1	75.12	78.04	86.22	217.4	2'345.00	123.33	425	340.1

222	74.24	76.74	85.14	216.1	2'314.00	124	420	339.7
222.4	75.08	76.72	85.3	218	2'326.00	123.67	418.7	337.5
227.9	75.46	78.04	84.54	220.45	2'345.00	124	420	340.8
224	73.72	75.66	84.8	213.75	2'316.00	122.5	416	334.4
228	73.72	75.8	86.06	215.2	2'332.00	123.33	413.3	338.2
227.8	73.88	75.5	85.62	217.45	2'333.00	122.92	406.4	334.3
226.3	73.62	76	85.4	215.2	2'326.00	122.67	406	334
233.7	74.2	77	87	218.3	2'361.00	125	411	340.9
237.1	75.62	77.74	87.48	220.2	2'390.00	124.33	413.5	344.6
235.7	75.9	77.4	85.9	221.05	2'454.00	124.75	408	342.9
239.8	76.48	77.72	84.94	219.5	2'458.00	126.17	401.1	343.6
235.3	76.5	78.08	84.96	219.8	2'463.00	127.5	396.3	344.3
233.1	76.4	77.82	83.8	221	2'450.00	126.83	393.9	339.4
229.9	76.1	77.84	84.38	227.85	2'447.00	127.17	402.2	336.6
234.8	76.48	78.64	84.34	229.2	2'474.00	128.42	406.4	339.4
235.9	76.54	78.6	84.64	228.5	2'467.00	129.75	405	340
235.7	75.54	78.16	83.5	228.05	2'425.00	127.75	398.2	336.8
232	74.4	76.8	82.46	225.95	2'402.00	126.67	397	333.3
233.2	74.46	76.22	82.52	224	2'374.00	125	392.3	334.1
235.7	75.78	76.8	83.32	226.45	2'385.00	126.42	397.3	337.3
230.5	73.66	77.16	80.52	217.75	2'325.00	122.67	385	329.4
229.5	74	77.9	81	217	2'336.00	124.67	385.8	337.2
239.7	74.98	78.72	82.82	218.55	2'396.00	128.92	396.4	341.6
241	75.44	79.5	83.86	222.1	2'443.00	129.58	400	344.2
245.8	76.34	80.74	85.3	224.6	2'432.00	131.5	410.7	350
240.5	76	79.5	84.5	222	2'414.00	129.5	405.5	341
244.5	75.44	79.78	84.36	222.5	2'418.00	130.75	406.6	339.8
245.1	74.72	79.72	84.7	222.45	2'406.00	130	409	341.1
247.4	75	80.1	84.92	222.65	2'409.00	129.58	410.6	343
242.2	75	79.8	84.82	223.5	2'368.00	127.67	412	341.8
246.9	75.26	80.56	85.8	225.25	2'383.00	130.42	416.1	340.1
245.6	75.48	80	85.28	225	2'372.00	128.67	411.1	336.2
239.3	75.5	79.68	84.7	223.9	2'381.00	127.17	406.2	335.1
231.8	76.78	78.34	84	219.15	2'329.00	126.67	400.4	331.5
230.1	76.88	78.54	84.46	219.2	2'343.00	125	401.3	333
229.6	77	78.46	84.4	219.15	2'351.00	124.83	399.4	332.9
225.3	76.4	78.14	84.3	218	2'339.00	123.75	399	332.5
238.4	77.68	79.6	85.22	219.9	2'397.00	127.83	410.9	340.9
242	77.38	79.52	84.96	218.75	2'370.00	126.67	402	338.8
236.7	77.2	78.8	85.28	217	2'378.00	123.33	397.1	338.5
249	79.02	81.9	87.92	223.1	2'451.00	129	414.4	349
251.5	80.02	83.42	89.48	223.9	2'486.00	133.17	425.7	351.6
262	80.8	84.22	89.5	233.5	2'503.00	135.08	429.9	350.9
260	80.86	85.6	90	231.7	2'516.00	134.33	427.1	352.2
273.1	80.18	86.62	89	230	2'513.00	134.25	415	354
271.6	80.92	87.32	88.78	231.25	2'562.00	137.33	401.3	358.6
268.5	81.1	87.68	88.02	231.3	2'531.00	136.17	399.8	356.7
267	82.08	85.76	88.58	234	2'505.00	137.5	404.9	358
270	83.18	84.3	89.58	235.4	2'519.00	139.42	407.4	358
271.4	82.84	83.54	89.22	236.55	2'575.00	139	408.7	361.9

271.2	82.4	83.28	89.6	235	2'650.00	139.75	407	358.8
262.7	82.5	82.64	88.24	232.35	2'605.00	137.92	400.8	358.2
271.6	83.02	83.64	89.34	234.05	2'621.00	139.17	405.8	360
267.7	82.58	83.14	88.78	234.5	2'599.00	138	405.4	356
265	83.22	83.74	89.32	241.5	2'598.00	139.33	409.5	355.8
265.2	82.56	83.7	89.52	244.3	2'575.00	138.75	406.6	356
265.3	82.5	83.32	89.48	245.75	2'576.00	138.5	408.3	355
267	83	83.92	90	247.9	2'599.00	137.75	407.6	352.9
270.5	84.18	84.68	89.4	248.6	2'605.00	139.42	411.4	350.2
270.1	83.82	83.96	89.78	250	2'595.00	136.67	408.7	349.8
272.3	83.96	84.28	89.92	252.8	2'617.00	134.92	404	351.6
270.3	83.4	83.1	89.5	252.2	2'588.00	133.42	402.9	350.3
270.8	83.42	83.58	89.8	251.25	2'567.00	131.83	404.8	346
265	83.7	82.64	88.4	249.9	2'556.00	130.42	397.1	346.8
263	83.6	82.4	88.85	246.7	2'523.00	130.83	397.5	345
262.5	84.05	82.7	89.5	247.5	2'539.00	131.5	398.3	345.7
261.3	83.55	82.05	89.2	245.5	2'527.00	130.67	396.4	344.5
262.7	83.55	82.55	89.15	245.8	2'510.00	130.42	397.1	346
258.5	82.75	81.55	88.05	244	2'468.00	129	393.8	344.7
262.1	83.5	83.65	88.45	245.1	2'486.00	128.92	394.5	345.1
266.4	84.2	84.1	89.4	245.5	2'485.00	129.25	396.2	344.9
261.5	84.35	84	89.45	245.4	2'480.00	128.33	397	343.8
265.7	85.1	84.05	88.1	242.9	2'481.00	127.08	393	339.1
265.1	85.45	83.45	87.65	240.6	2'468.00	126.67	388	333.9
263.7	85.1	83.25	87.75	240.3	2'457.00	125.5	383.2	329.7
257.6	85	82.95	87.8	240.3	2'469.00	125.58	387.2	333.4
257.9	85.5	83.2	87.5	240.9	2'482.00	125.83	382.9	330.7
252.2	86	82.55	86.95	242	2'473.00	126.25	371.5	330.2
253.2	85.95	82.5	86.6	250	2'461.00	126.92	369.1	329.6
251.2	84.3	82.25	85.75	244.2	2'454.00	124.83	361	327
252.4	84.35	83.5	86.9	245.8	2'447.00	125.75	364.9	332.2
257	84.3	84.05	86.35	249	2'442.00	126.58	365	329.8
257.1	84.05	84.2	84.85	247.6	2'436.00	126	358.5	329.8
254.6	84.75	83.75	84.2	246.9	2'400.00	126.5	358	330.1
258.2	86.2	83.9	84.95	248.3	2'450.00	125.42	357.1	327.5
258.3	85	83	86.05	245.8	2'408.00	124.17	356.5	329
258.4	85.3	83.35	86.85	247	2'403.00	125.67	363.3	334.9
259.8	85.2	83.5	86.9	246.8	2'415.00	124.92	365.7	333
261.2	84	82.9	86.55	246.7	2'388.00	123.58	365.8	333
264.5	84.85	83.45	87.8	245.2	2'420.00	125.58	368.2	334.6
262.9	84.55	82.9	87.95	244	2'430.00	126.83	369	334.6
260	84.05	83.15	86.3	240	2'390.00	123	367	334.6
259.5	83.95	82.6	86.4	228.9	2'414.00	122.58	360.3	337
254.6	83.65	81.9	85.65	227.7	2'404.00	121.42	359.2	336.7
256.2	83.6	81.7	85.6	227.8	2'408.00	121.42	362.7	337.9
256.7	84.35	82.6	86.85	228.6	2'413.00	122.25	367.7	342
258	83.85	82	86.6	228.8	2'419.00	122.5	367.6	347.3
258.5	83.75	81.8	89	228.4	2'418.00	120.83	373.2	345.2
267.5	84.1	82.75	90.9	230.9	2'439.00	123.25	378	351.4
266	83.7	82.25	91	230.3	2'457.00	123	377.7	347.7

267.7	84.35	83.55	92.4	233.9	2'462.00	123.67	383.2	344.3
268	84.45	83.55	91.9	232.9	2'472.00	123.67	390.6	343.8
265.9	83.85	82.8	91.45	232.4	2'470.00	123.33	392.5	347.6
263.8	83.45	83.2	91.85	231.5	2'449.00	121.67	393.7	349.4
265.8	83.95	82.65	91.75	231.9	2'477.00	121.83	399	347.7
264.5	83	81.5	92.35	230	2'422.00	120	392	347.5
267	82.3	80.7	91.6	228.8	2'417.00	123.42	390.6	350
264.6	83.05	81.15	91	229.8	2'419.00	123.33	394.7	355
256.7	81.8	80.5	90.8	227	2'373.00	121.25	398	347
259.8	83	82.05	89	233.3	2'354.00	120	393	347.5
259	83	84.95	88.8	234.9	2'362.00	120	389.4	346.3
257	83.45	84.25	88.45	234.4	2'333.00	119.92	393.5	346.4
256.9	84.4	84.6	88.75	238.7	2'334.00	118.67	391.7	344.5
259.1	83.9	84.65	89.25	243.6	2'344.00	119	395	344.2
260.9	83.75	84.35	88.6	243.6	2'319.00	117.25	392.8	343.3
263.9	84.35	84.4	89.4	243.9	2'326.00	118.33	398.8	344
268.3	84.9	84.05	89.6	243	2'331.00	119.92	393	347.9
268.5	84.5	83.95	89.75	245.2	2'329.00	120.83	395	345
266.1	83.5	84.2	89.6	246	2'321.00	119.42	398.6	343.8
262.6	83.65	83.45	89.2	247	2'326.00	119.58	401	341.3
259.6	83.3	83.8	88.85	246.4	2'321.00	119	401	342
260	82.85	83.9	88.45	247.5	2'314.00	119	397	341.1
260.8	83.45	83.7	89.55	248.3	2'340.00	121.42	400.7	343.8
261.7	83.4	84	89.5	248.7	2'324.00	121.5	406.4	341.5
258	83	84.1	89.8	249.6	2'326.00	122.58	402.9	345.9
258.1	82.35	84.1	88.45	250.3	2'318.00	122.17	404.9	343.8
254.6	81.65	83.15	88.75	247.7	2'325.00	120.08	403.2	342.4
250.6	80.8	82.15	87.2	247.5	2'325.00	120	397.4	337.9
247.4	81.4	82.15	87.35	246.9	2'287.00	119.25	390.6	333.8
251.5	82.8	82.85	86.9	246.5	2'252.00	120.5	386.8	329.5
255.3	81.9	83.4	86.95	248	2'251.00	120.92	384.9	332.6
255.7	80.35	83.25	87.6	248	2'245.00	121.83	384	336
258	81.25	82.7	86.95	249.4	2'261.00	120.75	381.2	336.4
256.1	80.65	83.1	86.4	247.9	2'265.00	120.33	383.2	334
257	81.15	82.55	85.6	244.8	2'263.00	120.25	378	335
252.7	80.95	82.15	87.75	243.7	2'256.00	119.17	375.3	335.8
253.3	81.25	82.65	88	243.6	2'244.00	119.25	375.7	334.4
251.6	81	82.95	86.6	244.1	2'264.00	118.33	370.2	338.7
252.7	81	82.35	86.9	243.1	2'240.00	118.58	374.4	339.8
252	81.25	82.5	88	242.6	2'224.00	119	387.1	345.6
252.9	81.4	81.75	88.45	241.7	2'249.00	118.33	388.9	343
249.6	80.8	81.25	87.45	242.5	2'221.00	116.08	384.8	333.9
245.6	80.55	80.75	87.2	244	2'184.00	115.17	381	332.5
243.3	80.6	80.4	86.45	243.6	2'189.00	113.92	376.8	336.5
243.8	80.45	79.95	85.7	241.5	2'126.00	112.67	375.8	335.3
243.8	80.2	80.2	84.9	242.1	2'138.00	114.17	378	342.9
242.3	80.4	80.2	85.25	242.4	2'130.00	114	383.1	344.1
244.4	81.3	81.15	86.2	243.9	2'145.00	114.92	383.4	344.8
243.3	81.1	80	85.25	241.8	2'129.00	111.92	378.8	346.3
239.2	81	79.7	85.3	242.1	2'117.00	111.67	378.3	341.2

236.1	80	79	84.75	240.5	2'123.00	110.75	372.6	342
236.7	80.5	79.25	85.3	241.6	2'134.00	111.42	377	346.7
238.6	81.2	80.7	85.1	242.9	2'163.00	112.83	378.2	345.8
235.8	81.8	80.7	84.35	242.8	2'152.00	112.75	375.5	346.7
235	82	80.8	83.65	242.4	2'158.00	111.5	373	348
232	81.65	80.45	83	242	2'144.00	112.42	375	349.9
228.7	80.6	79.7	82.05	240.6	2'130.00	110.67	369.6	346.4
232	80.8	80.2	82.25	243.4	2'154.00	112.67	370.6	343.8
231.8	81.35	81.3	82.95	243.4	2'166.00	111.67	375	349.2
230.4	81.95	81.75	83.8	245.5	2'164.00	111.17	379.5	353.9
226.9	82.6	81.7	84.4	244.7	2'160.00	111.42	383.4	354.5
224.3	81.15	80.4	83.2	243.3	2'134.00	110.5	377.1	347.4
220.8	81.15	80.1	82.6	242	2'137.00	108.58	374.5	345.3
224.9	82.2	81.1	83.65	245.4	2'168.00	110	382.4	354
224.6	82.5	81.8	84.35	245.9	2'163.00	110.42	387	359.6
228.7	83	82	85.55	247.7	2'175.00	110.83	395.3	362.6
229.3	83.4	82.5	85.35	249	2'178.00	112.17	398.1	362.1
230.2	82.65	82.15	84.5	246.3	2'161.00	112.33	395.4	361
232.7	82.35	82.65	83.25	246.6	2'169.00	111.17	392.1	361.7
231.8	81.9	82.35	83	245	2'162.00	112	385.5	354.2
232.4	81.4	81.8	82	242	2'150.00	110.67	383	347.1
232	81.35	81.55	80.75	243.3	2'171.00	110.33	375.1	344.3
235	80.9	80.65	79.45	248.2	2'177.00	109.5	369	343
222	82.35	80.8	79.2	241.5	2'174.00	108.75	369	341.4
213.8	81.8	79.75	79	243.2	2'198.00	108.17	365.5	338
215.2	82.6	80	80	243.7	2'210.00	107.25	374	338.2
218.5	83.55	81.7	80	244.5	2'250.00	108.83	359	341.8
218.8	83.9	81.65	80.2	245.8	2'273.00	108.25	364.6	341.6
218.4	83.05	81.25	79.7	243.8	2'255.00	108.08	361.4	340.5
214.9	83.85	81	80.4	244.8	2'258.00	107.17	361.3	342.5
213.9	83.8	80.1	79.85	246.2	2'331.00	107.5	354.2	343
212.8	84	79.85	79.4	244.1	2'351.00	106.5	351.7	343.5
214.1	83.9	80.6	78.95	244.9	2'334.00	106.58	350.1	342.8
210.5	82.3	78.95	78.25	239.7	2'301.00	103.67	349.4	342.6
210	82.5	79.35	78.5	242.5	2'326.00	104.33	352.9	341.5
212	82.25	79.25	78.4	241.7	2'302.00	103.75	356.6	338.2
209.8	82.1	78.55	77.4	241.1	2'285.00	103.42	347.9	336.2
214.8	82.2	80	79.4	243.7	2'311.00	104.08	355.2	335.4
212.4	82.85	79.6	79.15	245.1	2'307.00	102.83	351	334
213.6	83.55	80.4	79.45	246.1	2'319.00	103.33	356.4	331.9
207.3	83.6	80.1	79.5	245.7	2'341.00	103.17	355	324.7
205	83.65	80.25	78.45	245.9	2'306.00	102.58	352.8	323.6
207.3	85.85	82	80.05	252.1	2'344.00	104.08	360.8	326.3
207	85.65	82.4	79.95	251.1	2'346.00	104.17	360.3	321.9
208.2	85.35	83.2	80.45	252.1	2'372.00	105.25	366.1	323.8
209.3	85.5	83.5	80.6	253.1	2'361.00	106.25	369.8	324
207.5	82.15	84.35	80.85	252.1	2'366.00	106.67	370	325
207	82.6	81.5	81.45	253.5	2'380.00	107.75	372.9	328.5
203.6	84.1	79.75	79.95	252	2'382.00	106.08	368	333.6
206.3	83.8	79.9	81.2	254	2'410.00	107.08	374	333.9

204.1	83.55	78.65	80.55	256.4	2'399.00	106.92	367.3	331.4
199.7	81.25	79	80.25	253.6	2'366.00	104.58	366.9	325.3
200.1	80.8	78.75	79.35	250	2'342.00	104.67	368.5	325.6
198.1	80.6	79.1	79.95	251	2'326.00	105.67	368	325.8
198	80.75	78.45	78.85	251	2'307.00	104.83	361.8	324.5
202.2	80.55	78.65	79.05	247.9	2'320.00	104.33	361.4	322.1
199.7	81.2	78.65	79.2	247.6	2'308.00	104.67	360.2	318.9
200.4	82.65	78.5	79.45	248.5	2'300.00	105.25	366	321
201.7	83	78.8	78.95	249.8	2'303.00	105.17	368.2	318.3
206.5	82.5	79	81.55	253	2'319.00	105.67	380.8	323.4
202.2	83.1	79.9	81.15	266.6	2'334.00	105.67	380	325.7
201.1	82.55	79.35	80.9	265.6	2'300.00	103.42	375.1	322.8
203.2	82.45	78.55	80.6	266.1	2'296.00	102.75	377.4	324.5
204.7	82.3	78.35	80.85	265.1	2'306.00	103.08	377.5	323.8
204.9	82.55	78.35	81.25	267	2'315.00	104.08	378.9	321.7
201.7	81.7	79.35	80.55	266.9	2'320.00	103.5	379	322.9
200.5	82.6	79.05	81.35	267.2	2'332.00	101.83	390.1	321.3
199.1	83	79.1	81.3	268	2'347.00	101.67	390.4	321.7
199	82.5	78.75	81.55	268.3	2'333.00	103.08	391	323
194.7	81.55	78.9	81	266.8	2'300.00	104.08	384.1	318.5
191.1	81.3	78.65	79.75	267.7	2'315.00	102.5	382.1	315.5
197.2	81.85	79.75	81.25	269.4	2'339.00	104.42	393	326.1
199	81.15	80.1	82.5	269.8	2'330.00	104.67	396	327.8
199.9	81.5	80.9	82	270.1	2'325.00	104.08	392.1	327.9
199.5	80.65	79.5	81.9	268.6	2'306.00	104.83	400	325
197.6	80.75	79.5	85.9	268	2'300.00	106.42	411	330.5
195.4	80.65	78.75	85	267.8	2'298.00	108.08	406.1	334
190.5	80.2	77.9	84.75	270.2	2'275.00	109.33	407	334.1
187.4	80	77.05	85.15	269	2'256.00	109	413.3	335
184.2	78.7	76.55	84.55	268	2'257.00	106.75	403.5	331.6
188	77.6	77	84.6	265.7	2'274.00	106.67	404	330.4
188	77.1	77.15	83.6	263.5	2'270.00	106.58	401.3	331.9
190	76.95	76.8	83.2	260.9	2'240.00	105.83	395.2	325.3
190.82	77.5	76.6	83.85	258.4	2'253.00	105.5	398.3	324.7
193.13	77.3	75.75	83.75	258	2'229.00	106.33	401.5	323.8
188.5	76.95	75.5	82.7	256.1	2'215.00	105	389	334.1
184.42	77.3	74.85	80.85	255	2'200.00	104.83	377	332.3
178.59	76.45	74.3	80.5	255.9	2'195.00	102.33	370	330
176.74	75.5	73.3	78.45	252	2'175.00	103.17	366	325.1
177.11	75.8	72.65	78.4	253.5	2'160.00	102.5	365.6	319.4
177.57	76	72.8	79.5	252.9	2'158.00	102.33	364.4	322.5
179.98	76.45	73.8	80.35	257	2'187.00	104.42	372.2	326.3
180.07	76.4	74.05	80.95	257.3	2'179.00	104.92	370.5	327.2
177.85	75.95	74.45	80.7	258	2'152.00	100.33	369.5	326.8
177.01	75.3	73.95	79.8	254.7	2'150.00	105.58	359.9	325.6
176.46	75.2	74.5	79.75	257.8	2'164.00	102.83	358	324.9
174.98	76.45	74	78.3	255.5	2'135.00	101.67	355	322.1
175.72	76.1	74.1	77.55	256.8	2'128.00	100.08	349.8	320
174.51	76.5	74.55	78.35	256.4	2'131.00	101.33	356.1	321.2
173.96	76.5	74.25	78.55	256.3	2'144.00	100.42	358.9	321.2

175.07	76.85	74.4	79.4	257.2	2'137.00	100.42	359.9	323.8
175.72	77	74.75	77.7	256.9	2'131.00	100.5	355.9	323.9
170.72	77.5	74.75	78.5	256.9	2'114.00	100.83	352.5	322.7
169.51	77.25	74.2	77.75	255.5	2'112.00	99.33	350.2	319
169.14	77.25	74.15	78	254.2	2'095.00	98.75	352.4	318.8
168.21	76.9	73.25	77.25	250.8	2'090.00	99.08	351.2	315.3
169.7	77.1	74.05	78.05	253	2'100.00	98.58	353	319
168.4	76.9	73.6	76.85	251.3	2'100.00	97.33	344.6	317.3
167.2	76.95	72.8	76	249.9	2'159.00	97.5	340.8	318.4
171.09	77.4	75.65	77.1	253.1	2'161.00	98.75	342.1	323.9
171.18	77.05	75.55	77.9	253.5	2'163.00	98.33	347.9	321.7
170.9	77.1	75.4	78	252.1	2'148.00	97.83	352	323.3
171.27	76.8	75.75	76.65	250.6	2'144.00	98.5	350	324
170.44	76.15	75.75	76.8	259	2'130.00	97.17	347.5	321.8
171.18	75.8	75.85	76.75	259.6	2'129.00	97.83	347.4	323.2
170.99	75.5	76.2	76.35	258.6	2'130.00	96.75	344.1	324.9
168.12	75.4	75.85	75.65	258	2'122.00	95.42	342	325.4
168.31	74.75	75.45	75.95	258	2'093.00	94.92	343.7	322.1
167.94	75.25	74.95	75.6	258.8	2'115.00	94.17	339.7	322.2
169.97	75.2	75.95	75.5	261	2'112.00	93.33	338.9	322.9
170.72	74.3	76.3	75	259.6	2'116.00	93.33	335.8	323.5
171.46	74.6	75.8	74.65	261.6	2'125.00	93.5	333.5	322.7
171.92	74.6	76.25	74.9	262	2'146.00	94.17	337	323
171.36	74.2	78.55	74.3	245	2'150.00	94.83	336.1	317.2
167.84	74.35	78.1	74.45	243.8	2'131.00	94.17	337.1	315
167.29	74.65	77.9	75	245.5	2'138.00	94.42	342	315.1
167.84	74.5	77.75	75.75	245.5	2'141.00	91.5	342.4	317.9
168.86	74.05	77.5	76.6	244.5	2'138.00	90.5	345.4	317.9
167.29	73.25	77.55	76.75	245.9	2'127.00	90.17	347.7	319
166.27	73.05	76.65	75.45	243.2	2'135.00	90	340.4	316.1
166.64	73.7	77	75.15	244	2'139.00	89.75	338	314.4
166.18	72.1	76.4	76.35	242.2	2'133.00	90	338.5	313.6
164.79	71.7	76.05	76.5	241.3	2'129.00	90.83	336.7	315.8
164.51	73.05	75.5	76.3	239	2'124.00	89.67	336.4	314.8
164.51	73.5	75.35	76	239.9	2'114.00	89.58	339.9	311.9
164.42	73.5	75.4	75.4	240.8	2'118.00	90.33	338.7	310.5
164.51	74	75.15	74.8	240	2'098.00	88.75	336	309.1
162.29	74.05	74.25	73.8	238.3	2'091.00	88.75	336	304.9
162.84	73.05	73.9	74.85	238.3	2'076.00	87.67	338.3	307.4
159.32	72.65	73.3	73.9	236.3	2'066.00	87.92	336.7	306.2
161.73	72.9	72.7	75.25	236.5	2'069.00	88.17	345.5	308
162.01	72.4	72.25	75.8	234.4	2'079.00	87.42	353.6	303.2
161.45	72.1	72.15	75.2	236.1	2'065.00	86.25	336	304.3
162.01	72.65	73	77.2	233	2'101.00	87.17	351.2	303
169.14	72.45	71.9	76.25	233.8	2'092.00	86.5	346.4	298.1
169.33	72.9	71.75	76.95	236.3	2'102.00	85.25	350	300
172.75	72.8	71.9	77.4	237.9	2'106.00	84.58	356.1	303.9
172.75	73.25	71.65	78.1	235	2'098.00	83.83	356.1	303.5
172.29	73.45	69.85	77	231.5	2'086.00	81.87	354	297
169.51	73.2	69.85	76.3	231.6	2'056.00	80.83	344.3	295.5

169.6	73.1	70.2	76.05	232.4	2'099.00	79.97	344.6	293.9
169.42	73.35	70.75	76.6	233.9	2'097.00	80.07	348.1	296.3
170.34	73.8	72.2	76.2	236.2	2'089.00	79.7	345.4	293.7
170.16	73.6	72	76.9	236.8	2'097.00	79.63	345.6	293.9
169.6	73.95	71.8	77	234.8	2'107.00	79.58	349	291
170.34	74.4	72.65	77	239	2'146.00	80.08	353.1	294
170.9	74.65	73.45	77.3	237.5	2'145.00	80.42	350.5	296.1
172.29	74.1	73.35	75.25	238	2'117.00	80.08	360	294.5
170.62	74.8	74.75	70.65	244	2'101.00	79.95	330	293.8
170.07	74.6	75.25	70.2	243.1	2'119.00	80	323	297.8
170.44	74.7	74.9	67.8	242.5	2'110.00	79.67	313.4	299
170.16	74	75.05	66.15	242	2'107.00	80.75	310.8	297.5
168.96	73.05	74.05	66.55	238.8	2'096.00	80.85	312.8	297.9
166.36	72.95	74.35	67	238.4	2'097.00	81.5	315.1	297.9
163.68	73.6	74.8	68.25	235.3	2'090.00	82.22	319.2	290.7
163.4	73.6	74.1	67.4	232.7	2'072.00	81.65	317	287.8
162.19	72.7	73.8	67.45	231.9	2'063.00	81.63	316.6	288.5
162.01	73.2	74.05	67.45	234	2'060.00	81.2	314.8	289.8
160.53	72.9	74.1	66.85	233	2'068.00	81.35	315.4	290.3
161.45	72.85	73.85	66.95	231.7	2'070.00	81.4	316.8	288.5
162.1	72.7	73.55	66.6	232.5	2'063.00	80.98	314	286.2
160.25	72.9	73.65	67.3	232	2'061.00	80.55	315.4	287.3
159.14	73	73.9	67.45	232.2	2'072.00	80.98	311	287.2
157.56	72.1	73.45	66.85	233.3	2'059.00	80	308.5	288.3
150.99	72.55	73.75	66.6	233	2'068.00	80.75	308	289.7
145.89	71.85	72.55	66.7	230.7	2'065.00	80.47	312.8	288
158.49	72.35	72.05	67.65	229.4	2'066.00	80.95	314	285.5
154.78	70.8	70.3	67.1	224.1	2'027.00	81.03	316	282.8
162.1	70.85	70.9	66.85	227.9	2'024.00	81.98	316.9	285.6
163.21	68.9	68.55	67.75	220.5	2'006.00	82.5	319	287
164.51	68.05	68.65	67.9	221	2'004.00	82.42	321.2	284.9
166.36	68.6	69.55	67.3	225	2'036.00	82.42	314.2	282
163.95	68	69.65	66.35	222.5	2'030.00	82.22	310.9	278.8
163.68	67.9	68.75	65	222.4	2'016.00	81.9	299.8	273.8
163.4	67.1	68.45	64.65	220.7	2'008.00	82.65	296.2	275.6
168.03	68.25	70	66.1	225.4	2'064.00	82.62	298.4	279.2
166.45	68.25	70.05	65.4	225.1	2'027.00	81.03	296.5	279.7
166.45	68.4	69.95	64.5	226.9	2'005.00	81.67	289	274
167.2	69.2	70.5	64.35	227.1	2'007.00	81.72	292.1	275.1
166.55	67.8	70	64.85	224.5	2'015.00	81.2	289.9	277.4
166.08	67.75	69.7	64.25	223.5	1'998.00	79.97	286.3	276
167.47	67.4	68.7	63.6	224.2	2'011.00	80.15	286	277
168.86	68.5	70.65	64.8	231.5	2'020.00	81.32	291	275.5
170.44	68.45	71.1	66.5	231.8	2'007.00	81.97	298.7	276.6
168.21	69.2	72.8	66.2	234.2	1'994.00	81.92	301.9	277
166.08	69.35	72.3	64.65	231.7	1'967.00	79.88	297.5	272.1
164.88	68.95	72.1	65.05	232.6	1'955.00	80.05	301	275.3
164.79	68.1	72.1	66.1	234.4	1'921.00	80.83	300.7	276
166.27	69.1	73.05	66.5	236.7	1'930.00	81.83	301.3	274.9
169.05	69.3	73.75	66.85	237.9	1'973.00	82.92	297.6	277.6

170.44	70.35	73.4	67	238.5	1'997.00	82.5	300.2	268.5
164.42	70.05	70.75	63.7	228.7	1'951.00	78.67	290	258
167.84	70.95	69.15	68	224.9	2'004.00	78.55	298.4	261.8
166.55	71.15	69	67.8	222.2	2'004.00	77.82	299	256.7
166.08	70.65	67.8	67.5	221	1'975.00	77.85	301.9	254.4
167.1	71.35	69.45	62.1	223.5	1'981.00	77.73	289	253.9
170.34	71.7	69.6	62.8	223.2	1'980.00	80.03	293.8	258.4
174.24	72.1	70.5	63.95	228.5	2'005.00	79.82	297.9	262.6
173.68	72.6	70.6	64.2	228.5	1'999.00	78.5	302.7	260.7
168.31	72.7	71.15	65	229.4	2'006.00	73.43	305.7	259.3
163.58	72.35	70.7	65.5	226	2'050.00	74.98	308.9	258.5
164.05	72.15	72.2	64.95	228	2'106.00	74.87	308.9	257.5
167.1	72.5	74	65.45	230.3	2'123.00	75.78	311.5	259.8
171.27	73.2	75.2	65.7	233.1	2'126.00	77.43	309	257.7
171.27	74.05	75.1	66.05	232.1	2'124.00	75.97	309.2	257
171.83	73.3	75.05	67	232.2	2'130.00	77.65	306.7	258.1
170.81	74.7	75.6	64.85	234.8	2'102.00	77.55	300.1	257.2
168.49	74.65	74.95	64.5	233	2'086.00	78.67	301.5	256.4
168.49	74.9	75.05	65.75	235.8	2'117.00	78.4	309.7	256.3
168.03	74.3	75.25	65.3	234.4	2'101.00	77.3	305.2	252
167.47	74.75	74.8	63.35	235	2'121.00	77.52	289.2	253.9
169.79	75.1	76	63.45	239.5	2'160.00	77.77	292.9	253.7
172.29	75.35	76	61.8	240	2'165.00	78.28	281.8	253
171.64	75.15	76.25	60.05	239.8	2'163.00	78.22	278.5	252.5
171.92	76.3	76.7	59.85	238.6	2'168.00	78.75	276.6	255.3
172.48	76.2	77.15	60.35	241.5	2'180.00	78.72	275.1	255.5
170.72	76.65	77	60.3	241	2'194.00	79.17	274	251.9
173.22	77	76.9	59.15	240	2'167.00	79.67	271.5	252.9
171.36	76.5	77	59.65	242.4	2'164.00	79.17	274.1	250.9
170.16	76.55	76.75	58.7	240.3	2'135.00	77.27	272.6	248.5
172.48	77.5	78.9	60	245.4	2'169.00	80.13	278	254.2
169.88	77.15	78.4	59	244.4	2'160.00	79.17	274	248.9
169.97	76.45	78.2	59.35	243.8	2'158.00	79.9	275.2	251.9
169.79	76.65	78.7	59	243.4	2'156.00	79.35	276	253.3
171.09	77.6	79.4	59.6	244.4	2'194.00	79.97	278.9	255.9
171.18	77.35	79.4	57.9	245.1	2'160.00	79.47	271.3	254.7
171.73	78	79.55	57.65	246.9	2'180.00	79.58	270	253
168.96	77.2	78.35	57.1	241.2	2'167.00	79.13	258.3	249.4
168.68	77	78.3	56.85	240.6	2'150.00	79.5	258.8	248.6
167.75	77.5	77.75	56.9	240.5	2'149.00	78.7	260.1	249.7
168.12	77.45	76.95	57	237.8	2'138.00	78.68	263.1	246.5
168.03	78	77.4	57.5	239	2'142.00	77.77	268	247.7
167.75	77.8	77.5	59.35	240.6	2'159.00	77.12	269.4	249.1
167.1	77.35	76.75	58.3	237.4	2'136.00	78.1	264.7	249.6
171.36	79.15	77.75	60	241.6	2'168.00	78.88	267.6	250.3
173.4	79.3	77.9	60.3	243.1	2'212.00	79.9	268.3	248.5
173.31	79.05	77.8	59.1	243	2'200.00	79.37	263.1	248.4
174.24	79.45	78	59.5	243.2	2'205.00	79.08	262	249.1
173.77	78.95	77.6	58.4	243	2'211.00	79.75	261	248.7
172.01	77.9	76.65	57.45	238.1	2'169.00	79.15	257.5	247.8

172.38	78.4	77.55	56.9	240 2'155.00	78.17	254.6	246.1
172.66	78.15	78.25	57.35	243.5 2'174.00	77.52	255.3	243.5
172.38	78.05	77.8	58.15	242 2'185.00	77.32	255.1	241.7
172.75	77.55	77.2	58.95	240.5 2'166.00	77.15	257.9	240.5
172.85	77.5	76.85	59.15	240 2'166.00	77.07	258.5	241.2
173.96	77.5	77.85	58.75	241.7 2'165.00	77.35	261.2	241.5
174.88	77.8	78.45	59.2	243.3 2'161.00	76.93	264	242.3
173.4	78.35	78.45	59.25	244.4 2'170.00	76.65	266.4	240.5
172.66	78.75	77.75	59.8	243.3 2'168.00	76.6	270	237.9
173.12	79.6	78.75	60.6	244.4 2'169.00	76.68	272.2	239.6
172.29	77.65	78.85	59.45	245.1 2'169.00	76.97	268.1	237
174.42	79.1	79.45	60.45	245.3 2'168.00	76.83	267.5	237.9
174.7	79.6	79.8	60.15	247.5 2'186.00	77.03	267.1	237.6
175.16	79.8	80.1	60.95	248.2 2'195.00	77.82	268.8	238.5
174.42	79.4	80.25	59.75	249.1 2'201.00	78.33	266.9	237
172.66	78.1	80.55	59.1	248.7 2'182.00	77.3	265	238.7
172.29	77.75	81	57.5	248.6 2'157.00	77.32	255.9	231
171.36	77.4	80.7	57.4	247.9 2'144.00	76.28	250.9	226.7
169.6	77.95	81.6	58.2	251.9 2'160.00	76.55	253.6	224.5
171.27	77.6	80.65	57.4	246.2 2'132.00	76.08	249.5	220.4
169.33	76.8	80.2	57.05	244 2'133.00	75.75	250.5	218.5
168.49	77.3	80.05	56.3	246.3 2'136.00	76.07	248.9	218.3
169.51	77.2	81.5	58.05	247.5 2'122.00	76	250	219.8
168.86	77.2	80.2	58.35	245.1 2'147.00	72.47	254.2	219.8
169.14	77.8	81.7	58.95	248.8 2'167.00	73.33	257	223.3
169.42	78.6	82.45	57.15	251.5 2'182.00	72.75	251.2	220.9
168.12	78.2	82.4	57.2	249.2 2'161.00	72	256.1	220.2
167.94	78.1	82.05	57.3	248.8 2'163.00	71.33	253.1	219.4
164.88	77.85	81.8	57.8	249.4 2'158.00	71.18	256	220.1
165.81	78	82	58	254 2'176.00	71.65	264	222.7
166.73	77.85	80.75	57.15	251.8 2'176.00	71.5	260.8	220.6
157.47	77.9	80.45	58.25	252.8 2'186.00	70.9	266.4	222
155.43	77.9	80.55	58.15	252.1 2'217.00	70.25	261.5	220.4
154.69	77.75	80.5	57	256.1 2'300.00	69.63	258	221.4
156.54	77.9	81.2	59.05	255.6 2'294.00	69.72	287.8	223
153.3	77.7	80.7	58	254.9 2'282.00	69.38	285	220.9
152.93	77.85	81	56.35	256.4 2'267.00	69.43	280	217.2
150.34	77.35	81.05	55.8	255.1 2'250.00	69.17	279.1	213.2
148.48	76.85	79.85	55	251.8 2'206.00	68.23	276.5	211.4
146.72	75.95	80.05	55.3	253.3 2'192.00	67.72	274.3	214.4
148.21	75.2	79.4	55.15	251 2'193.00	66.93	274.5	216.9
153.58	75.7	80.35	56.65	254.5 2'212.00	68.5	284.4	223.9
154.97	75.95	80.8	57.75	256 2'249.00	69.02	287.5	229
149.6	75.4	80.3	57.1	257 2'228.00	68.17	283.6	226.4
150.43	74.25	79.45	56.1	253.4 2'192.00	67.17	279.3	224.2
146.72	74.05	78.35	55.6	249.5 2'150.00	67.05	281.4	224.6
145.15	72.5	76.7	55.1	245.1 2'105.00	64.02	276.8	222
146.35	71	75.25	55.7	240.2 2'117.00	65.17	278.2	225.9
144.5	69.6	71.6	55	234 2'050.00	65.5	275	224.7
148.95	71.7	76.75	59.75	245.4 2'162.00	68.82	294	238.9

149.5	72.05	76.3	59.6	246.5	2'149.00	68.27	292.6	237.4
149.5	71.05	75.75	59.2	245.8	2'132.00	68.58	295	237
146.91	70.8	76.05	58.85	245	2'089.00	68.5	292.7	235
143.67	70.5	74.45	57	241.7	2'073.00	66.37	285.1	227.9
144.22	69.8	72.8	56.05	239.7	2'044.00	66.35	281.1	225.7
145.98	70.3	73.75	56.55	241.9	2'062.00	66.67	282.3	229.1
147.09	70.5	74.15	57.15	243.1	2'076.00	67.22	286.5	230.3
148.76	71.55	76	58.15	248.5	2'133.00	68.93	290.2	234.2
153.86	72.95	77.5	60.5	256.8	2'147.00	70.62	302.6	242.1
155.52	73.2	77.85	61.35	256.6	2'168.00	70.82	308.3	247.3
157.38	73.65	78.85	60.1	259.5	2'170.00	71.12	304.9	250.2
157.65	73.75	79.2	59.75	259.8	2'179.00	71.55	298	253.4
157.75	73.5	78.8	59.45	258.1	2'155.00	71.37	295.7	252.9
158.12	73.75	80	58.7	259.9	2'155.00	70.97	294.5	253.8
157.84	73.25	78.8	57.9	260.1	2'149.00	71.4	293.2	256
158.4	73.25	78.65	58.8	260	2'124.00	71.33	290	257.3
157.38	74.05	79.6	59.15	262	2'140.00	71.43	298.3	256.3
158.03	74.15	79.7	59.05	264.9	2'155.00	71.67	296.1	257
157.93	74.05	79.3	59.3	261	2'151.00	71.43	298.8	256.4
157.47	73.3	79.25	57.9	252.3	2'126.00	71.37	292	253.3
157.93	73.75	78.25	57.6	252	2'185.00	71.9	294.2	252
157.93	72.6	76.85	56.5	246.5	2'157.00	71.32	289.3	242.1
158.03	72.6	76.75	58	247	2'155.00	71.47	294	242.8
156.91	72.65	74.5	58.45	244.9	2'137.00	70.35	294	242.4
155.06	72.45	74.35	61.15	243.4	2'115.00	69.58	304.9	239
155.34	72.5	73.95	60.65	243	2'098.00	70.5	299.4	239.9
156.08	73.2	73.65	61	246	2'091.00	69.92	305.3	239.5
154.41	72.45	72.3	60.3	242.1	2'071.00	69.62	307.9	238.5
155.34	72.7	72.9	61.65	243.3	2'091.00	69.67	320	237
154.23	72.15	73.3	62.5	244.2	2'099.00	69.67	325.5	242
151.91	72	72.6	62.3	242.5	2'090.00	68.88	320	238.7
149.32	71.35	71.15	61.95	236.6	2'098.00	69.18	316.3	239
147.09	70.4	71.35	61.75	235.4	2'096.00	67.95	317.9	237.6
148.67	71.05	72.5	62.25	240	2'112.00	68.15	320.9	238.3
149.04	71.55	73	64.45	242.6	2'138.00	67.68	329.6	243.9
148.48	71.9	73	64.25	241.8	2'119.00	67.75	328.5	243.3
148.21	71.8	74	64.1	244.9	2'122.00	67.98	327.5	242.4
149.97	72.15	74.45	64.2	247.2	2'151.00	67.75	328.1	242
149.23	72.3	74.75	64.7	247.3	2'142.00	66.05	327.2	253.4
152.19	72.9	74.95	64.65	250.4	2'165.00	66.67	328.4	255.1
148.39	72.35	75	64.4	250.5	2'143.00	66.7	329.4	254.8
147.09	73.15	74.3	64.7	253	2'132.00	65.75	332	256.1
148.48	74	75	66	254.2	2'160.00	66.3	339.5	259
153.12	73.5	73.9	65.05	254.5	2'145.00	64.17	339.5	259
153.02	72.75	73.8	65.3	252.1	2'112.00	62.5	336.2	257.2
150.8	72.35	72.65	63.9	245.6	2'083.00	63.2	331.2	255.9
150.43	72.5	73.1	64.35	247.7	2'095.00	63.42	333	260.2
153.3	72.1	72.55	64.45	246	2'094.00	63.43	332	261.8
153.3	70.7	72.05	61.85	245.2	2'110.00	64.5	322	256
153.21	69.95	71.4	60.1	242.2	2'091.00	64.18	318	249

153.76	70.75	72.05	60.5	244.4	2'113.00	65.17	317.4	247.8
152.56	72.1	72.05	59.25	244.3	2'098.00	64.17	316	246.5
153.21	71.9	71.8	60.25	243.6	2'092.00	64.95	317.1	248.1
151.26	71.05	69.4	61.4	236.3	2'054.00	63.67	319.2	248.3
150.15	70.75	69.1	61.7	234.3	2'025.00	63.25	322	249.5
150.89	71.1	68.25	62	233.8	2'033.00	62.73	324.5	253.1
149.69	71.55	68.5	61.65	236	2'014.00	63.5	328	254
150.34	72.1	69.8	64.05	236.9	2'021.00	64.42	337.8	257.4
148.85	72.25	70.4	62.4	238	2'019.00	63.73	328.2	258.7
147	71.15	71.2	60.7	234.8	1'981.00	63.08	329.9	256.9
148.85	71.15	72.1	61.95	237	1'971.00	63.2	333.4	257.5
147.74	70.95	72.7	62.65	238.5	1'990.00	62.67	336.3	262.6
147.74	70.8	71.4	63.5	233.9	1'980.00	62.23	335.2	260.8
148.02	71.2	70.05	64.55	234.2	2'001.00	61.5	344.5	256.5
149.04	72	70.5	63.9	237.5	2'000.00	63.17	345	260.9
150.89	71.9	72.2	64.55	245.4	2'006.00	62.5	344.8	263.9
149.13	71.7	72.25	65.15	246.9	1'944.00	63.62	348	263.2
145.98	71.25	72.6	66.4	247.5	2'027.00	63.87	354.4	260.5
143.48	71.4	73	66.55	248	2'048.00	64.17	351	263.2
143.39	71.45	73.05	67.3	247.5	2'018.00	63.9	365.7	258.8
142.93	71.1	72.2	67.25	249	2'021.00	64.17	363.7	257.2
142.56	71.35	71.9	68.25	247.8	2'016.00	63.7	366.5	254.9
142.28	71.2	71.9	66.5	249	2'010.00	63.83	365.3	258.7
142.65	71.2	71.7	65.75	250	2'020.00	63.33	358.5	258.5
142.37	71.2	72.5	65.15	252.4	2'000.00	63.6	355	258.3
143.76	71.3	73.3	65.8	256.7	2'029.00	62.82	354.8	260

swissre	swisscom	ubs	zurich	smi
98.2	489.8	12.4	332	7'950.84
97.66	488.5	12.19	331	7'982.57
97.44	486.5	12.01	329.5	8'019.13
96.98	484.7	11.93	329.3	7'971.15
96.94	485.2	11.92	330	7'975.81
96.88	482	11.86	328.7	7'893.66
96.18	482.4	11.85	327.5	7'998.43
97.84	484.5	12.23	334	8'018.36
97.5	480	12.2	332	7'953.93
99.5	485.4	12.6	338	7'916.43
99.64	484.2	12.54	339.3	7'861.79
100	482.7	12.23	337	7'813.68
99.46	482.2	12.3	334.6	7'849.57
98.4	480.5	12.3	330	7'853.07
97.66	476.8	12.18	326.9	7'894.36
98.38	474.8	12.35	328.2	7'775.58
97.6	474	12.13	326.8	7'797.65
97.16	470	12.06	325	7'845.08
98.42	464.5	12.45	329.3	7'807.89
97.84	462.1	12.48	328.8	7'688.34
98.36	463	12.64	330	7'731.81
99.5	462.7	12.75	330.9	7'673.67
99	463.7	12.78	330.8	7'768.23
98.5	461.2	12.55	328	7'761.35
98.72	461.1	12.51	328.9	7'817.55
98.04	457.5	12.4	326.8	7'751.58
98.42	460.3	12.41	327	7'788.78
98.14	458.3	12.31	325.8	7'934.46
96.98	457	12.47	325	8'021.00
97.18	452	12.86	323	8'014.60
97.04	451.8	13	320.4	8'044.60
97.28	447.7	12.98	322.3	8'152.76
96.08	447.4	12.77	318.2	8'186.97
97.3	450	13.11	320	8'159.67
97.14	448	12.96	320	8'109.44
96.8	450.9	12.82	318.4	8'079.89
96.48	449	12.72	317	8'077.18
95.54	444.7	12.75	316.2	8'096.76
96.44	460	13.02	317.5	8'099.42
96.44	464.9	12.98	315.8	7'960.85
96	458.6	12.78	314.6	7'977.77
95.54	469	12.78	314.1	7'850.68
95.5	478.1	12.96	313	7'752.97
95.88	486.9	13.15	314	7'735.60
96	487.3	13.09	313.9	7'824.95
95.4	485.8	12.75	311	7'934.93
95.3	483.2	13	312	7'937.88
96.56	487.6	13.07	314.8	7'885.85
95.16	487.5	13	311.3	7'925.76

95.3	483.1	12.91	311.4 7'906.76
95.28	484.5	12.75	313.7 7'973.93
94.64	487	13.53	314 7'908.79
94.28	490	13.48	310.3 7'997.30
92.9	483.5	13.26	304.2 8'038.46
92.98	480.7	13.1	303.5 8'125.24
93.96	485.5	13.16	306 8'167.61
93.32	484	12.9	303.4 8'229.55
93.5	480.9	12.9	304.5 8'292.45
91.74	477.3	12.51	298.3 8'277.83
91.52	478.5	12.85	300.8 8'216.42
91.14	480	12.77	296.3 8'185.53
91.5	482.7	12.79	298.7 8'205.82
90.26	480.5	12.34	294 8'148.40
89.38	470	12.22	293.1 8'165.98
88.12	457.8	11.88	286.1 8'215.78
90	474.8	12.38	293.2 8'143.76
88.6	475.6	11.86	290 8'076.35
88.22	472.5	12.06	289 7'922.71
88.44	473	12.25	291 7'782.35
88.32	477.3	12.26	291 7'638.77
89.22	477.2	12.43	297.4 7'679.49
89.5	472.5	12.45	299.5 7'634.66
90.78	482.5	12.7	300.2 7'713.61
89.54	478.2	12.32	297.3 7'900.22
88.52	469.6	12.39	297 7'935.75
88.6	473.6	12.48	298 7'972.14
88.56	472.5	12.75	300 8'023.05
90	476.7	13.01	305 7'747.18
91.1	477.2	13.2	312.6 7'594.49
91.72	476.5	13.67	314.5 7'773.80
92.62	484	13.89	317 7'978.96
91.42	475.9	13.62	313.8 8'020.15
91.12	476.8	13.64	311.6 8'085.21
91.9	476.9	13.75	312.9 8'056.71
91	474.9	13.74	311.1 7'941.67
90	463	13.64	308 7'898.21
88.44	460.4	13.4	303.6 7'964.23
89.1	462	13.54	306.5 8'037.94
88.18	460.4	13.34	303.6 8'117.11
88.2	463.3	13.48	305.2 8'143.13
89.9	463.3	13.7	309.5 8'142.33
90.24	461.5	13.85	312.6 8'174.02
90.46	462.6	13.8	312.8 8'156.26
91.06	463.3	13.7	311.3 8'161.60
90.94	461.1	13.83	311.9 8'111.48
92.56	464.8	14.2	315.5 8'197.43
91.88	461.3	14.28	313.7 8'182.45
90.76	460	14.26	314.5 8'194.73
90.16	457.4	14.2	311.8 8'194.41

89.76	460.3	14.25	312.7 8'227.20
89.02	457.8	14.3	311 8'221.33
91.06	459.1	14.4	315 8'095.07
91.22	455.2	14.09	312.2 8'127.20
90.18	459.4	13.85	310 8'011.24
89.2	455.4	13.54	306.9 8'010.10
87.3	443.5	13.32	299.6 8'081.14
87.08	441.7	13.25	299 8'194.34
87.36	444.2	13.26	298.1 8'168.84
88.4	442.7	13.5	301.2 8'229.42
89.64	443.2	13.58	304.1 8'208.90
91.48	452.7	14	309 8'296.14
89.58	449.4	13.88	303 8'295.04
88.5	447.6	14.16	304.3 8'305.28
89.48	446.2	14.2	304.6 8'215.45
88.46	436.9	14.14	302.8 8'153.80
87.76	430.2	14.13	302 8'189.73
89.42	434.4	14.25	305.4 8'127.28
89.38	432.8	14.24	308.4 8'157.85
92.5	432	14.69	314.1 8'201.61
92.22	429	14.79	310.4 8'199.83
92.58	431.4	15.01	310.4 8'141.28
92.6	433	15.34	311.8 8'168.32
91.28	435.2	15.2	308.9 8'184.09
90.74	432.8	15.29	309 8'236.01
90.8	444	15.27	310 8'202.13
90.7	445	15.48	310.1 8'142.64
90.7	450	15.67	310.7 8'294.30
90.62	447.8	15.75	310 8'310.37
90.6	443.5	15.83	309.3 8'304.34
90	442.8	15.91	307.8 8'320.99
89.8	445.7	15.84	307.3 8'315.20
89.64	445	16.05	307.9 8'264.13
88.62	446	15.4	302.9 8'206.20
88.3	445.2	15.12	300 8'174.73
87.74	443.5	15.1	298.6 8'162.65
87.66	438.8	15.02	298.1 8'184.84
87.52	440	15.07	299.4 8'130.44
87.32	438.8	15.05	299.7 8'195.71
87.24	436.1	15.15	299 8'237.54
88	436.4	15.2	300 8'226.47
87.64	431.5	15.15	297.6 8'307.63
88.06	434.1	15.26	296.5 8'272.89
87.8	429	15.39	295.3 8'165.05
88.12	430	15.16	294.8 8'175.42
88.84	436.6	15.29	298 8'220.07
87.3	432.6	15.16	296 8'164.20
87.98	434.3	15.25	297.2 8'139.01
88.22	439.8	15.37	298.9 8'166.32
87.82	441.8	15.46	298.9 8'230.73

87.94	447.5	15.53	300.5 8'195.23
87.4	445.8	15.47	299.8 8'170.44
87.26	446.9	15.31	297.3 8'124.59
87.3	448	15.44	297.4 8'172.22
87.02	446	15.5	296.9 8'135.15
86.98	447.1	15.4	295.2 8'068.56
86.98	451.1	15.4	296.8 7'999.93
87.76	454.1	15.54	298.3 8'089.91
87.26	458.1	15.44	296 8'000.96
87.24	461.2	15.47	296 8'074.69
87.8	460.6	15.53	299.1 8'093.78
87	460.7	15.4	296.9 8'069.27
87.32	466.1	15.84	300.6 8'034.86
87.62	466.9	16	299.6 7'991.88
87.8	469	15.94	302 7'929.87
88.06	469.8	15.91	301.3 7'892.77
88.98	470	16.11	301.9 7'924.39
89.1	465.9	16.07	301.7 7'908.57
90.84	463.8	16.3	304.5 7'827.74
90.5	468.2	16.22	302.1 7'761.34
89.1	465.7	16.1	301.1 7'700.41
89.1	455.6	16.05	300 7'640.94
88.78	449.5	16.08	298.9 7'593.20
89.24	448.3	16.19	299.1 7'735.22
89.04	451.7	15.7	299 7'744.03
88.5	448.8	15.25	296.9 7'897.84
89.3	445.8	15.36	300.3 7'928.77
89.44	443.8	15.33	300.5 7'880.29
89.18	446.9	15.16	299 7'900.57
89.02	447.4	15.1	297.4 7'909.20
88.52	451	15.03	297.8 7'914.02
88.4	454	15.04	298.4 7'964.68
87.66	453.6	14.97	295.5 7'904.55
87.42	454.5	15.03	295.7 7'849.86
87.98	458.9	15.24	298.7 7'741.82
87.48	460	15.19	296.7 7'752.24
87.28	456.1	15.18	296.5 7'798.50
86.94	454.1	15.06	293 7'881.53
86.24	447.6	15.03	293 7'823.23
86.14	442	15.14	291.2 7'845.01
85.7	442.3	15.13	291.8 7'875.19
85.4	444.9	15.32	293.6 7'779.11
85.02	444.7	15.15	291.6 7'784.01
85.44	442.9	15.09	292.9 7'845.68
85.46	446.7	15.08	292.9 7'912.39
85.98	444.8	15.33	296 7'930.25
85.3	436.3	15.11	293.3 7'953.68
86.6	437.7	15.3	297 8'099.63
86.6	436.3	15.18	296.4 8'040.09
86.26	436.1	15	293 8'162.53

87.7	442.1	15.38	296 8'140.41
89.12	444.6	15.77	300.6 8'214.30
87.62	443.6	15.57	297.3 8'227.72
88.98	450	15.71	302.3 8'234.49
89	449	15.8	302 8'243.00
87.84	444.7	15.41	297 8'233.45
87.2	441	15.2	294.9 8'237.98
87.14	443	15.36	295.4 8'232.64
87.2	443.6	15.1	296 8'259.45
87.64	446.4	15.45	297.2 8'256.61
87.82	444	15.48	298.4 8'251.13
85.9	442	15.25	295.9 8'219.87
87.98	444.3	15.37	297.2 8'316.18
87.5	441.8	15.32	296 8'354.81
90.24	447.2	15.64	303.2 8'392.49
91.08	446.3	15.86	307.7 8'417.46
91.2	450.9	15.92	308.2 8'424.86
91	451	16.05	306.4 8'449.19
94.26	452.3	16.27	311.2 8'427.15
94.9	452.9	16.1	315 8'375.02
94.54	454.7	16.14	315.9 8'452.19
94.32	451.8	16.07	313.7 8'362.60
94	454.5	16.25	314.9 8'304.10
94.1	456.7	16.29	313 8'312.42
95.14	461.5	16.49	316.7 8'273.08
94.94	459.6	16.3	318 8'275.13
94.46	459.6	16.04	317.5 8'229.01
93.76	459.3	16.01	317 8'246.66
92.98	455.9	16.05	317.7 8'387.55
93.66	456.6	16.44	316.5 8'405.48
93.1	458.1	16.57	319.6 8'379.57
94.5	473.6	16.69	316.7 8'320.83
94.72	473.9	16.61	317 8'291.69
94.38	474	16.7	317 8'329.17
93.84	466	16.46	313 8'276.70
94.06	463.6	16.62	313.4 8'350.84
93.7	466.2	16.75	314 8'330.93
97.5	462.3	16.8	313.1 8'370.14
97.3	457.8	17.18	313.2 8'378.73
96.36	455.5	16.94	315 8'437.54
96.04	456.1	17.01	313.4 8'456.22
95.52	453.9	16.86	309.8 8'462.88
95.66	455.2	16.94	308.5 8'426.15
94.9	452	16.89	307.4 8'486.27
94.2	449.1	16.69	302.2 8'467.52
94.74	452.5	16.66	298.7 8'506.49
95.14	454.3	16.7	300 8'514.52
94.2	452	16.58	298.6 8'567.18
93.86	454.4	16.65	295.7 8'585.85
94.12	470.6	16.5	312 8'569.36

94.96	465.3	16.53	310.9 8'525.62
97.12	471.2	16.6	313.9 8'520.56
98.12	475	16.86	316.6 8'545.81
93.02	465.6	16.5	313.4 8'634.70
94.74	467.9	16.83	316 8'661.63
93.7	467.9	16.65	301 8'670.06
93.56	463.7	16.55	303.1 8'664.80
95.06	470.9	17.21	309.5 8'623.97
96.46	478.6	17.61	312.8 8'626.65
95.6	503.4	17.4	311.6 8'639.70
96.62	505	17.55	314.5 8'669.97
96.92	507.8	17.54	314.2 8'683.05
95.98	508.6	17.34	309.6 8'663.54
96.3	506.2	17.26	310 8'688.86
97.02	510.2	17.57	313 8'667.48
97.2	513	17.5	311.7 8'698.53
96.44	507.8	17.38	309 8'695.04
96.08	505	17.31	304.2 8'614.86
95.4	506	17.25	304.6 8'567.88
96.18	513	17.51	309.1 8'628.64
93.3	499.2	17.06	299.5 8'613.64
95.16	501	17.52	305.2 8'594.54
96.02	510.6	17.9	311 8'597.02
97.36	512.2	18.2	313.1 8'661.53
98.5	517.8	18.25	314.4 8'704.39
97.7	515	18.12	313.8 8'658.89
96.3	511.6	18.04	311 8'633.86
95.9	506	18	312 8'646.99
96.12	511.4	17.94	312 8'640.51
95.46	511.2	17.8	309.7 8'638.37
94.8	515	17.92	309.3 8'640.91
95.14	511	17.74	309.8 8'616.68
95	511.6	17.71	308 8'641.55
93.78	505	17.48	304 8'663.77
93.34	501.2	17.46	302.3 8'629.02
93.1	495.4	17.62	304.3 8'529.28
92.18	497	17.55	303 8'532.27
96.1	506.4	18.07	313 8'557.87
89.18	495	17.85	298.3 8'553.99
89.72	490	17.63	297.4 8'711.32
91.6	505	18.62	305.7 8'775.24
91.42	508	19.01	306.6 8'830.29
91.92	510.4	19.05	308 8'844.78
92.88	510.6	19.05	308.4 8'812.67
93.2	511.2	19.17	313.1 8'868.56
93.8	520.6	19.48	316.7 8'891.89
94.04	515.8	19.32	315.4 8'980.02
94.5	518.2	19.4	316 9'016.66
94.62	521.4	19.6	315.8 9'039.61
94.7	525	19.5	318.6 9'113.83

94.22	520	19.3	317.2 9'089.80
94.26	518.4	18.98	319 9'064.88
93.8	518.4	18.92	316 9'123.41
93.28	518.2	18.66	312.5 9'108.25
93.18	519	18.83	315.8 9'127.61
92.8	520.8	18.91	315 9'001.60
92.26	520	18.8	311.5 8'938.37
91.84	523.6	18.55	308.6 9'022.51
91.64	529.4	18.59	308 9'084.78
91.5	526.4	18.48	301.3 9'061.76
92.48	526.4	18.43	301.2 9'035.09
92.16	524.8	18.59	299 9'042.03
91.48	520.8	18.4	297.1 9'031.96
92.24	521.6	18.12	298.7 9'007.54
91.3	520.5	17.94	297.8 9'016.64
92	520.5	17.99	298 9'024.92
92	518.5	18.07	298.7 9'043.96
91.75	518	18.15	299.5 8'908.27
91.3	514	17.92	297.5 8'876.73
91.75	522.5	18.15	300 8'811.62
92.6	524.5	18.16	303.9 8'845.85
93	523	18.04	304 8'807.85
92.1	521	17.87	301 8'867.07
91.35	517.5	17.69	300 8'849.40
90.85	517.5	17.61	297.9 8'853.01
90.55	517	17.6	297.5 8'963.29
90.6	519.5	17.36	296.9 9'030.30
91.15	524	17.02	298.5 9'023.55
90.15	520.5	16.86	296.6 8'985.61
90.05	517	16.83	295 9'051.27
92.05	524.5	17.14	297.1 9'032.89
92.2	521.5	17.19	296.9 9'121.22
92.05	519	16.92	296.2 9'072.92
92.75	515	16.99	296.1 9'076.73
92.1	514	16.99	294.6 8'944.04
91.45	510.5	16.78	293.5 8'906.89
92	510.5	16.89	296.5 9'009.81
91.95	510.5	16.89	296.6 8'971.40
92.2	508.5	16.85	296.1 8'954.10
92.75	508	16.94	298.7 8'886.95
92.25	509	16.92	298.8 8'883.27
92.65	505	16.85	298.3 8'943.84
92.4	507	16.89	297.2 8'874.07
92.15	506	16.81	298.3 9'015.60
91.9	505	16.8	297 9'003.57
92.5	505	16.92	300.1 9'034.57
92.95	503	17	301.7 9'038.65
93.2	506.5	17.02	303 8'977.98
93.6	507	16.95	301.3 9'024.32
93.3	503.5	16.93	302.1 9'027.37

93.75	506	17	302.4 8'938.68
93.1	500.5	17.02	302.9 8'898.23
93.6	502	17.17	305.5 8'937.90
94.5	500	16.85	305.2 8'990.34
94	505	17.01	305.5 9'017.79
93.4	500	16.86	302.6 9'019.31
93.8	499.4	16.96	302.9 9'055.00
94.6	497.7	17.41	303.3 9'122.68
91.05	494.4	17.05	295.8 9'136.61
91.5	496.1	17.2	298.1 9'176.99
91.8	497.9	17.11	296.9 9'155.13
92	494.2	17.1	297.5 9'162.33
91	498.1	16.97	295.7 9'027.15
90.1	497.9	16.96	293.7 8'949.86
90.3	499.1	16.88	293 8'884.04
91	502.5	16.9	295 9'031.27
91.45	502	16.86	295.5 9'012.52
91.35	501.5	16.86	296 9'037.92
90.4	500	16.68	295 8'945.40
90	498.1	16.79	295.7 8'874.35
89.65	497	16.71	294 8'883.78
89.9	496	16.79	294.4 8'963.83
89	497.8	16.78	295.3 8'958.49
88.3	491.7	16.56	293.5 8'943.04
88.5	494.8	16.72	295.6 8'906.18
88	496.3	16.65	295.1 8'864.23
87.8	496.3	16.6	296 8'814.54
86.1	492.7	16.42	289.7 8'851.26
86.25	493	16.48	287.2 8'925.45
84.9	494.9	16.23	284.3 8'941.62
85	493.9	16.21	285.3 8'864.46
86	488.9	16.36	287.1 8'869.56
85.65	488.4	16.47	288.1 8'859.47
84.95	491.4	16.34	289 8'906.66
84.95	488.9	16.21	287.5 8'912.05
85.15	481.9	16.15	286.9 8'982.23
86.15	483.8	16.15	288 9'053.62
87.35	483.7	16.06	291.9 9'053.83
86.8	479.7	16.04	290.2 9'071.43
88	481.3	16.01	291.6 9'028.05
87.25	482	15.8	291.1 9'048.11
86.5	478.5	15.69	281.5 9'093.20
82.5	475.4	15.48	279.9 9'095.65
83.5	476	15.64	281 9'134.13
83.85	475.4	15.43	281 9'136.72
85.85	477.3	15.74	285.8 9'140.47
86.3	479.7	15.68	285.4 9'113.65
87.1	483.6	15.81	286.6 9'098.58
86.5	480.7	15.95	287.1 9'112.16
85.75	476.3	15.84	286.5 9'157.46

86.3	475	15.9	287 9'242.15
87.45	476.4	16.01	290.8 9'283.74
88.4	482	16.08	292.2 9'283.97
88.5	482.1	16.1	293.3 9'262.66
88.75	484.2	16.08	293.4 9'252.12
88.25	482	16.25	292.7 9'259.34
87.4	474	16.17	291.3 9'267.17
87.45	475	16.18	291.7 9'265.34
88.3	482	16.48	294.8 9'297.34
89	480.9	16.7	296.2 9'311.69
89.5	481.5	16.66	295 9'274.59
88.65	473.9	16.48	290.8 9'269.86
88.1	475	16.4	291 9'309.61
90.25	479	16.6	295.3 9'233.52
91.1	480	16.76	295.2 9'237.13
92	483	16.97	298.5 9'248.49
91.95	481	17.02	297.2 9'194.84
91.9	479	16.95	298.2 9'084.04
94.25	477	16.9	298.1 9'200.08
93.7	473.3	16.95	295 9'183.42
92.7	470.9	16.95	292.4 9'175.50
92.5	472.9	17.02	291.6 9'242.18
92.05	472.3	17.24	289.9 9'267.82
91.7	466.4	17.21	289.9 9'279.65
90.5	466.2	16.99	285.7 9'322.05
90.9	469.9	16.8	285.4 9'288.78
91.15	472.8	17.02	288.6 9'220.16
90.55	471.8	16.96	288 9'265.83
90	468.9	16.84	287.5 9'177.82
90.4	467.5	16.78	288.8 9'134.16
90.35	465.1	16.9	291.3 9'162.74
90.65	466.8	16.87	291.1 9'130.48
90.45	467.4	16.76	289.5 9'089.55
90.45	463.2	16.85	287.7 9'146.82
91.3	464.9	16.95	289.5 9'183.61
90.8	464.3	16.9	287.6 9'299.61
90.6	463.7	16.69	286.6 9'324.53
89.7	466.7	16.71	285 9'291.84
89.25	468	16.66	283.4 9'315.56
88.9	466.6	16.7	283.9 9'325.60
88.2	465.7	16.32	280.5 9'264.39
87.6	463.9	16.37	275.9 9'320.44
88.75	465.9	16.4	278.9 9'304.42
88.6	465.1	15.99	281.5 9'318.77
89.4	468.3	15.73	284.2 9'274.55
89.35	469.2	15.8	284.2 9'328.63
89.25	467.8	15.69	286.1 9'288.92
89.45	467.6	15.77	289.3 9'309.99
90.15	467.9	15.66	290.7 9'270.57
90.1	469	15.97	293 9'319.16

88.95	467.1	15.9	290 9'314.76
87.75	462	15.71	287.9 9'361.41
88.45	460	15.63	286.2 9'394.55
88.25	458.2	15.81	286.7 9'383.02
88.05	458.1	15.51	285 9'394.71
87.35	457.2	15.5	284.7 9'452.32
87.25	459	15.36	282.9 9'399.17
87.35	460.5	15.5	282.9 9'314.83
87.55	461	15.38	283.3 9'424.67
88.45	463.9	15.44	283.6 9'394.49
89.1	466.7	15.69	286.4 9'430.44
88.15	464	15.43	284.8 9'405.80
87.9	462.9	15.64	282.6 9'381.87
88.15	464.2	15.79	285.1 9'478.92
87.7	464.2	15.8	284.3 9'509.28
87.65	464.2	15.89	285.9 9'556.98
87.45	464	16.04	286 9'541.73
87.85	463.2	15.95	286.5 9'611.61
88.45	457.8	16.04	286.2 9'524.96
87.7	452.5	15.89	284.4 9'503.85
87.65	451	15.82	281.5 9'546.61
89.4	456.5	16.19	284 9'537.28
89.5	456.2	16.25	282.3 9'464.05
89.9	457.5	16.84	281.8 9'440.01
89	452.7	16.76	280.8 9'452.35
90.2	456	17.12	280 9'509.77
90.35	453	16.88	278 9'529.13
90.2	454	17.02	277.9 9'551.58
89.8	449.8	16.9	278 9'547.57
88.9	446	17.33	275.1 9'482.96
88.5	445.6	17.25	275 9'515.56
86.95	436.5	17.1	273.3 9'457.27
86.5	434.8	17.11	275.4 9'433.34
86.55	437.3	17.14	272.3 9'335.40
86.75	438.5	16.65	272.4 9'290.92
87.25	440.6	16.51	273 9'220.69
87.25	437.3	16.37	271.3 9'100.39
90.4	439.7	15.97	269.1 8'836.71
88.6	437	15.55	264 8'975.01
88.1	435.5	15.36	263 8'763.11
88.65	433.5	15.23	263.3 8'682.00
89.5	436	15.49	267 8'822.18
89.35	437.6	15.49	267.5 8'752.64
90	436	15.77	269.3 8'899.10
89.6	436.7	15.75	267.1 8'917.80
90.2	438.8	15.79	268.9 8'986.72
89.8	436	15.59	267.3 8'908.65
89.5	436.8	15.52	264.5 8'981.39
89.5	437.2	15.79	265.5 8'988.99
89.7	461.1	15.75	263.2 8'967.43

90	462	16	267.8 8'948.19
90.1	458.3	15.93	265.7 9'026.11
89.2	457	15.8	282.8 8'992.52
88.85	458	15.71	283.6 8'906.38
89.4	455.1	15.5	284 8'792.38
88.8	455.1	15.35	284 8'628.51
89.9	459	15.56	286 8'808.38
89.65	457.6	15.57	284.7 8'765.88
90	455.9	15.67	284.5 8'784.84
91.3	459	15.86	287.6 8'896.42
90.5	460	15.86	287 8'931.85
91	450.3	16.11	286.2 8'970.74
91	449.9	16.15	285 8'880.92
89.55	448.7	16.02	284.1 8'869.33
90.1	446.1	16.02	284 8'878.98
90.3	449	16.13	283 8'882.53
90.35	445.7	16.07	282 8'811.33
89.85	441.7	15.81	281.2 8'847.29
90	444	15.85	280.9 8'783.70
90.4	445.5	15.93	283.4 8'637.87
90.55	445.1	15.93	284 8'569.08
90.1	445	15.82	280.9 8'509.29
90.55	444.3	16.15	281.2 8'638.42
90	444.5	15.62	278 8'756.12
90	448.7	15.49	276.4 8'740.97
91	450	15.37	275 8'630.93
91.5	452	15.59	278 8'553.69
91.2	451.9	15.61	279.9 8'742.60
93.1	453	15.97	282 8'671.04
93.15	452.5	15.94	279.8 8'687.08
93.45	449	15.98	280.6 8'755.57
92.95	446.4	15.94	278.5 8'708.44
92.15	443.4	16.12	281.5 8'774.76
94.25	442.8	15.99	283.3 8'776.17
94	442.1	15.95	280.5 8'726.54
94.25	444.8	15.96	280.2 8'820.04
95.15	446	16.06	281 8'831.88
94.1	440.7	15.86	284 8'833.18
94.05	455	15.84	285.1 8'807.80
93.6	432.1	15.83	283 8'806.63
94.45	433	15.96	286.7 8'796.91
93.65	431.7	15.77	283.4 8'740.96
93.3	432	15.9	285.2 8'835.03
92.5	436.9	15.95	285.4 8'843.02
92.3	434.1	16.14	284.4 8'886.26
93.6	437.3	16.25	289.3 8'896.28
94	438.4	16.71	288.6 8'842.29
94.3	439.9	17.25	288.3 8'903.83
93	437.6	16.98	281.5 8'978.65
92.15	439.8	16.6	278.5 8'944.90

91.55	441	16.55	276.5 8'984.10
91.9	446.6	16.73	277.3 8'993.51
92.7	449.9	16.59	278.4 9'000.89
93	453.6	16.8	279.8 8'994.22
93.3	452.5	16.9	281 8'973.88
95.5	456	17.18	283.2 8'988.33
95.85	463.5	16.8	282.2 8'940.46
95.55	459.3	16.85	281 8'936.07
95.9	461.4	16.84	283.5 8'794.94
96.15	464.9	16.68	285 8'770.94
97	468	17.02	286.4 8'759.08
97.05	466.6	16.96	285.1 8'775.45
98.3	460.7	17.07	284.7 8'637.20
98	453	16.95	287.7 8'578.68
97.15	459	16.17	282.5 8'456.95
96.4	456.3	15.89	280.9 8'618.54
96.5	453.3	16.1	280.1 8'634.42
97.4	456.8	16.16	281 8'538.31
96.95	455.4	16.11	281.9 8'544.99
96.4	450.1	16.25	280 8'548.33
96.1	451.3	16.4	279.7 8'512.06
96.8	452.9	16.53	279.6 8'623.54
96.8	453.5	16.45	279.9 8'640.80
96.55	447.3	16.6	279.1 8'634.61
96.55	448	16.7	278.4 8'690.83
96.2	446.7	16.64	276.7 8'642.60
96	448.2	16.83	278 8'519.57
94.95	442.3	16.81	277 8'463.41
95.95	448.4	17.06	276.4 8'557.51
95.85	437.7	17.55	277.3 8'459.93
96.05	439.9	17.42	277.1 8'616.56
96.15	439.5	17	271.1 8'458.70
94.5	433.7	16.3	267 8'477.98
93.35	430.9	15.73	261.6 8'504.50
91.55	428	16	261 8'461.71
93.3	434	16.08	265.8 8'609.30
93.1	434.2	15.62	265 8'529.59
91.5	432.7	15.62	262 8'625.49
93.05	434.2	15.9	267.7 8'663.53
93.35	432.8	15.97	268.9 8'674.04
93.05	433.2	15.82	268.9 8'697.42
93.4	433	15.96	268.8 8'759.92
92.8	435.1	15.96	266.9 8'768.91
93	438	16.05	268 8'682.93
93.55	439	16.14	269.9 8'818.19
91.85	433.5	15.85	267.2 8'861.05
92.8	436	16.18	261.8 8'847.96
92.35	436.3	16.28	262.3 8'824.67
92.25	437.9	15.58	263.1 8'938.12
93.1	438.7	15.4	262.1 8'933.97

92.5	450.5	14.26	262.9 8'991.34
88.5	440	13.19	249.3 8'959.79
90.45	441.8	13.74	254.8 9'005.58
90.3	447	13.4	252 9'019.46
90.15	445.2	13.21	250.4 9'139.47
90.4	447.2	13.36	252 9'173.20
91.85	447.5	13.56	254.5 9'163.38
91.95	454.3	13.97	259 9'174.33
92.5	454	14.15	256.7 9'155.57
92.4	454.1	14	259 9'158.00
92.85	457.1	13.75	259.1 9'149.36
92.5	457.6	13.61	259.4 9'201.22
92.25	454.2	13.8	259.3 9'176.15
90.7	455.9	13.59	257.1 9'145.68
90	454.1	13.55	257.1 9'031.33
90	453.5	13.57	256.5 9'005.35
89.3	453.9	13.32	255 9'010.19
88.65	453.4	13.25	253.5 8'926.23
88.5	452.2	13.21	253.4 8'997.72
87.65	451.3	13.19	250 9'003.91
87.3	450.5	13.44	253.2 9'059.53
87.65	453.2	13.59	256 9'082.86
87.95	451.5	13.64	257.5 9'048.20
86.35	450	13.51	256 9'049.72
84.25	452.5	13.7	254.1 9'052.90
86.6	457.8	13.8	255.8 9'098.70
85.85	458.7	13.55	252 9'084.26
86.7	459.5	13.26	250.1 9'083.84
87.3	461.5	13.18	250.9 9'042.06
86.3	460	12.72	247.4 8'973.56
88.25	467.9	13.19	253.7 9'003.47
87.2	468.9	13.02	249.1 8'951.89
88.4	469.8	13.11	252.8 8'868.86
88.2	471	13.34	255 8'818.72
87.5	473.5	13.56	256.4 8'843.11
86.3	472.6	13.51	254.2 8'930.24
85.7	470.4	13.59	253.4 8'914.94
84.55	467.7	13.31	251.5 8'960.13
84.35	470.3	13.57	253.3 8'960.08
84.85	465	13.65	255.5 8'970.00
84.5	461.7	13.77	252.6 8'936.71
85.25	467.3	14.01	256.1 8'915.87
85.9	471.7	14.23	257.3 8'939.85
85.25	470.6	14.18	254.1 9'000.81
86.35	477.9	14.3	256.1 8'995.38
85.45	478.5	14.11	256.6 8'946.22
85.25	478	14.07	256.2 9'021.61
85.05	477.2	14.32	256.1 9'080.14
84.35	476.3	14.41	254 9'112.22
82.7	467.4	14.24	250.5 9'087.99

83.05	470	14.22	252 9'127.05
82.05	471.5	13.97	249.3 9'087.32
81.05	469.6	13.8	245.8 9'175.21
80.8	469.2	13.71	245 9'097.52
81	469.6	13.68	245 9'042.08
81.3	466.9	13.6	246.4 8'964.14
81.55	468.4	13.29	247.5 8'964.11
80.9	469	12.98	244.9 8'892.88
80.5	464.7	12.88	244.2 8'639.19
81.85	470.9	13.14	248 8'660.38
81.35	487.9	13.2	248.2 8'653.16
83.15	483	13.3	249.7 8'794.97
83.65	484.9	13.34	252 8'750.35
84.15	486	13.52	252.8 8'779.18
84.2	485.7	13.4	253.3 8'872.09
84.05	485	13.35	250.5 8'865.56
84	484.9	13.31	240.6 8'767.15
83.65	480.6	13.39	237.1 8'724.61
82.85	479.5	13.35	235.5 8'706.40
81.75	475.9	12.87	232 8'665.80
81.5	475.1	12.76	230 8'759.62
81.45	472.9	12.6	229.4 8'854.28
81.35	477.9	13.05	232 9'022.16
82	478.4	13.32	232.6 9'017.25
83.4	480	13.65	234.8 8'992.30
82.85	480.1	13.47	232.8 9'008.58
82.65	480.5	13.24	232.2 8'992.07
82.4	478	13.17	232.5 9'050.53
82.6	476.1	13.05	233 9'094.90
84.1	479.2	13.1	235.5 9'074.03
83.4	483	12.95	234.2 8'984.05
83.5	480.5	12.89	235.5 9'015.43
83.4	482.9	12.98	235.3 8'931.20
84.15	482	12.99	237.4 8'870.03
84.1	484.4	12.76	234 8'907.39
83.85	482.7	12.6	235.9 8'812.61
82.7	479.8	12.2	231.5 8'769.45
82.55	476.1	12.17	230.1 8'841.48
80.3	471.5	11.94	225.7 8'781.29
80.75	469.9	12.05	228 8'845.90
82.35	471.8	12	229.9 8'931.37
83.95	476.8	12.51	236.1 8'898.01
85.9	482.7	12.92	241.5 8'894.58
85	482.1	12.74	242 9'015.59
84.1	477.6	12.7	237.1 9'037.76
82.45	465	12.55	230.8 9'106.56
81.1	456.7	12.85	225 9'085.00
80.8	450.1	13.55	226.7 8'939.96
79.85	447.3	13.5	220.1 8'660.03
84.4	455.2	15.04	237.6 8'741.03

83.6	455.2	14.83	236 8'551.02
83.05	456.8	14.54	230.7 8'715.08
82.2	456.7	14.38	230 8'861.14
80.4	453	13.79	224.8 8'814.70
80	449.6	13.25	220 8'713.68
81.2	449	13.49	221.7 8'602.61
80.55	451	13.48	217.7 8'528.27
82.2	455.7	13.74	223.3 8'540.16
85.45	466	14.13	227.5 8'414.48
86.75	471.1	14.58	229.8 8'417.29
87.9	475.1	14.51	232.6 8'195.64
87.85	481.4	14.53	234 8'429.30
87.85	489.8	14.48	235.6 8'466.01
88.25	474.7	14.97	238.5 8'608.56
88.65	468.2	15.07	238.6 8'535.95
89	474.3	15.3	239.7 8'629.48
89.25	479.2	15.33	244 8'687.71
89.15	480	15.33	243.6 8'801.48
88.8	475	15.3	244.8 8'828.22
88.25	474.5	15.27	242.9 8'760.32
88	469.7	15.04	243.6 8'824.73
85.85	458.5	14.7	235.7 8'873.77
86.8	470.6	14.7	238.7 8'914.14
86	470	14.75	236.5 9'023.96
85.65	476.9	14.6	235 9'011.41
85.35	480.1	14.12	233.2 8'966.34
86	486.3	14.35	232.9 8'957.19
85.35	482.2	14.47	228.3 8'937.39
86.9	480.8	14.65	222 8'922.49
87.4	480.4	15.56	216.3 8'857.85
87.35	481.4	15.39	212.4 8'940.52
86	478.1	15.28	210.4 8'965.71
85.6	480.5	15.01	208.5 8'969.27
85.8	494.2	15.2	211.6 8'996.36
85.8	497.3	16	216.4 9'011.48
85.5	485.9	16.59	216 9'150.56
88.6	487	16.61	214.9 9'143.00
88	490.1	16.54	215.9 9'035.90
89	494.7	16.54	216.3 9'003.41
88.95	495.1	16.3	216.8 9'068.62
93.5	493	16.23	217.6 9'127.40
93.5	500.5	16.01	216.4 9'164.06
94.8	508	16.25	218.3 9'142.71
93.7	502.5	15.82	216.4 9'242.12
92.95	498	15.65	211.4 9'267.46
92.15	492.1	15.33	208.9 9'256.17
93.4	497.9	15.47	211 9'315.63
92.45	498	15.5	210 9'333.57
90.1	502	14.89	204.9 9'348.93
88.45	499.3	14.6	200.8 9'398.37

87.85	504	14.6	198.5 9'461.21
86.8	504	14.47	196.9 9'412.19
87	522	14.61	198.7 9'388.94
86.7	517	14.4	197.2 9'412.02
86.9	518.5	14.75	200.9 9'394.05
87.8	521	15.05	202.4 9'399.15
88.15	517	15.3	205.5 9'403.16
89	522.5	15.7	224 9'324.58
89.55	522	15.71	221 9'268.36
88.25	519	15.9	221 9'341.35
90.15	518	15.95	224.5 9'331.62
90.5	522.5	16.33	226.5 9'387.43
89.55	521	16.33	226.2 9'481.90
89.85	518	16.16	226 9'483.10
91.3	525	16.14	229.1 9'496.93
91	519.5	15.89	228.5 9'525.92
90.05	514.5	16.59	228 9'463.32
89.1	517.5	16.53	227.9 9'454.05
89.75	520	16.66	228.8 9'319.42
88.25	511	16.28	224.2 9'305.50
89	511	16.29	224.7 9'389.30
89.1	509.5	16.23	225 9'390.59
88.85	498.5	16.36	224 9'405.93
89.35	499.3	16.3	225 9'477.84
90.7	499.5	16.29	223.5 9'538.11
91.1	502.5	16.18	221.4 9'536.57

Attachment B

```
destring givaudan, replace ignore()  
destring sgssa, replace ignore()  
destring smi, replace ignore()  
gen r_m = 100*log(smi/smi[_n-1])  
ds date smi r_m, not  
rename (`=r(varlist)') v(#), addnumber  
reshape long v, i(date) j(j)  
by j (date), sort: gen r_i = 100*log(v/v[_n-1])  
gen csad = abs(r_i-r_m)  
gen absr_m = abs(r_m)  
gen r_m2=r_m*r_m  
xtset j  
xtreg csad absr_m r_m2
```