

Table 7 - likelihood of execution information to be published as referred to in Article 7(1)

Date	Symbol	Hour	Best Bid Price	Best Offer Price	Bid Size at Best Bid Price	Offer Size at Best Offer Price	Book depth within 3 price increments
10/1/2018	#AA	9:30:00 AM					N/A
10/1/2018	#AA	11:30:00 AM					N/A
10/1/2018	#AA	1:30:00 PM					N/A
10/1/2018	#AA	3:30:00 PM					N/A
10/1/2018	#AABA	9:30:00 AM					N/A
10/1/2018	#AABA	11:30:00 AM					N/A
10/1/2018	#AABA	1:30:00 PM					N/A
10/1/2018	#AABA	3:30:00 PM					N/A
10/1/2018	#AAL	9:30:00 AM					N/A
10/1/2018	#AAL	11:30:00 AM					N/A
10/1/2018	#AAL	1:30:00 PM					N/A
10/1/2018	#AAL	3:30:00 PM					N/A
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10/1/2018	#AAPL	11:30:00 AM					N/A
10/1/2018	#AAPL	1:30:00 PM					N/A
10/1/2018	#AAPL	3:30:00 PM					N/A
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10/1/2018	#ADBE	11:30:00 AM					N/A
10/1/2018	#ADBE	1:30:00 PM					N/A
10/1/2018	#ADBE	3:30:00 PM					N/A
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10/1/2018	#AIG	3:30:00 PM					N/A
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10/1/2018	#AMD	11:30:00 AM					N/A
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10/1/2018	#AMD	3:30:00 PM					N/A
10/1/2018	#AMZN	9:30:00 AM					N/A
10/1/2018	#AMZN	11:30:00 AM					N/A
10/1/2018	#AMZN	1:30:00 PM					N/A
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10/1/2018	#TSCO	11:30:00 AM					N/A
10/1/2018	#TSCO	1:30:00 PM					N/A
10/1/2018	#TSCO	3:30:00 PM					N/A
10/1/2018	#TSLA	9:30:00 AM					N/A
10/1/2018	#TSLA	11:30:00 AM					N/A
10/1/2018	#TSLA	1:30:00 PM					N/A
10/1/2018	#TSLA	3:30:00 PM					N/A
10/1/2018	#TWTR	9:30:00 AM					N/A
10/1/2018	#TWTR	11:30:00 AM					N/A
10/1/2018	#TWTR	1:30:00 PM					N/A
10/1/2018	#TWTR	3:30:00 PM					N/A
10/1/2018	#UBS	9:30:00 AM					N/A
10/1/2018	#UBS	11:30:00 AM					N/A
10/1/2018	#UBS	1:30:00 PM					N/A
10/1/2018	#UBS	3:30:00 PM					N/A
10/1/2018	#UL	9:30:00 AM					N/A
10/1/2018	#UL	11:30:00 AM					N/A
10/1/2018	#UL	1:30:00 PM					N/A
10/1/2018	#UL	3:30:00 PM					N/A
10/1/2018	#UPS	9:30:00 AM					N/A
10/1/2018	#UPS	11:30:00 AM					N/A
10/1/2018	#UPS	1:30:00 PM					N/A
10/1/2018	#UPS	3:30:00 PM					N/A
10/1/2018	#UTX	9:30:00 AM					N/A
10/1/2018	#UTX	11:30:00 AM					N/A
10/1/2018	#UTX	1:30:00 PM					N/A
10/1/2018	#UTX	3:30:00 PM					N/A
10/1/2018	#V	9:30:00 AM					N/A
10/1/2018	#V	11:30:00 AM					N/A
10/1/2018	#V	1:30:00 PM					N/A
10/1/2018	#V	3:30:00 PM					N/A
10/1/2018	#VOD	9:30:00 AM					N/A
10/1/2018	#VOD	11:30:00 AM					N/A
10/1/2018	#VOD	1:30:00 PM					N/A
10/1/2018	#VOD	3:30:00 PM					N/A
10/1/2018	#VZ	9:30:00 AM					N/A
10/1/2018	#VZ	11:30:00 AM					N/A
10/1/2018	#VZ	1:30:00 PM					N/A
10/1/2018	#VZ	3:30:00 PM					N/A
10/1/2018	#WDC	9:30:00 AM					N/A
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10/1/2018	#WDC	1:30:00 PM					N/A
10/1/2018	#WDC	3:30:00 PM					N/A
10/1/2018	#WFC	9:30:00 AM					N/A

10/1/2018	#WFC	11:30:00 AM					N/A
10/1/2018	#WFC	1:30:00 PM					N/A
10/1/2018	#WFC	3:30:00 PM					N/A
10/1/2018	#WMT	9:30:00 AM					N/A
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10/1/2018	#WMT	1:30:00 PM					N/A
10/1/2018	#WMT	3:30:00 PM					N/A
10/1/2018	#XOM	9:30:00 AM					N/A
10/1/2018	#XOM	11:30:00 AM					N/A
10/1/2018	#XOM	1:30:00 PM					N/A
10/1/2018	#XOM	3:30:00 PM					N/A
10/1/2018	#YHOO	9:30:00 AM					N/A
10/1/2018	#YHOO	11:30:00 AM					N/A
10/1/2018	#YHOO	1:30:00 PM					N/A
10/1/2018	#YHOO	3:30:00 PM					N/A
10/1/2018	#ZNGA	9:30:00 AM					N/A
10/1/2018	#ZNGA	11:30:00 AM					N/A
10/1/2018	#ZNGA	1:30:00 PM					N/A
10/1/2018	#ZNGA	3:30:00 PM					N/A
10/1/2018	AUDCAD	9:30:00 AM	0.92481	0.92554			N/A
10/1/2018	AUDCAD	11:30:00 AM	0.92421	0.92485			N/A
10/1/2018	AUDCAD	1:30:00 PM	0.92369	0.92432			N/A
10/1/2018	AUDCAD	3:30:00 PM	0.92444	0.92493			N/A
10/1/2018	AUDCHF	9:30:00 AM	0.70773	0.70849			N/A
10/1/2018	AUDCHF	11:30:00 AM	0.70988	0.71062			N/A
10/1/2018	AUDCHF	1:30:00 PM	0.70914	0.70982			N/A
10/1/2018	AUDCHF	3:30:00 PM	0.70957	0.71012			N/A
10/1/2018	AUDCZK	9:30:00 AM	16.026	16.034			N/A
10/1/2018	AUDCZK	11:30:00 AM	16.004	16.02			N/A
10/1/2018	AUDCZK	1:30:00 PM	16.014	16.031			N/A
10/1/2018	AUDCZK	3:30:00 PM	16.003	16.019			N/A
10/1/2018	AUDDKK	9:30:00 AM	4.6417	4.6462			N/A
10/1/2018	AUDDKK	11:30:00 AM	4.6353	4.6401			N/A
10/1/2018	AUDDKK	1:30:00 PM	4.6355	4.6399			N/A
10/1/2018	AUDDKK	3:30:00 PM	4.6362	4.6404			N/A
10/1/2018	AUDHKD	9:30:00 AM	5.6442	5.6481			N/A
10/1/2018	AUDHKD	11:30:00 AM	5.6502	5.6535			N/A
10/1/2018	AUDHKD	1:30:00 PM	5.6477	5.6516			N/A
10/1/2018	AUDHKD	3:30:00 PM	5.6447	5.6486			N/A
10/1/2018	AUDHUF	9:30:00 AM	201.49	201.66			N/A
10/1/2018	AUDHUF	11:30:00 AM	200.96	201.19			N/A
10/1/2018	AUDHUF	1:30:00 PM	200.87	201.1			N/A
10/1/2018	AUDHUF	3:30:00 PM	200.74	200.96			N/A
10/1/2018	AUDJPY	9:30:00 AM	82.189	82.265			N/A
10/1/2018	AUDJPY	11:30:00 AM	82.238	82.303			N/A
10/1/2018	AUDJPY	1:30:00 PM	82.241	82.313			N/A
10/1/2018	AUDJPY	3:30:00 PM	82.186	82.241			N/A
10/1/2018	AUDMXN	9:30:00 AM	13.3712	13.3812			N/A
10/1/2018	AUDMXN	11:30:00 AM	13.3618	13.3708			N/A
10/1/2018	AUDMXN	1:30:00 PM	13.3825	13.3919			N/A

10/1/2018	AUDMXN	3:30:00 PM	13.4079	13.4145			N/A
10/1/2018	AUDNOK	9:30:00 AM	5.8855	5.8913			N/A
10/1/2018	AUDNOK	11:30:00 AM	5.8701	5.8747			N/A
10/1/2018	AUDNOK	1:30:00 PM	5.8738	5.8785			N/A
10/1/2018	AUDNOK	3:30:00 PM	5.8769	5.8826			N/A
10/1/2018	AUDNZD	9:30:00 AM	1.09116	1.09205			N/A
10/1/2018	AUDNZD	11:30:00 AM	1.09101	1.09187			N/A
10/1/2018	AUDNZD	1:30:00 PM	1.09246	1.0933			N/A
10/1/2018	AUDNZD	3:30:00 PM	1.09161	1.09242			N/A
10/1/2018	AUDPLN	9:30:00 AM	2.6665	2.6695			N/A
10/1/2018	AUDPLN	11:30:00 AM	2.6593	2.6622			N/A
10/1/2018	AUDPLN	1:30:00 PM	2.6588	2.6616			N/A
10/1/2018	AUDPLN	3:30:00 PM	2.6621	2.665			N/A
10/1/2018	AUDSEK	9:30:00 AM	6.4254	6.4287			N/A
10/1/2018	AUDSEK	11:30:00 AM	6.4177	6.4203			N/A
10/1/2018	AUDSEK	1:30:00 PM	6.4233	6.4259			N/A
10/1/2018	AUDSEK	3:30:00 PM	6.4294	6.4311			N/A
10/1/2018	AUDSGD	9:30:00 AM	0.9886	0.9889			N/A
10/1/2018	AUDSGD	11:30:00 AM	0.9895	0.9898			N/A
10/1/2018	AUDSGD	1:30:00 PM	0.989	0.9894			N/A
10/1/2018	AUDSGD	3:30:00 PM	0.9893	0.9896			N/A
10/1/2018	AUDUSD	9:30:00 AM	0.72155	0.72174			N/A
10/1/2018	AUDUSD	11:30:00 AM	0.72231	0.72236			N/A
10/1/2018	AUDUSD	1:30:00 PM	0.72202	0.7222			N/A
10/1/2018	AUDUSD	3:30:00 PM	0.72171	0.7218			N/A
10/1/2018	AUDZAR	9:30:00 AM	10.2007	10.2107			N/A
10/1/2018	AUDZAR	11:30:00 AM	10.1664	10.1729			N/A
10/1/2018	AUDZAR	1:30:00 PM	10.1711	10.1859			N/A
10/1/2018	AUDZAR	3:30:00 PM	10.2104	10.222			N/A
10/1/2018	CADCHF	9:30:00 AM	0.76496	0.76568			N/A
10/1/2018	CADCHF	11:30:00 AM	0.76782	0.76858			N/A
10/1/2018	CADCHF	1:30:00 PM	0.76744	0.76816			N/A
10/1/2018	CADCHF	3:30:00 PM	0.76743	0.76785			N/A
10/1/2018	CADCZK	9:30:00 AM	17.328	17.336			N/A
10/1/2018	CADCZK	11:30:00 AM	17.315	17.331			N/A
10/1/2018	CADCZK	1:30:00 PM	17.339	17.354			N/A
10/1/2018	CADCZK	3:30:00 PM	17.314	17.327			N/A
10/1/2018	CADDKK	9:30:00 AM	5.019	5.023			N/A
10/1/2018	CADDKK	11:30:00 AM					N/A
10/1/2018	CADDKK	1:30:00 PM					N/A
10/1/2018	CADDKK	3:30:00 PM	5.015	5.019			N/A
10/1/2018	CADHKD	9:30:00 AM	6.1029	6.1061			N/A
10/1/2018	CADHKD	11:30:00 AM	6.1131	6.117			N/A
10/1/2018	CADHKD	1:30:00 PM	6.1151	6.1184			N/A
10/1/2018	CADHKD	3:30:00 PM	6.1068	6.1106			N/A
10/1/2018	CADHUF	9:30:00 AM	217.88	217.99			N/A
10/1/2018	CADHUF	11:30:00 AM	217.47	217.63			N/A
10/1/2018	CADHUF	1:30:00 PM	217.49	217.65			N/A
10/1/2018	CADHUF	3:30:00 PM	217.23	217.35			N/A
10/1/2018	CADJPY	9:30:00 AM	88.846	88.917			N/A

10/1/2018	CADJPY	11:30:00 AM	88.951	89.025			N/A
10/1/2018	CADJPY	1:30:00 PM	89.017	89.08			N/A
10/1/2018	CADJPY	3:30:00 PM	88.897	88.93			N/A
10/1/2018	CADMXN	9:30:00 AM	14.4571	14.4691			N/A
10/1/2018	CADMXN	11:30:00 AM	14.4569	14.4678			N/A
10/1/2018	CADMXN	1:30:00 PM	14.4895	14.4997			N/A
10/1/2018	CADMXN	3:30:00 PM	14.5048	14.5151			N/A
10/1/2018	CADNOK	9:30:00 AM	6.3638	6.368			N/A
10/1/2018	CADNOK	11:30:00 AM	6.3524	6.3556			N/A
10/1/2018	CADNOK	1:30:00 PM	6.3603	6.3625			N/A
10/1/2018	CADNOK	3:30:00 PM	6.359	6.3628			N/A
10/1/2018	CADPLN	9:30:00 AM	2.8828	2.8846			N/A
10/1/2018	CADPLN	11:30:00 AM	2.8774	2.8791			N/A
10/1/2018	CADPLN	1:30:00 PM	2.878	2.8799			N/A
10/1/2018	CADPLN	3:30:00 PM	2.8796	2.8815			N/A
10/1/2018	CADSEK	9:30:00 AM	6.9456	6.9485			N/A
10/1/2018	CADSEK	11:30:00 AM	6.9427	6.9439			N/A
10/1/2018	CADSEK	1:30:00 PM	6.9518	6.9558			N/A
10/1/2018	CADSEK	3:30:00 PM	6.9548	6.9556			N/A
10/1/2018	CADSGD	9:30:00 AM	1.0684	1.0687			N/A
10/1/2018	CADSGD	11:30:00 AM					N/A
10/1/2018	CADSGD	1:30:00 PM	1.0708	1.0711			N/A
10/1/2018	CADSGD	3:30:00 PM	1.0699	1.0702			N/A
10/1/2018	CADZAR	9:30:00 AM	11.0226	11.0363			N/A
10/1/2018	CADZAR	11:30:00 AM	10.9942	11.0013			N/A
10/1/2018	CADZAR	1:30:00 PM	11.006	11.0228			N/A
10/1/2018	CADZAR	3:30:00 PM	11.0389	11.0545			N/A
10/1/2018	CHFCZK	9:30:00 AM	22.645	22.647			N/A
10/1/2018	CHFCZK	11:30:00 AM	22.542	22.56			N/A
10/1/2018	CHFCZK	1:30:00 PM	22.586	22.6			N/A
10/1/2018	CHFCZK	3:30:00 PM	22.559	22.57			N/A
10/1/2018	CHFDKK	9:30:00 AM					N/A
10/1/2018	CHFDKK	11:30:00 AM					N/A
10/1/2018	CHFDKK	1:30:00 PM					N/A
10/1/2018	CHFDKK	3:30:00 PM	6.533	6.537			N/A
10/1/2018	CHFHKD	9:30:00 AM	7.9754	7.9793			N/A
10/1/2018	CHFHKD	11:30:00 AM	7.9589	7.9614			N/A
10/1/2018	CHFHKD	1:30:00 PM	7.9646	7.968			N/A
10/1/2018	CHFHKD	3:30:00 PM	7.9558	7.959			N/A
10/1/2018	CHFHUF	9:30:00 AM	284.63	284.9			N/A
10/1/2018	CHFHUF	11:30:00 AM	283	283.39			N/A
10/1/2018	CHFHUF	1:30:00 PM	283.19	283.56			N/A
10/1/2018	CHFHUF	3:30:00 PM	282.9	283.21			N/A
10/1/2018	CHFJPY	9:30:00 AM	116.046	116.118			N/A
10/1/2018	CHFJPY	11:30:00 AM	115.755	115.824			N/A
10/1/2018	CHFJPY	1:30:00 PM	115.892	115.961			N/A
10/1/2018	CHFJPY	3:30:00 PM	115.75	115.798			N/A
10/1/2018	CHFMXN	9:30:00 AM	18.8884	18.9045			N/A
10/1/2018	CHFMXN	11:30:00 AM	18.8174	18.8347			N/A
10/1/2018	CHFMXN	1:30:00 PM	18.869	18.8823			N/A

10/1/2018	CHFMXN	3:30:00 PM	18.8958	18.9045			N/A
10/1/2018	CHFNOK	9:30:00 AM	8.3154	8.3224			N/A
10/1/2018	CHFNOK	11:30:00 AM	8.2677	8.275			N/A
10/1/2018	CHFNOK	1:30:00 PM	8.282	8.2886			N/A
10/1/2018	CHFNOK	3:30:00 PM	8.2826	8.289			N/A
10/1/2018	CHFPLN	9:30:00 AM	3.7669	3.7691			N/A
10/1/2018	CHFPLN	11:30:00 AM	3.745	3.7478			N/A
10/1/2018	CHFPLN	1:30:00 PM	3.7482	3.751			N/A
10/1/2018	CHFPLN	3:30:00 PM	3.7511	3.7532			N/A
10/1/2018	CHFSEK	9:30:00 AM	9.0774	9.0808			N/A
10/1/2018	CHFSEK	11:30:00 AM	9.0394	9.0411			N/A
10/1/2018	CHFSEK	1:30:00 PM	9.0564	9.0602			N/A
10/1/2018	CHFSEK	3:30:00 PM	9.0607	9.061			N/A
10/1/2018	CHFSGD	9:30:00 AM	1.3962	1.3967			N/A
10/1/2018	CHFSGD	11:30:00 AM	1.3933	1.3938			N/A
10/1/2018	CHFSGD	1:30:00 PM	1.3943	1.3946			N/A
10/1/2018	CHFSGD	3:30:00 PM	1.3938	1.3942			N/A
10/1/2018	CHFZAR	9:30:00 AM	14.4094	14.416			N/A
10/1/2018	CHFZAR	11:30:00 AM	14.3164	14.3184			N/A
10/1/2018	CHFZAR	1:30:00 PM	14.3378	14.3528			N/A
10/1/2018	CHFZAR	3:30:00 PM	14.3836	14.396			N/A
10/1/2018	CZKJPY	9:30:00 AM	5.129	5.131			N/A
10/1/2018	CZKJPY	11:30:00 AM					N/A
10/1/2018	CZKJPY	1:30:00 PM					N/A
10/1/2018	CZKJPY	3:30:00 PM					N/A
10/1/2018	DKKJPY	9:30:00 AM					N/A
10/1/2018	DKKJPY	11:30:00 AM					N/A
10/1/2018	DKKJPY	1:30:00 PM					N/A
10/1/2018	DKKJPY	3:30:00 PM	17.73	17.74			N/A
10/1/2018	EURAUD	9:30:00 AM	1.60561	1.60591			N/A
10/1/2018	EURAUD	11:30:00 AM	1.60755	1.60803			N/A
10/1/2018	EURAUD	1:30:00 PM	1.60759	1.60793			N/A
10/1/2018	EURAUD	3:30:00 PM	1.60753	1.60778			N/A
10/1/2018	EURCAD	9:30:00 AM	1.48555	1.48629			N/A
10/1/2018	EURCAD	11:30:00 AM	1.48637	1.48718			N/A
10/1/2018	EURCAD	1:30:00 PM	1.48549	1.48628			N/A
10/1/2018	EURCAD	3:30:00 PM	1.48676	1.48703			N/A
10/1/2018	EURCHF	9:30:00 AM	1.13691	1.13692			N/A
10/1/2018	EURCHF	11:30:00 AM	1.14177	1.1419			N/A
10/1/2018	EURCHF	1:30:00 PM	1.1405	1.14065			N/A
10/1/2018	EURCHF	3:30:00 PM	1.14088	1.14135			N/A
10/1/2018	EURCZK	9:30:00 AM	25.737	25.761			N/A
10/1/2018	EURCZK	11:30:00 AM	25.73	25.768			N/A
10/1/2018	EURCZK	1:30:00 PM	25.753	25.789			N/A
10/1/2018	EURCZK	3:30:00 PM	25.726	25.764			N/A
10/1/2018	EURDKK	9:30:00 AM	7.4563	7.4575			N/A
10/1/2018	EURDKK	11:30:00 AM	7.4553	7.4564			N/A
10/1/2018	EURDKK	1:30:00 PM	7.4551	7.4562			N/A
10/1/2018	EURDKK	3:30:00 PM	7.4552	7.4563			N/A
10/1/2018	EURGBP	9:30:00 AM	0.88855	0.88848			N/A

10/1/2018	EURGBP	11:30:00 AM	0.88924	0.88938			N/A
10/1/2018	EURGBP	1:30:00 PM	0.88955	0.88957			N/A
10/1/2018	EURGBP	3:30:00 PM	0.88761	0.88764			N/A
10/1/2018	EURHKD	9:30:00 AM	9.0663	9.0702			N/A
10/1/2018	EURHKD	11:30:00 AM	9.0865	9.0901			N/A
10/1/2018	EURHKD	1:30:00 PM	9.0824	9.087			N/A
10/1/2018	EURHKD	3:30:00 PM	9.0774	9.0805			N/A
10/1/2018	EURHUF	9:30:00 AM	323.44	324.13			N/A
10/1/2018	EURHUF	11:30:00 AM	323.02	323.7			N/A
10/1/2018	EURHUF	1:30:00 PM	322.88	323.59			N/A
10/1/2018	EURHUF	3:30:00 PM	322.64	323.37			N/A
10/1/2018	EURJPY	9:30:00 AM	132.018	132.01			N/A
10/1/2018	EURJPY	11:30:00 AM	132.249	132.246			N/A
10/1/2018	EURJPY	1:30:00 PM	132.258	132.262			N/A
10/1/2018	EURJPY	3:30:00 PM	132.159	132.141			N/A
10/1/2018	EURMXN	9:30:00 AM	21.4765	21.493			N/A
10/1/2018	EURMXN	11:30:00 AM	21.488	21.5059			N/A
10/1/2018	EURMXN	1:30:00 PM	21.522	21.5373			N/A
10/1/2018	EURMXN	3:30:00 PM	21.5599	21.5748			N/A
10/1/2018	EURNOK	9:30:00 AM	9.4512	9.4638			N/A
10/1/2018	EURNOK	11:30:00 AM	9.4382	9.4495			N/A
10/1/2018	EURNOK	1:30:00 PM	9.4447	9.4548			N/A
10/1/2018	EURNOK	3:30:00 PM	9.4494	9.4612			N/A
10/1/2018	EURNZD	9:30:00 AM	1.75265	1.75343			N/A
10/1/2018	EURNZD	11:30:00 AM	1.75462	1.75544			N/A
10/1/2018	EURNZD	1:30:00 PM	1.7569	1.75764			N/A
10/1/2018	EURNZD	3:30:00 PM	1.75557	1.75606			N/A
10/1/2018	EURPLN	9:30:00 AM	4.2824	4.2854			N/A
10/1/2018	EURPLN	11:30:00 AM	4.2764	4.2789			N/A
10/1/2018	EURPLN	1:30:00 PM	4.2753	4.2783			N/A
10/1/2018	EURPLN	3:30:00 PM	4.2804	4.2832			N/A
10/1/2018	EURRUR	9:30:00 AM					N/A
10/1/2018	EURRUR	11:30:00 AM	75.848	76.26			N/A
10/1/2018	EURRUR	1:30:00 PM	75.848	76.276			N/A
10/1/2018	EURRUR	3:30:00 PM	75.852	76.258			N/A
10/1/2018	EURSEK	9:30:00 AM	10.3194	10.3237			N/A
10/1/2018	EURSEK	11:30:00 AM	10.3196	10.3212			N/A
10/1/2018	EURSEK	1:30:00 PM	10.329	10.3326			N/A
10/1/2018	EURSEK	3:30:00 PM	10.337	10.3391			N/A
10/1/2018	EURSGD	9:30:00 AM	1.5874	1.588			N/A
10/1/2018	EURSGD	11:30:00 AM	1.5908	1.5916			N/A
10/1/2018	EURSGD	1:30:00 PM	1.5901	1.5909			N/A
10/1/2018	EURSGD	3:30:00 PM	1.5903	1.591			N/A
10/1/2018	EURUSD	9:30:00 AM	1.15837	1.15832			N/A
10/1/2018	EURUSD	11:30:00 AM	1.16095	1.16086			N/A
10/1/2018	EURUSD	1:30:00 PM	1.16053	1.16053			N/A
10/1/2018	EURUSD	3:30:00 PM	1.15993	1.15981			N/A
10/1/2018	EURZAR	9:30:00 AM	16.3804	16.393			N/A
10/1/2018	EURZAR	11:30:00 AM	16.3469	16.3519			N/A
10/1/2018	EURZAR	1:30:00 PM	16.3545	16.3734			N/A

10/1/2018	EURZAR	3:30:00 PM	16.4165	16.4295			N/A
10/1/2018	GBPAUD	9:30:00 AM	1.80689	1.80738			N/A
10/1/2018	GBPAUD	11:30:00 AM	1.80738	1.80824			N/A
10/1/2018	GBPAUD	1:30:00 PM	1.80693	1.80768			N/A
10/1/2018	GBPAUD	3:30:00 PM	1.81083	1.81135			N/A
10/1/2018	GBPCAD	9:30:00 AM	1.67162	1.67223			N/A
10/1/2018	GBPCAD	11:30:00 AM	1.67105	1.67179			N/A
10/1/2018	GBPCAD	1:30:00 PM	1.66964	1.67019			N/A
10/1/2018	GBPCAD	3:30:00 PM	1.67452	1.67478			N/A
10/1/2018	GBPCHF	9:30:00 AM	1.27947	1.27969			N/A
10/1/2018	GBPCHF	11:30:00 AM	1.28371	1.2842			N/A
10/1/2018	GBPCHF	1:30:00 PM	1.28201	1.28235			N/A
10/1/2018	GBPCHF	3:30:00 PM	1.28543	1.28586			N/A
10/1/2018	GBPCZK	9:30:00 AM	28.973	28.977			N/A
10/1/2018	GBPCZK	11:30:00 AM	28.937	28.959			N/A
10/1/2018	GBPCZK	1:30:00 PM	28.95	28.971			N/A
10/1/2018	GBPCZK	3:30:00 PM	28.991	29.011			N/A
10/1/2018	GBPDKK	9:30:00 AM	8.39	8.399			N/A
10/1/2018	GBPDKK	11:30:00 AM	8.38	8.391			N/A
10/1/2018	GBPDKK	1:30:00 PM	8.377	8.39			N/A
10/1/2018	GBPDKK	3:30:00 PM	8.397	8.408			N/A
10/1/2018	GBPHKD	9:30:00 AM	10.2032	10.2071			N/A
10/1/2018	GBPHKD	11:30:00 AM	10.2165	10.2204			N/A
10/1/2018	GBPHKD	1:30:00 PM	10.2087	10.2144			N/A
10/1/2018	GBPHKD	3:30:00 PM	10.2255	10.228			N/A
10/1/2018	GBPHUF	9:30:00 AM	364.17	364.45			N/A
10/1/2018	GBPHUF	11:30:00 AM	363.28	363.76			N/A
10/1/2018	GBPHUF	1:30:00 PM	363.05	363.46			N/A
10/1/2018	GBPHUF	3:30:00 PM	363.56	364			N/A
10/1/2018	GBPJPY	9:30:00 AM	148.594	148.604			N/A
10/1/2018	GBPJPY	11:30:00 AM	148.72	148.749			N/A
10/1/2018	GBPJPY	1:30:00 PM	148.684	148.719			N/A
10/1/2018	GBPJPY	3:30:00 PM	148.909	148.911			N/A
10/1/2018	GBPMXN	9:30:00 AM	24.17	24.1804			N/A
10/1/2018	GBPMXN	11:30:00 AM	24.1578	24.1733			N/A
10/1/2018	GBPMXN	1:30:00 PM	24.1906	24.2037			N/A
10/1/2018	GBPMXN	3:30:00 PM	24.2848	24.2955			N/A
10/1/2018	GBPNOK	9:30:00 AM	10.6406	10.6492			N/A
10/1/2018	GBPNOK	11:30:00 AM	10.6141	10.6248			N/A
10/1/2018	GBPNOK	1:30:00 PM	10.6174	10.6282			N/A
10/1/2018	GBPNOK	3:30:00 PM	10.6465	10.6567			N/A
10/1/2018	GBPNZD	9:30:00 AM	1.97295	1.97318			N/A
10/1/2018	GBPNZD	11:30:00 AM	1.97314	1.9739			N/A
10/1/2018	GBPNZD	1:30:00 PM	1.97519	1.9758			N/A
10/1/2018	GBPNZD	3:30:00 PM	1.97798	1.9783			N/A
10/1/2018	GBPPLN	9:30:00 AM	4.8212	4.8223			N/A
10/1/2018	GBPPLN	11:30:00 AM	4.8093	4.8106			N/A
10/1/2018	GBPPLN	1:30:00 PM	4.807	4.8077			N/A
10/1/2018	GBPPLN	3:30:00 PM	4.823	4.8244			N/A
10/1/2018	GBPSEK	9:30:00 AM	11.613	11.6196			N/A

10/1/2018	GBPSEK	11:30:00 AM	11.6022	11.6088			N/A
10/1/2018	GBPSEK	1:30:00 PM	11.6104	11.6167			N/A
10/1/2018	GBPSEK	3:30:00 PM	11.6437	11.65			N/A
10/1/2018	GBPSGD	9:30:00 AM	1.7866	1.7871			N/A
10/1/2018	GBPSGD	11:30:00 AM	1.7889	1.7896			N/A
10/1/2018	GBPSGD	1:30:00 PM	1.7876	1.7884			N/A
10/1/2018	GBPSGD	3:30:00 PM	1.7918	1.7922			N/A
10/1/2018	GBPUSD	9:30:00 AM	1.30387	1.30365			N/A
10/1/2018	GBPUSD	11:30:00 AM	1.30557	1.30542			N/A
10/1/2018	GBPUSD	1:30:00 PM	1.30469	1.30472			N/A
10/1/2018	GBPUSD	3:30:00 PM	1.30693	1.30668			N/A
10/1/2018	GBPZAR	9:30:00 AM	18.4356	18.4536			N/A
10/1/2018	GBPZAR	11:30:00 AM	18.378	18.3914			N/A
10/1/2018	GBPZAR	1:30:00 PM	18.3816	18.41			N/A
10/1/2018	GBPZAR	3:30:00 PM	18.4921	18.5129			N/A
10/1/2018	GOLD	9:30:00 AM	1186.59	1186.89			N/A
10/1/2018	GOLD	11:30:00 AM	1185.1	1185.24			N/A
10/1/2018	GOLD	1:30:00 PM	1185.3	1185.58			N/A
10/1/2018	GOLD	3:30:00 PM	1187.92	1188.03			N/A
10/1/2018	HKDJPY	9:30:00 AM					N/A
10/1/2018	HKDJPY	11:30:00 AM					N/A
10/1/2018	HKDJPY	1:30:00 PM					N/A
10/1/2018	HKDJPY	3:30:00 PM					N/A
10/1/2018	HUFJPY	9:30:00 AM	0.4078	0.4081			N/A
10/1/2018	HUFJPY	11:30:00 AM	0.4091	0.4094			N/A
10/1/2018	HUFJPY	1:30:00 PM	0.4094	0.4097			N/A
10/1/2018	HUFJPY	3:30:00 PM	0.4093	0.4096			N/A
10/1/2018	MXNJPY	9:30:00 AM					N/A
10/1/2018	MXNJPY	11:30:00 AM					N/A
10/1/2018	MXNJPY	1:30:00 PM	6.15	6.17			N/A
10/1/2018	MXNJPY	3:30:00 PM					N/A
10/1/2018	NOKJPY	9:30:00 AM					N/A
10/1/2018	NOKJPY	11:30:00 AM	14	14.04			N/A
10/1/2018	NOKJPY	1:30:00 PM					N/A
10/1/2018	NOKJPY	3:30:00 PM					N/A
10/1/2018	NZDCAD	9:30:00 AM	0.84704	0.84778			N/A
10/1/2018	NZDCAD	11:30:00 AM	0.84655	0.8473			N/A
10/1/2018	NZDCAD	1:30:00 PM	0.845	0.84568			N/A
10/1/2018	NZDCAD	3:30:00 PM	0.84636	0.84687			N/A
10/1/2018	NZDCHF	9:30:00 AM	0.64819	0.6489			N/A
10/1/2018	NZDCHF	11:30:00 AM	0.65023	0.65097			N/A
10/1/2018	NZDCHF	1:30:00 PM	0.64871	0.64941			N/A
10/1/2018	NZDCHF	3:30:00 PM	0.64957	0.65022			N/A
10/1/2018	NZDCZK	9:30:00 AM	14.68	14.685			N/A
10/1/2018	NZDCZK	11:30:00 AM	14.661	14.674			N/A
10/1/2018	NZDCZK	1:30:00 PM	14.653	14.665			N/A
10/1/2018	NZDCZK	3:30:00 PM	14.655	14.665			N/A
10/1/2018	NZDDKK	9:30:00 AM					N/A
10/1/2018	NZDDKK	11:30:00 AM					N/A
10/1/2018	NZDDKK	1:30:00 PM	4.241	4.245			N/A

10/1/2018	NZDDKK	3:30:00 PM	4.244	4.248			N/A
10/1/2018	NZDHKD	9:30:00 AM	5.1699	5.1728			N/A
10/1/2018	NZDHKD	11:30:00 AM	5.1755	5.1784			N/A
10/1/2018	NZDHKD	1:30:00 PM	5.167	5.1699			N/A
10/1/2018	NZDHKD	3:30:00 PM	5.1686	5.1713			N/A
10/1/2018	NZDHUF	9:30:00 AM	184.5	184.74			N/A
10/1/2018	NZDHUF	11:30:00 AM	184.04	184.33			N/A
10/1/2018	NZDHUF	1:30:00 PM	183.73	184			N/A
10/1/2018	NZDHUF	3:30:00 PM	183.77	184.02			N/A
10/1/2018	NZDJPY	9:30:00 AM	75.281	75.351			N/A
10/1/2018	NZDJPY	11:30:00 AM	75.332	75.398			N/A
10/1/2018	NZDJPY	1:30:00 PM	75.236	75.307			N/A
10/1/2018	NZDJPY	3:30:00 PM	75.246	75.305			N/A
10/1/2018	NZDMXN	9:30:00 AM	12.2474	12.2542			N/A
10/1/2018	NZDMXN	11:30:00 AM	12.2402	12.2466			N/A
10/1/2018	NZDMXN	1:30:00 PM	12.2439	12.2491			N/A
10/1/2018	NZDMXN	3:30:00 PM	12.2779	12.2799			N/A
10/1/2018	NZDNOK	9:30:00 AM	5.3907	5.3947			N/A
10/1/2018	NZDNOK	11:30:00 AM	5.3773	5.3809			N/A
10/1/2018	NZDNOK	1:30:00 PM	5.3743	5.3765			N/A
10/1/2018	NZDNOK	3:30:00 PM	5.3816	5.3847			N/A
10/1/2018	NZDPLN	9:30:00 AM	2.4426	2.4439			N/A
10/1/2018	NZDPLN	11:30:00 AM	2.4358	2.4371			N/A
10/1/2018	NZDPLN	1:30:00 PM	2.4319	2.4333			N/A
10/1/2018	NZDPLN	3:30:00 PM	2.437	2.4384			N/A
10/1/2018	NZDSEK	9:30:00 AM	5.8818	5.8886			N/A
10/1/2018	NZDSEK	11:30:00 AM	5.8756	5.8809			N/A
10/1/2018	NZDSEK	1:30:00 PM	5.8727	5.8793			N/A
10/1/2018	NZDSEK	3:30:00 PM	5.8837	5.8885			N/A
10/1/2018	NZDSGD	9:30:00 AM	0.9055	0.9062			N/A
10/1/2018	NZDSGD	11:30:00 AM	0.9065	0.9071			N/A
10/1/2018	NZDSGD	1:30:00 PM	0.9049	0.9056			N/A
10/1/2018	NZDSGD	3:30:00 PM	0.9057	0.9064			N/A
10/1/2018	NZDUSD	9:30:00 AM	0.66047	0.66063			N/A
10/1/2018	NZDUSD	11:30:00 AM	0.66121	0.66132			N/A
10/1/2018	NZDUSD	1:30:00 PM	0.66012	0.66025			N/A
10/1/2018	NZDUSD	3:30:00 PM	0.66033	0.66046			N/A
10/1/2018	NZDZAR	9:30:00 AM	9.3442	9.3432			N/A
10/1/2018	NZDZAR	11:30:00 AM	9.3135	9.3081			N/A
10/1/2018	NZDZAR	1:30:00 PM	9.3055	9.3094			N/A
10/1/2018	NZDZAR	3:30:00 PM	9.3473	9.3494			N/A
10/1/2018	SEKJPY	9:30:00 AM					N/A
10/1/2018	SEKJPY	11:30:00 AM	12.82	12.84			N/A
10/1/2018	SEKJPY	1:30:00 PM					N/A
10/1/2018	SEKJPY	3:30:00 PM	12.79	12.8			N/A
10/1/2018	SGDJPY	9:30:00 AM	83.13	83.16			N/A
10/1/2018	SGDJPY	11:30:00 AM	83.09	83.12			N/A
10/1/2018	SGDJPY	1:30:00 PM	83.14	83.17			N/A
10/1/2018	SGDJPY	3:30:00 PM	83.07	83.09			N/A
10/1/2018	SILVER	9:30:00 AM	14.38	14.76			N/A

10/1/2018	SILVER	11:30:00 AM	14.36	14.75			N/A
10/1/2018	SILVER	1:30:00 PM	14.32	14.71			N/A
10/1/2018	SILVER	3:30:00 PM	14.2	14.58			N/A
10/1/2018	USDCAD	9:30:00 AM	1.28237	1.28248			N/A
10/1/2018	USDCAD	11:30:00 AM	1.28034	1.28035			N/A
10/1/2018	USDCAD	1:30:00 PM	1.27998	1.27996			N/A
10/1/2018	USDCAD	3:30:00 PM	1.28169	1.28144			N/A
10/1/2018	USDCHF	9:30:00 AM	0.98142	0.98156			N/A
10/1/2018	USDCHF	11:30:00 AM	0.98353	0.98354			N/A
10/1/2018	USDCHF	1:30:00 PM	0.98274	0.98281			N/A
10/1/2018	USDCHF	3:30:00 PM	0.9835	0.98396			N/A
10/1/2018	USDCZK	9:30:00 AM	22.22	22.231			N/A
10/1/2018	USDCZK	11:30:00 AM	22.168	22.189			N/A
10/1/2018	USDCZK	1:30:00 PM	22.19	22.212			N/A
10/1/2018	USDCZK	3:30:00 PM	22.185	22.207			N/A
10/1/2018	USDDKK	9:30:00 AM	6.4381	6.4425			N/A
10/1/2018	USDDKK	11:30:00 AM	6.4231	6.4275			N/A
10/1/2018	USDDKK	1:30:00 PM	6.4247	6.4298			N/A
10/1/2018	USDDKK	3:30:00 PM	6.4292	6.4332			N/A
10/1/2018	USDHKD	9:30:00 AM					N/A
10/1/2018	USDHKD	11:30:00 AM	7.828	7.8285			N/A
10/1/2018	USDHKD	1:30:00 PM					N/A
10/1/2018	USDHKD	3:30:00 PM					N/A
10/1/2018	USDHUF	9:30:00 AM	279.35	279.72			N/A
10/1/2018	USDHUF	11:30:00 AM	278.35	278.76			N/A
10/1/2018	USDHUF	1:30:00 PM	278.29	278.75			N/A
10/1/2018	USDHUF	3:30:00 PM	278.26	278.66			N/A
10/1/2018	USDJPY	9:30:00 AM	113.993	114.006			N/A
10/1/2018	USDJPY	11:30:00 AM	113.945	113.954			N/A
10/1/2018	USDJPY	1:30:00 PM	113.991	114			N/A
10/1/2018	USDJPY	3:30:00 PM	113.972	113.962			N/A
10/1/2018	USDMXN	9:30:00 AM	18.543	18.551			N/A
10/1/2018	USDMXN	11:30:00 AM	18.514	18.517			N/A
10/1/2018	USDMXN	1:30:00 PM	18.548	18.554			N/A
10/1/2018	USDMXN	3:30:00 PM	18.591	18.596			N/A
10/1/2018	USDNOK	9:30:00 AM	8.1615	8.1696			N/A
10/1/2018	USDNOK	11:30:00 AM	8.1326	8.1393			N/A
10/1/2018	USDNOK	1:30:00 PM	8.1393	8.1466			N/A
10/1/2018	USDNOK	3:30:00 PM	8.1486	8.1562			N/A
10/1/2018	USDPLN	9:30:00 AM	3.6978	3.6987			N/A
10/1/2018	USDPLN	11:30:00 AM	3.6843	3.6848			N/A
10/1/2018	USDPLN	1:30:00 PM	3.6843	3.6855			N/A
10/1/2018	USDPLN	3:30:00 PM	3.6911	3.6916			N/A
10/1/2018	USDRUR	9:30:00 AM					N/A
10/1/2018	USDRUR	11:30:00 AM	65.399	65.781			N/A
10/1/2018	USDRUR	1:30:00 PM	65.422	65.81			N/A
10/1/2018	USDRUR	3:30:00 PM	65.461	65.835			N/A
10/1/2018	USDSEK	9:30:00 AM	8.9066	8.9109			N/A
10/1/2018	USDSEK	11:30:00 AM	8.8877	8.889			N/A
10/1/2018	USDSEK	1:30:00 PM	8.8985	8.9016			N/A

10/1/2018	USDSEK	3:30:00 PM	8.9115	8.9124			N/A
10/1/2018	USDSGD	9:30:00 AM	1.3703	1.3707			N/A
10/1/2018	USDSGD	11:30:00 AM	1.3703	1.3707			N/A
10/1/2018	USDSGD	1:30:00 PM	1.3701	1.3705			N/A
10/1/2018	USDSGD	3:30:00 PM	1.3711	1.3714			N/A
10/1/2018	USDZAR	9:30:00 AM	14.1402	14.1526			N/A
10/1/2018	USDZAR	11:30:00 AM	14.0821	14.0853			N/A
10/1/2018	USDZAR	1:30:00 PM	14.0908	14.1093			N/A
10/1/2018	USDZAR	3:30:00 PM	14.1506	14.165			N/A
10/1/2018	XAUUSD	9:30:00 AM	1186.6	1186.89			N/A
10/1/2018	XAUUSD	11:30:00 AM	1185.1	1185.23			N/A
10/1/2018	XAUUSD	1:30:00 PM	1185.3	1185.58			N/A
10/1/2018	XAUUSD	3:30:00 PM	1187.92	1188.03			N/A
10/1/2018	ZARJPY	9:30:00 AM					N/A
10/1/2018	ZARJPY	11:30:00 AM	8.05	8.09			N/A
10/1/2018	ZARJPY	1:30:00 PM					N/A
10/1/2018	ZARJPY	3:30:00 PM					N/A
10/2/2018	#AA	9:30:00 AM					N/A
10/2/2018	#AA	11:30:00 AM					N/A
10/2/2018	#AA	1:30:00 PM					N/A
10/2/2018	#AA	3:30:00 PM					N/A
10/2/2018	#AABA	9:30:00 AM					N/A
10/2/2018	#AABA	11:30:00 AM					N/A
10/2/2018	#AABA	1:30:00 PM					N/A
10/2/2018	#AABA	3:30:00 PM					N/A
10/2/2018	#AAL	9:30:00 AM					N/A
10/2/2018	#AAL	11:30:00 AM					N/A
10/2/2018	#AAL	1:30:00 PM					N/A
10/2/2018	#AAL	3:30:00 PM					N/A
10/2/2018	#AAPL	9:30:00 AM					N/A
10/2/2018	#AAPL	11:30:00 AM					N/A
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10/2/2018	#UPS	9:30:00 AM					N/A
10/2/2018	#UPS	11:30:00 AM					N/A
10/2/2018	#UPS	1:30:00 PM					N/A
10/2/2018	#UPS	3:30:00 PM					N/A
10/2/2018	#UTX	9:30:00 AM					N/A
10/2/2018	#UTX	11:30:00 AM					N/A
10/2/2018	#UTX	1:30:00 PM					N/A
10/2/2018	#UTX	3:30:00 PM					N/A
10/2/2018	#V	9:30:00 AM					N/A
10/2/2018	#V	11:30:00 AM					N/A
10/2/2018	#V	1:30:00 PM					N/A

10/2/2018	#V	3:30:00 PM					N/A
10/2/2018	#VOD	9:30:00 AM					N/A
10/2/2018	#VOD	11:30:00 AM					N/A
10/2/2018	#VOD	1:30:00 PM					N/A
10/2/2018	#VOD	3:30:00 PM					N/A
10/2/2018	#VZ	9:30:00 AM					N/A
10/2/2018	#VZ	11:30:00 AM					N/A
10/2/2018	#VZ	1:30:00 PM					N/A
10/2/2018	#VZ	3:30:00 PM					N/A
10/2/2018	#WDC	9:30:00 AM					N/A
10/2/2018	#WDC	11:30:00 AM					N/A
10/2/2018	#WDC	1:30:00 PM					N/A
10/2/2018	#WDC	3:30:00 PM					N/A
10/2/2018	#WFC	9:30:00 AM					N/A
10/2/2018	#WFC	11:30:00 AM					N/A
10/2/2018	#WFC	1:30:00 PM					N/A
10/2/2018	#WFC	3:30:00 PM					N/A
10/2/2018	#WMT	9:30:00 AM					N/A
10/2/2018	#WMT	11:30:00 AM					N/A
10/2/2018	#WMT	1:30:00 PM					N/A
10/2/2018	#WMT	3:30:00 PM					N/A
10/2/2018	#XOM	9:30:00 AM					N/A
10/2/2018	#XOM	11:30:00 AM					N/A
10/2/2018	#XOM	1:30:00 PM					N/A
10/2/2018	#XOM	3:30:00 PM					N/A
10/2/2018	#YHOO	9:30:00 AM					N/A
10/2/2018	#YHOO	11:30:00 AM					N/A
10/2/2018	#YHOO	1:30:00 PM					N/A
10/2/2018	#YHOO	3:30:00 PM					N/A
10/2/2018	#ZNGA	9:30:00 AM					N/A
10/2/2018	#ZNGA	11:30:00 AM					N/A
10/2/2018	#ZNGA	1:30:00 PM					N/A
10/2/2018	#ZNGA	3:30:00 PM					N/A
10/2/2018	AUDCAD	9:30:00 AM	0.92169	0.92231			N/A
10/2/2018	AUDCAD	11:30:00 AM	0.92003	0.92066			N/A
10/2/2018	AUDCAD	1:30:00 PM	0.92092	0.92157			N/A
10/2/2018	AUDCAD	3:30:00 PM	0.91996	0.92057			N/A
10/2/2018	AUDCHF	9:30:00 AM	0.70718	0.70753			N/A
10/2/2018	AUDCHF	11:30:00 AM	0.70541	0.70606			N/A
10/2/2018	AUDCHF	1:30:00 PM	0.70631	0.70694			N/A
10/2/2018	AUDCHF	3:30:00 PM	0.70629	0.70694			N/A
10/2/2018	AUDCZK	9:30:00 AM	16.12	16.127			N/A
10/2/2018	AUDCZK	11:30:00 AM	16.071	16.086			N/A
10/2/2018	AUDCZK	1:30:00 PM	16.057	16.072			N/A
10/2/2018	AUDCZK	3:30:00 PM	16.048	16.064			N/A
10/2/2018	AUDDKK	9:30:00 AM	4.6472	4.6512			N/A
10/2/2018	AUDDKK	11:30:00 AM	4.641	4.6452			N/A
10/2/2018	AUDDKK	1:30:00 PM	4.6427	4.647			N/A
10/2/2018	AUDDKK	3:30:00 PM	4.6385	4.6428			N/A
10/2/2018	AUDHKD	9:30:00 AM	5.6311	5.6334			N/A

10/2/2018	AUDHKD	11:30:00 AM	5.6181	5.622			N/A
10/2/2018	AUDHKD	1:30:00 PM	5.6239	5.6271			N/A
10/2/2018	AUDHKD	3:30:00 PM	5.6223	5.6261			N/A
10/2/2018	AUDHUF	9:30:00 AM	201.66	201.88			N/A
10/2/2018	AUDHUF	11:30:00 AM	201.46	201.68			N/A
10/2/2018	AUDHUF	1:30:00 PM	201.38	201.62			N/A
10/2/2018	AUDHUF	3:30:00 PM	201.12	201.35			N/A
10/2/2018	AUDJPY	9:30:00 AM	81.765	81.797			N/A
10/2/2018	AUDJPY	11:30:00 AM	81.52	81.586			N/A
10/2/2018	AUDJPY	1:30:00 PM	81.696	81.755			N/A
10/2/2018	AUDJPY	3:30:00 PM	81.709	81.741			N/A
10/2/2018	AUDMXN	9:30:00 AM	13.5059	13.5137			N/A
10/2/2018	AUDMXN	11:30:00 AM	13.5063	13.5146			N/A
10/2/2018	AUDMXN	1:30:00 PM	13.4976	13.5058			N/A
10/2/2018	AUDMXN	3:30:00 PM	13.4594	13.468			N/A
10/2/2018	AUDNOK	9:30:00 AM	5.8775	5.8834			N/A
10/2/2018	AUDNOK	11:30:00 AM	5.8783	5.884			N/A
10/2/2018	AUDNOK	1:30:00 PM	5.8743	5.8793			N/A
10/2/2018	AUDNOK	3:30:00 PM	5.87	5.8752			N/A
10/2/2018	AUDNZD	9:30:00 AM	1.09035	1.09113			N/A
10/2/2018	AUDNZD	11:30:00 AM	1.0894	1.09026			N/A
10/2/2018	AUDNZD	1:30:00 PM	1.09011	1.091			N/A
10/2/2018	AUDNZD	3:30:00 PM	1.08964	1.09037			N/A
10/2/2018	AUDPLN	9:30:00 AM	2.6764	2.6791			N/A
10/2/2018	AUDPLN	11:30:00 AM	2.6739	2.6767			N/A
10/2/2018	AUDPLN	1:30:00 PM	2.6726	2.6754			N/A
10/2/2018	AUDPLN	3:30:00 PM	2.6721	2.6745			N/A
10/2/2018	AUDSEK	9:30:00 AM	6.4629	6.4653			N/A
10/2/2018	AUDSEK	11:30:00 AM	6.4632	6.4655			N/A
10/2/2018	AUDSEK	1:30:00 PM	6.4616	6.4641			N/A
10/2/2018	AUDSEK	3:30:00 PM	6.4602	6.4632			N/A
10/2/2018	AUDSGD	9:30:00 AM	0.9887	0.9889			N/A
10/2/2018	AUDSGD	11:30:00 AM	0.9864	0.9867			N/A
10/2/2018	AUDSGD	1:30:00 PM	0.9873	0.9876			N/A
10/2/2018	AUDSGD	3:30:00 PM	0.9866	0.9869			N/A
10/2/2018	AUDUSD	9:30:00 AM	0.71925	0.71919			N/A
10/2/2018	AUDUSD	11:30:00 AM	0.71742	0.71753			N/A
10/2/2018	AUDUSD	1:30:00 PM	0.71834	0.71846			N/A
10/2/2018	AUDUSD	3:30:00 PM	0.71825	0.71836			N/A
10/2/2018	AUDZAR	9:30:00 AM	10.3015	10.3106			N/A
10/2/2018	AUDZAR	11:30:00 AM	10.2949	10.3036			N/A
10/2/2018	AUDZAR	1:30:00 PM	10.3297	10.3441			N/A
10/2/2018	AUDZAR	3:30:00 PM	10.3027	10.3159			N/A
10/2/2018	CADCHF	9:30:00 AM	0.76693	0.76734			N/A
10/2/2018	CADCHF	11:30:00 AM	0.76644	0.76716			N/A
10/2/2018	CADCHF	1:30:00 PM	0.76669	0.76731			N/A
10/2/2018	CADCHF	3:30:00 PM	0.76747	0.76814			N/A
10/2/2018	CADCZK	9:30:00 AM	17.489	17.496			N/A
10/2/2018	CADCZK	11:30:00 AM	17.468	17.482			N/A
10/2/2018	CADCZK	1:30:00 PM					N/A

10/2/2018	CADCZK	3:30:00 PM	17.445	17.458			N/A
10/2/2018	CADDKK	9:30:00 AM					N/A
10/2/2018	CADDKK	11:30:00 AM					N/A
10/2/2018	CADDKK	1:30:00 PM	5.041	5.045			N/A
10/2/2018	CADDKK	3:30:00 PM	5.043	5.046			N/A
10/2/2018	CADHKD	9:30:00 AM	6.1092	6.1119			N/A
10/2/2018	CADHKD	11:30:00 AM	6.1063	6.1102			N/A
10/2/2018	CADHKD	1:30:00 PM	6.1068	6.1102			N/A
10/2/2018	CADHKD	3:30:00 PM	6.1117	6.1156			N/A
10/2/2018	CADHUF	9:30:00 AM	218.82	218.97			N/A
10/2/2018	CADHUF	11:30:00 AM	218.99	219.14			N/A
10/2/2018	CADHUF	1:30:00 PM	218.7	218.87			N/A
10/2/2018	CADHUF	3:30:00 PM	218.66	218.79			N/A
10/2/2018	CADJPY	9:30:00 AM	88.683	88.724			N/A
10/2/2018	CADJPY	11:30:00 AM	88.581	88.649			N/A
10/2/2018	CADJPY	1:30:00 PM	88.683	88.75			N/A
10/2/2018	CADJPY	3:30:00 PM	88.802	88.819			N/A
10/2/2018	CADMXN	9:30:00 AM	14.6537	14.6631			N/A
10/2/2018	CADMXN	11:30:00 AM	14.6794	14.6906			N/A
10/2/2018	CADMXN	1:30:00 PM	14.6553	14.6667			N/A
10/2/2018	CADMXN	3:30:00 PM	14.6325	14.6385			N/A
10/2/2018	CADNOK	9:30:00 AM	6.3775	6.3823			N/A
10/2/2018	CADNOK	11:30:00 AM	6.3897	6.3938			N/A
10/2/2018	CADNOK	1:30:00 PM	6.3787	6.3836			N/A
10/2/2018	CADNOK	3:30:00 PM	6.3819	6.3854			N/A
10/2/2018	CADPLN	9:30:00 AM	2.9028	2.9045			N/A
10/2/2018	CADPLN	11:30:00 AM	2.9061	2.908			N/A
10/2/2018	CADPLN	1:30:00 PM	2.902	2.9038			N/A
10/2/2018	CADPLN	3:30:00 PM	2.9038	2.9056			N/A
10/2/2018	CADSEK	9:30:00 AM	7.0099	7.0128			N/A
10/2/2018	CADSEK	11:30:00 AM	7.0233	7.0261			N/A
10/2/2018	CADSEK	1:30:00 PM	7.0141	7.0178			N/A
10/2/2018	CADSEK	3:30:00 PM	7.0214	7.0235			N/A
10/2/2018	CADSGD	9:30:00 AM	1.0722	1.0725			N/A
10/2/2018	CADSGD	11:30:00 AM	1.072	1.0723			N/A
10/2/2018	CADSGD	1:30:00 PM	1.072	1.0723			N/A
10/2/2018	CADSGD	3:30:00 PM	1.0723	1.0726			N/A
10/2/2018	CADZAR	9:30:00 AM	11.17	11.1797			N/A
10/2/2018	CADZAR	11:30:00 AM	11.1839	11.1932			N/A
10/2/2018	CADZAR	1:30:00 PM	11.2092	11.2264			N/A
10/2/2018	CADZAR	3:30:00 PM	11.1933	11.2087			N/A
10/2/2018	CHFCZK	9:30:00 AM	22.801	22.808			N/A
10/2/2018	CHFCZK	11:30:00 AM	22.783	22.797			N/A
10/2/2018	CHFCZK	1:30:00 PM	22.735	22.749			N/A
10/2/2018	CHFCZK	3:30:00 PM	22.722	22.738			N/A
10/2/2018	CHFDKK	9:30:00 AM	6.571	6.575			N/A
10/2/2018	CHFDKK	11:30:00 AM	6.578	6.581			N/A
10/2/2018	CHFDKK	1:30:00 PM	6.572	6.576			N/A
10/2/2018	CHFDKK	3:30:00 PM					N/A
10/2/2018	CHFHKD	9:30:00 AM	7.9657	7.9678			N/A

10/2/2018	CHFHKD	11:30:00 AM	7.9645	7.9684			N/A
10/2/2018	CHFHKD	1:30:00 PM	7.9631	7.967			N/A
10/2/2018	CHFHKD	3:30:00 PM	7.9609	7.9647			N/A
10/2/2018	CHFHUF	9:30:00 AM	285.2	285.53			N/A
10/2/2018	CHFHUF	11:30:00 AM	285.53	285.89			N/A
10/2/2018	CHFHUF	1:30:00 PM	285.07	285.44			N/A
10/2/2018	CHFHUF	3:30:00 PM	284.71	285.07			N/A
10/2/2018	CHFJPY	9:30:00 AM	115.553	115.605			N/A
10/2/2018	CHFJPY	11:30:00 AM	115.481	115.548			N/A
10/2/2018	CHFJPY	1:30:00 PM	115.578	115.637			N/A
10/2/2018	CHFJPY	3:30:00 PM	115.605	115.629			N/A
10/2/2018	CHFMXN	9:30:00 AM	19.1025	19.1152			N/A
10/2/2018	CHFMXN	11:30:00 AM	19.1441	19.1576			N/A
10/2/2018	CHFMXN	1:30:00 PM	19.1069	19.1211			N/A
10/2/2018	CHFMXN	3:30:00 PM	19.056	19.0675			N/A
10/2/2018	CHFNOK	9:30:00 AM	8.3144	8.3202			N/A
10/2/2018	CHFNOK	11:30:00 AM	8.3328	8.3392			N/A
10/2/2018	CHFNOK	1:30:00 PM	8.3171	8.3236			N/A
10/2/2018	CHFNOK	3:30:00 PM	8.3112	8.3178			N/A
10/2/2018	CHFPLN	9:30:00 AM	3.7849	3.787			N/A
10/2/2018	CHFPLN	11:30:00 AM	3.7894	3.7925			N/A
10/2/2018	CHFPLN	1:30:00 PM	3.7832	3.7859			N/A
10/2/2018	CHFPLN	3:30:00 PM	3.7823	3.7845			N/A
10/2/2018	CHFSEK	9:30:00 AM	9.1405	9.1424			N/A
10/2/2018	CHFSEK	11:30:00 AM	9.1615	9.1636			N/A
10/2/2018	CHFSEK	1:30:00 PM	9.1475	9.149			N/A
10/2/2018	CHFSEK	3:30:00 PM	9.1463	9.1486			N/A
10/2/2018	CHFSGD	9:30:00 AM	1.398	1.3982			N/A
10/2/2018	CHFSGD	11:30:00 AM	1.3979	1.3983			N/A
10/2/2018	CHFSGD	1:30:00 PM	1.3974	1.3978			N/A
10/2/2018	CHFSGD	3:30:00 PM	1.3964	1.3968			N/A
10/2/2018	CHFZAR	9:30:00 AM	14.5645	14.5738			N/A
10/2/2018	CHFZAR	11:30:00 AM	14.5928	14.5942			N/A
10/2/2018	CHFZAR	1:30:00 PM	14.6199	14.6337			N/A
10/2/2018	CHFZAR	3:30:00 PM	14.5827	14.5945			N/A
10/2/2018	CZKJPY	9:30:00 AM	5.071	5.072			N/A
10/2/2018	CZKJPY	11:30:00 AM	5.071	5.075			N/A
10/2/2018	CZKJPY	1:30:00 PM	5.085	5.089			N/A
10/2/2018	CZKJPY	3:30:00 PM	5.089	5.091			N/A
10/2/2018	DKKJPY	9:30:00 AM					N/A
10/2/2018	DKKJPY	11:30:00 AM	17.57	17.59			N/A
10/2/2018	DKKJPY	1:30:00 PM	17.6	17.61			N/A
10/2/2018	DKKJPY	3:30:00 PM					N/A
10/2/2018	EURAUD	9:30:00 AM	1.6037	1.60386			N/A
10/2/2018	EURAUD	11:30:00 AM	1.60587	1.60603			N/A
10/2/2018	EURAUD	1:30:00 PM	1.60523	1.60551			N/A
10/2/2018	EURAUD	3:30:00 PM	1.60665	1.60693			N/A
10/2/2018	EURCAD	9:30:00 AM	1.47864	1.4793			N/A
10/2/2018	EURCAD	11:30:00 AM	1.47807	1.47861			N/A
10/2/2018	EURCAD	1:30:00 PM	1.47881	1.47968			N/A

10/2/2018	EURCAD	3:30:00 PM	1.47873	1.4792			N/A
10/2/2018	EURCHF	9:30:00 AM	1.13441	1.13418			N/A
10/2/2018	EURCHF	11:30:00 AM	1.13335	1.13331			N/A
10/2/2018	EURCHF	1:30:00 PM	1.1343	1.13426			N/A
10/2/2018	EURCHF	3:30:00 PM	1.13495	1.13554			N/A
10/2/2018	EURCZK	9:30:00 AM	25.854	25.881			N/A
10/2/2018	EURCZK	11:30:00 AM	25.808	25.844			N/A
10/2/2018	EURCZK	1:30:00 PM	25.775	25.813			N/A
10/2/2018	EURCZK	3:30:00 PM	25.787	25.826			N/A
10/2/2018	EURDKK	9:30:00 AM	7.455	7.4563			N/A
10/2/2018	EURDKK	11:30:00 AM	7.4555	7.4567			N/A
10/2/2018	EURDKK	1:30:00 PM	7.4551	7.4562			N/A
10/2/2018	EURDKK	3:30:00 PM	7.4556	7.4565			N/A
10/2/2018	EURGBP	9:30:00 AM	0.88747	0.88756			N/A
10/2/2018	EURGBP	11:30:00 AM	0.88829	0.88832			N/A
10/2/2018	EURGBP	1:30:00 PM	0.8893	0.8893			N/A
10/2/2018	EURGBP	3:30:00 PM	0.8899	0.8898			N/A
10/2/2018	EURHKD	9:30:00 AM	9.0327	9.0363			N/A
10/2/2018	EURHKD	11:30:00 AM	9.0256	9.0286			N/A
10/2/2018	EURHKD	1:30:00 PM	9.0312	9.0357			N/A
10/2/2018	EURHKD	3:30:00 PM	9.0359	9.04			N/A
10/2/2018	EURHUF	9:30:00 AM	323.33	324.08			N/A
10/2/2018	EURHUF	11:30:00 AM	323.44	324.12			N/A
10/2/2018	EURHUF	1:30:00 PM	323.2	323.95			N/A
10/2/2018	EURHUF	3:30:00 PM	323.05	323.75			N/A
10/2/2018	EURJPY	9:30:00 AM	131.143	131.114			N/A
10/2/2018	EURJPY	11:30:00 AM	130.962	130.94			N/A
10/2/2018	EURJPY	1:30:00 PM	131.173	131.173			N/A
10/2/2018	EURJPY	3:30:00 PM	131.311	131.274			N/A
10/2/2018	EURMXN	9:30:00 AM	21.6652	21.6837			N/A
10/2/2018	EURMXN	11:30:00 AM	21.6962	21.7111			N/A
10/2/2018	EURMXN	1:30:00 PM	21.6722	21.6902			N/A
10/2/2018	EURMXN	3:30:00 PM	21.6299	21.646			N/A
10/2/2018	EURNOK	9:30:00 AM	9.4286	9.4403			N/A
10/2/2018	EURNOK	11:30:00 AM	9.4415	9.4536			N/A
10/2/2018	EURNOK	1:30:00 PM	9.4316	9.4437			N/A
10/2/2018	EURNOK	3:30:00 PM	9.4332	9.4445			N/A
10/2/2018	EURNZD	9:30:00 AM	1.74908	1.74983			N/A
10/2/2018	EURNZD	11:30:00 AM	1.75011	1.75075			N/A
10/2/2018	EURNZD	1:30:00 PM	1.75058	1.75136			N/A
10/2/2018	EURNZD	3:30:00 PM	1.75126	1.75199			N/A
10/2/2018	EURPLN	9:30:00 AM	4.293	4.2955			N/A
10/2/2018	EURPLN	11:30:00 AM	4.2945	4.2976			N/A
10/2/2018	EURPLN	1:30:00 PM	4.2913	4.2941			N/A
10/2/2018	EURPLN	3:30:00 PM	4.294	4.2962			N/A
10/2/2018	EURRUR	9:30:00 AM					N/A
10/2/2018	EURRUR	11:30:00 AM	75.156	75.586			N/A
10/2/2018	EURRUR	1:30:00 PM	75.139	75.57			N/A
10/2/2018	EURRUR	3:30:00 PM	75.016	75.437			N/A
10/2/2018	EURSEK	9:30:00 AM	10.366	10.3703			N/A

10/2/2018	EURSEK	11:30:00 AM	10.3808	10.3851			N/A
10/2/2018	EURSEK	1:30:00 PM	10.374	10.3784			N/A
10/2/2018	EURSEK	3:30:00 PM	10.3814	10.3856			N/A
10/2/2018	EURSGD	9:30:00 AM	1.5854	1.5861			N/A
10/2/2018	EURSGD	11:30:00 AM	1.5842	1.5847			N/A
10/2/2018	EURSGD	1:30:00 PM	1.585	1.5857			N/A
10/2/2018	EURSGD	3:30:00 PM	1.5851	1.5859			N/A
10/2/2018	EURUSD	9:30:00 AM	1.153	1.15295			N/A
10/2/2018	EURUSD	11:30:00 AM	1.15191	1.15173			N/A
10/2/2018	EURUSD	1:30:00 PM	1.15287	1.15288			N/A
10/2/2018	EURUSD	3:30:00 PM	1.15372	1.15369			N/A
10/2/2018	EURZAR	9:30:00 AM	16.5219	16.5324			N/A
10/2/2018	EURZAR	11:30:00 AM	16.5355	16.5446			N/A
10/2/2018	EURZAR	1:30:00 PM	16.5835	16.6022			N/A
10/2/2018	EURZAR	3:30:00 PM	16.5553	16.5712			N/A
10/2/2018	GBPAUD	9:30:00 AM	1.80673	1.80724			N/A
10/2/2018	GBPAUD	11:30:00 AM	1.80752	1.80814			N/A
10/2/2018	GBPAUD	1:30:00 PM	1.80478	1.8053			N/A
10/2/2018	GBPAUD	3:30:00 PM	1.80535	1.80589			N/A
10/2/2018	GBPCAD	9:30:00 AM	1.66575	1.66636			N/A
10/2/2018	GBPCAD	11:30:00 AM	1.66339	1.66414			N/A
10/2/2018	GBPCAD	1:30:00 PM	1.66254	1.66328			N/A
10/2/2018	GBPCAD	3:30:00 PM	1.66132	1.66197			N/A
10/2/2018	GBPCHF	9:30:00 AM	1.27806	1.27813			N/A
10/2/2018	GBPCHF	11:30:00 AM	1.27562	1.27605			N/A
10/2/2018	GBPCHF	1:30:00 PM	1.27542	1.27553			N/A
10/2/2018	GBPCHF	3:30:00 PM	1.27551	1.27612			N/A
10/2/2018	GBPCZK	9:30:00 AM	29.135	29.141			N/A
10/2/2018	GBPCZK	11:30:00 AM	29.06	29.078			N/A
10/2/2018	GBPCZK	1:30:00 PM	28.992	29.012			N/A
10/2/2018	GBPCZK	3:30:00 PM	28.985	29			N/A
10/2/2018	GBPDKK	9:30:00 AM	8.397	8.408			N/A
10/2/2018	GBPDKK	11:30:00 AM	8.39	8.401			N/A
10/2/2018	GBPDKK	1:30:00 PM	8.38	8.391			N/A
10/2/2018	GBPDKK	3:30:00 PM	8.375	8.385			N/A
10/2/2018	GBPHKD	9:30:00 AM	10.1757	10.1816			N/A
10/2/2018	GBPHKD	11:30:00 AM	10.1587	10.1646			N/A
10/2/2018	GBPHKD	1:30:00 PM	10.1542	10.1578			N/A
10/2/2018	GBPHKD	3:30:00 PM	10.1534	10.158			N/A
10/2/2018	GBPHUF	9:30:00 AM	364.38	364.86			N/A
10/2/2018	GBPHUF	11:30:00 AM	364.18	364.65			N/A
10/2/2018	GBPHUF	1:30:00 PM	363.51	363.96			N/A
10/2/2018	GBPHUF	3:30:00 PM	363.17	363.58			N/A
10/2/2018	GBPJPY	9:30:00 AM	147.776	147.778			N/A
10/2/2018	GBPJPY	11:30:00 AM	147.418	147.457			N/A
10/2/2018	GBPJPY	1:30:00 PM	147.505	147.534			N/A
10/2/2018	GBPJPY	3:30:00 PM	147.572	147.543			N/A
10/2/2018	GBPMXN	9:30:00 AM	24.4074	24.4226			N/A
10/2/2018	GBPMXN	11:30:00 AM	24.4184	24.4329			N/A
10/2/2018	GBPMXN	1:30:00 PM	24.3679	24.3797			N/A

10/2/2018	GBPMXN	3:30:00 PM	24.3083	24.3163			N/A
10/2/2018	GBPNOK	9:30:00 AM	10.6256	10.6356			N/A
10/2/2018	GBPNOK	11:30:00 AM	10.6308	10.6403			N/A
10/2/2018	GBPNOK	1:30:00 PM	10.6071	10.6181			N/A
10/2/2018	GBPNOK	3:30:00 PM	10.6031	10.6119			N/A
10/2/2018	GBPNZD	9:30:00 AM	1.97086	1.97155			N/A
10/2/2018	GBPNZD	11:30:00 AM	1.97021	1.97089			N/A
10/2/2018	GBPNZD	1:30:00 PM	1.96868	1.96918			N/A
10/2/2018	GBPNZD	3:30:00 PM	1.96834	1.96853			N/A
10/2/2018	GBPPLN	9:30:00 AM	4.838	4.8393			N/A
10/2/2018	GBPPLN	11:30:00 AM	4.8356	4.8367			N/A
10/2/2018	GBPPLN	1:30:00 PM	4.8265	4.8278			N/A
10/2/2018	GBPPLN	3:30:00 PM	4.8267	4.8268			N/A
10/2/2018	GBPSEK	9:30:00 AM	11.6785	11.6867			N/A
10/2/2018	GBPSEK	11:30:00 AM	11.6844	11.6926			N/A
10/2/2018	GBPSEK	1:30:00 PM	11.6631	11.6725			N/A
10/2/2018	GBPSEK	3:30:00 PM	11.6657	11.6722			N/A
10/2/2018	GBPSGD	9:30:00 AM	1.7865	1.7872			N/A
10/2/2018	GBPSGD	11:30:00 AM	1.7833	1.784			N/A
10/2/2018	GBPSGD	1:30:00 PM	1.7824	1.7829			N/A
10/2/2018	GBPSGD	3:30:00 PM	1.7815	1.7819			N/A
10/2/2018	GBPUSD	9:30:00 AM	1.29922	1.2992			N/A
10/2/2018	GBPUSD	11:30:00 AM	1.29668	1.29673			N/A
10/2/2018	GBPUSD	1:30:00 PM	1.29644	1.29636			N/A
10/2/2018	GBPUSD	3:30:00 PM	1.29669	1.2965			N/A
10/2/2018	GBPZAR	9:30:00 AM	18.6131	18.6326			N/A
10/2/2018	GBPZAR	11:30:00 AM	18.6122	18.6264			N/A
10/2/2018	GBPZAR	1:30:00 PM	18.6438	18.6727			N/A
10/2/2018	GBPZAR	3:30:00 PM	18.6026	18.6262			N/A
10/2/2018	GOLD	9:30:00 AM	1193.33	1193.51			N/A
10/2/2018	GOLD	11:30:00 AM	1192.56	1192.66			N/A
10/2/2018	GOLD	1:30:00 PM	1191.59	1191.48			N/A
10/2/2018	GOLD	3:30:00 PM	1202.29	1201.61			N/A
10/2/2018	HKDJPY	9:30:00 AM	14.52	14.53			N/A
10/2/2018	HKDJPY	11:30:00 AM					N/A
10/2/2018	HKDJPY	1:30:00 PM					N/A
10/2/2018	HKDJPY	3:30:00 PM	14.52	14.54			N/A
10/2/2018	HUFJPY	9:30:00 AM	0.4053	0.4056			N/A
10/2/2018	HUFJPY	11:30:00 AM	0.4045	0.4047			N/A
10/2/2018	HUFJPY	1:30:00 PM	0.4055	0.4058			N/A
10/2/2018	HUFJPY	3:30:00 PM	0.4063	0.4066			N/A
10/2/2018	MXNJPY	9:30:00 AM					N/A
10/2/2018	MXNJPY	11:30:00 AM	6.04	6.05			N/A
10/2/2018	MXNJPY	1:30:00 PM					N/A
10/2/2018	MXNJPY	3:30:00 PM					N/A
10/2/2018	NOKJPY	9:30:00 AM					N/A
10/2/2018	NOKJPY	11:30:00 AM					N/A
10/2/2018	NOKJPY	1:30:00 PM					N/A
10/2/2018	NOKJPY	3:30:00 PM	13.91	13.94			N/A
10/2/2018	NZDCAD	9:30:00 AM	0.8448	0.84552			N/A

10/2/2018	NZDCAD	11:30:00 AM	0.844	0.84469			N/A
10/2/2018	NZDCAD	1:30:00 PM	0.84422	0.84496			N/A
10/2/2018	NZDCAD	3:30:00 PM	0.84384	0.84435			N/A
10/2/2018	NZDCHF	9:30:00 AM	0.64813	0.64861			N/A
10/2/2018	NZDCHF	11:30:00 AM	0.6471	0.64779			N/A
10/2/2018	NZDCHF	1:30:00 PM	0.64747	0.64814			N/A
10/2/2018	NZDCHF	3:30:00 PM	0.64778	0.64842			N/A
10/2/2018	NZDCZK	9:30:00 AM	14.778	14.783			N/A
10/2/2018	NZDCZK	11:30:00 AM	14.746	14.756			N/A
10/2/2018	NZDCZK	1:30:00 PM	14.722	14.734			N/A
10/2/2018	NZDCZK	3:30:00 PM	14.721	14.734			N/A
10/2/2018	NZDDKK	9:30:00 AM					N/A
10/2/2018	NZDDKK	11:30:00 AM					N/A
10/2/2018	NZDDKK	1:30:00 PM					N/A
10/2/2018	NZDDKK	3:30:00 PM					N/A
10/2/2018	NZDHKD	9:30:00 AM	5.1615	5.1636			N/A
10/2/2018	NZDHKD	11:30:00 AM	5.1541	5.1571			N/A
10/2/2018	NZDHKD	1:30:00 PM	5.156	5.1583			N/A
10/2/2018	NZDHKD	3:30:00 PM	5.1567	5.1596			N/A
10/2/2018	NZDHUF	9:30:00 AM	184.82	185.1			N/A
10/2/2018	NZDHUF	11:30:00 AM	184.77	185.06			N/A
10/2/2018	NZDHUF	1:30:00 PM	184.59	184.87			N/A
10/2/2018	NZDHUF	3:30:00 PM	184.42	184.7			N/A
10/2/2018	NZDJPY	9:30:00 AM	74.941	74.989			N/A
10/2/2018	NZDJPY	11:30:00 AM	74.789	74.854			N/A
10/2/2018	NZDJPY	1:30:00 PM	74.894	74.961			N/A
10/2/2018	NZDJPY	3:30:00 PM	74.941	74.99			N/A
10/2/2018	NZDMXN	9:30:00 AM	12.3812	12.3865			N/A
10/2/2018	NZDMXN	11:30:00 AM	12.3918	12.3969			N/A
10/2/2018	NZDMXN	1:30:00 PM	12.3744	12.3802			N/A
10/2/2018	NZDMXN	3:30:00 PM	12.3461	12.3506			N/A
10/2/2018	NZDNOK	9:30:00 AM	5.3885	5.3924			N/A
10/2/2018	NZDNOK	11:30:00 AM	5.3932	5.3971			N/A
10/2/2018	NZDNOK	1:30:00 PM	5.3856	5.3891			N/A
10/2/2018	NZDNOK	3:30:00 PM	5.3843	5.3877			N/A
10/2/2018	NZDPLN	9:30:00 AM	2.4527	2.454			N/A
10/2/2018	NZDPLN	11:30:00 AM	2.4529	2.4542			N/A
10/2/2018	NZDPLN	1:30:00 PM	2.4502	2.4516			N/A
10/2/2018	NZDPLN	3:30:00 PM	2.4499	2.4508			N/A
10/2/2018	NZDSEK	9:30:00 AM	5.9208	5.927			N/A
10/2/2018	NZDSEK	11:30:00 AM	5.9261	5.9319			N/A
10/2/2018	NZDSEK	1:30:00 PM	5.9198	5.9266			N/A
10/2/2018	NZDSEK	3:30:00 PM	5.9218	5.9287			N/A
10/2/2018	NZDSGD	9:30:00 AM	0.9063	0.907			N/A
10/2/2018	NZDSGD	11:30:00 AM	0.905	0.9057			N/A
10/2/2018	NZDSGD	1:30:00 PM	0.9052	0.9056			N/A
10/2/2018	NZDSGD	3:30:00 PM	0.905	0.9056			N/A
10/2/2018	NZDUSD	9:30:00 AM	0.6588	0.65888			N/A
10/2/2018	NZDUSD	11:30:00 AM	0.65775	0.65786			N/A
10/2/2018	NZDUSD	1:30:00 PM	0.65814	0.65827			N/A

10/2/2018	NZDUSD	3:30:00 PM	0.65837	0.65844			N/A
10/2/2018	NZDZAR	9:30:00 AM	9.4428	9.4414			N/A
10/2/2018	NZDZAR	11:30:00 AM	9.4448	9.4426			N/A
10/2/2018	NZDZAR	1:30:00 PM	9.4695	9.473			N/A
10/2/2018	NZDZAR	3:30:00 PM	9.4492	9.4511			N/A
10/2/2018	SEKJPY	9:30:00 AM					N/A
10/2/2018	SEKJPY	11:30:00 AM	12.62	12.63			N/A
10/2/2018	SEKJPY	1:30:00 PM	12.65	12.67			N/A
10/2/2018	SEKJPY	3:30:00 PM					N/A
10/2/2018	SGDJPY	9:30:00 AM	82.68	82.7			N/A
10/2/2018	SGDJPY	11:30:00 AM	82.63	82.66			N/A
10/2/2018	SGDJPY	1:30:00 PM	82.73	82.76			N/A
10/2/2018	SGDJPY	3:30:00 PM	82.8	82.81			N/A
10/2/2018	SILVER	9:30:00 AM	14.35	14.73			N/A
10/2/2018	SILVER	11:30:00 AM	14.29	14.68			N/A
10/2/2018	SILVER	1:30:00 PM	14.34	14.71			N/A
10/2/2018	SILVER	3:30:00 PM	14.62	14.97			N/A
10/2/2018	USDCAD	9:30:00 AM	1.28245	1.28232			N/A
10/2/2018	USDCAD	11:30:00 AM	1.28316	1.28312			N/A
10/2/2018	USDCAD	1:30:00 PM	1.2827	1.28276			N/A
10/2/2018	USDCAD	3:30:00 PM	1.28159	1.28154			N/A
10/2/2018	USDCHF	9:30:00 AM	0.98379	0.98357			N/A
10/2/2018	USDCHF	11:30:00 AM	0.98385	0.98396			N/A
10/2/2018	USDCHF	1:30:00 PM	0.98387	0.98386			N/A
10/2/2018	USDCHF	3:30:00 PM	0.98359	0.98436			N/A
10/2/2018	USDCZK	9:30:00 AM	22.426	22.438			N/A
10/2/2018	USDCZK	11:30:00 AM	22.41	22.433			N/A
10/2/2018	USDCZK	1:30:00 PM	22.362	22.386			N/A
10/2/2018	USDCZK	3:30:00 PM	22.352	22.375			N/A
10/2/2018	USDDKK	9:30:00 AM	6.467	6.4715			N/A
10/2/2018	USDDKK	11:30:00 AM	6.4742	6.478			N/A
10/2/2018	USDDKK	1:30:00 PM	6.4676	6.4726			N/A
10/2/2018	USDDKK	3:30:00 PM	6.4632	6.4678			N/A
10/2/2018	USDHKD	9:30:00 AM	7.8354	7.8356			N/A
10/2/2018	USDHKD	11:30:00 AM	7.8369	7.8372			N/A
10/2/2018	USDHKD	1:30:00 PM	7.8351	7.8355			N/A
10/2/2018	USDHKD	3:30:00 PM					N/A
10/2/2018	USDHUF	9:30:00 AM	280.54	280.97			N/A
10/2/2018	USDHUF	11:30:00 AM	280.9	281.32			N/A
10/2/2018	USDHUF	1:30:00 PM	280.43	280.88			N/A
10/2/2018	USDHUF	3:30:00 PM	280.1	280.55			N/A
10/2/2018	USDJPY	9:30:00 AM	113.768	113.753			N/A
10/2/2018	USDJPY	11:30:00 AM	113.717	113.725			N/A
10/2/2018	USDJPY	1:30:00 PM	113.81	113.82		10	N/A
10/2/2018	USDJPY	3:30:00 PM	113.85	113.813			N/A
10/2/2018	USDMXN	9:30:00 AM	18.794	18.802			N/A
10/2/2018	USDMXN	11:30:00 AM	18.839	18.846			N/A
10/2/2018	USDMXN	1:30:00 PM	18.803	18.809			N/A
10/2/2018	USDMXN	3:30:00 PM	18.754	18.757			N/A
10/2/2018	USDNOK	9:30:00 AM	8.1797	8.1868			N/A

10/2/2018	USDNOK	11:30:00 AM	8.1996	8.2062			N/A
10/2/2018	USDNOK	1:30:00 PM	8.1828	8.1907			N/A
10/2/2018	USDNOK	3:30:00 PM	8.1784	8.1863			N/A
10/2/2018	USDPLN	9:30:00 AM	3.7239	3.7248			N/A
10/2/2018	USDPLN	11:30:00 AM	3.7293	3.73			N/A
10/2/2018	USDPLN	1:30:00 PM	3.7228	3.7238			N/A
10/2/2018	USDPLN	3:30:00 PM	3.7226	3.7229			N/A
10/2/2018	USDRUR	9:30:00 AM					N/A
10/2/2018	USDRUR	11:30:00 AM	65.317	65.711			N/A
10/2/2018	USDRUR	1:30:00 PM	65.246	65.632			N/A
10/2/2018	USDRUR	3:30:00 PM	65.091	65.47			N/A
10/2/2018	USDSEK	9:30:00 AM	8.9889	8.9922			N/A
10/2/2018	USDSEK	11:30:00 AM	9.0113	9.0143			N/A
10/2/2018	USDSEK	1:30:00 PM	8.9965	9.0002			N/A
10/2/2018	USDSEK	3:30:00 PM	8.9968	9.0004			N/A
10/2/2018	USDSGD	9:30:00 AM	1.3751	1.3755			N/A
10/2/2018	USDSGD	11:30:00 AM	1.3753	1.3756			N/A
10/2/2018	USDSGD	1:30:00 PM	1.3748	1.3752			N/A
10/2/2018	USDSGD	3:30:00 PM	1.374	1.3744			N/A
10/2/2018	USDZAR	9:30:00 AM	14.3275	14.3399			N/A
10/2/2018	USDZAR	11:30:00 AM	14.355	14.3623			N/A
10/2/2018	USDZAR	1:30:00 PM	14.383	14.4004			N/A
10/2/2018	USDZAR	3:30:00 PM	14.349	14.364			N/A
10/2/2018	XAUUSD	9:30:00 AM	1193.33	1193.51			N/A
10/2/2018	XAUUSD	11:30:00 AM	1192.55	1192.66			N/A
10/2/2018	XAUUSD	1:30:00 PM	1191.59	1191.48			N/A
10/2/2018	XAUUSD	3:30:00 PM	1202.29	1201.61			N/A
10/2/2018	ZARJPY	9:30:00 AM	7.88	7.92			N/A
10/2/2018	ZARJPY	11:30:00 AM					N/A
10/2/2018	ZARJPY	1:30:00 PM					N/A
10/2/2018	ZARJPY	3:30:00 PM					N/A
10/3/2018	#AA	9:30:00 AM					N/A
10/3/2018	#AA	11:30:00 AM					N/A
10/3/2018	#AA	1:30:00 PM					N/A
10/3/2018	#AA	3:30:00 PM					N/A
10/3/2018	#AABA	9:30:00 AM					N/A
10/3/2018	#AABA	11:30:00 AM					N/A
10/3/2018	#AABA	1:30:00 PM					N/A
10/3/2018	#AABA	3:30:00 PM					N/A
10/3/2018	#AAL	9:30:00 AM					N/A
10/3/2018	#AAL	11:30:00 AM					N/A
10/3/2018	#AAL	1:30:00 PM					N/A
10/3/2018	#AAL	3:30:00 PM					N/A
10/3/2018	#AAPL	9:30:00 AM					N/A
10/3/2018	#AAPL	11:30:00 AM					N/A
10/3/2018	#AAPL	1:30:00 PM					N/A
10/3/2018	#AAPL	3:30:00 PM					N/A
10/3/2018	#ADBE	9:30:00 AM					N/A
10/3/2018	#ADBE	11:30:00 AM					N/A
10/3/2018	#ADBE	1:30:00 PM					N/A

10/3/2018	#ADBE	3:30:00 PM					N/A
10/3/2018	#AIG	9:30:00 AM					N/A
10/3/2018	#AIG	11:30:00 AM					N/A
10/3/2018	#AIG	1:30:00 PM					N/A
10/3/2018	#AIG	3:30:00 PM					N/A
10/3/2018	#AMD	9:30:00 AM					N/A
10/3/2018	#AMD	11:30:00 AM					N/A
10/3/2018	#AMD	1:30:00 PM					N/A
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10/3/2018	#VOD	11:30:00 AM					N/A
10/3/2018	#VOD	1:30:00 PM					N/A
10/3/2018	#VOD	3:30:00 PM					N/A
10/3/2018	#VZ	9:30:00 AM					N/A
10/3/2018	#VZ	11:30:00 AM					N/A
10/3/2018	#VZ	1:30:00 PM					N/A
10/3/2018	#VZ	3:30:00 PM					N/A
10/3/2018	#WDC	9:30:00 AM					N/A
10/3/2018	#WDC	11:30:00 AM					N/A
10/3/2018	#WDC	1:30:00 PM					N/A
10/3/2018	#WDC	3:30:00 PM					N/A
10/3/2018	#WFC	9:30:00 AM					N/A
10/3/2018	#WFC	11:30:00 AM					N/A
10/3/2018	#WFC	1:30:00 PM					N/A
10/3/2018	#WFC	3:30:00 PM					N/A
10/3/2018	#WMT	9:30:00 AM					N/A
10/3/2018	#WMT	11:30:00 AM					N/A
10/3/2018	#WMT	1:30:00 PM					N/A
10/3/2018	#WMT	3:30:00 PM					N/A
10/3/2018	#XOM	9:30:00 AM					N/A
10/3/2018	#XOM	11:30:00 AM					N/A
10/3/2018	#XOM	1:30:00 PM					N/A
10/3/2018	#XOM	3:30:00 PM					N/A
10/3/2018	#YHOO	9:30:00 AM					N/A
10/3/2018	#YHOO	11:30:00 AM					N/A
10/3/2018	#YHOO	1:30:00 PM					N/A
10/3/2018	#YHOO	3:30:00 PM					N/A
10/3/2018	#ZNGA	9:30:00 AM					N/A
10/3/2018	#ZNGA	11:30:00 AM					N/A
10/3/2018	#ZNGA	1:30:00 PM					N/A
10/3/2018	#ZNGA	3:30:00 PM					N/A
10/3/2018	AUDCAD	9:30:00 AM	0.91923	0.91988			N/A
10/3/2018	AUDCAD	11:30:00 AM	0.91785	0.91855			N/A
10/3/2018	AUDCAD	1:30:00 PM	0.91725	0.9179			N/A

10/3/2018	AUDCAD	3:30:00 PM	0.91751	0.9181			N/A
10/3/2018	AUDCHF	9:30:00 AM	0.70569	0.70631			N/A
10/3/2018	AUDCHF	11:30:00 AM	0.70507	0.70579			N/A
10/3/2018	AUDCHF	1:30:00 PM	0.70593	0.70659			N/A
10/3/2018	AUDCHF	3:30:00 PM	0.70636	0.707			N/A
10/3/2018	AUDCZK	9:30:00 AM	15.971	15.986			N/A
10/3/2018	AUDCZK	11:30:00 AM	15.947	15.962			N/A
10/3/2018	AUDCZK	1:30:00 PM	15.958	15.975			N/A
10/3/2018	AUDCZK	3:30:00 PM	15.947	15.962			N/A
10/3/2018	AUDDKK	9:30:00 AM	4.6146	4.6191			N/A
10/3/2018	AUDDKK	11:30:00 AM	4.6096	4.6141			N/A
10/3/2018	AUDDKK	1:30:00 PM	4.615	4.6197			N/A
10/3/2018	AUDDKK	3:30:00 PM	4.62	4.6241			N/A
10/3/2018	AUDHKD	9:30:00 AM	5.6162	5.6192			N/A
10/3/2018	AUDHKD	11:30:00 AM	5.6036	5.6074			N/A
10/3/2018	AUDHKD	1:30:00 PM	5.6017	5.6056			N/A
10/3/2018	AUDHKD	3:30:00 PM	5.6002	5.6037			N/A
10/3/2018	AUDHUF	9:30:00 AM	199.8	200.03			N/A
10/3/2018	AUDHUF	11:30:00 AM	199.43	199.66			N/A
10/3/2018	AUDHUF	1:30:00 PM	199.86	200.09			N/A
10/3/2018	AUDHUF	3:30:00 PM	199.71	199.83			N/A
10/3/2018	AUDJPY	9:30:00 AM	81.533	81.591			N/A
10/3/2018	AUDJPY	11:30:00 AM	81.374	81.441			N/A
10/3/2018	AUDJPY	1:30:00 PM	81.35	81.412			N/A
10/3/2018	AUDJPY	3:30:00 PM	81.365	81.412			N/A
10/3/2018	AUDMXN	9:30:00 AM	13.4465	13.4562			N/A
10/3/2018	AUDMXN	11:30:00 AM	13.4097	13.4176			N/A
10/3/2018	AUDMXN	1:30:00 PM	13.4345	13.4445			N/A
10/3/2018	AUDMXN	3:30:00 PM	13.3812	13.3892			N/A
10/3/2018	AUDNOK	9:30:00 AM	5.8427	5.8477			N/A
10/3/2018	AUDNOK	11:30:00 AM	5.8391	5.8436			N/A
10/3/2018	AUDNOK	1:30:00 PM	5.848	5.8539			N/A
10/3/2018	AUDNOK	3:30:00 PM	5.8533	5.8585			N/A
10/3/2018	AUDNZD	9:30:00 AM	1.08973	1.0906			N/A
10/3/2018	AUDNZD	11:30:00 AM	1.0896	1.09048			N/A
10/3/2018	AUDNZD	1:30:00 PM	1.09002	1.09087			N/A
10/3/2018	AUDNZD	3:30:00 PM	1.09072	1.09153			N/A
10/3/2018	AUDPLN	9:30:00 AM	2.6555	2.6586			N/A
10/3/2018	AUDPLN	11:30:00 AM	2.6538	2.6567			N/A
10/3/2018	AUDPLN	1:30:00 PM	2.6592	2.6623			N/A
10/3/2018	AUDPLN	3:30:00 PM	2.6601	2.6618			N/A
10/3/2018	AUDSEK	9:30:00 AM	6.4334	6.437			N/A
10/3/2018	AUDSEK	11:30:00 AM	6.4235	6.4262			N/A
10/3/2018	AUDSEK	1:30:00 PM	6.427	6.4303			N/A
10/3/2018	AUDSEK	3:30:00 PM	6.4297	6.4325			N/A
10/3/2018	AUDSGD	9:30:00 AM	0.9851	0.9854			N/A
10/3/2018	AUDSGD	11:30:00 AM	0.9833	0.9836			N/A
10/3/2018	AUDSGD	1:30:00 PM	0.9838	0.9842			N/A
10/3/2018	AUDSGD	3:30:00 PM	0.9839	0.9841			N/A
10/3/2018	AUDUSD	9:30:00 AM	0.71695	0.71692	10	10	N/A

10/3/2018	AUDUSD	11:30:00 AM	0.71558	0.71569			N/A
10/3/2018	AUDUSD	1:30:00 PM	0.71517	0.71524			N/A
10/3/2018	AUDUSD	3:30:00 PM	0.71508	0.71514			N/A
10/3/2018	AUDZAR	9:30:00 AM	10.2846	10.2974			N/A
10/3/2018	AUDZAR	11:30:00 AM	10.2658	10.2769			N/A
10/3/2018	AUDZAR	1:30:00 PM	10.2914	10.3056			N/A
10/3/2018	AUDZAR	3:30:00 PM	10.2523	10.2597			N/A
10/3/2018	CADCHF	9:30:00 AM	0.76737	0.76808			N/A
10/3/2018	CADCHF	11:30:00 AM	0.76791	0.76864			N/A
10/3/2018	CADCHF	1:30:00 PM	0.76933	0.76997			N/A
10/3/2018	CADCHF	3:30:00 PM	0.76966	0.77018			N/A
10/3/2018	CADCZK	9:30:00 AM	17.374	17.389			N/A
10/3/2018	CADCZK	11:30:00 AM	17.372	17.389			N/A
10/3/2018	CADCZK	1:30:00 PM	17.397	17.412			N/A
10/3/2018	CADCZK	3:30:00 PM	17.382	17.396			N/A
10/3/2018	CADDKK	9:30:00 AM					N/A
10/3/2018	CADDKK	11:30:00 AM	5.022	5.026			N/A
10/3/2018	CADDKK	1:30:00 PM					N/A
10/3/2018	CADDKK	3:30:00 PM	5.036	5.039			N/A
10/3/2018	CADHKD	9:30:00 AM	6.1092	6.1121			N/A
10/3/2018	CADHKD	11:30:00 AM	6.1047	6.1086			N/A
10/3/2018	CADHKD	1:30:00 PM	6.1059	6.1097			N/A
10/3/2018	CADHKD	3:30:00 PM	6.1036	6.1073			N/A
10/3/2018	CADHUF	9:30:00 AM	217.38	217.52			N/A
10/3/2018	CADHUF	11:30:00 AM	217.29	217.46			N/A
10/3/2018	CADHUF	1:30:00 PM	217.91	218.07			N/A
10/3/2018	CADHUF	3:30:00 PM	217.71	217.74			N/A
10/3/2018	CADJPY	9:30:00 AM	88.671	88.733			N/A
10/3/2018	CADJPY	11:30:00 AM	88.629	88.699			N/A
10/3/2018	CADJPY	1:30:00 PM	88.659	88.719			N/A
10/3/2018	CADJPY	3:30:00 PM	88.664	88.709			N/A
10/3/2018	CADMXN	9:30:00 AM	14.627	14.6389			N/A
10/3/2018	CADMXN	11:30:00 AM	14.6105	14.6196			N/A
10/3/2018	CADMXN	1:30:00 PM	14.6454	14.6565			N/A
10/3/2018	CADMXN	3:30:00 PM	14.5848	14.5939			N/A
10/3/2018	CADNOK	9:30:00 AM	6.3561	6.3603			N/A
10/3/2018	CADNOK	11:30:00 AM	6.3614	6.3656			N/A
10/3/2018	CADNOK	1:30:00 PM	6.3754	6.3802			N/A
10/3/2018	CADNOK	3:30:00 PM	6.3806	6.3847			N/A
10/3/2018	CADPLN	9:30:00 AM	2.888	2.89			N/A
10/3/2018	CADPLN	11:30:00 AM	2.8913	2.8932			N/A
10/3/2018	CADPLN	1:30:00 PM	2.8985	2.9004			N/A
10/3/2018	CADPLN	3:30:00 PM	2.8987	2.8991			N/A
10/3/2018	CADSEK	9:30:00 AM	6.9968	6.9996			N/A
10/3/2018	CADSEK	11:30:00 AM	6.9961	6.9991			N/A
10/3/2018	CADSEK	1:30:00 PM	7.0041	7.008			N/A
10/3/2018	CADSEK	3:30:00 PM	7.0065	7.0094			N/A
10/3/2018	CADSGD	9:30:00 AM	1.0717	1.072			N/A
10/3/2018	CADSGD	11:30:00 AM	1.0713	1.0716			N/A
10/3/2018	CADSGD	1:30:00 PM	1.0723	1.0726			N/A

10/3/2018	CADSGD	3:30:00 PM	1.072	1.0723			N/A
10/3/2018	CADZAR	9:30:00 AM	11.1811	11.1952			N/A
10/3/2018	CADZAR	11:30:00 AM	11.1771	11.1926			N/A
10/3/2018	CADZAR	1:30:00 PM	11.2116	11.2264			N/A
10/3/2018	CADZAR	3:30:00 PM	11.1672	11.1756			N/A
10/3/2018	CHFCZK	9:30:00 AM	22.633	22.648			N/A
10/3/2018	CHFCZK	11:30:00 AM	22.617	22.632			N/A
10/3/2018	CHFCZK	1:30:00 PM	22.608	22.622			N/A
10/3/2018	CHFCZK	3:30:00 PM	22.579	22.589			N/A
10/3/2018	CHFDKK	9:30:00 AM	6.539	6.541			N/A
10/3/2018	CHFDKK	11:30:00 AM	6.537	6.54			N/A
10/3/2018	CHFDKK	1:30:00 PM	6.536	6.54			N/A
10/3/2018	CHFDKK	3:30:00 PM	6.54	6.543			N/A
10/3/2018	CHFHKD	9:30:00 AM	7.9579	7.9617			N/A
10/3/2018	CHFHKD	11:30:00 AM	7.9475	7.9511			N/A
10/3/2018	CHFHKD	1:30:00 PM	7.9349	7.9389			N/A
10/3/2018	CHFHKD	3:30:00 PM	7.9278	7.9308			N/A
10/3/2018	CHFHUF	9:30:00 AM	283.11	283.42			N/A
10/3/2018	CHFHUF	11:30:00 AM	282.78	283.15			N/A
10/3/2018	CHFHUF	1:30:00 PM	283.07	283.4			N/A
10/3/2018	CHFHUF	3:30:00 PM	282.7	282.85			N/A
10/3/2018	CHFJPY	9:30:00 AM	115.457	115.518			N/A
10/3/2018	CHFJPY	11:30:00 AM	115.321	115.389			N/A
10/3/2018	CHFJPY	1:30:00 PM	115.149	115.216			N/A
10/3/2018	CHFJPY	3:30:00 PM	115.097	115.155			N/A
10/3/2018	CHFMXN	9:30:00 AM	19.0512	19.0673			N/A
10/3/2018	CHFMXN	11:30:00 AM	19.0149	19.0279			N/A
10/3/2018	CHFMXN	1:30:00 PM	19.0277	19.0443			N/A
10/3/2018	CHFMXN	3:30:00 PM	18.942	18.9528			N/A
10/3/2018	CHFNOK	9:30:00 AM	8.2784	8.2856			N/A
10/3/2018	CHFNOK	11:30:00 AM	8.2803	8.287			N/A
10/3/2018	CHFNOK	1:30:00 PM	8.2838	8.2906			N/A
10/3/2018	CHFNOK	3:30:00 PM	8.2872	8.2934			N/A
10/3/2018	CHFPLN	9:30:00 AM	3.7623	3.7651			N/A
10/3/2018	CHFPLN	11:30:00 AM	3.7627	3.7656			N/A
10/3/2018	CHFPLN	1:30:00 PM	3.7661	3.769			N/A
10/3/2018	CHFPLN	3:30:00 PM	3.7656	3.766			N/A
10/3/2018	CHFSEK	9:30:00 AM	9.1156	9.1188			N/A
10/3/2018	CHFSEK	11:30:00 AM	9.1086	9.1108			N/A
10/3/2018	CHFSEK	1:30:00 PM	9.1028	9.1064			N/A
10/3/2018	CHFSEK	3:30:00 PM	9.1023	9.1036			N/A
10/3/2018	CHFSGD	9:30:00 AM	1.3955	1.3959			N/A
10/3/2018	CHFSGD	11:30:00 AM	1.3942	1.3946			N/A
10/3/2018	CHFSGD	1:30:00 PM	1.3934	1.3937			N/A
10/3/2018	CHFSGD	3:30:00 PM	1.3924	1.3928			N/A
10/3/2018	CHFZAR	9:30:00 AM	14.5681	14.579			N/A
10/3/2018	CHFZAR	11:30:00 AM	14.5538	14.5646			N/A
10/3/2018	CHFZAR	1:30:00 PM	14.5706	14.5823			N/A
10/3/2018	CHFZAR	3:30:00 PM	14.5076	14.514			N/A
10/3/2018	CZKJPY	9:30:00 AM	5.103	5.106			N/A

10/3/2018	CZKJPY	11:30:00 AM					N/A
10/3/2018	CZKJPY	1:30:00 PM					N/A
10/3/2018	CZKJPY	3:30:00 PM	5.099	5.102			N/A
10/3/2018	DKKJPY	9:30:00 AM	17.66	17.68			N/A
10/3/2018	DKKJPY	11:30:00 AM					N/A
10/3/2018	DKKJPY	1:30:00 PM	17.63	17.64			N/A
10/3/2018	DKKJPY	3:30:00 PM	17.61	17.62			N/A
10/3/2018	EURAUD	9:30:00 AM	1.61496	1.6153			N/A
10/3/2018	EURAUD	11:30:00 AM	1.61666	1.61693			N/A
10/3/2018	EURAUD	1:30:00 PM	1.61479	1.61516			N/A
10/3/2018	EURAUD	3:30:00 PM	1.61318	1.61335			N/A
10/3/2018	EURCAD	9:30:00 AM	1.48512	1.48586			N/A
10/3/2018	EURCAD	11:30:00 AM	1.48446	1.48522			N/A
10/3/2018	EURCAD	1:30:00 PM	1.48188	1.48261			N/A
10/3/2018	EURCAD	3:30:00 PM	1.48064	1.4811			N/A
10/3/2018	EURCHF	9:30:00 AM	1.14017	1.14019			N/A
10/3/2018	EURCHF	11:30:00 AM	1.14042	1.14043			N/A
10/3/2018	EURCHF	1:30:00 PM	1.14047	1.14054			N/A
10/3/2018	EURCHF	3:30:00 PM	1.13982	1.14017			N/A
10/3/2018	EURCZK	9:30:00 AM	25.797	25.83			N/A
10/3/2018	EURCZK	11:30:00 AM	25.78	25.818			N/A
10/3/2018	EURCZK	1:30:00 PM	25.772	25.81			N/A
10/3/2018	EURCZK	3:30:00 PM	25.723	25.759			N/A
10/3/2018	EURDKK	9:30:00 AM	7.4555	7.4559			N/A
10/3/2018	EURDKK	11:30:00 AM	7.4553	7.4565			N/A
10/3/2018	EURDKK	1:30:00 PM	7.4558	7.4569			N/A
10/3/2018	EURDKK	3:30:00 PM	7.4557	7.4568			N/A
10/3/2018	EURGBP	9:30:00 AM	0.89017	0.89027			N/A
10/3/2018	EURGBP	11:30:00 AM	0.88956	0.88969			N/A
10/3/2018	EURGBP	1:30:00 PM	0.88999	0.89001			N/A
10/3/2018	EURGBP	3:30:00 PM	0.88773	0.88774			N/A
10/3/2018	EURHKD	9:30:00 AM	9.072	9.0755			N/A
10/3/2018	EURHKD	11:30:00 AM	9.0622	9.066			N/A
10/3/2018	EURHKD	1:30:00 PM	9.0482	9.052			N/A
10/3/2018	EURHKD	3:30:00 PM	9.0373	9.0389			N/A
10/3/2018	EURHUF	9:30:00 AM	322.65	323.26			N/A
10/3/2018	EURHUF	11:30:00 AM	322.35	323.09			N/A
10/3/2018	EURHUF	1:30:00 PM	322.67	323.37			N/A
10/3/2018	EURHUF	3:30:00 PM	322.11	322.67			N/A
10/3/2018	EURJPY	9:30:00 AM	131.713	131.709			N/A
10/3/2018	EURJPY	11:30:00 AM	131.598	131.589			N/A
10/3/2018	EURJPY	1:30:00 PM	131.404	131.387			N/A
10/3/2018	EURJPY	3:30:00 PM	131.309	131.25			N/A
10/3/2018	EURMXN	9:30:00 AM	21.7229	21.7399			N/A
10/3/2018	EURMXN	11:30:00 AM	21.6866	21.7022			N/A
10/3/2018	EURMXN	1:30:00 PM	21.7002	21.718			N/A
10/3/2018	EURMXN	3:30:00 PM	21.5909	21.6094			N/A
10/3/2018	EURNOK	9:30:00 AM	9.4376	9.4486			N/A
10/3/2018	EURNOK	11:30:00 AM	9.4407	9.4525			N/A
10/3/2018	EURNOK	1:30:00 PM	9.4452	9.4572			N/A

10/3/2018	EURNOK	3:30:00 PM	9.4448	9.4567			N/A
10/3/2018	EURNZD	9:30:00 AM	1.76058	1.76135			N/A
10/3/2018	EURNZD	11:30:00 AM	1.76222	1.76295			N/A
10/3/2018	EURNZD	1:30:00 PM	1.76095	1.76161			N/A
10/3/2018	EURNZD	3:30:00 PM	1.76021	1.76072			N/A
10/3/2018	EURPLN	9:30:00 AM	4.2894	4.2914			N/A
10/3/2018	EURPLN	11:30:00 AM	4.2912	4.2943			N/A
10/3/2018	EURPLN	1:30:00 PM	4.2952	4.2985			N/A
10/3/2018	EURPLN	3:30:00 PM	4.2921	4.2933			N/A
10/3/2018	EURRUR	9:30:00 AM					N/A
10/3/2018	EURRUR	11:30:00 AM	75.42	75.823			N/A
10/3/2018	EURRUR	1:30:00 PM	75.534	75.96			N/A
10/3/2018	EURRUR	3:30:00 PM	75.458	75.878			N/A
10/3/2018	EURSEK	9:30:00 AM	10.3915	10.3968			N/A
10/3/2018	EURSEK	11:30:00 AM	10.3855	10.3899			N/A
10/3/2018	EURSEK	1:30:00 PM	10.3808	10.3848			N/A
10/3/2018	EURSEK	3:30:00 PM	10.375	10.3786			N/A
10/3/2018	EURSGD	9:30:00 AM	1.591	1.5917			N/A
10/3/2018	EURSGD	11:30:00 AM	1.5898	1.5905			N/A
10/3/2018	EURSGD	1:30:00 PM	1.5888	1.5897			N/A
10/3/2018	EURSGD	3:30:00 PM	1.5872	1.5877			N/A
10/3/2018	EURUSD	9:30:00 AM	1.15757	1.1575			N/A
10/3/2018	EURUSD	11:30:00 AM	1.15654	1.15648			N/A
10/3/2018	EURUSD	1:30:00 PM	1.15461	1.15458			N/A
10/3/2018	EURUSD	3:30:00 PM	1.15339	1.15305			N/A
10/3/2018	EURZAR	9:30:00 AM	16.6122	16.6271			N/A
10/3/2018	EURZAR	11:30:00 AM	16.5979	16.6128			N/A
10/3/2018	EURZAR	1:30:00 PM	16.6211	16.6406			N/A
10/3/2018	EURZAR	3:30:00 PM	16.5422	16.5472			N/A
10/3/2018	GBPAUD	9:30:00 AM	1.81386	1.8145			N/A
10/3/2018	GBPAUD	11:30:00 AM	1.81696	1.81765			N/A
10/3/2018	GBPAUD	1:30:00 PM	1.81409	1.81476			N/A
10/3/2018	GBPAUD	3:30:00 PM	1.81691	1.8174			N/A
10/3/2018	GBPCAD	9:30:00 AM	1.66792	1.66859			N/A
10/3/2018	GBPCAD	11:30:00 AM	1.66819	1.66905			N/A
10/3/2018	GBPCAD	1:30:00 PM	1.6646	1.66526			N/A
10/3/2018	GBPCAD	3:30:00 PM	1.66736	1.66798			N/A
10/3/2018	GBPCHF	9:30:00 AM	1.28066	1.28099			N/A
10/3/2018	GBPCHF	11:30:00 AM	1.28177	1.28213			N/A
10/3/2018	GBPCHF	1:30:00 PM	1.28116	1.28163			N/A
10/3/2018	GBPCHF	3:30:00 PM	1.28385	1.28429			N/A
10/3/2018	GBPCZK	9:30:00 AM	28.98	29.001			N/A
10/3/2018	GBPCZK	11:30:00 AM	28.986	29.008			N/A
10/3/2018	GBPCZK	1:30:00 PM	28.963	28.983			N/A
10/3/2018	GBPCZK	3:30:00 PM	28.983	29.003			N/A
10/3/2018	GBPDKK	9:30:00 AM	8.371	8.383			N/A
10/3/2018	GBPDKK	11:30:00 AM	8.377	8.389			N/A
10/3/2018	GBPDKK	1:30:00 PM	8.373	8.385			N/A
10/3/2018	GBPDKK	3:30:00 PM	8.395	8.406			N/A
10/3/2018	GBPHKD	9:30:00 AM	10.1896	10.1939			N/A

10/3/2018	GBPHKD	11:30:00 AM	10.185	10.1902			N/A
10/3/2018	GBPHKD	1:30:00 PM	10.1647	10.1702			N/A
10/3/2018	GBPHKD	3:30:00 PM	10.1785	10.1812			N/A
10/3/2018	GBPHUF	9:30:00 AM	362.47	362.92			N/A
10/3/2018	GBPHUF	11:30:00 AM	362.42	362.89			N/A
10/3/2018	GBPHUF	1:30:00 PM	362.63	363.08			N/A
10/3/2018	GBPHUF	3:30:00 PM	362.88	363.17			N/A
10/3/2018	GBPJPY	9:30:00 AM	147.966	147.993			N/A
10/3/2018	GBPJPY	11:30:00 AM	147.927	147.96			N/A
10/3/2018	GBPJPY	1:30:00 PM	147.64	147.679			N/A
10/3/2018	GBPJPY	3:30:00 PM	147.909	147.897			N/A
10/3/2018	GBPMXN	9:30:00 AM	24.3966	24.4122			N/A
10/3/2018	GBPMXN	11:30:00 AM	24.373	24.3846			N/A
10/3/2018	GBPMXN	1:30:00 PM	24.3791	24.3934			N/A
10/3/2018	GBPMXN	3:30:00 PM	24.3179	24.3284			N/A
10/3/2018	GBPNOK	9:30:00 AM	10.6027	10.6126			N/A
10/3/2018	GBPNOK	11:30:00 AM	10.6133	10.6244			N/A
10/3/2018	GBPNOK	1:30:00 PM	10.6141	10.6244			N/A
10/3/2018	GBPNOK	3:30:00 PM	10.6404	10.6503			N/A
10/3/2018	GBPNZD	9:30:00 AM	1.97783	1.97851			N/A
10/3/2018	GBPNZD	11:30:00 AM	1.98087	1.98162			N/A
10/3/2018	GBPNZD	1:30:00 PM	1.9786	1.97918			N/A
10/3/2018	GBPNZD	3:30:00 PM	1.98281	1.98342			N/A
10/3/2018	GBPPLN	9:30:00 AM	4.8193	4.8212			N/A
10/3/2018	GBPPLN	11:30:00 AM	4.8244	4.8264			N/A
10/3/2018	GBPPLN	1:30:00 PM	4.8273	4.8286			N/A
10/3/2018	GBPPLN	3:30:00 PM	4.8354	4.8347			N/A
10/3/2018	GBPSEK	9:30:00 AM	11.6715	11.681			N/A
10/3/2018	GBPSEK	11:30:00 AM	11.6721	11.681			N/A
10/3/2018	GBPSEK	1:30:00 PM	11.6612	11.6705			N/A
10/3/2018	GBPSEK	3:30:00 PM	11.6838	11.692			N/A
10/3/2018	GBPSGD	9:30:00 AM	1.7874	1.7879			N/A
10/3/2018	GBPSGD	11:30:00 AM	1.7871	1.7879			N/A
10/3/2018	GBPSGD	1:30:00 PM	1.7853	1.786			N/A
10/3/2018	GBPSGD	3:30:00 PM	1.7879	1.7884			N/A
10/3/2018	GBPUSD	9:30:00 AM	1.30045	1.30031			N/A
10/3/2018	GBPUSD	11:30:00 AM	1.30007	1.30006			N/A
10/3/2018	GBPUSD	1:30:00 PM	1.29731	1.2973			N/A
10/3/2018	GBPUSD	3:30:00 PM	1.29924	1.29898			N/A
10/3/2018	GBPZAR	9:30:00 AM	18.6569	18.6813			N/A
10/3/2018	GBPZAR	11:30:00 AM	18.6536	18.6772			N/A
10/3/2018	GBPZAR	1:30:00 PM	18.6714	18.7001			N/A
10/3/2018	GBPZAR	3:30:00 PM	18.6306	18.6418			N/A
10/3/2018	GOLD	9:30:00 AM	1204.23	1204.36			N/A
10/3/2018	GOLD	11:30:00 AM	1203.16	1203.26			N/A
10/3/2018	GOLD	1:30:00 PM	1202.61	1202.82			N/A
10/3/2018	GOLD	3:30:00 PM	1204.23	1203.71			N/A
10/3/2018	HKDJPY	9:30:00 AM					N/A
10/3/2018	HKDJPY	11:30:00 AM					N/A
10/3/2018	HKDJPY	1:30:00 PM					N/A

10/3/2018	HKDJPY	3:30:00 PM	14.53	14.54			N/A
10/3/2018	HUFJPY	9:30:00 AM	0.4082	0.4085			N/A
10/3/2018	HUFJPY	11:30:00 AM	0.4079	0.4082			N/A
10/3/2018	HUFJPY	1:30:00 PM	0.407	0.4073			N/A
10/3/2018	HUFJPY	3:30:00 PM	0.4074	0.4076			N/A
10/3/2018	MXNJPY	9:30:00 AM					N/A
10/3/2018	MXNJPY	11:30:00 AM					N/A
10/3/2018	MXNJPY	1:30:00 PM					N/A
10/3/2018	MXNJPY	3:30:00 PM					N/A
10/3/2018	NOKJPY	9:30:00 AM					N/A
10/3/2018	NOKJPY	11:30:00 AM	13.93	13.97			N/A
10/3/2018	NOKJPY	1:30:00 PM					N/A
10/3/2018	NOKJPY	3:30:00 PM	13.88	13.92			N/A
10/3/2018	NZDCAD	9:30:00 AM	0.84298	0.84372			N/A
10/3/2018	NZDCAD	11:30:00 AM	0.84186	0.84261			N/A
10/3/2018	NZDCAD	1:30:00 PM	0.84096	0.84172			N/A
10/3/2018	NZDCAD	3:30:00 PM	0.84063	0.84131			N/A
10/3/2018	NZDCHF	9:30:00 AM	0.64711	0.6478			N/A
10/3/2018	NZDCHF	11:30:00 AM	0.64669	0.6474			N/A
10/3/2018	NZDCHF	1:30:00 PM	0.64722	0.64786			N/A
10/3/2018	NZDCHF	3:30:00 PM	0.64719	0.64782			N/A
10/3/2018	NZDCZK	9:30:00 AM	14.649	14.661			N/A
10/3/2018	NZDCZK	11:30:00 AM	14.629	14.64			N/A
10/3/2018	NZDCZK	1:30:00 PM	14.633	14.645			N/A
10/3/2018	NZDCZK	3:30:00 PM	14.615	14.626			N/A
10/3/2018	NZDDKK	9:30:00 AM	4.232	4.236			N/A
10/3/2018	NZDDKK	11:30:00 AM	4.228	4.232			N/A
10/3/2018	NZDDKK	1:30:00 PM					N/A
10/3/2018	NZDDKK	3:30:00 PM					N/A
10/3/2018	NZDHKD	9:30:00 AM	5.1507	5.1526			N/A
10/3/2018	NZDHKD	11:30:00 AM	5.14	5.1429			N/A
10/3/2018	NZDHKD	1:30:00 PM	5.1358	5.1387			N/A
10/3/2018	NZDHKD	3:30:00 PM	5.1316	5.1345			N/A
10/3/2018	NZDHUF	9:30:00 AM	183.19	183.48			N/A
10/3/2018	NZDHUF	11:30:00 AM	182.88	183.16			N/A
10/3/2018	NZDHUF	1:30:00 PM	183.2	183.48			N/A
10/3/2018	NZDHUF	3:30:00 PM	182.95	183.13			N/A
10/3/2018	NZDJPY	9:30:00 AM	74.772	74.837			N/A
10/3/2018	NZDJPY	11:30:00 AM	74.634	74.707			N/A
10/3/2018	NZDJPY	1:30:00 PM	74.584	74.651			N/A
10/3/2018	NZDJPY	3:30:00 PM	74.553	74.607			N/A
10/3/2018	NZDMXN	9:30:00 AM	12.3325	12.3389			N/A
10/3/2018	NZDMXN	11:30:00 AM	12.3008	12.3045			N/A
10/3/2018	NZDMXN	1:30:00 PM	12.3183	12.3251			N/A
10/3/2018	NZDMXN	3:30:00 PM	12.2613	12.2662			N/A
10/3/2018	NZDNOK	9:30:00 AM	5.3584	5.3622			N/A
10/3/2018	NZDNOK	11:30:00 AM	5.3557	5.3594			N/A
10/3/2018	NZDNOK	1:30:00 PM	5.3621	5.366			N/A
10/3/2018	NZDNOK	3:30:00 PM	5.3639	5.3671			N/A
10/3/2018	NZDPLN	9:30:00 AM	2.4349	2.4362			N/A

10/3/2018	NZDPLN	11:30:00 AM	2.4347	2.4357			N/A
10/3/2018	NZDPLN	1:30:00 PM	2.4381	2.4394			N/A
10/3/2018	NZDPLN	3:30:00 PM	2.4366	2.4372			N/A
10/3/2018	NZDSEK	9:30:00 AM	5.8963	5.903			N/A
10/3/2018	NZDSEK	11:30:00 AM	5.8881	5.8944			N/A
10/3/2018	NZDSEK	1:30:00 PM	5.8893	5.8962			N/A
10/3/2018	NZDSEK	3:30:00 PM	5.8878	5.8947			N/A
10/3/2018	NZDSGD	9:30:00 AM	0.9035	0.9042			N/A
10/3/2018	NZDSGD	11:30:00 AM	0.9019	0.9027			N/A
10/3/2018	NZDSGD	1:30:00 PM	0.9021	0.9028			N/A
10/3/2018	NZDSGD	3:30:00 PM	0.9015	0.9022			N/A
10/3/2018	NZDUSD	9:30:00 AM	0.65706	0.65712			N/A
10/3/2018	NZDUSD	11:30:00 AM	0.65589	0.65602			N/A
10/3/2018	NZDUSD	1:30:00 PM	0.65528	0.6554			N/A
10/3/2018	NZDUSD	3:30:00 PM	0.6548	0.65488			N/A
10/3/2018	NZDZAR	9:30:00 AM	9.4318	9.4331			N/A
10/3/2018	NZDZAR	11:30:00 AM	9.4155	9.4165			N/A
10/3/2018	NZDZAR	1:30:00 PM	9.4348	9.437			N/A
10/3/2018	NZDZAR	3:30:00 PM	9.3934	9.3897			N/A
10/3/2018	SEKJPY	9:30:00 AM	12.67	12.69			N/A
10/3/2018	SEKJPY	11:30:00 AM					N/A
10/3/2018	SEKJPY	1:30:00 PM					N/A
10/3/2018	SEKJPY	3:30:00 PM	12.65	12.67			N/A
10/3/2018	SGDJPY	9:30:00 AM	82.75	82.78			N/A
10/3/2018	SGDJPY	11:30:00 AM	82.75	82.76			N/A
10/3/2018	SGDJPY	1:30:00 PM	82.67	82.7			N/A
10/3/2018	SGDJPY	3:30:00 PM	82.68	82.7			N/A
10/3/2018	SILVER	9:30:00 AM	14.53	14.91			N/A
10/3/2018	SILVER	11:30:00 AM					N/A
10/3/2018	SILVER	1:30:00 PM	14.54	14.92			N/A
10/3/2018	SILVER	3:30:00 PM	14.53	14.91			N/A
10/3/2018	USDCAD	9:30:00 AM	1.28302	1.28299			N/A
10/3/2018	USDCAD	11:30:00 AM	1.28346	1.28358			N/A
10/3/2018	USDCAD	1:30:00 PM	1.28339	1.28341			N/A
10/3/2018	USDCAD	3:30:00 PM	1.28377	1.28373			N/A
10/3/2018	USDCHF	9:30:00 AM	0.9849	0.985			N/A
10/3/2018	USDCHF	11:30:00 AM	0.98602	0.9861			N/A
10/3/2018	USDCHF	1:30:00 PM	0.98773	0.98778			N/A
10/3/2018	USDCHF	3:30:00 PM	0.98811	0.98865			N/A
10/3/2018	USDCZK	9:30:00 AM	22.289	22.31			N/A
10/3/2018	USDCZK	11:30:00 AM	22.296	22.317			N/A
10/3/2018	USDCZK	1:30:00 PM	22.324	22.345			N/A
10/3/2018	USDCZK	3:30:00 PM	22.314	22.332			N/A
10/3/2018	USDDKK	9:30:00 AM	6.4421	6.4462			N/A
10/3/2018	USDDKK	11:30:00 AM	6.4474	6.4519			N/A
10/3/2018	USDDKK	1:30:00 PM	6.4587	6.4631			N/A
10/3/2018	USDDKK	3:30:00 PM	6.4668	6.4698			N/A
10/3/2018	USDHKD	9:30:00 AM	7.8382	7.8387			N/A
10/3/2018	USDHKD	11:30:00 AM	7.8368	7.8373			N/A
10/3/2018	USDHKD	1:30:00 PM					N/A

10/3/2018	USDHKD	3:30:00 PM	7.8367	7.8371			N/A
10/3/2018	USDHUF	9:30:00 AM	278.83	279.22			N/A
10/3/2018	USDHUF	11:30:00 AM	278.81	279.24			N/A
10/3/2018	USDHUF	1:30:00 PM	279.57	280			N/A
10/3/2018	USDHUF	3:30:00 PM	279.41	279.65			N/A
10/3/2018	USDJPY	9:30:00 AM	113.813	113.816			N/A
10/3/2018	USDJPY	11:30:00 AM	113.809	113.817			N/A
10/3/2018	USDJPY	1:30:00 PM	113.833	113.845			N/A
10/3/2018	USDJPY	3:30:00 PM	113.867	113.86			N/A
10/3/2018	USDMXN	9:30:00 AM	18.771	18.776			N/A
10/3/2018	USDMXN	11:30:00 AM	18.755	18.759			N/A
10/3/2018	USDMXN	1:30:00 PM	18.798	18.806			N/A
10/3/2018	USDMXN	3:30:00 PM	18.728	18.73			N/A
10/3/2018	USDNOK	9:30:00 AM	8.1539	8.1621			N/A
10/3/2018	USDNOK	11:30:00 AM	8.1655	8.1728			N/A
10/3/2018	USDNOK	1:30:00 PM	8.1826	8.1906			N/A
10/3/2018	USDNOK	3:30:00 PM	8.1919	8.1991			N/A
10/3/2018	USDPLN	9:30:00 AM	3.7064	3.7074			N/A
10/3/2018	USDPLN	11:30:00 AM	3.7111	3.7121			N/A
10/3/2018	USDPLN	1:30:00 PM	3.7208	3.7219			N/A
10/3/2018	USDPLN	3:30:00 PM	3.7226	3.7216			N/A
10/3/2018	USDRUR	9:30:00 AM					N/A
10/3/2018	USDRUR	11:30:00 AM	65.274	65.645			N/A
10/3/2018	USDRUR	1:30:00 PM	65.486	65.873			N/A
10/3/2018	USDRUR	3:30:00 PM	65.507	65.882			N/A
10/3/2018	USDSEK	9:30:00 AM	8.9761	8.9797			N/A
10/3/2018	USDSEK	11:30:00 AM	8.9784	8.9822			N/A
10/3/2018	USDSEK	1:30:00 PM	8.9885	8.9934			N/A
10/3/2018	USDSEK	3:30:00 PM	8.9945	8.997			N/A
10/3/2018	USDSGD	9:30:00 AM	1.3745	1.3748			N/A
10/3/2018	USDSGD	11:30:00 AM	1.3746	1.375			N/A
10/3/2018	USDSGD	1:30:00 PM	1.3761	1.3765			N/A
10/3/2018	USDSGD	3:30:00 PM	1.3763	1.3766			N/A
10/3/2018	USDZAR	9:30:00 AM	14.3513	14.3634			N/A
10/3/2018	USDZAR	11:30:00 AM	14.3503	14.3631			N/A
10/3/2018	USDZAR	1:30:00 PM	14.3941	14.4118			N/A
10/3/2018	USDZAR	3:30:00 PM	14.3422	14.3487			N/A
10/3/2018	XAUUSD	9:30:00 AM	1204.23	1204.36			N/A
10/3/2018	XAUUSD	11:30:00 AM	1203.16	1203.26			N/A
10/3/2018	XAUUSD	1:30:00 PM	1202.61	1202.81			N/A
10/3/2018	XAUUSD	3:30:00 PM	1204.23	1203.71			N/A
10/3/2018	ZARJPY	9:30:00 AM					N/A
10/3/2018	ZARJPY	11:30:00 AM					N/A
10/3/2018	ZARJPY	1:30:00 PM					N/A
10/3/2018	ZARJPY	3:30:00 PM	7.89	7.93			N/A
10/4/2018	#AA	9:30:00 AM					N/A
10/4/2018	#AA	11:30:00 AM					N/A
10/4/2018	#AA	1:30:00 PM					N/A
10/4/2018	#AA	3:30:00 PM					N/A
10/4/2018	#AABA	9:30:00 AM					N/A

10/4/2018	#AABA	11:30:00 AM					N/A
10/4/2018	#AABA	1:30:00 PM					N/A
10/4/2018	#AABA	3:30:00 PM					N/A
10/4/2018	#AAL	9:30:00 AM					N/A
10/4/2018	#AAL	11:30:00 AM					N/A
10/4/2018	#AAL	1:30:00 PM					N/A
10/4/2018	#AAL	3:30:00 PM					N/A
10/4/2018	#AAPL	9:30:00 AM					N/A
10/4/2018	#AAPL	11:30:00 AM					N/A
10/4/2018	#AAPL	1:30:00 PM					N/A
10/4/2018	#AAPL	3:30:00 PM					N/A
10/4/2018	#ADBE	9:30:00 AM					N/A
10/4/2018	#ADBE	11:30:00 AM					N/A
10/4/2018	#ADBE	1:30:00 PM					N/A
10/4/2018	#ADBE	3:30:00 PM					N/A
10/4/2018	#AIG	9:30:00 AM					N/A
10/4/2018	#AIG	11:30:00 AM					N/A
10/4/2018	#AIG	1:30:00 PM					N/A
10/4/2018	#AIG	3:30:00 PM					N/A
10/4/2018	#AMD	9:30:00 AM					N/A
10/4/2018	#AMD	11:30:00 AM					N/A
10/4/2018	#AMD	1:30:00 PM					N/A
10/4/2018	#AMD	3:30:00 PM					N/A
10/4/2018	#AMZN	9:30:00 AM					N/A
10/4/2018	#AMZN	11:30:00 AM					N/A
10/4/2018	#AMZN	1:30:00 PM					N/A
10/4/2018	#AMZN	3:30:00 PM					N/A
10/4/2018	#AXP	9:30:00 AM					N/A
10/4/2018	#AXP	11:30:00 AM					N/A
10/4/2018	#AXP	1:30:00 PM					N/A
10/4/2018	#AXP	3:30:00 PM					N/A
10/4/2018	#BA	9:30:00 AM					N/A
10/4/2018	#BA	11:30:00 AM					N/A
10/4/2018	#BA	1:30:00 PM					N/A
10/4/2018	#BA	3:30:00 PM					N/A
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10/4/2018	#WFC	9:30:00 AM					N/A
10/4/2018	#WFC	11:30:00 AM					N/A
10/4/2018	#WFC	1:30:00 PM					N/A
10/4/2018	#WFC	3:30:00 PM					N/A
10/4/2018	#WMT	9:30:00 AM					N/A
10/4/2018	#WMT	11:30:00 AM					N/A
10/4/2018	#WMT	1:30:00 PM					N/A
10/4/2018	#WMT	3:30:00 PM					N/A
10/4/2018	#XOM	9:30:00 AM					N/A

10/4/2018	#XOM	11:30:00 AM					N/A
10/4/2018	#XOM	1:30:00 PM					N/A
10/4/2018	#XOM	3:30:00 PM					N/A
10/4/2018	#YHOO	9:30:00 AM					N/A
10/4/2018	#YHOO	11:30:00 AM					N/A
10/4/2018	#YHOO	1:30:00 PM					N/A
10/4/2018	#YHOO	3:30:00 PM					N/A
10/4/2018	#ZNGA	9:30:00 AM					N/A
10/4/2018	#ZNGA	11:30:00 AM					N/A
10/4/2018	#ZNGA	1:30:00 PM					N/A
10/4/2018	#ZNGA	3:30:00 PM					N/A
10/4/2018	AUDCAD	9:30:00 AM	0.91129	0.91189			N/A
10/4/2018	AUDCAD	11:30:00 AM	0.91156	0.91197			N/A
10/4/2018	AUDCAD	1:30:00 PM	0.91133	0.91194			N/A
10/4/2018	AUDCAD	3:30:00 PM	0.91238	0.91252			N/A
10/4/2018	AUDCHF	9:30:00 AM	0.70147	0.70198			N/A
10/4/2018	AUDCHF	11:30:00 AM	0.7018	0.7024			N/A
10/4/2018	AUDCHF	1:30:00 PM	0.70264	0.70323			N/A
10/4/2018	AUDCHF	3:30:00 PM	0.70298	0.70341			N/A
10/4/2018	AUDCZK	9:30:00 AM	15.872	15.885			N/A
10/4/2018	AUDCZK	11:30:00 AM	15.875	15.887			N/A
10/4/2018	AUDCZK	1:30:00 PM	15.875	15.89			N/A
10/4/2018	AUDCZK	3:30:00 PM	15.853	15.865			N/A
10/4/2018	AUDDKK	9:30:00 AM	4.5967	4.6002			N/A
10/4/2018	AUDDKK	11:30:00 AM	4.5906	4.5942			N/A
10/4/2018	AUDDKK	1:30:00 PM	4.5921	4.5963			N/A
10/4/2018	AUDDKK	3:30:00 PM	4.5848	4.589			N/A
10/4/2018	AUDHKD	9:30:00 AM	5.5434	5.5469			N/A
10/4/2018	AUDHKD	11:30:00 AM	5.5445	5.5467			N/A
10/4/2018	AUDHKD	1:30:00 PM	5.5494	5.5532			N/A
10/4/2018	AUDHKD	3:30:00 PM	5.5508	5.5536			N/A
10/4/2018	AUDHUF	9:30:00 AM	199.38	199.58			N/A
10/4/2018	AUDHUF	11:30:00 AM	199.46	199.64			N/A
10/4/2018	AUDHUF	1:30:00 PM	199.55	199.77			N/A
10/4/2018	AUDHUF	3:30:00 PM	199.3	199.47			N/A
10/4/2018	AUDJPY	9:30:00 AM	80.847	80.902			N/A
10/4/2018	AUDJPY	11:30:00 AM	80.897	80.939			N/A
10/4/2018	AUDJPY	1:30:00 PM	80.969	81.024			N/A
10/4/2018	AUDJPY	3:30:00 PM	80.884	80.891			N/A
10/4/2018	AUDMXN	9:30:00 AM	13.4768	13.4795			N/A
10/4/2018	AUDMXN	11:30:00 AM	13.4997	13.5073			N/A
10/4/2018	AUDMXN	1:30:00 PM	13.465	13.4726			N/A
10/4/2018	AUDMXN	3:30:00 PM	13.4553	13.4603			N/A
10/4/2018	AUDNOK	9:30:00 AM	5.825	5.8287			N/A
10/4/2018	AUDNOK	11:30:00 AM	5.8228	5.8271			N/A
10/4/2018	AUDNOK	1:30:00 PM	5.8204	5.8251			N/A
10/4/2018	AUDNOK	3:30:00 PM	5.8233	5.8289			N/A
10/4/2018	AUDNZD	9:30:00 AM	1.08929	1.09007			N/A
10/4/2018	AUDNZD	11:30:00 AM	1.08989	1.09056			N/A
10/4/2018	AUDNZD	1:30:00 PM	1.09108	1.09193			N/A

10/4/2018	AUDNZD	3:30:00 PM	1.0898	1.0904			N/A
10/4/2018	AUDPLN	9:30:00 AM	2.6546	2.6565			N/A
10/4/2018	AUDPLN	11:30:00 AM	2.6509	2.6536			N/A
10/4/2018	AUDPLN	1:30:00 PM	2.6504	2.6534			N/A
10/4/2018	AUDPLN	3:30:00 PM	2.6465	2.6491			N/A
10/4/2018	AUDSEK	9:30:00 AM	6.4012	6.403			N/A
10/4/2018	AUDSEK	11:30:00 AM	6.398	6.4008			N/A
10/4/2018	AUDSEK	1:30:00 PM	6.4004	6.4029			N/A
10/4/2018	AUDSEK	3:30:00 PM	6.399	6.4012			N/A
10/4/2018	AUDSGD	9:30:00 AM	0.9777	0.9779			N/A
10/4/2018	AUDSGD	11:30:00 AM	0.9772	0.9773			N/A
10/4/2018	AUDSGD	1:30:00 PM	0.9776	0.9779			N/A
10/4/2018	AUDSGD	3:30:00 PM	0.9776	0.9776			N/A
10/4/2018	AUDUSD	9:30:00 AM	0.70808	0.70812			N/A
10/4/2018	AUDUSD	11:30:00 AM	0.70824	0.70815			N/A
10/4/2018	AUDUSD	1:30:00 PM	0.70889	0.70893			N/A
10/4/2018	AUDUSD	3:30:00 PM	0.70906	0.70899			N/A
10/4/2018	AUDZAR	9:30:00 AM	10.379	10.3827			N/A
10/4/2018	AUDZAR	11:30:00 AM	10.4331	10.442			N/A
10/4/2018	AUDZAR	1:30:00 PM	10.3873	10.402			N/A
10/4/2018	AUDZAR	3:30:00 PM	10.3847	10.3887			N/A
10/4/2018	CADCHF	9:30:00 AM	0.7695	0.76996			N/A
10/4/2018	CADCHF	11:30:00 AM	0.76971	0.77035			N/A
10/4/2018	CADCHF	1:30:00 PM	0.77067	0.77142			N/A
10/4/2018	CADCHF	3:30:00 PM	0.77036	0.77072			N/A
10/4/2018	CADCZK	9:30:00 AM	17.415	17.428			N/A
10/4/2018	CADCZK	11:30:00 AM	17.413	17.429			N/A
10/4/2018	CADCZK	1:30:00 PM	17.418	17.433			N/A
10/4/2018	CADCZK	3:30:00 PM	17.381	17.385			N/A
10/4/2018	CADDKK	9:30:00 AM	5.043	5.047			N/A
10/4/2018	CADDKK	11:30:00 AM					N/A
10/4/2018	CADDKK	1:30:00 PM	5.039	5.043			N/A
10/4/2018	CADDKK	3:30:00 PM	5.028	5.029			N/A
10/4/2018	CADHKD	9:30:00 AM	6.0824	6.0863			N/A
10/4/2018	CADHKD	11:30:00 AM	6.0821	6.0861			N/A
10/4/2018	CADHKD	1:30:00 PM	6.0888	6.0927			N/A
10/4/2018	CADHKD	3:30:00 PM	6.0848	6.0866			N/A
10/4/2018	CADHUF	9:30:00 AM	218.8	218.94			N/A
10/4/2018	CADHUF	11:30:00 AM	218.82	219			N/A
10/4/2018	CADHUF	1:30:00 PM	218.98	219.14			N/A
10/4/2018	CADHUF	3:30:00 PM	218.57	218.54			N/A
10/4/2018	CADJPY	9:30:00 AM	88.703	88.749			N/A
10/4/2018	CADJPY	11:30:00 AM	88.725	88.794			N/A
10/4/2018	CADJPY	1:30:00 PM	88.821	88.885			N/A
10/4/2018	CADJPY	3:30:00 PM	88.638	88.677			N/A
10/4/2018	CADMXN	9:30:00 AM	14.7875	14.7937			N/A
10/4/2018	CADMXN	11:30:00 AM	14.8104	14.8193			N/A
10/4/2018	CADMXN	1:30:00 PM	14.7737	14.7839			N/A
10/4/2018	CADMXN	3:30:00 PM	14.7524	14.755			N/A
10/4/2018	CADNOK	9:30:00 AM	6.3915	6.3942			N/A

10/4/2018	CADNOK	11:30:00 AM	6.3884	6.3928			N/A
10/4/2018	CADNOK	1:30:00 PM	6.3863	6.3906			N/A
10/4/2018	CADNOK	3:30:00 PM	6.3859	6.387			N/A
10/4/2018	CADPLN	9:30:00 AM	2.9115	2.9124			N/A
10/4/2018	CADPLN	11:30:00 AM	2.908	2.9099			N/A
10/4/2018	CADPLN	1:30:00 PM	2.9073	2.9092			N/A
10/4/2018	CADPLN	3:30:00 PM	2.9011	2.901			N/A
10/4/2018	CADSEK	9:30:00 AM	7.0213	7.0234			N/A
10/4/2018	CADSEK	11:30:00 AM	7.0171	7.0207			N/A
10/4/2018	CADSEK	1:30:00 PM	7.0201	7.0238			N/A
10/4/2018	CADSEK	3:30:00 PM	7.0148	7.0139			N/A
10/4/2018	CADSGD	9:30:00 AM	1.0724	1.0726			N/A
10/4/2018	CADSGD	11:30:00 AM	1.0717	1.072			N/A
10/4/2018	CADSGD	1:30:00 PM					N/A
10/4/2018	CADSGD	3:30:00 PM	1.0711	1.0713			N/A
10/4/2018	CADZAR	9:30:00 AM	11.3793	11.386			N/A
10/4/2018	CADZAR	11:30:00 AM	11.4368	11.4479			N/A
10/4/2018	CADZAR	1:30:00 PM	11.3918	11.407			N/A
10/4/2018	CADZAR	3:30:00 PM	11.3794	11.3848			N/A
10/4/2018	CHFCZK	9:30:00 AM	22.633	22.638			N/A
10/4/2018	CHFCZK	11:30:00 AM	22.62	22.634			N/A
10/4/2018	CHFCZK	1:30:00 PM	22.596	22.611			N/A
10/4/2018	CHFCZK	3:30:00 PM	22.557	22.562			N/A
10/4/2018	CHFDKK	9:30:00 AM	6.554	6.555			N/A
10/4/2018	CHFDKK	11:30:00 AM	6.54	6.544			N/A
10/4/2018	CHFDKK	1:30:00 PM					N/A
10/4/2018	CHFDKK	3:30:00 PM	6.523	6.524			N/A
10/4/2018	CHFHKD	9:30:00 AM	7.9044	7.9057			N/A
10/4/2018	CHFHKD	11:30:00 AM	7.9005	7.9025			N/A
10/4/2018	CHFHKD	1:30:00 PM	7.8997	7.9028			N/A
10/4/2018	CHFHKD	3:30:00 PM	7.8986	7.8997			N/A
10/4/2018	CHFHUF	9:30:00 AM	284.24	284.48			N/A
10/4/2018	CHFHUF	11:30:00 AM	284.15	284.5			N/A
10/4/2018	CHFHUF	1:30:00 PM	283.95	284.33			N/A
10/4/2018	CHFHUF	3:30:00 PM	283.53	283.72			N/A
10/4/2018	CHFJPY	9:30:00 AM	115.196	115.227			N/A
10/4/2018	CHFJPY	11:30:00 AM	115.185	115.233			N/A
10/4/2018	CHFJPY	1:30:00 PM	115.151	115.222			N/A
10/4/2018	CHFJPY	3:30:00 PM	114.988	115.003			N/A
10/4/2018	CHFMXN	9:30:00 AM	19.2149	19.2166			N/A
10/4/2018	CHFMXN	11:30:00 AM	19.233	19.2454			N/A
10/4/2018	CHFMXN	1:30:00 PM	19.1593	19.1754			N/A
10/4/2018	CHFMXN	3:30:00 PM	19.1428	19.1486			N/A
10/4/2018	CHFNOK	9:30:00 AM	8.3057	8.3087			N/A
10/4/2018	CHFNOK	11:30:00 AM	8.2966	8.3039			N/A
10/4/2018	CHFNOK	1:30:00 PM	8.2833	8.2914			N/A
10/4/2018	CHFNOK	3:30:00 PM	8.2864	8.2904			N/A
10/4/2018	CHFPLN	9:30:00 AM	3.7847	3.7844			N/A
10/4/2018	CHFPLN	11:30:00 AM	3.7764	3.7794			N/A
10/4/2018	CHFPLN	1:30:00 PM	3.7718	3.7742			N/A

10/4/2018	CHFPLN	3:30:00 PM	3.7649	3.7666			N/A
10/4/2018	CHFSEK	9:30:00 AM	9.127	9.1253			N/A
10/4/2018	CHFSEK	11:30:00 AM	9.115	9.1185			N/A
10/4/2018	CHFSEK	1:30:00 PM	9.1076	9.1114			N/A
10/4/2018	CHFSEK	3:30:00 PM	9.1041	9.1027			N/A
10/4/2018	CHFSGD	9:30:00 AM	1.3936	1.3936			N/A
10/4/2018	CHFSGD	11:30:00 AM	1.3918	1.3923			N/A
10/4/2018	CHFSGD	1:30:00 PM	1.3909	1.3914			N/A
10/4/2018	CHFSGD	3:30:00 PM	1.3905	1.3906			N/A
10/4/2018	CHFZAR	9:30:00 AM	14.7914	14.7882			N/A
10/4/2018	CHFZAR	11:30:00 AM	14.8581	14.8656			N/A
10/4/2018	CHFZAR	1:30:00 PM	14.7804	14.7932			N/A
10/4/2018	CHFZAR	3:30:00 PM	14.7701	14.7718			N/A
10/4/2018	CZKJPY	9:30:00 AM	5.092	5.095			N/A
10/4/2018	CZKJPY	11:30:00 AM					N/A
10/4/2018	CZKJPY	1:30:00 PM	5.098	5.101			N/A
10/4/2018	CZKJPY	3:30:00 PM	5.101	5.101			N/A
10/4/2018	DKKJPY	9:30:00 AM	17.59	17.6			N/A
10/4/2018	DKKJPY	11:30:00 AM					N/A
10/4/2018	DKKJPY	1:30:00 PM					N/A
10/4/2018	DKKJPY	3:30:00 PM	17.63	17.65			N/A
10/4/2018	EURAUD	9:30:00 AM	1.62149	1.62146			N/A
10/4/2018	EURAUD	11:30:00 AM	1.62376	1.62379			N/A
10/4/2018	EURAUD	1:30:00 PM	1.62297	1.62328			N/A
10/4/2018	EURAUD	3:30:00 PM	1.62573	1.62587			N/A
10/4/2018	EURCAD	9:30:00 AM	1.4783	1.47872			N/A
10/4/2018	EURCAD	11:30:00 AM	1.48039	1.48122			N/A
10/4/2018	EURCAD	1:30:00 PM	1.47961	1.48046			N/A
10/4/2018	EURCAD	3:30:00 PM	1.48399	1.48375			N/A
10/4/2018	EURCHF	9:30:00 AM	1.1379	1.13743			N/A
10/4/2018	EURCHF	11:30:00 AM	1.13992	1.13996			N/A
10/4/2018	EURCHF	1:30:00 PM	1.14086	1.14088			N/A
10/4/2018	EURCHF	3:30:00 PM	1.14314	1.14328			N/A
10/4/2018	EURCZK	9:30:00 AM	25.728	25.767			N/A
10/4/2018	EURCZK	11:30:00 AM	25.776	25.815			N/A
10/4/2018	EURCZK	1:30:00 PM	25.768	25.802			N/A
10/4/2018	EURCZK	3:30:00 PM	25.769	25.806			N/A
10/4/2018	EURDKK	9:30:00 AM	7.4551	7.4563			N/A
10/4/2018	EURDKK	11:30:00 AM	7.4559	7.4571			N/A
10/4/2018	EURDKK	1:30:00 PM	7.4562	7.4573			N/A
10/4/2018	EURDKK	3:30:00 PM	7.4565	7.4576			N/A
10/4/2018	EURGBP	9:30:00 AM	0.88555	0.88557			N/A
10/4/2018	EURGBP	11:30:00 AM	0.88656	0.88666			N/A
10/4/2018	EURGBP	1:30:00 PM	0.88573	0.88574			N/A
10/4/2018	EURGBP	3:30:00 PM	0.88546	0.8855			N/A
10/4/2018	EURHKD	9:30:00 AM	8.9926	8.9934			N/A
10/4/2018	EURHKD	11:30:00 AM	9.0045	9.0087			N/A
10/4/2018	EURHKD	1:30:00 PM	9.0098	9.014			N/A
10/4/2018	EURHKD	3:30:00 PM	9.0278	9.0291			N/A
10/4/2018	EURHUF	9:30:00 AM	323.22	323.83			N/A

10/4/2018	EURHUF	11:30:00 AM	323.76	324.46			N/A
10/4/2018	EURHUF	1:30:00 PM	323.81	324.48			N/A
10/4/2018	EURHUF	3:30:00 PM	323.98	324.62			N/A
10/4/2018	EURJPY	9:30:00 AM	131.134	131.092			N/A
10/4/2018	EURJPY	11:30:00 AM	131.378	131.369			N/A
10/4/2018	EURJPY	1:30:00 PM	131.452	131.444			N/A
10/4/2018	EURJPY	3:30:00 PM	131.542	131.448			N/A
10/4/2018	EURMXN	9:30:00 AM	21.8565	21.8679			N/A
10/4/2018	EURMXN	11:30:00 AM	21.9265	21.9395			N/A
10/4/2018	EURMXN	1:30:00 PM	21.8611	21.8767			N/A
10/4/2018	EURMXN	3:30:00 PM	21.8794	21.8923			N/A
10/4/2018	EURNOK	9:30:00 AM	9.4452	9.4565			N/A
10/4/2018	EURNOK	11:30:00 AM	9.456	9.4678			N/A
10/4/2018	EURNOK	1:30:00 PM	9.4485	9.4609			N/A
10/4/2018	EURNOK	3:30:00 PM	9.4716	9.4811			N/A
10/4/2018	EURNZD	9:30:00 AM	1.76701	1.76723			N/A
10/4/2018	EURNZD	11:30:00 AM	1.77014	1.77087			N/A
10/4/2018	EURNZD	1:30:00 PM	1.77155	1.77232			N/A
10/4/2018	EURNZD	3:30:00 PM	1.77251	1.77284			N/A
10/4/2018	EURPLN	9:30:00 AM	4.3045	4.3064			N/A
10/4/2018	EURPLN	11:30:00 AM	4.3052	4.3079			N/A
10/4/2018	EURPLN	1:30:00 PM	4.303	4.3057			N/A
10/4/2018	EURPLN	3:30:00 PM	4.3033	4.3061			N/A
10/4/2018	EURRUR	9:30:00 AM					N/A
10/4/2018	EURRUR	11:30:00 AM	75.936	76.355			N/A
10/4/2018	EURRUR	1:30:00 PM	75.997	76.426			N/A
10/4/2018	EURRUR	3:30:00 PM	76.395	76.771			N/A
10/4/2018	EURSEK	9:30:00 AM	10.3792	10.3834			N/A
10/4/2018	EURSEK	11:30:00 AM	10.3893	10.3938			N/A
10/4/2018	EURSEK	1:30:00 PM	10.3893	10.394			N/A
10/4/2018	EURSEK	3:30:00 PM	10.4042	10.4073			N/A
10/4/2018	EURSGD	9:30:00 AM	1.5851	1.5857			N/A
10/4/2018	EURSGD	11:30:00 AM	1.5865	1.5871			N/A
10/4/2018	EURSGD	1:30:00 PM	1.5867	1.5875			N/A
10/4/2018	EURSGD	3:30:00 PM	1.5895	1.5897			N/A
10/4/2018	EURUSD	9:30:00 AM	1.14792	1.14758			N/A
10/4/2018	EURUSD	11:30:00 AM	1.14955	1.14954			N/A
10/4/2018	EURUSD	1:30:00 PM	1.1502	1.1502			N/A
10/4/2018	EURUSD	3:30:00 PM	1.15253	1.15215			N/A
10/4/2018	EURZAR	9:30:00 AM	16.8293	16.8328			N/A
10/4/2018	EURZAR	11:30:00 AM	16.942	16.95			N/A
10/4/2018	EURZAR	1:30:00 PM	16.8628	16.8809			N/A
10/4/2018	EURZAR	3:30:00 PM	16.8864	16.8925			N/A
10/4/2018	GBPAUD	9:30:00 AM	1.83067	1.83107			N/A
10/4/2018	GBPAUD	11:30:00 AM	1.83118	1.83139			N/A
10/4/2018	GBPAUD	1:30:00 PM	1.8321	1.83275			N/A
10/4/2018	GBPAUD	3:30:00 PM	1.83569	1.83619			N/A
10/4/2018	GBPCAD	9:30:00 AM	1.66881	1.66931			N/A
10/4/2018	GBPCAD	11:30:00 AM	1.66944	1.67014			N/A
10/4/2018	GBPCAD	1:30:00 PM	1.67025	1.67088			N/A

10/4/2018	GBPCAD	3:30:00 PM	1.67535	1.67515			N/A
10/4/2018	GBPCHF	9:30:00 AM	1.28473	1.28467			N/A
10/4/2018	GBPCHF	11:30:00 AM	1.28553	1.28585			N/A
10/4/2018	GBPCHF	1:30:00 PM	1.28796	1.28826			N/A
10/4/2018	GBPCHF	3:30:00 PM	1.29089	1.29117			N/A
10/4/2018	GBPCZK	9:30:00 AM	29.066	29.084			N/A
10/4/2018	GBPCZK	11:30:00 AM	29.074	29.096			N/A
10/4/2018	GBPCZK	1:30:00 PM	29.099	29.117			N/A
10/4/2018	GBPCZK	3:30:00 PM	29.11	29.129			N/A
10/4/2018	GBPDKK	9:30:00 AM	8.416	8.426			N/A
10/4/2018	GBPDKK	11:30:00 AM	8.406	8.418			N/A
10/4/2018	GBPDKK	1:30:00 PM	8.415	8.426			N/A
10/4/2018	GBPDKK	3:30:00 PM	8.417	8.429			N/A
10/4/2018	GBPHKD	9:30:00 AM	10.1528	10.1548			N/A
10/4/2018	GBPHKD	11:30:00 AM	10.1554	10.1596			N/A
10/4/2018	GBPHKD	1:30:00 PM	10.1713	10.1763			N/A
10/4/2018	GBPHKD	3:30:00 PM	10.1937	10.196			N/A
10/4/2018	GBPHUF	9:30:00 AM	365.04	365.46			N/A
10/4/2018	GBPHUF	11:30:00 AM	365.24	365.72			N/A
10/4/2018	GBPHUF	1:30:00 PM	365.66	366.11			N/A
10/4/2018	GBPHUF	3:30:00 PM	365.91	366.25			N/A
10/4/2018	GBPJPY	9:30:00 AM	148.086	148.072			N/A
10/4/2018	GBPJPY	11:30:00 AM	148.192	148.211			N/A
10/4/2018	GBPJPY	1:30:00 PM	148.414	148.444			N/A
10/4/2018	GBPJPY	3:30:00 PM	148.554	148.48			N/A
10/4/2018	GBPMXN	9:30:00 AM	24.6805	24.6828			N/A
10/4/2018	GBPMXN	11:30:00 AM	24.7262	24.7339			N/A
10/4/2018	GBPMXN	1:30:00 PM	24.6762	24.6889			N/A
10/4/2018	GBPMXN	3:30:00 PM	24.7076	24.7141			N/A
10/4/2018	GBPNOK	9:30:00 AM	10.6678	10.6771			N/A
10/4/2018	GBPNOK	11:30:00 AM	10.6667	10.6774			N/A
10/4/2018	GBPNOK	1:30:00 PM	10.6699	10.6796			N/A
10/4/2018	GBPNOK	3:30:00 PM	10.6963	10.7059			N/A
10/4/2018	GBPNZD	9:30:00 AM	1.99537	1.99554			N/A
10/4/2018	GBPNZD	11:30:00 AM	1.99665	1.99725			N/A
10/4/2018	GBPNZD	1:30:00 PM	2.00026	2.00092			N/A
10/4/2018	GBPNZD	3:30:00 PM	2.00184	2.00191			N/A
10/4/2018	GBPPLN	9:30:00 AM	4.862	4.8621			N/A
10/4/2018	GBPPLN	11:30:00 AM	4.8564	4.858			N/A
10/4/2018	GBPPLN	1:30:00 PM	4.8591	4.8601			N/A
10/4/2018	GBPPLN	3:30:00 PM	4.8606	4.8622			N/A
10/4/2018	GBPSEK	9:30:00 AM	11.7192	11.727			N/A
10/4/2018	GBPSEK	11:30:00 AM	11.7161	11.7246			N/A
10/4/2018	GBPSEK	1:30:00 PM	11.7294	11.7362			N/A
10/4/2018	GBPSEK	3:30:00 PM	11.749	11.7555			N/A
10/4/2018	GBPSGD	9:30:00 AM	1.79	1.7906			N/A
10/4/2018	GBPSGD	11:30:00 AM	1.7895	1.7901			N/A
10/4/2018	GBPSGD	1:30:00 PM	1.7916	1.7922			N/A
10/4/2018	GBPSGD	3:30:00 PM	1.795	1.7952			N/A
10/4/2018	GBPUSD	9:30:00 AM	1.29621	1.29592			N/A

10/4/2018	GBPUSD	11:30:00 AM	1.29672	1.29659			N/A
10/4/2018	GBPUSD	1:30:00 PM	1.29878	1.29868			N/A
10/4/2018	GBPUSD	3:30:00 PM	1.30164	1.30123			N/A
10/4/2018	GBPZAR	9:30:00 AM	19.0025	19.0119			N/A
10/4/2018	GBPZAR	11:30:00 AM	19.1053	19.1237			N/A
10/4/2018	GBPZAR	1:30:00 PM	19.0347	19.0627			N/A
10/4/2018	GBPZAR	3:30:00 PM	19.0664	19.0814			N/A
10/4/2018	GOLD	9:30:00 AM	1199.08	1199.11			N/A
10/4/2018	GOLD	11:30:00 AM	1199.26	1199.58			N/A
10/4/2018	GOLD	1:30:00 PM	1199.61	1199.89			N/A
10/4/2018	GOLD	3:30:00 PM	1202.92	1202.54			N/A
10/4/2018	HKDJPY	9:30:00 AM					N/A
10/4/2018	HKDJPY	11:30:00 AM					N/A
10/4/2018	HKDJPY	1:30:00 PM					N/A
10/4/2018	HKDJPY	3:30:00 PM	14.56	14.58			N/A
10/4/2018	HUFJPY	9:30:00 AM	0.4056	0.4059			N/A
10/4/2018	HUFJPY	11:30:00 AM	0.4057	0.4059			N/A
10/4/2018	HUFJPY	1:30:00 PM	0.4057	0.406			N/A
10/4/2018	HUFJPY	3:30:00 PM	0.4055	0.4057			N/A
10/4/2018	MXNJPY	9:30:00 AM					N/A
10/4/2018	MXNJPY	11:30:00 AM					N/A
10/4/2018	MXNJPY	1:30:00 PM					N/A
10/4/2018	MXNJPY	3:30:00 PM					N/A
10/4/2018	NOKJPY	9:30:00 AM					N/A
10/4/2018	NOKJPY	11:30:00 AM					N/A
10/4/2018	NOKJPY	1:30:00 PM					N/A
10/4/2018	NOKJPY	3:30:00 PM	13.88	13.91			N/A
10/4/2018	NZDCAD	9:30:00 AM	0.83609	0.83674			N/A
10/4/2018	NZDCAD	11:30:00 AM	0.8358	0.83647			N/A
10/4/2018	NZDCAD	1:30:00 PM	0.83466	0.83541			N/A
10/4/2018	NZDCAD	3:30:00 PM	0.83664	0.83707			N/A
10/4/2018	NZDCHF	9:30:00 AM	0.64359	0.64404			N/A
10/4/2018	NZDCHF	11:30:00 AM	0.6435	0.64419			N/A
10/4/2018	NZDCHF	1:30:00 PM	0.6435	0.6442			N/A
10/4/2018	NZDCHF	3:30:00 PM	0.64462	0.64516			N/A
10/4/2018	NZDCZK	9:30:00 AM	14.565	14.573			N/A
10/4/2018	NZDCZK	11:30:00 AM	14.558	14.57			N/A
10/4/2018	NZDCZK	1:30:00 PM	14.543	14.553			N/A
10/4/2018	NZDCZK	3:30:00 PM	14.541	14.548			N/A
10/4/2018	NZDDKK	9:30:00 AM	4.217	4.22			N/A
10/4/2018	NZDDKK	11:30:00 AM					N/A
10/4/2018	NZDDKK	1:30:00 PM	4.206	4.21			N/A
10/4/2018	NZDDKK	3:30:00 PM	4.205	4.209			N/A
10/4/2018	NZDHKD	9:30:00 AM	5.0865	5.089			N/A
10/4/2018	NZDHKD	11:30:00 AM	5.0839	5.0868			N/A
10/4/2018	NZDHKD	1:30:00 PM	5.083	5.0858			N/A
10/4/2018	NZDHKD	3:30:00 PM	5.0905	5.0934			N/A
10/4/2018	NZDHUF	9:30:00 AM	182.88	183.15			N/A
10/4/2018	NZDHUF	11:30:00 AM	182.85	183.14			N/A
10/4/2018	NZDHUF	1:30:00 PM	182.73	183			N/A

10/4/2018	NZDHUF	3:30:00 PM	182.75	182.96			N/A
10/4/2018	NZDJPY	9:30:00 AM	74.179	74.235			N/A
10/4/2018	NZDJPY	11:30:00 AM	74.179	74.241			N/A
10/4/2018	NZDJPY	1:30:00 PM	74.16	74.227			N/A
10/4/2018	NZDJPY	3:30:00 PM	74.169	74.211			N/A
10/4/2018	NZDMXN	9:30:00 AM	12.3656	12.3658			N/A
10/4/2018	NZDMXN	11:30:00 AM	12.38	12.3843			N/A
10/4/2018	NZDMXN	1:30:00 PM	12.3333	12.3385			N/A
10/4/2018	NZDMXN	3:30:00 PM	12.3414	12.3443			N/A
10/4/2018	NZDNOK	9:30:00 AM	5.3448	5.3464			N/A
10/4/2018	NZDNOK	11:30:00 AM	5.3397	5.3435			N/A
10/4/2018	NZDNOK	1:30:00 PM	5.3313	5.3344			N/A
10/4/2018	NZDNOK	3:30:00 PM	5.3414	5.3442			N/A
10/4/2018	NZDPLN	9:30:00 AM	2.4346	2.435			N/A
10/4/2018	NZDPLN	11:30:00 AM	2.4306	2.432			N/A
10/4/2018	NZDPLN	1:30:00 PM	2.4272	2.4282			N/A
10/4/2018	NZDPLN	3:30:00 PM	2.4266	2.428			N/A
10/4/2018	NZDSEK	9:30:00 AM	5.8695	5.8741			N/A
10/4/2018	NZDSEK	11:30:00 AM	5.8634	5.8703			N/A
10/4/2018	NZDSEK	1:30:00 PM	5.859	5.8649			N/A
10/4/2018	NZDSEK	3:30:00 PM	5.8655	5.8709			N/A
10/4/2018	NZDSGD	9:30:00 AM	0.8971	0.8976			N/A
10/4/2018	NZDSGD	11:30:00 AM	0.8961	0.8968			N/A
10/4/2018	NZDSGD	1:30:00 PM	0.8955	0.8962			N/A
10/4/2018	NZDSGD	3:30:00 PM	0.8965	0.8972			N/A
10/4/2018	NZDUSD	9:30:00 AM	0.64919	0.6493			N/A
10/4/2018	NZDUSD	11:30:00 AM	0.64902	0.64908			N/A
10/4/2018	NZDUSD	1:30:00 PM	0.64884	0.64897			N/A
10/4/2018	NZDUSD	3:30:00 PM	0.64978	0.6499			N/A
10/4/2018	NZDZAR	9:30:00 AM	9.5205	9.5152			N/A
10/4/2018	NZDZAR	11:30:00 AM	9.5662	9.5639			N/A
10/4/2018	NZDZAR	1:30:00 PM	9.5152	9.5173			N/A
10/4/2018	NZDZAR	3:30:00 PM	9.5238	9.5208			N/A
10/4/2018	SEKJPY	9:30:00 AM	12.64	12.65			N/A
10/4/2018	SEKJPY	11:30:00 AM	12.65	12.67			N/A
10/4/2018	SEKJPY	1:30:00 PM					N/A
10/4/2018	SEKJPY	3:30:00 PM	12.65	12.65			N/A
10/4/2018	SGDJPY	9:30:00 AM	82.69	82.7			N/A
10/4/2018	SGDJPY	11:30:00 AM	82.78	82.81			N/A
10/4/2018	SGDJPY	1:30:00 PM	82.81	82.84			N/A
10/4/2018	SGDJPY	3:30:00 PM	82.72	82.72			N/A
10/4/2018	SILVER	9:30:00 AM	14.4	14.78			N/A
10/4/2018	SILVER	11:30:00 AM	14.4	14.78			N/A
10/4/2018	SILVER	1:30:00 PM	14.45	14.84			N/A
10/4/2018	SILVER	3:30:00 PM	14.53	14.89			N/A
10/4/2018	USDCAD	9:30:00 AM	1.28787	1.2879			N/A
10/4/2018	USDCAD	11:30:00 AM	1.28784	1.28793			N/A
10/4/2018	USDCAD	1:30:00 PM	1.28642	1.28652			N/A
10/4/2018	USDCAD	3:30:00 PM	1.2876	1.28721			N/A
10/4/2018	USDCHF	9:30:00 AM	0.99135	0.99116			N/A

10/4/2018	USDCHF	11:30:00 AM	0.99164	0.99162			N/A
10/4/2018	USDCHF	1:30:00 PM	0.99175	0.99191			N/A
10/4/2018	USDCHF	3:30:00 PM	0.99182	0.99217			N/A
10/4/2018	USDCZK	9:30:00 AM	22.428	22.444			N/A
10/4/2018	USDCZK	11:30:00 AM	22.426	22.448			N/A
10/4/2018	USDCZK	1:30:00 PM	22.408	22.429			N/A
10/4/2018	USDCZK	3:30:00 PM	22.37	22.387			N/A
10/4/2018	USDDKK	9:30:00 AM	6.4973	6.5002			N/A
10/4/2018	USDDKK	11:30:00 AM	6.4869	6.4917			N/A
10/4/2018	USDDKK	1:30:00 PM	6.4832	6.4881			N/A
10/4/2018	USDDKK	3:30:00 PM	6.4726	6.4754			N/A
10/4/2018	USDHKD	9:30:00 AM	7.8351	7.8347			N/A
10/4/2018	USDHKD	11:30:00 AM	7.8346	7.8351			N/A
10/4/2018	USDHKD	1:30:00 PM	7.8346	7.835			N/A
10/4/2018	USDHKD	3:30:00 PM	7.8345	7.8347			N/A
10/4/2018	USDHUF	9:30:00 AM	281.72	282.11			N/A
10/4/2018	USDHUF	11:30:00 AM	281.74	282.18			N/A
10/4/2018	USDHUF	1:30:00 PM	281.62	282.07			N/A
10/4/2018	USDHUF	3:30:00 PM	281.27	281.54			N/A
10/4/2018	USDJPY	9:30:00 AM	114.286	114.263			N/A
10/4/2018	USDJPY	11:30:00 AM	114.311	114.322			N/A
10/4/2018	USDJPY	1:30:00 PM	114.31	114.317			N/A
10/4/2018	USDJPY	3:30:00 PM	114.159	114.122			N/A
10/4/2018	USDMXN	9:30:00 AM	19.049	19.047			N/A
10/4/2018	USDMXN	11:30:00 AM	19.077	19.08			N/A
10/4/2018	USDMXN	1:30:00 PM	19.008	19.015			N/A
10/4/2018	USDMXN	3:30:00 PM	18.994	18.993			N/A
10/4/2018	USDNOK	9:30:00 AM	8.2325	8.2386			N/A
10/4/2018	USDNOK	11:30:00 AM	8.2278	8.2358			N/A
10/4/2018	USDNOK	1:30:00 PM	8.2162	8.2249			N/A
10/4/2018	USDNOK	3:30:00 PM	8.2203	8.2265			N/A
10/4/2018	USDPLN	9:30:00 AM	3.7516	3.7509			N/A
10/4/2018	USDPLN	11:30:00 AM	3.7456	3.7464			N/A
10/4/2018	USDPLN	1:30:00 PM	3.7416	3.7425			N/A
10/4/2018	USDPLN	3:30:00 PM	3.7354	3.7353			N/A
10/4/2018	USDRUR	9:30:00 AM					N/A
10/4/2018	USDRUR	11:30:00 AM	66.138	66.523			N/A
10/4/2018	USDRUR	1:30:00 PM	66.158	66.537			N/A
10/4/2018	USDRUR	3:30:00 PM	66.401	66.71			N/A
10/4/2018	USDSEK	9:30:00 AM	9.0425	9.0446			N/A
10/4/2018	USDSEK	11:30:00 AM	9.0361	9.0396			N/A
10/4/2018	USDSEK	1:30:00 PM	9.0305	9.0351			N/A
10/4/2018	USDSEK	3:30:00 PM	9.0283	9.0292			N/A
10/4/2018	USDSGD	9:30:00 AM	1.3812	1.3815			N/A
10/4/2018	USDSGD	11:30:00 AM	1.3801	1.3804			N/A
10/4/2018	USDSGD	1:30:00 PM	1.3795	1.3799			N/A
10/4/2018	USDSGD	3:30:00 PM	1.3792	1.3795			N/A
10/4/2018	USDZAR	9:30:00 AM	14.6632	14.6657			N/A
10/4/2018	USDZAR	11:30:00 AM	14.7356	14.7439			N/A
10/4/2018	USDZAR	1:30:00 PM	14.6604	14.6759			N/A

10/4/2018	USDZAR	3:30:00 PM	14.6547	14.6591			N/A
10/4/2018	XAUUSD	9:30:00 AM	1199.09	1199.1			N/A
10/4/2018	XAUUSD	11:30:00 AM	1199.26	1199.58			N/A
10/4/2018	XAUUSD	1:30:00 PM	1199.61	1199.9			N/A
10/4/2018	XAUUSD	3:30:00 PM	1202.93	1202.53			N/A
10/4/2018	ZARJPY	9:30:00 AM	7.75	7.78			N/A
10/4/2018	ZARJPY	11:30:00 AM	7.71	7.74			N/A
10/4/2018	ZARJPY	1:30:00 PM					N/A
10/4/2018	ZARJPY	3:30:00 PM	7.73	7.76			N/A
10/5/2018	#AA	9:30:00 AM					N/A
10/5/2018	#AA	11:30:00 AM					N/A
10/5/2018	#AA	1:30:00 PM					N/A
10/5/2018	#AA	3:30:00 PM					N/A
10/5/2018	#AABA	9:30:00 AM					N/A
10/5/2018	#AABA	11:30:00 AM					N/A
10/5/2018	#AABA	1:30:00 PM					N/A
10/5/2018	#AABA	3:30:00 PM					N/A
10/5/2018	#AAL	9:30:00 AM					N/A
10/5/2018	#AAL	11:30:00 AM					N/A
10/5/2018	#AAL	1:30:00 PM					N/A
10/5/2018	#AAL	3:30:00 PM					N/A
10/5/2018	#AAPL	9:30:00 AM					N/A
10/5/2018	#AAPL	11:30:00 AM					N/A
10/5/2018	#AAPL	1:30:00 PM					N/A
10/5/2018	#AAPL	3:30:00 PM					N/A
10/5/2018	#ADBE	9:30:00 AM					N/A
10/5/2018	#ADBE	11:30:00 AM					N/A
10/5/2018	#ADBE	1:30:00 PM					N/A
10/5/2018	#ADBE	3:30:00 PM					N/A
10/5/2018	#AIG	9:30:00 AM					N/A
10/5/2018	#AIG	11:30:00 AM					N/A
10/5/2018	#AIG	1:30:00 PM					N/A
10/5/2018	#AIG	3:30:00 PM					N/A
10/5/2018	#AMD	9:30:00 AM					N/A
10/5/2018	#AMD	11:30:00 AM					N/A
10/5/2018	#AMD	1:30:00 PM					N/A
10/5/2018	#AMD	3:30:00 PM					N/A
10/5/2018	#AMZN	9:30:00 AM					N/A
10/5/2018	#AMZN	11:30:00 AM					N/A
10/5/2018	#AMZN	1:30:00 PM					N/A
10/5/2018	#AMZN	3:30:00 PM					N/A
10/5/2018	#AXP	9:30:00 AM					N/A
10/5/2018	#AXP	11:30:00 AM					N/A
10/5/2018	#AXP	1:30:00 PM					N/A
10/5/2018	#AXP	3:30:00 PM					N/A
10/5/2018	#BA	9:30:00 AM					N/A
10/5/2018	#BA	11:30:00 AM					N/A
10/5/2018	#BA	1:30:00 PM					N/A
10/5/2018	#BA	3:30:00 PM					N/A
10/5/2018	#BABA	9:30:00 AM					N/A

10/5/2018	#BABA	11:30:00 AM					N/A
10/5/2018	#BABA	1:30:00 PM					N/A
10/5/2018	#BABA	3:30:00 PM					N/A
10/5/2018	#BAC	9:30:00 AM					N/A
10/5/2018	#BAC	11:30:00 AM					N/A
10/5/2018	#BAC	1:30:00 PM					N/A
10/5/2018	#BAC	3:30:00 PM					N/A
10/5/2018	#BARC	9:30:00 AM					N/A
10/5/2018	#BARC	11:30:00 AM					N/A
10/5/2018	#BARC	1:30:00 PM					N/A
10/5/2018	#BARC	3:30:00 PM					N/A
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10/5/2018	#YHOO	11:30:00 AM					N/A
10/5/2018	#YHOO	1:30:00 PM					N/A
10/5/2018	#YHOO	3:30:00 PM					N/A
10/5/2018	#ZNGA	9:30:00 AM					N/A
10/5/2018	#ZNGA	11:30:00 AM					N/A
10/5/2018	#ZNGA	1:30:00 PM					N/A
10/5/2018	#ZNGA	3:30:00 PM					N/A
10/5/2018	AUDCAD	9:30:00 AM	0.91204	0.91265			N/A
10/5/2018	AUDCAD	11:30:00 AM	0.91365	0.91439			N/A
10/5/2018	AUDCAD	1:30:00 PM	0.91445	0.91511			N/A
10/5/2018	AUDCAD	3:30:00 PM	0.91445	0.91492			N/A
10/5/2018	AUDCHF	9:30:00 AM	0.70071	0.70133			N/A
10/5/2018	AUDCHF	11:30:00 AM	0.70207	0.70258			N/A
10/5/2018	AUDCHF	1:30:00 PM	0.70274	0.70339			N/A
10/5/2018	AUDCHF	3:30:00 PM	0.70191	0.7024			N/A
10/5/2018	AUDCZK	9:30:00 AM	15.803	15.821			N/A
10/5/2018	AUDCZK	11:30:00 AM	15.841	15.854			N/A
10/5/2018	AUDCZK	1:30:00 PM	15.826	15.841			N/A
10/5/2018	AUDCZK	3:30:00 PM	15.791	15.801			N/A
10/5/2018	AUDDKK	9:30:00 AM	4.5697	4.5739			N/A
10/5/2018	AUDDKK	11:30:00 AM	4.583	4.5872			N/A
10/5/2018	AUDDKK	1:30:00 PM	4.5859	4.5899			N/A
10/5/2018	AUDDKK	3:30:00 PM	4.5771	4.5806			N/A
10/5/2018	AUDHKD	9:30:00 AM	5.5252	5.528			N/A
10/5/2018	AUDHKD	11:30:00 AM	5.5336	5.5374			N/A
10/5/2018	AUDHKD	1:30:00 PM	5.5422	5.5453			N/A
10/5/2018	AUDHKD	3:30:00 PM	5.5434	5.5469			N/A
10/5/2018	AUDHUF	9:30:00 AM	198.81	199.04			N/A
10/5/2018	AUDHUF	11:30:00 AM	199.6	199.8			N/A
10/5/2018	AUDHUF	1:30:00 PM	199.55	199.79			N/A
10/5/2018	AUDHUF	3:30:00 PM	198.98	199.11			N/A
10/5/2018	AUDJPY	9:30:00 AM	80.293	80.358			N/A

10/5/2018	AUDJPY	11:30:00 AM	80.445	80.502			N/A
10/5/2018	AUDJPY	1:30:00 PM	80.562	80.624			N/A
10/5/2018	AUDJPY	3:30:00 PM	80.549	80.592			N/A
10/5/2018	AUDMXN	9:30:00 AM	13.4542	13.4628			N/A
10/5/2018	AUDMXN	11:30:00 AM	13.4595	13.4679			N/A
10/5/2018	AUDMXN	1:30:00 PM	13.4707	13.4734			N/A
10/5/2018	AUDMXN	3:30:00 PM	13.4092	13.4076			N/A
10/5/2018	AUDNOK	9:30:00 AM	5.8214	5.8266			N/A
10/5/2018	AUDNOK	11:30:00 AM	5.8463	5.851			N/A
10/5/2018	AUDNOK	1:30:00 PM	5.8474	5.8521			N/A
10/5/2018	AUDNOK	3:30:00 PM	5.8386	5.8436			N/A
10/5/2018	AUDNZD	9:30:00 AM	1.09154	1.0923			N/A
10/5/2018	AUDNZD	11:30:00 AM	1.09252	1.09337			N/A
10/5/2018	AUDNZD	1:30:00 PM	1.09286	1.09377			N/A
10/5/2018	AUDNZD	3:30:00 PM	1.09304	1.09388			N/A
10/5/2018	AUDPLN	9:30:00 AM	2.6381	2.6408			N/A
10/5/2018	AUDPLN	11:30:00 AM	2.6482	2.6511			N/A
10/5/2018	AUDPLN	1:30:00 PM	2.648	2.6507			N/A
10/5/2018	AUDPLN	3:30:00 PM	2.6394	2.6414			N/A
10/5/2018	AUDSEK	9:30:00 AM	6.3923	6.3903			N/A
10/5/2018	AUDSEK	11:30:00 AM	6.4201	6.4238			N/A
10/5/2018	AUDSEK	1:30:00 PM	6.4232	6.4257			N/A
10/5/2018	AUDSEK	3:30:00 PM	6.4117	6.4128			N/A
10/5/2018	AUDSGD	9:30:00 AM	0.9751	0.9754			N/A
10/5/2018	AUDSGD	11:30:00 AM	0.9766	0.9769			N/A
10/5/2018	AUDSGD	1:30:00 PM	0.9772	0.9774			N/A
10/5/2018	AUDSGD	3:30:00 PM	0.9773	0.9776			N/A
10/5/2018	AUDUSD	9:30:00 AM	0.70591	0.70599			N/A
10/5/2018	AUDUSD	11:30:00 AM	0.70685	0.70698	10	10	N/A
10/5/2018	AUDUSD	1:30:00 PM	0.70784	0.70791			N/A
10/5/2018	AUDUSD	3:30:00 PM	0.7082	0.70823			N/A
10/5/2018	AUDZAR	9:30:00 AM	10.4271	10.4364			N/A
10/5/2018	AUDZAR	11:30:00 AM	10.4565	10.4675			N/A
10/5/2018	AUDZAR	1:30:00 PM	10.4395	10.4511			N/A
10/5/2018	AUDZAR	3:30:00 PM	10.4129	10.415			N/A
10/5/2018	CADCHF	9:30:00 AM	0.76802	0.76866			N/A
10/5/2018	CADCHF	11:30:00 AM	0.7681	0.76864			N/A
10/5/2018	CADCHF	1:30:00 PM	0.76818	0.76891			N/A
10/5/2018	CADCHF	3:30:00 PM	0.76746	0.76776			N/A
10/5/2018	CADCZK	9:30:00 AM	17.327	17.345			N/A
10/5/2018	CADCZK	11:30:00 AM	17.336	17.35			N/A
10/5/2018	CADCZK	1:30:00 PM	17.304	17.322			N/A
10/5/2018	CADCZK	3:30:00 PM	17.271	17.277			N/A
10/5/2018	CADDDKK	9:30:00 AM	5.01	5.014			N/A
10/5/2018	CADDDKK	11:30:00 AM					N/A
10/5/2018	CADDDKK	1:30:00 PM					N/A
10/5/2018	CADDDKK	3:30:00 PM	5.005	5.008			N/A
10/5/2018	CADHKD	9:30:00 AM	6.0577	6.0612			N/A
10/5/2018	CADHKD	11:30:00 AM	6.0559	6.0598			N/A
10/5/2018	CADHKD	1:30:00 PM					N/A

10/5/2018	CADHKD	3:30:00 PM	6.0634	6.0662			N/A
10/5/2018	CADHUF	9:30:00 AM	218.01	218.18			N/A
10/5/2018	CADHUF	11:30:00 AM	218.46	218.61			N/A
10/5/2018	CADHUF	1:30:00 PM	218.25	218.4			N/A
10/5/2018	CADHUF	3:30:00 PM	217.68	217.68			N/A
10/5/2018	CADJPY	9:30:00 AM	88.017	88.08			N/A
10/5/2018	CADJPY	11:30:00 AM	88.02	88.076			N/A
10/5/2018	CADJPY	1:30:00 PM	88.07	88.14			N/A
10/5/2018	CADJPY	3:30:00 PM	88.076	88.116			N/A
10/5/2018	CADMXN	9:30:00 AM	14.7535	14.7617			N/A
10/5/2018	CADMXN	11:30:00 AM	14.73	14.7414			N/A
10/5/2018	CADMXN	1:30:00 PM	14.7281	14.7366			N/A
10/5/2018	CADMXN	3:30:00 PM	14.6675	14.6633			N/A
10/5/2018	CADNOK	9:30:00 AM	6.3834	6.3875			N/A
10/5/2018	CADNOK	11:30:00 AM	6.3991	6.4032			N/A
10/5/2018	CADNOK	1:30:00 PM	6.394	6.3987			N/A
10/5/2018	CADNOK	3:30:00 PM	6.3865	6.389			N/A
10/5/2018	CADPLN	9:30:00 AM	2.8923	2.8939			N/A
10/5/2018	CADPLN	11:30:00 AM	2.8976	2.8995			N/A
10/5/2018	CADPLN	1:30:00 PM	2.8954	2.8973			N/A
10/5/2018	CADPLN	3:30:00 PM	2.8862	2.8872			N/A
10/5/2018	CADSEK	9:30:00 AM	7.0066	7.0046			N/A
10/5/2018	CADSEK	11:30:00 AM	7.0247	7.028			N/A
10/5/2018	CADSEK	1:30:00 PM	7.0216	7.0253			N/A
10/5/2018	CADSEK	3:30:00 PM	7.0108	7.0117			N/A
10/5/2018	CADSGD	9:30:00 AM					N/A
10/5/2018	CADSGD	11:30:00 AM	1.0687	1.069			N/A
10/5/2018	CADSGD	1:30:00 PM	1.0684	1.0687			N/A
10/5/2018	CADSGD	3:30:00 PM	1.0686	1.069			N/A
10/5/2018	CADZAR	9:30:00 AM	11.4249	11.4387			N/A
10/5/2018	CADZAR	11:30:00 AM	11.4368	11.4514			N/A
10/5/2018	CADZAR	1:30:00 PM	11.4091	11.4239			N/A
10/5/2018	CADZAR	3:30:00 PM	11.3781	11.383			N/A
10/5/2018	CHFCZK	9:30:00 AM	22.556	22.571			N/A
10/5/2018	CHFCZK	11:30:00 AM	22.568	22.576			N/A
10/5/2018	CHFCZK	1:30:00 PM	22.519	22.537			N/A
10/5/2018	CHFCZK	3:30:00 PM	22.499	22.512			N/A
10/5/2018	CHFDKK	9:30:00 AM	6.521	6.524			N/A
10/5/2018	CHFDKK	11:30:00 AM	6.529	6.53			N/A
10/5/2018	CHFDKK	1:30:00 PM					N/A
10/5/2018	CHFDKK	3:30:00 PM	6.52	6.524			N/A
10/5/2018	CHFHKD	9:30:00 AM	7.8854	7.8886			N/A
10/5/2018	CHFHKD	11:30:00 AM	7.8834	7.8854			N/A
10/5/2018	CHFHKD	1:30:00 PM	7.8853	7.8892			N/A
10/5/2018	CHFHKD	3:30:00 PM	7.8997	7.9014			N/A
10/5/2018	CHFHUF	9:30:00 AM	283.7	284.03			N/A
10/5/2018	CHFHUF	11:30:00 AM	284.25	284.57			N/A
10/5/2018	CHFHUF	1:30:00 PM	283.91	284.26			N/A
10/5/2018	CHFHUF	3:30:00 PM	283.45	283.73			N/A
10/5/2018	CHFJPY	9:30:00 AM	114.527	114.574			N/A

10/5/2018	CHFJPY	11:30:00 AM	114.522	114.575			N/A
10/5/2018	CHFJPY	1:30:00 PM	114.557	114.626			N/A
10/5/2018	CHFJPY	3:30:00 PM	114.705	114.725			N/A
10/5/2018	CHFMXN	9:30:00 AM	19.2002	19.2115			N/A
10/5/2018	CHFMXN	11:30:00 AM	19.1715	19.1809			N/A
10/5/2018	CHFMXN	1:30:00 PM	19.1626	19.1725			N/A
10/5/2018	CHFMXN	3:30:00 PM	19.1025	19.1061			N/A
10/5/2018	CHFNOK	9:30:00 AM	8.3075	8.3152			N/A
10/5/2018	CHFNOK	11:30:00 AM	8.3278	8.3333			N/A
10/5/2018	CHFNOK	1:30:00 PM	8.3186	8.3262			N/A
10/5/2018	CHFNOK	3:30:00 PM	8.3193	8.3248			N/A
10/5/2018	CHFPLN	9:30:00 AM	3.7644	3.7666			N/A
10/5/2018	CHFPLN	11:30:00 AM	3.7719	3.7736			N/A
10/5/2018	CHFPLN	1:30:00 PM	3.767	3.77			N/A
10/5/2018	CHFPLN	3:30:00 PM	3.7595	3.7619			N/A
10/5/2018	CHFSEK	9:30:00 AM	9.1211	9.1185			N/A
10/5/2018	CHFSEK	11:30:00 AM	9.1455	9.1468			N/A
10/5/2018	CHFSEK	1:30:00 PM	9.1376	9.1418			N/A
10/5/2018	CHFSEK	3:30:00 PM	9.1342	9.1334			N/A
10/5/2018	CHFSGD	9:30:00 AM	1.3914	1.3915			N/A
10/5/2018	CHFSGD	11:30:00 AM	1.3907	1.391			N/A
10/5/2018	CHFSGD	1:30:00 PM	1.39	1.3904			N/A
10/5/2018	CHFSGD	3:30:00 PM	1.3922	1.3924			N/A
10/5/2018	CHFZAR	9:30:00 AM	14.874	14.8857			N/A
10/5/2018	CHFZAR	11:30:00 AM	14.8889	14.8989			N/A
10/5/2018	CHFZAR	1:30:00 PM	14.8492	14.8609			N/A
10/5/2018	CHFZAR	3:30:00 PM	14.8244	14.8303			N/A
10/5/2018	CZKJPY	9:30:00 AM	5.078	5.082			N/A
10/5/2018	CZKJPY	11:30:00 AM	5.076	5.079			N/A
10/5/2018	CZKJPY	1:30:00 PM	5.088	5.091			N/A
10/5/2018	CZKJPY	3:30:00 PM	5.1	5.101			N/A
10/5/2018	DKKJPY	9:30:00 AM					N/A
10/5/2018	DKKJPY	11:30:00 AM					N/A
10/5/2018	DKKJPY	1:30:00 PM					N/A
10/5/2018	DKKJPY	3:30:00 PM	17.6	17.61			N/A
10/5/2018	EURAUD	9:30:00 AM	1.63115	1.63141			N/A
10/5/2018	EURAUD	11:30:00 AM	1.62662	1.62689			N/A
10/5/2018	EURAUD	1:30:00 PM	1.62587	1.62608			N/A
10/5/2018	EURAUD	3:30:00 PM	1.62901	1.62903			N/A
10/5/2018	EURCAD	9:30:00 AM	1.48819	1.48894			N/A
10/5/2018	EURCAD	11:30:00 AM	1.48688	1.48753			N/A
10/5/2018	EURCAD	1:30:00 PM	1.48734	1.48811			N/A
10/5/2018	EURCAD	3:30:00 PM	1.49039	1.49041			N/A
10/5/2018	EURCHF	9:30:00 AM	1.14342	1.14339			N/A
10/5/2018	EURCHF	11:30:00 AM	1.14258	1.14218			N/A
10/5/2018	EURCHF	1:30:00 PM	1.14311	1.14312			N/A
10/5/2018	EURCHF	3:30:00 PM	1.14347	1.14404			N/A
10/5/2018	EURCZK	9:30:00 AM	25.778	25.815			N/A
10/5/2018	EURCZK	11:30:00 AM	25.771	25.808			N/A
10/5/2018	EURCZK	1:30:00 PM					N/A

10/5/2018	EURCZK	3:30:00 PM	25.721	25.758			N/A
10/5/2018	EURDKK	9:30:00 AM	7.4559	7.4571			N/A
10/5/2018	EURDKK	11:30:00 AM					N/A
10/5/2018	EURDKK	1:30:00 PM	7.4584	7.4595			N/A
10/5/2018	EURDKK	3:30:00 PM	7.4576	7.4588			N/A
10/5/2018	EURGBP	9:30:00 AM	0.8822	0.88212			N/A
10/5/2018	EURGBP	11:30:00 AM	0.88181	0.88188			N/A
10/5/2018	EURGBP	1:30:00 PM	0.88204	0.88204			N/A
10/5/2018	EURGBP	3:30:00 PM	0.88059	0.88062			N/A
10/5/2018	EURHKD	9:30:00 AM	9.0147	9.0187			N/A
10/5/2018	EURHKD	11:30:00 AM	9.0038	9.0078			N/A
10/5/2018	EURHKD	1:30:00 PM	9.0117	9.0168			N/A
10/5/2018	EURHKD	3:30:00 PM	9.0343	9.0357			N/A
10/5/2018	EURHUF	9:30:00 AM	324.23	324.98			N/A
10/5/2018	EURHUF	11:30:00 AM	324.6	325.29			N/A
10/5/2018	EURHUF	1:30:00 PM	324.43	325.16			N/A
10/5/2018	EURHUF	3:30:00 PM	324.07	324.67			N/A
10/5/2018	EURJPY	9:30:00 AM	131.024	131.012			N/A
10/5/2018	EURJPY	11:30:00 AM	130.906	130.873			N/A
10/5/2018	EURJPY	1:30:00 PM	131.023	131.03			N/A
10/5/2018	EURJPY	3:30:00 PM	131.271	131.205			N/A
10/5/2018	EURMXN	9:30:00 AM	21.9573	21.9707			N/A
10/5/2018	EURMXN	11:30:00 AM	21.9011	21.9186			N/A
10/5/2018	EURMXN	1:30:00 PM	21.9038	21.9182			N/A
10/5/2018	EURMXN	3:30:00 PM	21.8505	21.854			N/A
10/5/2018	EURNOK	9:30:00 AM	9.4981	9.5088			N/A
10/5/2018	EURNOK	11:30:00 AM	9.5119	9.5223			N/A
10/5/2018	EURNOK	1:30:00 PM	9.5071	9.5192			N/A
10/5/2018	EURNOK	3:30:00 PM	9.5127	9.5234			N/A
10/5/2018	EURNZD	9:30:00 AM	1.781	1.78171			N/A
10/5/2018	EURNZD	11:30:00 AM	1.77789	1.7785			N/A
10/5/2018	EURNZD	1:30:00 PM	1.77759	1.77827			N/A
10/5/2018	EURNZD	3:30:00 PM	1.78138	1.78164			N/A
10/5/2018	EURPLN	9:30:00 AM	4.3042	4.3066			N/A
10/5/2018	EURPLN	11:30:00 AM	4.3084	4.3116			N/A
10/5/2018	EURPLN	1:30:00 PM	4.306	4.3091			N/A
10/5/2018	EURPLN	3:30:00 PM	4.3	4.3023			N/A
10/5/2018	EURRUR	9:30:00 AM					N/A
10/5/2018	EURRUR	11:30:00 AM	76.407	76.831			N/A
10/5/2018	EURRUR	1:30:00 PM	76.498	76.929			N/A
10/5/2018	EURRUR	3:30:00 PM	76.412	76.825			N/A
10/5/2018	EURSEK	9:30:00 AM	10.4289	10.4245			N/A
10/5/2018	EURSEK	11:30:00 AM	10.4455	10.449			N/A
10/5/2018	EURSEK	1:30:00 PM	10.4437	10.4487			N/A
10/5/2018	EURSEK	3:30:00 PM	10.4458	10.4477			N/A
10/5/2018	EURSGD	9:30:00 AM	1.5906	1.5913			N/A
10/5/2018	EURSGD	11:30:00 AM	1.5886	1.5891			N/A
10/5/2018	EURSGD	1:30:00 PM	1.5886	1.5894			N/A
10/5/2018	EURSGD	3:30:00 PM	1.5921	1.5925			N/A
10/5/2018	EURUSD	9:30:00 AM	1.15111	1.1511			N/A

10/5/2018	EURUSD	11:30:00 AM	1.14949	1.14947			N/A
10/5/2018	EURUSD	1:30:00 PM	1.15048	1.15061			N/A
10/5/2018	EURUSD	3:30:00 PM	1.15348	1.1531			N/A
10/5/2018	EURZAR	9:30:00 AM	17.0098	17.0216			N/A
10/5/2018	EURZAR	11:30:00 AM	17.0104	17.0239			N/A
10/5/2018	EURZAR	1:30:00 PM	16.9722	16.9896			N/A
10/5/2018	EURZAR	3:30:00 PM	16.9601	16.9648			N/A
10/5/2018	GBPAUD	9:30:00 AM	1.84894	1.84913			N/A
10/5/2018	GBPAUD	11:30:00 AM	1.84432	1.84495			N/A
10/5/2018	GBPAUD	1:30:00 PM	1.84322	1.84342			N/A
10/5/2018	GBPAUD	3:30:00 PM	1.84956	1.84989			N/A
10/5/2018	GBPCAD	9:30:00 AM	1.68685	1.68728			N/A
10/5/2018	GBPCAD	11:30:00 AM	1.68569	1.68631			N/A
10/5/2018	GBPCAD	1:30:00 PM	1.68601	1.68643			N/A
10/5/2018	GBPCAD	3:30:00 PM	1.69191	1.69201			N/A
10/5/2018	GBPCHF	9:30:00 AM	1.2961	1.29632			N/A
10/5/2018	GBPCHF	11:30:00 AM	1.2955	1.29539			N/A
10/5/2018	GBPCHF	1:30:00 PM	1.29579	1.29608			N/A
10/5/2018	GBPCHF	3:30:00 PM	1.29855	1.29913			N/A
10/5/2018	GBPCZK	9:30:00 AM	29.231	29.247			N/A
10/5/2018	GBPCZK	11:30:00 AM	29.226	29.243			N/A
10/5/2018	GBPCZK	1:30:00 PM	29.179	29.198			N/A
10/5/2018	GBPCZK	3:30:00 PM	29.215	29.231			N/A
10/5/2018	GBPDKK	9:30:00 AM	8.45	8.46			N/A
10/5/2018	GBPDKK	11:30:00 AM	8.454	8.465			N/A
10/5/2018	GBPDKK	1:30:00 PM	8.453	8.463			N/A
10/5/2018	GBPDKK	3:30:00 PM	8.466	8.477			N/A
10/5/2018	GBPHKD	9:30:00 AM	10.2194	10.2223			N/A
10/5/2018	GBPHKD	11:30:00 AM	10.2088	10.2138			N/A
10/5/2018	GBPHKD	1:30:00 PM	10.2163	10.2206			N/A
10/5/2018	GBPHKD	3:30:00 PM	10.2568	10.2595			N/A
10/5/2018	GBPHUF	9:30:00 AM	367.67	368.04			N/A
10/5/2018	GBPHUF	11:30:00 AM	368.16	368.57			N/A
10/5/2018	GBPHUF	1:30:00 PM	367.88	368.21			N/A
10/5/2018	GBPHUF	3:30:00 PM	368.07	368.38			N/A
10/5/2018	GBPJPY	9:30:00 AM	148.542	148.538			N/A
10/5/2018	GBPJPY	11:30:00 AM	148.443	148.445			N/A
10/5/2018	GBPJPY	1:30:00 PM	148.552	148.577			N/A
10/5/2018	GBPJPY	3:30:00 PM	149.061	149.036			N/A
10/5/2018	GBPMXN	9:30:00 AM	24.8863	24.8902			N/A
10/5/2018	GBPMXN	11:30:00 AM	24.8306	24.8433			N/A
10/5/2018	GBPMXN	1:30:00 PM	24.8281	24.8362			N/A
10/5/2018	GBPMXN	3:30:00 PM	24.8082	24.8034			N/A
10/5/2018	GBPNOK	9:30:00 AM	10.7683	10.7771			N/A
10/5/2018	GBPNOK	11:30:00 AM	10.7873	10.7969			N/A
10/5/2018	GBPNOK	1:30:00 PM	10.7806	10.7904			N/A
10/5/2018	GBPNOK	3:30:00 PM	10.804	10.8129			N/A
10/5/2018	GBPNZD	9:30:00 AM	2.01911	2.01962			N/A
10/5/2018	GBPNZD	11:30:00 AM	2.01625	2.01672			N/A
10/5/2018	GBPNZD	1:30:00 PM	2.01561	2.01583			N/A

10/5/2018	GBPNZD	3:30:00 PM	2.02288	2.02301			N/A
10/5/2018	GBPPLN	9:30:00 AM	4.8806	4.8807			N/A
10/5/2018	GBPPLN	11:30:00 AM	4.8866	4.8883			N/A
10/5/2018	GBPPLN	1:30:00 PM	4.8829	4.8844			N/A
10/5/2018	GBPPLN	3:30:00 PM	4.8838	4.8844			N/A
10/5/2018	GBPSEK	9:30:00 AM	11.8201	11.8188			N/A
10/5/2018	GBPSEK	11:30:00 AM	11.8434	11.8513			N/A
10/5/2018	GBPSEK	1:30:00 PM	11.8397	11.8477			N/A
10/5/2018	GBPSEK	3:30:00 PM	11.8608	11.8637			N/A
10/5/2018	GBPSGD	9:30:00 AM	1.8034	1.8036			N/A
10/5/2018	GBPSGD	11:30:00 AM	1.8015	1.8019			N/A
10/5/2018	GBPSGD	1:30:00 PM	1.8014	1.8018			N/A
10/5/2018	GBPSGD	3:30:00 PM	1.8079	1.8085			N/A
10/5/2018	GBPUSD	9:30:00 AM	1.30506	1.30486			N/A
10/5/2018	GBPUSD	11:30:00 AM	1.30357	1.30354			N/A
10/5/2018	GBPUSD	1:30:00 PM	1.30452	1.30439			N/A
10/5/2018	GBPUSD	3:30:00 PM	1.30986	1.3096			N/A
10/5/2018	GBPZAR	9:30:00 AM	19.281	19.2989			N/A
10/5/2018	GBPZAR	11:30:00 AM	19.2876	19.3088			N/A
10/5/2018	GBPZAR	1:30:00 PM	19.2389	19.2634			N/A
10/5/2018	GBPZAR	3:30:00 PM	19.2569	19.2675			N/A
10/5/2018	GOLD	9:30:00 AM	1198.21	1198.43			N/A
10/5/2018	GOLD	11:30:00 AM	1200.43	1200.09			N/A
10/5/2018	GOLD	1:30:00 PM	1203	1203.32			N/A
10/5/2018	GOLD	3:30:00 PM	1202.45	1202.21			N/A
10/5/2018	HKDJPY	9:30:00 AM					N/A
10/5/2018	HKDJPY	11:30:00 AM	14.53	14.55			N/A
10/5/2018	HKDJPY	1:30:00 PM	14.54	14.56			N/A
10/5/2018	HKDJPY	3:30:00 PM	14.53	14.54			N/A
10/5/2018	HUFJPY	9:30:00 AM	0.4036	0.404			N/A
10/5/2018	HUFJPY	11:30:00 AM	0.403	0.4033			N/A
10/5/2018	HUFJPY	1:30:00 PM					N/A
10/5/2018	HUFJPY	3:30:00 PM	0.4048	0.4052			N/A
10/5/2018	MXNJPY	9:30:00 AM					N/A
10/5/2018	MXNJPY	11:30:00 AM					N/A
10/5/2018	MXNJPY	1:30:00 PM					N/A
10/5/2018	MXNJPY	3:30:00 PM	6.01	6.02			N/A
10/5/2018	NOKJPY	9:30:00 AM					N/A
10/5/2018	NOKJPY	11:30:00 AM					N/A
10/5/2018	NOKJPY	1:30:00 PM					N/A
10/5/2018	NOKJPY	3:30:00 PM	13.79	13.83			N/A
10/5/2018	NZDCAD	9:30:00 AM	0.83505	0.83576			N/A
10/5/2018	NZDCAD	11:30:00 AM	0.83578	0.83649			N/A
10/5/2018	NZDCAD	1:30:00 PM	0.83619	0.8369			N/A
10/5/2018	NZDCAD	3:30:00 PM	0.83608	0.8366			N/A
10/5/2018	NZDCHF	9:30:00 AM	0.64155	0.64219			N/A
10/5/2018	NZDCHF	11:30:00 AM	0.64219	0.64272			N/A
10/5/2018	NZDCHF	1:30:00 PM	0.64256	0.64326			N/A
10/5/2018	NZDCHF	3:30:00 PM	0.64177	0.64224			N/A
10/5/2018	NZDCZK	9:30:00 AM	14.472	14.484			N/A

10/5/2018	NZDCZK	11:30:00 AM	14.492	14.503			N/A
10/5/2018	NZDCZK	1:30:00 PM	14.475	14.485			N/A
10/5/2018	NZDCZK	3:30:00 PM	14.44	14.446			N/A
10/5/2018	NZDDKK	9:30:00 AM					N/A
10/5/2018	NZDDKK	11:30:00 AM					N/A
10/5/2018	NZDDKK	1:30:00 PM	4.193	4.197			N/A
10/5/2018	NZDDKK	3:30:00 PM	4.184	4.188			N/A
10/5/2018	NZDHKD	9:30:00 AM	5.0593	5.0621			N/A
10/5/2018	NZDHKD	11:30:00 AM	5.0619	5.0648			N/A
10/5/2018	NZDHKD	1:30:00 PM					N/A
10/5/2018	NZDHKD	3:30:00 PM	5.0685	5.0711			N/A
10/5/2018	NZDHUF	9:30:00 AM	181.99	182.27			N/A
10/5/2018	NZDHUF	11:30:00 AM	182.52	182.79			N/A
10/5/2018	NZDHUF	1:30:00 PM	182.45	182.73			N/A
10/5/2018	NZDHUF	3:30:00 PM	181.89	182.08			N/A
10/5/2018	NZDJPY	9:30:00 AM	73.525	73.586			N/A
10/5/2018	NZDJPY	11:30:00 AM	73.586	73.649			N/A
10/5/2018	NZDJPY	1:30:00 PM	73.668	73.735			N/A
10/5/2018	NZDJPY	3:30:00 PM	73.649	73.695			N/A
10/5/2018	NZDMXN	9:30:00 AM	12.3217	12.3247			N/A
10/5/2018	NZDMXN	11:30:00 AM	12.3121	12.318			N/A
10/5/2018	NZDMXN	1:30:00 PM	12.3191	12.3196			N/A
10/5/2018	NZDMXN	3:30:00 PM	12.262	12.2571			N/A
10/5/2018	NZDNOK	9:30:00 AM	5.3305	5.3342			N/A
10/5/2018	NZDNOK	11:30:00 AM	5.348	5.3512			N/A
10/5/2018	NZDNOK	1:30:00 PM	5.3471	5.3506			N/A
10/5/2018	NZDNOK	3:30:00 PM	5.3386	5.3417			N/A
10/5/2018	NZDPLN	9:30:00 AM	2.4154	2.4166			N/A
10/5/2018	NZDPLN	11:30:00 AM	2.4221	2.4235			N/A
10/5/2018	NZDPLN	1:30:00 PM	2.4213	2.4228			N/A
10/5/2018	NZDPLN	3:30:00 PM	2.4132	2.414			N/A
10/5/2018	NZDSEK	9:30:00 AM	5.8489	5.8512			N/A
10/5/2018	NZDSEK	11:30:00 AM	5.8696	5.8758			N/A
10/5/2018	NZDSEK	1:30:00 PM	5.8703	5.8771			N/A
10/5/2018	NZDSEK	3:30:00 PM	5.8589	5.8641			N/A
10/5/2018	NZDSGD	9:30:00 AM	0.8929	0.8935			N/A
10/5/2018	NZDSGD	11:30:00 AM	0.8933	0.894			N/A
10/5/2018	NZDSGD	1:30:00 PM	0.8935	0.8942			N/A
10/5/2018	NZDSGD	3:30:00 PM	0.8937	0.8943			N/A
10/5/2018	NZDUSD	9:30:00 AM	0.6459	0.64605			N/A
10/5/2018	NZDUSD	11:30:00 AM	0.64615	0.64629			N/A
10/5/2018	NZDUSD	1:30:00 PM	0.64684	0.64697			N/A
10/5/2018	NZDUSD	3:30:00 PM	0.6471	0.64716			N/A
10/5/2018	NZDZAR	9:30:00 AM	9.5462	9.5465			N/A
10/5/2018	NZDZAR	11:30:00 AM	9.5641	9.5648			N/A
10/5/2018	NZDZAR	1:30:00 PM	9.5471	9.5471			N/A
10/5/2018	NZDZAR	3:30:00 PM	9.5169	9.5114			N/A
10/5/2018	SEKJPY	9:30:00 AM	12.58	12.58			N/A
10/5/2018	SEKJPY	11:30:00 AM					N/A
10/5/2018	SEKJPY	1:30:00 PM					N/A

10/5/2018	SEKJPY	3:30:00 PM	12.57	12.58			N/A
10/5/2018	SGDJPY	9:30:00 AM	82.34	82.36			N/A
10/5/2018	SGDJPY	11:30:00 AM	82.36	82.39			N/A
10/5/2018	SGDJPY	1:30:00 PM	82.43	82.46			N/A
10/5/2018	SGDJPY	3:30:00 PM	82.41	82.41			N/A
10/5/2018	SILVER	9:30:00 AM	14.35	14.74			N/A
10/5/2018	SILVER	11:30:00 AM	14.38	14.76			N/A
10/5/2018	SILVER	1:30:00 PM	14.44	14.83			N/A
10/5/2018	SILVER	3:30:00 PM	14.46	14.84			N/A
10/5/2018	USDCAD	9:30:00 AM	1.29271	1.29278			N/A
10/5/2018	USDCAD	11:30:00 AM	1.29337	1.29343			N/A
10/5/2018	USDCAD	1:30:00 PM	1.2926	1.29273			N/A
10/5/2018	USDCAD	3:30:00 PM	1.292	1.29177			N/A
10/5/2018	USDCHF	9:30:00 AM	0.99332	0.99328			N/A
10/5/2018	USDCHF	11:30:00 AM	0.99387	0.99366			N/A
10/5/2018	USDCHF	1:30:00 PM	0.99343	0.99353			N/A
10/5/2018	USDCHF	3:30:00 PM	0.99147	0.99185			N/A
10/5/2018	USDCZK	9:30:00 AM	22.4	22.423			N/A
10/5/2018	USDCZK	11:30:00 AM	22.422	22.442			N/A
10/5/2018	USDCZK	1:30:00 PM	22.368	22.391			N/A
10/5/2018	USDCZK	3:30:00 PM	22.309	22.322			N/A
10/5/2018	USDDKK	9:30:00 AM	6.479	6.4835			N/A
10/5/2018	USDDKK	11:30:00 AM	6.4889	6.4935			N/A
10/5/2018	USDDKK	1:30:00 PM	6.4831	6.4885			N/A
10/5/2018	USDDKK	3:30:00 PM	6.4687	6.4715			N/A
10/5/2018	USDHKD	9:30:00 AM	7.8328	7.8332			N/A
10/5/2018	USDHKD	11:30:00 AM	7.834	7.8345			N/A
10/5/2018	USDHKD	1:30:00 PM	7.8342	7.8347			N/A
10/5/2018	USDHKD	3:30:00 PM	7.8335	7.834			N/A
10/5/2018	USDHUF	9:30:00 AM	281.77	282.2			N/A
10/5/2018	USDHUF	11:30:00 AM	282.47	282.87			N/A
10/5/2018	USDHUF	1:30:00 PM	282.05	282.51			N/A
10/5/2018	USDHUF	3:30:00 PM	281.13	281.37			N/A
10/5/2018	USDJPY	9:30:00 AM	113.837	113.838			N/A
10/5/2018	USDJPY	11:30:00 AM	113.895	113.887			N/A
10/5/2018	USDJPY	1:30:00 PM	113.899	113.914			N/A
10/5/2018	USDJPY	3:30:00 PM	113.823	113.813			N/A
10/5/2018	USDMXN	9:30:00 AM	19.076	19.079			N/A
10/5/2018	USDMXN	11:30:00 AM	19.054	19.063			N/A
10/5/2018	USDMXN	1:30:00 PM	19.038	19.045			N/A
10/5/2018	USDMXN	3:30:00 PM	18.952	18.937			N/A
10/5/2018	USDNOK	9:30:00 AM	8.2529	8.2602			N/A
10/5/2018	USDNOK	11:30:00 AM	8.2759	8.2841			N/A
10/5/2018	USDNOK	1:30:00 PM	8.2646	8.274			N/A
10/5/2018	USDNOK	3:30:00 PM	8.2507	8.2573			N/A
10/5/2018	USDPLN	9:30:00 AM	3.74	3.7403			N/A
10/5/2018	USDPLN	11:30:00 AM	3.7488	3.7499			N/A
10/5/2018	USDPLN	1:30:00 PM	3.7431	3.7445			N/A
10/5/2018	USDPLN	3:30:00 PM	3.7293	3.7288			N/A
10/5/2018	USDRUR	9:30:00 AM					N/A

10/5/2018	USDRUR	11:30:00 AM	66.53	66.919			N/A
10/5/2018	USDRUR	1:30:00 PM	66.56	66.939			N/A
10/5/2018	USDRUR	3:30:00 PM	66.331	66.687			N/A
10/5/2018	USDSEK	9:30:00 AM	9.0575	9.0546			N/A
10/5/2018	USDSEK	11:30:00 AM	9.0845	9.0896			N/A
10/5/2018	USDSEK	1:30:00 PM	9.0754	9.0803			N/A
10/5/2018	USDSEK	3:30:00 PM	9.0565	9.0568			N/A
10/5/2018	USDSGD	9:30:00 AM	1.3818	1.3821			N/A
10/5/2018	USDSGD	11:30:00 AM	1.3818	1.3823			N/A
10/5/2018	USDSGD	1:30:00 PM	1.3809	1.3813			N/A
10/5/2018	USDSGD	3:30:00 PM	1.3805	1.3807			N/A
10/5/2018	USDZAR	9:30:00 AM	14.7774	14.7872			N/A
10/5/2018	USDZAR	11:30:00 AM	14.7977	14.8092			N/A
10/5/2018	USDZAR	1:30:00 PM	14.751	14.7673			N/A
10/5/2018	USDZAR	3:30:00 PM	14.7079	14.7079			N/A
10/5/2018	XAUUSD	9:30:00 AM	1198.21	1198.43			N/A
10/5/2018	XAUUSD	11:30:00 AM	1200.44	1200.09			N/A
10/5/2018	XAUUSD	1:30:00 PM	1203.01	1203.32			N/A
10/5/2018	XAUUSD	3:30:00 PM	1202.45	1202.21			N/A
10/5/2018	ZARJPY	9:30:00 AM					N/A
10/5/2018	ZARJPY	11:30:00 AM	7.65	7.68			N/A
10/5/2018	ZARJPY	1:30:00 PM					N/A
10/5/2018	ZARJPY	3:30:00 PM					N/A
10/8/2018	#AA	9:30:00 AM					N/A
10/8/2018	#AA	11:30:00 AM					N/A
10/8/2018	#AA	1:30:00 PM					N/A
10/8/2018	#AA	3:30:00 PM					N/A
10/8/2018	#AABA	9:30:00 AM					N/A
10/8/2018	#AABA	11:30:00 AM					N/A
10/8/2018	#AABA	1:30:00 PM					N/A
10/8/2018	#AABA	3:30:00 PM					N/A
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10/8/2018	#AAL	11:30:00 AM					N/A
10/8/2018	#AAL	1:30:00 PM					N/A
10/8/2018	#AAL	3:30:00 PM					N/A
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10/8/2018	#AAPL	1:30:00 PM					N/A
10/8/2018	#AAPL	3:30:00 PM					N/A
10/8/2018	#ADBE	9:30:00 AM					N/A
10/8/2018	#ADBE	11:30:00 AM					N/A
10/8/2018	#ADBE	1:30:00 PM					N/A
10/8/2018	#ADBE	3:30:00 PM					N/A
10/8/2018	#AIG	9:30:00 AM					N/A
10/8/2018	#AIG	11:30:00 AM					N/A
10/8/2018	#AIG	1:30:00 PM					N/A
10/8/2018	#AIG	3:30:00 PM					N/A
10/8/2018	#AMD	9:30:00 AM					N/A
10/8/2018	#AMD	11:30:00 AM					N/A
10/8/2018	#AMD	1:30:00 PM					N/A

10/8/2018	#AMD	3:30:00 PM					N/A
10/8/2018	#AMZN	9:30:00 AM					N/A
10/8/2018	#AMZN	11:30:00 AM					N/A
10/8/2018	#AMZN	1:30:00 PM					N/A
10/8/2018	#AMZN	3:30:00 PM					N/A
10/8/2018	#AXP	9:30:00 AM					N/A
10/8/2018	#AXP	11:30:00 AM					N/A
10/8/2018	#AXP	1:30:00 PM					N/A
10/8/2018	#AXP	3:30:00 PM					N/A
10/8/2018	#BA	9:30:00 AM					N/A
10/8/2018	#BA	11:30:00 AM					N/A
10/8/2018	#BA	1:30:00 PM					N/A
10/8/2018	#BA	3:30:00 PM					N/A
10/8/2018	#BABA	9:30:00 AM					N/A
10/8/2018	#BABA	11:30:00 AM					N/A
10/8/2018	#BABA	1:30:00 PM					N/A
10/8/2018	#BABA	3:30:00 PM					N/A
10/8/2018	#BAC	9:30:00 AM					N/A
10/8/2018	#BAC	11:30:00 AM					N/A
10/8/2018	#BAC	1:30:00 PM					N/A
10/8/2018	#BAC	3:30:00 PM					N/A
10/8/2018	#BARC	9:30:00 AM					N/A
10/8/2018	#BARC	11:30:00 AM					N/A
10/8/2018	#BARC	1:30:00 PM					N/A
10/8/2018	#BARC	3:30:00 PM					N/A
10/8/2018	#BHP	9:30:00 AM					N/A
10/8/2018	#BHP	11:30:00 AM					N/A
10/8/2018	#BHP	1:30:00 PM					N/A
10/8/2018	#BHP	3:30:00 PM					N/A
10/8/2018	#BIDU	9:30:00 AM					N/A
10/8/2018	#BIDU	11:30:00 AM					N/A
10/8/2018	#BIDU	1:30:00 PM					N/A
10/8/2018	#BIDU	3:30:00 PM					N/A
10/8/2018	#BK	9:30:00 AM					N/A
10/8/2018	#BK	11:30:00 AM					N/A
10/8/2018	#BK	1:30:00 PM					N/A
10/8/2018	#BK	3:30:00 PM					N/A
10/8/2018	#BLT	9:30:00 AM					N/A
10/8/2018	#BLT	11:30:00 AM					N/A
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10/8/2018	AUDCAD	3:30:00 PM	0.91727	0.91789			N/A
10/8/2018	AUDCHF	9:30:00 AM	0.69903	0.69963			N/A
10/8/2018	AUDCHF	11:30:00 AM	0.69978	0.70042			N/A
10/8/2018	AUDCHF	1:30:00 PM	0.70126	0.70198			N/A
10/8/2018	AUDCHF	3:30:00 PM	0.70158	0.70219			N/A
10/8/2018	AUDCZK	9:30:00 AM	15.794	15.811			N/A
10/8/2018	AUDCZK	11:30:00 AM	15.815	15.83			N/A
10/8/2018	AUDCZK	1:30:00 PM	15.829	15.846			N/A

10/8/2018	AUDCZK	3:30:00 PM	15.845	15.86			N/A
10/8/2018	AUDDKK	9:30:00 AM	4.5727	4.5771			N/A
10/8/2018	AUDDKK	11:30:00 AM	4.5825	4.587			N/A
10/8/2018	AUDDKK	1:30:00 PM	4.5895	4.5942			N/A
10/8/2018	AUDDKK	3:30:00 PM	4.5929	4.597			N/A
10/8/2018	AUDHKD	9:30:00 AM	5.5182	5.5222			N/A
10/8/2018	AUDHKD	11:30:00 AM	5.5222	5.526			N/A
10/8/2018	AUDHKD	1:30:00 PM	5.5294	5.5332			N/A
10/8/2018	AUDHKD	3:30:00 PM	5.527	5.5308			N/A
10/8/2018	AUDHUF	9:30:00 AM	199.26	199.48			N/A
10/8/2018	AUDHUF	11:30:00 AM	199.67	199.9			N/A
10/8/2018	AUDHUF	1:30:00 PM	199.96	200.16			N/A
10/8/2018	AUDHUF	3:30:00 PM	200.15	200.37			N/A
10/8/2018	AUDJPY	9:30:00 AM	80.239	80.302			N/A
10/8/2018	AUDJPY	11:30:00 AM	79.934	79.985			N/A
10/8/2018	AUDJPY	1:30:00 PM	80.06	80.125			N/A
10/8/2018	AUDJPY	3:30:00 PM	79.849	79.885			N/A
10/8/2018	AUDMXN	9:30:00 AM	13.2639	13.272			N/A
10/8/2018	AUDMXN	11:30:00 AM	13.2884	13.2976			N/A
10/8/2018	AUDMXN	1:30:00 PM	13.2947	13.3034			N/A
10/8/2018	AUDMXN	3:30:00 PM	13.3508	13.3577			N/A
10/8/2018	AUDNOK	9:30:00 AM	5.8291	5.835			N/A
10/8/2018	AUDNOK	11:30:00 AM	5.8448	5.8497			N/A
10/8/2018	AUDNOK	1:30:00 PM	5.847	5.8529			N/A
10/8/2018	AUDNOK	3:30:00 PM	5.8523	5.858			N/A
10/8/2018	AUDNZD	9:30:00 AM	1.09477	1.09559			N/A
10/8/2018	AUDNZD	11:30:00 AM	1.09381	1.09467			N/A
10/8/2018	AUDNZD	1:30:00 PM	1.09467	1.09551			N/A
10/8/2018	AUDNZD	3:30:00 PM	1.09493	1.09573			N/A
10/8/2018	AUDPLN	9:30:00 AM	2.6401	2.643			N/A
10/8/2018	AUDPLN	11:30:00 AM	2.6483	2.6512			N/A
10/8/2018	AUDPLN	1:30:00 PM	2.6498	2.6526			N/A
10/8/2018	AUDPLN	3:30:00 PM	2.6535	2.6563			N/A
10/8/2018	AUDSEK	9:30:00 AM	6.4016	6.4043			N/A
10/8/2018	AUDSEK	11:30:00 AM	6.4238	6.427			N/A
10/8/2018	AUDSEK	1:30:00 PM	6.4259	6.4282			N/A
10/8/2018	AUDSEK	3:30:00 PM	6.4367	6.4392			N/A
10/8/2018	AUDSGD	9:30:00 AM	0.9768	0.9771			N/A
10/8/2018	AUDSGD	11:30:00 AM	0.9772	0.9775			N/A
10/8/2018	AUDSGD	1:30:00 PM	0.9784	0.9787			N/A
10/8/2018	AUDSGD	3:30:00 PM	0.978	0.9783			N/A
10/8/2018	AUDUSD	9:30:00 AM	0.70554	0.70563			N/A
10/8/2018	AUDUSD	11:30:00 AM	0.70587	0.70593			N/A
10/8/2018	AUDUSD	1:30:00 PM	0.70671	0.70684			N/A
10/8/2018	AUDUSD	3:30:00 PM	0.70635	0.70639			N/A
10/8/2018	AUDZAR	9:30:00 AM	10.5045	10.51			N/A
10/8/2018	AUDZAR	11:30:00 AM	10.4878	10.4967			N/A
10/8/2018	AUDZAR	1:30:00 PM	10.5041	10.5179			N/A
10/8/2018	AUDZAR	3:30:00 PM	10.5263	10.5368			N/A
10/8/2018	CADCHF	9:30:00 AM	0.76281	0.76353			N/A

10/8/2018	CADCHF	11:30:00 AM	0.76269	0.76337			N/A
10/8/2018	CADCHF	1:30:00 PM	0.76361	0.76425			N/A
10/8/2018	CADCHF	3:30:00 PM	0.7646	0.7652			N/A
10/8/2018	CADCZK	9:30:00 AM	17.244	17.258			N/A
10/8/2018	CADCZK	11:30:00 AM	17.242	17.258			N/A
10/8/2018	CADCZK	1:30:00 PM	17.241	17.256			N/A
10/8/2018	CADCZK	3:30:00 PM	17.274	17.29			N/A
10/8/2018	CADDDKK	9:30:00 AM					N/A
10/8/2018	CADDDKK	11:30:00 AM	4.996	5			N/A
10/8/2018	CADDDKK	1:30:00 PM					N/A
10/8/2018	CADDDKK	3:30:00 PM	5.007	5.011			N/A
10/8/2018	CADHKD	9:30:00 AM	6.0242	6.0274			N/A
10/8/2018	CADHKD	11:30:00 AM	6.0203	6.0243			N/A
10/8/2018	CADHKD	1:30:00 PM	6.023	6.0256			N/A
10/8/2018	CADHKD	3:30:00 PM	6.0252	6.029			N/A
10/8/2018	CADHUF	9:30:00 AM	217.55	217.71			N/A
10/8/2018	CADHUF	11:30:00 AM	217.73	217.89			N/A
10/8/2018	CADHUF	1:30:00 PM	217.78	217.95			N/A
10/8/2018	CADHUF	3:30:00 PM	218.22	218.38			N/A
10/8/2018	CADJPY	9:30:00 AM	87.582	87.638			N/A
10/8/2018	CADJPY	11:30:00 AM	87.13	87.181			N/A
10/8/2018	CADJPY	1:30:00 PM	87.189	87.247			N/A
10/8/2018	CADJPY	3:30:00 PM	87.029	87.06			N/A
10/8/2018	CADMXN	9:30:00 AM	14.4803	14.4896			N/A
10/8/2018	CADMXN	11:30:00 AM	14.4887	14.4984			N/A
10/8/2018	CADMXN	1:30:00 PM	14.4825	14.4909			N/A
10/8/2018	CADMXN	3:30:00 PM	14.5536	14.5634			N/A
10/8/2018	CADNOK	9:30:00 AM	6.3642	6.3685			N/A
10/8/2018	CADNOK	11:30:00 AM	6.373	6.377			N/A
10/8/2018	CADNOK	1:30:00 PM	6.3687	6.3724			N/A
10/8/2018	CADNOK	3:30:00 PM	6.3806	6.3853			N/A
10/8/2018	CADPLN	9:30:00 AM	2.8816	2.8836			N/A
10/8/2018	CADPLN	11:30:00 AM	2.8872	2.889			N/A
10/8/2018	CADPLN	1:30:00 PM	2.8856	2.8875			N/A
10/8/2018	CADPLN	3:30:00 PM	2.8929	2.8945			N/A
10/8/2018	CADSEK	9:30:00 AM	6.9867	6.9899			N/A
10/8/2018	CADSEK	11:30:00 AM	7.0026	7.0061			N/A
10/8/2018	CADSEK	1:30:00 PM	6.9968	7.0007			N/A
10/8/2018	CADSEK	3:30:00 PM	7.0153	7.0183			N/A
10/8/2018	CADSGD	9:30:00 AM	1.0663	1.0666			N/A
10/8/2018	CADSGD	11:30:00 AM	1.0655	1.0658			N/A
10/8/2018	CADSGD	1:30:00 PM	1.0654	1.0658			N/A
10/8/2018	CADSGD	3:30:00 PM	1.0662	1.0665			N/A
10/8/2018	CADZAR	9:30:00 AM	11.4582	11.4682			N/A
10/8/2018	CADZAR	11:30:00 AM	11.4277	11.4401			N/A
10/8/2018	CADZAR	1:30:00 PM	11.4346	11.4501			N/A
10/8/2018	CADZAR	3:30:00 PM	11.469	11.4817			N/A
10/8/2018	CHFCZK	9:30:00 AM	22.599	22.612			N/A
10/8/2018	CHFCZK	11:30:00 AM	22.602	22.617			N/A
10/8/2018	CHFCZK	1:30:00 PM	22.573	22.588			N/A

10/8/2018	CHFCZK	3:30:00 PM	22.588	22.601			N/A
10/8/2018	CHFDKK	9:30:00 AM					N/A
10/8/2018	CHFDKK	11:30:00 AM					N/A
10/8/2018	CHFDKK	1:30:00 PM					N/A
10/8/2018	CHFDKK	3:30:00 PM	6.545	6.549			N/A
10/8/2018	CHFHKD	9:30:00 AM	7.8943	7.8974			N/A
10/8/2018	CHFHKD	11:30:00 AM	7.8916	7.8946			N/A
10/8/2018	CHFHKD	1:30:00 PM	7.8846	7.8885			N/A
10/8/2018	CHFHKD	3:30:00 PM	7.8784	7.8816			N/A
10/8/2018	CHFHUF	9:30:00 AM	284.99	285.38			N/A
10/8/2018	CHFHUF	11:30:00 AM	285.29	285.67			N/A
10/8/2018	CHFHUF	1:30:00 PM	285.06	285.39			N/A
10/8/2018	CHFHUF	3:30:00 PM	285.23	285.58			N/A
10/8/2018	CHFJPY	9:30:00 AM	114.709	114.766			N/A
10/8/2018	CHFJPY	11:30:00 AM	114.157	114.184			N/A
10/8/2018	CHFJPY	1:30:00 PM	114.078	114.149			N/A
10/8/2018	CHFJPY	3:30:00 PM	113.736	113.741			N/A
10/8/2018	CHFMXN	9:30:00 AM	18.9712	18.9856			N/A
10/8/2018	CHFMXN	11:30:00 AM	18.9873	19.0007			N/A
10/8/2018	CHFMXN	1:30:00 PM	18.9548	18.9682			N/A
10/8/2018	CHFMXN	3:30:00 PM	19.0282	19.0371			N/A
10/8/2018	CHFNOK	9:30:00 AM	8.3387	8.3462			N/A
10/8/2018	CHFNOK	11:30:00 AM	8.3526	8.359			N/A
10/8/2018	CHFNOK	1:30:00 PM	8.3362	8.3439			N/A
10/8/2018	CHFNOK	3:30:00 PM	8.3423	8.349			N/A
10/8/2018	CHFPLN	9:30:00 AM	3.7759	3.7789			N/A
10/8/2018	CHFPLN	11:30:00 AM	3.7837	3.7865			N/A
10/8/2018	CHFPLN	1:30:00 PM	3.7775	3.7801			N/A
10/8/2018	CHFPLN	3:30:00 PM	3.7816	3.784			N/A
10/8/2018	CHFSEK	9:30:00 AM	9.1567	9.1602			N/A
10/8/2018	CHFSEK	11:30:00 AM	9.1798	9.182			N/A
10/8/2018	CHFSEK	1:30:00 PM	9.162	9.1637			N/A
10/8/2018	CHFSEK	3:30:00 PM	9.1735	9.1758			N/A
10/8/2018	CHFSGD	9:30:00 AM	1.3969	1.3974			N/A
10/8/2018	CHFSGD	11:30:00 AM	1.396	1.3965			N/A
10/8/2018	CHFSGD	1:30:00 PM	1.3946	1.3951			N/A
10/8/2018	CHFSGD	3:30:00 PM	1.3936	1.394			N/A
10/8/2018	CHFZAR	9:30:00 AM	15.0184	15.0233			N/A
10/8/2018	CHFZAR	11:30:00 AM	14.9815	14.9908			N/A
10/8/2018	CHFZAR	1:30:00 PM	14.9723	14.9865			N/A
10/8/2018	CHFZAR	3:30:00 PM	14.9997	15.0058			N/A
10/8/2018	CZKJPY	9:30:00 AM	5.077	5.081			N/A
10/8/2018	CZKJPY	11:30:00 AM	5.052	5.054			N/A
10/8/2018	CZKJPY	1:30:00 PM					N/A
10/8/2018	CZKJPY	3:30:00 PM	5.037	5.039			N/A
10/8/2018	DKKJPY	9:30:00 AM	17.55	17.56			N/A
10/8/2018	DKKJPY	11:30:00 AM					N/A
10/8/2018	DKKJPY	1:30:00 PM					N/A
10/8/2018	DKKJPY	3:30:00 PM					N/A
10/8/2018	EURAUD	9:30:00 AM	1.63032	1.63066			N/A

10/8/2018	EURAUD	11:30:00 AM	1.62682	1.62719			N/A
10/8/2018	EURAUD	1:30:00 PM	1.62446	1.6249			N/A
10/8/2018	EURAUD	3:30:00 PM	1.62353	1.62367			N/A
10/8/2018	EURCAD	9:30:00 AM	1.49391	1.49465			N/A
10/8/2018	EURCAD	11:30:00 AM	1.49268	1.49346			N/A
10/8/2018	EURCAD	1:30:00 PM	1.49196	1.49277			N/A
10/8/2018	EURCAD	3:30:00 PM	1.48973	1.49038			N/A
10/8/2018	EURCHF	9:30:00 AM	1.14011	1.14013			N/A
10/8/2018	EURCHF	11:30:00 AM	1.1389	1.13893			N/A
10/8/2018	EURCHF	1:30:00 PM	1.13975	1.13983			N/A
10/8/2018	EURCHF	3:30:00 PM	1.13923	1.13974			N/A
10/8/2018	EURCZK	9:30:00 AM	25.753	25.79			N/A
10/8/2018	EURCZK	11:30:00 AM	25.733	25.768			N/A
10/8/2018	EURCZK	1:30:00 PM	25.722	25.759			N/A
10/8/2018	EURCZK	3:30:00 PM	25.722	25.761			N/A
10/8/2018	EURDKK	9:30:00 AM	7.4584	7.4594			N/A
10/8/2018	EURDKK	11:30:00 AM	7.4585	7.4592			N/A
10/8/2018	EURDKK	1:30:00 PM	7.4592	7.4601			N/A
10/8/2018	EURDKK	3:30:00 PM	7.4588	7.46			N/A
10/8/2018	EURGBP	9:30:00 AM	0.8795	0.87963			N/A
10/8/2018	EURGBP	11:30:00 AM	0.87904	0.87905			N/A
10/8/2018	EURGBP	1:30:00 PM	0.88045	0.88057			N/A
10/8/2018	EURGBP	3:30:00 PM	0.87855	0.87854			N/A
10/8/2018	EURHKD	9:30:00 AM	8.9991	9.0035			N/A
10/8/2018	EURHKD	11:30:00 AM	8.9868	8.9901			N/A
10/8/2018	EURHKD	1:30:00 PM	8.9857	8.99			N/A
10/8/2018	EURHKD	3:30:00 PM	8.9751	8.9791			N/A
10/8/2018	EURHUF	9:30:00 AM	324.83	325.48			N/A
10/8/2018	EURHUF	11:30:00 AM	324.77	325.45			N/A
10/8/2018	EURHUF	1:30:00 PM	324.76	325.45			N/A
10/8/2018	EURHUF	3:30:00 PM	324.88	325.6			N/A
10/8/2018	EURJPY	9:30:00 AM	130.851	130.844			N/A
10/8/2018	EURJPY	11:30:00 AM	130.091	130.05			N/A
10/8/2018	EURJPY	1:30:00 PM	130.106	130.098			N/A
10/8/2018	EURJPY	3:30:00 PM	129.668	129.62			N/A
10/8/2018	EURMXN	9:30:00 AM	21.6336	21.6477			N/A
10/8/2018	EURMXN	11:30:00 AM	21.6267	21.6418			N/A
10/8/2018	EURMXN	1:30:00 PM	21.6058	21.6194			N/A
10/8/2018	EURMXN	3:30:00 PM	21.6794	21.6937			N/A
10/8/2018	EURNOK	9:30:00 AM	9.5055	9.5174			N/A
10/8/2018	EURNOK	11:30:00 AM	9.5109	9.5221			N/A
10/8/2018	EURNOK	1:30:00 PM	9.4998	9.5124			N/A
10/8/2018	EURNOK	3:30:00 PM	9.5038	9.5143			N/A
10/8/2018	EURNZD	9:30:00 AM	1.78559	1.78626			N/A
10/8/2018	EURNZD	11:30:00 AM	1.78024	1.78087			N/A
10/8/2018	EURNZD	1:30:00 PM	1.77899	1.77966			N/A
10/8/2018	EURNZD	3:30:00 PM	1.77821	1.77879			N/A
10/8/2018	EURPLN	9:30:00 AM	4.3052	4.3083			N/A
10/8/2018	EURPLN	11:30:00 AM	4.3092	4.3123			N/A
10/8/2018	EURPLN	1:30:00 PM	4.3057	4.3081			N/A

10/8/2018	EURPLN	3:30:00 PM	4.3087	4.3118			N/A
10/8/2018	EURRUR	9:30:00 AM					N/A
10/8/2018	EURRUR	11:30:00 AM	76.607	77.004			N/A
10/8/2018	EURRUR	1:30:00 PM	76.427	76.84			N/A
10/8/2018	EURRUR	3:30:00 PM	76.344	76.734			N/A
10/8/2018	EURSEK	9:30:00 AM	10.4385	10.4428			N/A
10/8/2018	EURSEK	11:30:00 AM	10.4537	10.4573			N/A
10/8/2018	EURSEK	1:30:00 PM	10.4413	10.4445			N/A
10/8/2018	EURSEK	3:30:00 PM	10.4506	10.4557			N/A
10/8/2018	EURSGD	9:30:00 AM	1.5925	1.5933			N/A
10/8/2018	EURSGD	11:30:00 AM	1.5898	1.5905			N/A
10/8/2018	EURSGD	1:30:00 PM	1.5894	1.5902			N/A
10/8/2018	EURSGD	3:30:00 PM	1.5877	1.5884			N/A
10/8/2018	EURUSD	9:30:00 AM	1.14994	1.14998			N/A
10/8/2018	EURUSD	11:30:00 AM	1.1481	1.14797			N/A
10/8/2018	EURUSD	1:30:00 PM	1.14781	1.14781			N/A
10/8/2018	EURUSD	3:30:00 PM	1.14639	1.14636			N/A
10/8/2018	EURZAR	9:30:00 AM	17.1269	17.1325			N/A
10/8/2018	EURZAR	11:30:00 AM	17.0655	17.0767			N/A
10/8/2018	EURZAR	1:30:00 PM	17.0664	17.0847			N/A
10/8/2018	EURZAR	3:30:00 PM	17.0918	17.1045			N/A
10/8/2018	GBPAUD	9:30:00 AM	1.85328	1.8539			N/A
10/8/2018	GBPAUD	11:30:00 AM	1.85055	1.851			N/A
10/8/2018	GBPAUD	1:30:00 PM	1.84468	1.84543			N/A
10/8/2018	GBPAUD	3:30:00 PM	1.84793	1.8482			N/A
10/8/2018	GBPCAD	9:30:00 AM	1.69807	1.69873			N/A
10/8/2018	GBPCAD	11:30:00 AM	1.69777	1.69832			N/A
10/8/2018	GBPCAD	1:30:00 PM	1.6942	1.69487			N/A
10/8/2018	GBPCAD	3:30:00 PM	1.69545	1.69594			N/A
10/8/2018	GBPCHF	9:30:00 AM	1.29606	1.29642			N/A
10/8/2018	GBPCHF	11:30:00 AM	1.29555	1.29569			N/A
10/8/2018	GBPCHF	1:30:00 PM	1.29426	1.29469			N/A
10/8/2018	GBPCHF	3:30:00 PM	1.29683	1.29746			N/A
10/8/2018	GBPCZK	9:30:00 AM	29.284	29.304			N/A
10/8/2018	GBPCZK	11:30:00 AM	29.277	29.295			N/A
10/8/2018	GBPCZK	1:30:00 PM	29.213	29.234			N/A
10/8/2018	GBPCZK	3:30:00 PM	29.289	29.307			N/A
10/8/2018	GBPDKK	9:30:00 AM	8.476	8.488			N/A
10/8/2018	GBPDKK	11:30:00 AM	8.48	8.492			N/A
10/8/2018	GBPDKK	1:30:00 PM	8.468	8.48			N/A
10/8/2018	GBPDKK	3:30:00 PM	8.487	8.498			N/A
10/8/2018	GBPHKD	9:30:00 AM	10.2295	10.2353			N/A
10/8/2018	GBPHKD	11:30:00 AM	10.2227	10.2253			N/A
10/8/2018	GBPHKD	1:30:00 PM	10.204	10.2092			N/A
10/8/2018	GBPHKD	3:30:00 PM	10.2157	10.2198			N/A
10/8/2018	GBPHUF	9:30:00 AM	369.35	369.8			N/A
10/8/2018	GBPHUF	11:30:00 AM	369.57	370.01			N/A
10/8/2018	GBPHUF	1:30:00 PM	368.92	369.34			N/A
10/8/2018	GBPHUF	3:30:00 PM	369.88	370.32			N/A
10/8/2018	GBPJPY	9:30:00 AM	148.772	148.804			N/A

10/8/2018	GBPJPY	11:30:00 AM	148.003	147.975			N/A
10/8/2018	GBPJPY	1:30:00 PM	147.769	147.793			N/A
10/8/2018	GBPJPY	3:30:00 PM	147.599	147.563			N/A
10/8/2018	GBPMXN	9:30:00 AM	24.5886	24.6002			N/A
10/8/2018	GBPMXN	11:30:00 AM	24.5999	24.6071			N/A
10/8/2018	GBPMXN	1:30:00 PM	24.5317	24.5446			N/A
10/8/2018	GBPMXN	3:30:00 PM	24.6755	24.6825			N/A
10/8/2018	GBPNOK	9:30:00 AM	10.8085	10.8194			N/A
10/8/2018	GBPNOK	11:30:00 AM	10.8211	10.8303			N/A
10/8/2018	GBPNOK	1:30:00 PM	10.7906	10.8023			N/A
10/8/2018	GBPNOK	3:30:00 PM	10.8193	10.8292			N/A
10/8/2018	GBPNZD	9:30:00 AM	2.03011	2.03079			N/A
10/8/2018	GBPNZD	11:30:00 AM	2.02545	2.02571			N/A
10/8/2018	GBPNZD	1:30:00 PM	2.02055	2.02113			N/A
10/8/2018	GBPNZD	3:30:00 PM	2.02434	2.02466			N/A
10/8/2018	GBPPLN	9:30:00 AM	4.8953	4.8974			N/A
10/8/2018	GBPPLN	11:30:00 AM	4.9033	4.9046			N/A
10/8/2018	GBPPLN	1:30:00 PM	4.8911	4.892			N/A
10/8/2018	GBPPLN	3:30:00 PM	4.9055	4.9066			N/A
10/8/2018	GBPSEK	9:30:00 AM	11.8657	11.8746			N/A
10/8/2018	GBPSEK	11:30:00 AM	11.8908	11.8973			N/A
10/8/2018	GBPSEK	1:30:00 PM	11.8563	11.8636			N/A
10/8/2018	GBPSEK	3:30:00 PM	11.8946	11.9019			N/A
10/8/2018	GBPSGD	9:30:00 AM	1.8107	1.8114			N/A
10/8/2018	GBPSGD	11:30:00 AM	1.8087	1.8092			N/A
10/8/2018	GBPSGD	1:30:00 PM	1.8052	1.806			N/A
10/8/2018	GBPSGD	3:30:00 PM	1.8075	1.808			N/A
10/8/2018	GBPUSD	9:30:00 AM	1.30746	1.30747			N/A
10/8/2018	GBPUSD	11:30:00 AM	1.30619	1.30587			N/A
10/8/2018	GBPUSD	1:30:00 PM	1.30366	1.30362			N/A
10/8/2018	GBPUSD	3:30:00 PM	1.3051	1.30493			N/A
10/8/2018	GBPZAR	9:30:00 AM	19.468	19.4817			N/A
10/8/2018	GBPZAR	11:30:00 AM	19.4086	19.4325			N/A
10/8/2018	GBPZAR	1:30:00 PM	19.3796	19.407			N/A
10/8/2018	GBPZAR	3:30:00 PM	19.4529	19.4715			N/A
10/8/2018	GOLD	9:30:00 AM	1195.67	1195.98			N/A
10/8/2018	GOLD	11:30:00 AM	1194.58	1194.81			N/A
10/8/2018	GOLD	1:30:00 PM	1193.41	1193.65			N/A
10/8/2018	GOLD	3:30:00 PM	1186.13	1185.92			N/A
10/8/2018	HKDJPY	9:30:00 AM					N/A
10/8/2018	HKDJPY	11:30:00 AM					N/A
10/8/2018	HKDJPY	1:30:00 PM					N/A
10/8/2018	HKDJPY	3:30:00 PM	14.45	14.46			N/A
10/8/2018	HUFJPY	9:30:00 AM	0.4025	0.4029			N/A
10/8/2018	HUFJPY	11:30:00 AM	0.4002	0.4005			N/A
10/8/2018	HUFJPY	1:30:00 PM					N/A
10/8/2018	HUFJPY	3:30:00 PM	0.3991	0.3995			N/A
10/8/2018	MXNJPY	9:30:00 AM					N/A
10/8/2018	MXNJPY	11:30:00 AM	6.02	6.03			N/A
10/8/2018	MXNJPY	1:30:00 PM					N/A

10/8/2018	MXNJPY	3:30:00 PM					N/A
10/8/2018	NOKJPY	9:30:00 AM					N/A
10/8/2018	NOKJPY	11:30:00 AM	13.67	13.71			N/A
10/8/2018	NOKJPY	1:30:00 PM					N/A
10/8/2018	NOKJPY	3:30:00 PM	13.63	13.66			N/A
10/8/2018	NZDCAD	9:30:00 AM	0.83614	0.83672			N/A
10/8/2018	NZDCAD	11:30:00 AM	0.83797	0.83868			N/A
10/8/2018	NZDCAD	1:30:00 PM	0.83823	0.83883			N/A
10/8/2018	NZDCAD	3:30:00 PM	0.83726	0.83794			N/A
10/8/2018	NZDCHF	9:30:00 AM	0.63807	0.63869			N/A
10/8/2018	NZDCHF	11:30:00 AM	0.63934	0.63996			N/A
10/8/2018	NZDCHF	1:30:00 PM	0.6402	0.64093			N/A
10/8/2018	NZDCHF	3:30:00 PM	0.64036	0.64094			N/A
10/8/2018	NZDCZK	9:30:00 AM	14.421	14.433			N/A
10/8/2018	NZDCZK	11:30:00 AM	14.452	14.463			N/A
10/8/2018	NZDCZK	1:30:00 PM	14.455	14.465			N/A
10/8/2018	NZDCZK	3:30:00 PM	14.465	14.477			N/A
10/8/2018	NZDDKK	9:30:00 AM					N/A
10/8/2018	NZDDKK	11:30:00 AM	4.187	4.191			N/A
10/8/2018	NZDDKK	1:30:00 PM	4.19	4.194			N/A
10/8/2018	NZDDKK	3:30:00 PM	4.192	4.196			N/A
10/8/2018	NZDHKD	9:30:00 AM	5.0372	5.0398			N/A
10/8/2018	NZDHKD	11:30:00 AM	5.0454	5.0478			N/A
10/8/2018	NZDHKD	1:30:00 PM	5.0485	5.0514			N/A
10/8/2018	NZDHKD	3:30:00 PM	5.0453	5.048			N/A
10/8/2018	NZDHUF	9:30:00 AM	181.87	182.14			N/A
10/8/2018	NZDHUF	11:30:00 AM	182.4	182.68			N/A
10/8/2018	NZDHUF	1:30:00 PM	182.52	182.77			N/A
10/8/2018	NZDHUF	3:30:00 PM	182.65	182.93			N/A
10/8/2018	NZDJPY	9:30:00 AM	73.247	73.311			N/A
10/8/2018	NZDJPY	11:30:00 AM	73.035	73.087			N/A
10/8/2018	NZDJPY	1:30:00 PM	73.091	73.163			N/A
10/8/2018	NZDJPY	3:30:00 PM	72.884	72.922			N/A
10/8/2018	NZDMXN	9:30:00 AM	12.1089	12.1137			N/A
10/8/2018	NZDMXN	11:30:00 AM	12.1421	12.1465			N/A
10/8/2018	NZDMXN	1:30:00 PM	12.1392	12.1427			N/A
10/8/2018	NZDMXN	3:30:00 PM	12.1881	12.1908			N/A
10/8/2018	NZDNOK	9:30:00 AM	5.322	5.3257			N/A
10/8/2018	NZDNOK	11:30:00 AM	5.3408	5.3439			N/A
10/8/2018	NZDNOK	1:30:00 PM	5.3387	5.3422			N/A
10/8/2018	NZDNOK	3:30:00 PM	5.343	5.3466			N/A
10/8/2018	NZDPLN	9:30:00 AM	2.4103	2.4116			N/A
10/8/2018	NZDPLN	11:30:00 AM	2.419	2.4202			N/A
10/8/2018	NZDPLN	1:30:00 PM	2.4193	2.4201			N/A
10/8/2018	NZDPLN	3:30:00 PM	2.4219	2.4234			N/A
10/8/2018	NZDSEK	9:30:00 AM	5.8409	5.8466			N/A
10/8/2018	NZDSEK	11:30:00 AM	5.8658	5.8726			N/A
10/8/2018	NZDSEK	1:30:00 PM	5.8642	5.8692			N/A
10/8/2018	NZDSEK	3:30:00 PM	5.8727	5.8782			N/A
10/8/2018	NZDSGD	9:30:00 AM	0.8918	0.8925			N/A

10/8/2018	NZDSGD	11:30:00 AM	0.8929	0.8936			N/A
10/8/2018	NZDSGD	1:30:00 PM	0.8932	0.8939			N/A
10/8/2018	NZDSGD	3:30:00 PM	0.8928	0.8934			N/A
10/8/2018	NZDUSD	9:30:00 AM	0.64363	0.64376			N/A
10/8/2018	NZDUSD	11:30:00 AM	0.6445	0.6446			N/A
10/8/2018	NZDUSD	1:30:00 PM	0.64477	0.64495			N/A
10/8/2018	NZDUSD	3:30:00 PM	0.64427	0.64441			N/A
10/8/2018	NZDZAR	9:30:00 AM	9.5872	9.585			N/A
10/8/2018	NZDZAR	11:30:00 AM	9.5827	9.5804			N/A
10/8/2018	NZDZAR	1:30:00 PM	9.59	9.5922			N/A
10/8/2018	NZDZAR	3:30:00 PM	9.6087	9.6074			N/A
10/8/2018	SEKJPY	9:30:00 AM	12.54	12.55			N/A
10/8/2018	SEKJPY	11:30:00 AM	12.45	12.46			N/A
10/8/2018	SEKJPY	1:30:00 PM					N/A
10/8/2018	SEKJPY	3:30:00 PM	12.4	12.42			N/A
10/8/2018	SGDJPY	9:30:00 AM	82.13	82.16			N/A
10/8/2018	SGDJPY	11:30:00 AM	81.79	81.8			N/A
10/8/2018	SGDJPY	1:30:00 PM	81.81	81.85			N/A
10/8/2018	SGDJPY	3:30:00 PM	81.63	81.63			N/A
10/8/2018	SILVER	9:30:00 AM	14.25	14.64			N/A
10/8/2018	SILVER	11:30:00 AM	14.23	14.62			N/A
10/8/2018	SILVER	1:30:00 PM	14.25	14.63			N/A
10/8/2018	SILVER	3:30:00 PM	14.1	14.48			N/A
10/8/2018	USDCAD	9:30:00 AM	1.29902	1.29899			N/A
10/8/2018	USDCAD	11:30:00 AM	1.30017	1.30019			N/A
10/8/2018	USDCAD	1:30:00 PM	1.29984	1.29979			N/A
10/8/2018	USDCAD	3:30:00 PM	1.29947	1.29943			N/A
10/8/2018	USDCHF	9:30:00 AM	0.99136	0.99142			N/A
10/8/2018	USDCHF	11:30:00 AM	0.9921	0.99202			N/A
10/8/2018	USDCHF	1:30:00 PM	0.99289	0.99304			N/A
10/8/2018	USDCHF	3:30:00 PM	0.99362	0.99412			N/A
10/8/2018	USDCZK	9:30:00 AM	22.398	22.42			N/A
10/8/2018	USDCZK	11:30:00 AM	22.417	22.438			N/A
10/8/2018	USDCZK	1:30:00 PM	22.411	22.431			N/A
10/8/2018	USDCZK	3:30:00 PM	22.443	22.466			N/A
10/8/2018	USDDKK	9:30:00 AM	6.4865	6.4915			N/A
10/8/2018	USDDKK	11:30:00 AM	6.498	6.502			N/A
10/8/2018	USDDKK	1:30:00 PM	6.4994	6.5043			N/A
10/8/2018	USDDKK	3:30:00 PM	6.5078	6.5123			N/A
10/8/2018	USDHKD	9:30:00 AM	7.8271	7.8275			N/A
10/8/2018	USDHKD	11:30:00 AM	7.8291	7.8295			N/A
10/8/2018	USDHKD	1:30:00 PM	7.8299	7.8304			N/A
10/8/2018	USDHKD	3:30:00 PM	7.8304	7.8308			N/A
10/8/2018	USDHUF	9:30:00 AM	282.55	282.96			N/A
10/8/2018	USDHUF	11:30:00 AM	283.02	283.44			N/A
10/8/2018	USDHUF	1:30:00 PM	283.02	283.47			N/A
10/8/2018	USDHUF	3:30:00 PM	283.47	283.89			N/A
10/8/2018	USDJPY	9:30:00 AM	113.813	113.824			N/A
10/8/2018	USDJPY	11:30:00 AM	113.336	113.329			N/A
10/8/2018	USDJPY	1:30:00 PM	113.374	113.381			N/A

10/8/2018	USDJPY	3:30:00 PM	113.142	113.094			N/A
10/8/2018	USDMXN	9:30:00 AM	18.817	18.818			N/A
10/8/2018	USDMXN	11:30:00 AM	18.841	18.846			N/A
10/8/2018	USDMXN	1:30:00 PM	18.829	18.83			N/A
10/8/2018	USDMXN	3:30:00 PM	18.916	18.917			N/A
10/8/2018	USDNOK	9:30:00 AM	8.2678	8.2757			N/A
10/8/2018	USDNOK	11:30:00 AM	8.2869	8.2934			N/A
10/8/2018	USDNOK	1:30:00 PM	8.2785	8.2868			N/A
10/8/2018	USDNOK	3:30:00 PM	8.291	8.3001			N/A
10/8/2018	USDPLN	9:30:00 AM	3.7443	3.7455			N/A
10/8/2018	USDPLN	11:30:00 AM	3.7545	3.7553			N/A
10/8/2018	USDPLN	1:30:00 PM	3.7519	3.7524			N/A
10/8/2018	USDPLN	3:30:00 PM	3.7593	3.7602			N/A
10/8/2018	USDRUR	9:30:00 AM					N/A
10/8/2018	USDRUR	11:30:00 AM	66.805	67.192			N/A
10/8/2018	USDRUR	1:30:00 PM	66.673	67.059			N/A
10/8/2018	USDRUR	3:30:00 PM	66.677	67.052			N/A
10/8/2018	USDSEK	9:30:00 AM	9.0754	9.0793			N/A
10/8/2018	USDSEK	11:30:00 AM	9.1039	9.1079			N/A
10/8/2018	USDSEK	1:30:00 PM	9.0952	9.0975			N/A
10/8/2018	USDSEK	3:30:00 PM	9.1149	9.1188			N/A
10/8/2018	USDSGD	9:30:00 AM	1.3849	1.3852			N/A
10/8/2018	USDSGD	11:30:00 AM	1.3849	1.3852			N/A
10/8/2018	USDSGD	1:30:00 PM	1.3848	1.3852			N/A
10/8/2018	USDSGD	3:30:00 PM	1.3851	1.3853			N/A
10/8/2018	USDZAR	9:30:00 AM	14.8936	14.8985			N/A
10/8/2018	USDZAR	11:30:00 AM	14.8639	14.8741			N/A
10/8/2018	USDZAR	1:30:00 PM	14.8686	14.8834			N/A
10/8/2018	USDZAR	3:30:00 PM	14.9091	14.9199			N/A
10/8/2018	XAUUSD	9:30:00 AM	1195.68	1195.98			N/A
10/8/2018	XAUUSD	11:30:00 AM	1194.57	1194.81			N/A
10/8/2018	XAUUSD	1:30:00 PM	1193.4	1193.65			N/A
10/8/2018	XAUUSD	3:30:00 PM	1186.12	1185.91			N/A
10/8/2018	ZARJPY	9:30:00 AM	7.6	7.63			N/A
10/8/2018	ZARJPY	11:30:00 AM	7.58	7.61			N/A
10/8/2018	ZARJPY	1:30:00 PM					N/A
10/8/2018	ZARJPY	3:30:00 PM	7.51	7.55			N/A
10/9/2018	#AA	9:30:00 AM					N/A
10/9/2018	#AA	11:30:00 AM					N/A
10/9/2018	#AA	1:30:00 PM					N/A
10/9/2018	#AA	3:30:00 PM					N/A
10/9/2018	#AABA	9:30:00 AM					N/A
10/9/2018	#AABA	11:30:00 AM					N/A
10/9/2018	#AABA	1:30:00 PM					N/A
10/9/2018	#AABA	3:30:00 PM					N/A
10/9/2018	#AAL	9:30:00 AM					N/A
10/9/2018	#AAL	11:30:00 AM					N/A
10/9/2018	#AAL	1:30:00 PM					N/A
10/9/2018	#AAL	3:30:00 PM					N/A
10/9/2018	#AAPL	9:30:00 AM					N/A

10/9/2018	#AAPL	11:30:00 AM					N/A
10/9/2018	#AAPL	1:30:00 PM					N/A
10/9/2018	#AAPL	3:30:00 PM					N/A
10/9/2018	#ADBE	9:30:00 AM					N/A
10/9/2018	#ADBE	11:30:00 AM					N/A
10/9/2018	#ADBE	1:30:00 PM					N/A
10/9/2018	#ADBE	3:30:00 PM					N/A
10/9/2018	#AIG	9:30:00 AM					N/A
10/9/2018	#AIG	11:30:00 AM					N/A
10/9/2018	#AIG	1:30:00 PM					N/A
10/9/2018	#AIG	3:30:00 PM					N/A
10/9/2018	#AMD	9:30:00 AM					N/A
10/9/2018	#AMD	11:30:00 AM					N/A
10/9/2018	#AMD	1:30:00 PM					N/A
10/9/2018	#AMD	3:30:00 PM					N/A
10/9/2018	#AMZN	9:30:00 AM					N/A
10/9/2018	#AMZN	11:30:00 AM					N/A
10/9/2018	#AMZN	1:30:00 PM					N/A
10/9/2018	#AMZN	3:30:00 PM					N/A
10/9/2018	#AXP	9:30:00 AM					N/A
10/9/2018	#AXP	11:30:00 AM					N/A
10/9/2018	#AXP	1:30:00 PM					N/A
10/9/2018	#AXP	3:30:00 PM					N/A
10/9/2018	#BA	9:30:00 AM					N/A
10/9/2018	#BA	11:30:00 AM					N/A
10/9/2018	#BA	1:30:00 PM					N/A
10/9/2018	#BA	3:30:00 PM					N/A
10/9/2018	#BABA	9:30:00 AM					N/A
10/9/2018	#BABA	11:30:00 AM					N/A
10/9/2018	#BABA	1:30:00 PM					N/A
10/9/2018	#BABA	3:30:00 PM					N/A
10/9/2018	#BAC	9:30:00 AM					N/A
10/9/2018	#BAC	11:30:00 AM					N/A
10/9/2018	#BAC	1:30:00 PM					N/A
10/9/2018	#BAC	3:30:00 PM					N/A
10/9/2018	#BARC	9:30:00 AM					N/A
10/9/2018	#BARC	11:30:00 AM					N/A
10/9/2018	#BARC	1:30:00 PM					N/A
10/9/2018	#BARC	3:30:00 PM					N/A
10/9/2018	#BHP	9:30:00 AM					N/A
10/9/2018	#BHP	11:30:00 AM					N/A
10/9/2018	#BHP	1:30:00 PM					N/A
10/9/2018	#BHP	3:30:00 PM					N/A
10/9/2018	#BIDU	9:30:00 AM					N/A
10/9/2018	#BIDU	11:30:00 AM					N/A
10/9/2018	#BIDU	1:30:00 PM					N/A
10/9/2018	#BIDU	3:30:00 PM					N/A
10/9/2018	#BK	9:30:00 AM					N/A
10/9/2018	#BK	11:30:00 AM					N/A
10/9/2018	#BK	1:30:00 PM					N/A

10/9/2018	#BK	3:30:00 PM					N/A
10/9/2018	#BLT	9:30:00 AM					N/A
10/9/2018	#BLT	11:30:00 AM					N/A
10/9/2018	#BLT	1:30:00 PM					N/A
10/9/2018	#BLT	3:30:00 PM					N/A
10/9/2018	#BP	9:30:00 AM					N/A
10/9/2018	#BP	11:30:00 AM					N/A
10/9/2018	#BP	1:30:00 PM					N/A
10/9/2018	#BP	3:30:00 PM					N/A
10/9/2018	#BTA	9:30:00 AM					N/A
10/9/2018	#BTA	11:30:00 AM					N/A
10/9/2018	#BTA	1:30:00 PM					N/A
10/9/2018	#BTA	3:30:00 PM					N/A
10/9/2018	#C	9:30:00 AM					N/A
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10/9/2018	AUDCZK	3:30:00 PM	15.893	15.909			N/A
10/9/2018	AUDDKK	9:30:00 AM	4.5977	4.6016			N/A
10/9/2018	AUDDKK	11:30:00 AM	4.599	4.6033			N/A
10/9/2018	AUDDKK	1:30:00 PM	4.5988	4.6036			N/A
10/9/2018	AUDDKK	3:30:00 PM	4.5973	4.6018			N/A
10/9/2018	AUDHKD	9:30:00 AM	5.5366	5.5389			N/A
10/9/2018	AUDHKD	11:30:00 AM	5.5359	5.5393			N/A
10/9/2018	AUDHKD	1:30:00 PM	5.5268	5.5291			N/A
10/9/2018	AUDHKD	3:30:00 PM	5.5298	5.5337			N/A
10/9/2018	AUDHUF	9:30:00 AM	200.34	200.53			N/A
10/9/2018	AUDHUF	11:30:00 AM	200.65	200.88			N/A
10/9/2018	AUDHUF	1:30:00 PM	200.61	200.85			N/A
10/9/2018	AUDHUF	3:30:00 PM	200.01	200.22			N/A
10/9/2018	AUDJPY	9:30:00 AM	80.109	80.138			N/A
10/9/2018	AUDJPY	11:30:00 AM	79.987	80.051			N/A
10/9/2018	AUDJPY	1:30:00 PM	79.855	79.914			N/A
10/9/2018	AUDJPY	3:30:00 PM	79.975	80.031			N/A
10/9/2018	AUDMXN	9:30:00 AM	13.3954	13.4029			N/A
10/9/2018	AUDMXN	11:30:00 AM	13.4194	13.4271			N/A
10/9/2018	AUDMXN	1:30:00 PM	13.4262	13.434			N/A
10/9/2018	AUDMXN	3:30:00 PM	13.4373	13.4438			N/A
10/9/2018	AUDNOK	9:30:00 AM	5.8577	5.8615			N/A
10/9/2018	AUDNOK	11:30:00 AM	5.8489	5.8538			N/A
10/9/2018	AUDNOK	1:30:00 PM	5.8457	5.8515			N/A
10/9/2018	AUDNOK	3:30:00 PM	5.8528	5.8571			N/A
10/9/2018	AUDNZD	9:30:00 AM	1.09767	1.09847			N/A
10/9/2018	AUDNZD	11:30:00 AM	1.0976	1.09842			N/A
10/9/2018	AUDNZD	1:30:00 PM	1.09676	1.0976			N/A
10/9/2018	AUDNZD	3:30:00 PM	1.09677	1.0977			N/A
10/9/2018	AUDPLN	9:30:00 AM	2.6601	2.6624			N/A
10/9/2018	AUDPLN	11:30:00 AM	2.6622	2.6654			N/A
10/9/2018	AUDPLN	1:30:00 PM	2.6629	2.6656			N/A
10/9/2018	AUDPLN	3:30:00 PM	2.6578	2.6608			N/A
10/9/2018	AUDSEK	9:30:00 AM	6.4437	6.4457			N/A
10/9/2018	AUDSEK	11:30:00 AM	6.4271	6.4307			N/A
10/9/2018	AUDSEK	1:30:00 PM	6.4385	6.4419			N/A

10/9/2018	AUDSEK	3:30:00 PM	6.443	6.4457			N/A
10/9/2018	AUDSGD	9:30:00 AM	0.9794	0.9794			N/A
10/9/2018	AUDSGD	11:30:00 AM	0.9799	0.9802			N/A
10/9/2018	AUDSGD	1:30:00 PM	0.9785	0.9788			N/A
10/9/2018	AUDSGD	3:30:00 PM	0.979	0.9793			N/A
10/9/2018	AUDUSD	9:30:00 AM	0.70745	0.70727			N/A
10/9/2018	AUDUSD	11:30:00 AM	0.70716	0.70726			N/A
10/9/2018	AUDUSD	1:30:00 PM	0.70587	0.70592			N/A
10/9/2018	AUDUSD	3:30:00 PM	0.70635	0.70646			N/A
10/9/2018	AUDZAR	9:30:00 AM	10.525	10.5303			N/A
10/9/2018	AUDZAR	11:30:00 AM	10.524	10.5317			N/A
10/9/2018	AUDZAR	1:30:00 PM	10.5998	10.6101			N/A
10/9/2018	AUDZAR	3:30:00 PM	10.5116	10.5113			N/A
10/9/2018	CADCHF	9:30:00 AM	0.767	0.76761			N/A
10/9/2018	CADCHF	11:30:00 AM	0.76622	0.7667			N/A
10/9/2018	CADCHF	1:30:00 PM	0.76486	0.76556			N/A
10/9/2018	CADCHF	3:30:00 PM	0.76538	0.76609			N/A
10/9/2018	CADCZK	9:30:00 AM	17.348	17.359			N/A
10/9/2018	CADCZK	11:30:00 AM	17.34	17.354			N/A
10/9/2018	CADCZK	1:30:00 PM	17.359	17.375			N/A
10/9/2018	CADCZK	3:30:00 PM	17.331	17.346			N/A
10/9/2018	CADDDKK	9:30:00 AM	5.016	5.019			N/A
10/9/2018	CADDDKK	11:30:00 AM					N/A
10/9/2018	CADDDKK	1:30:00 PM					N/A
10/9/2018	CADDDKK	3:30:00 PM					N/A
10/9/2018	CADHKD	9:30:00 AM	6.0395	6.0426			N/A
10/9/2018	CADHKD	11:30:00 AM	6.0348	6.0384			N/A
10/9/2018	CADHKD	1:30:00 PM	6.0272	6.0305			N/A
10/9/2018	CADHKD	3:30:00 PM	6.0301	6.0339			N/A
10/9/2018	CADHUF	9:30:00 AM	218.62	218.7			N/A
10/9/2018	CADHUF	11:30:00 AM	218.8	218.93			N/A
10/9/2018	CADHUF	1:30:00 PM	218.83	218.99			N/A
10/9/2018	CADHUF	3:30:00 PM	218.13	218.26			N/A
10/9/2018	CADJPY	9:30:00 AM	87.36	87.401			N/A
10/9/2018	CADJPY	11:30:00 AM	87.19	87.24			N/A
10/9/2018	CADJPY	1:30:00 PM	87.074	87.138			N/A
10/9/2018	CADJPY	3:30:00 PM	87.184	87.249			N/A
10/9/2018	CADMXN	9:30:00 AM	14.6141	14.6244			N/A
10/9/2018	CADMXN	11:30:00 AM	14.6287	14.6387			N/A
10/9/2018	CADMXN	1:30:00 PM	14.6445	14.6522			N/A
10/9/2018	CADMXN	3:30:00 PM	14.6516	14.6605			N/A
10/9/2018	CADNOK	9:30:00 AM	6.391	6.3941			N/A
10/9/2018	CADNOK	11:30:00 AM	6.3774	6.381			N/A
10/9/2018	CADNOK	1:30:00 PM	6.3757	6.3806			N/A
10/9/2018	CADNOK	3:30:00 PM	6.3827	6.3855			N/A
10/9/2018	CADPLN	9:30:00 AM	2.9012	2.9031			N/A
10/9/2018	CADPLN	11:30:00 AM	2.9022	2.9041			N/A
10/9/2018	CADPLN	1:30:00 PM	2.9039	2.9058			N/A
10/9/2018	CADPLN	3:30:00 PM	2.8981	2.9			N/A
10/9/2018	CADSEK	9:30:00 AM	7.028	7.0299			N/A

10/9/2018	CADSEK	11:30:00 AM	7.0057	7.0089			N/A
10/9/2018	CADSEK	1:30:00 PM	7.0202	7.0241			N/A
10/9/2018	CADSEK	3:30:00 PM	7.0248	7.0269			N/A
10/9/2018	CADSGD	9:30:00 AM	1.068	1.0683			N/A
10/9/2018	CADSGD	11:30:00 AM	1.0681	1.0684			N/A
10/9/2018	CADSGD	1:30:00 PM	1.0673	1.0677			N/A
10/9/2018	CADSGD	3:30:00 PM	1.0675	1.0678			N/A
10/9/2018	CADZAR	9:30:00 AM	11.4796	11.4858			N/A
10/9/2018	CADZAR	11:30:00 AM	11.4645	11.4735			N/A
10/9/2018	CADZAR	1:30:00 PM	11.5519	11.5653			N/A
10/9/2018	CADZAR	3:30:00 PM	11.4561	11.4585			N/A
10/9/2018	CHFCZK	9:30:00 AM	22.614	22.621			N/A
10/9/2018	CHFCZK	11:30:00 AM	22.628	22.64			N/A
10/9/2018	CHFCZK	1:30:00 PM	22.69	22.706			N/A
10/9/2018	CHFCZK	3:30:00 PM	22.636	22.65			N/A
10/9/2018	CHFDKK	9:30:00 AM	6.538	6.539			N/A
10/9/2018	CHFDKK	11:30:00 AM	6.542	6.545			N/A
10/9/2018	CHFDKK	1:30:00 PM					N/A
10/9/2018	CHFDKK	3:30:00 PM	6.546	6.55			N/A
10/9/2018	CHFHKD	9:30:00 AM	7.8724	7.8754			N/A
10/9/2018	CHFHKD	11:30:00 AM	7.8753	7.8774			N/A
10/9/2018	CHFHKD	1:30:00 PM	7.8771	7.8797			N/A
10/9/2018	CHFHKD	3:30:00 PM	7.8758	7.8796			N/A
10/9/2018	CHFHUF	9:30:00 AM	284.81	285.13			N/A
10/9/2018	CHFHUF	11:30:00 AM	285.4	285.74			N/A
10/9/2018	CHFHUF	1:30:00 PM	285.92	286.3			N/A
10/9/2018	CHFHUF	3:30:00 PM	284.79	285.12			N/A
10/9/2018	CHFJPY	9:30:00 AM	113.815	113.861			N/A
10/9/2018	CHFJPY	11:30:00 AM	113.71	113.763			N/A
10/9/2018	CHFJPY	1:30:00 PM	113.745	113.807			N/A
10/9/2018	CHFJPY	3:30:00 PM	113.817	113.872			N/A
10/9/2018	CHFMXN	9:30:00 AM	19.0439	19.0584			N/A
10/9/2018	CHFMXN	11:30:00 AM	19.0875	19.0981			N/A
10/9/2018	CHFMXN	1:30:00 PM	19.1364	19.1481			N/A
10/9/2018	CHFMXN	3:30:00 PM	19.1331	19.1445			N/A
10/9/2018	CHFNOK	9:30:00 AM	8.3304	8.3351			N/A
10/9/2018	CHFNOK	11:30:00 AM	8.3209	8.3278			N/A
10/9/2018	CHFNOK	1:30:00 PM	8.3322	8.3402			N/A
10/9/2018	CHFNOK	3:30:00 PM	8.335	8.3411			N/A
10/9/2018	CHFPLN	9:30:00 AM	3.7815	3.7837			N/A
10/9/2018	CHFPLN	11:30:00 AM	3.7865	3.789			N/A
10/9/2018	CHFPLN	1:30:00 PM	3.7947	3.7974			N/A
10/9/2018	CHFPLN	3:30:00 PM	3.7845	3.7873			N/A
10/9/2018	CHFSEK	9:30:00 AM	9.1616	9.1634			N/A
10/9/2018	CHFSEK	11:30:00 AM	9.1432	9.1453			N/A
10/9/2018	CHFSEK	1:30:00 PM	9.1768	9.1805			N/A
10/9/2018	CHFSEK	3:30:00 PM	9.176	9.1781			N/A
10/9/2018	CHFSGD	9:30:00 AM	1.392	1.3925			N/A
10/9/2018	CHFSGD	11:30:00 AM	1.3936	1.3937			N/A
10/9/2018	CHFSGD	1:30:00 PM	1.3943	1.3947			N/A

10/9/2018	CHFSGD	3:30:00 PM	1.3938	1.3942			N/A
10/9/2018	CHFZAR	9:30:00 AM	14.9662	14.9666			N/A
10/9/2018	CHFZAR	11:30:00 AM	14.9607	14.9686			N/A
10/9/2018	CHFZAR	1:30:00 PM	15.1008	15.1104			N/A
10/9/2018	CHFZAR	3:30:00 PM	14.9665	14.9612			N/A
10/9/2018	CZKJPY	9:30:00 AM	5.036	5.037			N/A
10/9/2018	CZKJPY	11:30:00 AM	5.027	5.03			N/A
10/9/2018	CZKJPY	1:30:00 PM					N/A
10/9/2018	CZKJPY	3:30:00 PM	5.03	5.033			N/A
10/9/2018	DKKJPY	9:30:00 AM	17.43	17.43			N/A
10/9/2018	DKKJPY	11:30:00 AM					N/A
10/9/2018	DKKJPY	1:30:00 PM					N/A
10/9/2018	DKKJPY	3:30:00 PM	17.4	17.41			N/A
10/9/2018	EURAUD	9:30:00 AM	1.62185	1.62184			N/A
10/9/2018	EURAUD	11:30:00 AM	1.62105	1.62137			N/A
10/9/2018	EURAUD	1:30:00 PM	1.62106	1.62146			N/A
10/9/2018	EURAUD	3:30:00 PM	1.62177	1.62212			N/A
10/9/2018	EURCAD	9:30:00 AM	1.48743	1.48769			N/A
10/9/2018	EURCAD	11:30:00 AM	1.48762	1.48814			N/A
10/9/2018	EURCAD	1:30:00 PM	1.48691	1.48769			N/A
10/9/2018	EURCAD	3:30:00 PM	1.4878	1.4885			N/A
10/9/2018	EURCHF	9:30:00 AM	1.14119	1.14086			N/A
10/9/2018	EURCHF	11:30:00 AM	1.14012	1.13999			N/A
10/9/2018	EURCHF	1:30:00 PM	1.13773	1.1378			N/A
10/9/2018	EURCHF	3:30:00 PM	1.13895	1.13951			N/A
10/9/2018	EURCZK	9:30:00 AM	25.79	25.825			N/A
10/9/2018	EURCZK	11:30:00 AM	25.784	25.821			N/A
10/9/2018	EURCZK	1:30:00 PM	25.807	25.842			N/A
10/9/2018	EURCZK	3:30:00 PM	25.778	25.814			N/A
10/9/2018	EURDKK	9:30:00 AM	7.4588	7.4597			N/A
10/9/2018	EURDKK	11:30:00 AM	7.4585	7.4595			N/A
10/9/2018	EURDKK	1:30:00 PM	7.4585	7.4598			N/A
10/9/2018	EURDKK	3:30:00 PM	7.4591	7.4603			N/A
10/9/2018	EURGBP	9:30:00 AM	0.87686	0.87679	10	10	N/A
10/9/2018	EURGBP	11:30:00 AM	0.87867	0.8786			N/A
10/9/2018	EURGBP	1:30:00 PM	0.87714	0.87706			N/A
10/9/2018	EURGBP	3:30:00 PM	0.87658	0.87668			N/A
10/9/2018	EURHKD	9:30:00 AM	8.9831	8.9829			N/A
10/9/2018	EURHKD	11:30:00 AM	8.9763	8.9804			N/A
10/9/2018	EURHKD	1:30:00 PM	8.9605	8.9641			N/A
10/9/2018	EURHKD	3:30:00 PM	8.9708	8.9755			N/A
10/9/2018	EURHUF	9:30:00 AM	324.89	325.57			N/A
10/9/2018	EURHUF	11:30:00 AM	325.2	325.89			N/A
10/9/2018	EURHUF	1:30:00 PM	325.18	325.91			N/A
10/9/2018	EURHUF	3:30:00 PM	324.31	325.03			N/A
10/9/2018	EURJPY	9:30:00 AM	129.967	129.895			N/A
10/9/2018	EURJPY	11:30:00 AM	129.711	129.693			N/A
10/9/2018	EURJPY	1:30:00 PM	129.493	129.487			N/A
10/9/2018	EURJPY	3:30:00 PM	129.742	129.724			N/A
10/9/2018	EURMXN	9:30:00 AM	21.7328	21.7466			N/A

10/9/2018	EURMXN	11:30:00 AM	21.7606	21.7755			N/A
10/9/2018	EURMXN	1:30:00 PM	21.7752	21.7876			N/A
10/9/2018	EURMXN	3:30:00 PM	21.8007	21.8106			N/A
10/9/2018	EURNOK	9:30:00 AM	9.5015	9.512			N/A
10/9/2018	EURNOK	11:30:00 AM	9.4839	9.4964			N/A
10/9/2018	EURNOK	1:30:00 PM	9.4783	9.4911			N/A
10/9/2018	EURNOK	3:30:00 PM	9.4938	9.505			N/A
10/9/2018	EURNZD	9:30:00 AM	1.78105	1.78135			N/A
10/9/2018	EURNZD	11:30:00 AM	1.78004	1.78075			N/A
10/9/2018	EURNZD	1:30:00 PM	1.77865	1.7794			N/A
10/9/2018	EURNZD	3:30:00 PM	1.7795	1.78027			N/A
10/9/2018	EURPLN	9:30:00 AM	4.3146	4.3172			N/A
10/9/2018	EURPLN	11:30:00 AM	4.3168	4.3198			N/A
10/9/2018	EURPLN	1:30:00 PM	4.3179	4.3203			N/A
10/9/2018	EURPLN	3:30:00 PM	4.3113	4.3146			N/A
10/9/2018	EURRUR	9:30:00 AM					N/A
10/9/2018	EURRUR	11:30:00 AM	75.94	76.364			N/A
10/9/2018	EURRUR	1:30:00 PM	76.074	76.479			N/A
10/9/2018	EURRUR	3:30:00 PM	76.101	76.541			N/A
10/9/2018	EURSEK	9:30:00 AM	10.4508	10.4544			N/A
10/9/2018	EURSEK	11:30:00 AM	10.4214	10.4263			N/A
10/9/2018	EURSEK	1:30:00 PM	10.4395	10.4447			N/A
10/9/2018	EURSEK	3:30:00 PM	10.4516	10.4556			N/A
10/9/2018	EURSGD	9:30:00 AM	1.5884	1.5887			N/A
10/9/2018	EURSGD	11:30:00 AM	1.5886	1.5892			N/A
10/9/2018	EURSGD	1:30:00 PM	1.5862	1.587			N/A
10/9/2018	EURSGD	3:30:00 PM	1.5877	1.5884			N/A
10/9/2018	EURUSD	9:30:00 AM	1.14715	1.14654			N/A
10/9/2018	EURUSD	11:30:00 AM	1.14611	1.14608			N/A
10/9/2018	EURUSD	1:30:00 PM	1.14405	1.14395			N/A
10/9/2018	EURUSD	3:30:00 PM	1.14523	1.1453			N/A
10/9/2018	EURZAR	9:30:00 AM	17.0796	17.0805			N/A
10/9/2018	EURZAR	11:30:00 AM	17.0622	17.0692			N/A
10/9/2018	EURZAR	1:30:00 PM	17.1846	17.1973			N/A
10/9/2018	EURZAR	3:30:00 PM	17.0504	17.0459			N/A
10/9/2018	GBPAUD	9:30:00 AM	1.84941	1.84979			N/A
10/9/2018	GBPAUD	11:30:00 AM	1.84483	1.84528			N/A
10/9/2018	GBPAUD	1:30:00 PM	1.84807	1.84838			N/A
10/9/2018	GBPAUD	3:30:00 PM	1.84974	1.8503			N/A
10/9/2018	GBPCAD	9:30:00 AM	1.69569	1.69618			N/A
10/9/2018	GBPCAD	11:30:00 AM	1.6925	1.69322			N/A
10/9/2018	GBPCAD	1:30:00 PM	1.69513	1.69536			N/A
10/9/2018	GBPCAD	3:30:00 PM	1.69689	1.69733			N/A
10/9/2018	GBPCHF	9:30:00 AM	1.30113	1.30148			N/A
10/9/2018	GBPCHF	11:30:00 AM	1.29756	1.29747			N/A
10/9/2018	GBPCHF	1:30:00 PM	1.29715	1.29729			N/A
10/9/2018	GBPCHF	3:30:00 PM	1.29921	1.29986			N/A
10/9/2018	GBPCZK	9:30:00 AM	29.418	29.432			N/A
10/9/2018	GBPCZK	11:30:00 AM	29.353	29.369			N/A
10/9/2018	GBPCZK	1:30:00 PM	29.429	29.444			N/A

10/9/2018	GBPCZK	3:30:00 PM	29.41	29.431			N/A
10/9/2018	GBPDKK	9:30:00 AM	8.504	8.514			N/A
10/9/2018	GBPDKK	11:30:00 AM	8.486	8.496			N/A
10/9/2018	GBPDKK	1:30:00 PM	8.5	8.511			N/A
10/9/2018	GBPDKK	3:30:00 PM	8.505	8.517			N/A
10/9/2018	GBPHKD	9:30:00 AM	10.242	10.2448			N/A
10/9/2018	GBPHKD	11:30:00 AM	10.2152	10.2189			N/A
10/9/2018	GBPHKD	1:30:00 PM	10.2168	10.2177			N/A
10/9/2018	GBPHKD	3:30:00 PM	10.2326	10.2369			N/A
10/9/2018	GBPHUF	9:30:00 AM	370.54	370.94			N/A
10/9/2018	GBPHUF	11:30:00 AM	370.22	370.65			N/A
10/9/2018	GBPHUF	1:30:00 PM	370.88	371.25			N/A
10/9/2018	GBPHUF	3:30:00 PM	370.09	370.44			N/A
10/9/2018	GBPJPY	9:30:00 AM	148.204	148.199			N/A
10/9/2018	GBPJPY	11:30:00 AM	147.647	147.641			N/A
10/9/2018	GBPJPY	1:30:00 PM	147.665	147.651			N/A
10/9/2018	GBPJPY	3:30:00 PM	148.001	148.013			N/A
10/9/2018	GBPMXN	9:30:00 AM	24.7792	24.7904			N/A
10/9/2018	GBPMXN	11:30:00 AM	24.7596	24.7725			N/A
10/9/2018	GBPMXN	1:30:00 PM	24.823	24.8288			N/A
10/9/2018	GBPMXN	3:30:00 PM	24.8645	24.8683			N/A
10/9/2018	GBPNOK	9:30:00 AM	10.8383	10.8467			N/A
10/9/2018	GBPNOK	11:30:00 AM	10.7966	10.8054			N/A
10/9/2018	GBPNOK	1:30:00 PM	10.8089	10.8182			N/A
10/9/2018	GBPNOK	3:30:00 PM	10.8319	10.8408			N/A
10/9/2018	GBPNZD	9:30:00 AM	2.03105	2.03149			N/A
10/9/2018	GBPNZD	11:30:00 AM	2.02604	2.02644			N/A
10/9/2018	GBPNZD	1:30:00 PM	2.02819	2.02829			N/A
10/9/2018	GBPNZD	3:30:00 PM	2.03002	2.0306			N/A
10/9/2018	GBPPLN	9:30:00 AM	4.9218	4.9221			N/A
10/9/2018	GBPPLN	11:30:00 AM	4.914	4.9154			N/A
10/9/2018	GBPPLN	1:30:00 PM	4.9242	4.9242			N/A
10/9/2018	GBPPLN	3:30:00 PM	4.919	4.9207			N/A
10/9/2018	GBPSEK	9:30:00 AM	11.9179	11.9249			N/A
10/9/2018	GBPSEK	11:30:00 AM	11.8601	11.8673			N/A
10/9/2018	GBPSEK	1:30:00 PM	11.9015	11.9088			N/A
10/9/2018	GBPSEK	3:30:00 PM	11.9197	11.9286			N/A
10/9/2018	GBPSGD	9:30:00 AM	1.8113	1.8119			N/A
10/9/2018	GBPSGD	11:30:00 AM	1.808	1.8087			N/A
10/9/2018	GBPSGD	1:30:00 PM	1.8087	1.809			N/A
10/9/2018	GBPSGD	3:30:00 PM	1.8112	1.8117			N/A
10/9/2018	GBPUSD	9:30:00 AM	1.30815	1.30779			N/A
10/9/2018	GBPUSD	11:30:00 AM	1.30456	1.30439			N/A
10/9/2018	GBPUSD	1:30:00 PM	1.30465	1.30412			N/A
10/9/2018	GBPUSD	3:30:00 PM	1.3065	1.30644			N/A
10/9/2018	GBPZAR	9:30:00 AM	19.4765	19.483			N/A
10/9/2018	GBPZAR	11:30:00 AM	19.4179	19.4305			N/A
10/9/2018	GBPZAR	1:30:00 PM	19.5905	19.6121			N/A
10/9/2018	GBPZAR	3:30:00 PM	19.447	19.4468			N/A
10/9/2018	GOLD	9:30:00 AM	1188.46	1188.62			N/A

10/9/2018	GOLD	11:30:00 AM	1187.46	1187.5			N/A
10/9/2018	GOLD	1:30:00 PM	1186.04	1186.27			N/A
10/9/2018	GOLD	3:30:00 PM	1187.26	1187.35			N/A
10/9/2018	HKDJPY	9:30:00 AM	14.47	14.48			N/A
10/9/2018	HKDJPY	11:30:00 AM					N/A
10/9/2018	HKDJPY	1:30:00 PM					N/A
10/9/2018	HKDJPY	3:30:00 PM					N/A
10/9/2018	HUFJPY	9:30:00 AM	0.3999	0.4002			N/A
10/9/2018	HUFJPY	11:30:00 AM					N/A
10/9/2018	HUFJPY	1:30:00 PM	0.3979	0.3982			N/A
10/9/2018	HUFJPY	3:30:00 PM	0.3997	0.4			N/A
10/9/2018	MXNJPY	9:30:00 AM					N/A
10/9/2018	MXNJPY	11:30:00 AM					N/A
10/9/2018	MXNJPY	1:30:00 PM					N/A
10/9/2018	MXNJPY	3:30:00 PM					N/A
10/9/2018	NOKJPY	9:30:00 AM					N/A
10/9/2018	NOKJPY	11:30:00 AM					N/A
10/9/2018	NOKJPY	1:30:00 PM	13.65	13.69			N/A
10/9/2018	NOKJPY	3:30:00 PM					N/A
10/9/2018	NZDCAD	9:30:00 AM	0.83456	0.83515			N/A
10/9/2018	NZDCAD	11:30:00 AM	0.83518	0.83579			N/A
10/9/2018	NZDCAD	1:30:00 PM	0.83544	0.83616			N/A
10/9/2018	NZDCAD	3:30:00 PM	0.83556	0.83615			N/A
10/9/2018	NZDCHF	9:30:00 AM	0.64031	0.64092			N/A
10/9/2018	NZDCHF	11:30:00 AM	0.64005	0.64065			N/A
10/9/2018	NZDCHF	1:30:00 PM	0.63921	0.63989			N/A
10/9/2018	NZDCHF	3:30:00 PM	0.63971	0.64039			N/A
10/9/2018	NZDCZK	9:30:00 AM	14.48	14.488			N/A
10/9/2018	NZDCZK	11:30:00 AM	14.483	14.496			N/A
10/9/2018	NZDCZK	1:30:00 PM	14.505	14.518			N/A
10/9/2018	NZDCZK	3:30:00 PM	14.483	14.496			N/A
10/9/2018	NZDDKK	9:30:00 AM	4.186	4.19			N/A
10/9/2018	NZDDKK	11:30:00 AM					N/A
10/9/2018	NZDDKK	1:30:00 PM					N/A
10/9/2018	NZDDKK	3:30:00 PM					N/A
10/9/2018	NZDHKD	9:30:00 AM	5.0408	5.0429			N/A
10/9/2018	NZDHKD	11:30:00 AM	5.0403	5.0432			N/A
10/9/2018	NZDHKD	1:30:00 PM	5.036	5.0382			N/A
10/9/2018	NZDHKD	3:30:00 PM	5.0388	5.0416			N/A
10/9/2018	NZDHUF	9:30:00 AM	182.37	182.62			N/A
10/9/2018	NZDHUF	11:30:00 AM	182.66	182.94			N/A
10/9/2018	NZDHUF	1:30:00 PM	182.77	183.06			N/A
10/9/2018	NZDHUF	3:30:00 PM	182.2	182.47			N/A
10/9/2018	NZDJPY	9:30:00 AM	72.93	72.977			N/A
10/9/2018	NZDJPY	11:30:00 AM	72.831	72.893			N/A
10/9/2018	NZDJPY	1:30:00 PM	72.764	72.834			N/A
10/9/2018	NZDJPY	3:30:00 PM	72.868	72.926			N/A
10/9/2018	NZDMXN	9:30:00 AM	12.1973	12.2014			N/A
10/9/2018	NZDMXN	11:30:00 AM	12.2185	12.2234			N/A
10/9/2018	NZDMXN	1:30:00 PM	12.2352	12.2395			N/A

10/9/2018	NZDMXN	3:30:00 PM	12.2445	12.2469			N/A
10/9/2018	NZDNOK	9:30:00 AM	5.334	5.3362			N/A
10/9/2018	NZDNOK	11:30:00 AM	5.326	5.3298			N/A
10/9/2018	NZDNOK	1:30:00 PM	5.3273	5.3311			N/A
10/9/2018	NZDNOK	3:30:00 PM	5.333	5.3355			N/A
10/9/2018	NZDPLN	9:30:00 AM	2.4214	2.4227			N/A
10/9/2018	NZDPLN	11:30:00 AM	2.4239	2.4252			N/A
10/9/2018	NZDPLN	1:30:00 PM	2.4263	2.4276			N/A
10/9/2018	NZDPLN	3:30:00 PM	2.4216	2.423			N/A
10/9/2018	NZDSEK	9:30:00 AM	5.8633	5.8691			N/A
10/9/2018	NZDSEK	11:30:00 AM	5.8492	5.8561			N/A
10/9/2018	NZDSEK	1:30:00 PM	5.8636	5.8704			N/A
10/9/2018	NZDSEK	3:30:00 PM	5.8672	5.8731			N/A
10/9/2018	NZDSGD	9:30:00 AM	0.8918	0.8923			N/A
10/9/2018	NZDSGD	11:30:00 AM	0.8923	0.8928			N/A
10/9/2018	NZDSGD	1:30:00 PM	0.8917	0.8923			N/A
10/9/2018	NZDSGD	3:30:00 PM	0.892	0.8927			N/A
10/9/2018	NZDUSD	9:30:00 AM	0.64368	0.6436			N/A
10/9/2018	NZDUSD	11:30:00 AM	0.64346	0.64359			N/A
10/9/2018	NZDUSD	1:30:00 PM	0.64277	0.6429			N/A
10/9/2018	NZDUSD	3:30:00 PM	0.64316	0.64328			N/A
10/9/2018	NZDZAR	9:30:00 AM	9.5857	9.5806			N/A
10/9/2018	NZDZAR	11:30:00 AM	9.5808	9.5778			N/A
10/9/2018	NZDZAR	1:30:00 PM	9.6498	9.6641			N/A
10/9/2018	NZDZAR	3:30:00 PM	9.5712	9.5741			N/A
10/9/2018	SEKJPY	9:30:00 AM	12.44	12.45			N/A
10/9/2018	SEKJPY	11:30:00 AM	12.45	12.46			N/A
10/9/2018	SEKJPY	1:30:00 PM					N/A
10/9/2018	SEKJPY	3:30:00 PM	12.41	12.43			N/A
10/9/2018	SGDJPY	9:30:00 AM	81.78	81.8			N/A
10/9/2018	SGDJPY	11:30:00 AM	81.62	81.64			N/A
10/9/2018	SGDJPY	1:30:00 PM	81.61	81.63			N/A
10/9/2018	SGDJPY	3:30:00 PM	81.68	81.7			N/A
10/9/2018	SILVER	9:30:00 AM	14.19	14.57			N/A
10/9/2018	SILVER	11:30:00 AM	14.15	14.53			N/A
10/9/2018	SILVER	1:30:00 PM	14.09	14.48			N/A
10/9/2018	SILVER	3:30:00 PM	14.13	14.51			N/A
10/9/2018	USDCAD	9:30:00 AM	1.29684	1.29656			N/A
10/9/2018	USDCAD	11:30:00 AM	1.29785	1.2978			N/A
10/9/2018	USDCAD	1:30:00 PM	1.29968	1.29973			N/A
10/9/2018	USDCAD	3:30:00 PM	1.29907	1.29898			N/A
10/9/2018	USDCHF	9:30:00 AM	0.99497	0.99485			N/A
10/9/2018	USDCHF	11:30:00 AM	0.99478	0.99462			N/A
10/9/2018	USDCHF	1:30:00 PM	0.99453	0.99453			N/A
10/9/2018	USDCHF	3:30:00 PM	0.99434	0.99504			N/A
10/9/2018	USDCZK	9:30:00 AM	22.498	22.507			N/A
10/9/2018	USDCZK	11:30:00 AM	22.5	22.521			N/A
10/9/2018	USDCZK	1:30:00 PM	22.56	22.581			N/A
10/9/2018	USDCZK	3:30:00 PM	22.51	22.533			N/A
10/9/2018	USDDKK	9:30:00 AM	6.5065	6.5077			N/A

10/9/2018	USDDKK	11:30:00 AM	6.5088	6.5134			N/A
10/9/2018	USDDKK	1:30:00 PM	6.5209	6.5251			N/A
10/9/2018	USDDKK	3:30:00 PM	6.5136	6.5188			N/A
10/9/2018	USDHKD	9:30:00 AM	7.8323	7.8327			N/A
10/9/2018	USDHKD	11:30:00 AM					N/A
10/9/2018	USDHKD	1:30:00 PM	7.8337	7.8341			N/A
10/9/2018	USDHKD	3:30:00 PM	7.8344	7.8349			N/A
10/9/2018	USDHUF	9:30:00 AM	283.41	283.72			N/A
10/9/2018	USDHUF	11:30:00 AM	283.85	284.3			N/A
10/9/2018	USDHUF	1:30:00 PM	284.34	284.76			N/A
10/9/2018	USDHUF	3:30:00 PM	283.27	283.69			N/A
10/9/2018	USDJPY	9:30:00 AM	113.327	113.32			N/A
10/9/2018	USDJPY	11:30:00 AM	113.204	113.198			N/A
10/9/2018	USDJPY	1:30:00 PM	113.224	113.228			N/A
10/9/2018	USDJPY	3:30:00 PM	113.309	113.304			N/A
10/9/2018	USDMXN	9:30:00 AM	18.954	18.958			N/A
10/9/2018	USDMXN	11:30:00 AM	18.99	18.995			N/A
10/9/2018	USDMXN	1:30:00 PM	19.037	19.038			N/A
10/9/2018	USDMXN	3:30:00 PM	19.038	19.038			N/A
10/9/2018	USDNOK	9:30:00 AM	8.2892	8.2932			N/A
10/9/2018	USDNOK	11:30:00 AM	8.2772	8.2851			N/A
10/9/2018	USDNOK	1:30:00 PM	8.2877	8.2954			N/A
10/9/2018	USDNOK	3:30:00 PM	8.2912	8.2986			N/A
10/9/2018	USDPLN	9:30:00 AM	3.7638	3.7623			N/A
10/9/2018	USDPLN	11:30:00 AM	3.767	3.7683			N/A
10/9/2018	USDPLN	1:30:00 PM	3.7747	3.7755			N/A
10/9/2018	USDPLN	3:30:00 PM	3.7649	3.7664			N/A
10/9/2018	USDRUR	9:30:00 AM					N/A
10/9/2018	USDRUR	11:30:00 AM	66.337	66.715			N/A
10/9/2018	USDRUR	1:30:00 PM	66.584	66.931			N/A
10/9/2018	USDRUR	3:30:00 PM	66.529	66.915			N/A
10/9/2018	USDSEK	9:30:00 AM	9.1133	9.1134			N/A
10/9/2018	USDSEK	11:30:00 AM	9.0914	9.0957			N/A
10/9/2018	USDSEK	1:30:00 PM	9.1243	9.1276			N/A
10/9/2018	USDSEK	3:30:00 PM	9.1238	9.1275			N/A
10/9/2018	USDSGD	9:30:00 AM	1.385	1.3851			N/A
10/9/2018	USDSGD	11:30:00 AM	1.386	1.3865			N/A
10/9/2018	USDSGD	1:30:00 PM	1.3866	1.3869			N/A
10/9/2018	USDSGD	3:30:00 PM	1.3863	1.3867			N/A
10/9/2018	USDZAR	9:30:00 AM	14.8956	14.8941			N/A
10/9/2018	USDZAR	11:30:00 AM	14.8875	14.893			N/A
10/9/2018	USDZAR	1:30:00 PM	15.0201	15.0309			N/A
10/9/2018	USDZAR	3:30:00 PM	14.8845	14.8839			N/A
10/9/2018	XAUUSD	9:30:00 AM	1188.48	1188.62			N/A
10/9/2018	XAUUSD	11:30:00 AM	1187.45	1187.51			N/A
10/9/2018	XAUUSD	1:30:00 PM	1186	1186.27			N/A
10/9/2018	XAUUSD	3:30:00 PM	1187.25	1187.35			N/A
10/9/2018	ZARJPY	9:30:00 AM					N/A
10/9/2018	ZARJPY	11:30:00 AM	7.54	7.58			N/A
10/9/2018	ZARJPY	1:30:00 PM	7.46	7.5			N/A

10/9/2018	ZARJPY	3:30:00 PM	7.53	7.57			N/A
10/10/2018	#AA	9:30:00 AM					N/A
10/10/2018	#AA	11:30:00 AM					N/A
10/10/2018	#AA	1:30:00 PM					N/A
10/10/2018	#AA	3:30:00 PM					N/A
10/10/2018	#AABA	9:30:00 AM					N/A
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10/10/2018	#AABA	1:30:00 PM					N/A
10/10/2018	#AABA	3:30:00 PM					N/A
10/10/2018	#AAL	9:30:00 AM					N/A
10/10/2018	#AAL	11:30:00 AM					N/A
10/10/2018	#AAL	1:30:00 PM					N/A
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10/10/2018	#AAPL	11:30:00 AM					N/A
10/10/2018	#AAPL	1:30:00 PM					N/A
10/10/2018	#AAPL	3:30:00 PM					N/A
10/10/2018	#ADBE	9:30:00 AM					N/A
10/10/2018	#ADBE	11:30:00 AM					N/A
10/10/2018	#ADBE	1:30:00 PM					N/A
10/10/2018	#ADBE	3:30:00 PM					N/A
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10/10/2018	#AIG	11:30:00 AM					N/A
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10/10/2018	#AIG	3:30:00 PM					N/A
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10/10/2018	#AMD	11:30:00 AM					N/A
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10/10/2018	#AMD	3:30:00 PM					N/A
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10/10/2018	#BA	3:30:00 PM					N/A
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10/10/2018	#BABA	1:30:00 PM					N/A
10/10/2018	#BABA	3:30:00 PM					N/A
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10/10/2018	#BAC	1:30:00 PM					N/A
10/10/2018	#BAC	3:30:00 PM					N/A
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10/10/2018	#BARC	11:30:00 AM					N/A
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10/10/2018	#BARC	3:30:00 PM					N/A
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10/10/2018	#BIDU	1:30:00 PM					N/A
10/10/2018	#BIDU	3:30:00 PM					N/A
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10/10/2018	#BK	11:30:00 AM					N/A
10/10/2018	#BK	1:30:00 PM					N/A
10/10/2018	#BK	3:30:00 PM					N/A
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10/10/2018	#BP	1:30:00 PM					N/A
10/10/2018	#BP	3:30:00 PM					N/A
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10/10/2018	#BTA	11:30:00 AM					N/A
10/10/2018	#BTA	1:30:00 PM					N/A
10/10/2018	#BTA	3:30:00 PM					N/A
10/10/2018	#C	9:30:00 AM					N/A
10/10/2018	#C	11:30:00 AM					N/A
10/10/2018	#C	1:30:00 PM					N/A
10/10/2018	#C	3:30:00 PM					N/A
10/10/2018	#CAT	9:30:00 AM					N/A
10/10/2018	#CAT	11:30:00 AM					N/A
10/10/2018	#CAT	1:30:00 PM					N/A
10/10/2018	#CAT	3:30:00 PM					N/A
10/10/2018	#CHL	9:30:00 AM					N/A
10/10/2018	#CHL	11:30:00 AM					N/A
10/10/2018	#CHL	1:30:00 PM					N/A
10/10/2018	#CHL	3:30:00 PM					N/A
10/10/2018	#CMCSA	9:30:00 AM					N/A
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10/10/2018	AUDHKD	3:30:00 PM	5.5661	5.5692			N/A
10/10/2018	AUDHUF	9:30:00 AM	200.7	200.91			N/A
10/10/2018	AUDHUF	11:30:00 AM	200.54	200.75			N/A
10/10/2018	AUDHUF	1:30:00 PM	200.34	200.55			N/A
10/10/2018	AUDHUF	3:30:00 PM	200.2	200.43			N/A
10/10/2018	AUDJPY	9:30:00 AM	80.343	80.405			N/A
10/10/2018	AUDJPY	11:30:00 AM	80.285	80.351			N/A
10/10/2018	AUDJPY	1:30:00 PM	80.392	80.457			N/A
10/10/2018	AUDJPY	3:30:00 PM	80.399	80.418			N/A
10/10/2018	AUDMXN	9:30:00 AM	13.5242	13.5297			N/A
10/10/2018	AUDMXN	11:30:00 AM	13.5193	13.5261			N/A
10/10/2018	AUDMXN	1:30:00 PM	13.5152	13.5259			N/A
10/10/2018	AUDMXN	3:30:00 PM	13.5686	13.5751			N/A
10/10/2018	AUDNOK	9:30:00 AM	5.8552	5.8605			N/A

10/10/2018	AUDNOK	11:30:00 AM	5.8395	5.8447			N/A
10/10/2018	AUDNOK	1:30:00 PM	5.8261	5.8319			N/A
10/10/2018	AUDNOK	3:30:00 PM	5.825	5.8309			N/A
10/10/2018	AUDNZD	9:30:00 AM	1.09715	1.09795			N/A
10/10/2018	AUDNZD	11:30:00 AM	1.09794	1.09879			N/A
10/10/2018	AUDNZD	1:30:00 PM	1.09761	1.09849			N/A
10/10/2018	AUDNZD	3:30:00 PM	1.0977	1.09848			N/A
10/10/2018	AUDPLN	9:30:00 AM	2.6632	2.6653			N/A
10/10/2018	AUDPLN	11:30:00 AM	2.6596	2.6626			N/A
10/10/2018	AUDPLN	1:30:00 PM	2.6572	2.6605			N/A
10/10/2018	AUDPLN	3:30:00 PM	2.6555	2.6582			N/A
10/10/2018	AUDSEK	9:30:00 AM	6.4641	6.4672			N/A
10/10/2018	AUDSEK	11:30:00 AM	6.4514	6.4544			N/A
10/10/2018	AUDSEK	1:30:00 PM	6.4693	6.4722			N/A
10/10/2018	AUDSEK	3:30:00 PM	6.4615	6.4629			N/A
10/10/2018	AUDSGD	9:30:00 AM	0.9817	0.982			N/A
10/10/2018	AUDSGD	11:30:00 AM	0.9808	0.981			N/A
10/10/2018	AUDSGD	1:30:00 PM					N/A
10/10/2018	AUDSGD	3:30:00 PM	0.9825	0.9826			N/A
10/10/2018	AUDUSD	9:30:00 AM	0.71095	0.71103			N/A
10/10/2018	AUDUSD	11:30:00 AM	0.70946	0.70956			N/A
10/10/2018	AUDUSD	1:30:00 PM	0.71032	0.71044			N/A
10/10/2018	AUDUSD	3:30:00 PM	0.71075	0.71073			N/A
10/10/2018	AUDZAR	9:30:00 AM	10.3914	10.4006			N/A
10/10/2018	AUDZAR	11:30:00 AM	10.3956	10.4061			N/A
10/10/2018	AUDZAR	1:30:00 PM	10.3821	10.3962			N/A
10/10/2018	AUDZAR	3:30:00 PM	10.38	10.3876			N/A
10/10/2018	CADCHF	9:30:00 AM	0.76586	0.76647			N/A
10/10/2018	CADCHF	11:30:00 AM	0.76601	0.76667			N/A
10/10/2018	CADCHF	1:30:00 PM	0.7655	0.76628			N/A
10/10/2018	CADCHF	3:30:00 PM	0.76542	0.76607			N/A
10/10/2018	CADCZK	9:30:00 AM	17.364	17.378			N/A
10/10/2018	CADCZK	11:30:00 AM	17.354	17.371			N/A
10/10/2018	CADCZK	1:30:00 PM	17.311	17.329			N/A
10/10/2018	CADCZK	3:30:00 PM	17.287	17.3			N/A
10/10/2018	CADDKK	9:30:00 AM	5.017	5.021			N/A
10/10/2018	CADDKK	11:30:00 AM	5.012	5.016			N/A
10/10/2018	CADDKK	1:30:00 PM	5.006	5.01			N/A
10/10/2018	CADDKK	3:30:00 PM	4.997	5			N/A
10/10/2018	CADHKD	9:30:00 AM	6.0535	6.0567			N/A
10/10/2018	CADHKD	11:30:00 AM					N/A
10/10/2018	CADHKD	1:30:00 PM	6.0493	6.0532			N/A
10/10/2018	CADHKD	3:30:00 PM	6.0445	6.0482			N/A
10/10/2018	CADHUF	9:30:00 AM	218.23	218.36			N/A
10/10/2018	CADHUF	11:30:00 AM	218.26	218.43			N/A
10/10/2018	CADHUF	1:30:00 PM	217.94	218.06			N/A
10/10/2018	CADHUF	3:30:00 PM	217.48	217.58			N/A
10/10/2018	CADJPY	9:30:00 AM	87.329	87.388			N/A
10/10/2018	CADJPY	11:30:00 AM	87.344	87.414			N/A
10/10/2018	CADJPY	1:30:00 PM	87.405	87.474			N/A

10/10/2018	CADJPY	3:30:00 PM	87.292	87.316			N/A
10/10/2018	CADMXN	9:30:00 AM	14.7047	14.7107			N/A
10/10/2018	CADMXN	11:30:00 AM	14.7121	14.7216			N/A
10/10/2018	CADMXN	1:30:00 PM	14.6992	14.7114			N/A
10/10/2018	CADMXN	3:30:00 PM	14.7363	14.7439			N/A
10/10/2018	CADNOK	9:30:00 AM	6.3659	6.3704			N/A
10/10/2018	CADNOK	11:30:00 AM	6.3555	6.3596			N/A
10/10/2018	CADNOK	1:30:00 PM	6.3369	6.3407			N/A
10/10/2018	CADNOK	3:30:00 PM	6.3276	6.3301			N/A
10/10/2018	CADPLN	9:30:00 AM	2.8947	2.8954			N/A
10/10/2018	CADPLN	11:30:00 AM	2.8944	2.8962			N/A
10/10/2018	CADPLN	1:30:00 PM	2.8892	2.8909			N/A
10/10/2018	CADPLN	3:30:00 PM	2.8831	2.8847			N/A
10/10/2018	CADSEK	9:30:00 AM	7.026	7.0294			N/A
10/10/2018	CADSEK	11:30:00 AM	7.0191	7.0226			N/A
10/10/2018	CADSEK	1:30:00 PM	7.0348	7.037			N/A
10/10/2018	CADSEK	3:30:00 PM	7.0157	7.0172			N/A
10/10/2018	CADSGD	9:30:00 AM	1.0672	1.0675			N/A
10/10/2018	CADSGD	11:30:00 AM	1.0671	1.0674			N/A
10/10/2018	CADSGD	1:30:00 PM	1.0672	1.0674			N/A
10/10/2018	CADSGD	3:30:00 PM	1.0666	1.0669			N/A
10/10/2018	CADZAR	9:30:00 AM	11.2909	11.3022			N/A
10/10/2018	CADZAR	11:30:00 AM	11.3039	11.3183			N/A
10/10/2018	CADZAR	1:30:00 PM	11.2852	11.3009			N/A
10/10/2018	CADZAR	3:30:00 PM	11.2669	11.2744			N/A
10/10/2018	CHFCZK	9:30:00 AM	22.67	22.68			N/A
10/10/2018	CHFCZK	11:30:00 AM	22.651	22.664			N/A
10/10/2018	CHFCZK	1:30:00 PM	22.607	22.624			N/A
10/10/2018	CHFCZK	3:30:00 PM	22.579	22.591			N/A
10/10/2018	CHFDKK	9:30:00 AM	6.548	6.552			N/A
10/10/2018	CHFDKK	11:30:00 AM					N/A
10/10/2018	CHFDKK	1:30:00 PM					N/A
10/10/2018	CHFDKK	3:30:00 PM	6.525	6.528			N/A
10/10/2018	CHFHKD	9:30:00 AM	7.9024	7.905			N/A
10/10/2018	CHFHKD	11:30:00 AM	7.8898	7.8935			N/A
10/10/2018	CHFHKD	1:30:00 PM	7.9006	7.904			N/A
10/10/2018	CHFHKD	3:30:00 PM	7.8946	7.8979			N/A
10/10/2018	CHFHUF	9:30:00 AM	284.8	285.11			N/A
10/10/2018	CHFHUF	11:30:00 AM	284.75	285.1			N/A
10/10/2018	CHFHUF	1:30:00 PM	284.48	284.8			N/A
10/10/2018	CHFHUF	3:30:00 PM	283.94	284.26			N/A
10/10/2018	CHFJPY	9:30:00 AM	113.948	113.996			N/A
10/10/2018	CHFJPY	11:30:00 AM	113.946	113.995			N/A
10/10/2018	CHFJPY	1:30:00 PM	114.082	114.152			N/A
10/10/2018	CHFJPY	3:30:00 PM	113.948	113.972			N/A
10/10/2018	CHFMXN	9:30:00 AM	19.1915	19.2023			N/A
10/10/2018	CHFMXN	11:30:00 AM	19.1976	19.2079			N/A
10/10/2018	CHFMXN	1:30:00 PM	19.1901	19.2074			N/A
10/10/2018	CHFMXN	3:30:00 PM	19.2438	19.2524			N/A
10/10/2018	CHFNOK	9:30:00 AM	8.31	8.316			N/A

10/10/2018	CHFNOK	11:30:00 AM	8.2922	8.2987			N/A
10/10/2018	CHFNOK	1:30:00 PM	8.2739	8.2813			N/A
10/10/2018	CHFNOK	3:30:00 PM	8.2633	8.2701			N/A
10/10/2018	CHFPLN	9:30:00 AM	3.7787	3.7801			N/A
10/10/2018	CHFPLN	11:30:00 AM	3.776	3.7786			N/A
10/10/2018	CHFPLN	1:30:00 PM	3.7728	3.776			N/A
10/10/2018	CHFPLN	3:30:00 PM	3.7658	3.768			N/A
10/10/2018	CHFSEK	9:30:00 AM	9.1731	9.1756			N/A
10/10/2018	CHFSEK	11:30:00 AM	9.1607	9.1638			N/A
10/10/2018	CHFSEK	1:30:00 PM	9.1868	9.1891			N/A
10/10/2018	CHFSEK	3:30:00 PM	9.1647	9.1654			N/A
10/10/2018	CHFSGD	9:30:00 AM	1.3928	1.3931			N/A
10/10/2018	CHFSGD	11:30:00 AM	1.3923	1.3927			N/A
10/10/2018	CHFSGD	1:30:00 PM	1.3937	1.3941			N/A
10/10/2018	CHFSGD	3:30:00 PM	1.393	1.3933			N/A
10/10/2018	CHFZAR	9:30:00 AM	14.7424	14.7499			N/A
10/10/2018	CHFZAR	11:30:00 AM	14.7555	14.7654			N/A
10/10/2018	CHFZAR	1:30:00 PM	14.7385	14.7517			N/A
10/10/2018	CHFZAR	3:30:00 PM	14.7192	14.722			N/A
10/10/2018	CZKJPY	9:30:00 AM	5.028	5.032			N/A
10/10/2018	CZKJPY	11:30:00 AM					N/A
10/10/2018	CZKJPY	1:30:00 PM					N/A
10/10/2018	CZKJPY	3:30:00 PM	5.049	5.05			N/A
10/10/2018	DKKJPY	9:30:00 AM					N/A
10/10/2018	DKKJPY	11:30:00 AM					N/A
10/10/2018	DKKJPY	1:30:00 PM					N/A
10/10/2018	DKKJPY	3:30:00 PM	17.48	17.48			N/A
10/10/2018	EURAUD	9:30:00 AM	1.6159	1.61629			N/A
10/10/2018	EURAUD	11:30:00 AM	1.61904	1.61936			N/A
10/10/2018	EURAUD	1:30:00 PM	1.61985	1.62026			N/A
10/10/2018	EURAUD	3:30:00 PM	1.62076	1.621			N/A
10/10/2018	EURCAD	9:30:00 AM	1.48684	1.48765			N/A
10/10/2018	EURCAD	11:30:00 AM	1.48839	1.48908			N/A
10/10/2018	EURCAD	1:30:00 PM	1.49	1.49089			N/A
10/10/2018	EURCAD	3:30:00 PM	1.49301	1.49349			N/A
10/10/2018	EURCHF	9:30:00 AM	1.13918	1.13914			N/A
10/10/2018	EURCHF	11:30:00 AM	1.14072	1.14061			N/A
10/10/2018	EURCHF	1:30:00 PM	1.14111	1.14127			N/A
10/10/2018	EURCHF	3:30:00 PM	1.14286	1.14339			N/A
10/10/2018	EURCZK	9:30:00 AM	25.814	25.844			N/A
10/10/2018	EURCZK	11:30:00 AM	25.824	25.86			N/A
10/10/2018	EURCZK	1:30:00 PM	25.79	25.829			N/A
10/10/2018	EURCZK	3:30:00 PM	25.806	25.839			N/A
10/10/2018	EURDKK	9:30:00 AM	7.4595	7.4606			N/A
10/10/2018	EURDKK	11:30:00 AM	7.4596	7.4606			N/A
10/10/2018	EURDKK	1:30:00 PM	7.4597	7.4608			N/A
10/10/2018	EURDKK	3:30:00 PM	7.459	7.4602			N/A
10/10/2018	EURGBP	9:30:00 AM	0.8725	0.87248			N/A
10/10/2018	EURGBP	11:30:00 AM	0.8731	0.87316			N/A
10/10/2018	EURGBP	1:30:00 PM	0.87351	0.87365			N/A

10/10/2018	EURGBP	3:30:00 PM	0.87359	0.87365			N/A
10/10/2018	EURHKD	9:30:00 AM	8.9996	9.0037			N/A
10/10/2018	EURHKD	11:30:00 AM	8.9984	9.0021			N/A
10/10/2018	EURHKD	1:30:00 PM	9.0134	9.0187			N/A
10/10/2018	EURHKD	3:30:00 PM	9.0238	9.0261			N/A
10/10/2018	EURHUF	9:30:00 AM	324.25	324.95			N/A
10/10/2018	EURHUF	11:30:00 AM	324.68	325.39			N/A
10/10/2018	EURHUF	1:30:00 PM	324.54	325.19			N/A
10/10/2018	EURHUF	3:30:00 PM	324.42	325.15			N/A
10/10/2018	EURJPY	9:30:00 AM	129.868	129.86			N/A
10/10/2018	EURJPY	11:30:00 AM	130.037	130.017			N/A
10/10/2018	EURJPY	1:30:00 PM	130.266	130.268			N/A
10/10/2018	EURJPY	3:30:00 PM	130.35	130.267			N/A
10/10/2018	EURMXN	9:30:00 AM	21.8625	21.874			N/A
10/10/2018	EURMXN	11:30:00 AM	21.8965	21.9106			N/A
10/10/2018	EURMXN	1:30:00 PM	21.9009	21.9203			N/A
10/10/2018	EURMXN	3:30:00 PM	21.998	22.0112			N/A
10/10/2018	EURNOK	9:30:00 AM	9.464	9.4745			N/A
10/10/2018	EURNOK	11:30:00 AM	9.4566	9.4681			N/A
10/10/2018	EURNOK	1:30:00 PM	9.4406	9.4519			N/A
10/10/2018	EURNOK	3:30:00 PM	9.4434	9.4562			N/A
10/10/2018	EURNZD	9:30:00 AM	1.77359	1.77429			N/A
10/10/2018	EURNZD	11:30:00 AM	1.77835	1.77903			N/A
10/10/2018	EURNZD	1:30:00 PM	1.77868	1.77957			N/A
10/10/2018	EURNZD	3:30:00 PM	1.77981	1.78036			N/A
10/10/2018	EURPLN	9:30:00 AM	4.3044	4.3062			N/A
10/10/2018	EURPLN	11:30:00 AM	4.3068	4.3101			N/A
10/10/2018	EURPLN	1:30:00 PM	4.3056	4.3089			N/A
10/10/2018	EURPLN	3:30:00 PM	4.3045	4.3074			N/A
10/10/2018	EURRUR	9:30:00 AM					N/A
10/10/2018	EURRUR	11:30:00 AM	75.715	76.131			N/A
10/10/2018	EURRUR	1:30:00 PM	75.706	76.144			N/A
10/10/2018	EURRUR	3:30:00 PM	75.88	76.294			N/A
10/10/2018	EURSEK	9:30:00 AM	10.4472	10.4523			N/A
10/10/2018	EURSEK	11:30:00 AM	10.4467	10.4521			N/A
10/10/2018	EURSEK	1:30:00 PM	10.484	10.4861			N/A
10/10/2018	EURSEK	3:30:00 PM	10.4745	10.4775			N/A
10/10/2018	EURSGD	9:30:00 AM	1.5864	1.5871			N/A
10/10/2018	EURSGD	11:30:00 AM	1.5879	1.5886			N/A
10/10/2018	EURSGD	1:30:00 PM	1.5903	1.5912			N/A
10/10/2018	EURSGD	3:30:00 PM	1.5923	1.5929			N/A
10/10/2018	EURUSD	9:30:00 AM	1.14861	1.14858			N/A
10/10/2018	EURUSD	11:30:00 AM	1.1484	1.14836			N/A
10/10/2018	EURUSD	1:30:00 PM	1.15033	1.15044			N/A
10/10/2018	EURUSD	3:30:00 PM	1.15167	1.15144			N/A
10/10/2018	EURZAR	9:30:00 AM	16.7946	16.8051			N/A
10/10/2018	EURZAR	11:30:00 AM	16.8354	16.8468			N/A
10/10/2018	EURZAR	1:30:00 PM	16.8202	16.8392			N/A
10/10/2018	EURZAR	3:30:00 PM	16.8275	16.8358			N/A
10/10/2018	GBPAUD	9:30:00 AM	1.85204	1.85245			N/A

10/10/2018	GBPAUD	11:30:00 AM	1.85406	1.85473			N/A
10/10/2018	GBPAUD	1:30:00 PM	1.85413	1.85478			N/A
10/10/2018	GBPAUD	3:30:00 PM	1.85496	1.85556			N/A
10/10/2018	GBPCAD	9:30:00 AM	1.70396	1.70445			N/A
10/10/2018	GBPCAD	11:30:00 AM	1.70423	1.70503			N/A
10/10/2018	GBPCAD	1:30:00 PM	1.70532	1.70615			N/A
10/10/2018	GBPCAD	3:30:00 PM	1.70866	1.70912			N/A
10/10/2018	GBPCHF	9:30:00 AM	1.30563	1.30568			N/A
10/10/2018	GBPCHF	11:30:00 AM	1.30621	1.30654			N/A
10/10/2018	GBPCHF	1:30:00 PM	1.30611	1.30666			N/A
10/10/2018	GBPCHF	3:30:00 PM	1.30821	1.30885			N/A
10/10/2018	GBPCZK	9:30:00 AM	29.588	29.608			N/A
10/10/2018	GBPCZK	11:30:00 AM	29.581	29.603			N/A
10/10/2018	GBPCZK	1:30:00 PM	29.526	29.548			N/A
10/10/2018	GBPCZK	3:30:00 PM	29.535	29.556			N/A
10/10/2018	GBPDKK	9:30:00 AM	8.547	8.557			N/A
10/10/2018	GBPDKK	11:30:00 AM	8.54	8.551			N/A
10/10/2018	GBPDKK	1:30:00 PM	8.535	8.548			N/A
10/10/2018	GBPDKK	3:30:00 PM	8.535	8.546			N/A
10/10/2018	GBPHKD	9:30:00 AM	10.3154	10.3179			N/A
10/10/2018	GBPHKD	11:30:00 AM	10.3043	10.31			N/A
10/10/2018	GBPHKD	1:30:00 PM	10.3169	10.3228			N/A
10/10/2018	GBPHKD	3:30:00 PM	10.3284	10.3314			N/A
10/10/2018	GBPHUF	9:30:00 AM	371.73	372.2			N/A
10/10/2018	GBPHUF	11:30:00 AM	371.89	372.35			N/A
10/10/2018	GBPHUF	1:30:00 PM	371.56	371.95			N/A
10/10/2018	GBPHUF	3:30:00 PM	371.42	371.89			N/A
10/10/2018	GBPJPY	9:30:00 AM	148.874	148.868			N/A
10/10/2018	GBPJPY	11:30:00 AM	148.932	148.963			N/A
10/10/2018	GBPJPY	1:30:00 PM	149.12	149.168			N/A
10/10/2018	GBPJPY	3:30:00 PM	149.215	149.164			N/A
10/10/2018	GBPMXN	9:30:00 AM	25.0529	25.0648			N/A
10/10/2018	GBPMXN	11:30:00 AM	25.0743	25.0844			N/A
10/10/2018	GBPMXN	1:30:00 PM	25.0662	25.0831			N/A
10/10/2018	GBPMXN	3:30:00 PM	25.178	25.1844			N/A
10/10/2018	GBPNOK	9:30:00 AM	10.8486	10.8583			N/A
10/10/2018	GBPNOK	11:30:00 AM	10.8324	10.8422			N/A
10/10/2018	GBPNOK	1:30:00 PM	10.8085	10.819			N/A
10/10/2018	GBPNOK	3:30:00 PM	10.8114	10.8222			N/A
10/10/2018	GBPNZD	9:30:00 AM	2.03302	2.03349			N/A
10/10/2018	GBPNZD	11:30:00 AM	2.03681	2.03743			N/A
10/10/2018	GBPNZD	1:30:00 PM	2.03622	2.03707			N/A
10/10/2018	GBPNZD	3:30:00 PM	2.03734	2.03796			N/A
10/10/2018	GBPPLN	9:30:00 AM	4.9344	4.9349			N/A
10/10/2018	GBPPLN	11:30:00 AM	4.9338	4.9354			N/A
10/10/2018	GBPPLN	1:30:00 PM	4.9296	4.9318			N/A
10/10/2018	GBPPLN	3:30:00 PM	4.9282	4.9297			N/A
10/10/2018	GBPSEK	9:30:00 AM	11.9735	11.9811			N/A
10/10/2018	GBPSEK	11:30:00 AM	11.9634	11.9723			N/A
10/10/2018	GBPSEK	1:30:00 PM	12	12.0061			N/A

10/10/2018	GBPSEK	3:30:00 PM	11.9876	11.9946			N/A
10/10/2018	GBPSGD	9:30:00 AM	1.8183	1.8189			N/A
10/10/2018	GBPSGD	11:30:00 AM	1.8188	1.8195			N/A
10/10/2018	GBPSGD	1:30:00 PM	1.8206	1.8214			N/A
10/10/2018	GBPSGD	3:30:00 PM	1.8228	1.8234			N/A
10/10/2018	GBPUSD	9:30:00 AM	1.31659	1.31639			N/A
10/10/2018	GBPUSD	11:30:00 AM	1.31533	1.31536			N/A
10/10/2018	GBPUSD	1:30:00 PM	1.31691	1.31703			N/A
10/10/2018	GBPUSD	3:30:00 PM	1.31835	1.31813			N/A
10/10/2018	GBPZAR	9:30:00 AM	19.2462	19.2671			N/A
10/10/2018	GBPZAR	11:30:00 AM	19.278	19.297			N/A
10/10/2018	GBPZAR	1:30:00 PM	19.2518	19.2802			N/A
10/10/2018	GBPZAR	3:30:00 PM	19.2585	19.2752			N/A
10/10/2018	GOLD	9:30:00 AM	1188.66	1188.68			N/A
10/10/2018	GOLD	11:30:00 AM	1186.55	1186.57			N/A
10/10/2018	GOLD	1:30:00 PM	1189.17	1189.39			N/A
10/10/2018	GOLD	3:30:00 PM	1188.17	1188.38			N/A
10/10/2018	HKDJPY	9:30:00 AM					N/A
10/10/2018	HKDJPY	11:30:00 AM					N/A
10/10/2018	HKDJPY	1:30:00 PM					N/A
10/10/2018	HKDJPY	3:30:00 PM					N/A
10/10/2018	HUFJPY	9:30:00 AM	0.4005	0.4008			N/A
10/10/2018	HUFJPY	11:30:00 AM	0.4004	0.4007			N/A
10/10/2018	HUFJPY	1:30:00 PM	0.401	0.4013			N/A
10/10/2018	HUFJPY	3:30:00 PM	0.4016	0.4019			N/A
10/10/2018	MXNJPY	9:30:00 AM					N/A
10/10/2018	MXNJPY	11:30:00 AM					N/A
10/10/2018	MXNJPY	1:30:00 PM					N/A
10/10/2018	MXNJPY	3:30:00 PM	5.93	5.94			N/A
10/10/2018	NOKJPY	9:30:00 AM					N/A
10/10/2018	NOKJPY	11:30:00 AM	13.74	13.77			N/A
10/10/2018	NOKJPY	1:30:00 PM					N/A
10/10/2018	NOKJPY	3:30:00 PM	13.79	13.83			N/A
10/10/2018	NZDCAD	9:30:00 AM	0.83783	0.8385			N/A
10/10/2018	NZDCAD	11:30:00 AM	0.83646	0.83715			N/A
10/10/2018	NZDCAD	1:30:00 PM	0.83713	0.8379			N/A
10/10/2018	NZDCAD	3:30:00 PM	0.83832	0.83896			N/A
10/10/2018	NZDCHF	9:30:00 AM	0.64188	0.64245			N/A
10/10/2018	NZDCHF	11:30:00 AM	0.64095	0.64158			N/A
10/10/2018	NZDCHF	1:30:00 PM	0.64106	0.64183			N/A
10/10/2018	NZDCHF	3:30:00 PM	0.64185	0.64246			N/A
10/10/2018	NZDCZK	9:30:00 AM	14.55	14.562			N/A
10/10/2018	NZDCZK	11:30:00 AM	14.52	14.532			N/A
10/10/2018	NZDCZK	1:30:00 PM					N/A
10/10/2018	NZDCZK	3:30:00 PM	14.494	14.504			N/A
10/10/2018	NZDDKK	9:30:00 AM	4.203	4.207			N/A
10/10/2018	NZDDKK	11:30:00 AM					N/A
10/10/2018	NZDDKK	1:30:00 PM	4.191	4.194			N/A
10/10/2018	NZDDKK	3:30:00 PM	4.189	4.193			N/A
10/10/2018	NZDHKD	9:30:00 AM	5.0721	5.0746			N/A

10/10/2018	NZDHKD	11:30:00 AM	5.0576	5.0598			N/A
10/10/2018	NZDHKD	1:30:00 PM	5.0648	5.0677			N/A
10/10/2018	NZDHKD	3:30:00 PM	5.0675	5.0704			N/A
10/10/2018	NZDHUF	9:30:00 AM	182.78	183.06			N/A
10/10/2018	NZDHUF	11:30:00 AM	182.52	182.79			N/A
10/10/2018	NZDHUF	1:30:00 PM	182.39	182.64			N/A
10/10/2018	NZDHUF	3:30:00 PM	182.25	182.51			N/A
10/10/2018	NZDJPY	9:30:00 AM	73.189	73.244			N/A
10/10/2018	NZDJPY	11:30:00 AM	73.086	73.147			N/A
10/10/2018	NZDJPY	1:30:00 PM	73.194	73.266			N/A
10/10/2018	NZDJPY	3:30:00 PM	73.196	73.23			N/A
10/10/2018	NZDMXN	9:30:00 AM	12.3205	12.3231			N/A
10/10/2018	NZDMXN	11:30:00 AM	12.3083	12.312			N/A
10/10/2018	NZDMXN	1:30:00 PM	12.3065	12.3134			N/A
10/10/2018	NZDMXN	3:30:00 PM	12.355	12.357			N/A
10/10/2018	NZDNOK	9:30:00 AM	5.3337	5.3375			N/A
10/10/2018	NZDNOK	11:30:00 AM	5.3159	5.3197			N/A
10/10/2018	NZDNOK	1:30:00 PM	5.305	5.3088			N/A
10/10/2018	NZDNOK	3:30:00 PM	5.3047	5.3074			N/A
10/10/2018	NZDPLN	9:30:00 AM	2.4254	2.4259			N/A
10/10/2018	NZDPLN	11:30:00 AM	2.4207	2.4221			N/A
10/10/2018	NZDPLN	1:30:00 PM	2.4191	2.4205			N/A
10/10/2018	NZDPLN	3:30:00 PM	2.417	2.4183			N/A
10/10/2018	NZDSEK	9:30:00 AM	5.8849	5.8917			N/A
10/10/2018	NZDSEK	11:30:00 AM	5.8694	5.8762			N/A
10/10/2018	NZDSEK	1:30:00 PM	5.8878	5.8929			N/A
10/10/2018	NZDSEK	3:30:00 PM	5.8794	5.8844			N/A
10/10/2018	NZDSGD	9:30:00 AM	0.8944	0.8949			N/A
10/10/2018	NZDSGD	11:30:00 AM	0.8928	0.8934			N/A
10/10/2018	NZDSGD	1:30:00 PM	0.8937	0.8943			N/A
10/10/2018	NZDSGD	3:30:00 PM	0.8945	0.8951			N/A
10/10/2018	NZDUSD	9:30:00 AM	0.64723	0.64726			N/A
10/10/2018	NZDUSD	11:30:00 AM	0.64536	0.64544			N/A
10/10/2018	NZDUSD	1:30:00 PM	0.6463	0.64647			N/A
10/10/2018	NZDUSD	3:30:00 PM	0.64667	0.64673			N/A
10/10/2018	NZDZAR	9:30:00 AM	9.4578	9.4717			N/A
10/10/2018	NZDZAR	11:30:00 AM	9.4542	9.4694			N/A
10/10/2018	NZDZAR	1:30:00 PM	9.4464	9.4623			N/A
10/10/2018	NZDZAR	3:30:00 PM	9.4433	9.4545			N/A
10/10/2018	SEKJPY	9:30:00 AM					N/A
10/10/2018	SEKJPY	11:30:00 AM					N/A
10/10/2018	SEKJPY	1:30:00 PM	12.43	12.44			N/A
10/10/2018	SEKJPY	3:30:00 PM	12.44	12.46			N/A
10/10/2018	SGDJPY	9:30:00 AM	81.84	81.86			N/A
10/10/2018	SGDJPY	11:30:00 AM	81.85	81.87			N/A
10/10/2018	SGDJPY	1:30:00 PM	81.88	81.9			N/A
10/10/2018	SGDJPY	3:30:00 PM	81.82	81.82			N/A
10/10/2018	SILVER	9:30:00 AM	14.17	14.56			N/A
10/10/2018	SILVER	11:30:00 AM	14.13	14.52			N/A
10/10/2018	SILVER	1:30:00 PM	14.19	14.57			N/A

10/10/2018	SILVER	3:30:00 PM	14.15	14.53			N/A
10/10/2018	USDCAD	9:30:00 AM	1.29449	1.29452			N/A
10/10/2018	USDCAD	11:30:00 AM	1.29601	1.29605			N/A
10/10/2018	USDCAD	1:30:00 PM	1.29515	1.29526			N/A
10/10/2018	USDCAD	3:30:00 PM	1.29632	1.29621			N/A
10/10/2018	USDCHF	9:30:00 AM	0.99176	0.99167			N/A
10/10/2018	USDCHF	11:30:00 AM	0.99324	0.99318			N/A
10/10/2018	USDCHF	1:30:00 PM	0.99189	0.99205			N/A
10/10/2018	USDCHF	3:30:00 PM	0.99232	0.99298			N/A
10/10/2018	USDCZK	9:30:00 AM	22.476	22.495			N/A
10/10/2018	USDCZK	11:30:00 AM	22.489	22.512			N/A
10/10/2018	USDCZK	1:30:00 PM	22.42	22.444			N/A
10/10/2018	USDCZK	3:30:00 PM	22.408	22.424			N/A
10/10/2018	USDDKK	9:30:00 AM	6.4954	6.5			N/A
10/10/2018	USDDKK	11:30:00 AM	6.4967	6.5012			N/A
10/10/2018	USDDKK	1:30:00 PM	6.485	6.4905			N/A
10/10/2018	USDDKK	3:30:00 PM	6.479	6.4825			N/A
10/10/2018	USDHKD	9:30:00 AM	7.8366	7.8371			N/A
10/10/2018	USDHKD	11:30:00 AM					N/A
10/10/2018	USDHKD	1:30:00 PM	7.8369	7.8373			N/A
10/10/2018	USDHKD	3:30:00 PM					N/A
10/10/2018	USDHUF	9:30:00 AM	282.38	282.82			N/A
10/10/2018	USDHUF	11:30:00 AM	282.79	283.24			N/A
10/10/2018	USDHUF	1:30:00 PM	282.19	282.58			N/A
10/10/2018	USDHUF	3:30:00 PM	281.82	282.22			N/A
10/10/2018	USDJPY	9:30:00 AM	113.098	113.102			N/A
10/10/2018	USDJPY	11:30:00 AM	113.262	113.265			N/A
10/10/2018	USDJPY	1:30:00 PM	113.264	113.274			N/A
10/10/2018	USDJPY	3:30:00 PM	113.209	113.172			N/A
10/10/2018	USDMXN	9:30:00 AM	19.038	19.041			N/A
10/10/2018	USDMXN	11:30:00 AM	19.071	19.074			N/A
10/10/2018	USDMXN	1:30:00 PM	19.041	19.05			N/A
10/10/2018	USDMXN	3:30:00 PM	19.107	19.106			N/A
10/10/2018	USDNOK	9:30:00 AM	8.2414	8.2487			N/A
10/10/2018	USDNOK	11:30:00 AM	8.2362	8.2443			N/A
10/10/2018	USDNOK	1:30:00 PM	8.2079	8.2163			N/A
10/10/2018	USDNOK	3:30:00 PM	8.2033	8.2102			N/A
10/10/2018	USDPLN	9:30:00 AM	3.7483	3.7484			N/A
10/10/2018	USDPLN	11:30:00 AM	3.7511	3.7521			N/A
10/10/2018	USDPLN	1:30:00 PM	3.7432	3.7448			N/A
10/10/2018	USDPLN	3:30:00 PM	3.7389	3.7393			N/A
10/10/2018	USDRUR	9:30:00 AM					N/A
10/10/2018	USDRUR	11:30:00 AM	66.005	66.373			N/A
10/10/2018	USDRUR	1:30:00 PM	65.883	66.27			N/A
10/10/2018	USDRUR	3:30:00 PM	65.979	66.33			N/A
10/10/2018	USDSEK	9:30:00 AM	9.0942	9.0983			N/A
10/10/2018	USDSEK	11:30:00 AM	9.0955	9.0994			N/A
10/10/2018	USDSEK	1:30:00 PM	9.111	9.1141			N/A
10/10/2018	USDSEK	3:30:00 PM	9.0944	9.0955			N/A
10/10/2018	USDSGD	9:30:00 AM	1.3812	1.3815			N/A

10/10/2018	USDSGD	11:30:00 AM	1.3828	1.3831			N/A
10/10/2018	USDSGD	1:30:00 PM	1.3825	1.3829			N/A
10/10/2018	USDSGD	3:30:00 PM	1.3828	1.3831			N/A
10/10/2018	USDZAR	9:30:00 AM	14.6208	14.6311			N/A
10/10/2018	USDZAR	11:30:00 AM	14.6578	14.6692			N/A
10/10/2018	USDZAR	1:30:00 PM	14.6208	14.638			N/A
10/10/2018	USDZAR	3:30:00 PM	14.6122	14.6175			N/A
10/10/2018	XAUUSD	9:30:00 AM	1188.67	1188.69			N/A
10/10/2018	XAUUSD	11:30:00 AM	1186.55	1186.57			N/A
10/10/2018	XAUUSD	1:30:00 PM	1189.17	1189.39			N/A
10/10/2018	XAUUSD	3:30:00 PM	1188.17	1188.38			N/A
10/10/2018	ZARJPY	9:30:00 AM	7.68	7.72			N/A
10/10/2018	ZARJPY	11:30:00 AM	7.68	7.69			N/A
10/10/2018	ZARJPY	1:30:00 PM					N/A
10/10/2018	ZARJPY	3:30:00 PM	7.67	7.71			N/A
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10/11/2018	#AA	11:30:00 AM					N/A
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10/11/2018	#CMCSA	3:30:00 PM					N/A
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10/11/2018	AUDMXN	11:30:00 AM	13.5112	13.5194			N/A
10/11/2018	AUDMXN	1:30:00 PM	13.5072	13.5155			N/A
10/11/2018	AUDMXN	3:30:00 PM	13.5452	13.5511			N/A
10/11/2018	AUDNOK	9:30:00 AM	5.825	5.8176			N/A
10/11/2018	AUDNOK	11:30:00 AM	5.8245	5.8284			N/A
10/11/2018	AUDNOK	1:30:00 PM	5.8249	5.8299			N/A
10/11/2018	AUDNOK	3:30:00 PM	5.8344	5.8383			N/A
10/11/2018	AUDNZD	9:30:00 AM	1.0936	1.09405			N/A
10/11/2018	AUDNZD	11:30:00 AM	1.09298	1.09385			N/A
10/11/2018	AUDNZD	1:30:00 PM	1.09317	1.09406			N/A
10/11/2018	AUDNZD	3:30:00 PM	1.09218	1.09281			N/A
10/11/2018	AUDPLN	9:30:00 AM	2.6456	2.648			N/A
10/11/2018	AUDPLN	11:30:00 AM	2.6482	2.6513			N/A
10/11/2018	AUDPLN	1:30:00 PM	2.6447	2.6476			N/A
10/11/2018	AUDPLN	3:30:00 PM	2.6498	2.6522			N/A
10/11/2018	AUDSEK	9:30:00 AM	6.4476	6.4239			N/A
10/11/2018	AUDSEK	11:30:00 AM	6.3724	6.376			N/A
10/11/2018	AUDSEK	1:30:00 PM	6.3836	6.3853			N/A
10/11/2018	AUDSEK	3:30:00 PM	6.3954	6.3969			N/A
10/11/2018	AUDSGD	9:30:00 AM	0.9794	0.9795			N/A
10/11/2018	AUDSGD	11:30:00 AM	0.9788	0.9791			N/A
10/11/2018	AUDSGD	1:30:00 PM	0.9788	0.9791			N/A
10/11/2018	AUDSGD	3:30:00 PM	0.98	0.9799			N/A
10/11/2018	AUDUSD	9:30:00 AM	0.70937	0.70901			N/A
10/11/2018	AUDUSD	11:30:00 AM	0.70888	0.70896			N/A
10/11/2018	AUDUSD	1:30:00 PM	0.70983	0.70993			N/A
10/11/2018	AUDUSD	3:30:00 PM	0.71087	0.71058			N/A
10/11/2018	AUDZAR	9:30:00 AM	10.3626	10.3695			N/A
10/11/2018	AUDZAR	11:30:00 AM	10.3852	10.3934			N/A
10/11/2018	AUDZAR	1:30:00 PM	10.3598	10.3749			N/A
10/11/2018	AUDZAR	3:30:00 PM	10.3596	10.3668			N/A
10/11/2018	CADCHF	9:30:00 AM	0.75791	0.75857			N/A
10/11/2018	CADCHF	11:30:00 AM	0.75752	0.75819			N/A
10/11/2018	CADCHF	1:30:00 PM	0.75703	0.75775			N/A
10/11/2018	CADCHF	3:30:00 PM	0.75719	0.7573			N/A
10/11/2018	CADCZK	9:30:00 AM	17.172	17.178			N/A
10/11/2018	CADCZK	11:30:00 AM	17.153	17.169			N/A
10/11/2018	CADCZK	1:30:00 PM	17.114	17.13			N/A
10/11/2018	CADCZK	3:30:00 PM	17.113	17.124			N/A
10/11/2018	CADDKK	9:30:00 AM	4.955	4.958			N/A

10/11/2018	CADDKK	11:30:00 AM	4.949	4.952			N/A
10/11/2018	CADDKK	1:30:00 PM	4.941	4.945			N/A
10/11/2018	CADDKK	3:30:00 PM	4.944	4.948			N/A
10/11/2018	CADHKD	9:30:00 AM	6.0097	6.0136			N/A
10/11/2018	CADHKD	11:30:00 AM	6.0012	6.0051			N/A
10/11/2018	CADHKD	1:30:00 PM	6.0079	6.0111			N/A
10/11/2018	CADHKD	3:30:00 PM	6.0056	6.0069			N/A
10/11/2018	CADHUF	9:30:00 AM	215.82	215.89			N/A
10/11/2018	CADHUF	11:30:00 AM	215.61	215.79			N/A
10/11/2018	CADHUF	1:30:00 PM	215.19	215.33			N/A
10/11/2018	CADHUF	3:30:00 PM	215.21	215.33			N/A
10/11/2018	CADJPY	9:30:00 AM	86.147	86.185			N/A
10/11/2018	CADJPY	11:30:00 AM	85.975	86.027			N/A
10/11/2018	CADJPY	1:30:00 PM	86.042	86.094			N/A
10/11/2018	CADJPY	3:30:00 PM	86.139	86.088			N/A
10/11/2018	CADMXN	9:30:00 AM	14.6383	14.6444			N/A
10/11/2018	CADMXN	11:30:00 AM	14.6103	14.621			N/A
10/11/2018	CADMXN	1:30:00 PM	14.5991	14.6088			N/A
10/11/2018	CADMXN	3:30:00 PM	14.6139	14.6233			N/A
10/11/2018	CADNOK	9:30:00 AM	6.306	6.2966			N/A
10/11/2018	CADNOK	11:30:00 AM	6.2975	6.3017			N/A
10/11/2018	CADNOK	1:30:00 PM	6.2965	6.2997			N/A
10/11/2018	CADNOK	3:30:00 PM	6.2951	6.2984			N/A
10/11/2018	CADPLN	9:30:00 AM	2.8631	2.864			N/A
10/11/2018	CADPLN	11:30:00 AM	2.863	2.8648			N/A
10/11/2018	CADPLN	1:30:00 PM	2.8576	2.8593			N/A
10/11/2018	CADPLN	3:30:00 PM	2.8584	2.8603			N/A
10/11/2018	CADSEK	9:30:00 AM	6.9714	6.9503			N/A
10/11/2018	CADSEK	11:30:00 AM	6.8883	6.8923			N/A
10/11/2018	CADSEK	1:30:00 PM	6.8988	6.8991			N/A
10/11/2018	CADSEK	3:30:00 PM	6.8982	6.901			N/A
10/11/2018	CADSGD	9:30:00 AM	1.0599	1.0603			N/A
10/11/2018	CADSGD	11:30:00 AM	1.058	1.0583			N/A
10/11/2018	CADSGD	1:30:00 PM	1.0578	1.0581			N/A
10/11/2018	CADSGD	3:30:00 PM	1.0569	1.0573			N/A
10/11/2018	CADZAR	9:30:00 AM	11.2099	11.2146			N/A
10/11/2018	CADZAR	11:30:00 AM	11.2206	11.2324			N/A
10/11/2018	CADZAR	1:30:00 PM	11.1914	11.2075			N/A
10/11/2018	CADZAR	3:30:00 PM	11.1704	11.1808			N/A
10/11/2018	CHFCZK	9:30:00 AM	22.652	22.657			N/A
10/11/2018	CHFCZK	11:30:00 AM	22.64	22.653			N/A
10/11/2018	CHFCZK	1:30:00 PM	22.6	22.615			N/A
10/11/2018	CHFCZK	3:30:00 PM	22.604	22.61			N/A
10/11/2018	CHFDKK	9:30:00 AM	6.535	6.538			N/A
10/11/2018	CHFDKK	11:30:00 AM					N/A
10/11/2018	CHFDKK	1:30:00 PM	6.524	6.528			N/A
10/11/2018	CHFDKK	3:30:00 PM	6.528	6.531			N/A
10/11/2018	CHFHKD	9:30:00 AM	7.9284	7.9298			N/A
10/11/2018	CHFHKD	11:30:00 AM	7.9204	7.9233			N/A
10/11/2018	CHFHKD	1:30:00 PM	7.9344	7.938			N/A

10/11/2018	CHFHKD	3:30:00 PM	7.9313	7.9333			N/A
10/11/2018	CHFHUF	9:30:00 AM	284.56	284.85			N/A
10/11/2018	CHFHUF	11:30:00 AM	284.46	284.84			N/A
10/11/2018	CHFHUF	1:30:00 PM	284.05	284.44			N/A
10/11/2018	CHFHUF	3:30:00 PM	284.19	284.4			N/A
10/11/2018	CHFJPY	9:30:00 AM	113.569	113.609			N/A
10/11/2018	CHFJPY	11:30:00 AM	113.394	113.463			N/A
10/11/2018	CHFJPY	1:30:00 PM	113.56	113.604			N/A
10/11/2018	CHFJPY	3:30:00 PM	113.679	113.668			N/A
10/11/2018	CHFMXN	9:30:00 AM	19.305	19.3131			N/A
10/11/2018	CHFMXN	11:30:00 AM	19.2777	19.289			N/A
10/11/2018	CHFMXN	1:30:00 PM	19.2754	19.2885			N/A
10/11/2018	CHFMXN	3:30:00 PM	19.3065	19.3033			N/A
10/11/2018	CHFNOK	9:30:00 AM	8.3191	8.3123			N/A
10/11/2018	CHFNOK	11:30:00 AM	8.3103	8.3156			N/A
10/11/2018	CHFNOK	1:30:00 PM	8.3132	8.32			N/A
10/11/2018	CHFNOK	3:30:00 PM	8.3144	8.3185			N/A
10/11/2018	CHFPLN	9:30:00 AM	3.7766	3.7775			N/A
10/11/2018	CHFPLN	11:30:00 AM	3.778	3.7808			N/A
10/11/2018	CHFPLN	1:30:00 PM	3.7738	3.7766			N/A
10/11/2018	CHFPLN	3:30:00 PM	3.7757	3.7774			N/A
10/11/2018	CHFSEK	9:30:00 AM	9.2024	9.1672			N/A
10/11/2018	CHFSEK	11:30:00 AM	9.092	9.096			N/A
10/11/2018	CHFSEK	1:30:00 PM	9.1111	9.1113			N/A
10/11/2018	CHFSEK	3:30:00 PM	9.1137	9.1118			N/A
10/11/2018	CHFSGD	9:30:00 AM	1.3979	1.3981			N/A
10/11/2018	CHFSGD	11:30:00 AM	1.3963	1.3967			N/A
10/11/2018	CHFSGD	1:30:00 PM	1.3965	1.3968			N/A
10/11/2018	CHFSGD	3:30:00 PM	1.3961	1.396			N/A
10/11/2018	CHFZAR	9:30:00 AM	14.7902	14.788			N/A
10/11/2018	CHFZAR	11:30:00 AM	14.8111	14.8169			N/A
10/11/2018	CHFZAR	1:30:00 PM	14.7815	14.7955			N/A
10/11/2018	CHFZAR	3:30:00 PM	14.7599	14.7574			N/A
10/11/2018	CZKJPY	9:30:00 AM	5.016	5.02			N/A
10/11/2018	CZKJPY	11:30:00 AM	5.011	5.014			N/A
10/11/2018	CZKJPY	1:30:00 PM	5.026	5.029			N/A
10/11/2018	CZKJPY	3:30:00 PM	5.033	5.032			N/A
10/11/2018	DKKJPY	9:30:00 AM	17.39	17.4			N/A
10/11/2018	DKKJPY	11:30:00 AM	17.38	17.39			N/A
10/11/2018	DKKJPY	1:30:00 PM	17.42	17.43			N/A
10/11/2018	DKKJPY	3:30:00 PM	17.43	17.44			N/A
10/11/2018	EURAUD	9:30:00 AM	1.6289	1.62877			N/A
10/11/2018	EURAUD	11:30:00 AM	1.62913	1.62951			N/A
10/11/2018	EURAUD	1:30:00 PM	1.63101	1.63123			N/A
10/11/2018	EURAUD	3:30:00 PM	1.62796	1.62782			N/A
10/11/2018	EURCAD	9:30:00 AM	1.50555	1.50567			N/A
10/11/2018	EURCAD	11:30:00 AM	1.50727	1.50802			N/A
10/11/2018	EURCAD	1:30:00 PM	1.50954	1.51027			N/A
10/11/2018	EURCAD	3:30:00 PM	1.50925	1.5095			N/A
10/11/2018	EURCHF	9:30:00 AM	1.14145	1.14113			N/A

10/11/2018	EURCHF	11:30:00 AM	1.14227	1.1423			N/A
10/11/2018	EURCHF	1:30:00 PM	1.14325	1.14329		600	N/A
10/11/2018	EURCHF	3:30:00 PM	1.14262	1.14274			N/A
10/11/2018	EURCZK	9:30:00 AM	25.839	25.872			N/A
10/11/2018	EURCZK	11:30:00 AM	25.853	25.887			N/A
10/11/2018	EURCZK	1:30:00 PM	25.832	25.869			N/A
10/11/2018	EURCZK	3:30:00 PM	25.818	25.854			N/A
10/11/2018	EURDKK	9:30:00 AM	7.4595	7.4607			N/A
10/11/2018	EURDKK	11:30:00 AM	7.4593	7.4604			N/A
10/11/2018	EURDKK	1:30:00 PM	7.4594	7.4606			N/A
10/11/2018	EURDKK	3:30:00 PM	7.4593	7.4603			N/A
10/11/2018	EURGBP	9:30:00 AM	0.87508	0.87496			N/A
10/11/2018	EURGBP	11:30:00 AM	0.87507	0.87523			N/A
10/11/2018	EURGBP	1:30:00 PM	0.87535	0.87541			N/A
10/11/2018	EURGBP	3:30:00 PM	0.87412	0.8741			N/A
10/11/2018	EURHKD	9:30:00 AM	9.0494	9.0482			N/A
10/11/2018	EURHKD	11:30:00 AM	9.0457	9.0511			N/A
10/11/2018	EURHKD	1:30:00 PM	9.0704	9.0739			N/A
10/11/2018	EURHKD	3:30:00 PM	9.0619	9.0648			N/A
10/11/2018	EURHUF	9:30:00 AM	324.6	325.31			N/A
10/11/2018	EURHUF	11:30:00 AM	324.73	325.47			N/A
10/11/2018	EURHUF	1:30:00 PM	324.63	325.37			N/A
10/11/2018	EURHUF	3:30:00 PM	324.54	325.22			N/A
10/11/2018	EURJPY	9:30:00 AM	129.686	129.66			N/A
10/11/2018	EURJPY	11:30:00 AM	129.606	129.598			N/A
10/11/2018	EURJPY	1:30:00 PM	129.911	129.882			N/A
10/11/2018	EURJPY	3:30:00 PM	130.008	129.851			N/A
10/11/2018	EURMXN	9:30:00 AM	22.034	22.0438			N/A
10/11/2018	EURMXN	11:30:00 AM	22.0222	22.0374			N/A
10/11/2018	EURMXN	1:30:00 PM	22.0385	22.052			N/A
10/11/2018	EURMXN	3:30:00 PM	22.057	22.0622			N/A
10/11/2018	EURNOK	9:30:00 AM	9.491	9.4852			N/A
10/11/2018	EURNOK	11:30:00 AM	9.4909	9.5008			N/A
10/11/2018	EURNOK	1:30:00 PM	9.5029	9.5132			N/A
10/11/2018	EURNOK	3:30:00 PM	9.4977	9.5093			N/A
10/11/2018	EURNZD	9:30:00 AM	1.78181	1.78165			N/A
10/11/2018	EURNZD	11:30:00 AM	1.78136	1.78214			N/A
10/11/2018	EURNZD	1:30:00 PM	1.78379	1.78432			N/A
10/11/2018	EURNZD	3:30:00 PM	1.77853	1.7789			N/A
10/11/2018	EURPLN	9:30:00 AM	4.3097	4.3122			N/A
10/11/2018	EURPLN	11:30:00 AM	4.3157	4.3185			N/A
10/11/2018	EURPLN	1:30:00 PM	4.3148	4.3176			N/A
10/11/2018	EURPLN	3:30:00 PM	4.3136	4.3167			N/A
10/11/2018	EURRUR	9:30:00 AM					N/A
10/11/2018	EURRUR	11:30:00 AM	76.768	77.188			N/A
10/11/2018	EURRUR	1:30:00 PM	76.505	76.921			N/A
10/11/2018	EURRUR	3:30:00 PM	76.379	76.752			N/A
10/11/2018	EURSEK	9:30:00 AM	10.5013	10.4562			N/A
10/11/2018	EURSEK	11:30:00 AM	10.3842	10.3892			N/A
10/11/2018	EURSEK	1:30:00 PM	10.4165	10.4163			N/A

10/11/2018	EURSEK	3:30:00 PM	10.4104	10.4139			N/A
10/11/2018	EURSGD	9:30:00 AM	1.5952	1.5955			N/A
10/11/2018	EURSGD	11:30:00 AM	1.5947	1.5955			N/A
10/11/2018	EURSGD	1:30:00 PM	1.5965	1.5971			N/A
10/11/2018	EURSGD	3:30:00 PM	1.5949	1.5955			N/A
10/11/2018	EURUSD	9:30:00 AM	1.15504	1.15433			N/A
10/11/2018	EURUSD	11:30:00 AM	1.15453	1.15466			N/A
10/11/2018	EURUSD	1:30:00 PM	1.15755	1.15744			N/A
10/11/2018	EURUSD	3:30:00 PM	1.15666	1.15646		1000	N/A
10/11/2018	EURZAR	9:30:00 AM	16.8814	16.8839			N/A
10/11/2018	EURZAR	11:30:00 AM	16.9216	16.9309			N/A
10/11/2018	EURZAR	1:30:00 PM	16.9009	16.9184			N/A
10/11/2018	EURZAR	3:30:00 PM	16.8658	16.872			N/A
10/11/2018	GBPAUD	9:30:00 AM	1.86123	1.86141			N/A
10/11/2018	GBPAUD	11:30:00 AM	1.86137	1.86201			N/A
10/11/2018	GBPAUD	1:30:00 PM	1.86292	1.86353			N/A
10/11/2018	GBPAUD	3:30:00 PM	1.86203	1.86228			N/A
10/11/2018	GBPCAD	9:30:00 AM	1.72002	1.72032			N/A
10/11/2018	GBPCAD	11:30:00 AM	1.72189	1.72267			N/A
10/11/2018	GBPCAD	1:30:00 PM	1.72402	1.7248			N/A
10/11/2018	GBPCAD	3:30:00 PM	1.72605	1.72647			N/A
10/11/2018	GBPCHF	9:30:00 AM	1.30417	1.30436			N/A
10/11/2018	GBPCHF	11:30:00 AM	1.30503	1.30546			N/A
10/11/2018	GBPCHF	1:30:00 PM	1.30585	1.30624			N/A
10/11/2018	GBPCHF	3:30:00 PM	1.30722	1.30725			N/A
10/11/2018	GBPCZK	9:30:00 AM	29.538	29.546			N/A
10/11/2018	GBPCZK	11:30:00 AM	29.542	29.561			N/A
10/11/2018	GBPCZK	1:30:00 PM	29.511	29.531			N/A
10/11/2018	GBPCZK	3:30:00 PM	29.537	29.556			N/A
10/11/2018	GBPDKK	9:30:00 AM	8.522	8.532			N/A
10/11/2018	GBPDKK	11:30:00 AM	8.52	8.532			N/A
10/11/2018	GBPDKK	1:30:00 PM	8.518	8.53			N/A
10/11/2018	GBPDKK	3:30:00 PM	8.531	8.542			N/A
10/11/2018	GBPHKD	9:30:00 AM	10.3395	10.3407			N/A
10/11/2018	GBPHKD	11:30:00 AM	10.3349	10.3404			N/A
10/11/2018	GBPHKD	1:30:00 PM	10.3599	10.3655			N/A
10/11/2018	GBPHKD	3:30:00 PM	10.3658	10.3683			N/A
10/11/2018	GBPHUF	9:30:00 AM	371.05	371.46			N/A
10/11/2018	GBPHUF	11:30:00 AM	371.19	371.68			N/A
10/11/2018	GBPHUF	1:30:00 PM	370.91	371.39			N/A
10/11/2018	GBPHUF	3:30:00 PM	371.35	371.8			N/A
10/11/2018	GBPJPY	9:30:00 AM	148.216	148.224			N/A
10/11/2018	GBPJPY	11:30:00 AM	148.107	148.131			N/A
10/11/2018	GBPJPY	1:30:00 PM	148.406	148.421	100	100	N/A
10/11/2018	GBPJPY	3:30:00 PM	148.742	148.58			N/A
10/11/2018	GBPMXN	9:30:00 AM	25.1737	25.182			N/A
10/11/2018	GBPMXN	11:30:00 AM	25.1574	25.1699			N/A
10/11/2018	GBPMXN	1:30:00 PM	25.17	25.1823			N/A
10/11/2018	GBPMXN	3:30:00 PM	25.2271	25.2328			N/A
10/11/2018	GBPNOK	9:30:00 AM	10.8495	10.8387			N/A

10/11/2018	GBPNOK	11:30:00 AM	10.8462	10.8553			N/A
10/11/2018	GBPNOK	1:30:00 PM	10.8574	10.8668			N/A
10/11/2018	GBPNOK	3:30:00 PM	10.8671	10.8766			N/A
10/11/2018	GBPNZD	9:30:00 AM	2.03627	2.03629			N/A
10/11/2018	GBPNZD	11:30:00 AM	2.03559	2.03632			N/A
10/11/2018	GBPNZD	1:30:00 PM	2.03777	2.03833			N/A
10/11/2018	GBPNZD	3:30:00 PM	2.03472	2.03506			N/A
10/11/2018	GBPPLN	9:30:00 AM	4.9261	4.9265			N/A
10/11/2018	GBPPLN	11:30:00 AM	4.9323	4.9337			N/A
10/11/2018	GBPPLN	1:30:00 PM	4.9301	4.9312			N/A
10/11/2018	GBPPLN	3:30:00 PM	4.936	4.9375			N/A
10/11/2018	GBPSEK	9:30:00 AM	12.0014	11.9521			N/A
10/11/2018	GBPSEK	11:30:00 AM	11.8631	11.873			N/A
10/11/2018	GBPSEK	1:30:00 PM	11.8979	11.9011			N/A
10/11/2018	GBPSEK	3:30:00 PM	11.9092	11.916			N/A
10/11/2018	GBPSGD	9:30:00 AM	1.8229	1.8235			N/A
10/11/2018	GBPSGD	11:30:00 AM	1.8222	1.8231			N/A
10/11/2018	GBPSGD	1:30:00 PM	1.8238	1.8245			N/A
10/11/2018	GBPSGD	3:30:00 PM	1.8248	1.8251			N/A
10/11/2018	GBPUSD	9:30:00 AM	1.31995	1.3194			N/A
10/11/2018	GBPUSD	11:30:00 AM	1.3193	1.31943			N/A
10/11/2018	GBPUSD	1:30:00 PM	1.32234	1.32234			N/A
10/11/2018	GBPUSD	3:30:00 PM	1.32335	1.32294			N/A
10/11/2018	GBPZAR	9:30:00 AM	19.288	19.2968			N/A
10/11/2018	GBPZAR	11:30:00 AM	19.3332	19.3495			N/A
10/11/2018	GBPZAR	1:30:00 PM	19.3042	19.3311			N/A
10/11/2018	GBPZAR	3:30:00 PM	19.2917	19.3064			N/A
10/11/2018	GOLD	9:30:00 AM	1197.35	1197.2			N/A
10/11/2018	GOLD	11:30:00 AM	1200.54	1200.6			N/A
10/11/2018	GOLD	1:30:00 PM	1203.52	1203.63			N/A
10/11/2018	GOLD	3:30:00 PM	1206.74	1206.63			N/A
10/11/2018	HKDJPY	9:30:00 AM	14.33	14.35			N/A
10/11/2018	HKDJPY	11:30:00 AM	14.32	14.34			N/A
10/11/2018	HKDJPY	1:30:00 PM					N/A
10/11/2018	HKDJPY	3:30:00 PM	14.34	14.36			N/A
10/11/2018	HUFJPY	9:30:00 AM	0.3993	0.3996			N/A
10/11/2018	HUFJPY	11:30:00 AM	0.3988	0.3991			N/A
10/11/2018	HUFJPY	1:30:00 PM					N/A
10/11/2018	HUFJPY	3:30:00 PM	0.4	0.4003			N/A
10/11/2018	MXNJPY	9:30:00 AM	5.89	5.9			N/A
10/11/2018	MXNJPY	11:30:00 AM	5.88	5.9			N/A
10/11/2018	MXNJPY	1:30:00 PM	5.89	5.91			N/A
10/11/2018	MXNJPY	3:30:00 PM	5.9	5.92			N/A
10/11/2018	NOKJPY	9:30:00 AM	13.67	13.7			N/A
10/11/2018	NOKJPY	11:30:00 AM					N/A
10/11/2018	NOKJPY	1:30:00 PM	13.65	13.69			N/A
10/11/2018	NOKJPY	3:30:00 PM					N/A
10/11/2018	NZDCAD	9:30:00 AM	0.84444	0.84492			N/A
10/11/2018	NZDCAD	11:30:00 AM	0.84557	0.84631			N/A
10/11/2018	NZDCAD	1:30:00 PM	0.84575	0.84642			N/A

10/11/2018	NZDCAD	3:30:00 PM	0.84811	0.84859			N/A
10/11/2018	NZDCHF	9:30:00 AM	0.64026	0.6407			N/A
10/11/2018	NZDCHF	11:30:00 AM	0.64077	0.64143			N/A
10/11/2018	NZDCHF	1:30:00 PM	0.64052	0.64113			N/A
10/11/2018	NZDCHF	3:30:00 PM	0.64231	0.64253			N/A
10/11/2018	NZDCZK	9:30:00 AM	14.505	14.507			N/A
10/11/2018	NZDCZK	11:30:00 AM	14.508	14.52			N/A
10/11/2018	NZDCZK	1:30:00 PM	14.478	14.489			N/A
10/11/2018	NZDCZK	3:30:00 PM	14.514	14.525			N/A
10/11/2018	NZDDKK	9:30:00 AM	4.186	4.188			N/A
10/11/2018	NZDDKK	11:30:00 AM					N/A
10/11/2018	NZDDKK	1:30:00 PM					N/A
10/11/2018	NZDDKK	3:30:00 PM	4.192	4.196			N/A
10/11/2018	NZDHKD	9:30:00 AM	5.0753	5.0775			N/A
10/11/2018	NZDHKD	11:30:00 AM	5.0755	5.0784			N/A
10/11/2018	NZDHKD	1:30:00 PM	5.0819	5.0849			N/A
10/11/2018	NZDHKD	3:30:00 PM	5.0931	5.0936			N/A
10/11/2018	NZDHUF	9:30:00 AM	182.2	182.41			N/A
10/11/2018	NZDHUF	11:30:00 AM	182.26	182.56			N/A
10/11/2018	NZDHUF	1:30:00 PM	181.95	182.23			N/A
10/11/2018	NZDHUF	3:30:00 PM	182.43	182.71			N/A
10/11/2018	NZDJPY	9:30:00 AM	72.77	72.806			N/A
10/11/2018	NZDJPY	11:30:00 AM	72.721	72.779			N/A
10/11/2018	NZDJPY	1:30:00 PM	72.796	72.844			N/A
10/11/2018	NZDJPY	3:30:00 PM	73.072	73.038			N/A
10/11/2018	NZDMXN	9:30:00 AM	12.3616	12.3626			N/A
10/11/2018	NZDMXN	11:30:00 AM	12.3547	12.3601			N/A
10/11/2018	NZDMXN	1:30:00 PM	12.3483	12.3533			N/A
10/11/2018	NZDMXN	3:30:00 PM	12.3969	12.398			N/A
10/11/2018	NZDNOK	9:30:00 AM	5.3253	5.3176			N/A
10/11/2018	NZDNOK	11:30:00 AM	5.3255	5.3287			N/A
10/11/2018	NZDNOK	1:30:00 PM	5.325	5.3286			N/A
10/11/2018	NZDNOK	3:30:00 PM	5.3391	5.3407			N/A
10/11/2018	NZDPLN	9:30:00 AM	2.4179	2.4186			N/A
10/11/2018	NZDPLN	11:30:00 AM	2.4214	2.4228			N/A
10/11/2018	NZDPLN	1:30:00 PM	2.4172	2.4186			N/A
10/11/2018	NZDPLN	3:30:00 PM	2.424	2.4254			N/A
10/11/2018	NZDSEK	9:30:00 AM	5.8842	5.8705			N/A
10/11/2018	NZDSEK	11:30:00 AM	5.8232	5.83			N/A
10/11/2018	NZDSEK	1:30:00 PM	5.8329	5.8373			N/A
10/11/2018	NZDSEK	3:30:00 PM	5.8487	5.8535			N/A
10/11/2018	NZDSGD	9:30:00 AM	0.8951	0.8958			N/A
10/11/2018	NZDSGD	11:30:00 AM	0.895	0.8957			N/A
10/11/2018	NZDSGD	1:30:00 PM	0.8949	0.8955			N/A
10/11/2018	NZDSGD	3:30:00 PM	0.8968	0.8973			N/A
10/11/2018	NZDUSD	9:30:00 AM	0.6478	0.64772			N/A
10/11/2018	NZDUSD	11:30:00 AM	0.64773	0.64787			N/A
10/11/2018	NZDUSD	1:30:00 PM	0.6485	0.64861			N/A
10/11/2018	NZDUSD	3:30:00 PM	0.65004	0.64992			N/A
10/11/2018	NZDZAR	9:30:00 AM	9.4645	9.4719			N/A

10/11/2018	NZDZAR	11:30:00 AM	9.4877	9.4997			N/A
10/11/2018	NZDZAR	1:30:00 PM	9.4638	9.4818			N/A
10/11/2018	NZDZAR	3:30:00 PM	9.4732	9.4838			N/A
10/11/2018	SEKJPY	9:30:00 AM	12.4	12.37			N/A
10/11/2018	SEKJPY	11:30:00 AM					N/A
10/11/2018	SEKJPY	1:30:00 PM	12.47	12.49			N/A
10/11/2018	SEKJPY	3:30:00 PM	12.49	12.49			N/A
10/11/2018	SGDJPY	9:30:00 AM	81.28	81.29			N/A
10/11/2018	SGDJPY	11:30:00 AM	81.23	81.26			N/A
10/11/2018	SGDJPY	1:30:00 PM	81.34	81.36			N/A
10/11/2018	SGDJPY	3:30:00 PM	81.47	81.42			N/A
10/11/2018	SILVER	9:30:00 AM	14.18	14.56			N/A
10/11/2018	SILVER	11:30:00 AM	14.19	14.58			N/A
10/11/2018	SILVER	1:30:00 PM	14.18	14.56			N/A
10/11/2018	SILVER	3:30:00 PM	14.24	14.62			N/A
10/11/2018	USDCAD	9:30:00 AM	1.30364	1.30358			N/A
10/11/2018	USDCAD	11:30:00 AM	1.30546	1.3055			N/A
10/11/2018	USDCAD	1:30:00 PM	1.30414	1.30421			N/A
10/11/2018	USDCAD	3:30:00 PM	1.30515	1.30451			N/A
10/11/2018	USDCHF	9:30:00 AM	0.9884	0.98831			N/A
10/11/2018	USDCHF	11:30:00 AM	0.98924	0.98934			N/A
10/11/2018	USDCHF	1:30:00 PM	0.98769	0.9877			N/A
10/11/2018	USDCHF	3:30:00 PM	0.98787	0.9882			N/A
10/11/2018	USDCZK	9:30:00 AM	22.386	22.394			N/A
10/11/2018	USDCZK	11:30:00 AM	22.391	22.413			N/A
10/11/2018	USDCZK	1:30:00 PM	22.318	22.339			N/A
10/11/2018	USDCZK	3:30:00 PM	22.326	22.344			N/A
10/11/2018	USDDKK	9:30:00 AM	6.4629	6.4639			N/A
10/11/2018	USDDKK	11:30:00 AM	6.461	6.4666			N/A
10/11/2018	USDDKK	1:30:00 PM	6.4458	6.4501			N/A
10/11/2018	USDDKK	3:30:00 PM	6.4515	6.4553			N/A
10/11/2018	USDHKD	9:30:00 AM					N/A
10/11/2018	USDHKD	11:30:00 AM	7.8363	7.8368			N/A
10/11/2018	USDHKD	1:30:00 PM					N/A
10/11/2018	USDHKD	3:30:00 PM					N/A
10/11/2018	USDHUF	9:30:00 AM	281.29	281.55			N/A
10/11/2018	USDHUF	11:30:00 AM	281.38	281.85			N/A
10/11/2018	USDHUF	1:30:00 PM	280.55	280.96			N/A
10/11/2018	USDHUF	3:30:00 PM	280.72	281.07			N/A
10/11/2018	USDJPY	9:30:00 AM	112.357	112.311			N/A
10/11/2018	USDJPY	11:30:00 AM	112.284	112.282			N/A
10/11/2018	USDJPY	1:30:00 PM	112.264	112.256			N/A
10/11/2018	USDJPY	3:30:00 PM	112.424	112.322			N/A
10/11/2018	USDMXN	9:30:00 AM	19.087	19.084			N/A
10/11/2018	USDMXN	11:30:00 AM	19.077	19.083			N/A
10/11/2018	USDMXN	1:30:00 PM	19.043	19.048			N/A
10/11/2018	USDMXN	3:30:00 PM	19.078	19.07			N/A
10/11/2018	USDNOK	9:30:00 AM	8.2242	8.2172			N/A
10/11/2018	USDNOK	11:30:00 AM	8.2213	8.2287			N/A
10/11/2018	USDNOK	1:30:00 PM	8.2121	8.219			N/A

10/11/2018	USDNOK	3:30:00 PM	8.2139	8.2205			N/A
10/11/2018	USDPLN	9:30:00 AM	3.7337	3.7324			N/A
10/11/2018	USDPLN	11:30:00 AM	3.7383	3.7394			N/A
10/11/2018	USDPLN	1:30:00 PM	3.7285	3.729			N/A
10/11/2018	USDPLN	3:30:00 PM	3.7308	3.7311			N/A
10/11/2018	USDRUR	9:30:00 AM					N/A
10/11/2018	USDRUR	11:30:00 AM	66.568	66.941			N/A
10/11/2018	USDRUR	1:30:00 PM	66.192	66.54			N/A
10/11/2018	USDRUR	3:30:00 PM	66.135	66.451			N/A
10/11/2018	USDSEK	9:30:00 AM	9.0905	9.0551			N/A
10/11/2018	USDSEK	11:30:00 AM	8.9912	8.9967			N/A
10/11/2018	USDSEK	1:30:00 PM	8.9978	8.9972			N/A
10/11/2018	USDSEK	3:30:00 PM	9.0001	9.0017			N/A
10/11/2018	USDSGD	9:30:00 AM	1.3816	1.3815			N/A
10/11/2018	USDSGD	11:30:00 AM	1.3812	1.3816			N/A
10/11/2018	USDSGD	1:30:00 PM					N/A
10/11/2018	USDSGD	3:30:00 PM	1.379	1.3793			N/A
10/11/2018	USDZAR	9:30:00 AM	14.6221	14.6191			N/A
10/11/2018	USDZAR	11:30:00 AM	14.6542	14.6637			N/A
10/11/2018	USDZAR	1:30:00 PM	14.6018	14.6173			N/A
10/11/2018	USDZAR	3:30:00 PM	14.5827	14.5867			N/A
10/11/2018	XAUUSD	9:30:00 AM	1197.35	1197.2			N/A
10/11/2018	XAUUSD	11:30:00 AM	1200.54	1200.6			N/A
10/11/2018	XAUUSD	1:30:00 PM	1203.51	1203.63			N/A
10/11/2018	XAUUSD	3:30:00 PM	1206.74	1206.61			N/A
10/11/2018	ZARJPY	9:30:00 AM	7.64	7.67			N/A
10/11/2018	ZARJPY	11:30:00 AM					N/A
10/11/2018	ZARJPY	1:30:00 PM	7.62	7.66			N/A
10/11/2018	ZARJPY	3:30:00 PM					N/A
10/12/2018	#AA	9:30:00 AM					N/A
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10/12/2018	#BABA	3:30:00 PM					N/A
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10/12/2018	#BP	3:30:00 PM					N/A
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10/12/2018	#DD	3:30:00 PM					N/A
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10/12/2018	#DIS	11:30:00 AM					N/A
10/12/2018	#DIS	1:30:00 PM					N/A
10/12/2018	#DIS	3:30:00 PM					N/A
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10/12/2018	AUDNOK	3:30:00 PM	5.8316	5.8359			N/A
10/12/2018	AUDNZD	9:30:00 AM	1.09161	1.09244			N/A
10/12/2018	AUDNZD	11:30:00 AM	1.09158	1.09245			N/A
10/12/2018	AUDNZD	1:30:00 PM	1.09397	1.09477			N/A
10/12/2018	AUDNZD	3:30:00 PM	1.09407	1.0947			N/A
10/12/2018	AUDPLN	9:30:00 AM	2.6404	2.6433			N/A
10/12/2018	AUDPLN	11:30:00 AM	2.6435	2.6463			N/A
10/12/2018	AUDPLN	1:30:00 PM	2.6424	2.6456			N/A
10/12/2018	AUDPLN	3:30:00 PM	2.6525	2.6542			N/A
10/12/2018	AUDSEK	9:30:00 AM	6.3739	6.3768			N/A
10/12/2018	AUDSEK	11:30:00 AM	6.3719	6.3732			N/A
10/12/2018	AUDSEK	1:30:00 PM	6.3799	6.3829			N/A
10/12/2018	AUDSEK	3:30:00 PM	6.3919	6.3941			N/A
10/12/2018	AUDSGD	9:30:00 AM	0.9794	0.9798			N/A
10/12/2018	AUDSGD	11:30:00 AM	0.9804	0.9807			N/A
10/12/2018	AUDSGD	1:30:00 PM	0.9816	0.982			N/A
10/12/2018	AUDSGD	3:30:00 PM	0.9824	0.9825			N/A
10/12/2018	AUDUSD	9:30:00 AM	0.71254	0.71256			N/A
10/12/2018	AUDUSD	11:30:00 AM	0.7121	0.71208			N/A
10/12/2018	AUDUSD	1:30:00 PM	0.7131	0.71317			N/A

10/12/2018	AUDUSD	3:30:00 PM	0.71375	0.71357			N/A
10/12/2018	AUDZAR	9:30:00 AM	10.302	10.3096			N/A
10/12/2018	AUDZAR	11:30:00 AM	10.2739	10.2836			N/A
10/12/2018	AUDZAR	1:30:00 PM	10.3002	10.3118			N/A
10/12/2018	AUDZAR	3:30:00 PM	10.306	10.2983			N/A
10/12/2018	CADCHF	9:30:00 AM	0.75998	0.76065			N/A
10/12/2018	CADCHF	11:30:00 AM	0.76104	0.76173			N/A
10/12/2018	CADCHF	1:30:00 PM	0.76136	0.76207			N/A
10/12/2018	CADCHF	3:30:00 PM	0.76153	0.76208			N/A
10/12/2018	CADCZK	9:30:00 AM	17.11	17.126			N/A
10/12/2018	CADCZK	11:30:00 AM	17.107	17.12			N/A
10/12/2018	CADCZK	1:30:00 PM	17.093	17.11			N/A
10/12/2018	CADCZK	3:30:00 PM	17.143	17.156			N/A
10/12/2018	CADDDKK	9:30:00 AM					N/A
10/12/2018	CADDDKK	11:30:00 AM					N/A
10/12/2018	CADDDKK	1:30:00 PM					N/A
10/12/2018	CADDDKK	3:30:00 PM	4.96	4.963			N/A
10/12/2018	CADHKD	9:30:00 AM	6.0219	6.0255			N/A
10/12/2018	CADHKD	11:30:00 AM	6.0149	6.0188			N/A
10/12/2018	CADHKD	1:30:00 PM	6.0211	6.025			N/A
10/12/2018	CADHKD	3:30:00 PM	6.02	6.023			N/A
10/12/2018	CADHUF	9:30:00 AM	215.01	215.18			N/A
10/12/2018	CADHUF	11:30:00 AM	215.46	215.57			N/A
10/12/2018	CADHUF	1:30:00 PM	215.27	215.44			N/A
10/12/2018	CADHUF	3:30:00 PM	215.56	215.69			N/A
10/12/2018	CADJPY	9:30:00 AM	86.349	86.395			N/A
10/12/2018	CADJPY	11:30:00 AM	86.237	86.292			N/A
10/12/2018	CADJPY	1:30:00 PM	86.289	86.346			N/A
10/12/2018	CADJPY	3:30:00 PM	86.282	86.295			N/A
10/12/2018	CADMXN	9:30:00 AM	14.5246	14.5358			N/A
10/12/2018	CADMXN	11:30:00 AM	14.4834	14.4947			N/A
10/12/2018	CADMXN	1:30:00 PM	14.529	14.5405			N/A
10/12/2018	CADMXN	3:30:00 PM	14.4905	14.4987			N/A
10/12/2018	CADNOK	9:30:00 AM	6.2867	6.2908			N/A
10/12/2018	CADNOK	11:30:00 AM	6.2835	6.2869			N/A
10/12/2018	CADNOK	1:30:00 PM	6.2876	6.2915			N/A
10/12/2018	CADNOK	3:30:00 PM	6.2846	6.2874			N/A
10/12/2018	CADPLN	9:30:00 AM	2.85	2.8519			N/A
10/12/2018	CADPLN	11:30:00 AM	2.853	2.8543			N/A
10/12/2018	CADPLN	1:30:00 PM	2.8495	2.8514			N/A
10/12/2018	CADPLN	3:30:00 PM	2.8572	2.8584			N/A
10/12/2018	CADSEK	9:30:00 AM	6.8782	6.8821			N/A
10/12/2018	CADSEK	11:30:00 AM	6.8739	6.876			N/A
10/12/2018	CADSEK	1:30:00 PM	6.8781	6.8819			N/A
10/12/2018	CADSEK	3:30:00 PM	6.8854	6.8875			N/A
10/12/2018	CADSGD	9:30:00 AM	1.0574	1.0577			N/A
10/12/2018	CADSGD	11:30:00 AM	1.0578	1.0581			N/A
10/12/2018	CADSGD	1:30:00 PM	1.0585	1.0588			N/A
10/12/2018	CADSGD	3:30:00 PM	1.0585	1.0588			N/A
10/12/2018	CADZAR	9:30:00 AM	11.1148	11.1236			N/A

10/12/2018	CADZAR	11:30:00 AM	11.0808	11.0933			N/A
10/12/2018	CADZAR	1:30:00 PM	11.1004	11.1166			N/A
10/12/2018	CADZAR	3:30:00 PM	11.095	11.0929			N/A
10/12/2018	CHFCZK	9:30:00 AM	22.509	22.525			N/A
10/12/2018	CHFCZK	11:30:00 AM	22.472	22.484			N/A
10/12/2018	CHFCZK	1:30:00 PM	22.445	22.459			N/A
10/12/2018	CHFCZK	3:30:00 PM	22.508	22.52			N/A
10/12/2018	CHFDKK	9:30:00 AM	6.502	6.505			N/A
10/12/2018	CHFDKK	11:30:00 AM	6.495	6.499			N/A
10/12/2018	CHFDKK	1:30:00 PM	6.5	6.504			N/A
10/12/2018	CHFDKK	3:30:00 PM	6.51	6.513			N/A
10/12/2018	CHFHKD	9:30:00 AM	7.9204	7.9243			N/A
10/12/2018	CHFHKD	11:30:00 AM	7.9026	7.9042			N/A
10/12/2018	CHFHKD	1:30:00 PM	7.9051	7.9077			N/A
10/12/2018	CHFHKD	3:30:00 PM	7.9028	7.9067			N/A
10/12/2018	CHFHUF	9:30:00 AM	282.74	283.11			N/A
10/12/2018	CHFHUF	11:30:00 AM	282.9	283.23			N/A
10/12/2018	CHFHUF	1:30:00 PM	282.53	282.9			N/A
10/12/2018	CHFHUF	3:30:00 PM	282.9	283.17			N/A
10/12/2018	CHFJPY	9:30:00 AM	113.52	113.575			N/A
10/12/2018	CHFJPY	11:30:00 AM	113.227	113.271			N/A
10/12/2018	CHFJPY	1:30:00 PM	113.236	113.303			N/A
10/12/2018	CHFJPY	3:30:00 PM	113.196	113.229			N/A
10/12/2018	CHFMXN	9:30:00 AM	19.1028	19.1159			N/A
10/12/2018	CHFMXN	11:30:00 AM	19.0224	19.0368			N/A
10/12/2018	CHFMXN	1:30:00 PM	19.0723	19.0858			N/A
10/12/2018	CHFMXN	3:30:00 PM	19.0225	19.0279			N/A
10/12/2018	CHFNOK	9:30:00 AM	8.2691	8.2762			N/A
10/12/2018	CHFNOK	11:30:00 AM	8.2526	8.2586			N/A
10/12/2018	CHFNOK	1:30:00 PM	8.255	8.2612			N/A
10/12/2018	CHFNOK	3:30:00 PM	8.2497	8.2552			N/A
10/12/2018	CHFPLN	9:30:00 AM	3.7484	3.7516			N/A
10/12/2018	CHFPLN	11:30:00 AM	3.7466	3.749			N/A
10/12/2018	CHFPLN	1:30:00 PM	3.7411	3.7437			N/A
10/12/2018	CHFPLN	3:30:00 PM	3.7504	3.7526			N/A
10/12/2018	CHFSEK	9:30:00 AM	9.0492	9.0535			N/A
10/12/2018	CHFSEK	11:30:00 AM	9.0306	9.032			N/A
10/12/2018	CHFSEK	1:30:00 PM	9.0315	9.0357			N/A
10/12/2018	CHFSEK	3:30:00 PM	9.0396	9.0421			N/A
10/12/2018	CHFSGD	9:30:00 AM	1.3904	1.3909			N/A
10/12/2018	CHFSGD	11:30:00 AM	1.3893	1.3896			N/A
10/12/2018	CHFSGD	1:30:00 PM	1.3895	1.3899			N/A
10/12/2018	CHFSGD	3:30:00 PM	1.389	1.3894			N/A
10/12/2018	CHFZAR	9:30:00 AM	14.6229	14.6257			N/A
10/12/2018	CHFZAR	11:30:00 AM	14.5587	14.5664			N/A
10/12/2018	CHFZAR	1:30:00 PM	14.5784	14.5893			N/A
10/12/2018	CHFZAR	3:30:00 PM	14.5693	14.5559			N/A
10/12/2018	CZKJPY	9:30:00 AM	5.045	5.048			N/A
10/12/2018	CZKJPY	11:30:00 AM	5.041	5.043			N/A
10/12/2018	CZKJPY	1:30:00 PM					N/A

10/12/2018	CZKJPY	3:30:00 PM	5.031	5.033			N/A
10/12/2018	DKKJPY	9:30:00 AM					N/A
10/12/2018	DKKJPY	11:30:00 AM					N/A
10/12/2018	DKKJPY	1:30:00 PM					N/A
10/12/2018	DKKJPY	3:30:00 PM	17.4	17.41			N/A
10/12/2018	EURAUD	9:30:00 AM	1.62842	1.62855			N/A
10/12/2018	EURAUD	11:30:00 AM	1.62714	1.62746			N/A
10/12/2018	EURAUD	1:30:00 PM	1.62403	1.6244			N/A
10/12/2018	EURAUD	3:30:00 PM	1.62027	1.62024			N/A
10/12/2018	EURCAD	9:30:00 AM	1.50894	1.5097			N/A
10/12/2018	EURCAD	11:30:00 AM	1.5084	1.50898			N/A
10/12/2018	EURCAD	1:30:00 PM	1.50642	1.5073			N/A
10/12/2018	EURCAD	3:30:00 PM	1.50434	1.50476			N/A
10/12/2018	EURCHF	9:30:00 AM	1.14717	1.14727			N/A
10/12/2018	EURCHF	11:30:00 AM	1.14839	1.14838			N/A
10/12/2018	EURCHF	1:30:00 PM	1.14746	1.14748			N/A
10/12/2018	EURCHF	3:30:00 PM	1.14555	1.14616			N/A
10/12/2018	EURCZK	9:30:00 AM	25.815	25.853			N/A
10/12/2018	EURCZK	11:30:00 AM	25.795	25.829			N/A
10/12/2018	EURCZK	1:30:00 PM	25.747	25.782			N/A
10/12/2018	EURCZK	3:30:00 PM	25.785	25.814			N/A
10/12/2018	EURDKK	9:30:00 AM	7.4599	7.4609			N/A
10/12/2018	EURDKK	11:30:00 AM	7.4593	7.4605			N/A
10/12/2018	EURDKK	1:30:00 PM					N/A
10/12/2018	EURDKK	3:30:00 PM	7.4595	7.4607			N/A
10/12/2018	EURGBP	9:30:00 AM	0.87537	0.87549			N/A
10/12/2018	EURGBP	11:30:00 AM	0.8764	0.8763			N/A
10/12/2018	EURGBP	1:30:00 PM	0.87653	0.87647			N/A
10/12/2018	EURGBP	3:30:00 PM	0.87608	0.87601			N/A
10/12/2018	EURHKD	9:30:00 AM	9.0859	9.0913			N/A
10/12/2018	EURHKD	11:30:00 AM	9.0754	9.0766			N/A
10/12/2018	EURHKD	1:30:00 PM	9.0708	9.0754			N/A
10/12/2018	EURHKD	3:30:00 PM	9.056	9.0596			N/A
10/12/2018	EURHUF	9:30:00 AM	324.25	325			N/A
10/12/2018	EURHUF	11:30:00 AM	324.73	325.42			N/A
10/12/2018	EURHUF	1:30:00 PM	324.09	324.82			N/A
10/12/2018	EURHUF	3:30:00 PM	324.06	324.66			N/A
10/12/2018	EURJPY	9:30:00 AM	130.314	130.299			N/A
10/12/2018	EURJPY	11:30:00 AM	130.114	130.071			N/A
10/12/2018	EURJPY	1:30:00 PM	130.017	130.002			N/A
10/12/2018	EURJPY	3:30:00 PM	129.787	129.746			N/A
10/12/2018	EURMXN	9:30:00 AM	21.9163	21.9339			N/A
10/12/2018	EURMXN	11:30:00 AM	21.8479	21.8619			N/A
10/12/2018	EURMXN	1:30:00 PM	21.8854	21.9035			N/A
10/12/2018	EURMXN	3:30:00 PM	21.7982	21.8044			N/A
10/12/2018	EURNOK	9:30:00 AM	9.4849	9.4963			N/A
10/12/2018	EURNOK	11:30:00 AM	9.4745	9.4847			N/A
10/12/2018	EURNOK	1:30:00 PM	9.4701	9.4812			N/A
10/12/2018	EURNOK	3:30:00 PM	9.4517	9.4609			N/A
10/12/2018	EURNZD	9:30:00 AM	1.77823	1.77888			N/A

10/12/2018	EURNZD	11:30:00 AM	1.77701	1.77752			N/A
10/12/2018	EURNZD	1:30:00 PM	1.77743	1.77818			N/A
10/12/2018	EURNZD	3:30:00 PM	1.77301	1.77357			N/A
10/12/2018	EURPLN	9:30:00 AM	4.3004	4.3036			N/A
10/12/2018	EURPLN	11:30:00 AM	4.3022	4.305			N/A
10/12/2018	EURPLN	1:30:00 PM	4.2926	4.2955			N/A
10/12/2018	EURPLN	3:30:00 PM	4.2984	4.2997			N/A
10/12/2018	EURRUR	9:30:00 AM					N/A
10/12/2018	EURRUR	11:30:00 AM	76.107	76.539			N/A
10/12/2018	EURRUR	1:30:00 PM	76.112	76.551			N/A
10/12/2018	EURRUR	3:30:00 PM	75.998	76.376			N/A
10/12/2018	EURSEK	9:30:00 AM	10.3801	10.3849			N/A
10/12/2018	EURSEK	11:30:00 AM	10.3683	10.3711			N/A
10/12/2018	EURSEK	1:30:00 PM	10.3628	10.3678			N/A
10/12/2018	EURSEK	3:30:00 PM	10.3575	10.3605			N/A
10/12/2018	EURSGD	9:30:00 AM	1.5949	1.5957			N/A
10/12/2018	EURSGD	11:30:00 AM	1.5955	1.5959			N/A
10/12/2018	EURSGD	1:30:00 PM	1.5942	1.595			N/A
10/12/2018	EURSGD	3:30:00 PM	1.5914	1.5922			N/A
10/12/2018	EURUSD	9:30:00 AM	1.15986	1.15999			N/A
10/12/2018	EURUSD	11:30:00 AM	1.15853	1.15813			N/A
10/12/2018	EURUSD	1:30:00 PM	1.15787	1.15789			N/A
10/12/2018	EURUSD	3:30:00 PM	1.15586	1.15573			N/A
10/12/2018	EURZAR	9:30:00 AM	16.7796	16.7859			N/A
10/12/2018	EURZAR	11:30:00 AM	16.7203	16.7295			N/A
10/12/2018	EURZAR	1:30:00 PM	16.7331	16.7451			N/A
10/12/2018	EURZAR	3:30:00 PM	16.6978	16.6791			N/A
10/12/2018	GBPAUD	9:30:00 AM	1.85994	1.86039			N/A
10/12/2018	GBPAUD	11:30:00 AM	1.85648	1.85709			N/A
10/12/2018	GBPAUD	1:30:00 PM	1.85292	1.85314			N/A
10/12/2018	GBPAUD	3:30:00 PM	1.84935	1.84925			N/A
10/12/2018	GBPCAD	9:30:00 AM	1.72329	1.72406			N/A
10/12/2018	GBPCAD	11:30:00 AM	1.7208	1.7214			N/A
10/12/2018	GBPCAD	1:30:00 PM	1.71851	1.71892			N/A
10/12/2018	GBPCAD	3:30:00 PM	1.71675	1.71733			N/A
10/12/2018	GBPCHF	9:30:00 AM	1.31025	1.31072			N/A
10/12/2018	GBPCHF	11:30:00 AM	1.31027	1.31058			N/A
10/12/2018	GBPCHF	1:30:00 PM	1.309	1.30934			N/A
10/12/2018	GBPCHF	3:30:00 PM	1.30777	1.30836			N/A
10/12/2018	GBPCZK	9:30:00 AM	29.49	29.51			N/A
10/12/2018	GBPCZK	11:30:00 AM	29.442	29.454			N/A
10/12/2018	GBPCZK	1:30:00 PM	29.379	29.395			N/A
10/12/2018	GBPCZK	3:30:00 PM	29.434	29.446			N/A
10/12/2018	GBPDKK	9:30:00 AM	8.518	8.53			N/A
10/12/2018	GBPDKK	11:30:00 AM	8.509	8.519			N/A
10/12/2018	GBPDKK	1:30:00 PM	8.508	8.518			N/A
10/12/2018	GBPDKK	3:30:00 PM	8.513	8.523			N/A
10/12/2018	GBPHKD	9:30:00 AM	10.3772	10.383			N/A
10/12/2018	GBPHKD	11:30:00 AM	10.3518	10.3564			N/A
10/12/2018	GBPHKD	1:30:00 PM	10.3475	10.3507			N/A

10/12/2018	GBPHKD	3:30:00 PM	10.335	10.3391			N/A
10/12/2018	GBPHUF	9:30:00 AM	370.45	370.91			N/A
10/12/2018	GBPHUF	11:30:00 AM	370.7	371.02			N/A
10/12/2018	GBPHUF	1:30:00 PM	369.83	370.23			N/A
10/12/2018	GBPHUF	3:30:00 PM	369.96	370.31			N/A
10/12/2018	GBPJPY	9:30:00 AM	148.866	148.88			N/A
10/12/2018	GBPJPY	11:30:00 AM	148.45	148.476			N/A
10/12/2018	GBPJPY	1:30:00 PM	148.348	148.369			N/A
10/12/2018	GBPJPY	3:30:00 PM	148.178	148.14			N/A
10/12/2018	GBPMXN	9:30:00 AM	25.0316	25.0439			N/A
10/12/2018	GBPMXN	11:30:00 AM	24.9226	24.9377			N/A
10/12/2018	GBPMXN	1:30:00 PM	24.9686	24.9773			N/A
10/12/2018	GBPMXN	3:30:00 PM	24.8769	24.8824			N/A
10/12/2018	GBPNOK	9:30:00 AM	10.8362	10.846			N/A
10/12/2018	GBPNOK	11:30:00 AM	10.8148	10.822			N/A
10/12/2018	GBPNOK	1:30:00 PM	10.8073	10.815			N/A
10/12/2018	GBPNOK	3:30:00 PM	10.7898	10.7974			N/A
10/12/2018	GBPNZD	9:30:00 AM	2.03142	2.03197			N/A
10/12/2018	GBPNZD	11:30:00 AM	2.02765	2.02829			N/A
10/12/2018	GBPNZD	1:30:00 PM	2.02809	2.02843			N/A
10/12/2018	GBPNZD	3:30:00 PM	2.02409	2.0244			N/A
10/12/2018	GBPPLN	9:30:00 AM	4.9133	4.9153			N/A
10/12/2018	GBPPLN	11:30:00 AM	4.9112	4.9111			N/A
10/12/2018	GBPPLN	1:30:00 PM	4.8991	4.8997			N/A
10/12/2018	GBPPLN	3:30:00 PM	4.9074	4.9074			N/A
10/12/2018	GBPSEK	9:30:00 AM	11.8557	11.8648			N/A
10/12/2018	GBPSEK	11:30:00 AM	11.8316	11.8355			N/A
10/12/2018	GBPSEK	1:30:00 PM	11.8219	11.8296			N/A
10/12/2018	GBPSEK	3:30:00 PM	11.8204	11.828			N/A
10/12/2018	GBPSGD	9:30:00 AM	1.822	1.8227			N/A
10/12/2018	GBPSGD	11:30:00 AM	1.8204	1.8211			N/A
10/12/2018	GBPSGD	1:30:00 PM	1.8191	1.8196			N/A
10/12/2018	GBPSGD	3:30:00 PM	1.8169	1.8174			N/A
10/12/2018	GBPUSD	9:30:00 AM	1.325	1.32507			N/A
10/12/2018	GBPUSD	11:30:00 AM	1.32183	1.32173			N/A
10/12/2018	GBPUSD	1:30:00 PM	1.32116	1.32097			N/A
10/12/2018	GBPUSD	3:30:00 PM	1.3195	1.31932			N/A
10/12/2018	GBPZAR	9:30:00 AM	19.1653	19.1786			N/A
10/12/2018	GBPZAR	11:30:00 AM	19.0755	19.0933			N/A
10/12/2018	GBPZAR	1:30:00 PM	19.0895	19.1059			N/A
10/12/2018	GBPZAR	3:30:00 PM	19.0555	19.0455			N/A
10/12/2018	GOLD	9:30:00 AM	1218.88	1218.97			N/A
10/12/2018	GOLD	11:30:00 AM	1218.65	1218.63			N/A
10/12/2018	GOLD	1:30:00 PM	1221.39	1221.65			N/A
10/12/2018	GOLD	3:30:00 PM	1221.49	1221.48			N/A
10/12/2018	HKDJPY	9:30:00 AM					N/A
10/12/2018	HKDJPY	11:30:00 AM					N/A
10/12/2018	HKDJPY	1:30:00 PM					N/A
10/12/2018	HKDJPY	3:30:00 PM					N/A
10/12/2018	HUFJPY	9:30:00 AM	0.4017	0.402			N/A

10/12/2018	HUFJPY	11:30:00 AM	0.4003	0.4007			N/A
10/12/2018	HUFJPY	1:30:00 PM	0.4009	0.4012			N/A
10/12/2018	HUFJPY	3:30:00 PM	0.4005	0.4008			N/A
10/12/2018	MXNJPY	9:30:00 AM	5.94	5.96			N/A
10/12/2018	MXNJPY	11:30:00 AM					N/A
10/12/2018	MXNJPY	1:30:00 PM					N/A
10/12/2018	MXNJPY	3:30:00 PM	5.96	5.97			N/A
10/12/2018	NOKJPY	9:30:00 AM					N/A
10/12/2018	NOKJPY	11:30:00 AM					N/A
10/12/2018	NOKJPY	1:30:00 PM					N/A
10/12/2018	NOKJPY	3:30:00 PM	13.71	13.75			N/A
10/12/2018	NZDCAD	9:30:00 AM	0.84805	0.84874			N/A
10/12/2018	NZDCAD	11:30:00 AM	0.84833	0.84899			N/A
10/12/2018	NZDCAD	1:30:00 PM	0.84702	0.84774			N/A
10/12/2018	NZDCAD	3:30:00 PM	0.84791	0.84851			N/A
10/12/2018	NZDCHF	9:30:00 AM	0.6447	0.64538			N/A
10/12/2018	NZDCHF	11:30:00 AM	0.6458	0.6465			N/A
10/12/2018	NZDCHF	1:30:00 PM	0.64512	0.6458			N/A
10/12/2018	NZDCHF	3:30:00 PM	0.64587	0.6465			N/A
10/12/2018	NZDCZK	9:30:00 AM	14.513	14.526			N/A
10/12/2018	NZDCZK	11:30:00 AM	14.516	14.524			N/A
10/12/2018	NZDCZK	1:30:00 PM	14.481	14.493			N/A
10/12/2018	NZDCZK	3:30:00 PM	14.539	14.547			N/A
10/12/2018	NZDDKK	9:30:00 AM					N/A
10/12/2018	NZDDKK	11:30:00 AM					N/A
10/12/2018	NZDDKK	1:30:00 PM	4.194	4.198			N/A
10/12/2018	NZDDKK	3:30:00 PM	4.205	4.209			N/A
10/12/2018	NZDHKD	9:30:00 AM	5.107	5.1099			N/A
10/12/2018	NZDHKD	11:30:00 AM	5.1032	5.1061			N/A
10/12/2018	NZDHKD	1:30:00 PM	5.0999	5.1028			N/A
10/12/2018	NZDHKD	3:30:00 PM	5.1045	5.1074			N/A
10/12/2018	NZDHUF	9:30:00 AM	182.29	182.59			N/A
10/12/2018	NZDHUF	11:30:00 AM	182.72	182.95			N/A
10/12/2018	NZDHUF	1:30:00 PM	182.28	182.57			N/A
10/12/2018	NZDHUF	3:30:00 PM	182.71	182.95			N/A
10/12/2018	NZDJPY	9:30:00 AM	73.252	73.3			N/A
10/12/2018	NZDJPY	11:30:00 AM	73.179	73.238			N/A
10/12/2018	NZDJPY	1:30:00 PM	73.109	73.174			N/A
10/12/2018	NZDJPY	3:30:00 PM	73.172	73.209			N/A
10/12/2018	NZDMXN	9:30:00 AM	12.3189	12.325			N/A
10/12/2018	NZDMXN	11:30:00 AM	12.289	12.2946			N/A
10/12/2018	NZDMXN	1:30:00 PM	12.307	12.3128			N/A
10/12/2018	NZDMXN	3:30:00 PM	12.2887	12.2894			N/A
10/12/2018	NZDNOK	9:30:00 AM	5.3316	5.3354			N/A
10/12/2018	NZDNOK	11:30:00 AM	5.3316	5.333			N/A
10/12/2018	NZDNOK	1:30:00 PM	5.3263	5.3295			N/A
10/12/2018	NZDNOK	3:30:00 PM	5.3285	5.331			N/A
10/12/2018	NZDPLN	9:30:00 AM	2.4167	2.418			N/A
10/12/2018	NZDPLN	11:30:00 AM	2.4205	2.4215			N/A
10/12/2018	NZDPLN	1:30:00 PM	2.4136	2.4149			N/A

10/12/2018	NZDPLN	3:30:00 PM	2.4225	2.4239			N/A
10/12/2018	NZDSEK	9:30:00 AM	5.8318	5.8387			N/A
10/12/2018	NZDSEK	11:30:00 AM	5.8298	5.8352			N/A
10/12/2018	NZDSEK	1:30:00 PM	5.8243	5.8311			N/A
10/12/2018	NZDSEK	3:30:00 PM	5.8361	5.8423			N/A
10/12/2018	NZDSGD	9:30:00 AM	0.8968	0.8975			N/A
10/12/2018	NZDSGD	11:30:00 AM	0.8977	0.8984			N/A
10/12/2018	NZDSGD	1:30:00 PM	0.8968	0.8975			N/A
10/12/2018	NZDSGD	3:30:00 PM	0.8975	0.8982			N/A
10/12/2018	NZDUSD	9:30:00 AM	0.65186	0.652			N/A
10/12/2018	NZDUSD	11:30:00 AM	0.65151	0.65154			N/A
10/12/2018	NZDUSD	1:30:00 PM	0.651	0.65115			N/A
10/12/2018	NZDUSD	3:30:00 PM	0.65154	0.65158			N/A
10/12/2018	NZDZAR	9:30:00 AM	9.4245	9.4346			N/A
10/12/2018	NZDZAR	11:30:00 AM	9.3995	9.4125			N/A
10/12/2018	NZDZAR	1:30:00 PM	9.4022	9.4171			N/A
10/12/2018	NZDZAR	3:30:00 PM	9.4068	9.4065			N/A
10/12/2018	SEKJPY	9:30:00 AM	12.55	12.57			N/A
10/12/2018	SEKJPY	11:30:00 AM	12.55	12.57			N/A
10/12/2018	SEKJPY	1:30:00 PM	12.55	12.56			N/A
10/12/2018	SEKJPY	3:30:00 PM					N/A
10/12/2018	SGDJPY	9:30:00 AM	81.66	81.68			N/A
10/12/2018	SGDJPY	11:30:00 AM	81.51	81.53			N/A
10/12/2018	SGDJPY	1:30:00 PM	81.52	81.54			N/A
10/12/2018	SGDJPY	3:30:00 PM	81.52	81.52			N/A
10/12/2018	SILVER	9:30:00 AM	14.36	14.75			N/A
10/12/2018	SILVER	11:30:00 AM	14.36	14.75			N/A
10/12/2018	SILVER	1:30:00 PM	14.44	14.82			N/A
10/12/2018	SILVER	3:30:00 PM	14.46	14.84			N/A
10/12/2018	USDCAD	9:30:00 AM	1.30084	1.3009			N/A
10/12/2018	USDCAD	11:30:00 AM	1.3022	1.30206			N/A
10/12/2018	USDCAD	1:30:00 PM	1.30101	1.30103			N/A
10/12/2018	USDCAD	3:30:00 PM	1.30156	1.30126			N/A
10/12/2018	USDCHF	9:30:00 AM	0.98895	0.9891			N/A
10/12/2018	USDCHF	11:30:00 AM	0.99146	0.99129			N/A
10/12/2018	USDCHF	1:30:00 PM	0.9909	0.99104			N/A
10/12/2018	USDCHF	3:30:00 PM	0.99107	0.99169			N/A
10/12/2018	USDCZK	9:30:00 AM	22.256	22.28			N/A
10/12/2018	USDCZK	11:30:00 AM	22.275	22.289			N/A
10/12/2018	USDCZK	1:30:00 PM	22.237	22.259			N/A
10/12/2018	USDCZK	3:30:00 PM	22.31	22.327			N/A
10/12/2018	USDDKK	9:30:00 AM	6.4321	6.4377			N/A
10/12/2018	USDDKK	11:30:00 AM	6.4419	6.4446			N/A
10/12/2018	USDDKK	1:30:00 PM	6.4432	6.4481			N/A
10/12/2018	USDDKK	3:30:00 PM	6.4555	6.4597			N/A
10/12/2018	USDHKD	9:30:00 AM	7.8351	7.8354			N/A
10/12/2018	USDHKD	11:30:00 AM	7.835	7.8354			N/A
10/12/2018	USDHKD	1:30:00 PM	7.8356	7.8358			N/A
10/12/2018	USDHKD	3:30:00 PM					N/A
10/12/2018	USDHUF	9:30:00 AM	279.63	280.11			N/A

10/12/2018	USDHUF	11:30:00 AM	280.48	280.79			N/A
10/12/2018	USDHUF	1:30:00 PM	279.96	280.43			N/A
10/12/2018	USDHUF	3:30:00 PM	280.46	280.84			N/A
10/12/2018	USDJPY	9:30:00 AM	112.378	112.366			N/A
10/12/2018	USDJPY	11:30:00 AM	112.336	112.343			N/A
10/12/2018	USDJPY	1:30:00 PM	112.313	112.317			N/A
10/12/2018	USDJPY	3:30:00 PM	112.325	112.292			N/A
10/12/2018	USDMXN	9:30:00 AM	18.899	18.905			N/A
10/12/2018	USDMXN	11:30:00 AM	18.863	18.87			N/A
10/12/2018	USDMXN	1:30:00 PM	18.905	18.911			N/A
10/12/2018	USDMXN	3:30:00 PM	18.863	18.86			N/A
10/12/2018	USDNOK	9:30:00 AM	8.1787	8.187			N/A
10/12/2018	USDNOK	11:30:00 AM	8.1833	8.1882			N/A
10/12/2018	USDNOK	1:30:00 PM	8.1807	8.188			N/A
10/12/2018	USDNOK	3:30:00 PM	8.179	8.1852			N/A
10/12/2018	USDPLN	9:30:00 AM	3.7079	3.7096			N/A
10/12/2018	USDPLN	11:30:00 AM	3.7155	3.7151			N/A
10/12/2018	USDPLN	1:30:00 PM	3.7079	3.7091			N/A
10/12/2018	USDPLN	3:30:00 PM	3.7194	3.7192			N/A
10/12/2018	USDRUR	9:30:00 AM					N/A
10/12/2018	USDRUR	11:30:00 AM	65.78	66.139			N/A
10/12/2018	USDRUR	1:30:00 PM	65.811	66.193			N/A
10/12/2018	USDRUR	3:30:00 PM	65.826	66.17			N/A
10/12/2018	USDSEK	9:30:00 AM	8.9471	8.9518			N/A
10/12/2018	USDSEK	11:30:00 AM	8.9515	8.9509			N/A
10/12/2018	USDSEK	1:30:00 PM	8.9477	8.9524			N/A
10/12/2018	USDSEK	3:30:00 PM	8.9592	8.9622			N/A
10/12/2018	USDSGD	9:30:00 AM	1.3751	1.3755			N/A
10/12/2018	USDSGD	11:30:00 AM	1.3772	1.3776			N/A
10/12/2018	USDSGD	1:30:00 PM	1.3769	1.3773			N/A
10/12/2018	USDSGD	3:30:00 PM	1.377	1.3774			N/A
10/12/2018	USDZAR	9:30:00 AM	14.4661	14.4688			N/A
10/12/2018	USDZAR	11:30:00 AM	14.4324	14.4412			N/A
10/12/2018	USDZAR	1:30:00 PM	14.4505	14.4615			N/A
10/12/2018	USDZAR	3:30:00 PM	14.4472	14.4336			N/A
10/12/2018	XAUUSD	9:30:00 AM	1218.89	1218.97			N/A
10/12/2018	XAUUSD	11:30:00 AM	1218.65	1218.62			N/A
10/12/2018	XAUUSD	1:30:00 PM	1221.39	1221.65			N/A
10/12/2018	XAUUSD	3:30:00 PM	1221.5	1221.48			N/A
10/12/2018	ZARJPY	9:30:00 AM	7.72	7.75			N/A
10/12/2018	ZARJPY	11:30:00 AM					N/A
10/12/2018	ZARJPY	1:30:00 PM					N/A
10/12/2018	ZARJPY	3:30:00 PM	7.72	7.76			N/A
10/15/2018	#AA	9:30:00 AM					N/A
10/15/2018	#AA	11:30:00 AM					N/A
10/15/2018	#AA	1:30:00 PM					N/A
10/15/2018	#AA	3:30:00 PM					N/A
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10/15/2018	#AABA	11:30:00 AM					N/A
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10/15/2018	#AAPL	3:30:00 PM					N/A
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10/15/2018	#AMD	11:30:00 AM					N/A
10/15/2018	#AMD	1:30:00 PM					N/A
10/15/2018	#AMD	3:30:00 PM					N/A
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10/15/2018	#BA	1:30:00 PM					N/A
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10/15/2018	#BHP	3:30:00 PM					N/A
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10/15/2018	#BIDU	11:30:00 AM					N/A
10/15/2018	#BIDU	1:30:00 PM					N/A
10/15/2018	#BIDU	3:30:00 PM					N/A
10/15/2018	#BK	9:30:00 AM					N/A
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10/15/2018	#BK	3:30:00 PM					N/A
10/15/2018	#BLT	9:30:00 AM					N/A
10/15/2018	#BLT	11:30:00 AM					N/A
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10/15/2018	#BP	3:30:00 PM					N/A
10/15/2018	#BTA	9:30:00 AM					N/A
10/15/2018	#BTA	11:30:00 AM					N/A
10/15/2018	#BTA	1:30:00 PM					N/A
10/15/2018	#BTA	3:30:00 PM					N/A
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10/15/2018	#C	11:30:00 AM					N/A
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10/15/2018	#C	3:30:00 PM					N/A
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10/15/2018	#CAT	3:30:00 PM					N/A
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10/15/2018	#CHL	1:30:00 PM					N/A
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10/15/2018	#CMCSA	11:30:00 AM					N/A
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10/15/2018	#CSCO	11:30:00 AM					N/A
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10/15/2018	#DIS	1:30:00 PM					N/A

10/15/2018	#DIS	3:30:00 PM					N/A
10/15/2018	#DWDP	9:30:00 AM					N/A
10/15/2018	#DWDP	11:30:00 AM					N/A
10/15/2018	#DWDP	1:30:00 PM					N/A
10/15/2018	#DWDP	3:30:00 PM					N/A
10/15/2018	#EBAY	9:30:00 AM					N/A
10/15/2018	#EBAY	11:30:00 AM					N/A
10/15/2018	#EBAY	1:30:00 PM					N/A
10/15/2018	#EBAY	3:30:00 PM					N/A
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10/15/2018	#F	11:30:00 AM					N/A
10/15/2018	#F	1:30:00 PM					N/A
10/15/2018	#F	3:30:00 PM					N/A
10/15/2018	#FB	9:30:00 AM					N/A
10/15/2018	#FB	11:30:00 AM					N/A
10/15/2018	#FB	1:30:00 PM					N/A
10/15/2018	#FB	3:30:00 PM					N/A
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10/15/2018	AUDCZK	3:30:00 PM	15.875	15.885			N/A
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10/15/2018	AUDHKD	9:30:00 AM	5.5698	5.5734			N/A
10/15/2018	AUDHKD	11:30:00 AM	5.5834	5.5866			N/A
10/15/2018	AUDHKD	1:30:00 PM	5.5919	5.5958			N/A
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10/15/2018	AUDPLN	3:30:00 PM	2.6441	2.6468			N/A
10/15/2018	AUDSEK	9:30:00 AM	6.3813	6.3836			N/A
10/15/2018	AUDSEK	11:30:00 AM	6.4073	6.4101			N/A
10/15/2018	AUDSEK	1:30:00 PM	6.3929	6.3961			N/A
10/15/2018	AUDSEK	3:30:00 PM	6.3963	6.3993			N/A
10/15/2018	AUDSGD	9:30:00 AM	0.9801	0.9804			N/A
10/15/2018	AUDSGD	11:30:00 AM	0.9817	0.9819			N/A
10/15/2018	AUDSGD	1:30:00 PM	0.9826	0.9829			N/A
10/15/2018	AUDSGD	3:30:00 PM	0.9828	0.9828			N/A
10/15/2018	AUDUSD	9:30:00 AM	0.71117	0.71128			N/A
10/15/2018	AUDUSD	11:30:00 AM	0.71286	0.71291			N/A
10/15/2018	AUDUSD	1:30:00 PM	0.71401	0.71408			N/A
10/15/2018	AUDUSD	3:30:00 PM	0.71416	0.71416			N/A
10/15/2018	AUDZAR	9:30:00 AM	10.2796	10.2915			N/A
10/15/2018	AUDZAR	11:30:00 AM	10.3117	10.3239			N/A
10/15/2018	AUDZAR	1:30:00 PM	10.3126	10.32			N/A
10/15/2018	AUDZAR	3:30:00 PM	10.2868	10.2834			N/A
10/15/2018	CADCHF	9:30:00 AM	0.75994	0.76059			N/A
10/15/2018	CADCHF	11:30:00 AM	0.76002	0.76061			N/A
10/15/2018	CADCHF	1:30:00 PM	0.75691	0.75753			N/A
10/15/2018	CADCHF	3:30:00 PM	0.75722	0.75768			N/A
10/15/2018	CADCZK	9:30:00 AM	17.135	17.151			N/A
10/15/2018	CADCZK	11:30:00 AM	17.113	17.129			N/A
10/15/2018	CADCZK	1:30:00 PM	17.08	17.096			N/A
10/15/2018	CADCZK	3:30:00 PM	17.084	17.096			N/A
10/15/2018	CADDKK	9:30:00 AM					N/A
10/15/2018	CADDKK	11:30:00 AM					N/A
10/15/2018	CADDKK	1:30:00 PM					N/A
10/15/2018	CADDKK	3:30:00 PM	4.946	4.947			N/A
10/15/2018	CADHKD	9:30:00 AM	6.0161	6.0195			N/A
10/15/2018	CADHKD	11:30:00 AM	6.0154	6.0193			N/A
10/15/2018	CADHKD	1:30:00 PM	6.0197	6.0235			N/A
10/15/2018	CADHKD	3:30:00 PM	6.019	6.0218			N/A
10/15/2018	CADHUF	9:30:00 AM	215.2	215.34			N/A
10/15/2018	CADHUF	11:30:00 AM	215.18	215.32			N/A
10/15/2018	CADHUF	1:30:00 PM	214.46	214.62			N/A
10/15/2018	CADHUF	3:30:00 PM	214.26	214.35			N/A
10/15/2018	CADJPY	9:30:00 AM	85.881	85.946			N/A
10/15/2018	CADJPY	11:30:00 AM	85.755	85.801			N/A
10/15/2018	CADJPY	1:30:00 PM	85.78	85.848			N/A
10/15/2018	CADJPY	3:30:00 PM	85.901	85.924			N/A
10/15/2018	CADMXN	9:30:00 AM	14.4841	14.4946			N/A
10/15/2018	CADMXN	11:30:00 AM	14.4696	14.4794			N/A
10/15/2018	CADMXN	1:30:00 PM	14.4481	14.4603			N/A
10/15/2018	CADMXN	3:30:00 PM	14.4597	14.4639			N/A
10/15/2018	CADNOK	9:30:00 AM	6.2739	6.275			N/A
10/15/2018	CADNOK	11:30:00 AM	6.2773	6.2806			N/A
10/15/2018	CADNOK	1:30:00 PM	6.2584	6.2633			N/A

10/15/2018	CADNOK	3:30:00 PM	6.2622	6.2625			N/A
10/15/2018	CADPLN	9:30:00 AM	2.8498	2.8509			N/A
10/15/2018	CADPLN	11:30:00 AM	2.8494	2.8511			N/A
10/15/2018	CADPLN	1:30:00 PM	2.8462	2.8481			N/A
10/15/2018	CADPLN	3:30:00 PM	2.8456	2.8468			N/A
10/15/2018	CADSEK	9:30:00 AM	6.8913	6.8941			N/A
10/15/2018	CADSEK	11:30:00 AM	6.9024	6.905			N/A
10/15/2018	CADSEK	1:30:00 PM	6.8803	6.8835			N/A
10/15/2018	CADSEK	3:30:00 PM	6.8823	6.8838			N/A
10/15/2018	CADSGD	9:30:00 AM	1.0583	1.0587			N/A
10/15/2018	CADSGD	11:30:00 AM	1.0574	1.0577			N/A
10/15/2018	CADSGD	1:30:00 PM	1.0578	1.0581			N/A
10/15/2018	CADSGD	3:30:00 PM	1.0573	1.0576			N/A
10/15/2018	CADZAR	9:30:00 AM	11.0949	11.1109			N/A
10/15/2018	CADZAR	11:30:00 AM	11.1039	11.1186			N/A
10/15/2018	CADZAR	1:30:00 PM	11.0931	11.1099			N/A
10/15/2018	CADZAR	3:30:00 PM	11.0655	11.0656			N/A
10/15/2018	CHFCZK	9:30:00 AM	22.541	22.558			N/A
10/15/2018	CHFCZK	11:30:00 AM	22.514	22.525			N/A
10/15/2018	CHFCZK	1:30:00 PM	22.56	22.574			N/A
10/15/2018	CHFCZK	3:30:00 PM	22.558	22.563			N/A
10/15/2018	CHFDKK	9:30:00 AM	6.518	6.522			N/A
10/15/2018	CHFDKK	11:30:00 AM	6.514	6.517			N/A
10/15/2018	CHFDKK	1:30:00 PM					N/A
10/15/2018	CHFDKK	3:30:00 PM	6.527	6.53			N/A
10/15/2018	CHFHKD	9:30:00 AM	7.9142	7.918			N/A
10/15/2018	CHFHKD	11:30:00 AM	7.9124	7.9163			N/A
10/15/2018	CHFHKD	1:30:00 PM	7.9508	7.9532			N/A
10/15/2018	CHFHKD	3:30:00 PM	7.9468	7.947			N/A
10/15/2018	CHFHUF	9:30:00 AM	282.98	283.36			N/A
10/15/2018	CHFHUF	11:30:00 AM	282.94	283.32			N/A
10/15/2018	CHFHUF	1:30:00 PM	283.18	283.51			N/A
10/15/2018	CHFHUF	3:30:00 PM	282.77	283.04			N/A
10/15/2018	CHFJPY	9:30:00 AM	112.918	112.986			N/A
10/15/2018	CHFJPY	11:30:00 AM	112.737	112.796			N/A
10/15/2018	CHFJPY	1:30:00 PM	113.25	113.306			N/A
10/15/2018	CHFJPY	3:30:00 PM	113.341	113.371			N/A
10/15/2018	CHFMXN	9:30:00 AM	19.0499	19.0643			N/A
10/15/2018	CHFMXN	11:30:00 AM	19.0296	19.0441			N/A
10/15/2018	CHFMXN	1:30:00 PM	19.082	19.0949			N/A
10/15/2018	CHFMXN	3:30:00 PM	19.0851	19.0966			N/A
10/15/2018	CHFNOK	9:30:00 AM	8.2515	8.2566			N/A
10/15/2018	CHFNOK	11:30:00 AM	8.2556	8.2622			N/A
10/15/2018	CHFNOK	1:30:00 PM	8.265	8.272			N/A
10/15/2018	CHFNOK	3:30:00 PM	8.2652	8.2703			N/A
10/15/2018	CHFPLN	9:30:00 AM	3.7479	3.751			N/A
10/15/2018	CHFPLN	11:30:00 AM	3.7484	3.7502			N/A
10/15/2018	CHFPLN	1:30:00 PM	3.7592	3.7611			N/A
10/15/2018	CHFPLN	3:30:00 PM	3.756	3.7582			N/A
10/15/2018	CHFSEK	9:30:00 AM	9.0655	9.0685			N/A

10/15/2018	CHFSEK	11:30:00 AM	9.0803	9.0831			N/A
10/15/2018	CHFSEK	1:30:00 PM	9.0883	9.0909			N/A
10/15/2018	CHFSEK	3:30:00 PM	9.0873	9.0889			N/A
10/15/2018	CHFSGD	9:30:00 AM	1.3921	1.3925			N/A
10/15/2018	CHFSGD	11:30:00 AM	1.3909	1.3913			N/A
10/15/2018	CHFSGD	1:30:00 PM	1.3966	1.3969			N/A
10/15/2018	CHFSGD	3:30:00 PM	1.396	1.396			N/A
10/15/2018	CHFZAR	9:30:00 AM	14.598	14.6123			N/A
10/15/2018	CHFZAR	11:30:00 AM	14.6088	14.6191			N/A
10/15/2018	CHFZAR	1:30:00 PM	14.6567	14.6668			N/A
10/15/2018	CHFZAR	3:30:00 PM	14.6145	14.6033			N/A
10/15/2018	CZKJPY	9:30:00 AM	5.011	5.015			N/A
10/15/2018	CZKJPY	11:30:00 AM	5.009	5.013			N/A
10/15/2018	CZKJPY	1:30:00 PM	5.021	5.025			N/A
10/15/2018	CZKJPY	3:30:00 PM	5.029	5.029			N/A
10/15/2018	DKKJPY	9:30:00 AM					N/A
10/15/2018	DKKJPY	11:30:00 AM	17.31	17.33			N/A
10/15/2018	DKKJPY	1:30:00 PM					N/A
10/15/2018	DKKJPY	3:30:00 PM	17.38	17.39			N/A
10/15/2018	EURAUD	9:30:00 AM	1.62513	1.62541			N/A
10/15/2018	EURAUD	11:30:00 AM	1.62208	1.62252			N/A
10/15/2018	EURAUD	1:30:00 PM	1.62373	1.62418			N/A
10/15/2018	EURAUD	3:30:00 PM	1.62344	1.62333			N/A
10/15/2018	EURCAD	9:30:00 AM	1.50515	1.50576			N/A
10/15/2018	EURCAD	11:30:00 AM	1.5061	1.50681			N/A
10/15/2018	EURCAD	1:30:00 PM	1.509	1.50974			N/A
10/15/2018	EURCAD	3:30:00 PM	1.5092	1.50967			N/A
10/15/2018	EURCHF	9:30:00 AM	1.14417	1.14428			N/A
10/15/2018	EURCHF	11:30:00 AM	1.14508	1.14499			N/A
10/15/2018	EURCHF	1:30:00 PM	1.1426	1.14261			N/A
10/15/2018	EURCHF	3:30:00 PM	1.14282	1.1432			N/A
10/15/2018	EURCZK	9:30:00 AM	25.785	25.821			N/A
10/15/2018	EURCZK	11:30:00 AM	25.769	25.805			N/A
10/15/2018	EURCZK	1:30:00 PM	25.765	25.803			N/A
10/15/2018	EURCZK	3:30:00 PM	25.777	25.811			N/A
10/15/2018	EURDKK	9:30:00 AM	7.4589	7.4601			N/A
10/15/2018	EURDKK	11:30:00 AM	7.4594	7.4602			N/A
10/15/2018	EURDKK	1:30:00 PM	7.4599	7.4608			N/A
10/15/2018	EURDKK	3:30:00 PM	7.4598	7.461			N/A
10/15/2018	EURGBP	9:30:00 AM	0.88093	0.88076			N/A
10/15/2018	EURGBP	11:30:00 AM	0.88113	0.88119			N/A
10/15/2018	EURGBP	1:30:00 PM	0.88136	0.88153			N/A
10/15/2018	EURGBP	3:30:00 PM	0.88056	0.88033			N/A
10/15/2018	EURHKD	9:30:00 AM	9.0554	9.06			N/A
10/15/2018	EURHKD	11:30:00 AM	9.0596	9.0641			N/A
10/15/2018	EURHKD	1:30:00 PM	9.0835	9.0878			N/A
10/15/2018	EURHKD	3:30:00 PM	9.0831	9.085			N/A
10/15/2018	EURHUF	9:30:00 AM	323.68	324.42			N/A
10/15/2018	EURHUF	11:30:00 AM	323.86	324.55			N/A
10/15/2018	EURHUF	1:30:00 PM	323.43	324.15			N/A

10/15/2018	EURHUF	3:30:00 PM	323.06	323.77			N/A
10/15/2018	EURJPY	9:30:00 AM	129.281	129.28			N/A
10/15/2018	EURJPY	11:30:00 AM	129.173	129.146			N/A
10/15/2018	EURJPY	1:30:00 PM	129.465	129.471			N/A
10/15/2018	EURJPY	3:30:00 PM	129.637	129.592			N/A
10/15/2018	EURMXN	9:30:00 AM	21.7982	21.815			N/A
10/15/2018	EURMXN	11:30:00 AM	21.7897	21.8073			N/A
10/15/2018	EURMXN	1:30:00 PM	21.8023	21.8201			N/A
10/15/2018	EURMXN	3:30:00 PM	21.8191	21.826			N/A
10/15/2018	EURNOK	9:30:00 AM	9.4405	9.4485			N/A
10/15/2018	EURNOK	11:30:00 AM	9.4524	9.4618			N/A
10/15/2018	EURNOK	1:30:00 PM	9.4424	9.4535			N/A
10/15/2018	EURNOK	3:30:00 PM	9.4474	9.4545			N/A
10/15/2018	EURNZD	9:30:00 AM	1.77554	1.77607			N/A
10/15/2018	EURNZD	11:30:00 AM	1.77157	1.77199			N/A
10/15/2018	EURNZD	1:30:00 PM	1.77296	1.77386			N/A
10/15/2018	EURNZD	3:30:00 PM	1.77231	1.77282			N/A
10/15/2018	EURPLN	9:30:00 AM	4.2889	4.2912			N/A
10/15/2018	EURPLN	11:30:00 AM	4.2917	4.2943			N/A
10/15/2018	EURPLN	1:30:00 PM	4.2956	4.2974			N/A
10/15/2018	EURPLN	3:30:00 PM	4.2927	4.296			N/A
10/15/2018	EURRUR	9:30:00 AM					N/A
10/15/2018	EURRUR	11:30:00 AM	75.692	76.137			N/A
10/15/2018	EURRUR	1:30:00 PM	75.766	76.174			N/A
10/15/2018	EURRUR	3:30:00 PM	75.606	76.025			N/A
10/15/2018	EURSEK	9:30:00 AM	10.3719	10.3751			N/A
10/15/2018	EURSEK	11:30:00 AM	10.3955	10.4			N/A
10/15/2018	EURSEK	1:30:00 PM	10.383	10.3863			N/A
10/15/2018	EURSEK	3:30:00 PM	10.3852	10.3886			N/A
10/15/2018	EURSGD	9:30:00 AM	1.5927	1.5935			N/A
10/15/2018	EURSGD	11:30:00 AM	1.5924	1.5932			N/A
10/15/2018	EURSGD	1:30:00 PM	1.5956	1.5964			N/A
10/15/2018	EURSGD	3:30:00 PM	1.5955	1.5959			N/A
10/15/2018	EURUSD	9:30:00 AM	1.15552	1.15555			N/A
10/15/2018	EURUSD	11:30:00 AM	1.15604	1.15608			N/A
10/15/2018	EURUSD	1:30:00 PM	1.15913	1.15911			N/A
10/15/2018	EURUSD	3:30:00 PM	1.15905	1.15873			N/A
10/15/2018	EURZAR	9:30:00 AM	16.7085	16.724			N/A
10/15/2018	EURZAR	11:30:00 AM	16.73	16.7442			N/A
10/15/2018	EURZAR	1:30:00 PM	16.7501	16.7644			N/A
10/15/2018	EURZAR	3:30:00 PM	16.7039	16.6957			N/A
10/15/2018	GBPAUD	9:30:00 AM	1.84509	1.84502			N/A
10/15/2018	GBPAUD	11:30:00 AM	1.84071	1.84128			N/A
10/15/2018	GBPAUD	1:30:00 PM	1.84191	1.84275			N/A
10/15/2018	GBPAUD	3:30:00 PM	1.8437	1.8436			N/A
10/15/2018	GBPCAD	9:30:00 AM	1.70869	1.70867			N/A
10/15/2018	GBPCAD	11:30:00 AM	1.70889	1.70945			N/A
10/15/2018	GBPCAD	1:30:00 PM	1.71159	1.7123			N/A
10/15/2018	GBPCAD	3:30:00 PM	1.71366	1.7138			N/A
10/15/2018	GBPCHF	9:30:00 AM	1.29901	1.29909			N/A

10/15/2018	GBPCHF	11:30:00 AM	1.29938	1.29971			N/A
10/15/2018	GBPCHF	1:30:00 PM	1.29613	1.2965			N/A
10/15/2018	GBPCHF	3:30:00 PM	1.29812	1.29823			N/A
10/15/2018	GBPCZK	9:30:00 AM	29.279	29.292			N/A
10/15/2018	GBPCZK	11:30:00 AM	29.247	29.265			N/A
10/15/2018	GBPCZK	1:30:00 PM	29.236	29.259			N/A
10/15/2018	GBPCZK	3:30:00 PM	29.275	29.286			N/A
10/15/2018	GBPDKK	9:30:00 AM	8.466	8.475			N/A
10/15/2018	GBPDKK	11:30:00 AM	8.462	8.474			N/A
10/15/2018	GBPDKK	1:30:00 PM	8.459	8.471			N/A
10/15/2018	GBPDKK	3:30:00 PM	8.47	8.48			N/A
10/15/2018	GBPHKD	9:30:00 AM	10.2793	10.2817			N/A
10/15/2018	GBPHKD	11:30:00 AM	10.2797	10.2856			N/A
10/15/2018	GBPHKD	1:30:00 PM	10.3035	10.3079			N/A
10/15/2018	GBPHKD	3:30:00 PM	10.3129	10.3134			N/A
10/15/2018	GBPHUF	9:30:00 AM	367.58	367.96			N/A
10/15/2018	GBPHUF	11:30:00 AM	367.61	368.07			N/A
10/15/2018	GBPHUF	1:30:00 PM	366.97	367.43			N/A
10/15/2018	GBPHUF	3:30:00 PM	366.98	367.35			N/A
10/15/2018	GBPJPY	9:30:00 AM	146.804	146.788			N/A
10/15/2018	GBPJPY	11:30:00 AM	146.609	146.615			N/A
10/15/2018	GBPJPY	1:30:00 PM	146.887	146.929		200	N/A
10/15/2018	GBPJPY	3:30:00 PM	147.271	147.204			N/A
10/15/2018	GBPMXN	9:30:00 AM	24.7479	24.7522			N/A
10/15/2018	GBPMXN	11:30:00 AM	24.7254	24.7387			N/A
10/15/2018	GBPMXN	1:30:00 PM	24.7318	24.7457			N/A
10/15/2018	GBPMXN	3:30:00 PM	24.7743	24.7749			N/A
10/15/2018	GBPNOK	9:30:00 AM	10.7199	10.7273			N/A
10/15/2018	GBPNOK	11:30:00 AM	10.7279	10.7368			N/A
10/15/2018	GBPNOK	1:30:00 PM	10.7138	10.7239			N/A
10/15/2018	GBPNOK	3:30:00 PM	10.7318	10.7349			N/A
10/15/2018	GBPNZD	9:30:00 AM	2.0162	2.01588			N/A
10/15/2018	GBPNZD	11:30:00 AM	2.01072	2.01078			N/A
10/15/2018	GBPNZD	1:30:00 PM	2.01156	2.01241			N/A
10/15/2018	GBPNZD	3:30:00 PM	2.01324	2.0132			N/A
10/15/2018	GBPPLN	9:30:00 AM	4.8707	4.871			N/A
10/15/2018	GBPPLN	11:30:00 AM	4.8716	4.8724			N/A
10/15/2018	GBPPLN	1:30:00 PM	4.8742	4.8749			N/A
10/15/2018	GBPPLN	3:30:00 PM	4.8773	4.8775			N/A
10/15/2018	GBPSEK	9:30:00 AM	11.7742	11.781			N/A
10/15/2018	GBPSEK	11:30:00 AM	11.7959	11.8052			N/A
10/15/2018	GBPSEK	1:30:00 PM	11.7774	11.7857			N/A
10/15/2018	GBPSEK	3:30:00 PM	11.7948	11.7994			N/A
10/15/2018	GBPSGD	9:30:00 AM	1.8085	1.8087			N/A
10/15/2018	GBPSGD	11:30:00 AM	1.8073	1.808			N/A
10/15/2018	GBPSGD	1:30:00 PM	1.8103	1.8111			N/A
10/15/2018	GBPSGD	3:30:00 PM	1.8124	1.8122			N/A
10/15/2018	GBPUSD	9:30:00 AM	1.31216	1.31164			N/A
10/15/2018	GBPUSD	11:30:00 AM	1.31211	1.31206			N/A
10/15/2018	GBPUSD	1:30:00 PM	1.31513	1.31508			N/A

10/15/2018	GBPUSD	3:30:00 PM	1.31659	1.31585			N/A
10/15/2018	GBPZAR	9:30:00 AM	18.9639	18.9869			N/A
10/15/2018	GBPZAR	11:30:00 AM	18.9837	19.0062			N/A
10/15/2018	GBPZAR	1:30:00 PM	19.0003	19.0227			N/A
10/15/2018	GBPZAR	3:30:00 PM	18.9699	18.9649			N/A
10/15/2018	GOLD	9:30:00 AM	1223.23	1223.44			N/A
10/15/2018	GOLD	11:30:00 AM	1228.17	1228.27			N/A
10/15/2018	GOLD	1:30:00 PM	1231.06	1231.26			N/A
10/15/2018	GOLD	3:30:00 PM	1230.6	1230.51			N/A
10/15/2018	HKDJPY	9:30:00 AM					N/A
10/15/2018	HKDJPY	11:30:00 AM	14.25	14.27			N/A
10/15/2018	HKDJPY	1:30:00 PM					N/A
10/15/2018	HKDJPY	3:30:00 PM	14.27	14.29			N/A
10/15/2018	HUFJPY	9:30:00 AM	0.3993	0.3996			N/A
10/15/2018	HUFJPY	11:30:00 AM					N/A
10/15/2018	HUFJPY	1:30:00 PM	0.3999	0.4001			N/A
10/15/2018	HUFJPY	3:30:00 PM	0.4009	0.4012			N/A
10/15/2018	MXNJPY	9:30:00 AM					N/A
10/15/2018	MXNJPY	11:30:00 AM					N/A
10/15/2018	MXNJPY	1:30:00 PM					N/A
10/15/2018	MXNJPY	3:30:00 PM					N/A
10/15/2018	NOKJPY	9:30:00 AM	13.69	13.73			N/A
10/15/2018	NOKJPY	11:30:00 AM					N/A
10/15/2018	NOKJPY	1:30:00 PM					N/A
10/15/2018	NOKJPY	3:30:00 PM					N/A
10/15/2018	NZDCAD	9:30:00 AM	0.84721	0.84788			N/A
10/15/2018	NZDCAD	11:30:00 AM	0.84973	0.8503			N/A
10/15/2018	NZDCAD	1:30:00 PM	0.85053	0.85124			N/A
10/15/2018	NZDCAD	3:30:00 PM	0.85099	0.85152			N/A
10/15/2018	NZDCHF	9:30:00 AM	0.64406	0.64469			N/A
10/15/2018	NZDCHF	11:30:00 AM	0.64603	0.6465			N/A
10/15/2018	NZDCHF	1:30:00 PM	0.64396	0.64464			N/A
10/15/2018	NZDCHF	3:30:00 PM	0.64458	0.64506			N/A
10/15/2018	NZDCZK	9:30:00 AM	14.52	14.531			N/A
10/15/2018	NZDCZK	11:30:00 AM	14.545	14.554			N/A
10/15/2018	NZDCZK	1:30:00 PM	14.529	14.541			N/A
10/15/2018	NZDCZK	3:30:00 PM	14.541	14.545			N/A
10/15/2018	NZDDKK	9:30:00 AM					N/A
10/15/2018	NZDDKK	11:30:00 AM	4.209	4.212			N/A
10/15/2018	NZDDKK	1:30:00 PM					N/A
10/15/2018	NZDDKK	3:30:00 PM	4.207	4.21			N/A
10/15/2018	NZDHKD	9:30:00 AM	5.097	5.0998			N/A
10/15/2018	NZDHKD	11:30:00 AM	5.1117	5.1138			N/A
10/15/2018	NZDHKD	1:30:00 PM	5.1197	5.1226			N/A
10/15/2018	NZDHKD	3:30:00 PM	5.1211	5.1221			N/A
10/15/2018	NZDHUF	9:30:00 AM	182.25	182.52			N/A
10/15/2018	NZDHUF	11:30:00 AM	182.8	183.03			N/A
10/15/2018	NZDHUF	1:30:00 PM	182.35	182.64			N/A
10/15/2018	NZDHUF	3:30:00 PM	182.24	182.48			N/A
10/15/2018	NZDJPY	9:30:00 AM	72.783	72.846			N/A

10/15/2018	NZDJPY	11:30:00 AM	72.892	72.929			N/A
10/15/2018	NZDJPY	1:30:00 PM	72.982	73.05			N/A
10/15/2018	NZDJPY	3:30:00 PM	73.107	73.158			N/A
10/15/2018	NZDMXN	9:30:00 AM	12.2724	12.276			N/A
10/15/2018	NZDMXN	11:30:00 AM	12.2969	12.2998			N/A
10/15/2018	NZDMXN	1:30:00 PM	12.2907	12.2968			N/A
10/15/2018	NZDMXN	3:30:00 PM	12.3027	12.3062			N/A
10/15/2018	NZDNOK	9:30:00 AM	5.3153	5.3164			N/A
10/15/2018	NZDNOK	11:30:00 AM	5.3342	5.3364			N/A
10/15/2018	NZDNOK	1:30:00 PM	5.3232	5.327			N/A
10/15/2018	NZDNOK	3:30:00 PM	5.327	5.3283			N/A
10/15/2018	NZDPLN	9:30:00 AM	2.4138	2.4152			N/A
10/15/2018	NZDPLN	11:30:00 AM	2.4212	2.4221			N/A
10/15/2018	NZDPLN	1:30:00 PM	2.4212	2.4224			N/A
10/15/2018	NZDPLN	3:30:00 PM	2.4207	2.4216			N/A
10/15/2018	NZDSEK	9:30:00 AM	5.8367	5.8426			N/A
10/15/2018	NZDSEK	11:30:00 AM	5.8634	5.8685			N/A
10/15/2018	NZDSEK	1:30:00 PM	5.8499	5.8568			N/A
10/15/2018	NZDSEK	3:30:00 PM	5.8535	5.8597			N/A
10/15/2018	NZDSGD	9:30:00 AM	0.897	0.8975			N/A
10/15/2018	NZDSGD	11:30:00 AM	0.8989	0.8994			N/A
10/15/2018	NZDSGD	1:30:00 PM	0.8998	0.9003			N/A
10/15/2018	NZDSGD	3:30:00 PM	0.9	0.9007			N/A
10/15/2018	NZDUSD	9:30:00 AM	0.65042	0.65054			N/A
10/15/2018	NZDUSD	11:30:00 AM	0.65229	0.65223			N/A
10/15/2018	NZDUSD	1:30:00 PM	0.65333	0.65346			N/A
10/15/2018	NZDUSD	3:30:00 PM	0.65352	0.65357			N/A
10/15/2018	NZDZAR	9:30:00 AM	9.3986	9.4147			N/A
10/15/2018	NZDZAR	11:30:00 AM	9.4342	9.4481			N/A
10/15/2018	NZDZAR	1:30:00 PM	9.4344	9.4503			N/A
10/15/2018	NZDZAR	3:30:00 PM	9.4138	9.4177			N/A
10/15/2018	SEKJPY	9:30:00 AM	12.47	12.48			N/A
10/15/2018	SEKJPY	11:30:00 AM	12.43	12.44			N/A
10/15/2018	SEKJPY	1:30:00 PM					N/A
10/15/2018	SEKJPY	3:30:00 PM					N/A
10/15/2018	SGDJPY	9:30:00 AM	81.13	81.16			N/A
10/15/2018	SGDJPY	11:30:00 AM	81.08	81.1			N/A
10/15/2018	SGDJPY	1:30:00 PM	81.11	81.14			N/A
10/15/2018	SGDJPY	3:30:00 PM	81.23	81.23			N/A
10/15/2018	SILVER	9:30:00 AM	14.44	14.83			N/A
10/15/2018	SILVER	11:30:00 AM	14.49	14.88			N/A
10/15/2018	SILVER	1:30:00 PM	14.53	14.92			N/A
10/15/2018	SILVER	3:30:00 PM	14.53	14.92			N/A
10/15/2018	USDCAD	9:30:00 AM	1.30248	1.30248			N/A
10/15/2018	USDCAD	11:30:00 AM	1.30276	1.3027			N/A
10/15/2018	USDCAD	1:30:00 PM	1.30174	1.30187			N/A
10/15/2018	USDCAD	3:30:00 PM	1.3022	1.30183			N/A
10/15/2018	USDCHF	9:30:00 AM	0.9902	0.99025			N/A
10/15/2018	USDCHF	11:30:00 AM	0.9904	0.99045			N/A
10/15/2018	USDCHF	1:30:00 PM	0.98576	0.98566			N/A

10/15/2018	USDCHF	3:30:00 PM	0.98612	0.98652			N/A
10/15/2018	USDCZK	9:30:00 AM	22.315	22.338			N/A
10/15/2018	USDCZK	11:30:00 AM	22.29	22.313			N/A
10/15/2018	USDCZK	1:30:00 PM	22.233	22.255			N/A
10/15/2018	USDCZK	3:30:00 PM	22.248	22.267			N/A
10/15/2018	USDDKK	9:30:00 AM	6.456	6.4609			N/A
10/15/2018	USDDKK	11:30:00 AM	6.4532	6.4583			N/A
10/15/2018	USDDKK	1:30:00 PM	6.4368	6.4415			N/A
10/15/2018	USDDKK	3:30:00 PM	6.4391	6.4426			N/A
10/15/2018	USDHKD	9:30:00 AM	7.8375	7.8379			N/A
10/15/2018	USDHKD	11:30:00 AM	7.8374	7.8378			N/A
10/15/2018	USDHKD	1:30:00 PM	7.8372	7.8377			N/A
10/15/2018	USDHKD	3:30:00 PM					N/A
10/15/2018	USDHUF	9:30:00 AM	280.2	280.65			N/A
10/15/2018	USDHUF	11:30:00 AM	280.23	280.67			N/A
10/15/2018	USDHUF	1:30:00 PM	279.11	279.55			N/A
10/15/2018	USDHUF	3:30:00 PM	278.86	279.24			N/A
10/15/2018	USDJPY	9:30:00 AM	111.911	111.923			N/A
10/15/2018	USDJPY	11:30:00 AM	111.762	111.753			N/A
10/15/2018	USDJPY	1:30:00 PM	111.728	111.731			N/A
10/15/2018	USDJPY	3:30:00 PM	111.883	111.862			N/A
10/15/2018	USDMXN	9:30:00 AM	18.868	18.875			N/A
10/15/2018	USDMXN	11:30:00 AM	18.852	18.858			N/A
10/15/2018	USDMXN	1:30:00 PM	18.812	18.82			N/A
10/15/2018	USDMXN	3:30:00 PM	18.829	18.829			N/A
10/15/2018	USDNOK	9:30:00 AM	8.1715	8.1772			N/A
10/15/2018	USDNOK	11:30:00 AM	8.1774	8.1841			N/A
10/15/2018	USDNOK	1:30:00 PM	8.1483	8.1551			N/A
10/15/2018	USDNOK	3:30:00 PM	8.1549	8.1581			N/A
10/15/2018	USDPLN	9:30:00 AM	3.7121	3.7132			N/A
10/15/2018	USDPLN	11:30:00 AM	3.7129	3.7137			N/A
10/15/2018	USDPLN	1:30:00 PM	3.7059	3.7069			N/A
10/15/2018	USDPLN	3:30:00 PM	3.7051	3.7056			N/A
10/15/2018	USDRUR	9:30:00 AM					N/A
10/15/2018	USDRUR	11:30:00 AM	65.549	65.941			N/A
10/15/2018	USDRUR	1:30:00 PM	65.435	65.804			N/A
10/15/2018	USDRUR	3:30:00 PM	65.309	65.695			N/A
10/15/2018	USDSEK	9:30:00 AM	8.9741	8.9779			N/A
10/15/2018	USDSEK	11:30:00 AM	8.9893	8.9946			N/A
10/15/2018	USDSEK	1:30:00 PM	8.9558	8.9594			N/A
10/15/2018	USDSEK	3:30:00 PM	8.9596	8.9632			N/A
10/15/2018	USDSGD	9:30:00 AM	1.3784	1.3787			N/A
10/15/2018	USDSGD	11:30:00 AM	1.3775	1.3778			N/A
10/15/2018	USDSGD	1:30:00 PM	1.3766	1.377			N/A
10/15/2018	USDSGD	3:30:00 PM	1.3767	1.377			N/A
10/15/2018	USDZAR	9:30:00 AM	14.458	14.4729			N/A
10/15/2018	USDZAR	11:30:00 AM	14.4706	14.484			N/A
10/15/2018	USDZAR	1:30:00 PM	14.4482	14.4633			N/A
10/15/2018	USDZAR	3:30:00 PM	14.4111	14.4074			N/A
10/15/2018	XAUUSD	9:30:00 AM	1223.23	1223.44			N/A

10/15/2018	XAUUSD	11:30:00 AM	1228.17	1228.27			N/A
10/15/2018	XAUUSD	1:30:00 PM	1231.06	1231.25			N/A
10/15/2018	XAUUSD	3:30:00 PM	1230.6	1230.51			N/A
10/15/2018	ZARJPY	9:30:00 AM					N/A
10/15/2018	ZARJPY	11:30:00 AM					N/A
10/15/2018	ZARJPY	1:30:00 PM					N/A
10/15/2018	ZARJPY	3:30:00 PM	7.72	7.73			N/A
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10/16/2018	#AA	11:30:00 AM					N/A
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10/16/2018	#AA	3:30:00 PM					N/A
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10/16/2018	#CMCSA	3:30:00 PM					N/A
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10/16/2018	#CSCO	11:30:00 AM					N/A
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10/16/2018	#DD	3:30:00 PM					N/A
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10/16/2018	#DIS	3:30:00 PM					N/A
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10/16/2018	AUDHKD	9:30:00 AM	5.5759	5.5793			N/A
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10/16/2018	AUDJPY	3:30:00 PM	79.953	80.017			N/A
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10/16/2018	AUDPLN	1:30:00 PM	2.6428	2.6459			N/A
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10/16/2018	AUDSGD	3:30:00 PM	0.9804	0.9806			N/A
10/16/2018	AUDUSD	9:30:00 AM	0.71196	0.71207			N/A
10/16/2018	AUDUSD	11:30:00 AM	0.71298	0.713			N/A
10/16/2018	AUDUSD	1:30:00 PM	0.71266	0.7128			N/A
10/16/2018	AUDUSD	3:30:00 PM	0.71361	0.71361			N/A
10/16/2018	AUDZAR	9:30:00 AM	10.2226	10.2329			N/A
10/16/2018	AUDZAR	11:30:00 AM	10.1851	10.1954			N/A
10/16/2018	AUDZAR	1:30:00 PM	10.182	10.195			N/A
10/16/2018	AUDZAR	3:30:00 PM	10.1548	10.1652			N/A
10/16/2018	CADCHF	9:30:00 AM	0.76095	0.76163			N/A
10/16/2018	CADCHF	11:30:00 AM	0.76092	0.76139			N/A
10/16/2018	CADCHF	1:30:00 PM	0.76222	0.76283			N/A
10/16/2018	CADCHF	3:30:00 PM	0.76202	0.76254			N/A
10/16/2018	CADCZK	9:30:00 AM	17.161	17.177			N/A
10/16/2018	CADCZK	11:30:00 AM	17.138	17.154			N/A
10/16/2018	CADCZK	1:30:00 PM	17.192	17.208			N/A
10/16/2018	CADCZK	3:30:00 PM	17.198	17.213			N/A
10/16/2018	CADDKK	9:30:00 AM	4.961	4.964			N/A
10/16/2018	CADDKK	11:30:00 AM					N/A
10/16/2018	CADDKK	1:30:00 PM	4.97	4.974			N/A
10/16/2018	CADDKK	3:30:00 PM	4.97	4.974			N/A
10/16/2018	CADHKD	9:30:00 AM	6.0301	6.0339			N/A
10/16/2018	CADHKD	11:30:00 AM	6.0356	6.0394			N/A
10/16/2018	CADHKD	1:30:00 PM	6.0419	6.0458			N/A
10/16/2018	CADHKD	3:30:00 PM	6.0461	6.0493			N/A
10/16/2018	CADHUF	9:30:00 AM	214.48	214.63			N/A

10/16/2018	CADHUF	11:30:00 AM	213.99	214.16			N/A
10/16/2018	CADHUF	1:30:00 PM	214.55	214.71			N/A
10/16/2018	CADHUF	3:30:00 PM	214.45	214.61			N/A
10/16/2018	CADJPY	9:30:00 AM	86.241	86.293			N/A
10/16/2018	CADJPY	11:30:00 AM	86.369	86.434			N/A
10/16/2018	CADJPY	1:30:00 PM	86.393	86.446			N/A
10/16/2018	CADJPY	3:30:00 PM	86.488	86.547			N/A
10/16/2018	CADMXN	9:30:00 AM	14.533	14.5396			N/A
10/16/2018	CADMXN	11:30:00 AM	14.5293	14.5415			N/A
10/16/2018	CADMXN	1:30:00 PM	14.5086	14.5205			N/A
10/16/2018	CADMXN	3:30:00 PM	14.4946	14.4967			N/A
10/16/2018	CADNOK	9:30:00 AM	6.2756	6.2793			N/A
10/16/2018	CADNOK	11:30:00 AM	6.2634	6.268			N/A
10/16/2018	CADNOK	1:30:00 PM	6.2789	6.2834			N/A
10/16/2018	CADNOK	3:30:00 PM	6.2753	6.2788			N/A
10/16/2018	CADPLN	9:30:00 AM	2.8529	2.8543			N/A
10/16/2018	CADPLN	11:30:00 AM	2.8521	2.854			N/A
10/16/2018	CADPLN	1:30:00 PM	2.8602	2.8621			N/A
10/16/2018	CADPLN	3:30:00 PM	2.8561	2.8579			N/A
10/16/2018	CADSEK	9:30:00 AM	6.8952	6.8963			N/A
10/16/2018	CADSEK	11:30:00 AM	6.8657	6.8693			N/A
10/16/2018	CADSEK	1:30:00 PM	6.873	6.8767			N/A
10/16/2018	CADSEK	3:30:00 PM	6.8678	6.8711			N/A
10/16/2018	CADSGD	9:30:00 AM	1.0601	1.0604			N/A
10/16/2018	CADSGD	11:30:00 AM	1.0601	1.0604			N/A
10/16/2018	CADSGD	1:30:00 PM	1.0611	1.0614			N/A
10/16/2018	CADSGD	3:30:00 PM	1.0605	1.0608			N/A
10/16/2018	CADZAR	9:30:00 AM	11.0514	11.064			N/A
10/16/2018	CADZAR	11:30:00 AM	11.0034	11.019			N/A
10/16/2018	CADZAR	1:30:00 PM	11.0152	11.0301			N/A
10/16/2018	CADZAR	3:30:00 PM	10.9811	10.9939			N/A
10/16/2018	CHFCZK	9:30:00 AM	22.545	22.561			N/A
10/16/2018	CHFCZK	11:30:00 AM	22.523	22.531			N/A
10/16/2018	CHFCZK	1:30:00 PM	22.551	22.564			N/A
10/16/2018	CHFCZK	3:30:00 PM	22.565	22.579			N/A
10/16/2018	CHFDKK	9:30:00 AM					N/A
10/16/2018	CHFDKK	11:30:00 AM	6.514	6.517			N/A
10/16/2018	CHFDKK	1:30:00 PM	6.518	6.522			N/A
10/16/2018	CHFDKK	3:30:00 PM					N/A
10/16/2018	CHFHKD	9:30:00 AM	7.923	7.926			N/A
10/16/2018	CHFHKD	11:30:00 AM	7.9323	7.9336			N/A
10/16/2018	CHFHKD	1:30:00 PM	7.9237	7.9277			N/A
10/16/2018	CHFHKD	3:30:00 PM	7.9331	7.9364			N/A
10/16/2018	CHFHUF	9:30:00 AM	281.66	282.01			N/A
10/16/2018	CHFHUF	11:30:00 AM	281.11	281.42			N/A
10/16/2018	CHFHUF	1:30:00 PM	281.31	281.67			N/A
10/16/2018	CHFHUF	3:30:00 PM	281.27	281.62			N/A
10/16/2018	CHFJPY	9:30:00 AM	113.23	113.293			N/A
10/16/2018	CHFJPY	11:30:00 AM	113.442	113.472			N/A
10/16/2018	CHFJPY	1:30:00 PM	113.246	113.309			N/A

10/16/2018	CHFJPY	3:30:00 PM	113.423	113.476			N/A
10/16/2018	CHFMXN	9:30:00 AM	19.0874	19.1017			N/A
10/16/2018	CHFMXN	11:30:00 AM	19.0902	19.0998			N/A
10/16/2018	CHFMXN	1:30:00 PM	19.0273	19.0397			N/A
10/16/2018	CHFMXN	3:30:00 PM	19.0124	19.0206			N/A
10/16/2018	CHFNOK	9:30:00 AM	8.2433	8.2508			N/A
10/16/2018	CHFNOK	11:30:00 AM	8.2295	8.2349			N/A
10/16/2018	CHFNOK	1:30:00 PM	8.2345	8.2419			N/A
10/16/2018	CHFNOK	3:30:00 PM	8.2322	8.239			N/A
10/16/2018	CHFPLN	9:30:00 AM	3.748	3.7505			N/A
10/16/2018	CHFPLN	11:30:00 AM	3.7475	3.7493			N/A
10/16/2018	CHFPLN	1:30:00 PM	3.7511	3.7538			N/A
10/16/2018	CHFPLN	3:30:00 PM	3.747	3.7499			N/A
10/16/2018	CHFSEK	9:30:00 AM	9.0598	9.0602			N/A
10/16/2018	CHFSEK	11:30:00 AM	9.0243	9.0242			N/A
10/16/2018	CHFSEK	1:30:00 PM	9.0163	9.0188			N/A
10/16/2018	CHFSEK	3:30:00 PM	9.0133	9.0145			N/A
10/16/2018	CHFSGD	9:30:00 AM	1.3925	1.393			N/A
10/16/2018	CHFSGD	11:30:00 AM	1.3932	1.3932			N/A
10/16/2018	CHFSGD	1:30:00 PM	1.3916	1.3919			N/A
10/16/2018	CHFSGD	3:30:00 PM	1.3912	1.3916			N/A
10/16/2018	CHFZAR	9:30:00 AM	14.5209	14.5295			N/A
10/16/2018	CHFZAR	11:30:00 AM	14.4601	14.4727			N/A
10/16/2018	CHFZAR	1:30:00 PM	14.4486	14.4614			N/A
10/16/2018	CHFZAR	3:30:00 PM	14.4079	14.4213			N/A
10/16/2018	CZKJPY	9:30:00 AM	5.024	5.028			N/A
10/16/2018	CZKJPY	11:30:00 AM					N/A
10/16/2018	CZKJPY	1:30:00 PM	5.023	5.027			N/A
10/16/2018	CZKJPY	3:30:00 PM	5.028	5.031			N/A
10/16/2018	DKKJPY	9:30:00 AM					N/A
10/16/2018	DKKJPY	11:30:00 AM					N/A
10/16/2018	DKKJPY	1:30:00 PM	17.38	17.4			N/A
10/16/2018	DKKJPY	3:30:00 PM	17.41	17.42			N/A
10/16/2018	EURAUD	9:30:00 AM	1.62608	1.62641			N/A
10/16/2018	EURAUD	11:30:00 AM	1.62607	1.62629			N/A
10/16/2018	EURAUD	1:30:00 PM	1.62399	1.6243			N/A
10/16/2018	EURAUD	3:30:00 PM	1.6236	1.62371			N/A
10/16/2018	EURCAD	9:30:00 AM	1.50391	1.50462			N/A
10/16/2018	EURCAD	11:30:00 AM	1.5046	1.5054			N/A
10/16/2018	EURCAD	1:30:00 PM	1.50092	1.50166			N/A
10/16/2018	EURCAD	3:30:00 PM	1.50111	1.50177			N/A
10/16/2018	EURCHF	9:30:00 AM	1.14479	1.14491			N/A
10/16/2018	EURCHF	11:30:00 AM	1.14544	1.14515			N/A
10/16/2018	EURCHF	1:30:00 PM	1.14445	1.14446			N/A
10/16/2018	EURCHF	3:30:00 PM	1.14427	1.14428			N/A
10/16/2018	EURCZK	9:30:00 AM	25.796	25.835			N/A
10/16/2018	EURCZK	11:30:00 AM	25.782	25.822			N/A
10/16/2018	EURCZK	1:30:00 PM	25.802	25.837			N/A
10/16/2018	EURCZK	3:30:00 PM	25.809	25.845			N/A
10/16/2018	EURDKK	9:30:00 AM	7.46	7.4611			N/A

10/16/2018	EURDKK	11:30:00 AM	7.4601	7.4613			N/A
10/16/2018	EURDKK	1:30:00 PM	7.4603	7.4616			N/A
10/16/2018	EURDKK	3:30:00 PM	7.4603	7.4613			N/A
10/16/2018	EURGBP	9:30:00 AM	0.87966	0.8796			N/A
10/16/2018	EURGBP	11:30:00 AM	0.87807	0.87757			N/A
10/16/2018	EURGBP	1:30:00 PM	0.87547	0.87539			N/A
10/16/2018	EURGBP	3:30:00 PM	0.87674	0.87658			N/A
10/16/2018	EURHKD	9:30:00 AM	9.0691	9.0733			N/A
10/16/2018	EURHKD	11:30:00 AM	9.0822	9.0867			N/A
10/16/2018	EURHKD	1:30:00 PM	9.0684	9.073			N/A
10/16/2018	EURHKD	3:30:00 PM	9.076	9.08			N/A
10/16/2018	EURHUF	9:30:00 AM	322.34	323			N/A
10/16/2018	EURHUF	11:30:00 AM	321.78	322.45			N/A
10/16/2018	EURHUF	1:30:00 PM	321.8	322.48			N/A
10/16/2018	EURHUF	3:30:00 PM	321.72	322.44			N/A
10/16/2018	EURJPY	9:30:00 AM	129.713	129.705			N/A
10/16/2018	EURJPY	11:30:00 AM	129.98	129.968			N/A
10/16/2018	EURJPY	1:30:00 PM	129.689	129.68			N/A
10/16/2018	EURJPY	3:30:00 PM	129.848	129.841			N/A
10/16/2018	EURMXN	9:30:00 AM	21.8533	21.8678			N/A
10/16/2018	EURMXN	11:30:00 AM	21.8606	21.8789			N/A
10/16/2018	EURMXN	1:30:00 PM	21.7755	21.7925			N/A
10/16/2018	EURMXN	3:30:00 PM	21.7554	21.7607			N/A
10/16/2018	EURNOK	9:30:00 AM	9.4356	9.4477			N/A
10/16/2018	EURNOK	11:30:00 AM	9.4218	9.4343			N/A
10/16/2018	EURNOK	1:30:00 PM	9.4224	9.4348			N/A
10/16/2018	EURNOK	3:30:00 PM	9.4178	9.4281			N/A
10/16/2018	EURNZD	9:30:00 AM	1.76317	1.76393			N/A
10/16/2018	EURNZD	11:30:00 AM	1.76207	1.76244			N/A
10/16/2018	EURNZD	1:30:00 PM	1.75838	1.75917			N/A
10/16/2018	EURNZD	3:30:00 PM	1.75855	1.75929			N/A
10/16/2018	EURPLN	9:30:00 AM	4.2911	4.2934			N/A
10/16/2018	EURPLN	11:30:00 AM	4.2915	4.2948			N/A
10/16/2018	EURPLN	1:30:00 PM	4.2929	4.2961			N/A
10/16/2018	EURPLN	3:30:00 PM	4.2874	4.2906			N/A
10/16/2018	EURRUR	9:30:00 AM					N/A
10/16/2018	EURRUR	11:30:00 AM	75.648	76.075			N/A
10/16/2018	EURRUR	1:30:00 PM	75.499	75.939			N/A
10/16/2018	EURRUR	3:30:00 PM	75.559	75.917			N/A
10/16/2018	EURSEK	9:30:00 AM	10.3705	10.3714			N/A
10/16/2018	EURSEK	11:30:00 AM	10.3318	10.3365			N/A
10/16/2018	EURSEK	1:30:00 PM	10.3169	10.3205			N/A
10/16/2018	EURSEK	3:30:00 PM	10.3112	10.3141			N/A
10/16/2018	EURSGD	9:30:00 AM	1.594	1.5948			N/A
10/16/2018	EURSGD	11:30:00 AM	1.595	1.5958			N/A
10/16/2018	EURSGD	1:30:00 PM	1.5923	1.5932			N/A
10/16/2018	EURSGD	3:30:00 PM	1.5917	1.5924			N/A
10/16/2018	EURUSD	9:30:00 AM	1.15745	1.15744			N/A
10/16/2018	EURUSD	11:30:00 AM	1.15898	1.159			N/A
10/16/2018	EURUSD	1:30:00 PM	1.15715	1.15718			N/A

10/16/2018	EURUSD	3:30:00 PM	1.15825	1.1582			N/A
10/16/2018	EURZAR	9:30:00 AM	16.6253	16.6367			N/A
10/16/2018	EURZAR	11:30:00 AM	16.5628	16.5766			N/A
10/16/2018	EURZAR	1:30:00 PM	16.5388	16.5538			N/A
10/16/2018	EURZAR	3:30:00 PM	16.489	16.5029			N/A
10/16/2018	GBPAUD	9:30:00 AM	1.84855	1.84883			N/A
10/16/2018	GBPAUD	11:30:00 AM	1.85266	1.85199			N/A
10/16/2018	GBPAUD	1:30:00 PM	1.85512	1.85524			N/A
10/16/2018	GBPAUD	3:30:00 PM	1.85215	1.85213			N/A
10/16/2018	GBPCAD	9:30:00 AM	1.70945	1.70986			N/A
10/16/2018	GBPCAD	11:30:00 AM	1.71421	1.71386			N/A
10/16/2018	GBPCAD	1:30:00 PM	1.71438	1.71458			N/A
10/16/2018	GBPCAD	3:30:00 PM	1.7123	1.71224			N/A
10/16/2018	GBPCHF	9:30:00 AM	1.30143	1.30159			N/A
10/16/2018	GBPCHF	11:30:00 AM	1.30514	1.30401			N/A
10/16/2018	GBPCHF	1:30:00 PM	1.30719	1.30743			N/A
10/16/2018	GBPCHF	3:30:00 PM	1.30511	1.30541			N/A
10/16/2018	GBPCZK	9:30:00 AM	29.338	29.354			N/A
10/16/2018	GBPCZK	11:30:00 AM	29.382	29.367			N/A
10/16/2018	GBPCZK	1:30:00 PM	29.476	29.491			N/A
10/16/2018	GBPCZK	3:30:00 PM	29.448	29.463			N/A
10/16/2018	GBPDKK	9:30:00 AM	8.478	8.488			N/A
10/16/2018	GBPDKK	11:30:00 AM	8.498	8.5			N/A
10/16/2018	GBPDKK	1:30:00 PM	8.519	8.529			N/A
10/16/2018	GBPDKK	3:30:00 PM	8.508	8.517			N/A
10/16/2018	GBPHKD	9:30:00 AM	10.3085	10.3124			N/A
10/16/2018	GBPHKD	11:30:00 AM	10.3477	10.3462			N/A
10/16/2018	GBPHKD	1:30:00 PM	10.358	10.3607			N/A
10/16/2018	GBPHKD	3:30:00 PM	10.3525	10.3559			N/A
10/16/2018	GBPHUF	9:30:00 AM	366.52	366.93			N/A
10/16/2018	GBPHUF	11:30:00 AM	366.7	366.92			N/A
10/16/2018	GBPHUF	1:30:00 PM	367.7	368.11			N/A
10/16/2018	GBPHUF	3:30:00 PM	367.1	367.47			N/A
10/16/2018	GBPJPY	9:30:00 AM	147.473	147.482			N/A
10/16/2018	GBPJPY	11:30:00 AM	148.134	148.057			N/A
10/16/2018	GBPJPY	1:30:00 PM	148.142	148.16			N/A
10/16/2018	GBPJPY	3:30:00 PM	148.148	148.138		200	N/A
10/16/2018	GBPMXN	9:30:00 AM	24.8401	24.8532			N/A
10/16/2018	GBPMXN	11:30:00 AM	24.9067	24.8926			N/A
10/16/2018	GBPMXN	1:30:00 PM	24.8738	24.8797			N/A
10/16/2018	GBPMXN	3:30:00 PM	24.8152	24.8176			N/A
10/16/2018	GBPNOK	9:30:00 AM	10.7293	10.7382			N/A
10/16/2018	GBPNOK	11:30:00 AM	10.7383	10.7383			N/A
10/16/2018	GBPNOK	1:30:00 PM	10.7661	10.7749			N/A
10/16/2018	GBPNOK	3:30:00 PM	10.7459	10.7541			N/A
10/16/2018	GBPNZD	9:30:00 AM	2.00468	2.00505			N/A
10/16/2018	GBPNZD	11:30:00 AM	2.00808	2.00698			N/A
10/16/2018	GBPNZD	1:30:00 PM	2.009	2.00915			N/A
10/16/2018	GBPNZD	3:30:00 PM	2.00649	2.00644			N/A
10/16/2018	GBPPLN	9:30:00 AM	4.8795	4.8799			N/A

10/16/2018	GBPPLN	11:30:00 AM	4.8912	4.8878			N/A
10/16/2018	GBPPLN	1:30:00 PM	4.9053	4.9061			N/A
10/16/2018	GBPPLN	3:30:00 PM	4.8923	4.893			N/A
10/16/2018	GBPSEK	9:30:00 AM	11.788	11.7942			N/A
10/16/2018	GBPSEK	11:30:00 AM	11.7712	11.7677			N/A
10/16/2018	GBPSEK	1:30:00 PM	11.7843	11.79			N/A
10/16/2018	GBPSEK	3:30:00 PM	11.7623	11.766			N/A
10/16/2018	GBPSGD	9:30:00 AM	1.8125	1.8129			N/A
10/16/2018	GBPSGD	11:30:00 AM	1.8178	1.8163			N/A
10/16/2018	GBPSGD	1:30:00 PM	1.8193	1.8195			N/A
10/16/2018	GBPSGD	3:30:00 PM	1.8159	1.8163			N/A
10/16/2018	GBPUSD	9:30:00 AM	1.316	1.31576			N/A
10/16/2018	GBPUSD	11:30:00 AM	1.32083	1.31925		10	N/A
10/16/2018	GBPUSD	1:30:00 PM	1.32205	1.3217			N/A
10/16/2018	GBPUSD	3:30:00 PM	1.32142	1.32117			N/A
10/16/2018	GBPZAR	9:30:00 AM	18.8984	18.9171			N/A
10/16/2018	GBPZAR	11:30:00 AM	18.8685	18.8786			N/A
10/16/2018	GBPZAR	1:30:00 PM	18.8877	18.9107			N/A
10/16/2018	GBPZAR	3:30:00 PM	18.8093	18.8315			N/A
10/16/2018	GOLD	9:30:00 AM	1226.45	1226.47			N/A
10/16/2018	GOLD	11:30:00 AM	1229.33	1229.4			N/A
10/16/2018	GOLD	1:30:00 PM	1227.98	1228.01			N/A
10/16/2018	GOLD	3:30:00 PM	1231.01	1231.07			N/A
10/16/2018	HKDJPY	9:30:00 AM					N/A
10/16/2018	HKDJPY	11:30:00 AM					N/A
10/16/2018	HKDJPY	1:30:00 PM					N/A
10/16/2018	HKDJPY	3:30:00 PM					N/A
10/16/2018	HUFJPY	9:30:00 AM	0.4021	0.4024			N/A
10/16/2018	HUFJPY	11:30:00 AM	0.4036	0.4039			N/A
10/16/2018	HUFJPY	1:30:00 PM	0.4028	0.4031			N/A
10/16/2018	HUFJPY	3:30:00 PM	0.4035	0.4038			N/A
10/16/2018	MXNJPY	9:30:00 AM					N/A
10/16/2018	MXNJPY	11:30:00 AM					N/A
10/16/2018	MXNJPY	1:30:00 PM	5.95	5.97			N/A
10/16/2018	MXNJPY	3:30:00 PM					N/A
10/16/2018	NOKJPY	9:30:00 AM					N/A
10/16/2018	NOKJPY	11:30:00 AM					N/A
10/16/2018	NOKJPY	1:30:00 PM					N/A
10/16/2018	NOKJPY	3:30:00 PM	13.78	13.82			N/A
10/16/2018	NZDCAD	9:30:00 AM	0.85238	0.85306			N/A
10/16/2018	NZDCAD	11:30:00 AM	0.85348	0.85407			N/A
10/16/2018	NZDCAD	1:30:00 PM	0.85303	0.85374			N/A
10/16/2018	NZDCAD	3:30:00 PM	0.85305	0.85373			N/A
10/16/2018	NZDCHF	9:30:00 AM	0.64883	0.64956			N/A
10/16/2018	NZDCHF	11:30:00 AM	0.64969	0.65004			N/A
10/16/2018	NZDCHF	1:30:00 PM	0.65039	0.65104			N/A
10/16/2018	NZDCHF	3:30:00 PM	0.65022	0.65081			N/A
10/16/2018	NZDCZK	9:30:00 AM	14.63	14.642			N/A
10/16/2018	NZDCZK	11:30:00 AM	14.631	14.641			N/A
10/16/2018	NZDCZK	1:30:00 PM	14.668	14.68			N/A

10/16/2018	NZDCZK	3:30:00 PM	14.674	14.685			N/A
10/16/2018	NZDDKK	9:30:00 AM					N/A
10/16/2018	NZDDKK	11:30:00 AM	4.231	4.235			N/A
10/16/2018	NZDDKK	1:30:00 PM					N/A
10/16/2018	NZDDKK	3:30:00 PM					N/A
10/16/2018	NZDHKD	9:30:00 AM	5.1412	5.1437			N/A
10/16/2018	NZDHKD	11:30:00 AM	5.1528	5.1546			N/A
10/16/2018	NZDHKD	1:30:00 PM	5.1543	5.1571			N/A
10/16/2018	NZDHKD	3:30:00 PM	5.1577	5.1603			N/A
10/16/2018	NZDHUF	9:30:00 AM	182.76	183.03			N/A
10/16/2018	NZDHUF	11:30:00 AM	182.61	182.85			N/A
10/16/2018	NZDHUF	1:30:00 PM	182.96	183.25			N/A
10/16/2018	NZDHUF	3:30:00 PM	182.88	183.16			N/A
10/16/2018	NZDJPY	9:30:00 AM	73.527	73.59			N/A
10/16/2018	NZDJPY	11:30:00 AM	73.74	73.793			N/A
10/16/2018	NZDJPY	1:30:00 PM	73.713	73.775			N/A
10/16/2018	NZDJPY	3:30:00 PM	73.797	73.866			N/A
10/16/2018	NZDMXN	9:30:00 AM	12.388	12.3929			N/A
10/16/2018	NZDMXN	11:30:00 AM	12.4036	12.4064			N/A
10/16/2018	NZDMXN	1:30:00 PM	12.3779	12.3834			N/A
10/16/2018	NZDMXN	3:30:00 PM	12.3657	12.3652			N/A
10/16/2018	NZDNOK	9:30:00 AM	5.3494	5.3533			N/A
10/16/2018	NZDNOK	11:30:00 AM	5.3465	5.3494			N/A
10/16/2018	NZDNOK	1:30:00 PM	5.3566	5.3598			N/A
10/16/2018	NZDNOK	3:30:00 PM	5.3532	5.3564			N/A
10/16/2018	NZDPLN	9:30:00 AM	2.4324	2.4337			N/A
10/16/2018	NZDPLN	11:30:00 AM	2.4346	2.436			N/A
10/16/2018	NZDPLN	1:30:00 PM	2.4399	2.441			N/A
10/16/2018	NZDPLN	3:30:00 PM	2.4365	2.4378			N/A
10/16/2018	NZDSEK	9:30:00 AM	5.8755	5.8804			N/A
10/16/2018	NZDSEK	11:30:00 AM	5.8588	5.8643			N/A
10/16/2018	NZDSEK	1:30:00 PM	5.8615	5.8684			N/A
10/16/2018	NZDSEK	3:30:00 PM	5.8568	5.8637			N/A
10/16/2018	NZDSGD	9:30:00 AM	0.9039	0.9047			N/A
10/16/2018	NZDSGD	11:30:00 AM	0.9051	0.9058			N/A
10/16/2018	NZDSGD	1:30:00 PM	0.9054	0.906			N/A
10/16/2018	NZDSGD	3:30:00 PM	0.9049	0.9056			N/A
10/16/2018	NZDUSD	9:30:00 AM	0.65601	0.65615			N/A
10/16/2018	NZDUSD	11:30:00 AM	0.65743	0.65747			N/A
10/16/2018	NZDUSD	1:30:00 PM	0.65762	0.65777			N/A
10/16/2018	NZDUSD	3:30:00 PM	0.65823	0.6583			N/A
10/16/2018	NZDZAR	9:30:00 AM	9.419	9.4322			N/A
10/16/2018	NZDZAR	11:30:00 AM	9.392	9.404			N/A
10/16/2018	NZDZAR	1:30:00 PM	9.3941	9.4105			N/A
10/16/2018	NZDZAR	3:30:00 PM	9.3664	9.3803			N/A
10/16/2018	SEKJPY	9:30:00 AM					N/A
10/16/2018	SEKJPY	11:30:00 AM					N/A
10/16/2018	SEKJPY	1:30:00 PM					N/A
10/16/2018	SEKJPY	3:30:00 PM	12.6	12.61			N/A
10/16/2018	SGDJPY	9:30:00 AM	81.33	81.36			N/A

10/16/2018	SGDJPY	11:30:00 AM	81.45	81.48			N/A
10/16/2018	SGDJPY	1:30:00 PM	81.41	81.44			N/A
10/16/2018	SGDJPY	3:30:00 PM	81.54	81.57			N/A
10/16/2018	SILVER	9:30:00 AM	14.44	14.82			N/A
10/16/2018	SILVER	11:30:00 AM	14.52	14.9			N/A
10/16/2018	SILVER	1:30:00 PM	14.53	14.92			N/A
10/16/2018	SILVER	3:30:00 PM	14.62	15			N/A
10/16/2018	USDCAD	9:30:00 AM	1.2992	1.29923			N/A
10/16/2018	USDCAD	11:30:00 AM	1.29811	1.29824			N/A
10/16/2018	USDCAD	1:30:00 PM	1.29705	1.29699			N/A
10/16/2018	USDCAD	3:30:00 PM	1.29604	1.29586			N/A
10/16/2018	USDCHF	9:30:00 AM	0.98902	0.98914			N/A
10/16/2018	USDCHF	11:30:00 AM	0.98823	0.98794			N/A
10/16/2018	USDCHF	1:30:00 PM	0.98898	0.98898			N/A
10/16/2018	USDCHF	3:30:00 PM	0.98785	0.98796			N/A
10/16/2018	USDCZK	9:30:00 AM	22.294	22.316			N/A
10/16/2018	USDCZK	11:30:00 AM	22.247	22.27			N/A
10/16/2018	USDCZK	1:30:00 PM	22.299	22.321			N/A
10/16/2018	USDCZK	3:30:00 PM	22.285	22.307			N/A
10/16/2018	USDDKK	9:30:00 AM	6.4464	6.4511			N/A
10/16/2018	USDDKK	11:30:00 AM	6.4377	6.4426			N/A
10/16/2018	USDDKK	1:30:00 PM	6.4479	6.453			N/A
10/16/2018	USDDKK	3:30:00 PM	6.4422	6.4469			N/A
10/16/2018	USDHKD	9:30:00 AM					N/A
10/16/2018	USDHKD	11:30:00 AM	7.8372	7.8376			N/A
10/16/2018	USDHKD	1:30:00 PM					N/A
10/16/2018	USDHKD	3:30:00 PM	7.8367	7.8372			N/A
10/16/2018	USDHUF	9:30:00 AM	278.6	278.99			N/A
10/16/2018	USDHUF	11:30:00 AM	277.73	278.17			N/A
10/16/2018	USDHUF	1:30:00 PM	278.19	278.65			N/A
10/16/2018	USDHUF	3:30:00 PM	277.85	278.27			N/A
10/16/2018	USDJPY	9:30:00 AM	112.094	112.093			N/A
10/16/2018	USDJPY	11:30:00 AM	112.178	112.181			N/A
10/16/2018	USDJPY	1:30:00 PM	112.099	112.1			N/A
10/16/2018	USDJPY	3:30:00 PM	112.141	112.143			N/A
10/16/2018	USDMXN	9:30:00 AM	18.885	18.889			N/A
10/16/2018	USDMXN	11:30:00 AM	18.865	18.873			N/A
10/16/2018	USDMXN	1:30:00 PM	18.821	18.828			N/A
10/16/2018	USDMXN	3:30:00 PM	18.789	18.783			N/A
10/16/2018	USDNOK	9:30:00 AM	8.154	8.1622			N/A
10/16/2018	USDNOK	11:30:00 AM	8.1314	8.1399			N/A
10/16/2018	USDNOK	1:30:00 PM	8.1444	8.153			N/A
10/16/2018	USDNOK	3:30:00 PM	8.1334	8.1402			N/A
10/16/2018	USDPLN	9:30:00 AM	3.7081	3.7086			N/A
10/16/2018	USDPLN	11:30:00 AM	3.7032	3.7046			N/A
10/16/2018	USDPLN	1:30:00 PM	3.7104	3.7117			N/A
10/16/2018	USDPLN	3:30:00 PM	3.7024	3.7035			N/A
10/16/2018	USDRUR	9:30:00 AM					N/A
10/16/2018	USDRUR	11:30:00 AM	65.339	65.72			N/A
10/16/2018	USDRUR	1:30:00 PM	65.317	65.706			N/A

10/16/2018	USDRUR	3:30:00 PM	65.312	65.637			N/A
10/16/2018	USDSEK	9:30:00 AM	8.9583	8.9592			N/A
10/16/2018	USDSEK	11:30:00 AM	8.9124	8.9165			N/A
10/16/2018	USDSEK	1:30:00 PM	8.9138	8.9174			N/A
10/16/2018	USDSEK	3:30:00 PM	8.9005	8.9037			N/A
10/16/2018	USDSGD	9:30:00 AM	1.3773	1.3777			N/A
10/16/2018	USDSGD	11:30:00 AM	1.3763	1.3766			N/A
10/16/2018	USDSGD	1:30:00 PM	1.3762	1.3765			N/A
10/16/2018	USDSGD	3:30:00 PM	1.3743	1.3747			N/A
10/16/2018	USDZAR	9:30:00 AM	14.3638	14.3749			N/A
10/16/2018	USDZAR	11:30:00 AM	14.2896	14.303			N/A
10/16/2018	USDZAR	1:30:00 PM	14.2895	14.3064			N/A
10/16/2018	USDZAR	3:30:00 PM	14.2359	14.2494			N/A
10/16/2018	XAUUSD	9:30:00 AM	1226.45	1226.47			N/A
10/16/2018	XAUUSD	11:30:00 AM	1229.33	1229.41			N/A
10/16/2018	XAUUSD	1:30:00 PM	1227.98	1228			N/A
10/16/2018	XAUUSD	3:30:00 PM	1231.01	1231.06			N/A
10/16/2018	ZARJPY	9:30:00 AM					N/A
10/16/2018	ZARJPY	11:30:00 AM	7.8	7.84			N/A
10/16/2018	ZARJPY	1:30:00 PM					N/A
10/16/2018	ZARJPY	3:30:00 PM	7.83	7.86			N/A
10/17/2018	#AA	9:30:00 AM					N/A
10/17/2018	#AA	11:30:00 AM					N/A
10/17/2018	#AA	1:30:00 PM					N/A
10/17/2018	#AA	3:30:00 PM					N/A
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10/17/2018	#AMZN	3:30:00 PM					N/A
10/17/2018	#AXP	9:30:00 AM					N/A
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10/17/2018	#DIS	3:30:00 PM					N/A
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10/17/2018	#DWDP	1:30:00 PM					N/A
10/17/2018	#DWDP	3:30:00 PM					N/A
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10/17/2018	AUDCZK	1:30:00 PM	15.933	15.95			N/A
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10/17/2018	AUDDKK	1:30:00 PM	4.6021	4.6062			N/A
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10/17/2018	AUDHKD	1:30:00 PM	5.5894	5.5933			N/A
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10/17/2018	AUDHUF	1:30:00 PM	198.79	199.01			N/A
10/17/2018	AUDHUF	3:30:00 PM	198.99	199.24			N/A
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10/17/2018	AUDJPY	3:30:00 PM	79.916	79.98			N/A
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10/17/2018	AUDMXN	1:30:00 PM	13.4297	13.4383			N/A
10/17/2018	AUDMXN	3:30:00 PM	13.4043	13.4139			N/A
10/17/2018	AUDNOK	9:30:00 AM	5.8174	5.8231			N/A
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10/17/2018	AUDPLN	11:30:00 AM	2.6527	2.6553			N/A
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10/17/2018	AUDSEK	9:30:00 AM	6.3675	6.371			N/A
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10/17/2018	AUDSEK	3:30:00 PM	6.3648	6.368			N/A
10/17/2018	AUDSGD	9:30:00 AM	0.9809	0.9812			N/A
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10/17/2018	AUDZAR	9:30:00 AM	10.1227	10.1338			N/A
10/17/2018	AUDZAR	11:30:00 AM	10.1735	10.1829			N/A
10/17/2018	AUDZAR	1:30:00 PM	10.1749	10.1842			N/A
10/17/2018	AUDZAR	3:30:00 PM	10.1438	10.1529			N/A
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10/17/2018	CADCHF	11:30:00 AM	0.76519	0.76578			N/A
10/17/2018	CADCHF	1:30:00 PM	0.76503	0.76575			N/A

10/17/2018	CADCHF	3:30:00 PM	0.76494	0.7655			N/A
10/17/2018	CADCZK	9:30:00 AM	17.237	17.249			N/A
10/17/2018	CADCZK	11:30:00 AM	17.251	17.26			N/A
10/17/2018	CADCZK	1:30:00 PM	17.238	17.254			N/A
10/17/2018	CADCZK	3:30:00 PM	17.261	17.277			N/A
10/17/2018	CADDDKK	9:30:00 AM					N/A
10/17/2018	CADDDKK	11:30:00 AM	4.982	4.985			N/A
10/17/2018	CADDDKK	1:30:00 PM	4.979	4.983			N/A
10/17/2018	CADDDKK	3:30:00 PM	4.985	4.989			N/A
10/17/2018	CADHKD	9:30:00 AM	6.0489	6.0527			N/A
10/17/2018	CADHKD	11:30:00 AM	6.0524	6.0563			N/A
10/17/2018	CADHKD	1:30:00 PM	6.0467	6.0506			N/A
10/17/2018	CADHKD	3:30:00 PM	6.0393	6.0414			N/A
10/17/2018	CADHUF	9:30:00 AM	214.93	214.99			N/A
10/17/2018	CADHUF	11:30:00 AM	215.1	215.17			N/A
10/17/2018	CADHUF	1:30:00 PM	215.1	215.23			N/A
10/17/2018	CADHUF	3:30:00 PM	215.43	215.56			N/A
10/17/2018	CADJPY	9:30:00 AM	86.607	86.673			N/A
10/17/2018	CADJPY	11:30:00 AM	86.661	86.715			N/A
10/17/2018	CADJPY	1:30:00 PM	86.527	86.593			N/A
10/17/2018	CADJPY	3:30:00 PM	86.49	86.533			N/A
10/17/2018	CADMXN	9:30:00 AM	14.4854	14.4958			N/A
10/17/2018	CADMXN	11:30:00 AM	14.5096	14.519			N/A
10/17/2018	CADMXN	1:30:00 PM	14.5297	14.5408			N/A
10/17/2018	CADMXN	3:30:00 PM	14.5093	14.5188			N/A
10/17/2018	CADNOK	9:30:00 AM	6.2945	6.2985			N/A
10/17/2018	CADNOK	11:30:00 AM	6.2899	6.2942			N/A
10/17/2018	CADNOK	1:30:00 PM	6.2948	6.2965			N/A
10/17/2018	CADNOK	3:30:00 PM	6.297	6.3014			N/A
10/17/2018	CADPLN	9:30:00 AM	2.8618	2.8637			N/A
10/17/2018	CADPLN	11:30:00 AM	2.8646	2.8663			N/A
10/17/2018	CADPLN	1:30:00 PM	2.8642	2.866			N/A
10/17/2018	CADPLN	3:30:00 PM	2.8682	2.87			N/A
10/17/2018	CADSEK	9:30:00 AM	6.8875	6.8909			N/A
10/17/2018	CADSEK	11:30:00 AM	6.8767	6.8786			N/A
10/17/2018	CADSEK	1:30:00 PM	6.8676	6.8686			N/A
10/17/2018	CADSEK	3:30:00 PM	6.8876	6.8904			N/A
10/17/2018	CADSGD	9:30:00 AM	1.0611	1.0614			N/A
10/17/2018	CADSGD	11:30:00 AM	1.0609	1.0612			N/A
10/17/2018	CADSGD	1:30:00 PM	1.061	1.0613			N/A
10/17/2018	CADSGD	3:30:00 PM	1.0603	1.0607			N/A
10/17/2018	CADZAR	9:30:00 AM	10.9429	10.9589			N/A
10/17/2018	CADZAR	11:30:00 AM	10.9834	11.0004			N/A
10/17/2018	CADZAR	1:30:00 PM	11.0022	11.0146			N/A
10/17/2018	CADZAR	3:30:00 PM	10.9719	10.9841			N/A
10/17/2018	CHFCZK	9:30:00 AM	22.526	22.541			N/A
10/17/2018	CHFCZK	11:30:00 AM	22.539	22.546			N/A
10/17/2018	CHFCZK	1:30:00 PM	22.525	22.541			N/A
10/17/2018	CHFCZK	3:30:00 PM	22.56	22.575			N/A
10/17/2018	CHFDKK	9:30:00 AM					N/A

10/17/2018	CHFDKK	11:30:00 AM	6.508	6.51			N/A
10/17/2018	CHFDKK	1:30:00 PM					N/A
10/17/2018	CHFDKK	3:30:00 PM	6.513	6.517			N/A
10/17/2018	CHFHKD	9:30:00 AM	7.9054	7.9093			N/A
10/17/2018	CHFHKD	11:30:00 AM	7.9075	7.9107			N/A
10/17/2018	CHFHKD	1:30:00 PM	7.9013	7.9047			N/A
10/17/2018	CHFHKD	3:30:00 PM	7.8929	7.8963			N/A
10/17/2018	CHFHUF	9:30:00 AM	280.81	281			N/A
10/17/2018	CHFHUF	11:30:00 AM	280.94	281.18			N/A
10/17/2018	CHFHUF	1:30:00 PM	280.97	281.32			N/A
10/17/2018	CHFHUF	3:30:00 PM	281.45	281.82			N/A
10/17/2018	CHFJPY	9:30:00 AM	113.13	113.197			N/A
10/17/2018	CHFJPY	11:30:00 AM	113.167	113.21			N/A
10/17/2018	CHFJPY	1:30:00 PM	113.013	113.067			N/A
10/17/2018	CHFJPY	3:30:00 PM	112.969	113.037			N/A
10/17/2018	CHFMXN	9:30:00 AM	18.9265	18.9407			N/A
10/17/2018	CHFMXN	11:30:00 AM	18.9543	18.9679			N/A
10/17/2018	CHFMXN	1:30:00 PM	18.9827	18.996			N/A
10/17/2018	CHFMXN	3:30:00 PM	18.9585	18.9739			N/A
10/17/2018	CHFNOK	9:30:00 AM	8.2247	8.2331			N/A
10/17/2018	CHFNOK	11:30:00 AM	8.2178	8.224			N/A
10/17/2018	CHFNOK	1:30:00 PM	8.2248	8.2295			N/A
10/17/2018	CHFNOK	3:30:00 PM	8.2295	8.2367			N/A
10/17/2018	CHFPLN	9:30:00 AM	3.7399	3.7429			N/A
10/17/2018	CHFPLN	11:30:00 AM	3.7425	3.7449			N/A
10/17/2018	CHFPLN	1:30:00 PM	3.7427	3.7452			N/A
10/17/2018	CHFPLN	3:30:00 PM	3.7485	3.7516			N/A
10/17/2018	CHFSEK	9:30:00 AM	9.0016	9.0059			N/A
10/17/2018	CHFSEK	11:30:00 AM	8.987	8.9881			N/A
10/17/2018	CHFSEK	1:30:00 PM	8.9748	8.9746			N/A
10/17/2018	CHFSEK	3:30:00 PM	9.003	9.0058			N/A
10/17/2018	CHFSGD	9:30:00 AM	1.3863	1.3868			N/A
10/17/2018	CHFSGD	11:30:00 AM	1.386	1.3864			N/A
10/17/2018	CHFSGD	1:30:00 PM	1.3862	1.3865			N/A
10/17/2018	CHFSGD	3:30:00 PM	1.3856	1.3859			N/A
10/17/2018	CHFZAR	9:30:00 AM	14.3063	14.3171			N/A
10/17/2018	CHFZAR	11:30:00 AM	14.3528	14.3672			N/A
10/17/2018	CHFZAR	1:30:00 PM	14.3786	14.3879			N/A
10/17/2018	CHFZAR	3:30:00 PM	14.3409	14.3506			N/A
10/17/2018	CZKJPY	9:30:00 AM	5.023	5.027			N/A
10/17/2018	CZKJPY	11:30:00 AM	5.023	5.026			N/A
10/17/2018	CZKJPY	1:30:00 PM	5.018	5.022			N/A
10/17/2018	CZKJPY	3:30:00 PM	5.009	5.013			N/A
10/17/2018	DKKJPY	9:30:00 AM	17.39	17.41			N/A
10/17/2018	DKKJPY	11:30:00 AM	17.4	17.41			N/A
10/17/2018	DKKJPY	1:30:00 PM					N/A
10/17/2018	DKKJPY	3:30:00 PM					N/A
10/17/2018	EURAUD	9:30:00 AM	1.61987	1.62018			N/A
10/17/2018	EURAUD	11:30:00 AM	1.6171	1.6169			N/A
10/17/2018	EURAUD	1:30:00 PM	1.62034	1.62065			N/A

10/17/2018	EURAUD	3:30:00 PM	1.61927	1.61954			N/A
10/17/2018	EURCAD	9:30:00 AM	1.49791	1.49859			N/A
10/17/2018	EURCAD	11:30:00 AM	1.49763	1.49807			N/A
10/17/2018	EURCAD	1:30:00 PM	1.49827	1.4989			N/A
10/17/2018	EURCAD	3:30:00 PM	1.49658	1.49716			N/A
10/17/2018	EURCHF	9:30:00 AM	1.14616	1.1463			N/A
10/17/2018	EURCHF	11:30:00 AM	1.14628	1.14606			N/A
10/17/2018	EURCHF	1:30:00 PM	1.1467	1.14671			N/A
10/17/2018	EURCHF	3:30:00 PM	1.14484	1.14548			N/A
10/17/2018	EURCZK	9:30:00 AM	25.806	25.844			N/A
10/17/2018	EURCZK	11:30:00 AM	25.825	25.851			N/A
10/17/2018	EURCZK	1:30:00 PM	25.82	25.854			N/A
10/17/2018	EURCZK	3:30:00 PM	25.825	25.865			N/A
10/17/2018	EURDKK	9:30:00 AM	7.46	7.4612			N/A
10/17/2018	EURDKK	11:30:00 AM	7.4596	7.4608			N/A
10/17/2018	EURDKK	1:30:00 PM	7.4597	7.4603			N/A
10/17/2018	EURDKK	3:30:00 PM	7.4593	7.4606			N/A
10/17/2018	EURGBP	9:30:00 AM	0.87712	0.87711			N/A
10/17/2018	EURGBP	11:30:00 AM	0.8808	0.87964	20	10	N/A
10/17/2018	EURGBP	1:30:00 PM	0.87959	0.87962			N/A
10/17/2018	EURGBP	3:30:00 PM	0.87935	0.87936			N/A
10/17/2018	EURHKD	9:30:00 AM	9.0601	9.0653			N/A
10/17/2018	EURHKD	11:30:00 AM	9.0631	9.0657			N/A
10/17/2018	EURHKD	1:30:00 PM	9.0596	9.0619			N/A
10/17/2018	EURHKD	3:30:00 PM	9.0374	9.0408			N/A
10/17/2018	EURHUF	9:30:00 AM	321.74	322.28			N/A
10/17/2018	EURHUF	11:30:00 AM	321.91	322.53			N/A
10/17/2018	EURHUF	1:30:00 PM	322.04	322.77			N/A
10/17/2018	EURHUF	3:30:00 PM					N/A
10/17/2018	EURJPY	9:30:00 AM	129.747	129.748			N/A
10/17/2018	EURJPY	11:30:00 AM	129.801	129.762			N/A
10/17/2018	EURJPY	1:30:00 PM	129.672	129.645			N/A
10/17/2018	EURJPY	3:30:00 PM	129.448	129.443			N/A
10/17/2018	EURMXN	9:30:00 AM	21.6953	21.7134			N/A
10/17/2018	EURMXN	11:30:00 AM	21.7265	21.7399			N/A
10/17/2018	EURMXN	1:30:00 PM	21.7692	21.7824			N/A
10/17/2018	EURMXN	3:30:00 PM	21.7114	21.7295			N/A
10/17/2018	EURNOK	9:30:00 AM	9.4259	9.4384			N/A
10/17/2018	EURNOK	11:30:00 AM	9.4168	9.4284			N/A
10/17/2018	EURNOK	1:30:00 PM	9.4293	9.4386			N/A
10/17/2018	EURNOK	3:30:00 PM	9.4219	9.4341			N/A
10/17/2018	EURNZD	9:30:00 AM	1.75438	1.75497			N/A
10/17/2018	EURNZD	11:30:00 AM	1.75405	1.75449			N/A
10/17/2018	EURNZD	1:30:00 PM	1.75805	1.75879			N/A
10/17/2018	EURNZD	3:30:00 PM	1.75558	1.7563			N/A
10/17/2018	EURPLN	9:30:00 AM	4.2875	4.2899			N/A
10/17/2018	EURPLN	11:30:00 AM	4.2897	4.293			N/A
10/17/2018	EURPLN	1:30:00 PM	4.2922	4.2944			N/A
10/17/2018	EURPLN	3:30:00 PM	4.2927	4.2959			N/A
10/17/2018	EURRUR	9:30:00 AM					N/A

10/17/2018	EURRUR	11:30:00 AM	75.344	75.76			N/A
10/17/2018	EURRUR	1:30:00 PM	75.435	75.851			N/A
10/17/2018	EURRUR	3:30:00 PM	75.337	75.772			N/A
10/17/2018	EURSEK	9:30:00 AM	10.3174	10.3218			N/A
10/17/2018	EURSEK	11:30:00 AM	10.298	10.3026			N/A
10/17/2018	EURSEK	1:30:00 PM	10.2899	10.2908			N/A
10/17/2018	EURSEK	3:30:00 PM	10.308	10.3128			N/A
10/17/2018	EURSGD	9:30:00 AM	1.5889	1.5897			N/A
10/17/2018	EURSGD	11:30:00 AM	1.5885	1.5891			N/A
10/17/2018	EURSGD	1:30:00 PM	1.5894	1.59			N/A
10/17/2018	EURSGD	3:30:00 PM	1.5865	1.5872			N/A
10/17/2018	EURUSD	9:30:00 AM	1.15618	1.15629			N/A
10/17/2018	EURUSD	11:30:00 AM	1.15647	1.15623			N/A
10/17/2018	EURUSD	1:30:00 PM	1.15604	1.15577			N/A
10/17/2018	EURUSD	3:30:00 PM	1.15327	1.15313			N/A
10/17/2018	EURZAR	9:30:00 AM	16.4004	16.4136			N/A
10/17/2018	EURZAR	11:30:00 AM	16.4551	16.4712			N/A
10/17/2018	EURZAR	1:30:00 PM	16.4897	16.501			N/A
10/17/2018	EURZAR	3:30:00 PM	16.4278	16.4378			N/A
10/17/2018	GBPAUD	9:30:00 AM	1.84665	1.84729			N/A
10/17/2018	GBPAUD	11:30:00 AM	1.83732	1.83581			N/A
10/17/2018	GBPAUD	1:30:00 PM	1.84189	1.8426			N/A
10/17/2018	GBPAUD	3:30:00 PM	1.84103	1.84181			N/A
10/17/2018	GBPCAD	9:30:00 AM	1.70737	1.70814			N/A
10/17/2018	GBPCAD	11:30:00 AM	1.70253	1.70041			N/A
10/17/2018	GBPCAD	1:30:00 PM	1.70292	1.70362			N/A
10/17/2018	GBPCAD	3:30:00 PM	1.70159	1.70201			N/A
10/17/2018	GBPCHF	9:30:00 AM	1.30649	1.30726			N/A
10/17/2018	GBPCHF	11:30:00 AM	1.30315	1.30184			N/A
10/17/2018	GBPCHF	1:30:00 PM	1.30323	1.3041			N/A
10/17/2018	GBPCHF	3:30:00 PM	1.30213	1.3025			N/A
10/17/2018	GBPCZK	9:30:00 AM	29.434	29.45			N/A
10/17/2018	GBPCZK	11:30:00 AM	29.354	29.334			N/A
10/17/2018	GBPCZK	1:30:00 PM	29.358	29.38			N/A
10/17/2018	GBPCZK	3:30:00 PM	29.373	29.391			N/A
10/17/2018	GBPDKK	9:30:00 AM	8.502	8.513			N/A
10/17/2018	GBPDKK	11:30:00 AM	8.477	8.477			N/A
10/17/2018	GBPDKK	1:30:00 PM	8.478	8.489			N/A
10/17/2018	GBPDKK	3:30:00 PM	8.48	8.491			N/A
10/17/2018	GBPHKD	9:30:00 AM	10.3288	10.3337			N/A
10/17/2018	GBPHKD	11:30:00 AM	10.3022	10.2909			N/A
10/17/2018	GBPHKD	1:30:00 PM	10.299	10.3023			N/A
10/17/2018	GBPHKD	3:30:00 PM	10.2753	10.281			N/A
10/17/2018	GBPHUF	9:30:00 AM	366.89	367.14			N/A
10/17/2018	GBPHUF	11:30:00 AM	365.84	365.86			N/A
10/17/2018	GBPHUF	1:30:00 PM	366.2	366.65			N/A
10/17/2018	GBPHUF	3:30:00 PM	366.44	366.89			N/A
10/17/2018	GBPJPY	9:30:00 AM	147.933	147.971			N/A
10/17/2018	GBPJPY	11:30:00 AM	147.481	147.372	200	200	N/A
10/17/2018	GBPJPY	1:30:00 PM	147.427	147.438			N/A

10/17/2018	GBPJPY	3:30:00 PM	147.21	147.241	200	200	N/A
10/17/2018	GBPMXN	9:30:00 AM	24.7326	24.7426			N/A
10/17/2018	GBPMXN	11:30:00 AM	24.6962	24.6729			N/A
10/17/2018	GBPMXN	1:30:00 PM	24.7452	24.7558			N/A
10/17/2018	GBPMXN	3:30:00 PM	24.6868	24.7			N/A
10/17/2018	GBPNOK	9:30:00 AM	10.7489	10.7593			N/A
10/17/2018	GBPNOK	11:30:00 AM	10.7087	10.7028			N/A
10/17/2018	GBPNOK	1:30:00 PM	10.7219	10.7291			N/A
10/17/2018	GBPNOK	3:30:00 PM	10.7163	10.7271			N/A
10/17/2018	GBPNZD	9:30:00 AM	2.00016	2.00085			N/A
10/17/2018	GBPNZD	11:30:00 AM	1.99327	1.99183			N/A
10/17/2018	GBPNZD	1:30:00 PM	1.99881	1.99948			N/A
10/17/2018	GBPNZD	3:30:00 PM	1.99666	1.9972			N/A
10/17/2018	GBPPLN	9:30:00 AM	4.8891	4.8902			N/A
10/17/2018	GBPPLN	11:30:00 AM	4.8784	4.8727			N/A
10/17/2018	GBPPLN	1:30:00 PM	4.8809	4.8816			N/A
10/17/2018	GBPPLN	3:30:00 PM	4.8828	4.8842			N/A
10/17/2018	GBPSEK	9:30:00 AM	11.7614	11.7698			N/A
10/17/2018	GBPSEK	11:30:00 AM	11.7064	11.6983			N/A
10/17/2018	GBPSEK	1:30:00 PM	11.6969	11.7006			N/A
10/17/2018	GBPSEK	3:30:00 PM	11.7212	11.7294			N/A
10/17/2018	GBPSGD	9:30:00 AM	1.8117	1.8124			N/A
10/17/2018	GBPSGD	11:30:00 AM	1.8052	1.8039			N/A
10/17/2018	GBPSGD	1:30:00 PM	1.8071	1.8076			N/A
10/17/2018	GBPSGD	3:30:00 PM	1.8043	1.8049			N/A
10/17/2018	GBPUSD	9:30:00 AM	1.31834	1.31828		20	N/A
10/17/2018	GBPUSD	11:30:00 AM	1.31491	1.31273		30	N/A
10/17/2018	GBPUSD	1:30:00 PM	1.31435	1.31413			N/A
10/17/2018	GBPUSD	3:30:00 PM	1.31151	1.31151			N/A
10/17/2018	GBPZAR	9:30:00 AM	18.6951	18.7162			N/A
10/17/2018	GBPZAR	11:30:00 AM	18.7063	18.7035			N/A
10/17/2018	GBPZAR	1:30:00 PM	18.7447	18.762			N/A
10/17/2018	GBPZAR	3:30:00 PM	18.6798	18.695			N/A
10/17/2018	GOLD	9:30:00 AM	1222.61	1222.72			N/A
10/17/2018	GOLD	11:30:00 AM	1224.22	1224.3			N/A
10/17/2018	GOLD	1:30:00 PM	1226.64	1226.55			N/A
10/17/2018	GOLD	3:30:00 PM	1225.92	1226.03			N/A
10/17/2018	HKDJPY	9:30:00 AM					N/A
10/17/2018	HKDJPY	11:30:00 AM					N/A
10/17/2018	HKDJPY	1:30:00 PM					N/A
10/17/2018	HKDJPY	3:30:00 PM					N/A
10/17/2018	HUFJPY	9:30:00 AM	0.403	0.4033			N/A
10/17/2018	HUFJPY	11:30:00 AM	0.4031	0.4034			N/A
10/17/2018	HUFJPY	1:30:00 PM	0.4025	0.4029			N/A
10/17/2018	HUFJPY	3:30:00 PM	0.4015	0.4018			N/A
10/17/2018	MXNJPY	9:30:00 AM					N/A
10/17/2018	MXNJPY	11:30:00 AM					N/A
10/17/2018	MXNJPY	1:30:00 PM					N/A
10/17/2018	MXNJPY	3:30:00 PM					N/A
10/17/2018	NOKJPY	9:30:00 AM					N/A

10/17/2018	NOKJPY	11:30:00 AM					N/A
10/17/2018	NOKJPY	1:30:00 PM	13.73	13.77			N/A
10/17/2018	NOKJPY	3:30:00 PM					N/A
10/17/2018	NZDCAD	9:30:00 AM	0.85332	0.85403			N/A
10/17/2018	NZDCAD	11:30:00 AM	0.85325	0.85384			N/A
10/17/2018	NZDCAD	1:30:00 PM	0.8517	0.85232			N/A
10/17/2018	NZDCAD	3:30:00 PM	0.85197	0.85257			N/A
10/17/2018	NZDCHF	9:30:00 AM	0.65292	0.6536			N/A
10/17/2018	NZDCHF	11:30:00 AM	0.6531	0.6537			N/A
10/17/2018	NZDCHF	1:30:00 PM	0.65177	0.65245			N/A
10/17/2018	NZDCHF	3:30:00 PM	0.65183	0.65249			N/A
10/17/2018	NZDCZK	9:30:00 AM	14.711	14.721			N/A
10/17/2018	NZDCZK	11:30:00 AM	14.721	14.73			N/A
10/17/2018	NZDCZK	1:30:00 PM	14.683	14.695			N/A
10/17/2018	NZDCZK	3:30:00 PM	14.707	14.719			N/A
10/17/2018	NZDDKK	9:30:00 AM					N/A
10/17/2018	NZDDKK	11:30:00 AM	4.251	4.254			N/A
10/17/2018	NZDDKK	1:30:00 PM	4.24	4.244			N/A
10/17/2018	NZDDKK	3:30:00 PM					N/A
10/17/2018	NZDHKD	9:30:00 AM	5.1622	5.1651			N/A
10/17/2018	NZDHKD	11:30:00 AM	5.1653	5.1679			N/A
10/17/2018	NZDHKD	1:30:00 PM	5.1513	5.1525			N/A
10/17/2018	NZDHKD	3:30:00 PM	5.1446	5.1474			N/A
10/17/2018	NZDHUF	9:30:00 AM	183.35	183.53			N/A
10/17/2018	NZDHUF	11:30:00 AM	183.47	183.69			N/A
10/17/2018	NZDHUF	1:30:00 PM	183.12	183.41			N/A
10/17/2018	NZDHUF	3:30:00 PM	183.46	183.76			N/A
10/17/2018	NZDJPY	9:30:00 AM	73.922	73.994			N/A
10/17/2018	NZDJPY	11:30:00 AM	73.958	74.024			N/A
10/17/2018	NZDJPY	1:30:00 PM	73.72	73.774			N/A
10/17/2018	NZDJPY	3:30:00 PM	73.695	73.757			N/A
10/17/2018	NZDMXN	9:30:00 AM	12.3614	12.3657			N/A
10/17/2018	NZDMXN	11:30:00 AM					N/A
10/17/2018	NZDMXN	1:30:00 PM	12.3772	12.3798			N/A
10/17/2018	NZDMXN	3:30:00 PM	12.3616	12.3665			N/A
10/17/2018	NZDNOK	9:30:00 AM	5.3713	5.3749			N/A
10/17/2018	NZDNOK	11:30:00 AM	5.3669	5.3708			N/A
10/17/2018	NZDNOK	1:30:00 PM	5.3611	5.3631			N/A
10/17/2018	NZDNOK	3:30:00 PM	5.365	5.3689			N/A
10/17/2018	NZDPLN	9:30:00 AM	2.4425	2.444			N/A
10/17/2018	NZDPLN	11:30:00 AM	2.4445	2.4459			N/A
10/17/2018	NZDPLN	1:30:00 PM	2.4399	2.4413			N/A
10/17/2018	NZDPLN	3:30:00 PM	2.4438	2.4452			N/A
10/17/2018	NZDSEK	9:30:00 AM	5.8753	5.8822			N/A
10/17/2018	NZDSEK	11:30:00 AM	5.8661	5.8714			N/A
10/17/2018	NZDSEK	1:30:00 PM	5.8468	5.8522			N/A
10/17/2018	NZDSEK	3:30:00 PM	5.8657	5.8722			N/A
10/17/2018	NZDSGD	9:30:00 AM	0.9056	0.9062			N/A
10/17/2018	NZDSGD	11:30:00 AM	0.9055	0.9062			N/A
10/17/2018	NZDSGD	1:30:00 PM	0.904	0.9045			N/A

10/17/2018	NZDSGD	3:30:00 PM	0.9036	0.9042			N/A
10/17/2018	NZDUSD	9:30:00 AM	0.65868	0.6588			N/A
10/17/2018	NZDUSD	11:30:00 AM	0.65887	0.65904			N/A
10/17/2018	NZDUSD	1:30:00 PM	0.65716	0.65713			N/A
10/17/2018	NZDUSD	3:30:00 PM	0.65646	0.65656			N/A
10/17/2018	NZDZAR	9:30:00 AM	9.3373	9.3527			N/A
10/17/2018	NZDZAR	11:30:00 AM	9.3713	9.388			N/A
10/17/2018	NZDZAR	1:30:00 PM	9.3688	9.3824			N/A
10/17/2018	NZDZAR	3:30:00 PM	9.3453	9.3591			N/A
10/17/2018	SEKJPY	9:30:00 AM					N/A
10/17/2018	SEKJPY	11:30:00 AM	12.6	12.62			N/A
10/17/2018	SEKJPY	1:30:00 PM	12.6	12.62			N/A
10/17/2018	SEKJPY	3:30:00 PM					N/A
10/17/2018	SGDJPY	9:30:00 AM	81.62	81.65			N/A
10/17/2018	SGDJPY	11:30:00 AM	81.67	81.7			N/A
10/17/2018	SGDJPY	1:30:00 PM	81.55	81.58			N/A
10/17/2018	SGDJPY	3:30:00 PM	81.56	81.58			N/A
10/17/2018	SILVER	9:30:00 AM	14.43	14.82			N/A
10/17/2018	SILVER	11:30:00 AM	14.48	14.86			N/A
10/17/2018	SILVER	1:30:00 PM	14.47	14.84			N/A
10/17/2018	SILVER	3:30:00 PM	14.47	14.86			N/A
10/17/2018	USDCAD	9:30:00 AM	1.29545	1.29538			N/A
10/17/2018	USDCAD	11:30:00 AM	1.29491	1.29478			N/A
10/17/2018	USDCAD	1:30:00 PM	1.29611	1.29609			N/A
10/17/2018	USDCAD	3:30:00 PM	1.29779	1.29754			N/A
10/17/2018	USDCHF	9:30:00 AM	0.99123	0.99137			N/A
10/17/2018	USDCHF	11:30:00 AM	0.99123	0.99115			N/A
10/17/2018	USDCHF	1:30:00 PM	0.99201	0.99196			N/A
10/17/2018	USDCHF	3:30:00 PM	0.99273	0.99332			N/A
10/17/2018	USDCZK	9:30:00 AM	22.325	22.348			N/A
10/17/2018	USDCZK	11:30:00 AM	22.334	22.349			N/A
10/17/2018	USDCZK	1:30:00 PM	22.343	22.361			N/A
10/17/2018	USDCZK	3:30:00 PM	22.396	22.417			N/A
10/17/2018	USDDKK	9:30:00 AM	6.4525	6.4579			N/A
10/17/2018	USDDKK	11:30:00 AM	6.4525	6.4561			N/A
10/17/2018	USDDKK	1:30:00 PM	6.4552	6.4586			N/A
10/17/2018	USDDKK	3:30:00 PM	6.47	6.4741			N/A
10/17/2018	USDHKD	9:30:00 AM	7.8376	7.8381			N/A
10/17/2018	USDHKD	11:30:00 AM	7.8382	7.8387			N/A
10/17/2018	USDHKD	1:30:00 PM					N/A
10/17/2018	USDHKD	3:30:00 PM	7.8377	7.8382			N/A
10/17/2018	USDHUF	9:30:00 AM	278.34	278.65			N/A
10/17/2018	USDHUF	11:30:00 AM	278.47	278.81			N/A
10/17/2018	USDHUF	1:30:00 PM	278.72	279.11			N/A
10/17/2018	USDHUF	3:30:00 PM	279.47	279.91			N/A
10/17/2018	USDJPY	9:30:00 AM	112.246	112.253			N/A
10/17/2018	USDJPY	11:30:00 AM	112.26	112.264			N/A
10/17/2018	USDJPY	1:30:00 PM	112.2	112.206			N/A
10/17/2018	USDJPY	3:30:00 PM	112.282	112.279			N/A
10/17/2018	USDMXN	9:30:00 AM	18.767	18.774			N/A

10/17/2018	USDMXN	11:30:00 AM	18.789	18.798			N/A
10/17/2018	USDMXN	1:30:00 PM	18.834	18.839			N/A
10/17/2018	USDMXN	3:30:00 PM	18.831	18.837			N/A
10/17/2018	USDNOK	9:30:00 AM	8.1538	8.1627			N/A
10/17/2018	USDNOK	11:30:00 AM	8.1455	8.1525			N/A
10/17/2018	USDNOK	1:30:00 PM	8.1604	8.1643			N/A
10/17/2018	USDNOK	3:30:00 PM	8.1719	8.1805			N/A
10/17/2018	USDPLN	9:30:00 AM	3.7085	3.7095			N/A
10/17/2018	USDPLN	11:30:00 AM	3.7107	3.7111			N/A
10/17/2018	USDPLN	1:30:00 PM	3.7142	3.7142			N/A
10/17/2018	USDPLN	3:30:00 PM	3.7232	3.724			N/A
10/17/2018	USDRUR	9:30:00 AM					N/A
10/17/2018	USDRUR	11:30:00 AM	65.218	65.602			N/A
10/17/2018	USDRUR	1:30:00 PM	65.317	65.697			N/A
10/17/2018	USDRUR	3:30:00 PM	65.4	65.789			N/A
10/17/2018	USDSEK	9:30:00 AM	8.9207	8.926			N/A
10/17/2018	USDSEK	11:30:00 AM	8.9047	8.9074			N/A
10/17/2018	USDSEK	1:30:00 PM	8.9015	8.901			N/A
10/17/2018	USDSEK	3:30:00 PM	8.9374	8.9405			N/A
10/17/2018	USDSGD	9:30:00 AM	1.3742	1.3746			N/A
10/17/2018	USDSGD	11:30:00 AM	1.3735	1.374			N/A
10/17/2018	USDSGD	1:30:00 PM	1.375	1.3754			N/A
10/17/2018	USDSGD	3:30:00 PM	1.3758	1.3762			N/A
10/17/2018	USDZAR	9:30:00 AM	14.1831	14.1961			N/A
10/17/2018	USDZAR	11:30:00 AM	14.2269	14.2455			N/A
10/17/2018	USDZAR	1:30:00 PM	14.267	14.2748			N/A
10/17/2018	USDZAR	3:30:00 PM	14.2456	14.2532			N/A
10/17/2018	XAUUSD	9:30:00 AM	1222.6	1222.71			N/A
10/17/2018	XAUUSD	11:30:00 AM	1224.21	1224.3			N/A
10/17/2018	XAUUSD	1:30:00 PM	1226.65	1226.55			N/A
10/17/2018	XAUUSD	3:30:00 PM	1225.91	1226.03			N/A
10/17/2018	ZARJPY	9:30:00 AM					N/A
10/17/2018	ZARJPY	11:30:00 AM					N/A
10/17/2018	ZARJPY	1:30:00 PM	7.8	7.84			N/A
10/17/2018	ZARJPY	3:30:00 PM					N/A
10/18/2018	#AA	9:30:00 AM					N/A
10/18/2018	#AA	11:30:00 AM					N/A
10/18/2018	#AA	1:30:00 PM					N/A
10/18/2018	#AA	3:30:00 PM					N/A
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10/18/2018	#AAPL	11:30:00 AM					N/A
10/18/2018	#AAPL	1:30:00 PM					N/A

10/18/2018	#AAPL	3:30:00 PM					N/A
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10/18/2018	#ADBE	11:30:00 AM					N/A
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10/18/2018	#AMD	11:30:00 AM					N/A
10/18/2018	#AMD	1:30:00 PM					N/A
10/18/2018	#AMD	3:30:00 PM					N/A
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10/18/2018	#C	11:30:00 AM					N/A
10/18/2018	#C	1:30:00 PM					N/A
10/18/2018	#C	3:30:00 PM					N/A
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10/18/2018	#CAT	1:30:00 PM					N/A
10/18/2018	#CAT	3:30:00 PM					N/A
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10/18/2018	#CHL	1:30:00 PM					N/A
10/18/2018	#CHL	3:30:00 PM					N/A
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10/18/2018	#CMCSA	11:30:00 AM					N/A
10/18/2018	#CMCSA	1:30:00 PM					N/A
10/18/2018	#CMCSA	3:30:00 PM					N/A
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10/18/2018	#CSCO	11:30:00 AM					N/A
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10/18/2018	#CVX	3:30:00 PM					N/A
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10/18/2018	#EBAY	3:30:00 PM					N/A
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10/18/2018	#ZNGA	3:30:00 PM					N/A
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10/18/2018	AUDCAD	11:30:00 AM	0.92889	0.92957			N/A
10/18/2018	AUDCAD	1:30:00 PM	0.9312	0.93185			N/A
10/18/2018	AUDCAD	3:30:00 PM	0.93081	0.93147			N/A
10/18/2018	AUDCHF	9:30:00 AM	0.70845	0.70908			N/A
10/18/2018	AUDCHF	11:30:00 AM	0.70793	0.7086			N/A
10/18/2018	AUDCHF	1:30:00 PM	0.70896	0.70965			N/A
10/18/2018	AUDCHF	3:30:00 PM	0.71057	0.71127			N/A
10/18/2018	AUDCZK	9:30:00 AM	16.009	16.024			N/A
10/18/2018	AUDCZK	11:30:00 AM	15.977	15.994			N/A
10/18/2018	AUDCZK	1:30:00 PM	16.019	16.036			N/A
10/18/2018	AUDCZK	3:30:00 PM	16.03	16.048			N/A
10/18/2018	AUDDKK	9:30:00 AM	4.6227	4.6271			N/A
10/18/2018	AUDDKK	11:30:00 AM	4.6173	4.6219			N/A
10/18/2018	AUDDKK	1:30:00 PM	4.6255	4.6299			N/A
10/18/2018	AUDDKK	3:30:00 PM	4.6274	4.6316			N/A
10/18/2018	AUDHKD	9:30:00 AM	5.5786	5.582			N/A
10/18/2018	AUDHKD	11:30:00 AM	5.5846	5.5886			N/A
10/18/2018	AUDHKD	1:30:00 PM	5.5992	5.6032			N/A
10/18/2018	AUDHKD	3:30:00 PM	5.5942	5.5982			N/A
10/18/2018	AUDHUF	9:30:00 AM	199.7	199.89			N/A
10/18/2018	AUDHUF	11:30:00 AM	199.22	199.43			N/A
10/18/2018	AUDHUF	1:30:00 PM	199.46	199.68			N/A
10/18/2018	AUDHUF	3:30:00 PM	199.89	200.13			N/A
10/18/2018	AUDJPY	9:30:00 AM	80.049	80.104			N/A
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10/18/2018	AUDJPY	3:30:00 PM	80.308	80.368			N/A
10/18/2018	AUDMXN	9:30:00 AM	13.4589	13.4659			N/A
10/18/2018	AUDMXN	11:30:00 AM	13.4439	13.4544			N/A
10/18/2018	AUDMXN	1:30:00 PM	13.4752	13.4843			N/A
10/18/2018	AUDMXN	3:30:00 PM	13.5249	13.5346			N/A
10/18/2018	AUDNOK	9:30:00 AM	5.8548	5.8605			N/A
10/18/2018	AUDNOK	11:30:00 AM	5.8507	5.8566			N/A
10/18/2018	AUDNOK	1:30:00 PM	5.8668	5.872			N/A
10/18/2018	AUDNOK	3:30:00 PM	5.8654	5.8696			N/A
10/18/2018	AUDNZD	9:30:00 AM	1.08642	1.08717			N/A
10/18/2018	AUDNZD	11:30:00 AM	1.08557	1.08644			N/A
10/18/2018	AUDNZD	1:30:00 PM	1.0866	1.08751			N/A
10/18/2018	AUDNZD	3:30:00 PM	1.08641	1.08724			N/A
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10/18/2018	AUDPLN	11:30:00 AM	2.6568	2.66			N/A
10/18/2018	AUDPLN	1:30:00 PM	2.6621	2.665			N/A
10/18/2018	AUDPLN	3:30:00 PM	2.6654	2.6682			N/A
10/18/2018	AUDSEK	9:30:00 AM	6.3972	6.4004			N/A
10/18/2018	AUDSEK	11:30:00 AM	6.3909	6.394			N/A
10/18/2018	AUDSEK	1:30:00 PM	6.3994	6.4023			N/A
10/18/2018	AUDSEK	3:30:00 PM	6.4102	6.412			N/A
10/18/2018	AUDSGD	9:30:00 AM	0.9815	0.9817			N/A

10/18/2018	AUDSGD	11:30:00 AM	0.9826	0.9829			N/A
10/18/2018	AUDSGD	1:30:00 PM	0.9844	0.9846			N/A
10/18/2018	AUDSGD	3:30:00 PM	0.9843	0.9846			N/A
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10/18/2018	AUDUSD	11:30:00 AM	0.71286	0.71295			N/A
10/18/2018	AUDUSD	1:30:00 PM	0.71485	0.71494			N/A
10/18/2018	AUDUSD	3:30:00 PM	0.71417	0.71425			N/A
10/18/2018	AUDZAR	9:30:00 AM	10.1711	10.1831			N/A
10/18/2018	AUDZAR	11:30:00 AM	10.1238	10.1371			N/A
10/18/2018	AUDZAR	1:30:00 PM	10.1523	10.1597			N/A
10/18/2018	AUDZAR	3:30:00 PM	10.1735	10.1841			N/A
10/18/2018	CADCHF	9:30:00 AM	0.76237	0.76309			N/A
10/18/2018	CADCHF	11:30:00 AM	0.76183	0.7625			N/A
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10/18/2018	CADCHF	3:30:00 PM	0.76306	0.76383			N/A
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10/18/2018	CADCZK	11:30:00 AM	17.198	17.214			N/A
10/18/2018	CADCZK	1:30:00 PM	17.201	17.218			N/A
10/18/2018	CADCZK	3:30:00 PM	17.22	17.238			N/A
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10/18/2018	CADDKK	1:30:00 PM	4.967	4.971			N/A
10/18/2018	CADDKK	3:30:00 PM					N/A
10/18/2018	CADHKD	9:30:00 AM	6.0046	6.0085			N/A
10/18/2018	CADHKD	11:30:00 AM	6.0112	6.0152			N/A
10/18/2018	CADHKD	1:30:00 PM	6.0128	6.0168			N/A
10/18/2018	CADHKD	3:30:00 PM	6.0099	6.0139			N/A
10/18/2018	CADHUF	9:30:00 AM	215.01	215.1			N/A
10/18/2018	CADHUF	11:30:00 AM	214.48	214.63			N/A
10/18/2018	CADHUF	1:30:00 PM	214.21	214.36			N/A
10/18/2018	CADHUF	3:30:00 PM					N/A
10/18/2018	CADJPY	9:30:00 AM	86.148	86.21			N/A
10/18/2018	CADJPY	11:30:00 AM	86.313	86.373			N/A
10/18/2018	CADJPY	1:30:00 PM	86.289	86.354			N/A
10/18/2018	CADJPY	3:30:00 PM	86.249	86.308			N/A
10/18/2018	CADMXN	9:30:00 AM	14.4877	14.497			N/A
10/18/2018	CADMXN	11:30:00 AM	14.4727	14.4841			N/A
10/18/2018	CADMXN	1:30:00 PM	14.4696	14.4817			N/A
10/18/2018	CADMXN	3:30:00 PM	14.5286	14.5388			N/A
10/18/2018	CADNOK	9:30:00 AM	6.3029	6.3078			N/A
10/18/2018	CADNOK	11:30:00 AM	6.2983	6.3033			N/A
10/18/2018	CADNOK	1:30:00 PM	6.3	6.3043			N/A
10/18/2018	CADNOK	3:30:00 PM	6.301	6.3045			N/A
10/18/2018	CADPLN	9:30:00 AM	2.8644	2.866			N/A
10/18/2018	CADPLN	11:30:00 AM	2.8594	2.8614			N/A
10/18/2018	CADPLN	1:30:00 PM	2.8587	2.8601			N/A
10/18/2018	CADPLN	3:30:00 PM	2.863	2.865			N/A
10/18/2018	CADSEK	9:30:00 AM	6.8843	6.8877			N/A
10/18/2018	CADSEK	11:30:00 AM	6.8774	6.8813			N/A
10/18/2018	CADSEK	1:30:00 PM	6.8709	6.8735			N/A

10/18/2018	CADSEK	3:30:00 PM	6.8842	6.8871			N/A
10/18/2018	CADSGD	9:30:00 AM	1.0563	1.0566			N/A
10/18/2018	CADSGD	11:30:00 AM	1.0575	1.0579			N/A
10/18/2018	CADSGD	1:30:00 PM	1.0569	1.0572			N/A
10/18/2018	CADSGD	3:30:00 PM					N/A
10/18/2018	CADZAR	9:30:00 AM	10.9424	10.9572			N/A
10/18/2018	CADZAR	11:30:00 AM	10.8908	10.9061			N/A
10/18/2018	CADZAR	1:30:00 PM	10.895	10.906			N/A
10/18/2018	CADZAR	3:30:00 PM	10.9209	10.9342			N/A
10/18/2018	CHFCZK	9:30:00 AM	22.6	22.613			N/A
10/18/2018	CHFCZK	11:30:00 AM	22.571	22.587			N/A
10/18/2018	CHFCZK	1:30:00 PM	22.596	22.612			N/A
10/18/2018	CHFCZK	3:30:00 PM	22.561	22.578			N/A
10/18/2018	CHFDKK	9:30:00 AM					N/A
10/18/2018	CHFDKK	11:30:00 AM					N/A
10/18/2018	CHFDKK	1:30:00 PM					N/A
10/18/2018	CHFDKK	3:30:00 PM					N/A
10/18/2018	CHFHKD	9:30:00 AM	7.8746	7.8785			N/A
10/18/2018	CHFHKD	11:30:00 AM	7.8887	7.8921			N/A
10/18/2018	CHFHKD	1:30:00 PM	7.898	7.901			N/A
10/18/2018	CHFHKD	3:30:00 PM	7.8731	7.877			N/A
10/18/2018	CHFHUF	9:30:00 AM	281.82	282.14			N/A
10/18/2018	CHFHUF	11:30:00 AM	281.39	281.68			N/A
10/18/2018	CHFHUF	1:30:00 PM	281.28	281.63			N/A
10/18/2018	CHFHUF	3:30:00 PM	281.24	281.63			N/A
10/18/2018	CHFJPY	9:30:00 AM	112.901	112.965			N/A
10/18/2018	CHFJPY	11:30:00 AM	113.214	113.255			N/A
10/18/2018	CHFJPY	1:30:00 PM	113.289	113.351			N/A
10/18/2018	CHFJPY	3:30:00 PM	112.931	112.984			N/A
10/18/2018	CHFMXN	9:30:00 AM	18.9932	19.0075			N/A
10/18/2018	CHFMXN	11:30:00 AM	18.9888	19.0056			N/A
10/18/2018	CHFMXN	1:30:00 PM	19.0031	19.0189			N/A
10/18/2018	CHFMXN	3:30:00 PM	19.0305	19.0451			N/A
10/18/2018	CHFNOK	9:30:00 AM	8.264	8.2716			N/A
10/18/2018	CHFNOK	11:30:00 AM	8.2643	8.2718			N/A
10/18/2018	CHFNOK	1:30:00 PM	8.2733	8.2812			N/A
10/18/2018	CHFNOK	3:30:00 PM	8.2543	8.262			N/A
10/18/2018	CHFPLN	9:30:00 AM	3.7557	3.7587			N/A
10/18/2018	CHFPLN	11:30:00 AM	3.7521	3.7554			N/A
10/18/2018	CHFPLN	1:30:00 PM	3.7539	3.7569			N/A
10/18/2018	CHFPLN	3:30:00 PM	3.7498	3.7529			N/A
10/18/2018	CHFSEK	9:30:00 AM	9.0283	9.032			N/A
10/18/2018	CHFSEK	11:30:00 AM	9.0266	9.0294			N/A
10/18/2018	CHFSEK	1:30:00 PM	9.025	9.0285			N/A
10/18/2018	CHFSEK	3:30:00 PM	9.0195	9.021			N/A
10/18/2018	CHFSGD	9:30:00 AM	1.3849	1.3854			N/A
10/18/2018	CHFSGD	11:30:00 AM	1.3875	1.3879			N/A
10/18/2018	CHFSGD	1:30:00 PM	1.3879	1.3884			N/A
10/18/2018	CHFSGD	3:30:00 PM	1.3846	1.3852			N/A
10/18/2018	CHFZAR	9:30:00 AM	14.3526	14.3644			N/A

10/18/2018	CHFZAR	11:30:00 AM	14.2952	14.3084			N/A
10/18/2018	CHFZAR	1:30:00 PM	14.3137	14.3202			N/A
10/18/2018	CHFZAR	3:30:00 PM	14.3096	14.3194			N/A
10/18/2018	CZKJPY	9:30:00 AM					N/A
10/18/2018	CZKJPY	11:30:00 AM	5.017	5.02			N/A
10/18/2018	CZKJPY	1:30:00 PM					N/A
10/18/2018	CZKJPY	3:30:00 PM	5.006	5.01			N/A
10/18/2018	DKKJPY	9:30:00 AM	17.32	17.34			N/A
10/18/2018	DKKJPY	11:30:00 AM					N/A
10/18/2018	DKKJPY	1:30:00 PM	17.37	17.39			N/A
10/18/2018	DKKJPY	3:30:00 PM					N/A
10/18/2018	EURAUD	9:30:00 AM	1.61311	1.61341			N/A
10/18/2018	EURAUD	11:30:00 AM	1.61494	1.61535			N/A
10/18/2018	EURAUD	1:30:00 PM	1.61219	1.61246			N/A
10/18/2018	EURAUD	3:30:00 PM	1.61151	1.6118			N/A
10/18/2018	EURCAD	9:30:00 AM	1.49895	1.49979			N/A
10/18/2018	EURCAD	11:30:00 AM	1.5008	1.50156			N/A
10/18/2018	EURCAD	1:30:00 PM	1.50184	1.50265			N/A
10/18/2018	EURCAD	3:30:00 PM	1.50062	1.50142			N/A
10/18/2018	EURCHF	9:30:00 AM	1.14329	1.14329			N/A
10/18/2018	EURCHF	11:30:00 AM	1.14382	1.14384			N/A
10/18/2018	EURCHF	1:30:00 PM	1.14352	1.14358			N/A
10/18/2018	EURCHF	3:30:00 PM	1.14526	1.14597			N/A
10/18/2018	EURCZK	9:30:00 AM	25.825	25.86			N/A
10/18/2018	EURCZK	11:30:00 AM	25.809	25.844			N/A
10/18/2018	EURCZK	1:30:00 PM	25.831	25.869			N/A
10/18/2018	EURCZK	3:30:00 PM	25.838	25.874			N/A
10/18/2018	EURDKK	9:30:00 AM	7.4602	7.4614			N/A
10/18/2018	EURDKK	11:30:00 AM	7.4595	7.4606			N/A
10/18/2018	EURDKK	1:30:00 PM	7.4601	7.4614			N/A
10/18/2018	EURDKK	3:30:00 PM	7.4595	7.4608			N/A
10/18/2018	EURGBP	9:30:00 AM	0.87792	0.87782			N/A
10/18/2018	EURGBP	11:30:00 AM	0.87856	0.87843			N/A
10/18/2018	EURGBP	1:30:00 PM	0.87772	0.87786			N/A
10/18/2018	EURGBP	3:30:00 PM	0.87835	0.87843			N/A
10/18/2018	EURHKD	9:30:00 AM	9.0013	9.0054			N/A
10/18/2018	EURHKD	11:30:00 AM	9.0216	9.0261			N/A
10/18/2018	EURHKD	1:30:00 PM	9.0308	9.0352			N/A
10/18/2018	EURHKD	3:30:00 PM	9.0181	9.0227			N/A
10/18/2018	EURHUF	9:30:00 AM	322.19	322.85			N/A
10/18/2018	EURHUF	11:30:00 AM	321.79	322.43			N/A
10/18/2018	EURHUF	1:30:00 PM	321.57	322.13			N/A
10/18/2018	EURHUF	3:30:00 PM	322.15	322.88			N/A
10/18/2018	EURJPY	9:30:00 AM	129.164	129.148			N/A
10/18/2018	EURJPY	11:30:00 AM	129.571	129.547			N/A
10/18/2018	EURJPY	1:30:00 PM	129.626	129.615			N/A
10/18/2018	EURJPY	3:30:00 PM	129.449	129.437			N/A
10/18/2018	EURMXN	9:30:00 AM	21.7167	21.7323			N/A
10/18/2018	EURMXN	11:30:00 AM	21.7208	21.7383			N/A
10/18/2018	EURMXN	1:30:00 PM	21.7313	21.7492			N/A

10/18/2018	EURMXN	3:30:00 PM	21.8033	21.8183			N/A
10/18/2018	EURNOK	9:30:00 AM	9.4464	9.4583			N/A
10/18/2018	EURNOK	11:30:00 AM	9.4512	9.4615			N/A
10/18/2018	EURNOK	1:30:00 PM	9.459	9.4713			N/A
10/18/2018	EURNOK	3:30:00 PM	9.4541	9.4644			N/A
10/18/2018	EURNZD	9:30:00 AM	1.75324	1.75391			N/A
10/18/2018	EURNZD	11:30:00 AM	1.75403	1.7547			N/A
10/18/2018	EURNZD	1:30:00 PM	1.75268	1.75326			N/A
10/18/2018	EURNZD	3:30:00 PM	1.75154	1.7521			N/A
10/18/2018	EURPLN	9:30:00 AM	4.2949	4.2972			N/A
10/18/2018	EURPLN	11:30:00 AM	4.2921	4.2951			N/A
10/18/2018	EURPLN	1:30:00 PM	4.293	4.2956			N/A
10/18/2018	EURPLN	3:30:00 PM	4.2961	4.2989			N/A
10/18/2018	EURRUR	9:30:00 AM					N/A
10/18/2018	EURRUR	11:30:00 AM	75.312	75.741			N/A
10/18/2018	EURRUR	1:30:00 PM	75.188	75.621			N/A
10/18/2018	EURRUR	3:30:00 PM	75.156	75.597			N/A
10/18/2018	EURSEK	9:30:00 AM	10.3212	10.326			N/A
10/18/2018	EURSEK	11:30:00 AM	10.3234	10.328			N/A
10/18/2018	EURSEK	1:30:00 PM	10.3189	10.3238			N/A
10/18/2018	EURSEK	3:30:00 PM	10.3318	10.3338			N/A
10/18/2018	EURSGD	9:30:00 AM	1.5832	1.584			N/A
10/18/2018	EURSGD	11:30:00 AM	1.5869	1.5876			N/A
10/18/2018	EURSGD	1:30:00 PM	1.5869	1.5878			N/A
10/18/2018	EURSGD	3:30:00 PM	1.5862	1.5869			N/A
10/18/2018	EURUSD	9:30:00 AM	1.14849	1.14845			N/A
10/18/2018	EURUSD	11:30:00 AM	1.15105	1.15104			N/A
10/18/2018	EURUSD	1:30:00 PM	1.15221	1.1522			N/A
10/18/2018	EURUSD	3:30:00 PM	1.15062	1.15063			N/A
10/18/2018	EURZAR	9:30:00 AM	16.409	16.425			N/A
10/18/2018	EURZAR	11:30:00 AM	16.3537	16.3689			N/A
10/18/2018	EURZAR	1:30:00 PM	16.3712	16.3778			N/A
10/18/2018	EURZAR	3:30:00 PM	16.3982	16.4102			N/A
10/18/2018	GBPAUD	9:30:00 AM	1.83733	1.83768			N/A
10/18/2018	GBPAUD	11:30:00 AM	1.83834	1.83853			N/A
10/18/2018	GBPAUD	1:30:00 PM	1.83633	1.83708			N/A
10/18/2018	GBPAUD	3:30:00 PM	1.83431	1.83502			N/A
10/18/2018	GBPCAD	9:30:00 AM	1.70731	1.70776			N/A
10/18/2018	GBPCAD	11:30:00 AM	1.70824	1.7086			N/A
10/18/2018	GBPCAD	1:30:00 PM	1.71054	1.7113			N/A
10/18/2018	GBPCAD	3:30:00 PM	1.70801	1.70876			N/A
10/18/2018	GBPCHF	9:30:00 AM	1.302	1.30271			N/A
10/18/2018	GBPCHF	11:30:00 AM	1.30182	1.30221			N/A
10/18/2018	GBPCHF	1:30:00 PM	1.30231	1.30317			N/A
10/18/2018	GBPCHF	3:30:00 PM	1.30404	1.30445			N/A
10/18/2018	GBPCZK	9:30:00 AM	29.427	29.442			N/A
10/18/2018	GBPCZK	11:30:00 AM	29.384	29.396			N/A
10/18/2018	GBPCZK	1:30:00 PM	29.429	29.452			N/A
10/18/2018	GBPCZK	3:30:00 PM	29.418	29.44			N/A
10/18/2018	GBPDKK	9:30:00 AM	8.494	8.505			N/A

10/18/2018	GBPDKK	11:30:00 AM	8.49	8.499			N/A
10/18/2018	GBPDKK	1:30:00 PM	8.495	8.507			N/A
10/18/2018	GBPDKK	3:30:00 PM	8.489	8.501			N/A
10/18/2018	GBPHKD	9:30:00 AM	10.2528	10.2563			N/A
10/18/2018	GBPHKD	11:30:00 AM	10.2691	10.2725			N/A
10/18/2018	GBPHKD	1:30:00 PM	10.2865	10.2913			N/A
10/18/2018	GBPHKD	3:30:00 PM	10.2666	10.2705			N/A
10/18/2018	GBPHUF	9:30:00 AM	366.96	367.37			N/A
10/18/2018	GBPHUF	11:30:00 AM	366.31	366.64			N/A
10/18/2018	GBPHUF	1:30:00 PM	366.35	366.8			N/A
10/18/2018	GBPHUF	3:30:00 PM	366.73	367.2			N/A
10/18/2018	GBPJPY	9:30:00 AM	147.143	147.152			N/A
10/18/2018	GBPJPY	11:30:00 AM	147.519	147.511		200	N/A
10/18/2018	GBPJPY	1:30:00 PM	147.676	147.709			N/A
10/18/2018	GBPJPY	3:30:00 PM	147.381	147.398	200	200	N/A
10/18/2018	GBPMXN	9:30:00 AM	24.7331	24.7463			N/A
10/18/2018	GBPMXN	11:30:00 AM	24.7221	24.7311			N/A
10/18/2018	GBPMXN	1:30:00 PM	24.7524	24.7667			N/A
10/18/2018	GBPMXN	3:30:00 PM	24.8184	24.83			N/A
10/18/2018	GBPNOK	9:30:00 AM	10.7633	10.7723			N/A
10/18/2018	GBPNOK	11:30:00 AM	10.7607	10.7699			N/A
10/18/2018	GBPNOK	1:30:00 PM	10.7772	10.789			N/A
10/18/2018	GBPNOK	3:30:00 PM	10.765	10.7744			N/A
10/18/2018	GBPNZD	9:30:00 AM	1.99729	1.9975			N/A
10/18/2018	GBPNZD	11:30:00 AM	1.99702	1.99716			N/A
10/18/2018	GBPNZD	1:30:00 PM	1.99673	1.99732			N/A
10/18/2018	GBPNZD	3:30:00 PM	1.99414	1.99458			N/A
10/18/2018	GBPPLN	9:30:00 AM	4.8926	4.8937			N/A
10/18/2018	GBPPLN	11:30:00 AM	4.8869	4.8876			N/A
10/18/2018	GBPPLN	1:30:00 PM	4.8915	4.893			N/A
10/18/2018	GBPPLN	3:30:00 PM	4.8917	4.8933			N/A
10/18/2018	GBPSEK	9:30:00 AM	11.7561	11.763			N/A
10/18/2018	GBPSEK	11:30:00 AM	11.7502	11.7571			N/A
10/18/2018	GBPSEK	1:30:00 PM	11.7534	11.7629			N/A
10/18/2018	GBPSEK	3:30:00 PM	11.7608	11.7664			N/A
10/18/2018	GBPSGD	9:30:00 AM	1.8034	1.8042			N/A
10/18/2018	GBPSGD	11:30:00 AM	1.8067	1.807			N/A
10/18/2018	GBPSGD	1:30:00 PM	1.8081	1.8088			N/A
10/18/2018	GBPSGD	3:30:00 PM	1.8058	1.8066			N/A
10/18/2018	GBPUSD	9:30:00 AM	1.30832	1.30819			N/A
10/18/2018	GBPUSD	11:30:00 AM	1.31054	1.31023			N/A
10/18/2018	GBPUSD	1:30:00 PM	1.31266	1.31266			N/A
10/18/2018	GBPUSD	3:30:00 PM	1.31005	1.30995			N/A
10/18/2018	GBPZAR	9:30:00 AM	18.6889	18.712			N/A
10/18/2018	GBPZAR	11:30:00 AM	18.6138	18.6341			N/A
10/18/2018	GBPZAR	1:30:00 PM	18.6476	18.6611			N/A
10/18/2018	GBPZAR	3:30:00 PM	18.6652	18.6859			N/A
10/18/2018	GOLD	9:30:00 AM	1220	1219.84			N/A
10/18/2018	GOLD	11:30:00 AM	1222.19	1222.36			N/A
10/18/2018	GOLD	1:30:00 PM	1222.99	1223.31			N/A

10/18/2018	GOLD	3:30:00 PM	1224.91	1224.63			N/A
10/18/2018	HKDJPY	9:30:00 AM					N/A
10/18/2018	HKDJPY	11:30:00 AM					N/A
10/18/2018	HKDJPY	1:30:00 PM					N/A
10/18/2018	HKDJPY	3:30:00 PM					N/A
10/18/2018	HUFJPY	9:30:00 AM	0.4009	0.4013			N/A
10/18/2018	HUFJPY	11:30:00 AM	0.4026	0.403			N/A
10/18/2018	HUFJPY	1:30:00 PM	0.4029	0.4033			N/A
10/18/2018	HUFJPY	3:30:00 PM	0.4018	0.4021			N/A
10/18/2018	MXNJPY	9:30:00 AM					N/A
10/18/2018	MXNJPY	11:30:00 AM					N/A
10/18/2018	MXNJPY	1:30:00 PM					N/A
10/18/2018	MXNJPY	3:30:00 PM					N/A
10/18/2018	NOKJPY	9:30:00 AM					N/A
10/18/2018	NOKJPY	11:30:00 AM					N/A
10/18/2018	NOKJPY	1:30:00 PM					N/A
10/18/2018	NOKJPY	3:30:00 PM					N/A
10/18/2018	NZDCAD	9:30:00 AM	0.85451	0.85524			N/A
10/18/2018	NZDCAD	11:30:00 AM	0.85513	0.8559			N/A
10/18/2018	NZDCAD	1:30:00 PM	0.8564	0.85708			N/A
10/18/2018	NZDCAD	3:30:00 PM	0.85628	0.85697			N/A
10/18/2018	NZDCHF	9:30:00 AM	0.65167	0.65233			N/A
10/18/2018	NZDCHF	11:30:00 AM	0.65169	0.65231			N/A
10/18/2018	NZDCHF	1:30:00 PM	0.65197	0.65263			N/A
10/18/2018	NZDCHF	3:30:00 PM	0.65362	0.65429			N/A
10/18/2018	NZDCZK	9:30:00 AM	14.73	14.741			N/A
10/18/2018	NZDCZK	11:30:00 AM	14.712	14.723			N/A
10/18/2018	NZDCZK	1:30:00 PM	14.736	14.747			N/A
10/18/2018	NZDCZK	3:30:00 PM	14.75	14.761			N/A
10/18/2018	NZDDKK	9:30:00 AM	4.253	4.257			N/A
10/18/2018	NZDDKK	11:30:00 AM	4.251	4.255			N/A
10/18/2018	NZDDKK	1:30:00 PM					N/A
10/18/2018	NZDDKK	3:30:00 PM	4.257	4.26			N/A
10/18/2018	NZDHKD	9:30:00 AM	5.1318	5.1346			N/A
10/18/2018	NZDHKD	11:30:00 AM	5.1409	5.1438			N/A
10/18/2018	NZDHKD	1:30:00 PM	5.1501	5.1528			N/A
10/18/2018	NZDHKD	3:30:00 PM	5.1468	5.1496			N/A
10/18/2018	NZDHUF	9:30:00 AM	183.68	183.92			N/A
10/18/2018	NZDHUF	11:30:00 AM	183.36	183.64			N/A
10/18/2018	NZDHUF	1:30:00 PM	183.41	183.68			N/A
10/18/2018	NZDHUF	3:30:00 PM	183.86	184.13			N/A
10/18/2018	NZDJPY	9:30:00 AM	73.638	73.694			N/A
10/18/2018	NZDJPY	11:30:00 AM	73.827	73.893			N/A
10/18/2018	NZDJPY	1:30:00 PM	73.919	73.986			N/A
10/18/2018	NZDJPY	3:30:00 PM	73.869	73.935			N/A
10/18/2018	NZDMXN	9:30:00 AM	12.383	12.3852			N/A
10/18/2018	NZDMXN	11:30:00 AM	12.3781	12.3838			N/A
10/18/2018	NZDMXN	1:30:00 PM	12.3942	12.3995			N/A
10/18/2018	NZDMXN	3:30:00 PM	12.443	12.4483			N/A
10/18/2018	NZDNOK	9:30:00 AM	5.3869	5.3901			N/A

10/18/2018	NZDNOK	11:30:00 AM	5.3867	5.3903			N/A
10/18/2018	NZDNOK	1:30:00 PM	5.3961	5.3994			N/A
10/18/2018	NZDNOK	3:30:00 PM	5.396	5.3981			N/A
10/18/2018	NZDPLN	9:30:00 AM	2.4481	2.4488			N/A
10/18/2018	NZDPLN	11:30:00 AM	2.4455	2.447			N/A
10/18/2018	NZDPLN	1:30:00 PM	2.4486	2.4499			N/A
10/18/2018	NZDPLN	3:30:00 PM	2.4517	2.4531			N/A
10/18/2018	NZDSEK	9:30:00 AM	5.8816	5.8882			N/A
10/18/2018	NZDSEK	11:30:00 AM	5.8801	5.8866			N/A
10/18/2018	NZDSEK	1:30:00 PM	5.883	5.8888			N/A
10/18/2018	NZDSEK	3:30:00 PM	5.8925	5.8993			N/A
10/18/2018	NZDSGD	9:30:00 AM	0.903	0.9035			N/A
10/18/2018	NZDSGD	11:30:00 AM	0.9046	0.9053			N/A
10/18/2018	NZDSGD	1:30:00 PM	0.9054	0.906			N/A
10/18/2018	NZDSGD	3:30:00 PM	0.9053	0.9059			N/A
10/18/2018	NZDUSD	9:30:00 AM	0.65474	0.6548			N/A
10/18/2018	NZDUSD	11:30:00 AM	0.65586	0.65601			N/A
10/18/2018	NZDUSD	1:30:00 PM	0.65705	0.65713			N/A
10/18/2018	NZDUSD	3:30:00 PM	0.65656	0.65668			N/A
10/18/2018	NZDZAR	9:30:00 AM	9.3504	9.3653			N/A
10/18/2018	NZDZAR	11:30:00 AM	9.3133	9.3283			N/A
10/18/2018	NZDZAR	1:30:00 PM	9.3293	9.3418			N/A
10/18/2018	NZDZAR	3:30:00 PM	9.3523	9.3641			N/A
10/18/2018	SEKJPY	9:30:00 AM	12.52	12.54			N/A
10/18/2018	SEKJPY	11:30:00 AM					N/A
10/18/2018	SEKJPY	1:30:00 PM					N/A
10/18/2018	SEKJPY	3:30:00 PM					N/A
10/18/2018	SGDJPY	9:30:00 AM	81.54	81.57			N/A
10/18/2018	SGDJPY	11:30:00 AM	81.61	81.64			N/A
10/18/2018	SGDJPY	1:30:00 PM	81.65	81.67			N/A
10/18/2018	SGDJPY	3:30:00 PM	81.58	81.6			N/A
10/18/2018	SILVER	9:30:00 AM	14.31	14.69			N/A
10/18/2018	SILVER	11:30:00 AM	14.3	14.68			N/A
10/18/2018	SILVER	1:30:00 PM	14.29	14.67			N/A
10/18/2018	SILVER	3:30:00 PM	14.36	14.74			N/A
10/18/2018	USDCAD	9:30:00 AM	1.30521	1.30523			N/A
10/18/2018	USDCAD	11:30:00 AM	1.30384	1.30393			N/A
10/18/2018	USDCAD	1:30:00 PM	1.3035	1.30355			N/A
10/18/2018	USDCAD	3:30:00 PM	1.30418	1.30422			N/A
10/18/2018	USDCHF	9:30:00 AM	0.99544	0.99554			N/A
10/18/2018	USDCHF	11:30:00 AM	0.99367	0.99368			N/A
10/18/2018	USDCHF	1:30:00 PM	0.99236	0.9925			N/A
10/18/2018	USDCHF	3:30:00 PM	0.99526	0.99597			N/A
10/18/2018	USDCZK	9:30:00 AM	22.491	22.512			N/A
10/18/2018	USDCZK	11:30:00 AM	22.424	22.445			N/A
10/18/2018	USDCZK	1:30:00 PM	22.421	22.442			N/A
10/18/2018	USDCZK	3:30:00 PM	22.458	22.48			N/A
10/18/2018	USDDKK	9:30:00 AM	6.4967	6.5012			N/A
10/18/2018	USDDKK	11:30:00 AM	6.482	6.4868			N/A
10/18/2018	USDDKK	1:30:00 PM	6.4757	6.4805			N/A

10/18/2018	USDDKK	3:30:00 PM	6.4842	6.4891			N/A
10/18/2018	USDHKD	9:30:00 AM	7.839	7.8392			N/A
10/18/2018	USDHKD	11:30:00 AM	7.8392	7.8396			N/A
10/18/2018	USDHKD	1:30:00 PM	7.8392	7.8396			N/A
10/18/2018	USDHKD	3:30:00 PM					N/A
10/18/2018	USDHUF	9:30:00 AM	280.55	280.98			N/A
10/18/2018	USDHUF	11:30:00 AM	279.55	279.99			N/A
10/18/2018	USDHUF	1:30:00 PM	279.13	279.56			N/A
10/18/2018	USDHUF	3:30:00 PM	280.01	280.46			N/A
10/18/2018	USDJPY	9:30:00 AM	112.488	112.499			N/A
10/18/2018	USDJPY	11:30:00 AM	112.592	112.59			N/A
10/18/2018	USDJPY	1:30:00 PM	112.534	112.53			N/A
10/18/2018	USDJPY	3:30:00 PM	112.537	112.531			N/A
10/18/2018	USDMXN	9:30:00 AM	18.913	18.918			N/A
10/18/2018	USDMXN	11:30:00 AM	18.875	18.881			N/A
10/18/2018	USDMXN	1:30:00 PM	18.865	18.872			N/A
10/18/2018	USDMXN	3:30:00 PM	18.953	18.957			N/A
10/18/2018	USDNOK	9:30:00 AM	8.2272	8.2353			N/A
10/18/2018	USDNOK	11:30:00 AM	8.2128	8.2214			N/A
10/18/2018	USDNOK	1:30:00 PM	8.2115	8.2197			N/A
10/18/2018	USDNOK	3:30:00 PM	8.2182	8.2248			N/A
10/18/2018	USDPLN	9:30:00 AM	3.7399	3.7406			N/A
10/18/2018	USDPLN	11:30:00 AM	3.7292	3.7305			N/A
10/18/2018	USDPLN	1:30:00 PM	3.7265	3.7271			N/A
10/18/2018	USDPLN	3:30:00 PM	3.7342	3.7351			N/A
10/18/2018	USDRUR	9:30:00 AM					N/A
10/18/2018	USDRUR	11:30:00 AM	65.513	65.899			N/A
10/18/2018	USDRUR	1:30:00 PM	65.34	65.724			N/A
10/18/2018	USDRUR	3:30:00 PM	65.405	65.793			N/A
10/18/2018	USDSEK	9:30:00 AM	8.985	8.9894			N/A
10/18/2018	USDSEK	11:30:00 AM	8.9668	8.9712			N/A
10/18/2018	USDSEK	1:30:00 PM	8.954	8.958			N/A
10/18/2018	USDSEK	3:30:00 PM	8.9772	8.9801			N/A
10/18/2018	USDSGD	9:30:00 AM	1.3786	1.3789			N/A
10/18/2018	USDSGD	11:30:00 AM	1.3787	1.379			N/A
10/18/2018	USDSGD	1:30:00 PM	1.3774	1.3778			N/A
10/18/2018	USDSGD	3:30:00 PM	1.3786	1.379			N/A
10/18/2018	USDZAR	9:30:00 AM	14.2886	14.3027			N/A
10/18/2018	USDZAR	11:30:00 AM	14.2067	14.2217			N/A
10/18/2018	USDZAR	1:30:00 PM	14.2063	14.2147			N/A
10/18/2018	USDZAR	3:30:00 PM	14.251	14.2605			N/A
10/18/2018	XAUUSD	9:30:00 AM	1219.99	1219.84			N/A
10/18/2018	XAUUSD	11:30:00 AM	1222.2	1222.37			N/A
10/18/2018	XAUUSD	1:30:00 PM	1222.99	1223.31			N/A
10/18/2018	XAUUSD	3:30:00 PM	1224.91	1224.64			N/A
10/18/2018	ZARJPY	9:30:00 AM					N/A
10/18/2018	ZARJPY	11:30:00 AM					N/A
10/18/2018	ZARJPY	1:30:00 PM					N/A
10/18/2018	ZARJPY	3:30:00 PM	7.84	7.88			N/A
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10/19/2018	AUDCAD	1:30:00 PM	0.92874	0.92928			N/A
10/19/2018	AUDCAD	3:30:00 PM	0.93589	0.93138			N/A
10/19/2018	AUDCHF	9:30:00 AM	0.70916	0.70971			N/A
10/19/2018	AUDCHF	11:30:00 AM	0.70839	0.7089			N/A
10/19/2018	AUDCHF	1:30:00 PM	0.70872	0.70931			N/A
10/19/2018	AUDCHF	3:30:00 PM	0.71061	0.71109			N/A
10/19/2018	AUDCZK	9:30:00 AM	16.065	16.081			N/A
10/19/2018	AUDCZK	11:30:00 AM	16.052	16.067			N/A
10/19/2018	AUDCZK	1:30:00 PM	16.057	16.074			N/A
10/19/2018	AUDCZK	3:30:00 PM	16.094	16.103			N/A
10/19/2018	AUDDKK	9:30:00 AM	4.6323	4.6369			N/A
10/19/2018	AUDDKK	11:30:00 AM	4.6322	4.6365			N/A
10/19/2018	AUDDKK	1:30:00 PM	4.6323	4.6369			N/A
10/19/2018	AUDDKK	3:30:00 PM	4.6441	4.6471			N/A
10/19/2018	AUDHKD	9:30:00 AM	5.5773	5.5808			N/A
10/19/2018	AUDHKD	11:30:00 AM	5.5707	5.5743			N/A
10/19/2018	AUDHKD	1:30:00 PM	5.5819	5.5858			N/A
10/19/2018	AUDHKD	3:30:00 PM	5.5936	5.596			N/A
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10/19/2018	AUDHUF	3:30:00 PM	201.09	201.24			N/A
10/19/2018	AUDJPY	9:30:00 AM	80.012	80.065			N/A
10/19/2018	AUDJPY	11:30:00 AM	79.883	79.943			N/A
10/19/2018	AUDJPY	1:30:00 PM	80.056	80.127			N/A
10/19/2018	AUDJPY	3:30:00 PM	80.222	80.267			N/A
10/19/2018	AUDMXN	9:30:00 AM	13.5815	13.5915			N/A
10/19/2018	AUDMXN	11:30:00 AM	13.5918	13.6015			N/A
10/19/2018	AUDMXN	1:30:00 PM	13.5948	13.6039			N/A
10/19/2018	AUDMXN	3:30:00 PM	13.6359	13.6421			N/A
10/19/2018	AUDNOK	9:30:00 AM	5.8752	5.88			N/A
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10/19/2018	AUDNZD	3:30:00 PM	1.08135	1.08192			N/A
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10/19/2018	AUDPLN	1:30:00 PM	2.6709	2.6739			N/A
10/19/2018	AUDPLN	3:30:00 PM	2.6781	2.6799			N/A
10/19/2018	AUDSEK	9:30:00 AM	6.4242	6.4269			N/A
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10/19/2018	AUDSEK	3:30:00 PM	6.4353	6.4382			N/A
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10/19/2018	AUDZAR	9:30:00 AM	10.2297	10.2311			N/A
10/19/2018	AUDZAR	11:30:00 AM	10.2375	10.2508			N/A
10/19/2018	AUDZAR	1:30:00 PM	10.2181	10.2331			N/A
10/19/2018	AUDZAR	3:30:00 PM	10.241	10.2491			N/A
10/19/2018	CADCHF	9:30:00 AM	0.76333	0.76393			N/A
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10/19/2018	CADCZK	11:30:00 AM	17.297	17.312			N/A
10/19/2018	CADCZK	1:30:00 PM	17.291	17.304			N/A
10/19/2018	CADCZK	3:30:00 PM	17.292	17.212			N/A
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10/19/2018	CADDKK	1:30:00 PM					N/A
10/19/2018	CADDKK	3:30:00 PM	4.989	4.966			N/A
10/19/2018	CADHKD	9:30:00 AM	6.0049	6.0089			N/A
10/19/2018	CADHKD	11:30:00 AM	6.003	6.0065			N/A
10/19/2018	CADHKD	1:30:00 PM	6.0107	6.0147			N/A
10/19/2018	CADHKD	3:30:00 PM	6.0107	5.9804			N/A
10/19/2018	CADHUF	9:30:00 AM	215.98	216.12			N/A
10/19/2018	CADHUF	11:30:00 AM	216.48	216.64			N/A
10/19/2018	CADHUF	1:30:00 PM	216.12	216.22			N/A
10/19/2018	CADHUF	3:30:00 PM	216.11	215.06			N/A
10/19/2018	CADJPY	9:30:00 AM	86.132	86.187			N/A
10/19/2018	CADJPY	11:30:00 AM	86.063	86.12			N/A
10/19/2018	CADJPY	1:30:00 PM	86.186	86.241			N/A
10/19/2018	CADJPY	3:30:00 PM	86.177	85.756		2000	N/A
10/19/2018	CADMXN	9:30:00 AM	14.6239	14.6363			N/A

10/19/2018	CADMXN	11:30:00 AM	14.6472	14.659			N/A
10/19/2018	CADMXN	1:30:00 PM	14.64	14.6477			N/A
10/19/2018	CADMXN	3:30:00 PM	14.6496	14.5824			N/A
10/19/2018	CADNOK	9:30:00 AM	6.3264	6.3302			N/A
10/19/2018	CADNOK	11:30:00 AM	6.3341	6.3381			N/A
10/19/2018	CADNOK	1:30:00 PM	6.315	6.3199			N/A
10/19/2018	CADNOK	3:30:00 PM	6.3224	6.292			N/A
10/19/2018	CADPLN	9:30:00 AM	2.8752	2.877			N/A
10/19/2018	CADPLN	11:30:00 AM	2.8803	2.8823			N/A
10/19/2018	CADPLN	1:30:00 PM	2.8758	2.8776			N/A
10/19/2018	CADPLN	3:30:00 PM	2.8768	2.8632			N/A
10/19/2018	CADSEK	9:30:00 AM	6.9151	6.9185			N/A
10/19/2018	CADSEK	11:30:00 AM	6.9287	6.9325			N/A
10/19/2018	CADSEK	1:30:00 PM	6.9149	6.9185			N/A
10/19/2018	CADSEK	3:30:00 PM	6.9136	6.8779			N/A
10/19/2018	CADSGD	9:30:00 AM	1.0558	1.0562			N/A
10/19/2018	CADSGD	11:30:00 AM					N/A
10/19/2018	CADSGD	1:30:00 PM	1.0568	1.0572			N/A
10/19/2018	CADSGD	3:30:00 PM	1.0562	1.0513			N/A
10/19/2018	CADZAR	9:30:00 AM	11.0063	11.0151			N/A
10/19/2018	CADZAR	11:30:00 AM	11.0234	11.0401			N/A
10/19/2018	CADZAR	1:30:00 PM	10.9971	11.0137			N/A
10/19/2018	CADZAR	3:30:00 PM	10.9923	10.9523			N/A
10/19/2018	CHFCZK	9:30:00 AM	22.657	22.67			N/A
10/19/2018	CHFCZK	11:30:00 AM	22.664	22.676			N/A
10/19/2018	CHFCZK	1:30:00 PM	22.659	22.674			N/A
10/19/2018	CHFCZK	3:30:00 PM	22.648	22.663			N/A
10/19/2018	CHFDKK	9:30:00 AM	6.532	6.536			N/A
10/19/2018	CHFDKK	11:30:00 AM	6.539	6.542			N/A
10/19/2018	CHFDKK	1:30:00 PM	6.536	6.54			N/A
10/19/2018	CHFDKK	3:30:00 PM					N/A
10/19/2018	CHFHKD	9:30:00 AM	7.8652	7.8672			N/A
10/19/2018	CHFHKD	11:30:00 AM	7.8661	7.8672			N/A
10/19/2018	CHFHKD	1:30:00 PM	7.8772	7.8801			N/A
10/19/2018	CHFHKD	3:30:00 PM	7.8714	7.8753			N/A
10/19/2018	CHFHUF	9:30:00 AM	282.76	283.11			N/A
10/19/2018	CHFHUF	11:30:00 AM	283.55	283.89			N/A
10/19/2018	CHFHUF	1:30:00 PM	283.13	283.46			N/A
10/19/2018	CHFHUF	3:30:00 PM	282.92	283.28			N/A
10/19/2018	CHFJPY	9:30:00 AM	112.745	112.807			N/A
10/19/2018	CHFJPY	11:30:00 AM	112.714	112.735			N/A
10/19/2018	CHFJPY	1:30:00 PM	112.892	112.943			N/A
10/19/2018	CHFJPY	3:30:00 PM	112.805	112.875			N/A
10/19/2018	CHFMXN	9:30:00 AM	19.152	19.1636			N/A
10/19/2018	CHFMXN	11:30:00 AM	19.1882	19.201			N/A
10/19/2018	CHFMXN	1:30:00 PM	19.1802	19.1939			N/A
10/19/2018	CHFMXN	3:30:00 PM	19.1859	19.201			N/A
10/19/2018	CHFNOK	9:30:00 AM	8.2841	8.2899			N/A
10/19/2018	CHFNOK	11:30:00 AM	8.2978	8.3049			N/A
10/19/2018	CHFNOK	1:30:00 PM	8.276	8.2821			N/A

10/19/2018	CHFNOK	3:30:00 PM	8.2792	8.2871			N/A
10/19/2018	CHFPLN	9:30:00 AM	3.7655	3.7687			N/A
10/19/2018	CHFPLN	11:30:00 AM	3.7729	3.7758			N/A
10/19/2018	CHFPLN	1:30:00 PM	3.7679	3.7707			N/A
10/19/2018	CHFPLN	3:30:00 PM	3.7673	3.7699			N/A
10/19/2018	CHFSEK	9:30:00 AM	9.0578	9.0608			N/A
10/19/2018	CHFSEK	11:30:00 AM	9.0795	9.0815			N/A
10/19/2018	CHFSEK	1:30:00 PM	9.0644	9.0661			N/A
10/19/2018	CHFSEK	3:30:00 PM	9.0553	9.0591			N/A
10/19/2018	CHFSGD	9:30:00 AM	1.3828	1.383			N/A
10/19/2018	CHFSGD	11:30:00 AM	1.3838	1.384			N/A
10/19/2018	CHFSGD	1:30:00 PM	1.3847	1.385			N/A
10/19/2018	CHFSGD	3:30:00 PM	1.383	1.3835			N/A
10/19/2018	CHFZAR	9:30:00 AM	14.4202	14.4199			N/A
10/19/2018	CHFZAR	11:30:00 AM	14.4472	14.4572			N/A
10/19/2018	CHFZAR	1:30:00 PM	14.4145	14.4275			N/A
10/19/2018	CHFZAR	3:30:00 PM	14.407	14.4125			N/A
10/19/2018	CZKJPY	9:30:00 AM	4.978	4.982			N/A
10/19/2018	CZKJPY	11:30:00 AM	4.974	4.978			N/A
10/19/2018	CZKJPY	1:30:00 PM	4.983	4.987			N/A
10/19/2018	CZKJPY	3:30:00 PM					N/A
10/19/2018	DKKJPY	9:30:00 AM					N/A
10/19/2018	DKKJPY	11:30:00 AM	17.25	17.26			N/A
10/19/2018	DKKJPY	1:30:00 PM					N/A
10/19/2018	DKKJPY	3:30:00 PM	17.28	17.29			N/A
10/19/2018	EURAUD	9:30:00 AM	1.60963	1.60996			N/A
10/19/2018	EURAUD	11:30:00 AM	1.60975	1.60997			N/A
10/19/2018	EURAUD	1:30:00 PM	1.60959	1.60999			N/A
10/19/2018	EURAUD	3:30:00 PM	1.60625	1.606			N/A
10/19/2018	EURCAD	9:30:00 AM	1.49549	1.4963			N/A
10/19/2018	EURCAD	11:30:00 AM	1.49435	1.49502			N/A
10/19/2018	EURCAD	1:30:00 PM	1.4956	1.49614			N/A
10/19/2018	EURCAD	3:30:00 PM	1.50342	1.49591			N/A
10/19/2018	EURCHF	9:30:00 AM	1.14204	1.14191			N/A
10/19/2018	EURCHF	11:30:00 AM	1.14077	1.14065			N/A
10/19/2018	EURCHF	1:30:00 PM	1.14131	1.14114			N/A
10/19/2018	EURCHF	3:30:00 PM	1.14135	1.14194			N/A
10/19/2018	EURCZK	9:30:00 AM	25.857	25.896			N/A
10/19/2018	EURCZK	11:30:00 AM	25.842	25.874			N/A
10/19/2018	EURCZK	1:30:00 PM	25.85	25.888			N/A
10/19/2018	EURCZK	3:30:00 PM	25.846	25.879			N/A
10/19/2018	EURDKK	9:30:00 AM	7.4599	7.4612			N/A
10/19/2018	EURDKK	11:30:00 AM	7.4591	7.4604			N/A
10/19/2018	EURDKK	1:30:00 PM	7.4596	7.4608			N/A
10/19/2018	EURDKK	3:30:00 PM	7.4595	7.4606			N/A
10/19/2018	EURGBP	9:30:00 AM	0.87934	0.87933			N/A
10/19/2018	EURGBP	11:30:00 AM	0.87818	0.87802			N/A
10/19/2018	EURGBP	1:30:00 PM	0.87927	0.8794			N/A
10/19/2018	EURGBP	3:30:00 PM	0.88029	0.88019			N/A
10/19/2018	EURHKD	9:30:00 AM	8.9797	8.984			N/A

10/19/2018	EURHKD	11:30:00 AM	8.9704	8.9731			N/A
10/19/2018	EURHKD	1:30:00 PM	8.9881	8.9929			N/A
10/19/2018	EURHKD	3:30:00 PM	8.9856	8.9889			N/A
10/19/2018	EURHUF	9:30:00 AM	322.89	323.59			N/A
10/19/2018	EURHUF	11:30:00 AM	323.34	324.08			N/A
10/19/2018	EURHUF	1:30:00 PM	323.02	323.68			N/A
10/19/2018	EURHUF	3:30:00 PM	322.92	323.64			N/A
10/19/2018	EURJPY	9:30:00 AM	128.841	128.817			N/A
10/19/2018	EURJPY	11:30:00 AM	128.633	128.605			N/A
10/19/2018	EURJPY	1:30:00 PM	128.904	128.906			N/A
10/19/2018	EURJPY	3:30:00 PM	128.869	128.85			N/A
10/19/2018	EURMXN	9:30:00 AM	21.8714	21.8871			N/A
10/19/2018	EURMXN	11:30:00 AM	21.8869	21.9045			N/A
10/19/2018	EURMXN	1:30:00 PM	21.8891	21.9071			N/A
10/19/2018	EURMXN	3:30:00 PM	21.9065	21.9212			N/A
10/19/2018	EURNOK	9:30:00 AM	9.4581	9.4692			N/A
10/19/2018	EURNOK	11:30:00 AM	9.4628	9.4756			N/A
10/19/2018	EURNOK	1:30:00 PM	9.4421	9.4548			N/A
10/19/2018	EURNOK	3:30:00 PM	9.4501	9.4619			N/A
10/19/2018	EURNZD	9:30:00 AM	1.74433	1.74485			N/A
10/19/2018	EURNZD	11:30:00 AM	1.74121	1.74157			N/A
10/19/2018	EURNZD	1:30:00 PM	1.74016	1.74095			N/A
10/19/2018	EURNZD	3:30:00 PM	1.7378	1.73755			N/A
10/19/2018	EURPLN	9:30:00 AM	4.3001	4.3035			N/A
10/19/2018	EURPLN	11:30:00 AM	4.3035	4.3061			N/A
10/19/2018	EURPLN	1:30:00 PM	4.3003	4.303			N/A
10/19/2018	EURPLN	3:30:00 PM	4.3009	4.3037			N/A
10/19/2018	EURRUR	9:30:00 AM					N/A
10/19/2018	EURRUR	11:30:00 AM	74.992	75.42			N/A
10/19/2018	EURRUR	1:30:00 PM	74.942	75.376			N/A
10/19/2018	EURRUR	3:30:00 PM	74.939	75.35			N/A
10/19/2018	EURSEK	9:30:00 AM	10.343	10.3475			N/A
10/19/2018	EURSEK	11:30:00 AM	10.3552	10.3599			N/A
10/19/2018	EURSEK	1:30:00 PM	10.3423	10.347			N/A
10/19/2018	EURSEK	3:30:00 PM	10.3367	10.3405			N/A
10/19/2018	EURSGD	9:30:00 AM	1.5788	1.5796			N/A
10/19/2018	EURSGD	11:30:00 AM	1.5783	1.5788			N/A
10/19/2018	EURSGD	1:30:00 PM	1.5801	1.5809			N/A
10/19/2018	EURSGD	3:30:00 PM	1.5788	1.5795			N/A
10/19/2018	EURUSD	9:30:00 AM	1.14543	1.14545			N/A
10/19/2018	EURUSD	11:30:00 AM	1.14445	1.14426			N/A
10/19/2018	EURUSD	1:30:00 PM	1.14671	1.14678			N/A
10/19/2018	EURUSD	3:30:00 PM	1.14646	1.14631			N/A
10/19/2018	EURZAR	9:30:00 AM	16.4694	16.4704			N/A
10/19/2018	EURZAR	11:30:00 AM	16.4816	16.4988			N/A
10/19/2018	EURZAR	1:30:00 PM	16.4493	16.4693			N/A
10/19/2018	EURZAR	3:30:00 PM	16.4482	16.4581			N/A
10/19/2018	GBPAUD	9:30:00 AM	1.83044	1.83067			N/A
10/19/2018	GBPAUD	11:30:00 AM	1.83327	1.83317			N/A
10/19/2018	GBPAUD	1:30:00 PM	1.8302	1.83095			N/A

10/19/2018	GBPAUD	3:30:00 PM	1.82434	1.82471			N/A
10/19/2018	GBPCAD	9:30:00 AM	1.70051	1.70086			N/A
10/19/2018	GBPCAD	11:30:00 AM	1.70166	1.70181			N/A
10/19/2018	GBPCAD	1:30:00 PM	1.70033	1.70099			N/A
10/19/2018	GBPCAD	3:30:00 PM	1.7078	1.69917			N/A
10/19/2018	GBPCHF	9:30:00 AM	1.29845	1.29904			N/A
10/19/2018	GBPCHF	11:30:00 AM	1.29891	1.29916			N/A
10/19/2018	GBPCHF	1:30:00 PM	1.29756	1.29811			N/A
10/19/2018	GBPCHF	3:30:00 PM	1.29686	1.29703			N/A
10/19/2018	GBPCZK	9:30:00 AM	29.417	29.433			N/A
10/19/2018	GBPCZK	11:30:00 AM	29.436	29.448			N/A
10/19/2018	GBPCZK	1:30:00 PM	29.402	29.422			N/A
10/19/2018	GBPCZK	3:30:00 PM	29.367	29.382			N/A
10/19/2018	GBPDKK	9:30:00 AM	8.48	8.491			N/A
10/19/2018	GBPDKK	11:30:00 AM	8.493	8.502			N/A
10/19/2018	GBPDKK	1:30:00 PM	8.48	8.491			N/A
10/19/2018	GBPDKK	3:30:00 PM	8.472	8.482			N/A
10/19/2018	GBPHKD	9:30:00 AM	10.2116	10.2141			N/A
10/19/2018	GBPHKD	11:30:00 AM	10.2154	10.2163			N/A
10/19/2018	GBPHKD	1:30:00 PM	10.2206	10.2259			N/A
10/19/2018	GBPHKD	3:30:00 PM	10.2065	10.2104			N/A
10/19/2018	GBPHUF	9:30:00 AM	367.15	367.53			N/A
10/19/2018	GBPHUF	11:30:00 AM	368.29	368.64			N/A
10/19/2018	GBPHUF	1:30:00 PM	367.35	367.79			N/A
10/19/2018	GBPHUF	3:30:00 PM	366.86	367.27			N/A
10/19/2018	GBPJPY	9:30:00 AM	146.528	146.539			N/A
10/19/2018	GBPJPY	11:30:00 AM	146.521	146.475			N/A
10/19/2018	GBPJPY	1:30:00 PM	146.595	146.635			N/A
10/19/2018	GBPJPY	3:30:00 PM	146.412	146.417			N/A
10/19/2018	GBPMXN	9:30:00 AM	24.8695	24.8765			N/A
10/19/2018	GBPMXN	11:30:00 AM	24.9251	24.9312			N/A
10/19/2018	GBPMXN	1:30:00 PM	24.8887	24.9033			N/A
10/19/2018	GBPMXN	3:30:00 PM	24.8827	24.892			N/A
10/19/2018	GBPNOK	9:30:00 AM	10.7577	10.7666			N/A
10/19/2018	GBPNOK	11:30:00 AM	10.7797	10.7877			N/A
10/19/2018	GBPNOK	1:30:00 PM	10.7391	10.7506			N/A
10/19/2018	GBPNOK	3:30:00 PM	10.7377	10.7476			N/A
10/19/2018	GBPNZD	9:30:00 AM	1.98383	1.9838			N/A
10/19/2018	GBPNZD	11:30:00 AM	1.9833	1.98285			N/A
10/19/2018	GBPNZD	1:30:00 PM	1.97895	1.97972			N/A
10/19/2018	GBPNZD	3:30:00 PM	1.97408	1.97394			N/A
10/19/2018	GBPPLN	9:30:00 AM	4.8915	4.8925			N/A
10/19/2018	GBPPLN	11:30:00 AM	4.9027	4.903			N/A
10/19/2018	GBPPLN	1:30:00 PM	4.8913	4.8928			N/A
10/19/2018	GBPPLN	3:30:00 PM	4.8875	4.8879			N/A
10/19/2018	GBPSEK	9:30:00 AM	11.7603	11.7682			N/A
10/19/2018	GBPSEK	11:30:00 AM	11.7921	11.7978			N/A
10/19/2018	GBPSEK	1:30:00 PM	11.7596	11.7689			N/A
10/19/2018	GBPSEK	3:30:00 PM	11.7418	11.7493			N/A
10/19/2018	GBPSGD	9:30:00 AM	1.7958	1.7961			N/A

10/19/2018	GBPSGD	11:30:00 AM	1.7976	1.7977			N/A
10/19/2018	GBPSGD	1:30:00 PM	1.7971	1.7978			N/A
10/19/2018	GBPSGD	3:30:00 PM	1.7937	1.7943			N/A
10/19/2018	GBPUSD	9:30:00 AM	1.30283	1.30246			N/A
10/19/2018	GBPUSD	11:30:00 AM	1.30356	1.30293			N/A
10/19/2018	GBPUSD	1:30:00 PM	1.30414	1.30419			N/A
10/19/2018	GBPUSD	3:30:00 PM	1.30253	1.30229	700	20000	N/A
10/19/2018	GBPZAR	9:30:00 AM	18.728	18.7323			N/A
10/19/2018	GBPZAR	11:30:00 AM	18.7675	18.79			N/A
10/19/2018	GBPZAR	1:30:00 PM	18.7039	18.7329			N/A
10/19/2018	GBPZAR	3:30:00 PM	18.6853	18.7027			N/A
10/19/2018	GOLD	9:30:00 AM	1227.89	1227.87			N/A
10/19/2018	GOLD	11:30:00 AM	1226.14	1226.22			N/A
10/19/2018	GOLD	1:30:00 PM	1228.14	1228.34			N/A
10/19/2018	GOLD	3:30:00 PM	1229.69	1229.73			N/A
10/19/2018	HKDJPY	9:30:00 AM	14.34	14.36			N/A
10/19/2018	HKDJPY	11:30:00 AM					N/A
10/19/2018	HKDJPY	1:30:00 PM					N/A
10/19/2018	HKDJPY	3:30:00 PM					N/A
10/19/2018	HUFJPY	9:30:00 AM	0.399	0.3993			N/A
10/19/2018	HUFJPY	11:30:00 AM					N/A
10/19/2018	HUFJPY	1:30:00 PM	0.3988	0.3991			N/A
10/19/2018	HUFJPY	3:30:00 PM	0.3991	0.3994			N/A
10/19/2018	MXNJPY	9:30:00 AM					N/A
10/19/2018	MXNJPY	11:30:00 AM					N/A
10/19/2018	MXNJPY	1:30:00 PM					N/A
10/19/2018	MXNJPY	3:30:00 PM					N/A
10/19/2018	NOKJPY	9:30:00 AM	13.6	13.64			N/A
10/19/2018	NOKJPY	11:30:00 AM	13.58	13.62			N/A
10/19/2018	NOKJPY	1:30:00 PM					N/A
10/19/2018	NOKJPY	3:30:00 PM					N/A
10/19/2018	NZDCAD	9:30:00 AM	0.85696	0.85755			N/A
10/19/2018	NZDCAD	11:30:00 AM	0.85782	0.85845			N/A
10/19/2018	NZDCAD	1:30:00 PM	0.85893	0.85954			N/A
10/19/2018	NZDCAD	3:30:00 PM	0.86515	0.86084			N/A
10/19/2018	NZDCHF	9:30:00 AM	0.65433	0.6549			N/A
10/19/2018	NZDCHF	11:30:00 AM	0.65482	0.65533			N/A
10/19/2018	NZDCHF	1:30:00 PM	0.6554	0.65597			N/A
10/19/2018	NZDCHF	3:30:00 PM	0.65679	0.65715			N/A
10/19/2018	NZDCZK	9:30:00 AM	14.827	14.836			N/A
10/19/2018	NZDCZK	11:30:00 AM	14.842	14.852			N/A
10/19/2018	NZDCZK	1:30:00 PM	14.854	14.864			N/A
10/19/2018	NZDCZK	3:30:00 PM	14.879	14.882			N/A
10/19/2018	NZDDKK	9:30:00 AM					N/A
10/19/2018	NZDDKK	11:30:00 AM	4.282	4.285			N/A
10/19/2018	NZDDKK	1:30:00 PM					N/A
10/19/2018	NZDDKK	3:30:00 PM	4.293	4.295			N/A
10/19/2018	NZDHKD	9:30:00 AM	5.1466	5.1488			N/A
10/19/2018	NZDHKD	11:30:00 AM	5.1502	5.1523			N/A
10/19/2018	NZDHKD	1:30:00 PM	5.1628	5.1657			N/A

10/19/2018	NZDHKD	3:30:00 PM	5.1703	5.1711			N/A
10/19/2018	NZDHUF	9:30:00 AM	185.03	185.29			N/A
10/19/2018	NZDHUF	11:30:00 AM	185.66	185.93			N/A
10/19/2018	NZDHUF	1:30:00 PM	185.56	185.82			N/A
10/19/2018	NZDHUF	3:30:00 PM	185.84	186.02			N/A
10/19/2018	NZDJPY	9:30:00 AM	73.827	73.886			N/A
10/19/2018	NZDJPY	11:30:00 AM	73.85	73.907			N/A
10/19/2018	NZDJPY	1:30:00 PM	74.039	74.103			N/A
10/19/2018	NZDJPY	3:30:00 PM	74.152	74.184			N/A
10/19/2018	NZDMXN	9:30:00 AM	12.5341	12.5386			N/A
10/19/2018	NZDMXN	11:30:00 AM	12.5667	12.5712			N/A
10/19/2018	NZDMXN	1:30:00 PM	12.5738	12.5795			N/A
10/19/2018	NZDMXN	3:30:00 PM	12.6066	12.6057			N/A
10/19/2018	NZDNOK	9:30:00 AM	5.422	5.4246			N/A
10/19/2018	NZDNOK	11:30:00 AM	5.4339	5.4368			N/A
10/19/2018	NZDNOK	1:30:00 PM	5.4243	5.428			N/A
10/19/2018	NZDNOK	3:30:00 PM	5.4392	5.4404			N/A
10/19/2018	NZDPLN	9:30:00 AM	2.4643	2.4656			N/A
10/19/2018	NZDPLN	11:30:00 AM	2.4706	2.4719			N/A
10/19/2018	NZDPLN	1:30:00 PM	2.4705	2.4718			N/A
10/19/2018	NZDPLN	3:30:00 PM	2.4748	2.4753			N/A
10/19/2018	NZDSEK	9:30:00 AM	5.9249	5.9303			N/A
10/19/2018	NZDSEK	11:30:00 AM	5.9427	5.9478			N/A
10/19/2018	NZDSEK	1:30:00 PM	5.9375	5.9442			N/A
10/19/2018	NZDSEK	3:30:00 PM	5.9455	5.9497			N/A
10/19/2018	NZDSGD	9:30:00 AM	0.905	0.9057			N/A
10/19/2018	NZDSGD	11:30:00 AM	0.9063	0.9068			N/A
10/19/2018	NZDSGD	1:30:00 PM	0.908	0.9086			N/A
10/19/2018	NZDSGD	3:30:00 PM	0.9087	0.9091			N/A
10/19/2018	NZDUSD	9:30:00 AM	0.65638	0.65639			N/A
10/19/2018	NZDUSD	11:30:00 AM	0.65698	0.65701			N/A
10/19/2018	NZDUSD	1:30:00 PM	0.65859	0.6587			N/A
10/19/2018	NZDUSD	3:30:00 PM	0.65968	0.65942			N/A
10/19/2018	NZDZAR	9:30:00 AM	9.4319	9.4399			N/A
10/19/2018	NZDZAR	11:30:00 AM	9.456	9.4714			N/A
10/19/2018	NZDZAR	1:30:00 PM	9.4439	9.4617			N/A
10/19/2018	NZDZAR	3:30:00 PM	9.4591	9.4684			N/A
10/19/2018	SEKJPY	9:30:00 AM					N/A
10/19/2018	SEKJPY	11:30:00 AM					N/A
10/19/2018	SEKJPY	1:30:00 PM	12.46	12.48			N/A
10/19/2018	SEKJPY	3:30:00 PM					N/A
10/19/2018	SGDJPY	9:30:00 AM	81.55	81.58			N/A
10/19/2018	SGDJPY	11:30:00 AM	81.47	81.5			N/A
10/19/2018	SGDJPY	1:30:00 PM	81.54	81.57			N/A
10/19/2018	SGDJPY	3:30:00 PM	81.59	81.61			N/A
10/19/2018	SILVER	9:30:00 AM	14.42	14.81			N/A
10/19/2018	SILVER	11:30:00 AM	14.39	14.77			N/A
10/19/2018	SILVER	1:30:00 PM	14.42	14.81			N/A
10/19/2018	SILVER	3:30:00 PM	14.48	14.87			N/A
10/19/2018	USDCAD	9:30:00 AM	1.30553	1.30564			N/A

10/19/2018	USDCAD	11:30:00 AM	1.30577	1.30577			N/A
10/19/2018	USDCAD	1:30:00 PM	1.30412	1.30402			N/A
10/19/2018	USDCAD	3:30:00 PM	1.31148	1.30406		10	N/A
10/19/2018	USDCHF	9:30:00 AM	0.99699	0.9969			N/A
10/19/2018	USDCHF	11:30:00 AM	0.99689	0.9966			N/A
10/19/2018	USDCHF	1:30:00 PM	0.9952	0.99515			N/A
10/19/2018	USDCHF	3:30:00 PM	0.99551	0.99613			N/A
10/19/2018	USDCZK	9:30:00 AM	22.581	22.604			N/A
10/19/2018	USDCZK	11:30:00 AM	22.587	22.604			N/A
10/19/2018	USDCZK	1:30:00 PM	22.544	22.567			N/A
10/19/2018	USDCZK	3:30:00 PM	22.548	22.568			N/A
10/19/2018	USDDKK	9:30:00 AM	6.5136	6.5184			N/A
10/19/2018	USDDKK	11:30:00 AM	6.5199	6.5237			N/A
10/19/2018	USDDKK	1:30:00 PM	6.5057	6.5109			N/A
10/19/2018	USDDKK	3:30:00 PM	6.5086	6.5127			N/A
10/19/2018	USDHKD	9:30:00 AM	7.841	7.8415			N/A
10/19/2018	USDHKD	11:30:00 AM	7.8395	7.84			N/A
10/19/2018	USDHKD	1:30:00 PM	7.8394	7.8399			N/A
10/19/2018	USDHKD	3:30:00 PM					N/A
10/19/2018	USDHUF	9:30:00 AM	281.93	282.36			N/A
10/19/2018	USDHUF	11:30:00 AM	282.62	283.03			N/A
10/19/2018	USDHUF	1:30:00 PM	281.72	282.16			N/A
10/19/2018	USDHUF	3:30:00 PM	281.72	282.15			N/A
10/19/2018	USDJPY	9:30:00 AM	112.507	112.495			N/A
10/19/2018	USDJPY	11:30:00 AM	112.428	112.434			N/A
10/19/2018	USDJPY	1:30:00 PM	112.436	112.45			N/A
10/19/2018	USDJPY	3:30:00 PM	112.433	112.443			N/A
10/19/2018	USDMXN	9:30:00 AM	19.099	19.104			N/A
10/19/2018	USDMXN	11:30:00 AM	19.13	19.135			N/A
10/19/2018	USDMXN	1:30:00 PM	19.092	19.099			N/A
10/19/2018	USDMXN	3:30:00 PM	19.112	19.117			N/A
10/19/2018	USDNOK	9:30:00 AM	8.2589	8.2672			N/A
10/19/2018	USDNOK	11:30:00 AM	8.2719	8.279			N/A
10/19/2018	USDNOK	1:30:00 PM	8.2355	8.2444			N/A
10/19/2018	USDNOK	3:30:00 PM	8.2449	8.2535			N/A
10/19/2018	USDPLN	9:30:00 AM	3.7548	3.7561			N/A
10/19/2018	USDPLN	11:30:00 AM	3.7616	3.7622			N/A
10/19/2018	USDPLN	1:30:00 PM	3.7503	3.7516			N/A
10/19/2018	USDPLN	3:30:00 PM	3.7524	3.7532			N/A
10/19/2018	USDRUR	9:30:00 AM					N/A
10/19/2018	USDRUR	11:30:00 AM	65.597	65.991			N/A
10/19/2018	USDRUR	1:30:00 PM	65.428	65.811			N/A
10/19/2018	USDRUR	3:30:00 PM	65.45	65.822			N/A
10/19/2018	USDSEK	9:30:00 AM	9.0276	9.0316			N/A
10/19/2018	USDSEK	11:30:00 AM	9.0482	9.0504			N/A
10/19/2018	USDSEK	1:30:00 PM	9.017	9.0214			N/A
10/19/2018	USDSEK	3:30:00 PM	9.0151	9.0188			N/A
10/19/2018	USDSGD	9:30:00 AM	1.3784	1.3788			N/A
10/19/2018	USDSGD	11:30:00 AM	1.3791	1.3794			N/A
10/19/2018	USDSGD	1:30:00 PM	1.378	1.3784			N/A

10/19/2018	USDSGD	3:30:00 PM	1.3773	1.3776			N/A
10/19/2018	USDZAR	9:30:00 AM	14.3771	14.3811			N/A
10/19/2018	USDZAR	11:30:00 AM	14.401	14.4174			N/A
10/19/2018	USDZAR	1:30:00 PM	14.3435	14.3616			N/A
10/19/2018	USDZAR	3:30:00 PM	14.3487	14.3594			N/A
10/19/2018	XAUUSD	9:30:00 AM	1227.93	1227.87			N/A
10/19/2018	XAUUSD	11:30:00 AM	1226.14	1226.22			N/A
10/19/2018	XAUUSD	1:30:00 PM	1228.14	1228.34			N/A
10/19/2018	XAUUSD	3:30:00 PM	1229.69	1229.73			N/A
10/19/2018	ZARJPY	9:30:00 AM	7.77	7.81			N/A
10/19/2018	ZARJPY	11:30:00 AM					N/A
10/19/2018	ZARJPY	1:30:00 PM					N/A
10/19/2018	ZARJPY	3:30:00 PM	7.78	7.82			N/A
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10/22/2018	AUDCAD	1:30:00 PM	0.92949	0.93013			N/A
10/22/2018	AUDCAD	3:30:00 PM	0.93031	0.93077			N/A
10/22/2018	AUDCHF	9:30:00 AM	0.70887	0.70938			N/A
10/22/2018	AUDCHF	11:30:00 AM	0.70799	0.70848			N/A
10/22/2018	AUDCHF	1:30:00 PM	0.70877	0.70943			N/A
10/22/2018	AUDCHF	3:30:00 PM	0.70761	0.70826			N/A
10/22/2018	AUDCZK	9:30:00 AM	15.949	15.964			N/A
10/22/2018	AUDCZK	11:30:00 AM	15.932	15.947			N/A
10/22/2018	AUDCZK	1:30:00 PM	15.942	15.959			N/A
10/22/2018	AUDCZK	3:30:00 PM	15.964	15.977			N/A
10/22/2018	AUDDKK	9:30:00 AM	4.6041	4.6084			N/A
10/22/2018	AUDDKK	11:30:00 AM	4.5994	4.6038			N/A
10/22/2018	AUDDKK	1:30:00 PM	4.6056	4.6102			N/A
10/22/2018	AUDDKK	3:30:00 PM	4.6091	4.6126			N/A
10/22/2018	AUDHKD	9:30:00 AM	5.5815	5.5841			N/A
10/22/2018	AUDHKD	11:30:00 AM	5.5672	5.5711			N/A
10/22/2018	AUDHKD	1:30:00 PM	5.5679	5.5718			N/A
10/22/2018	AUDHKD	3:30:00 PM	5.5665	5.5695			N/A
10/22/2018	AUDHUF	9:30:00 AM	199.14	199.37			N/A

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10/22/2018	AUDHUF	3:30:00 PM	199.51	199.72			N/A
10/22/2018	AUDJPY	9:30:00 AM	80.237	80.304			N/A
10/22/2018	AUDJPY	11:30:00 AM	80.095	80.137			N/A
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10/22/2018	AUDJPY	3:30:00 PM	80.094	80.156			N/A
10/22/2018	AUDMXN	9:30:00 AM	13.7054	13.7108			N/A
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10/22/2018	AUDMXN	1:30:00 PM	13.6874	13.6969			N/A
10/22/2018	AUDMXN	3:30:00 PM	13.7385	13.7392			N/A
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10/22/2018	AUDNOK	11:30:00 AM	5.8355	5.8405			N/A
10/22/2018	AUDNOK	1:30:00 PM	5.8453	5.8512			N/A
10/22/2018	AUDNOK	3:30:00 PM	5.8477	5.8527			N/A
10/22/2018	AUDNZD	9:30:00 AM	1.07928	1.07991			N/A
10/22/2018	AUDNZD	11:30:00 AM	1.07861	1.07921			N/A
10/22/2018	AUDNZD	1:30:00 PM	1.07932	1.08002			N/A
10/22/2018	AUDNZD	3:30:00 PM	1.08042	1.0811			N/A
10/22/2018	AUDPLN	9:30:00 AM	2.6497	2.6527			N/A
10/22/2018	AUDPLN	11:30:00 AM	2.6489	2.6512			N/A
10/22/2018	AUDPLN	1:30:00 PM	2.6493	2.6522			N/A
10/22/2018	AUDPLN	3:30:00 PM	2.6507	2.6531			N/A
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10/22/2018	AUDSEK	11:30:00 AM	6.374	6.3775			N/A
10/22/2018	AUDSEK	1:30:00 PM	6.377	6.3798			N/A
10/22/2018	AUDSEK	3:30:00 PM	6.3843	6.3862			N/A
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10/22/2018	AUDSGD	1:30:00 PM	0.9793	0.9797			N/A
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10/22/2018	AUDUSD	3:30:00 PM	0.71058	0.71048			N/A
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10/22/2018	AUDZAR	1:30:00 PM	10.1523	10.16			N/A
10/22/2018	AUDZAR	3:30:00 PM	10.1484	10.1608			N/A
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10/22/2018	CADCZK	1:30:00 PM	17.152	17.169			N/A
10/22/2018	CADCZK	3:30:00 PM	17.159	17.176			N/A
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10/22/2018	CADKKK	3:30:00 PM					N/A
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10/22/2018	CADHKD	1:30:00 PM	5.9902	5.9941			N/A
10/22/2018	CADHKD	3:30:00 PM	5.9843	5.9869			N/A
10/22/2018	CADHUF	9:30:00 AM	213.72	213.9			N/A
10/22/2018	CADHUF	11:30:00 AM	214.27	214.42			N/A
10/22/2018	CADHUF	1:30:00 PM	214.5	214.64			N/A
10/22/2018	CADHUF	3:30:00 PM	214.5	214.65			N/A
10/22/2018	CADJPY	9:30:00 AM	86.088	86.147			N/A
10/22/2018	CADJPY	11:30:00 AM	86.14	86.191			N/A
10/22/2018	CADJPY	1:30:00 PM	86.22	86.285			N/A
10/22/2018	CADJPY	3:30:00 PM	86.083	86.13			N/A
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10/22/2018	CADMXN	1:30:00 PM	14.727	14.736			N/A
10/22/2018	CADMXN	3:30:00 PM	14.7688	14.7737			N/A
10/22/2018	CADNOK	9:30:00 AM	6.2678	6.2724			N/A
10/22/2018	CADNOK	11:30:00 AM	6.2785	6.2829			N/A
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10/22/2018	CADNOK	3:30:00 PM	6.2866	6.2915			N/A
10/22/2018	CADPLN	9:30:00 AM	2.8431	2.845			N/A
10/22/2018	CADPLN	11:30:00 AM	2.8491	2.8503			N/A
10/22/2018	CADPLN	1:30:00 PM	2.8499	2.8517			N/A
10/22/2018	CADPLN	3:30:00 PM	2.8491	2.851			N/A
10/22/2018	CADSEK	9:30:00 AM	6.8512	6.8547			N/A
10/22/2018	CADSEK	11:30:00 AM	6.8556	6.8595			N/A
10/22/2018	CADSEK	1:30:00 PM	6.8586	6.8617			N/A
10/22/2018	CADSEK	3:30:00 PM	6.8614	6.8647			N/A
10/22/2018	CADSGD	9:30:00 AM	1.0518	1.0521			N/A
10/22/2018	CADSGD	11:30:00 AM	1.0526	1.0529			N/A
10/22/2018	CADSGD	1:30:00 PM					N/A
10/22/2018	CADSGD	3:30:00 PM	1.0534	1.0538			N/A
10/22/2018	CADZAR	9:30:00 AM	10.947	10.9646			N/A
10/22/2018	CADZAR	11:30:00 AM	10.9355	10.9468			N/A
10/22/2018	CADZAR	1:30:00 PM	10.9154	10.9254			N/A
10/22/2018	CADZAR	3:30:00 PM	10.9038	10.9186			N/A
10/22/2018	CHFCZK	9:30:00 AM	22.502	22.513			N/A
10/22/2018	CHFCZK	11:30:00 AM	22.506	22.52			N/A
10/22/2018	CHFCZK	1:30:00 PM	22.494	22.509			N/A
10/22/2018	CHFCZK	3:30:00 PM	22.56	22.573			N/A
10/22/2018	CHFDKK	9:30:00 AM					N/A
10/22/2018	CHFDKK	11:30:00 AM	6.496	6.499			N/A
10/22/2018	CHFDKK	1:30:00 PM	6.497	6.501			N/A
10/22/2018	CHFDKK	3:30:00 PM	6.512	6.516			N/A
10/22/2018	CHFHKD	9:30:00 AM	7.8732	7.8771			N/A
10/22/2018	CHFHKD	11:30:00 AM	7.8659	7.8677			N/A
10/22/2018	CHFHKD	1:30:00 PM	7.8562	7.8598			N/A
10/22/2018	CHFHKD	3:30:00 PM	7.8662	7.8698			N/A
10/22/2018	CHFHUF	9:30:00 AM	280.88	281.21			N/A

10/22/2018	CHFCHF	11:30:00 AM	281.24	281.58			N/A
10/22/2018	CHFCHF	1:30:00 PM	281.19	281.54			N/A
10/22/2018	CHFCHF	3:30:00 PM	281.9	282.23			N/A
10/22/2018	CHFJPY	9:30:00 AM	113.177	113.184			N/A
10/22/2018	CHFJPY	11:30:00 AM	113.09	113.108			N/A
10/22/2018	CHFJPY	1:30:00 PM	113.067	113.09			N/A
10/22/2018	CHFJPY	3:30:00 PM	113.155	113.174			N/A
10/22/2018	CHFUSD	9:30:00 AM	19.333	19.3393			N/A
10/22/2018	CHFUSD	11:30:00 AM	19.3411	19.3485			N/A
10/22/2018	CHFUSD	1:30:00 PM	19.3084	19.3222			N/A
10/22/2018	CHFUSD	3:30:00 PM	19.4103	19.4172			N/A
10/22/2018	CHFGBP	9:30:00 AM	8.2396	8.2464			N/A
10/22/2018	CHFGBP	11:30:00 AM	8.2435	8.249			N/A
10/22/2018	CHFGBP	1:30:00 PM	8.2462	8.2536			N/A
10/22/2018	CHFGBP	3:30:00 PM	8.2637	8.2711			N/A
10/22/2018	CHFPLN	9:30:00 AM	3.7374	3.74			N/A
10/22/2018	CHFPLN	11:30:00 AM	3.7412	3.7421			N/A
10/22/2018	CHFPLN	1:30:00 PM	3.7366	3.7394			N/A
10/22/2018	CHFPLN	3:30:00 PM	3.7448	3.7474			N/A
10/22/2018	CHFSEK	9:30:00 AM	9.0089	9.0116			N/A
10/22/2018	CHFSEK	11:30:00 AM	9.0036	9.0049			N/A
10/22/2018	CHFSEK	1:30:00 PM	8.9961	8.9979			N/A
10/22/2018	CHFSEK	3:30:00 PM	9.0204	9.0235			N/A
10/22/2018	CHFSGD	9:30:00 AM	1.3822	1.3826			N/A
10/22/2018	CHFSGD	11:30:00 AM	1.382	1.3822			N/A
10/22/2018	CHFSGD	1:30:00 PM	1.3813	1.3818			N/A
10/22/2018	CHFSGD	3:30:00 PM	1.3842	1.3847			N/A
10/22/2018	CHFZAR	9:30:00 AM	14.3941	14.4082			N/A
10/22/2018	CHFZAR	11:30:00 AM	14.3633	14.3674			N/A
10/22/2018	CHFZAR	1:30:00 PM	14.3173	14.3227			N/A
10/22/2018	CHFZAR	3:30:00 PM	14.3358	14.351			N/A
10/22/2018	CZKJPY	9:30:00 AM	5.028	5.032			N/A
10/22/2018	CZKJPY	11:30:00 AM					N/A
10/22/2018	CZKJPY	1:30:00 PM	5.025	5.029			N/A
10/22/2018	CZKJPY	3:30:00 PM	5.014	5.018			N/A
10/22/2018	DKKJPY	9:30:00 AM					N/A
10/22/2018	DKKJPY	11:30:00 AM					N/A
10/22/2018	DKKJPY	1:30:00 PM	17.41	17.42			N/A
10/22/2018	DKKJPY	3:30:00 PM	17.37	17.39			N/A
10/22/2018	EURAUD	9:30:00 AM	1.61959	1.61916			N/A
10/22/2018	EURAUD	11:30:00 AM	1.62112	1.62083			N/A
10/22/2018	EURAUD	1:30:00 PM	1.61875	1.61863			N/A
10/22/2018	EURAUD	3:30:00 PM	1.61772	1.61734			N/A
10/22/2018	EURCAD	9:30:00 AM	1.50964	1.5101			N/A
10/22/2018	EURCAD	11:30:00 AM	1.50737	1.50776			N/A
10/22/2018	EURCAD	1:30:00 PM	1.5054	1.50568			N/A
10/22/2018	EURCAD	3:30:00 PM	1.50549	1.50585			N/A
10/22/2018	EURCHF	9:30:00 AM	1.14857	1.14852			N/A
10/22/2018	EURCHF	11:30:00 AM	1.14832	1.14811			N/A
10/22/2018	EURCHF	1:30:00 PM	1.14806	1.14799			N/A

10/22/2018	EURCHF	3:30:00 PM	1.14513	1.14563			N/A
10/22/2018	EURCZK	9:30:00 AM	25.836	25.865			N/A
10/22/2018	EURCZK	11:30:00 AM	25.835	25.871			N/A
10/22/2018	EURCZK	1:30:00 PM	25.814	25.852			N/A
10/22/2018	EURCZK	3:30:00 PM	25.83	25.865			N/A
10/22/2018	EURDKK	9:30:00 AM	7.4597	7.4607			N/A
10/22/2018	EURDKK	11:30:00 AM	7.4596	7.4607			N/A
10/22/2018	EURDKK	1:30:00 PM	7.4597	7.4607			N/A
10/22/2018	EURDKK	3:30:00 PM	7.4592	7.4601			N/A
10/22/2018	EURGBP	9:30:00 AM	0.88144	0.8815			N/A
10/22/2018	EURGBP	11:30:00 AM	0.88206	0.88213			N/A
10/22/2018	EURGBP	1:30:00 PM	0.88305	0.88308			N/A
10/22/2018	EURGBP	3:30:00 PM	0.88486	0.88485			N/A
10/22/2018	EURHKD	9:30:00 AM	9.0416	9.0451			N/A
10/22/2018	EURHKD	11:30:00 AM	9.0283	9.0324			N/A
10/22/2018	EURHKD	1:30:00 PM	9.0176	9.0201			N/A
10/22/2018	EURHKD	3:30:00 PM	9.0096	9.0119			N/A
10/22/2018	EURHUF	9:30:00 AM	322.5	323.25			N/A
10/22/2018	EURHUF	11:30:00 AM	322.8	323.45			N/A
10/22/2018	EURHUF	1:30:00 PM	322.7	323.42			N/A
10/22/2018	EURHUF	3:30:00 PM	322.73	323.38			N/A
10/22/2018	EURJPY	9:30:00 AM	130.019	130			N/A
10/22/2018	EURJPY	11:30:00 AM	129.903	129.851			N/A
10/22/2018	EURJPY	1:30:00 PM	129.849	129.836			N/A
10/22/2018	EURJPY	3:30:00 PM	129.649	129.614			N/A
10/22/2018	EURMXN	9:30:00 AM	22.2047	22.216			N/A
10/22/2018	EURMXN	11:30:00 AM	22.2073	22.2214			N/A
10/22/2018	EURMXN	1:30:00 PM	22.1663	22.1831			N/A
10/22/2018	EURMXN	3:30:00 PM	22.2336	22.2443			N/A
10/22/2018	EURNOK	9:30:00 AM	9.4609	9.4734			N/A
10/22/2018	EURNOK	11:30:00 AM	9.4624	9.4739			N/A
10/22/2018	EURNOK	1:30:00 PM	9.4653	9.4773			N/A
10/22/2018	EURNOK	3:30:00 PM	9.4635	9.4749			N/A
10/22/2018	EURNZD	9:30:00 AM	1.74834	1.74905			N/A
10/22/2018	EURNZD	11:30:00 AM	1.74898	1.74961			N/A
10/22/2018	EURNZD	1:30:00 PM	1.74779	1.74847			N/A
10/22/2018	EURNZD	3:30:00 PM	1.74859	1.74883			N/A
10/22/2018	EURPLN	9:30:00 AM	4.2924	4.2956			N/A
10/22/2018	EURPLN	11:30:00 AM	4.2954	4.2969			N/A
10/22/2018	EURPLN	1:30:00 PM	4.2904	4.2928			N/A
10/22/2018	EURPLN	3:30:00 PM	4.289	4.2914			N/A
10/22/2018	EURRUR	9:30:00 AM					N/A
10/22/2018	EURRUR	11:30:00 AM	74.892	75.325			N/A
10/22/2018	EURRUR	1:30:00 PM	74.703	75.129			N/A
10/22/2018	EURRUR	3:30:00 PM	74.728	75.157			N/A
10/22/2018	EURSEK	9:30:00 AM	10.3449	10.3498			N/A
10/22/2018	EURSEK	11:30:00 AM	10.3356	10.3406			N/A
10/22/2018	EURSEK	1:30:00 PM	10.3265	10.3294			N/A
10/22/2018	EURSEK	3:30:00 PM	10.3299	10.3351			N/A
10/22/2018	EURSGD	9:30:00 AM	1.5873	1.5881			N/A

10/22/2018	EURSGD	11:30:00 AM	1.5865	1.5873			N/A
10/22/2018	EURSGD	1:30:00 PM	1.5857	1.5864			N/A
10/22/2018	EURSGD	3:30:00 PM	1.5855	1.586			N/A
10/22/2018	EURUSD	9:30:00 AM	1.15338	1.15326			N/A
10/22/2018	EURUSD	11:30:00 AM	1.15188	1.15178			N/A
10/22/2018	EURUSD	1:30:00 PM	1.15049	1.15026			N/A
10/22/2018	EURUSD	3:30:00 PM	1.14945	1.14911			N/A
10/22/2018	EURZAR	9:30:00 AM	16.5346	16.5499			N/A
10/22/2018	EURZAR	11:30:00 AM	16.4916	16.5011			N/A
10/22/2018	EURZAR	1:30:00 PM	16.439	16.4469			N/A
10/22/2018	EURZAR	3:30:00 PM	16.4235	16.4336			N/A
10/22/2018	GBPAUD	9:30:00 AM	1.8373	1.83778			N/A
10/22/2018	GBPAUD	11:30:00 AM	1.83759	1.83826			N/A
10/22/2018	GBPAUD	1:30:00 PM	1.83305	1.83382			N/A
10/22/2018	GBPAUD	3:30:00 PM	1.82827	1.82878			N/A
10/22/2018	GBPCAD	9:30:00 AM	1.71244	1.71319			N/A
10/22/2018	GBPCAD	11:30:00 AM	1.70865	1.70917			N/A
10/22/2018	GBPCAD	1:30:00 PM	1.70433	1.7051			N/A
10/22/2018	GBPCAD	3:30:00 PM	1.7012	1.70173			N/A
10/22/2018	GBPCHF	9:30:00 AM	1.30271	1.30336			N/A
10/22/2018	GBPCHF	11:30:00 AM	1.30147	1.30192			N/A
10/22/2018	GBPCHF	1:30:00 PM	1.29972	1.30044			N/A
10/22/2018	GBPCHF	3:30:00 PM	1.29429	1.29464			N/A
10/22/2018	GBPCZK	9:30:00 AM	29.313	29.33			N/A
10/22/2018	GBPCZK	11:30:00 AM	29.289	29.308			N/A
10/22/2018	GBPCZK	1:30:00 PM	29.237	29.258			N/A
10/22/2018	GBPCZK	3:30:00 PM	29.195	29.214			N/A
10/22/2018	GBPDKK	9:30:00 AM	8.46	8.471			N/A
10/22/2018	GBPDKK	11:30:00 AM	8.453	8.465			N/A
10/22/2018	GBPDKK	1:30:00 PM	8.444	8.455			N/A
10/22/2018	GBPDKK	3:30:00 PM	8.427	8.438			N/A
10/22/2018	GBPHKD	9:30:00 AM	10.2562	10.2607			N/A
10/22/2018	GBPHKD	11:30:00 AM	10.2341	10.2389			N/A
10/22/2018	GBPHKD	1:30:00 PM	10.2106	10.2146			N/A
10/22/2018	GBPHKD	3:30:00 PM	10.1803	10.1841			N/A
10/22/2018	GBPHUF	9:30:00 AM	365.91	366.32			N/A
10/22/2018	GBPHUF	11:30:00 AM	365.97	366.4			N/A
10/22/2018	GBPHUF	1:30:00 PM	365.49	365.93			N/A
10/22/2018	GBPHUF	3:30:00 PM	364.78	365.23			N/A
10/22/2018	GBPJPY	9:30:00 AM	147.488	147.514			N/A
10/22/2018	GBPJPY	11:30:00 AM	147.26	147.245			N/A
10/22/2018	GBPJPY	1:30:00 PM	147.027	147.053	200	200	N/A
10/22/2018	GBPJPY	3:30:00 PM	146.508	146.517			N/A
10/22/2018	GBPMXN	9:30:00 AM	25.1864	25.193			N/A
10/22/2018	GBPMXN	11:30:00 AM	25.1701	25.1807			N/A
10/22/2018	GBPMXN	1:30:00 PM	25.099	25.1119			N/A
10/22/2018	GBPMXN	3:30:00 PM	25.1235	25.1265			N/A
10/22/2018	GBPNOK	9:30:00 AM	10.735	10.7462			N/A
10/22/2018	GBPNOK	11:30:00 AM	10.7284	10.7396			N/A
10/22/2018	GBPNOK	1:30:00 PM	10.7199	10.7314			N/A

10/22/2018	GBPNOK	3:30:00 PM	10.6963	10.7068			N/A
10/22/2018	GBPNZD	9:30:00 AM	1.98365	1.98425			N/A
10/22/2018	GBPNZD	11:30:00 AM	1.98288	1.98333			N/A
10/22/2018	GBPNZD	1:30:00 PM	1.97926	1.98006			N/A
10/22/2018	GBPNZD	3:30:00 PM	1.97613	1.97648			N/A
10/22/2018	GBPPLN	9:30:00 AM	4.8706	4.8724			N/A
10/22/2018	GBPPLN	11:30:00 AM	4.8703	4.8706			N/A
10/22/2018	GBPPLN	1:30:00 PM	4.8592	4.8604			N/A
10/22/2018	GBPPLN	3:30:00 PM	4.8484	4.8497			N/A
10/22/2018	GBPSEK	9:30:00 AM	11.7351	11.7439			N/A
10/22/2018	GBPSEK	11:30:00 AM	11.7154	11.7245			N/A
10/22/2018	GBPSEK	1:30:00 PM	11.6925	11.6994			N/A
10/22/2018	GBPSEK	3:30:00 PM	11.6734	11.6814			N/A
10/22/2018	GBPSGD	9:30:00 AM	1.801	1.8017			N/A
10/22/2018	GBPSGD	11:30:00 AM	1.7987	1.7994			N/A
10/22/2018	GBPSGD	1:30:00 PM	1.7956	1.7965			N/A
10/22/2018	GBPSGD	3:30:00 PM	1.7918	1.7924			N/A
10/22/2018	GBPUSD	9:30:00 AM	1.30869	1.30854			N/A
10/22/2018	GBPUSD	11:30:00 AM	1.30599	1.30584			N/A
10/22/2018	GBPUSD	1:30:00 PM	1.30296	1.30284			N/A
10/22/2018	GBPUSD	3:30:00 PM	1.29914	1.29887			N/A
10/22/2018	GBPZAR	9:30:00 AM	18.7558	18.7799			N/A
10/22/2018	GBPZAR	11:30:00 AM	18.6922	18.7117			N/A
10/22/2018	GBPZAR	1:30:00 PM	18.6135	18.6281			N/A
10/22/2018	GBPZAR	3:30:00 PM	18.5572	18.5765			N/A
10/22/2018	GOLD	9:30:00 AM	1227.01	1226.73			N/A
10/22/2018	GOLD	11:30:00 AM	1224.47	1224.6			N/A
10/22/2018	GOLD	1:30:00 PM	1223.44	1223.47			N/A
10/22/2018	GOLD	3:30:00 PM	1224.3	1223.61			N/A
10/22/2018	HKDJPY	9:30:00 AM	14.38	14.4			N/A
10/22/2018	HKDJPY	11:30:00 AM					N/A
10/22/2018	HKDJPY	1:30:00 PM	14.4	14.41			N/A
10/22/2018	HKDJPY	3:30:00 PM					N/A
10/22/2018	HUFJPY	9:30:00 AM	0.4028	0.4031			N/A
10/22/2018	HUFJPY	11:30:00 AM	0.4023	0.4026			N/A
10/22/2018	HUFJPY	1:30:00 PM	0.402	0.4023			N/A
10/22/2018	HUFJPY	3:30:00 PM	0.4014	0.4017			N/A
10/22/2018	MXNJPY	9:30:00 AM	5.85	5.87			N/A
10/22/2018	MXNJPY	11:30:00 AM					N/A
10/22/2018	MXNJPY	1:30:00 PM					N/A
10/22/2018	MXNJPY	3:30:00 PM					N/A
10/22/2018	NOKJPY	9:30:00 AM					N/A
10/22/2018	NOKJPY	11:30:00 AM					N/A
10/22/2018	NOKJPY	1:30:00 PM					N/A
10/22/2018	NOKJPY	3:30:00 PM					N/A
10/22/2018	NZDCAD	9:30:00 AM	0.86303	0.8636			N/A
10/22/2018	NZDCAD	11:30:00 AM	0.86139	0.86206			N/A
10/22/2018	NZDCAD	1:30:00 PM	0.86078	0.86142			N/A
10/22/2018	NZDCAD	3:30:00 PM	0.86075	0.86121			N/A
10/22/2018	NZDCHF	9:30:00 AM	0.65649	0.65706			N/A

10/22/2018	NZDCHF	11:30:00 AM	0.6561	0.65667			N/A
10/22/2018	NZDCHF	1:30:00 PM	0.65639	0.65704			N/A
10/22/2018	NZDCHF	3:30:00 PM	0.65469	0.65532			N/A
10/22/2018	NZDCZK	9:30:00 AM	14.773	14.784			N/A
10/22/2018	NZDCZK	11:30:00 AM	14.768	14.779			N/A
10/22/2018	NZDCZK	1:30:00 PM	14.767	14.78			N/A
10/22/2018	NZDCZK	3:30:00 PM	14.773	14.781			N/A
10/22/2018	NZDDKK	9:30:00 AM					N/A
10/22/2018	NZDDKK	11:30:00 AM					N/A
10/22/2018	NZDDKK	1:30:00 PM					N/A
10/22/2018	NZDDKK	3:30:00 PM	4.265	4.267			N/A
10/22/2018	NZDHKD	9:30:00 AM	5.1693	5.1713			N/A
10/22/2018	NZDHKD	11:30:00 AM	5.1601	5.1629			N/A
10/22/2018	NZDHKD	1:30:00 PM	5.1565	5.1593			N/A
10/22/2018	NZDHKD	3:30:00 PM	5.1496	5.1524			N/A
10/22/2018	NZDHUF	9:30:00 AM	184.39	184.67			N/A
10/22/2018	NZDHUF	11:30:00 AM	184.51	184.78			N/A
10/22/2018	NZDHUF	1:30:00 PM	184.59	184.85			N/A
10/22/2018	NZDHUF	3:30:00 PM	184.56	184.79			N/A
10/22/2018	NZDJPY	9:30:00 AM	74.312	74.381			N/A
10/22/2018	NZDJPY	11:30:00 AM	74.223	74.279			N/A
10/22/2018	NZDJPY	1:30:00 PM	74.24	74.305			N/A
10/22/2018	NZDJPY	3:30:00 PM	74.105	74.166			N/A
10/22/2018	NZDMXN	9:30:00 AM	12.6945	12.6962			N/A
10/22/2018	NZDMXN	11:30:00 AM	12.6909	12.6939			N/A
10/22/2018	NZDMXN	1:30:00 PM	12.6774	12.6825			N/A
10/22/2018	NZDMXN	3:30:00 PM	12.7116	12.7097			N/A
10/22/2018	NZDNOK	9:30:00 AM	5.4096	5.4135			N/A
10/22/2018	NZDNOK	11:30:00 AM	5.4086	5.4125			N/A
10/22/2018	NZDNOK	1:30:00 PM	5.4135	5.4174			N/A
10/22/2018	NZDNOK	3:30:00 PM	5.411	5.4139			N/A
10/22/2018	NZDPLN	9:30:00 AM	2.4538	2.4552			N/A
10/22/2018	NZDPLN	11:30:00 AM	2.4544	2.4552			N/A
10/22/2018	NZDPLN	1:30:00 PM	2.4534	2.4548			N/A
10/22/2018	NZDPLN	3:30:00 PM	2.452	2.4534			N/A
10/22/2018	NZDSEK	9:30:00 AM	5.9116	5.9184			N/A
10/22/2018	NZDSEK	11:30:00 AM	5.9041	5.9109			N/A
10/22/2018	NZDSEK	1:30:00 PM	5.902	5.9085			N/A
10/22/2018	NZDSEK	3:30:00 PM	5.9034	5.9091			N/A
10/22/2018	NZDSGD	9:30:00 AM	0.9078	0.9084			N/A
10/22/2018	NZDSGD	11:30:00 AM	0.907	0.9077			N/A
10/22/2018	NZDSGD	1:30:00 PM	0.9071	0.9078			N/A
10/22/2018	NZDSGD	3:30:00 PM	0.9067	0.9072			N/A
10/22/2018	NZDUSD	9:30:00 AM	0.65956	0.6594			N/A
10/22/2018	NZDUSD	11:30:00 AM	0.6584	0.65842			N/A
10/22/2018	NZDUSD	1:30:00 PM	0.65805	0.65806			N/A
10/22/2018	NZDUSD	3:30:00 PM	0.65721	0.65713			N/A
10/22/2018	NZDZAR	9:30:00 AM	9.4465	9.4637			N/A
10/22/2018	NZDZAR	11:30:00 AM	9.4185	9.4313			N/A
10/22/2018	NZDZAR	1:30:00 PM	9.3945	9.4058			N/A

10/22/2018	NZDZAR	3:30:00 PM	9.3825	9.3995			N/A
10/22/2018	SEKJPY	9:30:00 AM	12.57	12.58			N/A
10/22/2018	SEKJPY	11:30:00 AM	12.57	12.58			N/A
10/22/2018	SEKJPY	1:30:00 PM	12.58	12.59			N/A
10/22/2018	SEKJPY	3:30:00 PM					N/A
10/22/2018	SGDJPY	9:30:00 AM	81.86	81.88			N/A
10/22/2018	SGDJPY	11:30:00 AM	81.83	81.84			N/A
10/22/2018	SGDJPY	1:30:00 PM	81.84	81.87			N/A
10/22/2018	SGDJPY	3:30:00 PM	81.73	81.76			N/A
10/22/2018	SILVER	9:30:00 AM	14.43	14.8			N/A
10/22/2018	SILVER	11:30:00 AM	14.44	14.81			N/A
10/22/2018	SILVER	1:30:00 PM	14.45	14.81			N/A
10/22/2018	SILVER	3:30:00 PM	14.46	14.82			N/A
10/22/2018	USDCAD	9:30:00 AM	1.30889	1.3089			N/A
10/22/2018	USDCAD	11:30:00 AM	1.30856	1.30859			N/A
10/22/2018	USDCAD	1:30:00 PM	1.30846	1.30845			N/A
10/22/2018	USDCAD	3:30:00 PM	1.31008	1.30976			N/A
10/22/2018	USDCHF	9:30:00 AM	0.99569	0.99581			N/A
10/22/2018	USDCHF	11:30:00 AM	0.9968	0.99667			N/A
10/22/2018	USDCHF	1:30:00 PM	0.99784	0.99778			N/A
10/22/2018	USDCHF	3:30:00 PM	0.99619	0.99681			N/A
10/22/2018	USDCZK	9:30:00 AM	22.403	22.42			N/A
10/22/2018	USDCZK	11:30:00 AM	22.429	22.45			N/A
10/22/2018	USDCZK	1:30:00 PM	22.442	22.462			N/A
10/22/2018	USDCZK	3:30:00 PM	22.478	22.495			N/A
10/22/2018	USDDKK	9:30:00 AM	6.4686	6.4729			N/A
10/22/2018	USDDKK	11:30:00 AM	6.4769	6.4816			N/A
10/22/2018	USDDKK	1:30:00 PM	6.4855	6.4892			N/A
10/22/2018	USDDKK	3:30:00 PM	6.4919	6.4952			N/A
10/22/2018	USDHKD	9:30:00 AM	7.84	7.8405			N/A
10/22/2018	USDHKD	11:30:00 AM	7.8391	7.8396			N/A
10/22/2018	USDHKD	1:30:00 PM	7.8389	7.8392			N/A
10/22/2018	USDHKD	3:30:00 PM	7.8393	7.8397			N/A
10/22/2018	USDHUF	9:30:00 AM	279.69	280.12			N/A
10/22/2018	USDHUF	11:30:00 AM	280.31	280.75			N/A
10/22/2018	USDHUF	1:30:00 PM	280.55	280.95			N/A
10/22/2018	USDHUF	3:30:00 PM	280.89	281.28			N/A
10/22/2018	USDJPY	9:30:00 AM	112.736	112.706			N/A
10/22/2018	USDJPY	11:30:00 AM	112.772	112.747			N/A
10/22/2018	USDJPY	1:30:00 PM	112.86	112.85			N/A
10/22/2018	USDJPY	3:30:00 PM	112.794	112.786			N/A
10/22/2018	USDMXN	9:30:00 AM	19.256	19.255			N/A
10/22/2018	USDMXN	11:30:00 AM	19.283	19.285			N/A
10/22/2018	USDMXN	1:30:00 PM	19.273	19.275			N/A
10/22/2018	USDMXN	3:30:00 PM	19.347	19.345			N/A
10/22/2018	USDNOK	9:30:00 AM	8.2049	8.2128			N/A
10/22/2018	USDNOK	11:30:00 AM	8.2168	8.2247			N/A
10/22/2018	USDNOK	1:30:00 PM	8.2293	8.2371			N/A
10/22/2018	USDNOK	3:30:00 PM	8.2359	8.2429			N/A
10/22/2018	USDPLN	9:30:00 AM	3.7223	3.7229			N/A

10/22/2018	USDPLN	11:30:00 AM	3.7298	3.7293			N/A
10/22/2018	USDPLN	1:30:00 PM	3.7297	3.7302			N/A
10/22/2018	USDPLN	3:30:00 PM	3.7328	3.7331			N/A
10/22/2018	USDRUR	9:30:00 AM					N/A
10/22/2018	USDRUR	11:30:00 AM	65.089	65.467			N/A
10/22/2018	USDRUR	1:30:00 PM	65.004	65.376			N/A
10/22/2018	USDRUR	3:30:00 PM	65.099	65.471			N/A
10/22/2018	USDSEK	9:30:00 AM	8.9677	8.9714			N/A
10/22/2018	USDSEK	11:30:00 AM	8.9714	8.975			N/A
10/22/2018	USDSEK	1:30:00 PM	8.9748	8.9762			N/A
10/22/2018	USDSEK	3:30:00 PM	8.9869	8.9892			N/A
10/22/2018	USDSGD	9:30:00 AM	1.3763	1.3767			N/A
10/22/2018	USDSGD	11:30:00 AM	1.3774	1.3778			N/A
10/22/2018	USDSGD	1:30:00 PM	1.3784	1.3786			N/A
10/22/2018	USDSGD	3:30:00 PM	1.3794	1.3798			N/A
10/22/2018	USDZAR	9:30:00 AM	14.3348	14.3491			N/A
10/22/2018	USDZAR	11:30:00 AM	14.3153	14.325			N/A
10/22/2018	USDZAR	1:30:00 PM	14.2901	14.2942			N/A
10/22/2018	USDZAR	3:30:00 PM	14.2865	14.3018			N/A
10/22/2018	XAUUSD	9:30:00 AM	1227.01	1226.72			N/A
10/22/2018	XAUUSD	11:30:00 AM	1224.47	1224.6			N/A
10/22/2018	XAUUSD	1:30:00 PM	1223.44	1223.46			N/A
10/22/2018	XAUUSD	3:30:00 PM	1224.3	1223.61			N/A
10/22/2018	ZARJPY	9:30:00 AM					N/A
10/22/2018	ZARJPY	11:30:00 AM	7.83	7.87			N/A
10/22/2018	ZARJPY	1:30:00 PM					N/A
10/22/2018	ZARJPY	3:30:00 PM					N/A
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10/23/2018	#YHOO	3:30:00 PM					N/A
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10/23/2018	#ZNGA	1:30:00 PM					N/A
10/23/2018	#ZNGA	3:30:00 PM					N/A
10/23/2018	AUDCAD	9:30:00 AM	0.92528	0.92597			N/A
10/23/2018	AUDCAD	11:30:00 AM	0.92671	0.92726			N/A
10/23/2018	AUDCAD	1:30:00 PM	0.92758	0.92823			N/A
10/23/2018	AUDCAD	3:30:00 PM	0.92619	0.92679			N/A
10/23/2018	AUDCHF	9:30:00 AM	0.70354	0.70417			N/A
10/23/2018	AUDCHF	11:30:00 AM	0.70518	0.7057			N/A
10/23/2018	AUDCHF	1:30:00 PM	0.70426	0.70489			N/A

10/23/2018	AUDCHF	3:30:00 PM	0.7035	0.70415			N/A
10/23/2018	AUDCZK	9:30:00 AM	15.918	15.933			N/A
10/23/2018	AUDCZK	11:30:00 AM	15.943	15.959			N/A
10/23/2018	AUDCZK	1:30:00 PM	15.922	15.938			N/A
10/23/2018	AUDCZK	3:30:00 PM	15.888	15.904			N/A
10/23/2018	AUDDKK	9:30:00 AM	4.5987	4.6032			N/A
10/23/2018	AUDDKK	11:30:00 AM	4.6057	4.6097			N/A
10/23/2018	AUDDKK	1:30:00 PM	4.6018	4.6063			N/A
10/23/2018	AUDDKK	3:30:00 PM	4.5933	4.5978			N/A
10/23/2018	AUDHKD	9:30:00 AM	5.5324	5.5354			N/A
10/23/2018	AUDHKD	11:30:00 AM	5.5479	5.5518			N/A
10/23/2018	AUDHKD	1:30:00 PM	5.5503	5.5535			N/A
10/23/2018	AUDHKD	3:30:00 PM	5.5374	5.5408			N/A
10/23/2018	AUDHUF	9:30:00 AM	199.2	199.41			N/A
10/23/2018	AUDHUF	11:30:00 AM	199.17	199.41			N/A
10/23/2018	AUDHUF	1:30:00 PM	198.96	199.2			N/A
10/23/2018	AUDHUF	3:30:00 PM	198.61	198.85			N/A
10/23/2018	AUDJPY	9:30:00 AM	79.378	79.412			N/A
10/23/2018	AUDJPY	11:30:00 AM	79.487	79.53			N/A
10/23/2018	AUDJPY	1:30:00 PM	79.528	79.557			N/A
10/23/2018	AUDJPY	3:30:00 PM	79.241	79.294			N/A
10/23/2018	AUDMXN	9:30:00 AM	13.6967	13.7067			N/A
10/23/2018	AUDMXN	11:30:00 AM	13.715	13.7199			N/A
10/23/2018	AUDMXN	1:30:00 PM	13.7139	13.7207			N/A
10/23/2018	AUDMXN	3:30:00 PM	13.6915	13.6989			N/A
10/23/2018	AUDNOK	9:30:00 AM	5.8452	5.8499			N/A
10/23/2018	AUDNOK	11:30:00 AM	5.8555	5.8599			N/A
10/23/2018	AUDNOK	1:30:00 PM	5.8597	5.8655			N/A
10/23/2018	AUDNOK	3:30:00 PM	5.8501	5.856			N/A
10/23/2018	AUDNZD	9:30:00 AM	1.07843	1.07907			N/A
10/23/2018	AUDNZD	11:30:00 AM	1.07858	1.07919			N/A
10/23/2018	AUDNZD	1:30:00 PM	1.07868	1.07927			N/A
10/23/2018	AUDNZD	3:30:00 PM	1.07734	1.07806			N/A
10/23/2018	AUDPLN	9:30:00 AM	2.6503	2.6529			N/A
10/23/2018	AUDPLN	11:30:00 AM	2.6525	2.6554			N/A
10/23/2018	AUDPLN	1:30:00 PM	2.6512	2.6541			N/A
10/23/2018	AUDPLN	3:30:00 PM	2.644	2.6469			N/A
10/23/2018	AUDSEK	9:30:00 AM	6.3754	6.3782			N/A
10/23/2018	AUDSEK	11:30:00 AM	6.3802	6.3829			N/A
10/23/2018	AUDSEK	1:30:00 PM	6.3833	6.3862			N/A
10/23/2018	AUDSEK	3:30:00 PM	6.3829	6.386			N/A
10/23/2018	AUDSGD	9:30:00 AM	0.9749	0.9751			N/A
10/23/2018	AUDSGD	11:30:00 AM	0.9762	0.9763			N/A
10/23/2018	AUDSGD	1:30:00 PM	0.9762	0.9765			N/A
10/23/2018	AUDSGD	3:30:00 PM	0.974	0.9743			N/A
10/23/2018	AUDUSD	9:30:00 AM	0.70628	0.7062			N/A
10/23/2018	AUDUSD	11:30:00 AM	0.70827	0.70802			N/A
10/23/2018	AUDUSD	1:30:00 PM	0.70843	0.70838			N/A
10/23/2018	AUDUSD	3:30:00 PM	0.7068	0.7067			N/A
10/23/2018	AUDZAR	9:30:00 AM	10.1589	10.1672			N/A

10/23/2018	AUDZAR	11:30:00 AM	10.1744	10.179			N/A
10/23/2018	AUDZAR	1:30:00 PM	10.1725	10.1824			N/A
10/23/2018	AUDZAR	3:30:00 PM	10.1379	10.1485			N/A
10/23/2018	CADCHF	9:30:00 AM	0.76005	0.76075			N/A
10/23/2018	CADCHF	11:30:00 AM	0.76068	0.76126			N/A
10/23/2018	CADCHF	1:30:00 PM	0.75904	0.75963			N/A
10/23/2018	CADCHF	3:30:00 PM	0.75934	0.75992			N/A
10/23/2018	CADCZK	9:30:00 AM	17.203	17.218			N/A
10/23/2018	CADCZK	11:30:00 AM	17.202	17.219			N/A
10/23/2018	CADCZK	1:30:00 PM	17.165	17.181			N/A
10/23/2018	CADCZK	3:30:00 PM	17.154	17.17			N/A
10/23/2018	CADDKK	9:30:00 AM					N/A
10/23/2018	CADDKK	11:30:00 AM					N/A
10/23/2018	CADDKK	1:30:00 PM	4.961	4.965			N/A
10/23/2018	CADDKK	3:30:00 PM	4.959	4.963			N/A
10/23/2018	CADHKD	9:30:00 AM	5.9784	5.9823			N/A
10/23/2018	CADHKD	11:30:00 AM	5.9875	5.991			N/A
10/23/2018	CADHKD	1:30:00 PM	5.9832	5.9871			N/A
10/23/2018	CADHKD	3:30:00 PM	5.9788	5.9827			N/A
10/23/2018	CADHUF	9:30:00 AM	215.31	215.43			N/A
10/23/2018	CADHUF	11:30:00 AM	214.95	215.11			N/A
10/23/2018	CADHUF	1:30:00 PM	214.53	214.69			N/A
10/23/2018	CADHUF	3:30:00 PM	214.47	214.63			N/A
10/23/2018	CADJPY	9:30:00 AM	85.755	85.794			N/A
10/23/2018	CADJPY	11:30:00 AM	85.739	85.796			N/A
10/23/2018	CADJPY	1:30:00 PM	85.717	85.74			N/A
10/23/2018	CADJPY	3:30:00 PM	85.524	85.587			N/A
10/23/2018	CADMXN	9:30:00 AM	14.8031	14.8143			N/A
10/23/2018	CADMXN	11:30:00 AM	14.7997	14.8064			N/A
10/23/2018	CADMXN	1:30:00 PM	14.7845	14.7944			N/A
10/23/2018	CADMXN	3:30:00 PM	14.7821	14.7938			N/A
10/23/2018	CADNOK	9:30:00 AM	6.3177	6.3206			N/A
10/23/2018	CADNOK	11:30:00 AM	6.3184	6.3218			N/A
10/23/2018	CADNOK	1:30:00 PM	6.3175	6.3221			N/A
10/23/2018	CADNOK	3:30:00 PM	6.3174	6.3218			N/A
10/23/2018	CADPLN	9:30:00 AM	2.8633	2.8642			N/A
10/23/2018	CADPLN	11:30:00 AM	2.8619	2.8638			N/A
10/23/2018	CADPLN	1:30:00 PM	2.8579	2.8598			N/A
10/23/2018	CADPLN	3:30:00 PM	2.8547	2.8565			N/A
10/23/2018	CADSEK	9:30:00 AM	6.8878	6.8916			N/A
10/23/2018	CADSEK	11:30:00 AM	6.8824	6.8854			N/A
10/23/2018	CADSEK	1:30:00 PM	6.879	6.8829			N/A
10/23/2018	CADSEK	3:30:00 PM	6.8902	6.8934			N/A
10/23/2018	CADSGD	9:30:00 AM	1.0532	1.0535			N/A
10/23/2018	CADSGD	11:30:00 AM	1.0534	1.0537			N/A
10/23/2018	CADSGD	1:30:00 PM	1.0522	1.0525			N/A
10/23/2018	CADSGD	3:30:00 PM	1.0517	1.0519			N/A
10/23/2018	CADZAR	9:30:00 AM	10.9735	10.9829			N/A
10/23/2018	CADZAR	11:30:00 AM	10.9722	10.978			N/A
10/23/2018	CADZAR	1:30:00 PM	10.9584	10.9726			N/A

10/23/2018	CADZAR	3:30:00 PM	10.9409	10.9524			N/A
10/23/2018	CHFCZK	9:30:00 AM	22.627	22.644			N/A
10/23/2018	CHFCZK	11:30:00 AM	22.611	22.624			N/A
10/23/2018	CHFCZK	1:30:00 PM	22.61	22.625			N/A
10/23/2018	CHFCZK	3:30:00 PM	22.586	22.6			N/A
10/23/2018	CHFDKK	9:30:00 AM	6.535	6.539			N/A
10/23/2018	CHFDKK	11:30:00 AM	6.531	6.534			N/A
10/23/2018	CHFDKK	1:30:00 PM					N/A
10/23/2018	CHFDKK	3:30:00 PM					N/A
10/23/2018	CHFHKD	9:30:00 AM	7.8645	7.8676			N/A
10/23/2018	CHFHKD	11:30:00 AM	7.8687	7.8701			N/A
10/23/2018	CHFHKD	1:30:00 PM	7.8807	7.8843			N/A
10/23/2018	CHFHKD	3:30:00 PM	7.8716	7.8745			N/A
10/23/2018	CHFHUF	9:30:00 AM	283.09	283.41			N/A
10/23/2018	CHFHUF	11:30:00 AM	282.41	282.75			N/A
10/23/2018	CHFHUF	1:30:00 PM	282.46	282.84			N/A
10/23/2018	CHFHUF	3:30:00 PM	282.27	282.63			N/A
10/23/2018	CHFJPY	9:30:00 AM	112.785	112.824			N/A
10/23/2018	CHFJPY	11:30:00 AM	112.688	112.695			N/A
10/23/2018	CHFJPY	1:30:00 PM	112.88	112.888			N/A
10/23/2018	CHFJPY	3:30:00 PM	112.613	112.615			N/A
10/23/2018	CHFMXN	9:30:00 AM	19.4666	19.4818			N/A
10/23/2018	CHFMXN	11:30:00 AM	19.4487	19.4543			N/A
10/23/2018	CHFMXN	1:30:00 PM	19.4707	19.4802			N/A
10/23/2018	CHFMXN	3:30:00 PM	19.4602	19.4729			N/A
10/23/2018	CHFNOK	9:30:00 AM	8.3074	8.3151			N/A
10/23/2018	CHFNOK	11:30:00 AM	8.3043	8.3096			N/A
10/23/2018	CHFNOK	1:30:00 PM	8.3198	8.3269			N/A
10/23/2018	CHFNOK	3:30:00 PM	8.3158	8.3234			N/A
10/23/2018	CHFPLN	9:30:00 AM	3.7658	3.7683			N/A
10/23/2018	CHFPLN	11:30:00 AM	3.7605	3.763			N/A
10/23/2018	CHFPLN	1:30:00 PM	3.7638	3.7663			N/A
10/23/2018	CHFPLN	3:30:00 PM	3.7573	3.7601			N/A
10/23/2018	CHFSEK	9:30:00 AM	9.0609	9.0633			N/A
10/23/2018	CHFSEK	11:30:00 AM	9.047	9.0494			N/A
10/23/2018	CHFSEK	1:30:00 PM	9.0623	9.0652			N/A
10/23/2018	CHFSEK	3:30:00 PM	9.0726	9.0754			N/A
10/23/2018	CHFSGD	9:30:00 AM	1.3851	1.3856			N/A
10/23/2018	CHFSGD	11:30:00 AM	1.3839	1.3841			N/A
10/23/2018	CHFSGD	1:30:00 PM	1.3856	1.386			N/A
10/23/2018	CHFSGD	3:30:00 PM	1.3841	1.3845			N/A
10/23/2018	CHFZAR	9:30:00 AM	14.4352	14.4426			N/A
10/23/2018	CHFZAR	11:30:00 AM	14.425	14.4223			N/A
10/23/2018	CHFZAR	1:30:00 PM	14.4373	14.4461			N/A
10/23/2018	CHFZAR	3:30:00 PM	14.4065	14.4171			N/A
10/23/2018	CZKJPY	9:30:00 AM	4.983	4.987			N/A
10/23/2018	CZKJPY	11:30:00 AM	4.983	4.986			N/A
10/23/2018	CZKJPY	1:30:00 PM	4.992	4.994			N/A
10/23/2018	CZKJPY	3:30:00 PM	4.985	4.989			N/A
10/23/2018	DKKJPY	9:30:00 AM	17.26	17.28			N/A

10/23/2018	DKKJPY	11:30:00 AM	17.25	17.27			N/A
10/23/2018	DKKJPY	1:30:00 PM	17.28	17.29			N/A
10/23/2018	DKKJPY	3:30:00 PM	17.25	17.26			N/A
10/23/2018	EURAUD	9:30:00 AM	1.62115	1.62114			N/A
10/23/2018	EURAUD	11:30:00 AM	1.61899	1.61867			N/A
10/23/2018	EURAUD	1:30:00 PM	1.62016	1.62001			N/A
10/23/2018	EURAUD	3:30:00 PM	1.6231	1.62294			N/A
10/23/2018	EURCAD	9:30:00 AM	1.50088	1.50133			N/A
10/23/2018	EURCAD	11:30:00 AM	1.50096	1.50145			N/A
10/23/2018	EURCAD	1:30:00 PM	1.50346	1.50397			N/A
10/23/2018	EURCAD	3:30:00 PM	1.50413	1.50435			N/A
10/23/2018	EURCHF	9:30:00 AM	1.14136	1.14127			N/A
10/23/2018	EURCHF	11:30:00 AM	1.14229	1.14223			N/A
10/23/2018	EURCHF	1:30:00 PM	1.14171	1.14173			N/A
10/23/2018	EURCHF	3:30:00 PM	1.14229	1.14284			N/A
10/23/2018	EURCZK	9:30:00 AM	25.81	25.847			N/A
10/23/2018	EURCZK	11:30:00 AM					N/A
10/23/2018	EURCZK	1:30:00 PM	25.802	25.838			N/A
10/23/2018	EURCZK	3:30:00 PM	25.796	25.832			N/A
10/23/2018	EURDKK	9:30:00 AM	7.4602	7.4613			N/A
10/23/2018	EURDKK	11:30:00 AM	7.4602	7.4613			N/A
10/23/2018	EURDKK	1:30:00 PM	7.4599	7.4611			N/A
10/23/2018	EURDKK	3:30:00 PM	7.4596	7.4607			N/A
10/23/2018	EURGBP	9:30:00 AM	0.8839	0.88392			N/A
10/23/2018	EURGBP	11:30:00 AM	0.88275	0.88268			N/A
10/23/2018	EURGBP	1:30:00 PM	0.88386	0.88394			N/A
10/23/2018	EURGBP	3:30:00 PM	0.88135	0.88141			N/A
10/23/2018	EURHKD	9:30:00 AM	8.9744	8.9775			N/A
10/23/2018	EURHKD	11:30:00 AM	8.9859	8.9901			N/A
10/23/2018	EURHKD	1:30:00 PM	8.9965	9.0004			N/A
10/23/2018	EURHKD	3:30:00 PM	8.9923	8.996			N/A
10/23/2018	EURHUF	9:30:00 AM	323.08	323.69			N/A
10/23/2018	EURHUF	11:30:00 AM	322.42	323.08			N/A
10/23/2018	EURHUF	1:30:00 PM	322.32	323.01			N/A
10/23/2018	EURHUF	3:30:00 PM	322.3	323.02			N/A
10/23/2018	EURJPY	9:30:00 AM	128.772	128.715			N/A
10/23/2018	EURJPY	11:30:00 AM	128.753	128.718			N/A
10/23/2018	EURJPY	1:30:00 PM	128.928	128.862			N/A
10/23/2018	EURJPY	3:30:00 PM	128.698	128.647			N/A
10/23/2018	EURMXN	9:30:00 AM	22.2175	22.2351			N/A
10/23/2018	EURMXN	11:30:00 AM	22.2177	22.2246			N/A
10/23/2018	EURMXN	1:30:00 PM	22.2299	22.2427			N/A
10/23/2018	EURMXN	3:30:00 PM	22.2337	22.2487			N/A
10/23/2018	EURNOK	9:30:00 AM	9.4809	9.4922			N/A
10/23/2018	EURNOK	11:30:00 AM	9.4831	9.494			N/A
10/23/2018	EURNOK	1:30:00 PM	9.4971	9.5091			N/A
10/23/2018	EURNOK	3:30:00 PM	9.4995	9.5122			N/A
10/23/2018	EURNZD	9:30:00 AM	1.74906	1.74971			N/A
10/23/2018	EURNZD	11:30:00 AM	1.74674	1.74747			N/A
10/23/2018	EURNZD	1:30:00 PM	1.74821	1.74886			N/A

10/23/2018	EURNZD	3:30:00 PM	1.74926	1.75003			N/A
10/23/2018	EURPLN	9:30:00 AM	4.2985	4.3			N/A
10/23/2018	EURPLN	11:30:00 AM	4.2957	4.2989			N/A
10/23/2018	EURPLN	1:30:00 PM	4.2973	4.2996			N/A
10/23/2018	EURPLN	3:30:00 PM	4.293	4.2958			N/A
10/23/2018	EURRUR	9:30:00 AM					N/A
10/23/2018	EURRUR	11:30:00 AM	74.548	74.976			N/A
10/23/2018	EURRUR	1:30:00 PM	74.686	75.124			N/A
10/23/2018	EURRUR	3:30:00 PM	74.689	75.092			N/A
10/23/2018	EURSEK	9:30:00 AM	10.34	10.3444			N/A
10/23/2018	EURSEK	11:30:00 AM	10.3331	10.3365			N/A
10/23/2018	EURSEK	1:30:00 PM	10.3447	10.3491			N/A
10/23/2018	EURSEK	3:30:00 PM	10.3648	10.3677			N/A
10/23/2018	EURSGD	9:30:00 AM	1.5808	1.5815			N/A
10/23/2018	EURSGD	11:30:00 AM	1.5806	1.581			N/A
10/23/2018	EURSGD	1:30:00 PM	1.5818	1.5826			N/A
10/23/2018	EURSGD	3:30:00 PM	1.5812	1.5819			N/A
10/23/2018	EURUSD	9:30:00 AM	1.14508	1.14483			N/A
10/23/2018	EURUSD	11:30:00 AM	1.14647	1.14635			N/A
10/23/2018	EURUSD	1:30:00 PM	1.14776	1.14767			N/A
10/23/2018	EURUSD	3:30:00 PM	1.14715	1.14698			N/A
10/23/2018	EURZAR	9:30:00 AM	16.477	16.487			N/A
10/23/2018	EURZAR	11:30:00 AM	16.4781	16.4787			N/A
10/23/2018	EURZAR	1:30:00 PM	16.4856	16.4968			N/A
10/23/2018	EURZAR	3:30:00 PM	16.4599	16.4727			N/A
10/23/2018	GBPAUD	9:30:00 AM	1.83424	1.83486			N/A
10/23/2018	GBPAUD	11:30:00 AM	1.83428	1.83448			N/A
10/23/2018	GBPAUD	1:30:00 PM	1.83306	1.83359			N/A
10/23/2018	GBPAUD	3:30:00 PM	1.84161	1.8422			N/A
10/23/2018	GBPCAD	9:30:00 AM	1.69773	1.69845			N/A
10/23/2018	GBPCAD	11:30:00 AM	1.70018	1.70075			N/A
10/23/2018	GBPCAD	1:30:00 PM	1.70078	1.70143			N/A
10/23/2018	GBPCAD	3:30:00 PM	1.70632	1.70686			N/A
10/23/2018	GBPCHF	9:30:00 AM	1.29086	1.29163			N/A
10/23/2018	GBPCHF	11:30:00 AM	1.29385	1.29422			N/A
10/23/2018	GBPCHF	1:30:00 PM	1.29137	1.29202			N/A
10/23/2018	GBPCHF	3:30:00 PM	1.29621	1.29656			N/A
10/23/2018	GBPCZK	9:30:00 AM	29.211	29.229			N/A
10/23/2018	GBPCZK	11:30:00 AM	29.253	29.269			N/A
10/23/2018	GBPCZK	1:30:00 PM	29.198	29.219			N/A
10/23/2018	GBPCZK	3:30:00 PM	29.273	29.292			N/A
10/23/2018	GBPDKK	9:30:00 AM	8.437	8.448			N/A
10/23/2018	GBPDKK	11:30:00 AM	8.449	8.459			N/A
10/23/2018	GBPDKK	1:30:00 PM	8.436	8.448			N/A
10/23/2018	GBPDKK	3:30:00 PM	8.46	8.471			N/A
10/23/2018	GBPHKD	9:30:00 AM	10.1516	10.1547			N/A
10/23/2018	GBPHKD	11:30:00 AM	10.1793	10.1837			N/A
10/23/2018	GBPHKD	1:30:00 PM	10.1774	10.1815			N/A
10/23/2018	GBPHKD	3:30:00 PM	10.2019	10.2058			N/A
10/23/2018	GBPHUF	9:30:00 AM	365.45	365.86			N/A

10/23/2018	GBPHUF	11:30:00 AM	365.37	365.77			N/A
10/23/2018	GBPHUF	1:30:00 PM	364.76	365.21			N/A
10/23/2018	GBPHUF	3:30:00 PM	365.83	366.31			N/A
10/23/2018	GBPJPY	9:30:00 AM	145.669	145.651	200	200	N/A
10/23/2018	GBPJPY	11:30:00 AM	145.845	145.855			N/A
10/23/2018	GBPJPY	1:30:00 PM	145.853	145.823			N/A
10/23/2018	GBPJPY	3:30:00 PM	146.012	146.009		200	N/A
10/23/2018	GBPMXN	9:30:00 AM	25.1323	25.1457			N/A
10/23/2018	GBPMXN	11:30:00 AM	25.1582	25.1704			N/A
10/23/2018	GBPMXN	1:30:00 PM	25.1467	25.1542			N/A
10/23/2018	GBPMXN	3:30:00 PM	25.2239	25.2347			N/A
10/23/2018	GBPNOK	9:30:00 AM	10.7271	10.737			N/A
10/23/2018	GBPNOK	11:30:00 AM	10.7457	10.7529			N/A
10/23/2018	GBPNOK	1:30:00 PM	10.7462	10.7566			N/A
10/23/2018	GBPNOK	3:30:00 PM	10.7796	10.7906			N/A
10/23/2018	GBPNZD	9:30:00 AM	1.97899	1.97936			N/A
10/23/2018	GBPNZD	11:30:00 AM	1.97905	1.97934			N/A
10/23/2018	GBPNZD	1:30:00 PM	1.97805	1.97855			N/A
10/23/2018	GBPNZD	3:30:00 PM	1.98484	1.98543			N/A
10/23/2018	GBPPLN	9:30:00 AM	4.8641	4.8643			N/A
10/23/2018	GBPPLN	11:30:00 AM	4.8678	4.8685			N/A
10/23/2018	GBPPLN	1:30:00 PM	4.8624	4.8635			N/A
10/23/2018	GBPPLN	3:30:00 PM	4.8717	4.8732			N/A
10/23/2018	GBPSEK	9:30:00 AM	11.6963	11.7042			N/A
10/23/2018	GBPSEK	11:30:00 AM	11.7044	11.7105			N/A
10/23/2018	GBPSEK	1:30:00 PM	11.7021	11.7103			N/A
10/23/2018	GBPSEK	3:30:00 PM	11.7581	11.7651			N/A
10/23/2018	GBPSGD	9:30:00 AM	1.7884	1.7891			N/A
10/23/2018	GBPSGD	11:30:00 AM	1.7906	1.7913			N/A
10/23/2018	GBPSGD	1:30:00 PM	1.7897	1.7904			N/A
10/23/2018	GBPSGD	3:30:00 PM	1.7942	1.7948			N/A
10/23/2018	GBPUSD	9:30:00 AM	1.29562	1.29548			N/A
10/23/2018	GBPUSD	11:30:00 AM	1.29897	1.29873			N/A
10/23/2018	GBPUSD	1:30:00 PM	1.29876	1.2986			N/A
10/23/2018	GBPUSD	3:30:00 PM	1.30174	1.3016			N/A
10/23/2018	GBPZAR	9:30:00 AM	18.6371	18.6557			N/A
10/23/2018	GBPZAR	11:30:00 AM	18.6616	18.6747			N/A
10/23/2018	GBPZAR	1:30:00 PM	18.6491	18.6668			N/A
10/23/2018	GBPZAR	3:30:00 PM	18.6728	18.6942			N/A
10/23/2018	GOLD	9:30:00 AM	1227.25	1227.25			N/A
10/23/2018	GOLD	11:30:00 AM	1235.94	1235.68			N/A
10/23/2018	GOLD	1:30:00 PM	1234.08	1234.18			N/A
10/23/2018	GOLD	3:30:00 PM	1238.77	1238.74			N/A
10/23/2018	HKDJPY	9:30:00 AM					N/A
10/23/2018	HKDJPY	11:30:00 AM					N/A
10/23/2018	HKDJPY	1:30:00 PM	14.33	14.34			N/A
10/23/2018	HKDJPY	3:30:00 PM					N/A
10/23/2018	HUFJPY	9:30:00 AM	0.3985	0.3989			N/A
10/23/2018	HUFJPY	11:30:00 AM	0.3993	0.3995			N/A
10/23/2018	HUFJPY	1:30:00 PM	0.3997	0.4			N/A

10/23/2018	HUFJPY	3:30:00 PM	0.3989	0.3993			N/A
10/23/2018	MXNJPY	9:30:00 AM					N/A
10/23/2018	MXNJPY	11:30:00 AM	5.8	5.81			N/A
10/23/2018	MXNJPY	1:30:00 PM					N/A
10/23/2018	MXNJPY	3:30:00 PM					N/A
10/23/2018	NOKJPY	9:30:00 AM	13.57	13.6			N/A
10/23/2018	NOKJPY	11:30:00 AM					N/A
10/23/2018	NOKJPY	1:30:00 PM	13.55	13.59			N/A
10/23/2018	NOKJPY	3:30:00 PM					N/A
10/23/2018	NZDCAD	9:30:00 AM	0.85766	0.85826			N/A
10/23/2018	NZDCAD	11:30:00 AM	0.85885	0.85946			N/A
10/23/2018	NZDCAD	1:30:00 PM	0.85958	0.86018			N/A
10/23/2018	NZDCAD	3:30:00 PM	0.85935	0.85997			N/A
10/23/2018	NZDCHF	9:30:00 AM	0.65209	0.65271			N/A
10/23/2018	NZDCHF	11:30:00 AM	0.65349	0.65412			N/A
10/23/2018	NZDCHF	1:30:00 PM	0.65258	0.65329			N/A
10/23/2018	NZDCHF	3:30:00 PM	0.6527	0.65337			N/A
10/23/2018	NZDCZK	9:30:00 AM	14.757	14.768			N/A
10/23/2018	NZDCZK	11:30:00 AM	14.777	14.789			N/A
10/23/2018	NZDCZK	1:30:00 PM	14.758	14.77			N/A
10/23/2018	NZDCZK	3:30:00 PM	14.743	14.755			N/A
10/23/2018	NZDDKK	9:30:00 AM					N/A
10/23/2018	NZDDKK	11:30:00 AM					N/A
10/23/2018	NZDDKK	1:30:00 PM	4.265	4.268			N/A
10/23/2018	NZDDKK	3:30:00 PM					N/A
10/23/2018	NZDHKD	9:30:00 AM	5.1281	5.13			N/A
10/23/2018	NZDHKD	11:30:00 AM	5.1418	5.1447			N/A
10/23/2018	NZDHKD	1:30:00 PM	5.1435	5.1463			N/A
10/23/2018	NZDHKD	3:30:00 PM	5.1375	5.1404			N/A
10/23/2018	NZDHUF	9:30:00 AM	184.59	184.85			N/A
10/23/2018	NZDHUF	11:30:00 AM	184.54	184.84			N/A
10/23/2018	NZDHUF	1:30:00 PM	184.35	184.63			N/A
10/23/2018	NZDHUF	3:30:00 PM	184.23	184.53			N/A
10/23/2018	NZDJPY	9:30:00 AM	73.575	73.612			N/A
10/23/2018	NZDJPY	11:30:00 AM	73.662	73.715			N/A
10/23/2018	NZDJPY	1:30:00 PM	73.692	73.738			N/A
10/23/2018	NZDJPY	3:30:00 PM	73.521	73.573			N/A
10/23/2018	NZDMXN	9:30:00 AM	12.6969	12.7021			N/A
10/23/2018	NZDMXN	11:30:00 AM	12.7115	12.7131			N/A
10/23/2018	NZDMXN	1:30:00 PM	12.7103	12.7126			N/A
10/23/2018	NZDMXN	3:30:00 PM	12.7046	12.7091			N/A
10/23/2018	NZDNOK	9:30:00 AM	5.4184	5.421			N/A
10/23/2018	NZDNOK	11:30:00 AM	5.4266	5.4296			N/A
10/23/2018	NZDNOK	1:30:00 PM	5.4308	5.4347			N/A
10/23/2018	NZDNOK	3:30:00 PM	5.4286	5.4324			N/A
10/23/2018	NZDPLN	9:30:00 AM	2.4558	2.4566			N/A
10/23/2018	NZDPLN	11:30:00 AM	2.4579	2.4593			N/A
10/23/2018	NZDPLN	1:30:00 PM	2.4567	2.458			N/A
10/23/2018	NZDPLN	3:30:00 PM	2.4529	2.4543			N/A
10/23/2018	NZDSEK	9:30:00 AM	5.9062	5.9123			N/A

10/23/2018	NZDSEK	11:30:00 AM	5.909	5.9156			N/A
10/23/2018	NZDSEK	1:30:00 PM	5.9114	5.9182			N/A
10/23/2018	NZDSEK	3:30:00 PM	5.9187	5.9255			N/A
10/23/2018	NZDSGD	9:30:00 AM	0.9037	0.9043			N/A
10/23/2018	NZDSGD	11:30:00 AM	0.9048	0.9053			N/A
10/23/2018	NZDSGD	1:30:00 PM	0.9047	0.9053			N/A
10/23/2018	NZDSGD	3:30:00 PM	0.9038	0.9044			N/A
10/23/2018	NZDUSD	9:30:00 AM	0.65452	0.65435			N/A
10/23/2018	NZDUSD	11:30:00 AM	0.6562	0.65613			N/A
10/23/2018	NZDUSD	1:30:00 PM	0.65633	0.65633			N/A
10/23/2018	NZDUSD	3:30:00 PM	0.65559	0.65552			N/A
10/23/2018	NZDZAR	9:30:00 AM	9.4105	9.4215			N/A
10/23/2018	NZDZAR	11:30:00 AM	9.4225	9.4296			N/A
10/23/2018	NZDZAR	1:30:00 PM	9.4187	9.4324			N/A
10/23/2018	NZDZAR	3:30:00 PM	9.3999	9.4138			N/A
10/23/2018	SEKJPY	9:30:00 AM					N/A
10/23/2018	SEKJPY	11:30:00 AM					N/A
10/23/2018	SEKJPY	1:30:00 PM					N/A
10/23/2018	SEKJPY	3:30:00 PM	12.42	12.43			N/A
10/23/2018	SGDJPY	9:30:00 AM	81.41	81.43			N/A
10/23/2018	SGDJPY	11:30:00 AM	81.41	81.43			N/A
10/23/2018	SGDJPY	1:30:00 PM	81.45	81.45			N/A
10/23/2018	SGDJPY	3:30:00 PM	81.34	81.36			N/A
10/23/2018	SILVER	9:30:00 AM	14.38	14.74			N/A
10/23/2018	SILVER	11:30:00 AM	14.57	14.93			N/A
10/23/2018	SILVER	1:30:00 PM	14.52	14.89			N/A
10/23/2018	SILVER	3:30:00 PM	14.6	14.96			N/A
10/23/2018	USDCAD	9:30:00 AM	1.31086	1.31078			N/A
10/23/2018	USDCAD	11:30:00 AM	1.30923	1.30922			N/A
10/23/2018	USDCAD	1:30:00 PM	1.30994	1.30984			N/A
10/23/2018	USDCAD	3:30:00 PM	1.31104	1.31117			N/A
10/23/2018	USDCHF	9:30:00 AM	0.99665	0.99672			N/A
10/23/2018	USDCHF	11:30:00 AM	0.9963	0.99619			N/A
10/23/2018	USDCHF	1:30:00 PM	0.99462	0.99465			N/A
10/23/2018	USDCHF	3:30:00 PM	0.99565	0.9962			N/A
10/23/2018	USDCZK	9:30:00 AM	22.547	22.568			N/A
10/23/2018	USDCZK	11:30:00 AM	22.52	22.541			N/A
10/23/2018	USDCZK	1:30:00 PM	22.482	22.505			N/A
10/23/2018	USDCZK	3:30:00 PM	22.489	22.512			N/A
10/23/2018	USDDKK	9:30:00 AM	6.5166	6.5203			N/A
10/23/2018	USDDKK	11:30:00 AM	6.508	6.5126			N/A
10/23/2018	USDDKK	1:30:00 PM	6.5002	6.5048			N/A
10/23/2018	USDDKK	3:30:00 PM	6.5039	6.5081			N/A
10/23/2018	USDHKD	9:30:00 AM					N/A
10/23/2018	USDHKD	11:30:00 AM	7.8392	7.8397			N/A
10/23/2018	USDHKD	1:30:00 PM					N/A
10/23/2018	USDHKD	3:30:00 PM					N/A
10/23/2018	USDHUF	9:30:00 AM	282.24	282.56			N/A
10/23/2018	USDHUF	11:30:00 AM	281.33	281.77			N/A
10/23/2018	USDHUF	1:30:00 PM	280.93	281.37			N/A

10/23/2018	USDHUF	3:30:00 PM	281.13	281.55			N/A
10/23/2018	USDJPY	9:30:00 AM	112.456	112.428			N/A
10/23/2018	USDJPY	11:30:00 AM	112.291	112.288			N/A
10/23/2018	USDJPY	1:30:00 PM	112.318	112.276			N/A
10/23/2018	USDJPY	3:30:00 PM	112.188	112.17			N/A
10/23/2018	USDMXN	9:30:00 AM	19.406	19.413			N/A
10/23/2018	USDMXN	11:30:00 AM	19.383	19.38			N/A
10/23/2018	USDMXN	1:30:00 PM	19.371	19.371			N/A
10/23/2018	USDMXN	3:30:00 PM	19.384	19.392			N/A
10/23/2018	USDNOK	9:30:00 AM	8.2811	8.289			N/A
10/23/2018	USDNOK	11:30:00 AM	8.2735	8.2802			N/A
10/23/2018	USDNOK	1:30:00 PM	8.2761	8.2836			N/A
10/23/2018	USDNOK	3:30:00 PM	8.2831	8.291			N/A
10/23/2018	USDPLN	9:30:00 AM	3.7545	3.7546			N/A
10/23/2018	USDPLN	11:30:00 AM	3.7475	3.7485			N/A
10/23/2018	USDPLN	1:30:00 PM	3.7446	3.7448			N/A
10/23/2018	USDPLN	3:30:00 PM	3.7431	3.7437			N/A
10/23/2018	USDRUR	9:30:00 AM					N/A
10/23/2018	USDRUR	11:30:00 AM	65.092	65.482			N/A
10/23/2018	USDRUR	1:30:00 PM	65.138	65.535			N/A
10/23/2018	USDRUR	3:30:00 PM	65.174	65.551			N/A
10/23/2018	USDSEK	9:30:00 AM	9.0279	9.0313			N/A
10/23/2018	USDSEK	11:30:00 AM	9.0108	9.0138			N/A
10/23/2018	USDSEK	1:30:00 PM	9.0106	9.0143			N/A
10/23/2018	USDSEK	3:30:00 PM	9.0323	9.037			N/A
10/23/2018	USDSGD	9:30:00 AM	1.3805	1.3808			N/A
10/23/2018	USDSGD	11:30:00 AM	1.3787	1.3788			N/A
10/23/2018	USDSGD	1:30:00 PM	1.3782	1.3785			N/A
10/23/2018	USDSGD	3:30:00 PM	1.3784	1.3788			N/A
10/23/2018	USDZAR	9:30:00 AM	14.3858	14.3989			N/A
10/23/2018	USDZAR	11:30:00 AM	14.3719	14.3749			N/A
10/23/2018	USDZAR	1:30:00 PM	14.3633	14.3717			N/A
10/23/2018	USDZAR	3:30:00 PM	14.3484	14.3582			N/A
10/23/2018	XAUUSD	9:30:00 AM	1227.25	1227.28			N/A
10/23/2018	XAUUSD	11:30:00 AM	1235.94	1235.68			N/A
10/23/2018	XAUUSD	1:30:00 PM	1234.08	1234.18			N/A
10/23/2018	XAUUSD	3:30:00 PM	1238.77	1238.73			N/A
10/23/2018	ZARJPY	9:30:00 AM					N/A
10/23/2018	ZARJPY	11:30:00 AM	7.75	7.79			N/A
10/23/2018	ZARJPY	1:30:00 PM					N/A
10/23/2018	ZARJPY	3:30:00 PM	7.77	7.81			N/A
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10/24/2018	#ZNGA	3:30:00 PM					N/A
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10/24/2018	AUDCAD	11:30:00 AM	0.92702	0.92761			N/A
10/24/2018	AUDCAD	1:30:00 PM	0.92816	0.92877			N/A
10/24/2018	AUDCAD	3:30:00 PM	0.92709	0.92764			N/A
10/24/2018	AUDCHF	9:30:00 AM	0.70622	0.70687			N/A
10/24/2018	AUDCHF	11:30:00 AM	0.70576	0.70619			N/A
10/24/2018	AUDCHF	1:30:00 PM	0.7066	0.70727			N/A
10/24/2018	AUDCHF	3:30:00 PM	0.70688	0.70746			N/A
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10/24/2018	AUDCZK	11:30:00 AM					N/A
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10/24/2018	AUDCZK	3:30:00 PM	16.045	16.058			N/A
10/24/2018	AUDDKK	9:30:00 AM	4.6184	4.6229			N/A
10/24/2018	AUDDKK	11:30:00 AM	4.6244	4.6279			N/A
10/24/2018	AUDDKK	1:30:00 PM	4.6357	4.6398			N/A
10/24/2018	AUDDKK	3:30:00 PM	4.6372	4.6411			N/A
10/24/2018	AUDHKD	9:30:00 AM	5.5627	5.5666			N/A
10/24/2018	AUDHKD	11:30:00 AM					N/A
10/24/2018	AUDHKD	1:30:00 PM	5.5568	5.5595			N/A
10/24/2018	AUDHKD	3:30:00 PM	5.5527	5.5558			N/A
10/24/2018	AUDHUF	9:30:00 AM	199.76	199.99			N/A
10/24/2018	AUDHUF	11:30:00 AM					N/A
10/24/2018	AUDHUF	1:30:00 PM	200.54	200.7			N/A
10/24/2018	AUDHUF	3:30:00 PM	200.83	201.04			N/A
10/24/2018	AUDJPY	9:30:00 AM	79.864	79.922			N/A
10/24/2018	AUDJPY	11:30:00 AM	79.666	79.703			N/A
10/24/2018	AUDJPY	1:30:00 PM	79.811	79.86			N/A
10/24/2018	AUDJPY	3:30:00 PM	79.796	79.845			N/A
10/24/2018	AUDMXN	9:30:00 AM	13.6799	13.6882			N/A
10/24/2018	AUDMXN	11:30:00 AM					N/A
10/24/2018	AUDMXN	1:30:00 PM	13.6727	13.6796			N/A
10/24/2018	AUDMXN	3:30:00 PM	13.6985	13.7072			N/A
10/24/2018	AUDNOK	9:30:00 AM	5.8761	5.8819			N/A
10/24/2018	AUDNOK	11:30:00 AM					N/A
10/24/2018	AUDNOK	1:30:00 PM	5.8962	5.9013			N/A
10/24/2018	AUDNOK	3:30:00 PM	5.8971	5.9025			N/A
10/24/2018	AUDNZD	9:30:00 AM	1.08221	1.0829			N/A
10/24/2018	AUDNZD	11:30:00 AM	1.0815	1.08204			N/A
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10/24/2018	AUDNZD	3:30:00 PM	1.08239	1.083			N/A
10/24/2018	AUDPLN	9:30:00 AM	2.6597	2.6623			N/A
10/24/2018	AUDPLN	11:30:00 AM	2.6658	2.6687			N/A
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10/24/2018	AUDSEK	11:30:00 AM	6.4235	6.4262			N/A
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10/24/2018	AUDSEK	3:30:00 PM	6.4413	6.4438			N/A
10/24/2018	AUDSGD	9:30:00 AM	0.9781	0.9784			N/A
10/24/2018	AUDSGD	11:30:00 AM	0.9766	0.9769			N/A
10/24/2018	AUDSGD	1:30:00 PM	0.9783	0.9785			N/A
10/24/2018	AUDSGD	3:30:00 PM	0.9775	0.9779			N/A
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10/24/2018	AUDUSD	11:30:00 AM	0.70842	0.7083			N/A
10/24/2018	AUDUSD	1:30:00 PM	0.70907	0.70901			N/A
10/24/2018	AUDUSD	3:30:00 PM	0.70861	0.70846			N/A
10/24/2018	AUDZAR	9:30:00 AM	10.113	10.1259			N/A
10/24/2018	AUDZAR	11:30:00 AM	10.0911	10.0994			N/A
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10/24/2018	AUDZAR	3:30:00 PM	10.1881	10.1978			N/A
10/24/2018	CADCHF	9:30:00 AM	0.76037	0.76097			N/A
10/24/2018	CADCHF	11:30:00 AM	0.76108	0.76157			N/A
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10/24/2018	CADCHF	3:30:00 PM	0.76233	0.76292			N/A
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10/24/2018	CADCZK	1:30:00 PM	17.278	17.295			N/A
10/24/2018	CADCZK	3:30:00 PM	17.306	17.321			N/A
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10/24/2018	CADDKK	1:30:00 PM					N/A
10/24/2018	CADDKK	3:30:00 PM	5.003	5.006			N/A
10/24/2018	CADHKD	9:30:00 AM	5.9916	5.9954			N/A
10/24/2018	CADHKD	11:30:00 AM					N/A
10/24/2018	CADHKD	1:30:00 PM	5.9869	5.9908			N/A
10/24/2018	CADHKD	3:30:00 PM	5.9896	5.9927			N/A
10/24/2018	CADHUF	9:30:00 AM	215.17	215.33			N/A
10/24/2018	CADHUF	11:30:00 AM					N/A
10/24/2018	CADHUF	1:30:00 PM	216.11	216.16			N/A
10/24/2018	CADHUF	3:30:00 PM	216.67	216.81			N/A
10/24/2018	CADJPY	9:30:00 AM	85.995	86.047			N/A
10/24/2018	CADJPY	11:30:00 AM	85.907	85.956			N/A
10/24/2018	CADJPY	1:30:00 PM	85.972	86.013			N/A
10/24/2018	CADJPY	3:30:00 PM	86.04	86.1			N/A
10/24/2018	CADMXN	9:30:00 AM	14.7367	14.7454			N/A
10/24/2018	CADMXN	11:30:00 AM	14.7819	14.7891			N/A
10/24/2018	CADMXN	1:30:00 PM	14.7309	14.7401			N/A
10/24/2018	CADMXN	3:30:00 PM	14.7769	14.786			N/A
10/24/2018	CADNOK	9:30:00 AM	6.3291	6.334			N/A
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10/24/2018	CADNOK	1:30:00 PM	6.353	6.3579			N/A
10/24/2018	CADNOK	3:30:00 PM	6.3615	6.366			N/A
10/24/2018	CADPLN	9:30:00 AM	2.8641	2.8651			N/A

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10/24/2018	CADPLN	1:30:00 PM	2.8807	2.8825			N/A
10/24/2018	CADPLN	3:30:00 PM	2.8853	2.8873			N/A
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10/24/2018	CADSEK	11:30:00 AM					N/A
10/24/2018	CADSEK	1:30:00 PM	6.9263	6.9302			N/A
10/24/2018	CADSEK	3:30:00 PM	6.9466	6.9483			N/A
10/24/2018	CADSGD	9:30:00 AM	1.0533	1.0536			N/A
10/24/2018	CADSGD	11:30:00 AM					N/A
10/24/2018	CADSGD	1:30:00 PM	1.0538	1.0541			N/A
10/24/2018	CADSGD	3:30:00 PM	1.0546	1.0549			N/A
10/24/2018	CADZAR	9:30:00 AM	10.8843	10.9011			N/A
10/24/2018	CADZAR	11:30:00 AM					N/A
10/24/2018	CADZAR	1:30:00 PM	10.8177	10.8309			N/A
10/24/2018	CADZAR	3:30:00 PM	10.9846	10.9926			N/A
10/24/2018	CHFCZK	9:30:00 AM	22.589	22.604			N/A
10/24/2018	CHFCZK	11:30:00 AM					N/A
10/24/2018	CHFCZK	1:30:00 PM	22.697	22.713			N/A
10/24/2018	CHFCZK	3:30:00 PM	22.698	22.709			N/A
10/24/2018	CHFDKK	9:30:00 AM					N/A
10/24/2018	CHFDKK	11:30:00 AM					N/A
10/24/2018	CHFDKK	1:30:00 PM	6.56	6.564			N/A
10/24/2018	CHFDKK	3:30:00 PM	6.559	6.562			N/A
10/24/2018	CHFHKD	9:30:00 AM	7.8768	7.8802			N/A
10/24/2018	CHFHKD	11:30:00 AM					N/A
10/24/2018	CHFHKD	1:30:00 PM	7.8643	7.8674			N/A
10/24/2018	CHFHKD	3:30:00 PM	7.8555	7.8571			N/A
10/24/2018	CHFHUF	9:30:00 AM	282.8	283.18			N/A
10/24/2018	CHFHUF	11:30:00 AM					N/A
10/24/2018	CHFHUF	1:30:00 PM	283.76	284.02			N/A
10/24/2018	CHFHUF	3:30:00 PM	284.03	284.37			N/A
10/24/2018	CHFJPY	9:30:00 AM	113.051	113.089			N/A
10/24/2018	CHFJPY	11:30:00 AM	112.842	112.856			N/A
10/24/2018	CHFJPY	1:30:00 PM	112.915	112.925			N/A
10/24/2018	CHFJPY	3:30:00 PM	112.847	112.849			N/A
10/24/2018	CHFMXN	9:30:00 AM	19.3682	19.3819			N/A
10/24/2018	CHFMXN	11:30:00 AM					N/A
10/24/2018	CHFMXN	1:30:00 PM	19.3465	19.359			N/A
10/24/2018	CHFMXN	3:30:00 PM	19.3767	19.3878			N/A
10/24/2018	CHFNOK	9:30:00 AM	8.3201	8.3277			N/A
10/24/2018	CHFNOK	11:30:00 AM	8.3393	8.3445			N/A
10/24/2018	CHFNOK	1:30:00 PM	8.3437	8.3515			N/A
10/24/2018	CHFNOK	3:30:00 PM	8.3414	8.3481			N/A
10/24/2018	CHFPLN	9:30:00 AM	3.7653	3.7677			N/A
10/24/2018	CHFPLN	11:30:00 AM	3.7767	3.7799			N/A
10/24/2018	CHFPLN	1:30:00 PM	3.7838	3.7861			N/A
10/24/2018	CHFPLN	3:30:00 PM	3.7832	3.7864			N/A
10/24/2018	CHFSEK	9:30:00 AM	9.0707	9.0727			N/A
10/24/2018	CHFSEK	11:30:00 AM	9.103	9.1022			N/A
10/24/2018	CHFSEK	1:30:00 PM	9.0996	9.1026			N/A

10/24/2018	CHFSEK	3:30:00 PM	9.1105	9.1127			N/A
10/24/2018	CHFSGD	9:30:00 AM	1.3846	1.3849			N/A
10/24/2018	CHFSGD	11:30:00 AM	1.3833	1.3836			N/A
10/24/2018	CHFSGD	1:30:00 PM	1.384	1.3843			N/A
10/24/2018	CHFSGD	3:30:00 PM	1.3826	1.3828			N/A
10/24/2018	CHFZAR	9:30:00 AM	14.3143	14.3269			N/A
10/24/2018	CHFZAR	11:30:00 AM					N/A
10/24/2018	CHFZAR	1:30:00 PM	14.2113	14.2218			N/A
10/24/2018	CHFZAR	3:30:00 PM	14.4066	14.4113			N/A
10/24/2018	CZKJPY	9:30:00 AM	5.004	5.008			N/A
10/24/2018	CZKJPY	11:30:00 AM					N/A
10/24/2018	CZKJPY	1:30:00 PM					N/A
10/24/2018	CZKJPY	3:30:00 PM	4.97	4.974			N/A
10/24/2018	DKKJPY	9:30:00 AM					N/A
10/24/2018	DKKJPY	11:30:00 AM					N/A
10/24/2018	DKKJPY	1:30:00 PM	17.22	17.23			N/A
10/24/2018	DKKJPY	3:30:00 PM	17.21	17.22			N/A
10/24/2018	EURAUD	9:30:00 AM	1.61435	1.61413			N/A
10/24/2018	EURAUD	11:30:00 AM	1.6125	1.61204			N/A
10/24/2018	EURAUD	1:30:00 PM	1.60836	1.60817			N/A
10/24/2018	EURAUD	3:30:00 PM	1.60779	1.60751			N/A
10/24/2018	EURCAD	9:30:00 AM	1.49948	1.49988			N/A
10/24/2018	EURCAD	11:30:00 AM	1.49543	1.49567			N/A
10/24/2018	EURCAD	1:30:00 PM	1.49337	1.49391			N/A
10/24/2018	EURCAD	3:30:00 PM	1.49134	1.49147			N/A
10/24/2018	EURCHF	9:30:00 AM	1.14069	1.1407			N/A
10/24/2018	EURCHF	11:30:00 AM	1.13857	1.13841			N/A
10/24/2018	EURCHF	1:30:00 PM	1.1371	1.13712			N/A
10/24/2018	EURCHF	3:30:00 PM	1.13708	1.1375			N/A
10/24/2018	EURCZK	9:30:00 AM	25.753	25.791			N/A
10/24/2018	EURCZK	11:30:00 AM	25.789	25.829			N/A
10/24/2018	EURCZK	1:30:00 PM	25.8	25.837			N/A
10/24/2018	EURCZK	3:30:00 PM	25.803	25.84			N/A
10/24/2018	EURDKK	9:30:00 AM	7.4595	7.4603			N/A
10/24/2018	EURDKK	11:30:00 AM	7.4597	7.4609			N/A
10/24/2018	EURDKK	1:30:00 PM	7.4596	7.4609			N/A
10/24/2018	EURDKK	3:30:00 PM	7.4596	7.4609			N/A
10/24/2018	EURGBP	9:30:00 AM	0.88333	0.88332			N/A
10/24/2018	EURGBP	11:30:00 AM	0.88262	0.88246			N/A
10/24/2018	EURGBP	1:30:00 PM	0.8834	0.88343			N/A
10/24/2018	EURGBP	3:30:00 PM	0.88185	0.88181			N/A
10/24/2018	EURHKD	9:30:00 AM	8.9838	8.9881			N/A
10/24/2018	EURHKD	11:30:00 AM	8.955	8.9576			N/A
10/24/2018	EURHKD	1:30:00 PM	8.9411	8.946			N/A
10/24/2018	EURHKD	3:30:00 PM	8.932	8.9337			N/A
10/24/2018	EURHUF	9:30:00 AM	322.48	323.2			N/A
10/24/2018	EURHUF	11:30:00 AM	322.51	323.25			N/A
10/24/2018	EURHUF	1:30:00 PM	322.52	323.11			N/A
10/24/2018	EURHUF	3:30:00 PM	322.88	323.61			N/A
10/24/2018	EURJPY	9:30:00 AM	128.996	128.98			N/A

10/24/2018	EURJPY	11:30:00 AM	128.523	128.48			N/A
10/24/2018	EURJPY	1:30:00 PM	128.439	128.398			N/A
10/24/2018	EURJPY	3:30:00 PM	128.374	128.326			N/A
10/24/2018	EURMXN	9:30:00 AM	22.0957	22.1117			N/A
10/24/2018	EURMXN	11:30:00 AM	22.1052	22.1121			N/A
10/24/2018	EURMXN	1:30:00 PM	22.0004	22.0152			N/A
10/24/2018	EURMXN	3:30:00 PM	22.0377	22.0517			N/A
10/24/2018	EURNOK	9:30:00 AM	9.4887	9.5014			N/A
10/24/2018	EURNOK	11:30:00 AM	9.4917	9.5028			N/A
10/24/2018	EURNOK	1:30:00 PM	9.4865	9.4986			N/A
10/24/2018	EURNOK	3:30:00 PM	9.4847	9.4965			N/A
10/24/2018	EURNZD	9:30:00 AM	1.74756	1.74831			N/A
10/24/2018	EURNZD	11:30:00 AM	1.74423	1.74474			N/A
10/24/2018	EURNZD	1:30:00 PM	1.74227	1.74285			N/A
10/24/2018	EURNZD	3:30:00 PM	1.741	1.74143			N/A
10/24/2018	EURPLN	9:30:00 AM	4.2955	4.2971			N/A
10/24/2018	EURPLN	11:30:00 AM	4.2995	4.3022			N/A
10/24/2018	EURPLN	1:30:00 PM	4.3028	4.3051			N/A
10/24/2018	EURPLN	3:30:00 PM	4.3029	4.3057			N/A
10/24/2018	EURRUR	9:30:00 AM					N/A
10/24/2018	EURRUR	11:30:00 AM	74.771	75.194			N/A
10/24/2018	EURRUR	1:30:00 PM	74.521	74.954			N/A
10/24/2018	EURRUR	3:30:00 PM	74.204	74.615			N/A
10/24/2018	EURSEK	9:30:00 AM	10.3447	10.3487			N/A
10/24/2018	EURSEK	11:30:00 AM	10.3626	10.3635			N/A
10/24/2018	EURSEK	1:30:00 PM	10.3457	10.3502			N/A
10/24/2018	EURSEK	3:30:00 PM	10.3592	10.3637			N/A
10/24/2018	EURSGD	9:30:00 AM	1.5792	1.5799			N/A
10/24/2018	EURSGD	11:30:00 AM	1.5748	1.5753			N/A
10/24/2018	EURSGD	1:30:00 PM	1.5735	1.5743			N/A
10/24/2018	EURSGD	3:30:00 PM	1.5721	1.5726			N/A
10/24/2018	EURUSD	9:30:00 AM	1.14615	1.14608			N/A
10/24/2018	EURUSD	11:30:00 AM	1.1422	1.14188			N/A
10/24/2018	EURUSD	1:30:00 PM	1.14028	1.14031			N/A
10/24/2018	EURUSD	3:30:00 PM	1.1393	1.13888			N/A
10/24/2018	EURZAR	9:30:00 AM	16.331	16.3451			N/A
10/24/2018	EURZAR	11:30:00 AM	16.2779	16.283			N/A
10/24/2018	EURZAR	1:30:00 PM	16.1616	16.176			N/A
10/24/2018	EURZAR	3:30:00 PM	16.3881	16.3968			N/A
10/24/2018	GBPAUD	9:30:00 AM	1.82744	1.82805			N/A
10/24/2018	GBPAUD	11:30:00 AM	1.82704	1.82734			N/A
10/24/2018	GBPAUD	1:30:00 PM	1.82056	1.8212			N/A
10/24/2018	GBPAUD	3:30:00 PM	1.82333	1.82387			N/A
10/24/2018	GBPCAD	9:30:00 AM	1.69727	1.69794			N/A
10/24/2018	GBPCAD	11:30:00 AM	1.69407	1.69457			N/A
10/24/2018	GBPCAD	1:30:00 PM	1.69027	1.69093			N/A
10/24/2018	GBPCAD	3:30:00 PM	1.69072	1.69149			N/A
10/24/2018	GBPCHF	9:30:00 AM	1.291	1.29174			N/A
10/24/2018	GBPCHF	11:30:00 AM	1.28982	1.29022			N/A
10/24/2018	GBPCHF	1:30:00 PM	1.28692	1.28753			N/A

10/24/2018	GBPCHF	3:30:00 PM	1.28961	1.28975			N/A
10/24/2018	GBPCZK	9:30:00 AM	29.162	29.182			N/A
10/24/2018	GBPCZK	11:30:00 AM					N/A
10/24/2018	GBPCZK	1:30:00 PM	29.209	29.229			N/A
10/24/2018	GBPCZK	3:30:00 PM	29.264	29.284			N/A
10/24/2018	GBPDKK	9:30:00 AM	8.442	8.453			N/A
10/24/2018	GBPDKK	11:30:00 AM	8.45	8.459			N/A
10/24/2018	GBPDKK	1:30:00 PM	8.441	8.452			N/A
10/24/2018	GBPDKK	3:30:00 PM	8.456	8.467			N/A
10/24/2018	GBPHKD	9:30:00 AM	10.169	10.1733			N/A
10/24/2018	GBPHKD	11:30:00 AM					N/A
10/24/2018	GBPHKD	1:30:00 PM	10.1203	10.1242			N/A
10/24/2018	GBPHKD	3:30:00 PM	10.1265	10.1312			N/A
10/24/2018	GBPHUF	9:30:00 AM	365.11	365.56			N/A
10/24/2018	GBPHUF	11:30:00 AM					N/A
10/24/2018	GBPHUF	1:30:00 PM	365.15	365.46			N/A
10/24/2018	GBPHUF	3:30:00 PM	366.23	366.64			N/A
10/24/2018	GBPJPY	9:30:00 AM	146.026	146.043	200	200	N/A
10/24/2018	GBPJPY	11:30:00 AM	145.589	145.601			N/A
10/24/2018	GBPJPY	1:30:00 PM	145.371	145.383			N/A
10/24/2018	GBPJPY	3:30:00 PM	145.545	145.564			N/A
10/24/2018	GBPMXN	9:30:00 AM	25.0088	25.019			N/A
10/24/2018	GBPMXN	11:30:00 AM					N/A
10/24/2018	GBPMXN	1:30:00 PM	24.8999	24.9092			N/A
10/24/2018	GBPMXN	3:30:00 PM	24.9841	24.9937			N/A
10/24/2018	GBPNOK	9:30:00 AM	10.7436	10.7543			N/A
10/24/2018	GBPNOK	11:30:00 AM	10.7573	10.7651			N/A
10/24/2018	GBPNOK	1:30:00 PM	10.7403	10.7508			N/A
10/24/2018	GBPNOK	3:30:00 PM	10.7572	10.7672			N/A
10/24/2018	GBPNZD	9:30:00 AM	1.97861	1.9791			N/A
10/24/2018	GBPNZD	11:30:00 AM	1.97645	1.9768			N/A
10/24/2018	GBPNZD	1:30:00 PM	1.97237	1.97271			N/A
10/24/2018	GBPNZD	3:30:00 PM	1.9744	1.97497			N/A
10/24/2018	GBPPLN	9:30:00 AM	4.8633	4.8635			N/A
10/24/2018	GBPPLN	11:30:00 AM	4.8731	4.8737			N/A
10/24/2018	GBPPLN	1:30:00 PM	4.8717	4.8724			N/A
10/24/2018	GBPPLN	3:30:00 PM	4.8809	4.8818			N/A
10/24/2018	GBPSEK	9:30:00 AM	11.7105	11.7171			N/A
10/24/2018	GBPSEK	11:30:00 AM	11.7393	11.7431			N/A
10/24/2018	GBPSEK	1:30:00 PM	11.7097	11.7173			N/A
10/24/2018	GBPSEK	3:30:00 PM	11.7466	11.7535			N/A
10/24/2018	GBPSGD	9:30:00 AM	1.7878	1.7886			N/A
10/24/2018	GBPSGD	11:30:00 AM	1.7845	1.7849			N/A
10/24/2018	GBPSGD	1:30:00 PM	1.7814	1.7819			N/A
10/24/2018	GBPSGD	3:30:00 PM	1.7827	1.7836			N/A
10/24/2018	GBPUSD	9:30:00 AM	1.29765	1.29766			N/A
10/24/2018	GBPUSD	11:30:00 AM	1.29423	1.29395			N/A
10/24/2018	GBPUSD	1:30:00 PM	1.29098	1.2909			N/A
10/24/2018	GBPUSD	3:30:00 PM	1.29193	1.29184			N/A
10/24/2018	GBPZAR	9:30:00 AM	18.4845	18.5079			N/A

10/24/2018	GBPZAR	11:30:00 AM	18.4405	18.4513			N/A
10/24/2018	GBPZAR	1:30:00 PM	18.292	18.314			N/A
10/24/2018	GBPZAR	3:30:00 PM	18.5804	18.5963			N/A
10/24/2018	GOLD	9:30:00 AM	1230.77	1230.75			N/A
10/24/2018	GOLD	11:30:00 AM	1231.5	1231.25			N/A
10/24/2018	GOLD	1:30:00 PM	1230.56	1230.77			N/A
10/24/2018	GOLD	3:30:00 PM	1229.03	1228.69			N/A
10/24/2018	HKDJPY	9:30:00 AM	14.36	14.37			N/A
10/24/2018	HKDJPY	11:30:00 AM					N/A
10/24/2018	HKDJPY	1:30:00 PM					N/A
10/24/2018	HKDJPY	3:30:00 PM					N/A
10/24/2018	HUFJPY	9:30:00 AM	0.3997	0.4			N/A
10/24/2018	HUFJPY	11:30:00 AM					N/A
10/24/2018	HUFJPY	1:30:00 PM	0.398	0.3983			N/A
10/24/2018	HUFJPY	3:30:00 PM	0.3974	0.3977			N/A
10/24/2018	MXNJPY	9:30:00 AM					N/A
10/24/2018	MXNJPY	11:30:00 AM					N/A
10/24/2018	MXNJPY	1:30:00 PM					N/A
10/24/2018	MXNJPY	3:30:00 PM					N/A
10/24/2018	NOKJPY	9:30:00 AM					N/A
10/24/2018	NOKJPY	11:30:00 AM					N/A
10/24/2018	NOKJPY	1:30:00 PM					N/A
10/24/2018	NOKJPY	3:30:00 PM	13.52	13.55			N/A
10/24/2018	NZDCAD	9:30:00 AM	0.85761	0.85821			N/A
10/24/2018	NZDCAD	11:30:00 AM	0.85685	0.85751			N/A
10/24/2018	NZDCAD	1:30:00 PM	0.85681	0.85738			N/A
10/24/2018	NZDCAD	3:30:00 PM	0.85613	0.85674			N/A
10/24/2018	NZDCHF	9:30:00 AM	0.65225	0.65295			N/A
10/24/2018	NZDCHF	11:30:00 AM	0.65234	0.65286			N/A
10/24/2018	NZDCHF	1:30:00 PM	0.65226	0.65286			N/A
10/24/2018	NZDCHF	3:30:00 PM	0.65286	0.65341			N/A
10/24/2018	NZDCZK	9:30:00 AM	14.736	14.747			N/A
10/24/2018	NZDCZK	11:30:00 AM					N/A
10/24/2018	NZDCZK	1:30:00 PM	14.806	14.817			N/A
10/24/2018	NZDCZK	3:30:00 PM	14.819	14.829			N/A
10/24/2018	NZDDKK	9:30:00 AM					N/A
10/24/2018	NZDDKK	11:30:00 AM					N/A
10/24/2018	NZDDKK	1:30:00 PM					N/A
10/24/2018	NZDDKK	3:30:00 PM					N/A
10/24/2018	NZDHKD	9:30:00 AM	5.138	5.1403			N/A
10/24/2018	NZDHKD	11:30:00 AM					N/A
10/24/2018	NZDHKD	1:30:00 PM	5.1297	5.1326			N/A
10/24/2018	NZDHKD	3:30:00 PM	5.1279	5.1301			N/A
10/24/2018	NZDHUF	9:30:00 AM	184.47	184.75			N/A
10/24/2018	NZDHUF	11:30:00 AM					N/A
10/24/2018	NZDHUF	1:30:00 PM	185.1	185.28			N/A
10/24/2018	NZDHUF	3:30:00 PM	185.43	185.7			N/A
10/24/2018	NZDJPY	9:30:00 AM	73.765	73.826			N/A
10/24/2018	NZDJPY	11:30:00 AM	73.632	73.683			N/A
10/24/2018	NZDJPY	1:30:00 PM	73.673	73.729			N/A

10/24/2018	NZDJPY	3:30:00 PM	73.686	73.739			N/A
10/24/2018	NZDMXN	9:30:00 AM	12.6372	12.6415			N/A
10/24/2018	NZDMXN	11:30:00 AM					N/A
10/24/2018	NZDMXN	1:30:00 PM	12.6228	12.6253			N/A
10/24/2018	NZDMXN	3:30:00 PM	12.6518	12.656			N/A
10/24/2018	NZDNOK	9:30:00 AM	5.4276	5.4315			N/A
10/24/2018	NZDNOK	11:30:00 AM					N/A
10/24/2018	NZDNOK	1:30:00 PM	5.4439	5.4468			N/A
10/24/2018	NZDNOK	3:30:00 PM	5.4461	5.4499			N/A
10/24/2018	NZDPLN	9:30:00 AM	2.456	2.4572			N/A
10/24/2018	NZDPLN	11:30:00 AM					N/A
10/24/2018	NZDPLN	1:30:00 PM	2.4685	2.4697			N/A
10/24/2018	NZDPLN	3:30:00 PM	2.4704	2.4718			N/A
10/24/2018	NZDSEK	9:30:00 AM	5.9137	5.9204			N/A
10/24/2018	NZDSEK	11:30:00 AM					N/A
10/24/2018	NZDSEK	1:30:00 PM	5.9328	5.9393			N/A
10/24/2018	NZDSEK	3:30:00 PM	5.9443	5.9511			N/A
10/24/2018	NZDSGD	9:30:00 AM	0.9035	0.9042			N/A
10/24/2018	NZDSGD	11:30:00 AM	0.9028	0.9034			N/A
10/24/2018	NZDSGD	1:30:00 PM	0.9031	0.9037			N/A
10/24/2018	NZDSGD	3:30:00 PM	0.9029	0.9035			N/A
10/24/2018	NZDUSD	9:30:00 AM	0.65569	0.65563			N/A
10/24/2018	NZDUSD	11:30:00 AM	0.65465	0.65463			N/A
10/24/2018	NZDUSD	1:30:00 PM	0.65439	0.65438			N/A
10/24/2018	NZDUSD	3:30:00 PM	0.65419	0.65402			N/A
10/24/2018	NZDZAR	9:30:00 AM	9.3334	9.3487			N/A
10/24/2018	NZDZAR	11:30:00 AM					N/A
10/24/2018	NZDZAR	1:30:00 PM	9.2668	9.28			N/A
10/24/2018	NZDZAR	3:30:00 PM	9.4024	9.4136			N/A
10/24/2018	SEKJPY	9:30:00 AM					N/A
10/24/2018	SEKJPY	11:30:00 AM					N/A
10/24/2018	SEKJPY	1:30:00 PM					N/A
10/24/2018	SEKJPY	3:30:00 PM					N/A
10/24/2018	SGDJPY	9:30:00 AM	81.64	81.66			N/A
10/24/2018	SGDJPY	11:30:00 AM	81.55	81.58			N/A
10/24/2018	SGDJPY	1:30:00 PM	81.57	81.59			N/A
10/24/2018	SGDJPY	3:30:00 PM	81.6	81.62			N/A
10/24/2018	SILVER	9:30:00 AM	14.54	14.92			N/A
10/24/2018	SILVER	11:30:00 AM	14.56	14.93			N/A
10/24/2018	SILVER	1:30:00 PM	14.57	14.93			N/A
10/24/2018	SILVER	3:30:00 PM	14.52	14.88			N/A
10/24/2018	USDCAD	9:30:00 AM	1.30822	1.30826			N/A
10/24/2018	USDCAD	11:30:00 AM	1.30923	1.30925			N/A
10/24/2018	USDCAD	1:30:00 PM	1.30957	1.30958			N/A
10/24/2018	USDCAD	3:30:00 PM	1.30904	1.30906			N/A
10/24/2018	USDCHF	9:30:00 AM	0.99511	0.99512			N/A
10/24/2018	USDCHF	11:30:00 AM	0.99691	0.99669			N/A
10/24/2018	USDCHF	1:30:00 PM	0.99709	0.99707			N/A
10/24/2018	USDCHF	3:30:00 PM	0.99807	0.99852			N/A
10/24/2018	USDCZK	9:30:00 AM	22.475	22.496			N/A

10/24/2018	USDCZK	11:30:00 AM	22.582	22.603			N/A
10/24/2018	USDCZK	1:30:00 PM	22.624	22.648			N/A
10/24/2018	USDCZK	3:30:00 PM	22.655	22.675			N/A
10/24/2018	USDDKK	9:30:00 AM	6.509	6.5138			N/A
10/24/2018	USDDKK	11:30:00 AM	6.5325	6.5363			N/A
10/24/2018	USDDKK	1:30:00 PM	6.5421	6.5474			N/A
10/24/2018	USDDKK	3:30:00 PM	6.5503	6.5532			N/A
10/24/2018	USDHKD	9:30:00 AM	7.8393	7.8398			N/A
10/24/2018	USDHKD	11:30:00 AM					N/A
10/24/2018	USDHKD	1:30:00 PM					N/A
10/24/2018	USDHKD	3:30:00 PM	7.8412	7.8415			N/A
10/24/2018	USDHUF	9:30:00 AM	281.44	281.87			N/A
10/24/2018	USDHUF	11:30:00 AM	282.46	282.87			N/A
10/24/2018	USDHUF	1:30:00 PM	282.91	283.23			N/A
10/24/2018	USDHUF	3:30:00 PM	283.57	283.9			N/A
10/24/2018	USDJPY	9:30:00 AM	112.552	112.532			N/A
10/24/2018	USDJPY	11:30:00 AM	112.514	112.496			N/A
10/24/2018	USDJPY	1:30:00 PM	112.625	112.6			N/A
10/24/2018	USDJPY	3:30:00 PM	112.682	112.675			N/A
10/24/2018	USDMXN	9:30:00 AM	19.28	19.285			N/A
10/24/2018	USDMXN	11:30:00 AM	19.355	19.357			N/A
10/24/2018	USDMXN	1:30:00 PM	19.295	19.299			N/A
10/24/2018	USDMXN	3:30:00 PM	19.348	19.349			N/A
10/24/2018	USDNOK	9:30:00 AM	8.2803	8.2889			N/A
10/24/2018	USDNOK	11:30:00 AM	8.3123	8.319			N/A
10/24/2018	USDNOK	1:30:00 PM	8.3205	8.329			N/A
10/24/2018	USDNOK	3:30:00 PM	8.3285	8.3348			N/A
10/24/2018	USDPLN	9:30:00 AM	3.7478	3.748			N/A
10/24/2018	USDPLN	11:30:00 AM	3.7651	3.7655			N/A
10/24/2018	USDPLN	1:30:00 PM	3.7736	3.7745			N/A
10/24/2018	USDPLN	3:30:00 PM	3.7785	3.7783			N/A
10/24/2018	USDRUR	9:30:00 AM					N/A
10/24/2018	USDRUR	11:30:00 AM	65.535	65.916			N/A
10/24/2018	USDRUR	1:30:00 PM	65.422	65.805			N/A
10/24/2018	USDRUR	3:30:00 PM	65.221	65.569			N/A
10/24/2018	USDSEK	9:30:00 AM	9.0238	9.0268			N/A
10/24/2018	USDSEK	11:30:00 AM	9.07	9.0708			N/A
10/24/2018	USDSEK	1:30:00 PM	9.0698	9.0745			N/A
10/24/2018	USDSEK	3:30:00 PM	9.0933	9.0945			N/A
10/24/2018	USDSGD	9:30:00 AM	1.3778	1.3782			N/A
10/24/2018	USDSGD	11:30:00 AM	1.3788	1.3792			N/A
10/24/2018	USDSGD	1:30:00 PM	1.3799	1.3802			N/A
10/24/2018	USDSGD	3:30:00 PM	1.3801	1.3804			N/A
10/24/2018	USDZAR	9:30:00 AM	14.2465	14.2609			N/A
10/24/2018	USDZAR	11:30:00 AM	14.2506	14.2549			N/A
10/24/2018	USDZAR	1:30:00 PM	14.1718	14.1845			N/A
10/24/2018	USDZAR	3:30:00 PM	14.3847	14.3911			N/A
10/24/2018	XAUUSD	9:30:00 AM	1230.77	1230.8			N/A
10/24/2018	XAUUSD	11:30:00 AM	1231.5	1231.25			N/A
10/24/2018	XAUUSD	1:30:00 PM	1230.56	1230.77			N/A

10/24/2018	XAUUSD	3:30:00 PM	1229.03	1228.69			N/A
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10/24/2018	ZARJPY	11:30:00 AM					N/A
10/24/2018	ZARJPY	1:30:00 PM	7.88	7.9			N/A
10/24/2018	ZARJPY	3:30:00 PM					N/A
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10/25/2018	#ZNGA	3:30:00 PM					N/A
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10/25/2018	AUDCAD	11:30:00 AM	0.92094	0.92119			N/A
10/25/2018	AUDCAD	1:30:00 PM	0.9216	0.92217			N/A
10/25/2018	AUDCAD	3:30:00 PM	0.92497	0.92553			N/A
10/25/2018	AUDCHF	9:30:00 AM	0.70468	0.70529			N/A
10/25/2018	AUDCHF	11:30:00 AM	0.70551	0.70589			N/A
10/25/2018	AUDCHF	1:30:00 PM	0.70642	0.70689			N/A
10/25/2018	AUDCHF	3:30:00 PM	0.70826	0.70894			N/A
10/25/2018	AUDCZK	9:30:00 AM	16.02	16.035			N/A
10/25/2018	AUDCZK	11:30:00 AM	16.017	16.028			N/A
10/25/2018	AUDCZK	1:30:00 PM	16.008	16.018			N/A
10/25/2018	AUDCZK	3:30:00 PM	16.031	16.047			N/A
10/25/2018	AUDDKK	9:30:00 AM	4.6233	4.6274			N/A
10/25/2018	AUDDKK	11:30:00 AM	4.6234	4.6264			N/A
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10/25/2018	AUDDKK	3:30:00 PM	4.6331	4.6374			N/A
10/25/2018	AUDHKD	9:30:00 AM	5.5449	5.5484			N/A
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10/25/2018	AUDHKD	1:30:00 PM	5.5467	5.5489			N/A
10/25/2018	AUDHKD	3:30:00 PM	5.5573	5.5612			N/A
10/25/2018	AUDHUF	9:30:00 AM	200.35	200.53			N/A
10/25/2018	AUDHUF	11:30:00 AM	200.49	200.66			N/A
10/25/2018	AUDHUF	1:30:00 PM	200.78	200.91			N/A
10/25/2018	AUDHUF	3:30:00 PM	200.98	201.2			N/A
10/25/2018	AUDJPY	9:30:00 AM	79.277	79.33			N/A
10/25/2018	AUDJPY	11:30:00 AM	79.38	79.411			N/A
10/25/2018	AUDJPY	1:30:00 PM	79.436	79.492			N/A
10/25/2018	AUDJPY	3:30:00 PM	79.656	79.712			N/A
10/25/2018	AUDMXN	9:30:00 AM	13.8205	13.828			N/A

10/25/2018	AUDMXN	11:30:00 AM	13.8007	13.8068			N/A
10/25/2018	AUDMXN	1:30:00 PM	13.8319	13.8327			N/A
10/25/2018	AUDMXN	3:30:00 PM	13.834	13.8336			N/A
10/25/2018	AUDNOK	9:30:00 AM	5.892	5.8978			N/A
10/25/2018	AUDNOK	11:30:00 AM	5.8855	5.8906			N/A
10/25/2018	AUDNOK	1:30:00 PM	5.8912	5.895			N/A
10/25/2018	AUDNOK	3:30:00 PM	5.8906	5.8963			N/A
10/25/2018	AUDNZD	9:30:00 AM	1.08429	1.08493			N/A
10/25/2018	AUDNZD	11:30:00 AM	1.08413	1.08461			N/A
10/25/2018	AUDNZD	1:30:00 PM	1.08483	1.08549			N/A
10/25/2018	AUDNZD	3:30:00 PM	1.08549	1.08613			N/A
10/25/2018	AUDPLN	9:30:00 AM	2.6698	2.672			N/A
10/25/2018	AUDPLN	11:30:00 AM	2.6724	2.6746			N/A
10/25/2018	AUDPLN	1:30:00 PM	2.6731	2.6748			N/A
10/25/2018	AUDPLN	3:30:00 PM	2.6754	2.6785			N/A
10/25/2018	AUDSEK	9:30:00 AM	6.4394	6.4403			N/A
10/25/2018	AUDSEK	11:30:00 AM	6.4452	6.4484			N/A
10/25/2018	AUDSEK	1:30:00 PM	6.4446	6.446			N/A
10/25/2018	AUDSEK	3:30:00 PM	6.4543	6.4576			N/A
10/25/2018	AUDSGD	9:30:00 AM	0.9764	0.9767			N/A
10/25/2018	AUDSGD	11:30:00 AM	0.9755	0.9756			N/A
10/25/2018	AUDSGD	1:30:00 PM	0.9763	0.9764			N/A
10/25/2018	AUDSGD	3:30:00 PM	0.9781	0.9785			N/A
10/25/2018	AUDUSD	9:30:00 AM	0.7077	0.70767			N/A
10/25/2018	AUDUSD	11:30:00 AM	0.70725	0.70687			N/A
10/25/2018	AUDUSD	1:30:00 PM	0.70796	0.7077			N/A
10/25/2018	AUDUSD	3:30:00 PM	0.70928	0.70923			N/A
10/25/2018	AUDZAR	9:30:00 AM	10.3117	10.3198			N/A
10/25/2018	AUDZAR	11:30:00 AM	10.2872	10.2986			N/A
10/25/2018	AUDZAR	1:30:00 PM	10.2663	10.2741			N/A
10/25/2018	AUDZAR	3:30:00 PM	10.2791	10.2874			N/A
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10/25/2018	CADCHF	11:30:00 AM	0.7658	0.76652			N/A
10/25/2018	CADCHF	1:30:00 PM	0.76634	0.76685			N/A
10/25/2018	CADCHF	3:30:00 PM	0.76555	0.76611			N/A
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10/25/2018	CADCZK	1:30:00 PM	17.37	17.38			N/A
10/25/2018	CADCZK	3:30:00 PM	17.333	17.346			N/A
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10/25/2018	CADDKK	11:30:00 AM					N/A
10/25/2018	CADDKK	1:30:00 PM	5.02	5.023			N/A
10/25/2018	CADDKK	3:30:00 PM					N/A
10/25/2018	CADHKD	9:30:00 AM	6.0183	6.0222			N/A
10/25/2018	CADHKD	11:30:00 AM	6.0154	6.0192			N/A
10/25/2018	CADHKD	1:30:00 PM	6.0186	6.0209			N/A
10/25/2018	CADHKD	3:30:00 PM	6.0082	6.0116			N/A
10/25/2018	CADHUF	9:30:00 AM	217.51	217.64			N/A
10/25/2018	CADHUF	11:30:00 AM	217.74	217.9			N/A
10/25/2018	CADHUF	1:30:00 PM	217.89	217.98			N/A

10/25/2018	CADHUF	3:30:00 PM	217.32	217.46			N/A
10/25/2018	CADJPY	9:30:00 AM	86.042	86.09			N/A
10/25/2018	CADJPY	11:30:00 AM	86.17	86.233			N/A
10/25/2018	CADJPY	1:30:00 PM	86.169	86.229			N/A
10/25/2018	CADJPY	3:30:00 PM	86.103	86.144			N/A
10/25/2018	CADMXN	9:30:00 AM	15.0029	15.0133			N/A
10/25/2018	CADMXN	11:30:00 AM	14.9878	14.9983			N/A
10/25/2018	CADMXN	1:30:00 PM	15.0094	15.0128			N/A
10/25/2018	CADMXN	3:30:00 PM	14.9536	14.958			N/A
10/25/2018	CADNOK	9:30:00 AM	6.3969	6.401			N/A
10/25/2018	CADNOK	11:30:00 AM	6.3933	6.3967			N/A
10/25/2018	CADNOK	1:30:00 PM	6.3928	6.3955			N/A
10/25/2018	CADNOK	3:30:00 PM	6.3694	6.3734			N/A
10/25/2018	CADPLN	9:30:00 AM	2.8979	2.8986			N/A
10/25/2018	CADPLN	11:30:00 AM	2.902	2.9039			N/A
10/25/2018	CADPLN	1:30:00 PM	2.8996	2.9007			N/A
10/25/2018	CADPLN	3:30:00 PM	2.892	2.8939			N/A
10/25/2018	CADSEK	9:30:00 AM	6.9879	6.989			N/A
10/25/2018	CADSEK	11:30:00 AM	6.9996	7.0006			N/A
10/25/2018	CADSEK	1:30:00 PM	6.9913	6.9923			N/A
10/25/2018	CADSEK	3:30:00 PM	6.976	6.9797			N/A
10/25/2018	CADSGD	9:30:00 AM	1.0596	1.0599			N/A
10/25/2018	CADSGD	11:30:00 AM	1.0593	1.0596			N/A
10/25/2018	CADSGD	1:30:00 PM	1.0591	1.0594			N/A
10/25/2018	CADSGD	3:30:00 PM	1.0573	1.0576			N/A
10/25/2018	CADZAR	9:30:00 AM	11.1863	11.1969			N/A
10/25/2018	CADZAR	11:30:00 AM	11.1686	11.1809			N/A
10/25/2018	CADZAR	1:30:00 PM	11.1335	11.1431			N/A
10/25/2018	CADZAR	3:30:00 PM	11.1042	11.1141			N/A
10/25/2018	CHFCZK	9:30:00 AM	22.734	22.748			N/A
10/25/2018	CHFCZK	11:30:00 AM	22.704	22.721			N/A
10/25/2018	CHFCZK	1:30:00 PM	22.659	22.673			N/A
10/25/2018	CHFCZK	3:30:00 PM	22.636	22.649			N/A
10/25/2018	CHFDKK	9:30:00 AM	6.56	6.564			N/A
10/25/2018	CHFDKK	11:30:00 AM	6.553	6.556			N/A
10/25/2018	CHFDKK	1:30:00 PM	6.548	6.552			N/A
10/25/2018	CHFDKK	3:30:00 PM					N/A
10/25/2018	CHFHKD	9:30:00 AM	7.8681	7.8717			N/A
10/25/2018	CHFHKD	11:30:00 AM	7.8524	7.8563			N/A
10/25/2018	CHFHKD	1:30:00 PM	7.8514	7.8549			N/A
10/25/2018	CHFHKD	3:30:00 PM	7.8456	7.8495			N/A
10/25/2018	CHFHUF	9:30:00 AM	284.23	284.54			N/A
10/25/2018	CHFHUF	11:30:00 AM	284.12	284.49			N/A
10/25/2018	CHFHUF	1:30:00 PM	284.14	284.48			N/A
10/25/2018	CHFHUF	3:30:00 PM	283.73	284.05			N/A
10/25/2018	CHFJPY	9:30:00 AM	112.476	112.485			N/A
10/25/2018	CHFJPY	11:30:00 AM	112.48	112.504			N/A
10/25/2018	CHFJPY	1:30:00 PM	112.425	112.442			N/A
10/25/2018	CHFJPY	3:30:00 PM	112.428	112.454			N/A
10/25/2018	CHFMXN	9:30:00 AM	19.6106	19.6223			N/A

10/25/2018	CHFMXN	11:30:00 AM	19.5606	19.5751			N/A
10/25/2018	CHFMXN	1:30:00 PM	19.576	19.5862			N/A
10/25/2018	CHFMXN	3:30:00 PM	19.5298	19.5306			N/A
10/25/2018	CHFNOK	9:30:00 AM	8.3617	8.3687			N/A
10/25/2018	CHFNOK	11:30:00 AM	8.3437	8.35			N/A
10/25/2018	CHFNOK	1:30:00 PM	8.3389	8.3457			N/A
10/25/2018	CHFNOK	3:30:00 PM	8.3178	8.3251			N/A
10/25/2018	CHFPLN	9:30:00 AM	3.789	3.7897			N/A
10/25/2018	CHFPLN	11:30:00 AM	3.787	3.7903			N/A
10/25/2018	CHFPLN	1:30:00 PM	3.7826	3.785			N/A
10/25/2018	CHFPLN	3:30:00 PM	3.7766	3.7795			N/A
10/25/2018	CHFSEK	9:30:00 AM	9.1369	9.1367			N/A
10/25/2018	CHFSEK	11:30:00 AM	9.1375	9.1378			N/A
10/25/2018	CHFSEK	1:30:00 PM	9.1213	9.123			N/A
10/25/2018	CHFSEK	3:30:00 PM	9.1114	9.1152			N/A
10/25/2018	CHFSGD	9:30:00 AM	1.3851	1.3854			N/A
10/25/2018	CHFSGD	11:30:00 AM	1.3825	1.3829			N/A
10/25/2018	CHFSGD	1:30:00 PM	1.3814	1.3819			N/A
10/25/2018	CHFSGD	3:30:00 PM	1.3804	1.3808			N/A
10/25/2018	CHFZAR	9:30:00 AM	14.6257	14.6325			N/A
10/25/2018	CHFZAR	11:30:00 AM	14.5823	14.5917			N/A
10/25/2018	CHFZAR	1:30:00 PM	14.5264	14.5353			N/A
10/25/2018	CHFZAR	3:30:00 PM	14.5057	14.5099			N/A
10/25/2018	CZKJPY	9:30:00 AM	4.947	4.95			N/A
10/25/2018	CZKJPY	11:30:00 AM					N/A
10/25/2018	CZKJPY	1:30:00 PM	4.96	4.963			N/A
10/25/2018	CZKJPY	3:30:00 PM					N/A
10/25/2018	DKKJPY	9:30:00 AM	17.15	17.16			N/A
10/25/2018	DKKJPY	11:30:00 AM	17.17	17.18			N/A
10/25/2018	DKKJPY	1:30:00 PM					N/A
10/25/2018	DKKJPY	3:30:00 PM					N/A
10/25/2018	EURAUD	9:30:00 AM	1.61267	1.6125			N/A
10/25/2018	EURAUD	11:30:00 AM	1.61338	1.6125			N/A
10/25/2018	EURAUD	1:30:00 PM	1.6122	1.61152			N/A
10/25/2018	EURAUD	3:30:00 PM	1.60945	1.60917			N/A
10/25/2018	EURCAD	9:30:00 AM	1.48634	1.48666			N/A
10/25/2018	EURCAD	11:30:00 AM	1.48578	1.48628			N/A
10/25/2018	EURCAD	1:30:00 PM	1.4863	1.48636			N/A
10/25/2018	EURCAD	3:30:00 PM	1.48932	1.48964			N/A
10/25/2018	EURCHF	9:30:00 AM	1.13715	1.13711			N/A
10/25/2018	EURCHF	11:30:00 AM	1.13843	1.13853			N/A
10/25/2018	EURCHF	1:30:00 PM	1.13935	1.13931			N/A
10/25/2018	EURCHF	3:30:00 PM	1.14032	1.14074			N/A
10/25/2018	EURCZK	9:30:00 AM	25.842	25.875			N/A
10/25/2018	EURCZK	11:30:00 AM	25.838	25.877			N/A
10/25/2018	EURCZK	1:30:00 PM	25.809	25.844			N/A
10/25/2018	EURCZK	3:30:00 PM	25.812	25.839			N/A
10/25/2018	EURDKK	9:30:00 AM	7.4603	7.4613			N/A
10/25/2018	EURDKK	11:30:00 AM	7.4608	7.4621			N/A
10/25/2018	EURDKK	1:30:00 PM	7.4604	7.4615			N/A

10/25/2018	EURDKK	3:30:00 PM	7.4602	7.4615			N/A
10/25/2018	EURGBP	9:30:00 AM	0.8842	0.88422			N/A
10/25/2018	EURGBP	11:30:00 AM	0.88442	0.88454			N/A
10/25/2018	EURGBP	1:30:00 PM	0.88445	0.88444			N/A
10/25/2018	EURGBP	3:30:00 PM	0.88517	0.88521			N/A
10/25/2018	EURHKD	9:30:00 AM	8.9464	8.9496			N/A
10/25/2018	EURHKD	11:30:00 AM	8.9387	8.9432			N/A
10/25/2018	EURHKD	1:30:00 PM	8.9449	8.949			N/A
10/25/2018	EURHKD	3:30:00 PM	8.9472	8.9517			N/A
10/25/2018	EURHUF	9:30:00 AM	323.14	323.82			N/A
10/25/2018	EURHUF	11:30:00 AM	323.34	324.07			N/A
10/25/2018	EURHUF	1:30:00 PM	323.61	324.32			N/A
10/25/2018	EURHUF	3:30:00 PM	323.51	324.23			N/A
10/25/2018	EURJPY	9:30:00 AM	127.942	127.884			N/A
10/25/2018	EURJPY	11:30:00 AM	128.086	128.074			N/A
10/25/2018	EURJPY	1:30:00 PM	128.134	128.083	10	10	N/A
10/25/2018	EURJPY	3:30:00 PM	128.274	128.237			N/A
10/25/2018	EURMXN	9:30:00 AM	22.3	22.3155			N/A
10/25/2018	EURMXN	11:30:00 AM	22.2684	22.2859			N/A
10/25/2018	EURMXN	1:30:00 PM	22.3046	22.317			N/A
10/25/2018	EURMXN	3:30:00 PM	22.2765	22.2798			N/A
10/25/2018	EURNOK	9:30:00 AM	9.5067	9.5182			N/A
10/25/2018	EURNOK	11:30:00 AM	9.4977	9.5078			N/A
10/25/2018	EURNOK	1:30:00 PM	9.4991	9.5099			N/A
10/25/2018	EURNOK	3:30:00 PM	9.4845	9.4969			N/A
10/25/2018	EURNZD	9:30:00 AM	1.74946	1.7499			N/A
10/25/2018	EURNZD	11:30:00 AM	1.74928	1.74966			N/A
10/25/2018	EURNZD	1:30:00 PM	1.74958	1.7497			N/A
10/25/2018	EURNZD	3:30:00 PM	1.7476	1.74813			N/A
10/25/2018	EURPLN	9:30:00 AM	4.3088	4.309			N/A
10/25/2018	EURPLN	11:30:00 AM	4.3114	4.3146			N/A
10/25/2018	EURPLN	1:30:00 PM	4.3102	4.3121			N/A
10/25/2018	EURPLN	3:30:00 PM	4.3072	4.3105			N/A
10/25/2018	EURRUR	9:30:00 AM					N/A
10/25/2018	EURRUR	11:30:00 AM	74.606	75.037			N/A
10/25/2018	EURRUR	1:30:00 PM	74.645	75.064			N/A
10/25/2018	EURRUR	3:30:00 PM	74.611	75.041			N/A
10/25/2018	EURSEK	9:30:00 AM	10.3881	10.3891			N/A
10/25/2018	EURSEK	11:30:00 AM	10.4013	10.4025			N/A
10/25/2018	EURSEK	1:30:00 PM	10.3903	10.3935			N/A
10/25/2018	EURSEK	3:30:00 PM	10.3912	10.3942			N/A
10/25/2018	EURSGD	9:30:00 AM	1.5749	1.5755			N/A
10/25/2018	EURSGD	11:30:00 AM	1.5737	1.5745			N/A
10/25/2018	EURSGD	1:30:00 PM	1.5739	1.5745			N/A
10/25/2018	EURSGD	3:30:00 PM	1.5743	1.575			N/A
10/25/2018	EURUSD	9:30:00 AM	1.14146	1.14123			N/A
10/25/2018	EURUSD	11:30:00 AM	1.14041	1.14035			N/A
10/25/2018	EURUSD	1:30:00 PM	1.14105	1.14096			N/A
10/25/2018	EURUSD	3:30:00 PM	1.14142	1.14134			N/A
10/25/2018	EURZAR	9:30:00 AM	16.6346	16.6441			N/A

10/25/2018	EURZAR	11:30:00 AM	16.6007	16.6084			N/A
10/25/2018	EURZAR	1:30:00 PM	16.5531	16.5636			N/A
10/25/2018	EURZAR	3:30:00 PM	16.5488	16.558			N/A
10/25/2018	GBPAUD	9:30:00 AM	1.82399	1.82467			N/A
10/25/2018	GBPAUD	11:30:00 AM	1.82404	1.8239			N/A
10/25/2018	GBPAUD	1:30:00 PM	1.82301	1.82295			N/A
10/25/2018	GBPAUD	3:30:00 PM	1.81805	1.8187			N/A
10/25/2018	GBPCAD	9:30:00 AM	1.68061	1.68143			N/A
10/25/2018	GBPCAD	11:30:00 AM	1.67957	1.68036			N/A
10/25/2018	GBPCAD	1:30:00 PM	1.68046	1.68051			N/A
10/25/2018	GBPCAD	3:30:00 PM	1.68216	1.68269			N/A
10/25/2018	GBPCHF	9:30:00 AM	1.28568	1.28648			N/A
10/25/2018	GBPCHF	11:30:00 AM	1.2868	1.28757			N/A
10/25/2018	GBPCHF	1:30:00 PM	1.28792	1.28858			N/A
10/25/2018	GBPCHF	3:30:00 PM	1.28829	1.28858			N/A
10/25/2018	GBPCZK	9:30:00 AM	29.23	29.25			N/A
10/25/2018	GBPCZK	11:30:00 AM	29.217	29.24			N/A
10/25/2018	GBPCZK	1:30:00 PM	29.183	29.202			N/A
10/25/2018	GBPCZK	3:30:00 PM	29.156	29.175			N/A
10/25/2018	GBPDKK	9:30:00 AM	8.434	8.445			N/A
10/25/2018	GBPDKK	11:30:00 AM	8.431	8.444			N/A
10/25/2018	GBPDKK	1:30:00 PM	8.432	8.443			N/A
10/25/2018	GBPDKK	3:30:00 PM	8.424	8.435			N/A
10/25/2018	GBPHKD	9:30:00 AM	10.1165	10.1212			N/A
10/25/2018	GBPHKD	11:30:00 AM	10.1043	10.1102			N/A
10/25/2018	GBPHKD	1:30:00 PM	10.1129	10.1174			N/A
10/25/2018	GBPHKD	3:30:00 PM	10.1066	10.1113			N/A
10/25/2018	GBPHUF	9:30:00 AM	365.47	365.9			N/A
10/25/2018	GBPHUF	11:30:00 AM	365.63	366.11			N/A
10/25/2018	GBPHUF	1:30:00 PM	365.94	366.4			N/A
10/25/2018	GBPHUF	3:30:00 PM	365.47	365.89			N/A
10/25/2018	GBPJPY	9:30:00 AM	144.677	144.676			N/A
10/25/2018	GBPJPY	11:30:00 AM	144.805	144.83			N/A
10/25/2018	GBPJPY	1:30:00 PM	144.873	144.845			N/A
10/25/2018	GBPJPY	3:30:00 PM	144.888	144.908			N/A
10/25/2018	GBPMXN	9:30:00 AM	25.2174	25.2289			N/A
10/25/2018	GBPMXN	11:30:00 AM	25.1748	25.1875			N/A
10/25/2018	GBPMXN	1:30:00 PM	25.213	25.2252			N/A
10/25/2018	GBPMXN	3:30:00 PM	25.1594	25.1552			N/A
10/25/2018	GBPNOK	9:30:00 AM	10.7529	10.7633			N/A
10/25/2018	GBPNOK	11:30:00 AM	10.7395	10.7484			N/A
10/25/2018	GBPNOK	1:30:00 PM	10.7408	10.7516			N/A
10/25/2018	GBPNOK	3:30:00 PM	10.7162	10.7264			N/A
10/25/2018	GBPNZD	9:30:00 AM	1.97854	1.97909			N/A
10/25/2018	GBPNZD	11:30:00 AM	1.97791	1.97805			N/A
10/25/2018	GBPNZD	1:30:00 PM	1.97847	1.97828			N/A
10/25/2018	GBPNZD	3:30:00 PM	1.97432	1.97478			N/A
10/25/2018	GBPPLN	9:30:00 AM	4.8732	4.8726			N/A
10/25/2018	GBPPLN	11:30:00 AM	4.8756	4.8775			N/A
10/25/2018	GBPPLN	1:30:00 PM	4.8737	4.8751			N/A

10/25/2018	GBPPLN	3:30:00 PM	4.8667	4.8683			N/A
10/25/2018	GBPSEK	9:30:00 AM	11.7472	11.7512			N/A
10/25/2018	GBPSEK	11:30:00 AM	11.7583	11.7632			N/A
10/25/2018	GBPSEK	1:30:00 PM	11.7466	11.7527			N/A
10/25/2018	GBPSEK	3:30:00 PM	11.7368	11.7452			N/A
10/25/2018	GBPSGD	9:30:00 AM	1.7813	1.7819			N/A
10/25/2018	GBPSGD	11:30:00 AM	1.7793	1.7801			N/A
10/25/2018	GBPSGD	1:30:00 PM	1.7797	1.7802			N/A
10/25/2018	GBPSGD	3:30:00 PM	1.7785	1.7792			N/A
10/25/2018	GBPUSD	9:30:00 AM	1.291	1.2909			N/A
10/25/2018	GBPUSD	11:30:00 AM	1.2895	1.28949			N/A
10/25/2018	GBPUSD	1:30:00 PM	1.29039	1.29022			N/A
10/25/2018	GBPUSD	3:30:00 PM	1.2896	1.28953			N/A
10/25/2018	GBPZAR	9:30:00 AM	18.8101	18.8276			N/A
10/25/2018	GBPZAR	11:30:00 AM	18.7661	18.7807			N/A
10/25/2018	GBPZAR	1:30:00 PM	18.7115	18.7324			N/A
10/25/2018	GBPZAR	3:30:00 PM	18.6915	18.7075			N/A
10/25/2018	GOLD	9:30:00 AM	1237.9	1237.97			N/A
10/25/2018	GOLD	11:30:00 AM	1232.83	1232.77			N/A
10/25/2018	GOLD	1:30:00 PM	1232.7	1232.5			N/A
10/25/2018	GOLD	3:30:00 PM	1232.23	1231.96			N/A
10/25/2018	HKDJPY	9:30:00 AM	14.3	14.31			N/A
10/25/2018	HKDJPY	11:30:00 AM	14.32	14.34			N/A
10/25/2018	HKDJPY	1:30:00 PM					N/A
10/25/2018	HKDJPY	3:30:00 PM					N/A
10/25/2018	HUFJPY	9:30:00 AM	0.3957	0.396			N/A
10/25/2018	HUFJPY	11:30:00 AM	0.3958	0.3961			N/A
10/25/2018	HUFJPY	1:30:00 PM	0.3959	0.3962			N/A
10/25/2018	HUFJPY	3:30:00 PM	0.3961	0.3964			N/A
10/25/2018	MXNJPY	9:30:00 AM	5.74	5.75			N/A
10/25/2018	MXNJPY	11:30:00 AM					N/A
10/25/2018	MXNJPY	1:30:00 PM					N/A
10/25/2018	MXNJPY	3:30:00 PM					N/A
10/25/2018	NOKJPY	9:30:00 AM					N/A
10/25/2018	NOKJPY	11:30:00 AM					N/A
10/25/2018	NOKJPY	1:30:00 PM					N/A
10/25/2018	NOKJPY	3:30:00 PM	13.51	13.54			N/A
10/25/2018	NZDCAD	9:30:00 AM	0.84917	0.84983			N/A
10/25/2018	NZDCAD	11:30:00 AM	0.84911	0.84957			N/A
10/25/2018	NZDCAD	1:30:00 PM	0.84911	0.84978			N/A
10/25/2018	NZDCAD	3:30:00 PM	0.85184	0.85233			N/A
10/25/2018	NZDCHF	9:30:00 AM	0.64961	0.65022			N/A
10/25/2018	NZDCHF	11:30:00 AM	0.65047	0.65101			N/A
10/25/2018	NZDCHF	1:30:00 PM	0.65092	0.65142			N/A
10/25/2018	NZDCHF	3:30:00 PM	0.65223	0.65289			N/A
10/25/2018	NZDCZK	9:30:00 AM	14.77	14.78			N/A
10/25/2018	NZDCZK	11:30:00 AM	14.77	14.782			N/A
10/25/2018	NZDCZK	1:30:00 PM	14.752	14.758			N/A
10/25/2018	NZDCZK	3:30:00 PM	14.765	14.776			N/A
10/25/2018	NZDDKK	9:30:00 AM	4.262	4.266			N/A

10/25/2018	NZDDKK	11:30:00 AM					N/A
10/25/2018	NZDDKK	1:30:00 PM	4.263	4.266			N/A
10/25/2018	NZDDKK	3:30:00 PM					N/A
10/25/2018	NZDHKD	9:30:00 AM	5.1113	5.1142			N/A
10/25/2018	NZDHKD	11:30:00 AM	5.1081	5.1098			N/A
10/25/2018	NZDHKD	1:30:00 PM	5.1108	5.1123			N/A
10/25/2018	NZDHKD	3:30:00 PM	5.1172	5.12			N/A
10/25/2018	NZDHUF	9:30:00 AM	184.65	184.9			N/A
10/25/2018	NZDHUF	11:30:00 AM	184.81	185.08			N/A
10/25/2018	NZDHUF	1:30:00 PM	184.96	185.17			N/A
10/25/2018	NZDHUF	3:30:00 PM	185.05	185.32			N/A
10/25/2018	NZDJPY	9:30:00 AM	73.08	73.138			N/A
10/25/2018	NZDJPY	11:30:00 AM	73.187	73.238			N/A
10/25/2018	NZDJPY	1:30:00 PM	73.188	73.251			N/A
10/25/2018	NZDJPY	3:30:00 PM	73.357	73.417			N/A
10/25/2018	NZDMXN	9:30:00 AM	12.7415	12.7457			N/A
10/25/2018	NZDMXN	11:30:00 AM	12.7255	12.7307			N/A
10/25/2018	NZDMXN	1:30:00 PM	12.7461	12.7438			N/A
10/25/2018	NZDMXN	3:30:00 PM	12.7408	12.7368			N/A
10/25/2018	NZDNOK	9:30:00 AM	5.4327	5.4358			N/A
10/25/2018	NZDNOK	11:30:00 AM	5.4276	5.4315			N/A
10/25/2018	NZDNOK	1:30:00 PM	5.4289	5.4307			N/A
10/25/2018	NZDNOK	3:30:00 PM	5.425	5.4287			N/A
10/25/2018	NZDPLN	9:30:00 AM	2.4609	2.4611			N/A
10/25/2018	NZDPLN	11:30:00 AM	2.4635	2.4649			N/A
10/25/2018	NZDPLN	1:30:00 PM	2.4623	2.4628			N/A
10/25/2018	NZDPLN	3:30:00 PM	2.4638	2.4651			N/A
10/25/2018	NZDSEK	9:30:00 AM	5.9329	5.9367			N/A
10/25/2018	NZDSEK	11:30:00 AM	5.9404	5.9456			N/A
10/25/2018	NZDSEK	1:30:00 PM	5.9346	5.9393			N/A
10/25/2018	NZDSEK	3:30:00 PM	5.9398	5.9467			N/A
10/25/2018	NZDSGD	9:30:00 AM	0.9002	0.9008			N/A
10/25/2018	NZDSGD	11:30:00 AM	0.8997	0.9002			N/A
10/25/2018	NZDSGD	1:30:00 PM	0.8996	0.9002			N/A
10/25/2018	NZDSGD	3:30:00 PM	0.9007	0.9013			N/A
10/25/2018	NZDUSD	9:30:00 AM	0.65228	0.65223			N/A
10/25/2018	NZDUSD	11:30:00 AM	0.65193	0.65171			N/A
10/25/2018	NZDUSD	1:30:00 PM	0.65216	0.652			N/A
10/25/2018	NZDUSD	3:30:00 PM	0.65299	0.65302			N/A
10/25/2018	NZDZAR	9:30:00 AM	9.4985	9.5101			N/A
10/25/2018	NZDZAR	11:30:00 AM	9.4808	9.4947			N/A
10/25/2018	NZDZAR	1:30:00 PM	9.4529	9.4631			N/A
10/25/2018	NZDZAR	3:30:00 PM	9.4568	9.4683			N/A
10/25/2018	SEKJPY	9:30:00 AM	12.32	12.34			N/A
10/25/2018	SEKJPY	11:30:00 AM	12.32	12.34			N/A
10/25/2018	SEKJPY	1:30:00 PM					N/A
10/25/2018	SEKJPY	3:30:00 PM	12.34	12.36			N/A
10/25/2018	SGDJPY	9:30:00 AM	81.19	81.2			N/A
10/25/2018	SGDJPY	11:30:00 AM	81.34	81.37			N/A
10/25/2018	SGDJPY	1:30:00 PM	81.37	81.38			N/A

10/25/2018	SGDJPY	3:30:00 PM	81.43	81.45			N/A
10/25/2018	SILVER	9:30:00 AM	14.58	14.94			N/A
10/25/2018	SILVER	11:30:00 AM	14.52	14.87			N/A
10/25/2018	SILVER	1:30:00 PM	14.54	14.91			N/A
10/25/2018	SILVER	3:30:00 PM	14.55	14.91			N/A
10/25/2018	USDCAD	9:30:00 AM	1.3022	1.30222			N/A
10/25/2018	USDCAD	11:30:00 AM	1.30288	1.30294			N/A
10/25/2018	USDCAD	1:30:00 PM	1.30267	1.30235			N/A
10/25/2018	USDCAD	3:30:00 PM	1.30484	1.30464			N/A
10/25/2018	USDCHF	9:30:00 AM	0.99622	0.99618			N/A
10/25/2018	USDCHF	11:30:00 AM	0.99816	0.99823			N/A
10/25/2018	USDCHF	1:30:00 PM	0.99838	0.99849			N/A
10/25/2018	USDCHF	3:30:00 PM	0.99885	0.99948			N/A
10/25/2018	USDCZK	9:30:00 AM	22.643	22.663			N/A
10/25/2018	USDCZK	11:30:00 AM	22.66	22.683			N/A
10/25/2018	USDCZK	1:30:00 PM	22.619	22.64			N/A
10/25/2018	USDCZK	3:30:00 PM	22.612	22.635			N/A
10/25/2018	USDDKK	9:30:00 AM	6.5373	6.5412			N/A
10/25/2018	USDDKK	11:30:00 AM	6.5428	6.5477			N/A
10/25/2018	USDDKK	1:30:00 PM	6.5389	6.5434			N/A
10/25/2018	USDDKK	3:30:00 PM	6.5368	6.5416			N/A
10/25/2018	USDHKD	9:30:00 AM	7.839	7.8394			N/A
10/25/2018	USDHKD	11:30:00 AM	7.8393	7.8396			N/A
10/25/2018	USDHKD	1:30:00 PM	7.84	7.8405			N/A
10/25/2018	USDHKD	3:30:00 PM	7.84	7.8404			N/A
10/25/2018	USDHUF	9:30:00 AM	283.21	283.57			N/A
10/25/2018	USDHUF	11:30:00 AM	283.59	284.05			N/A
10/25/2018	USDHUF	1:30:00 PM	283.67	284.09			N/A
10/25/2018	USDHUF	3:30:00 PM	283.48	283.92			N/A
10/25/2018	USDJPY	9:30:00 AM	112.087	112.067			N/A
10/25/2018	USDJPY	11:30:00 AM	112.316	112.307			N/A
10/25/2018	USDJPY	1:30:00 PM	112.288	112.257			N/A
10/25/2018	USDJPY	3:30:00 PM	112.378	112.358			N/A
10/25/2018	USDMXN	9:30:00 AM	19.539	19.545			N/A
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10/25/2018	USDMXN	3:30:00 PM	19.519	19.514			N/A
10/25/2018	USDNOK	9:30:00 AM	8.3308	8.3381			N/A
10/25/2018	USDNOK	11:30:00 AM	8.3299	8.3361			N/A
10/25/2018	USDNOK	1:30:00 PM	8.3261	8.3336			N/A
10/25/2018	USDNOK	3:30:00 PM	8.3112	8.3196			N/A
10/25/2018	USDPLN	9:30:00 AM	3.7749	3.7742			N/A
10/25/2018	USDPLN	11:30:00 AM	3.7811	3.7824			N/A
10/25/2018	USDPLN	1:30:00 PM	3.7776	3.778			N/A
10/25/2018	USDPLN	3:30:00 PM	3.774	3.7753			N/A
10/25/2018	USDRUR	9:30:00 AM					N/A
10/25/2018	USDRUR	11:30:00 AM	65.501	65.879			N/A
10/25/2018	USDRUR	1:30:00 PM	65.498	65.875			N/A
10/25/2018	USDRUR	3:30:00 PM	65.455	65.837			N/A
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10/25/2018	USDSEK	11:30:00 AM	9.1184	9.1195			N/A
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10/25/2018	USDSGD	11:30:00 AM	1.3799	1.3803			N/A
10/25/2018	USDSGD	1:30:00 PM	1.3792	1.3796			N/A
10/25/2018	USDSGD	3:30:00 PM	1.3792	1.3796			N/A
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10/25/2018	XAUUSD	11:30:00 AM	1232.83	1232.77			N/A
10/25/2018	XAUUSD	1:30:00 PM	1232.7	1232.5			N/A
10/25/2018	XAUUSD	3:30:00 PM	1232.23	1232			N/A
10/25/2018	ZARJPY	9:30:00 AM					N/A
10/25/2018	ZARJPY	11:30:00 AM	7.67	7.71			N/A
10/25/2018	ZARJPY	1:30:00 PM					N/A
10/25/2018	ZARJPY	3:30:00 PM	7.68	7.72			N/A
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10/26/2018	#ZNGA	3:30:00 PM					N/A
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10/26/2018	AUDCAD	11:30:00 AM	0.92339	0.92406			N/A
10/26/2018	AUDCAD	1:30:00 PM	0.92333	0.92399			N/A
10/26/2018	AUDCAD	3:30:00 PM	0.92468	0.92486			N/A
10/26/2018	AUDCHF	9:30:00 AM	0.7032	0.70382			N/A
10/26/2018	AUDCHF	11:30:00 AM	0.70256	0.70328			N/A
10/26/2018	AUDCHF	1:30:00 PM	0.70323	0.70387			N/A
10/26/2018	AUDCHF	3:30:00 PM	0.70472	0.70466			N/A
10/26/2018	AUDCZK	9:30:00 AM	15.996	16.014			N/A
10/26/2018	AUDCZK	11:30:00 AM	15.982	15.998			N/A
10/26/2018	AUDCZK	1:30:00 PM	15.992	16.006			N/A
10/26/2018	AUDCZK	3:30:00 PM	16.003	16.013			N/A
10/26/2018	AUDDKK	9:30:00 AM	4.6152	4.6195			N/A
10/26/2018	AUDDKK	11:30:00 AM	4.6106	4.6154			N/A
10/26/2018	AUDDKK	1:30:00 PM	4.6145	4.6192			N/A

10/26/2018	AUDDKK	3:30:00 PM	4.6223	4.6261			N/A
10/26/2018	AUDHKD	9:30:00 AM	5.5162	5.5201			N/A
10/26/2018	AUDHKD	11:30:00 AM	5.5085	5.5123			N/A
10/26/2018	AUDHKD	1:30:00 PM	5.5087	5.5106			N/A
10/26/2018	AUDHKD	3:30:00 PM	5.5129	5.5129			N/A
10/26/2018	AUDHUF	9:30:00 AM	200.4	200.61			N/A
10/26/2018	AUDHUF	11:30:00 AM	200.26	200.49			N/A
10/26/2018	AUDHUF	1:30:00 PM	200.42	200.62			N/A
10/26/2018	AUDHUF	3:30:00 PM	200.85	200.99			N/A
10/26/2018	AUDJPY	9:30:00 AM	78.947	78.997			N/A
10/26/2018	AUDJPY	11:30:00 AM	78.715	78.78			N/A
10/26/2018	AUDJPY	1:30:00 PM	78.672	78.738			N/A
10/26/2018	AUDJPY	3:30:00 PM	78.862	78.818			N/A
10/26/2018	AUDMXN	9:30:00 AM	13.7297	13.7395			N/A
10/26/2018	AUDMXN	11:30:00 AM	13.7265	13.736			N/A
10/26/2018	AUDMXN	1:30:00 PM	13.752	13.7595			N/A
10/26/2018	AUDMXN	3:30:00 PM	13.7261	13.7256			N/A
10/26/2018	AUDNOK	9:30:00 AM	5.8755	5.881			N/A
10/26/2018	AUDNOK	11:30:00 AM	5.8803	5.8834			N/A
10/26/2018	AUDNOK	1:30:00 PM	5.8852	5.8901			N/A
10/26/2018	AUDNOK	3:30:00 PM	5.8924	5.8969			N/A
10/26/2018	AUDNZD	9:30:00 AM	1.08625	1.08688			N/A
10/26/2018	AUDNZD	11:30:00 AM	1.08589	1.08642			N/A
10/26/2018	AUDNZD	1:30:00 PM	1.08616	1.08654			N/A
10/26/2018	AUDNZD	3:30:00 PM	1.08653	1.08657			N/A
10/26/2018	AUDPLN	9:30:00 AM	2.6679	2.6709			N/A
10/26/2018	AUDPLN	11:30:00 AM	2.6644	2.6675			N/A
10/26/2018	AUDPLN	1:30:00 PM	2.6683	2.6708			N/A
10/26/2018	AUDPLN	3:30:00 PM	2.6739	2.6762			N/A
10/26/2018	AUDSEK	9:30:00 AM	6.4201	6.4228			N/A
10/26/2018	AUDSEK	11:30:00 AM	6.4279	6.4301			N/A
10/26/2018	AUDSEK	1:30:00 PM	6.436	6.439			N/A
10/26/2018	AUDSEK	3:30:00 PM	6.449	6.4515			N/A
10/26/2018	AUDSGD	9:30:00 AM	0.9736	0.9739			N/A
10/26/2018	AUDSGD	11:30:00 AM	0.9722	0.9724			N/A
10/26/2018	AUDSGD	1:30:00 PM	0.9721	0.9724			N/A
10/26/2018	AUDSGD	3:30:00 PM	0.9735	0.9734			N/A
10/26/2018	AUDUSD	9:30:00 AM	0.70394	0.70392			N/A
10/26/2018	AUDUSD	11:30:00 AM	0.70307	0.70294			N/A
10/26/2018	AUDUSD	1:30:00 PM	0.70304	0.70301			N/A
10/26/2018	AUDUSD	3:30:00 PM	0.7037	0.70298			N/A
10/26/2018	AUDZAR	9:30:00 AM	10.2758	10.2873			N/A
10/26/2018	AUDZAR	11:30:00 AM	10.2979	10.3096			N/A
10/26/2018	AUDZAR	1:30:00 PM	10.3255	10.3355			N/A
10/26/2018	AUDZAR	3:30:00 PM	10.3519	10.3408			N/A
10/26/2018	CADCHF	9:30:00 AM	0.76179	0.7625			N/A
10/26/2018	CADCHF	11:30:00 AM	0.76063	0.76128			N/A
10/26/2018	CADCHF	1:30:00 PM	0.76134	0.76198			N/A
10/26/2018	CADCHF	3:30:00 PM	0.76189	0.76207			N/A
10/26/2018	CADCZK	9:30:00 AM	17.335	17.352			N/A

10/26/2018	CADCZK	11:30:00 AM	17.308	17.323			N/A
10/26/2018	CADCZK	1:30:00 PM	17.319	17.333			N/A
10/26/2018	CADCZK	3:30:00 PM	17.314	17.322			N/A
10/26/2018	CADDDK	9:30:00 AM	5.002	5.006			N/A
10/26/2018	CADDDK	11:30:00 AM					N/A
10/26/2018	CADDDK	1:30:00 PM	4.997	5.001			N/A
10/26/2018	CADDDK	3:30:00 PM	5.001	5.003			N/A
10/26/2018	CADHKD	9:30:00 AM	5.978	5.9819			N/A
10/26/2018	CADHKD	11:30:00 AM	5.9646	5.9685			N/A
10/26/2018	CADHKD	1:30:00 PM	5.9652	5.968			N/A
10/26/2018	CADHKD	3:30:00 PM	5.9623	5.9646			N/A
10/26/2018	CADHUF	9:30:00 AM	217.2	217.35			N/A
10/26/2018	CADHUF	11:30:00 AM	216.9	217.04			N/A
10/26/2018	CADHUF	1:30:00 PM	217.08	217.22			N/A
10/26/2018	CADHUF	3:30:00 PM	217.34	217.4			N/A
10/26/2018	CADJPY	9:30:00 AM	85.524	85.583			N/A
10/26/2018	CADJPY	11:30:00 AM	85.22	85.283			N/A
10/26/2018	CADJPY	1:30:00 PM	85.176	85.241			N/A
10/26/2018	CADJPY	3:30:00 PM	85.27	85.242			N/A
10/26/2018	CADMXN	9:30:00 AM	14.8793	14.8914			N/A
10/26/2018	CADMXN	11:30:00 AM	14.8652	14.876			N/A
10/26/2018	CADMXN	1:30:00 PM	14.8931	14.901			N/A
10/26/2018	CADMXN	3:30:00 PM	14.8563	14.8534			N/A
10/26/2018	CADNOK	9:30:00 AM	6.3683	6.3723			N/A
10/26/2018	CADNOK	11:30:00 AM	6.3683	6.3697			N/A
10/26/2018	CADNOK	1:30:00 PM	6.3742	6.3785			N/A
10/26/2018	CADNOK	3:30:00 PM	6.3759	6.3776			N/A
10/26/2018	CADPLN	9:30:00 AM	2.8914	2.8932			N/A
10/26/2018	CADPLN	11:30:00 AM	2.8855	2.8873			N/A
10/26/2018	CADPLN	1:30:00 PM	2.8889	2.8898			N/A
10/26/2018	CADPLN	3:30:00 PM	2.892	2.8928			N/A
10/26/2018	CADSEK	9:30:00 AM	6.9569	6.9584			N/A
10/26/2018	CADSEK	11:30:00 AM	6.9591	6.9614			N/A
10/26/2018	CADSEK	1:30:00 PM	6.9697	6.97			N/A
10/26/2018	CADSEK	3:30:00 PM	6.9764	6.9757			N/A
10/26/2018	CADSGD	9:30:00 AM	1.0551	1.0554			N/A
10/26/2018	CADSGD	11:30:00 AM	1.0524	1.0527			N/A
10/26/2018	CADSGD	1:30:00 PM	1.0524	1.0526			N/A
10/26/2018	CADSGD	3:30:00 PM	1.0528	1.0531			N/A
10/26/2018	CADZAR	9:30:00 AM	11.1293	11.1443			N/A
10/26/2018	CADZAR	11:30:00 AM	11.147	11.1599			N/A
10/26/2018	CADZAR	1:30:00 PM	11.1759	11.1878			N/A
10/26/2018	CADZAR	3:30:00 PM	11.1856	11.176			N/A
10/26/2018	CHFCZK	9:30:00 AM	22.749	22.766			N/A
10/26/2018	CHFCZK	11:30:00 AM	22.748	22.765			N/A
10/26/2018	CHFCZK	1:30:00 PM	22.743	22.759			N/A
10/26/2018	CHFCZK	3:30:00 PM	22.73	22.726			N/A
10/26/2018	CHFDKK	9:30:00 AM	6.563	6.566			N/A
10/26/2018	CHFDKK	11:30:00 AM					N/A
10/26/2018	CHFDKK	1:30:00 PM					N/A

10/26/2018	CHFDKK	3:30:00 PM	6.563	6.562			N/A
10/26/2018	CHFHKD	9:30:00 AM	7.8438	7.8477			N/A
10/26/2018	CHFHKD	11:30:00 AM	7.8405	7.8428			N/A
10/26/2018	CHFHKD	1:30:00 PM	7.8332	7.8369			N/A
10/26/2018	CHFHKD	3:30:00 PM	7.8254	7.8257			N/A
10/26/2018	CHFHUF	9:30:00 AM	284.92	285.3			N/A
10/26/2018	CHFHUF	11:30:00 AM	284.96	285.34			N/A
10/26/2018	CHFHUF	1:30:00 PM	284.95	285.33			N/A
10/26/2018	CHFHUF	3:30:00 PM	285.17	285.35			N/A
10/26/2018	CHFJPY	9:30:00 AM	112.225	112.266			N/A
10/26/2018	CHFJPY	11:30:00 AM	112.004	112.033			N/A
10/26/2018	CHFJPY	1:30:00 PM	111.843	111.866			N/A
10/26/2018	CHFJPY	3:30:00 PM	111.871	111.848			N/A
10/26/2018	CHFMXN	9:30:00 AM	19.5221	19.5384			N/A
10/26/2018	CHFMXN	11:30:00 AM	19.5344	19.5481			N/A
10/26/2018	CHFMXN	1:30:00 PM	19.5534	19.5653			N/A
10/26/2018	CHFMXN	3:30:00 PM	19.4953	19.4869			N/A
10/26/2018	CHFNOK	9:30:00 AM	8.355	8.3624			N/A
10/26/2018	CHFNOK	11:30:00 AM	8.368	8.3731			N/A
10/26/2018	CHFNOK	1:30:00 PM	8.3687	8.3759			N/A
10/26/2018	CHFNOK	3:30:00 PM	8.3695	8.3697			N/A
10/26/2018	CHFPLN	9:30:00 AM	3.7929	3.796			N/A
10/26/2018	CHFPLN	11:30:00 AM	3.7912	3.7943			N/A
10/26/2018	CHFPLN	1:30:00 PM	3.7931	3.7956			N/A
10/26/2018	CHFPLN	3:30:00 PM	3.7955	3.7966			N/A
10/26/2018	CHFSEK	9:30:00 AM	9.129	9.1317			N/A
10/26/2018	CHFSEK	11:30:00 AM	9.1467	9.1495			N/A
10/26/2018	CHFSEK	1:30:00 PM	9.1521	9.1545			N/A
10/26/2018	CHFSEK	3:30:00 PM	9.16	9.1534			N/A
10/26/2018	CHFSGD	9:30:00 AM	1.3841	1.3845			N/A
10/26/2018	CHFSGD	11:30:00 AM	1.3831	1.3836			N/A
10/26/2018	CHFSGD	1:30:00 PM	1.3819	1.3822			N/A
10/26/2018	CHFSGD	3:30:00 PM	1.3814	1.3814			N/A
10/26/2018	CHFZAR	9:30:00 AM	14.6075	14.6194			N/A
10/26/2018	CHFZAR	11:30:00 AM	14.6512	14.6624			N/A
10/26/2018	CHFZAR	1:30:00 PM	14.6806	14.6869			N/A
10/26/2018	CHFZAR	3:30:00 PM	14.6814	14.6602			N/A
10/26/2018	CZKJPY	9:30:00 AM					N/A
10/26/2018	CZKJPY	11:30:00 AM					N/A
10/26/2018	CZKJPY	1:30:00 PM					N/A
10/26/2018	CZKJPY	3:30:00 PM	4.926	4.925			N/A
10/26/2018	DKKJPY	9:30:00 AM					N/A
10/26/2018	DKKJPY	11:30:00 AM					N/A
10/26/2018	DKKJPY	1:30:00 PM	17.05	17.07			N/A
10/26/2018	DKKJPY	3:30:00 PM	17.06	17.06			N/A
10/26/2018	EURAUD	9:30:00 AM	1.61551	1.61525			N/A
10/26/2018	EURAUD	11:30:00 AM	1.61705	1.61691			N/A
10/26/2018	EURAUD	1:30:00 PM	1.61571	1.61557			N/A
10/26/2018	EURAUD	3:30:00 PM	1.6134	1.6129			N/A
10/26/2018	EURCAD	9:30:00 AM	1.49131	1.4918			N/A

10/26/2018	EURCAD	11:30:00 AM	1.49391	1.49429			N/A
10/26/2018	EURCAD	1:30:00 PM	1.49265	1.49296			N/A
10/26/2018	EURCAD	3:30:00 PM	1.49229	1.49201			N/A
10/26/2018	EURCHF	9:30:00 AM	1.13662	1.13668			N/A
10/26/2018	EURCHF	11:30:00 AM	1.13675	1.13684			N/A
10/26/2018	EURCHF	1:30:00 PM	1.13683	1.13693			N/A
10/26/2018	EURCHF	3:30:00 PM	1.13729	1.13653			N/A
10/26/2018	EURCZK	9:30:00 AM	25.845	25.884			N/A
10/26/2018	EURCZK	11:30:00 AM	25.852	25.891			N/A
10/26/2018	EURCZK	1:30:00 PM	25.848	25.887			N/A
10/26/2018	EURCZK	3:30:00 PM	25.822	25.855			N/A
10/26/2018	EURDKK	9:30:00 AM	7.4599	7.4611			N/A
10/26/2018	EURDKK	11:30:00 AM	7.4598	7.4609			N/A
10/26/2018	EURDKK	1:30:00 PM	7.4598	7.461			N/A
10/26/2018	EURDKK	3:30:00 PM	7.4601	7.4609			N/A
10/26/2018	EURGBP	9:30:00 AM	0.88721	0.88709			N/A
10/26/2018	EURGBP	11:30:00 AM	0.88714	0.88724			N/A
10/26/2018	EURGBP	1:30:00 PM	0.88783	0.88783			N/A
10/26/2018	EURGBP	3:30:00 PM	0.88697	0.88681			N/A
10/26/2018	EURHKD	9:30:00 AM	8.9149	8.9194			N/A
10/26/2018	EURHKD	11:30:00 AM	8.9118	8.9153			N/A
10/26/2018	EURHKD	1:30:00 PM	8.9041	8.9089			N/A
10/26/2018	EURHKD	3:30:00 PM	8.8965	8.8946			N/A
10/26/2018	EURHUF	9:30:00 AM	323.75	324.45			N/A
10/26/2018	EURHUF	11:30:00 AM	323.82	324.53			N/A
10/26/2018	EURHUF	1:30:00 PM	323.82	324.56			N/A
10/26/2018	EURHUF	3:30:00 PM	323.99	324.71			N/A
10/26/2018	EURJPY	9:30:00 AM	127.598	127.581			N/A
10/26/2018	EURJPY	11:30:00 AM	127.358	127.349			N/A
10/26/2018	EURJPY	1:30:00 PM	127.183	127.164			N/A
10/26/2018	EURJPY	3:30:00 PM	127.271	127.123	10	10	N/A
10/26/2018	EURMXN	9:30:00 AM	22.1907	22.2082			N/A
10/26/2018	EURMXN	11:30:00 AM	22.2076	22.2233			N/A
10/26/2018	EURMXN	1:30:00 PM	22.2278	22.2419			N/A
10/26/2018	EURMXN	3:30:00 PM	22.1637	22.159			N/A
10/26/2018	EURNOK	9:30:00 AM	9.4952	9.5064			N/A
10/26/2018	EURNOK	11:30:00 AM	9.5109	9.5195			N/A
10/26/2018	EURNOK	1:30:00 PM	9.5128	9.524			N/A
10/26/2018	EURNOK	3:30:00 PM	9.5099	9.5209			N/A
10/26/2018	EURNZD	9:30:00 AM	1.75534	1.75619			N/A
10/26/2018	EURNZD	11:30:00 AM	1.75658	1.75694			N/A
10/26/2018	EURNZD	1:30:00 PM	1.75545	1.75577			N/A
10/26/2018	EURNZD	3:30:00 PM	1.75337	1.7534			N/A
10/26/2018	EURPLN	9:30:00 AM	4.3115	4.3135			N/A
10/26/2018	EURPLN	11:30:00 AM	4.31	4.3133			N/A
10/26/2018	EURPLN	1:30:00 PM	4.3128	4.3148			N/A
10/26/2018	EURPLN	3:30:00 PM	4.3149	4.3165			N/A
10/26/2018	EURRUR	9:30:00 AM					N/A
10/26/2018	EURRUR	11:30:00 AM	74.339	74.776			N/A
10/26/2018	EURRUR	1:30:00 PM	74.432	74.804			N/A

10/26/2018	EURRUR	3:30:00 PM	74.38	74.802			N/A
10/26/2018	EURSEK	9:30:00 AM	10.3751	10.379			N/A
10/26/2018	EURSEK	11:30:00 AM	10.3966	10.4004			N/A
10/26/2018	EURSEK	1:30:00 PM	10.4043	10.4065			N/A
10/26/2018	EURSEK	3:30:00 PM	10.4079	10.4104			N/A
10/26/2018	EURSGD	9:30:00 AM	1.5731	1.5739			N/A
10/26/2018	EURSGD	11:30:00 AM	1.5722	1.5729			N/A
10/26/2018	EURSGD	1:30:00 PM	1.5708	1.5716			N/A
10/26/2018	EURSGD	3:30:00 PM	1.5705	1.5705			N/A
10/26/2018	EURUSD	9:30:00 AM	1.13717	1.13714			N/A
10/26/2018	EURUSD	11:30:00 AM	1.13681	1.1366			N/A
10/26/2018	EURUSD	1:30:00 PM	1.13584	1.1358			N/A
10/26/2018	EURUSD	3:30:00 PM	1.13489	1.13399			N/A
10/26/2018	EURZAR	9:30:00 AM	16.6061	16.6209			N/A
10/26/2018	EURZAR	11:30:00 AM	16.6557	16.6717			N/A
10/26/2018	EURZAR	1:30:00 PM	16.6879	16.6995			N/A
10/26/2018	EURZAR	3:30:00 PM	16.7004	16.6796			N/A
10/26/2018	GBPAUD	9:30:00 AM	1.82123	1.82132			N/A
10/26/2018	GBPAUD	11:30:00 AM	1.82265	1.82334			N/A
10/26/2018	GBPAUD	1:30:00 PM	1.81991	1.82042			N/A
10/26/2018	GBPAUD	3:30:00 PM	1.81932	1.81915			N/A
10/26/2018	GBPCAD	9:30:00 AM	1.681	1.6813			N/A
10/26/2018	GBPCAD	11:30:00 AM	1.68368	1.68424			N/A
10/26/2018	GBPCAD	1:30:00 PM	1.68094	1.68155			N/A
10/26/2018	GBPCAD	3:30:00 PM	1.68217	1.68218			N/A
10/26/2018	GBPCHF	9:30:00 AM	1.28099	1.28151			N/A
10/26/2018	GBPCHF	11:30:00 AM	1.28097	1.28176			N/A
10/26/2018	GBPCHF	1:30:00 PM	1.28018	1.28085			N/A
10/26/2018	GBPCHF	3:30:00 PM	1.28204	1.28166			N/A
10/26/2018	GBPCZK	9:30:00 AM	29.144	29.16			N/A
10/26/2018	GBPCZK	11:30:00 AM	29.141	29.163			N/A
10/26/2018	GBPCZK	1:30:00 PM	29.119	29.136			N/A
10/26/2018	GBPCZK	3:30:00 PM	29.12	29.131			N/A
10/26/2018	GBPDKK	9:30:00 AM	8.406	8.416			N/A
10/26/2018	GBPDKK	11:30:00 AM	8.405	8.417			N/A
10/26/2018	GBPDKK	1:30:00 PM	8.399	8.41			N/A
10/26/2018	GBPDKK	3:30:00 PM	8.409	8.418			N/A
10/26/2018	GBPHKD	9:30:00 AM	10.0487	10.052			N/A
10/26/2018	GBPHKD	11:30:00 AM	10.0444	10.0481			N/A
10/26/2018	GBPHKD	1:30:00 PM	10.0303	10.0332			N/A
10/26/2018	GBPHKD	3:30:00 PM	10.0281	10.0287			N/A
10/26/2018	GBPHUF	9:30:00 AM	364.98	365.42			N/A
10/26/2018	GBPHUF	11:30:00 AM	365.05	365.54			N/A
10/26/2018	GBPHUF	1:30:00 PM	364.85	365.27			N/A
10/26/2018	GBPHUF	3:30:00 PM	365.37	365.74			N/A
10/26/2018	GBPJPY	9:30:00 AM	143.821	143.826			N/A
10/26/2018	GBPJPY	11:30:00 AM	143.542	143.572			N/A
10/26/2018	GBPJPY	1:30:00 PM	143.249	143.265			N/A
10/26/2018	GBPJPY	3:30:00 PM	143.474	143.363			N/A
10/26/2018	GBPMXN	9:30:00 AM	25.0127	25.0213			N/A

10/26/2018	GBPMXN	11:30:00 AM	25.0289	25.0392			N/A
10/26/2018	GBPMXN	1:30:00 PM	25.0422	25.0435			N/A
10/26/2018	GBPMXN	3:30:00 PM	24.9788	24.9713			N/A
10/26/2018	GBPNOK	9:30:00 AM	10.7057	10.7134			N/A
10/26/2018	GBPNOK	11:30:00 AM	10.7214	10.7298			N/A
10/26/2018	GBPNOK	1:30:00 PM	10.7154	10.7258			N/A
10/26/2018	GBPNOK	3:30:00 PM	10.7251	10.7327			N/A
10/26/2018	GBPNZD	9:30:00 AM	1.97898	1.97929			N/A
10/26/2018	GBPNZD	11:30:00 AM	1.98015	1.98032			N/A
10/26/2018	GBPNZD	1:30:00 PM	1.97732	1.97775			N/A
10/26/2018	GBPNZD	3:30:00 PM	1.97698	1.97679			N/A
10/26/2018	GBPPLN	9:30:00 AM	4.8612	4.8615			N/A
10/26/2018	GBPPLN	11:30:00 AM	4.8588	4.861			N/A
10/26/2018	GBPPLN	1:30:00 PM	4.8584	4.8591			N/A
10/26/2018	GBPPLN	3:30:00 PM	4.8664	4.8659			N/A
10/26/2018	GBPSEK	9:30:00 AM	11.6948	11.7001			N/A
10/26/2018	GBPSEK	11:30:00 AM	11.7162	11.7253			N/A
10/26/2018	GBPSEK	1:30:00 PM	11.7165	11.7227			N/A
10/26/2018	GBPSEK	3:30:00 PM	11.7354	11.7385			N/A
10/26/2018	GBPSGD	9:30:00 AM	1.7735	1.7739			N/A
10/26/2018	GBPSGD	11:30:00 AM	1.7723	1.7729			N/A
10/26/2018	GBPSGD	1:30:00 PM	1.7695	1.77			N/A
10/26/2018	GBPSGD	3:30:00 PM	1.7706	1.7709			N/A
10/26/2018	GBPUSD	9:30:00 AM	1.28215	1.28182			N/A
10/26/2018	GBPUSD	11:30:00 AM	1.28155	1.28132			N/A
10/26/2018	GBPUSD	1:30:00 PM	1.27954	1.2794			N/A
10/26/2018	GBPUSD	3:30:00 PM	1.27957	1.27897			N/A
10/26/2018	GBPZAR	9:30:00 AM	18.7175	18.7364			N/A
10/26/2018	GBPZAR	11:30:00 AM	18.7698	18.795			N/A
10/26/2018	GBPZAR	1:30:00 PM	18.7933	18.8125			N/A
10/26/2018	GBPZAR	3:30:00 PM	18.8311	18.808			N/A
10/26/2018	GOLD	9:30:00 AM	1232.41	1232.51			N/A
10/26/2018	GOLD	11:30:00 AM	1236.2	1236.31			N/A
10/26/2018	GOLD	1:30:00 PM	1236.58	1236.59			N/A
10/26/2018	GOLD	3:30:00 PM	1233.64	1232.84			N/A
10/26/2018	HKDJPY	9:30:00 AM					N/A
10/26/2018	HKDJPY	11:30:00 AM					N/A
10/26/2018	HKDJPY	1:30:00 PM					N/A
10/26/2018	HKDJPY	3:30:00 PM	14.3	14.32			N/A
10/26/2018	HUFJPY	9:30:00 AM	0.3938	0.3941			N/A
10/26/2018	HUFJPY	11:30:00 AM					N/A
10/26/2018	HUFJPY	1:30:00 PM	0.3925	0.3928			N/A
10/26/2018	HUFJPY	3:30:00 PM	0.3922	0.3924			N/A
10/26/2018	MXNJPY	9:30:00 AM					N/A
10/26/2018	MXNJPY	11:30:00 AM					N/A
10/26/2018	MXNJPY	1:30:00 PM					N/A
10/26/2018	MXNJPY	3:30:00 PM	5.75	5.77			N/A
10/26/2018	NOKJPY	9:30:00 AM					N/A
10/26/2018	NOKJPY	11:30:00 AM					N/A
10/26/2018	NOKJPY	1:30:00 PM					N/A

10/26/2018	NOKJPY	3:30:00 PM	13.36	13.4			N/A
10/26/2018	NZDCAD	9:30:00 AM	0.84907	0.84975			N/A
10/26/2018	NZDCAD	11:30:00 AM	0.85008	0.85071			N/A
10/26/2018	NZDCAD	1:30:00 PM	0.84997	0.85044			N/A
10/26/2018	NZDCAD	3:30:00 PM	0.8507	0.85104			N/A
10/26/2018	NZDCHF	9:30:00 AM	0.64701	0.64772			N/A
10/26/2018	NZDCHF	11:30:00 AM	0.64682	0.64739			N/A
10/26/2018	NZDCHF	1:30:00 PM	0.64728	0.64783			N/A
10/26/2018	NZDCHF	3:30:00 PM	0.6483	0.64858			N/A
10/26/2018	NZDCZK	9:30:00 AM	14.722	14.735			N/A
10/26/2018	NZDCZK	11:30:00 AM	14.717	14.725			N/A
10/26/2018	NZDCZK	1:30:00 PM	14.723	14.732			N/A
10/26/2018	NZDCZK	3:30:00 PM	14.728	14.734			N/A
10/26/2018	NZDDKK	9:30:00 AM	4.247	4.251			N/A
10/26/2018	NZDDKK	11:30:00 AM	4.245	4.248			N/A
10/26/2018	NZDDKK	1:30:00 PM	4.248	4.251			N/A
10/26/2018	NZDDKK	3:30:00 PM	4.253	4.256			N/A
10/26/2018	NZDHKD	9:30:00 AM	5.0766	5.0792			N/A
10/26/2018	NZDHKD	11:30:00 AM	5.0712	5.0741			N/A
10/26/2018	NZDHKD	1:30:00 PM	5.0707	5.0718			N/A
10/26/2018	NZDHKD	3:30:00 PM	5.0718	5.0718			N/A
10/26/2018	NZDHUF	9:30:00 AM	184.37	184.66			N/A
10/26/2018	NZDHUF	11:30:00 AM	184.32	184.57			N/A
10/26/2018	NZDHUF	1:30:00 PM	184.44	184.69			N/A
10/26/2018	NZDHUF	3:30:00 PM	184.76	185			N/A
10/26/2018	NZDJPY	9:30:00 AM	72.639	72.705			N/A
10/26/2018	NZDJPY	11:30:00 AM	72.464	72.526			N/A
10/26/2018	NZDJPY	1:30:00 PM	72.422	72.465			N/A
10/26/2018	NZDJPY	3:30:00 PM	72.553	72.551			N/A
10/26/2018	NZDMXN	9:30:00 AM	12.6359	12.6415			N/A
10/26/2018	NZDMXN	11:30:00 AM	12.6366	12.6435			N/A
10/26/2018	NZDMXN	1:30:00 PM	12.6594	12.6603			N/A
10/26/2018	NZDMXN	3:30:00 PM	12.6336	12.6263			N/A
10/26/2018	NZDNOK	9:30:00 AM	5.4081	5.4105			N/A
10/26/2018	NZDNOK	11:30:00 AM	5.414	5.4141			N/A
10/26/2018	NZDNOK	1:30:00 PM	5.4173	5.4205			N/A
10/26/2018	NZDNOK	3:30:00 PM	5.4232	5.425			N/A
10/26/2018	NZDPLN	9:30:00 AM	2.4553	2.4564			N/A
10/26/2018	NZDPLN	11:30:00 AM	2.4533	2.4543			N/A
10/26/2018	NZDPLN	1:30:00 PM	2.4551	2.4564			N/A
10/26/2018	NZDPLN	3:30:00 PM	2.4596	2.4608			N/A
10/26/2018	NZDSEK	9:30:00 AM	5.9054	5.9105			N/A
10/26/2018	NZDSEK	11:30:00 AM	5.914	5.9189			N/A
10/26/2018	NZDSEK	1:30:00 PM	5.9205	5.9259			N/A
10/26/2018	NZDSEK	3:30:00 PM	5.9307	5.9356			N/A
10/26/2018	NZDSGD	9:30:00 AM	0.896	0.8967			N/A
10/26/2018	NZDSGD	11:30:00 AM	0.895	0.8956			N/A
10/26/2018	NZDSGD	1:30:00 PM	0.8949	0.8953			N/A
10/26/2018	NZDSGD	3:30:00 PM	0.8957	0.896			N/A
10/26/2018	NZDUSD	9:30:00 AM	0.64763	0.6476			N/A

10/26/2018	NZDUSD	11:30:00 AM	0.64702	0.64698			N/A
10/26/2018	NZDUSD	1:30:00 PM	0.64699	0.64684			N/A
10/26/2018	NZDUSD	3:30:00 PM	0.64721	0.64674			N/A
10/26/2018	NZDZAR	9:30:00 AM	9.4498	9.4633			N/A
10/26/2018	NZDZAR	11:30:00 AM	9.4738	9.4872			N/A
10/26/2018	NZDZAR	1:30:00 PM	9.497	9.51			N/A
10/26/2018	NZDZAR	3:30:00 PM	9.5118	9.508			N/A
10/26/2018	SEKJPY	9:30:00 AM					N/A
10/26/2018	SEKJPY	11:30:00 AM					N/A
10/26/2018	SEKJPY	1:30:00 PM	12.22	12.24			N/A
10/26/2018	SEKJPY	3:30:00 PM	12.23	12.23			N/A
10/26/2018	SGDJPY	9:30:00 AM	81.06	81.09			N/A
10/26/2018	SGDJPY	11:30:00 AM	80.96	80.99			N/A
10/26/2018	SGDJPY	1:30:00 PM	80.92	80.95			N/A
10/26/2018	SGDJPY	3:30:00 PM	80.99	80.96			N/A
10/26/2018	SILVER	9:30:00 AM	14.44	14.81			N/A
10/26/2018	SILVER	11:30:00 AM	14.49	14.85			N/A
10/26/2018	SILVER	1:30:00 PM	14.5	14.86			N/A
10/26/2018	SILVER	3:30:00 PM	14.42	14.78			N/A
10/26/2018	USDCAD	9:30:00 AM	1.31132	1.31143			N/A
10/26/2018	USDCAD	11:30:00 AM	1.31414	1.31416			N/A
10/26/2018	USDCAD	1:30:00 PM	1.31402	1.31406			N/A
10/26/2018	USDCAD	3:30:00 PM	1.31528	1.3147			N/A
10/26/2018	USDCHF	9:30:00 AM	0.99943	0.9995			N/A
10/26/2018	USDCHF	11:30:00 AM	1.00005	0.99994			N/A
10/26/2018	USDCHF	1:30:00 PM	1.00082	1.00086			N/A
10/26/2018	USDCHF	3:30:00 PM	1.00229	1.00186			N/A
10/26/2018	USDCZK	9:30:00 AM	22.733	22.756			N/A
10/26/2018	USDCZK	11:30:00 AM	22.745	22.766			N/A
10/26/2018	USDCZK	1:30:00 PM	22.757	22.78			N/A
10/26/2018	USDCZK	3:30:00 PM	22.771	22.777			N/A
10/26/2018	USDDKK	9:30:00 AM	6.5605	6.5655			N/A
10/26/2018	USDDKK	11:30:00 AM	6.5636	6.5678			N/A
10/26/2018	USDDKK	1:30:00 PM	6.5683	6.5734			N/A
10/26/2018	USDDKK	3:30:00 PM	6.5788	6.5789			N/A
10/26/2018	USDHKD	9:30:00 AM					N/A
10/26/2018	USDHKD	11:30:00 AM	7.8405	7.841			N/A
10/26/2018	USDHKD	1:30:00 PM	7.8406	7.8411			N/A
10/26/2018	USDHKD	3:30:00 PM	7.8403	7.8407			N/A
10/26/2018	USDHUF	9:30:00 AM	284.77	285.19			N/A
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10/26/2018	USDHUF	1:30:00 PM	285.16	285.62			N/A
10/26/2018	USDHUF	3:30:00 PM	285.76	286			N/A
10/26/2018	USDJPY	9:30:00 AM	112.203	112.191			N/A
10/26/2018	USDJPY	11:30:00 AM	112.041	112.026			N/A
10/26/2018	USDJPY	1:30:00 PM	111.962	111.972			N/A
10/26/2018	USDJPY	3:30:00 PM	112.162	112.066	1000	1000	N/A
10/26/2018	USDMXN	9:30:00 AM	19.515	19.524			N/A
10/26/2018	USDMXN	11:30:00 AM	19.538	19.545			N/A
10/26/2018	USDMXN	1:30:00 PM	19.57	19.576			N/A

10/26/2018	USDMXN	3:30:00 PM	19.537	19.525			N/A
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10/26/2018	USDNOK	11:30:00 AM	8.3691	8.3731			N/A
10/26/2018	USDNOK	1:30:00 PM	8.3766	8.3842			N/A
10/26/2018	USDNOK	3:30:00 PM	8.3866	8.3884			N/A
10/26/2018	USDPLN	9:30:00 AM	3.7917	3.7927			N/A
10/26/2018	USDPLN	11:30:00 AM	3.7923	3.793			N/A
10/26/2018	USDPLN	1:30:00 PM	3.7976	3.7979			N/A
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10/26/2018	USDSEK	9:30:00 AM	9.121	9.1247			N/A
10/26/2018	USDSEK	11:30:00 AM	9.1441	9.1465			N/A
10/26/2018	USDSEK	1:30:00 PM	9.1579	9.1601			N/A
10/26/2018	USDSEK	3:30:00 PM	9.1741	9.1706			N/A
10/26/2018	USDSGD	9:30:00 AM	1.3833	1.3836			N/A
10/26/2018	USDSGD	11:30:00 AM	1.3831	1.3834			N/A
10/26/2018	USDSGD	1:30:00 PM	1.383	1.3834			N/A
10/26/2018	USDSGD	3:30:00 PM	1.3842	1.3842			N/A
10/26/2018	USDZAR	9:30:00 AM	14.6014	14.6156			N/A
10/26/2018	USDZAR	11:30:00 AM	14.6517	14.6639			N/A
10/26/2018	USDZAR	1:30:00 PM	14.6895	14.7027			N/A
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10/26/2018	XAUUSD	1:30:00 PM	1236.58	1236.58			N/A
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10/29/2018	#ZNGA	1:30:00 PM					N/A
10/29/2018	#ZNGA	3:30:00 PM					N/A
10/29/2018	AUDCAD	9:30:00 AM	0.93012	0.93055			N/A

10/29/2018	AUDCAD	11:30:00 AM	0.92923	0.92985			N/A
10/29/2018	AUDCAD	1:30:00 PM	0.92851	0.92897			N/A
10/29/2018	AUDCAD	3:30:00 PM	0.92757	0.92814			N/A
10/29/2018	AUDCHF	9:30:00 AM	0.70798	0.70856			N/A
10/29/2018	AUDCHF	11:30:00 AM	0.70938	0.70996			N/A
10/29/2018	AUDCHF	1:30:00 PM	0.70869	0.70912			N/A
10/29/2018	AUDCHF	3:30:00 PM	0.70835	0.709			N/A
10/29/2018	AUDCZK	9:30:00 AM	16.046	16.06			N/A
10/29/2018	AUDCZK	11:30:00 AM	16.084	16.096			N/A
10/29/2018	AUDCZK	1:30:00 PM	16.046	16.058			N/A
10/29/2018	AUDCZK	3:30:00 PM	16.082	16.097			N/A
10/29/2018	AUDDKK	9:30:00 AM	4.6398	4.6435			N/A
10/29/2018	AUDDKK	11:30:00 AM	4.6499	4.654			N/A
10/29/2018	AUDDKK	1:30:00 PM	4.6374	4.6407			N/A
10/29/2018	AUDDKK	3:30:00 PM	4.6432	4.6474			N/A
10/29/2018	AUDHKD	9:30:00 AM	5.565	5.5674			N/A
10/29/2018	AUDHKD	11:30:00 AM	5.5602	5.5635			N/A
10/29/2018	AUDHKD	1:30:00 PM	5.5624	5.5639			N/A
10/29/2018	AUDHKD	3:30:00 PM	5.5537	5.5568			N/A
10/29/2018	AUDHUF	9:30:00 AM	201.46	201.67			N/A
10/29/2018	AUDHUF	11:30:00 AM	202.11	202.3			N/A
10/29/2018	AUDHUF	1:30:00 PM	201.42	201.62			N/A
10/29/2018	AUDHUF	3:30:00 PM	201.86	202.09			N/A
10/29/2018	AUDJPY	9:30:00 AM	79.432	79.484			N/A
10/29/2018	AUDJPY	11:30:00 AM	79.45	79.511			N/A
10/29/2018	AUDJPY	1:30:00 PM	79.671	79.71			N/A
10/29/2018	AUDJPY	3:30:00 PM	79.626	79.658			N/A
10/29/2018	AUDMXN	9:30:00 AM	13.8869	13.893			N/A
10/29/2018	AUDMXN	11:30:00 AM	13.9216	13.9287			N/A
10/29/2018	AUDMXN	1:30:00 PM	13.8969	13.8926			N/A
10/29/2018	AUDMXN	3:30:00 PM	13.9554	13.9624			N/A
10/29/2018	AUDNOK	9:30:00 AM	5.9186	5.9236			N/A
10/29/2018	AUDNOK	11:30:00 AM	5.9281	5.9322			N/A
10/29/2018	AUDNOK	1:30:00 PM	5.9092	5.9135			N/A
10/29/2018	AUDNOK	3:30:00 PM	5.9187	5.9243			N/A
10/29/2018	AUDNZD	9:30:00 AM	1.08478	1.08547			N/A
10/29/2018	AUDNZD	11:30:00 AM	1.08385	1.08449			N/A
10/29/2018	AUDNZD	1:30:00 PM	1.08338	1.0839			N/A
10/29/2018	AUDNZD	3:30:00 PM	1.08324	1.08391			N/A
10/29/2018	AUDPLN	9:30:00 AM	2.6783	2.6809			N/A
10/29/2018	AUDPLN	11:30:00 AM	2.687	2.6899			N/A
10/29/2018	AUDPLN	1:30:00 PM	2.6817	2.6843			N/A
10/29/2018	AUDPLN	3:30:00 PM	2.6885	2.6916			N/A
10/29/2018	AUDSEK	9:30:00 AM	6.4766	6.4785			N/A
10/29/2018	AUDSEK	11:30:00 AM	6.485	6.4876			N/A
10/29/2018	AUDSEK	1:30:00 PM	6.458	6.4599			N/A
10/29/2018	AUDSEK	3:30:00 PM	6.4655	6.4677			N/A
10/29/2018	AUDSGD	9:30:00 AM	0.9801	0.9803			N/A
10/29/2018	AUDSGD	11:30:00 AM	0.9807	0.9811			N/A
10/29/2018	AUDSGD	1:30:00 PM	0.9799	0.9801			N/A

10/29/2018	AUDSGD	3:30:00 PM	0.9795	0.9796			N/A
10/29/2018	AUDUSD	9:30:00 AM	0.71001	0.70974			N/A
10/29/2018	AUDUSD	11:30:00 AM	0.70932	0.70932			N/A
10/29/2018	AUDUSD	1:30:00 PM	0.70949	0.70929			N/A
10/29/2018	AUDUSD	3:30:00 PM	0.70854	0.70844			N/A
10/29/2018	AUDZAR	9:30:00 AM	10.3289	10.3386			N/A
10/29/2018	AUDZAR	11:30:00 AM	10.3202	10.3329			N/A
10/29/2018	AUDZAR	1:30:00 PM	10.2597	10.2662			N/A
10/29/2018	AUDZAR	3:30:00 PM	10.2779	10.2871			N/A
10/29/2018	CADCHF	9:30:00 AM	0.76107	0.76158			N/A
10/29/2018	CADCHF	11:30:00 AM	0.7631	0.76372			N/A
10/29/2018	CADCHF	1:30:00 PM	0.76296	0.76358			N/A
10/29/2018	CADCHF	3:30:00 PM	0.7635	0.76405			N/A
10/29/2018	CADCZK	9:30:00 AM	17.255	17.267			N/A
10/29/2018	CADCZK	11:30:00 AM	17.308	17.323			N/A
10/29/2018	CADCZK	1:30:00 PM	17.28	17.295			N/A
10/29/2018	CADCZK	3:30:00 PM	17.34	17.352			N/A
10/29/2018	CADDDKK	9:30:00 AM	4.989	4.992			N/A
10/29/2018	CADDDKK	11:30:00 AM	5.004	5.007			N/A
10/29/2018	CADDDKK	1:30:00 PM					N/A
10/29/2018	CADDDKK	3:30:00 PM					N/A
10/29/2018	CADHKD	9:30:00 AM	5.983	5.9868			N/A
10/29/2018	CADHKD	11:30:00 AM	5.9826	5.9864			N/A
10/29/2018	CADHKD	1:30:00 PM	5.99	5.9936			N/A
10/29/2018	CADHKD	3:30:00 PM	5.9872	5.9903			N/A
10/29/2018	CADHUF	9:30:00 AM	216.66	216.79			N/A
10/29/2018	CADHUF	11:30:00 AM	217.5	217.66			N/A
10/29/2018	CADHUF	1:30:00 PM	216.96	217.11			N/A
10/29/2018	CADHUF	3:30:00 PM	217.67	217.8			N/A
10/29/2018	CADJPY	9:30:00 AM	85.38	85.432			N/A
10/29/2018	CADJPY	11:30:00 AM	85.47	85.536			N/A
10/29/2018	CADJPY	1:30:00 PM	85.776	85.837			N/A
10/29/2018	CADJPY	3:30:00 PM	85.826	85.847			N/A
10/29/2018	CADMXN	9:30:00 AM	14.9339	14.9411			N/A
10/29/2018	CADMXN	11:30:00 AM	14.9809	14.9912			N/A
10/29/2018	CADMXN	1:30:00 PM	14.9679	14.9662			N/A
10/29/2018	CADMXN	3:30:00 PM	15.0458	15.0526			N/A
10/29/2018	CADNOK	9:30:00 AM	6.365	6.3686			N/A
10/29/2018	CADNOK	11:30:00 AM	6.3792	6.3833			N/A
10/29/2018	CADNOK	1:30:00 PM	6.3642	6.3687			N/A
10/29/2018	CADNOK	3:30:00 PM	6.3812	6.3856			N/A
10/29/2018	CADPLN	9:30:00 AM	2.8797	2.8816			N/A
10/29/2018	CADPLN	11:30:00 AM	2.891	2.8929			N/A
10/29/2018	CADPLN	1:30:00 PM	2.8873	2.8891			N/A
10/29/2018	CADPLN	3:30:00 PM	2.8981	2.9001			N/A
10/29/2018	CADSEK	9:30:00 AM	6.9623	6.9645			N/A
10/29/2018	CADSEK	11:30:00 AM	6.9767	6.9797			N/A
10/29/2018	CADSEK	1:30:00 PM	6.9529	6.9568			N/A
10/29/2018	CADSEK	3:30:00 PM	6.9687	6.9714			N/A
10/29/2018	CADSGD	9:30:00 AM	1.0536	1.0539			N/A

10/29/2018	CADSGD	11:30:00 AM	1.055	1.0552			N/A
10/29/2018	CADSGD	1:30:00 PM	1.0555	1.0557			N/A
10/29/2018	CADSGD	3:30:00 PM	1.0555	1.0558			N/A
10/29/2018	CADZAR	9:30:00 AM	11.0955	11.1111			N/A
10/29/2018	CADZAR	11:30:00 AM	11.0974	11.114			N/A
10/29/2018	CADZAR	1:30:00 PM	11.0412	11.0526			N/A
10/29/2018	CADZAR	3:30:00 PM	11.0741	11.0859			N/A
10/29/2018	CHFCZK	9:30:00 AM	22.666	22.682			N/A
10/29/2018	CHFCZK	11:30:00 AM	22.676	22.688			N/A
10/29/2018	CHFCZK	1:30:00 PM	22.643	22.658			N/A
10/29/2018	CHFCZK	3:30:00 PM	22.705	22.72			N/A
10/29/2018	CHFDKK	9:30:00 AM	6.552	6.556			N/A
10/29/2018	CHFDKK	11:30:00 AM	6.554	6.557			N/A
10/29/2018	CHFDKK	1:30:00 PM	6.543	6.547			N/A
10/29/2018	CHFDKK	3:30:00 PM					N/A
10/29/2018	CHFHKD	9:30:00 AM	7.8602	7.8622			N/A
10/29/2018	CHFHKD	11:30:00 AM	7.8383	7.8423			N/A
10/29/2018	CHFHKD	1:30:00 PM	7.8479	7.8517			N/A
10/29/2018	CHFHKD	3:30:00 PM	7.8409	7.843			N/A
10/29/2018	CHFHUF	9:30:00 AM	284.49	284.87			N/A
10/29/2018	CHFHUF	11:30:00 AM	284.85	285.21			N/A
10/29/2018	CHFHUF	1:30:00 PM	284.2	284.53			N/A
10/29/2018	CHFHUF	3:30:00 PM	284.92	285.29			N/A
10/29/2018	CHFJPY	9:30:00 AM	112.169	112.18			N/A
10/29/2018	CHFJPY	11:30:00 AM	111.977	111.991			N/A
10/29/2018	CHFJPY	1:30:00 PM	112.388	112.397			N/A
10/29/2018	CHFJPY	3:30:00 PM	112.37	112.38			N/A
10/29/2018	CHFMXN	9:30:00 AM	19.611	19.6245			N/A
10/29/2018	CHFMXN	11:30:00 AM	19.6226	19.6345			N/A
10/29/2018	CHFMXN	1:30:00 PM	19.6111	19.6053			N/A
10/29/2018	CHFMXN	3:30:00 PM	19.6969	19.7102			N/A
10/29/2018	CHFNOK	9:30:00 AM	8.359	8.3674			N/A
10/29/2018	CHFNOK	11:30:00 AM	8.3562	8.363			N/A
10/29/2018	CHFNOK	1:30:00 PM	8.3376	8.3447			N/A
10/29/2018	CHFNOK	3:30:00 PM	8.355	8.3622			N/A
10/29/2018	CHFPLN	9:30:00 AM	3.7818	3.7848			N/A
10/29/2018	CHFPLN	11:30:00 AM	3.7868	3.7898			N/A
10/29/2018	CHFPLN	1:30:00 PM	3.7834	3.7861			N/A
10/29/2018	CHFPLN	3:30:00 PM	3.7945	3.7977			N/A
10/29/2018	CHFSEK	9:30:00 AM	9.1473	9.1498			N/A
10/29/2018	CHFSEK	11:30:00 AM	9.141	9.1427			N/A
10/29/2018	CHFSEK	1:30:00 PM	9.1121	9.1151			N/A
10/29/2018	CHFSEK	3:30:00 PM	9.1269	9.1283			N/A
10/29/2018	CHFSGD	9:30:00 AM	1.3839	1.3841			N/A
10/29/2018	CHFSGD	11:30:00 AM	1.3821	1.3825			N/A
10/29/2018	CHFSGD	1:30:00 PM	1.3824	1.3829			N/A
10/29/2018	CHFSGD	3:30:00 PM	1.3824	1.3825			N/A
10/29/2018	CHFZAR	9:30:00 AM	14.5804	14.5907			N/A
10/29/2018	CHFZAR	11:30:00 AM	14.5423	14.5544			N/A
10/29/2018	CHFZAR	1:30:00 PM	14.4707	14.4764			N/A

10/29/2018	CHFZAR	3:30:00 PM	14.5031	14.5131			N/A
10/29/2018	CZKJPY	9:30:00 AM	4.948	4.951			N/A
10/29/2018	CZKJPY	11:30:00 AM	4.937	4.941			N/A
10/29/2018	CZKJPY	1:30:00 PM					N/A
10/29/2018	CZKJPY	3:30:00 PM	4.948	4.951			N/A
10/29/2018	DKKJPY	9:30:00 AM					N/A
10/29/2018	DKKJPY	11:30:00 AM	17.09	17.1			N/A
10/29/2018	DKKJPY	1:30:00 PM					N/A
10/29/2018	DKKJPY	3:30:00 PM	17.15	17.16			N/A
10/29/2018	EURAUD	9:30:00 AM	1.60725	1.60679			N/A
10/29/2018	EURAUD	11:30:00 AM	1.60378	1.60342			N/A
10/29/2018	EURAUD	1:30:00 PM	1.6082	1.60794			N/A
10/29/2018	EURAUD	3:30:00 PM	1.60601	1.60574			N/A
10/29/2018	EURCAD	9:30:00 AM	1.49549	1.4956			N/A
10/29/2018	EURCAD	11:30:00 AM	1.49094	1.4912			N/A
10/29/2018	EURCAD	1:30:00 PM	1.49378	1.49414			N/A
10/29/2018	EURCAD	3:30:00 PM	1.49037	1.49058			N/A
10/29/2018	EURCHF	9:30:00 AM	1.13841	1.13843			N/A
10/29/2018	EURCHF	11:30:00 AM	1.13827	1.13814			N/A
10/29/2018	EURCHF	1:30:00 PM	1.14022	1.14018			N/A
10/29/2018	EURCHF	3:30:00 PM	1.13823	1.13822			N/A
10/29/2018	EURCZK	9:30:00 AM	25.799	25.831			N/A
10/29/2018	EURCZK	11:30:00 AM	25.798	25.835			N/A
10/29/2018	EURCZK	1:30:00 PM	25.806	25.844			N/A
10/29/2018	EURCZK	3:30:00 PM	25.836	25.869			N/A
10/29/2018	EURDKK	9:30:00 AM	7.4601	7.4613			N/A
10/29/2018	EURDKK	11:30:00 AM	7.4602	7.4614			N/A
10/29/2018	EURDKK	1:30:00 PM	7.4607	7.4619			N/A
10/29/2018	EURDKK	3:30:00 PM	7.4605	7.4614			N/A
10/29/2018	EURGBP	9:30:00 AM	0.88886	0.88857			N/A
10/29/2018	EURGBP	11:30:00 AM	0.88764	0.88771			N/A
10/29/2018	EURGBP	1:30:00 PM	0.88825	0.88826			N/A
10/29/2018	EURGBP	3:30:00 PM	0.88772	0.88767			N/A
10/29/2018	EURHKD	9:30:00 AM	8.9473	8.9494			N/A
10/29/2018	EURHKD	11:30:00 AM	8.9205	8.9241			N/A
10/29/2018	EURHKD	1:30:00 PM	8.9472	8.9504			N/A
10/29/2018	EURHKD	3:30:00 PM	8.9241	8.9266			N/A
10/29/2018	EURHUF	9:30:00 AM	323.8	324.44			N/A
10/29/2018	EURHUF	11:30:00 AM	324.09	324.81			N/A
10/29/2018	EURHUF	1:30:00 PM	323.91	324.62			N/A
10/29/2018	EURHUF	3:30:00 PM	324.17	324.87			N/A
10/29/2018	EURJPY	9:30:00 AM	127.734	127.696			N/A
10/29/2018	EURJPY	11:30:00 AM	127.489	127.457			N/A
10/29/2018	EURJPY	1:30:00 PM	128.186	128.151			N/A
10/29/2018	EURJPY	3:30:00 PM	127.94	127.888			N/A
10/29/2018	EURMXN	9:30:00 AM	22.3277	22.3425			N/A
10/29/2018	EURMXN	11:30:00 AM	22.3384	22.3499			N/A
10/29/2018	EURMXN	1:30:00 PM	22.3592	22.3571			N/A
10/29/2018	EURMXN	3:30:00 PM	22.4199	22.4341			N/A
10/29/2018	EURNOK	9:30:00 AM	9.5145	9.5272			N/A

10/29/2018	EURNOK	11:30:00 AM	9.5084	9.5213			N/A
10/29/2018	EURNOK	1:30:00 PM	9.5045	9.5167			N/A
10/29/2018	EURNOK	3:30:00 PM	9.509	9.5196			N/A
10/29/2018	EURNZD	9:30:00 AM	1.74413	1.74457			N/A
10/29/2018	EURNZD	11:30:00 AM	1.7389	1.73927			N/A
10/29/2018	EURNZD	1:30:00 PM	1.74276	1.74343			N/A
10/29/2018	EURNZD	3:30:00 PM	1.74021	1.74093			N/A
10/29/2018	EURPLN	9:30:00 AM	4.3055	4.3086			N/A
10/29/2018	EURPLN	11:30:00 AM	4.3104	4.3134			N/A
10/29/2018	EURPLN	1:30:00 PM	4.3138	4.3169			N/A
10/29/2018	EURPLN	3:30:00 PM	4.3193	4.3222			N/A
10/29/2018	EURRUR	9:30:00 AM					N/A
10/29/2018	EURRUR	11:30:00 AM	74.51	74.942			N/A
10/29/2018	EURRUR	1:30:00 PM	74.495	74.898			N/A
10/29/2018	EURRUR	3:30:00 PM	74.365	74.771			N/A
10/29/2018	EURSEK	9:30:00 AM	10.4118	10.4158			N/A
10/29/2018	EURSEK	11:30:00 AM	10.4039	10.406			N/A
10/29/2018	EURSEK	1:30:00 PM	10.3877	10.3929			N/A
10/29/2018	EURSEK	3:30:00 PM	10.3877	10.3893			N/A
10/29/2018	EURSGD	9:30:00 AM	1.5753	1.5759			N/A
10/29/2018	EURSGD	11:30:00 AM	1.573	1.5736			N/A
10/29/2018	EURSGD	1:30:00 PM	1.5761	1.5767			N/A
10/29/2018	EURSGD	3:30:00 PM	1.5734	1.5737			N/A
10/29/2018	EURUSD	9:30:00 AM	1.14104	1.14065		10	N/A
10/29/2018	EURUSD	11:30:00 AM	1.13752	1.13742			N/A
10/29/2018	EURUSD	1:30:00 PM	1.14091	1.14072			N/A
10/29/2018	EURUSD	3:30:00 PM	1.13787	1.13762			N/A
10/29/2018	EURZAR	9:30:00 AM	16.6037	16.6155			N/A
10/29/2018	EURZAR	11:30:00 AM	16.5568	16.5703			N/A
10/29/2018	EURZAR	1:30:00 PM	16.5048	16.508			N/A
10/29/2018	EURZAR	3:30:00 PM	16.5109	16.5214			N/A
10/29/2018	GBPAUD	9:30:00 AM	1.80867	1.80859			N/A
10/29/2018	GBPAUD	11:30:00 AM	1.80666	1.80711			N/A
10/29/2018	GBPAUD	1:30:00 PM	1.81078	1.81082			N/A
10/29/2018	GBPAUD	3:30:00 PM	1.80911	1.80974			N/A
10/29/2018	GBPCAD	9:30:00 AM	1.68238	1.68275			N/A
10/29/2018	GBPCAD	11:30:00 AM	1.67936	1.67986			N/A
10/29/2018	GBPCAD	1:30:00 PM	1.6815	1.68203			N/A
10/29/2018	GBPCAD	3:30:00 PM	1.6786	1.67923			N/A
10/29/2018	GBPCHF	9:30:00 AM	1.28085	1.28115			N/A
10/29/2018	GBPCHF	11:30:00 AM	1.28192	1.28255			N/A
10/29/2018	GBPCHF	1:30:00 PM	1.28323	1.28396			N/A
10/29/2018	GBPCHF	3:30:00 PM	1.28213	1.28245			N/A
10/29/2018	GBPCZK	9:30:00 AM	29.034	29.044			N/A
10/29/2018	GBPCZK	11:30:00 AM	29.066	29.086			N/A
10/29/2018	GBPCZK	1:30:00 PM	29.058	29.078			N/A
10/29/2018	GBPCZK	3:30:00 PM	29.108	29.125			N/A
10/29/2018	GBPDKK	9:30:00 AM	8.391	8.401			N/A
10/29/2018	GBPDKK	11:30:00 AM	8.401	8.412			N/A
10/29/2018	GBPDKK	1:30:00 PM	8.396	8.407			N/A

10/29/2018	GBPDKK	3:30:00 PM	8.402	8.412			N/A
10/29/2018	GBPHKD	9:30:00 AM	10.0656	10.0683			N/A
10/29/2018	GBPHKD	11:30:00 AM	10.0479	10.0525			N/A
10/29/2018	GBPHKD	1:30:00 PM	10.0709	10.0757			N/A
10/29/2018	GBPHKD	3:30:00 PM	10.0507	10.0559			N/A
10/29/2018	GBPHUF	9:30:00 AM	364.42	364.77			N/A
10/29/2018	GBPHUF	11:30:00 AM	365.14	365.61			N/A
10/29/2018	GBPHUF	1:30:00 PM	364.7	365.1			N/A
10/29/2018	GBPHUF	3:30:00 PM	365.26	365.72			N/A
10/29/2018	GBPJPY	9:30:00 AM	143.708	143.698			N/A
10/29/2018	GBPJPY	11:30:00 AM	143.603	143.619			N/A
10/29/2018	GBPJPY	1:30:00 PM	144.288	144.31			N/A
10/29/2018	GBPJPY	3:30:00 PM	144.124	144.096			N/A
10/29/2018	GBPMXN	9:30:00 AM	25.1205	25.125			N/A
10/29/2018	GBPMXN	11:30:00 AM	25.1579	25.1652			N/A
10/29/2018	GBPMXN	1:30:00 PM	25.1687	25.156			N/A
10/29/2018	GBPMXN	3:30:00 PM	25.2563	25.264			N/A
10/29/2018	GBPNOK	9:30:00 AM	10.7093	10.7166			N/A
10/29/2018	GBPNOK	11:30:00 AM	10.7134	10.7245			N/A
10/29/2018	GBPNOK	1:30:00 PM	10.702	10.7125			N/A
10/29/2018	GBPNOK	3:30:00 PM	10.7131	10.7233			N/A
10/29/2018	GBPNZD	9:30:00 AM	1.96282	1.96271			N/A
10/29/2018	GBPNZD	11:30:00 AM	1.95896	1.95919			N/A
10/29/2018	GBPNZD	1:30:00 PM	1.96226	1.96256			N/A
10/29/2018	GBPNZD	3:30:00 PM	1.96054	1.96112			N/A
10/29/2018	GBPPLN	9:30:00 AM	4.8464	4.8464			N/A
10/29/2018	GBPPLN	11:30:00 AM	4.8565	4.8585			N/A
10/29/2018	GBPPLN	1:30:00 PM	4.8577	4.859			N/A
10/29/2018	GBPPLN	3:30:00 PM	4.8667	4.8679			N/A
10/29/2018	GBPSEK	9:30:00 AM	11.7151	11.7196			N/A
10/29/2018	GBPSEK	11:30:00 AM	11.7179	11.7246			N/A
10/29/2018	GBPSEK	1:30:00 PM	11.693	11.7014			N/A
10/29/2018	GBPSEK	3:30:00 PM	11.6991	11.7058			N/A
10/29/2018	GBPSGD	9:30:00 AM	1.7728	1.7731			N/A
10/29/2018	GBPSGD	11:30:00 AM	1.7721	1.7727			N/A
10/29/2018	GBPSGD	1:30:00 PM	1.7744	1.7751			N/A
10/29/2018	GBPSGD	3:30:00 PM	1.7723	1.7728			N/A
10/29/2018	GBPUSD	9:30:00 AM	1.28393	1.28353			N/A
10/29/2018	GBPUSD	11:30:00 AM	1.28166	1.28151			N/A
10/29/2018	GBPUSD	1:30:00 PM	1.28455	1.28442			N/A
10/29/2018	GBPUSD	3:30:00 PM	1.28186	1.28175			N/A
10/29/2018	GBPZAR	9:30:00 AM	18.6752	18.7001			N/A
10/29/2018	GBPZAR	11:30:00 AM	18.6473	18.6712			N/A
10/29/2018	GBPZAR	1:30:00 PM	18.5788	18.587			N/A
10/29/2018	GBPZAR	3:30:00 PM	18.5974	18.6133			N/A
10/29/2018	GOLD	9:30:00 AM	1231.35	1231.3			N/A
10/29/2018	GOLD	11:30:00 AM	1228.67	1228.77			N/A
10/29/2018	GOLD	1:30:00 PM	1229.32	1229.45			N/A
10/29/2018	GOLD	3:30:00 PM	1230.75	1230.29			N/A
10/29/2018	HKDJPY	9:30:00 AM					N/A

10/29/2018	HKDJPY	11:30:00 AM					N/A
10/29/2018	HKDJPY	1:30:00 PM					N/A
10/29/2018	HKDJPY	3:30:00 PM	14.34	14.35			N/A
10/29/2018	HUFJPY	9:30:00 AM	0.3941	0.3943			N/A
10/29/2018	HUFJPY	11:30:00 AM	0.3929	0.3932			N/A
10/29/2018	HUFJPY	1:30:00 PM	0.3954	0.3957			N/A
10/29/2018	HUFJPY	3:30:00 PM	0.3944	0.3947			N/A
10/29/2018	MXNJPY	9:30:00 AM					N/A
10/29/2018	MXNJPY	11:30:00 AM					N/A
10/29/2018	MXNJPY	1:30:00 PM	5.73	5.75			N/A
10/29/2018	MXNJPY	3:30:00 PM	5.71	5.72			N/A
10/29/2018	NOKJPY	9:30:00 AM	13.41	13.44			N/A
10/29/2018	NOKJPY	11:30:00 AM					N/A
10/29/2018	NOKJPY	1:30:00 PM					N/A
10/29/2018	NOKJPY	3:30:00 PM					N/A
10/29/2018	NZDCAD	9:30:00 AM	0.85704	0.8575			N/A
10/29/2018	NZDCAD	11:30:00 AM	0.85702	0.85768			N/A
10/29/2018	NZDCAD	1:30:00 PM	0.85666	0.8573			N/A
10/29/2018	NZDCAD	3:30:00 PM	0.85594	0.85651			N/A
10/29/2018	NZDCHF	9:30:00 AM	0.65233	0.65295			N/A
10/29/2018	NZDCHF	11:30:00 AM	0.65421	0.65481			N/A
10/29/2018	NZDCHF	1:30:00 PM	0.65381	0.65444			N/A
10/29/2018	NZDCHF	3:30:00 PM	0.6536	0.65429			N/A
10/29/2018	NZDCZK	9:30:00 AM	14.788	14.798			N/A
10/29/2018	NZDCZK	11:30:00 AM	14.836	14.844			N/A
10/29/2018	NZDCZK	1:30:00 PM	14.806	14.817			N/A
10/29/2018	NZDCZK	3:30:00 PM	14.842	14.854			N/A
10/29/2018	NZDDKK	9:30:00 AM					N/A
10/29/2018	NZDDKK	11:30:00 AM					N/A
10/29/2018	NZDDKK	1:30:00 PM	4.278	4.282			N/A
10/29/2018	NZDDKK	3:30:00 PM					N/A
10/29/2018	NZDHKD	9:30:00 AM	5.1273	5.1296			N/A
10/29/2018	NZDHKD	11:30:00 AM	5.1276	5.1299			N/A
10/29/2018	NZDHKD	1:30:00 PM	5.1318	5.134			N/A
10/29/2018	NZDHKD	3:30:00 PM	5.1251	5.1271			N/A
10/29/2018	NZDHUF	9:30:00 AM	185.59	185.87			N/A
10/29/2018	NZDHUF	11:30:00 AM	186.35	186.61			N/A
10/29/2018	NZDHUF	1:30:00 PM	185.79	186.08			N/A
10/29/2018	NZDHUF	3:30:00 PM	186.23	186.52			N/A
10/29/2018	NZDJPY	9:30:00 AM	73.189	73.243			N/A
10/29/2018	NZDJPY	11:30:00 AM	73.271	73.336			N/A
10/29/2018	NZDJPY	1:30:00 PM	73.506	73.562			N/A
10/29/2018	NZDJPY	3:30:00 PM	73.473	73.516			N/A
10/29/2018	NZDMXN	9:30:00 AM	12.7971	12.7995			N/A
10/29/2018	NZDMXN	11:30:00 AM	12.8391	12.8444			N/A
10/29/2018	NZDMXN	1:30:00 PM	12.8248	12.8173			N/A
10/29/2018	NZDMXN	3:30:00 PM	12.877	12.8817			N/A
10/29/2018	NZDNOK	9:30:00 AM	5.454	5.4578			N/A
10/29/2018	NZDNOK	11:30:00 AM	5.4673	5.4703			N/A
10/29/2018	NZDNOK	1:30:00 PM	5.4528	5.4559			N/A

10/29/2018	NZDNOK	3:30:00 PM	5.4617	5.4656			N/A
10/29/2018	NZDPLN	9:30:00 AM	2.4677	2.469			N/A
10/29/2018	NZDPLN	11:30:00 AM	2.478	2.4793			N/A
10/29/2018	NZDPLN	1:30:00 PM	2.4741	2.4755			N/A
10/29/2018	NZDPLN	3:30:00 PM	2.4808	2.4821			N/A
10/29/2018	NZDSEK	9:30:00 AM	5.9645	5.9707			N/A
10/29/2018	NZDSEK	11:30:00 AM	5.9771	5.9839			N/A
10/29/2018	NZDSEK	1:30:00 PM	5.9558	5.9616			N/A
10/29/2018	NZDSEK	3:30:00 PM	5.9632	5.9687			N/A
10/29/2018	NZDSGD	9:30:00 AM	0.9032	0.9037			N/A
10/29/2018	NZDSGD	11:30:00 AM	0.9045	0.9052			N/A
10/29/2018	NZDSGD	1:30:00 PM	0.9042	0.9049			N/A
10/29/2018	NZDSGD	3:30:00 PM	0.904	0.9045			N/A
10/29/2018	NZDUSD	9:30:00 AM	0.65411	0.65384			N/A
10/29/2018	NZDUSD	11:30:00 AM	0.65407	0.65403			N/A
10/29/2018	NZDUSD	1:30:00 PM	0.65452	0.65439			N/A
10/29/2018	NZDUSD	3:30:00 PM	0.65369	0.65366			N/A
10/29/2018	NZDZAR	9:30:00 AM	9.5075	9.5222			N/A
10/29/2018	NZDZAR	11:30:00 AM	9.5088	9.5255			N/A
10/29/2018	NZDZAR	1:30:00 PM	9.4578	9.4698			N/A
10/29/2018	NZDZAR	3:30:00 PM	9.4759	9.4902			N/A
10/29/2018	SEKJPY	9:30:00 AM	12.27	12.28			N/A
10/29/2018	SEKJPY	11:30:00 AM					N/A
10/29/2018	SEKJPY	1:30:00 PM					N/A
10/29/2018	SEKJPY	3:30:00 PM	12.32	12.33			N/A
10/29/2018	SGDJPY	9:30:00 AM	81.03	81.05			N/A
10/29/2018	SGDJPY	11:30:00 AM	81	81.03			N/A
10/29/2018	SGDJPY	1:30:00 PM	81.28	81.31			N/A
10/29/2018	SGDJPY	3:30:00 PM	81.28	81.29			N/A
10/29/2018	SILVER	9:30:00 AM	14.45	14.82			N/A
10/29/2018	SILVER	11:30:00 AM	14.39	14.75			N/A
10/29/2018	SILVER	1:30:00 PM	14.48	14.85			N/A
10/29/2018	SILVER	3:30:00 PM	14.48	14.85			N/A
10/29/2018	USDCAD	9:30:00 AM	1.31072	1.31065			N/A
10/29/2018	USDCAD	11:30:00 AM	1.31056	1.31065			N/A
10/29/2018	USDCAD	1:30:00 PM	1.30927	1.30924			N/A
10/29/2018	USDCAD	3:30:00 PM	1.30984	1.30977			N/A
10/29/2018	USDCHF	9:30:00 AM	0.99793	0.99769			N/A
10/29/2018	USDCHF	11:30:00 AM	1.00051	1.0005			N/A
10/29/2018	USDCHF	1:30:00 PM	0.99933	0.99931			N/A
10/29/2018	USDCHF	3:30:00 PM	1.00039	1.00027			N/A
10/29/2018	USDCZK	9:30:00 AM	22.617	22.631			N/A
10/29/2018	USDCZK	11:30:00 AM	22.68	22.702			N/A
10/29/2018	USDCZK	1:30:00 PM	22.625	22.646			N/A
10/29/2018	USDCZK	3:30:00 PM	22.708	22.73			N/A
10/29/2018	USDDKK	9:30:00 AM	6.5404	6.5435			N/A
10/29/2018	USDDKK	11:30:00 AM	6.5595	6.5638			N/A
10/29/2018	USDDKK	1:30:00 PM	6.5405	6.5445			N/A
10/29/2018	USDDKK	3:30:00 PM	6.5583	6.562			N/A
10/29/2018	USDHKD	9:30:00 AM					N/A

10/29/2018	USDHKD	11:30:00 AM	7.8427	7.8431			N/A
10/29/2018	USDHKD	1:30:00 PM	7.8429	7.8434			N/A
10/29/2018	USDHKD	3:30:00 PM	7.8436	7.8441			N/A
10/29/2018	USDHUF	9:30:00 AM	283.94	284.33			N/A
10/29/2018	USDHUF	11:30:00 AM	284.99	285.42			N/A
10/29/2018	USDHUF	1:30:00 PM	284.03	284.41			N/A
10/29/2018	USDHUF	3:30:00 PM	284.99	285.4			N/A
10/29/2018	USDJPY	9:30:00 AM	111.954	111.926			N/A
10/29/2018	USDJPY	11:30:00 AM	112.064	112.065			N/A
10/29/2018	USDJPY	1:30:00 PM	112.353	112.346			N/A
10/29/2018	USDJPY	3:30:00 PM	112.45	112.414			N/A
10/29/2018	USDMXN	9:30:00 AM	19.576	19.576			N/A
10/29/2018	USDMXN	11:30:00 AM	19.638	19.642			N/A
10/29/2018	USDMXN	1:30:00 PM	19.605	19.588			N/A
10/29/2018	USDMXN	3:30:00 PM	19.71	19.71			N/A
10/29/2018	USDNOK	9:30:00 AM	8.3425	8.3486			N/A
10/29/2018	USDNOK	11:30:00 AM	8.3608	8.3689			N/A
10/29/2018	USDNOK	1:30:00 PM	8.3327	8.3401			N/A
10/29/2018	USDNOK	3:30:00 PM	8.3581	8.3665			N/A
10/29/2018	USDPLN	9:30:00 AM	3.7748	3.7749			N/A
10/29/2018	USDPLN	11:30:00 AM	3.7897	3.7909			N/A
10/29/2018	USDPLN	1:30:00 PM	3.7819	3.7827			N/A
10/29/2018	USDPLN	3:30:00 PM	3.7968	3.7973			N/A
10/29/2018	USDRUR	9:30:00 AM					N/A
10/29/2018	USDRUR	11:30:00 AM	65.568	65.958			N/A
10/29/2018	USDRUR	1:30:00 PM	65.356	65.722			N/A
10/29/2018	USDRUR	3:30:00 PM	65.417	65.794			N/A
10/29/2018	USDSEK	9:30:00 AM	9.1243	9.1262			N/A
10/29/2018	USDSEK	11:30:00 AM	9.1428	9.1461			N/A
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10/29/2018	USDSGD	11:30:00 AM	1.3828	1.3831			N/A
10/29/2018	USDSGD	1:30:00 PM	1.3814	1.3818			N/A
10/29/2018	USDSGD	3:30:00 PM	1.3827	1.383			N/A
10/29/2018	USDZAR	9:30:00 AM	14.5488	14.5654			N/A
10/29/2018	USDZAR	11:30:00 AM	14.5525	14.569			N/A
10/29/2018	USDZAR	1:30:00 PM	14.4657	14.4688			N/A
10/29/2018	USDZAR	3:30:00 PM	14.5101	14.517			N/A
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10/29/2018	XAUUSD	11:30:00 AM	1228.67	1228.77			N/A
10/29/2018	XAUUSD	1:30:00 PM	1229.32	1229.42			N/A
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10/30/2018	#TSCO	3:30:00 PM					N/A
10/30/2018	#TSLA	9:30:00 AM					N/A
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10/30/2018	#UPS	3:30:00 PM					N/A
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10/30/2018	#UTX	1:30:00 PM					N/A
10/30/2018	#UTX	3:30:00 PM					N/A
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10/30/2018	#V	1:30:00 PM					N/A
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10/30/2018	#XOM	11:30:00 AM					N/A
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10/30/2018	#YHOO	1:30:00 PM					N/A
10/30/2018	#YHOO	3:30:00 PM					N/A
10/30/2018	#ZNGA	9:30:00 AM					N/A
10/30/2018	#ZNGA	11:30:00 AM					N/A
10/30/2018	#ZNGA	1:30:00 PM					N/A
10/30/2018	#ZNGA	3:30:00 PM					N/A
10/30/2018	AUDCAD	9:30:00 AM	0.92976	0.93031			N/A
10/30/2018	AUDCAD	11:30:00 AM	0.92953	0.93021			N/A
10/30/2018	AUDCAD	1:30:00 PM	0.9306	0.93115			N/A
10/30/2018	AUDCAD	3:30:00 PM	0.93213	0.93265			N/A
10/30/2018	AUDCHF	9:30:00 AM	0.71049	0.71115			N/A
10/30/2018	AUDCHF	11:30:00 AM	0.71012	0.71081			N/A
10/30/2018	AUDCHF	1:30:00 PM	0.71085	0.71141			N/A
10/30/2018	AUDCHF	3:30:00 PM	0.71086	0.71116			N/A
10/30/2018	AUDCZK	9:30:00 AM	16.13	16.144			N/A
10/30/2018	AUDCZK	11:30:00 AM	16.107	16.123			N/A
10/30/2018	AUDCZK	1:30:00 PM	16.158	16.175			N/A
10/30/2018	AUDCZK	3:30:00 PM	16.145	16.158			N/A
10/30/2018	AUDDKK	9:30:00 AM	4.6529	4.6573			N/A
10/30/2018	AUDDKK	11:30:00 AM	4.6487	4.6534			N/A
10/30/2018	AUDDKK	1:30:00 PM	4.6624	4.6667			N/A
10/30/2018	AUDDKK	3:30:00 PM	4.6573	4.6603			N/A
10/30/2018	AUDHKD	9:30:00 AM	5.5607	5.5639			N/A
10/30/2018	AUDHKD	11:30:00 AM	5.5581	5.5615			N/A
10/30/2018	AUDHKD	1:30:00 PM	5.565	5.5684			N/A
10/30/2018	AUDHKD	3:30:00 PM	5.5689	5.5715			N/A
10/30/2018	AUDHUF	9:30:00 AM	202.37	202.59			N/A
10/30/2018	AUDHUF	11:30:00 AM	202.11	202.34			N/A
10/30/2018	AUDHUF	1:30:00 PM	202.82	203.04			N/A
10/30/2018	AUDHUF	3:30:00 PM	202.68	202.87			N/A
10/30/2018	AUDJPY	9:30:00 AM	79.975	80.027			N/A
10/30/2018	AUDJPY	11:30:00 AM	79.873	79.923			N/A
10/30/2018	AUDJPY	1:30:00 PM	80.051	80.102			N/A
10/30/2018	AUDJPY	3:30:00 PM	80.105	80.107			N/A
10/30/2018	AUDMXN	9:30:00 AM	14.209	14.218			N/A
10/30/2018	AUDMXN	11:30:00 AM	14.2233	14.2274			N/A
10/30/2018	AUDMXN	1:30:00 PM	14.2074	14.214			N/A
10/30/2018	AUDMXN	3:30:00 PM	14.1733	14.1744			N/A
10/30/2018	AUDNOK	9:30:00 AM	5.9409	5.9449			N/A
10/30/2018	AUDNOK	11:30:00 AM	5.9364	5.9417			N/A
10/30/2018	AUDNOK	1:30:00 PM	5.9533	5.9587			N/A
10/30/2018	AUDNOK	3:30:00 PM	5.9519	5.9568			N/A
10/30/2018	AUDNZD	9:30:00 AM	1.08247	1.08311			N/A

10/30/2018	AUDNZD	11:30:00 AM	1.08269	1.08344			N/A
10/30/2018	AUDNZD	1:30:00 PM	1.08318	1.08379			N/A
10/30/2018	AUDNZD	3:30:00 PM	1.08298	1.08355			N/A
10/30/2018	AUDPLN	9:30:00 AM	2.6997	2.7024			N/A
10/30/2018	AUDPLN	11:30:00 AM	2.6945	2.6966			N/A
10/30/2018	AUDPLN	1:30:00 PM	2.7047	2.7074			N/A
10/30/2018	AUDPLN	3:30:00 PM	2.703	2.7052			N/A
10/30/2018	AUDSEK	9:30:00 AM	6.4803	6.4833			N/A
10/30/2018	AUDSEK	11:30:00 AM	6.4865	6.49			N/A
10/30/2018	AUDSEK	1:30:00 PM	6.5092	6.5116			N/A
10/30/2018	AUDSEK	3:30:00 PM	6.4967	6.4991			N/A
10/30/2018	AUDSGD	9:30:00 AM	0.981	0.9812			N/A
10/30/2018	AUDSGD	11:30:00 AM	0.9809	0.9813			N/A
10/30/2018	AUDSGD	1:30:00 PM	0.9825	0.9828			N/A
10/30/2018	AUDSGD	3:30:00 PM	0.9825	0.9825			N/A
10/30/2018	AUDUSD	9:30:00 AM	0.7094	0.70932			N/A
10/30/2018	AUDUSD	11:30:00 AM	0.70887	0.70884			N/A
10/30/2018	AUDUSD	1:30:00 PM	0.70972	0.70964			N/A
10/30/2018	AUDUSD	3:30:00 PM	0.71017	0.71			N/A
10/30/2018	AUDZAR	9:30:00 AM	10.3818	10.3947			N/A
10/30/2018	AUDZAR	11:30:00 AM	10.4063	10.4166			N/A
10/30/2018	AUDZAR	1:30:00 PM	10.4201	10.4279			N/A
10/30/2018	AUDZAR	3:30:00 PM	10.3595	10.3558			N/A
10/30/2018	CADCHF	9:30:00 AM	0.76395	0.76461			N/A
10/30/2018	CADCHF	11:30:00 AM	0.76373	0.7644			N/A
10/30/2018	CADCHF	1:30:00 PM	0.76364	0.76416			N/A
10/30/2018	CADCHF	3:30:00 PM	0.76241	0.76271			N/A
10/30/2018	CADCZK	9:30:00 AM	17.352	17.364			N/A
10/30/2018	CADCZK	11:30:00 AM	17.326	17.343			N/A
10/30/2018	CADCZK	1:30:00 PM	17.365	17.379			N/A
10/30/2018	CADCZK	3:30:00 PM	17.32	17.333			N/A
10/30/2018	CADDKK	9:30:00 AM	5.005	5.008			N/A
10/30/2018	CADDKK	11:30:00 AM					N/A
10/30/2018	CADDKK	1:30:00 PM	5.011	5.014			N/A
10/30/2018	CADDKK	3:30:00 PM	4.996	5			N/A
10/30/2018	CADHKD	9:30:00 AM	5.9807	5.9845			N/A
10/30/2018	CADHKD	11:30:00 AM	5.9794	5.9832			N/A
10/30/2018	CADHKD	1:30:00 PM	5.9798	5.983			N/A
10/30/2018	CADHKD	3:30:00 PM	5.9745	5.9765			N/A
10/30/2018	CADHUF	9:30:00 AM	217.7	217.83			N/A
10/30/2018	CADHUF	11:30:00 AM	217.47	217.61			N/A
10/30/2018	CADHUF	1:30:00 PM	217.97	218.11			N/A
10/30/2018	CADHUF	3:30:00 PM	217.47	217.59			N/A
10/30/2018	CADJPY	9:30:00 AM	85.989	86.041			N/A
10/30/2018	CADJPY	11:30:00 AM	85.899	85.953			N/A
10/30/2018	CADJPY	1:30:00 PM	85.993	86.049			N/A
10/30/2018	CADJPY	3:30:00 PM	85.919	85.92			N/A
10/30/2018	CADMXN	9:30:00 AM	15.2836	15.2943			N/A
10/30/2018	CADMXN	11:30:00 AM	15.3013	15.308			N/A
10/30/2018	CADMXN	1:30:00 PM	15.2669	15.2759			N/A

10/30/2018	CADMXN	3:30:00 PM	15.2075	15.2088			N/A
10/30/2018	CADNOK	9:30:00 AM	6.3913	6.3939			N/A
10/30/2018	CADNOK	11:30:00 AM	6.3864	6.3912			N/A
10/30/2018	CADNOK	1:30:00 PM	6.398	6.4019			N/A
10/30/2018	CADNOK	3:30:00 PM	6.387	6.3906			N/A
10/30/2018	CADPLN	9:30:00 AM	2.9032	2.9044			N/A
10/30/2018	CADPLN	11:30:00 AM	2.8977	2.8993			N/A
10/30/2018	CADPLN	1:30:00 PM	2.9056	2.907			N/A
10/30/2018	CADPLN	3:30:00 PM	2.8986	2.9004			N/A
10/30/2018	CADSEK	9:30:00 AM	6.9695	6.9719			N/A
10/30/2018	CADSEK	11:30:00 AM	6.9771	6.9808			N/A
10/30/2018	CADSEK	1:30:00 PM	6.9934	6.9957			N/A
10/30/2018	CADSEK	3:30:00 PM	6.9685	6.9716			N/A
10/30/2018	CADSGD	9:30:00 AM	1.0548	1.0552			N/A
10/30/2018	CADSGD	11:30:00 AM	1.0552	1.0555			N/A
10/30/2018	CADSGD	1:30:00 PM	1.0553	1.0557			N/A
10/30/2018	CADSGD	3:30:00 PM	1.0536	1.0539			N/A
10/30/2018	CADZAR	9:30:00 AM	11.1594	11.1745			N/A
10/30/2018	CADZAR	11:30:00 AM	11.187	11.2017			N/A
10/30/2018	CADZAR	1:30:00 PM	11.1862	11.1992			N/A
10/30/2018	CADZAR	3:30:00 PM	11.1081	11.1033			N/A
10/30/2018	CHFCZK	9:30:00 AM	22.705	22.717			N/A
10/30/2018	CHFCZK	11:30:00 AM	22.682	22.696			N/A
10/30/2018	CHFCZK	1:30:00 PM	22.733	22.748			N/A
10/30/2018	CHFCZK	3:30:00 PM	22.717	22.731			N/A
10/30/2018	CHFDKK	9:30:00 AM					N/A
10/30/2018	CHFDKK	11:30:00 AM	6.545	6.549			N/A
10/30/2018	CHFDKK	1:30:00 PM	6.559	6.562			N/A
10/30/2018	CHFDKK	3:30:00 PM	6.552	6.555			N/A
10/30/2018	CHFHKD	9:30:00 AM	7.827	7.8308			N/A
10/30/2018	CHFHKD	11:30:00 AM	7.8265	7.8285			N/A
10/30/2018	CHFHKD	1:30:00 PM	7.8308	7.8327			N/A
10/30/2018	CHFHKD	3:30:00 PM	7.835	7.8388			N/A
10/30/2018	CHFHUF	9:30:00 AM	284.75	285.14			N/A
10/30/2018	CHFHUF	11:30:00 AM	284.54	284.9			N/A
10/30/2018	CHFHUF	1:30:00 PM	285.27	285.62			N/A
10/30/2018	CHFHUF	3:30:00 PM	285.12	285.46			N/A
10/30/2018	CHFJPY	9:30:00 AM	112.524	112.534			N/A
10/30/2018	CHFJPY	11:30:00 AM	112.438	112.463			N/A
10/30/2018	CHFJPY	1:30:00 PM	112.582	112.591			N/A
10/30/2018	CHFJPY	3:30:00 PM	112.658	112.668			N/A
10/30/2018	CHFMXN	9:30:00 AM	19.996	20.0109			N/A
10/30/2018	CHFMXN	11:30:00 AM	20.0251	20.0336			N/A
10/30/2018	CHFMXN	1:30:00 PM	19.9879	19.9942			N/A
10/30/2018	CHFMXN	3:30:00 PM	19.9456	19.9454			N/A
10/30/2018	CHFNOK	9:30:00 AM	8.3614	8.3665			N/A
10/30/2018	CHFNOK	11:30:00 AM	8.3585	8.3663			N/A
10/30/2018	CHFNOK	1:30:00 PM	8.3746	8.3822			N/A
10/30/2018	CHFNOK	3:30:00 PM	8.3768	8.3813			N/A
10/30/2018	CHFPLN	9:30:00 AM	3.7985	3.8014			N/A

10/30/2018	CHFPLN	11:30:00 AM	3.7932	3.795			N/A
10/30/2018	CHFPLN	1:30:00 PM	3.8036	3.8067			N/A
10/30/2018	CHFPLN	3:30:00 PM	3.802	3.805			N/A
10/30/2018	CHFSEK	9:30:00 AM	9.1203	9.1228			N/A
10/30/2018	CHFSEK	11:30:00 AM	9.1334	9.1366			N/A
10/30/2018	CHFSEK	1:30:00 PM	9.1558	9.1592			N/A
10/30/2018	CHFSEK	3:30:00 PM	9.1432	9.1423			N/A
10/30/2018	CHFSGD	9:30:00 AM	1.3802	1.3806			N/A
10/30/2018	CHFSGD	11:30:00 AM	1.3807	1.3811			N/A
10/30/2018	CHFSGD	1:30:00 PM	1.3816	1.382			N/A
10/30/2018	CHFSGD	3:30:00 PM	1.3819	1.382			N/A
10/30/2018	CHFZAR	9:30:00 AM	14.6099	14.6177			N/A
10/30/2018	CHFZAR	11:30:00 AM	14.6471	14.6578			N/A
10/30/2018	CHFZAR	1:30:00 PM	14.6479	14.6599			N/A
10/30/2018	CHFZAR	3:30:00 PM	14.5755	14.5549			N/A
10/30/2018	CZKJPY	9:30:00 AM					N/A
10/30/2018	CZKJPY	11:30:00 AM	4.956	4.96			N/A
10/30/2018	CZKJPY	1:30:00 PM	4.951	4.955			N/A
10/30/2018	CZKJPY	3:30:00 PM	4.958	4.96			N/A
10/30/2018	DKKJPY	9:30:00 AM	17.19	17.2			N/A
10/30/2018	DKKJPY	11:30:00 AM					N/A
10/30/2018	DKKJPY	1:30:00 PM	17.17	17.18			N/A
10/30/2018	DKKJPY	3:30:00 PM	17.2	17.21			N/A
10/30/2018	EURAUD	9:30:00 AM	1.60262	1.60243			N/A
10/30/2018	EURAUD	11:30:00 AM	1.60403	1.60383			N/A
10/30/2018	EURAUD	1:30:00 PM	1.59952	1.59913			N/A
10/30/2018	EURAUD	3:30:00 PM	1.60134	1.60089			N/A
10/30/2018	EURCAD	9:30:00 AM	1.49063	1.49099			N/A
10/30/2018	EURCAD	11:30:00 AM	1.49165	1.49216			N/A
10/30/2018	EURCAD	1:30:00 PM	1.48894	1.48928			N/A
10/30/2018	EURCAD	3:30:00 PM	1.49336	1.49343			N/A
10/30/2018	EURCHF	9:30:00 AM	1.13929	1.13934			N/A
10/30/2018	EURCHF	11:30:00 AM	1.13974	1.13975			N/A
10/30/2018	EURCHF	1:30:00 PM	1.1375	1.1375			N/A
10/30/2018	EURCHF	3:30:00 PM	1.13877	1.13868			N/A
10/30/2018	EURCZK	9:30:00 AM	25.863	25.896			N/A
10/30/2018	EURCZK	11:30:00 AM	25.845	25.88			N/A
10/30/2018	EURCZK	1:30:00 PM	25.847	25.884			N/A
10/30/2018	EURCZK	3:30:00 PM	25.855	25.892			N/A
10/30/2018	EURDKK	9:30:00 AM	7.4609	7.4621			N/A
10/30/2018	EURDKK	11:30:00 AM	7.4608	7.4619			N/A
10/30/2018	EURDKK	1:30:00 PM	7.4607	7.4619			N/A
10/30/2018	EURDKK	3:30:00 PM	7.4609	7.4621			N/A
10/30/2018	EURGBP	9:30:00 AM	0.88923	0.88919			N/A
10/30/2018	EURGBP	11:30:00 AM	0.89072	0.89082			N/A
10/30/2018	EURGBP	1:30:00 PM	0.89097	0.89082			N/A
10/30/2018	EURGBP	3:30:00 PM	0.89141	0.89117			N/A
10/30/2018	EURHKD	9:30:00 AM	8.9158	8.92			N/A
10/30/2018	EURHKD	11:30:00 AM	8.9189	8.9237			N/A
10/30/2018	EURHKD	1:30:00 PM	8.9043	8.9082			N/A

10/30/2018	EURHKD	3:30:00 PM	8.9205	8.9253			N/A
10/30/2018	EURHUF	9:30:00 AM	324.4	325.14			N/A
10/30/2018	EURHUF	11:30:00 AM	324.29	324.94			N/A
10/30/2018	EURHUF	1:30:00 PM	324.48	325.17			N/A
10/30/2018	EURHUF	3:30:00 PM	324.62	325.29			N/A
10/30/2018	EURJPY	9:30:00 AM	128.237	128.201			N/A
10/30/2018	EURJPY	11:30:00 AM	128.189	128.157			N/A
10/30/2018	EURJPY	1:30:00 PM	128.096	128.068			N/A
10/30/2018	EURJPY	3:30:00 PM	128.32	128.252			N/A
10/30/2018	EURMXN	9:30:00 AM	22.7838	22.7979			N/A
10/30/2018	EURMXN	11:30:00 AM	22.8246	22.8349			N/A
10/30/2018	EURMXN	1:30:00 PM	22.7347	22.7453			N/A
10/30/2018	EURMXN	3:30:00 PM	22.7098	22.7063			N/A
10/30/2018	EURNOK	9:30:00 AM	9.5243	9.5337			N/A
10/30/2018	EURNOK	11:30:00 AM	9.5248	9.537			N/A
10/30/2018	EURNOK	1:30:00 PM	9.5247	9.5366			N/A
10/30/2018	EURNOK	3:30:00 PM	9.5366	9.546			N/A
10/30/2018	EURNZD	9:30:00 AM	1.73533	1.73596			N/A
10/30/2018	EURNZD	11:30:00 AM	1.73725	1.73805			N/A
10/30/2018	EURNZD	1:30:00 PM	1.73286	1.73361			N/A
10/30/2018	EURNZD	3:30:00 PM	1.73489	1.73529			N/A
10/30/2018	EURPLN	9:30:00 AM	4.3285	4.3304			N/A
10/30/2018	EURPLN	11:30:00 AM	4.3238	4.3248			N/A
10/30/2018	EURPLN	1:30:00 PM	4.3274	4.3302			N/A
10/30/2018	EURPLN	3:30:00 PM	4.3296	4.3324			N/A
10/30/2018	EURRUR	9:30:00 AM					N/A
10/30/2018	EURRUR	11:30:00 AM	74.494	74.897			N/A
10/30/2018	EURRUR	1:30:00 PM	74.256	74.678			N/A
10/30/2018	EURRUR	3:30:00 PM	74.43	74.862			N/A
10/30/2018	EURSEK	9:30:00 AM	10.3897	10.3926			N/A
10/30/2018	EURSEK	11:30:00 AM	10.4083	10.4131			N/A
10/30/2018	EURSEK	1:30:00 PM	10.4134	10.4188			N/A
10/30/2018	EURSEK	3:30:00 PM	10.4095	10.4084			N/A
10/30/2018	EURSGD	9:30:00 AM	1.5724	1.573			N/A
10/30/2018	EURSGD	11:30:00 AM	1.5734	1.5743			N/A
10/30/2018	EURSGD	1:30:00 PM	1.5714	1.572			N/A
10/30/2018	EURSGD	3:30:00 PM	1.5733	1.5739			N/A
10/30/2018	EURUSD	9:30:00 AM	1.13683	1.13667			N/A
10/30/2018	EURUSD	11:30:00 AM	1.13693	1.13695			N/A
10/30/2018	EURUSD	1:30:00 PM	1.135	1.13487			N/A
10/30/2018	EURUSD	3:30:00 PM	1.13711	1.13707			N/A
10/30/2018	EURZAR	9:30:00 AM	16.6429	16.6599			N/A
10/30/2018	EURZAR	11:30:00 AM	16.6962	16.7081			N/A
10/30/2018	EURZAR	1:30:00 PM	16.669	16.6775			N/A
10/30/2018	EURZAR	3:30:00 PM	16.5971	16.5812			N/A
10/30/2018	GBPAUD	9:30:00 AM	1.80226	1.8029			N/A
10/30/2018	GBPAUD	11:30:00 AM	1.80067	1.80146			N/A
10/30/2018	GBPAUD	1:30:00 PM	1.79532	1.79553			N/A
10/30/2018	GBPAUD	3:30:00 PM	1.79658	1.79677			N/A
10/30/2018	GBPCAD	9:30:00 AM	1.67629	1.67668			N/A

10/30/2018	GBPCAD	11:30:00 AM	1.67433	1.67513			N/A
10/30/2018	GBPCAD	1:30:00 PM	1.67114	1.67152			N/A
10/30/2018	GBPCAD	3:30:00 PM	1.67532	1.67529			N/A
10/30/2018	GBPCHF	9:30:00 AM	1.28093	1.28158			N/A
10/30/2018	GBPCHF	11:30:00 AM	1.27917	1.27992			N/A
10/30/2018	GBPCHF	1:30:00 PM	1.27653	1.2771			N/A
10/30/2018	GBPCHF	3:30:00 PM	1.27768	1.27751			N/A
10/30/2018	GBPCZK	9:30:00 AM	29.083	29.104			N/A
10/30/2018	GBPCZK	11:30:00 AM	29.013	29.036			N/A
10/30/2018	GBPCZK	1:30:00 PM	29.022	29.035			N/A
10/30/2018	GBPCZK	3:30:00 PM	29.018	29.034			N/A
10/30/2018	GBPDKK	9:30:00 AM	8.387	8.398			N/A
10/30/2018	GBPDKK	11:30:00 AM	8.372	8.384			N/A
10/30/2018	GBPDKK	1:30:00 PM	8.372	8.381			N/A
10/30/2018	GBPDKK	3:30:00 PM	8.369	8.377			N/A
10/30/2018	GBPHKD	9:30:00 AM	10.0256	10.0308			N/A
10/30/2018	GBPHKD	11:30:00 AM	10.0114	10.0163			N/A
10/30/2018	GBPHKD	1:30:00 PM	9.9939	9.9969			N/A
10/30/2018	GBPHKD	3:30:00 PM	10.0087	10.0112			N/A
10/30/2018	GBPHUF	9:30:00 AM	364.79	365.24			N/A
10/30/2018	GBPHUF	11:30:00 AM	364.01	364.47			N/A
10/30/2018	GBPHUF	1:30:00 PM	364.15	364.54			N/A
10/30/2018	GBPHUF	3:30:00 PM	364.19	364.58			N/A
10/30/2018	GBPJPY	9:30:00 AM	144.204	144.203			N/A
10/30/2018	GBPJPY	11:30:00 AM	143.901	143.908			N/A
10/30/2018	GBPJPY	1:30:00 PM	143.766	143.773			N/A
10/30/2018	GBPJPY	3:30:00 PM	143.989	143.911			N/A
10/30/2018	GBPMXN	9:30:00 AM	25.6183	25.6282			N/A
10/30/2018	GBPMXN	11:30:00 AM	25.6199	25.6245			N/A
10/30/2018	GBPMXN	1:30:00 PM	25.5153	25.5181			N/A
10/30/2018	GBPMXN	3:30:00 PM	25.4725	25.4707			N/A
10/30/2018	GBPNOK	9:30:00 AM	10.7121	10.7202			N/A
10/30/2018	GBPNOK	11:30:00 AM	10.6945	10.7062			N/A
10/30/2018	GBPNOK	1:30:00 PM	10.6931	10.7022			N/A
10/30/2018	GBPNOK	3:30:00 PM	10.6998	10.7082			N/A
10/30/2018	GBPNZD	9:30:00 AM	1.95173	1.95213			N/A
10/30/2018	GBPNZD	11:30:00 AM	1.95046	1.95124			N/A
10/30/2018	GBPNZD	1:30:00 PM	1.94526	1.94562			N/A
10/30/2018	GBPNZD	3:30:00 PM	1.94646	1.94673			N/A
10/30/2018	GBPPLN	9:30:00 AM	4.8687	4.8684			N/A
10/30/2018	GBPPLN	11:30:00 AM	4.855	4.8548			N/A
10/30/2018	GBPPLN	1:30:00 PM	4.8583	4.8593			N/A
10/30/2018	GBPPLN	3:30:00 PM	4.8593	4.8593			N/A
10/30/2018	GBPSEK	9:30:00 AM	11.6821	11.6898			N/A
10/30/2018	GBPSEK	11:30:00 AM	11.683	11.6926			N/A
10/30/2018	GBPSEK	1:30:00 PM	11.6884	11.6948			N/A
10/30/2018	GBPSEK	3:30:00 PM	11.6752	11.6789			N/A
10/30/2018	GBPSGD	9:30:00 AM	1.7684	1.7688			N/A
10/30/2018	GBPSGD	11:30:00 AM	1.7665	1.7673			N/A
10/30/2018	GBPSGD	1:30:00 PM	1.764	1.7644			N/A

10/30/2018	GBPSGD	3:30:00 PM	1.7655	1.7657			N/A
10/30/2018	GBPUSD	9:30:00 AM	1.27869	1.27842			N/A
10/30/2018	GBPUSD	11:30:00 AM	1.27657	1.27657			N/A
10/30/2018	GBPUSD	1:30:00 PM	1.27419	1.27387			N/A
10/30/2018	GBPUSD	3:30:00 PM	1.27613	1.27575			N/A
10/30/2018	GBPZAR	9:30:00 AM	18.7128	18.7389			N/A
10/30/2018	GBPZAR	11:30:00 AM	18.7409	18.7606			N/A
10/30/2018	GBPZAR	1:30:00 PM	18.7046	18.7252			N/A
10/30/2018	GBPZAR	3:30:00 PM	18.6145	18.6027			N/A
10/30/2018	GOLD	9:30:00 AM	1225.14	1225.03			N/A
10/30/2018	GOLD	11:30:00 AM	1224.18	1224.35			N/A
10/30/2018	GOLD	1:30:00 PM	1221.69	1221.52			N/A
10/30/2018	GOLD	3:30:00 PM	1224.97	1224.56			N/A
10/30/2018	HKDJPY	9:30:00 AM					N/A
10/30/2018	HKDJPY	11:30:00 AM					N/A
10/30/2018	HKDJPY	1:30:00 PM					N/A
10/30/2018	HKDJPY	3:30:00 PM	14.38	14.39			N/A
10/30/2018	HUFJPY	9:30:00 AM	0.3952	0.3955			N/A
10/30/2018	HUFJPY	11:30:00 AM	0.3951	0.3955			N/A
10/30/2018	HUFJPY	1:30:00 PM	0.3946	0.3949			N/A
10/30/2018	HUFJPY	3:30:00 PM	0.3951	0.3954			N/A
10/30/2018	MXNJPY	9:30:00 AM					N/A
10/30/2018	MXNJPY	11:30:00 AM	5.62	5.64			N/A
10/30/2018	MXNJPY	1:30:00 PM					N/A
10/30/2018	MXNJPY	3:30:00 PM					N/A
10/30/2018	NOKJPY	9:30:00 AM	13.44	13.48			N/A
10/30/2018	NOKJPY	11:30:00 AM					N/A
10/30/2018	NOKJPY	1:30:00 PM					N/A
10/30/2018	NOKJPY	3:30:00 PM					N/A
10/30/2018	NZDCAD	9:30:00 AM	0.8585	0.85919			N/A
10/30/2018	NZDCAD	11:30:00 AM	0.85814	0.85883			N/A
10/30/2018	NZDCAD	1:30:00 PM	0.85875	0.85938			N/A
10/30/2018	NZDCAD	3:30:00 PM	0.86036	0.86088			N/A
10/30/2018	NZDCHF	9:30:00 AM	0.65604	0.65674			N/A
10/30/2018	NZDCHF	11:30:00 AM	0.65557	0.65625			N/A
10/30/2018	NZDCHF	1:30:00 PM	0.65597	0.6566			N/A
10/30/2018	NZDCHF	3:30:00 PM	0.65606	0.6565			N/A
10/30/2018	NZDCZK	9:30:00 AM	14.899	14.907			N/A
10/30/2018	NZDCZK	11:30:00 AM	14.872	14.883			N/A
10/30/2018	NZDCZK	1:30:00 PM	14.914	14.925			N/A
10/30/2018	NZDCZK	3:30:00 PM	14.903	14.914			N/A
10/30/2018	NZDDKK	9:30:00 AM	4.297	4.301			N/A
10/30/2018	NZDDKK	11:30:00 AM					N/A
10/30/2018	NZDDKK	1:30:00 PM	4.303	4.307			N/A
10/30/2018	NZDDKK	3:30:00 PM	4.298	4.302			N/A
10/30/2018	NZDHKD	9:30:00 AM	5.1349	5.1376			N/A
10/30/2018	NZDHKD	11:30:00 AM	5.131	5.1338			N/A
10/30/2018	NZDHKD	1:30:00 PM	5.1356	5.1383			N/A
10/30/2018	NZDHKD	3:30:00 PM	5.1395	5.1423			N/A
10/30/2018	NZDHUF	9:30:00 AM	186.83	187.09			N/A

10/30/2018	NZDHUF	11:30:00 AM	186.54	186.83			N/A
10/30/2018	NZDHUF	1:30:00 PM	187.12	187.4			N/A
10/30/2018	NZDHUF	3:30:00 PM	187.02	187.3			N/A
10/30/2018	NZDJPY	9:30:00 AM	73.844	73.904			N/A
10/30/2018	NZDJPY	11:30:00 AM	73.739	73.792			N/A
10/30/2018	NZDJPY	1:30:00 PM	73.874	73.932			N/A
10/30/2018	NZDJPY	3:30:00 PM	73.932	73.953			N/A
10/30/2018	NZDMXN	9:30:00 AM	13.1214	13.128			N/A
10/30/2018	NZDMXN	11:30:00 AM	13.1321	13.1329			N/A
10/30/2018	NZDMXN	1:30:00 PM	13.1129	13.1154			N/A
10/30/2018	NZDMXN	3:30:00 PM	13.0838	13.0821			N/A
10/30/2018	NZDNOK	9:30:00 AM	5.4869	5.4891			N/A
10/30/2018	NZDNOK	11:30:00 AM	5.4805	5.4841			N/A
10/30/2018	NZDNOK	1:30:00 PM	5.4944	5.4982			N/A
10/30/2018	NZDNOK	3:30:00 PM	5.4945	5.4974			N/A
10/30/2018	NZDPLN	9:30:00 AM	2.4924	2.4935			N/A
10/30/2018	NZDPLN	11:30:00 AM	2.487	2.4876			N/A
10/30/2018	NZDPLN	1:30:00 PM	2.4953	2.4967			N/A
10/30/2018	NZDPLN	3:30:00 PM	2.4938	2.4952			N/A
10/30/2018	NZDSEK	9:30:00 AM	5.9816	5.9871			N/A
10/30/2018	NZDSEK	11:30:00 AM	5.986	5.9922			N/A
10/30/2018	NZDSEK	1:30:00 PM	6.0033	6.0102			N/A
10/30/2018	NZDSEK	3:30:00 PM	5.9934	5.9985			N/A
10/30/2018	NZDSGD	9:30:00 AM	0.9058	0.9066			N/A
10/30/2018	NZDSGD	11:30:00 AM	0.9056	0.9062			N/A
10/30/2018	NZDSGD	1:30:00 PM	0.9067	0.9073			N/A
10/30/2018	NZDSGD	3:30:00 PM	0.9067	0.9074			N/A
10/30/2018	NZDUSD	9:30:00 AM	0.65489	0.65487			N/A
10/30/2018	NZDUSD	11:30:00 AM	0.65427	0.65424			N/A
10/30/2018	NZDUSD	1:30:00 PM	0.65483	0.65478			N/A
10/30/2018	NZDUSD	3:30:00 PM	0.65537	0.65524			N/A
10/30/2018	NZDZAR	9:30:00 AM	9.5793	9.5945			N/A
10/30/2018	NZDZAR	11:30:00 AM	9.5986	9.6133			N/A
10/30/2018	NZDZAR	1:30:00 PM	9.606	9.6195			N/A
10/30/2018	NZDZAR	3:30:00 PM	9.5558	9.5542			N/A
10/30/2018	SEKJPY	9:30:00 AM					N/A
10/30/2018	SEKJPY	11:30:00 AM	12.32	12.34			N/A
10/30/2018	SEKJPY	1:30:00 PM					N/A
10/30/2018	SEKJPY	3:30:00 PM	12.33	12.34			N/A
10/30/2018	SGDJPY	9:30:00 AM	81.51	81.52			N/A
10/30/2018	SGDJPY	11:30:00 AM	81.42	81.45			N/A
10/30/2018	SGDJPY	1:30:00 PM	81.46	81.49			N/A
10/30/2018	SGDJPY	3:30:00 PM	81.53	81.51			N/A
10/30/2018	SILVER	9:30:00 AM	14.23	14.62			N/A
10/30/2018	SILVER	11:30:00 AM	14.23	14.59			N/A
10/30/2018	SILVER	1:30:00 PM	14.22	14.59			N/A
10/30/2018	SILVER	3:30:00 PM	14.25	14.62			N/A
10/30/2018	USDCAD	9:30:00 AM	1.31118	1.3113			N/A
10/30/2018	USDCAD	11:30:00 AM	1.31193	1.31198			N/A
10/30/2018	USDCAD	1:30:00 PM	1.31186	1.31186			N/A

10/30/2018	USDCAD	3:30:00 PM	1.31333	1.31293			N/A
10/30/2018	USDCHF	9:30:00 AM	1.00215	1.00217			N/A
10/30/2018	USDCHF	11:30:00 AM	1.00238	1.00236			N/A
10/30/2018	USDCHF	1:30:00 PM	1.00216	1.00208			N/A
10/30/2018	USDCHF	3:30:00 PM	1.00143	1.00128			N/A
10/30/2018	USDCZK	9:30:00 AM	22.752	22.769			N/A
10/30/2018	USDCZK	11:30:00 AM	22.729	22.752			N/A
10/30/2018	USDCZK	1:30:00 PM	22.775	22.797			N/A
10/30/2018	USDCZK	3:30:00 PM	22.739	22.763			N/A
10/30/2018	USDDKK	9:30:00 AM	6.5643	6.5684			N/A
10/30/2018	USDDKK	11:30:00 AM	6.5624	6.5675			N/A
10/30/2018	USDDKK	1:30:00 PM	6.5742	6.5786			N/A
10/30/2018	USDDKK	3:30:00 PM	6.5616	6.5668			N/A
10/30/2018	USDHKD	9:30:00 AM	7.8445	7.8444			N/A
10/30/2018	USDHKD	11:30:00 AM					N/A
10/30/2018	USDHKD	1:30:00 PM	7.8462	7.8466			N/A
10/30/2018	USDHKD	3:30:00 PM	7.8461	7.8466			N/A
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10/30/2018	USDHUF	1:30:00 PM	285.86	286.3			N/A
10/30/2018	USDHUF	3:30:00 PM	285.45	285.91			N/A
10/30/2018	USDJPY	9:30:00 AM	112.805	112.778			N/A
10/30/2018	USDJPY	11:30:00 AM	112.745	112.725			N/A
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10/30/2018	USDJPY	3:30:00 PM	112.848	112.793			N/A
10/30/2018	USDMXN	9:30:00 AM	20.044	20.049			N/A
10/30/2018	USDMXN	11:30:00 AM	20.077	20.078			N/A
10/30/2018	USDMXN	1:30:00 PM	20.032	20.034			N/A
10/30/2018	USDMXN	3:30:00 PM	19.974	19.962			N/A
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10/30/2018	USDRUR	11:30:00 AM	65.579	65.946			N/A
10/30/2018	USDRUR	1:30:00 PM	65.498	65.871			N/A
10/30/2018	USDRUR	3:30:00 PM	65.522	65.882			N/A
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10/30/2018	XAUUSD	11:30:00 AM	1224.18	1224.36			N/A
10/30/2018	XAUUSD	1:30:00 PM	1221.69	1221.5			N/A
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10/31/2018	#ORAN	11:30:00 AM					N/A
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10/31/2018	#T	11:30:00 AM					N/A
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10/31/2018	#T	3:30:00 PM					N/A
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10/31/2018	#TSLA	1:30:00 PM					N/A
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10/31/2018	#UL	1:30:00 PM					N/A
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10/31/2018	#VOD	1:30:00 PM					N/A
10/31/2018	#VOD	3:30:00 PM					N/A
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10/31/2018	#VZ	11:30:00 AM					N/A
10/31/2018	#VZ	1:30:00 PM					N/A
10/31/2018	#VZ	3:30:00 PM					N/A
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10/31/2018	#XOM	1:30:00 PM					N/A
10/31/2018	#XOM	3:30:00 PM					N/A
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10/31/2018	#YHOO	1:30:00 PM					N/A
10/31/2018	#YHOO	3:30:00 PM					N/A
10/31/2018	#ZNGA	9:30:00 AM					N/A
10/31/2018	#ZNGA	11:30:00 AM					N/A
10/31/2018	#ZNGA	1:30:00 PM					N/A
10/31/2018	#ZNGA	3:30:00 PM					N/A
10/31/2018	AUDCAD	9:30:00 AM	0.93041	0.93086			N/A
10/31/2018	AUDCAD	11:30:00 AM	0.92974	0.93042			N/A
10/31/2018	AUDCAD	1:30:00 PM	0.93217	0.93269			N/A
10/31/2018	AUDCAD	3:30:00 PM	0.93013	0.93073			N/A
10/31/2018	AUDCHF	9:30:00 AM	0.71248	0.71316			N/A
10/31/2018	AUDCHF	11:30:00 AM	0.71153	0.71222			N/A
10/31/2018	AUDCHF	1:30:00 PM	0.7133	0.71388			N/A
10/31/2018	AUDCHF	3:30:00 PM	0.71331	0.71387			N/A
10/31/2018	AUDCZK	9:30:00 AM	16.172	16.187			N/A
10/31/2018	AUDCZK	11:30:00 AM	16.16	16.177			N/A
10/31/2018	AUDCZK	1:30:00 PM	16.186	16.201			N/A
10/31/2018	AUDCZK	3:30:00 PM	16.224	16.236			N/A
10/31/2018	AUDDKK	9:30:00 AM	4.6607	4.6649			N/A
10/31/2018	AUDDKK	11:30:00 AM	4.6569	4.6616			N/A
10/31/2018	AUDDKK	1:30:00 PM	4.6666	4.6706			N/A
10/31/2018	AUDDKK	3:30:00 PM	4.6697	4.6739			N/A
10/31/2018	AUDHKD	9:30:00 AM	5.5622	5.5645			N/A
10/31/2018	AUDHKD	11:30:00 AM	5.5553	5.5589			N/A
10/31/2018	AUDHKD	1:30:00 PM	5.5695	5.5725			N/A
10/31/2018	AUDHKD	3:30:00 PM	5.555	5.5589			N/A
10/31/2018	AUDHUF	9:30:00 AM	202.88	203.09			N/A
10/31/2018	AUDHUF	11:30:00 AM	202.45	202.68			N/A
10/31/2018	AUDHUF	1:30:00 PM	202.87	203.08			N/A

10/31/2018	AUDHUF	3:30:00 PM	203.31	203.54			N/A
10/31/2018	AUDJPY	9:30:00 AM	80.24	80.292			N/A
10/31/2018	AUDJPY	11:30:00 AM	80.117	80.182			N/A
10/31/2018	AUDJPY	1:30:00 PM	80.292	80.343			N/A
10/31/2018	AUDJPY	3:30:00 PM	80.217	80.273			N/A
10/31/2018	AUDMXN	9:30:00 AM	14.2605	14.2687			N/A
10/31/2018	AUDMXN	11:30:00 AM	14.2457	14.2513			N/A
10/31/2018	AUDMXN	1:30:00 PM	14.2628	14.2713			N/A
10/31/2018	AUDMXN	3:30:00 PM	14.3186	14.321			N/A
10/31/2018	AUDNOK	9:30:00 AM	5.9549	5.9609			N/A
10/31/2018	AUDNOK	11:30:00 AM	5.9592	5.9649			N/A
10/31/2018	AUDNOK	1:30:00 PM	5.9747	5.98			N/A
10/31/2018	AUDNOK	3:30:00 PM	5.9792	5.985			N/A
10/31/2018	AUDNZD	9:30:00 AM	1.08211	1.08275			N/A
10/31/2018	AUDNZD	11:30:00 AM	1.0831	1.08374			N/A
10/31/2018	AUDNZD	1:30:00 PM	1.08438	1.08508			N/A
10/31/2018	AUDNZD	3:30:00 PM	1.08435	1.08486			N/A
10/31/2018	AUDPLN	9:30:00 AM	2.7064	2.7088			N/A
10/31/2018	AUDPLN	11:30:00 AM	2.7022	2.7054			N/A
10/31/2018	AUDPLN	1:30:00 PM	2.7063	2.7093			N/A
10/31/2018	AUDPLN	3:30:00 PM	2.7151	2.718			N/A
10/31/2018	AUDSEK	9:30:00 AM	6.4993	6.5024			N/A
10/31/2018	AUDSEK	11:30:00 AM	6.4914	6.4943			N/A
10/31/2018	AUDSEK	1:30:00 PM	6.506	6.5082			N/A
10/31/2018	AUDSEK	3:30:00 PM	6.5129	6.5157			N/A
10/31/2018	AUDSGD	9:30:00 AM	0.9827	0.9827			N/A
10/31/2018	AUDSGD	11:30:00 AM	0.9813	0.9816			N/A
10/31/2018	AUDSGD	1:30:00 PM	0.9832	0.9836			N/A
10/31/2018	AUDSGD	3:30:00 PM	0.9825	0.9828			N/A
10/31/2018	AUDUSD	9:30:00 AM	0.70946	0.7092			N/A
10/31/2018	AUDUSD	11:30:00 AM	0.70853	0.70849			N/A
10/31/2018	AUDUSD	1:30:00 PM	0.71033	0.71021			N/A
10/31/2018	AUDUSD	3:30:00 PM	0.70859	0.70853			N/A
10/31/2018	AUDZAR	9:30:00 AM	10.3958	10.3964			N/A
10/31/2018	AUDZAR	11:30:00 AM	10.4161	10.4199			N/A
10/31/2018	AUDZAR	1:30:00 PM	10.4484	10.4619			N/A
10/31/2018	AUDZAR	3:30:00 PM	10.492	10.5029			N/A
10/31/2018	CADCHF	9:30:00 AM	0.76563	0.76622			N/A
10/31/2018	CADCHF	11:30:00 AM	0.765	0.76575			N/A
10/31/2018	CADCHF	1:30:00 PM	0.76494	0.7656			N/A
10/31/2018	CADCHF	3:30:00 PM	0.76664	0.76718			N/A
10/31/2018	CADCZK	9:30:00 AM	17.385	17.395			N/A
10/31/2018	CADCZK	11:30:00 AM	17.38	17.397			N/A
10/31/2018	CADCZK	1:30:00 PM	17.363	17.378			N/A
10/31/2018	CADCZK	3:30:00 PM	17.443	17.453			N/A
10/31/2018	CADDKK	9:30:00 AM	5.01	5.013			N/A
10/31/2018	CADDKK	11:30:00 AM					N/A
10/31/2018	CADDKK	1:30:00 PM	5.006	5.01			N/A
10/31/2018	CADDKK	3:30:00 PM	5.02	5.024			N/A
10/31/2018	CADHKD	9:30:00 AM	5.9781	5.9813			N/A

10/31/2018	CADHKD	11:30:00 AM	5.975	5.9789			N/A
10/31/2018	CADHKD	1:30:00 PM	5.9741	5.9779			N/A
10/31/2018	CADHKD	3:30:00 PM	5.9731	5.9762			N/A
10/31/2018	CADHUF	9:30:00 AM	218.12	218.22			N/A
10/31/2018	CADHUF	11:30:00 AM	217.76	217.93			N/A
10/31/2018	CADHUF	1:30:00 PM	217.65	217.82			N/A
10/31/2018	CADHUF	3:30:00 PM	218.61	218.77			N/A
10/31/2018	CADJPY	9:30:00 AM	86.216	86.282			N/A
10/31/2018	CADJPY	11:30:00 AM	86.142	86.209			N/A
10/31/2018	CADJPY	1:30:00 PM	86.106	86.166			N/A
10/31/2018	CADJPY	3:30:00 PM	86.224	86.267			N/A
10/31/2018	CADMXN	9:30:00 AM	15.3287	15.338			N/A
10/31/2018	CADMXN	11:30:00 AM	15.3232	15.3322			N/A
10/31/2018	CADMXN	1:30:00 PM	15.303	15.3119			N/A
10/31/2018	CADMXN	3:30:00 PM	15.3937	15.3978			N/A
10/31/2018	CADNOK	9:30:00 AM	6.4026	6.4053			N/A
10/31/2018	CADNOK	11:30:00 AM	6.4095	6.4142			N/A
10/31/2018	CADNOK	1:30:00 PM	6.4104	6.4141			N/A
10/31/2018	CADNOK	3:30:00 PM	6.4301	6.4336			N/A
10/31/2018	CADPLN	9:30:00 AM	2.9094	2.9096			N/A
10/31/2018	CADPLN	11:30:00 AM	2.9061	2.908			N/A
10/31/2018	CADPLN	1:30:00 PM	2.9032	2.9051			N/A
10/31/2018	CADPLN	3:30:00 PM	2.9185	2.9204			N/A
10/31/2018	CADSEK	9:30:00 AM	6.9856	6.9875			N/A
10/31/2018	CADSEK	11:30:00 AM	6.9802	6.9841			N/A
10/31/2018	CADSEK	1:30:00 PM	6.9779	6.9808			N/A
10/31/2018	CADSEK	3:30:00 PM	7.0008	7.0038			N/A
10/31/2018	CADSGD	9:30:00 AM	1.0561	1.0564			N/A
10/31/2018	CADSGD	11:30:00 AM	1.0553	1.0556			N/A
10/31/2018	CADSGD	1:30:00 PM	1.0548	1.0551			N/A
10/31/2018	CADSGD	3:30:00 PM	1.0561	1.0564			N/A
10/31/2018	CADZAR	9:30:00 AM	11.1695	11.1738			N/A
10/31/2018	CADZAR	11:30:00 AM	11.1932	11.2026			N/A
10/31/2018	CADZAR	1:30:00 PM	11.2015	11.2189			N/A
10/31/2018	CADZAR	3:30:00 PM	11.2729	11.2872			N/A
10/31/2018	CHFCZK	9:30:00 AM	22.7	22.712			N/A
10/31/2018	CHFCZK	11:30:00 AM	22.712	22.728			N/A
10/31/2018	CHFCZK	1:30:00 PM	22.693	22.706			N/A
10/31/2018	CHFCZK	3:30:00 PM	22.745	22.758			N/A
10/31/2018	CHFDKK	9:30:00 AM					N/A
10/31/2018	CHFDKK	11:30:00 AM					N/A
10/31/2018	CHFDKK	1:30:00 PM					N/A
10/31/2018	CHFDKK	3:30:00 PM	6.546	6.55			N/A
10/31/2018	CHFHKD	9:30:00 AM	7.8068	7.8076			N/A
10/31/2018	CHFHKD	11:30:00 AM	7.8072	7.8111			N/A
10/31/2018	CHFHKD	1:30:00 PM	7.808	7.8112			N/A
10/31/2018	CHFHKD	3:30:00 PM	7.7882	7.7915			N/A
10/31/2018	CHFHUF	9:30:00 AM	284.7	285.03			N/A
10/31/2018	CHFHUF	11:30:00 AM	284.45	284.83			N/A
10/31/2018	CHFHUF	1:30:00 PM	284.34	284.7			N/A

10/31/2018	CHFCHF	3:30:00 PM	285	285.33			N/A
10/31/2018	CHFJPY	9:30:00 AM	112.578	112.605			N/A
10/31/2018	CHFJPY	11:30:00 AM	112.557	112.609			N/A
10/31/2018	CHFJPY	1:30:00 PM	112.529	112.548			N/A
10/31/2018	CHFJPY	3:30:00 PM	112.436	112.451			N/A
10/31/2018	CHFUSD	9:30:00 AM	20.0127	20.0242			N/A
10/31/2018	CHFUSD	11:30:00 AM	20.0171	20.0266			N/A
10/31/2018	CHFUSD	1:30:00 PM	19.9944	20.0076			N/A
10/31/2018	CHFUSD	3:30:00 PM	20.0698	20.0757			N/A
10/31/2018	CHFSEK	9:30:00 AM	8.3579	8.3651			N/A
10/31/2018	CHFSEK	11:30:00 AM	8.3734	8.3813			N/A
10/31/2018	CHFSEK	1:30:00 PM	8.376	8.3827			N/A
10/31/2018	CHFSEK	3:30:00 PM	8.383	8.3902			N/A
10/31/2018	CHFPLN	9:30:00 AM	3.7981	3.8002			N/A
10/31/2018	CHFPLN	11:30:00 AM	3.797	3.8002			N/A
10/31/2018	CHFPLN	1:30:00 PM	3.7936	3.7963			N/A
10/31/2018	CHFPLN	3:30:00 PM	3.8056	3.8086			N/A
10/31/2018	CHFSEK	9:30:00 AM	9.121	9.1236			N/A
10/31/2018	CHFSEK	11:30:00 AM	9.1221	9.1252			N/A
10/31/2018	CHFSEK	1:30:00 PM	9.1203	9.1227			N/A
10/31/2018	CHFSEK	3:30:00 PM	9.131	9.1332			N/A
10/31/2018	CHFSGD	9:30:00 AM	1.3787	1.379			N/A
10/31/2018	CHFSGD	11:30:00 AM	1.3785	1.3789			N/A
10/31/2018	CHFSGD	1:30:00 PM	1.3782	1.3786			N/A
10/31/2018	CHFSGD	3:30:00 PM	1.377	1.3774			N/A
10/31/2018	CHFZAR	9:30:00 AM	14.585	14.5859			N/A
10/31/2018	CHFZAR	11:30:00 AM	14.6292	14.6335			N/A
10/31/2018	CHFZAR	1:30:00 PM	14.6422	14.6566			N/A
10/31/2018	CHFZAR	3:30:00 PM	14.705	14.7152			N/A
10/31/2018	CZKJPY	9:30:00 AM	4.959	4.963			N/A
10/31/2018	CZKJPY	11:30:00 AM	4.955	4.959			N/A
10/31/2018	CZKJPY	1:30:00 PM	4.958	4.961			N/A
10/31/2018	CZKJPY	3:30:00 PM	4.942	4.946			N/A
10/31/2018	DKKJPY	9:30:00 AM	17.22	17.23			N/A
10/31/2018	DKKJPY	11:30:00 AM					N/A
10/31/2018	DKKJPY	1:30:00 PM	17.21	17.23			N/A
10/31/2018	DKKJPY	3:30:00 PM	17.18	17.19			N/A
10/31/2018	EURAUD	9:30:00 AM	1.60008	1.59974			N/A
10/31/2018	EURAUD	11:30:00 AM	1.60125	1.6011			N/A
10/31/2018	EURAUD	1:30:00 PM	1.59808	1.59773			N/A
10/31/2018	EURAUD	3:30:00 PM	1.59685	1.59659			N/A
10/31/2018	EURCAD	9:30:00 AM	1.48936	1.48944			N/A
10/31/2018	EURCAD	11:30:00 AM	1.48943	1.48995			N/A
10/31/2018	EURCAD	1:30:00 PM	1.49036	1.49064			N/A
10/31/2018	EURCAD	3:30:00 PM	1.48602	1.48638			N/A
10/31/2018	EURCHF	9:30:00 AM	1.14065	1.14059			N/A
10/31/2018	EURCHF	11:30:00 AM	1.14004	1.14004			N/A
10/31/2018	EURCHF	1:30:00 PM	1.14059	1.14046			N/A
10/31/2018	EURCHF	3:30:00 PM	1.13964	1.1396			N/A
10/31/2018	EURCZK	9:30:00 AM	25.884	25.916			N/A

10/31/2018	EURCZK	11:30:00 AM	25.884	25.923			N/A
10/31/2018	EURCZK	1:30:00 PM	25.874	25.911			N/A
10/31/2018	EURCZK	3:30:00 PM	25.911	25.944			N/A
10/31/2018	EURDKK	9:30:00 AM	7.4609	7.462			N/A
10/31/2018	EURDKK	11:30:00 AM	7.461	7.4621			N/A
10/31/2018	EURDKK	1:30:00 PM	7.461	7.4622			N/A
10/31/2018	EURDKK	3:30:00 PM	7.4605	7.4618			N/A
10/31/2018	EURGBP	9:30:00 AM	0.89254	0.89247			N/A
10/31/2018	EURGBP	11:30:00 AM	0.89074	0.89082			N/A
10/31/2018	EURGBP	1:30:00 PM	0.88873	0.88864			N/A
10/31/2018	EURGBP	3:30:00 PM	0.88795	0.88795			N/A
10/31/2018	EURHKD	9:30:00 AM	8.9044	8.9054			N/A
10/31/2018	EURHKD	11:30:00 AM	8.8992	8.9041			N/A
10/31/2018	EURHKD	1:30:00 PM	8.9038	8.9076			N/A
10/31/2018	EURHKD	3:30:00 PM	8.8745	8.8788			N/A
10/31/2018	EURHUF	9:30:00 AM	324.68	325.36			N/A
10/31/2018	EURHUF	11:30:00 AM	324.27	325			N/A
10/31/2018	EURHUF	1:30:00 PM	324.27	324.98			N/A
10/31/2018	EURHUF	3:30:00 PM	324.75	325.47			N/A
10/31/2018	EURJPY	9:30:00 AM	128.459	128.416			N/A
10/31/2018	EURJPY	11:30:00 AM	128.364	128.354			N/A
10/31/2018	EURJPY	1:30:00 PM	128.375	128.347			N/A
10/31/2018	EURJPY	3:30:00 PM	128.167	128.14			N/A
10/31/2018	EURMXN	9:30:00 AM	22.8342	22.8489			N/A
10/31/2018	EURMXN	11:30:00 AM	22.8277	22.8398			N/A
10/31/2018	EURMXN	1:30:00 PM	22.8104	22.823			N/A
10/31/2018	EURMXN	3:30:00 PM	22.8778	22.8863			N/A
10/31/2018	EURNOK	9:30:00 AM	9.5315	9.5431			N/A
10/31/2018	EURNOK	11:30:00 AM	9.5445	9.5571			N/A
10/31/2018	EURNOK	1:30:00 PM	9.5512	9.5622			N/A
10/31/2018	EURNOK	3:30:00 PM	9.5511	9.5637			N/A
10/31/2018	EURNZD	9:30:00 AM	1.73197	1.73259			N/A
10/31/2018	EURNZD	11:30:00 AM	1.73496	1.73547			N/A
10/31/2018	EURNZD	1:30:00 PM	1.7336	1.73401			N/A
10/31/2018	EURNZD	3:30:00 PM	1.73225	1.73249			N/A
10/31/2018	EURPLN	9:30:00 AM	4.3324	4.3346			N/A
10/31/2018	EURPLN	11:30:00 AM	4.3294	4.3323			N/A
10/31/2018	EURPLN	1:30:00 PM	4.3271	4.3299			N/A
10/31/2018	EURPLN	3:30:00 PM	4.3376	4.3408			N/A
10/31/2018	EURRUR	9:30:00 AM					N/A
10/31/2018	EURRUR	11:30:00 AM	74.247	74.655			N/A
10/31/2018	EURRUR	1:30:00 PM	74.363	74.797			N/A
10/31/2018	EURRUR	3:30:00 PM	74.141	74.557			N/A
10/31/2018	EURSEK	9:30:00 AM	10.4016	10.4067			N/A
10/31/2018	EURSEK	11:30:00 AM	10.3977	10.4031			N/A
10/31/2018	EURSEK	1:30:00 PM	10.3991	10.4033			N/A
10/31/2018	EURSEK	3:30:00 PM	10.4041	10.4074			N/A
10/31/2018	EURSGD	9:30:00 AM	1.5726	1.573			N/A
10/31/2018	EURSGD	11:30:00 AM	1.5715	1.5723			N/A
10/31/2018	EURSGD	1:30:00 PM	1.5717	1.5724			N/A

10/31/2018	EURSGD	3:30:00 PM	1.5691	1.5698			N/A
10/31/2018	EURUSD	9:30:00 AM	1.13515	1.13468		100	N/A
10/31/2018	EURUSD	11:30:00 AM	1.13446	1.13444	1000	1000	N/A
10/31/2018	EURUSD	1:30:00 PM	1.13514	1.13498			N/A
10/31/2018	EURUSD	3:30:00 PM	1.13143	1.13136			N/A
10/31/2018	EURZAR	9:30:00 AM	16.6366	16.6414			N/A
10/31/2018	EURZAR	11:30:00 AM	16.6815	16.6864			N/A
10/31/2018	EURZAR	1:30:00 PM	16.6998	16.719			N/A
10/31/2018	EURZAR	3:30:00 PM	16.759	16.7728			N/A
10/31/2018	GBPAUD	9:30:00 AM	1.79272	1.79326			N/A
10/31/2018	GBPAUD	11:30:00 AM	1.79745	1.79816			N/A
10/31/2018	GBPAUD	1:30:00 PM	1.79834	1.79868			N/A
10/31/2018	GBPAUD	3:30:00 PM	1.7984	1.79896			N/A
10/31/2018	GBPCAD	9:30:00 AM	1.66825	1.66886			N/A
10/31/2018	GBPCAD	11:30:00 AM	1.6718	1.67249			N/A
10/31/2018	GBPCAD	1:30:00 PM	1.67701	1.67725			N/A
10/31/2018	GBPCAD	3:30:00 PM	1.67324	1.67388			N/A
10/31/2018	GBPCHF	9:30:00 AM	1.27766	1.27842			N/A
10/31/2018	GBPCHF	11:30:00 AM	1.27946	1.28018			N/A
10/31/2018	GBPCHF	1:30:00 PM	1.28326	1.28369			N/A
10/31/2018	GBPCHF	3:30:00 PM	1.28345	1.28355			N/A
10/31/2018	GBPCZK	9:30:00 AM	29.005	29.019			N/A
10/31/2018	GBPCZK	11:30:00 AM	29.059	29.082			N/A
10/31/2018	GBPCZK	1:30:00 PM	29.116	29.135			N/A
10/31/2018	GBPCZK	3:30:00 PM	29.188	29.201			N/A
10/31/2018	GBPDKK	9:30:00 AM	8.357	8.367			N/A
10/31/2018	GBPDKK	11:30:00 AM	8.372	8.384			N/A
10/31/2018	GBPDKK	1:30:00 PM	8.393	8.403			N/A
10/31/2018	GBPDKK	3:30:00 PM	8.399	8.41			N/A
10/31/2018	GBPHKD	9:30:00 AM	9.974	9.9766			N/A
10/31/2018	GBPHKD	11:30:00 AM	9.9891	9.9946			N/A
10/31/2018	GBPHKD	1:30:00 PM	10.0193	10.0222			N/A
10/31/2018	GBPHKD	3:30:00 PM	9.9935	9.9976			N/A
10/31/2018	GBPHUF	9:30:00 AM	363.76	364.15			N/A
10/31/2018	GBPHUF	11:30:00 AM	363.95	364.43			N/A
10/31/2018	GBPHUF	1:30:00 PM	364.88	365.28			N/A
10/31/2018	GBPHUF	3:30:00 PM	365.67	366.13			N/A
10/31/2018	GBPJPY	9:30:00 AM	143.9	143.925			N/A
10/31/2018	GBPJPY	11:30:00 AM	144.085	144.106			N/A
10/31/2018	GBPJPY	1:30:00 PM	144.444	144.457			N/A
10/31/2018	GBPJPY	3:30:00 PM	144.342	144.339			N/A
10/31/2018	GBPMXN	9:30:00 AM	25.5705	25.582			N/A
10/31/2018	GBPMXN	11:30:00 AM	25.6137	25.6229			N/A
10/31/2018	GBPMXN	1:30:00 PM	25.657	25.6664			N/A
10/31/2018	GBPMXN	3:30:00 PM	25.757	25.7597			N/A
10/31/2018	GBPNOK	9:30:00 AM	10.6809	10.6902			N/A
10/31/2018	GBPNOK	11:30:00 AM	10.7161	10.7275			N/A
10/31/2018	GBPNOK	1:30:00 PM	10.7489	10.758			N/A
10/31/2018	GBPNOK	3:30:00 PM	10.7584	10.7685			N/A
10/31/2018	GBPNZD	9:30:00 AM	1.94065	1.94116			N/A

10/31/2018	GBPNZD	11:30:00 AM	1.94769	1.94821			N/A
10/31/2018	GBPNZD	1:30:00 PM	1.95085	1.95118			N/A
10/31/2018	GBPNZD	3:30:00 PM	1.95085	1.95124			N/A
10/31/2018	GBPPLN	9:30:00 AM	4.8554	4.8551			N/A
10/31/2018	GBPPLN	11:30:00 AM	4.8606	4.8624			N/A
10/31/2018	GBPPLN	1:30:00 PM	4.8698	4.871			N/A
10/31/2018	GBPPLN	3:30:00 PM	4.8858	4.887			N/A
10/31/2018	GBPSEK	9:30:00 AM	11.6536	11.6611			N/A
10/31/2018	GBPSEK	11:30:00 AM	11.6708	11.6802			N/A
10/31/2018	GBPSEK	1:30:00 PM	11.7024	11.7073			N/A
10/31/2018	GBPSEK	3:30:00 PM	11.7154	11.7225			N/A
10/31/2018	GBPSGD	9:30:00 AM	1.7617	1.7624			N/A
10/31/2018	GBPSGD	11:30:00 AM	1.7642	1.7648			N/A
10/31/2018	GBPSGD	1:30:00 PM	1.7688	1.7692			N/A
10/31/2018	GBPSGD	3:30:00 PM	1.7673	1.7678			N/A
10/31/2018	GBPUSD	9:30:00 AM	1.27182	1.27157			N/A
10/31/2018	GBPUSD	11:30:00 AM	1.27368	1.27362			N/A
10/31/2018	GBPUSD	1:30:00 PM	1.27762	1.27728	500	500	N/A
10/31/2018	GBPUSD	3:30:00 PM	1.27444	1.27425			N/A
10/31/2018	GBPZAR	9:30:00 AM	18.6394	18.6477			N/A
10/31/2018	GBPZAR	11:30:00 AM	18.7231	18.7345			N/A
10/31/2018	GBPZAR	1:30:00 PM	18.79	18.8172			N/A
10/31/2018	GBPZAR	3:30:00 PM	18.8711	18.892			N/A
10/31/2018	GOLD	9:30:00 AM	1217.24	1217.32			N/A
10/31/2018	GOLD	11:30:00 AM	1216.49	1216.63			N/A
10/31/2018	GOLD	1:30:00 PM	1218.54	1218.12			N/A
10/31/2018	GOLD	3:30:00 PM	1214.81	1214.61			N/A
10/31/2018	HKDJPY	9:30:00 AM	14.42	14.44			N/A
10/31/2018	HKDJPY	11:30:00 AM					N/A
10/31/2018	HKDJPY	1:30:00 PM					N/A
10/31/2018	HKDJPY	3:30:00 PM					N/A
10/31/2018	HUFJPY	9:30:00 AM	0.3955	0.3958			N/A
10/31/2018	HUFJPY	11:30:00 AM	0.3959	0.3962			N/A
10/31/2018	HUFJPY	1:30:00 PM	0.3955	0.3958			N/A
10/31/2018	HUFJPY	3:30:00 PM	0.3946	0.395			N/A
10/31/2018	MXNJPY	9:30:00 AM					N/A
10/31/2018	MXNJPY	11:30:00 AM					N/A
10/31/2018	MXNJPY	1:30:00 PM					N/A
10/31/2018	MXNJPY	3:30:00 PM					N/A
10/31/2018	NOKJPY	9:30:00 AM					N/A
10/31/2018	NOKJPY	11:30:00 AM					N/A
10/31/2018	NOKJPY	1:30:00 PM	13.43	13.47			N/A
10/31/2018	NOKJPY	3:30:00 PM					N/A
10/31/2018	NZDCAD	9:30:00 AM	0.85946	0.85996			N/A
10/31/2018	NZDCAD	11:30:00 AM	0.85813	0.85868			N/A
10/31/2018	NZDCAD	1:30:00 PM	0.85929	0.85984			N/A
10/31/2018	NZDCAD	3:30:00 PM	0.85753	0.85803			N/A
10/31/2018	NZDCHF	9:30:00 AM	0.65812	0.6588			N/A
10/31/2018	NZDCHF	11:30:00 AM	0.65671	0.6573			N/A
10/31/2018	NZDCHF	1:30:00 PM	0.65749	0.65811			N/A

10/31/2018	NZDCHF	3:30:00 PM	0.65763	0.65807			N/A
10/31/2018	NZDCZK	9:30:00 AM	14.941	14.951			N/A
10/31/2018	NZDCZK	11:30:00 AM	14.917	14.927			N/A
10/31/2018	NZDCZK	1:30:00 PM	14.921	14.932			N/A
10/31/2018	NZDCZK	3:30:00 PM	14.959	14.965			N/A
10/31/2018	NZDDKK	9:30:00 AM					N/A
10/31/2018	NZDDKK	11:30:00 AM	4.298	4.302			N/A
10/31/2018	NZDDKK	1:30:00 PM	4.301	4.305			N/A
10/31/2018	NZDDKK	3:30:00 PM	4.304	4.308			N/A
10/31/2018	NZDHKD	9:30:00 AM	5.1381	5.1388			N/A
10/31/2018	NZDHKD	11:30:00 AM	5.1272	5.1295			N/A
10/31/2018	NZDHKD	1:30:00 PM	5.1339	5.1363			N/A
10/31/2018	NZDHKD	3:30:00 PM	5.1214	5.1235			N/A
10/31/2018	NZDHUF	9:30:00 AM	187.36	187.64			N/A
10/31/2018	NZDHUF	11:30:00 AM	186.8	187.09			N/A
10/31/2018	NZDHUF	1:30:00 PM	186.96	187.22			N/A
10/31/2018	NZDHUF	3:30:00 PM	187.39	187.65			N/A
10/31/2018	NZDJPY	9:30:00 AM	74.119	74.174			N/A
10/31/2018	NZDJPY	11:30:00 AM	73.946	74.001			N/A
10/31/2018	NZDJPY	1:30:00 PM	74.006	74.068			N/A
10/31/2018	NZDJPY	3:30:00 PM	73.955	73.998			N/A
10/31/2018	NZDMXN	9:30:00 AM	13.1743	13.1781			N/A
10/31/2018	NZDMXN	11:30:00 AM	13.1468	13.1514			N/A
10/31/2018	NZDMXN	1:30:00 PM	13.1488	13.1531			N/A
10/31/2018	NZDMXN	3:30:00 PM	13.2012	13.1991			N/A
10/31/2018	NZDNOK	9:30:00 AM	5.5013	5.505			N/A
10/31/2018	NZDNOK	11:30:00 AM	5.5	5.5032			N/A
10/31/2018	NZDNOK	1:30:00 PM	5.5082	5.5117			N/A
10/31/2018	NZDNOK	3:30:00 PM	5.513	5.5161			N/A
10/31/2018	NZDPLN	9:30:00 AM	2.5001	2.5007			N/A
10/31/2018	NZDPLN	11:30:00 AM	2.4935	2.4949			N/A
10/31/2018	NZDPLN	1:30:00 PM	2.4948	2.496			N/A
10/31/2018	NZDPLN	3:30:00 PM	2.5027	2.5039			N/A
10/31/2018	NZDSEK	9:30:00 AM	5.9998	6.0066			N/A
10/31/2018	NZDSEK	11:30:00 AM	5.988	5.9939			N/A
10/31/2018	NZDSEK	1:30:00 PM	5.9948	5.9995			N/A
10/31/2018	NZDSEK	3:30:00 PM	6.0008	6.0068			N/A
10/31/2018	NZDSGD	9:30:00 AM	0.9078	0.9084			N/A
10/31/2018	NZDSGD	11:30:00 AM	0.9057	0.9063			N/A
10/31/2018	NZDSGD	1:30:00 PM	0.9066	0.9071			N/A
10/31/2018	NZDSGD	3:30:00 PM	0.9059	0.9066			N/A
10/31/2018	NZDUSD	9:30:00 AM	0.65523	0.65506			N/A
10/31/2018	NZDUSD	11:30:00 AM	0.65381	0.65364			N/A
10/31/2018	NZDUSD	1:30:00 PM	0.65465	0.65454			N/A
10/31/2018	NZDUSD	3:30:00 PM	0.65321	0.65306			N/A
10/31/2018	NZDZAR	9:30:00 AM	9.5959	9.6048			N/A
10/31/2018	NZDZAR	11:30:00 AM	9.6044	9.6125			N/A
10/31/2018	NZDZAR	1:30:00 PM	9.6244	9.6409			N/A
10/31/2018	NZDZAR	3:30:00 PM	9.6636	9.6793			N/A
10/31/2018	SEKJPY	9:30:00 AM	12.35	12.37			N/A

10/31/2018	SEKJPY	11:30:00 AM					N/A
10/31/2018	SEKJPY	1:30:00 PM					N/A
10/31/2018	SEKJPY	3:30:00 PM					N/A
10/31/2018	SGDJPY	9:30:00 AM	81.64	81.67			N/A
10/31/2018	SGDJPY	11:30:00 AM	81.64	81.66			N/A
10/31/2018	SGDJPY	1:30:00 PM	81.63	81.66			N/A
10/31/2018	SGDJPY	3:30:00 PM	81.63	81.65			N/A
10/31/2018	SILVER	9:30:00 AM	14.2	14.56			N/A
10/31/2018	SILVER	11:30:00 AM	14.14	14.5			N/A
10/31/2018	SILVER	1:30:00 PM	14.16	14.52			N/A
10/31/2018	SILVER	3:30:00 PM	14.11	14.47			N/A
10/31/2018	USDCAD	9:30:00 AM	1.31212	1.31205			N/A
10/31/2018	USDCAD	11:30:00 AM	1.31281	1.31299			N/A
10/31/2018	USDCAD	1:30:00 PM	1.31282	1.31291			N/A
10/31/2018	USDCAD	3:30:00 PM	1.31337	1.3132			N/A
10/31/2018	USDCHF	9:30:00 AM	1.00506	1.00485			N/A
10/31/2018	USDCHF	11:30:00 AM	1.00478	1.00489			N/A
10/31/2018	USDCHF	1:30:00 PM	1.00467	1.00471			N/A
10/31/2018	USDCHF	3:30:00 PM	1.00723	1.00714			N/A
10/31/2018	USDCZK	9:30:00 AM	22.812	22.825			N/A
10/31/2018	USDCZK	11:30:00 AM	22.815	22.84			N/A
10/31/2018	USDCZK	1:30:00 PM	22.796	22.819			N/A
10/31/2018	USDCZK	3:30:00 PM	22.9	22.922			N/A
10/31/2018	USDDKK	9:30:00 AM	6.5756	6.578			N/A
10/31/2018	USDDKK	11:30:00 AM	6.577	6.5822			N/A
10/31/2018	USDDKK	1:30:00 PM	6.5739	6.5783			N/A
10/31/2018	USDDKK	3:30:00 PM	6.5945	6.5993			N/A
10/31/2018	USDHKD	9:30:00 AM	7.8451	7.8456			N/A
10/31/2018	USDHKD	11:30:00 AM	7.8457	7.8461			N/A
10/31/2018	USDHKD	1:30:00 PM	7.8451	7.8456			N/A
10/31/2018	USDHKD	3:30:00 PM					N/A
10/31/2018	USDHUF	9:30:00 AM	286.13	286.45			N/A
10/31/2018	USDHUF	11:30:00 AM	285.81	286.27			N/A
10/31/2018	USDHUF	1:30:00 PM	285.66	286.11			N/A
10/31/2018	USDHUF	3:30:00 PM	287.01	287.45			N/A
10/31/2018	USDJPY	9:30:00 AM	113.177	113.161			N/A
10/31/2018	USDJPY	11:30:00 AM	113.14	113.139			N/A
10/31/2018	USDJPY	1:30:00 PM	113.101	113.082			N/A
10/31/2018	USDJPY	3:30:00 PM	113.285	113.257			N/A
10/31/2018	USDMXN	9:30:00 AM	20.116	20.12			N/A
10/31/2018	USDMXN	11:30:00 AM	20.121	20.121			N/A
10/31/2018	USDMXN	1:30:00 PM	20.094	20.097			N/A
10/31/2018	USDMXN	3:30:00 PM	20.218	20.218			N/A
10/31/2018	USDNOK	9:30:00 AM	8.4006	8.4063			N/A
10/31/2018	USDNOK	11:30:00 AM	8.4144	8.4234			N/A
10/31/2018	USDNOK	1:30:00 PM	8.4165	8.4235			N/A
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10/31/2018	USDPLN	9:30:00 AM	3.8177	3.8165			N/A
10/31/2018	USDPLN	11:30:00 AM	3.8158	3.8171			N/A
10/31/2018	USDPLN	1:30:00 PM	3.812	3.8129			N/A

10/31/2018	USDPLN	3:30:00 PM	3.8335	3.8346			N/A
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10/31/2018	USDRUR	11:30:00 AM	65.517	65.881			N/A
10/31/2018	USDRUR	1:30:00 PM	65.581	65.965			N/A
10/31/2018	USDRUR	3:30:00 PM	65.588	65.973			N/A
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10/31/2018	USDSEK	11:30:00 AM	9.163	9.168			N/A
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10/31/2018	USDSEK	3:30:00 PM	9.1931	9.1961			N/A
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10/31/2018	USDSGD	11:30:00 AM	1.3852	1.3855			N/A
10/31/2018	USDSGD	1:30:00 PM	1.3846	1.385			N/A
10/31/2018	USDSGD	3:30:00 PM	1.3868	1.3872			N/A
10/31/2018	USDZAR	9:30:00 AM	14.6599	14.6597			N/A
10/31/2018	USDZAR	11:30:00 AM	14.7038	14.708			N/A
10/31/2018	USDZAR	1:30:00 PM	14.7115	14.7283			N/A
10/31/2018	USDZAR	3:30:00 PM	14.8093	14.8232			N/A
10/31/2018	XAUUSD	9:30:00 AM	1217.24	1217.3			N/A
10/31/2018	XAUUSD	11:30:00 AM	1216.49	1216.63			N/A
10/31/2018	XAUUSD	1:30:00 PM	1218.54	1218.12			N/A
10/31/2018	XAUUSD	3:30:00 PM	1214.81	1214.65			N/A
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10/31/2018	ZARJPY	11:30:00 AM	7.64	7.68			N/A
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11/1/2018	#PFE	3:30:00 PM					N/A
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11/1/2018	#PG	1:30:00 PM					N/A
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11/1/2018	#QCOM	1:30:00 PM					N/A
11/1/2018	#QCOM	3:30:00 PM					N/A
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11/1/2018	#QQQ	1:30:00 PM					N/A
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11/1/2018	#S	1:30:00 PM					N/A
11/1/2018	#S	3:30:00 PM					N/A
11/1/2018	#SBUX	9:30:00 AM					N/A

11/1/2018	#SBUX	11:30:00 AM					N/A
11/1/2018	#SBUX	1:30:00 PM					N/A
11/1/2018	#SBUX	3:30:00 PM					N/A
11/1/2018	#SNE	9:30:00 AM					N/A
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11/1/2018	#SNE	3:30:00 PM					N/A
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11/1/2018	#TWTR	3:30:00 PM					N/A
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11/1/2018	#UBS	3:30:00 PM					N/A
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11/1/2018	#UPS	9:30:00 AM					N/A
11/1/2018	#UPS	11:30:00 AM					N/A
11/1/2018	#UPS	1:30:00 PM					N/A

11/1/2018	#UPS	3:30:00 PM					N/A
11/1/2018	#UTX	9:30:00 AM					N/A
11/1/2018	#UTX	11:30:00 AM					N/A
11/1/2018	#UTX	1:30:00 PM					N/A
11/1/2018	#UTX	3:30:00 PM					N/A
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11/1/2018	#V	1:30:00 PM					N/A
11/1/2018	#V	3:30:00 PM					N/A
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11/1/2018	#VOD	11:30:00 AM					N/A
11/1/2018	#VOD	1:30:00 PM					N/A
11/1/2018	#VOD	3:30:00 PM					N/A
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11/1/2018	#VZ	1:30:00 PM					N/A
11/1/2018	#VZ	3:30:00 PM					N/A
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11/1/2018	#WDC	11:30:00 AM					N/A
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11/1/2018	#WDC	3:30:00 PM					N/A
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11/1/2018	#WFC	1:30:00 PM					N/A
11/1/2018	#WFC	3:30:00 PM					N/A
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11/1/2018	#WMT	1:30:00 PM					N/A
11/1/2018	#WMT	3:30:00 PM					N/A
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11/1/2018	#XOM	11:30:00 AM					N/A
11/1/2018	#XOM	1:30:00 PM					N/A
11/1/2018	#XOM	3:30:00 PM					N/A
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11/1/2018	#YHOO	11:30:00 AM					N/A
11/1/2018	#YHOO	1:30:00 PM					N/A
11/1/2018	#YHOO	3:30:00 PM					N/A
11/1/2018	#ZNGA	9:30:00 AM					N/A
11/1/2018	#ZNGA	11:30:00 AM					N/A
11/1/2018	#ZNGA	1:30:00 PM					N/A
11/1/2018	#ZNGA	3:30:00 PM					N/A
11/1/2018	AUDCAD	9:30:00 AM	0.93808	0.93865			N/A
11/1/2018	AUDCAD	11:30:00 AM	0.93817	0.93883			N/A
11/1/2018	AUDCAD	1:30:00 PM	0.9384	0.93889			N/A
11/1/2018	AUDCAD	3:30:00 PM	0.93884	0.9394			N/A
11/1/2018	AUDCHF	9:30:00 AM	0.71787	0.71852			N/A
11/1/2018	AUDCHF	11:30:00 AM	0.71831	0.71892			N/A
11/1/2018	AUDCHF	1:30:00 PM	0.71773	0.7183			N/A
11/1/2018	AUDCHF	3:30:00 PM	0.72089	0.72135			N/A
11/1/2018	AUDCZK	9:30:00 AM	16.304	16.318			N/A

11/1/2018	AUDCZK	11:30:00 AM	16.272	16.285			N/A
11/1/2018	AUDCZK	1:30:00 PM	16.256	16.269			N/A
11/1/2018	AUDCZK	3:30:00 PM	16.285	16.3			N/A
11/1/2018	AUDDKK	9:30:00 AM	4.691	4.6951			N/A
11/1/2018	AUDDKK	11:30:00 AM	4.6943	4.6981			N/A
11/1/2018	AUDDKK	1:30:00 PM	4.6878	4.6924			N/A
11/1/2018	AUDDKK	3:30:00 PM	4.7034	4.7076			N/A
11/1/2018	AUDHKD	9:30:00 AM	5.6011	5.6042			N/A
11/1/2018	AUDHKD	11:30:00 AM	5.6102	5.6134			N/A
11/1/2018	AUDHKD	1:30:00 PM	5.608	5.6108			N/A
11/1/2018	AUDHKD	3:30:00 PM	5.6269	5.6307			N/A
11/1/2018	AUDHUF	9:30:00 AM	203.65	203.86			N/A
11/1/2018	AUDHUF	11:30:00 AM	203.55	203.74			N/A
11/1/2018	AUDHUF	1:30:00 PM	203.12	203.33			N/A
11/1/2018	AUDHUF	3:30:00 PM	203.38	203.6			N/A
11/1/2018	AUDJPY	9:30:00 AM	80.639	80.668			N/A
11/1/2018	AUDJPY	11:30:00 AM	80.86	80.925			N/A
11/1/2018	AUDJPY	1:30:00 PM	80.838	80.885			N/A
11/1/2018	AUDJPY	3:30:00 PM	81.003	81.048			N/A
11/1/2018	AUDMXN	9:30:00 AM	14.479	14.479			N/A
11/1/2018	AUDMXN	11:30:00 AM	14.4651	14.4739			N/A
11/1/2018	AUDMXN	1:30:00 PM	14.4245	14.4295			N/A
11/1/2018	AUDMXN	3:30:00 PM	14.4612	14.4697			N/A
11/1/2018	AUDNOK	9:30:00 AM	5.986	5.9888			N/A
11/1/2018	AUDNOK	11:30:00 AM	5.9872	5.9919			N/A
11/1/2018	AUDNOK	1:30:00 PM	5.9805	5.9856			N/A
11/1/2018	AUDNOK	3:30:00 PM	5.9933	5.9984			N/A
11/1/2018	AUDNZD	9:30:00 AM	1.08202	1.08256			N/A
11/1/2018	AUDNZD	11:30:00 AM	1.08271	1.08322			N/A
11/1/2018	AUDNZD	1:30:00 PM	1.08273	1.08342			N/A
11/1/2018	AUDNZD	3:30:00 PM	1.08379	1.08431			N/A
11/1/2018	AUDPLN	9:30:00 AM	2.7225	2.7249			N/A
11/1/2018	AUDPLN	11:30:00 AM	2.7216	2.7244			N/A
11/1/2018	AUDPLN	1:30:00 PM	2.7183	2.7214			N/A
11/1/2018	AUDPLN	3:30:00 PM	2.7273	2.7296			N/A
11/1/2018	AUDSEK	9:30:00 AM	6.4894	6.491			N/A
11/1/2018	AUDSEK	11:30:00 AM	6.4891	6.4916			N/A
11/1/2018	AUDSEK	1:30:00 PM	6.4759	6.4782			N/A
11/1/2018	AUDSEK	3:30:00 PM	6.5084	6.5114			N/A
11/1/2018	AUDSGD	9:30:00 AM	0.9871	0.9873			N/A
11/1/2018	AUDSGD	11:30:00 AM	0.9884	0.9887			N/A
11/1/2018	AUDSGD	1:30:00 PM	0.9878	0.988			N/A
11/1/2018	AUDSGD	3:30:00 PM	0.9898	0.99			N/A
11/1/2018	AUDUSD	9:30:00 AM	0.7149	0.7148			N/A
11/1/2018	AUDUSD	11:30:00 AM	0.71608	0.71601			N/A
11/1/2018	AUDUSD	1:30:00 PM	0.71594	0.71577			N/A
11/1/2018	AUDUSD	3:30:00 PM	0.71852	0.71838			N/A
11/1/2018	AUDZAR	9:30:00 AM	10.462	10.4698			N/A
11/1/2018	AUDZAR	11:30:00 AM	10.4385	10.4473			N/A
11/1/2018	AUDZAR	1:30:00 PM	10.4088	10.4224			N/A

11/1/2018	AUDZAR	3:30:00 PM	10.4598	10.4724			N/A
11/1/2018	CADCHF	9:30:00 AM	0.76506	0.76566			N/A
11/1/2018	CADCHF	11:30:00 AM	0.76536	0.76602			N/A
11/1/2018	CADCHF	1:30:00 PM	0.7646	0.7653			N/A
11/1/2018	CADCHF	3:30:00 PM	0.76756	0.76814			N/A
11/1/2018	CADCZK	9:30:00 AM	17.381	17.393			N/A
11/1/2018	CADCZK	11:30:00 AM	17.34	17.356			N/A
11/1/2018	CADCZK	1:30:00 PM	17.327	17.335			N/A
11/1/2018	CADCZK	3:30:00 PM	17.344	17.361			N/A
11/1/2018	CADDKK	9:30:00 AM					N/A
11/1/2018	CADDKK	11:30:00 AM	5.003	5.007			N/A
11/1/2018	CADDKK	1:30:00 PM	4.996	5			N/A
11/1/2018	CADDKK	3:30:00 PM					N/A
11/1/2018	CADHKD	9:30:00 AM	5.9701	5.974			N/A
11/1/2018	CADHKD	11:30:00 AM	5.9796	5.9831			N/A
11/1/2018	CADHKD	1:30:00 PM	5.9761	5.979			N/A
11/1/2018	CADHKD	3:30:00 PM	5.9941	5.9973			N/A
11/1/2018	CADHUF	9:30:00 AM	217.13	217.26			N/A
11/1/2018	CADHUF	11:30:00 AM	216.94	217.11			N/A
11/1/2018	CADHUF	1:30:00 PM	216.49	216.64			N/A
11/1/2018	CADHUF	3:30:00 PM	216.64	216.79			N/A
11/1/2018	CADJPY	9:30:00 AM	85.942	85.964			N/A
11/1/2018	CADJPY	11:30:00 AM	86.161	86.227			N/A
11/1/2018	CADJPY	1:30:00 PM	86.119	86.174			N/A
11/1/2018	CADJPY	3:30:00 PM	86.265	86.307			N/A
11/1/2018	CADMXN	9:30:00 AM	15.4345	15.4325			N/A
11/1/2018	CADMXN	11:30:00 AM	15.4175	15.4286			N/A
11/1/2018	CADMXN	1:30:00 PM	15.3726	15.3814			N/A
11/1/2018	CADMXN	3:30:00 PM	15.4028	15.4132			N/A
11/1/2018	CADNOK	9:30:00 AM	6.3815	6.3828			N/A
11/1/2018	CADNOK	11:30:00 AM	6.3814	6.3855			N/A
11/1/2018	CADNOK	1:30:00 PM	6.3735	6.3784			N/A
11/1/2018	CADNOK	3:30:00 PM	6.3841	6.3883			N/A
11/1/2018	CADPLN	9:30:00 AM	2.9016	2.9033			N/A
11/1/2018	CADPLN	11:30:00 AM	2.9004	2.9023			N/A
11/1/2018	CADPLN	1:30:00 PM	2.8974	2.8987			N/A
11/1/2018	CADPLN	3:30:00 PM	2.9045	2.9061			N/A
11/1/2018	CADSEK	9:30:00 AM	6.9141	6.9161			N/A
11/1/2018	CADSEK	11:30:00 AM	6.9151	6.918			N/A
11/1/2018	CADSEK	1:30:00 PM	6.9	6.9026			N/A
11/1/2018	CADSEK	3:30:00 PM	6.9303	6.9334			N/A
11/1/2018	CADSGD	9:30:00 AM	1.0519	1.0521			N/A
11/1/2018	CADSGD	11:30:00 AM	1.0532	1.0535			N/A
11/1/2018	CADSGD	1:30:00 PM	1.0525	1.0528			N/A
11/1/2018	CADSGD	3:30:00 PM	1.054	1.0543			N/A
11/1/2018	CADZAR	9:30:00 AM	11.1488	11.158			N/A
11/1/2018	CADZAR	11:30:00 AM	11.1184	11.1326			N/A
11/1/2018	CADZAR	1:30:00 PM	11.0868	11.1028			N/A
11/1/2018	CADZAR	3:30:00 PM	11.1356	11.1495			N/A
11/1/2018	CHFCZK	9:30:00 AM	22.712	22.724			N/A

11/1/2018	CHFCZK	11:30:00 AM	22.653	22.666			N/A
11/1/2018	CHFCZK	1:30:00 PM	22.656	22.661			N/A
11/1/2018	CHFCZK	3:30:00 PM	22.594	22.607			N/A
11/1/2018	CHFDKK	9:30:00 AM	6.534	6.537			N/A
11/1/2018	CHFDKK	11:30:00 AM					N/A
11/1/2018	CHFDKK	1:30:00 PM	6.531	6.534			N/A
11/1/2018	CHFDKK	3:30:00 PM					N/A
11/1/2018	CHFHKD	9:30:00 AM	7.8017	7.8056			N/A
11/1/2018	CHFHKD	11:30:00 AM	7.81	7.8139			N/A
11/1/2018	CHFHKD	1:30:00 PM	7.8137	7.817			N/A
11/1/2018	CHFHKD	3:30:00 PM	7.8065	7.8105			N/A
11/1/2018	CHFHUF	9:30:00 AM	283.62	283.96			N/A
11/1/2018	CHFHUF	11:30:00 AM	283.28	283.64			N/A
11/1/2018	CHFHUF	1:30:00 PM	282.95	283.31			N/A
11/1/2018	CHFHUF	3:30:00 PM	282.11	282.43			N/A
11/1/2018	CHFJPY	9:30:00 AM	112.298	112.29			N/A
11/1/2018	CHFJPY	11:30:00 AM	112.542	112.561			N/A
11/1/2018	CHFJPY	1:30:00 PM	112.59	112.616			N/A
11/1/2018	CHFJPY	3:30:00 PM	112.347	112.361			N/A
11/1/2018	CHFMXN	9:30:00 AM	20.1659	20.1656			N/A
11/1/2018	CHFMXN	11:30:00 AM	20.1347	20.1499			N/A
11/1/2018	CHFMXN	1:30:00 PM	20.0934	20.1071			N/A
11/1/2018	CHFMXN	3:30:00 PM	20.0608	20.0729			N/A
11/1/2018	CHFNOK	9:30:00 AM	8.3379	8.3415			N/A
11/1/2018	CHFNOK	11:30:00 AM	8.3337	8.3408			N/A
11/1/2018	CHFNOK	1:30:00 PM	8.3322	8.3393			N/A
11/1/2018	CHFNOK	3:30:00 PM	8.3145	8.3205			N/A
11/1/2018	CHFPLN	9:30:00 AM	3.7913	3.7939			N/A
11/1/2018	CHFPLN	11:30:00 AM	3.7879	3.7907			N/A
11/1/2018	CHFPLN	1:30:00 PM	3.7875	3.7896			N/A
11/1/2018	CHFPLN	3:30:00 PM	3.783	3.7845			N/A
11/1/2018	CHFSEK	9:30:00 AM	9.0394	9.0392			N/A
11/1/2018	CHFSEK	11:30:00 AM	9.0328	9.0355			N/A
11/1/2018	CHFSEK	1:30:00 PM	9.0215	9.0241			N/A
11/1/2018	CHFSEK	3:30:00 PM	9.0292	9.0304			N/A
11/1/2018	CHFSGD	9:30:00 AM	1.3745	1.375			N/A
11/1/2018	CHFSGD	11:30:00 AM	1.3755	1.376			N/A
11/1/2018	CHFSGD	1:30:00 PM	1.3758	1.3762			N/A
11/1/2018	CHFSGD	3:30:00 PM	1.3727	1.373			N/A
11/1/2018	CHFZAR	9:30:00 AM	14.5703	14.5758			N/A
11/1/2018	CHFZAR	11:30:00 AM	14.526	14.5363			N/A
11/1/2018	CHFZAR	1:30:00 PM	14.498	14.5115			N/A
11/1/2018	CHFZAR	3:30:00 PM	14.5067	14.5173			N/A
11/1/2018	CZKJPY	9:30:00 AM	4.943	4.947			N/A
11/1/2018	CZKJPY	11:30:00 AM	4.968	4.972			N/A
11/1/2018	CZKJPY	1:30:00 PM	4.97	4.973			N/A
11/1/2018	CZKJPY	3:30:00 PM	4.971	4.975			N/A
11/1/2018	DKKJPY	9:30:00 AM	17.19	17.21			N/A
11/1/2018	DKKJPY	11:30:00 AM	17.23	17.25			N/A
11/1/2018	DKKJPY	1:30:00 PM					N/A

11/1/2018	DKKJPY	3:30:00 PM					N/A
11/1/2018	EURAUD	9:30:00 AM	1.58955	1.58926			N/A
11/1/2018	EURAUD	11:30:00 AM	1.5886	1.58818			N/A
11/1/2018	EURAUD	1:30:00 PM	1.59059	1.59028			N/A
11/1/2018	EURAUD	3:30:00 PM	1.58531	1.58493			N/A
11/1/2018	EURCAD	9:30:00 AM	1.49183	1.49211			N/A
11/1/2018	EURCAD	11:30:00 AM	1.49108	1.4913			N/A
11/1/2018	EURCAD	1:30:00 PM	1.49308	1.4934			N/A
11/1/2018	EURCAD	3:30:00 PM	1.4889	1.48911			N/A
11/1/2018	EURCHF	9:30:00 AM	1.14182	1.14169			N/A
11/1/2018	EURCHF	11:30:00 AM	1.14169	1.14164			N/A
11/1/2018	EURCHF	1:30:00 PM	1.1422	1.14211			N/A
11/1/2018	EURCHF	3:30:00 PM	1.14336	1.14317			N/A
11/1/2018	EURCZK	9:30:00 AM	25.925	25.961			N/A
11/1/2018	EURCZK	11:30:00 AM	25.854	25.893			N/A
11/1/2018	EURCZK	1:30:00 PM	25.86	25.897			N/A
11/1/2018	EURCZK	3:30:00 PM	25.823	25.858			N/A
11/1/2018	EURDKK	9:30:00 AM	7.4604	7.4615			N/A
11/1/2018	EURDKK	11:30:00 AM	7.4597	7.461			N/A
11/1/2018	EURDKK	1:30:00 PM	7.4599	7.4611			N/A
11/1/2018	EURDKK	3:30:00 PM	7.4594	7.4606			N/A
11/1/2018	EURGBP	9:30:00 AM	0.88221	0.88208			N/A
11/1/2018	EURGBP	11:30:00 AM	0.88314	0.8825			N/A
11/1/2018	EURGBP	1:30:00 PM	0.88337	0.88309			N/A
11/1/2018	EURGBP	3:30:00 PM	0.88149	0.88155			N/A
11/1/2018	EURHKD	9:30:00 AM	8.9071	8.9109			N/A
11/1/2018	EURHKD	11:30:00 AM	8.9163	8.9191			N/A
11/1/2018	EURHKD	1:30:00 PM	8.9233	8.9263			N/A
11/1/2018	EURHKD	3:30:00 PM	8.9239	8.928			N/A
11/1/2018	EURHUF	9:30:00 AM	323.78	324.51			N/A
11/1/2018	EURHUF	11:30:00 AM	323.29	324.01			N/A
11/1/2018	EURHUF	1:30:00 PM	323.09	323.78			N/A
11/1/2018	EURHUF	3:30:00 PM	322.45	323.12			N/A
11/1/2018	EURJPY	9:30:00 AM	128.245	128.182		10	N/A
11/1/2018	EURJPY	11:30:00 AM	128.531	128.489			N/A
11/1/2018	EURJPY	1:30:00 PM	128.642	128.612			N/A
11/1/2018	EURJPY	3:30:00 PM	128.476	128.442			N/A
11/1/2018	EURMXN	9:30:00 AM	23.0307	23.0269			N/A
11/1/2018	EURMXN	11:30:00 AM	22.9925	23.0061			N/A
11/1/2018	EURMXN	1:30:00 PM	22.9546	22.9669			N/A
11/1/2018	EURMXN	3:30:00 PM	22.9354	22.9504			N/A
11/1/2018	EURNOK	9:30:00 AM	9.5184	9.5251			N/A
11/1/2018	EURNOK	11:30:00 AM	9.5121	9.5239			N/A
11/1/2018	EURNOK	1:30:00 PM	9.5154	9.5256			N/A
11/1/2018	EURNOK	3:30:00 PM	9.503	9.515			N/A
11/1/2018	EURNZD	9:30:00 AM	1.72063	1.72098			N/A
11/1/2018	EURNZD	11:30:00 AM	1.7203	1.72094			N/A
11/1/2018	EURNZD	1:30:00 PM	1.72265	1.72336			N/A
11/1/2018	EURNZD	3:30:00 PM	1.71851	1.71915			N/A
11/1/2018	EURPLN	9:30:00 AM	4.3294	4.3313			N/A

11/1/2018	EURPLN	11:30:00 AM	4.3244	4.3264			N/A
11/1/2018	EURPLN	1:30:00 PM	4.325	4.3281			N/A
11/1/2018	EURPLN	3:30:00 PM	4.3248	4.3266			N/A
11/1/2018	EURRUR	9:30:00 AM					N/A
11/1/2018	EURRUR	11:30:00 AM	74.364	74.795			N/A
11/1/2018	EURRUR	1:30:00 PM	74.495	74.914			N/A
11/1/2018	EURRUR	3:30:00 PM	74.513	74.95			N/A
11/1/2018	EURSEK	9:30:00 AM	10.3221	10.3192			N/A
11/1/2018	EURSEK	11:30:00 AM	10.3112	10.314			N/A
11/1/2018	EURSEK	1:30:00 PM	10.304	10.3056			N/A
11/1/2018	EURSEK	3:30:00 PM	10.3206	10.3238			N/A
11/1/2018	EURSGD	9:30:00 AM	1.5693	1.5699			N/A
11/1/2018	EURSGD	11:30:00 AM	1.5703	1.571			N/A
11/1/2018	EURSGD	1:30:00 PM	1.5712	1.5718			N/A
11/1/2018	EURSGD	3:30:00 PM	1.5692	1.5699			N/A
11/1/2018	EURUSD	9:30:00 AM	1.13627	1.13616			N/A
11/1/2018	EURUSD	11:30:00 AM	1.1375	1.13725			N/A
11/1/2018	EURUSD	1:30:00 PM	1.13867	1.13839			N/A
11/1/2018	EURUSD	3:30:00 PM	1.13892	1.13879			N/A
11/1/2018	EURZAR	9:30:00 AM	16.6385	16.6477			N/A
11/1/2018	EURZAR	11:30:00 AM	16.5868	16.5995			N/A
11/1/2018	EURZAR	1:30:00 PM	16.5589	16.5773			N/A
11/1/2018	EURZAR	3:30:00 PM	16.5852	16.6009			N/A
11/1/2018	GBPAUD	9:30:00 AM	1.80205	1.80239			N/A
11/1/2018	GBPAUD	11:30:00 AM	1.80018	1.79913			N/A
11/1/2018	GBPAUD	1:30:00 PM	1.80105	1.80113			N/A
11/1/2018	GBPAUD	3:30:00 PM	1.79835	1.7987			N/A
11/1/2018	GBPCAD	9:30:00 AM	1.69082	1.6913			N/A
11/1/2018	GBPCAD	11:30:00 AM	1.68939	1.68858			N/A
11/1/2018	GBPCAD	1:30:00 PM	1.69057	1.69039			N/A
11/1/2018	GBPCAD	3:30:00 PM	1.68888	1.6891			N/A
11/1/2018	GBPCHF	9:30:00 AM	1.29405	1.29465			N/A
11/1/2018	GBPCHF	11:30:00 AM	1.29342	1.29307			N/A
11/1/2018	GBPCHF	1:30:00 PM	1.29305	1.29319			N/A
11/1/2018	GBPCHF	3:30:00 PM	1.29691	1.29697			N/A
11/1/2018	GBPCZK	9:30:00 AM	29.393	29.405			N/A
11/1/2018	GBPCZK	11:30:00 AM	29.298	29.296			N/A
11/1/2018	GBPCZK	1:30:00 PM	29.29	29.302			N/A
11/1/2018	GBPCZK	3:30:00 PM	29.295	29.311			N/A
11/1/2018	GBPDKK	9:30:00 AM	8.455	8.464			N/A
11/1/2018	GBPDKK	11:30:00 AM	8.45	8.455			N/A
11/1/2018	GBPDKK	1:30:00 PM	8.444	8.453			N/A
11/1/2018	GBPDKK	3:30:00 PM	8.458	8.47			N/A
11/1/2018	GBPHKD	9:30:00 AM	10.0962	10.099			N/A
11/1/2018	GBPHKD	11:30:00 AM	10.1029	10.0976			N/A
11/1/2018	GBPHKD	1:30:00 PM	10.1037	10.1028			N/A
11/1/2018	GBPHKD	3:30:00 PM	10.1224	10.1262			N/A
11/1/2018	GBPHUF	9:30:00 AM	367.05	367.42			N/A
11/1/2018	GBPHUF	11:30:00 AM	366.39	366.62			N/A
11/1/2018	GBPHUF	1:30:00 PM	365.88	366.21			N/A

11/1/2018	GBPHUF	3:30:00 PM	365.75	366.2			N/A
11/1/2018	GBPJPY	9:30:00 AM	145.381	145.336			N/A
11/1/2018	GBPJPY	11:30:00 AM	145.636	145.523			N/A
11/1/2018	GBPJPY	1:30:00 PM	145.66	145.617			N/A
11/1/2018	GBPJPY	3:30:00 PM	145.731	145.729			N/A
11/1/2018	GBPMXN	9:30:00 AM	26.0996	26.0913			N/A
11/1/2018	GBPMXN	11:30:00 AM	26.049	26.0364			N/A
11/1/2018	GBPMXN	1:30:00 PM	25.9859	25.9827			N/A
11/1/2018	GBPMXN	3:30:00 PM	26.0135	26.0214			N/A
11/1/2018	GBPNOK	9:30:00 AM	10.7915	10.7965			N/A
11/1/2018	GBPNOK	11:30:00 AM	10.7804	10.7838			N/A
11/1/2018	GBPNOK	1:30:00 PM	10.7769	10.7818			N/A
11/1/2018	GBPNOK	3:30:00 PM	10.7811	10.7922			N/A
11/1/2018	GBPNZD	9:30:00 AM	1.95046	1.9509			N/A
11/1/2018	GBPNZD	11:30:00 AM	1.94959	1.94836			N/A
11/1/2018	GBPNZD	1:30:00 PM	1.95088	1.95078			N/A
11/1/2018	GBPNZD	3:30:00 PM	1.94957	1.95015			N/A
11/1/2018	GBPPLN	9:30:00 AM	4.9092	4.9089			N/A
11/1/2018	GBPPLN	11:30:00 AM	4.9014	4.8995			N/A
11/1/2018	GBPPLN	1:30:00 PM	4.8985	4.8987			N/A
11/1/2018	GBPPLN	3:30:00 PM	4.9066	4.9076			N/A
11/1/2018	GBPSEK	9:30:00 AM	11.7015	11.6999			N/A
11/1/2018	GBPSEK	11:30:00 AM	11.6823	11.6832			N/A
11/1/2018	GBPSEK	1:30:00 PM	11.6666	11.6693			N/A
11/1/2018	GBPSEK	3:30:00 PM	11.7048	11.7131			N/A
11/1/2018	GBPSGD	9:30:00 AM	1.779	1.7795			N/A
11/1/2018	GBPSGD	11:30:00 AM	1.7796	1.7788			N/A
11/1/2018	GBPSGD	1:30:00 PM	1.7794	1.7794			N/A
11/1/2018	GBPSGD	3:30:00 PM	1.7803	1.7807			N/A
11/1/2018	GBPUSD	9:30:00 AM	1.28826	1.28805			N/A
11/1/2018	GBPUSD	11:30:00 AM	1.28919	1.28781			N/A
11/1/2018	GBPUSD	1:30:00 PM	1.2896	1.28876	20	20	N/A
11/1/2018	GBPUSD	3:30:00 PM	1.29217	1.29196			N/A
11/1/2018	GBPZAR	9:30:00 AM	18.8605	18.8738			N/A
11/1/2018	GBPZAR	11:30:00 AM	18.7905	18.8026			N/A
11/1/2018	GBPZAR	1:30:00 PM	18.7484	18.7688			N/A
11/1/2018	GBPZAR	3:30:00 PM	18.8102	18.8342			N/A
11/1/2018	GOLD	9:30:00 AM	1224.15	1223.67			N/A
11/1/2018	GOLD	11:30:00 AM	1224.27	1224.14			N/A
11/1/2018	GOLD	1:30:00 PM	1224.28	1224.1			N/A
11/1/2018	GOLD	3:30:00 PM	1230.9	1229.96			N/A
11/1/2018	HKDJPY	9:30:00 AM	14.4	14.42			N/A
11/1/2018	HKDJPY	11:30:00 AM					N/A
11/1/2018	HKDJPY	1:30:00 PM					N/A
11/1/2018	HKDJPY	3:30:00 PM					N/A
11/1/2018	HUFJPY	9:30:00 AM	0.3956	0.3959			N/A
11/1/2018	HUFJPY	11:30:00 AM	0.3972	0.3975			N/A
11/1/2018	HUFJPY	1:30:00 PM					N/A
11/1/2018	HUFJPY	3:30:00 PM	0.3982	0.3985			N/A
11/1/2018	MXNJPY	9:30:00 AM					N/A

11/1/2018	MXNJPY	11:30:00 AM					N/A
11/1/2018	MXNJPY	1:30:00 PM					N/A
11/1/2018	MXNJPY	3:30:00 PM					N/A
11/1/2018	NOKJPY	9:30:00 AM	13.46	13.5			N/A
11/1/2018	NOKJPY	11:30:00 AM	13.5	13.54			N/A
11/1/2018	NOKJPY	1:30:00 PM					N/A
11/1/2018	NOKJPY	3:30:00 PM					N/A
11/1/2018	NZDCAD	9:30:00 AM	0.86662	0.86721			N/A
11/1/2018	NZDCAD	11:30:00 AM	0.86627	0.86684			N/A
11/1/2018	NZDCAD	1:30:00 PM	0.86626	0.86686			N/A
11/1/2018	NZDCAD	3:30:00 PM	0.866	0.86642			N/A
11/1/2018	NZDCHF	9:30:00 AM	0.66322	0.6638			N/A
11/1/2018	NZDCHF	11:30:00 AM	0.6632	0.66383			N/A
11/1/2018	NZDCHF	1:30:00 PM	0.66258	0.66317			N/A
11/1/2018	NZDCHF	3:30:00 PM	0.6649	0.66537			N/A
11/1/2018	NZDCZK	9:30:00 AM	15.066	15.072			N/A
11/1/2018	NZDCZK	11:30:00 AM	15.025	15.036			N/A
11/1/2018	NZDCZK	1:30:00 PM	15.012	15.018			N/A
11/1/2018	NZDCZK	3:30:00 PM	15.023	15.031			N/A
11/1/2018	NZDDKK	9:30:00 AM	4.334	4.338			N/A
11/1/2018	NZDDKK	11:30:00 AM	4.334	4.338			N/A
11/1/2018	NZDDKK	1:30:00 PM	4.328	4.332			N/A
11/1/2018	NZDDKK	3:30:00 PM	4.338	4.342			N/A
11/1/2018	NZDHKD	9:30:00 AM	5.1746	5.1757			N/A
11/1/2018	NZDHKD	11:30:00 AM	5.1798	5.1818			N/A
11/1/2018	NZDHKD	1:30:00 PM	5.1772	5.1793			N/A
11/1/2018	NZDHKD	3:30:00 PM	5.1901	5.1923			N/A
11/1/2018	NZDHUF	9:30:00 AM	188.12	188.36			N/A
11/1/2018	NZDHUF	11:30:00 AM	187.87	188.14			N/A
11/1/2018	NZDHUF	1:30:00 PM	187.47	187.74			N/A
11/1/2018	NZDHUF	3:30:00 PM	187.54	187.8			N/A
11/1/2018	NZDJPY	9:30:00 AM	74.502	74.524			N/A
11/1/2018	NZDJPY	11:30:00 AM	74.664	74.718			N/A
11/1/2018	NZDJPY	1:30:00 PM	74.628	74.679			N/A
11/1/2018	NZDJPY	3:30:00 PM	74.718	74.76			N/A
11/1/2018	NZDMXN	9:30:00 AM	13.3783	13.3709			N/A
11/1/2018	NZDMXN	11:30:00 AM	13.3576	13.36			N/A
11/1/2018	NZDMXN	1:30:00 PM	13.3168	13.3195			N/A
11/1/2018	NZDMXN	3:30:00 PM	13.34	13.3434			N/A
11/1/2018	NZDNOK	9:30:00 AM	5.5303	5.5318			N/A
11/1/2018	NZDNOK	11:30:00 AM	5.5278	5.5313			N/A
11/1/2018	NZDNOK	1:30:00 PM	5.5216	5.5249			N/A
11/1/2018	NZDNOK	3:30:00 PM	5.5277	5.5313			N/A
11/1/2018	NZDPLN	9:30:00 AM	2.5144	2.5157			N/A
11/1/2018	NZDPLN	11:30:00 AM	2.5121	2.5134			N/A
11/1/2018	NZDPLN	1:30:00 PM	2.5104	2.5111			N/A
11/1/2018	NZDPLN	3:30:00 PM	2.515	2.5163			N/A
11/1/2018	NZDSEK	9:30:00 AM	5.9903	5.9953			N/A
11/1/2018	NZDSEK	11:30:00 AM	5.988	5.9941			N/A
11/1/2018	NZDSEK	1:30:00 PM	5.9746	5.9814			N/A

11/1/2018	NZDSEK	3:30:00 PM	5.9992	6.0054			N/A
11/1/2018	NZDSGD	9:30:00 AM	0.9119	0.9123			N/A
11/1/2018	NZDSGD	11:30:00 AM	0.9127	0.9133			N/A
11/1/2018	NZDSGD	1:30:00 PM	0.9119	0.9127			N/A
11/1/2018	NZDSGD	3:30:00 PM	0.9131	0.9137			N/A
11/1/2018	NZDUSD	9:30:00 AM	0.66029	0.66015			N/A
11/1/2018	NZDUSD	11:30:00 AM	0.66106	0.66094			N/A
11/1/2018	NZDUSD	1:30:00 PM	0.66081	0.66074			N/A
11/1/2018	NZDUSD	3:30:00 PM	0.66264	0.66251			N/A
11/1/2018	NZDZAR	9:30:00 AM	9.6614	9.6703			N/A
11/1/2018	NZDZAR	11:30:00 AM	9.6306	9.6439			N/A
11/1/2018	NZDZAR	1:30:00 PM	9.6022	9.6186			N/A
11/1/2018	NZDZAR	3:30:00 PM	9.6395	9.6554			N/A
11/1/2018	SEKJPY	9:30:00 AM	12.43	12.44			N/A
11/1/2018	SEKJPY	11:30:00 AM					N/A
11/1/2018	SEKJPY	1:30:00 PM					N/A
11/1/2018	SEKJPY	3:30:00 PM	12.45	12.46			N/A
11/1/2018	SGDJPY	9:30:00 AM	81.68	81.69			N/A
11/1/2018	SGDJPY	11:30:00 AM	81.81	81.82			N/A
11/1/2018	SGDJPY	1:30:00 PM	81.83	81.84			N/A
11/1/2018	SGDJPY	3:30:00 PM	81.82	81.85			N/A
11/1/2018	SILVER	9:30:00 AM	14.21	14.58			N/A
11/1/2018	SILVER	11:30:00 AM	14.24	14.61			N/A
11/1/2018	SILVER	1:30:00 PM	14.23	14.6			N/A
11/1/2018	SILVER	3:30:00 PM	14.43	14.79			N/A
11/1/2018	USDCAD	9:30:00 AM	1.31292	1.31287			N/A
11/1/2018	USDCAD	11:30:00 AM	1.31087	1.31084			N/A
11/1/2018	USDCAD	1:30:00 PM	1.31133	1.31124			N/A
11/1/2018	USDCAD	3:30:00 PM	1.30731	1.30731			N/A
11/1/2018	USDCHF	9:30:00 AM	1.0048	1.00479	10	10	N/A
11/1/2018	USDCHF	11:30:00 AM	1.00367	1.0036			N/A
11/1/2018	USDCHF	1:30:00 PM	1.00303	1.00299			N/A
11/1/2018	USDCHF	3:30:00 PM	1.00379	1.00378			N/A
11/1/2018	USDCZK	9:30:00 AM	22.815	22.838			N/A
11/1/2018	USDCZK	11:30:00 AM	22.731	22.752			N/A
11/1/2018	USDCZK	1:30:00 PM	22.715	22.733			N/A
11/1/2018	USDCZK	3:30:00 PM	22.674	22.697			N/A
11/1/2018	USDDKK	9:30:00 AM	6.5666	6.5709			N/A
11/1/2018	USDDKK	11:30:00 AM	6.5601	6.5637			N/A
11/1/2018	USDDKK	1:30:00 PM	6.5532	6.557			N/A
11/1/2018	USDDKK	3:30:00 PM	6.5505	6.5551			N/A
11/1/2018	USDHKD	9:30:00 AM	7.8398	7.8403			N/A
11/1/2018	USDHKD	11:30:00 AM	7.8394	7.8399			N/A
11/1/2018	USDHKD	1:30:00 PM	7.8377	7.8382			N/A
11/1/2018	USDHKD	3:30:00 PM	7.8367	7.8371			N/A
11/1/2018	USDHUF	9:30:00 AM	285	285.43			N/A
11/1/2018	USDHUF	11:30:00 AM	284.32	284.72			N/A
11/1/2018	USDHUF	1:30:00 PM	283.81	284.22			N/A
11/1/2018	USDHUF	3:30:00 PM	283.17	283.59			N/A
11/1/2018	USDJPY	9:30:00 AM	112.878	112.825			N/A

11/1/2018	USDJPY	11:30:00 AM	112.995	112.984			N/A
11/1/2018	USDJPY	1:30:00 PM	112.973	112.95			N/A
11/1/2018	USDJPY	3:30:00 PM	112.806	112.789			N/A
11/1/2018	USDMXN	9:30:00 AM	20.271	20.256			N/A
11/1/2018	USDMXN	11:30:00 AM	20.212	20.221			N/A
11/1/2018	USDMXN	1:30:00 PM	20.16	20.167			N/A
11/1/2018	USDMXN	3:30:00 PM	20.141	20.145			N/A
11/1/2018	USDNOK	9:30:00 AM	8.379	8.3825			N/A
11/1/2018	USDNOK	11:30:00 AM	8.3654	8.3717			N/A
11/1/2018	USDNOK	1:30:00 PM	8.3579	8.3668			N/A
11/1/2018	USDNOK	3:30:00 PM	8.3459	8.3538			N/A
11/1/2018	USDPLN	9:30:00 AM	3.8107	3.8111			N/A
11/1/2018	USDPLN	11:30:00 AM	3.8026	3.8034			N/A
11/1/2018	USDPLN	1:30:00 PM	3.7996	3.7998			N/A
11/1/2018	USDPLN	3:30:00 PM	3.798	3.7978			N/A
11/1/2018	USDRUR	9:30:00 AM					N/A
11/1/2018	USDRUR	11:30:00 AM	65.454	65.836			N/A
11/1/2018	USDRUR	1:30:00 PM	65.5	65.879			N/A
11/1/2018	USDRUR	3:30:00 PM	65.502	65.895			N/A
11/1/2018	USDSEK	9:30:00 AM	9.0821	9.0801			N/A
11/1/2018	USDSEK	11:30:00 AM	9.0637	9.0651			N/A
11/1/2018	USDSEK	1:30:00 PM	9.0463	9.0492			N/A
11/1/2018	USDSEK	3:30:00 PM	9.0602	9.0628			N/A
11/1/2018	USDSGD	9:30:00 AM	1.381	1.3814			N/A
11/1/2018	USDSGD	11:30:00 AM	1.3806	1.3807			N/A
11/1/2018	USDSGD	1:30:00 PM	1.3799	1.3803			N/A
11/1/2018	USDSGD	3:30:00 PM	1.3778	1.3782			N/A
11/1/2018	USDZAR	9:30:00 AM	14.6424	14.6506			N/A
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11/1/2018	XAUUSD	11:30:00 AM	1224.27	1224.13			N/A
11/1/2018	XAUUSD	1:30:00 PM	1224.28	1224.09			N/A
11/1/2018	XAUUSD	3:30:00 PM	1230.9	1229.95			N/A
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11/1/2018	ZARJPY	11:30:00 AM					N/A
11/1/2018	ZARJPY	1:30:00 PM	7.72	7.75			N/A
11/1/2018	ZARJPY	3:30:00 PM	7.69	7.72			N/A
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11/2/2018	#PG	3:30:00 PM					N/A
11/2/2018	#QCOM	9:30:00 AM					N/A
11/2/2018	#QCOM	11:30:00 AM					N/A
11/2/2018	#QCOM	1:30:00 PM					N/A
11/2/2018	#QCOM	3:30:00 PM					N/A
11/2/2018	#QQQ	9:30:00 AM					N/A
11/2/2018	#QQQ	11:30:00 AM					N/A
11/2/2018	#QQQ	1:30:00 PM					N/A
11/2/2018	#QQQ	3:30:00 PM					N/A
11/2/2018	#S	9:30:00 AM					N/A
11/2/2018	#S	11:30:00 AM					N/A
11/2/2018	#S	1:30:00 PM					N/A
11/2/2018	#S	3:30:00 PM					N/A
11/2/2018	#SBUX	9:30:00 AM					N/A
11/2/2018	#SBUX	11:30:00 AM					N/A
11/2/2018	#SBUX	1:30:00 PM					N/A
11/2/2018	#SBUX	3:30:00 PM					N/A
11/2/2018	#SNE	9:30:00 AM					N/A
11/2/2018	#SNE	11:30:00 AM					N/A
11/2/2018	#SNE	1:30:00 PM					N/A
11/2/2018	#SNE	3:30:00 PM					N/A
11/2/2018	#SPY	9:30:00 AM					N/A
11/2/2018	#SPY	11:30:00 AM					N/A
11/2/2018	#SPY	1:30:00 PM					N/A
11/2/2018	#SPY	3:30:00 PM					N/A
11/2/2018	#T	9:30:00 AM					N/A
11/2/2018	#T	11:30:00 AM					N/A
11/2/2018	#T	1:30:00 PM					N/A
11/2/2018	#T	3:30:00 PM					N/A
11/2/2018	#TEVA	9:30:00 AM					N/A
11/2/2018	#TEVA	11:30:00 AM					N/A
11/2/2018	#TEVA	1:30:00 PM					N/A
11/2/2018	#TEVA	3:30:00 PM					N/A
11/2/2018	#TRI	9:30:00 AM					N/A
11/2/2018	#TRI	11:30:00 AM					N/A
11/2/2018	#TRI	1:30:00 PM					N/A
11/2/2018	#TRI	3:30:00 PM					N/A
11/2/2018	#TRV	9:30:00 AM					N/A
11/2/2018	#TRV	11:30:00 AM					N/A
11/2/2018	#TRV	1:30:00 PM					N/A
11/2/2018	#TRV	3:30:00 PM					N/A
11/2/2018	#TSCO	9:30:00 AM					N/A
11/2/2018	#TSCO	11:30:00 AM					N/A
11/2/2018	#TSCO	1:30:00 PM					N/A
11/2/2018	#TSCO	3:30:00 PM					N/A
11/2/2018	#TSLA	9:30:00 AM					N/A
11/2/2018	#TSLA	11:30:00 AM					N/A
11/2/2018	#TSLA	1:30:00 PM					N/A
11/2/2018	#TSLA	3:30:00 PM					N/A
11/2/2018	#TWTR	9:30:00 AM					N/A

11/2/2018	#TWTR	11:30:00 AM					N/A
11/2/2018	#TWTR	1:30:00 PM					N/A
11/2/2018	#TWTR	3:30:00 PM					N/A
11/2/2018	#UBS	9:30:00 AM					N/A
11/2/2018	#UBS	11:30:00 AM					N/A
11/2/2018	#UBS	1:30:00 PM					N/A
11/2/2018	#UBS	3:30:00 PM					N/A
11/2/2018	#UL	9:30:00 AM					N/A
11/2/2018	#UL	11:30:00 AM					N/A
11/2/2018	#UL	1:30:00 PM					N/A
11/2/2018	#UL	3:30:00 PM					N/A
11/2/2018	#UPS	9:30:00 AM					N/A
11/2/2018	#UPS	11:30:00 AM					N/A
11/2/2018	#UPS	1:30:00 PM					N/A
11/2/2018	#UPS	3:30:00 PM					N/A
11/2/2018	#UTX	9:30:00 AM					N/A
11/2/2018	#UTX	11:30:00 AM					N/A
11/2/2018	#UTX	1:30:00 PM					N/A
11/2/2018	#UTX	3:30:00 PM					N/A
11/2/2018	#V	9:30:00 AM					N/A
11/2/2018	#V	11:30:00 AM					N/A
11/2/2018	#V	1:30:00 PM					N/A
11/2/2018	#V	3:30:00 PM					N/A
11/2/2018	#VOD	9:30:00 AM					N/A
11/2/2018	#VOD	11:30:00 AM					N/A
11/2/2018	#VOD	1:30:00 PM					N/A
11/2/2018	#VOD	3:30:00 PM					N/A
11/2/2018	#VZ	9:30:00 AM					N/A
11/2/2018	#VZ	11:30:00 AM					N/A
11/2/2018	#VZ	1:30:00 PM					N/A
11/2/2018	#VZ	3:30:00 PM					N/A
11/2/2018	#WDC	9:30:00 AM					N/A
11/2/2018	#WDC	11:30:00 AM					N/A
11/2/2018	#WDC	1:30:00 PM					N/A
11/2/2018	#WDC	3:30:00 PM					N/A
11/2/2018	#WFC	9:30:00 AM					N/A
11/2/2018	#WFC	11:30:00 AM					N/A
11/2/2018	#WFC	1:30:00 PM					N/A
11/2/2018	#WFC	3:30:00 PM					N/A
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11/2/2018	#WMT	11:30:00 AM					N/A
11/2/2018	#WMT	1:30:00 PM					N/A
11/2/2018	#WMT	3:30:00 PM					N/A
11/2/2018	#XOM	9:30:00 AM					N/A
11/2/2018	#XOM	11:30:00 AM					N/A
11/2/2018	#XOM	1:30:00 PM					N/A
11/2/2018	#XOM	3:30:00 PM					N/A
11/2/2018	#YHOO	9:30:00 AM					N/A
11/2/2018	#YHOO	11:30:00 AM					N/A
11/2/2018	#YHOO	1:30:00 PM					N/A

11/2/2018	#YHOO	3:30:00 PM					N/A
11/2/2018	#ZNGA	9:30:00 AM					N/A
11/2/2018	#ZNGA	11:30:00 AM					N/A
11/2/2018	#ZNGA	1:30:00 PM					N/A
11/2/2018	#ZNGA	3:30:00 PM					N/A
11/2/2018	AUDCAD	9:30:00 AM	0.94524	0.94578			N/A
11/2/2018	AUDCAD	11:30:00 AM	0.94455	0.9452			N/A
11/2/2018	AUDCAD	1:30:00 PM	0.94585	0.94624			N/A
11/2/2018	AUDCAD	3:30:00 PM	0.94457	0.94494			N/A
11/2/2018	AUDCHF	9:30:00 AM	0.72471	0.72506			N/A
11/2/2018	AUDCHF	11:30:00 AM	0.72314	0.72378			N/A
11/2/2018	AUDCHF	1:30:00 PM	0.72251	0.72302			N/A
11/2/2018	AUDCHF	3:30:00 PM	0.72137	0.72186			N/A
11/2/2018	AUDCZK	9:30:00 AM	16.348	16.36			N/A
11/2/2018	AUDCZK	11:30:00 AM	16.332	16.347			N/A
11/2/2018	AUDCZK	1:30:00 PM	16.314	16.326			N/A
11/2/2018	AUDCZK	3:30:00 PM	16.279	16.292			N/A
11/2/2018	AUDDKK	9:30:00 AM	4.7234	4.727			N/A
11/2/2018	AUDDKK	11:30:00 AM	4.7204	4.7247			N/A
11/2/2018	AUDDKK	1:30:00 PM	4.7201	4.7234			N/A
11/2/2018	AUDDKK	3:30:00 PM	4.7116	4.7157			N/A
11/2/2018	AUDHKD	9:30:00 AM	5.6731	5.6754			N/A
11/2/2018	AUDHKD	11:30:00 AM	5.6686	5.6719			N/A
11/2/2018	AUDHKD	1:30:00 PM	5.6673	5.6682			N/A
11/2/2018	AUDHKD	3:30:00 PM	5.6419	5.6455			N/A
11/2/2018	AUDHUF	9:30:00 AM	203.95	204.15			N/A
11/2/2018	AUDHUF	11:30:00 AM	203.72	203.95			N/A
11/2/2018	AUDHUF	1:30:00 PM	203.47	203.67			N/A
11/2/2018	AUDHUF	3:30:00 PM	203.01	203.23			N/A
11/2/2018	AUDJPY	9:30:00 AM	81.801	81.823			N/A
11/2/2018	AUDJPY	11:30:00 AM	81.61	81.661			N/A
11/2/2018	AUDJPY	1:30:00 PM	81.781	81.82			N/A
11/2/2018	AUDJPY	3:30:00 PM	81.383	81.408			N/A
11/2/2018	AUDMXN	9:30:00 AM	14.5231	14.5294			N/A
11/2/2018	AUDMXN	11:30:00 AM	14.4333	14.4391			N/A
11/2/2018	AUDMXN	1:30:00 PM	14.4332	14.4245			N/A
11/2/2018	AUDMXN	3:30:00 PM	14.4096	14.4178			N/A
11/2/2018	AUDNOK	9:30:00 AM	6.0199	6.0223			N/A
11/2/2018	AUDNOK	11:30:00 AM	6.0172	6.0223			N/A
11/2/2018	AUDNOK	1:30:00 PM	6.0186	6.0228			N/A
11/2/2018	AUDNOK	3:30:00 PM	6.0062	6.0117			N/A
11/2/2018	AUDNZD	9:30:00 AM	1.08477	1.08527			N/A
11/2/2018	AUDNZD	11:30:00 AM	1.08467	1.08518			N/A
11/2/2018	AUDNZD	1:30:00 PM	1.08409	1.08472			N/A
11/2/2018	AUDNZD	3:30:00 PM	1.08255	1.08316			N/A
11/2/2018	AUDPLN	9:30:00 AM	2.7319	2.7347			N/A
11/2/2018	AUDPLN	11:30:00 AM	2.7333	2.7361			N/A
11/2/2018	AUDPLN	1:30:00 PM	2.7342	2.7363			N/A
11/2/2018	AUDPLN	3:30:00 PM	2.7285	2.7315			N/A
11/2/2018	AUDSEK	9:30:00 AM	6.5193	6.522			N/A

11/2/2018	AUDSEK	11:30:00 AM	6.5183	6.5212			N/A
11/2/2018	AUDSEK	1:30:00 PM	6.5191	6.5209			N/A
11/2/2018	AUDSEK	3:30:00 PM	6.5127	6.5152			N/A
11/2/2018	AUDSGD	9:30:00 AM	0.9944	0.9946			N/A
11/2/2018	AUDSGD	11:30:00 AM	0.9936	0.9938			N/A
11/2/2018	AUDSGD	1:30:00 PM	0.9931	0.9933			N/A
11/2/2018	AUDSGD	3:30:00 PM	0.9902	0.9905			N/A
11/2/2018	AUDUSD	9:30:00 AM	0.7244	0.72407			N/A
11/2/2018	AUDUSD	11:30:00 AM	0.72392	0.7239			N/A
11/2/2018	AUDUSD	1:30:00 PM	0.72482	0.72448			N/A
11/2/2018	AUDUSD	3:30:00 PM	0.72095	0.72087			N/A
11/2/2018	AUDZAR	9:30:00 AM	10.3836	10.3866			N/A
11/2/2018	AUDZAR	11:30:00 AM	10.3453	10.3552			N/A
11/2/2018	AUDZAR	1:30:00 PM	10.3701	10.3774			N/A
11/2/2018	AUDZAR	3:30:00 PM	10.3221	10.3325			N/A
11/2/2018	CADCHF	9:30:00 AM	0.7664	0.76686			N/A
11/2/2018	CADCHF	11:30:00 AM	0.76533	0.76602			N/A
11/2/2018	CADCHF	1:30:00 PM	0.76366	0.7642			N/A
11/2/2018	CADCHF	3:30:00 PM	0.76348	0.76409			N/A
11/2/2018	CADCZK	9:30:00 AM	17.296	17.307			N/A
11/2/2018	CADCZK	11:30:00 AM	17.288	17.303			N/A
11/2/2018	CADCZK	1:30:00 PM	17.247	17.262			N/A
11/2/2018	CADCZK	3:30:00 PM	17.235	17.246			N/A
11/2/2018	CADDKK	9:30:00 AM					N/A
11/2/2018	CADDKK	11:30:00 AM					N/A
11/2/2018	CADDKK	1:30:00 PM	4.99	4.994			N/A
11/2/2018	CADDKK	3:30:00 PM	4.989	4.992			N/A
11/2/2018	CADHKD	9:30:00 AM	6.0015	6.0052			N/A
11/2/2018	CADHKD	11:30:00 AM	6.0006	6.0043			N/A
11/2/2018	CADHKD	1:30:00 PM	5.9919	5.994			N/A
11/2/2018	CADHKD	3:30:00 PM	5.9731	5.9769			N/A
11/2/2018	CADHUF	9:30:00 AM	215.79	215.94			N/A
11/2/2018	CADHUF	11:30:00 AM	215.69	215.82			N/A
11/2/2018	CADHUF	1:30:00 PM	215.15	215.31			N/A
11/2/2018	CADHUF	3:30:00 PM	214.97	215.12			N/A
11/2/2018	CADJPY	9:30:00 AM	86.508	86.548			N/A
11/2/2018	CADJPY	11:30:00 AM	86.369	86.429			N/A
11/2/2018	CADJPY	1:30:00 PM	86.438	86.489			N/A
11/2/2018	CADJPY	3:30:00 PM	86.13	86.171			N/A
11/2/2018	CADMXN	9:30:00 AM	15.3655	15.3725			N/A
11/2/2018	CADMXN	11:30:00 AM	15.2789	15.2873			N/A
11/2/2018	CADMXN	1:30:00 PM	15.2611	15.252			N/A
11/2/2018	CADMXN	3:30:00 PM	15.2572	15.2662			N/A
11/2/2018	CADNOK	9:30:00 AM	6.3694	6.3697			N/A
11/2/2018	CADNOK	11:30:00 AM	6.3704	6.3742			N/A
11/2/2018	CADNOK	1:30:00 PM	6.3641	6.3678			N/A
11/2/2018	CADNOK	3:30:00 PM	6.3597	6.3636			N/A
11/2/2018	CADPLN	9:30:00 AM	2.8895	2.891			N/A
11/2/2018	CADPLN	11:30:00 AM	2.8932	2.8944			N/A
11/2/2018	CADPLN	1:30:00 PM	2.8911	2.8925			N/A

11/2/2018	CADPLN	3:30:00 PM	2.8882	2.8901			N/A
11/2/2018	CADSEK	9:30:00 AM	6.8951	6.899			N/A
11/2/2018	CADSEK	11:30:00 AM	6.8998	6.9034			N/A
11/2/2018	CADSEK	1:30:00 PM	6.8909	6.8933			N/A
11/2/2018	CADSEK	3:30:00 PM	6.8948	6.8964			N/A
11/2/2018	CADSGD	9:30:00 AM	1.0517	1.052			N/A
11/2/2018	CADSGD	11:30:00 AM	1.0519	1.0522			N/A
11/2/2018	CADSGD	1:30:00 PM	1.0499	1.0502			N/A
11/2/2018	CADSGD	3:30:00 PM	1.0485	1.0488			N/A
11/2/2018	CADZAR	9:30:00 AM	10.9752	10.9837			N/A
11/2/2018	CADZAR	11:30:00 AM	10.9454	10.9587			N/A
11/2/2018	CADZAR	1:30:00 PM	10.9577	10.9697			N/A
11/2/2018	CADZAR	3:30:00 PM	10.9228	10.9314			N/A
11/2/2018	CHFCZK	9:30:00 AM	22.563	22.577			N/A
11/2/2018	CHFCZK	11:30:00 AM	22.583	22.595			N/A
11/2/2018	CHFCZK	1:30:00 PM	22.58	22.596			N/A
11/2/2018	CHFCZK	3:30:00 PM	22.57	22.578			N/A
11/2/2018	CHFDKK	9:30:00 AM	6.518	6.521			N/A
11/2/2018	CHFDKK	11:30:00 AM	6.526	6.53			N/A
11/2/2018	CHFDKK	1:30:00 PM	6.532	6.536			N/A
11/2/2018	CHFDKK	3:30:00 PM					N/A
11/2/2018	CHFHKD	9:30:00 AM	7.8289	7.8328			N/A
11/2/2018	CHFHKD	11:30:00 AM	7.838	7.8409			N/A
11/2/2018	CHFHKD	1:30:00 PM	7.844	7.8453			N/A
11/2/2018	CHFHKD	3:30:00 PM	7.8218	7.8246			N/A
11/2/2018	CHFHUF	9:30:00 AM	281.42	281.74			N/A
11/2/2018	CHFHUF	11:30:00 AM	281.62	281.93			N/A
11/2/2018	CHFHUF	1:30:00 PM	281.55	281.92			N/A
11/2/2018	CHFHUF	3:30:00 PM	281.39	281.74			N/A
11/2/2018	CHFJPY	9:30:00 AM	112.84	112.868			N/A
11/2/2018	CHFJPY	11:30:00 AM	112.819	112.821			N/A
11/2/2018	CHFJPY	1:30:00 PM	113.151	113.17			N/A
11/2/2018	CHFJPY	3:30:00 PM	112.778	112.783			N/A
11/2/2018	CHFMXN	9:30:00 AM	20.0433	20.0491			N/A
11/2/2018	CHFMXN	11:30:00 AM	19.9528	19.9661			N/A
11/2/2018	CHFMXN	1:30:00 PM	19.9766	19.9626			N/A
11/2/2018	CHFMXN	3:30:00 PM	19.9756	19.9849			N/A
11/2/2018	CHFNOK	9:30:00 AM	8.3092	8.3094			N/A
11/2/2018	CHFNOK	11:30:00 AM	8.3195	8.3271			N/A
11/2/2018	CHFNOK	1:30:00 PM	8.3285	8.3367			N/A
11/2/2018	CHFNOK	3:30:00 PM	8.3256	8.3328			N/A
11/2/2018	CHFPLN	9:30:00 AM	3.7703	3.7719			N/A
11/2/2018	CHFPLN	11:30:00 AM	3.7785	3.7814			N/A
11/2/2018	CHFPLN	1:30:00 PM	3.7831	3.7858			N/A
11/2/2018	CHFPLN	3:30:00 PM	3.7816	3.7843			N/A
11/2/2018	CHFSEK	9:30:00 AM	8.9969	8.9987			N/A
11/2/2018	CHFSEK	11:30:00 AM	9.0129	9.0152			N/A
11/2/2018	CHFSEK	1:30:00 PM	9.0208	9.0246			N/A
11/2/2018	CHFSEK	3:30:00 PM	9.029	9.0296			N/A
11/2/2018	CHFSGD	9:30:00 AM	1.3719	1.3722			N/A

11/2/2018	CHFSGD	11:30:00 AM	1.3734	1.3739			N/A
11/2/2018	CHFSGD	1:30:00 PM	1.3742	1.3744			N/A
11/2/2018	CHFSGD	3:30:00 PM	1.3724	1.3727			N/A
11/2/2018	CHFZAR	9:30:00 AM	14.3231	14.3208			N/A
11/2/2018	CHFZAR	11:30:00 AM	14.2984	14.3098			N/A
11/2/2018	CHFZAR	1:30:00 PM	14.3466	14.3557			N/A
11/2/2018	CHFZAR	3:30:00 PM	14.306	14.3064			N/A
11/2/2018	CZKJPY	9:30:00 AM	5.001	5.003			N/A
11/2/2018	CZKJPY	11:30:00 AM					N/A
11/2/2018	CZKJPY	1:30:00 PM	5.01	5.014			N/A
11/2/2018	CZKJPY	3:30:00 PM	4.998	4.999			N/A
11/2/2018	DKKJPY	9:30:00 AM	17.32	17.33			N/A
11/2/2018	DKKJPY	11:30:00 AM	17.29	17.3			N/A
11/2/2018	DKKJPY	1:30:00 PM					N/A
11/2/2018	DKKJPY	3:30:00 PM	17.27	17.28			N/A
11/2/2018	EURAUD	9:30:00 AM	1.57877	1.57818			N/A
11/2/2018	EURAUD	11:30:00 AM	1.57958	1.57928			N/A
11/2/2018	EURAUD	1:30:00 PM	1.5797	1.57928			N/A
11/2/2018	EURAUD	3:30:00 PM	1.58249	1.5822			N/A
11/2/2018	EURCAD	9:30:00 AM	1.49278	1.49304			N/A
11/2/2018	EURCAD	11:30:00 AM	1.49253	1.49299			N/A
11/2/2018	EURCAD	1:30:00 PM	1.49477	1.49505			N/A
11/2/2018	EURCAD	3:30:00 PM	1.49529	1.49568			N/A
11/2/2018	EURCHF	9:30:00 AM	1.14447	1.14436			N/A
11/2/2018	EURCHF	11:30:00 AM	1.14283	1.14289			N/A
11/2/2018	EURCHF	1:30:00 PM	1.1419	1.14195			N/A
11/2/2018	EURCHF	3:30:00 PM	1.14218	1.14208			N/A
11/2/2018	EURCZK	9:30:00 AM	25.809	25.844			N/A
11/2/2018	EURCZK	11:30:00 AM	25.799	25.838			N/A
11/2/2018	EURCZK	1:30:00 PM	25.772	25.81			N/A
11/2/2018	EURCZK	3:30:00 PM	25.767	25.803			N/A
11/2/2018	EURDKK	9:30:00 AM	7.4594	7.4605			N/A
11/2/2018	EURDKK	11:30:00 AM	7.4592	7.4604			N/A
11/2/2018	EURDKK	1:30:00 PM	7.4596	7.4608			N/A
11/2/2018	EURDKK	3:30:00 PM	7.4595	7.4606			N/A
11/2/2018	EURGBP	9:30:00 AM	0.87819	0.87818			N/A
11/2/2018	EURGBP	11:30:00 AM	0.87763	0.87703			N/A
11/2/2018	EURGBP	1:30:00 PM	0.87897	0.87901			N/A
11/2/2018	EURGBP	3:30:00 PM	0.87841	0.87843			N/A
11/2/2018	EURHKD	9:30:00 AM	8.9585	8.962			N/A
11/2/2018	EURHKD	11:30:00 AM	8.9567	8.961			N/A
11/2/2018	EURHKD	1:30:00 PM	8.9552	8.9583			N/A
11/2/2018	EURHKD	3:30:00 PM	8.9317	8.9361			N/A
11/2/2018	EURHUF	9:30:00 AM	321.94	322.65			N/A
11/2/2018	EURHUF	11:30:00 AM	321.8	322.5			N/A
11/2/2018	EURHUF	1:30:00 PM	321.39	322.12			N/A
11/2/2018	EURHUF	3:30:00 PM	321.25	321.98			N/A
11/2/2018	EURJPY	9:30:00 AM	129.186	129.146			N/A
11/2/2018	EURJPY	11:30:00 AM	128.968	128.94			N/A
11/2/2018	EURJPY	1:30:00 PM	129.237	129.222			N/A

11/2/2018	EURJPY	3:30:00 PM	128.85	128.798			N/A
11/2/2018	EURMXN	9:30:00 AM	22.9393	22.9471			N/A
11/2/2018	EURMXN	11:30:00 AM	22.8057	22.819			N/A
11/2/2018	EURMXN	1:30:00 PM	22.8137	22.7953			N/A
11/2/2018	EURMXN	3:30:00 PM	22.814	22.8287			N/A
11/2/2018	EURNOK	9:30:00 AM	9.5072	9.5112			N/A
11/2/2018	EURNOK	11:30:00 AM	9.5062	9.5184			N/A
11/2/2018	EURNOK	1:30:00 PM	9.5088	9.5215			N/A
11/2/2018	EURNOK	3:30:00 PM	9.5079	9.5193			N/A
11/2/2018	EURNZD	9:30:00 AM	1.71292	1.71339			N/A
11/2/2018	EURNZD	11:30:00 AM	1.71374	1.71443			N/A
11/2/2018	EURNZD	1:30:00 PM	1.71316	1.71364			N/A
11/2/2018	EURNZD	3:30:00 PM	1.71363	1.71412			N/A
11/2/2018	EURPLN	9:30:00 AM	4.3151	4.316			N/A
11/2/2018	EURPLN	11:30:00 AM	4.3185	4.3214			N/A
11/2/2018	EURPLN	1:30:00 PM	4.3201	4.3231			N/A
11/2/2018	EURPLN	3:30:00 PM	4.3194	4.3219			N/A
11/2/2018	EURRUR	9:30:00 AM					N/A
11/2/2018	EURRUR	11:30:00 AM	74.831	75.234			N/A
11/2/2018	EURRUR	1:30:00 PM	74.891	75.323			N/A
11/2/2018	EURRUR	3:30:00 PM	75.127	75.541			N/A
11/2/2018	EURSEK	9:30:00 AM	10.2943	10.2976			N/A
11/2/2018	EURSEK	11:30:00 AM	10.2994	10.3022			N/A
11/2/2018	EURSEK	1:30:00 PM	10.3003	10.3042			N/A
11/2/2018	EURSEK	3:30:00 PM	10.3106	10.3127			N/A
11/2/2018	EURSGD	9:30:00 AM	1.57	1.5706			N/A
11/2/2018	EURSGD	11:30:00 AM	1.5699	1.5704			N/A
11/2/2018	EURSGD	1:30:00 PM	1.569	1.5698			N/A
11/2/2018	EURSGD	3:30:00 PM	1.5672	1.568			N/A
11/2/2018	EURUSD	9:30:00 AM	1.14331	1.14313			N/A
11/2/2018	EURUSD	11:30:00 AM	1.14339	1.14333			N/A
11/2/2018	EURUSD	1:30:00 PM	1.14467	1.1447			N/A
11/2/2018	EURUSD	3:30:00 PM	1.14079	1.14072			N/A
11/2/2018	EURZAR	9:30:00 AM	16.3962	16.3973			N/A
11/2/2018	EURZAR	11:30:00 AM	16.3458	16.357			N/A
11/2/2018	EURZAR	1:30:00 PM	16.3876	16.3967			N/A
11/2/2018	EURZAR	3:30:00 PM	16.3411	16.3496			N/A
11/2/2018	GBPAUD	9:30:00 AM	1.7978	1.79781			N/A
11/2/2018	GBPAUD	11:30:00 AM	1.80101	1.80026			N/A
11/2/2018	GBPAUD	1:30:00 PM	1.79735	1.7975			N/A
11/2/2018	GBPAUD	3:30:00 PM	1.80153	1.80208			N/A
11/2/2018	GBPCAD	9:30:00 AM	1.69969	1.69993			N/A
11/2/2018	GBPCAD	11:30:00 AM	1.70162	1.70103			N/A
11/2/2018	GBPCAD	1:30:00 PM	1.70027	1.70076			N/A
11/2/2018	GBPCAD	3:30:00 PM	1.70216	1.70254			N/A
11/2/2018	GBPCHF	9:30:00 AM	1.30288	1.30356			N/A
11/2/2018	GBPCHF	11:30:00 AM	1.30275	1.3026			N/A
11/2/2018	GBPCHF	1:30:00 PM	1.29879	1.29952			N/A
11/2/2018	GBPCHF	3:30:00 PM	1.30014	1.30031			N/A
11/2/2018	GBPCZK	9:30:00 AM	29.397	29.415			N/A

11/2/2018	GBPCZK	11:30:00 AM	29.422	29.435			N/A
11/2/2018	GBPCZK	1:30:00 PM	29.327	29.349			N/A
11/2/2018	GBPCZK	3:30:00 PM	29.337	29.354			N/A
11/2/2018	GBPDKK	9:30:00 AM	8.491	8.502			N/A
11/2/2018	GBPDKK	11:30:00 AM	8.502	8.508			N/A
11/2/2018	GBPDKK	1:30:00 PM	8.483	8.495			N/A
11/2/2018	GBPDKK	3:30:00 PM	8.489	8.5			N/A
11/2/2018	GBPHKD	9:30:00 AM	10.2003	10.2045			N/A
11/2/2018	GBPHKD	11:30:00 AM	10.2119	10.2135			N/A
11/2/2018	GBPHKD	1:30:00 PM	10.1872	10.1897			N/A
11/2/2018	GBPHKD	3:30:00 PM	10.1671	10.1719			N/A
11/2/2018	GBPHUF	9:30:00 AM	366.65	367.04			N/A
11/2/2018	GBPHUF	11:30:00 AM	366.92	367.28			N/A
11/2/2018	GBPHUF	1:30:00 PM	365.69	366.15			N/A
11/2/2018	GBPHUF	3:30:00 PM	365.78	366.25			N/A
11/2/2018	GBPJPY	9:30:00 AM	147.084	147.093			N/A
11/2/2018	GBPJPY	11:30:00 AM	147.044	146.929			N/A
11/2/2018	GBPJPY	1:30:00 PM	147.011	147.05			N/A
11/2/2018	GBPJPY	3:30:00 PM	146.68	146.649			N/A
11/2/2018	GBPMXN	9:30:00 AM	26.1165	26.1177			N/A
11/2/2018	GBPMXN	11:30:00 AM	25.9997	26.0066			N/A
11/2/2018	GBPMXN	1:30:00 PM	25.9471	25.9223			N/A
11/2/2018	GBPMXN	3:30:00 PM	25.9669	25.9787			N/A
11/2/2018	GBPNOK	9:30:00 AM	10.8271	10.8287			N/A
11/2/2018	GBPNOK	11:30:00 AM	10.8403	10.8442			N/A
11/2/2018	GBPNOK	1:30:00 PM	10.8201	10.8308			N/A
11/2/2018	GBPNOK	3:30:00 PM	10.8254	10.8355			N/A
11/2/2018	GBPNZD	9:30:00 AM	1.95066	1.95085			N/A
11/2/2018	GBPNZD	11:30:00 AM	1.95425	1.95352			N/A
11/2/2018	GBPNZD	1:30:00 PM	1.94907	1.94944			N/A
11/2/2018	GBPNZD	3:30:00 PM	1.95106	1.95138			N/A
11/2/2018	GBPPLN	9:30:00 AM	4.9145	4.9137			N/A
11/2/2018	GBPPLN	11:30:00 AM	4.9246	4.923			N/A
11/2/2018	GBPPLN	1:30:00 PM	4.9159	4.9173			N/A
11/2/2018	GBPPLN	3:30:00 PM	4.9178	4.9196			N/A
11/2/2018	GBPSEK	9:30:00 AM	11.7211	11.7273			N/A
11/2/2018	GBPSEK	11:30:00 AM	11.7419	11.7407			N/A
11/2/2018	GBPSEK	1:30:00 PM	11.7166	11.7246			N/A
11/2/2018	GBPSEK	3:30:00 PM	11.7351	11.7431			N/A
11/2/2018	GBPSGD	9:30:00 AM	1.7879	1.7883			N/A
11/2/2018	GBPSGD	11:30:00 AM	1.7897	1.7893			N/A
11/2/2018	GBPSGD	1:30:00 PM	1.785	1.7857			N/A
11/2/2018	GBPSGD	3:30:00 PM	1.7843	1.7849			N/A
11/2/2018	GBPUSD	9:30:00 AM	1.30212	1.30191	140	140	N/A
11/2/2018	GBPUSD	11:30:00 AM	1.3039	1.30279			N/A
11/2/2018	GBPUSD	1:30:00 PM	1.3025	1.30238			N/A
11/2/2018	GBPUSD	3:30:00 PM	1.29895	1.29882			N/A
11/2/2018	GBPZAR	9:30:00 AM	18.6684	18.6736			N/A
11/2/2018	GBPZAR	11:30:00 AM	18.6304	18.6489			N/A
11/2/2018	GBPZAR	1:30:00 PM	18.6398	18.6563			N/A

11/2/2018	GBPZAR	3:30:00 PM	18.5998	18.6181			N/A
11/2/2018	GOLD	9:30:00 AM	1234	1234.03			N/A
11/2/2018	GOLD	11:30:00 AM	1234.96	1235.05			N/A
11/2/2018	GOLD	1:30:00 PM	1234.99	1234.66			N/A
11/2/2018	GOLD	3:30:00 PM	1233.52	1233.03			N/A
11/2/2018	HKDJPY	9:30:00 AM	14.41	14.43			N/A
11/2/2018	HKDJPY	11:30:00 AM					N/A
11/2/2018	HKDJPY	1:30:00 PM					N/A
11/2/2018	HKDJPY	3:30:00 PM					N/A
11/2/2018	HUFJPY	9:30:00 AM	0.4012	0.4015			N/A
11/2/2018	HUFJPY	11:30:00 AM	0.4007	0.401			N/A
11/2/2018	HUFJPY	1:30:00 PM	0.4017	0.402			N/A
11/2/2018	HUFJPY	3:30:00 PM	0.4008	0.4011			N/A
11/2/2018	MXNJPY	9:30:00 AM					N/A
11/2/2018	MXNJPY	11:30:00 AM	5.66	5.68			N/A
11/2/2018	MXNJPY	1:30:00 PM	5.66	5.68			N/A
11/2/2018	MXNJPY	3:30:00 PM	5.64	5.66			N/A
11/2/2018	NOKJPY	9:30:00 AM	13.57	13.61			N/A
11/2/2018	NOKJPY	11:30:00 AM					N/A
11/2/2018	NOKJPY	1:30:00 PM					N/A
11/2/2018	NOKJPY	3:30:00 PM	13.53	13.57			N/A
11/2/2018	NZDCAD	9:30:00 AM	0.87106	0.87171			N/A
11/2/2018	NZDCAD	11:30:00 AM	0.87048	0.87112			N/A
11/2/2018	NZDCAD	1:30:00 PM	0.87205	0.87262			N/A
11/2/2018	NZDCAD	3:30:00 PM	0.87231	0.87267			N/A
11/2/2018	NZDCHF	9:30:00 AM	0.66773	0.66826			N/A
11/2/2018	NZDCHF	11:30:00 AM	0.66643	0.66707			N/A
11/2/2018	NZDCHF	1:30:00 PM	0.66612	0.66676			N/A
11/2/2018	NZDCHF	3:30:00 PM	0.66614	0.66664			N/A
11/2/2018	NZDCZK	9:30:00 AM	15.068	15.076			N/A
11/2/2018	NZDCZK	11:30:00 AM	15.052	15.062			N/A
11/2/2018	NZDCZK	1:30:00 PM	15.043	15.054			N/A
11/2/2018	NZDCZK	3:30:00 PM	15.034	15.044			N/A
11/2/2018	NZDDKK	9:30:00 AM					N/A
11/2/2018	NZDDKK	11:30:00 AM	4.35	4.354			N/A
11/2/2018	NZDDKK	1:30:00 PM					N/A
11/2/2018	NZDDKK	3:30:00 PM	4.351	4.354			N/A
11/2/2018	NZDHKD	9:30:00 AM	5.2276	5.2295			N/A
11/2/2018	NZDHKD	11:30:00 AM	5.2237	5.2264			N/A
11/2/2018	NZDHKD	1:30:00 PM	5.2253	5.2265			N/A
11/2/2018	NZDHKD	3:30:00 PM	5.2101	5.2129			N/A
11/2/2018	NZDHUF	9:30:00 AM	187.91	188.18			N/A
11/2/2018	NZDHUF	11:30:00 AM	187.69	187.93			N/A
11/2/2018	NZDHUF	1:30:00 PM	187.55	187.84			N/A
11/2/2018	NZDHUF	3:30:00 PM	187.43	187.7			N/A
11/2/2018	NZDJPY	9:30:00 AM	75.373	75.415			N/A
11/2/2018	NZDJPY	11:30:00 AM	75.208	75.257			N/A
11/2/2018	NZDJPY	1:30:00 PM	75.403	75.457			N/A
11/2/2018	NZDJPY	3:30:00 PM	75.155	75.182			N/A
11/2/2018	NZDMXN	9:30:00 AM	13.3855	13.3867			N/A

11/2/2018	NZDMXN	11:30:00 AM	13.3004	13.3045			N/A
11/2/2018	NZDMXN	1:30:00 PM	13.3092	13.2969			N/A
11/2/2018	NZDMXN	3:30:00 PM	13.3076	13.3108			N/A
11/2/2018	NZDNOK	9:30:00 AM	5.548	5.5479			N/A
11/2/2018	NZDNOK	11:30:00 AM	5.5452	5.548			N/A
11/2/2018	NZDNOK	1:30:00 PM	5.5494	5.5528			N/A
11/2/2018	NZDNOK	3:30:00 PM	5.547	5.55			N/A
11/2/2018	NZDPLN	9:30:00 AM	2.5168	2.5178			N/A
11/2/2018	NZDPLN	11:30:00 AM	2.5181	2.5194			N/A
11/2/2018	NZDPLN	1:30:00 PM	2.5211	2.5224			N/A
11/2/2018	NZDPLN	3:30:00 PM	2.519	2.5205			N/A
11/2/2018	NZDSEK	9:30:00 AM	6.0044	6.0109			N/A
11/2/2018	NZDSEK	11:30:00 AM	6.0041	6.0105			N/A
11/2/2018	NZDSEK	1:30:00 PM	6.0073	6.0137			N/A
11/2/2018	NZDSEK	3:30:00 PM	6.0103	6.0171			N/A
11/2/2018	NZDSGD	9:30:00 AM	0.9164	0.917			N/A
11/2/2018	NZDSGD	11:30:00 AM	0.9158	0.9163			N/A
11/2/2018	NZDSGD	1:30:00 PM	0.9158	0.9163			N/A
11/2/2018	NZDSGD	3:30:00 PM	0.9145	0.9151			N/A
11/2/2018	NZDUSD	9:30:00 AM	0.66738	0.66728			N/A
11/2/2018	NZDUSD	11:30:00 AM	0.66705	0.66692			N/A
11/2/2018	NZDUSD	1:30:00 PM	0.66813	0.66799			N/A
11/2/2018	NZDUSD	3:30:00 PM	0.66569	0.66557			N/A
11/2/2018	NZDZAR	9:30:00 AM	9.5601	9.5676			N/A
11/2/2018	NZDZAR	11:30:00 AM	9.526	9.54			N/A
11/2/2018	NZDZAR	1:30:00 PM	9.5536	9.5663			N/A
11/2/2018	NZDZAR	3:30:00 PM	9.5246	9.5355			N/A
11/2/2018	SEKJPY	9:30:00 AM	12.55	12.56			N/A
11/2/2018	SEKJPY	11:30:00 AM					N/A
11/2/2018	SEKJPY	1:30:00 PM	12.55	12.56			N/A
11/2/2018	SEKJPY	3:30:00 PM	12.49	12.51			N/A
11/2/2018	SGDJPY	9:30:00 AM	82.23	82.26			N/A
11/2/2018	SGDJPY	11:30:00 AM	82.12	82.14			N/A
11/2/2018	SGDJPY	1:30:00 PM	82.32	82.35			N/A
11/2/2018	SGDJPY	3:30:00 PM	82.17	82.17			N/A
11/2/2018	SILVER	9:30:00 AM	14.56	14.92			N/A
11/2/2018	SILVER	11:30:00 AM	14.59	14.96			N/A
11/2/2018	SILVER	1:30:00 PM	14.6	14.96			N/A
11/2/2018	SILVER	3:30:00 PM	14.62	14.99			N/A
11/2/2018	USDCAD	9:30:00 AM	1.30579	1.30548			N/A
11/2/2018	USDCAD	11:30:00 AM	1.3053	1.30538			N/A
11/2/2018	USDCAD	1:30:00 PM	1.3059	1.30557			N/A
11/2/2018	USDCAD	3:30:00 PM	1.3107	1.31056			N/A
11/2/2018	USDCHF	9:30:00 AM	1.00088	1.00088			N/A
11/2/2018	USDCHF	11:30:00 AM	0.99943	0.99945			N/A
11/2/2018	USDCHF	1:30:00 PM	0.99746	0.9975			N/A
11/2/2018	USDCHF	3:30:00 PM	1.00108	1.001			N/A
11/2/2018	USDCZK	9:30:00 AM	22.58	22.6			N/A
11/2/2018	USDCZK	11:30:00 AM	22.565	22.588			N/A
11/2/2018	USDCZK	1:30:00 PM	22.516	22.539			N/A

11/2/2018	USDCZK	3:30:00 PM	22.586	22.607			N/A
11/2/2018	USDDKK	9:30:00 AM	6.5257	6.5298			N/A
11/2/2018	USDDKK	11:30:00 AM	6.5249	6.5297			N/A
11/2/2018	USDDKK	1:30:00 PM	6.5168	6.5221			N/A
11/2/2018	USDDKK	3:30:00 PM	6.5396	6.5444			N/A
11/2/2018	USDHKD	9:30:00 AM	7.8368	7.8372			N/A
11/2/2018	USDHKD	11:30:00 AM					N/A
11/2/2018	USDHKD	1:30:00 PM	7.8244	7.8228			N/A
11/2/2018	USDHKD	3:30:00 PM	7.8304	7.8307			N/A
11/2/2018	USDHUF	9:30:00 AM	281.69	282.09			N/A
11/2/2018	USDHUF	11:30:00 AM	281.51	281.93			N/A
11/2/2018	USDHUF	1:30:00 PM	280.82	281.25			N/A
11/2/2018	USDHUF	3:30:00 PM	281.66	282.11			N/A
11/2/2018	USDJPY	9:30:00 AM	112.979	112.971			N/A
11/2/2018	USDJPY	11:30:00 AM	112.79	112.778			N/A
11/2/2018	USDJPY	1:30:00 PM	112.903	112.887			N/A
11/2/2018	USDJPY	3:30:00 PM	112.941	112.901			N/A
11/2/2018	USDMXN	9:30:00 AM	20.069	20.064			N/A
11/2/2018	USDMXN	11:30:00 AM	19.947	19.95			N/A
11/2/2018	USDMXN	1:30:00 PM	19.933	19.906			N/A
11/2/2018	USDMXN	3:30:00 PM	20	20.005			N/A
11/2/2018	USDNOK	9:30:00 AM	8.3179	8.3182			N/A
11/2/2018	USDNOK	11:30:00 AM	8.3156	8.324			N/A
11/2/2018	USDNOK	1:30:00 PM	8.308	8.3172			N/A
11/2/2018	USDNOK	3:30:00 PM	8.3355	8.3433			N/A
11/2/2018	USDPLN	9:30:00 AM	3.7751	3.7741			N/A
11/2/2018	USDPLN	11:30:00 AM	3.7773	3.7783			N/A
11/2/2018	USDPLN	1:30:00 PM	3.7742	3.7757			N/A
11/2/2018	USDPLN	3:30:00 PM	3.7865	3.7875			N/A
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11/2/2018	USDRUR	11:30:00 AM	65.51	65.865			N/A
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11/2/2018	USDRUR	3:30:00 PM	65.911	66.276			N/A
11/2/2018	USDSEK	9:30:00 AM	9.0027	9.0054			N/A
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11/2/2018	USDSEK	1:30:00 PM	8.9956	8.9997			N/A
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11/2/2018	USDSGD	9:30:00 AM	1.3731	1.3734			N/A
11/2/2018	USDSGD	11:30:00 AM	1.3729	1.373			N/A
11/2/2018	USDSGD	1:30:00 PM	1.3707	1.3708			N/A
11/2/2018	USDSGD	3:30:00 PM	1.3737	1.374			N/A
11/2/2018	USDZAR	9:30:00 AM	14.3414	14.3405			N/A
11/2/2018	USDZAR	11:30:00 AM	14.2921	14.3055			N/A
11/2/2018	USDZAR	1:30:00 PM	14.3147	14.3233			N/A
11/2/2018	USDZAR	3:30:00 PM	14.3225	14.3308			N/A
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11/2/2018	XAUUSD	11:30:00 AM	1234.96	1235.08			N/A
11/2/2018	XAUUSD	1:30:00 PM	1234.99	1234.66			N/A
11/2/2018	XAUUSD	3:30:00 PM	1233.52	1233.03			N/A
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11/5/2018	#S	11:30:00 AM					N/A
11/5/2018	#S	1:30:00 PM					N/A
11/5/2018	#S	3:30:00 PM					N/A
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11/5/2018	#SBUX	1:30:00 PM					N/A
11/5/2018	#SBUX	3:30:00 PM					N/A
11/5/2018	#SNE	9:30:00 AM					N/A
11/5/2018	#SNE	11:30:00 AM					N/A
11/5/2018	#SNE	1:30:00 PM					N/A
11/5/2018	#SNE	3:30:00 PM					N/A
11/5/2018	#SPY	9:30:00 AM					N/A
11/5/2018	#SPY	11:30:00 AM					N/A
11/5/2018	#SPY	1:30:00 PM					N/A
11/5/2018	#SPY	3:30:00 PM					N/A
11/5/2018	#T	9:30:00 AM					N/A
11/5/2018	#T	11:30:00 AM					N/A
11/5/2018	#T	1:30:00 PM					N/A
11/5/2018	#T	3:30:00 PM					N/A
11/5/2018	#TEVA	9:30:00 AM					N/A
11/5/2018	#TEVA	11:30:00 AM					N/A
11/5/2018	#TEVA	1:30:00 PM					N/A
11/5/2018	#TEVA	3:30:00 PM					N/A
11/5/2018	#TRI	9:30:00 AM					N/A
11/5/2018	#TRI	11:30:00 AM					N/A
11/5/2018	#TRI	1:30:00 PM					N/A

11/5/2018	#TRI	3:30:00 PM					N/A
11/5/2018	#TRV	9:30:00 AM					N/A
11/5/2018	#TRV	11:30:00 AM					N/A
11/5/2018	#TRV	1:30:00 PM					N/A
11/5/2018	#TRV	3:30:00 PM					N/A
11/5/2018	#TSCO	9:30:00 AM					N/A
11/5/2018	#TSCO	11:30:00 AM					N/A
11/5/2018	#TSCO	1:30:00 PM					N/A
11/5/2018	#TSCO	3:30:00 PM					N/A
11/5/2018	#TSLA	9:30:00 AM					N/A
11/5/2018	#TSLA	11:30:00 AM					N/A
11/5/2018	#TSLA	1:30:00 PM					N/A
11/5/2018	#TSLA	3:30:00 PM					N/A
11/5/2018	#TWTR	9:30:00 AM					N/A
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11/5/2018	#TWTR	3:30:00 PM					N/A
11/5/2018	#UBS	9:30:00 AM					N/A
11/5/2018	#UBS	11:30:00 AM					N/A
11/5/2018	#UBS	1:30:00 PM					N/A
11/5/2018	#UBS	3:30:00 PM					N/A
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11/5/2018	#UL	11:30:00 AM					N/A
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11/5/2018	#UL	3:30:00 PM					N/A
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11/5/2018	#UPS	1:30:00 PM					N/A
11/5/2018	#UPS	3:30:00 PM					N/A
11/5/2018	#UTX	9:30:00 AM					N/A
11/5/2018	#UTX	11:30:00 AM					N/A
11/5/2018	#UTX	1:30:00 PM					N/A
11/5/2018	#UTX	3:30:00 PM					N/A
11/5/2018	#V	9:30:00 AM					N/A
11/5/2018	#V	11:30:00 AM					N/A
11/5/2018	#V	1:30:00 PM					N/A
11/5/2018	#V	3:30:00 PM					N/A
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11/5/2018	#VOD	3:30:00 PM					N/A
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11/5/2018	#VZ	1:30:00 PM					N/A
11/5/2018	#VZ	3:30:00 PM					N/A
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11/5/2018	#WDC	1:30:00 PM					N/A
11/5/2018	#WDC	3:30:00 PM					N/A
11/5/2018	#WFC	9:30:00 AM					N/A

11/5/2018	#WFC	11:30:00 AM					N/A
11/5/2018	#WFC	1:30:00 PM					N/A
11/5/2018	#WFC	3:30:00 PM					N/A
11/5/2018	#WMT	9:30:00 AM					N/A
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11/5/2018	#WMT	1:30:00 PM					N/A
11/5/2018	#WMT	3:30:00 PM					N/A
11/5/2018	#XOM	9:30:00 AM					N/A
11/5/2018	#XOM	11:30:00 AM					N/A
11/5/2018	#XOM	1:30:00 PM					N/A
11/5/2018	#XOM	3:30:00 PM					N/A
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11/5/2018	#YHOO	11:30:00 AM					N/A
11/5/2018	#YHOO	1:30:00 PM					N/A
11/5/2018	#YHOO	3:30:00 PM					N/A
11/5/2018	#ZNGA	9:30:00 AM					N/A
11/5/2018	#ZNGA	11:30:00 AM					N/A
11/5/2018	#ZNGA	1:30:00 PM					N/A
11/5/2018	#ZNGA	3:30:00 PM					N/A
11/5/2018	AUDCAD	9:30:00 AM	0.94279	0.94348			N/A
11/5/2018	AUDCAD	11:30:00 AM	0.94315	0.9437			N/A
11/5/2018	AUDCAD	1:30:00 PM	0.94275	0.94341			N/A
11/5/2018	AUDCAD	3:30:00 PM	0.94184	0.94249			N/A
11/5/2018	AUDCHF	9:30:00 AM	0.72159	0.7222			N/A
11/5/2018	AUDCHF	11:30:00 AM	0.72296	0.72349			N/A
11/5/2018	AUDCHF	1:30:00 PM	0.72329	0.72393			N/A
11/5/2018	AUDCHF	3:30:00 PM	0.72301	0.72364			N/A
11/5/2018	AUDCZK	9:30:00 AM	16.285	16.302			N/A
11/5/2018	AUDCZK	11:30:00 AM	16.326	16.341			N/A
11/5/2018	AUDCZK	1:30:00 PM	16.336	16.353			N/A
11/5/2018	AUDCZK	3:30:00 PM	16.33	16.347			N/A
11/5/2018	AUDDKK	9:30:00 AM	4.7091	4.7136			N/A
11/5/2018	AUDDKK	11:30:00 AM	4.7163	4.7209			N/A
11/5/2018	AUDDKK	1:30:00 PM	4.7178	4.7222			N/A
11/5/2018	AUDDKK	3:30:00 PM	4.715	4.7196			N/A
11/5/2018	AUDHKD	9:30:00 AM	5.6342	5.6371			N/A
11/5/2018	AUDHKD	11:30:00 AM	5.6354	5.6393			N/A
11/5/2018	AUDHKD	1:30:00 PM	5.6333	5.6371			N/A
11/5/2018	AUDHKD	3:30:00 PM	5.6303	5.6342			N/A
11/5/2018	AUDHUF	9:30:00 AM	203.26	203.44			N/A
11/5/2018	AUDHUF	11:30:00 AM	203.82	204.05			N/A
11/5/2018	AUDHUF	1:30:00 PM	203.89	204.13			N/A
11/5/2018	AUDHUF	3:30:00 PM	203.7	203.92			N/A
11/5/2018	AUDJPY	9:30:00 AM	81.437	81.49			N/A
11/5/2018	AUDJPY	11:30:00 AM	81.477	81.535			N/A
11/5/2018	AUDJPY	1:30:00 PM	81.472	81.537			N/A
11/5/2018	AUDJPY	3:30:00 PM	81.44	81.504			N/A
11/5/2018	AUDMXN	9:30:00 AM	14.4161	14.4182			N/A
11/5/2018	AUDMXN	11:30:00 AM	14.4817	14.4828			N/A
11/5/2018	AUDMXN	1:30:00 PM	14.4806	14.485			N/A

11/5/2018	AUDMXN	3:30:00 PM	14.4586	14.4637			N/A
11/5/2018	AUDNOK	9:30:00 AM	6.0109	6.0167			N/A
11/5/2018	AUDNOK	11:30:00 AM	6.0253	6.0307			N/A
11/5/2018	AUDNOK	1:30:00 PM	6.0228	6.0287			N/A
11/5/2018	AUDNOK	3:30:00 PM	6.0185	6.0244			N/A
11/5/2018	AUDNZD	9:30:00 AM	1.08135	1.08197			N/A
11/5/2018	AUDNZD	11:30:00 AM	1.08089	1.08159			N/A
11/5/2018	AUDNZD	1:30:00 PM	1.08018	1.08083			N/A
11/5/2018	AUDNZD	3:30:00 PM	1.08024	1.08097			N/A
11/5/2018	AUDPLN	9:30:00 AM	2.721	2.7238			N/A
11/5/2018	AUDPLN	11:30:00 AM	2.7267	2.7293			N/A
11/5/2018	AUDPLN	1:30:00 PM	2.7278	2.731			N/A
11/5/2018	AUDPLN	3:30:00 PM	2.7257	2.7285			N/A
11/5/2018	AUDSEK	9:30:00 AM	6.5128	6.5151			N/A
11/5/2018	AUDSEK	11:30:00 AM	6.5242	6.5274			N/A
11/5/2018	AUDSEK	1:30:00 PM	6.5343	6.5376			N/A
11/5/2018	AUDSEK	3:30:00 PM	6.5287	6.5315			N/A
11/5/2018	AUDSGD	9:30:00 AM	0.9901	0.9905			N/A
11/5/2018	AUDSGD	11:30:00 AM	0.9905	0.9907			N/A
11/5/2018	AUDSGD	1:30:00 PM	0.9906	0.9909			N/A
11/5/2018	AUDSGD	3:30:00 PM	0.9902	0.9905			N/A
11/5/2018	AUDUSD	9:30:00 AM	0.71957	0.71946			N/A
11/5/2018	AUDUSD	11:30:00 AM	0.7199	0.71977			N/A
11/5/2018	AUDUSD	1:30:00 PM	0.71974	0.71968			N/A
11/5/2018	AUDUSD	3:30:00 PM	0.71936	0.71926			N/A
11/5/2018	AUDZAR	9:30:00 AM	10.3124	10.3214			N/A
11/5/2018	AUDZAR	11:30:00 AM	10.3481	10.3491			N/A
11/5/2018	AUDZAR	1:30:00 PM	10.3475	10.3566			N/A
11/5/2018	AUDZAR	3:30:00 PM	10.3174	10.3294			N/A
11/5/2018	CADCHF	9:30:00 AM	0.76508	0.76576			N/A
11/5/2018	CADCHF	11:30:00 AM	0.76622	0.76692			N/A
11/5/2018	CADCHF	1:30:00 PM	0.76694	0.7676			N/A
11/5/2018	CADCHF	3:30:00 PM	0.7674	0.76801			N/A
11/5/2018	CADCZK	9:30:00 AM	17.272	17.288			N/A
11/5/2018	CADCZK	11:30:00 AM	17.309	17.325			N/A
11/5/2018	CADCZK	1:30:00 PM	17.326	17.343			N/A
11/5/2018	CADCZK	3:30:00 PM	17.339	17.354			N/A
11/5/2018	CADDKK	9:30:00 AM					N/A
11/5/2018	CADDKK	11:30:00 AM					N/A
11/5/2018	CADDKK	1:30:00 PM					N/A
11/5/2018	CADDKK	3:30:00 PM	5.007	5.01			N/A
11/5/2018	CADHKD	9:30:00 AM	5.9756	5.9789			N/A
11/5/2018	CADHKD	11:30:00 AM	5.9757	5.9796			N/A
11/5/2018	CADHKD	1:30:00 PM	5.975	5.9788			N/A
11/5/2018	CADHKD	3:30:00 PM	5.9778	5.9813			N/A
11/5/2018	CADHUF	9:30:00 AM	215.61	215.72			N/A
11/5/2018	CADHUF	11:30:00 AM	216.13	216.3			N/A
11/5/2018	CADHUF	1:30:00 PM	216.29	216.47			N/A
11/5/2018	CADHUF	3:30:00 PM	216.3	216.46			N/A
11/5/2018	CADJPY	9:30:00 AM	86.347	86.404			N/A

11/5/2018	CADJPY	11:30:00 AM	86.359	86.424			N/A
11/5/2018	CADJPY	1:30:00 PM	86.391	86.458			N/A
11/5/2018	CADJPY	3:30:00 PM	86.447	86.505			N/A
11/5/2018	CADMXN	9:30:00 AM	15.2912	15.2933			N/A
11/5/2018	CADMXN	11:30:00 AM	15.3564	15.3584			N/A
11/5/2018	CADMXN	1:30:00 PM	15.3583	15.3663			N/A
11/5/2018	CADMXN	3:30:00 PM	15.3507	15.3582			N/A
11/5/2018	CADNOK	9:30:00 AM	6.3762	6.3805			N/A
11/5/2018	CADNOK	11:30:00 AM	6.3894	6.3933			N/A
11/5/2018	CADNOK	1:30:00 PM	6.3892	6.3938			N/A
11/5/2018	CADNOK	3:30:00 PM	6.3906	6.3948			N/A
11/5/2018	CADPLN	9:30:00 AM	2.8855	2.8875			N/A
11/5/2018	CADPLN	11:30:00 AM	2.8899	2.8916			N/A
11/5/2018	CADPLN	1:30:00 PM	2.893	2.8949			N/A
11/5/2018	CADPLN	3:30:00 PM	2.8933	2.8952			N/A
11/5/2018	CADSEK	9:30:00 AM	6.9059	6.9055			N/A
11/5/2018	CADSEK	11:30:00 AM	6.9162	6.9195			N/A
11/5/2018	CADSEK	1:30:00 PM	6.9293	6.9328			N/A
11/5/2018	CADSEK	3:30:00 PM	6.9309	6.933			N/A
11/5/2018	CADSGD	9:30:00 AM	1.0502	1.0505			N/A
11/5/2018	CADSGD	11:30:00 AM	1.0497	1.05			N/A
11/5/2018	CADSGD	1:30:00 PM	1.0505	1.0508			N/A
11/5/2018	CADSGD	3:30:00 PM	1.0512	1.0515			N/A
11/5/2018	CADZAR	9:30:00 AM	10.9303	10.944			N/A
11/5/2018	CADZAR	11:30:00 AM	10.9665	10.9678			N/A
11/5/2018	CADZAR	1:30:00 PM	10.9709	10.9811			N/A
11/5/2018	CADZAR	3:30:00 PM	10.948	10.9613			N/A
11/5/2018	CHFCZK	9:30:00 AM	22.569	22.586			N/A
11/5/2018	CHFCZK	11:30:00 AM	22.584	22.598			N/A
11/5/2018	CHFCZK	1:30:00 PM	22.585	22.602			N/A
11/5/2018	CHFCZK	3:30:00 PM	22.59	22.606			N/A
11/5/2018	CHFDKK	9:30:00 AM					N/A
11/5/2018	CHFDKK	11:30:00 AM	6.523	6.527			N/A
11/5/2018	CHFDKK	1:30:00 PM					N/A
11/5/2018	CHFDKK	3:30:00 PM	6.52	6.524			N/A
11/5/2018	CHFHKD	9:30:00 AM	7.8079	7.8101			N/A
11/5/2018	CHFHKD	11:30:00 AM	7.7961	7.8			N/A
11/5/2018	CHFHKD	1:30:00 PM	7.7883	7.7918			N/A
11/5/2018	CHFHKD	3:30:00 PM	7.7876	7.7912			N/A
11/5/2018	CHFHUF	9:30:00 AM	281.61	281.93			N/A
11/5/2018	CHFHUF	11:30:00 AM	281.9	282.24			N/A
11/5/2018	CHFHUF	1:30:00 PM	281.83	282.21			N/A
11/5/2018	CHFHUF	3:30:00 PM	281.68	282.06			N/A
11/5/2018	CHFJPY	9:30:00 AM	112.828	112.838			N/A
11/5/2018	CHFJPY	11:30:00 AM	112.675	112.71			N/A
11/5/2018	CHFJPY	1:30:00 PM	112.603	112.628			N/A
11/5/2018	CHFJPY	3:30:00 PM	112.619	112.634			N/A
11/5/2018	CHFMXN	9:30:00 AM	19.9767	19.9819			N/A
11/5/2018	CHFMXN	11:30:00 AM	20.0309	20.0317			N/A
11/5/2018	CHFMXN	1:30:00 PM	20.0161	20.0268			N/A

11/5/2018	CHFMXN	3:30:00 PM	19.998	20.0048			N/A
11/5/2018	CHFNOK	9:30:00 AM	8.3292	8.3374			N/A
11/5/2018	CHFNOK	11:30:00 AM	8.3335	8.3409			N/A
11/5/2018	CHFNOK	1:30:00 PM	8.3264	8.3337			N/A
11/5/2018	CHFNOK	3:30:00 PM	8.3242	8.3314			N/A
11/5/2018	CHFPLN	9:30:00 AM	3.7699	3.7729			N/A
11/5/2018	CHFPLN	11:30:00 AM	3.7703	3.7731			N/A
11/5/2018	CHFPLN	1:30:00 PM	3.7702	3.7734			N/A
11/5/2018	CHFPLN	3:30:00 PM	3.769	3.772			N/A
11/5/2018	CHFSEK	9:30:00 AM	9.0249	9.0261			N/A
11/5/2018	CHFSEK	11:30:00 AM	9.0247	9.027			N/A
11/5/2018	CHFSEK	1:30:00 PM	9.0324	9.0361			N/A
11/5/2018	CHFSEK	3:30:00 PM	9.0296	9.0323			N/A
11/5/2018	CHFSGD	9:30:00 AM	1.3719	1.372			N/A
11/5/2018	CHFSGD	11:30:00 AM	1.3696	1.3699			N/A
11/5/2018	CHFSGD	1:30:00 PM	1.369	1.3694			N/A
11/5/2018	CHFSGD	3:30:00 PM	1.3692	1.3696			N/A
11/5/2018	CHFZAR	9:30:00 AM	14.2854	14.2911			N/A
11/5/2018	CHFZAR	11:30:00 AM	14.3105	14.3044			N/A
11/5/2018	CHFZAR	1:30:00 PM	14.3032	14.3079			N/A
11/5/2018	CHFZAR	3:30:00 PM	14.265	14.2758			N/A
11/5/2018	CZKJPY	9:30:00 AM	4.998	5.001			N/A
11/5/2018	CZKJPY	11:30:00 AM					N/A
11/5/2018	CZKJPY	1:30:00 PM					N/A
11/5/2018	CZKJPY	3:30:00 PM					N/A
11/5/2018	DKKJPY	9:30:00 AM					N/A
11/5/2018	DKKJPY	11:30:00 AM					N/A
11/5/2018	DKKJPY	1:30:00 PM					N/A
11/5/2018	DKKJPY	3:30:00 PM					N/A
11/5/2018	EURAUD	9:30:00 AM	1.58317	1.58296			N/A
11/5/2018	EURAUD	11:30:00 AM	1.58081	1.58055			N/A
11/5/2018	EURAUD	1:30:00 PM	1.58025	1.58003			N/A
11/5/2018	EURAUD	3:30:00 PM	1.58113	1.58092			N/A
11/5/2018	EURCAD	9:30:00 AM	1.49332	1.49373			N/A
11/5/2018	EURCAD	11:30:00 AM	1.49149	1.49192			N/A
11/5/2018	EURCAD	1:30:00 PM	1.49037	1.49089			N/A
11/5/2018	EURCAD	3:30:00 PM	1.48978	1.49025			N/A
11/5/2018	EURCHF	9:30:00 AM	1.14303	1.1431			N/A
11/5/2018	EURCHF	11:30:00 AM	1.14343	1.14335			N/A
11/5/2018	EURCHF	1:30:00 PM	1.14356	1.1436			N/A
11/5/2018	EURCHF	3:30:00 PM	1.14349	1.14406			N/A
11/5/2018	EURCZK	9:30:00 AM	25.791	25.83			N/A
11/5/2018	EURCZK	11:30:00 AM	25.814	25.85			N/A
11/5/2018	EURCZK	1:30:00 PM	25.82	25.858			N/A
11/5/2018	EURCZK	3:30:00 PM	25.826	25.865			N/A
11/5/2018	EURDKK	9:30:00 AM	7.4593	7.4603			N/A
11/5/2018	EURDKK	11:30:00 AM	7.4591	7.46			N/A
11/5/2018	EURDKK	1:30:00 PM	7.4591	7.4601			N/A
11/5/2018	EURDKK	3:30:00 PM	7.4586	7.4598			N/A
11/5/2018	EURGBP	9:30:00 AM	0.87543	0.87551			N/A

11/5/2018	EURGBP	11:30:00 AM	0.87713	0.87634			N/A
11/5/2018	EURGBP	1:30:00 PM	0.87429	0.87436			N/A
11/5/2018	EURGBP	3:30:00 PM	0.87534	0.87542			N/A
11/5/2018	EURHKD	9:30:00 AM	8.9229	8.9261			N/A
11/5/2018	EURHKD	11:30:00 AM	8.9129	8.917			N/A
11/5/2018	EURHKD	1:30:00 PM	8.9052	8.9094			N/A
11/5/2018	EURHKD	3:30:00 PM	8.9064	8.9106			N/A
11/5/2018	EURHUF	9:30:00 AM	321.79	322.46			N/A
11/5/2018	EURHUF	11:30:00 AM	322.18	322.87			N/A
11/5/2018	EURHUF	1:30:00 PM	322.18	322.91			N/A
11/5/2018	EURHUF	3:30:00 PM	322.07	322.79			N/A
11/5/2018	EURJPY	9:30:00 AM	129.004	128.965	10	10	N/A
11/5/2018	EURJPY	11:30:00 AM	128.861	128.835			N/A
11/5/2018	EURJPY	1:30:00 PM	128.813	128.802			N/A
11/5/2018	EURJPY	3:30:00 PM	128.841	128.821			N/A
11/5/2018	EURMXN	9:30:00 AM	22.836	22.8428			N/A
11/5/2018	EURMXN	11:30:00 AM	22.9016	22.9042			N/A
11/5/2018	EURMXN	1:30:00 PM	22.891	22.9027			N/A
11/5/2018	EURMXN	3:30:00 PM	22.8688	22.8811			N/A
11/5/2018	EURNOK	9:30:00 AM	9.5193	9.5317			N/A
11/5/2018	EURNOK	11:30:00 AM	9.5262	9.5389			N/A
11/5/2018	EURNOK	1:30:00 PM	9.5202	9.5322			N/A
11/5/2018	EURNOK	3:30:00 PM	9.5191	9.5313			N/A
11/5/2018	EURNZD	9:30:00 AM	1.71249	1.71322			N/A
11/5/2018	EURNZD	11:30:00 AM	1.70926	1.70989			N/A
11/5/2018	EURNZD	1:30:00 PM	1.70746	1.70814			N/A
11/5/2018	EURNZD	3:30:00 PM	1.70861	1.70931			N/A
11/5/2018	EURPLN	9:30:00 AM	4.3094	4.312			N/A
11/5/2018	EURPLN	11:30:00 AM	4.3117	4.3131			N/A
11/5/2018	EURPLN	1:30:00 PM	4.3118	4.3152			N/A
11/5/2018	EURPLN	3:30:00 PM	4.311	4.3137			N/A
11/5/2018	EURRUR	9:30:00 AM					N/A
11/5/2018	EURRUR	11:30:00 AM					N/A
11/5/2018	EURRUR	1:30:00 PM					N/A
11/5/2018	EURRUR	3:30:00 PM					N/A
11/5/2018	EURSEK	9:30:00 AM	10.3146	10.3161			N/A
11/5/2018	EURSEK	11:30:00 AM	10.3161	10.3209			N/A
11/5/2018	EURSEK	1:30:00 PM	10.3288	10.3342			N/A
11/5/2018	EURSEK	3:30:00 PM	10.3276	10.3296			N/A
11/5/2018	EURSGD	9:30:00 AM	1.568	1.5685			N/A
11/5/2018	EURSGD	11:30:00 AM	1.566	1.5665			N/A
11/5/2018	EURSGD	1:30:00 PM	1.5655	1.5664			N/A
11/5/2018	EURSGD	3:30:00 PM	1.5659	1.5667			N/A
11/5/2018	EURUSD	9:30:00 AM	1.13914	1.13895			N/A
11/5/2018	EURUSD	11:30:00 AM	1.13783	1.13772			N/A
11/5/2018	EURUSD	1:30:00 PM	1.13721	1.13723			N/A
11/5/2018	EURUSD	3:30:00 PM	1.13733	1.1372			N/A
11/5/2018	EURZAR	9:30:00 AM	16.3311	16.3405			N/A
11/5/2018	EURZAR	11:30:00 AM	16.3628	16.3579			N/A
11/5/2018	EURZAR	1:30:00 PM	16.3554	16.3664			N/A

11/5/2018	EURZAR	3:30:00 PM	16.3178	16.3344			N/A
11/5/2018	GBPAUD	9:30:00 AM	1.80836	1.80904			N/A
11/5/2018	GBPAUD	11:30:00 AM	1.80376	1.80273			N/A
11/5/2018	GBPAUD	1:30:00 PM	1.8073	1.80796			N/A
11/5/2018	GBPAUD	3:30:00 PM	1.80612	1.80683			N/A
11/5/2018	GBPCAD	9:30:00 AM	1.70549	1.70618			N/A
11/5/2018	GBPCAD	11:30:00 AM	1.70178	1.70051			N/A
11/5/2018	GBPCAD	1:30:00 PM	1.70437	1.70509			N/A
11/5/2018	GBPCAD	3:30:00 PM	1.70162	1.7023			N/A
11/5/2018	GBPCHF	9:30:00 AM	1.30526	1.30601			N/A
11/5/2018	GBPCHF	11:30:00 AM	1.30447	1.30384			N/A
11/5/2018	GBPCHF	1:30:00 PM	1.30763	1.30836			N/A
11/5/2018	GBPCHF	3:30:00 PM	1.30623	1.30694			N/A
11/5/2018	GBPCZK	9:30:00 AM	29.46	29.481			N/A
11/5/2018	GBPCZK	11:30:00 AM	29.46	29.451			N/A
11/5/2018	GBPCZK	1:30:00 PM	29.536	29.556			N/A
11/5/2018	GBPCZK	3:30:00 PM	29.507	29.53			N/A
11/5/2018	GBPDKK	9:30:00 AM	8.517	8.528			N/A
11/5/2018	GBPDKK	11:30:00 AM	8.509	8.512			N/A
11/5/2018	GBPDKK	1:30:00 PM	8.528	8.539			N/A
11/5/2018	GBPDKK	3:30:00 PM	8.517	8.529			N/A
11/5/2018	GBPHKD	9:30:00 AM	10.1907	10.1949			N/A
11/5/2018	GBPHKD	11:30:00 AM	10.1698	10.1646			N/A
11/5/2018	GBPHKD	1:30:00 PM	10.184	10.1891			N/A
11/5/2018	GBPHKD	3:30:00 PM	10.1726	10.1782			N/A
11/5/2018	GBPHUF	9:30:00 AM	367.59	368			N/A
11/5/2018	GBPHUF	11:30:00 AM	367.7	367.81			N/A
11/5/2018	GBPHUF	1:30:00 PM	368.55	369.02			N/A
11/5/2018	GBPHUF	3:30:00 PM	367.96	368.43			N/A
11/5/2018	GBPJPY	9:30:00 AM	147.336	147.343			N/A
11/5/2018	GBPJPY	11:30:00 AM	147.035	146.915			N/A
11/5/2018	GBPJPY	1:30:00 PM	147.318	147.347			N/A
11/5/2018	GBPJPY	3:30:00 PM	147.167	147.19			N/A
11/5/2018	GBPMXN	9:30:00 AM	26.0777	26.0769			N/A
11/5/2018	GBPMXN	11:30:00 AM	26.1298	26.1189			N/A
11/5/2018	GBPMXN	1:30:00 PM	26.1753	26.1855			N/A
11/5/2018	GBPMXN	3:30:00 PM	26.1218	26.128			N/A
11/5/2018	GBPNOK	9:30:00 AM	10.8752	10.8859			N/A
11/5/2018	GBPNOK	11:30:00 AM	10.8727	10.8738			N/A
11/5/2018	GBPNOK	1:30:00 PM	10.8898	10.9012			N/A
11/5/2018	GBPNOK	3:30:00 PM	10.8755	10.8865			N/A
11/5/2018	GBPNZD	9:30:00 AM	1.95621	1.95678			N/A
11/5/2018	GBPNZD	11:30:00 AM	1.95043	1.94938			N/A
11/5/2018	GBPNZD	1:30:00 PM	1.95297	1.95369			N/A
11/5/2018	GBPNZD	3:30:00 PM	1.95187	1.95257			N/A
11/5/2018	GBPPLN	9:30:00 AM	4.9233	4.9247			N/A
11/5/2018	GBPPLN	11:30:00 AM	4.9212	4.9177			N/A
11/5/2018	GBPPLN	1:30:00 PM	4.9326	4.9346			N/A
11/5/2018	GBPPLN	3:30:00 PM	4.9256	4.9275			N/A
11/5/2018	GBPSEK	9:30:00 AM	11.7796	11.7853			N/A

11/5/2018	GBPSEK	11:30:00 AM	11.77	11.7683			N/A
11/5/2018	GBPSEK	1:30:00 PM	11.8119	11.8203			N/A
11/5/2018	GBPSEK	3:30:00 PM	11.7956	11.8016			N/A
11/5/2018	GBPSGD	9:30:00 AM	1.791	1.7915			N/A
11/5/2018	GBPSGD	11:30:00 AM	1.7871	1.7857			N/A
11/5/2018	GBPSGD	1:30:00 PM	1.7905	1.7914			N/A
11/5/2018	GBPSGD	3:30:00 PM	1.7888	1.7896			N/A
11/5/2018	GBPUSD	9:30:00 AM	1.30133	1.30116			N/A
11/5/2018	GBPUSD	11:30:00 AM	1.29859	1.29721	10	20	N/A
11/5/2018	GBPUSD	1:30:00 PM	1.30086	1.30083			N/A
11/5/2018	GBPUSD	3:30:00 PM	1.29932	1.29931			N/A
11/5/2018	GBPZAR	9:30:00 AM	18.6506	18.6684			N/A
11/5/2018	GBPZAR	11:30:00 AM	18.6683	18.6699			N/A
11/5/2018	GBPZAR	1:30:00 PM	18.7014	18.7237			N/A
11/5/2018	GBPZAR	3:30:00 PM	18.637	18.6642			N/A
11/5/2018	GOLD	9:30:00 AM	1232.08	1232.28			N/A
11/5/2018	GOLD	11:30:00 AM	1231.53	1231.55			N/A
11/5/2018	GOLD	1:30:00 PM	1231.75	1232.02			N/A
11/5/2018	GOLD	3:30:00 PM	1227.57	1227.25			N/A
11/5/2018	HKDJPY	9:30:00 AM					N/A
11/5/2018	HKDJPY	11:30:00 AM					N/A
11/5/2018	HKDJPY	1:30:00 PM					N/A
11/5/2018	HKDJPY	3:30:00 PM					N/A
11/5/2018	HUFJPY	9:30:00 AM	0.4008	0.4011			N/A
11/5/2018	HUFJPY	11:30:00 AM	0.3997	0.4001			N/A
11/5/2018	HUFJPY	1:30:00 PM	0.3997	0.4			N/A
11/5/2018	HUFJPY	3:30:00 PM					N/A
11/5/2018	MXNJPY	9:30:00 AM					N/A
11/5/2018	MXNJPY	11:30:00 AM	5.63	5.65			N/A
11/5/2018	MXNJPY	1:30:00 PM					N/A
11/5/2018	MXNJPY	3:30:00 PM					N/A
11/5/2018	NOKJPY	9:30:00 AM					N/A
11/5/2018	NOKJPY	11:30:00 AM					N/A
11/5/2018	NOKJPY	1:30:00 PM					N/A
11/5/2018	NOKJPY	3:30:00 PM					N/A
11/5/2018	NZDCAD	9:30:00 AM	0.87153	0.8722			N/A
11/5/2018	NZDCAD	11:30:00 AM	0.87219	0.8727			N/A
11/5/2018	NZDCAD	1:30:00 PM	0.87243	0.87306			N/A
11/5/2018	NZDCAD	3:30:00 PM	0.87147	0.87213			N/A
11/5/2018	NZDCHF	9:30:00 AM	0.667	0.66763			N/A
11/5/2018	NZDCHF	11:30:00 AM	0.66851	0.66908			N/A
11/5/2018	NZDCHF	1:30:00 PM	0.66931	0.66995			N/A
11/5/2018	NZDCHF	3:30:00 PM	0.66898	0.6696			N/A
11/5/2018	NZDCZK	9:30:00 AM	15.056	15.068			N/A
11/5/2018	NZDCZK	11:30:00 AM	15.1	15.109			N/A
11/5/2018	NZDCZK	1:30:00 PM	15.119	15.131			N/A
11/5/2018	NZDCZK	3:30:00 PM	15.113	15.125			N/A
11/5/2018	NZDDKK	9:30:00 AM	4.353	4.357			N/A
11/5/2018	NZDDKK	11:30:00 AM					N/A
11/5/2018	NZDDKK	1:30:00 PM	4.366	4.37			N/A

11/5/2018	NZDDKK	3:30:00 PM					N/A
11/5/2018	NZDHKD	9:30:00 AM	5.2079	5.2108			N/A
11/5/2018	NZDHKD	11:30:00 AM	5.2116	5.2144			N/A
11/5/2018	NZDHKD	1:30:00 PM	5.2124	5.2153			N/A
11/5/2018	NZDHKD	3:30:00 PM	5.2097	5.212			N/A
11/5/2018	NZDHUF	9:30:00 AM	187.86	188.09			N/A
11/5/2018	NZDHUF	11:30:00 AM	188.46	188.72			N/A
11/5/2018	NZDHUF	1:30:00 PM	188.64	188.93			N/A
11/5/2018	NZDHUF	3:30:00 PM	188.44	188.72			N/A
11/5/2018	NZDJPY	9:30:00 AM	75.274	75.337			N/A
11/5/2018	NZDJPY	11:30:00 AM	75.343	75.408			N/A
11/5/2018	NZDJPY	1:30:00 PM	75.397	75.458			N/A
11/5/2018	NZDJPY	3:30:00 PM	75.356	75.421			N/A
11/5/2018	NZDMXN	9:30:00 AM	13.3279	13.3257			N/A
11/5/2018	NZDMXN	11:30:00 AM	13.3936	13.3916			N/A
11/5/2018	NZDMXN	1:30:00 PM	13.3997	13.4029			N/A
11/5/2018	NZDMXN	3:30:00 PM	13.38	13.3809			N/A
11/5/2018	NZDNOK	9:30:00 AM	5.5572	5.5601			N/A
11/5/2018	NZDNOK	11:30:00 AM	5.5724	5.5763			N/A
11/5/2018	NZDNOK	1:30:00 PM	5.5736	5.5771			N/A
11/5/2018	NZDNOK	3:30:00 PM	5.569	5.5729			N/A
11/5/2018	NZDPLN	9:30:00 AM	2.5147	2.5161			N/A
11/5/2018	NZDPLN	11:30:00 AM	2.5209	2.5219			N/A
11/5/2018	NZDPLN	1:30:00 PM	2.5235	2.5248			N/A
11/5/2018	NZDPLN	3:30:00 PM	2.5216	2.5226			N/A
11/5/2018	NZDSEK	9:30:00 AM	6.0166	6.02			N/A
11/5/2018	NZDSEK	11:30:00 AM	6.0298	6.0363			N/A
11/5/2018	NZDSEK	1:30:00 PM	6.0438	6.0495			N/A
11/5/2018	NZDSEK	3:30:00 PM	6.0379	6.0441			N/A
11/5/2018	NZDSGD	9:30:00 AM	0.9153	0.916			N/A
11/5/2018	NZDSGD	11:30:00 AM	0.916	0.9165			N/A
11/5/2018	NZDSGD	1:30:00 PM	0.9166	0.917			N/A
11/5/2018	NZDSGD	3:30:00 PM	0.9163	0.917			N/A
11/5/2018	NZDUSD	9:30:00 AM	0.66498	0.6649			N/A
11/5/2018	NZDUSD	11:30:00 AM	0.66555	0.66539			N/A
11/5/2018	NZDUSD	1:30:00 PM	0.6659	0.66578			N/A
11/5/2018	NZDUSD	3:30:00 PM	0.66549	0.66539			N/A
11/5/2018	NZDZAR	9:30:00 AM	9.5248	9.5367			N/A
11/5/2018	NZDZAR	11:30:00 AM	9.5618	9.5675			N/A
11/5/2018	NZDZAR	1:30:00 PM	9.5692	9.5813			N/A
11/5/2018	NZDZAR	3:30:00 PM	9.5402	9.5533			N/A
11/5/2018	SEKJPY	9:30:00 AM	12.5	12.52			N/A
11/5/2018	SEKJPY	11:30:00 AM					N/A
11/5/2018	SEKJPY	1:30:00 PM					N/A
11/5/2018	SEKJPY	3:30:00 PM	12.47	12.49			N/A
11/5/2018	SGDJPY	9:30:00 AM	82.23	82.25			N/A
11/5/2018	SGDJPY	11:30:00 AM	82.24	82.27			N/A
11/5/2018	SGDJPY	1:30:00 PM	82.23	82.26			N/A
11/5/2018	SGDJPY	3:30:00 PM	82.23	82.26			N/A
11/5/2018	SILVER	9:30:00 AM	14.5	14.89			N/A

11/5/2018	SILVER	11:30:00 AM	14.53	14.89			N/A
11/5/2018	SILVER	1:30:00 PM	14.54	14.91			N/A
11/5/2018	SILVER	3:30:00 PM	14.43	14.78			N/A
11/5/2018	USDCAD	9:30:00 AM	1.31094	1.31092			N/A
11/5/2018	USDCAD	11:30:00 AM	1.31083	1.31085			N/A
11/5/2018	USDCAD	1:30:00 PM	1.31051	1.3105			N/A
11/5/2018	USDCAD	3:30:00 PM	1.30996	1.30989			N/A
11/5/2018	USDCHF	9:30:00 AM	1.00347	1.00334			N/A
11/5/2018	USDCHF	11:30:00 AM	1.0048	1.00484			N/A
11/5/2018	USDCHF	1:30:00 PM	1.0055	1.00556			N/A
11/5/2018	USDCHF	3:30:00 PM	1.00527	1.00592			N/A
11/5/2018	USDCZK	9:30:00 AM	22.643	22.661			N/A
11/5/2018	USDCZK	11:30:00 AM	22.687	22.709			N/A
11/5/2018	USDCZK	1:30:00 PM	22.704	22.727			N/A
11/5/2018	USDCZK	3:30:00 PM	22.712	22.734			N/A
11/5/2018	USDDKK	9:30:00 AM	6.5495	6.5535			N/A
11/5/2018	USDDKK	11:30:00 AM	6.5566	6.5611			N/A
11/5/2018	USDDKK	1:30:00 PM	6.5592	6.5641			N/A
11/5/2018	USDDKK	3:30:00 PM	6.5593	6.564			N/A
11/5/2018	USDHKD	9:30:00 AM					N/A
11/5/2018	USDHKD	11:30:00 AM	7.8347	7.8349			N/A
11/5/2018	USDHKD	1:30:00 PM	7.8314	7.8318			N/A
11/5/2018	USDHKD	3:30:00 PM	7.8324	7.8328			N/A
11/5/2018	USDHUF	9:30:00 AM	282.61	282.96			N/A
11/5/2018	USDHUF	11:30:00 AM	283.24	283.65			N/A
11/5/2018	USDHUF	1:30:00 PM	283.36	283.83			N/A
11/5/2018	USDHUF	3:30:00 PM	283.27	283.7			N/A
11/5/2018	USDJPY	9:30:00 AM	113.242	113.234			N/A
11/5/2018	USDJPY	11:30:00 AM	113.258	113.25			N/A
11/5/2018	USDJPY	1:30:00 PM	113.265	113.265			N/A
11/5/2018	USDJPY	3:30:00 PM	113.295	113.273			N/A
11/5/2018	USDMXN	9:30:00 AM	20.051	20.044			N/A
11/5/2018	USDMXN	11:30:00 AM	20.131	20.123			N/A
11/5/2018	USDMXN	1:30:00 PM	20.129	20.132			N/A
11/5/2018	USDMXN	3:30:00 PM	20.114	20.111			N/A
11/5/2018	USDNOK	9:30:00 AM	8.3593	8.3666			N/A
11/5/2018	USDNOK	11:30:00 AM	8.3743	8.3826			N/A
11/5/2018	USDNOK	1:30:00 PM	8.3728	8.381			N/A
11/5/2018	USDNOK	3:30:00 PM	8.3715	8.3793			N/A
11/5/2018	USDPLN	9:30:00 AM	3.7838	3.7843			N/A
11/5/2018	USDPLN	11:30:00 AM	3.7896	3.7905			N/A
11/5/2018	USDPLN	1:30:00 PM	3.792	3.7932			N/A
11/5/2018	USDPLN	3:30:00 PM	3.7912	3.7922			N/A
11/5/2018	USDRUR	9:30:00 AM					N/A
11/5/2018	USDRUR	11:30:00 AM	65.997	66.395			N/A
11/5/2018	USDRUR	1:30:00 PM	66.159	66.534			N/A
11/5/2018	USDRUR	3:30:00 PM	66.042	66.418			N/A
11/5/2018	USDSEK	9:30:00 AM	9.0535	9.054			N/A
11/5/2018	USDSEK	11:30:00 AM	9.0647	9.0683			N/A
11/5/2018	USDSEK	1:30:00 PM	9.08	9.084			N/A

11/5/2018	USDSEK	3:30:00 PM	9.0776	9.0806			N/A
11/5/2018	USDSGD	9:30:00 AM	1.3764	1.3767			N/A
11/5/2018	USDSGD	11:30:00 AM	1.3762	1.3765			N/A
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11/5/2018	XAUUSD	1:30:00 PM	1231.75	1232.02			N/A
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11/6/2018	#SPY	3:30:00 PM					N/A
11/6/2018	#T	9:30:00 AM					N/A
11/6/2018	#T	11:30:00 AM					N/A
11/6/2018	#T	1:30:00 PM					N/A
11/6/2018	#T	3:30:00 PM					N/A
11/6/2018	#TEVA	9:30:00 AM					N/A
11/6/2018	#TEVA	11:30:00 AM					N/A
11/6/2018	#TEVA	1:30:00 PM					N/A
11/6/2018	#TEVA	3:30:00 PM					N/A
11/6/2018	#TRI	9:30:00 AM					N/A
11/6/2018	#TRI	11:30:00 AM					N/A
11/6/2018	#TRI	1:30:00 PM					N/A
11/6/2018	#TRI	3:30:00 PM					N/A
11/6/2018	#TRV	9:30:00 AM					N/A
11/6/2018	#TRV	11:30:00 AM					N/A
11/6/2018	#TRV	1:30:00 PM					N/A
11/6/2018	#TRV	3:30:00 PM					N/A
11/6/2018	#TSCO	9:30:00 AM					N/A
11/6/2018	#TSCO	11:30:00 AM					N/A
11/6/2018	#TSCO	1:30:00 PM					N/A
11/6/2018	#TSCO	3:30:00 PM					N/A
11/6/2018	#TSLA	9:30:00 AM					N/A
11/6/2018	#TSLA	11:30:00 AM					N/A
11/6/2018	#TSLA	1:30:00 PM					N/A
11/6/2018	#TSLA	3:30:00 PM					N/A
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11/6/2018	#TWTR	11:30:00 AM					N/A
11/6/2018	#TWTR	1:30:00 PM					N/A
11/6/2018	#TWTR	3:30:00 PM					N/A
11/6/2018	#UBS	9:30:00 AM					N/A
11/6/2018	#UBS	11:30:00 AM					N/A
11/6/2018	#UBS	1:30:00 PM					N/A
11/6/2018	#UBS	3:30:00 PM					N/A
11/6/2018	#UL	9:30:00 AM					N/A
11/6/2018	#UL	11:30:00 AM					N/A
11/6/2018	#UL	1:30:00 PM					N/A
11/6/2018	#UL	3:30:00 PM					N/A
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11/6/2018	#UPS	11:30:00 AM					N/A
11/6/2018	#UPS	1:30:00 PM					N/A
11/6/2018	#UPS	3:30:00 PM					N/A
11/6/2018	#UTX	9:30:00 AM					N/A
11/6/2018	#UTX	11:30:00 AM					N/A
11/6/2018	#UTX	1:30:00 PM					N/A
11/6/2018	#UTX	3:30:00 PM					N/A
11/6/2018	#V	9:30:00 AM					N/A
11/6/2018	#V	11:30:00 AM					N/A
11/6/2018	#V	1:30:00 PM					N/A

11/6/2018	#V	3:30:00 PM					N/A
11/6/2018	#VOD	9:30:00 AM					N/A
11/6/2018	#VOD	11:30:00 AM					N/A
11/6/2018	#VOD	1:30:00 PM					N/A
11/6/2018	#VOD	3:30:00 PM					N/A
11/6/2018	#VZ	9:30:00 AM					N/A
11/6/2018	#VZ	11:30:00 AM					N/A
11/6/2018	#VZ	1:30:00 PM					N/A
11/6/2018	#VZ	3:30:00 PM					N/A
11/6/2018	#WDC	9:30:00 AM					N/A
11/6/2018	#WDC	11:30:00 AM					N/A
11/6/2018	#WDC	1:30:00 PM					N/A
11/6/2018	#WDC	3:30:00 PM					N/A
11/6/2018	#WFC	9:30:00 AM					N/A
11/6/2018	#WFC	11:30:00 AM					N/A
11/6/2018	#WFC	1:30:00 PM					N/A
11/6/2018	#WFC	3:30:00 PM					N/A
11/6/2018	#WMT	9:30:00 AM					N/A
11/6/2018	#WMT	11:30:00 AM					N/A
11/6/2018	#WMT	1:30:00 PM					N/A
11/6/2018	#WMT	3:30:00 PM					N/A
11/6/2018	#XOM	9:30:00 AM					N/A
11/6/2018	#XOM	11:30:00 AM					N/A
11/6/2018	#XOM	1:30:00 PM					N/A
11/6/2018	#XOM	3:30:00 PM					N/A
11/6/2018	#YHOO	9:30:00 AM					N/A
11/6/2018	#YHOO	11:30:00 AM					N/A
11/6/2018	#YHOO	1:30:00 PM					N/A
11/6/2018	#YHOO	3:30:00 PM					N/A
11/6/2018	#ZNGA	9:30:00 AM					N/A
11/6/2018	#ZNGA	11:30:00 AM					N/A
11/6/2018	#ZNGA	1:30:00 PM					N/A
11/6/2018	#ZNGA	3:30:00 PM					N/A
11/6/2018	AUDCAD	9:30:00 AM	0.94658	0.94722			N/A
11/6/2018	AUDCAD	11:30:00 AM	0.94852	0.94918			N/A
11/6/2018	AUDCAD	1:30:00 PM	0.94833	0.9489			N/A
11/6/2018	AUDCAD	3:30:00 PM	0.94886	0.94935			N/A
11/6/2018	AUDCHF	9:30:00 AM	0.72458	0.72527			N/A
11/6/2018	AUDCHF	11:30:00 AM	0.72632	0.72699			N/A
11/6/2018	AUDCHF	1:30:00 PM	0.72588	0.72655			N/A
11/6/2018	AUDCHF	3:30:00 PM	0.72501	0.72559			N/A
11/6/2018	AUDCZK	9:30:00 AM	16.307	16.325			N/A
11/6/2018	AUDCZK	11:30:00 AM	16.359	16.368			N/A
11/6/2018	AUDCZK	1:30:00 PM	16.376	16.394			N/A
11/6/2018	AUDCZK	3:30:00 PM	16.339	16.355			N/A
11/6/2018	AUDDKK	9:30:00 AM	4.7167	4.7212			N/A
11/6/2018	AUDDKK	11:30:00 AM	4.7249	4.7294			N/A
11/6/2018	AUDDKK	1:30:00 PM	4.7298	4.7341			N/A
11/6/2018	AUDDKK	3:30:00 PM	4.719	4.7231			N/A
11/6/2018	AUDHKD	9:30:00 AM	5.6549	5.6585			N/A

11/6/2018	AUDHKD	11:30:00 AM	5.6646	5.668			N/A
11/6/2018	AUDHKD	1:30:00 PM	5.6579	5.6609			N/A
11/6/2018	AUDHKD	3:30:00 PM	5.6636	5.6657			N/A
11/6/2018	AUDHUF	9:30:00 AM	203.44	203.65			N/A
11/6/2018	AUDHUF	11:30:00 AM	203.81	204.04			N/A
11/6/2018	AUDHUF	1:30:00 PM	204.01	204.26			N/A
11/6/2018	AUDHUF	3:30:00 PM	203.66	203.87			N/A
11/6/2018	AUDJPY	9:30:00 AM	81.835	81.896			N/A
11/6/2018	AUDJPY	11:30:00 AM	81.866	81.93			N/A
11/6/2018	AUDJPY	1:30:00 PM	81.761	81.825			N/A
11/6/2018	AUDJPY	3:30:00 PM	81.812	81.86			N/A
11/6/2018	AUDMXN	9:30:00 AM	14.3465	14.3556			N/A
11/6/2018	AUDMXN	11:30:00 AM	14.3964	14.3992			N/A
11/6/2018	AUDMXN	1:30:00 PM	14.4073	14.4174			N/A
11/6/2018	AUDMXN	3:30:00 PM	14.3997	14.404			N/A
11/6/2018	AUDNOK	9:30:00 AM	6.0249	6.0303			N/A
11/6/2018	AUDNOK	11:30:00 AM	6.0402	6.0461			N/A
11/6/2018	AUDNOK	1:30:00 PM	6.0456	6.0509			N/A
11/6/2018	AUDNOK	3:30:00 PM	6.0402	6.0453			N/A
11/6/2018	AUDNZD	9:30:00 AM	1.08364	1.08426			N/A
11/6/2018	AUDNZD	11:30:00 AM	1.08378	1.08449			N/A
11/6/2018	AUDNZD	1:30:00 PM	1.08313	1.08385			N/A
11/6/2018	AUDNZD	3:30:00 PM	1.08253	1.08319			N/A
11/6/2018	AUDPLN	9:30:00 AM	2.7236	2.7267			N/A
11/6/2018	AUDPLN	11:30:00 AM	2.7291	2.7316			N/A
11/6/2018	AUDPLN	1:30:00 PM	2.7328	2.7352			N/A
11/6/2018	AUDPLN	3:30:00 PM	2.726	2.7289			N/A
11/6/2018	AUDSEK	9:30:00 AM	6.5321	6.5332			N/A
11/6/2018	AUDSEK	11:30:00 AM	6.5485	6.5519			N/A
11/6/2018	AUDSEK	1:30:00 PM	6.5568	6.5592			N/A
11/6/2018	AUDSEK	3:30:00 PM	6.5486	6.5508			N/A
11/6/2018	AUDSGD	9:30:00 AM	0.9925	0.9928			N/A
11/6/2018	AUDSGD	11:30:00 AM	0.994	0.9943			N/A
11/6/2018	AUDSGD	1:30:00 PM	0.9938	0.9941			N/A
11/6/2018	AUDSGD	3:30:00 PM	0.9932	0.9934			N/A
11/6/2018	AUDUSD	9:30:00 AM	0.72214	0.72211			N/A
11/6/2018	AUDUSD	11:30:00 AM	0.72364	0.72362			N/A
11/6/2018	AUDUSD	1:30:00 PM	0.7229	0.72281			N/A
11/6/2018	AUDUSD	3:30:00 PM	0.72358	0.72328			N/A
11/6/2018	AUDZAR	9:30:00 AM	10.2439	10.2564			N/A
11/6/2018	AUDZAR	11:30:00 AM	10.2974	10.306			N/A
11/6/2018	AUDZAR	1:30:00 PM	10.2879	10.2989			N/A
11/6/2018	AUDZAR	3:30:00 PM	10.268	10.2749			N/A
11/6/2018	CADCHF	9:30:00 AM	0.76523	0.76596			N/A
11/6/2018	CADCHF	11:30:00 AM	0.76547	0.76617			N/A
11/6/2018	CADCHF	1:30:00 PM	0.76518	0.76591			N/A
11/6/2018	CADCHF	3:30:00 PM	0.76383	0.76452			N/A
11/6/2018	CADCZK	9:30:00 AM	17.226	17.243			N/A
11/6/2018	CADCZK	11:30:00 AM	17.245	17.254			N/A
11/6/2018	CADCZK	1:30:00 PM					N/A

11/6/2018	CADCZK	3:30:00 PM	17.221	17.237			N/A
11/6/2018	CADDDK	9:30:00 AM	4.983	4.987			N/A
11/6/2018	CADDDK	11:30:00 AM					N/A
11/6/2018	CADDDK	1:30:00 PM					N/A
11/6/2018	CADDDK	3:30:00 PM					N/A
11/6/2018	CADHKD	9:30:00 AM	5.9732	5.9771			N/A
11/6/2018	CADHKD	11:30:00 AM	5.9713	5.975			N/A
11/6/2018	CADHKD	1:30:00 PM	5.9662	5.97			N/A
11/6/2018	CADHKD	3:30:00 PM	5.9691	5.9723			N/A
11/6/2018	CADHUF	9:30:00 AM	214.93	215.09			N/A
11/6/2018	CADHUF	11:30:00 AM	214.88	215.06			N/A
11/6/2018	CADHUF	1:30:00 PM	215.15	215.32			N/A
11/6/2018	CADHUF	3:30:00 PM	214.68	214.83			N/A
11/6/2018	CADJPY	9:30:00 AM	86.422	86.489			N/A
11/6/2018	CADJPY	11:30:00 AM	86.283	86.349			N/A
11/6/2018	CADJPY	1:30:00 PM	86.192	86.254			N/A
11/6/2018	CADJPY	3:30:00 PM	86.192	86.257			N/A
11/6/2018	CADMXN	9:30:00 AM	15.1572	15.1672			N/A
11/6/2018	CADMXN	11:30:00 AM	15.1789	15.1808			N/A
11/6/2018	CADMXN	1:30:00 PM	15.1931	15.2038			N/A
11/6/2018	CADMXN	3:30:00 PM	15.1755	15.1829			N/A
11/6/2018	CADNOK	9:30:00 AM	6.3649	6.3695			N/A
11/6/2018	CADNOK	11:30:00 AM	6.3682	6.373			N/A
11/6/2018	CADNOK	1:30:00 PM	6.3753	6.3802			N/A
11/6/2018	CADNOK	3:30:00 PM	6.366	6.3708			N/A
11/6/2018	CADPLN	9:30:00 AM	2.8764	2.8783			N/A
11/6/2018	CADPLN	11:30:00 AM	2.8764	2.8777			N/A
11/6/2018	CADPLN	1:30:00 PM	2.8807	2.8823			N/A
11/6/2018	CADPLN	3:30:00 PM	2.8731	2.8748			N/A
11/6/2018	CADSEK	9:30:00 AM	6.8987	6.9012			N/A
11/6/2018	CADSEK	11:30:00 AM	6.9019	6.9056			N/A
11/6/2018	CADSEK	1:30:00 PM	6.9131	6.9152			N/A
11/6/2018	CADSEK	3:30:00 PM	6.9	6.9036			N/A
11/6/2018	CADSGD	9:30:00 AM	1.0483	1.0486			N/A
11/6/2018	CADSGD	11:30:00 AM	1.0478	1.0481			N/A
11/6/2018	CADSGD	1:30:00 PM	1.0477	1.048			N/A
11/6/2018	CADSGD	3:30:00 PM	1.0466	1.0469			N/A
11/6/2018	CADZAR	9:30:00 AM	10.8149	10.8276			N/A
11/6/2018	CADZAR	11:30:00 AM	10.8495	10.8599			N/A
11/6/2018	CADZAR	1:30:00 PM	10.8421	10.8578			N/A
11/6/2018	CADZAR	3:30:00 PM	10.8159	10.8279			N/A
11/6/2018	CHFCZK	9:30:00 AM	22.504	22.522			N/A
11/6/2018	CHFCZK	11:30:00 AM	22.522	22.527			N/A
11/6/2018	CHFCZK	1:30:00 PM	22.561	22.578			N/A
11/6/2018	CHFCZK	3:30:00 PM	22.54	22.557			N/A
11/6/2018	CHFDKK	9:30:00 AM					N/A
11/6/2018	CHFDKK	11:30:00 AM	6.504	6.507			N/A
11/6/2018	CHFDKK	1:30:00 PM					N/A
11/6/2018	CHFDKK	3:30:00 PM					N/A
11/6/2018	CHFHKD	9:30:00 AM	7.8033	7.8071			N/A

11/6/2018	CHFHKD	11:30:00 AM	7.7981	7.8013			N/A
11/6/2018	CHFHKD	1:30:00 PM	7.7939	7.7973			N/A
11/6/2018	CHFHKD	3:30:00 PM	7.8115	7.8141			N/A
11/6/2018	CHFHUF	9:30:00 AM	280.69	281.03			N/A
11/6/2018	CHFHUF	11:30:00 AM	280.53	280.91			N/A
11/6/2018	CHFHUF	1:30:00 PM	280.97	281.36			N/A
11/6/2018	CHFHUF	3:30:00 PM	280.85	281.22			N/A
11/6/2018	CHFJPY	9:30:00 AM	112.894	112.929			N/A
11/6/2018	CHFJPY	11:30:00 AM	112.677	112.701			N/A
11/6/2018	CHFJPY	1:30:00 PM	112.604	112.632			N/A
11/6/2018	CHFJPY	3:30:00 PM	112.803	112.822			N/A
11/6/2018	CHFMXN	9:30:00 AM	19.796	19.8103			N/A
11/6/2018	CHFMXN	11:30:00 AM	19.8178	19.8257			N/A
11/6/2018	CHFMXN	1:30:00 PM	19.8446	19.8604			N/A
11/6/2018	CHFMXN	3:30:00 PM	19.8568	19.8674			N/A
11/6/2018	CHFNOK	9:30:00 AM	8.3137	8.3206			N/A
11/6/2018	CHFNOK	11:30:00 AM	8.3155	8.3234			N/A
11/6/2018	CHFNOK	1:30:00 PM	8.3283	8.3356			N/A
11/6/2018	CHFNOK	3:30:00 PM	8.33	8.338			N/A
11/6/2018	CHFPLN	9:30:00 AM	3.7576	3.7607			N/A
11/6/2018	CHFPLN	11:30:00 AM	3.7564	3.7584			N/A
11/6/2018	CHFPLN	1:30:00 PM	3.763	3.7659			N/A
11/6/2018	CHFPLN	3:30:00 PM	3.7592	3.7621			N/A
11/6/2018	CHFSEK	9:30:00 AM	9.0131	9.0142			N/A
11/6/2018	CHFSEK	11:30:00 AM	9.0144	9.0183			N/A
11/6/2018	CHFSEK	1:30:00 PM	9.0322	9.0348			N/A
11/6/2018	CHFSEK	3:30:00 PM	9.0314	9.0343			N/A
11/6/2018	CHFSGD	9:30:00 AM	1.3691	1.3696			N/A
11/6/2018	CHFSGD	11:30:00 AM	1.368	1.3685			N/A
11/6/2018	CHFSGD	1:30:00 PM	1.3685	1.369			N/A
11/6/2018	CHFSGD	3:30:00 PM	1.3695	1.3698			N/A
11/6/2018	CHFZAR	9:30:00 AM	14.1305	14.14			N/A
11/6/2018	CHFZAR	11:30:00 AM	14.1703	14.1786			N/A
11/6/2018	CHFZAR	1:30:00 PM	14.1666	14.1803			N/A
11/6/2018	CHFZAR	3:30:00 PM	14.1577	14.1669			N/A
11/6/2018	CZKJPY	9:30:00 AM					N/A
11/6/2018	CZKJPY	11:30:00 AM	5.004	5.006			N/A
11/6/2018	CZKJPY	1:30:00 PM					N/A
11/6/2018	CZKJPY	3:30:00 PM					N/A
11/6/2018	DKKJPY	9:30:00 AM					N/A
11/6/2018	DKKJPY	11:30:00 AM	17.32	17.34			N/A
11/6/2018	DKKJPY	1:30:00 PM	17.29	17.3			N/A
11/6/2018	DKKJPY	3:30:00 PM	17.34	17.35			N/A
11/6/2018	EURAUD	9:30:00 AM	1.58057	1.58035			N/A
11/6/2018	EURAUD	11:30:00 AM	1.57779	1.5776			N/A
11/6/2018	EURAUD	1:30:00 PM	1.57606	1.5759			N/A
11/6/2018	EURAUD	3:30:00 PM	1.57972	1.57951			N/A
11/6/2018	EURCAD	9:30:00 AM	1.49671	1.49725			N/A
11/6/2018	EURCAD	11:30:00 AM	1.49721	1.49768			N/A
11/6/2018	EURCAD	1:30:00 PM	1.49533	1.49578			N/A

11/6/2018	EURCAD	3:30:00 PM	1.49957	1.49989			N/A
11/6/2018	EURCHF	9:30:00 AM	1.14591	1.14604			N/A
11/6/2018	EURCHF	11:30:00 AM	1.14662	1.14667			N/A
11/6/2018	EURCHF	1:30:00 PM	1.14473	1.14483			N/A
11/6/2018	EURCHF	3:30:00 PM	1.1456	1.14623			N/A
11/6/2018	EURCZK	9:30:00 AM	25.783	25.818			N/A
11/6/2018	EURCZK	11:30:00 AM	25.816	25.843			N/A
11/6/2018	EURCZK	1:30:00 PM	25.82	25.858			N/A
11/6/2018	EURCZK	3:30:00 PM	25.818	25.858			N/A
11/6/2018	EURDKK	9:30:00 AM	7.4589	7.4601			N/A
11/6/2018	EURDKK	11:30:00 AM	7.458	7.4592			N/A
11/6/2018	EURDKK	1:30:00 PM	7.4586	7.4597			N/A
11/6/2018	EURDKK	3:30:00 PM	7.4585	7.4594			N/A
11/6/2018	EURGBP	9:30:00 AM	0.87399	0.87396			N/A
11/6/2018	EURGBP	11:30:00 AM	0.87394	0.87386			N/A
11/6/2018	EURGBP	1:30:00 PM	0.87402	0.874			N/A
11/6/2018	EURGBP	3:30:00 PM	0.87394	0.87383			N/A
11/6/2018	EURHKD	9:30:00 AM	8.9406	8.9455			N/A
11/6/2018	EURHKD	11:30:00 AM	8.9401	8.9445			N/A
11/6/2018	EURHKD	1:30:00 PM	8.9205	8.9253			N/A
11/6/2018	EURHKD	3:30:00 PM	8.9499	8.9525			N/A
11/6/2018	EURHUF	9:30:00 AM	321.55	322.22			N/A
11/6/2018	EURHUF	11:30:00 AM	321.56	322.27			N/A
11/6/2018	EURHUF	1:30:00 PM	321.55	322.26			N/A
11/6/2018	EURHUF	3:30:00 PM	321.72	322.42			N/A
11/6/2018	EURJPY	9:30:00 AM	129.412	129.402			N/A
11/6/2018	EURJPY	11:30:00 AM	129.244	129.222			N/A
11/6/2018	EURJPY	1:30:00 PM	128.942	128.924			N/A
11/6/2018	EURJPY	3:30:00 PM	129.308	129.276			N/A
11/6/2018	EURMXN	9:30:00 AM	22.687	22.7019			N/A
11/6/2018	EURMXN	11:30:00 AM	22.7263	22.7344			N/A
11/6/2018	EURMXN	1:30:00 PM	22.7187	22.736			N/A
11/6/2018	EURMXN	3:30:00 PM	22.756	22.7666			N/A
11/6/2018	EURNOK	9:30:00 AM	9.5261	9.5367			N/A
11/6/2018	EURNOK	11:30:00 AM	9.5332	9.5455			N/A
11/6/2018	EURNOK	1:30:00 PM	9.5331	9.5438			N/A
11/6/2018	EURNOK	3:30:00 PM	9.5433	9.5562			N/A
11/6/2018	EURNZD	9:30:00 AM	1.71331	1.71399			N/A
11/6/2018	EURNZD	11:30:00 AM	1.71055	1.71135			N/A
11/6/2018	EURNZD	1:30:00 PM	1.70779	1.70843			N/A
11/6/2018	EURNZD	3:30:00 PM	1.71063	1.7114			N/A
11/6/2018	EURPLN	9:30:00 AM	4.3066	4.3093			N/A
11/6/2018	EURPLN	11:30:00 AM	4.3078	4.3093			N/A
11/6/2018	EURPLN	1:30:00 PM	4.3087	4.3109			N/A
11/6/2018	EURPLN	3:30:00 PM	4.3077	4.3109			N/A
11/6/2018	EURRUR	9:30:00 AM					N/A
11/6/2018	EURRUR	11:30:00 AM	75.003	75.445			N/A
11/6/2018	EURRUR	1:30:00 PM	74.943	75.385			N/A
11/6/2018	EURRUR	3:30:00 PM	74.944	75.373			N/A
11/6/2018	EURSEK	9:30:00 AM	10.3278	10.3294			N/A

11/6/2018	EURSEK	11:30:00 AM	10.3351	10.3403			N/A
11/6/2018	EURSEK	1:30:00 PM	10.3389	10.342			N/A
11/6/2018	EURSEK	3:30:00 PM	10.3475	10.3509			N/A
11/6/2018	EURSGD	9:30:00 AM	1.5688	1.5697			N/A
11/6/2018	EURSGD	11:30:00 AM	1.5686	1.5693			N/A
11/6/2018	EURSGD	1:30:00 PM	1.5665	1.5673			N/A
11/6/2018	EURSGD	3:30:00 PM	1.5692	1.5698			N/A
11/6/2018	EURUSD	9:30:00 AM	1.14127	1.14132			N/A
11/6/2018	EURUSD	11:30:00 AM	1.14165	1.1416			N/A
11/6/2018	EURUSD	1:30:00 PM	1.1393	1.1393			N/A
11/6/2018	EURUSD	3:30:00 PM	1.14288	1.14256			N/A
11/6/2018	EURZAR	9:30:00 AM	16.1954	16.2092			N/A
11/6/2018	EURZAR	11:30:00 AM	16.2513	16.2611			N/A
11/6/2018	EURZAR	1:30:00 PM	16.2186	16.2323			N/A
11/6/2018	EURZAR	3:30:00 PM	16.2256	16.2376			N/A
11/6/2018	GBPAUD	9:30:00 AM	1.80847	1.80894			N/A
11/6/2018	GBPAUD	11:30:00 AM	1.80562	1.80594			N/A
11/6/2018	GBPAUD	1:30:00 PM	1.80331	1.80403			N/A
11/6/2018	GBPAUD	3:30:00 PM	1.80779	1.80816			N/A
11/6/2018	GBPCAD	9:30:00 AM	1.71237	1.71294			N/A
11/6/2018	GBPCAD	11:30:00 AM	1.71331	1.71355			N/A
11/6/2018	GBPCAD	1:30:00 PM	1.71065	1.71127			N/A
11/6/2018	GBPCAD	3:30:00 PM	1.71591	1.71594			N/A
11/6/2018	GBPCHF	9:30:00 AM	1.31105	1.31132			N/A
11/6/2018	GBPCHF	11:30:00 AM	1.3121	1.31223			N/A
11/6/2018	GBPCHF	1:30:00 PM	1.30965	1.30999			N/A
11/6/2018	GBPCHF	3:30:00 PM	1.31105	1.31144			N/A
11/6/2018	GBPCZK	9:30:00 AM	29.503	29.521			N/A
11/6/2018	GBPCZK	11:30:00 AM	29.552	29.555			N/A
11/6/2018	GBPCZK	1:30:00 PM	29.545	29.564			N/A
11/6/2018	GBPCZK	3:30:00 PM	29.553	29.566			N/A
11/6/2018	GBPDKK	9:30:00 AM	8.531	8.542			N/A
11/6/2018	GBPDKK	11:30:00 AM	8.532	8.543			N/A
11/6/2018	GBPDKK	1:30:00 PM	8.531	8.542			N/A
11/6/2018	GBPDKK	3:30:00 PM	8.533	8.542			N/A
11/6/2018	GBPHKD	9:30:00 AM	10.2289	10.2335			N/A
11/6/2018	GBPHKD	11:30:00 AM	10.2317	10.2339			N/A
11/6/2018	GBPHKD	1:30:00 PM	10.2057	10.2102			N/A
11/6/2018	GBPHKD	3:30:00 PM	10.2418	10.2418			N/A
11/6/2018	GBPHUF	9:30:00 AM	367.94	368.39			N/A
11/6/2018	GBPHUF	11:30:00 AM	368.08	368.46			N/A
11/6/2018	GBPHUF	1:30:00 PM	367.94	368.42			N/A
11/6/2018	GBPHUF	3:30:00 PM	368.23	368.6			N/A
11/6/2018	GBPJPY	9:30:00 AM	148.063	148.078			N/A
11/6/2018	GBPJPY	11:30:00 AM	147.902	147.89			N/A
11/6/2018	GBPJPY	1:30:00 PM	147.515	147.546			N/A
11/6/2018	GBPJPY	3:30:00 PM	147.973	147.936			N/A
11/6/2018	GBPMXN	9:30:00 AM	25.9514	25.966			N/A
11/6/2018	GBPMXN	11:30:00 AM	25.9969	26.0083			N/A
11/6/2018	GBPMXN	1:30:00 PM	25.9885	26.0037			N/A

11/6/2018	GBPMXN	3:30:00 PM	26.038	26.0412			N/A
11/6/2018	GBPNOK	9:30:00 AM	10.9001	10.9106			N/A
11/6/2018	GBPNOK	11:30:00 AM	10.9122	10.921			N/A
11/6/2018	GBPNOK	1:30:00 PM	10.9077	10.9178			N/A
11/6/2018	GBPNOK	3:30:00 PM	10.9239	10.9329			N/A
11/6/2018	GBPNZD	9:30:00 AM	1.96045	1.96108			N/A
11/6/2018	GBPNZD	11:30:00 AM	1.95779	1.95804			N/A
11/6/2018	GBPNZD	1:30:00 PM	1.95407	1.95473			N/A
11/6/2018	GBPNZD	3:30:00 PM	1.95777	1.95797			N/A
11/6/2018	GBPPLN	9:30:00 AM	4.9281	4.9296			N/A
11/6/2018	GBPPLN	11:30:00 AM	4.9305	4.9304			N/A
11/6/2018	GBPPLN	1:30:00 PM	4.9311	4.9314			N/A
11/6/2018	GBPPLN	3:30:00 PM	4.931	4.9315			N/A
11/6/2018	GBPSEK	9:30:00 AM	11.8148	11.8209			N/A
11/6/2018	GBPSEK	11:30:00 AM	11.827	11.833			N/A
11/6/2018	GBPSEK	1:30:00 PM	11.8267	11.8338			N/A
11/6/2018	GBPSEK	3:30:00 PM	11.8406	11.8447			N/A
11/6/2018	GBPSGD	9:30:00 AM	1.7952	1.7959			N/A
11/6/2018	GBPSGD	11:30:00 AM	1.7951	1.7957			N/A
11/6/2018	GBPSGD	1:30:00 PM	1.7925	1.7931			N/A
11/6/2018	GBPSGD	3:30:00 PM	1.796	1.796			N/A
11/6/2018	GBPUSD	9:30:00 AM	1.30615	1.30593			N/A
11/6/2018	GBPUSD	11:30:00 AM	1.30676	1.30642			N/A
11/6/2018	GBPUSD	1:30:00 PM	1.30376	1.30365			N/A
11/6/2018	GBPUSD	3:30:00 PM	1.30813	1.30738			N/A
11/6/2018	GBPZAR	9:30:00 AM	18.5291	18.5494			N/A
11/6/2018	GBPZAR	11:30:00 AM	18.593	18.6139			N/A
11/6/2018	GBPZAR	1:30:00 PM	18.5544	18.5789			N/A
11/6/2018	GBPZAR	3:30:00 PM	18.5635	18.5852			N/A
11/6/2018	GOLD	9:30:00 AM	1230.5	1230.64			N/A
11/6/2018	GOLD	11:30:00 AM	1234.66	1234.75			N/A
11/6/2018	GOLD	1:30:00 PM	1235.04	1235.1			N/A
11/6/2018	GOLD	3:30:00 PM	1233.45	1233.28			N/A
11/6/2018	HKDJPY	9:30:00 AM					N/A
11/6/2018	HKDJPY	11:30:00 AM					N/A
11/6/2018	HKDJPY	1:30:00 PM					N/A
11/6/2018	HKDJPY	3:30:00 PM					N/A
11/6/2018	HUFJPY	9:30:00 AM	0.4023	0.4026			N/A
11/6/2018	HUFJPY	11:30:00 AM	0.4019	0.4021			N/A
11/6/2018	HUFJPY	1:30:00 PM	0.4009	0.4012			N/A
11/6/2018	HUFJPY	3:30:00 PM	0.4017	0.402			N/A
11/6/2018	MXNJPY	9:30:00 AM					N/A
11/6/2018	MXNJPY	11:30:00 AM					N/A
11/6/2018	MXNJPY	1:30:00 PM					N/A
11/6/2018	MXNJPY	3:30:00 PM					N/A
11/6/2018	NOKJPY	9:30:00 AM					N/A
11/6/2018	NOKJPY	11:30:00 AM					N/A
11/6/2018	NOKJPY	1:30:00 PM					N/A
11/6/2018	NOKJPY	3:30:00 PM					N/A
11/6/2018	NZDCAD	9:30:00 AM	0.87313	0.87382			N/A

11/6/2018	NZDCAD	11:30:00 AM	0.87476	0.87547			N/A
11/6/2018	NZDCAD	1:30:00 PM	0.87511	0.87576			N/A
11/6/2018	NZDCAD	3:30:00 PM	0.87614	0.87674			N/A
11/6/2018	NZDCHF	9:30:00 AM	0.66838	0.66908			N/A
11/6/2018	NZDCHF	11:30:00 AM	0.66985	0.67057			N/A
11/6/2018	NZDCHF	1:30:00 PM	0.66986	0.67054			N/A
11/6/2018	NZDCHF	3:30:00 PM	0.66942	0.67006			N/A
11/6/2018	NZDCZK	9:30:00 AM	15.044	15.055			N/A
11/6/2018	NZDCZK	11:30:00 AM	15.088	15.094			N/A
11/6/2018	NZDCZK	1:30:00 PM	15.115	15.127			N/A
11/6/2018	NZDCZK	3:30:00 PM	15.09	15.102			N/A
11/6/2018	NZDDKK	9:30:00 AM					N/A
11/6/2018	NZDDKK	11:30:00 AM					N/A
11/6/2018	NZDDKK	1:30:00 PM					N/A
11/6/2018	NZDDKK	3:30:00 PM	4.358	4.361			N/A
11/6/2018	NZDHKD	9:30:00 AM	5.2159	5.2186			N/A
11/6/2018	NZDHKD	11:30:00 AM	5.2244	5.2267			N/A
11/6/2018	NZDHKD	1:30:00 PM	5.2215	5.2238			N/A
11/6/2018	NZDHKD	3:30:00 PM	5.23	5.2312			N/A
11/6/2018	NZDHUF	9:30:00 AM	187.61	187.89			N/A
11/6/2018	NZDHUF	11:30:00 AM	187.91	188.2			N/A
11/6/2018	NZDHUF	1:30:00 PM	188.23	188.51			N/A
11/6/2018	NZDHUF	3:30:00 PM	188.01	188.28			N/A
11/6/2018	NZDJPY	9:30:00 AM	75.487	75.548			N/A
11/6/2018	NZDJPY	11:30:00 AM	75.502	75.571			N/A
11/6/2018	NZDJPY	1:30:00 PM	75.454	75.518			N/A
11/6/2018	NZDJPY	3:30:00 PM	75.541	75.596			N/A
11/6/2018	NZDMXN	9:30:00 AM	13.2347	13.2394			N/A
11/6/2018	NZDMXN	11:30:00 AM	13.2786	13.2775			N/A
11/6/2018	NZDMXN	1:30:00 PM	13.2964	13.303			N/A
11/6/2018	NZDMXN	3:30:00 PM	13.2969	13.2982			N/A
11/6/2018	NZDNOK	9:30:00 AM	5.5578	5.5617			N/A
11/6/2018	NZDNOK	11:30:00 AM	5.5716	5.5755			N/A
11/6/2018	NZDNOK	1:30:00 PM	5.5796	5.583			N/A
11/6/2018	NZDNOK	3:30:00 PM	5.5779	5.5815			N/A
11/6/2018	NZDPLN	9:30:00 AM	2.5117	2.5127			N/A
11/6/2018	NZDPLN	11:30:00 AM	2.5162	2.5174			N/A
11/6/2018	NZDPLN	1:30:00 PM	2.5211	2.5224			N/A
11/6/2018	NZDPLN	3:30:00 PM	2.5172	2.5186			N/A
11/6/2018	NZDSEK	9:30:00 AM	6.0217	6.0277			N/A
11/6/2018	NZDSEK	11:30:00 AM	6.0367	6.0435			N/A
11/6/2018	NZDSEK	1:30:00 PM	6.0477	6.0532			N/A
11/6/2018	NZDSEK	3:30:00 PM	6.0443	6.0494			N/A
11/6/2018	NZDSGD	9:30:00 AM	0.9156	0.9162			N/A
11/6/2018	NZDSGD	11:30:00 AM	0.9169	0.9175			N/A
11/6/2018	NZDSGD	1:30:00 PM	0.9172	0.9178			N/A
11/6/2018	NZDSGD	3:30:00 PM	0.9172	0.9178			N/A
11/6/2018	NZDUSD	9:30:00 AM	0.66599	0.666			N/A
11/6/2018	NZDUSD	11:30:00 AM	0.66721	0.6673			N/A
11/6/2018	NZDUSD	1:30:00 PM	0.66695	0.66699			N/A

11/6/2018	NZDUSD	3:30:00 PM	0.66791	0.66773			N/A
11/6/2018	NZDZAR	9:30:00 AM	9.4423	9.4547			N/A
11/6/2018	NZDZAR	11:30:00 AM	9.4897	9.5015			N/A
11/6/2018	NZDZAR	1:30:00 PM	9.4866	9.5022			N/A
11/6/2018	NZDZAR	3:30:00 PM	9.4739	9.4881			N/A
11/6/2018	SEKJPY	9:30:00 AM					N/A
11/6/2018	SEKJPY	11:30:00 AM					N/A
11/6/2018	SEKJPY	1:30:00 PM					N/A
11/6/2018	SEKJPY	3:30:00 PM					N/A
11/6/2018	SGDJPY	9:30:00 AM	82.44	82.47			N/A
11/6/2018	SGDJPY	11:30:00 AM	82.35	82.38			N/A
11/6/2018	SGDJPY	1:30:00 PM	82.26	82.29			N/A
11/6/2018	SGDJPY	3:30:00 PM	82.35	82.38			N/A
11/6/2018	SILVER	9:30:00 AM	14.47	14.84			N/A
11/6/2018	SILVER	11:30:00 AM	14.5	14.87			N/A
11/6/2018	SILVER	1:30:00 PM	14.47	14.85			N/A
11/6/2018	SILVER	3:30:00 PM	14.44	14.81			N/A
11/6/2018	USDCAD	9:30:00 AM	1.31134	1.31141			N/A
11/6/2018	USDCAD	11:30:00 AM	1.31134	1.31144			N/A
11/6/2018	USDCAD	1:30:00 PM	1.31236	1.31248			N/A
11/6/2018	USDCAD	3:30:00 PM	1.31216	1.31209			N/A
11/6/2018	USDCHF	9:30:00 AM	1.00393	1.00402			N/A
11/6/2018	USDCHF	11:30:00 AM	1.00427	1.00433			N/A
11/6/2018	USDCHF	1:30:00 PM	1.00464	1.00474			N/A
11/6/2018	USDCHF	3:30:00 PM	1.00242	1.00293			N/A
11/6/2018	USDCZK	9:30:00 AM	22.59	22.612			N/A
11/6/2018	USDCZK	11:30:00 AM	22.61	22.628			N/A
11/6/2018	USDCZK	1:30:00 PM	22.662	22.685			N/A
11/6/2018	USDCZK	3:30:00 PM	22.595	22.616			N/A
11/6/2018	USDDKK	9:30:00 AM	6.5357	6.5408			N/A
11/6/2018	USDDKK	11:30:00 AM	6.5339	6.5387			N/A
11/6/2018	USDDKK	1:30:00 PM	6.547	6.5523			N/A
11/6/2018	USDDKK	3:30:00 PM	6.5282	6.5316			N/A
11/6/2018	USDHKD	9:30:00 AM	7.8346	7.8351			N/A
11/6/2018	USDHKD	11:30:00 AM	7.8321	7.8319			N/A
11/6/2018	USDHKD	1:30:00 PM	7.8312	7.8313			N/A
11/6/2018	USDHKD	3:30:00 PM	7.8322	7.8327			N/A
11/6/2018	USDHUF	9:30:00 AM	281.79	282.19			N/A
11/6/2018	USDHUF	11:30:00 AM	281.72	282.17			N/A
11/6/2018	USDHUF	1:30:00 PM	282.28	282.75			N/A
11/6/2018	USDHUF	3:30:00 PM	281.61	282.01			N/A
11/6/2018	USDJPY	9:30:00 AM	113.378	113.377			N/A
11/6/2018	USDJPY	11:30:00 AM	113.196	113.193			N/A
11/6/2018	USDJPY	1:30:00 PM	113.173	113.155			N/A
11/6/2018	USDJPY	3:30:00 PM	113.153	113.138			N/A
11/6/2018	USDMXN	9:30:00 AM	19.88	19.885			N/A
11/6/2018	USDMXN	11:30:00 AM	19.908	19.905			N/A
11/6/2018	USDMXN	1:30:00 PM	19.944	19.95			N/A
11/6/2018	USDMXN	3:30:00 PM	19.918	19.913			N/A
11/6/2018	USDNOK	9:30:00 AM	8.3468	8.3548			N/A

11/6/2018	USDNOK	11:30:00 AM	8.3518	8.3602			N/A
11/6/2018	USDNOK	1:30:00 PM	8.3681	8.3764			N/A
11/6/2018	USDNOK	3:30:00 PM	8.354	8.3608			N/A
11/6/2018	USDPLN	9:30:00 AM	3.7734	3.7746			N/A
11/6/2018	USDPLN	11:30:00 AM	3.7734	3.7737			N/A
11/6/2018	USDPLN	1:30:00 PM	3.782	3.7828			N/A
11/6/2018	USDPLN	3:30:00 PM	3.7704	3.7708			N/A
11/6/2018	USDRUR	9:30:00 AM					N/A
11/6/2018	USDRUR	11:30:00 AM	65.759	66.154			N/A
11/6/2018	USDRUR	1:30:00 PM	65.845	66.239			N/A
11/6/2018	USDRUR	3:30:00 PM	65.655	66.032			N/A
11/6/2018	USDSEK	9:30:00 AM	9.0464	9.0484			N/A
11/6/2018	USDSEK	11:30:00 AM	9.0503	9.0547			N/A
11/6/2018	USDSEK	1:30:00 PM	9.072	9.0754			N/A
11/6/2018	USDSEK	3:30:00 PM	9.0523	9.0563			N/A
11/6/2018	USDSGD	9:30:00 AM	1.3745	1.3749			N/A
11/6/2018	USDSGD	11:30:00 AM	1.3739	1.3743			N/A
11/6/2018	USDSGD	1:30:00 PM	1.375	1.3754			N/A
11/6/2018	USDSGD	3:30:00 PM	1.3732	1.3734			N/A
11/6/2018	USDZAR	9:30:00 AM	14.1873	14.204			N/A
11/6/2018	USDZAR	11:30:00 AM	14.2338	14.2408			N/A
11/6/2018	USDZAR	1:30:00 PM	14.2336	14.2463			N/A
11/6/2018	USDZAR	3:30:00 PM	14.1979	14.206			N/A
11/6/2018	XAUUSD	9:30:00 AM	1230.5	1230.59			N/A
11/6/2018	XAUUSD	11:30:00 AM	1234.66	1234.75			N/A
11/6/2018	XAUUSD	1:30:00 PM	1235.04	1235.1			N/A
11/6/2018	XAUUSD	3:30:00 PM	1233.45	1233.29			N/A
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11/7/2018	#TRV	3:30:00 PM					N/A
11/7/2018	#TSCO	9:30:00 AM					N/A
11/7/2018	#TSCO	11:30:00 AM					N/A
11/7/2018	#TSCO	1:30:00 PM					N/A
11/7/2018	#TSCO	3:30:00 PM					N/A
11/7/2018	#TSLA	9:30:00 AM					N/A
11/7/2018	#TSLA	11:30:00 AM					N/A
11/7/2018	#TSLA	1:30:00 PM					N/A
11/7/2018	#TSLA	3:30:00 PM					N/A
11/7/2018	#TWTR	9:30:00 AM					N/A
11/7/2018	#TWTR	11:30:00 AM					N/A
11/7/2018	#TWTR	1:30:00 PM					N/A
11/7/2018	#TWTR	3:30:00 PM					N/A
11/7/2018	#UBS	9:30:00 AM					N/A
11/7/2018	#UBS	11:30:00 AM					N/A
11/7/2018	#UBS	1:30:00 PM					N/A
11/7/2018	#UBS	3:30:00 PM					N/A
11/7/2018	#UL	9:30:00 AM					N/A

11/7/2018	#UL	11:30:00 AM					N/A
11/7/2018	#UL	1:30:00 PM					N/A
11/7/2018	#UL	3:30:00 PM					N/A
11/7/2018	#UPS	9:30:00 AM					N/A
11/7/2018	#UPS	11:30:00 AM					N/A
11/7/2018	#UPS	1:30:00 PM					N/A
11/7/2018	#UPS	3:30:00 PM					N/A
11/7/2018	#UTX	9:30:00 AM					N/A
11/7/2018	#UTX	11:30:00 AM					N/A
11/7/2018	#UTX	1:30:00 PM					N/A
11/7/2018	#UTX	3:30:00 PM					N/A
11/7/2018	#V	9:30:00 AM					N/A
11/7/2018	#V	11:30:00 AM					N/A
11/7/2018	#V	1:30:00 PM					N/A
11/7/2018	#V	3:30:00 PM					N/A
11/7/2018	#VOD	9:30:00 AM					N/A
11/7/2018	#VOD	11:30:00 AM					N/A
11/7/2018	#VOD	1:30:00 PM					N/A
11/7/2018	#VOD	3:30:00 PM					N/A
11/7/2018	#VZ	9:30:00 AM					N/A
11/7/2018	#VZ	11:30:00 AM					N/A
11/7/2018	#VZ	1:30:00 PM					N/A
11/7/2018	#VZ	3:30:00 PM					N/A
11/7/2018	#WDC	9:30:00 AM					N/A
11/7/2018	#WDC	11:30:00 AM					N/A
11/7/2018	#WDC	1:30:00 PM					N/A
11/7/2018	#WDC	3:30:00 PM					N/A
11/7/2018	#WFC	9:30:00 AM					N/A
11/7/2018	#WFC	11:30:00 AM					N/A
11/7/2018	#WFC	1:30:00 PM					N/A
11/7/2018	#WFC	3:30:00 PM					N/A
11/7/2018	#WMT	9:30:00 AM					N/A
11/7/2018	#WMT	11:30:00 AM					N/A
11/7/2018	#WMT	1:30:00 PM					N/A
11/7/2018	#WMT	3:30:00 PM					N/A
11/7/2018	#XOM	9:30:00 AM					N/A
11/7/2018	#XOM	11:30:00 AM					N/A
11/7/2018	#XOM	1:30:00 PM					N/A
11/7/2018	#XOM	3:30:00 PM					N/A
11/7/2018	#YHOO	9:30:00 AM					N/A
11/7/2018	#YHOO	11:30:00 AM					N/A
11/7/2018	#YHOO	1:30:00 PM					N/A
11/7/2018	#YHOO	3:30:00 PM					N/A
11/7/2018	#ZNGA	9:30:00 AM					N/A
11/7/2018	#ZNGA	11:30:00 AM					N/A
11/7/2018	#ZNGA	1:30:00 PM					N/A
11/7/2018	#ZNGA	3:30:00 PM					N/A
11/7/2018	AUDCAD	9:30:00 AM	0.95189	0.95206			N/A
11/7/2018	AUDCAD	11:30:00 AM	0.95346	0.95398			N/A
11/7/2018	AUDCAD	1:30:00 PM	0.95374	0.95421			N/A

11/7/2018	AUDCAD	3:30:00 PM	0.95309	0.95335			N/A
11/7/2018	AUDCHF	9:30:00 AM	0.72521	0.72546			N/A
11/7/2018	AUDCHF	11:30:00 AM	0.72611	0.72667			N/A
11/7/2018	AUDCHF	1:30:00 PM	0.72588	0.72651			N/A
11/7/2018	AUDCHF	3:30:00 PM	0.72646	0.72708			N/A
11/7/2018	AUDCZK	9:30:00 AM	16.363	16.377			N/A
11/7/2018	AUDCZK	11:30:00 AM	16.384	16.398			N/A
11/7/2018	AUDCZK	1:30:00 PM	16.396	16.408			N/A
11/7/2018	AUDCZK	3:30:00 PM	16.425	16.438			N/A
11/7/2018	AUDDKK	9:30:00 AM	4.7194	4.7229			N/A
11/7/2018	AUDDKK	11:30:00 AM	4.7262	4.7301			N/A
11/7/2018	AUDDKK	1:30:00 PM	4.7324	4.7364			N/A
11/7/2018	AUDDKK	3:30:00 PM	4.7358	4.7404			N/A
11/7/2018	AUDHKD	9:30:00 AM	5.6794	5.6803			N/A
11/7/2018	AUDHKD	11:30:00 AM	5.699	5.702			N/A
11/7/2018	AUDHKD	1:30:00 PM	5.7086	5.7119			N/A
11/7/2018	AUDHKD	3:30:00 PM	5.7107	5.7145			N/A
11/7/2018	AUDHUF	9:30:00 AM	203.52	203.7			N/A
11/7/2018	AUDHUF	11:30:00 AM	203.56	203.65			N/A
11/7/2018	AUDHUF	1:30:00 PM	203.9	204.1			N/A
11/7/2018	AUDHUF	3:30:00 PM	204.16	204.36			N/A
11/7/2018	AUDJPY	9:30:00 AM	81.964	82.005			N/A
11/7/2018	AUDJPY	11:30:00 AM	82.304	82.356			N/A
11/7/2018	AUDJPY	1:30:00 PM	82.438	82.496			N/A
11/7/2018	AUDJPY	3:30:00 PM	82.594	82.659			N/A
11/7/2018	AUDMXN	9:30:00 AM	14.2955	14.2989			N/A
11/7/2018	AUDMXN	11:30:00 AM	14.2669	14.2742			N/A
11/7/2018	AUDMXN	1:30:00 PM	14.3034	14.3115			N/A
11/7/2018	AUDMXN	3:30:00 PM	14.3637	14.3732			N/A
11/7/2018	AUDNOK	9:30:00 AM	6.0443	6.0491			N/A
11/7/2018	AUDNOK	11:30:00 AM	6.0474	6.0531			N/A
11/7/2018	AUDNOK	1:30:00 PM	6.0484	6.0542			N/A
11/7/2018	AUDNOK	3:30:00 PM	6.0483	6.0532			N/A
11/7/2018	AUDNZD	9:30:00 AM	1.07292	1.07323			N/A
11/7/2018	AUDNZD	11:30:00 AM	1.0742	1.07464			N/A
11/7/2018	AUDNZD	1:30:00 PM	1.07459	1.07524			N/A
11/7/2018	AUDNZD	3:30:00 PM	1.07548	1.07599			N/A
11/7/2018	AUDPLN	9:30:00 AM	2.7242	2.7266			N/A
11/7/2018	AUDPLN	11:30:00 AM	2.7227	2.7256			N/A
11/7/2018	AUDPLN	1:30:00 PM	2.7215	2.7245			N/A
11/7/2018	AUDPLN	3:30:00 PM	2.7244	2.7276			N/A
11/7/2018	AUDSEK	9:30:00 AM	6.5423	6.5433			N/A
11/7/2018	AUDSEK	11:30:00 AM	6.547	6.5494			N/A
11/7/2018	AUDSEK	1:30:00 PM	6.5504	6.553			N/A
11/7/2018	AUDSEK	3:30:00 PM	6.5587	6.5616			N/A
11/7/2018	AUDSGD	9:30:00 AM	0.9951	0.9952			N/A
11/7/2018	AUDSGD	11:30:00 AM	0.997	0.9973			N/A
11/7/2018	AUDSGD	1:30:00 PM	0.9982	0.9984			N/A
11/7/2018	AUDSGD	3:30:00 PM	0.9989	0.9992			N/A
11/7/2018	AUDUSD	9:30:00 AM	0.72562	0.72509			N/A

11/7/2018	AUDUSD	11:30:00 AM	0.72827	0.72812			N/A
11/7/2018	AUDUSD	1:30:00 PM	0.72961	0.72943			N/A
11/7/2018	AUDUSD	3:30:00 PM	0.72982	0.72973			N/A
11/7/2018	AUDZAR	9:30:00 AM	10.2269	10.2306			N/A
11/7/2018	AUDZAR	11:30:00 AM	10.1703	10.1804			N/A
11/7/2018	AUDZAR	1:30:00 PM	10.1615	10.1751			N/A
11/7/2018	AUDZAR	3:30:00 PM	10.1707	10.1817			N/A
11/7/2018	CADCHF	9:30:00 AM	0.76156	0.76221			N/A
11/7/2018	CADCHF	11:30:00 AM	0.76129	0.76188			N/A
11/7/2018	CADCHF	1:30:00 PM	0.76089	0.76157			N/A
11/7/2018	CADCHF	3:30:00 PM	0.76217	0.76261			N/A
11/7/2018	CADCZK	9:30:00 AM	17.195	17.205			N/A
11/7/2018	CADCZK	11:30:00 AM	17.182	17.198			N/A
11/7/2018	CADCZK	1:30:00 PM	17.191	17.205			N/A
11/7/2018	CADCZK	3:30:00 PM	17.24	17.245			N/A
11/7/2018	CADDKK	9:30:00 AM	4.958	4.962			N/A
11/7/2018	CADDKK	11:30:00 AM					N/A
11/7/2018	CADDKK	1:30:00 PM					N/A
11/7/2018	CADDKK	3:30:00 PM	4.971	4.973			N/A
11/7/2018	CADHKD	9:30:00 AM	5.9666	5.9704			N/A
11/7/2018	CADHKD	11:30:00 AM	5.9768	5.9807			N/A
11/7/2018	CADHKD	1:30:00 PM	5.9854	5.9893			N/A
11/7/2018	CADHKD	3:30:00 PM	5.9928	5.9941			N/A
11/7/2018	CADHUF	9:30:00 AM	213.9	213.99			N/A
11/7/2018	CADHUF	11:30:00 AM	213.55	213.54			N/A
11/7/2018	CADHUF	1:30:00 PM	213.84	213.96			N/A
11/7/2018	CADHUF	3:30:00 PM	214.31	214.34			N/A
11/7/2018	CADJPY	9:30:00 AM	86.1	86.142			N/A
11/7/2018	CADJPY	11:30:00 AM	86.292	86.36			N/A
11/7/2018	CADJPY	1:30:00 PM	86.413	86.478			N/A
11/7/2018	CADJPY	3:30:00 PM	86.67	86.696			N/A
11/7/2018	CADMXN	9:30:00 AM	15.0235	15.0257			N/A
11/7/2018	CADMXN	11:30:00 AM	14.9617	14.9736			N/A
11/7/2018	CADMXN	1:30:00 PM	14.9988	15.0092			N/A
11/7/2018	CADMXN	3:30:00 PM	15.0755	15.0803			N/A
11/7/2018	CADNOK	9:30:00 AM	6.3525	6.3549			N/A
11/7/2018	CADNOK	11:30:00 AM	6.3431	6.348			N/A
11/7/2018	CADNOK	1:30:00 PM	6.3429	6.3478			N/A
11/7/2018	CADNOK	3:30:00 PM	6.3476	6.3502			N/A
11/7/2018	CADPLN	9:30:00 AM	2.862	2.863			N/A
11/7/2018	CADPLN	11:30:00 AM	2.8548	2.8567			N/A
11/7/2018	CADPLN	1:30:00 PM	2.8534	2.8554			N/A
11/7/2018	CADPLN	3:30:00 PM	2.8588	2.8598			N/A
11/7/2018	CADSEK	9:30:00 AM	6.8727	6.8729			N/A
11/7/2018	CADSEK	11:30:00 AM	6.8649	6.8666			N/A
11/7/2018	CADSEK	1:30:00 PM	6.8671	6.8705			N/A
11/7/2018	CADSEK	3:30:00 PM	6.8819	6.8829			N/A
11/7/2018	CADSGD	9:30:00 AM	1.0452	1.0454			N/A
11/7/2018	CADSGD	11:30:00 AM	1.0455	1.0458			N/A
11/7/2018	CADSGD	1:30:00 PM	1.0467	1.047			N/A

11/7/2018	CADSGD	3:30:00 PM	1.0477	1.048			N/A
11/7/2018	CADZAR	9:30:00 AM	10.7421	10.7422			N/A
11/7/2018	CADZAR	11:30:00 AM	10.6591	10.6742			N/A
11/7/2018	CADZAR	1:30:00 PM	10.6494	10.6644			N/A
11/7/2018	CADZAR	3:30:00 PM	10.6656	10.6773			N/A
11/7/2018	CHFCZK	9:30:00 AM	22.572	22.579			N/A
11/7/2018	CHFCZK	11:30:00 AM	22.567	22.577			N/A
11/7/2018	CHFCZK	1:30:00 PM	22.587	22.6			N/A
11/7/2018	CHFCZK	3:30:00 PM	22.612	22.62			N/A
11/7/2018	CHFDKK	9:30:00 AM	6.507	6.511			N/A
11/7/2018	CHFDKK	11:30:00 AM	6.509	6.512			N/A
11/7/2018	CHFDKK	1:30:00 PM	6.518	6.522			N/A
11/7/2018	CHFDKK	3:30:00 PM	6.518	6.522			N/A
11/7/2018	CHFHKD	9:30:00 AM	7.8327	7.8355			N/A
11/7/2018	CHFHKD	11:30:00 AM	7.8493	7.8522			N/A
11/7/2018	CHFHKD	1:30:00 PM	7.864	7.8672			N/A
11/7/2018	CHFHKD	3:30:00 PM	7.8601	7.864			N/A
11/7/2018	CHFHUF	9:30:00 AM	280.68	280.96			N/A
11/7/2018	CHFHUF	11:30:00 AM	280.31	280.44			N/A
11/7/2018	CHFHUF	1:30:00 PM	280.82	281.16			N/A
11/7/2018	CHFHUF	3:30:00 PM	280.98	281.29			N/A
11/7/2018	CHFJPY	9:30:00 AM	113.022	113.02			N/A
11/7/2018	CHFJPY	11:30:00 AM	113.325	113.347			N/A
11/7/2018	CHFJPY	1:30:00 PM	113.53	113.558			N/A
11/7/2018	CHFJPY	3:30:00 PM	113.67	113.672			N/A
11/7/2018	CHFMXN	9:30:00 AM	19.7165	19.7201			N/A
11/7/2018	CHFMXN	11:30:00 AM	19.6464	19.6613			N/A
11/7/2018	CHFMXN	1:30:00 PM	19.7024	19.7171			N/A
11/7/2018	CHFMXN	3:30:00 PM	19.7694	19.784			N/A
11/7/2018	CHFNOK	9:30:00 AM	8.3375	8.3423			N/A
11/7/2018	CHFNOK	11:30:00 AM	8.3295	8.3366			N/A
11/7/2018	CHFNOK	1:30:00 PM	8.3315	8.3396			N/A
11/7/2018	CHFNOK	3:30:00 PM	8.3247	8.332			N/A
11/7/2018	CHFPLN	9:30:00 AM	3.7569	3.7579			N/A
11/7/2018	CHFPLN	11:30:00 AM	3.7491	3.7519			N/A
11/7/2018	CHFPLN	1:30:00 PM	3.7482	3.751			N/A
11/7/2018	CHFPLN	3:30:00 PM	3.7495	3.7523			N/A
11/7/2018	CHFSEK	9:30:00 AM	9.023	9.0217			N/A
11/7/2018	CHFSEK	11:30:00 AM	9.0152	9.0184			N/A
11/7/2018	CHFSEK	1:30:00 PM	9.0225	9.0264			N/A
11/7/2018	CHFSEK	3:30:00 PM	9.0271	9.0303			N/A
11/7/2018	CHFSGD	9:30:00 AM	1.3718	1.3722			N/A
11/7/2018	CHFSGD	11:30:00 AM	1.3726	1.3731			N/A
11/7/2018	CHFSGD	1:30:00 PM	1.3745	1.3751			N/A
11/7/2018	CHFSGD	3:30:00 PM	1.3745	1.3749			N/A
11/7/2018	CHFZAR	9:30:00 AM	14.1026	14.096			N/A
11/7/2018	CHFZAR	11:30:00 AM	14.002	14.0104			N/A
11/7/2018	CHFZAR	1:30:00 PM	13.9938	14.0064			N/A
11/7/2018	CHFZAR	3:30:00 PM	13.9941	14.0031			N/A
11/7/2018	CZKJPY	9:30:00 AM	5.007	5.01			N/A

11/7/2018	CZKJPY	11:30:00 AM					N/A
11/7/2018	CZKJPY	1:30:00 PM					N/A
11/7/2018	CZKJPY	3:30:00 PM	5.027	5.03			N/A
11/7/2018	DKKJPY	9:30:00 AM	17.37	17.38			N/A
11/7/2018	DKKJPY	11:30:00 AM					N/A
11/7/2018	DKKJPY	1:30:00 PM					N/A
11/7/2018	DKKJPY	3:30:00 PM					N/A
11/7/2018	EURAUD	9:30:00 AM	1.57985	1.5793			N/A
11/7/2018	EURAUD	11:30:00 AM	1.57723	1.577			N/A
11/7/2018	EURAUD	1:30:00 PM	1.57529	1.57514			N/A
11/7/2018	EURAUD	3:30:00 PM	1.5742	1.57404			N/A
11/7/2018	EURCAD	9:30:00 AM	1.50426	1.50416			N/A
11/7/2018	EURCAD	11:30:00 AM	1.50457	1.50493			N/A
11/7/2018	EURCAD	1:30:00 PM	1.50306	1.50352			N/A
11/7/2018	EURCAD	3:30:00 PM	1.50098	1.50087			N/A
11/7/2018	EURCHF	9:30:00 AM	1.14614	1.14576			N/A
11/7/2018	EURCHF	11:30:00 AM	1.14594	1.14573			N/A
11/7/2018	EURCHF	1:30:00 PM	1.14419	1.14428			N/A
11/7/2018	EURCHF	3:30:00 PM	1.14393	1.1445			N/A
11/7/2018	EURCZK	9:30:00 AM	25.849	25.886			N/A
11/7/2018	EURCZK	11:30:00 AM	25.847	25.884			N/A
11/7/2018	EURCZK	1:30:00 PM	25.835	25.866			N/A
11/7/2018	EURCZK	3:30:00 PM	25.86	25.892			N/A
11/7/2018	EURDKK	9:30:00 AM	7.4584	7.4594			N/A
11/7/2018	EURDKK	11:30:00 AM	7.4583	7.4595			N/A
11/7/2018	EURDKK	1:30:00 PM	7.4591	7.4601			N/A
11/7/2018	EURDKK	3:30:00 PM	7.4592	7.4602			N/A
11/7/2018	EURGBP	9:30:00 AM	0.87257	0.8725			N/A
11/7/2018	EURGBP	11:30:00 AM	0.87297	0.87304			N/A
11/7/2018	EURGBP	1:30:00 PM	0.87308	0.8732			N/A
11/7/2018	EURGBP	3:30:00 PM	0.87371	0.87381			N/A
11/7/2018	EURHKD	9:30:00 AM	8.976	8.9752			N/A
11/7/2018	EURHKD	11:30:00 AM	8.9928	8.9967			N/A
11/7/2018	EURHKD	1:30:00 PM	8.9969	9.0012			N/A
11/7/2018	EURHKD	3:30:00 PM	8.9924	8.9973			N/A
11/7/2018	EURHUF	9:30:00 AM	321.48	322.18			N/A
11/7/2018	EURHUF	11:30:00 AM	321.14	321.89			N/A
11/7/2018	EURHUF	1:30:00 PM	321.22	321.94			N/A
11/7/2018	EURHUF	3:30:00 PM	321.36	322			N/A
11/7/2018	EURJPY	9:30:00 AM	129.548	129.493		10	N/A
11/7/2018	EURJPY	11:30:00 AM	129.884	129.874			N/A
11/7/2018	EURJPY	1:30:00 PM	129.942	129.929			N/A
11/7/2018	EURJPY	3:30:00 PM	130.094	130.079			N/A
11/7/2018	EURMXN	9:30:00 AM	22.5917	22.6008			N/A
11/7/2018	EURMXN	11:30:00 AM	22.5121	22.5298			N/A
11/7/2018	EURMXN	1:30:00 PM	22.5436	22.5602			N/A
11/7/2018	EURMXN	3:30:00 PM	22.6202	22.6386			N/A
11/7/2018	EURNOK	9:30:00 AM	9.5506	9.563			N/A
11/7/2018	EURNOK	11:30:00 AM	9.5416	9.5542			N/A
11/7/2018	EURNOK	1:30:00 PM	9.5314	9.5444			N/A

11/7/2018	EURNOK	3:30:00 PM	9.5243	9.5353			N/A
11/7/2018	EURNZD	9:30:00 AM	1.69527	1.69563			N/A
11/7/2018	EURNZD	11:30:00 AM	1.69492	1.69507			N/A
11/7/2018	EURNZD	1:30:00 PM	1.6935	1.69406			N/A
11/7/2018	EURNZD	3:30:00 PM	1.69364	1.69404			N/A
11/7/2018	EURPLN	9:30:00 AM	4.3045	4.3067			N/A
11/7/2018	EURPLN	11:30:00 AM	4.2958	4.299			N/A
11/7/2018	EURPLN	1:30:00 PM	4.2891	4.2914			N/A
11/7/2018	EURPLN	3:30:00 PM	4.2903	4.2932			N/A
11/7/2018	EURRUR	9:30:00 AM					N/A
11/7/2018	EURRUR	11:30:00 AM	75.547	75.956			N/A
11/7/2018	EURRUR	1:30:00 PM	75.382	75.818			N/A
11/7/2018	EURRUR	3:30:00 PM	75.464	75.907			N/A
11/7/2018	EURSEK	9:30:00 AM	10.3365	10.3399			N/A
11/7/2018	EURSEK	11:30:00 AM	10.3297	10.3318			N/A
11/7/2018	EURSEK	1:30:00 PM	10.3225	10.3274			N/A
11/7/2018	EURSEK	3:30:00 PM	10.3289	10.3321			N/A
11/7/2018	EURSGD	9:30:00 AM	1.5722	1.5724			N/A
11/7/2018	EURSGD	11:30:00 AM	1.5727	1.5733			N/A
11/7/2018	EURSGD	1:30:00 PM	1.5727	1.5735			N/A
11/7/2018	EURSGD	3:30:00 PM	1.5725	1.5733			N/A
11/7/2018	EURUSD	9:30:00 AM	1.14614	1.14544			N/A
11/7/2018	EURUSD	11:30:00 AM	1.14861	1.14851			N/A
11/7/2018	EURUSD	1:30:00 PM	1.1492	1.14917			N/A
11/7/2018	EURUSD	3:30:00 PM	1.14872	1.1487			N/A
11/7/2018	EURZAR	9:30:00 AM	16.1631	16.1584			N/A
11/7/2018	EURZAR	11:30:00 AM	16.0453	16.0607			N/A
11/7/2018	EURZAR	1:30:00 PM	16.0134	16.0293			N/A
11/7/2018	EURZAR	3:30:00 PM	16.0149	16.0266			N/A
11/7/2018	GBPAUD	9:30:00 AM	1.81077	1.81083			N/A
11/7/2018	GBPAUD	11:30:00 AM	1.80697	1.80719			N/A
11/7/2018	GBPAUD	1:30:00 PM	1.8044	1.80495			N/A
11/7/2018	GBPAUD	3:30:00 PM	1.80156	1.80222			N/A
11/7/2018	GBPCAD	9:30:00 AM	1.72357	1.72395			N/A
11/7/2018	GBPCAD	11:30:00 AM	1.7231	1.72379			N/A
11/7/2018	GBPCAD	1:30:00 PM	1.72121	1.72188			N/A
11/7/2018	GBPCAD	3:30:00 PM	1.71762	1.71766			N/A
11/7/2018	GBPCHF	9:30:00 AM	1.31335	1.3134			N/A
11/7/2018	GBPCHF	11:30:00 AM	1.31246	1.31259			N/A
11/7/2018	GBPCHF	1:30:00 PM	1.31032	1.31075			N/A
11/7/2018	GBPCHF	3:30:00 PM	1.30917	1.30984			N/A
11/7/2018	GBPCZK	9:30:00 AM	29.635	29.651			N/A
11/7/2018	GBPCZK	11:30:00 AM	29.611	29.631			N/A
11/7/2018	GBPCZK	1:30:00 PM	29.594	29.61			N/A
11/7/2018	GBPCZK	3:30:00 PM	29.603	29.618			N/A
11/7/2018	GBPDKK	9:30:00 AM	8.545	8.555			N/A
11/7/2018	GBPDKK	11:30:00 AM	8.54	8.551			N/A
11/7/2018	GBPDKK	1:30:00 PM	8.539	8.551			N/A
11/7/2018	GBPDKK	3:30:00 PM	8.533	8.545			N/A
11/7/2018	GBPHKD	9:30:00 AM	10.2849	10.2861			N/A

11/7/2018	GBPHKD	11:30:00 AM	10.3	10.3042			N/A
11/7/2018	GBPHKD	1:30:00 PM	10.3031	10.3077			N/A
11/7/2018	GBPHKD	3:30:00 PM	10.2903	10.2962			N/A
11/7/2018	GBPHUF	9:30:00 AM	368.52	368.91			N/A
11/7/2018	GBPHUF	11:30:00 AM	367.89	368.04			N/A
11/7/2018	GBPHUF	1:30:00 PM	367.94	368.35			N/A
11/7/2018	GBPHUF	3:30:00 PM	367.85	368.27			N/A
11/7/2018	GBPJPY	9:30:00 AM	148.445	148.459			N/A
11/7/2018	GBPJPY	11:30:00 AM	148.764	148.793			N/A
11/7/2018	GBPJPY	1:30:00 PM	148.807	148.839			N/A
11/7/2018	GBPJPY	3:30:00 PM	148.868	148.903			N/A
11/7/2018	GBPMXN	9:30:00 AM	25.8907	25.8886			N/A
11/7/2018	GBPMXN	11:30:00 AM	25.7828	25.7969			N/A
11/7/2018	GBPMXN	1:30:00 PM	25.8156	25.8289			N/A
11/7/2018	GBPMXN	3:30:00 PM	25.8844	25.8992			N/A
11/7/2018	GBPNOK	9:30:00 AM	10.9483	10.9582			N/A
11/7/2018	GBPNOK	11:30:00 AM	10.9315	10.9423			N/A
11/7/2018	GBPNOK	1:30:00 PM	10.9181	10.9298			N/A
11/7/2018	GBPNOK	3:30:00 PM	10.9015	10.9117			N/A
11/7/2018	GBPNZD	9:30:00 AM	1.94294	1.94333			N/A
11/7/2018	GBPNZD	11:30:00 AM	1.94158	1.94163			N/A
11/7/2018	GBPNZD	1:30:00 PM	1.93967	1.9402			N/A
11/7/2018	GBPNZD	3:30:00 PM	1.93837	1.9386			N/A
11/7/2018	GBPPLN	9:30:00 AM	4.9346	4.9348			N/A
11/7/2018	GBPPLN	11:30:00 AM	4.9218	4.9235			N/A
11/7/2018	GBPPLN	1:30:00 PM	4.9133	4.9142			N/A
11/7/2018	GBPPLN	3:30:00 PM	4.9112	4.9129			N/A
11/7/2018	GBPSEK	9:30:00 AM	11.8456	11.8511			N/A
11/7/2018	GBPSEK	11:30:00 AM	11.8309	11.8362			N/A
11/7/2018	GBPSEK	1:30:00 PM	11.8205	11.8298			N/A
11/7/2018	GBPSEK	3:30:00 PM	11.8185	11.8268			N/A
11/7/2018	GBPSGD	9:30:00 AM	1.8017	1.8021			N/A
11/7/2018	GBPSGD	11:30:00 AM	1.8016	1.8021			N/A
11/7/2018	GBPSGD	1:30:00 PM	1.8014	1.8021			N/A
11/7/2018	GBPSGD	3:30:00 PM	1.7998	1.8006			N/A
11/7/2018	GBPUSD	9:30:00 AM	1.31354	1.31304			N/A
11/7/2018	GBPUSD	11:30:00 AM	1.31585	1.31568			N/A
11/7/2018	GBPUSD	1:30:00 PM	1.3164	1.31634			N/A
11/7/2018	GBPUSD	3:30:00 PM	1.31482	1.31484			N/A
11/7/2018	GBPZAR	9:30:00 AM	18.5225	18.5218			N/A
11/7/2018	GBPZAR	11:30:00 AM	18.3755	18.4016			N/A
11/7/2018	GBPZAR	1:30:00 PM	18.3375	18.3625			N/A
11/7/2018	GBPZAR	3:30:00 PM	18.3253	18.3465			N/A
11/7/2018	GOLD	9:30:00 AM	1231.37	1230.96			N/A
11/7/2018	GOLD	11:30:00 AM	1233	1233.24			N/A
11/7/2018	GOLD	1:30:00 PM	1234.49	1234.23			N/A
11/7/2018	GOLD	3:30:00 PM	1231.31	1230.99			N/A
11/7/2018	HKDJPY	9:30:00 AM					N/A
11/7/2018	HKDJPY	11:30:00 AM					N/A
11/7/2018	HKDJPY	1:30:00 PM					N/A

11/7/2018	HKDJPY	3:30:00 PM					N/A
11/7/2018	HUFJPY	9:30:00 AM	0.4026	0.4029			N/A
11/7/2018	HUFJPY	11:30:00 AM	0.4044	0.4047			N/A
11/7/2018	HUFJPY	1:30:00 PM	0.4042	0.4045			N/A
11/7/2018	HUFJPY	3:30:00 PM	0.4045	0.4048			N/A
11/7/2018	MXNJPY	9:30:00 AM					N/A
11/7/2018	MXNJPY	11:30:00 AM					N/A
11/7/2018	MXNJPY	1:30:00 PM					N/A
11/7/2018	MXNJPY	3:30:00 PM					N/A
11/7/2018	NOKJPY	9:30:00 AM	13.55	13.59			N/A
11/7/2018	NOKJPY	11:30:00 AM					N/A
11/7/2018	NOKJPY	1:30:00 PM	13.62	13.65			N/A
11/7/2018	NOKJPY	3:30:00 PM					N/A
11/7/2018	NZDCAD	9:30:00 AM	0.88684	0.88738			N/A
11/7/2018	NZDCAD	11:30:00 AM	0.88738	0.88783			N/A
11/7/2018	NZDCAD	1:30:00 PM	0.88719	0.88772			N/A
11/7/2018	NZDCAD	3:30:00 PM	0.88583	0.88629			N/A
11/7/2018	NZDCHF	9:30:00 AM	0.67557	0.67616			N/A
11/7/2018	NZDCHF	11:30:00 AM	0.67567	0.67631			N/A
11/7/2018	NZDCHF	1:30:00 PM	0.67523	0.67583			N/A
11/7/2018	NZDCHF	3:30:00 PM	0.67529	0.67583			N/A
11/7/2018	NZDCZK	9:30:00 AM	15.25	15.258			N/A
11/7/2018	NZDCZK	11:30:00 AM	15.252	15.258			N/A
11/7/2018	NZDCZK	1:30:00 PM	15.254	15.263			N/A
11/7/2018	NZDCZK	3:30:00 PM	15.27	15.275			N/A
11/7/2018	NZDDKK	9:30:00 AM					N/A
11/7/2018	NZDDKK	11:30:00 AM	4.399	4.402			N/A
11/7/2018	NZDDKK	1:30:00 PM	4.402	4.406			N/A
11/7/2018	NZDDKK	3:30:00 PM	4.402	4.405			N/A
11/7/2018	NZDHKD	9:30:00 AM	5.2916	5.2936			N/A
11/7/2018	NZDHKD	11:30:00 AM	5.3039	5.3061			N/A
11/7/2018	NZDHKD	1:30:00 PM	5.3104	5.3117			N/A
11/7/2018	NZDHKD	3:30:00 PM	5.3079	5.3099			N/A
11/7/2018	NZDHUF	9:30:00 AM	189.61	189.85			N/A
11/7/2018	NZDHUF	11:30:00 AM	189.4	189.51			N/A
11/7/2018	NZDHUF	1:30:00 PM	189.62	189.89			N/A
11/7/2018	NZDHUF	3:30:00 PM	189.73	189.96			N/A
11/7/2018	NZDJPY	9:30:00 AM	76.369	76.429			N/A
11/7/2018	NZDJPY	11:30:00 AM	76.601	76.651			N/A
11/7/2018	NZDJPY	1:30:00 PM	76.684	76.747			N/A
11/7/2018	NZDJPY	3:30:00 PM	76.78	76.83			N/A
11/7/2018	NZDMXN	9:30:00 AM	13.3236	13.3208			N/A
11/7/2018	NZDMXN	11:30:00 AM	13.279	13.2819			N/A
11/7/2018	NZDMXN	1:30:00 PM	13.3054	13.311			N/A
11/7/2018	NZDMXN	3:30:00 PM	13.3527	13.3555			N/A
11/7/2018	NZDNOK	9:30:00 AM	5.6332	5.6354			N/A
11/7/2018	NZDNOK	11:30:00 AM	5.629	5.6314			N/A
11/7/2018	NZDNOK	1:30:00 PM	5.6263	5.63			N/A
11/7/2018	NZDNOK	3:30:00 PM	5.6221	5.6246			N/A
11/7/2018	NZDPLN	9:30:00 AM	2.5383	2.5395			N/A

11/7/2018	NZDPLN	11:30:00 AM	2.5333	2.5347			N/A
11/7/2018	NZDPLN	1:30:00 PM	2.5311	2.5324			N/A
11/7/2018	NZDPLN	3:30:00 PM	2.5319	2.5331			N/A
11/7/2018	NZDSEK	9:30:00 AM	6.0928	6.0971			N/A
11/7/2018	NZDSEK	11:30:00 AM	6.0891	6.0946			N/A
11/7/2018	NZDSEK	1:30:00 PM	6.0895	6.0963			N/A
11/7/2018	NZDSEK	3:30:00 PM	6.0929	6.0982			N/A
11/7/2018	NZDSGD	9:30:00 AM	0.9272	0.9278			N/A
11/7/2018	NZDSGD	11:30:00 AM	0.9278	0.9284			N/A
11/7/2018	NZDSGD	1:30:00 PM	0.9285	0.9292			N/A
11/7/2018	NZDSGD	3:30:00 PM	0.9285	0.9292			N/A
11/7/2018	NZDUSD	9:30:00 AM	0.67588	0.67562			N/A
11/7/2018	NZDUSD	11:30:00 AM	0.67763	0.67748			N/A
11/7/2018	NZDUSD	1:30:00 PM	0.67854	0.6784			N/A
11/7/2018	NZDUSD	3:30:00 PM	0.67823	0.67804			N/A
11/7/2018	NZDZAR	9:30:00 AM	9.5237	9.5273			N/A
11/7/2018	NZDZAR	11:30:00 AM	9.4584	9.4708			N/A
11/7/2018	NZDZAR	1:30:00 PM	9.4459	9.4614			N/A
11/7/2018	NZDZAR	3:30:00 PM	9.4459	9.4584			N/A
11/7/2018	SEKJPY	9:30:00 AM					N/A
11/7/2018	SEKJPY	11:30:00 AM	12.58	12.6			N/A
11/7/2018	SEKJPY	1:30:00 PM					N/A
11/7/2018	SEKJPY	3:30:00 PM	12.6	12.62			N/A
11/7/2018	SGDJPY	9:30:00 AM	82.37	82.38			N/A
11/7/2018	SGDJPY	11:30:00 AM	82.54	82.57			N/A
11/7/2018	SGDJPY	1:30:00 PM	82.58	82.6			N/A
11/7/2018	SGDJPY	3:30:00 PM	82.68	82.7			N/A
11/7/2018	SILVER	9:30:00 AM	14.41	14.77			N/A
11/7/2018	SILVER	11:30:00 AM	14.48	14.87			N/A
11/7/2018	SILVER	1:30:00 PM	14.51	14.87			N/A
11/7/2018	SILVER	3:30:00 PM	14.48	14.84			N/A
11/7/2018	USDCAD	9:30:00 AM	1.3126	1.31248			N/A
11/7/2018	USDCAD	11:30:00 AM	1.30984	1.30986			N/A
11/7/2018	USDCAD	1:30:00 PM	1.3079	1.30785			N/A
11/7/2018	USDCAD	3:30:00 PM	1.3066	1.30617			N/A
11/7/2018	USDCHF	9:30:00 AM	1.00005	0.99989			N/A
11/7/2018	USDCHF	11:30:00 AM	0.99753	0.99749			N/A
11/7/2018	USDCHF	1:30:00 PM	0.99553	0.99558			N/A
11/7/2018	USDCHF	3:30:00 PM	0.99568	0.9963			N/A
11/7/2018	USDCZK	9:30:00 AM	22.569	22.579			N/A
11/7/2018	USDCZK	11:30:00 AM	22.503	22.524			N/A
11/7/2018	USDCZK	1:30:00 PM	22.479	22.501			N/A
11/7/2018	USDCZK	3:30:00 PM	22.512	22.532			N/A
11/7/2018	USDDKK	9:30:00 AM	6.5116	6.5126			N/A
11/7/2018	USDDKK	11:30:00 AM	6.4942	6.4987			N/A
11/7/2018	USDDKK	1:30:00 PM	6.4912	6.496			N/A
11/7/2018	USDDKK	3:30:00 PM	6.4939	6.4989			N/A
11/7/2018	USDHKD	9:30:00 AM	7.8324	7.8327			N/A
11/7/2018	USDHKD	11:30:00 AM					N/A
11/7/2018	USDHKD	1:30:00 PM					N/A

11/7/2018	USDHKD	3:30:00 PM	7.8295	7.8299			N/A
11/7/2018	USDHUF	9:30:00 AM	280.72	281.01			N/A
11/7/2018	USDHUF	11:30:00 AM	279.68	280.11			N/A
11/7/2018	USDHUF	1:30:00 PM	279.59	280.01			N/A
11/7/2018	USDHUF	3:30:00 PM	279.83	280.22			N/A
11/7/2018	USDJPY	9:30:00 AM	113.075	113.011			N/A
11/7/2018	USDJPY	11:30:00 AM	113.081	113.07			N/A
11/7/2018	USDJPY	1:30:00 PM	113.073	113.054			N/A
11/7/2018	USDJPY	3:30:00 PM	113.253	113.238			N/A
11/7/2018	USDMXN	9:30:00 AM	19.722	19.715			N/A
11/7/2018	USDMXN	11:30:00 AM	19.602	19.609			N/A
11/7/2018	USDMXN	1:30:00 PM	19.621	19.624			N/A
11/7/2018	USDMXN	3:30:00 PM	19.694	19.702			N/A
11/7/2018	USDNOK	9:30:00 AM	8.3392	8.3427			N/A
11/7/2018	USDNOK	11:30:00 AM	8.3091	8.3168			N/A
11/7/2018	USDNOK	1:30:00 PM	8.2956	8.304			N/A
11/7/2018	USDNOK	3:30:00 PM	8.2921	8.3002			N/A
11/7/2018	USDPLN	9:30:00 AM	3.7582	3.7564			N/A
11/7/2018	USDPLN	11:30:00 AM	3.7405	3.7419			N/A
11/7/2018	USDPLN	1:30:00 PM	3.7326	3.7333			N/A
11/7/2018	USDPLN	3:30:00 PM	3.7352	3.7364			N/A
11/7/2018	USDRUR	9:30:00 AM					N/A
11/7/2018	USDRUR	11:30:00 AM	65.826	66.204			N/A
11/7/2018	USDRUR	1:30:00 PM	65.654	66.049			N/A
11/7/2018	USDRUR	3:30:00 PM	65.756	66.154			N/A
11/7/2018	USDSEK	9:30:00 AM	9.0212	9.0186			N/A
11/7/2018	USDSEK	11:30:00 AM	8.9909	8.9936			N/A
11/7/2018	USDSEK	1:30:00 PM	8.9802	8.984			N/A
11/7/2018	USDSEK	3:30:00 PM	8.9885	8.9926			N/A
11/7/2018	USDSGD	9:30:00 AM	1.3718	1.372			N/A
11/7/2018	USDSGD	11:30:00 AM	1.3693	1.3696			N/A
11/7/2018	USDSGD	1:30:00 PM	1.3685	1.3689			N/A
11/7/2018	USDSGD	3:30:00 PM	1.3689	1.3693			N/A
11/7/2018	USDZAR	9:30:00 AM	14.1066	14.0992			N/A
11/7/2018	USDZAR	11:30:00 AM	13.9683	13.9822			N/A
11/7/2018	USDZAR	1:30:00 PM	13.9333	13.9471			N/A
11/7/2018	USDZAR	3:30:00 PM	13.9405	13.9516			N/A
11/7/2018	XAUUSD	9:30:00 AM	1231.37	1230.96			N/A
11/7/2018	XAUUSD	11:30:00 AM	1233	1233.24			N/A
11/7/2018	XAUUSD	1:30:00 PM	1234.49	1234.23			N/A
11/7/2018	XAUUSD	3:30:00 PM	1231.31	1231.02			N/A
11/7/2018	ZARJPY	9:30:00 AM	7.97	7.98			N/A
11/7/2018	ZARJPY	11:30:00 AM					N/A
11/7/2018	ZARJPY	1:30:00 PM					N/A
11/7/2018	ZARJPY	3:30:00 PM					N/A
11/8/2018	#AA	9:30:00 AM					N/A
11/8/2018	#AA	11:30:00 AM					N/A
11/8/2018	#AA	1:30:00 PM					N/A
11/8/2018	#AA	3:30:00 PM					N/A
11/8/2018	#AABA	9:30:00 AM					N/A

11/8/2018	#AABA	11:30:00 AM					N/A
11/8/2018	#AABA	1:30:00 PM					N/A
11/8/2018	#AABA	3:30:00 PM					N/A
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11/8/2018	#UBS	11:30:00 AM					N/A
11/8/2018	#UBS	1:30:00 PM					N/A
11/8/2018	#UBS	3:30:00 PM					N/A
11/8/2018	#UL	9:30:00 AM					N/A
11/8/2018	#UL	11:30:00 AM					N/A
11/8/2018	#UL	1:30:00 PM					N/A
11/8/2018	#UL	3:30:00 PM					N/A
11/8/2018	#UPS	9:30:00 AM					N/A
11/8/2018	#UPS	11:30:00 AM					N/A
11/8/2018	#UPS	1:30:00 PM					N/A
11/8/2018	#UPS	3:30:00 PM					N/A
11/8/2018	#UTX	9:30:00 AM					N/A
11/8/2018	#UTX	11:30:00 AM					N/A
11/8/2018	#UTX	1:30:00 PM					N/A
11/8/2018	#UTX	3:30:00 PM					N/A
11/8/2018	#V	9:30:00 AM					N/A
11/8/2018	#V	11:30:00 AM					N/A
11/8/2018	#V	1:30:00 PM					N/A
11/8/2018	#V	3:30:00 PM					N/A
11/8/2018	#VOD	9:30:00 AM					N/A
11/8/2018	#VOD	11:30:00 AM					N/A
11/8/2018	#VOD	1:30:00 PM					N/A
11/8/2018	#VOD	3:30:00 PM					N/A
11/8/2018	#VZ	9:30:00 AM					N/A
11/8/2018	#VZ	11:30:00 AM					N/A
11/8/2018	#VZ	1:30:00 PM					N/A
11/8/2018	#VZ	3:30:00 PM					N/A
11/8/2018	#WDC	9:30:00 AM					N/A
11/8/2018	#WDC	11:30:00 AM					N/A
11/8/2018	#WDC	1:30:00 PM					N/A
11/8/2018	#WDC	3:30:00 PM					N/A
11/8/2018	#WFC	9:30:00 AM					N/A
11/8/2018	#WFC	11:30:00 AM					N/A
11/8/2018	#WFC	1:30:00 PM					N/A
11/8/2018	#WFC	3:30:00 PM					N/A
11/8/2018	#WMT	9:30:00 AM					N/A
11/8/2018	#WMT	11:30:00 AM					N/A
11/8/2018	#WMT	1:30:00 PM					N/A
11/8/2018	#WMT	3:30:00 PM					N/A
11/8/2018	#XOM	9:30:00 AM					N/A

11/8/2018	#XOM	11:30:00 AM					N/A
11/8/2018	#XOM	1:30:00 PM					N/A
11/8/2018	#XOM	3:30:00 PM					N/A
11/8/2018	#YHOO	9:30:00 AM					N/A
11/8/2018	#YHOO	11:30:00 AM					N/A
11/8/2018	#YHOO	1:30:00 PM					N/A
11/8/2018	#YHOO	3:30:00 PM					N/A
11/8/2018	#ZNGA	9:30:00 AM					N/A
11/8/2018	#ZNGA	11:30:00 AM					N/A
11/8/2018	#ZNGA	1:30:00 PM					N/A
11/8/2018	#ZNGA	3:30:00 PM					N/A
11/8/2018	AUDCAD	9:30:00 AM	0.95494	0.95558			N/A
11/8/2018	AUDCAD	11:30:00 AM	0.95392	0.95443			N/A
11/8/2018	AUDCAD	1:30:00 PM	0.95385	0.95446			N/A
11/8/2018	AUDCAD	3:30:00 PM	0.95537	0.95598			N/A
11/8/2018	AUDCHF	9:30:00 AM	0.73006	0.73063			N/A
11/8/2018	AUDCHF	11:30:00 AM	0.73025	0.73082			N/A
11/8/2018	AUDCHF	1:30:00 PM	0.73012	0.73063			N/A
11/8/2018	AUDCHF	3:30:00 PM	0.73075	0.73142			N/A
11/8/2018	AUDCZK	9:30:00 AM	16.486	16.502			N/A
11/8/2018	AUDCZK	11:30:00 AM	16.481	16.497			N/A
11/8/2018	AUDCZK	1:30:00 PM	16.497	16.51			N/A
11/8/2018	AUDCZK	3:30:00 PM	16.503	16.52			N/A
11/8/2018	AUDDKK	9:30:00 AM	4.7553	4.7595			N/A
11/8/2018	AUDDKK	11:30:00 AM	4.757	4.761			N/A
11/8/2018	AUDDKK	1:30:00 PM	4.7572	4.761			N/A
11/8/2018	AUDDKK	3:30:00 PM	4.7577	4.7621			N/A
11/8/2018	AUDHKD	9:30:00 AM	5.7032	5.7061			N/A
11/8/2018	AUDHKD	11:30:00 AM	5.7011	5.7036			N/A
11/8/2018	AUDHKD	1:30:00 PM	5.6975	5.7013			N/A
11/8/2018	AUDHKD	3:30:00 PM	5.7046	5.7085			N/A
11/8/2018	AUDHUF	9:30:00 AM	204.94	205.13			N/A
11/8/2018	AUDHUF	11:30:00 AM	204.94	205.04			N/A
11/8/2018	AUDHUF	1:30:00 PM	205.01	205.21			N/A
11/8/2018	AUDHUF	3:30:00 PM	204.85	205.06			N/A
11/8/2018	AUDJPY	9:30:00 AM	82.799	82.85			N/A
11/8/2018	AUDJPY	11:30:00 AM	82.83	82.885			N/A
11/8/2018	AUDJPY	1:30:00 PM	82.79	82.85			N/A
11/8/2018	AUDJPY	3:30:00 PM	82.879	82.939			N/A
11/8/2018	AUDMXN	9:30:00 AM	14.4676	14.4754			N/A
11/8/2018	AUDMXN	11:30:00 AM	14.4878	14.4957			N/A
11/8/2018	AUDMXN	1:30:00 PM	14.48	14.4858			N/A
11/8/2018	AUDMXN	3:30:00 PM	14.4927	14.4963			N/A
11/8/2018	AUDNOK	9:30:00 AM	6.076	6.081			N/A
11/8/2018	AUDNOK	11:30:00 AM	6.071	6.0756			N/A
11/8/2018	AUDNOK	1:30:00 PM	6.0683	6.0742			N/A
11/8/2018	AUDNOK	3:30:00 PM	6.0643	6.0695			N/A
11/8/2018	AUDNZD	9:30:00 AM	1.07261	1.07332			N/A
11/8/2018	AUDNZD	11:30:00 AM	1.07411	1.07462			N/A
11/8/2018	AUDNZD	1:30:00 PM	1.07454	1.07522			N/A

11/8/2018	AUDNZD	3:30:00 PM	1.07415	1.07481			N/A
11/8/2018	AUDPLN	9:30:00 AM	2.736	2.7389			N/A
11/8/2018	AUDPLN	11:30:00 AM	2.7376	2.7404			N/A
11/8/2018	AUDPLN	1:30:00 PM	2.7383	2.7406			N/A
11/8/2018	AUDPLN	3:30:00 PM	2.7352	2.7384			N/A
11/8/2018	AUDSEK	9:30:00 AM	6.5689	6.5714			N/A
11/8/2018	AUDSEK	11:30:00 AM	6.5478	6.5498			N/A
11/8/2018	AUDSEK	1:30:00 PM	6.5402	6.5435			N/A
11/8/2018	AUDSEK	3:30:00 PM	6.5423	6.5447			N/A
11/8/2018	AUDSGD	9:30:00 AM	0.9991	0.9993			N/A
11/8/2018	AUDSGD	11:30:00 AM	0.9989	0.9991			N/A
11/8/2018	AUDSGD	1:30:00 PM	0.9988	0.9991			N/A
11/8/2018	AUDSGD	3:30:00 PM	0.9996	1			N/A
11/8/2018	AUDUSD	9:30:00 AM	0.72863	0.72857			N/A
11/8/2018	AUDUSD	11:30:00 AM	0.7289	0.72876			N/A
11/8/2018	AUDUSD	1:30:00 PM	0.72839	0.72827			N/A
11/8/2018	AUDUSD	3:30:00 PM	0.72926	0.72925			N/A
11/8/2018	AUDZAR	9:30:00 AM	10.1759	10.1868			N/A
11/8/2018	AUDZAR	11:30:00 AM	10.1834	10.1931			N/A
11/8/2018	AUDZAR	1:30:00 PM	10.1869	10.2012			N/A
11/8/2018	AUDZAR	3:30:00 PM	10.1954	10.2069			N/A
11/8/2018	CADCHF	9:30:00 AM	0.76418	0.76489			N/A
11/8/2018	CADCHF	11:30:00 AM	0.7653	0.76594			N/A
11/8/2018	CADCHF	1:30:00 PM	0.76518	0.76577			N/A
11/8/2018	CADCHF	3:30:00 PM	0.76464	0.76535			N/A
11/8/2018	CADCZK	9:30:00 AM	17.262	17.279			N/A
11/8/2018	CADCZK	11:30:00 AM	17.277	17.292			N/A
11/8/2018	CADCZK	1:30:00 PM	17.293	17.307			N/A
11/8/2018	CADCZK	3:30:00 PM	17.276	17.29			N/A
11/8/2018	CADDKK	9:30:00 AM					N/A
11/8/2018	CADDKK	11:30:00 AM	4.987	4.99			N/A
11/8/2018	CADDKK	1:30:00 PM					N/A
11/8/2018	CADDKK	3:30:00 PM					N/A
11/8/2018	CADHKD	9:30:00 AM	5.971	5.9749			N/A
11/8/2018	CADHKD	11:30:00 AM	5.9762	5.9788			N/A
11/8/2018	CADHKD	1:30:00 PM	5.9726	5.9765			N/A
11/8/2018	CADHKD	3:30:00 PM	5.97	5.9737			N/A
11/8/2018	CADHUF	9:30:00 AM	214.61	214.75			N/A
11/8/2018	CADHUF	11:30:00 AM	214.88	214.92			N/A
11/8/2018	CADHUF	1:30:00 PM	214.92	215.07			N/A
11/8/2018	CADHUF	3:30:00 PM	214.47	214.58			N/A
11/8/2018	CADJPY	9:30:00 AM	86.672	86.738			N/A
11/8/2018	CADJPY	11:30:00 AM	86.806	86.865			N/A
11/8/2018	CADJPY	1:30:00 PM	86.768	86.826			N/A
11/8/2018	CADJPY	3:30:00 PM	86.719	86.791			N/A
11/8/2018	CADMXN	9:30:00 AM	15.1497	15.1563			N/A
11/8/2018	CADMXN	11:30:00 AM	15.1876	15.1949			N/A
11/8/2018	CADMXN	1:30:00 PM	15.1796	15.1852			N/A
11/8/2018	CADMXN	3:30:00 PM	15.1705	15.1749			N/A
11/8/2018	CADNOK	9:30:00 AM	6.3622	6.367			N/A

11/8/2018	CADNOK	11:30:00 AM	6.3642	6.3684			N/A
11/8/2018	CADNOK	1:30:00 PM	6.3616	6.3665			N/A
11/8/2018	CADNOK	3:30:00 PM	6.3486	6.3529			N/A
11/8/2018	CADPLN	9:30:00 AM	2.8648	2.8666			N/A
11/8/2018	CADPLN	11:30:00 AM	2.8692	2.8711			N/A
11/8/2018	CADPLN	1:30:00 PM	2.8699	2.8716			N/A
11/8/2018	CADPLN	3:30:00 PM	2.8632	2.865			N/A
11/8/2018	CADSEK	9:30:00 AM	6.8763	6.8802			N/A
11/8/2018	CADSEK	11:30:00 AM	6.8619	6.8647			N/A
11/8/2018	CADSEK	1:30:00 PM	6.8539	6.8576			N/A
11/8/2018	CADSEK	3:30:00 PM	6.8458	6.8486			N/A
11/8/2018	CADSGD	9:30:00 AM					N/A
11/8/2018	CADSGD	11:30:00 AM	1.0468	1.0472			N/A
11/8/2018	CADSGD	1:30:00 PM	1.047	1.0473			N/A
11/8/2018	CADSGD	3:30:00 PM	1.0462	1.0465			N/A
11/8/2018	CADZAR	9:30:00 AM	10.6467	10.663			N/A
11/8/2018	CADZAR	11:30:00 AM	10.6677	10.683			N/A
11/8/2018	CADZAR	1:30:00 PM	10.6732	10.6891			N/A
11/8/2018	CADZAR	3:30:00 PM	10.6649	10.6804			N/A
11/8/2018	CHFCZK	9:30:00 AM	22.584	22.601			N/A
11/8/2018	CHFCZK	11:30:00 AM	22.569	22.585			N/A
11/8/2018	CHFCZK	1:30:00 PM	22.597	22.61			N/A
11/8/2018	CHFCZK	3:30:00 PM	22.587	22.6			N/A
11/8/2018	CHFDKK	9:30:00 AM					N/A
11/8/2018	CHFDKK	11:30:00 AM					N/A
11/8/2018	CHFDKK	1:30:00 PM	6.515	6.519			N/A
11/8/2018	CHFDKK	3:30:00 PM					N/A
11/8/2018	CHFHKD	9:30:00 AM	7.8108	7.8146			N/A
11/8/2018	CHFHKD	11:30:00 AM	7.8061	7.8099			N/A
11/8/2018	CHFHKD	1:30:00 PM	7.8044	7.8074			N/A
11/8/2018	CHFHKD	3:30:00 PM	7.8057	7.8096			N/A
11/8/2018	CHFHUF	9:30:00 AM	280.67	281.02			N/A
11/8/2018	CHFHUF	11:30:00 AM	280.58	280.77			N/A
11/8/2018	CHFHUF	1:30:00 PM	280.73	281.07			N/A
11/8/2018	CHFHUF	3:30:00 PM	280.3	280.6			N/A
11/8/2018	CHFJPY	9:30:00 AM	113.377	113.405			N/A
11/8/2018	CHFJPY	11:30:00 AM	113.387	113.41			N/A
11/8/2018	CHFJPY	1:30:00 PM	113.367	113.397			N/A
11/8/2018	CHFJPY	3:30:00 PM	113.371	113.398			N/A
11/8/2018	CHFMXN	9:30:00 AM	19.8165	19.8246			N/A
11/8/2018	CHFMXN	11:30:00 AM	19.8353	19.8516			N/A
11/8/2018	CHFMXN	1:30:00 PM	19.8309	19.8386			N/A
11/8/2018	CHFMXN	3:30:00 PM	19.8282	19.8385			N/A
11/8/2018	CHFNOK	9:30:00 AM	8.3212	8.3289			N/A
11/8/2018	CHFNOK	11:30:00 AM	8.3124	8.3196			N/A
11/8/2018	CHFNOK	1:30:00 PM	8.3111	8.3183			N/A
11/8/2018	CHFNOK	3:30:00 PM	8.299	8.3058			N/A
11/8/2018	CHFPLN	9:30:00 AM	3.7469	3.7499			N/A
11/8/2018	CHFPLN	11:30:00 AM	3.7477	3.7509			N/A
11/8/2018	CHFPLN	1:30:00 PM	3.7498	3.7516			N/A

11/8/2018	CHFPLN	3:30:00 PM	3.7423	3.7452			N/A
11/8/2018	CHFSEK	9:30:00 AM	8.9968	9.0006			N/A
11/8/2018	CHFSEK	11:30:00 AM	8.9647	8.9683			N/A
11/8/2018	CHFSEK	1:30:00 PM	8.9566	8.9597			N/A
11/8/2018	CHFSEK	3:30:00 PM	8.9511	8.9535			N/A
11/8/2018	CHFSGD	9:30:00 AM	1.368	1.3685			N/A
11/8/2018	CHFSGD	11:30:00 AM	1.3674	1.3678			N/A
11/8/2018	CHFSGD	1:30:00 PM	1.3677	1.3681			N/A
11/8/2018	CHFSGD	3:30:00 PM	1.3673	1.3679			N/A
11/8/2018	CHFZAR	9:30:00 AM	13.9329	13.9441			N/A
11/8/2018	CHFZAR	11:30:00 AM	13.9375	13.9497			N/A
11/8/2018	CHFZAR	1:30:00 PM	13.9497	13.9626			N/A
11/8/2018	CHFZAR	3:30:00 PM	13.9465	13.9586			N/A
11/8/2018	CZKJPY	9:30:00 AM	5.019	5.023			N/A
11/8/2018	CZKJPY	11:30:00 AM					N/A
11/8/2018	CZKJPY	1:30:00 PM	5.016	5.02			N/A
11/8/2018	CZKJPY	3:30:00 PM	5.019	5.023			N/A
11/8/2018	DKKJPY	9:30:00 AM					N/A
11/8/2018	DKKJPY	11:30:00 AM					N/A
11/8/2018	DKKJPY	1:30:00 PM					N/A
11/8/2018	DKKJPY	3:30:00 PM	17.42	17.44			N/A
11/8/2018	EURAUD	9:30:00 AM	1.56781	1.56755			N/A
11/8/2018	EURAUD	11:30:00 AM	1.56723	1.56702			N/A
11/8/2018	EURAUD	1:30:00 PM	1.56714	1.56684			N/A
11/8/2018	EURAUD	3:30:00 PM	1.56694	1.56676			N/A
11/8/2018	EURCAD	9:30:00 AM	1.49772	1.49825			N/A
11/8/2018	EURCAD	11:30:00 AM	1.4956	1.49601			N/A
11/8/2018	EURCAD	1:30:00 PM	1.49556	1.4959			N/A
11/8/2018	EURCAD	3:30:00 PM	1.49769	1.49796			N/A
11/8/2018	EURCHF	9:30:00 AM	1.14509	1.14517			N/A
11/8/2018	EURCHF	11:30:00 AM	1.14508	1.14518			N/A
11/8/2018	EURCHF	1:30:00 PM	1.1448	1.14478			N/A
11/8/2018	EURCHF	3:30:00 PM	1.14544	1.14596			N/A
11/8/2018	EURCZK	9:30:00 AM	25.85	25.89			N/A
11/8/2018	EURCZK	11:30:00 AM	25.835	25.874			N/A
11/8/2018	EURCZK	1:30:00 PM	25.857	25.894			N/A
11/8/2018	EURCZK	3:30:00 PM	25.866	25.904			N/A
11/8/2018	EURDKK	9:30:00 AM	7.4591	7.46			N/A
11/8/2018	EURDKK	11:30:00 AM	7.4589	7.4602			N/A
11/8/2018	EURDKK	1:30:00 PM	7.4589	7.4598			N/A
11/8/2018	EURDKK	3:30:00 PM	7.4589	7.4602			N/A
11/8/2018	EURGBP	9:30:00 AM	0.87092	0.87098			N/A
11/8/2018	EURGBP	11:30:00 AM	0.87044	0.87055			N/A
11/8/2018	EURGBP	1:30:00 PM	0.8716	0.87171			N/A
11/8/2018	EURGBP	3:30:00 PM	0.87209	0.87212			N/A
11/8/2018	EURHKD	9:30:00 AM	8.9431	8.9479			N/A
11/8/2018	EURHKD	11:30:00 AM	8.9383	8.9428			N/A
11/8/2018	EURHKD	1:30:00 PM	8.9336	8.9361			N/A
11/8/2018	EURHKD	3:30:00 PM	8.9424	8.9462			N/A
11/8/2018	EURHUF	9:30:00 AM	321.26	321.97			N/A

11/8/2018	EURHUF	11:30:00 AM	321.18	321.9			N/A
11/8/2018	EURHUF	1:30:00 PM	321.27	321.9			N/A
11/8/2018	EURHUF	3:30:00 PM	320.99	321.68			N/A
11/8/2018	EURJPY	9:30:00 AM	129.871	129.86			N/A
11/8/2018	EURJPY	11:30:00 AM	129.875	129.862			N/A
11/8/2018	EURJPY	1:30:00 PM	129.819	129.786			N/A
11/8/2018	EURJPY	3:30:00 PM	129.938	129.905			N/A
11/8/2018	EURMXN	9:30:00 AM	22.6949	22.7067			N/A
11/8/2018	EURMXN	11:30:00 AM	22.7147	22.7324			N/A
11/8/2018	EURMXN	1:30:00 PM	22.6999	22.711			N/A
11/8/2018	EURMXN	3:30:00 PM	22.7201	22.7297			N/A
11/8/2018	EURNOK	9:30:00 AM	9.5273	9.5394			N/A
11/8/2018	EURNOK	11:30:00 AM	9.517	9.5288			N/A
11/8/2018	EURNOK	1:30:00 PM	9.5129	9.5244			N/A
11/8/2018	EURNOK	3:30:00 PM	9.5055	9.5178			N/A
11/8/2018	EURNZD	9:30:00 AM	1.6822	1.68288			N/A
11/8/2018	EURNZD	11:30:00 AM	1.68383	1.68462			N/A
11/8/2018	EURNZD	1:30:00 PM	1.68469	1.68505			N/A
11/8/2018	EURNZD	3:30:00 PM	1.68367	1.68426			N/A
11/8/2018	EURPLN	9:30:00 AM	4.291	4.294			N/A
11/8/2018	EURPLN	11:30:00 AM	4.2915	4.2949			N/A
11/8/2018	EURPLN	1:30:00 PM	4.2925	4.2944			N/A
11/8/2018	EURPLN	3:30:00 PM	4.2874	4.2906			N/A
11/8/2018	EURRUR	9:30:00 AM					N/A
11/8/2018	EURRUR	11:30:00 AM	75.382	75.801			N/A
11/8/2018	EURRUR	1:30:00 PM	75.488	75.906			N/A
11/8/2018	EURRUR	3:30:00 PM	75.57	75.985			N/A
11/8/2018	EURSEK	9:30:00 AM	10.3012	10.3063			N/A
11/8/2018	EURSEK	11:30:00 AM	10.2646	10.2675			N/A
11/8/2018	EURSEK	1:30:00 PM	10.2532	10.2565			N/A
11/8/2018	EURSEK	3:30:00 PM	10.2539	10.2577			N/A
11/8/2018	EURSGD	9:30:00 AM	1.5665	1.5672			N/A
11/8/2018	EURSGD	11:30:00 AM	1.5657	1.5664			N/A
11/8/2018	EURSGD	1:30:00 PM	1.5656	1.5662			N/A
11/8/2018	EURSGD	3:30:00 PM	1.5666	1.5672			N/A
11/8/2018	EURUSD	9:30:00 AM	1.14226	1.14223			N/A
11/8/2018	EURUSD	11:30:00 AM	1.14219	1.14219			N/A
11/8/2018	EURUSD	1:30:00 PM	1.1415	1.14127			N/A
11/8/2018	EURUSD	3:30:00 PM	1.14274	1.14256			N/A
11/8/2018	EURZAR	9:30:00 AM	15.958	15.972			N/A
11/8/2018	EURZAR	11:30:00 AM	15.9625	15.9769			N/A
11/8/2018	EURZAR	1:30:00 PM	15.97	15.9858			N/A
11/8/2018	EURZAR	3:30:00 PM	15.9813	15.9965			N/A
11/8/2018	GBPAUD	9:30:00 AM	1.80015	1.80054			N/A
11/8/2018	GBPAUD	11:30:00 AM	1.80044	1.8009			N/A
11/8/2018	GBPAUD	1:30:00 PM	1.79799	1.79833			N/A
11/8/2018	GBPAUD	3:30:00 PM	1.79674	1.79739			N/A
11/8/2018	GBPCAD	9:30:00 AM	1.71947	1.72015			N/A
11/8/2018	GBPCAD	11:30:00 AM	1.71788	1.71853			N/A
11/8/2018	GBPCAD	1:30:00 PM	1.71547	1.71602			N/A

11/8/2018	GBPCAD	3:30:00 PM	1.71712	1.7176			N/A
11/8/2018	GBPCHF	9:30:00 AM	1.31461	1.31506			N/A
11/8/2018	GBPCHF	11:30:00 AM	1.31525	1.3157			N/A
11/8/2018	GBPCHF	1:30:00 PM	1.31324	1.31352			N/A
11/8/2018	GBPCHF	3:30:00 PM	1.31342	1.3141			N/A
11/8/2018	GBPCZK	9:30:00 AM	29.687	29.709			N/A
11/8/2018	GBPCZK	11:30:00 AM	29.682	29.705			N/A
11/8/2018	GBPCZK	1:30:00 PM	29.668	29.69			N/A
11/8/2018	GBPCZK	3:30:00 PM	29.665	29.684			N/A
11/8/2018	GBPDKK	9:30:00 AM	8.561	8.572			N/A
11/8/2018	GBPDKK	11:30:00 AM	8.565	8.577			N/A
11/8/2018	GBPDKK	1:30:00 PM	8.553	8.565			N/A
11/8/2018	GBPDKK	3:30:00 PM	8.549	8.561			N/A
11/8/2018	GBPHKD	9:30:00 AM	10.2673	10.2725			N/A
11/8/2018	GBPHKD	11:30:00 AM	10.2664	10.2715			N/A
11/8/2018	GBPHKD	1:30:00 PM	10.2475	10.2501			N/A
11/8/2018	GBPHKD	3:30:00 PM	10.2528	10.2571			N/A
11/8/2018	GBPHUF	9:30:00 AM	368.94	369.39			N/A
11/8/2018	GBPHUF	11:30:00 AM	369.03	369.28			N/A
11/8/2018	GBPHUF	1:30:00 PM	368.57	368.96			N/A
11/8/2018	GBPHUF	3:30:00 PM	368.12	368.56			N/A
11/8/2018	GBPJPY	9:30:00 AM	149.099	149.138			N/A
11/8/2018	GBPJPY	11:30:00 AM	149.177	149.224			N/A
11/8/2018	GBPJPY	1:30:00 PM	148.914	148.929			N/A
11/8/2018	GBPJPY	3:30:00 PM	148.984	148.998			N/A
11/8/2018	GBPMXN	9:30:00 AM	26.0537	26.0577			N/A
11/8/2018	GBPMXN	11:30:00 AM	26.0891	26.1056			N/A
11/8/2018	GBPMXN	1:30:00 PM	26.0376	26.0444			N/A
11/8/2018	GBPMXN	3:30:00 PM	26.0486	26.0506			N/A
11/8/2018	GBPNOK	9:30:00 AM	10.9412	10.9516			N/A
11/8/2018	GBPNOK	11:30:00 AM	10.9341	10.945			N/A
11/8/2018	GBPNOK	1:30:00 PM	10.915	10.9255			N/A
11/8/2018	GBPNOK	3:30:00 PM	10.9012	10.9124			N/A
11/8/2018	GBPNZD	9:30:00 AM	1.93166	1.93212			N/A
11/8/2018	GBPNZD	11:30:00 AM	1.93438	1.93515			N/A
11/8/2018	GBPNZD	1:30:00 PM	1.93278	1.93309			N/A
11/8/2018	GBPNZD	3:30:00 PM	1.93077	1.93127			N/A
11/8/2018	GBPPLN	9:30:00 AM	4.9278	4.9295			N/A
11/8/2018	GBPPLN	11:30:00 AM	4.931	4.933			N/A
11/8/2018	GBPPLN	1:30:00 PM	4.9253	4.9259			N/A
11/8/2018	GBPPLN	3:30:00 PM	4.9173	4.919			N/A
11/8/2018	GBPSEK	9:30:00 AM	11.8269	11.835			N/A
11/8/2018	GBPSEK	11:30:00 AM	11.7891	11.7978			N/A
11/8/2018	GBPSEK	1:30:00 PM	11.7606	11.7686			N/A
11/8/2018	GBPSEK	3:30:00 PM	11.7559	11.7644			N/A
11/8/2018	GBPSGD	9:30:00 AM	1.7987	1.7994			N/A
11/8/2018	GBPSGD	11:30:00 AM	1.7986	1.7994			N/A
11/8/2018	GBPSGD	1:30:00 PM	1.7961	1.7967			N/A
11/8/2018	GBPSGD	3:30:00 PM	1.7965	1.7971			N/A
11/8/2018	GBPUSD	9:30:00 AM	1.31168	1.31168			N/A

11/8/2018	GBPUSD	11:30:00 AM	1.31222	1.3123			N/A
11/8/2018	GBPUSD	1:30:00 PM	1.30973	1.30949			N/A
11/8/2018	GBPUSD	3:30:00 PM	1.3105	1.31033			N/A
11/8/2018	GBPZAR	9:30:00 AM	18.3217	18.3412			N/A
11/8/2018	GBPZAR	11:30:00 AM	18.3328	18.3569			N/A
11/8/2018	GBPZAR	1:30:00 PM	18.3183	18.3427			N/A
11/8/2018	GBPZAR	3:30:00 PM	18.3223	18.3461			N/A
11/8/2018	GOLD	9:30:00 AM	1223.94	1224.13			N/A
11/8/2018	GOLD	11:30:00 AM	1223.69	1223.78			N/A
11/8/2018	GOLD	1:30:00 PM	1222.54	1222.53			N/A
11/8/2018	GOLD	3:30:00 PM	1224.03	1224.01			N/A
11/8/2018	HKDJPY	9:30:00 AM					N/A
11/8/2018	HKDJPY	11:30:00 AM					N/A
11/8/2018	HKDJPY	1:30:00 PM					N/A
11/8/2018	HKDJPY	3:30:00 PM					N/A
11/8/2018	HUFJPY	9:30:00 AM	0.404	0.4043			N/A
11/8/2018	HUFJPY	11:30:00 AM	0.4041	0.4044			N/A
11/8/2018	HUFJPY	1:30:00 PM	0.4039	0.4042			N/A
11/8/2018	HUFJPY	3:30:00 PM	0.4046	0.4049			N/A
11/8/2018	MXNJPY	9:30:00 AM					N/A
11/8/2018	MXNJPY	11:30:00 AM					N/A
11/8/2018	MXNJPY	1:30:00 PM					N/A
11/8/2018	MXNJPY	3:30:00 PM					N/A
11/8/2018	NOKJPY	9:30:00 AM					N/A
11/8/2018	NOKJPY	11:30:00 AM					N/A
11/8/2018	NOKJPY	1:30:00 PM					N/A
11/8/2018	NOKJPY	3:30:00 PM					N/A
11/8/2018	NZDCAD	9:30:00 AM	0.88991	0.89054			N/A
11/8/2018	NZDCAD	11:30:00 AM	0.88775	0.88837			N/A
11/8/2018	NZDCAD	1:30:00 PM	0.88734	0.88795			N/A
11/8/2018	NZDCAD	3:30:00 PM	0.88904	0.8897			N/A
11/8/2018	NZDCHF	9:30:00 AM	0.68031	0.68094			N/A
11/8/2018	NZDCHF	11:30:00 AM	0.67955	0.68024			N/A
11/8/2018	NZDCHF	1:30:00 PM	0.67916	0.67974			N/A
11/8/2018	NZDCHF	3:30:00 PM	0.67999	0.68072			N/A
11/8/2018	NZDCZK	9:30:00 AM	15.366	15.377			N/A
11/8/2018	NZDCZK	11:30:00 AM	15.34	15.352			N/A
11/8/2018	NZDCZK	1:30:00 PM	15.349	15.357			N/A
11/8/2018	NZDCZK	3:30:00 PM	15.362	15.372			N/A
11/8/2018	NZDDKK	9:30:00 AM	4.431	4.435			N/A
11/8/2018	NZDDKK	11:30:00 AM					N/A
11/8/2018	NZDDKK	1:30:00 PM					N/A
11/8/2018	NZDDKK	3:30:00 PM	4.428	4.431			N/A
11/8/2018	NZDHKD	9:30:00 AM	5.3141	5.317			N/A
11/8/2018	NZDHKD	11:30:00 AM	5.3053	5.308			N/A
11/8/2018	NZDHKD	1:30:00 PM	5.3	5.3029			N/A
11/8/2018	NZDHKD	3:30:00 PM	5.3085	5.3113			N/A
11/8/2018	NZDHUF	9:30:00 AM	190.94	191.19			N/A
11/8/2018	NZDHUF	11:30:00 AM	190.68	190.89			N/A
11/8/2018	NZDHUF	1:30:00 PM	190.67	190.92			N/A

11/8/2018	NZDHUF	3:30:00 PM	190.6	190.86			N/A
11/8/2018	NZDJPY	9:30:00 AM	77.157	77.216			N/A
11/8/2018	NZDJPY	11:30:00 AM	77.078	77.153			N/A
11/8/2018	NZDJPY	1:30:00 PM	77.008	77.077			N/A
11/8/2018	NZDJPY	3:30:00 PM	77.124	77.19			N/A
11/8/2018	NZDMXN	9:30:00 AM	13.4836	13.486			N/A
11/8/2018	NZDMXN	11:30:00 AM	13.4832	13.4901			N/A
11/8/2018	NZDMXN	1:30:00 PM	13.4714	13.4717			N/A
11/8/2018	NZDMXN	3:30:00 PM	13.4872	13.4883			N/A
11/8/2018	NZDNOK	9:30:00 AM	5.6625	5.6655			N/A
11/8/2018	NZDNOK	11:30:00 AM	5.6509	5.654			N/A
11/8/2018	NZDNOK	1:30:00 PM	5.6451	5.649			N/A
11/8/2018	NZDNOK	3:30:00 PM	5.6441	5.6479			N/A
11/8/2018	NZDPLN	9:30:00 AM	2.5494	2.5508			N/A
11/8/2018	NZDPLN	11:30:00 AM	2.5474	2.5488			N/A
11/8/2018	NZDPLN	1:30:00 PM	2.5467	2.5479			N/A
11/8/2018	NZDPLN	3:30:00 PM	2.5459	2.5472			N/A
11/8/2018	NZDSEK	9:30:00 AM	6.1182	6.125			N/A
11/8/2018	NZDSEK	11:30:00 AM	6.0896	6.0965			N/A
11/8/2018	NZDSEK	1:30:00 PM	6.0806	6.0874			N/A
11/8/2018	NZDSEK	3:30:00 PM	6.0851	6.0905			N/A
11/8/2018	NZDSGD	9:30:00 AM	0.931	0.9317			N/A
11/8/2018	NZDSGD	11:30:00 AM	0.9297	0.9304			N/A
11/8/2018	NZDSGD	1:30:00 PM	0.9292	0.9298			N/A
11/8/2018	NZDSGD	3:30:00 PM	0.9303	0.9309			N/A
11/8/2018	NZDUSD	9:30:00 AM	0.67888	0.67882			N/A
11/8/2018	NZDUSD	11:30:00 AM	0.67814	0.67814			N/A
11/8/2018	NZDUSD	1:30:00 PM	0.67739	0.67733			N/A
11/8/2018	NZDUSD	3:30:00 PM	0.67853	0.67849			N/A
11/8/2018	NZDZAR	9:30:00 AM	9.4745	9.4899			N/A
11/8/2018	NZDZAR	11:30:00 AM	9.4691	9.4848			N/A
11/8/2018	NZDZAR	1:30:00 PM	9.4703	9.487			N/A
11/8/2018	NZDZAR	3:30:00 PM	9.4812	9.496			N/A
11/8/2018	SEKJPY	9:30:00 AM	12.6	12.62			N/A
11/8/2018	SEKJPY	11:30:00 AM					N/A
11/8/2018	SEKJPY	1:30:00 PM					N/A
11/8/2018	SEKJPY	3:30:00 PM					N/A
11/8/2018	SGDJPY	9:30:00 AM	82.86	82.88			N/A
11/8/2018	SGDJPY	11:30:00 AM	82.9	82.93			N/A
11/8/2018	SGDJPY	1:30:00 PM	82.87	82.9			N/A
11/8/2018	SGDJPY	3:30:00 PM	82.89	82.92			N/A
11/8/2018	SILVER	9:30:00 AM	14.31	14.7			N/A
11/8/2018	SILVER	11:30:00 AM	14.3	14.66			N/A
11/8/2018	SILVER	1:30:00 PM	14.28	14.65			N/A
11/8/2018	SILVER	3:30:00 PM	14.3	14.65			N/A
11/8/2018	USDCAD	9:30:00 AM	1.31119	1.31129			N/A
11/8/2018	USDCAD	11:30:00 AM	1.30945	1.30937			N/A
11/8/2018	USDCAD	1:30:00 PM	1.31031	1.31024			N/A
11/8/2018	USDCAD	3:30:00 PM	1.31056	1.3107			N/A
11/8/2018	USDCHF	9:30:00 AM	1.00239	1.00248			N/A

11/8/2018	USDCHE	11:30:00 AM	1.00239	1.00247			N/A
11/8/2018	USDCHE	1:30:00 PM	1.0029	1.00286			N/A
11/8/2018	USDCHE	3:30:00 PM	1.00221	1.00292			N/A
11/8/2018	USDCZK	9:30:00 AM	22.632	22.656			N/A
11/8/2018	USDCZK	11:30:00 AM	22.618	22.641			N/A
11/8/2018	USDCZK	1:30:00 PM	22.657	22.675			N/A
11/8/2018	USDCZK	3:30:00 PM	22.639	22.659			N/A
11/8/2018	USDDKK	9:30:00 AM	6.5304	6.5355			N/A
11/8/2018	USDDKK	11:30:00 AM	6.5306	6.5356			N/A
11/8/2018	USDDKK	1:30:00 PM	6.536	6.5398			N/A
11/8/2018	USDDKK	3:30:00 PM	6.5284	6.5328			N/A
11/8/2018	USDHKD	9:30:00 AM	7.8304	7.8308			N/A
11/8/2018	USDHKD	11:30:00 AM	7.8268	7.8266			N/A
11/8/2018	USDHKD	1:30:00 PM	7.8274	7.8271			N/A
11/8/2018	USDHKD	3:30:00 PM	7.8267	7.8271			N/A
11/8/2018	USDHUF	9:30:00 AM	281.3	281.77			N/A
11/8/2018	USDHUF	11:30:00 AM	281.24	281.71			N/A
11/8/2018	USDHUF	1:30:00 PM	281.55	281.94			N/A
11/8/2018	USDHUF	3:30:00 PM	281.02	281.38			N/A
11/8/2018	USDJPY	9:30:00 AM	113.688	113.688			N/A
11/8/2018	USDJPY	11:30:00 AM	113.702	113.701			N/A
11/8/2018	USDJPY	1:30:00 PM	113.72	113.718			N/A
11/8/2018	USDJPY	3:30:00 PM	113.706	113.703			N/A
11/8/2018	USDMXN	9:30:00 AM	19.869	19.87			N/A
11/8/2018	USDMXN	11:30:00 AM	19.89	19.896			N/A
11/8/2018	USDMXN	1:30:00 PM	19.893	19.894			N/A
11/8/2018	USDMXN	3:30:00 PM	19.887	19.888			N/A
11/8/2018	USDNOK	9:30:00 AM	8.3418	8.3508			N/A
11/8/2018	USDNOK	11:30:00 AM	8.3331	8.3415			N/A
11/8/2018	USDNOK	1:30:00 PM	8.3357	8.3436			N/A
11/8/2018	USDNOK	3:30:00 PM	8.3207	8.3283			N/A
11/8/2018	USDPLN	9:30:00 AM	3.7568	3.7582			N/A
11/8/2018	USDPLN	11:30:00 AM	3.7575	3.759			N/A
11/8/2018	USDPLN	1:30:00 PM	3.7617	3.7617			N/A
11/8/2018	USDPLN	3:30:00 PM	3.7527	3.7537			N/A
11/8/2018	USDRUR	9:30:00 AM					N/A
11/8/2018	USDRUR	11:30:00 AM	66.075	66.452			N/A
11/8/2018	USDRUR	1:30:00 PM	66.206	66.597			N/A
11/8/2018	USDRUR	3:30:00 PM	66.216	66.58			N/A
11/8/2018	USDSEK	9:30:00 AM	9.0161	9.0206			N/A
11/8/2018	USDSEK	11:30:00 AM	8.9837	8.9872			N/A
11/8/2018	USDSEK	1:30:00 PM	8.9805	8.9839			N/A
11/8/2018	USDSEK	3:30:00 PM	8.9719	8.974			N/A
11/8/2018	USDSGD	9:30:00 AM	1.3713	1.3717			N/A
11/8/2018	USDSGD	11:30:00 AM	1.3707	1.3711			N/A
11/8/2018	USDSGD	1:30:00 PM	1.3715	1.3719			N/A
11/8/2018	USDSGD	3:30:00 PM	1.3709	1.3713			N/A
11/8/2018	USDZAR	9:30:00 AM	13.9675	13.981			N/A
11/8/2018	USDZAR	11:30:00 AM	13.9725	13.9851			N/A
11/8/2018	USDZAR	1:30:00 PM	13.9879	14.0064			N/A

11/8/2018	USDZAR	3:30:00 PM	13.9836	14.0003			N/A
11/8/2018	XAUUSD	9:30:00 AM	1223.94	1224.13			N/A
11/8/2018	XAUUSD	11:30:00 AM	1223.69	1223.81			N/A
11/8/2018	XAUUSD	1:30:00 PM	1222.54	1222.52			N/A
11/8/2018	XAUUSD	3:30:00 PM	1224.03	1224.04			N/A
11/8/2018	ZARJPY	9:30:00 AM					N/A
11/8/2018	ZARJPY	11:30:00 AM	8.09	8.12			N/A
11/8/2018	ZARJPY	1:30:00 PM					N/A
11/8/2018	ZARJPY	3:30:00 PM					N/A
11/9/2018	#AA	9:30:00 AM					N/A
11/9/2018	#AA	11:30:00 AM					N/A
11/9/2018	#AA	1:30:00 PM					N/A
11/9/2018	#AA	3:30:00 PM					N/A
11/9/2018	#AABA	9:30:00 AM					N/A
11/9/2018	#AABA	11:30:00 AM					N/A
11/9/2018	#AABA	1:30:00 PM					N/A
11/9/2018	#AABA	3:30:00 PM					N/A
11/9/2018	#AAL	9:30:00 AM					N/A
11/9/2018	#AAL	11:30:00 AM					N/A
11/9/2018	#AAL	1:30:00 PM					N/A
11/9/2018	#AAL	3:30:00 PM					N/A
11/9/2018	#AAPL	9:30:00 AM					N/A
11/9/2018	#AAPL	11:30:00 AM					N/A
11/9/2018	#AAPL	1:30:00 PM					N/A
11/9/2018	#AAPL	3:30:00 PM					N/A
11/9/2018	#ADBE	9:30:00 AM					N/A
11/9/2018	#ADBE	11:30:00 AM					N/A
11/9/2018	#ADBE	1:30:00 PM					N/A
11/9/2018	#ADBE	3:30:00 PM					N/A
11/9/2018	#AIG	9:30:00 AM					N/A
11/9/2018	#AIG	11:30:00 AM					N/A
11/9/2018	#AIG	1:30:00 PM					N/A
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11/9/2018	#AMD	9:30:00 AM					N/A
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11/9/2018	#V	11:30:00 AM					N/A
11/9/2018	#V	1:30:00 PM					N/A
11/9/2018	#V	3:30:00 PM					N/A
11/9/2018	#VOD	9:30:00 AM					N/A
11/9/2018	#VOD	11:30:00 AM					N/A
11/9/2018	#VOD	1:30:00 PM					N/A
11/9/2018	#VOD	3:30:00 PM					N/A
11/9/2018	#VZ	9:30:00 AM					N/A
11/9/2018	#VZ	11:30:00 AM					N/A
11/9/2018	#VZ	1:30:00 PM					N/A

11/9/2018	#VZ	3:30:00 PM					N/A
11/9/2018	#WDC	9:30:00 AM					N/A
11/9/2018	#WDC	11:30:00 AM					N/A
11/9/2018	#WDC	1:30:00 PM					N/A
11/9/2018	#WDC	3:30:00 PM					N/A
11/9/2018	#WFC	9:30:00 AM					N/A
11/9/2018	#WFC	11:30:00 AM					N/A
11/9/2018	#WFC	1:30:00 PM					N/A
11/9/2018	#WFC	3:30:00 PM					N/A
11/9/2018	#WMT	9:30:00 AM					N/A
11/9/2018	#WMT	11:30:00 AM					N/A
11/9/2018	#WMT	1:30:00 PM					N/A
11/9/2018	#WMT	3:30:00 PM					N/A
11/9/2018	#XOM	9:30:00 AM					N/A
11/9/2018	#XOM	11:30:00 AM					N/A
11/9/2018	#XOM	1:30:00 PM					N/A
11/9/2018	#XOM	3:30:00 PM					N/A
11/9/2018	#YHOO	9:30:00 AM					N/A
11/9/2018	#YHOO	11:30:00 AM					N/A
11/9/2018	#YHOO	1:30:00 PM					N/A
11/9/2018	#YHOO	3:30:00 PM					N/A
11/9/2018	#ZNGA	9:30:00 AM					N/A
11/9/2018	#ZNGA	11:30:00 AM					N/A
11/9/2018	#ZNGA	1:30:00 PM					N/A
11/9/2018	#ZNGA	3:30:00 PM					N/A
11/9/2018	AUDCAD	9:30:00 AM	0.95412	0.95475			N/A
11/9/2018	AUDCAD	11:30:00 AM	0.95544	0.95603			N/A
11/9/2018	AUDCAD	1:30:00 PM	0.95507	0.95572			N/A
11/9/2018	AUDCAD	3:30:00 PM	0.95471	0.9551			N/A
11/9/2018	AUDCHF	9:30:00 AM	0.72922	0.72973			N/A
11/9/2018	AUDCHF	11:30:00 AM	0.72998	0.73051			N/A
11/9/2018	AUDCHF	1:30:00 PM	0.72787	0.72846			N/A
11/9/2018	AUDCHF	3:30:00 PM	0.72865	0.72915			N/A
11/9/2018	AUDCZK	9:30:00 AM	16.502	16.517			N/A
11/9/2018	AUDCZK	11:30:00 AM	16.552	16.568			N/A
11/9/2018	AUDCZK	1:30:00 PM	16.531	16.547			N/A
11/9/2018	AUDCZK	3:30:00 PM	16.545	16.556			N/A
11/9/2018	AUDDKK	9:30:00 AM	4.7575	4.7617			N/A
11/9/2018	AUDDKK	11:30:00 AM	4.7646	4.769			N/A
11/9/2018	AUDDKK	1:30:00 PM	4.7567	4.761			N/A
11/9/2018	AUDDKK	3:30:00 PM	4.7607	4.7644			N/A
11/9/2018	AUDHKD	9:30:00 AM	5.6639	5.6679			N/A
11/9/2018	AUDHKD	11:30:00 AM	5.6689	5.672			N/A
11/9/2018	AUDHKD	1:30:00 PM	5.6656	5.6693			N/A
11/9/2018	AUDHKD	3:30:00 PM	5.666	5.6677			N/A
11/9/2018	AUDHUF	9:30:00 AM	204.74	204.95			N/A
11/9/2018	AUDHUF	11:30:00 AM	205.2	205.41			N/A
11/9/2018	AUDHUF	1:30:00 PM	204.92	205.12			N/A
11/9/2018	AUDHUF	3:30:00 PM	204.95	205.14			N/A
11/9/2018	AUDJPY	9:30:00 AM	82.375	82.432			N/A

11/9/2018	AUDJPY	11:30:00 AM	82.447	82.509			N/A
11/9/2018	AUDJPY	1:30:00 PM	82.391	82.455			N/A
11/9/2018	AUDJPY	3:30:00 PM	82.456	82.499			N/A
11/9/2018	AUDMXN	9:30:00 AM	14.6135	14.621			N/A
11/9/2018	AUDMXN	11:30:00 AM	14.6553	14.6612			N/A
11/9/2018	AUDMXN	1:30:00 PM	14.6519	14.6612			N/A
11/9/2018	AUDMXN	3:30:00 PM	14.6774	14.6651			N/A
11/9/2018	AUDNOK	9:30:00 AM	6.0793	6.0848			N/A
11/9/2018	AUDNOK	11:30:00 AM	6.1049	6.1085			N/A
11/9/2018	AUDNOK	1:30:00 PM	6.093	6.0976			N/A
11/9/2018	AUDNOK	3:30:00 PM	6.0876	6.0927			N/A
11/9/2018	AUDNZD	9:30:00 AM	1.07377	1.0744			N/A
11/9/2018	AUDNZD	11:30:00 AM	1.07363	1.07429			N/A
11/9/2018	AUDNZD	1:30:00 PM	1.07332	1.074			N/A
11/9/2018	AUDNZD	3:30:00 PM	1.073	1.07357			N/A
11/9/2018	AUDPLN	9:30:00 AM	2.733	2.7358			N/A
11/9/2018	AUDPLN	11:30:00 AM	2.7397	2.7428			N/A
11/9/2018	AUDPLN	1:30:00 PM	2.7342	2.7372			N/A
11/9/2018	AUDPLN	3:30:00 PM	2.7374	2.7399			N/A
11/9/2018	AUDSEK	9:30:00 AM	6.5467	6.55			N/A
11/9/2018	AUDSEK	11:30:00 AM	6.5672	6.5697			N/A
11/9/2018	AUDSEK	1:30:00 PM	6.558	6.5615			N/A
11/9/2018	AUDSEK	3:30:00 PM	6.5535	6.5559			N/A
11/9/2018	AUDSGD	9:30:00 AM	0.9973	0.9976			N/A
11/9/2018	AUDSGD	11:30:00 AM	0.9975	0.9978			N/A
11/9/2018	AUDSGD	1:30:00 PM	0.9974	0.9976			N/A
11/9/2018	AUDSGD	3:30:00 PM	0.9972	0.9973			N/A
11/9/2018	AUDUSD	9:30:00 AM	0.72411	0.72403			N/A
11/9/2018	AUDUSD	11:30:00 AM	0.72453	0.72444			N/A
11/9/2018	AUDUSD	1:30:00 PM	0.72412	0.72412			N/A
11/9/2018	AUDUSD	3:30:00 PM	0.72389	0.7236			N/A
11/9/2018	AUDZAR	9:30:00 AM	10.2573	10.2675			N/A
11/9/2018	AUDZAR	11:30:00 AM	10.3056	10.3161			N/A
11/9/2018	AUDZAR	1:30:00 PM	10.3367	10.3459			N/A
11/9/2018	AUDZAR	3:30:00 PM	10.3252	10.3303			N/A
11/9/2018	CADCHF	9:30:00 AM	0.76402	0.76452			N/A
11/9/2018	CADCHF	11:30:00 AM	0.76381	0.76436			N/A
11/9/2018	CADCHF	1:30:00 PM	0.76183	0.76242			N/A
11/9/2018	CADCHF	3:30:00 PM	0.76296	0.76349			N/A
11/9/2018	CADCZK	9:30:00 AM	17.295	17.31			N/A
11/9/2018	CADCZK	11:30:00 AM	17.325	17.34			N/A
11/9/2018	CADCZK	1:30:00 PM	17.307	17.324			N/A
11/9/2018	CADCZK	3:30:00 PM	17.33	17.338			N/A
11/9/2018	CADDKK	9:30:00 AM	4.987	4.99			N/A
11/9/2018	CADDKK	11:30:00 AM	4.988	4.991			N/A
11/9/2018	CADDKK	1:30:00 PM					N/A
11/9/2018	CADDKK	3:30:00 PM	4.986	4.99			N/A
11/9/2018	CADHKD	9:30:00 AM	5.9367	5.9398			N/A
11/9/2018	CADHKD	11:30:00 AM	5.933	5.937			N/A
11/9/2018	CADHKD	1:30:00 PM	5.9318	5.9357			N/A

11/9/2018	CADHKD	3:30:00 PM	5.9337	5.9375			N/A
11/9/2018	CADHUF	9:30:00 AM	214.61	214.76			N/A
11/9/2018	CADHUF	11:30:00 AM	214.79	214.95			N/A
11/9/2018	CADHUF	1:30:00 PM	214.56	214.71			N/A
11/9/2018	CADHUF	3:30:00 PM	214.72	214.79			N/A
11/9/2018	CADJPY	9:30:00 AM	86.309	86.364			N/A
11/9/2018	CADJPY	11:30:00 AM	86.269	86.333			N/A
11/9/2018	CADJPY	1:30:00 PM	86.239	86.304			N/A
11/9/2018	CADJPY	3:30:00 PM	86.34	86.382			N/A
11/9/2018	CADMXN	9:30:00 AM	15.3173	15.3252			N/A
11/9/2018	CADMXN	11:30:00 AM	15.3376	15.3482			N/A
11/9/2018	CADMXN	1:30:00 PM	15.3414	15.3496			N/A
11/9/2018	CADMXN	3:30:00 PM	15.3758	15.3669			N/A
11/9/2018	CADNOK	9:30:00 AM	6.3728	6.3771			N/A
11/9/2018	CADNOK	11:30:00 AM	6.3901	6.3921			N/A
11/9/2018	CADNOK	1:30:00 PM	6.3797	6.3833			N/A
11/9/2018	CADNOK	3:30:00 PM	6.3779	6.3794			N/A
11/9/2018	CADPLN	9:30:00 AM	2.8637	2.8656			N/A
11/9/2018	CADPLN	11:30:00 AM	2.8675	2.8692			N/A
11/9/2018	CADPLN	1:30:00 PM	2.8627	2.8645			N/A
11/9/2018	CADPLN	3:30:00 PM	2.8668	2.868			N/A
11/9/2018	CADSEK	9:30:00 AM	6.8595	6.8633			N/A
11/9/2018	CADSEK	11:30:00 AM	6.8732	6.8744			N/A
11/9/2018	CADSEK	1:30:00 PM	6.8647	6.8685			N/A
11/9/2018	CADSEK	3:30:00 PM	6.8632	6.8633			N/A
11/9/2018	CADSGD	9:30:00 AM	1.0453	1.0456			N/A
11/9/2018	CADSGD	11:30:00 AM	1.0438	1.0441			N/A
11/9/2018	CADSGD	1:30:00 PM	1.0441	1.0445			N/A
11/9/2018	CADSGD	3:30:00 PM	1.0441	1.0443			N/A
11/9/2018	CADZAR	9:30:00 AM	10.7432	10.7577			N/A
11/9/2018	CADZAR	11:30:00 AM	10.7851	10.7966			N/A
11/9/2018	CADZAR	1:30:00 PM	10.8187	10.8291			N/A
11/9/2018	CADZAR	3:30:00 PM	10.8079	10.812			N/A
11/9/2018	CHFCZK	9:30:00 AM	22.636	22.645			N/A
11/9/2018	CHFCZK	11:30:00 AM	22.676	22.69			N/A
11/9/2018	CHFCZK	1:30:00 PM	22.714	22.729			N/A
11/9/2018	CHFCZK	3:30:00 PM	22.712	22.721			N/A
11/9/2018	CHFDKK	9:30:00 AM	6.524	6.527			N/A
11/9/2018	CHFDKK	11:30:00 AM					N/A
11/9/2018	CHFDKK	1:30:00 PM	6.535	6.538			N/A
11/9/2018	CHFDKK	3:30:00 PM	6.534	6.537			N/A
11/9/2018	CHFHKD	9:30:00 AM	7.7677	7.7707			N/A
11/9/2018	CHFHKD	11:30:00 AM	7.7671	7.7686			N/A
11/9/2018	CHFHKD	1:30:00 PM	7.786	7.7881			N/A
11/9/2018	CHFHKD	3:30:00 PM	7.7776	7.7785			N/A
11/9/2018	CHFHUF	9:30:00 AM	280.75	281.05			N/A
11/9/2018	CHFHUF	11:30:00 AM	281.04	281.38			N/A
11/9/2018	CHFHUF	1:30:00 PM	281.47	281.83			N/A
11/9/2018	CHFHUF	3:30:00 PM	281.27	281.57			N/A
11/9/2018	CHFJPY	9:30:00 AM	112.939	112.961			N/A

11/9/2018	CHFJPY	11:30:00 AM	112.926	112.927			N/A
11/9/2018	CHFJPY	1:30:00 PM	113.163	113.211			N/A
11/9/2018	CHFJPY	3:30:00 PM	113.143	113.128			N/A
11/9/2018	CHFMXN	9:30:00 AM	20.041	20.0497			N/A
11/9/2018	CHFMXN	11:30:00 AM	20.0759	20.0846			N/A
11/9/2018	CHFMXN	1:30:00 PM	20.1315	20.1412			N/A
11/9/2018	CHFMXN	3:30:00 PM	20.1447	20.1293			N/A
11/9/2018	CHFNOK	9:30:00 AM	8.3383	8.344			N/A
11/9/2018	CHFNOK	11:30:00 AM	8.3638	8.3665			N/A
11/9/2018	CHFNOK	1:30:00 PM	8.3699	8.3753			N/A
11/9/2018	CHFNOK	3:30:00 PM	8.3565	8.3627			N/A
11/9/2018	CHFPLN	9:30:00 AM	3.7474	3.7489			N/A
11/9/2018	CHFPLN	11:30:00 AM	3.7523	3.7549			N/A
11/9/2018	CHFPLN	1:30:00 PM	3.7558	3.7585			N/A
11/9/2018	CHFPLN	3:30:00 PM	3.7563	3.7591			N/A
11/9/2018	CHFSEK	9:30:00 AM	8.9777	8.9794			N/A
11/9/2018	CHFSEK	11:30:00 AM	8.9953	8.9967			N/A
11/9/2018	CHFSEK	1:30:00 PM	9.0096	9.0115			N/A
11/9/2018	CHFSEK	3:30:00 PM	8.9953	8.9959			N/A
11/9/2018	CHFSGD	9:30:00 AM	1.3673	1.3675			N/A
11/9/2018	CHFSGD	11:30:00 AM	1.3662	1.3663			N/A
11/9/2018	CHFSGD	1:30:00 PM	1.3698	1.3702			N/A
11/9/2018	CHFSGD	3:30:00 PM	1.3683	1.3685			N/A
11/9/2018	CHFZAR	9:30:00 AM	14.0632	14.0698			N/A
11/9/2018	CHFZAR	11:30:00 AM	14.1173	14.1283			N/A
11/9/2018	CHFZAR	1:30:00 PM	14.2009	14.2041			N/A
11/9/2018	CHFZAR	3:30:00 PM	14.164	14.1667			N/A
11/9/2018	CZKJPY	9:30:00 AM	4.989	4.992			N/A
11/9/2018	CZKJPY	11:30:00 AM	4.979	4.983			N/A
11/9/2018	CZKJPY	1:30:00 PM					N/A
11/9/2018	CZKJPY	3:30:00 PM	4.982	4.985			N/A
11/9/2018	DKKJPY	9:30:00 AM	17.31	17.33			N/A
11/9/2018	DKKJPY	11:30:00 AM					N/A
11/9/2018	DKKJPY	1:30:00 PM					N/A
11/9/2018	DKKJPY	3:30:00 PM					N/A
11/9/2018	EURAUD	9:30:00 AM	1.56703	1.56672			N/A
11/9/2018	EURAUD	11:30:00 AM	1.56469	1.56436			N/A
11/9/2018	EURAUD	1:30:00 PM	1.56721	1.56703			N/A
11/9/2018	EURAUD	3:30:00 PM	1.56619	1.56562			N/A
11/9/2018	EURCAD	9:30:00 AM	1.49564	1.49615			N/A
11/9/2018	EURCAD	11:30:00 AM	1.49564	1.4959			N/A
11/9/2018	EURCAD	1:30:00 PM	1.49739	1.49791			N/A
11/9/2018	EURCAD	3:30:00 PM	1.49574	1.49603			N/A
11/9/2018	EURCHF	9:30:00 AM	1.14333	1.14304			N/A
11/9/2018	EURCHF	11:30:00 AM	1.1428	1.14272			N/A
11/9/2018	EURCHF	1:30:00 PM	1.14139	1.14132			N/A
11/9/2018	EURCHF	3:30:00 PM	1.14137	1.14178			N/A
11/9/2018	EURCZK	9:30:00 AM	25.864	25.9			N/A
11/9/2018	EURCZK	11:30:00 AM	25.903	25.942			N/A
11/9/2018	EURCZK	1:30:00 PM	25.912	25.951			N/A

11/9/2018	EURCZK	3:30:00 PM	25.915	25.95			N/A
11/9/2018	EURDKK	9:30:00 AM	7.4585	7.4596			N/A
11/9/2018	EURDKK	11:30:00 AM	7.4583	7.4595			N/A
11/9/2018	EURDKK	1:30:00 PM	7.4587	7.4598			N/A
11/9/2018	EURDKK	3:30:00 PM	7.4585	7.4594			N/A
11/9/2018	EURGBP	9:30:00 AM	0.87117	0.87124			N/A
11/9/2018	EURGBP	11:30:00 AM	0.87134	0.87098			N/A
11/9/2018	EURGBP	1:30:00 PM	0.87169	0.87178			N/A
11/9/2018	EURGBP	3:30:00 PM	0.87056	0.87025			N/A
11/9/2018	EURHKD	9:30:00 AM	8.8789	8.8826			N/A
11/9/2018	EURHKD	11:30:00 AM	8.8742	8.8768			N/A
11/9/2018	EURHKD	1:30:00 PM	8.8828	8.888			N/A
11/9/2018	EURHKD	3:30:00 PM	8.8781	8.878			N/A
11/9/2018	EURHUF	9:30:00 AM	320.8	321.52			N/A
11/9/2018	EURHUF	11:30:00 AM	321.05	321.76			N/A
11/9/2018	EURHUF	1:30:00 PM	321.11	321.82			N/A
11/9/2018	EURHUF	3:30:00 PM	320.96	321.66			N/A
11/9/2018	EURJPY	9:30:00 AM	129.148	129.113			N/A
11/9/2018	EURJPY	11:30:00 AM	129.074	129.049			N/A
11/9/2018	EURJPY	1:30:00 PM	129.191	129.182		10	N/A
11/9/2018	EURJPY	3:30:00 PM	129.201	129.17			N/A
11/9/2018	EURMXN	9:30:00 AM	22.9125	22.9246			N/A
11/9/2018	EURMXN	11:30:00 AM	22.9418	22.9546			N/A
11/9/2018	EURMXN	1:30:00 PM	22.9757	22.9884			N/A
11/9/2018	EURMXN	3:30:00 PM	22.9992	22.9877			N/A
11/9/2018	EURNOK	9:30:00 AM	9.5298	9.5414			N/A
11/9/2018	EURNOK	11:30:00 AM	9.5556	9.5631			N/A
11/9/2018	EURNOK	1:30:00 PM	9.5508	9.5612			N/A
11/9/2018	EURNOK	3:30:00 PM	9.5379	9.5484			N/A
11/9/2018	EURNZD	9:30:00 AM	1.68304	1.68368			N/A
11/9/2018	EURNZD	11:30:00 AM	1.68044	1.68098			N/A
11/9/2018	EURNZD	1:30:00 PM	1.68258	1.68336			N/A
11/9/2018	EURNZD	3:30:00 PM	1.68105	1.68121			N/A
11/9/2018	EURPLN	9:30:00 AM	4.2835	4.2866			N/A
11/9/2018	EURPLN	11:30:00 AM	4.2879	4.2911			N/A
11/9/2018	EURPLN	1:30:00 PM	4.2866	4.2894			N/A
11/9/2018	EURPLN	3:30:00 PM	4.2882	4.2911			N/A
11/9/2018	EURRUR	9:30:00 AM					N/A
11/9/2018	EURRUR	11:30:00 AM	75.627	76.056			N/A
11/9/2018	EURRUR	1:30:00 PM	76.058	76.48			N/A
11/9/2018	EURRUR	3:30:00 PM	76.21	76.581			N/A
11/9/2018	EURSEK	9:30:00 AM	10.2613	10.2659			N/A
11/9/2018	EURSEK	11:30:00 AM	10.2784	10.2809			N/A
11/9/2018	EURSEK	1:30:00 PM	10.2819	10.285			N/A
11/9/2018	EURSEK	3:30:00 PM	10.2668	10.2704			N/A
11/9/2018	EURSGD	9:30:00 AM	1.5628	1.5635			N/A
11/9/2018	EURSGD	11:30:00 AM	1.5609	1.5615			N/A
11/9/2018	EURSGD	1:30:00 PM	1.5632	1.5641			N/A
11/9/2018	EURSGD	3:30:00 PM	1.5618	1.5624			N/A
11/9/2018	EURUSD	9:30:00 AM	1.13457	1.13439			N/A

11/9/2018	EURUSD	11:30:00 AM	1.13373	1.13343			N/A
11/9/2018	EURUSD	1:30:00 PM	1.13477	1.13477			N/A
11/9/2018	EURUSD	3:30:00 PM	1.13382	1.13325			N/A
11/9/2018	EURZAR	9:30:00 AM	16.0778	16.089			N/A
11/9/2018	EURZAR	11:30:00 AM	16.1366	16.148			N/A
11/9/2018	EURZAR	1:30:00 PM	16.2052	16.2148			N/A
11/9/2018	EURZAR	3:30:00 PM	16.1767	16.1764			N/A
11/9/2018	GBPAUD	9:30:00 AM	1.79857	1.79908			N/A
11/9/2018	GBPAUD	11:30:00 AM	1.79651	1.79612			N/A
11/9/2018	GBPAUD	1:30:00 PM	1.79776	1.79841			N/A
11/9/2018	GBPAUD	3:30:00 PM	1.79987	1.79975			N/A
11/9/2018	GBPCAD	9:30:00 AM	1.71661	1.71723			N/A
11/9/2018	GBPCAD	11:30:00 AM	1.71686	1.71643			N/A
11/9/2018	GBPCAD	1:30:00 PM	1.71751	1.71821			N/A
11/9/2018	GBPCAD	3:30:00 PM	1.71843	1.7189			N/A
11/9/2018	GBPCHF	9:30:00 AM	1.31228	1.31212			N/A
11/9/2018	GBPCHF	11:30:00 AM	1.3117	1.31161			N/A
11/9/2018	GBPCHF	1:30:00 PM	1.30911	1.30946			N/A
11/9/2018	GBPCHF	3:30:00 PM	1.31153	1.31178			N/A
11/9/2018	GBPCZK	9:30:00 AM	29.691	29.71			N/A
11/9/2018	GBPCZK	11:30:00 AM	29.744	29.739			N/A
11/9/2018	GBPCZK	1:30:00 PM	29.729	29.751			N/A
11/9/2018	GBPCZK	3:30:00 PM	29.784	29.787			N/A
11/9/2018	GBPDKK	9:30:00 AM	8.558	8.569			N/A
11/9/2018	GBPDKK	11:30:00 AM	8.56	8.568			N/A
11/9/2018	GBPDKK	1:30:00 PM	8.553	8.564			N/A
11/9/2018	GBPDKK	3:30:00 PM	8.568	8.576			N/A
11/9/2018	GBPHKD	9:30:00 AM	10.192	10.1937			N/A
11/9/2018	GBPHKD	11:30:00 AM	10.1871	10.179			N/A
11/9/2018	GBPHKD	1:30:00 PM	10.1897	10.194			N/A
11/9/2018	GBPHKD	3:30:00 PM	10.1967	10.2005			N/A
11/9/2018	GBPHUF	9:30:00 AM	368.3	368.71			N/A
11/9/2018	GBPHUF	11:30:00 AM	368.63	368.67			N/A
11/9/2018	GBPHUF	1:30:00 PM	368.42	368.89			N/A
11/9/2018	GBPHUF	3:30:00 PM	368.87	369.13			N/A
11/9/2018	GBPJPY	9:30:00 AM	148.234	148.229			N/A
11/9/2018	GBPJPY	11:30:00 AM	148.18	148.122			N/A
11/9/2018	GBPJPY	1:30:00 PM	148.185	148.224			N/A
11/9/2018	GBPJPY	3:30:00 PM	148.437	148.427			N/A
11/9/2018	GBPMXN	9:30:00 AM	26.2895	26.3023			N/A
11/9/2018	GBPMXN	11:30:00 AM	26.3359	26.3174			N/A
11/9/2018	GBPMXN	1:30:00 PM	26.3492	26.3598			N/A
11/9/2018	GBPMXN	3:30:00 PM	26.4186	26.388			N/A
11/9/2018	GBPNOK	9:30:00 AM	10.9405	10.9505			N/A
11/9/2018	GBPNOK	11:30:00 AM	10.9732	10.9729			N/A
11/9/2018	GBPNOK	1:30:00 PM	10.9586	10.967			N/A
11/9/2018	GBPNOK	3:30:00 PM	10.9608	10.9684			N/A
11/9/2018	GBPNZD	9:30:00 AM	1.93186	1.93253			N/A
11/9/2018	GBPNZD	11:30:00 AM	1.9296	1.92891			N/A
11/9/2018	GBPNZD	1:30:00 PM	1.93028	1.93093			N/A

11/9/2018	GBPNZD	3:30:00 PM	1.93182	1.93151			N/A
11/9/2018	GBPPLN	9:30:00 AM	4.9177	4.9195			N/A
11/9/2018	GBPPLN	11:30:00 AM	4.9241	4.9233			N/A
11/9/2018	GBPPLN	1:30:00 PM	4.918	4.9198			N/A
11/9/2018	GBPPLN	3:30:00 PM	4.9287	4.928			N/A
11/9/2018	GBPSEK	9:30:00 AM	11.7767	11.7851			N/A
11/9/2018	GBPSEK	11:30:00 AM	11.7991	11.8014			N/A
11/9/2018	GBPSEK	1:30:00 PM	11.7923	11.8002			N/A
11/9/2018	GBPSEK	3:30:00 PM	11.7953	11.7998			N/A
11/9/2018	GBPSGD	9:30:00 AM	1.7941	1.7945			N/A
11/9/2018	GBPSGD	11:30:00 AM	1.7923	1.7918			N/A
11/9/2018	GBPSGD	1:30:00 PM	1.7933	1.7941			N/A
11/9/2018	GBPSGD	3:30:00 PM	1.7946	1.7949			N/A
11/9/2018	GBPUSD	9:30:00 AM	1.30251	1.3022			N/A
11/9/2018	GBPUSD	11:30:00 AM	1.30178	1.30077			N/A
11/9/2018	GBPUSD	1:30:00 PM	1.30193	1.30186			N/A
11/9/2018	GBPUSD	3:30:00 PM	1.3026	1.30231			N/A
11/9/2018	GBPZAR	9:30:00 AM	18.4505	18.4723			N/A
11/9/2018	GBPZAR	11:30:00 AM	18.5201	18.5389			N/A
11/9/2018	GBPZAR	1:30:00 PM	18.5868	18.6045			N/A
11/9/2018	GBPZAR	3:30:00 PM	18.5859	18.5875			N/A
11/9/2018	GOLD	9:30:00 AM	1220.29	1219.95			N/A
11/9/2018	GOLD	11:30:00 AM	1220.94	1220.71			N/A
11/9/2018	GOLD	1:30:00 PM	1218.76	1218.83			N/A
11/9/2018	GOLD	3:30:00 PM	1214.86	1213.5			N/A
11/9/2018	HKDJPY	9:30:00 AM					N/A
11/9/2018	HKDJPY	11:30:00 AM					N/A
11/9/2018	HKDJPY	1:30:00 PM					N/A
11/9/2018	HKDJPY	3:30:00 PM					N/A
11/9/2018	HUFJPY	9:30:00 AM	0.4023	0.4026			N/A
11/9/2018	HUFJPY	11:30:00 AM	0.4018	0.4021			N/A
11/9/2018	HUFJPY	1:30:00 PM	0.402	0.4023			N/A
11/9/2018	HUFJPY	3:30:00 PM	0.4024	0.4027			N/A
11/9/2018	MXNJPY	9:30:00 AM					N/A
11/9/2018	MXNJPY	11:30:00 AM					N/A
11/9/2018	MXNJPY	1:30:00 PM					N/A
11/9/2018	MXNJPY	3:30:00 PM					N/A
11/9/2018	NOKJPY	9:30:00 AM	13.54	13.57			N/A
11/9/2018	NOKJPY	11:30:00 AM					N/A
11/9/2018	NOKJPY	1:30:00 PM					N/A
11/9/2018	NOKJPY	3:30:00 PM	13.52	13.56			N/A
11/9/2018	NZDCAD	9:30:00 AM	0.88823	0.88888			N/A
11/9/2018	NZDCAD	11:30:00 AM	0.88956	0.89017			N/A
11/9/2018	NZDCAD	1:30:00 PM	0.88948	0.89012			N/A
11/9/2018	NZDCAD	3:30:00 PM	0.88957	0.88987			N/A
11/9/2018	NZDCHF	9:30:00 AM	0.67887	0.67932			N/A
11/9/2018	NZDCHF	11:30:00 AM	0.67965	0.68015			N/A
11/9/2018	NZDCHF	1:30:00 PM	0.67786	0.67847			N/A
11/9/2018	NZDCHF	3:30:00 PM	0.67884	0.67924			N/A
11/9/2018	NZDCZK	9:30:00 AM	15.365	15.375			N/A

11/9/2018	NZDCZK	11:30:00 AM	15.413	15.423			N/A
11/9/2018	NZDCZK	1:30:00 PM	15.397	15.41			N/A
11/9/2018	NZDCZK	3:30:00 PM	15.415	15.424			N/A
11/9/2018	NZDDKK	9:30:00 AM					N/A
11/9/2018	NZDDKK	11:30:00 AM					N/A
11/9/2018	NZDDKK	1:30:00 PM					N/A
11/9/2018	NZDDKK	3:30:00 PM	4.435	4.439			N/A
11/9/2018	NZDHKD	9:30:00 AM	5.2735	5.2754			N/A
11/9/2018	NZDHKD	11:30:00 AM	5.2778	5.2805			N/A
11/9/2018	NZDHKD	1:30:00 PM	5.2765	5.2794			N/A
11/9/2018	NZDHKD	3:30:00 PM	5.2789	5.2792			N/A
11/9/2018	NZDHUF	9:30:00 AM	190.56	190.83			N/A
11/9/2018	NZDHUF	11:30:00 AM	191	191.28			N/A
11/9/2018	NZDHUF	1:30:00 PM	190.8	191.06			N/A
11/9/2018	NZDHUF	3:30:00 PM	190.89	191.15			N/A
11/9/2018	NZDJPY	9:30:00 AM	76.687	76.739			N/A
11/9/2018	NZDJPY	11:30:00 AM	76.762	76.824			N/A
11/9/2018	NZDJPY	1:30:00 PM	76.731	76.795			N/A
11/9/2018	NZDJPY	3:30:00 PM	76.814	76.866			N/A
11/9/2018	NZDMXN	9:30:00 AM	13.605	13.6098			N/A
11/9/2018	NZDMXN	11:30:00 AM	13.6452	13.6483			N/A
11/9/2018	NZDMXN	1:30:00 PM	13.6473	13.6509			N/A
11/9/2018	NZDMXN	3:30:00 PM	13.6746	13.6613			N/A
11/9/2018	NZDNOK	9:30:00 AM	5.6608	5.6641			N/A
11/9/2018	NZDNOK	11:30:00 AM	5.6842	5.6861			N/A
11/9/2018	NZDNOK	1:30:00 PM	5.6753	5.6776			N/A
11/9/2018	NZDNOK	3:30:00 PM	5.6724	5.6747			N/A
11/9/2018	NZDPLN	9:30:00 AM	2.5437	2.5451			N/A
11/9/2018	NZDPLN	11:30:00 AM	2.5507	2.5521			N/A
11/9/2018	NZDPLN	1:30:00 PM	2.5465	2.5478			N/A
11/9/2018	NZDPLN	3:30:00 PM	2.5497	2.551			N/A
11/9/2018	NZDSEK	9:30:00 AM	6.0909	6.0977			N/A
11/9/2018	NZDSEK	11:30:00 AM	6.112	6.1167			N/A
11/9/2018	NZDSEK	1:30:00 PM	6.1048	6.1111			N/A
11/9/2018	NZDSEK	3:30:00 PM	6.102	6.1078			N/A
11/9/2018	NZDSGD	9:30:00 AM	0.9285	0.929			N/A
11/9/2018	NZDSGD	11:30:00 AM	0.9287	0.9294			N/A
11/9/2018	NZDSGD	1:30:00 PM	0.9289	0.9296			N/A
11/9/2018	NZDSGD	3:30:00 PM	0.929	0.9295			N/A
11/9/2018	NZDUSD	9:30:00 AM	0.67396	0.67389			N/A
11/9/2018	NZDUSD	11:30:00 AM	0.67446	0.67437			N/A
11/9/2018	NZDUSD	1:30:00 PM	0.67423	0.67425			N/A
11/9/2018	NZDUSD	3:30:00 PM	0.67441	0.67393			N/A
11/9/2018	NZDZAR	9:30:00 AM	9.5416	9.5558			N/A
11/9/2018	NZDZAR	11:30:00 AM	9.5921	9.6043			N/A
11/9/2018	NZDZAR	1:30:00 PM	9.6214	9.6321			N/A
11/9/2018	NZDZAR	3:30:00 PM	9.6098	9.6187			N/A
11/9/2018	SEKJPY	9:30:00 AM	12.58	12.6			N/A
11/9/2018	SEKJPY	11:30:00 AM	12.56	12.57			N/A
11/9/2018	SEKJPY	1:30:00 PM	12.57	12.59			N/A

11/9/2018	SEKJPY	3:30:00 PM	12.59	12.6			N/A
11/9/2018	SGDJPY	9:30:00 AM	82.59	82.61			N/A
11/9/2018	SGDJPY	11:30:00 AM	82.64	82.67			N/A
11/9/2018	SGDJPY	1:30:00 PM	82.6	82.62			N/A
11/9/2018	SGDJPY	3:30:00 PM	82.68	82.7			N/A
11/9/2018	SILVER	9:30:00 AM	14.2	14.56			N/A
11/9/2018	SILVER	11:30:00 AM	14.18	14.54			N/A
11/9/2018	SILVER	1:30:00 PM	14.14	14.51			N/A
11/9/2018	SILVER	3:30:00 PM	14.09	14.45			N/A
11/9/2018	USDCAD	9:30:00 AM	1.31838	1.31829			N/A
11/9/2018	USDCAD	11:30:00 AM	1.31926	1.31918			N/A
11/9/2018	USDCAD	1:30:00 PM	1.31949	1.31951			N/A
11/9/2018	USDCAD	3:30:00 PM	1.31967	1.31948			N/A
11/9/2018	USDCHF	9:30:00 AM	1.00758	1.00755			N/A
11/9/2018	USDCHF	11:30:00 AM	1.00809	1.00784			N/A
11/9/2018	USDCHF	1:30:00 PM	1.00567	1.00568			N/A
11/9/2018	USDCHF	3:30:00 PM	1.00696	1.00705			N/A
11/9/2018	USDCZK	9:30:00 AM	22.8	22.818			N/A
11/9/2018	USDCZK	11:30:00 AM	22.855	22.871			N/A
11/9/2018	USDCZK	1:30:00 PM	22.835	22.858			N/A
11/9/2018	USDCZK	3:30:00 PM	22.868	22.877			N/A
11/9/2018	USDDKK	9:30:00 AM	6.575	6.5794			N/A
11/9/2018	USDDKK	11:30:00 AM	6.5807	6.5842			N/A
11/9/2018	USDDKK	1:30:00 PM	6.5731	6.5784			N/A
11/9/2018	USDDKK	3:30:00 PM	6.5821	6.5836			N/A
11/9/2018	USDHKD	9:30:00 AM	7.8271	7.8275			N/A
11/9/2018	USDHKD	11:30:00 AM	7.8285	7.8289			N/A
11/9/2018	USDHKD	1:30:00 PM					N/A
11/9/2018	USDHKD	3:30:00 PM	7.831	7.8314			N/A
11/9/2018	USDHUF	9:30:00 AM	282.84	283.27			N/A
11/9/2018	USDHUF	11:30:00 AM	283.3	283.69			N/A
11/9/2018	USDHUF	1:30:00 PM	283.02	283.48			N/A
11/9/2018	USDHUF	3:30:00 PM	283.28	283.58			N/A
11/9/2018	USDJPY	9:30:00 AM	113.828	113.822			N/A
11/9/2018	USDJPY	11:30:00 AM	113.854	113.849			N/A
11/9/2018	USDJPY	1:30:00 PM	113.843	113.838			N/A
11/9/2018	USDJPY	3:30:00 PM	113.996	113.93			N/A
11/9/2018	USDMXN	9:30:00 AM	20.198	20.198			N/A
11/9/2018	USDMXN	11:30:00 AM	20.238	20.245			N/A
11/9/2018	USDMXN	1:30:00 PM	20.247	20.251			N/A
11/9/2018	USDMXN	3:30:00 PM	20.296	20.272			N/A
11/9/2018	USDNOK	9:30:00 AM	8.4015	8.409			N/A
11/9/2018	USDNOK	11:30:00 AM	8.4299	8.4352			N/A
11/9/2018	USDNOK	1:30:00 PM	8.4183	8.4253			N/A
11/9/2018	USDNOK	3:30:00 PM	8.417	8.4212			N/A
11/9/2018	USDPLN	9:30:00 AM	3.7764	3.7771			N/A
11/9/2018	USDPLN	11:30:00 AM	3.7834	3.7838			N/A
11/9/2018	USDPLN	1:30:00 PM	3.7777	3.7788			N/A
11/9/2018	USDPLN	3:30:00 PM	3.7842	3.7831			N/A
11/9/2018	USDRUR	9:30:00 AM					N/A

11/9/2018	USDRUR	11:30:00 AM	66.778	67.155			N/A
11/9/2018	USDRUR	1:30:00 PM	67.083	67.458			N/A
11/9/2018	USDRUR	3:30:00 PM	67.305	67.629			N/A
11/9/2018	USDSEK	9:30:00 AM	9.0426	9.0467			N/A
11/9/2018	USDSEK	11:30:00 AM	9.0658	9.0673			N/A
11/9/2018	USDSEK	1:30:00 PM	9.0573	9.0615			N/A
11/9/2018	USDSEK	3:30:00 PM	9.0567	9.056			N/A
11/9/2018	USDSGD	9:30:00 AM	1.3775	1.3779			N/A
11/9/2018	USDSGD	11:30:00 AM	1.3768	1.3772			N/A
11/9/2018	USDSGD	1:30:00 PM	1.3775	1.3778			N/A
11/9/2018	USDSGD	3:30:00 PM	1.3779	1.378			N/A
11/9/2018	USDZAR	9:30:00 AM	14.1701	14.1798			N/A
11/9/2018	USDZAR	11:30:00 AM	14.2338	14.243			N/A
11/9/2018	USDZAR	1:30:00 PM	14.2773	14.2882			N/A
11/9/2018	USDZAR	3:30:00 PM	14.2723	14.2677			N/A
11/9/2018	XAUUSD	9:30:00 AM	1220.29	1219.95			N/A
11/9/2018	XAUUSD	11:30:00 AM	1220.94	1220.7			N/A
11/9/2018	XAUUSD	1:30:00 PM	1218.76	1218.86			N/A
11/9/2018	XAUUSD	3:30:00 PM	1214.86	1213.54			N/A
11/9/2018	ZARJPY	9:30:00 AM					N/A
11/9/2018	ZARJPY	11:30:00 AM					N/A
11/9/2018	ZARJPY	1:30:00 PM					N/A
11/9/2018	ZARJPY	3:30:00 PM	7.93	7.96			N/A
11/12/2018	#AA	9:30:00 AM					N/A
11/12/2018	#AA	11:30:00 AM					N/A
11/12/2018	#AA	1:30:00 PM					N/A
11/12/2018	#AA	3:30:00 PM					N/A
11/12/2018	#AABA	9:30:00 AM					N/A
11/12/2018	#AABA	11:30:00 AM					N/A
11/12/2018	#AABA	1:30:00 PM					N/A
11/12/2018	#AABA	3:30:00 PM					N/A
11/12/2018	#AAL	9:30:00 AM					N/A
11/12/2018	#AAL	11:30:00 AM					N/A
11/12/2018	#AAL	1:30:00 PM					N/A
11/12/2018	#AAL	3:30:00 PM					N/A
11/12/2018	#AAPL	9:30:00 AM					N/A
11/12/2018	#AAPL	11:30:00 AM					N/A
11/12/2018	#AAPL	1:30:00 PM					N/A
11/12/2018	#AAPL	3:30:00 PM					N/A
11/12/2018	#ADBE	9:30:00 AM					N/A
11/12/2018	#ADBE	11:30:00 AM					N/A
11/12/2018	#ADBE	1:30:00 PM					N/A
11/12/2018	#ADBE	3:30:00 PM					N/A
11/12/2018	#AIG	9:30:00 AM					N/A
11/12/2018	#AIG	11:30:00 AM					N/A
11/12/2018	#AIG	1:30:00 PM					N/A
11/12/2018	#AIG	3:30:00 PM					N/A
11/12/2018	#AMD	9:30:00 AM					N/A
11/12/2018	#AMD	11:30:00 AM					N/A
11/12/2018	#AMD	1:30:00 PM					N/A

11/12/2018	#AMD	3:30:00 PM					N/A
11/12/2018	#AMZN	9:30:00 AM					N/A
11/12/2018	#AMZN	11:30:00 AM					N/A
11/12/2018	#AMZN	1:30:00 PM					N/A
11/12/2018	#AMZN	3:30:00 PM					N/A
11/12/2018	#AXP	9:30:00 AM					N/A
11/12/2018	#AXP	11:30:00 AM					N/A
11/12/2018	#AXP	1:30:00 PM					N/A
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11/12/2018	#WDC	11:30:00 AM					N/A
11/12/2018	#WDC	1:30:00 PM					N/A
11/12/2018	#WDC	3:30:00 PM					N/A
11/12/2018	#WFC	9:30:00 AM					N/A
11/12/2018	#WFC	11:30:00 AM					N/A
11/12/2018	#WFC	1:30:00 PM					N/A
11/12/2018	#WFC	3:30:00 PM					N/A
11/12/2018	#WMT	9:30:00 AM					N/A
11/12/2018	#WMT	11:30:00 AM					N/A
11/12/2018	#WMT	1:30:00 PM					N/A
11/12/2018	#WMT	3:30:00 PM					N/A
11/12/2018	#XOM	9:30:00 AM					N/A
11/12/2018	#XOM	11:30:00 AM					N/A
11/12/2018	#XOM	1:30:00 PM					N/A
11/12/2018	#XOM	3:30:00 PM					N/A
11/12/2018	#YHOO	9:30:00 AM					N/A
11/12/2018	#YHOO	11:30:00 AM					N/A
11/12/2018	#YHOO	1:30:00 PM					N/A
11/12/2018	#YHOO	3:30:00 PM					N/A
11/12/2018	#ZNGA	9:30:00 AM					N/A
11/12/2018	#ZNGA	11:30:00 AM					N/A
11/12/2018	#ZNGA	1:30:00 PM					N/A
11/12/2018	#ZNGA	3:30:00 PM					N/A
11/12/2018	AUDCAD	9:30:00 AM	0.95021	0.95082			N/A
11/12/2018	AUDCAD	11:30:00 AM	0.95031	0.95099			N/A
11/12/2018	AUDCAD	1:30:00 PM	0.95098	0.95155			N/A
11/12/2018	AUDCAD	3:30:00 PM	0.95194	0.95259			N/A
11/12/2018	AUDCHF	9:30:00 AM	0.72613	0.72677			N/A
11/12/2018	AUDCHF	11:30:00 AM	0.72591	0.72652			N/A
11/12/2018	AUDCHF	1:30:00 PM	0.72705	0.72768			N/A
11/12/2018	AUDCHF	3:30:00 PM	0.7272	0.72787			N/A
11/12/2018	AUDCZK	9:30:00 AM	16.571	16.585			N/A
11/12/2018	AUDCZK	11:30:00 AM	16.571	16.577			N/A
11/12/2018	AUDCZK	1:30:00 PM	16.602	16.618			N/A

11/12/2018	AUDCZK	3:30:00 PM	16.592	16.609			N/A
11/12/2018	AUDDKK	9:30:00 AM	4.7608	4.7653			N/A
11/12/2018	AUDDKK	11:30:00 AM	4.7668	4.771			N/A
11/12/2018	AUDDKK	1:30:00 PM	4.7715	4.7759			N/A
11/12/2018	AUDDKK	3:30:00 PM	4.7729	4.7773			N/A
11/12/2018	AUDHKD	9:30:00 AM	5.635	5.6389			N/A
11/12/2018	AUDHKD	11:30:00 AM	5.6363	5.6387			N/A
11/12/2018	AUDHKD	1:30:00 PM	5.6403	5.6436			N/A
11/12/2018	AUDHKD	3:30:00 PM	5.6477	5.6514			N/A
11/12/2018	AUDHUF	9:30:00 AM	205.29	205.47			N/A
11/12/2018	AUDHUF	11:30:00 AM	205.51	205.74			N/A
11/12/2018	AUDHUF	1:30:00 PM	205.82	206.06			N/A
11/12/2018	AUDHUF	3:30:00 PM	205.77	206.01			N/A
11/12/2018	AUDJPY	9:30:00 AM	82.153	82.198			N/A
11/12/2018	AUDJPY	11:30:00 AM	81.996	82.054			N/A
11/12/2018	AUDJPY	1:30:00 PM	82.042	82.104			N/A
11/12/2018	AUDJPY	3:30:00 PM	82.071	82.129			N/A
11/12/2018	AUDMXN	9:30:00 AM	14.5435	14.534			N/A
11/12/2018	AUDMXN	11:30:00 AM	14.5496	14.5551			N/A
11/12/2018	AUDMXN	1:30:00 PM	14.5907	14.6001			N/A
11/12/2018	AUDMXN	3:30:00 PM	14.6319	14.6355			N/A
11/12/2018	AUDNOK	9:30:00 AM	6.0901	6.0954			N/A
11/12/2018	AUDNOK	11:30:00 AM	6.0918	6.097			N/A
11/12/2018	AUDNOK	1:30:00 PM	6.0956	6.1012			N/A
11/12/2018	AUDNOK	3:30:00 PM	6.1002	6.1057			N/A
11/12/2018	AUDNZD	9:30:00 AM	1.07096	1.0715			N/A
11/12/2018	AUDNZD	11:30:00 AM	1.07058	1.07121			N/A
11/12/2018	AUDNZD	1:30:00 PM	1.07022	1.07096			N/A
11/12/2018	AUDNZD	3:30:00 PM	1.06879	1.06952			N/A
11/12/2018	AUDPLN	9:30:00 AM	2.7419	2.7446			N/A
11/12/2018	AUDPLN	11:30:00 AM	2.7454	2.748			N/A
11/12/2018	AUDPLN	1:30:00 PM	2.7491	2.7523			N/A
11/12/2018	AUDPLN	3:30:00 PM	2.7478	2.751			N/A
11/12/2018	AUDSEK	9:30:00 AM	6.5629	6.5664			N/A
11/12/2018	AUDSEK	11:30:00 AM	6.5689	6.5722			N/A
11/12/2018	AUDSEK	1:30:00 PM	6.5733	6.5767			N/A
11/12/2018	AUDSEK	3:30:00 PM	6.5722	6.5752			N/A
11/12/2018	AUDSGD	9:30:00 AM	0.9951	0.9954			N/A
11/12/2018	AUDSGD	11:30:00 AM	0.9953	0.9954			N/A
11/12/2018	AUDSGD	1:30:00 PM	0.9958	0.996			N/A
11/12/2018	AUDSGD	3:30:00 PM	0.9962	0.9965			N/A
11/12/2018	AUDUSD	9:30:00 AM	0.71983	0.71972			N/A
11/12/2018	AUDUSD	11:30:00 AM	0.71985	0.71973			N/A
11/12/2018	AUDUSD	1:30:00 PM	0.72058	0.72045			N/A
11/12/2018	AUDUSD	3:30:00 PM	0.72145	0.72141			N/A
11/12/2018	AUDZAR	9:30:00 AM	10.3761	10.3842			N/A
11/12/2018	AUDZAR	11:30:00 AM	10.353	10.3591			N/A
11/12/2018	AUDZAR	1:30:00 PM	10.3601	10.3675			N/A
11/12/2018	AUDZAR	3:30:00 PM	10.3565	10.3672			N/A
11/12/2018	CADCHF	9:30:00 AM	0.76393	0.76458			N/A

11/12/2018	CADCHF	11:30:00 AM	0.76357	0.7642			N/A
11/12/2018	CADCHF	1:30:00 PM	0.76429	0.76495			N/A
11/12/2018	CADCHF	3:30:00 PM	0.76367	0.76433			N/A
11/12/2018	CADCZK	9:30:00 AM	17.438	17.452			N/A
11/12/2018	CADCZK	11:30:00 AM	17.436	17.443			N/A
11/12/2018	CADCZK	1:30:00 PM	17.458	17.474			N/A
11/12/2018	CADCZK	3:30:00 PM	17.43	17.446			N/A
11/12/2018	CADDDKK	9:30:00 AM					N/A
11/12/2018	CADDDKK	11:30:00 AM	5.016	5.02			N/A
11/12/2018	CADDDKK	1:30:00 PM	5.018	5.022			N/A
11/12/2018	CADDDKK	3:30:00 PM					N/A
11/12/2018	CADHKD	9:30:00 AM	5.9307	5.9337			N/A
11/12/2018	CADHKD	11:30:00 AM	5.9301	5.9334			N/A
11/12/2018	CADHKD	1:30:00 PM	5.9305	5.9344			N/A
11/12/2018	CADHKD	3:30:00 PM	5.9326	5.9362			N/A
11/12/2018	CADHUF	9:30:00 AM	216.08	216.16			N/A
11/12/2018	CADHUF	11:30:00 AM	216.28	216.44			N/A
11/12/2018	CADHUF	1:30:00 PM	216.47	216.63			N/A
11/12/2018	CADHUF	3:30:00 PM	216.19	216.33			N/A
11/12/2018	CADJPY	9:30:00 AM	86.43	86.485			N/A
11/12/2018	CADJPY	11:30:00 AM	86.263	86.316			N/A
11/12/2018	CADJPY	1:30:00 PM	86.25	86.308			N/A
11/12/2018	CADJPY	3:30:00 PM	86.189	86.241			N/A
11/12/2018	CADMXN	9:30:00 AM	15.3069	15.297			N/A
11/12/2018	CADMXN	11:30:00 AM	15.3108	15.3176			N/A
11/12/2018	CADMXN	1:30:00 PM	15.3451	15.3536			N/A
11/12/2018	CADMXN	3:30:00 PM	15.371	15.3744			N/A
11/12/2018	CADNOK	9:30:00 AM	6.4102	6.4135			N/A
11/12/2018	CADNOK	11:30:00 AM	6.4104	6.4142			N/A
11/12/2018	CADNOK	1:30:00 PM	6.4104	6.4148			N/A
11/12/2018	CADNOK	3:30:00 PM	6.4088	6.4126			N/A
11/12/2018	CADPLN	9:30:00 AM	2.8852	2.8872			N/A
11/12/2018	CADPLN	11:30:00 AM	2.8881	2.8898			N/A
11/12/2018	CADPLN	1:30:00 PM	2.8903	2.8919			N/A
11/12/2018	CADPLN	3:30:00 PM	2.8865	2.8883			N/A
11/12/2018	CADSEK	9:30:00 AM	6.9059	6.9098			N/A
11/12/2018	CADSEK	11:30:00 AM	6.9109	6.9137			N/A
11/12/2018	CADSEK	1:30:00 PM	6.9104	6.9135			N/A
11/12/2018	CADSEK	3:30:00 PM	6.9021	6.906			N/A
11/12/2018	CADSGD	9:30:00 AM	1.047	1.0474			N/A
11/12/2018	CADSGD	11:30:00 AM	1.0472	1.0475			N/A
11/12/2018	CADSGD	1:30:00 PM					N/A
11/12/2018	CADSGD	3:30:00 PM	1.0463	1.0466			N/A
11/12/2018	CADZAR	9:30:00 AM	10.9124	10.9235			N/A
11/12/2018	CADZAR	11:30:00 AM	10.8857	10.8955			N/A
11/12/2018	CADZAR	1:30:00 PM	10.8876	10.8977			N/A
11/12/2018	CADZAR	3:30:00 PM	10.8725	10.889			N/A
11/12/2018	CHFCZK	9:30:00 AM	22.82	22.835			N/A
11/12/2018	CHFCZK	11:30:00 AM	22.83	22.833			N/A
11/12/2018	CHFCZK	1:30:00 PM					N/A

11/12/2018	CHFCZK	3:30:00 PM	22.817	22.833			N/A
11/12/2018	CHFDKK	9:30:00 AM					N/A
11/12/2018	CHFDKK	11:30:00 AM	6.566	6.57			N/A
11/12/2018	CHFDKK	1:30:00 PM	6.561	6.565			N/A
11/12/2018	CHFDKK	3:30:00 PM					N/A
11/12/2018	CHFHKD	9:30:00 AM	7.7597	7.7636			N/A
11/12/2018	CHFHKD	11:30:00 AM	7.7649	7.7665			N/A
11/12/2018	CHFHKD	1:30:00 PM	7.7576	7.7612			N/A
11/12/2018	CHFHKD	3:30:00 PM	7.7665	7.7704			N/A
11/12/2018	CHFHUF	9:30:00 AM	282.66	282.94			N/A
11/12/2018	CHFHUF	11:30:00 AM	283.06	283.43			N/A
11/12/2018	CHFHUF	1:30:00 PM	283.03	283.41			N/A
11/12/2018	CHFHUF	3:30:00 PM	282.89	283.27			N/A
11/12/2018	CHFJPY	9:30:00 AM	113.094	113.116			N/A
11/12/2018	CHFJPY	11:30:00 AM	112.936	112.953			N/A
11/12/2018	CHFJPY	1:30:00 PM	112.816	112.831			N/A
11/12/2018	CHFJPY	3:30:00 PM	112.819	112.85			N/A
11/12/2018	CHFMXN	9:30:00 AM	20.0252	20.0115			N/A
11/12/2018	CHFMXN	11:30:00 AM	20.0412	20.0496			N/A
11/12/2018	CHFMXN	1:30:00 PM	20.0671	20.0817			N/A
11/12/2018	CHFMXN	3:30:00 PM	20.1184	20.1233			N/A
11/12/2018	CHFNOK	9:30:00 AM	8.3865	8.394			N/A
11/12/2018	CHFNOK	11:30:00 AM	8.3914	8.3982			N/A
11/12/2018	CHFNOK	1:30:00 PM	8.3829	8.3912			N/A
11/12/2018	CHFNOK	3:30:00 PM	8.3881	8.3937			N/A
11/12/2018	CHFPLN	9:30:00 AM	3.775	3.778			N/A
11/12/2018	CHFPLN	11:30:00 AM	3.781	3.784			N/A
11/12/2018	CHFPLN	1:30:00 PM	3.7801	3.7834			N/A
11/12/2018	CHFPLN	3:30:00 PM	3.7775	3.7805			N/A
11/12/2018	CHFSEK	9:30:00 AM	9.0374	9.0411			N/A
11/12/2018	CHFSEK	11:30:00 AM	9.0488	9.0522			N/A
11/12/2018	CHFSEK	1:30:00 PM	9.0398	9.0433			N/A
11/12/2018	CHFSEK	3:30:00 PM	9.0379	9.0396			N/A
11/12/2018	CHFSGD	9:30:00 AM	1.3699	1.3703			N/A
11/12/2018	CHFSGD	11:30:00 AM	1.3706	1.371			N/A
11/12/2018	CHFSGD	1:30:00 PM	1.369	1.3695			N/A
11/12/2018	CHFSGD	3:30:00 PM	1.3694	1.3699			N/A
11/12/2018	CHFZAR	9:30:00 AM	14.2822	14.2894			N/A
11/12/2018	CHFZAR	11:30:00 AM	14.2556	14.2592			N/A
11/12/2018	CHFZAR	1:30:00 PM	14.2444	14.249			N/A
11/12/2018	CHFZAR	3:30:00 PM	14.2364	14.2491			N/A
11/12/2018	CZKJPY	9:30:00 AM	4.955	4.958			N/A
11/12/2018	CZKJPY	11:30:00 AM	4.949	4.949			N/A
11/12/2018	CZKJPY	1:30:00 PM	4.939	4.943			N/A
11/12/2018	CZKJPY	3:30:00 PM					N/A
11/12/2018	DKKJPY	9:30:00 AM					N/A
11/12/2018	DKKJPY	11:30:00 AM					N/A
11/12/2018	DKKJPY	1:30:00 PM					N/A
11/12/2018	DKKJPY	3:30:00 PM					N/A
11/12/2018	EURAUD	9:30:00 AM	1.56579	1.56561			N/A

11/12/2018	EURAUD	11:30:00 AM	1.56382	1.56361			N/A
11/12/2018	EURAUD	1:30:00 PM	1.56218	1.56205			N/A
11/12/2018	EURAUD	3:30:00 PM	1.56191	1.56178			N/A
11/12/2018	EURCAD	9:30:00 AM	1.48852	1.48887			N/A
11/12/2018	EURCAD	11:30:00 AM	1.48679	1.48723			N/A
11/12/2018	EURCAD	1:30:00 PM	1.48629	1.48668			N/A
11/12/2018	EURCAD	3:30:00 PM	1.48751	1.48793			N/A
11/12/2018	EURCHF	9:30:00 AM	1.13759	1.13768			N/A
11/12/2018	EURCHF	11:30:00 AM	1.13579	1.13581			N/A
11/12/2018	EURCHF	1:30:00 PM	1.13642	1.13654			N/A
11/12/2018	EURCHF	3:30:00 PM	1.13622	1.13681			N/A
11/12/2018	EURCZK	9:30:00 AM	25.953	25.988			N/A
11/12/2018	EURCZK	11:30:00 AM	25.921	25.945			N/A
11/12/2018	EURCZK	1:30:00 PM	25.937	25.975			N/A
11/12/2018	EURCZK	3:30:00 PM	25.921	25.958			N/A
11/12/2018	EURDKK	9:30:00 AM	7.4583	7.4593			N/A
11/12/2018	EURDKK	11:30:00 AM	7.4583	7.4593			N/A
11/12/2018	EURDKK	1:30:00 PM	7.4582	7.459			N/A
11/12/2018	EURDKK	3:30:00 PM	7.4589	7.46			N/A
11/12/2018	EURGBP	9:30:00 AM	0.87604	0.87568			N/A
11/12/2018	EURGBP	11:30:00 AM	0.87576	0.87554			N/A
11/12/2018	EURGBP	1:30:00 PM	0.87491	0.87467			N/A
11/12/2018	EURGBP	3:30:00 PM	0.87562	0.87571			N/A
11/12/2018	EURHKD	9:30:00 AM	8.8265	8.8309			N/A
11/12/2018	EURHKD	11:30:00 AM	8.8178	8.8197			N/A
11/12/2018	EURHKD	1:30:00 PM	8.8151	8.8196			N/A
11/12/2018	EURHKD	3:30:00 PM	8.8258	8.8298			N/A
11/12/2018	EURHUF	9:30:00 AM	321.48	322.07			N/A
11/12/2018	EURHUF	11:30:00 AM	321.38	322.1			N/A
11/12/2018	EURHUF	1:30:00 PM	321.53	322.26			N/A
11/12/2018	EURHUF	3:30:00 PM	321.37	322.1			N/A
11/12/2018	EURJPY	9:30:00 AM	128.695	128.672			N/A
11/12/2018	EURJPY	11:30:00 AM	128.31	128.263			N/A
11/12/2018	EURJPY	1:30:00 PM	128.245	128.231			N/A
11/12/2018	EURJPY	3:30:00 PM	128.264	128.242			N/A
11/12/2018	EURMXN	9:30:00 AM	22.7836	22.772			N/A
11/12/2018	EURMXN	11:30:00 AM	22.7646	22.7746			N/A
11/12/2018	EURMXN	1:30:00 PM	22.8053	22.8226			N/A
11/12/2018	EURMXN	3:30:00 PM	22.8647	22.8708			N/A
11/12/2018	EURNOK	9:30:00 AM	9.5395	9.5503			N/A
11/12/2018	EURNOK	11:30:00 AM	9.5293	9.5406			N/A
11/12/2018	EURNOK	1:30:00 PM	9.5253	9.5379			N/A
11/12/2018	EURNOK	3:30:00 PM	9.5312	9.5415			N/A
11/12/2018	EURNZD	9:30:00 AM	1.67738	1.67798			N/A
11/12/2018	EURNZD	11:30:00 AM	1.67471	1.67537			N/A
11/12/2018	EURNZD	1:30:00 PM	1.67254	1.67313			N/A
11/12/2018	EURNZD	3:30:00 PM	1.67001	1.67073			N/A
11/12/2018	EURPLN	9:30:00 AM	4.2947	4.297			N/A
11/12/2018	EURPLN	11:30:00 AM	4.2946	4.2971			N/A
11/12/2018	EURPLN	1:30:00 PM	4.2963	4.2994			N/A

11/12/2018	EURPLN	3:30:00 PM	4.2932	4.2965			N/A
11/12/2018	EURRUR	9:30:00 AM					N/A
11/12/2018	EURRUR	11:30:00 AM	75.748	76.177			N/A
11/12/2018	EURRUR	1:30:00 PM	75.955	76.392			N/A
11/12/2018	EURRUR	3:30:00 PM	75.872	76.28			N/A
11/12/2018	EURSEK	9:30:00 AM	10.2797	10.2851			N/A
11/12/2018	EURSEK	11:30:00 AM	10.2763	10.2812			N/A
11/12/2018	EURSEK	1:30:00 PM	10.2723	10.2769			N/A
11/12/2018	EURSEK	3:30:00 PM	10.2692	10.2723			N/A
11/12/2018	EURSGD	9:30:00 AM	1.5583	1.559			N/A
11/12/2018	EURSGD	11:30:00 AM	1.5566	1.5572			N/A
11/12/2018	EURSGD	1:30:00 PM	1.5558	1.5566			N/A
11/12/2018	EURSGD	3:30:00 PM	1.5562	1.557			N/A
11/12/2018	EURUSD	9:30:00 AM	1.12698	1.12694			N/A
11/12/2018	EURUSD	11:30:00 AM	1.12576	1.12545			N/A
11/12/2018	EURUSD	1:30:00 PM	1.12564	1.12557			N/A
11/12/2018	EURUSD	3:30:00 PM	1.12685	1.12674			N/A
11/12/2018	EURZAR	9:30:00 AM	16.2518	16.261			N/A
11/12/2018	EURZAR	11:30:00 AM	16.1948	16.2016			N/A
11/12/2018	EURZAR	1:30:00 PM	16.1908	16.1968			N/A
11/12/2018	EURZAR	3:30:00 PM	16.1812	16.1947			N/A
11/12/2018	GBPAUD	9:30:00 AM	1.78807	1.78791			N/A
11/12/2018	GBPAUD	11:30:00 AM	1.78604	1.7863			N/A
11/12/2018	GBPAUD	1:30:00 PM	1.7861	1.7863			N/A
11/12/2018	GBPAUD	3:30:00 PM	1.78357	1.78435			N/A
11/12/2018	GBPCAD	9:30:00 AM	1.69947	1.69963			N/A
11/12/2018	GBPCAD	11:30:00 AM	1.69783	1.69815			N/A
11/12/2018	GBPCAD	1:30:00 PM	1.6991	1.69926			N/A
11/12/2018	GBPCAD	3:30:00 PM	1.69846	1.69922			N/A
11/12/2018	GBPCHF	9:30:00 AM	1.29897	1.29875			N/A
11/12/2018	GBPCHF	11:30:00 AM	1.29714	1.29708			N/A
11/12/2018	GBPCHF	1:30:00 PM	1.2992	1.29918			N/A
11/12/2018	GBPCHF	3:30:00 PM	1.2975	1.29832			N/A
11/12/2018	GBPCZK	9:30:00 AM	29.642	29.644			N/A
11/12/2018	GBPCZK	11:30:00 AM	29.609	29.604			N/A
11/12/2018	GBPCZK	1:30:00 PM	29.665	29.677			N/A
11/12/2018	GBPCZK	3:30:00 PM	29.607	29.629			N/A
11/12/2018	GBPDKK	9:30:00 AM	8.514	8.522			N/A
11/12/2018	GBPDKK	11:30:00 AM	8.515	8.525			N/A
11/12/2018	GBPDKK	1:30:00 PM	8.524	8.532			N/A
11/12/2018	GBPDKK	3:30:00 PM	8.515	8.526			N/A
11/12/2018	GBPHKD	9:30:00 AM	10.0792	10.0792			N/A
11/12/2018	GBPHKD	11:30:00 AM	10.0667	10.0715			N/A
11/12/2018	GBPHKD	1:30:00 PM	10.0767	10.0792			N/A
11/12/2018	GBPHKD	3:30:00 PM	10.0767	10.0825			N/A
11/12/2018	GBPHUF	9:30:00 AM	367.06	367.32			N/A
11/12/2018	GBPHUF	11:30:00 AM	367.08	367.46			N/A
11/12/2018	GBPHUF	1:30:00 PM	367.67	368.04			N/A
11/12/2018	GBPHUF	3:30:00 PM	367.07	367.52			N/A
11/12/2018	GBPJPY	9:30:00 AM	146.96	146.912			N/A

11/12/2018	GBPJPY	11:30:00 AM	146.507	146.518			N/A
11/12/2018	GBPJPY	1:30:00 PM	146.591	146.601			N/A
11/12/2018	GBPJPY	3:30:00 PM	146.452	146.484			N/A
11/12/2018	GBPMXN	9:30:00 AM	26.002	25.9918			N/A
11/12/2018	GBPMXN	11:30:00 AM	25.9917	26.0008			N/A
11/12/2018	GBPMXN	1:30:00 PM	26.0669	26.0765			N/A
11/12/2018	GBPMXN	3:30:00 PM	26.1067	26.1083			N/A
11/12/2018	GBPNOK	9:30:00 AM	10.8952	10.8999			N/A
11/12/2018	GBPNOK	11:30:00 AM	10.8859	10.8925			N/A
11/12/2018	GBPNOK	1:30:00 PM	10.8931	10.9			N/A
11/12/2018	GBPNOK	3:30:00 PM	10.8859	10.8947			N/A
11/12/2018	GBPNZD	9:30:00 AM	1.91571	1.91517			N/A
11/12/2018	GBPNZD	11:30:00 AM	1.91273	1.91304			N/A
11/12/2018	GBPNZD	1:30:00 PM	1.91207	1.9125			N/A
11/12/2018	GBPNZD	3:30:00 PM	1.90715	1.90786			N/A
11/12/2018	GBPPLN	9:30:00 AM	4.9052	4.9037			N/A
11/12/2018	GBPPLN	11:30:00 AM	4.9062	4.9064			N/A
11/12/2018	GBPPLN	1:30:00 PM	4.9132	4.9135			N/A
11/12/2018	GBPPLN	3:30:00 PM	4.904	4.9057			N/A
11/12/2018	GBPSEK	9:30:00 AM	11.7382	11.7418			N/A
11/12/2018	GBPSEK	11:30:00 AM	11.7357	11.7415			N/A
11/12/2018	GBPSEK	1:30:00 PM	11.7424	11.7478			N/A
11/12/2018	GBPSEK	3:30:00 PM	11.7263	11.7335			N/A
11/12/2018	GBPSGD	9:30:00 AM	1.7796	1.7795			N/A
11/12/2018	GBPSGD	11:30:00 AM	1.7778	1.7782			N/A
11/12/2018	GBPSGD	1:30:00 PM	1.7789	1.7791			N/A
11/12/2018	GBPSGD	3:30:00 PM	1.7771	1.7777			N/A
11/12/2018	GBPUSD	9:30:00 AM	1.28726	1.28655	200	30	N/A
11/12/2018	GBPUSD	11:30:00 AM	1.28566	1.28547			N/A
11/12/2018	GBPUSD	1:30:00 PM	1.28703	1.28673	20	20	N/A
11/12/2018	GBPUSD	3:30:00 PM	1.28692	1.28695			N/A
11/12/2018	GBPZAR	9:30:00 AM	18.551	18.5632			N/A
11/12/2018	GBPZAR	11:30:00 AM	18.4925	18.5026			N/A
11/12/2018	GBPZAR	1:30:00 PM	18.5046	18.5166			N/A
11/12/2018	GBPZAR	3:30:00 PM	18.4745	18.4965			N/A
11/12/2018	GOLD	9:30:00 AM	1205.99	1206.1			N/A
11/12/2018	GOLD	11:30:00 AM	1207.25	1207.2			N/A
11/12/2018	GOLD	1:30:00 PM	1206.8	1206.64			N/A
11/12/2018	GOLD	3:30:00 PM	1205	1205.09			N/A
11/12/2018	HKDJPY	9:30:00 AM	14.58	14.59			N/A
11/12/2018	HKDJPY	11:30:00 AM					N/A
11/12/2018	HKDJPY	1:30:00 PM	14.55	14.56			N/A
11/12/2018	HKDJPY	3:30:00 PM					N/A
11/12/2018	HUFJPY	9:30:00 AM	0.4004	0.4006			N/A
11/12/2018	HUFJPY	11:30:00 AM	0.3991	0.3994			N/A
11/12/2018	HUFJPY	1:30:00 PM	0.3985	0.3988			N/A
11/12/2018	HUFJPY	3:30:00 PM	0.3988	0.3991			N/A
11/12/2018	MXNJPY	9:30:00 AM	5.65	5.67			N/A
11/12/2018	MXNJPY	11:30:00 AM	5.64	5.65			N/A
11/12/2018	MXNJPY	1:30:00 PM					N/A

11/12/2018	MXNJPY	3:30:00 PM					N/A
11/12/2018	NOKJPY	9:30:00 AM	13.48	13.51			N/A
11/12/2018	NOKJPY	11:30:00 AM					N/A
11/12/2018	NOKJPY	1:30:00 PM					N/A
11/12/2018	NOKJPY	3:30:00 PM					N/A
11/12/2018	NZDCAD	9:30:00 AM	0.88706	0.88754			N/A
11/12/2018	NZDCAD	11:30:00 AM	0.88733	0.88794			N/A
11/12/2018	NZDCAD	1:30:00 PM	0.88823	0.88882			N/A
11/12/2018	NZDCAD	3:30:00 PM	0.89026	0.89089			N/A
11/12/2018	NZDCHF	9:30:00 AM	0.67778	0.67841			N/A
11/12/2018	NZDCHF	11:30:00 AM	0.67776	0.67838			N/A
11/12/2018	NZDCHF	1:30:00 PM	0.67904	0.67969			N/A
11/12/2018	NZDCHF	3:30:00 PM	0.68006	0.68074			N/A
11/12/2018	NZDCZK	9:30:00 AM	15.468	15.479			N/A
11/12/2018	NZDCZK	11:30:00 AM	15.475	15.479			N/A
11/12/2018	NZDCZK	1:30:00 PM	15.509	15.52			N/A
11/12/2018	NZDCZK	3:30:00 PM	15.519	15.531			N/A
11/12/2018	NZDDKK	9:30:00 AM					N/A
11/12/2018	NZDDKK	11:30:00 AM	4.451	4.454			N/A
11/12/2018	NZDDKK	1:30:00 PM					N/A
11/12/2018	NZDDKK	3:30:00 PM					N/A
11/12/2018	NZDHKD	9:30:00 AM	5.2599	5.2621			N/A
11/12/2018	NZDHKD	11:30:00 AM	5.2635	5.2647			N/A
11/12/2018	NZDHKD	1:30:00 PM	5.2675	5.2703			N/A
11/12/2018	NZDHKD	3:30:00 PM	5.2816	5.2844			N/A
11/12/2018	NZDHUF	9:30:00 AM	191.58	191.81			N/A
11/12/2018	NZDHUF	11:30:00 AM	191.85	192.13			N/A
11/12/2018	NZDHUF	1:30:00 PM	192.2	192.48			N/A
11/12/2018	NZDHUF	3:30:00 PM	192.4	192.68			N/A
11/12/2018	NZDJPY	9:30:00 AM	76.679	76.729			N/A
11/12/2018	NZDJPY	11:30:00 AM	76.566	76.624			N/A
11/12/2018	NZDJPY	1:30:00 PM	76.625	76.69			N/A
11/12/2018	NZDJPY	3:30:00 PM	76.753	76.812			N/A
11/12/2018	NZDMXN	9:30:00 AM	13.5776	13.562			N/A
11/12/2018	NZDMXN	11:30:00 AM	13.5861	13.5887			N/A
11/12/2018	NZDMXN	1:30:00 PM	13.6287	13.6343			N/A
11/12/2018	NZDMXN	3:30:00 PM	13.6846	13.6847			N/A
11/12/2018	NZDNOK	9:30:00 AM	5.6849	5.6887			N/A
11/12/2018	NZDNOK	11:30:00 AM	5.6885	5.6918			N/A
11/12/2018	NZDNOK	1:30:00 PM	5.6935	5.697			N/A
11/12/2018	NZDNOK	3:30:00 PM	5.7053	5.7088			N/A
11/12/2018	NZDPLN	9:30:00 AM	2.5594	2.5606			N/A
11/12/2018	NZDPLN	11:30:00 AM	2.563	2.5644			N/A
11/12/2018	NZDPLN	1:30:00 PM	2.5671	2.5682			N/A
11/12/2018	NZDPLN	3:30:00 PM	2.5699	2.5712			N/A
11/12/2018	NZDSEK	9:30:00 AM	6.1231	6.1297			N/A
11/12/2018	NZDSEK	11:30:00 AM	6.1305	6.1372			N/A
11/12/2018	NZDSEK	1:30:00 PM	6.136	6.1423			N/A
11/12/2018	NZDSEK	3:30:00 PM	6.1434	6.15			N/A
11/12/2018	NZDSGD	9:30:00 AM	0.929	0.9295			N/A

11/12/2018	NZDSGD	11:30:00 AM	0.9294	0.9299			N/A
11/12/2018	NZDSGD	1:30:00 PM	0.9301	0.9307			N/A
11/12/2018	NZDSGD	3:30:00 PM	0.9317	0.9324			N/A
11/12/2018	NZDUSD	9:30:00 AM	0.67177	0.67161			N/A
11/12/2018	NZDUSD	11:30:00 AM	0.67208	0.67187			N/A
11/12/2018	NZDUSD	1:30:00 PM	0.67284	0.67283			N/A
11/12/2018	NZDUSD	3:30:00 PM	0.67458	0.67445			N/A
11/12/2018	NZDZAR	9:30:00 AM	9.6766	9.6898			N/A
11/12/2018	NZDZAR	11:30:00 AM	9.6588	9.6687			N/A
11/12/2018	NZDZAR	1:30:00 PM	9.6696	9.6801			N/A
11/12/2018	NZDZAR	3:30:00 PM	9.6784	9.6941			N/A
11/12/2018	SEKJPY	9:30:00 AM	12.52	12.53			N/A
11/12/2018	SEKJPY	11:30:00 AM	12.48	12.5			N/A
11/12/2018	SEKJPY	1:30:00 PM					N/A
11/12/2018	SEKJPY	3:30:00 PM					N/A
11/12/2018	SGDJPY	9:30:00 AM	82.55	82.56			N/A
11/12/2018	SGDJPY	11:30:00 AM	82.38	82.4			N/A
11/12/2018	SGDJPY	1:30:00 PM	82.38	82.41			N/A
11/12/2018	SGDJPY	3:30:00 PM	82.37	82.39			N/A
11/12/2018	SILVER	9:30:00 AM	13.97	14.34			N/A
11/12/2018	SILVER	11:30:00 AM	13.98	14.35			N/A
11/12/2018	SILVER	1:30:00 PM	13.96	14.32			N/A
11/12/2018	SILVER	3:30:00 PM	13.9	14.27			N/A
11/12/2018	USDCAD	9:30:00 AM	1.32074	1.32066			N/A
11/12/2018	USDCAD	11:30:00 AM	1.3209	1.32067			N/A
11/12/2018	USDCAD	1:30:00 PM	1.32038	1.32032			N/A
11/12/2018	USDCAD	3:30:00 PM	1.32015	1.32004			N/A
11/12/2018	USDCHF	9:30:00 AM	1.0093	1.00933			N/A
11/12/2018	USDCHF	11:30:00 AM	1.00901	1.0088			N/A
11/12/2018	USDCHF	1:30:00 PM	1.00954	1.00959			N/A
11/12/2018	USDCHF	3:30:00 PM	1.0082	1.00886			N/A
11/12/2018	USDCZK	9:30:00 AM	23.026	23.049			N/A
11/12/2018	USDCZK	11:30:00 AM	23.029	23.034			N/A
11/12/2018	USDCZK	1:30:00 PM	23.047	23.071			N/A
11/12/2018	USDCZK	3:30:00 PM	23.007	23.029			N/A
11/12/2018	USDDKK	9:30:00 AM	6.6184	6.6233			N/A
11/12/2018	USDDKK	11:30:00 AM	6.6271	6.6301			N/A
11/12/2018	USDDKK	1:30:00 PM	6.6263	6.6313			N/A
11/12/2018	USDDKK	3:30:00 PM	6.6202	6.6248			N/A
11/12/2018	USDHKD	9:30:00 AM					N/A
11/12/2018	USDHKD	11:30:00 AM	7.8335	7.8336			N/A
11/12/2018	USDHKD	1:30:00 PM	7.8326	7.8327			N/A
11/12/2018	USDHKD	3:30:00 PM	7.8335	7.8339			N/A
11/12/2018	USDHUF	9:30:00 AM	285.32	285.65			N/A
11/12/2018	USDHUF	11:30:00 AM	285.58	285.99			N/A
11/12/2018	USDHUF	1:30:00 PM	285.71	286.17			N/A
11/12/2018	USDHUF	3:30:00 PM	285.28	285.71			N/A
11/12/2018	USDJPY	9:30:00 AM	114.186	114.175			N/A
11/12/2018	USDJPY	11:30:00 AM	113.97	113.968			N/A
11/12/2018	USDJPY	1:30:00 PM	113.93	113.922			N/A

11/12/2018	USDJPY	3:30:00 PM	113.821	113.817			N/A
11/12/2018	USDMXN	9:30:00 AM	20.219	20.198			N/A
11/12/2018	USDMXN	11:30:00 AM	20.227	20.228			N/A
11/12/2018	USDMXN	1:30:00 PM	20.262	20.27			N/A
11/12/2018	USDMXN	3:30:00 PM	20.296	20.289			N/A
11/12/2018	USDNOK	9:30:00 AM	8.4649	8.4732			N/A
11/12/2018	USDNOK	11:30:00 AM	8.4683	8.4734			N/A
11/12/2018	USDNOK	1:30:00 PM	8.4639	8.4727			N/A
11/12/2018	USDNOK	3:30:00 PM	8.4602	8.4666			N/A
11/12/2018	USDPLN	9:30:00 AM	3.8113	3.8118			N/A
11/12/2018	USDPLN	11:30:00 AM	3.8158	3.8166			N/A
11/12/2018	USDPLN	1:30:00 PM	3.8172	3.8184			N/A
11/12/2018	USDPLN	3:30:00 PM	3.8107	3.8117			N/A
11/12/2018	USDRUR	9:30:00 AM					N/A
11/12/2018	USDRUR	11:30:00 AM	67.369	67.744			N/A
11/12/2018	USDRUR	1:30:00 PM	67.554	67.929			N/A
11/12/2018	USDRUR	3:30:00 PM	67.403	67.76			N/A
11/12/2018	USDSEK	9:30:00 AM	9.1192	9.1236			N/A
11/12/2018	USDSEK	11:30:00 AM	9.1279	9.1302			N/A
11/12/2018	USDSEK	1:30:00 PM	9.1238	9.1276			N/A
11/12/2018	USDSEK	3:30:00 PM	9.1118	9.1143			N/A
11/12/2018	USDSGD	9:30:00 AM	1.3827	1.383			N/A
11/12/2018	USDSGD	11:30:00 AM	1.3828	1.3832			N/A
11/12/2018	USDSGD	1:30:00 PM	1.3821	1.3825			N/A
11/12/2018	USDSGD	3:30:00 PM	1.3811	1.3814			N/A
11/12/2018	USDZAR	9:30:00 AM	14.419	14.4262			N/A
11/12/2018	USDZAR	11:30:00 AM	14.3863	14.3903			N/A
11/12/2018	USDZAR	1:30:00 PM	14.3819	14.3895			N/A
11/12/2018	USDZAR	3:30:00 PM	14.3581	14.3691			N/A
11/12/2018	XAUUSD	9:30:00 AM	1205.99	1206.1			N/A
11/12/2018	XAUUSD	11:30:00 AM	1207.25	1207.23			N/A
11/12/2018	XAUUSD	1:30:00 PM	1206.8	1206.66			N/A
11/12/2018	XAUUSD	3:30:00 PM	1205	1205.09			N/A
11/12/2018	ZARJPY	9:30:00 AM					N/A
11/12/2018	ZARJPY	11:30:00 AM	7.86	7.9			N/A
11/12/2018	ZARJPY	1:30:00 PM					N/A
11/12/2018	ZARJPY	3:30:00 PM	7.87	7.91			N/A
11/13/2018	#AA	9:30:00 AM					N/A
11/13/2018	#AA	11:30:00 AM					N/A
11/13/2018	#AA	1:30:00 PM					N/A
11/13/2018	#AA	3:30:00 PM					N/A
11/13/2018	#AABA	9:30:00 AM					N/A
11/13/2018	#AABA	11:30:00 AM					N/A
11/13/2018	#AABA	1:30:00 PM					N/A
11/13/2018	#AABA	3:30:00 PM					N/A
11/13/2018	#AAL	9:30:00 AM					N/A
11/13/2018	#AAL	11:30:00 AM					N/A
11/13/2018	#AAL	1:30:00 PM					N/A
11/13/2018	#AAL	3:30:00 PM					N/A
11/13/2018	#AAPL	9:30:00 AM					N/A

11/13/2018	#AAPL	11:30:00 AM					N/A
11/13/2018	#AAPL	1:30:00 PM					N/A
11/13/2018	#AAPL	3:30:00 PM					N/A
11/13/2018	#ADBE	9:30:00 AM					N/A
11/13/2018	#ADBE	11:30:00 AM					N/A
11/13/2018	#ADBE	1:30:00 PM					N/A
11/13/2018	#ADBE	3:30:00 PM					N/A
11/13/2018	#AIG	9:30:00 AM					N/A
11/13/2018	#AIG	11:30:00 AM					N/A
11/13/2018	#AIG	1:30:00 PM					N/A
11/13/2018	#AIG	3:30:00 PM					N/A
11/13/2018	#AMD	9:30:00 AM					N/A
11/13/2018	#AMD	11:30:00 AM					N/A
11/13/2018	#AMD	1:30:00 PM					N/A
11/13/2018	#AMD	3:30:00 PM					N/A
11/13/2018	#AMZN	9:30:00 AM					N/A
11/13/2018	#AMZN	11:30:00 AM					N/A
11/13/2018	#AMZN	1:30:00 PM					N/A
11/13/2018	#AMZN	3:30:00 PM					N/A
11/13/2018	#AXP	9:30:00 AM					N/A
11/13/2018	#AXP	11:30:00 AM					N/A
11/13/2018	#AXP	1:30:00 PM					N/A
11/13/2018	#AXP	3:30:00 PM					N/A
11/13/2018	#BA	9:30:00 AM					N/A
11/13/2018	#BA	11:30:00 AM					N/A
11/13/2018	#BA	1:30:00 PM					N/A
11/13/2018	#BA	3:30:00 PM					N/A
11/13/2018	#BABA	9:30:00 AM					N/A
11/13/2018	#BABA	11:30:00 AM					N/A
11/13/2018	#BABA	1:30:00 PM					N/A
11/13/2018	#BABA	3:30:00 PM					N/A
11/13/2018	#BAC	9:30:00 AM					N/A
11/13/2018	#BAC	11:30:00 AM					N/A
11/13/2018	#BAC	1:30:00 PM					N/A
11/13/2018	#BAC	3:30:00 PM					N/A
11/13/2018	#BARC	9:30:00 AM					N/A
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11/13/2018	#XOM	1:30:00 PM					N/A
11/13/2018	#XOM	3:30:00 PM					N/A
11/13/2018	#YHOO	9:30:00 AM					N/A
11/13/2018	#YHOO	11:30:00 AM					N/A
11/13/2018	#YHOO	1:30:00 PM					N/A
11/13/2018	#YHOO	3:30:00 PM					N/A
11/13/2018	#ZNGA	9:30:00 AM					N/A

11/13/2018	#ZNGA	11:30:00 AM					N/A
11/13/2018	#ZNGA	1:30:00 PM					N/A
11/13/2018	#ZNGA	3:30:00 PM					N/A
11/13/2018	AUDCAD	9:30:00 AM	0.9532	0.9539			N/A
11/13/2018	AUDCAD	11:30:00 AM	0.95223	0.95262			N/A
11/13/2018	AUDCAD	1:30:00 PM	0.95269	0.9533			N/A
11/13/2018	AUDCAD	3:30:00 PM	0.95296	0.95359			N/A
11/13/2018	AUDCHF	9:30:00 AM	0.72777	0.7284			N/A
11/13/2018	AUDCHF	11:30:00 AM	0.72716	0.7276			N/A
11/13/2018	AUDCHF	1:30:00 PM	0.72696	0.72764			N/A
11/13/2018	AUDCHF	3:30:00 PM	0.72741	0.72795			N/A
11/13/2018	AUDCZK	9:30:00 AM	16.612	16.629			N/A
11/13/2018	AUDCZK	11:30:00 AM	16.609	16.625			N/A
11/13/2018	AUDCZK	1:30:00 PM	16.601	16.617			N/A
11/13/2018	AUDCZK	3:30:00 PM	16.582	16.597			N/A
11/13/2018	AUDDKK	9:30:00 AM	4.7808	4.7853			N/A
11/13/2018	AUDDKK	11:30:00 AM	4.7753	4.7795			N/A
11/13/2018	AUDDKK	1:30:00 PM	4.7745	4.7787			N/A
11/13/2018	AUDDKK	3:30:00 PM	4.772	4.776			N/A
11/13/2018	AUDHKD	9:30:00 AM	5.6436	5.6462			N/A
11/13/2018	AUDHKD	11:30:00 AM	5.6324	5.6348			N/A
11/13/2018	AUDHKD	1:30:00 PM	5.636	5.6392			N/A
11/13/2018	AUDHKD	3:30:00 PM	5.6415	5.6426			N/A
11/13/2018	AUDHUF	9:30:00 AM	206.49	206.72			N/A
11/13/2018	AUDHUF	11:30:00 AM	206.34	206.54			N/A
11/13/2018	AUDHUF	1:30:00 PM	206.45	206.66			N/A
11/13/2018	AUDHUF	3:30:00 PM	206.36	206.5			N/A
11/13/2018	AUDJPY	9:30:00 AM	82.114	82.165			N/A
11/13/2018	AUDJPY	11:30:00 AM	82.1	82.128			N/A
11/13/2018	AUDJPY	1:30:00 PM	82.099	82.161			N/A
11/13/2018	AUDJPY	3:30:00 PM	82.086	82.131			N/A
11/13/2018	AUDMXN	9:30:00 AM	14.6017	14.6095			N/A
11/13/2018	AUDMXN	11:30:00 AM	14.6806	14.687			N/A
11/13/2018	AUDMXN	1:30:00 PM	14.6937	14.703			N/A
11/13/2018	AUDMXN	3:30:00 PM	14.7245	14.7224			N/A
11/13/2018	AUDNOK	9:30:00 AM	6.1308	6.1366			N/A
11/13/2018	AUDNOK	11:30:00 AM	6.1173	6.1231			N/A
11/13/2018	AUDNOK	1:30:00 PM	6.1173	6.1226			N/A
11/13/2018	AUDNOK	3:30:00 PM	6.1089	6.1134			N/A
11/13/2018	AUDNZD	9:30:00 AM	1.0678	1.06853			N/A
11/13/2018	AUDNZD	11:30:00 AM	1.06736	1.06765			N/A
11/13/2018	AUDNZD	1:30:00 PM	1.06685	1.06753			N/A
11/13/2018	AUDNZD	3:30:00 PM	1.06701	1.06773			N/A
11/13/2018	AUDPLN	9:30:00 AM	2.7539	2.757			N/A
11/13/2018	AUDPLN	11:30:00 AM	2.7494	2.7521			N/A
11/13/2018	AUDPLN	1:30:00 PM	2.7525	2.7547			N/A
11/13/2018	AUDPLN	3:30:00 PM	2.748	2.7508			N/A
11/13/2018	AUDSEK	9:30:00 AM	6.5779	6.581			N/A
11/13/2018	AUDSEK	11:30:00 AM	6.5583	6.5617			N/A
11/13/2018	AUDSEK	1:30:00 PM	6.5474	6.5506			N/A

11/13/2018	AUDSEK	3:30:00 PM	6.5414	6.5438			N/A
11/13/2018	AUDSGD	9:30:00 AM	0.9962	0.9965			N/A
11/13/2018	AUDSGD	11:30:00 AM	0.9953	0.9955			N/A
11/13/2018	AUDSGD	1:30:00 PM	0.9952	0.9955			N/A
11/13/2018	AUDSGD	3:30:00 PM	0.9955	0.9958			N/A
11/13/2018	AUDUSD	9:30:00 AM	0.72092	0.72079			N/A
11/13/2018	AUDUSD	11:30:00 AM	0.71975	0.71944			N/A
11/13/2018	AUDUSD	1:30:00 PM	0.72025	0.72017			N/A
11/13/2018	AUDUSD	3:30:00 PM	0.72095	0.72061			N/A
11/13/2018	AUDZAR	9:30:00 AM	10.3431	10.3552			N/A
11/13/2018	AUDZAR	11:30:00 AM	10.4122	10.4193			N/A
11/13/2018	AUDZAR	1:30:00 PM	10.4104	10.4227			N/A
11/13/2018	AUDZAR	3:30:00 PM	10.3951	10.4037			N/A
11/13/2018	CADCHF	9:30:00 AM	0.76322	0.76389			N/A
11/13/2018	CADCHF	11:30:00 AM	0.76338	0.76405			N/A
11/13/2018	CADCHF	1:30:00 PM	0.76284	0.76351			N/A
11/13/2018	CADCHF	3:30:00 PM	0.76308	0.76362			N/A
11/13/2018	CADCZK	9:30:00 AM	17.426	17.443			N/A
11/13/2018	CADCZK	11:30:00 AM	17.445	17.458			N/A
11/13/2018	CADCZK	1:30:00 PM	17.427	17.441			N/A
11/13/2018	CADCZK	3:30:00 PM	17.4	17.416			N/A
11/13/2018	CADDDKK	9:30:00 AM					N/A
11/13/2018	CADDDKK	11:30:00 AM	5.015	5.019			N/A
11/13/2018	CADDDKK	1:30:00 PM					N/A
11/13/2018	CADDDKK	3:30:00 PM					N/A
11/13/2018	CADHKD	9:30:00 AM	5.9196	5.9226			N/A
11/13/2018	CADHKD	11:30:00 AM	5.9149	5.9188			N/A
11/13/2018	CADHKD	1:30:00 PM	5.9151	5.919			N/A
11/13/2018	CADHKD	3:30:00 PM	5.9188	5.9213			N/A
11/13/2018	CADHUF	9:30:00 AM	216.65	216.8			N/A
11/13/2018	CADHUF	11:30:00 AM	216.74	216.88			N/A
11/13/2018	CADHUF	1:30:00 PM	216.72	216.87			N/A
11/13/2018	CADHUF	3:30:00 PM	216.58	216.65			N/A
11/13/2018	CADJPY	9:30:00 AM	86.114	86.166			N/A
11/13/2018	CADJPY	11:30:00 AM	86.19	86.245			N/A
11/13/2018	CADJPY	1:30:00 PM	86.151	86.214			N/A
11/13/2018	CADJPY	3:30:00 PM	86.111	86.156			N/A
11/13/2018	CADMXN	9:30:00 AM	15.3177	15.3256			N/A
11/13/2018	CADMXN	11:30:00 AM	15.419	15.4239			N/A
11/13/2018	CADMXN	1:30:00 PM	15.4225	15.4313			N/A
11/13/2018	CADMXN	3:30:00 PM	15.4525	15.449			N/A
11/13/2018	CADNOK	9:30:00 AM	6.4321	6.4368			N/A
11/13/2018	CADNOK	11:30:00 AM	6.4268	6.4295			N/A
11/13/2018	CADNOK	1:30:00 PM	6.4212	6.4253			N/A
11/13/2018	CADNOK	3:30:00 PM	6.4101	6.4141			N/A
11/13/2018	CADPLN	9:30:00 AM	2.8883	2.8902			N/A
11/13/2018	CADPLN	11:30:00 AM	2.8876	2.8895			N/A
11/13/2018	CADPLN	1:30:00 PM	2.8887	2.8907			N/A
11/13/2018	CADPLN	3:30:00 PM	2.8833	2.8853			N/A
11/13/2018	CADSEK	9:30:00 AM	6.8985	6.9021			N/A

11/13/2018	CADSEK	11:30:00 AM	6.8884	6.8899			N/A
11/13/2018	CADSEK	1:30:00 PM	6.8711	6.874			N/A
11/13/2018	CADSEK	3:30:00 PM	6.8621	6.8654			N/A
11/13/2018	CADSGD	9:30:00 AM	1.0452	1.0455			N/A
11/13/2018	CADSGD	11:30:00 AM	1.0454	1.0457			N/A
11/13/2018	CADSGD	1:30:00 PM	1.0446	1.0449			N/A
11/13/2018	CADSGD	3:30:00 PM	1.0446	1.045			N/A
11/13/2018	CADZAR	9:30:00 AM	10.8434	10.8579			N/A
11/13/2018	CADZAR	11:30:00 AM	10.9336	10.9361			N/A
11/13/2018	CADZAR	1:30:00 PM	10.921	10.9343			N/A
11/13/2018	CADZAR	3:30:00 PM	10.9007	10.9121			N/A
11/13/2018	CHFCZK	9:30:00 AM	22.827	22.841			N/A
11/13/2018	CHFCZK	11:30:00 AM	22.848	22.857			N/A
11/13/2018	CHFCZK	1:30:00 PM	22.837	22.851			N/A
11/13/2018	CHFCZK	3:30:00 PM	22.797	22.813			N/A
11/13/2018	CHFDKK	9:30:00 AM	6.568	6.572			N/A
11/13/2018	CHFDKK	11:30:00 AM	6.568	6.57			N/A
11/13/2018	CHFDKK	1:30:00 PM					N/A
11/13/2018	CHFDKK	3:30:00 PM					N/A
11/13/2018	CHFHKD	9:30:00 AM	7.7536	7.7568			N/A
11/13/2018	CHFHKD	11:30:00 AM	7.7461	7.7489			N/A
11/13/2018	CHFHKD	1:30:00 PM	7.7518	7.755			N/A
11/13/2018	CHFHKD	3:30:00 PM	7.7535	7.7566			N/A
11/13/2018	CHFHUF	9:30:00 AM	283.67	284			N/A
11/13/2018	CHFHUF	11:30:00 AM	283.74	284.07			N/A
11/13/2018	CHFHUF	1:30:00 PM	283.92	284.26			N/A
11/13/2018	CHFHUF	3:30:00 PM	283.61	283.9			N/A
11/13/2018	CHFJPY	9:30:00 AM	112.783	112.804			N/A
11/13/2018	CHFJPY	11:30:00 AM	112.865	112.883			N/A
11/13/2018	CHFJPY	1:30:00 PM	112.896	112.907			N/A
11/13/2018	CHFJPY	3:30:00 PM	112.803	112.83			N/A
11/13/2018	CHFMXN	9:30:00 AM	20.061	20.072			N/A
11/13/2018	CHFMXN	11:30:00 AM	20.1887	20.1962			N/A
11/13/2018	CHFMXN	1:30:00 PM	20.2086	20.224			N/A
11/13/2018	CHFMXN	3:30:00 PM	20.2417	20.2358			N/A
11/13/2018	CHFNOK	9:30:00 AM	8.4238	8.4307			N/A
11/13/2018	CHFNOK	11:30:00 AM	8.4143	8.4196			N/A
11/13/2018	CHFNOK	1:30:00 PM	8.4132	8.4197			N/A
11/13/2018	CHFNOK	3:30:00 PM	8.3972	8.4029			N/A
11/13/2018	CHFPLN	9:30:00 AM	3.7829	3.7856			N/A
11/13/2018	CHFPLN	11:30:00 AM	3.7806	3.7829			N/A
11/13/2018	CHFPLN	1:30:00 PM	3.7849	3.7867			N/A
11/13/2018	CHFPLN	3:30:00 PM	3.7768	3.7798			N/A
11/13/2018	CHFSEK	9:30:00 AM	9.0374	9.0402			N/A
11/13/2018	CHFSEK	11:30:00 AM	9.02	9.0216			N/A
11/13/2018	CHFSEK	1:30:00 PM	9.0051	9.0077			N/A
11/13/2018	CHFSEK	3:30:00 PM	8.9908	8.9947			N/A
11/13/2018	CHFSGD	9:30:00 AM	1.3684	1.369			N/A
11/13/2018	CHFSGD	11:30:00 AM	1.3685	1.3689			N/A
11/13/2018	CHFSGD	1:30:00 PM	1.3685	1.3689			N/A

11/13/2018	CHFSGD	3:30:00 PM	1.3681	1.3685			N/A
11/13/2018	CHFZAR	9:30:00 AM	14.2062	14.2161			N/A
11/13/2018	CHFZAR	11:30:00 AM	14.3204	14.3157			N/A
11/13/2018	CHFZAR	1:30:00 PM	14.3137	14.323			N/A
11/13/2018	CHFZAR	3:30:00 PM	14.2861	14.2896			N/A
11/13/2018	CZKJPY	9:30:00 AM	4.94	4.943			N/A
11/13/2018	CZKJPY	11:30:00 AM	4.94	4.942			N/A
11/13/2018	CZKJPY	1:30:00 PM					N/A
11/13/2018	CZKJPY	3:30:00 PM	4.947	4.951			N/A
11/13/2018	DKKJPY	9:30:00 AM	17.17	17.19			N/A
11/13/2018	DKKJPY	11:30:00 AM	17.19	17.2			N/A
11/13/2018	DKKJPY	1:30:00 PM	17.2	17.22			N/A
11/13/2018	DKKJPY	3:30:00 PM					N/A
11/13/2018	EURAUD	9:30:00 AM	1.55946	1.5593			N/A
11/13/2018	EURAUD	11:30:00 AM	1.56145	1.56125			N/A
11/13/2018	EURAUD	1:30:00 PM	1.56188	1.56149			N/A
11/13/2018	EURAUD	3:30:00 PM	1.56268	1.56247			N/A
11/13/2018	EURCAD	9:30:00 AM	1.48725	1.48764			N/A
11/13/2018	EURCAD	11:30:00 AM	1.48743	1.48767			N/A
11/13/2018	EURCAD	1:30:00 PM	1.48853	1.48882			N/A
11/13/2018	EURCAD	3:30:00 PM	1.48981	1.49017			N/A
11/13/2018	EURCHF	9:30:00 AM	1.1356	1.13559			N/A
11/13/2018	EURCHF	11:30:00 AM	1.13607	1.13583			N/A
11/13/2018	EURCHF	1:30:00 PM	1.13612	1.13599			N/A
11/13/2018	EURCHF	3:30:00 PM	1.13701	1.13766			N/A
11/13/2018	EURCZK	9:30:00 AM	25.912	25.951			N/A
11/13/2018	EURCZK	11:30:00 AM	25.938	25.972			N/A
11/13/2018	EURCZK	1:30:00 PM					N/A
11/13/2018	EURCZK	3:30:00 PM	25.918	25.954			N/A
11/13/2018	EURDKK	9:30:00 AM	7.4595	7.4607			N/A
11/13/2018	EURDKK	11:30:00 AM	7.4599	7.4611			N/A
11/13/2018	EURDKK	1:30:00 PM	7.4602	7.4614			N/A
11/13/2018	EURDKK	3:30:00 PM	7.4607	7.4615			N/A
11/13/2018	EURGBP	9:30:00 AM	0.8735	0.87357			N/A
11/13/2018	EURGBP	11:30:00 AM	0.87099	0.87055			N/A
11/13/2018	EURGBP	1:30:00 PM	0.87067	0.87055			N/A
11/13/2018	EURGBP	3:30:00 PM	0.86876	0.86846			N/A
11/13/2018	EURHKD	9:30:00 AM	8.8031	8.8072			N/A
11/13/2018	EURHKD	11:30:00 AM	8.7985	8.8007			N/A
11/13/2018	EURHKD	1:30:00 PM	8.8054	8.808			N/A
11/13/2018	EURHKD	3:30:00 PM	8.8173	8.8209			N/A
11/13/2018	EURHUF	9:30:00 AM	322	322.67			N/A
11/13/2018	EURHUF	11:30:00 AM	322.19	322.87			N/A
11/13/2018	EURHUF	1:30:00 PM	322.43	323.14			N/A
11/13/2018	EURHUF	3:30:00 PM	322.47	323.09			N/A
11/13/2018	EURJPY	9:30:00 AM	128.125	128.083			N/A
11/13/2018	EURJPY	11:30:00 AM	128.26	128.2			N/A
11/13/2018	EURJPY	1:30:00 PM	128.299	128.262			N/A
11/13/2018	EURJPY	3:30:00 PM	128.33	128.314			N/A
11/13/2018	EURMXN	9:30:00 AM	22.7807	22.7931			N/A

11/13/2018	EURMXN	11:30:00 AM	22.9329	22.9462			N/A
11/13/2018	EURMXN	1:30:00 PM	22.9578	22.9736			N/A
11/13/2018	EURMXN	3:30:00 PM	23.0225	23.0182			N/A
11/13/2018	EURNOK	9:30:00 AM	9.5644	9.5759			N/A
11/13/2018	EURNOK	11:30:00 AM	9.5553	9.5672			N/A
11/13/2018	EURNOK	1:30:00 PM	9.5559	9.5671			N/A
11/13/2018	EURNOK	3:30:00 PM	9.5483	9.5585			N/A
11/13/2018	EURNZD	9:30:00 AM	1.66576	1.66648			N/A
11/13/2018	EURNZD	11:30:00 AM	1.66708	1.6674			N/A
11/13/2018	EURNZD	1:30:00 PM	1.66673	1.66738			N/A
11/13/2018	EURNZD	3:30:00 PM	1.66796	1.66859			N/A
11/13/2018	EURPLN	9:30:00 AM	4.2961	4.2994			N/A
11/13/2018	EURPLN	11:30:00 AM	4.2941	4.2974			N/A
11/13/2018	EURPLN	1:30:00 PM	4.2997	4.3021			N/A
11/13/2018	EURPLN	3:30:00 PM	4.2955	4.2988			N/A
11/13/2018	EURRUR	9:30:00 AM					N/A
11/13/2018	EURRUR	11:30:00 AM	75.75	76.175			N/A
11/13/2018	EURRUR	1:30:00 PM	75.898	76.335			N/A
11/13/2018	EURRUR	3:30:00 PM	75.886	76.274			N/A
11/13/2018	EURSEK	9:30:00 AM	10.2611	10.266			N/A
11/13/2018	EURSEK	11:30:00 AM	10.244	10.2487			N/A
11/13/2018	EURSEK	1:30:00 PM	10.2283	10.2328			N/A
11/13/2018	EURSEK	3:30:00 PM	10.2242	10.2296			N/A
11/13/2018	EURSGD	9:30:00 AM	1.5538	1.5546			N/A
11/13/2018	EURSGD	11:30:00 AM	1.5545	1.555			N/A
11/13/2018	EURSGD	1:30:00 PM	1.5545	1.555			N/A
11/13/2018	EURSGD	3:30:00 PM	1.5558	1.5565			N/A
11/13/2018	EURUSD	9:30:00 AM	1.12405	1.12401			N/A
11/13/2018	EURUSD	11:30:00 AM	1.12371	1.12338			N/A
11/13/2018	EURUSD	1:30:00 PM	1.1248	1.12456			N/A
11/13/2018	EURUSD	3:30:00 PM	1.12644	1.12622			N/A
11/13/2018	EURZAR	9:30:00 AM	16.1368	16.1501			N/A
11/13/2018	EURZAR	11:30:00 AM	16.2619	16.2699			N/A
11/13/2018	EURZAR	1:30:00 PM	16.2642	16.2782			N/A
11/13/2018	EURZAR	3:30:00 PM	16.2498	16.2574			N/A
11/13/2018	GBPAUD	9:30:00 AM	1.78525	1.78585			N/A
11/13/2018	GBPAUD	11:30:00 AM	1.79379	1.79343			N/A
11/13/2018	GBPAUD	1:30:00 PM	1.79383	1.79432			N/A
11/13/2018	GBPAUD	3:30:00 PM	1.79962	1.79921			N/A
11/13/2018	GBPCAD	9:30:00 AM	1.70226	1.70296			N/A
11/13/2018	GBPCAD	11:30:00 AM	1.70815	1.70813			N/A
11/13/2018	GBPCAD	1:30:00 PM	1.70954	1.70993			N/A
11/13/2018	GBPCAD	3:30:00 PM	1.71536	1.71517			N/A
11/13/2018	GBPCHF	9:30:00 AM	1.29984	1.30016			N/A
11/13/2018	GBPCHF	11:30:00 AM	1.30462	1.30445			N/A
11/13/2018	GBPCHF	1:30:00 PM	1.30469	1.30491			N/A
11/13/2018	GBPCHF	3:30:00 PM	1.3092	1.30948			N/A
11/13/2018	GBPCZK	9:30:00 AM	29.667	29.689			N/A
11/13/2018	GBPCZK	11:30:00 AM	29.801	29.81			N/A
11/13/2018	GBPCZK	1:30:00 PM	29.793	29.81			N/A

11/13/2018	GBPCZK	3:30:00 PM	29.848	29.857			N/A
11/13/2018	GBPDKK	9:30:00 AM	8.536	8.548			N/A
11/13/2018	GBPDKK	11:30:00 AM	8.567	8.574			N/A
11/13/2018	GBPDKK	1:30:00 PM	8.566	8.576			N/A
11/13/2018	GBPDKK	3:30:00 PM	8.588	8.595			N/A
11/13/2018	GBPHKD	9:30:00 AM	10.076	10.0805			N/A
11/13/2018	GBPHKD	11:30:00 AM	10.103	10.1046			N/A
11/13/2018	GBPHKD	1:30:00 PM	10.1118	10.116			N/A
11/13/2018	GBPHKD	3:30:00 PM	10.1499	10.152			N/A
11/13/2018	GBPHUF	9:30:00 AM	368.68	369.14			N/A
11/13/2018	GBPHUF	11:30:00 AM	370.09	370.46			N/A
11/13/2018	GBPHUF	1:30:00 PM	370.38	370.79			N/A
11/13/2018	GBPHUF	3:30:00 PM	371.23	371.62			N/A
11/13/2018	GBPJPY	9:30:00 AM	146.655	146.661			N/A
11/13/2018	GBPJPY	11:30:00 AM	147.281	147.252			N/A
11/13/2018	GBPJPY	1:30:00 PM	147.345	147.349			N/A
11/13/2018	GBPJPY	3:30:00 PM	147.746	147.725			N/A
11/13/2018	GBPMXN	9:30:00 AM	26.0762	26.0851			N/A
11/13/2018	GBPMXN	11:30:00 AM	26.3353	26.3346			N/A
11/13/2018	GBPMXN	1:30:00 PM	26.3654	26.3763			N/A
11/13/2018	GBPMXN	3:30:00 PM	26.5058	26.4827			N/A
11/13/2018	GBPNOK	9:30:00 AM	10.9503	10.9609			N/A
11/13/2018	GBPNOK	11:30:00 AM	10.9783	10.9835			N/A
11/13/2018	GBPNOK	1:30:00 PM	10.9772	10.9874			N/A
11/13/2018	GBPNOK	3:30:00 PM	10.9968	11.0003			N/A
11/13/2018	GBPNZD	9:30:00 AM	1.90706	1.90772			N/A
11/13/2018	GBPNZD	11:30:00 AM	1.91465	1.91433			N/A
11/13/2018	GBPNZD	1:30:00 PM	1.91457	1.91505			N/A
11/13/2018	GBPNZD	3:30:00 PM	1.92092	1.92052			N/A
11/13/2018	GBPPLN	9:30:00 AM	4.9189	4.9209			N/A
11/13/2018	GBPPLN	11:30:00 AM	4.9339	4.9333			N/A
11/13/2018	GBPPLN	1:30:00 PM	4.9396	4.9403			N/A
11/13/2018	GBPPLN	3:30:00 PM	4.9474	4.9471			N/A
11/13/2018	GBPSEK	9:30:00 AM	11.7451	11.7544			N/A
11/13/2018	GBPSEK	11:30:00 AM	11.7664	11.7693			N/A
11/13/2018	GBPSEK	1:30:00 PM	11.7467	11.7545			N/A
11/13/2018	GBPSEK	3:30:00 PM	11.7716	11.7759			N/A
11/13/2018	GBPSGD	9:30:00 AM	1.7789	1.7796			N/A
11/13/2018	GBPSGD	11:30:00 AM	1.7855	1.7853			N/A
11/13/2018	GBPSGD	1:30:00 PM	1.7857	1.786			N/A
11/13/2018	GBPSGD	3:30:00 PM	1.7916	1.7914			N/A
11/13/2018	GBPUSD	9:30:00 AM	1.28696	1.28689			N/A
11/13/2018	GBPUSD	11:30:00 AM	1.29075	1.29014			N/A
11/13/2018	GBPUSD	1:30:00 PM	1.29208	1.2918			N/A
11/13/2018	GBPUSD	3:30:00 PM	1.29694	1.29652			N/A
11/13/2018	GBPZAR	9:30:00 AM	18.4696	18.4909			N/A
11/13/2018	GBPZAR	11:30:00 AM	18.6797	18.6841			N/A
11/13/2018	GBPZAR	1:30:00 PM	18.6774	18.7			N/A
11/13/2018	GBPZAR	3:30:00 PM	18.7097	18.7157			N/A
11/13/2018	GOLD	9:30:00 AM	1202.93	1202.99			N/A

11/13/2018	GOLD	11:30:00 AM	1200.8	1200.76			N/A
11/13/2018	GOLD	1:30:00 PM	1198.16	1198.34			N/A
11/13/2018	GOLD	3:30:00 PM	1202.9	1202.95			N/A
11/13/2018	HKDJPY	9:30:00 AM					N/A
11/13/2018	HKDJPY	11:30:00 AM					N/A
11/13/2018	HKDJPY	1:30:00 PM					N/A
11/13/2018	HKDJPY	3:30:00 PM					N/A
11/13/2018	HUFJPY	9:30:00 AM	0.3977	0.3981			N/A
11/13/2018	HUFJPY	11:30:00 AM	0.3976	0.3979			N/A
11/13/2018	HUFJPY	1:30:00 PM	0.3977	0.398			N/A
11/13/2018	HUFJPY	3:30:00 PM	0.3978	0.3982			N/A
11/13/2018	MXNJPY	9:30:00 AM					N/A
11/13/2018	MXNJPY	11:30:00 AM					N/A
11/13/2018	MXNJPY	1:30:00 PM					N/A
11/13/2018	MXNJPY	3:30:00 PM	5.57	5.59			N/A
11/13/2018	NOKJPY	9:30:00 AM					N/A
11/13/2018	NOKJPY	11:30:00 AM	13.41	13.45			N/A
11/13/2018	NOKJPY	1:30:00 PM	13.41	13.44			N/A
11/13/2018	NOKJPY	3:30:00 PM	13.42	13.46			N/A
11/13/2018	NZDCAD	9:30:00 AM	0.89234	0.89297			N/A
11/13/2018	NZDCAD	11:30:00 AM	0.89179	0.89237			N/A
11/13/2018	NZDCAD	1:30:00 PM	0.89259	0.89323			N/A
11/13/2018	NZDCAD	3:30:00 PM	0.89277	0.89338			N/A
11/13/2018	NZDCHF	9:30:00 AM	0.68127	0.68188			N/A
11/13/2018	NZDCHF	11:30:00 AM	0.68106	0.68159			N/A
11/13/2018	NZDCHF	1:30:00 PM	0.68111	0.68176			N/A
11/13/2018	NZDCHF	3:30:00 PM	0.68145	0.68203			N/A
11/13/2018	NZDCZK	9:30:00 AM	15.553	15.565			N/A
11/13/2018	NZDCZK	11:30:00 AM	15.561	15.569			N/A
11/13/2018	NZDCZK	1:30:00 PM	15.556	15.568			N/A
11/13/2018	NZDCZK	3:30:00 PM	15.537	15.548			N/A
11/13/2018	NZDDKK	9:30:00 AM					N/A
11/13/2018	NZDDKK	11:30:00 AM	4.473	4.476			N/A
11/13/2018	NZDDKK	1:30:00 PM	4.473	4.477			N/A
11/13/2018	NZDDKK	3:30:00 PM	4.471	4.474			N/A
11/13/2018	NZDHKD	9:30:00 AM	5.2833	5.2842			N/A
11/13/2018	NZDHKD	11:30:00 AM	5.2757	5.2778			N/A
11/13/2018	NZDHKD	1:30:00 PM	5.2808	5.2826			N/A
11/13/2018	NZDHKD	3:30:00 PM	5.2846	5.2857			N/A
11/13/2018	NZDHUF	9:30:00 AM	193.26	193.53			N/A
11/13/2018	NZDHUF	11:30:00 AM	193.24	193.49			N/A
11/13/2018	NZDHUF	1:30:00 PM	193.38	193.66			N/A
11/13/2018	NZDHUF	3:30:00 PM	193.27	193.49			N/A
11/13/2018	NZDJPY	9:30:00 AM	76.867	76.915			N/A
11/13/2018	NZDJPY	11:30:00 AM	76.885	76.936			N/A
11/13/2018	NZDJPY	1:30:00 PM	76.922	76.982			N/A
11/13/2018	NZDJPY	3:30:00 PM	76.901	76.948			N/A
11/13/2018	NZDMXN	9:30:00 AM	13.6692	13.6737			N/A
11/13/2018	NZDMXN	11:30:00 AM	13.7544	13.7533			N/A
11/13/2018	NZDMXN	1:30:00 PM	13.7683	13.7738			N/A

11/13/2018	NZDMXN	3:30:00 PM	13.7951	13.7891			N/A
11/13/2018	NZDNOK	9:30:00 AM	5.7395	5.7434			N/A
11/13/2018	NZDNOK	11:30:00 AM	5.732	5.7337			N/A
11/13/2018	NZDNOK	1:30:00 PM	5.7318	5.735			N/A
11/13/2018	NZDNOK	3:30:00 PM	5.7231	5.7257			N/A
11/13/2018	NZDPLN	9:30:00 AM	2.5776	2.579			N/A
11/13/2018	NZDPLN	11:30:00 AM	2.5755	2.5763			N/A
11/13/2018	NZDPLN	1:30:00 PM	2.5788	2.5801			N/A
11/13/2018	NZDPLN	3:30:00 PM	2.5744	2.5757			N/A
11/13/2018	NZDSEK	9:30:00 AM	6.1543	6.1606			N/A
11/13/2018	NZDSEK	11:30:00 AM	6.1413	6.1457			N/A
11/13/2018	NZDSEK	1:30:00 PM	6.1317	6.1379			N/A
11/13/2018	NZDSEK	3:30:00 PM	6.1249	6.131			N/A
11/13/2018	NZDSGD	9:30:00 AM	0.9327	0.9333			N/A
11/13/2018	NZDSGD	11:30:00 AM	0.9323	0.933			N/A
11/13/2018	NZDSGD	1:30:00 PM	0.9324	0.9331			N/A
11/13/2018	NZDSGD	3:30:00 PM	0.9327	0.9333			N/A
11/13/2018	NZDUSD	9:30:00 AM	0.67467	0.67463			N/A
11/13/2018	NZDUSD	11:30:00 AM	0.67392	0.67379			N/A
11/13/2018	NZDUSD	1:30:00 PM	0.67467	0.67461			N/A
11/13/2018	NZDUSD	3:30:00 PM	0.67521	0.67495			N/A
11/13/2018	NZDZAR	9:30:00 AM	9.6754	9.6898			N/A
11/13/2018	NZDZAR	11:30:00 AM	9.7507	9.7529			N/A
11/13/2018	NZDZAR	1:30:00 PM	9.7466	9.7619			N/A
11/13/2018	NZDZAR	3:30:00 PM	9.7313	9.7431			N/A
11/13/2018	SEKJPY	9:30:00 AM	12.48	12.5			N/A
11/13/2018	SEKJPY	11:30:00 AM	12.52	12.54			N/A
11/13/2018	SEKJPY	1:30:00 PM					N/A
11/13/2018	SEKJPY	3:30:00 PM					N/A
11/13/2018	SGDJPY	9:30:00 AM	82.39	82.42			N/A
11/13/2018	SGDJPY	11:30:00 AM	82.46	82.48			N/A
11/13/2018	SGDJPY	1:30:00 PM	82.48	82.51			N/A
11/13/2018	SGDJPY	3:30:00 PM	82.44	82.46			N/A
11/13/2018	SILVER	9:30:00 AM	13.88	14.24			N/A
11/13/2018	SILVER	11:30:00 AM	13.85	14.21			N/A
11/13/2018	SILVER	1:30:00 PM	13.83	14.19			N/A
11/13/2018	SILVER	3:30:00 PM	13.89	14.26			N/A
11/13/2018	USDCAD	9:30:00 AM	1.32301	1.323			N/A
11/13/2018	USDCAD	11:30:00 AM	1.32371	1.32369			N/A
11/13/2018	USDCAD	1:30:00 PM	1.32337	1.32343			N/A
11/13/2018	USDCAD	3:30:00 PM	1.32288	1.32251			N/A
11/13/2018	USDCHF	9:30:00 AM	1.01012	1.01023			N/A
11/13/2018	USDCHF	11:30:00 AM	1.01087	1.0109			N/A
11/13/2018	USDCHF	1:30:00 PM	1.00997	1.00998			N/A
11/13/2018	USDCHF	3:30:00 PM	1.00942	1.01			N/A
11/13/2018	USDCZK	9:30:00 AM	23.052	23.072			N/A
11/13/2018	USDCZK	11:30:00 AM	23.09	23.107			N/A
11/13/2018	USDCZK	1:30:00 PM	23.059	23.079			N/A
11/13/2018	USDCZK	3:30:00 PM	23.013	23.033			N/A
11/13/2018	USDDKK	9:30:00 AM	6.6369	6.6414			N/A

11/13/2018	USDDKK	11:30:00 AM	6.6412	6.6445			N/A
11/13/2018	USDDKK	1:30:00 PM	6.6341	6.6375			N/A
11/13/2018	USDDKK	3:30:00 PM	6.6249	6.629			N/A
11/13/2018	USDHKD	9:30:00 AM	7.8327	7.8326			N/A
11/13/2018	USDHKD	11:30:00 AM	7.8309	7.8312			N/A
11/13/2018	USDHKD	1:30:00 PM	7.8291	7.8296			N/A
11/13/2018	USDHKD	3:30:00 PM	7.8292	7.8296			N/A
11/13/2018	USDHUF	9:30:00 AM	286.54	286.96			N/A
11/13/2018	USDHUF	11:30:00 AM	286.82	287.21			N/A
11/13/2018	USDHUF	1:30:00 PM	286.76	287.16			N/A
11/13/2018	USDHUF	3:30:00 PM	286.36	286.73			N/A
11/13/2018	USDJPY	9:30:00 AM	113.969	113.955			N/A
11/13/2018	USDJPY	11:30:00 AM	114.131	114.126			N/A
11/13/2018	USDJPY	1:30:00 PM	114.051	114.053			N/A
11/13/2018	USDJPY	3:30:00 PM	113.944	113.931			N/A
11/13/2018	USDMXN	9:30:00 AM	20.27	20.274			N/A
11/13/2018	USDMXN	11:30:00 AM	20.415	20.413			N/A
11/13/2018	USDMXN	1:30:00 PM	20.414	20.42			N/A
11/13/2018	USDMXN	3:30:00 PM	20.446	20.427			N/A
11/13/2018	USDNOK	9:30:00 AM	8.5102	8.5181			N/A
11/13/2018	USDNOK	11:30:00 AM	8.507	8.5127			N/A
11/13/2018	USDNOK	1:30:00 PM	8.4985	8.5048			N/A
11/13/2018	USDNOK	3:30:00 PM	8.4795	8.485			N/A
11/13/2018	USDPLN	9:30:00 AM	3.8224	3.8236			N/A
11/13/2018	USDPLN	11:30:00 AM	3.8227	3.823			N/A
11/13/2018	USDPLN	1:30:00 PM	3.8238	3.8234			N/A
11/13/2018	USDPLN	3:30:00 PM	3.8145	3.8154			N/A
11/13/2018	USDRUR	9:30:00 AM					N/A
11/13/2018	USDRUR	11:30:00 AM	67.485	67.864			N/A
11/13/2018	USDRUR	1:30:00 PM	67.553	67.941			N/A
11/13/2018	USDRUR	3:30:00 PM	67.449	67.78			N/A
11/13/2018	USDSEK	9:30:00 AM	9.1265	9.1303			N/A
11/13/2018	USDSEK	11:30:00 AM	9.1161	9.1178			N/A
11/13/2018	USDSEK	1:30:00 PM	9.0928	9.095			N/A
11/13/2018	USDSEK	3:30:00 PM	9.076	9.0794			N/A
11/13/2018	USDSGD	9:30:00 AM	1.3823	1.3828			N/A
11/13/2018	USDSGD	11:30:00 AM	1.3834	1.3837			N/A
11/13/2018	USDSGD	1:30:00 PM	1.382	1.3824			N/A
11/13/2018	USDSGD	3:30:00 PM	1.3814	1.3817			N/A
11/13/2018	USDZAR	9:30:00 AM	14.3539	14.367			N/A
11/13/2018	USDZAR	11:30:00 AM	14.4746	14.477			N/A
11/13/2018	USDZAR	1:30:00 PM	14.4588	14.472			N/A
11/13/2018	USDZAR	3:30:00 PM	14.428	14.4327			N/A
11/13/2018	XAUUSD	9:30:00 AM	1202.93	1203			N/A
11/13/2018	XAUUSD	11:30:00 AM	1200.8	1200.76			N/A
11/13/2018	XAUUSD	1:30:00 PM	1198.16	1198.32			N/A
11/13/2018	XAUUSD	3:30:00 PM	1202.9	1202.95			N/A
11/13/2018	ZARJPY	9:30:00 AM					N/A
11/13/2018	ZARJPY	11:30:00 AM	7.84	7.88			N/A
11/13/2018	ZARJPY	1:30:00 PM					N/A

11/13/2018	ZARJPY	3:30:00 PM	7.84	7.88			N/A
11/14/2018	#AA	9:30:00 AM					N/A
11/14/2018	#AA	11:30:00 AM					N/A
11/14/2018	#AA	1:30:00 PM					N/A
11/14/2018	#AA	3:30:00 PM					N/A
11/14/2018	#AABA	9:30:00 AM					N/A
11/14/2018	#AABA	11:30:00 AM					N/A
11/14/2018	#AABA	1:30:00 PM					N/A
11/14/2018	#AABA	3:30:00 PM					N/A
11/14/2018	#AAL	9:30:00 AM					N/A
11/14/2018	#AAL	11:30:00 AM					N/A
11/14/2018	#AAL	1:30:00 PM					N/A
11/14/2018	#AAL	3:30:00 PM					N/A
11/14/2018	#AAPL	9:30:00 AM					N/A
11/14/2018	#AAPL	11:30:00 AM					N/A
11/14/2018	#AAPL	1:30:00 PM					N/A
11/14/2018	#AAPL	3:30:00 PM					N/A
11/14/2018	#ADBE	9:30:00 AM					N/A
11/14/2018	#ADBE	11:30:00 AM					N/A
11/14/2018	#ADBE	1:30:00 PM					N/A
11/14/2018	#ADBE	3:30:00 PM					N/A
11/14/2018	#AIG	9:30:00 AM					N/A
11/14/2018	#AIG	11:30:00 AM					N/A
11/14/2018	#AIG	1:30:00 PM					N/A
11/14/2018	#AIG	3:30:00 PM					N/A
11/14/2018	#AMD	9:30:00 AM					N/A
11/14/2018	#AMD	11:30:00 AM					N/A
11/14/2018	#AMD	1:30:00 PM					N/A
11/14/2018	#AMD	3:30:00 PM					N/A
11/14/2018	#AMZN	9:30:00 AM					N/A
11/14/2018	#AMZN	11:30:00 AM					N/A
11/14/2018	#AMZN	1:30:00 PM					N/A
11/14/2018	#AMZN	3:30:00 PM					N/A
11/14/2018	#AXP	9:30:00 AM					N/A
11/14/2018	#AXP	11:30:00 AM					N/A
11/14/2018	#AXP	1:30:00 PM					N/A
11/14/2018	#AXP	3:30:00 PM					N/A
11/14/2018	#BA	9:30:00 AM					N/A
11/14/2018	#BA	11:30:00 AM					N/A
11/14/2018	#BA	1:30:00 PM					N/A
11/14/2018	#BA	3:30:00 PM					N/A
11/14/2018	#BABA	9:30:00 AM					N/A
11/14/2018	#BABA	11:30:00 AM					N/A
11/14/2018	#BABA	1:30:00 PM					N/A
11/14/2018	#BABA	3:30:00 PM					N/A
11/14/2018	#BAC	9:30:00 AM					N/A
11/14/2018	#BAC	11:30:00 AM					N/A
11/14/2018	#BAC	1:30:00 PM					N/A
11/14/2018	#BAC	3:30:00 PM					N/A
11/14/2018	#BARC	9:30:00 AM					N/A

11/14/2018	#BARC	11:30:00 AM					N/A
11/14/2018	#BARC	1:30:00 PM					N/A
11/14/2018	#BARC	3:30:00 PM					N/A
11/14/2018	#BHP	9:30:00 AM					N/A
11/14/2018	#BHP	11:30:00 AM					N/A
11/14/2018	#BHP	1:30:00 PM					N/A
11/14/2018	#BHP	3:30:00 PM					N/A
11/14/2018	#BIDU	9:30:00 AM					N/A
11/14/2018	#BIDU	11:30:00 AM					N/A
11/14/2018	#BIDU	1:30:00 PM					N/A
11/14/2018	#BIDU	3:30:00 PM					N/A
11/14/2018	#BK	9:30:00 AM					N/A
11/14/2018	#BK	11:30:00 AM					N/A
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11/14/2018	AUDCAD	11:30:00 AM	0.95198	0.95259			N/A
11/14/2018	AUDCAD	1:30:00 PM	0.95193	0.95259			N/A
11/14/2018	AUDCAD	3:30:00 PM	0.95466	0.95467			N/A
11/14/2018	AUDCHF	9:30:00 AM	0.72632	0.72693			N/A
11/14/2018	AUDCHF	11:30:00 AM	0.72553	0.72617			N/A
11/14/2018	AUDCHF	1:30:00 PM	0.72611	0.72667			N/A
11/14/2018	AUDCHF	3:30:00 PM	0.72832	0.72851			N/A
11/14/2018	AUDCZK	9:30:00 AM	16.574	16.589			N/A
11/14/2018	AUDCZK	11:30:00 AM	16.551	16.567			N/A
11/14/2018	AUDCZK	1:30:00 PM	16.581	16.599			N/A
11/14/2018	AUDCZK	3:30:00 PM	16.605	16.608			N/A
11/14/2018	AUDDKK	9:30:00 AM	4.7656	4.7697			N/A
11/14/2018	AUDDKK	11:30:00 AM	4.7565	4.7608			N/A
11/14/2018	AUDDKK	1:30:00 PM	4.7623	4.7666			N/A
11/14/2018	AUDDKK	3:30:00 PM	4.7669	4.7685			N/A
11/14/2018	AUDHKD	9:30:00 AM	5.65	5.6531			N/A
11/14/2018	AUDHKD	11:30:00 AM	5.6316	5.6355			N/A
11/14/2018	AUDHKD	1:30:00 PM	5.6313	5.6353			N/A
11/14/2018	AUDHKD	3:30:00 PM	5.6578	5.653			N/A
11/14/2018	AUDHUF	9:30:00 AM	206.29	206.43			N/A
11/14/2018	AUDHUF	11:30:00 AM	205.69	205.75			N/A
11/14/2018	AUDHUF	1:30:00 PM	205.97	206.02			N/A
11/14/2018	AUDHUF	3:30:00 PM	206.03	206.13			N/A
11/14/2018	AUDJPY	9:30:00 AM	82.168	82.222			N/A
11/14/2018	AUDJPY	11:30:00 AM	81.843	81.912			N/A
11/14/2018	AUDJPY	1:30:00 PM	81.901	81.968			N/A
11/14/2018	AUDJPY	3:30:00 PM	82.266	82.254			N/A
11/14/2018	AUDMXN	9:30:00 AM	14.7957	14.8027			N/A
11/14/2018	AUDMXN	11:30:00 AM	14.7467	14.7486			N/A
11/14/2018	AUDMXN	1:30:00 PM	14.7275	14.7366			N/A
11/14/2018	AUDMXN	3:30:00 PM	14.7446	14.7378			N/A
11/14/2018	AUDNOK	9:30:00 AM	6.1235	6.1263			N/A

11/14/2018	AUDNOK	11:30:00 AM	6.1235	6.1292			N/A
11/14/2018	AUDNOK	1:30:00 PM	6.1304	6.1363			N/A
11/14/2018	AUDNOK	3:30:00 PM	6.1326	6.134			N/A
11/14/2018	AUDNZD	9:30:00 AM	1.06322	1.06396			N/A
11/14/2018	AUDNZD	11:30:00 AM	1.06165	1.0625			N/A
11/14/2018	AUDNZD	1:30:00 PM	1.06121	1.06211			N/A
11/14/2018	AUDNZD	3:30:00 PM	1.06341	1.06352			N/A
11/14/2018	AUDPLN	9:30:00 AM	2.7437	2.7458			N/A
11/14/2018	AUDPLN	11:30:00 AM	2.7358	2.7385			N/A
11/14/2018	AUDPLN	1:30:00 PM	2.7421	2.7452			N/A
11/14/2018	AUDPLN	3:30:00 PM	2.7405	2.7423			N/A
11/14/2018	AUDSEK	9:30:00 AM	6.5295	6.532			N/A
11/14/2018	AUDSEK	11:30:00 AM	6.5555	6.5575			N/A
11/14/2018	AUDSEK	1:30:00 PM	6.5587	6.5598			N/A
11/14/2018	AUDSEK	3:30:00 PM	6.5617	6.5624			N/A
11/14/2018	AUDSGD	9:30:00 AM	0.996	0.9962			N/A
11/14/2018	AUDSGD	11:30:00 AM	0.9938	0.9942			N/A
11/14/2018	AUDSGD	1:30:00 PM	0.9937	0.994			N/A
11/14/2018	AUDSGD	3:30:00 PM	0.9966	0.9964			N/A
11/14/2018	AUDUSD	9:30:00 AM	0.72171	0.72161			N/A
11/14/2018	AUDUSD	11:30:00 AM	0.71923	0.71935			N/A
11/14/2018	AUDUSD	1:30:00 PM	0.71928	0.71937			N/A
11/14/2018	AUDUSD	3:30:00 PM	0.72271	0.72195			N/A
11/14/2018	AUDZAR	9:30:00 AM	10.4048	10.4117			N/A
11/14/2018	AUDZAR	11:30:00 AM	10.3466	10.3586			N/A
11/14/2018	AUDZAR	1:30:00 PM	10.3532	10.367			N/A
11/14/2018	AUDZAR	3:30:00 PM	10.3525	10.3503			N/A
11/14/2018	CADCHF	9:30:00 AM	0.76026	0.76091			N/A
11/14/2018	CADCHF	11:30:00 AM	0.76195	0.76248			N/A
11/14/2018	CADCHF	1:30:00 PM	0.76252	0.76305			N/A
11/14/2018	CADCHF	3:30:00 PM	0.76272	0.76327			N/A
11/14/2018	CADCZK	9:30:00 AM	17.355	17.367			N/A
11/14/2018	CADCZK	11:30:00 AM	17.387	17.4			N/A
11/14/2018	CADCZK	1:30:00 PM	17.419	17.436			N/A
11/14/2018	CADCZK	3:30:00 PM	17.396	17.406			N/A
11/14/2018	CADDKK	9:30:00 AM	4.989	4.993			N/A
11/14/2018	CADDKK	11:30:00 AM	4.997	4.999			N/A
11/14/2018	CADDKK	1:30:00 PM					N/A
11/14/2018	CADDKK	3:30:00 PM	4.994	4.997			N/A
11/14/2018	CADHKD	9:30:00 AM	5.9149	5.9188			N/A
11/14/2018	CADHKD	11:30:00 AM	5.9152	5.918			N/A
11/14/2018	CADHKD	1:30:00 PM	5.9152	5.9188			N/A
11/14/2018	CADHKD	3:30:00 PM	5.9261	5.9265			N/A
11/14/2018	CADHUF	9:30:00 AM	216.03	216.07			N/A
11/14/2018	CADHUF	11:30:00 AM	216.12	216.06			N/A
11/14/2018	CADHUF	1:30:00 PM	216.38	216.36			N/A
11/14/2018	CADHUF	3:30:00 PM	215.9	215.99			N/A
11/14/2018	CADJPY	9:30:00 AM	86	86.068			N/A
11/14/2018	CADJPY	11:30:00 AM	85.952	86.006			N/A
11/14/2018	CADJPY	1:30:00 PM	86.008	86.071			N/A

11/14/2018	CADJPY	3:30:00 PM	86.157	86.184			N/A
11/14/2018	CADMXN	9:30:00 AM	15.4934	15.5007			N/A
11/14/2018	CADMXN	11:30:00 AM	15.4898	15.494			N/A
11/14/2018	CADMXN	1:30:00 PM	15.4719	15.4808			N/A
11/14/2018	CADMXN	3:30:00 PM	15.446	15.4496			N/A
11/14/2018	CADNOK	9:30:00 AM	6.4118	6.4135			N/A
11/14/2018	CADNOK	11:30:00 AM	6.4327	6.4364			N/A
11/14/2018	CADNOK	1:30:00 PM	6.4407	6.4456			N/A
11/14/2018	CADNOK	3:30:00 PM	6.4254	6.4279			N/A
11/14/2018	CADPLN	9:30:00 AM	2.8725	2.8735			N/A
11/14/2018	CADPLN	11:30:00 AM	2.8733	2.8742			N/A
11/14/2018	CADPLN	1:30:00 PM	2.8799	2.8817			N/A
11/14/2018	CADPLN	3:30:00 PM	2.8716	2.8723			N/A
11/14/2018	CADSEK	9:30:00 AM	6.8349	6.8386			N/A
11/14/2018	CADSEK	11:30:00 AM	6.8846	6.8862			N/A
11/14/2018	CADSEK	1:30:00 PM	6.8876	6.8884			N/A
11/14/2018	CADSEK	3:30:00 PM	6.8747	6.8743			N/A
11/14/2018	CADSGD	9:30:00 AM	1.0429	1.0432			N/A
11/14/2018	CADSGD	11:30:00 AM	1.0434	1.0438			N/A
11/14/2018	CADSGD	1:30:00 PM	1.0436	1.0439			N/A
11/14/2018	CADSGD	3:30:00 PM	1.0439	1.0442			N/A
11/14/2018	CADZAR	9:30:00 AM	10.891	10.8979			N/A
11/14/2018	CADZAR	11:30:00 AM	10.8654	10.88			N/A
11/14/2018	CADZAR	1:30:00 PM	10.8688	10.8867			N/A
11/14/2018	CADZAR	3:30:00 PM	10.8472	10.843			N/A
11/14/2018	CHFCZK	9:30:00 AM	22.822	22.833			N/A
11/14/2018	CHFCZK	11:30:00 AM	22.812	22.828			N/A
11/14/2018	CHFCZK	1:30:00 PM	22.841	22.852			N/A
11/14/2018	CHFCZK	3:30:00 PM	22.801	22.813			N/A
11/14/2018	CHFDKK	9:30:00 AM	6.56	6.564			N/A
11/14/2018	CHFDKK	11:30:00 AM					N/A
11/14/2018	CHFDKK	1:30:00 PM	6.558	6.561			N/A
11/14/2018	CHFDKK	3:30:00 PM	6.545	6.547			N/A
11/14/2018	CHFHKD	9:30:00 AM	7.7789	7.7816			N/A
11/14/2018	CHFHKD	11:30:00 AM	7.7625	7.7651			N/A
11/14/2018	CHFHKD	1:30:00 PM	7.7568	7.7596			N/A
11/14/2018	CHFHKD	3:30:00 PM	7.7688	7.7657			N/A
11/14/2018	CHFHUF	9:30:00 AM	283.97	284.19			N/A
11/14/2018	CHFHUF	11:30:00 AM	283.46	283.61			N/A
11/14/2018	CHFHUF	1:30:00 PM	283.63	283.7			N/A
11/14/2018	CHFHUF	3:30:00 PM	282.87	283.18			N/A
11/14/2018	CHFJPY	9:30:00 AM	113.091	113.144			N/A
11/14/2018	CHFJPY	11:30:00 AM	112.772	112.832			N/A
11/14/2018	CHFJPY	1:30:00 PM	112.777	112.82			N/A
11/14/2018	CHFJPY	3:30:00 PM	112.927	112.93			N/A
11/14/2018	CHFMXN	9:30:00 AM	20.3683	20.3786			N/A
11/14/2018	CHFMXN	11:30:00 AM	20.3231	20.3264			N/A
11/14/2018	CHFMXN	1:30:00 PM	20.2821	20.2919			N/A
11/14/2018	CHFMXN	3:30:00 PM	20.2422	20.2461			N/A
11/14/2018	CHFNOK	9:30:00 AM	8.4306	8.4337			N/A

11/14/2018	CHFNOK	11:30:00 AM	8.4387	8.4461			N/A
11/14/2018	CHFNOK	1:30:00 PM	8.4439	8.4496			N/A
11/14/2018	CHFNOK	3:30:00 PM	8.4205	8.4263			N/A
11/14/2018	CHFPLN	9:30:00 AM	3.7767	3.7782			N/A
11/14/2018	CHFPLN	11:30:00 AM	3.7697	3.7724			N/A
11/14/2018	CHFPLN	1:30:00 PM	3.7759	3.7783			N/A
11/14/2018	CHFPLN	3:30:00 PM	3.7626	3.7641			N/A
11/14/2018	CHFSEK	9:30:00 AM	8.9893	8.9912			N/A
11/14/2018	CHFSEK	11:30:00 AM	9.0335	9.0362			N/A
11/14/2018	CHFSEK	1:30:00 PM	9.0325	9.0304			N/A
11/14/2018	CHFSEK	3:30:00 PM	9.0118	9.0115			N/A
11/14/2018	CHFSGD	9:30:00 AM	1.3709	1.3712			N/A
11/14/2018	CHFSGD	11:30:00 AM	1.3695	1.3698			N/A
11/14/2018	CHFSGD	1:30:00 PM	1.3681	1.3685			N/A
11/14/2018	CHFSGD	3:30:00 PM	1.368	1.3682			N/A
11/14/2018	CHFZAR	9:30:00 AM	14.324	14.3257			N/A
11/14/2018	CHFZAR	11:30:00 AM	14.2588	14.2697			N/A
11/14/2018	CHFZAR	1:30:00 PM	14.2558	14.2671			N/A
11/14/2018	CHFZAR	3:30:00 PM	14.219	14.2075			N/A
11/14/2018	CZKJPY	9:30:00 AM	4.955	4.959			N/A
11/14/2018	CZKJPY	11:30:00 AM					N/A
11/14/2018	CZKJPY	1:30:00 PM					N/A
11/14/2018	CZKJPY	3:30:00 PM	4.952	4.954			N/A
11/14/2018	DKKJPY	9:30:00 AM					N/A
11/14/2018	DKKJPY	11:30:00 AM	17.2	17.22			N/A
11/14/2018	DKKJPY	1:30:00 PM					N/A
11/14/2018	DKKJPY	3:30:00 PM	17.26	17.27			N/A
11/14/2018	EURAUD	9:30:00 AM	1.56437	1.56459			N/A
11/14/2018	EURAUD	11:30:00 AM	1.56732	1.56757			N/A
11/14/2018	EURAUD	1:30:00 PM	1.56538	1.56575			N/A
11/14/2018	EURAUD	3:30:00 PM	1.56495	1.56411			N/A
11/14/2018	EURCAD	9:30:00 AM	1.49501	1.4955			N/A
11/14/2018	EURCAD	11:30:00 AM	1.49303	1.49347			N/A
11/14/2018	EURCAD	1:30:00 PM	1.49106	1.49179			N/A
11/14/2018	EURCAD	3:30:00 PM	1.49408	1.49428			N/A
11/14/2018	EURCHF	9:30:00 AM	1.13731	1.13713			N/A
11/14/2018	EURCHF	11:30:00 AM	1.13812	1.13818			N/A
11/14/2018	EURCHF	1:30:00 PM	1.13775	1.13755			N/A
11/14/2018	EURCHF	3:30:00 PM	1.13984	1.14027			N/A
11/14/2018	EURCZK	9:30:00 AM	25.937	25.975			N/A
11/14/2018	EURCZK	11:30:00 AM	25.951	25.989			N/A
11/14/2018	EURCZK	1:30:00 PM	25.971	26.01			N/A
11/14/2018	EURCZK	3:30:00 PM	25.982	26.014			N/A
11/14/2018	EURDKK	9:30:00 AM	7.461	7.4622			N/A
11/14/2018	EURDKK	11:30:00 AM	7.461	7.4616			N/A
11/14/2018	EURDKK	1:30:00 PM	7.4608	7.4617			N/A
11/14/2018	EURDKK	3:30:00 PM	7.4614	7.4624			N/A
11/14/2018	EURGBP	9:30:00 AM	0.86876	0.86852			N/A
11/14/2018	EURGBP	11:30:00 AM	0.87078	0.87007			N/A
11/14/2018	EURGBP	1:30:00 PM	0.87329	0.87326			N/A

11/14/2018	EURGBP	3:30:00 PM	0.87124	0.8708			N/A
11/14/2018	EURHKD	9:30:00 AM	8.8462	8.8478			N/A
11/14/2018	EURHKD	11:30:00 AM	8.833	8.8363			N/A
11/14/2018	EURHKD	1:30:00 PM	8.8224	8.8268			N/A
11/14/2018	EURHKD	3:30:00 PM	8.8567	8.8519			N/A
11/14/2018	EURHUF	9:30:00 AM	322.79	323.46			N/A
11/14/2018	EURHUF	11:30:00 AM	322.52	323.24			N/A
11/14/2018	EURHUF	1:30:00 PM	322.53	323.22			N/A
11/14/2018	EURHUF	3:30:00 PM	322.36	322.99			N/A
11/14/2018	EURJPY	9:30:00 AM	128.66	128.627			N/A
11/14/2018	EURJPY	11:30:00 AM	128.39	128.383			N/A
11/14/2018	EURJPY	1:30:00 PM	128.323	128.315			N/A
11/14/2018	EURJPY	3:30:00 PM	128.777	128.696			N/A
11/14/2018	EURMXN	9:30:00 AM	23.1656	23.1813			N/A
11/14/2018	EURMXN	11:30:00 AM	23.1325	23.1345			N/A
11/14/2018	EURMXN	1:30:00 PM	23.0726	23.0892			N/A
11/14/2018	EURMXN	3:30:00 PM	23.0798	23.0788			N/A
11/14/2018	EURNOK	9:30:00 AM	9.5849	9.5938			N/A
11/14/2018	EURNOK	11:30:00 AM	9.6031	9.6142			N/A
11/14/2018	EURNOK	1:30:00 PM	9.6029	9.6154			N/A
11/14/2018	EURNOK	3:30:00 PM	9.5969	9.6089			N/A
11/14/2018	EURNZD	9:30:00 AM	1.66443	1.6647			N/A
11/14/2018	EURNZD	11:30:00 AM	1.66515	1.66571			N/A
11/14/2018	EURNZD	1:30:00 PM	1.66226	1.66309			N/A
11/14/2018	EURNZD	3:30:00 PM	1.66453	1.66425			N/A
11/14/2018	EURPLN	9:30:00 AM	4.2948	4.2968			N/A
11/14/2018	EURPLN	11:30:00 AM	4.2912	4.2932			N/A
11/14/2018	EURPLN	1:30:00 PM	4.2953	4.2985			N/A
11/14/2018	EURPLN	3:30:00 PM	4.2895	4.2903			N/A
11/14/2018	EURRUR	9:30:00 AM					N/A
11/14/2018	EURRUR	11:30:00 AM	76.163	76.575			N/A
11/14/2018	EURRUR	1:30:00 PM	76.105	76.532			N/A
11/14/2018	EURRUR	3:30:00 PM	75.845	76.124			N/A
11/14/2018	EURSEK	9:30:00 AM	10.2223	10.2239			N/A
11/14/2018	EURSEK	11:30:00 AM	10.2802	10.2843			N/A
11/14/2018	EURSEK	1:30:00 PM	10.2728	10.2739			N/A
11/14/2018	EURSEK	3:30:00 PM	10.2705	10.2719			N/A
11/14/2018	EURSGD	9:30:00 AM	1.559	1.5596			N/A
11/14/2018	EURSGD	11:30:00 AM	1.5585	1.5591			N/A
11/14/2018	EURSGD	1:30:00 PM	1.5563	1.5571			N/A
11/14/2018	EURSGD	3:30:00 PM	1.5596	1.5597			N/A
11/14/2018	EURUSD	9:30:00 AM	1.12953	1.12914	100	100	N/A
11/14/2018	EURUSD	11:30:00 AM	1.12778	1.12765			N/A
11/14/2018	EURUSD	1:30:00 PM	1.12645	1.12642			N/A
11/14/2018	EURUSD	3:30:00 PM	1.13088	1.12973			N/A
11/14/2018	EURZAR	9:30:00 AM	16.2893	16.2979			N/A
11/14/2018	EURZAR	11:30:00 AM	16.2302	16.243			N/A
11/14/2018	EURZAR	1:30:00 PM	16.2156	16.234			N/A
11/14/2018	EURZAR	3:30:00 PM	16.2136	16.2004			N/A
11/14/2018	GBPAUD	9:30:00 AM	1.80172	1.80171			N/A

11/14/2018	GBPAUD	11:30:00 AM	1.8019	1.801			N/A
11/14/2018	GBPAUD	1:30:00 PM	1.7932	1.79371			N/A
11/14/2018	GBPAUD	3:30:00 PM	1.79756	1.79629			N/A
11/14/2018	GBPCAD	9:30:00 AM	1.72143	1.7213			N/A
11/14/2018	GBPCAD	11:30:00 AM	1.71594	1.71517			N/A
11/14/2018	GBPCAD	1:30:00 PM	1.7075	1.70808			N/A
11/14/2018	GBPCAD	3:30:00 PM	1.71557	1.71511			N/A
11/14/2018	GBPCHF	9:30:00 AM	1.30932	1.30897			N/A
11/14/2018	GBPCHF	11:30:00 AM	1.30794	1.30723			N/A
11/14/2018	GBPCHF	1:30:00 PM	1.30262	1.3027			N/A
11/14/2018	GBPCHF	3:30:00 PM	1.30883	1.30882			N/A
11/14/2018	GBPCZK	9:30:00 AM	29.873	29.885			N/A
11/14/2018	GBPCZK	11:30:00 AM	29.833	29.828			N/A
11/14/2018	GBPCZK	1:30:00 PM	29.745	29.766			N/A
11/14/2018	GBPCZK	3:30:00 PM	29.836	29.846			N/A
11/14/2018	GBPDKK	9:30:00 AM	8.587	8.596			N/A
11/14/2018	GBPDKK	11:30:00 AM	8.572	8.576			N/A
11/14/2018	GBPDKK	1:30:00 PM	8.541	8.552			N/A
11/14/2018	GBPDKK	3:30:00 PM	8.566	8.572			N/A
11/14/2018	GBPHKD	9:30:00 AM	10.1834	10.1827			N/A
11/14/2018	GBPHKD	11:30:00 AM	10.1503	10.146			N/A
11/14/2018	GBPHKD	1:30:00 PM	10.101	10.1059			N/A
11/14/2018	GBPHKD	3:30:00 PM	10.1635	10.158			N/A
11/14/2018	GBPHUF	9:30:00 AM	371.7	372.02			N/A
11/14/2018	GBPHUF	11:30:00 AM	370.69	370.55			N/A
11/14/2018	GBPHUF	1:30:00 PM	369.38	369.53			N/A
11/14/2018	GBPHUF	3:30:00 PM	370.15	370.39			N/A
11/14/2018	GBPJPY	9:30:00 AM	148.12	148.064			N/A
11/14/2018	GBPJPY	11:30:00 AM	147.555	147.447		100	N/A
11/14/2018	GBPJPY	1:30:00 PM	146.929	146.961			N/A
11/14/2018	GBPJPY	3:30:00 PM	147.806	147.728			N/A
11/14/2018	GBPMXN	9:30:00 AM	26.6647	26.6698			N/A
11/14/2018	GBPMXN	11:30:00 AM	26.5786	26.5687			N/A
11/14/2018	GBPMXN	1:30:00 PM	26.4183	26.4283			N/A
11/14/2018	GBPMXN	3:30:00 PM	26.487	26.4811			N/A
11/14/2018	GBPNOK	9:30:00 AM	11.0347	11.0435			N/A
11/14/2018	GBPNOK	11:30:00 AM	11.0382	11.0397			N/A
11/14/2018	GBPNOK	1:30:00 PM	10.9988	11.0088			N/A
11/14/2018	GBPNOK	3:30:00 PM	11.0225	11.0275			N/A
11/14/2018	GBPNZD	9:30:00 AM	1.91644	1.91614			N/A
11/14/2018	GBPNZD	11:30:00 AM	1.91381	1.91292			N/A
11/14/2018	GBPNZD	1:30:00 PM	1.90377	1.90427			N/A
11/14/2018	GBPNZD	3:30:00 PM	1.91148	1.91063			N/A
11/14/2018	GBPPLN	9:30:00 AM	4.9459	4.946			N/A
11/14/2018	GBPPLN	11:30:00 AM	4.9327	4.93			N/A
11/14/2018	GBPPLN	1:30:00 PM	4.9199	4.9213			N/A
11/14/2018	GBPPLN	3:30:00 PM	4.9269	4.9238			N/A
11/14/2018	GBPSEK	9:30:00 AM	11.7675	11.7708			N/A
11/14/2018	GBPSEK	11:30:00 AM	11.8139	11.8112			N/A
11/14/2018	GBPSEK	1:30:00 PM	11.7609	11.7664			N/A

11/14/2018	GBPSEK	3:30:00 PM	11.7929	11.7914			N/A
11/14/2018	GBPSGD	9:30:00 AM	1.795	1.795			N/A
11/14/2018	GBPSGD	11:30:00 AM	1.7912	1.7904			N/A
11/14/2018	GBPSGD	1:30:00 PM	1.7823	1.7829			N/A
11/14/2018	GBPSGD	3:30:00 PM	1.7909	1.7905			N/A
11/14/2018	GBPUSD	9:30:00 AM	1.30065	1.29976			N/A
11/14/2018	GBPUSD	11:30:00 AM	1.29637	1.29511			N/A
11/14/2018	GBPUSD	1:30:00 PM	1.29009	1.28998			N/A
11/14/2018	GBPUSD	3:30:00 PM	1.29816	1.29696			N/A
11/14/2018	GBPZAR	9:30:00 AM	18.7502	18.7673			N/A
11/14/2018	GBPZAR	11:30:00 AM	18.6497	18.6604			N/A
11/14/2018	GBPZAR	1:30:00 PM	18.5679	18.5922			N/A
11/14/2018	GBPZAR	3:30:00 PM	18.6056	18.597			N/A
11/14/2018	GOLD	9:30:00 AM	1202.53	1202.19			N/A
11/14/2018	GOLD	11:30:00 AM	1200.13	1200.26			N/A
11/14/2018	GOLD	1:30:00 PM	1199.9	1199.99			N/A
11/14/2018	GOLD	3:30:00 PM	1202.11	1201.5			N/A
11/14/2018	HKDJPY	9:30:00 AM					N/A
11/14/2018	HKDJPY	11:30:00 AM					N/A
11/14/2018	HKDJPY	1:30:00 PM					N/A
11/14/2018	HKDJPY	3:30:00 PM					N/A
11/14/2018	HUFJPY	9:30:00 AM	0.3981	0.3984			N/A
11/14/2018	HUFJPY	11:30:00 AM	0.3981	0.3984			N/A
11/14/2018	HUFJPY	1:30:00 PM	0.3977	0.398			N/A
11/14/2018	HUFJPY	3:30:00 PM	0.3989	0.3992			N/A
11/14/2018	MXNJPY	9:30:00 AM					N/A
11/14/2018	MXNJPY	11:30:00 AM					N/A
11/14/2018	MXNJPY	1:30:00 PM					N/A
11/14/2018	MXNJPY	3:30:00 PM					N/A
11/14/2018	NOKJPY	9:30:00 AM	13.41	13.45			N/A
11/14/2018	NOKJPY	11:30:00 AM					N/A
11/14/2018	NOKJPY	1:30:00 PM	13.35	13.39			N/A
11/14/2018	NOKJPY	3:30:00 PM	13.4	13.44			N/A
11/14/2018	NZDCAD	9:30:00 AM	0.89795	0.89854			N/A
11/14/2018	NZDCAD	11:30:00 AM	0.89632	0.89691			N/A
11/14/2018	NZDCAD	1:30:00 PM	0.89666	0.8973			N/A
11/14/2018	NZDCAD	3:30:00 PM	0.89749	0.89771			N/A
11/14/2018	NZDCHF	9:30:00 AM	0.68287	0.68349			N/A
11/14/2018	NZDCHF	11:30:00 AM	0.68309	0.68371			N/A
11/14/2018	NZDCHF	1:30:00 PM	0.68394	0.68445			N/A
11/14/2018	NZDCHF	3:30:00 PM	0.68477	0.68493			N/A
11/14/2018	NZDCZK	9:30:00 AM	15.587	15.595			N/A
11/14/2018	NZDCZK	11:30:00 AM	15.585	15.594			N/A
11/14/2018	NZDCZK	1:30:00 PM	15.622	15.634			N/A
11/14/2018	NZDCZK	3:30:00 PM	15.611	15.617			N/A
11/14/2018	NZDDKK	9:30:00 AM	4.481	4.484			N/A
11/14/2018	NZDDKK	11:30:00 AM					N/A
11/14/2018	NZDDKK	1:30:00 PM					N/A
11/14/2018	NZDDKK	3:30:00 PM	4.482	4.484			N/A
11/14/2018	NZDHKD	9:30:00 AM	5.3127	5.3144			N/A

11/14/2018	NZDHKD	11:30:00 AM	5.3017	5.3046			N/A
11/14/2018	NZDHKD	1:30:00 PM	5.3048	5.3077			N/A
11/14/2018	NZDHKD	3:30:00 PM	5.3181	5.3139			N/A
11/14/2018	NZDHUF	9:30:00 AM	193.93	194.1			N/A
11/14/2018	NZDHUF	11:30:00 AM	193.61	193.74			N/A
11/14/2018	NZDHUF	1:30:00 PM	193.97	194.09			N/A
11/14/2018	NZDHUF	3:30:00 PM	193.66	193.86			N/A
11/14/2018	NZDJPY	9:30:00 AM	77.249	77.311			N/A
11/14/2018	NZDJPY	11:30:00 AM	77.056	77.123			N/A
11/14/2018	NZDJPY	1:30:00 PM	77.145	77.209			N/A
11/14/2018	NZDJPY	3:30:00 PM	77.328	77.34			N/A
11/14/2018	NZDMXN	9:30:00 AM	13.9131	13.9149			N/A
11/14/2018	NZDMXN	11:30:00 AM	13.8851	13.8831			N/A
11/14/2018	NZDMXN	1:30:00 PM	13.8733	13.8783			N/A
11/14/2018	NZDMXN	3:30:00 PM	13.8607	13.8555			N/A
11/14/2018	NZDNOK	9:30:00 AM	5.7582	5.7586			N/A
11/14/2018	NZDNOK	11:30:00 AM	5.7654	5.769			N/A
11/14/2018	NZDNOK	1:30:00 PM	5.7757	5.7793			N/A
11/14/2018	NZDNOK	3:30:00 PM	5.7657	5.7669			N/A
11/14/2018	NZDPLN	9:30:00 AM	2.5798	2.5801			N/A
11/14/2018	NZDPLN	11:30:00 AM	2.5751	2.5764			N/A
11/14/2018	NZDPLN	1:30:00 PM	2.5827	2.5841			N/A
11/14/2018	NZDPLN	3:30:00 PM	2.5762	2.5766			N/A
11/14/2018	NZDSEK	9:30:00 AM	6.1361	6.1417			N/A
11/14/2018	NZDSEK	11:30:00 AM	6.1681	6.1741			N/A
11/14/2018	NZDSEK	1:30:00 PM	6.1749	6.179			N/A
11/14/2018	NZDSEK	3:30:00 PM	6.1668	6.1695			N/A
11/14/2018	NZDSGD	9:30:00 AM	0.9366	0.9371			N/A
11/14/2018	NZDSGD	11:30:00 AM	0.9357	0.9365			N/A
11/14/2018	NZDSGD	1:30:00 PM	0.936	0.9366			N/A
11/14/2018	NZDSGD	3:30:00 PM	0.9371	0.9374			N/A
11/14/2018	NZDUSD	9:30:00 AM	0.67847	0.67846			N/A
11/14/2018	NZDUSD	11:30:00 AM	0.67714	0.67725			N/A
11/14/2018	NZDUSD	1:30:00 PM	0.67749	0.67757			N/A
11/14/2018	NZDUSD	3:30:00 PM	0.67932	0.67854			N/A
11/14/2018	NZDZAR	9:30:00 AM	9.7786	9.7863			N/A
11/14/2018	NZDZAR	11:30:00 AM	9.7371	9.7516			N/A
11/14/2018	NZDZAR	1:30:00 PM	9.7459	9.7627			N/A
11/14/2018	NZDZAR	3:30:00 PM	9.7267	9.7292			N/A
11/14/2018	SEKJPY	9:30:00 AM	12.59	12.6			N/A
11/14/2018	SEKJPY	11:30:00 AM					N/A
11/14/2018	SEKJPY	1:30:00 PM	12.5	12.51			N/A
11/14/2018	SEKJPY	3:30:00 PM	12.54	12.56			N/A
11/14/2018	SGDJPY	9:30:00 AM	82.48	82.5			N/A
11/14/2018	SGDJPY	11:30:00 AM	82.34	82.37			N/A
11/14/2018	SGDJPY	1:30:00 PM	82.41	82.43			N/A
11/14/2018	SGDJPY	3:30:00 PM	82.53	82.52			N/A
11/14/2018	SILVER	9:30:00 AM	13.81	14.18			N/A
11/14/2018	SILVER	11:30:00 AM	13.74	14.1			N/A
11/14/2018	SILVER	1:30:00 PM	13.77	14.13			N/A

11/14/2018	SILVER	3:30:00 PM	13.81	14.16			N/A
11/14/2018	USDCAD	9:30:00 AM	1.32396	1.32386			N/A
11/14/2018	USDCAD	11:30:00 AM	1.32401	1.32395			N/A
11/14/2018	USDCAD	1:30:00 PM	1.32382	1.32393			N/A
11/14/2018	USDCAD	3:30:00 PM	1.32232	1.32132			N/A
11/14/2018	USDCHF	9:30:00 AM	1.00696	1.00682			N/A
11/14/2018	USDCHF	11:30:00 AM	1.00915	1.00911			N/A
11/14/2018	USDCHF	1:30:00 PM	1.0099	1.00981			N/A
11/14/2018	USDCHF	3:30:00 PM	1.00863	1.00842			N/A
11/14/2018	USDCZK	9:30:00 AM	22.975	22.99			N/A
11/14/2018	USDCZK	11:30:00 AM	23.015	23.035			N/A
11/14/2018	USDCZK	1:30:00 PM	23.057	23.081			N/A
11/14/2018	USDCZK	3:30:00 PM	22.998	22.999			N/A
11/14/2018	USDDKK	9:30:00 AM	6.6078	6.6107			N/A
11/14/2018	USDDKK	11:30:00 AM	6.6167	6.6209			N/A
11/14/2018	USDDKK	1:30:00 PM	6.6239	6.6286			N/A
11/14/2018	USDDKK	3:30:00 PM	6.6047	6.6031			N/A
11/14/2018	USDHKD	9:30:00 AM	7.8325	7.833			N/A
11/14/2018	USDHKD	11:30:00 AM	7.8328	7.8333			N/A
11/14/2018	USDHKD	1:30:00 PM					N/A
11/14/2018	USDHKD	3:30:00 PM	7.8326	7.833			N/A
11/14/2018	USDHUF	9:30:00 AM	285.93	286.22			N/A
11/14/2018	USDHUF	11:30:00 AM	286.07	286.47			N/A
11/14/2018	USDHUF	1:30:00 PM	286.39	286.85			N/A
11/14/2018	USDHUF	3:30:00 PM	285.41	285.53			N/A
11/14/2018	USDJPY	9:30:00 AM	113.895	113.9			N/A
11/14/2018	USDJPY	11:30:00 AM	113.831	113.834			N/A
11/14/2018	USDJPY	1:30:00 PM	113.903	113.908			N/A
11/14/2018	USDJPY	3:30:00 PM	113.903	113.866			N/A
11/14/2018	USDMXN	9:30:00 AM	20.515	20.517			N/A
11/14/2018	USDMXN	11:30:00 AM	20.512	20.508			N/A
11/14/2018	USDMXN	1:30:00 PM	20.486	20.488			N/A
11/14/2018	USDMXN	3:30:00 PM	20.431	20.41			N/A
11/14/2018	USDNOK	9:30:00 AM	8.4899	8.4922			N/A
11/14/2018	USDNOK	11:30:00 AM	8.5168	8.5246			N/A
11/14/2018	USDNOK	1:30:00 PM	8.5263	8.5347			N/A
11/14/2018	USDNOK	3:30:00 PM	8.4962	8.496			N/A
11/14/2018	USDPLN	9:30:00 AM	3.8038	3.8027			N/A
11/14/2018	USDPLN	11:30:00 AM	3.8051	3.8055			N/A
11/14/2018	USDPLN	1:30:00 PM	3.8135	3.8148			N/A
11/14/2018	USDPLN	3:30:00 PM	3.7969	3.7943			N/A
11/14/2018	USDRUR	9:30:00 AM					N/A
11/14/2018	USDRUR	11:30:00 AM	67.599	67.968			N/A
11/14/2018	USDRUR	1:30:00 PM	67.628	67.994			N/A
11/14/2018	USDRUR	3:30:00 PM	67.174	67.423			N/A
11/14/2018	USDSEK	9:30:00 AM	9.0491	9.0516			N/A
11/14/2018	USDSEK	11:30:00 AM	9.1141	9.1166			N/A
11/14/2018	USDSEK	1:30:00 PM	9.1167	9.1179			N/A
11/14/2018	USDSEK	3:30:00 PM	9.0884	9.0822			N/A
11/14/2018	USDSGD	9:30:00 AM	1.3805	1.3804			N/A

11/14/2018	USDSGD	11:30:00 AM	1.3818	1.3823			N/A
11/14/2018	USDSGD	1:30:00 PM	1.3814	1.3819			N/A
11/14/2018	USDSGD	3:30:00 PM	1.3797	1.3794			N/A
11/14/2018	USDZAR	9:30:00 AM	14.4246	14.4273			N/A
11/14/2018	USDZAR	11:30:00 AM	14.3894	14.4035			N/A
11/14/2018	USDZAR	1:30:00 PM	14.3936	14.4104			N/A
11/14/2018	USDZAR	3:30:00 PM	14.3354	14.3299			N/A
11/14/2018	XAUUSD	9:30:00 AM	1202.53	1202.18			N/A
11/14/2018	XAUUSD	11:30:00 AM	1200.13	1200.28			N/A
11/14/2018	XAUUSD	1:30:00 PM	1199.9	1199.99			N/A
11/14/2018	XAUUSD	3:30:00 PM	1202.11	1201.62			N/A
11/14/2018	ZARJPY	9:30:00 AM	7.85	7.89			N/A
11/14/2018	ZARJPY	11:30:00 AM					N/A
11/14/2018	ZARJPY	1:30:00 PM					N/A
11/14/2018	ZARJPY	3:30:00 PM	7.91	7.94			N/A
11/15/2018	#AA	9:30:00 AM					N/A
11/15/2018	#AA	11:30:00 AM					N/A
11/15/2018	#AA	1:30:00 PM					N/A
11/15/2018	#AA	3:30:00 PM					N/A
11/15/2018	#AABA	9:30:00 AM					N/A
11/15/2018	#AABA	11:30:00 AM					N/A
11/15/2018	#AABA	1:30:00 PM					N/A
11/15/2018	#AABA	3:30:00 PM					N/A
11/15/2018	#AAL	9:30:00 AM					N/A
11/15/2018	#AAL	11:30:00 AM					N/A
11/15/2018	#AAL	1:30:00 PM					N/A
11/15/2018	#AAL	3:30:00 PM					N/A
11/15/2018	#AAPL	9:30:00 AM					N/A
11/15/2018	#AAPL	11:30:00 AM					N/A
11/15/2018	#AAPL	1:30:00 PM					N/A
11/15/2018	#AAPL	3:30:00 PM					N/A
11/15/2018	#ADBE	9:30:00 AM					N/A
11/15/2018	#ADBE	11:30:00 AM					N/A
11/15/2018	#ADBE	1:30:00 PM					N/A
11/15/2018	#ADBE	3:30:00 PM					N/A
11/15/2018	#AIG	9:30:00 AM					N/A
11/15/2018	#AIG	11:30:00 AM					N/A
11/15/2018	#AIG	1:30:00 PM					N/A
11/15/2018	#AIG	3:30:00 PM					N/A
11/15/2018	#AMD	9:30:00 AM					N/A
11/15/2018	#AMD	11:30:00 AM					N/A
11/15/2018	#AMD	1:30:00 PM					N/A
11/15/2018	#AMD	3:30:00 PM					N/A
11/15/2018	#AMZN	9:30:00 AM					N/A
11/15/2018	#AMZN	11:30:00 AM					N/A
11/15/2018	#AMZN	1:30:00 PM					N/A
11/15/2018	#AMZN	3:30:00 PM					N/A
11/15/2018	#AXP	9:30:00 AM					N/A
11/15/2018	#AXP	11:30:00 AM					N/A
11/15/2018	#AXP	1:30:00 PM					N/A

11/15/2018	#AXP	3:30:00 PM					N/A
11/15/2018	#BA	9:30:00 AM					N/A
11/15/2018	#BA	11:30:00 AM					N/A
11/15/2018	#BA	1:30:00 PM					N/A
11/15/2018	#BA	3:30:00 PM					N/A
11/15/2018	#BABA	9:30:00 AM					N/A
11/15/2018	#BABA	11:30:00 AM					N/A
11/15/2018	#BABA	1:30:00 PM					N/A
11/15/2018	#BABA	3:30:00 PM					N/A
11/15/2018	#BAC	9:30:00 AM					N/A
11/15/2018	#BAC	11:30:00 AM					N/A
11/15/2018	#BAC	1:30:00 PM					N/A
11/15/2018	#BAC	3:30:00 PM					N/A
11/15/2018	#BARC	9:30:00 AM					N/A
11/15/2018	#BARC	11:30:00 AM					N/A
11/15/2018	#BARC	1:30:00 PM					N/A
11/15/2018	#BARC	3:30:00 PM					N/A
11/15/2018	#BHP	9:30:00 AM					N/A
11/15/2018	#BHP	11:30:00 AM					N/A
11/15/2018	#BHP	1:30:00 PM					N/A
11/15/2018	#BHP	3:30:00 PM					N/A
11/15/2018	#BIDU	9:30:00 AM					N/A
11/15/2018	#BIDU	11:30:00 AM					N/A
11/15/2018	#BIDU	1:30:00 PM					N/A
11/15/2018	#BIDU	3:30:00 PM					N/A
11/15/2018	#BK	9:30:00 AM					N/A
11/15/2018	#BK	11:30:00 AM					N/A
11/15/2018	#BK	1:30:00 PM					N/A
11/15/2018	#BK	3:30:00 PM					N/A
11/15/2018	#BLT	9:30:00 AM					N/A
11/15/2018	#BLT	11:30:00 AM					N/A
11/15/2018	#BLT	1:30:00 PM					N/A
11/15/2018	#BLT	3:30:00 PM					N/A
11/15/2018	#BP	9:30:00 AM					N/A
11/15/2018	#BP	11:30:00 AM					N/A
11/15/2018	#BP	1:30:00 PM					N/A
11/15/2018	#BP	3:30:00 PM					N/A
11/15/2018	#BTA	9:30:00 AM					N/A
11/15/2018	#BTA	11:30:00 AM					N/A
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11/15/2018	AUDCZK	11:30:00 AM					N/A
11/15/2018	AUDCZK	1:30:00 PM	16.682	16.696			N/A
11/15/2018	AUDCZK	3:30:00 PM	16.684	16.696			N/A
11/15/2018	AUDDKK	9:30:00 AM	4.7881	4.7924			N/A
11/15/2018	AUDDKK	11:30:00 AM	4.7965	4.8009			N/A
11/15/2018	AUDDKK	1:30:00 PM	4.7921	4.7962			N/A
11/15/2018	AUDDKK	3:30:00 PM	4.7923	4.796			N/A
11/15/2018	AUDHKD	9:30:00 AM	5.6991	5.7021			N/A
11/15/2018	AUDHKD	11:30:00 AM					N/A
11/15/2018	AUDHKD	1:30:00 PM	5.6887	5.6923			N/A

11/15/2018	AUDHKD	3:30:00 PM	5.6852	5.6874			N/A
11/15/2018	AUDHUF	9:30:00 AM	206.67	206.88			N/A
11/15/2018	AUDHUF	11:30:00 AM					N/A
11/15/2018	AUDHUF	1:30:00 PM	206.71	206.92			N/A
11/15/2018	AUDHUF	3:30:00 PM	206.74	206.89			N/A
11/15/2018	AUDJPY	9:30:00 AM	82.677	82.725			N/A
11/15/2018	AUDJPY	11:30:00 AM	82.479	82.542			N/A
11/15/2018	AUDJPY	1:30:00 PM	82.407	82.458			N/A
11/15/2018	AUDJPY	3:30:00 PM	82.31	82.358			N/A
11/15/2018	AUDMXN	9:30:00 AM	14.7704	14.7702			N/A
11/15/2018	AUDMXN	11:30:00 AM					N/A
11/15/2018	AUDMXN	1:30:00 PM	14.7821	14.7895			N/A
11/15/2018	AUDMXN	3:30:00 PM	14.8044	14.8017			N/A
11/15/2018	AUDNOK	9:30:00 AM	6.1676	6.1728			N/A
11/15/2018	AUDNOK	11:30:00 AM					N/A
11/15/2018	AUDNOK	1:30:00 PM	6.1739	6.1784			N/A
11/15/2018	AUDNOK	3:30:00 PM	6.1649	6.1689			N/A
11/15/2018	AUDNZD	9:30:00 AM	1.06917	1.06996			N/A
11/15/2018	AUDNZD	11:30:00 AM	1.06764	1.06806			N/A
11/15/2018	AUDNZD	1:30:00 PM	1.06665	1.06744			N/A
11/15/2018	AUDNZD	3:30:00 PM	1.06577	1.06647			N/A
11/15/2018	AUDPLN	9:30:00 AM	2.7546	2.7574			N/A
11/15/2018	AUDPLN	11:30:00 AM	2.7603	2.7629			N/A
11/15/2018	AUDPLN	1:30:00 PM	2.7568	2.7592			N/A
11/15/2018	AUDPLN	3:30:00 PM	2.7578	2.7603			N/A
11/15/2018	AUDSEK	9:30:00 AM	6.5889	6.5923			N/A
11/15/2018	AUDSEK	11:30:00 AM	6.6065	6.6094			N/A
11/15/2018	AUDSEK	1:30:00 PM	6.5963	6.599			N/A
11/15/2018	AUDSEK	3:30:00 PM	6.587	6.5899			N/A
11/15/2018	AUDSGD	9:30:00 AM	1.0013	1.0015			N/A
11/15/2018	AUDSGD	11:30:00 AM	1.0018	1.0019			N/A
11/15/2018	AUDSGD	1:30:00 PM	1.0011	1.0013			N/A
11/15/2018	AUDSGD	3:30:00 PM	1.0001	1.0002			N/A
11/15/2018	AUDUSD	9:30:00 AM	0.72823	0.72825			N/A
11/15/2018	AUDUSD	11:30:00 AM	0.7278	0.72777			N/A
11/15/2018	AUDUSD	1:30:00 PM	0.72669	0.7267			N/A
11/15/2018	AUDUSD	3:30:00 PM	0.72626	0.72605			N/A
11/15/2018	AUDZAR	9:30:00 AM	10.3609	10.3701			N/A
11/15/2018	AUDZAR	11:30:00 AM	10.4025	10.4185			N/A
11/15/2018	AUDZAR	1:30:00 PM	10.371	10.3823			N/A
11/15/2018	AUDZAR	3:30:00 PM	10.3491	10.3519			N/A
11/15/2018	CADCHF	9:30:00 AM	0.75989	0.76048			N/A
11/15/2018	CADCHF	11:30:00 AM	0.76048	0.76117			N/A
11/15/2018	CADCHF	1:30:00 PM	0.75963	0.7603			N/A
11/15/2018	CADCHF	3:30:00 PM	0.75998	0.76047			N/A
11/15/2018	CADCZK	9:30:00 AM	17.339	17.353			N/A
11/15/2018	CADCZK	11:30:00 AM					N/A
11/15/2018	CADCZK	1:30:00 PM	17.354	17.367			N/A
11/15/2018	CADCZK	3:30:00 PM	17.378	17.386			N/A
11/15/2018	CADDKK	9:30:00 AM					N/A

11/15/2018	CADDKK	11:30:00 AM					N/A
11/15/2018	CADDKK	1:30:00 PM					N/A
11/15/2018	CADDKK	3:30:00 PM	4.992	4.994			N/A
11/15/2018	CADHKD	9:30:00 AM	5.92	5.9239			N/A
11/15/2018	CADHKD	11:30:00 AM					N/A
11/15/2018	CADHKD	1:30:00 PM	5.9178	5.9215			N/A
11/15/2018	CADHKD	3:30:00 PM	5.9221	5.9238			N/A
11/15/2018	CADHUF	9:30:00 AM	214.71	214.85			N/A
11/15/2018	CADHUF	11:30:00 AM					N/A
11/15/2018	CADHUF	1:30:00 PM	215.05	215.21			N/A
11/15/2018	CADHUF	3:30:00 PM	215.34	215.43			N/A
11/15/2018	CADJPY	9:30:00 AM	85.855	85.904			N/A
11/15/2018	CADJPY	11:30:00 AM	85.765	85.822			N/A
11/15/2018	CADJPY	1:30:00 PM	85.698	85.762			N/A
11/15/2018	CADJPY	3:30:00 PM	85.708	85.746			N/A
11/15/2018	CADMXN	9:30:00 AM	15.3453	15.3447			N/A
11/15/2018	CADMXN	11:30:00 AM	15.3688	15.3818			N/A
11/15/2018	CADMXN	1:30:00 PM	15.3801	15.3882			N/A
11/15/2018	CADMXN	3:30:00 PM	15.4224	15.4179			N/A
11/15/2018	CADNOK	9:30:00 AM	6.4072	6.4116			N/A
11/15/2018	CADNOK	11:30:00 AM					N/A
11/15/2018	CADNOK	1:30:00 PM	6.423	6.4263			N/A
11/15/2018	CADNOK	3:30:00 PM	6.4212	6.4248			N/A
11/15/2018	CADPLN	9:30:00 AM	2.8613	2.8628			N/A
11/15/2018	CADPLN	11:30:00 AM					N/A
11/15/2018	CADPLN	1:30:00 PM	2.8671	2.869			N/A
11/15/2018	CADPLN	3:30:00 PM	2.8715	2.8734			N/A
11/15/2018	CADSEK	9:30:00 AM	6.8426	6.8458			N/A
11/15/2018	CADSEK	11:30:00 AM					N/A
11/15/2018	CADSEK	1:30:00 PM	6.8602	6.864			N/A
11/15/2018	CADSEK	3:30:00 PM	6.8587	6.8606			N/A
11/15/2018	CADSGD	9:30:00 AM	1.0401	1.0405			N/A
11/15/2018	CADSGD	11:30:00 AM					N/A
11/15/2018	CADSGD	1:30:00 PM	1.0414	1.0418			N/A
11/15/2018	CADSGD	3:30:00 PM	1.0415	1.0418			N/A
11/15/2018	CADZAR	9:30:00 AM	10.7554	10.7726			N/A
11/15/2018	CADZAR	11:30:00 AM					N/A
11/15/2018	CADZAR	1:30:00 PM	10.7825	10.7938			N/A
11/15/2018	CADZAR	3:30:00 PM	10.768	10.7768			N/A
11/15/2018	CHFCZK	9:30:00 AM	22.812	22.828			N/A
11/15/2018	CHFCZK	11:30:00 AM					N/A
11/15/2018	CHFCZK	1:30:00 PM	22.84	22.851			N/A
11/15/2018	CHFCZK	3:30:00 PM	22.863	22.871			N/A
11/15/2018	CHFDKK	9:30:00 AM	6.543	6.547			N/A
11/15/2018	CHFDKK	11:30:00 AM					N/A
11/15/2018	CHFDKK	1:30:00 PM	6.559	6.563			N/A
11/15/2018	CHFDKK	3:30:00 PM	6.565	6.568			N/A
11/15/2018	CHFHKD	9:30:00 AM	7.7894	7.7922			N/A
11/15/2018	CHFHKD	11:30:00 AM					N/A
11/15/2018	CHFHKD	1:30:00 PM	7.7874	7.7908			N/A

11/15/2018	CHFHKD	3:30:00 PM	7.7904	7.7924			N/A
11/15/2018	CHFHUF	9:30:00 AM	282.42	282.73			N/A
11/15/2018	CHFHUF	11:30:00 AM					N/A
11/15/2018	CHFHUF	1:30:00 PM	282.9	283.29			N/A
11/15/2018	CHFHUF	3:30:00 PM	283.22	283.52			N/A
11/15/2018	CHFJPY	9:30:00 AM	112.94	113			N/A
11/15/2018	CHFJPY	11:30:00 AM	112.736	112.787			N/A
11/15/2018	CHFJPY	1:30:00 PM	112.776	112.834			N/A
11/15/2018	CHFJPY	3:30:00 PM	112.743	112.781			N/A
11/15/2018	CHFMXN	9:30:00 AM	20.1812	20.1883			N/A
11/15/2018	CHFMXN	11:30:00 AM					N/A
11/15/2018	CHFMXN	1:30:00 PM	20.2358	20.2446			N/A
11/15/2018	CHFMXN	3:30:00 PM	20.2834	20.2835			N/A
11/15/2018	CHFNOK	9:30:00 AM	8.4291	8.4366			N/A
11/15/2018	CHFNOK	11:30:00 AM	8.4444	8.4518			N/A
11/15/2018	CHFNOK	1:30:00 PM	8.4518	8.4575			N/A
11/15/2018	CHFNOK	3:30:00 PM	8.4467	8.4522			N/A
11/15/2018	CHFPLN	9:30:00 AM	3.7634	3.7664			N/A
11/15/2018	CHFPLN	11:30:00 AM	3.7727	3.7753			N/A
11/15/2018	CHFPLN	1:30:00 PM	3.7729	3.7752			N/A
11/15/2018	CHFPLN	3:30:00 PM	3.7772	3.7798			N/A
11/15/2018	CHFSEK	9:30:00 AM	9.0037	9.0072			N/A
11/15/2018	CHFSEK	11:30:00 AM	9.0307	9.0343			N/A
11/15/2018	CHFSEK	1:30:00 PM	9.0291	9.032			N/A
11/15/2018	CHFSEK	3:30:00 PM	9.0244	9.0259			N/A
11/15/2018	CHFSGD	9:30:00 AM	1.3679	1.3684			N/A
11/15/2018	CHFSGD	11:30:00 AM	1.3693	1.3696			N/A
11/15/2018	CHFSGD	1:30:00 PM	1.37	1.3704			N/A
11/15/2018	CHFSGD	3:30:00 PM	1.3698	1.3702			N/A
11/15/2018	CHFZAR	9:30:00 AM	14.1543	14.1693			N/A
11/15/2018	CHFZAR	11:30:00 AM					N/A
11/15/2018	CHFZAR	1:30:00 PM	14.1922	14.1987			N/A
11/15/2018	CHFZAR	3:30:00 PM	14.1717	14.1703			N/A
11/15/2018	CZKJPY	9:30:00 AM	4.95	4.954			N/A
11/15/2018	CZKJPY	11:30:00 AM					N/A
11/15/2018	CZKJPY	1:30:00 PM	4.937	4.941			N/A
11/15/2018	CZKJPY	3:30:00 PM	4.932	4.934			N/A
11/15/2018	DKKJPY	9:30:00 AM					N/A
11/15/2018	DKKJPY	11:30:00 AM					N/A
11/15/2018	DKKJPY	1:30:00 PM	17.2	17.21			N/A
11/15/2018	DKKJPY	3:30:00 PM	17.18	17.19			N/A
11/15/2018	EURAUD	9:30:00 AM	1.55709	1.55726			N/A
11/15/2018	EURAUD	11:30:00 AM	1.55426	1.55448			N/A
11/15/2018	EURAUD	1:30:00 PM	1.55591	1.55599			N/A
11/15/2018	EURAUD	3:30:00 PM	1.55581	1.55576			N/A
11/15/2018	EURCAD	9:30:00 AM	1.49976	1.50035			N/A
11/15/2018	EURCAD	11:30:00 AM	1.49519	1.4958			N/A
11/15/2018	EURCAD	1:30:00 PM	1.49642	1.49697			N/A
11/15/2018	EURCAD	3:30:00 PM	1.49491	1.49487			N/A
11/15/2018	EURCHF	9:30:00 AM	1.14028	1.14036			N/A

11/15/2018	EURCHF	11:30:00 AM	1.13782	1.13781			N/A
11/15/2018	EURCHF	1:30:00 PM	1.13751	1.13746			N/A
11/15/2018	EURCHF	3:30:00 PM	1.13632	1.13659			N/A
11/15/2018	EURCZK	9:30:00 AM	26.003	26.04			N/A
11/15/2018	EURCZK	11:30:00 AM	25.977	26.014			N/A
11/15/2018	EURCZK	1:30:00 PM	25.97	26.007			N/A
11/15/2018	EURCZK	3:30:00 PM	25.971	26.01			N/A
11/15/2018	EURDKK	9:30:00 AM	7.4617	7.4629			N/A
11/15/2018	EURDKK	11:30:00 AM	7.4614	7.4624			N/A
11/15/2018	EURDKK	1:30:00 PM	7.461	7.4622			N/A
11/15/2018	EURDKK	3:30:00 PM	7.4613	7.4619			N/A
11/15/2018	EURGBP	9:30:00 AM	0.87167	0.8713			N/A
11/15/2018	EURGBP	11:30:00 AM	0.88318	0.88214		10	N/A
11/15/2018	EURGBP	1:30:00 PM	0.88511	0.88418			N/A
11/15/2018	EURGBP	3:30:00 PM	0.88326	0.88273			N/A
11/15/2018	EURHKD	9:30:00 AM	8.8813	8.884			N/A
11/15/2018	EURHKD	11:30:00 AM	8.8617	8.864			N/A
11/15/2018	EURHKD	1:30:00 PM	8.8573	8.8602			N/A
11/15/2018	EURHKD	3:30:00 PM	8.8537	8.8533			N/A
11/15/2018	EURHUF	9:30:00 AM	321.88	322.63			N/A
11/15/2018	EURHUF	11:30:00 AM	322.15	322.87			N/A
11/15/2018	EURHUF	1:30:00 PM	321.7	322.41			N/A
11/15/2018	EURHUF	3:30:00 PM	321.75	322.42			N/A
11/15/2018	EURJPY	9:30:00 AM	128.828	128.817			N/A
11/15/2018	EURJPY	11:30:00 AM	128.309	128.284			N/A
11/15/2018	EURJPY	1:30:00 PM	128.324	128.299			N/A
11/15/2018	EURJPY	3:30:00 PM	128.177	128.121			N/A
11/15/2018	EURMXN	9:30:00 AM	23.0173	23.0248			N/A
11/15/2018	EURMXN	11:30:00 AM	22.9928	23.0027			N/A
11/15/2018	EURMXN	1:30:00 PM	23.0205	23.0349			N/A
11/15/2018	EURMXN	3:30:00 PM	23.0561	23.0493			N/A
11/15/2018	EURNOK	9:30:00 AM	9.6101	9.6217			N/A
11/15/2018	EURNOK	11:30:00 AM	9.6073	9.618			N/A
11/15/2018	EURNOK	1:30:00 PM	9.6123	9.6226			N/A
11/15/2018	EURNOK	3:30:00 PM	9.5995	9.6081			N/A
11/15/2018	EURNZD	9:30:00 AM	1.66582	1.66658			N/A
11/15/2018	EURNZD	11:30:00 AM	1.66049	1.66052			N/A
11/15/2018	EURNZD	1:30:00 PM	1.6607	1.66117			N/A
11/15/2018	EURNZD	3:30:00 PM	1.6593	1.65936			N/A
11/15/2018	EURPLN	9:30:00 AM	4.2916	4.2947			N/A
11/15/2018	EURPLN	11:30:00 AM	4.2928	4.2959			N/A
11/15/2018	EURPLN	1:30:00 PM	4.2918	4.2941			N/A
11/15/2018	EURPLN	3:30:00 PM	4.2928	4.2959			N/A
11/15/2018	EURRUR	9:30:00 AM					N/A
11/15/2018	EURRUR	11:30:00 AM	75.011	75.426			N/A
11/15/2018	EURRUR	1:30:00 PM	75.048	75.467			N/A
11/15/2018	EURRUR	3:30:00 PM	74.918	75.299			N/A
11/15/2018	EURSEK	9:30:00 AM	10.2661	10.27			N/A
11/15/2018	EURSEK	11:30:00 AM	10.274	10.2777			N/A
11/15/2018	EURSEK	1:30:00 PM	10.2688	10.2739			N/A

11/15/2018	EURSEK	3:30:00 PM	10.256	10.2567			N/A
11/15/2018	EURSGD	9:30:00 AM	1.5597	1.5605			N/A
11/15/2018	EURSGD	11:30:00 AM	1.558	1.5582			N/A
11/15/2018	EURSGD	1:30:00 PM	1.5582	1.5589			N/A
11/15/2018	EURSGD	3:30:00 PM	1.5566	1.5569			N/A
11/15/2018	EURUSD	9:30:00 AM	1.13439	1.13425			N/A
11/15/2018	EURUSD	11:30:00 AM	1.13174	1.13144			N/A
11/15/2018	EURUSD	1:30:00 PM	1.13103	1.13084			N/A
11/15/2018	EURUSD	3:30:00 PM	1.13042	1.12987			N/A
11/15/2018	EURZAR	9:30:00 AM	16.1421	16.161			N/A
11/15/2018	EURZAR	11:30:00 AM	16.1824	16.1936			N/A
11/15/2018	EURZAR	1:30:00 PM	16.1435	16.1592			N/A
11/15/2018	EURZAR	3:30:00 PM	16.1113	16.1107			N/A
11/15/2018	GBPAUD	9:30:00 AM	1.7877	1.7873			N/A
11/15/2018	GBPAUD	11:30:00 AM	1.76265	1.76094			N/A
11/15/2018	GBPAUD	1:30:00 PM	1.76013	1.7591			N/A
11/15/2018	GBPAUD	3:30:00 PM	1.76287	1.76255			N/A
11/15/2018	GBPCAD	9:30:00 AM	1.72144	1.72108			N/A
11/15/2018	GBPCAD	11:30:00 AM	1.69525	1.69352			N/A
11/15/2018	GBPCAD	1:30:00 PM	1.69252	1.69143			N/A
11/15/2018	GBPCAD	3:30:00 PM	1.69326	1.69267			N/A
11/15/2018	GBPCHF	9:30:00 AM	1.30854	1.30841			N/A
11/15/2018	GBPCHF	11:30:00 AM	1.28981	1.28835			N/A
11/15/2018	GBPCHF	1:30:00 PM	1.2864	1.28535			N/A
11/15/2018	GBPCHF	3:30:00 PM	1.28714	1.28683			N/A
11/15/2018	GBPCZK	9:30:00 AM	29.847	29.857			N/A
11/15/2018	GBPCZK	11:30:00 AM					N/A
11/15/2018	GBPCZK	1:30:00 PM	29.373	29.364			N/A
11/15/2018	GBPCZK	3:30:00 PM	29.419	29.424			N/A
11/15/2018	GBPDKK	9:30:00 AM	8.56	8.568			N/A
11/15/2018	GBPDKK	11:30:00 AM	8.455	8.456			N/A
11/15/2018	GBPDKK	1:30:00 PM	8.435	8.438			N/A
11/15/2018	GBPDKK	3:30:00 PM	8.449	8.455			N/A
11/15/2018	GBPHKD	9:30:00 AM	10.1919	10.1903			N/A
11/15/2018	GBPHKD	11:30:00 AM					N/A
11/15/2018	GBPHKD	1:30:00 PM	10.0162	10.01			N/A
11/15/2018	GBPHKD	3:30:00 PM	10.0259	10.0213			N/A
11/15/2018	GBPHUF	9:30:00 AM	369.51	369.77			N/A
11/15/2018	GBPHUF	11:30:00 AM					N/A
11/15/2018	GBPHUF	1:30:00 PM	363.84	363.97			N/A
11/15/2018	GBPHUF	3:30:00 PM	364.43	364.72			N/A
11/15/2018	GBPJPY	9:30:00 AM	147.839	147.811			N/A
11/15/2018	GBPJPY	11:30:00 AM	145.45	145.283			N/A
11/15/2018	GBPJPY	1:30:00 PM	145.126	144.988			N/A
11/15/2018	GBPJPY	3:30:00 PM	145.174	145.077			N/A
11/15/2018	GBPMXN	9:30:00 AM	26.4012	26.4013			N/A
11/15/2018	GBPMXN	11:30:00 AM					N/A
11/15/2018	GBPMXN	1:30:00 PM	26.0227	26.0133			N/A
11/15/2018	GBPMXN	3:30:00 PM	26.106	26.0856			N/A
11/15/2018	GBPNOK	9:30:00 AM	11.0315	11.0369			N/A

11/15/2018	GBPNOK	11:30:00 AM	10.893	10.8886			N/A
11/15/2018	GBPNOK	1:30:00 PM	10.8721	10.8708			N/A
11/15/2018	GBPNOK	3:30:00 PM	10.8719	10.8771			N/A
11/15/2018	GBPNZD	9:30:00 AM	1.91194	1.91175			N/A
11/15/2018	GBPNZD	11:30:00 AM	1.88241	1.87992			N/A
11/15/2018	GBPNZD	1:30:00 PM	1.87812	1.87709			N/A
11/15/2018	GBPNZD	3:30:00 PM	1.87942	1.8791			N/A
11/15/2018	GBPPLN	9:30:00 AM	4.9264	4.9261			N/A
11/15/2018	GBPPLN	11:30:00 AM	4.8674	4.8633			N/A
11/15/2018	GBPPLN	1:30:00 PM	4.8544	4.8506			N/A
11/15/2018	GBPPLN	3:30:00 PM	4.8636	4.8627			N/A
11/15/2018	GBPSEK	9:30:00 AM	11.7813	11.7837			N/A
11/15/2018	GBPSEK	11:30:00 AM	11.6454	11.6395			N/A
11/15/2018	GBPSEK	1:30:00 PM	11.6123	11.6087			N/A
11/15/2018	GBPSEK	3:30:00 PM	11.6139	11.6156			N/A
11/15/2018	GBPSGD	9:30:00 AM	1.7902	1.7901			N/A
11/15/2018	GBPSGD	11:30:00 AM	1.7664	1.7642			N/A
11/15/2018	GBPSGD	1:30:00 PM	1.7625	1.7613			N/A
11/15/2018	GBPSGD	3:30:00 PM	1.7633	1.7627			N/A
11/15/2018	GBPUSD	9:30:00 AM	1.30222	1.30135			N/A
11/15/2018	GBPUSD	11:30:00 AM	1.28329	1.28116		6000	N/A
11/15/2018	GBPUSD	1:30:00 PM	1.27948	1.27794			N/A
11/15/2018	GBPUSD	3:30:00 PM	1.28057	1.27924			N/A
11/15/2018	GBPZAR	9:30:00 AM	18.5239	18.5427			N/A
11/15/2018	GBPZAR	11:30:00 AM	18.3382	18.3391			N/A
11/15/2018	GBPZAR	1:30:00 PM	18.2561	18.261			N/A
11/15/2018	GBPZAR	3:30:00 PM	18.242	18.2435			N/A
11/15/2018	GOLD	9:30:00 AM	1213.27	1213.12			N/A
11/15/2018	GOLD	11:30:00 AM	1214.77	1214.85			N/A
11/15/2018	GOLD	1:30:00 PM	1210.56	1210.55			N/A
11/15/2018	GOLD	3:30:00 PM	1209.93	1208.91			N/A
11/15/2018	HKDJPY	9:30:00 AM					N/A
11/15/2018	HKDJPY	11:30:00 AM					N/A
11/15/2018	HKDJPY	1:30:00 PM					N/A
11/15/2018	HKDJPY	3:30:00 PM	14.48	14.49			N/A
11/15/2018	HUFJPY	9:30:00 AM	0.3997	0.4			N/A
11/15/2018	HUFJPY	11:30:00 AM					N/A
11/15/2018	HUFJPY	1:30:00 PM	0.3986	0.3989			N/A
11/15/2018	HUFJPY	3:30:00 PM	0.3982	0.3985			N/A
11/15/2018	MXNJPY	9:30:00 AM					N/A
11/15/2018	MXNJPY	11:30:00 AM					N/A
11/15/2018	MXNJPY	1:30:00 PM					N/A
11/15/2018	MXNJPY	3:30:00 PM					N/A
11/15/2018	NOKJPY	9:30:00 AM					N/A
11/15/2018	NOKJPY	11:30:00 AM					N/A
11/15/2018	NOKJPY	1:30:00 PM	13.34	13.37			N/A
11/15/2018	NOKJPY	3:30:00 PM					N/A
11/15/2018	NZDCAD	9:30:00 AM	0.90001	0.90055			N/A
11/15/2018	NZDCAD	11:30:00 AM	0.90046	0.90081			N/A
11/15/2018	NZDCAD	1:30:00 PM	0.90083	0.90139			N/A

11/15/2018	NZDCAD	3:30:00 PM	0.90079	0.901			N/A
11/15/2018	NZDCHF	9:30:00 AM	0.68405	0.68475			N/A
11/15/2018	NZDCHF	11:30:00 AM	0.685	0.68547			N/A
11/15/2018	NZDCHF	1:30:00 PM	0.68451	0.6851			N/A
11/15/2018	NZDCHF	3:30:00 PM	0.68459	0.68509			N/A
11/15/2018	NZDCZK	9:30:00 AM	15.607	15.619			N/A
11/15/2018	NZDCZK	11:30:00 AM					N/A
11/15/2018	NZDCZK	1:30:00 PM	15.636	15.646			N/A
11/15/2018	NZDCZK	3:30:00 PM	15.649	15.659			N/A
11/15/2018	NZDDKK	9:30:00 AM	4.476	4.48			N/A
11/15/2018	NZDDKK	11:30:00 AM					N/A
11/15/2018	NZDDKK	1:30:00 PM	4.491	4.494			N/A
11/15/2018	NZDDKK	3:30:00 PM	4.495	4.498			N/A
11/15/2018	NZDHKD	9:30:00 AM	5.3284	5.3313			N/A
11/15/2018	NZDHKD	11:30:00 AM					N/A
11/15/2018	NZDHKD	1:30:00 PM	5.3315	5.3336			N/A
11/15/2018	NZDHKD	3:30:00 PM	5.3327	5.3338			N/A
11/15/2018	NZDHUF	9:30:00 AM	193.2	193.44			N/A
11/15/2018	NZDHUF	11:30:00 AM					N/A
11/15/2018	NZDHUF	1:30:00 PM	193.67	193.94			N/A
11/15/2018	NZDHUF	3:30:00 PM	193.86	194.08			N/A
11/15/2018	NZDJPY	9:30:00 AM	77.289	77.349			N/A
11/15/2018	NZDJPY	11:30:00 AM	77.252	77.286			N/A
11/15/2018	NZDJPY	1:30:00 PM	77.223	77.278			N/A
11/15/2018	NZDJPY	3:30:00 PM	77.208	77.252			N/A
11/15/2018	NZDMXN	9:30:00 AM	13.8094	13.808			N/A
11/15/2018	NZDMXN	11:30:00 AM					N/A
11/15/2018	NZDMXN	1:30:00 PM	13.8536	13.8583			N/A
11/15/2018	NZDMXN	3:30:00 PM	13.8857	13.8811			N/A
11/15/2018	NZDNOK	9:30:00 AM	5.7669	5.7707			N/A
11/15/2018	NZDNOK	11:30:00 AM					N/A
11/15/2018	NZDNOK	1:30:00 PM	5.7864	5.7887			N/A
11/15/2018	NZDNOK	3:30:00 PM	5.7834	5.7842			N/A
11/15/2018	NZDPLN	9:30:00 AM	2.5756	2.5768			N/A
11/15/2018	NZDPLN	11:30:00 AM					N/A
11/15/2018	NZDPLN	1:30:00 PM	2.5828	2.5842			N/A
11/15/2018	NZDPLN	3:30:00 PM	2.5857	2.5869			N/A
11/15/2018	NZDSEK	9:30:00 AM	6.1571	6.1638			N/A
11/15/2018	NZDSEK	11:30:00 AM					N/A
11/15/2018	NZDSEK	1:30:00 PM	6.1783	6.1852			N/A
11/15/2018	NZDSEK	3:30:00 PM	6.1753	6.1793			N/A
11/15/2018	NZDSGD	9:30:00 AM	0.9361	0.9368			N/A
11/15/2018	NZDSGD	11:30:00 AM	0.9384	0.9388			N/A
11/15/2018	NZDSGD	1:30:00 PM	0.9382	0.9388			N/A
11/15/2018	NZDSGD	3:30:00 PM	0.9381	0.9385			N/A
11/15/2018	NZDUSD	9:30:00 AM	0.68082	0.68085			N/A
11/15/2018	NZDUSD	11:30:00 AM	0.68156	0.68145			N/A
11/15/2018	NZDUSD	1:30:00 PM	0.68096	0.68098			N/A
11/15/2018	NZDUSD	3:30:00 PM	0.6812	0.68097			N/A
11/15/2018	NZDZAR	9:30:00 AM	9.6795	9.6971			N/A

11/15/2018	NZDZAR	11:30:00 AM					N/A
11/15/2018	NZDZAR	1:30:00 PM	9.7121	9.7256			N/A
11/15/2018	NZDZAR	3:30:00 PM	9.6977	9.7039			N/A
11/15/2018	SEKJPY	9:30:00 AM					N/A
11/15/2018	SEKJPY	11:30:00 AM					N/A
11/15/2018	SEKJPY	1:30:00 PM	12.5	12.51			N/A
11/15/2018	SEKJPY	3:30:00 PM					N/A
11/15/2018	SGDJPY	9:30:00 AM	82.55	82.57			N/A
11/15/2018	SGDJPY	11:30:00 AM	82.32	82.33			N/A
11/15/2018	SGDJPY	1:30:00 PM	82.3	82.33			N/A
11/15/2018	SGDJPY	3:30:00 PM	82.29	82.31			N/A
11/15/2018	SILVER	9:30:00 AM	14.01	14.38			N/A
11/15/2018	SILVER	11:30:00 AM	14	14.36			N/A
11/15/2018	SILVER	1:30:00 PM	13.95	14.31			N/A
11/15/2018	SILVER	3:30:00 PM	13.94	14.29			N/A
11/15/2018	USDCAD	9:30:00 AM	1.32229	1.32239			N/A
11/15/2018	USDCAD	11:30:00 AM	1.32154	1.32146			N/A
11/15/2018	USDCAD	1:30:00 PM	1.32322	1.32324			N/A
11/15/2018	USDCAD	3:30:00 PM	1.32285	1.32259			N/A
11/15/2018	USDCHF	9:30:00 AM	1.00519	1.00513			N/A
11/15/2018	USDCHF	11:30:00 AM	1.00539	1.00535			N/A
11/15/2018	USDCHF	1:30:00 PM	1.00562	1.00562			N/A
11/15/2018	USDCHF	3:30:00 PM	1.00524	1.00569			N/A
11/15/2018	USDCZK	9:30:00 AM	22.925	22.944			N/A
11/15/2018	USDCZK	11:30:00 AM	22.959	22.976			N/A
11/15/2018	USDCZK	1:30:00 PM	22.962	22.983			N/A
11/15/2018	USDCZK	3:30:00 PM	22.985	22.998			N/A
11/15/2018	USDDKK	9:30:00 AM	6.5787	6.5828			N/A
11/15/2018	USDDKK	11:30:00 AM	6.5947	6.5979			N/A
11/15/2018	USDDKK	1:30:00 PM	6.5983	6.6022			N/A
11/15/2018	USDDKK	3:30:00 PM	6.6039	6.6057			N/A
11/15/2018	USDHKD	9:30:00 AM	7.8297	7.8299			N/A
11/15/2018	USDHKD	11:30:00 AM	7.8311	7.8314			N/A
11/15/2018	USDHKD	1:30:00 PM	7.8318	7.8322			N/A
11/15/2018	USDHKD	3:30:00 PM	7.833	7.8328			N/A
11/15/2018	USDHUF	9:30:00 AM	283.86	284.29			N/A
11/15/2018	USDHUF	11:30:00 AM	284.77	285.16			N/A
11/15/2018	USDHUF	1:30:00 PM	284.5	284.93			N/A
11/15/2018	USDHUF	3:30:00 PM	284.79	285.1			N/A
11/15/2018	USDJPY	9:30:00 AM	113.562	113.55			N/A
11/15/2018	USDJPY	11:30:00 AM	113.378	113.367			N/A
11/15/2018	USDJPY	1:30:00 PM	113.434	113.442			N/A
11/15/2018	USDJPY	3:30:00 PM	113.388	113.365			N/A
11/15/2018	USDMXN	9:30:00 AM	20.293	20.289			N/A
11/15/2018	USDMXN	11:30:00 AM	20.321	20.32			N/A
11/15/2018	USDMXN	1:30:00 PM	20.354	20.357			N/A
11/15/2018	USDMXN	3:30:00 PM	20.402	20.388			N/A
11/15/2018	USDNOK	9:30:00 AM	8.4732	8.4814			N/A
11/15/2018	USDNOK	11:30:00 AM	8.4913	8.4988			N/A
11/15/2018	USDNOK	1:30:00 PM	8.5004	8.5066			N/A

11/15/2018	USDNOK	3:30:00 PM	8.4944	8.5003			N/A
11/15/2018	USDPLN	9:30:00 AM	3.784	3.7846			N/A
11/15/2018	USDPLN	11:30:00 AM	3.7944	3.7946			N/A
11/15/2018	USDPLN	1:30:00 PM	3.795	3.7954			N/A
11/15/2018	USDPLN	3:30:00 PM	3.7996	3.7989			N/A
11/15/2018	USDRUR	9:30:00 AM					N/A
11/15/2018	USDRUR	11:30:00 AM	66.36	66.736			N/A
11/15/2018	USDRUR	1:30:00 PM	66.43	66.797			N/A
11/15/2018	USDRUR	3:30:00 PM	66.363	66.725			N/A
11/15/2018	USDSEK	9:30:00 AM	9.0475	9.0512			N/A
11/15/2018	USDSEK	11:30:00 AM	9.0775	9.0803			N/A
11/15/2018	USDSEK	1:30:00 PM	9.0777	9.0811			N/A
11/15/2018	USDSEK	3:30:00 PM	9.072	9.0733			N/A
11/15/2018	USDSGD	9:30:00 AM	1.375	1.3752			N/A
11/15/2018	USDSGD	11:30:00 AM	1.3767	1.3769			N/A
11/15/2018	USDSGD	1:30:00 PM	1.3777	1.378			N/A
11/15/2018	USDSGD	3:30:00 PM	1.3774	1.3774			N/A
11/15/2018	USDZAR	9:30:00 AM	14.2272	14.2451			N/A
11/15/2018	USDZAR	11:30:00 AM	14.2958	14.3119			N/A
11/15/2018	USDZAR	1:30:00 PM	14.2731	14.2855			N/A
11/15/2018	USDZAR	3:30:00 PM	14.2539	14.2558			N/A
11/15/2018	XAUUSD	9:30:00 AM	1213.27	1213.29			N/A
11/15/2018	XAUUSD	11:30:00 AM	1214.8	1214.84			N/A
11/15/2018	XAUUSD	1:30:00 PM	1210.57	1210.66			N/A
11/15/2018	XAUUSD	3:30:00 PM	1210.04	1208.91			N/A
11/15/2018	ZARJPY	9:30:00 AM					N/A
11/15/2018	ZARJPY	11:30:00 AM					N/A
11/15/2018	ZARJPY	1:30:00 PM	7.89	7.93			N/A
11/15/2018	ZARJPY	3:30:00 PM	7.91	7.94			N/A
11/16/2018	#AA	9:30:00 AM					N/A
11/16/2018	#AA	11:30:00 AM					N/A
11/16/2018	#AA	1:30:00 PM					N/A
11/16/2018	#AA	3:30:00 PM					N/A
11/16/2018	#AABA	9:30:00 AM					N/A
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11/16/2018	#AABA	1:30:00 PM					N/A
11/16/2018	#AABA	3:30:00 PM					N/A
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11/16/2018	#AAPL	3:30:00 PM					N/A
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11/16/2018	#ADBE	1:30:00 PM					N/A
11/16/2018	#ADBE	3:30:00 PM					N/A
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11/16/2018	#AIG	3:30:00 PM					N/A
11/16/2018	#AMD	9:30:00 AM					N/A
11/16/2018	#AMD	11:30:00 AM					N/A
11/16/2018	#AMD	1:30:00 PM					N/A
11/16/2018	#AMD	3:30:00 PM					N/A
11/16/2018	#AMZN	9:30:00 AM					N/A
11/16/2018	#AMZN	11:30:00 AM					N/A
11/16/2018	#AMZN	1:30:00 PM					N/A
11/16/2018	#AMZN	3:30:00 PM					N/A
11/16/2018	#AXP	9:30:00 AM					N/A
11/16/2018	#AXP	11:30:00 AM					N/A
11/16/2018	#AXP	1:30:00 PM					N/A
11/16/2018	#AXP	3:30:00 PM					N/A
11/16/2018	#BA	9:30:00 AM					N/A
11/16/2018	#BA	11:30:00 AM					N/A
11/16/2018	#BA	1:30:00 PM					N/A
11/16/2018	#BA	3:30:00 PM					N/A
11/16/2018	#BABA	9:30:00 AM					N/A
11/16/2018	#BABA	11:30:00 AM					N/A
11/16/2018	#BABA	1:30:00 PM					N/A
11/16/2018	#BABA	3:30:00 PM					N/A
11/16/2018	#BAC	9:30:00 AM					N/A
11/16/2018	#BAC	11:30:00 AM					N/A
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11/16/2018	#BAC	3:30:00 PM					N/A
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11/16/2018	#BARC	11:30:00 AM					N/A
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11/16/2018	#BARC	3:30:00 PM					N/A
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11/16/2018	#BHP	11:30:00 AM					N/A
11/16/2018	#BHP	1:30:00 PM					N/A
11/16/2018	#BHP	3:30:00 PM					N/A
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11/16/2018	#BIDU	11:30:00 AM					N/A
11/16/2018	#BIDU	1:30:00 PM					N/A
11/16/2018	#BIDU	3:30:00 PM					N/A
11/16/2018	#BK	9:30:00 AM					N/A
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11/16/2018	#BP	1:30:00 PM					N/A

11/16/2018	#BP	3:30:00 PM					N/A
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11/16/2018	#BTA	11:30:00 AM					N/A
11/16/2018	#BTA	1:30:00 PM					N/A
11/16/2018	#BTA	3:30:00 PM					N/A
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11/16/2018	#C	11:30:00 AM					N/A
11/16/2018	#C	1:30:00 PM					N/A
11/16/2018	#C	3:30:00 PM					N/A
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11/16/2018	#CAT	11:30:00 AM					N/A
11/16/2018	#CAT	1:30:00 PM					N/A
11/16/2018	#CAT	3:30:00 PM					N/A
11/16/2018	#CHL	9:30:00 AM					N/A
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11/16/2018	#CHL	3:30:00 PM					N/A
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11/16/2018	#CMCSA	11:30:00 AM					N/A
11/16/2018	#CMCSA	1:30:00 PM					N/A
11/16/2018	#CMCSA	3:30:00 PM					N/A
11/16/2018	#CSCO	9:30:00 AM					N/A
11/16/2018	#CSCO	11:30:00 AM					N/A
11/16/2018	#CSCO	1:30:00 PM					N/A
11/16/2018	#CSCO	3:30:00 PM					N/A
11/16/2018	#CVX	9:30:00 AM					N/A
11/16/2018	#CVX	11:30:00 AM					N/A
11/16/2018	#CVX	1:30:00 PM					N/A
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11/16/2018	AUDJPY	3:30:00 PM	82.119	82.165			N/A
11/16/2018	AUDMXN	9:30:00 AM	14.7098	14.7189			N/A
11/16/2018	AUDMXN	11:30:00 AM	14.7071	14.7152			N/A
11/16/2018	AUDMXN	1:30:00 PM	14.7342	14.7405			N/A
11/16/2018	AUDMXN	3:30:00 PM	14.778	14.78			N/A
11/16/2018	AUDNOK	9:30:00 AM	6.1581	6.1634			N/A
11/16/2018	AUDNOK	11:30:00 AM	6.1516	6.1573			N/A
11/16/2018	AUDNOK	1:30:00 PM	6.153	6.1589			N/A
11/16/2018	AUDNOK	3:30:00 PM	6.1532	6.1589			N/A
11/16/2018	AUDNZD	9:30:00 AM	1.06611	1.06677			N/A
11/16/2018	AUDNZD	11:30:00 AM	1.06658	1.06742			N/A
11/16/2018	AUDNZD	1:30:00 PM	1.06553	1.06642			N/A
11/16/2018	AUDNZD	3:30:00 PM	1.06536	1.06615			N/A
11/16/2018	AUDPLN	9:30:00 AM	2.7512	2.7539			N/A
11/16/2018	AUDPLN	11:30:00 AM	2.7462	2.7493			N/A
11/16/2018	AUDPLN	1:30:00 PM	2.7564	2.7592			N/A
11/16/2018	AUDPLN	3:30:00 PM	2.7649	2.7678			N/A
11/16/2018	AUDSEK	9:30:00 AM	6.581	6.5834			N/A
11/16/2018	AUDSEK	11:30:00 AM	6.5708	6.5743			N/A
11/16/2018	AUDSEK	1:30:00 PM	6.5724	6.575			N/A
11/16/2018	AUDSEK	3:30:00 PM	6.5746	6.577			N/A
11/16/2018	AUDSGD	9:30:00 AM	1.001	1.0013			N/A
11/16/2018	AUDSGD	11:30:00 AM	0.9992	0.9996			N/A
11/16/2018	AUDSGD	1:30:00 PM	0.9984	0.9987			N/A
11/16/2018	AUDSGD	3:30:00 PM	0.9989	0.9992			N/A
11/16/2018	AUDUSD	9:30:00 AM	0.72813	0.72819			N/A
11/16/2018	AUDUSD	11:30:00 AM	0.72625	0.72623			N/A
11/16/2018	AUDUSD	1:30:00 PM	0.7252	0.72526			N/A

11/16/2018	AUDUSD	3:30:00 PM	0.72597	0.72601			N/A
11/16/2018	AUDZAR	9:30:00 AM	10.3353	10.3437			N/A
11/16/2018	AUDZAR	11:30:00 AM	10.3097	10.3226			N/A
11/16/2018	AUDZAR	1:30:00 PM	10.3216	10.3359			N/A
11/16/2018	AUDZAR	3:30:00 PM	10.3086	10.3191			N/A
11/16/2018	CADCHF	9:30:00 AM	0.76415	0.76486			N/A
11/16/2018	CADCHF	11:30:00 AM	0.76413	0.76481			N/A
11/16/2018	CADCHF	1:30:00 PM	0.76522	0.76592			N/A
11/16/2018	CADCHF	3:30:00 PM	0.76473	0.76539			N/A
11/16/2018	CADCZK	9:30:00 AM	17.405	17.418			N/A
11/16/2018	CADCZK	11:30:00 AM	17.388	17.403			N/A
11/16/2018	CADCZK	1:30:00 PM	17.417	17.434			N/A
11/16/2018	CADCZK	3:30:00 PM	17.398	17.409			N/A
11/16/2018	CADDKK	9:30:00 AM	4.995	4.999			N/A
11/16/2018	CADDKK	11:30:00 AM	4.992	4.995			N/A
11/16/2018	CADDKK	1:30:00 PM	5.001	5.004			N/A
11/16/2018	CADDKK	3:30:00 PM	4.997	5.001			N/A
11/16/2018	CADHKD	9:30:00 AM	5.9503	5.9541			N/A
11/16/2018	CADHKD	11:30:00 AM	5.9471	5.951			N/A
11/16/2018	CADHKD	1:30:00 PM	5.9436	5.9475			N/A
11/16/2018	CADHKD	3:30:00 PM	5.9422	5.946			N/A
11/16/2018	CADHUF	9:30:00 AM	215.44	215.55			N/A
11/16/2018	CADHUF	11:30:00 AM	215.12	215.25			N/A
11/16/2018	CADHUF	1:30:00 PM	215.56	215.72			N/A
11/16/2018	CADHUF	3:30:00 PM	215.62	215.74			N/A
11/16/2018	CADJPY	9:30:00 AM	86.046	86.114			N/A
11/16/2018	CADJPY	11:30:00 AM	86.023	86.097			N/A
11/16/2018	CADJPY	1:30:00 PM	85.981	86.045			N/A
11/16/2018	CADJPY	3:30:00 PM	85.822	85.877			N/A
11/16/2018	CADMXN	9:30:00 AM	15.3583	15.3682			N/A
11/16/2018	CADMXN	11:30:00 AM	15.3844	15.3962			N/A
11/16/2018	CADMXN	1:30:00 PM	15.4268	15.4347			N/A
11/16/2018	CADMXN	3:30:00 PM	15.4508	15.4556			N/A
11/16/2018	CADNOK	9:30:00 AM	6.429	6.4339			N/A
11/16/2018	CADNOK	11:30:00 AM	6.4362	6.4397			N/A
11/16/2018	CADNOK	1:30:00 PM	6.4432	6.4473			N/A
11/16/2018	CADNOK	3:30:00 PM	6.4344	6.4386			N/A
11/16/2018	CADPLN	9:30:00 AM	2.8713	2.8731			N/A
11/16/2018	CADPLN	11:30:00 AM	2.8724	2.8742			N/A
11/16/2018	CADPLN	1:30:00 PM	2.8855	2.8874			N/A
11/16/2018	CADPLN	3:30:00 PM	2.8902	2.8921			N/A
11/16/2018	CADSEK	9:30:00 AM	6.8686	6.8712			N/A
11/16/2018	CADSEK	11:30:00 AM	6.873	6.8756			N/A
11/16/2018	CADSEK	1:30:00 PM	6.8807	6.8825			N/A
11/16/2018	CADSEK	3:30:00 PM	6.8722	6.8753			N/A
11/16/2018	CADSGD	9:30:00 AM	1.0448	1.0451			N/A
11/16/2018	CADSGD	11:30:00 AM	1.0452	1.0455			N/A
11/16/2018	CADSGD	1:30:00 PM	1.0451	1.0454			N/A
11/16/2018	CADSGD	3:30:00 PM	1.0443	1.0446			N/A
11/16/2018	CADZAR	9:30:00 AM	10.7804	10.7937			N/A

11/16/2018	CADZAR	11:30:00 AM	10.7778	10.7928			N/A
11/16/2018	CADZAR	1:30:00 PM	10.8006	10.8179			N/A
11/16/2018	CADZAR	3:30:00 PM	10.7702	10.7878			N/A
11/16/2018	CHFCZK	9:30:00 AM	22.771	22.783			N/A
11/16/2018	CHFCZK	11:30:00 AM	22.748	22.762			N/A
11/16/2018	CHFCZK	1:30:00 PM	22.754	22.768			N/A
11/16/2018	CHFCZK	3:30:00 PM	22.745	22.755			N/A
11/16/2018	CHFDKK	9:30:00 AM	6.534	6.538			N/A
11/16/2018	CHFDKK	11:30:00 AM	6.53	6.534			N/A
11/16/2018	CHFDKK	1:30:00 PM					N/A
11/16/2018	CHFDKK	3:30:00 PM	6.531	6.535			N/A
11/16/2018	CHFHKD	9:30:00 AM	7.7847	7.7883			N/A
11/16/2018	CHFHKD	11:30:00 AM	7.781	7.7848			N/A
11/16/2018	CHFHKD	1:30:00 PM	7.7649	7.7689			N/A
11/16/2018	CHFHKD	3:30:00 PM	7.7673	7.7709			N/A
11/16/2018	CHFHUF	9:30:00 AM	281.75	282.06			N/A
11/16/2018	CHFHUF	11:30:00 AM	281.32	281.68			N/A
11/16/2018	CHFHUF	1:30:00 PM	281.49	281.87			N/A
11/16/2018	CHFHUF	3:30:00 PM	281.75	282.05			N/A
11/16/2018	CHFJPY	9:30:00 AM	112.561	112.63			N/A
11/16/2018	CHFJPY	11:30:00 AM	112.545	112.61			N/A
11/16/2018	CHFJPY	1:30:00 PM	112.319	112.378			N/A
11/16/2018	CHFJPY	3:30:00 PM	112.197	112.239			N/A
11/16/2018	CHFMXN	9:30:00 AM	20.0861	20.1017			N/A
11/16/2018	CHFMXN	11:30:00 AM	20.1225	20.1388			N/A
11/16/2018	CHFMXN	1:30:00 PM	20.1487	20.1622			N/A
11/16/2018	CHFMXN	3:30:00 PM	20.1943	20.2003			N/A
11/16/2018	CHFNOK	9:30:00 AM	8.4097	8.4168			N/A
11/16/2018	CHFNOK	11:30:00 AM	8.4188	8.4257			N/A
11/16/2018	CHFNOK	1:30:00 PM	8.416	8.4238			N/A
11/16/2018	CHFNOK	3:30:00 PM	8.4104	8.4167			N/A
11/16/2018	CHFPLN	9:30:00 AM	3.7561	3.7586			N/A
11/16/2018	CHFPLN	11:30:00 AM	3.7576	3.7605			N/A
11/16/2018	CHFPLN	1:30:00 PM	3.7692	3.7721			N/A
11/16/2018	CHFPLN	3:30:00 PM	3.7779	3.7809			N/A
11/16/2018	CHFSEK	9:30:00 AM	8.9862	8.9881			N/A
11/16/2018	CHFSEK	11:30:00 AM	8.992	8.9948			N/A
11/16/2018	CHFSEK	1:30:00 PM	8.9893	8.9909			N/A
11/16/2018	CHFSEK	3:30:00 PM	8.985	8.9868			N/A
11/16/2018	CHFSGD	9:30:00 AM	1.3665	1.367			N/A
11/16/2018	CHFSGD	11:30:00 AM	1.3671	1.3676			N/A
11/16/2018	CHFSGD	1:30:00 PM	1.3652	1.3656			N/A
11/16/2018	CHFSGD	3:30:00 PM	1.3648	1.3652			N/A
11/16/2018	CHFZAR	9:30:00 AM	14.1059	14.1152			N/A
11/16/2018	CHFZAR	11:30:00 AM	14.103	14.1155			N/A
11/16/2018	CHFZAR	1:30:00 PM	14.1122	14.1278			N/A
11/16/2018	CHFZAR	3:30:00 PM	14.0827	14.0967			N/A
11/16/2018	CZKJPY	9:30:00 AM					N/A
11/16/2018	CZKJPY	11:30:00 AM	4.946	4.95			N/A
11/16/2018	CZKJPY	1:30:00 PM					N/A

11/16/2018	CZKJPY	3:30:00 PM	4.934	4.935			N/A
11/16/2018	DKKJPY	9:30:00 AM					N/A
11/16/2018	DKKJPY	11:30:00 AM	17.23	17.25			N/A
11/16/2018	DKKJPY	1:30:00 PM	17.19	17.21			N/A
11/16/2018	DKKJPY	3:30:00 PM	17.18	17.19			N/A
11/16/2018	EURAUD	9:30:00 AM	1.55783	1.55801			N/A
11/16/2018	EURAUD	11:30:00 AM	1.56221	1.56264			N/A
11/16/2018	EURAUD	1:30:00 PM	1.56082	1.56123			N/A
11/16/2018	EURAUD	3:30:00 PM	1.55974	1.5598			N/A
11/16/2018	EURCAD	9:30:00 AM	1.49321	1.49373			N/A
11/16/2018	EURCAD	11:30:00 AM	1.49421	1.49486			N/A
11/16/2018	EURCAD	1:30:00 PM	1.49145	1.49222			N/A
11/16/2018	EURCAD	3:30:00 PM	1.49265	1.49308			N/A
11/16/2018	EURCHF	9:30:00 AM	1.1418	1.14167			N/A
11/16/2018	EURCHF	11:30:00 AM	1.14253	1.14252			N/A
11/16/2018	EURCHF	1:30:00 PM	1.14214	1.14204			N/A
11/16/2018	EURCHF	3:30:00 PM	1.14195	1.14229			N/A
11/16/2018	EURCZK	9:30:00 AM	25.989	26.023			N/A
11/16/2018	EURCZK	11:30:00 AM	25.981	26.02			N/A
11/16/2018	EURCZK	1:30:00 PM	25.978	26.014			N/A
11/16/2018	EURCZK	3:30:00 PM	25.966	25.996			N/A
11/16/2018	EURDKK	9:30:00 AM	7.4614	7.4622			N/A
11/16/2018	EURDKK	11:30:00 AM	7.4611	7.4618			N/A
11/16/2018	EURDKK	1:30:00 PM	7.461	7.4622			N/A
11/16/2018	EURDKK	3:30:00 PM	7.4611	7.4618			N/A
11/16/2018	EURGBP	9:30:00 AM	0.88632	0.88637			N/A
11/16/2018	EURGBP	11:30:00 AM	0.88746	0.88744			N/A
11/16/2018	EURGBP	1:30:00 PM	0.88473	0.88442			N/A
11/16/2018	EURGBP	3:30:00 PM	0.88372	0.88342			N/A
11/16/2018	EURHKD	9:30:00 AM	8.8866	8.8899			N/A
11/16/2018	EURHKD	11:30:00 AM	8.889	8.8927			N/A
11/16/2018	EURHKD	1:30:00 PM	8.8676	8.8717			N/A
11/16/2018	EURHKD	3:30:00 PM	8.8713	8.873			N/A
11/16/2018	EURHUF	9:30:00 AM	321.6	322.31			N/A
11/16/2018	EURHUF	11:30:00 AM	321.32	322.03			N/A
11/16/2018	EURHUF	1:30:00 PM	321.39	322.12			N/A
11/16/2018	EURHUF	3:30:00 PM	321.68	322.39			N/A
11/16/2018	EURJPY	9:30:00 AM	128.565	128.541			N/A
11/16/2018	EURJPY	11:30:00 AM	128.624	128.611			N/A
11/16/2018	EURJPY	1:30:00 PM	128.322	128.312			N/A
11/16/2018	EURJPY	3:30:00 PM	128.194	128.138			N/A
11/16/2018	EURMXN	9:30:00 AM	22.9351	22.9508			N/A
11/16/2018	EURMXN	11:30:00 AM	22.994	23.011			N/A
11/16/2018	EURMXN	1:30:00 PM	23.0158	23.0276			N/A
11/16/2018	EURMXN	3:30:00 PM	23.0696	23.0742			N/A
11/16/2018	EURNOK	9:30:00 AM	9.5994	9.6113			N/A
11/16/2018	EURNOK	11:30:00 AM	9.6168	9.6291			N/A
11/16/2018	EURNOK	1:30:00 PM	9.6107	9.6225			N/A
11/16/2018	EURNOK	3:30:00 PM	9.6034	9.6158			N/A
11/16/2018	EURNZD	9:30:00 AM	1.66192	1.66243			N/A

11/16/2018	EURNZD	11:30:00 AM	1.66736	1.66807			N/A
11/16/2018	EURNZD	1:30:00 PM	1.66426	1.66498			N/A
11/16/2018	EURNZD	3:30:00 PM	1.66277	1.66325			N/A
11/16/2018	EURPLN	9:30:00 AM	4.2882	4.2912			N/A
11/16/2018	EURPLN	11:30:00 AM	4.2933	4.2964			N/A
11/16/2018	EURPLN	1:30:00 PM	4.3054	4.3079			N/A
11/16/2018	EURPLN	3:30:00 PM	4.3155	4.3177			N/A
11/16/2018	EURRUR	9:30:00 AM					N/A
11/16/2018	EURRUR	11:30:00 AM	74.638	75.079			N/A
11/16/2018	EURRUR	1:30:00 PM	74.565	74.998			N/A
11/16/2018	EURRUR	3:30:00 PM	74.495	74.922			N/A
11/16/2018	EURSEK	9:30:00 AM	10.2578	10.2613			N/A
11/16/2018	EURSEK	11:30:00 AM	10.2725	10.2767			N/A
11/16/2018	EURSEK	1:30:00 PM	10.2661	10.2684			N/A
11/16/2018	EURSEK	3:30:00 PM	10.2622	10.2648			N/A
11/16/2018	EURSGD	9:30:00 AM	1.5601	1.5607			N/A
11/16/2018	EURSGD	11:30:00 AM	1.5619	1.5626			N/A
11/16/2018	EURSGD	1:30:00 PM	1.5591	1.5599			N/A
11/16/2018	EURSGD	3:30:00 PM	1.5588	1.5593			N/A
11/16/2018	EURUSD	9:30:00 AM	1.13483	1.13469			N/A
11/16/2018	EURUSD	11:30:00 AM	1.13499	1.13487			N/A
11/16/2018	EURUSD	1:30:00 PM	1.13239	1.13232			N/A
11/16/2018	EURUSD	3:30:00 PM	1.13278	1.13244			N/A
11/16/2018	EURZAR	9:30:00 AM	16.1065	16.1207			N/A
11/16/2018	EURZAR	11:30:00 AM	16.1153	16.1306			N/A
11/16/2018	EURZAR	1:30:00 PM	16.1184	16.1372			N/A
11/16/2018	EURZAR	3:30:00 PM	16.0899	16.1017			N/A
11/16/2018	GBPAUD	9:30:00 AM	1.75823	1.75869			N/A
11/16/2018	GBPAUD	11:30:00 AM	1.76099	1.7615			N/A
11/16/2018	GBPAUD	1:30:00 PM	1.76542	1.76539			N/A
11/16/2018	GBPAUD	3:30:00 PM	1.7661	1.7661			N/A
11/16/2018	GBPCAD	9:30:00 AM	1.68485	1.68512			N/A
11/16/2018	GBPCAD	11:30:00 AM	1.68387	1.68438			N/A
11/16/2018	GBPCAD	1:30:00 PM	1.68656	1.68656			N/A
11/16/2018	GBPCAD	3:30:00 PM	1.68973	1.68972			N/A
11/16/2018	GBPCHF	9:30:00 AM	1.28813	1.28815			N/A
11/16/2018	GBPCHF	11:30:00 AM	1.28737	1.2876			N/A
11/16/2018	GBPCHF	1:30:00 PM	1.29132	1.29108			N/A
11/16/2018	GBPCHF	3:30:00 PM	1.29265	1.29289			N/A
11/16/2018	GBPCZK	9:30:00 AM	29.324	29.342			N/A
11/16/2018	GBPCZK	11:30:00 AM	29.279	29.298			N/A
11/16/2018	GBPCZK	1:30:00 PM	29.377	29.386			N/A
11/16/2018	GBPCZK	3:30:00 PM	29.397	29.405			N/A
11/16/2018	GBPDKK	9:30:00 AM	8.415	8.426			N/A
11/16/2018	GBPDKK	11:30:00 AM	8.404	8.415			N/A
11/16/2018	GBPDKK	1:30:00 PM	8.433	8.441			N/A
11/16/2018	GBPDKK	3:30:00 PM	8.442	8.451			N/A
11/16/2018	GBPHKD	9:30:00 AM	10.0256	10.0283			N/A
11/16/2018	GBPHKD	11:30:00 AM	10.0153	10.0197			N/A
11/16/2018	GBPHKD	1:30:00 PM	10.0263	10.0269			N/A

11/16/2018	GBPHKD	3:30:00 PM	10.0404	10.041			N/A
11/16/2018	GBPHUF	9:30:00 AM	362.8	363.29			N/A
11/16/2018	GBPHUF	11:30:00 AM	362.09	362.55			N/A
11/16/2018	GBPHUF	1:30:00 PM	363.44	363.79			N/A
11/16/2018	GBPHUF	3:30:00 PM	364.17	364.46			N/A
11/16/2018	GBPJPY	9:30:00 AM	145.047	145.039			N/A
11/16/2018	GBPJPY	11:30:00 AM	144.932	144.948			N/A
11/16/2018	GBPJPY	1:30:00 PM	145.085	145.039			N/A
11/16/2018	GBPJPY	3:30:00 PM	145.095	145.037			N/A
11/16/2018	GBPMXN	9:30:00 AM	25.872	25.8813			N/A
11/16/2018	GBPMXN	11:30:00 AM	25.9049	25.9163			N/A
11/16/2018	GBPMXN	1:30:00 PM	26.0194	26.0234			N/A
11/16/2018	GBPMXN	3:30:00 PM	26.1081	26.1055			N/A
11/16/2018	GBPNOK	9:30:00 AM	10.8323	10.8424			N/A
11/16/2018	GBPNOK	11:30:00 AM	10.8379	10.8484			N/A
11/16/2018	GBPNOK	1:30:00 PM	10.8683	10.8747			N/A
11/16/2018	GBPNOK	3:30:00 PM	10.8727	10.8789			N/A
11/16/2018	GBPNZD	9:30:00 AM	1.87515	1.87561			N/A
11/16/2018	GBPNZD	11:30:00 AM	1.87897	1.87949			N/A
11/16/2018	GBPNZD	1:30:00 PM	1.88194	1.88181			N/A
11/16/2018	GBPNZD	3:30:00 PM	1.88218	1.88228			N/A
11/16/2018	GBPPLN	9:30:00 AM	4.8393	4.8408			N/A
11/16/2018	GBPPLN	11:30:00 AM	4.8389	4.8404			N/A
11/16/2018	GBPPLN	1:30:00 PM	4.8689	4.8685			N/A
11/16/2018	GBPPLN	3:30:00 PM	4.8859	4.8858			N/A
11/16/2018	GBPSEK	9:30:00 AM	11.5716	11.5786			N/A
11/16/2018	GBPSEK	11:30:00 AM	11.5734	11.5816			N/A
11/16/2018	GBPSEK	1:30:00 PM	11.6063	11.6105			N/A
11/16/2018	GBPSEK	3:30:00 PM	11.6145	11.6166			N/A
11/16/2018	GBPSGD	9:30:00 AM	1.7604	1.7607			N/A
11/16/2018	GBPSGD	11:30:00 AM	1.7601	1.7607			N/A
11/16/2018	GBPSGD	1:30:00 PM	1.763	1.7629			N/A
11/16/2018	GBPSGD	3:30:00 PM	1.7646	1.7646			N/A
11/16/2018	GBPUSD	9:30:00 AM	1.28062	1.28029			N/A
11/16/2018	GBPUSD	11:30:00 AM	1.27919	1.27903			N/A
11/16/2018	GBPUSD	1:30:00 PM	1.28066	1.28012			N/A
11/16/2018	GBPUSD	3:30:00 PM	1.28245	1.28182			N/A
11/16/2018	GBPZAR	9:30:00 AM	18.1691	18.1927			N/A
11/16/2018	GBPZAR	11:30:00 AM	18.1562	18.1811			N/A
11/16/2018	GBPZAR	1:30:00 PM	18.2224	18.2433			N/A
11/16/2018	GBPZAR	3:30:00 PM	18.2099	18.2251			N/A
11/16/2018	GOLD	9:30:00 AM	1215.63	1215.77			N/A
11/16/2018	GOLD	11:30:00 AM	1216.59	1216.73			N/A
11/16/2018	GOLD	1:30:00 PM	1215.7	1215.85			N/A
11/16/2018	GOLD	3:30:00 PM	1217.16	1217.22			N/A
11/16/2018	HKDJPY	9:30:00 AM					N/A
11/16/2018	HKDJPY	11:30:00 AM					N/A
11/16/2018	HKDJPY	1:30:00 PM					N/A
11/16/2018	HKDJPY	3:30:00 PM	14.45	14.47			N/A
11/16/2018	HUFJPY	9:30:00 AM	0.3995	0.3998			N/A

11/16/2018	HUFJPY	11:30:00 AM	0.4	0.4004			N/A
11/16/2018	HUFJPY	1:30:00 PM	0.399	0.3993			N/A
11/16/2018	HUFJPY	3:30:00 PM	0.3986	0.3989			N/A
11/16/2018	MXNJPY	9:30:00 AM					N/A
11/16/2018	MXNJPY	11:30:00 AM					N/A
11/16/2018	MXNJPY	1:30:00 PM	5.58	5.6			N/A
11/16/2018	MXNJPY	3:30:00 PM					N/A
11/16/2018	NOKJPY	9:30:00 AM	13.38	13.42			N/A
11/16/2018	NOKJPY	11:30:00 AM					N/A
11/16/2018	NOKJPY	1:30:00 PM	13.34	13.37			N/A
11/16/2018	NOKJPY	3:30:00 PM					N/A
11/16/2018	NZDCAD	9:30:00 AM	0.8983	0.89863			N/A
11/16/2018	NZDCAD	11:30:00 AM	0.89593	0.89647			N/A
11/16/2018	NZDCAD	1:30:00 PM	0.89587	0.89653			N/A
11/16/2018	NZDCAD	3:30:00 PM	0.89742	0.89799			N/A
11/16/2018	NZDCHF	9:30:00 AM	0.68664	0.68713			N/A
11/16/2018	NZDCHF	11:30:00 AM	0.68479	0.68544			N/A
11/16/2018	NZDCHF	1:30:00 PM	0.68576	0.68646			N/A
11/16/2018	NZDCHF	3:30:00 PM	0.6865	0.68713			N/A
11/16/2018	NZDCZK	9:30:00 AM	15.636	15.643			N/A
11/16/2018	NZDCZK	11:30:00 AM	15.579	15.59			N/A
11/16/2018	NZDCZK	1:30:00 PM	15.606	15.617			N/A
11/16/2018	NZDCZK	3:30:00 PM	15.615	15.622			N/A
11/16/2018	NZDDKK	9:30:00 AM	4.487	4.491			N/A
11/16/2018	NZDDKK	11:30:00 AM					N/A
11/16/2018	NZDDKK	1:30:00 PM					N/A
11/16/2018	NZDDKK	3:30:00 PM					N/A
11/16/2018	NZDHKD	9:30:00 AM	5.3451	5.3458			N/A
11/16/2018	NZDHKD	11:30:00 AM	5.3291	5.3312			N/A
11/16/2018	NZDHKD	1:30:00 PM	5.3259	5.3286			N/A
11/16/2018	NZDHKD	3:30:00 PM	5.3325	5.3346			N/A
11/16/2018	NZDHUF	9:30:00 AM	193.43	193.69			N/A
11/16/2018	NZDHUF	11:30:00 AM	192.63	192.93			N/A
11/16/2018	NZDHUF	1:30:00 PM					N/A
11/16/2018	NZDHUF	3:30:00 PM	193.42	193.65			N/A
11/16/2018	NZDJPY	9:30:00 AM	77.319	77.363			N/A
11/16/2018	NZDJPY	11:30:00 AM	77.097	77.156			N/A
11/16/2018	NZDJPY	1:30:00 PM	77.049	77.117			N/A
11/16/2018	NZDJPY	3:30:00 PM	77.052	77.095			N/A
11/16/2018	NZDMXN	9:30:00 AM	13.7943	13.7969			N/A
11/16/2018	NZDMXN	11:30:00 AM	13.7844	13.7886			N/A
11/16/2018	NZDMXN	1:30:00 PM	13.8228	13.8259			N/A
11/16/2018	NZDMXN	3:30:00 PM	13.8677	13.8663			N/A
11/16/2018	NZDNOK	9:30:00 AM	5.7745	5.7768			N/A
11/16/2018	NZDNOK	11:30:00 AM	5.7656	5.7694			N/A
11/16/2018	NZDNOK	1:30:00 PM	5.7726	5.7764			N/A
11/16/2018	NZDNOK	3:30:00 PM	5.7739	5.7772			N/A
11/16/2018	NZDPLN	9:30:00 AM	2.5791	2.5795			N/A
11/16/2018	NZDPLN	11:30:00 AM	2.5741	2.5754			N/A
11/16/2018	NZDPLN	1:30:00 PM	2.5854	2.5868			N/A

11/16/2018	NZDPLN	3:30:00 PM	2.5934	2.5947			N/A
11/16/2018	NZDSEK	9:30:00 AM	6.1669	6.1723			N/A
11/16/2018	NZDSEK	11:30:00 AM	6.1553	6.1613			N/A
11/16/2018	NZDSEK	1:30:00 PM	6.1625	6.1681			N/A
11/16/2018	NZDSEK	3:30:00 PM	6.1652	6.1715			N/A
11/16/2018	NZDSGD	9:30:00 AM	0.9385	0.939			N/A
11/16/2018	NZDSGD	11:30:00 AM	0.9366	0.9373			N/A
11/16/2018	NZDSGD	1:30:00 PM	0.9365	0.9371			N/A
11/16/2018	NZDSGD	3:30:00 PM	0.9374	0.938			N/A
11/16/2018	NZDUSD	9:30:00 AM	0.68278	0.6827			N/A
11/16/2018	NZDUSD	11:30:00 AM	0.68064	0.68061			N/A
11/16/2018	NZDUSD	1:30:00 PM	0.68026	0.68037	1000	1000	N/A
11/16/2018	NZDUSD	3:30:00 PM	0.68114	0.68115			N/A
11/16/2018	NZDZAR	9:30:00 AM	9.6824	9.6926			N/A
11/16/2018	NZDZAR	11:30:00 AM	9.6543	9.6713			N/A
11/16/2018	NZDZAR	1:30:00 PM	9.6755	9.6931			N/A
11/16/2018	NZDZAR	3:30:00 PM	9.666	9.6797			N/A
11/16/2018	SEKJPY	9:30:00 AM					N/A
11/16/2018	SEKJPY	11:30:00 AM					N/A
11/16/2018	SEKJPY	1:30:00 PM					N/A
11/16/2018	SEKJPY	3:30:00 PM					N/A
11/16/2018	SGDJPY	9:30:00 AM	82.36	82.39			N/A
11/16/2018	SGDJPY	11:30:00 AM	82.31	82.33			N/A
11/16/2018	SGDJPY	1:30:00 PM	82.25	82.28			N/A
11/16/2018	SGDJPY	3:30:00 PM	82.19	82.2			N/A
11/16/2018	SILVER	9:30:00 AM	14.12	14.5			N/A
11/16/2018	SILVER	11:30:00 AM	14.11	14.48			N/A
11/16/2018	SILVER	1:30:00 PM	14.08	14.45			N/A
11/16/2018	SILVER	3:30:00 PM	14.06	14.42			N/A
11/16/2018	USDCAD	9:30:00 AM	1.31589	1.31593			N/A
11/16/2018	USDCAD	11:30:00 AM	1.31662	1.31676			N/A
11/16/2018	USDCAD	1:30:00 PM	1.31729	1.31734			N/A
11/16/2018	USDCAD	3:30:00 PM	1.31786	1.31795			N/A
11/16/2018	USDCHF	9:30:00 AM	1.00599	1.00606			N/A
11/16/2018	USDCHF	11:30:00 AM	1.00652	1.00657			N/A
11/16/2018	USDCHF	1:30:00 PM	1.00842	1.00854			N/A
11/16/2018	USDCHF	3:30:00 PM	1.00794	1.00856			N/A
11/16/2018	USDCZK	9:30:00 AM	22.903	22.924			N/A
11/16/2018	USDCZK	11:30:00 AM	22.892	22.914			N/A
11/16/2018	USDCZK	1:30:00 PM	22.941	22.964			N/A
11/16/2018	USDCZK	3:30:00 PM	22.929	22.945			N/A
11/16/2018	USDDKK	9:30:00 AM	6.5759	6.58			N/A
11/16/2018	USDDKK	11:30:00 AM	6.5745	6.5788			N/A
11/16/2018	USDDKK	1:30:00 PM	6.5894	6.594			N/A
11/16/2018	USDDKK	3:30:00 PM	6.5887	6.5916			N/A
11/16/2018	USDHKD	9:30:00 AM	7.8316	7.8319			N/A
11/16/2018	USDHKD	11:30:00 AM	7.8325	7.8327			N/A
11/16/2018	USDHKD	1:30:00 PM					N/A
11/16/2018	USDHKD	3:30:00 PM	7.8321	7.8326			N/A
11/16/2018	USDHUF	9:30:00 AM	283.51	283.89			N/A

11/16/2018	USDHUF	11:30:00 AM	283.18	283.6			N/A
11/16/2018	USDHUF	1:30:00 PM	283.89	284.31			N/A
11/16/2018	USDHUF	3:30:00 PM	284.07	284.48			N/A
11/16/2018	USDJPY	9:30:00 AM	113.269	113.277			N/A
11/16/2018	USDJPY	11:30:00 AM	113.304	113.317			N/A
11/16/2018	USDJPY	1:30:00 PM	113.3	113.304			N/A
11/16/2018	USDJPY	3:30:00 PM	113.15	113.137			N/A
11/16/2018	USDMXN	9:30:00 AM	20.211	20.218			N/A
11/16/2018	USDMXN	11:30:00 AM	20.259	20.267			N/A
11/16/2018	USDMXN	1:30:00 PM	20.325	20.329			N/A
11/16/2018	USDMXN	3:30:00 PM	20.368	20.364			N/A
11/16/2018	USDNOK	9:30:00 AM	8.461	8.4689			N/A
11/16/2018	USDNOK	11:30:00 AM	8.475	8.4822			N/A
11/16/2018	USDNOK	1:30:00 PM	8.4876	8.4965			N/A
11/16/2018	USDNOK	3:30:00 PM	8.4808	8.4874			N/A
11/16/2018	USDPLN	9:30:00 AM	3.7794	3.7802			N/A
11/16/2018	USDPLN	11:30:00 AM	3.7833	3.7841			N/A
11/16/2018	USDPLN	1:30:00 PM	3.8019	3.8031			N/A
11/16/2018	USDPLN	3:30:00 PM	3.8103	3.8111			N/A
11/16/2018	USDRUR	9:30:00 AM					N/A
11/16/2018	USDRUR	11:30:00 AM	65.83	66.216			N/A
11/16/2018	USDRUR	1:30:00 PM	65.912	66.294			N/A
11/16/2018	USDRUR	3:30:00 PM	65.83	66.221			N/A
11/16/2018	USDSEK	9:30:00 AM	9.0375	9.0403			N/A
11/16/2018	USDSEK	11:30:00 AM	9.0481	9.0521			N/A
11/16/2018	USDSEK	1:30:00 PM	9.063	9.0654			N/A
11/16/2018	USDSEK	3:30:00 PM	9.0568	9.059			N/A
11/16/2018	USDSGD	9:30:00 AM	1.3747	1.3751			N/A
11/16/2018	USDSGD	11:30:00 AM	1.3761	1.3765			N/A
11/16/2018	USDSGD	1:30:00 PM	1.3767	1.3772			N/A
11/16/2018	USDSGD	3:30:00 PM	1.3761	1.3764			N/A
11/16/2018	USDZAR	9:30:00 AM	14.1939	14.2028			N/A
11/16/2018	USDZAR	11:30:00 AM	14.1968	14.2125			N/A
11/16/2018	USDZAR	1:30:00 PM	14.2317	14.2502			N/A
11/16/2018	USDZAR	3:30:00 PM	14.2028	14.2149			N/A
11/16/2018	XAUUSD	9:30:00 AM	1215.63	1215.96			N/A
11/16/2018	XAUUSD	11:30:00 AM	1216.59	1216.85			N/A
11/16/2018	XAUUSD	1:30:00 PM	1215.7	1215.96			N/A
11/16/2018	XAUUSD	3:30:00 PM	1217.17	1217.35			N/A
11/16/2018	ZARJPY	9:30:00 AM					N/A
11/16/2018	ZARJPY	11:30:00 AM					N/A
11/16/2018	ZARJPY	1:30:00 PM					N/A
11/16/2018	ZARJPY	3:30:00 PM	7.92	7.95			N/A
11/19/2018	#AA	9:30:00 AM					N/A
11/19/2018	#AA	11:30:00 AM					N/A
11/19/2018	#AA	1:30:00 PM					N/A
11/19/2018	#AA	3:30:00 PM					N/A
11/19/2018	#AABA	9:30:00 AM					N/A
11/19/2018	#AABA	11:30:00 AM					N/A
11/19/2018	#AABA	1:30:00 PM					N/A

11/19/2018	#AABA	3:30:00 PM					N/A
11/19/2018	#AAL	9:30:00 AM					N/A
11/19/2018	#AAL	11:30:00 AM					N/A
11/19/2018	#AAL	1:30:00 PM					N/A
11/19/2018	#AAL	3:30:00 PM					N/A
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11/19/2018	#AAPL	11:30:00 AM					N/A
11/19/2018	#AAPL	1:30:00 PM					N/A
11/19/2018	#AAPL	3:30:00 PM					N/A
11/19/2018	#ADBE	9:30:00 AM					N/A
11/19/2018	#ADBE	11:30:00 AM					N/A
11/19/2018	#ADBE	1:30:00 PM					N/A
11/19/2018	#ADBE	3:30:00 PM					N/A
11/19/2018	#AIG	9:30:00 AM					N/A
11/19/2018	#AIG	11:30:00 AM					N/A
11/19/2018	#AIG	1:30:00 PM					N/A
11/19/2018	#AIG	3:30:00 PM					N/A
11/19/2018	#AMD	9:30:00 AM					N/A
11/19/2018	#AMD	11:30:00 AM					N/A
11/19/2018	#AMD	1:30:00 PM					N/A
11/19/2018	#AMD	3:30:00 PM					N/A
11/19/2018	#AMZN	9:30:00 AM					N/A
11/19/2018	#AMZN	11:30:00 AM					N/A
11/19/2018	#AMZN	1:30:00 PM					N/A
11/19/2018	#AMZN	3:30:00 PM					N/A
11/19/2018	#AXP	9:30:00 AM					N/A
11/19/2018	#AXP	11:30:00 AM					N/A
11/19/2018	#AXP	1:30:00 PM					N/A
11/19/2018	#AXP	3:30:00 PM					N/A
11/19/2018	#BA	9:30:00 AM					N/A
11/19/2018	#BA	11:30:00 AM					N/A
11/19/2018	#BA	1:30:00 PM					N/A
11/19/2018	#BA	3:30:00 PM					N/A
11/19/2018	#BABA	9:30:00 AM					N/A
11/19/2018	#BABA	11:30:00 AM					N/A
11/19/2018	#BABA	1:30:00 PM					N/A
11/19/2018	#BABA	3:30:00 PM					N/A
11/19/2018	#BAC	9:30:00 AM					N/A
11/19/2018	#BAC	11:30:00 AM					N/A
11/19/2018	#BAC	1:30:00 PM					N/A
11/19/2018	#BAC	3:30:00 PM					N/A
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11/19/2018	#BARC	1:30:00 PM					N/A
11/19/2018	#BARC	3:30:00 PM					N/A
11/19/2018	#BHP	9:30:00 AM					N/A
11/19/2018	#BHP	11:30:00 AM					N/A
11/19/2018	#BHP	1:30:00 PM					N/A
11/19/2018	#BHP	3:30:00 PM					N/A
11/19/2018	#BIDU	9:30:00 AM					N/A

11/19/2018	#BIDU	11:30:00 AM					N/A
11/19/2018	#BIDU	1:30:00 PM					N/A
11/19/2018	#BIDU	3:30:00 PM					N/A
11/19/2018	#BK	9:30:00 AM					N/A
11/19/2018	#BK	11:30:00 AM					N/A
11/19/2018	#BK	1:30:00 PM					N/A
11/19/2018	#BK	3:30:00 PM					N/A
11/19/2018	#BLT	9:30:00 AM					N/A
11/19/2018	#BLT	11:30:00 AM					N/A
11/19/2018	#BLT	1:30:00 PM					N/A
11/19/2018	#BLT	3:30:00 PM					N/A
11/19/2018	#BP	9:30:00 AM					N/A
11/19/2018	#BP	11:30:00 AM					N/A
11/19/2018	#BP	1:30:00 PM					N/A
11/19/2018	#BP	3:30:00 PM					N/A
11/19/2018	#BTA	9:30:00 AM					N/A
11/19/2018	#BTA	11:30:00 AM					N/A
11/19/2018	#BTA	1:30:00 PM					N/A
11/19/2018	#BTA	3:30:00 PM					N/A
11/19/2018	#C	9:30:00 AM					N/A
11/19/2018	#C	11:30:00 AM					N/A
11/19/2018	#C	1:30:00 PM					N/A
11/19/2018	#C	3:30:00 PM					N/A
11/19/2018	#CAT	9:30:00 AM					N/A
11/19/2018	#CAT	11:30:00 AM					N/A
11/19/2018	#CAT	1:30:00 PM					N/A
11/19/2018	#CAT	3:30:00 PM					N/A
11/19/2018	#CHL	9:30:00 AM					N/A
11/19/2018	#CHL	11:30:00 AM					N/A
11/19/2018	#CHL	1:30:00 PM					N/A
11/19/2018	#CHL	3:30:00 PM					N/A
11/19/2018	#CMCSA	9:30:00 AM					N/A
11/19/2018	#CMCSA	11:30:00 AM					N/A
11/19/2018	#CMCSA	1:30:00 PM					N/A
11/19/2018	#CMCSA	3:30:00 PM					N/A
11/19/2018	#CSCO	9:30:00 AM					N/A
11/19/2018	#CSCO	11:30:00 AM					N/A
11/19/2018	#CSCO	1:30:00 PM					N/A
11/19/2018	#CSCO	3:30:00 PM					N/A
11/19/2018	#CVX	9:30:00 AM					N/A
11/19/2018	#CVX	11:30:00 AM					N/A
11/19/2018	#CVX	1:30:00 PM					N/A
11/19/2018	#CVX	3:30:00 PM					N/A
11/19/2018	#DD	9:30:00 AM					N/A
11/19/2018	#DD	11:30:00 AM					N/A
11/19/2018	#DD	1:30:00 PM					N/A
11/19/2018	#DD	3:30:00 PM					N/A
11/19/2018	#DIS	9:30:00 AM					N/A
11/19/2018	#DIS	11:30:00 AM					N/A
11/19/2018	#DIS	1:30:00 PM					N/A

11/19/2018	#DIS	3:30:00 PM					N/A
11/19/2018	#DWD	9:30:00 AM					N/A
11/19/2018	#DWD	11:30:00 AM					N/A
11/19/2018	#DWD	1:30:00 PM					N/A
11/19/2018	#DWD	3:30:00 PM					N/A
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11/19/2018	AUDDKK	9:30:00 AM	4.7833	4.7879			N/A
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11/19/2018	AUDHUF	3:30:00 PM	205.13	205.34			N/A
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11/19/2018	AUDNZD	9:30:00 AM	1.0677	1.06854			N/A
11/19/2018	AUDNZD	11:30:00 AM	1.06813	1.06898			N/A
11/19/2018	AUDNZD	1:30:00 PM	1.06823	1.06897			N/A
11/19/2018	AUDNZD	3:30:00 PM	1.06888	1.06943			N/A
11/19/2018	AUDPLN	9:30:00 AM	2.7645	2.7676			N/A

11/19/2018	AUDPLN	11:30:00 AM	2.7649	2.7676			N/A
11/19/2018	AUDPLN	1:30:00 PM	2.7628	2.7656			N/A
11/19/2018	AUDPLN	3:30:00 PM	2.7631	2.766			N/A
11/19/2018	AUDSEK	9:30:00 AM	6.5906	6.5929			N/A
11/19/2018	AUDSEK	11:30:00 AM	6.5833	6.5857			N/A
11/19/2018	AUDSEK	1:30:00 PM	6.5694	6.5727			N/A
11/19/2018	AUDSEK	3:30:00 PM	6.5649	6.5666			N/A
11/19/2018	AUDSGD	9:30:00 AM	1.004	1.0044			N/A
11/19/2018	AUDSGD	11:30:00 AM	1.003	1.0033			N/A
11/19/2018	AUDSGD	1:30:00 PM	1.0023	1.0026			N/A
11/19/2018	AUDSGD	3:30:00 PM	1.0017	1.002			N/A
11/19/2018	AUDUSD	9:30:00 AM	0.73157	0.73167			N/A
11/19/2018	AUDUSD	11:30:00 AM	0.73071	0.73079			N/A
11/19/2018	AUDUSD	1:30:00 PM	0.73058	0.73052			N/A
11/19/2018	AUDUSD	3:30:00 PM	0.73021	0.73002			N/A
11/19/2018	AUDZAR	9:30:00 AM	10.2482	10.2572			N/A
11/19/2018	AUDZAR	11:30:00 AM	10.2282	10.2387			N/A
11/19/2018	AUDZAR	1:30:00 PM	10.2053	10.22			N/A
11/19/2018	AUDZAR	3:30:00 PM	10.2142	10.2243			N/A
11/19/2018	CADCHF	9:30:00 AM	0.75904	0.75976			N/A
11/19/2018	CADCHF	11:30:00 AM	0.75824	0.7589			N/A
11/19/2018	CADCHF	1:30:00 PM	0.7566	0.7572			N/A
11/19/2018	CADCHF	3:30:00 PM	0.75651	0.7571			N/A
11/19/2018	CADCZK	9:30:00 AM	17.294	17.312			N/A
11/19/2018	CADCZK	11:30:00 AM	17.29	17.294			N/A
11/19/2018	CADCZK	1:30:00 PM	17.276	17.293			N/A
11/19/2018	CADCZK	3:30:00 PM	17.275	17.29			N/A
11/19/2018	CADDDKK	9:30:00 AM					N/A
11/19/2018	CADDDKK	11:30:00 AM					N/A
11/19/2018	CADDDKK	1:30:00 PM					N/A
11/19/2018	CADDDKK	3:30:00 PM	4.957	4.961			N/A
11/19/2018	CADHKD	9:30:00 AM	5.9473	5.9512			N/A
11/19/2018	CADHKD	11:30:00 AM	5.9461	5.9499			N/A
11/19/2018	CADHKD	1:30:00 PM	5.9489	5.9528			N/A
11/19/2018	CADHKD	3:30:00 PM	5.9491	5.9526			N/A
11/19/2018	CADHUF	9:30:00 AM	214.07	214.25			N/A
11/19/2018	CADHUF	11:30:00 AM	213.82	213.98			N/A
11/19/2018	CADHUF	1:30:00 PM	213.74	213.77			N/A
11/19/2018	CADHUF	3:30:00 PM	213.54	213.68			N/A
11/19/2018	CADJPY	9:30:00 AM	85.602	85.652			N/A
11/19/2018	CADJPY	11:30:00 AM	85.62	85.68			N/A
11/19/2018	CADJPY	1:30:00 PM	85.629	85.7			N/A
11/19/2018	CADJPY	3:30:00 PM	85.655	85.713			N/A
11/19/2018	CADMXN	9:30:00 AM	15.3201	15.3296			N/A
11/19/2018	CADMXN	11:30:00 AM	15.3174	15.3275			N/A
11/19/2018	CADMXN	1:30:00 PM	15.3303	15.3366			N/A
11/19/2018	CADMXN	3:30:00 PM	15.396	15.4007			N/A
11/19/2018	CADNOK	9:30:00 AM	6.4104	6.4147			N/A
11/19/2018	CADNOK	11:30:00 AM	6.4075	6.4118			N/A
11/19/2018	CADNOK	1:30:00 PM	6.4139	6.4187			N/A

11/19/2018	CADNOK	3:30:00 PM	6.4129	6.4156			N/A
11/19/2018	CADPLN	9:30:00 AM	2.8703	2.8722			N/A
11/19/2018	CADPLN	11:30:00 AM	2.8735	2.8754			N/A
11/19/2018	CADPLN	1:30:00 PM	2.8742	2.8761			N/A
11/19/2018	CADPLN	3:30:00 PM	2.8756	2.8775			N/A
11/19/2018	CADSEK	9:30:00 AM	6.8416	6.8442			N/A
11/19/2018	CADSEK	11:30:00 AM	6.8408	6.8448			N/A
11/19/2018	CADSEK	1:30:00 PM	6.8324	6.8363			N/A
11/19/2018	CADSEK	3:30:00 PM	6.8315	6.834			N/A
11/19/2018	CADSGD	9:30:00 AM	1.0427	1.043			N/A
11/19/2018	CADSGD	11:30:00 AM	1.0425	1.0428			N/A
11/19/2018	CADSGD	1:30:00 PM	1.0426	1.0429			N/A
11/19/2018	CADSGD	3:30:00 PM	1.0423	1.0427			N/A
11/19/2018	CADZAR	9:30:00 AM	10.633	10.6478			N/A
11/19/2018	CADZAR	11:30:00 AM	10.6252	10.641			N/A
11/19/2018	CADZAR	1:30:00 PM	10.6096	10.6275			N/A
11/19/2018	CADZAR	3:30:00 PM	10.6253	10.6416			N/A
11/19/2018	CHFCZK	9:30:00 AM	22.778	22.795			N/A
11/19/2018	CHFCZK	11:30:00 AM	22.797	22.792			N/A
11/19/2018	CHFCZK	1:30:00 PM	22.829	22.844			N/A
11/19/2018	CHFCZK	3:30:00 PM	22.832	22.843			N/A
11/19/2018	CHFDKK	9:30:00 AM					N/A
11/19/2018	CHFDKK	11:30:00 AM	6.541	6.545			N/A
11/19/2018	CHFDKK	1:30:00 PM	6.556	6.56			N/A
11/19/2018	CHFDKK	3:30:00 PM	6.55	6.554			N/A
11/19/2018	CHFHKD	9:30:00 AM	7.8334	7.8368			N/A
11/19/2018	CHFHKD	11:30:00 AM	7.8394	7.8423			N/A
11/19/2018	CHFHKD	1:30:00 PM	7.861	7.863			N/A
11/19/2018	CHFHKD	3:30:00 PM	7.8613	7.8653			N/A
11/19/2018	CHFHUF	9:30:00 AM	281.81	282.21			N/A
11/19/2018	CHFHUF	11:30:00 AM	281.79	282.12			N/A
11/19/2018	CHFHUF	1:30:00 PM	282.31	282.53			N/A
11/19/2018	CHFHUF	3:30:00 PM	282.13	282.45			N/A
11/19/2018	CHFJPY	9:30:00 AM	112.731	112.775			N/A
11/19/2018	CHFJPY	11:30:00 AM	112.889	112.942			N/A
11/19/2018	CHFJPY	1:30:00 PM	113.156	113.205			N/A
11/19/2018	CHFJPY	3:30:00 PM	113.192	113.254			N/A
11/19/2018	CHFMXN	9:30:00 AM	20.1724	20.1895			N/A
11/19/2018	CHFMXN	11:30:00 AM	20.1906	20.2074			N/A
11/19/2018	CHFMXN	1:30:00 PM	20.2545	20.2596			N/A
11/19/2018	CHFMXN	3:30:00 PM	20.3435	20.3503			N/A
11/19/2018	CHFNOK	9:30:00 AM	8.441	8.4493			N/A
11/19/2018	CHFNOK	11:30:00 AM	8.4474	8.4538			N/A
11/19/2018	CHFNOK	1:30:00 PM	8.4727	8.4801			N/A
11/19/2018	CHFNOK	3:30:00 PM	8.4739	8.4778			N/A
11/19/2018	CHFPLN	9:30:00 AM	3.7796	3.7827			N/A
11/19/2018	CHFPLN	11:30:00 AM	3.7882	3.7908			N/A
11/19/2018	CHFPLN	1:30:00 PM	3.7972	3.7993			N/A
11/19/2018	CHFPLN	3:30:00 PM	3.8002	3.8023			N/A
11/19/2018	CHFSEK	9:30:00 AM	9.011	9.015			N/A

11/19/2018	CHFSEK	11:30:00 AM	9.02	9.0233			N/A
11/19/2018	CHFSEK	1:30:00 PM	9.0288	9.0317			N/A
11/19/2018	CHFSEK	3:30:00 PM	9.0293	9.0324			N/A
11/19/2018	CHFSGD	9:30:00 AM	1.3728	1.3732			N/A
11/19/2018	CHFSGD	11:30:00 AM	1.3741	1.3745			N/A
11/19/2018	CHFSGD	1:30:00 PM	1.3774	1.3777			N/A
11/19/2018	CHFSGD	3:30:00 PM	1.3775	1.3778			N/A
11/19/2018	CHFZAR	9:30:00 AM	14.0059	14.0178			N/A
11/19/2018	CHFZAR	11:30:00 AM	14.0109	14.0227			N/A
11/19/2018	CHFZAR	1:30:00 PM	14.0218	14.0344			N/A
11/19/2018	CHFZAR	3:30:00 PM	14.0449	14.0587			N/A
11/19/2018	CZKJPY	9:30:00 AM	4.948	4.952			N/A
11/19/2018	CZKJPY	11:30:00 AM	4.953	4.954			N/A
11/19/2018	CZKJPY	1:30:00 PM	4.956	4.959			N/A
11/19/2018	CZKJPY	3:30:00 PM	4.957	4.961			N/A
11/19/2018	DKKJPY	9:30:00 AM	17.24	17.26			N/A
11/19/2018	DKKJPY	11:30:00 AM					N/A
11/19/2018	DKKJPY	1:30:00 PM					N/A
11/19/2018	DKKJPY	3:30:00 PM					N/A
11/19/2018	EURAUD	9:30:00 AM	1.55841	1.55881			N/A
11/19/2018	EURAUD	11:30:00 AM	1.56201	1.56204			N/A
11/19/2018	EURAUD	1:30:00 PM	1.563	1.56344			N/A
11/19/2018	EURAUD	3:30:00 PM	1.56553	1.56575			N/A
11/19/2018	EURCAD	9:30:00 AM	1.5015	1.50235			N/A
11/19/2018	EURCAD	11:30:00 AM	1.50329	1.50403			N/A
11/19/2018	EURCAD	1:30:00 PM	1.50317	1.50395			N/A
11/19/2018	EURCAD	3:30:00 PM	1.50487	1.50555			N/A
11/19/2018	EURCHF	9:30:00 AM	1.14051	1.14062			N/A
11/19/2018	EURCHF	11:30:00 AM	1.14069	1.14058			N/A
11/19/2018	EURCHF	1:30:00 PM	1.13812	1.13808			N/A
11/19/2018	EURCHF	3:30:00 PM	1.13887	1.13931			N/A
11/19/2018	EURCZK	9:30:00 AM	25.967	26.007			N/A
11/19/2018	EURCZK	11:30:00 AM	25.995	26.008			N/A
11/19/2018	EURCZK	1:30:00 PM					N/A
11/19/2018	EURCZK	3:30:00 PM	25.994	26.031			N/A
11/19/2018	EURDKK	9:30:00 AM	7.4611	7.4622			N/A
11/19/2018	EURDKK	11:30:00 AM	7.4614	7.4625			N/A
11/19/2018	EURDKK	1:30:00 PM	7.4617	7.4629			N/A
11/19/2018	EURDKK	3:30:00 PM	7.462	7.4632			N/A
11/19/2018	EURGBP	9:30:00 AM	0.8886	0.88869			N/A
11/19/2018	EURGBP	11:30:00 AM	0.88855	0.8884			N/A
11/19/2018	EURGBP	1:30:00 PM	0.88798	0.88802			N/A
11/19/2018	EURGBP	3:30:00 PM	0.88974	0.88945			N/A
11/19/2018	EURHKD	9:30:00 AM	8.932	8.937			N/A
11/19/2018	EURHKD	11:30:00 AM	8.941	8.9454			N/A
11/19/2018	EURHKD	1:30:00 PM	8.9448	8.9492			N/A
11/19/2018	EURHKD	3:30:00 PM	8.9539	8.9569			N/A
11/19/2018	EURHUF	9:30:00 AM	321.24	321.96			N/A
11/19/2018	EURHUF	11:30:00 AM	321.28	322.02			N/A
11/19/2018	EURHUF	1:30:00 PM	321.17	321.91			N/A

11/19/2018	EURHUF	3:30:00 PM	321.21	321.93			N/A
11/19/2018	EURJPY	9:30:00 AM	128.615	128.587			N/A
11/19/2018	EURJPY	11:30:00 AM	128.797	128.778			N/A
11/19/2018	EURJPY	1:30:00 PM	128.808	128.802			N/A
11/19/2018	EURJPY	3:30:00 PM	128.975	128.955			N/A
11/19/2018	EURMXN	9:30:00 AM	23.0094	23.0271			N/A
11/19/2018	EURMXN	11:30:00 AM	23.033	23.0472			N/A
11/19/2018	EURMXN	1:30:00 PM	23.0507	23.0604			N/A
11/19/2018	EURMXN	3:30:00 PM	23.1722	23.1848			N/A
11/19/2018	EURNOK	9:30:00 AM	9.6262	9.6382			N/A
11/19/2018	EURNOK	11:30:00 AM	9.6328	9.6454			N/A
11/19/2018	EURNOK	1:30:00 PM	9.6405	9.6534			N/A
11/19/2018	EURNOK	3:30:00 PM	9.65	9.6596			N/A
11/19/2018	EURNZD	9:30:00 AM	1.665	1.66573			N/A
11/19/2018	EURNZD	11:30:00 AM	1.66937	1.66994			N/A
11/19/2018	EURNZD	1:30:00 PM	1.67083	1.67168			N/A
11/19/2018	EURNZD	3:30:00 PM	1.6745	1.67499			N/A
11/19/2018	EURPLN	9:30:00 AM	4.3116	4.3142			N/A
11/19/2018	EURPLN	11:30:00 AM	4.3208	4.3242			N/A
11/19/2018	EURPLN	1:30:00 PM	4.3215	4.324			N/A
11/19/2018	EURPLN	3:30:00 PM	4.3285	4.3316			N/A
11/19/2018	EURRUR	9:30:00 AM					N/A
11/19/2018	EURRUR	11:30:00 AM	74.872	75.291			N/A
11/19/2018	EURRUR	1:30:00 PM	74.959	75.39			N/A
11/19/2018	EURRUR	3:30:00 PM	75.06	75.498			N/A
11/19/2018	EURSEK	9:30:00 AM	10.2767	10.2816			N/A
11/19/2018	EURSEK	11:30:00 AM	10.2874	10.2919			N/A
11/19/2018	EURSEK	1:30:00 PM	10.2734	10.2781			N/A
11/19/2018	EURSEK	3:30:00 PM	10.2842	10.2868			N/A
11/19/2018	EURSGD	9:30:00 AM	1.5655	1.5664			N/A
11/19/2018	EURSGD	11:30:00 AM	1.5672	1.5679			N/A
11/19/2018	EURSGD	1:30:00 PM	1.5673	1.5681			N/A
11/19/2018	EURSGD	3:30:00 PM	1.5689	1.5694			N/A
11/19/2018	EURUSD	9:30:00 AM	1.14053	1.1406			N/A
11/19/2018	EURUSD	11:30:00 AM	1.14168	1.14167			N/A
11/19/2018	EURUSD	1:30:00 PM	1.1422	1.1422			N/A
11/19/2018	EURUSD	3:30:00 PM	1.14343	1.14325			N/A
11/19/2018	EURZAR	9:30:00 AM	15.9788	15.9902			N/A
11/19/2018	EURZAR	11:30:00 AM	15.9835	16.0011			N/A
11/19/2018	EURZAR	1:30:00 PM	15.9578	15.9772			N/A
11/19/2018	EURZAR	3:30:00 PM	15.9994	16.0163			N/A
11/19/2018	GBPAUD	9:30:00 AM	1.75432	1.75496			N/A
11/19/2018	GBPAUD	11:30:00 AM	1.75875	1.75891			N/A
11/19/2018	GBPAUD	1:30:00 PM	1.76077	1.7614			N/A
11/19/2018	GBPAUD	3:30:00 PM	1.76068	1.76064			N/A
11/19/2018	GBPCAD	9:30:00 AM	1.68982	1.69047			N/A
11/19/2018	GBPCAD	11:30:00 AM	1.69237	1.69265			N/A
11/19/2018	GBPCAD	1:30:00 PM	1.69284	1.69365			N/A
11/19/2018	GBPCAD	3:30:00 PM	1.69207	1.69214			N/A
11/19/2018	GBPCHF	9:30:00 AM	1.28326	1.2837			N/A

11/19/2018	GBPCHF	11:30:00 AM	1.284	1.28385			N/A
11/19/2018	GBPCHF	1:30:00 PM	1.28156	1.28171			N/A
11/19/2018	GBPCHF	3:30:00 PM	1.28028	1.28061			N/A
11/19/2018	GBPCZK	9:30:00 AM	29.227	29.251			N/A
11/19/2018	GBPCZK	11:30:00 AM	29.261	29.255			N/A
11/19/2018	GBPCZK	1:30:00 PM	29.25	29.271			N/A
11/19/2018	GBPCZK	3:30:00 PM	29.23	29.241			N/A
11/19/2018	GBPDKK	9:30:00 AM	8.393	8.404			N/A
11/19/2018	GBPDKK	11:30:00 AM	8.396	8.405			N/A
11/19/2018	GBPDKK	1:30:00 PM	8.399	8.411			N/A
11/19/2018	GBPDKK	3:30:00 PM	8.386	8.395			N/A
11/19/2018	GBPHKD	9:30:00 AM	10.0504	10.0559			N/A
11/19/2018	GBPHKD	11:30:00 AM	10.0634	10.0665			N/A
11/19/2018	GBPHKD	1:30:00 PM	10.0721	10.0771			N/A
11/19/2018	GBPHKD	3:30:00 PM	10.0655	10.0672			N/A
11/19/2018	GBPHUF	9:30:00 AM	361.63	362.11			N/A
11/19/2018	GBPHUF	11:30:00 AM	361.73	362.15			N/A
11/19/2018	GBPHUF	1:30:00 PM	361.74	361.92			N/A
11/19/2018	GBPHUF	3:30:00 PM	361.14	361.53			N/A
11/19/2018	GBPJPY	9:30:00 AM	144.717	144.718			N/A
11/19/2018	GBPJPY	11:30:00 AM	144.97	144.965			N/A
11/19/2018	GBPJPY	1:30:00 PM	145.037	145.071			N/A
11/19/2018	GBPJPY	3:30:00 PM	144.992	144.967			N/A
11/19/2018	GBPMXN	9:30:00 AM	25.8883	25.9026			N/A
11/19/2018	GBPMXN	11:30:00 AM	25.9239	25.9306			N/A
11/19/2018	GBPMXN	1:30:00 PM	25.9516	25.9594			N/A
11/19/2018	GBPMXN	3:30:00 PM	26.0477	26.0448			N/A
11/19/2018	GBPNOK	9:30:00 AM	10.8341	10.8447			N/A
11/19/2018	GBPNOK	11:30:00 AM	10.8448	10.8536			N/A
11/19/2018	GBPNOK	1:30:00 PM	10.858	10.8693			N/A
11/19/2018	GBPNOK	3:30:00 PM	10.8501	10.8554			N/A
11/19/2018	GBPNZD	9:30:00 AM	1.87381	1.87437			N/A
11/19/2018	GBPNZD	11:30:00 AM	1.87931	1.87942			N/A
11/19/2018	GBPNZD	1:30:00 PM	1.88174	1.88236			N/A
11/19/2018	GBPNZD	3:30:00 PM	1.8828	1.88271	10	10	N/A
11/19/2018	GBPPLN	9:30:00 AM	4.8523	4.8539			N/A
11/19/2018	GBPPLN	11:30:00 AM	4.8647	4.8655			N/A
11/19/2018	GBPPLN	1:30:00 PM	4.8673	4.8688			N/A
11/19/2018	GBPPLN	3:30:00 PM	4.8671	4.8674			N/A
11/19/2018	GBPSEK	9:30:00 AM	11.5625	11.5722			N/A
11/19/2018	GBPSEK	11:30:00 AM	11.5789	11.5839			N/A
11/19/2018	GBPSEK	1:30:00 PM	11.5681	11.5759			N/A
11/19/2018	GBPSEK	3:30:00 PM	11.5592	11.5638			N/A
11/19/2018	GBPSGD	9:30:00 AM	1.7619	1.7625			N/A
11/19/2018	GBPSGD	11:30:00 AM	1.7641	1.7646			N/A
11/19/2018	GBPSGD	1:30:00 PM	1.7651	1.7657			N/A
11/19/2018	GBPSGD	3:30:00 PM	1.764	1.7641			N/A
11/19/2018	GBPUSD	9:30:00 AM	1.28371	1.28362			N/A
11/19/2018	GBPUSD	11:30:00 AM	1.28542	1.28506			N/A
11/19/2018	GBPUSD	1:30:00 PM	1.28646	1.28649			N/A

11/19/2018	GBPUSD	3:30:00 PM	1.28581	1.28517			N/A
11/19/2018	GBPZAR	9:30:00 AM	17.9788	17.9978			N/A
11/19/2018	GBPZAR	11:30:00 AM	17.988	18.0143			N/A
11/19/2018	GBPZAR	1:30:00 PM	17.9671	17.9969			N/A
11/19/2018	GBPZAR	3:30:00 PM	17.9832	18.0061			N/A
11/19/2018	GOLD	9:30:00 AM	1219.63	1219.78			N/A
11/19/2018	GOLD	11:30:00 AM	1219.31	1219.47			N/A
11/19/2018	GOLD	1:30:00 PM	1222.07	1222.25			N/A
11/19/2018	GOLD	3:30:00 PM	1221.71	1221.67			N/A
11/19/2018	HKDJPY	9:30:00 AM	14.4	14.42			N/A
11/19/2018	HKDJPY	11:30:00 AM					N/A
11/19/2018	HKDJPY	1:30:00 PM					N/A
11/19/2018	HKDJPY	3:30:00 PM					N/A
11/19/2018	HUFJPY	9:30:00 AM	0.4	0.4003			N/A
11/19/2018	HUFJPY	11:30:00 AM	0.4007	0.401			N/A
11/19/2018	HUFJPY	1:30:00 PM	0.401	0.4013			N/A
11/19/2018	HUFJPY	3:30:00 PM	0.4011	0.4014			N/A
11/19/2018	MXNJPY	9:30:00 AM					N/A
11/19/2018	MXNJPY	11:30:00 AM					N/A
11/19/2018	MXNJPY	1:30:00 PM					N/A
11/19/2018	MXNJPY	3:30:00 PM	5.56	5.58			N/A
11/19/2018	NOKJPY	9:30:00 AM					N/A
11/19/2018	NOKJPY	11:30:00 AM					N/A
11/19/2018	NOKJPY	1:30:00 PM					N/A
11/19/2018	NOKJPY	3:30:00 PM	13.34	13.38			N/A
11/19/2018	NZDCAD	9:30:00 AM	0.90152	0.90214			N/A
11/19/2018	NZDCAD	11:30:00 AM	0.90023	0.90092			N/A
11/19/2018	NZDCAD	1:30:00 PM	0.89932	0.90002			N/A
11/19/2018	NZDCAD	3:30:00 PM	0.89845	0.89904			N/A
11/19/2018	NZDCHF	9:30:00 AM	0.68452	0.6852			N/A
11/19/2018	NZDCHF	11:30:00 AM	0.6828	0.68348			N/A
11/19/2018	NZDCHF	1:30:00 PM	0.68061	0.68128			N/A
11/19/2018	NZDCHF	3:30:00 PM	0.67979	0.68045			N/A
11/19/2018	NZDCZK	9:30:00 AM	15.595	15.606			N/A
11/19/2018	NZDCZK	11:30:00 AM	15.569	15.567			N/A
11/19/2018	NZDCZK	1:30:00 PM					N/A
11/19/2018	NZDCZK	3:30:00 PM	15.524	15.533			N/A
11/19/2018	NZDDKK	9:30:00 AM					N/A
11/19/2018	NZDDKK	11:30:00 AM	4.467	4.471			N/A
11/19/2018	NZDDKK	1:30:00 PM	4.463	4.466			N/A
11/19/2018	NZDDKK	3:30:00 PM					N/A
11/19/2018	NZDHKD	9:30:00 AM	5.3625	5.3654			N/A
11/19/2018	NZDHKD	11:30:00 AM	5.3531	5.3559			N/A
11/19/2018	NZDHKD	1:30:00 PM	5.3502	5.353			N/A
11/19/2018	NZDHKD	3:30:00 PM	5.3444	5.3472			N/A
11/19/2018	NZDHUF	9:30:00 AM					N/A
11/19/2018	NZDHUF	11:30:00 AM	192.44	192.71			N/A
11/19/2018	NZDHUF	1:30:00 PM	192.14	192.34			N/A
11/19/2018	NZDHUF	3:30:00 PM	191.8	192.04			N/A
11/19/2018	NZDJPY	9:30:00 AM	77.189	77.251			N/A

11/19/2018	NZDJPY	11:30:00 AM	77.104	77.169			N/A
11/19/2018	NZDJPY	1:30:00 PM	77.037	77.105			N/A
11/19/2018	NZDJPY	3:30:00 PM	76.968	77.035			N/A
11/19/2018	NZDMXN	9:30:00 AM	13.8123	13.818			N/A
11/19/2018	NZDMXN	11:30:00 AM	13.7908	13.7971			N/A
11/19/2018	NZDMXN	1:30:00 PM	13.7882	13.7898			N/A
11/19/2018	NZDMXN	3:30:00 PM	13.8337	13.8338			N/A
11/19/2018	NZDNOK	9:30:00 AM	5.7793	5.7832			N/A
11/19/2018	NZDNOK	11:30:00 AM	5.7686	5.772			N/A
11/19/2018	NZDNOK	1:30:00 PM	5.7679	5.7717			N/A
11/19/2018	NZDNOK	3:30:00 PM	5.762	5.7629			N/A
11/19/2018	NZDPLN	9:30:00 AM	2.5881	2.5894			N/A
11/19/2018	NZDPLN	11:30:00 AM	2.587	2.5884			N/A
11/19/2018	NZDPLN	1:30:00 PM	2.5846	2.5858			N/A
11/19/2018	NZDPLN	3:30:00 PM	2.5833	2.5847			N/A
11/19/2018	NZDSEK	9:30:00 AM	6.1657	6.1726			N/A
11/19/2018	NZDSEK	11:30:00 AM	6.1567	6.1634			N/A
11/19/2018	NZDSEK	1:30:00 PM	6.1426	6.1489			N/A
11/19/2018	NZDSEK	3:30:00 PM	6.1355	6.1414			N/A
11/19/2018	NZDSGD	9:30:00 AM	0.9402	0.9409			N/A
11/19/2018	NZDSGD	11:30:00 AM	0.9387	0.9393			N/A
11/19/2018	NZDSGD	1:30:00 PM	0.9379	0.9386			N/A
11/19/2018	NZDSGD	3:30:00 PM	0.9368	0.9375			N/A
11/19/2018	NZDUSD	9:30:00 AM	0.68489	0.68493			N/A
11/19/2018	NZDUSD	11:30:00 AM	0.68376	0.68385			N/A
11/19/2018	NZDUSD	1:30:00 PM	0.68344	0.68349			N/A
11/19/2018	NZDUSD	3:30:00 PM	0.68267	0.68263			N/A
11/19/2018	NZDZAR	9:30:00 AM	9.5854	9.5992			N/A
11/19/2018	NZDZAR	11:30:00 AM	9.5641	9.58			N/A
11/19/2018	NZDZAR	1:30:00 PM	9.54	9.5579			N/A
11/19/2018	NZDZAR	3:30:00 PM	9.5446	9.5612			N/A
11/19/2018	SEKJPY	9:30:00 AM					N/A
11/19/2018	SEKJPY	11:30:00 AM					N/A
11/19/2018	SEKJPY	1:30:00 PM	12.54	12.55			N/A
11/19/2018	SEKJPY	3:30:00 PM					N/A
11/19/2018	SGDJPY	9:30:00 AM	82.1	82.11			N/A
11/19/2018	SGDJPY	11:30:00 AM	82.14	82.16			N/A
11/19/2018	SGDJPY	1:30:00 PM	82.14	82.16			N/A
11/19/2018	SGDJPY	3:30:00 PM	82.16	82.19			N/A
11/19/2018	SILVER	9:30:00 AM	14.18	14.55			N/A
11/19/2018	SILVER	11:30:00 AM	14.18	14.57			N/A
11/19/2018	SILVER	1:30:00 PM	14.22	14.58			N/A
11/19/2018	SILVER	3:30:00 PM	14.2	14.57			N/A
11/19/2018	USDCAD	9:30:00 AM	1.31663	1.31672			N/A
11/19/2018	USDCAD	11:30:00 AM	1.3169	1.31695			N/A
11/19/2018	USDCAD	1:30:00 PM	1.31618	1.31627			N/A
11/19/2018	USDCAD	3:30:00 PM	1.31634	1.3162			N/A
11/19/2018	USDCHF	9:30:00 AM	0.99982	0.99988			N/A
11/19/2018	USDCHF	11:30:00 AM	0.99894	0.99895			N/A
11/19/2018	USDCHF	1:30:00 PM	0.99626	0.99618			N/A

11/19/2018	USDCHF	3:30:00 PM	0.99578	0.99641			N/A
11/19/2018	USDCZK	9:30:00 AM	22.768	22.792			N/A
11/19/2018	USDCZK	11:30:00 AM	22.769	22.772			N/A
11/19/2018	USDCZK	1:30:00 PM	22.737	22.761			N/A
11/19/2018	USDCZK	3:30:00 PM	22.738	22.754			N/A
11/19/2018	USDDKK	9:30:00 AM	6.5417	6.5469			N/A
11/19/2018	USDDKK	11:30:00 AM	6.536	6.5407			N/A
11/19/2018	USDDKK	1:30:00 PM	6.5331	6.538			N/A
11/19/2018	USDDKK	3:30:00 PM	6.5272	6.531			N/A
11/19/2018	USDHKD	9:30:00 AM	7.8321	7.8325			N/A
11/19/2018	USDHKD	11:30:00 AM					N/A
11/19/2018	USDHKD	1:30:00 PM					N/A
11/19/2018	USDHKD	3:30:00 PM					N/A
11/19/2018	USDHUF	9:30:00 AM	281.76	282.23			N/A
11/19/2018	USDHUF	11:30:00 AM	281.47	281.92			N/A
11/19/2018	USDHUF	1:30:00 PM	281.24	281.7			N/A
11/19/2018	USDHUF	3:30:00 PM	281.02	281.4			N/A
11/19/2018	USDJPY	9:30:00 AM	112.751	112.73			N/A
11/19/2018	USDJPY	11:30:00 AM	112.794	112.793			N/A
11/19/2018	USDJPY	1:30:00 PM	112.76	112.758			N/A
11/19/2018	USDJPY	3:30:00 PM	112.794	112.787			N/A
11/19/2018	USDMXN	9:30:00 AM	20.175	20.183			N/A
11/19/2018	USDMXN	11:30:00 AM	20.175	20.181			N/A
11/19/2018	USDMXN	1:30:00 PM	20.181	20.183			N/A
11/19/2018	USDMXN	3:30:00 PM	20.27	20.268			N/A
11/19/2018	USDNOK	9:30:00 AM	8.4409	8.4493			N/A
11/19/2018	USDNOK	11:30:00 AM	8.4389	8.4471			N/A
11/19/2018	USDNOK	1:30:00 PM	8.4416	8.4502			N/A
11/19/2018	USDNOK	3:30:00 PM	8.4418	8.4463			N/A
11/19/2018	USDPLN	9:30:00 AM	3.7801	3.7813			N/A
11/19/2018	USDPLN	11:30:00 AM	3.7849	3.7861			N/A
11/19/2018	USDPLN	1:30:00 PM	3.7836	3.7847			N/A
11/19/2018	USDPLN	3:30:00 PM	3.7863	3.7868			N/A
11/19/2018	USDRUR	9:30:00 AM					N/A
11/19/2018	USDRUR	11:30:00 AM	65.65	66.012			N/A
11/19/2018	USDRUR	1:30:00 PM	65.687	66.077			N/A
11/19/2018	USDRUR	3:30:00 PM	65.716	66.092			N/A
11/19/2018	USDSEK	9:30:00 AM	9.0074	9.0119			N/A
11/19/2018	USDSEK	11:30:00 AM	9.0076	9.0119			N/A
11/19/2018	USDSEK	1:30:00 PM	8.9917	8.9957			N/A
11/19/2018	USDSEK	3:30:00 PM	8.9914	8.9942			N/A
11/19/2018	USDSGD	9:30:00 AM	1.3726	1.3731			N/A
11/19/2018	USDSGD	11:30:00 AM	1.3726	1.373			N/A
11/19/2018	USDSGD	1:30:00 PM	1.3721	1.3724			N/A
11/19/2018	USDSGD	3:30:00 PM	1.372	1.3724			N/A
11/19/2018	USDZAR	9:30:00 AM	14.0067	14.0191			N/A
11/19/2018	USDZAR	11:30:00 AM	13.9973	14.0125			N/A
11/19/2018	USDZAR	1:30:00 PM	13.9687	13.9885			N/A
11/19/2018	USDZAR	3:30:00 PM	13.9912	14.0071			N/A
11/19/2018	XAUUSD	9:30:00 AM	1219.63	1219.9			N/A

11/19/2018	XAUUSD	11:30:00 AM	1219.31	1219.52			N/A
11/19/2018	XAUUSD	1:30:00 PM	1222.07	1222.36			N/A
11/19/2018	XAUUSD	3:30:00 PM	1221.71	1221.77			N/A
11/19/2018	ZARJPY	9:30:00 AM	8	8.04			N/A
11/19/2018	ZARJPY	11:30:00 AM					N/A
11/19/2018	ZARJPY	1:30:00 PM					N/A
11/19/2018	ZARJPY	3:30:00 PM					N/A
11/20/2018	#AA	9:30:00 AM					N/A
11/20/2018	#AA	11:30:00 AM					N/A
11/20/2018	#AA	1:30:00 PM					N/A
11/20/2018	#AA	3:30:00 PM					N/A
11/20/2018	#AABA	9:30:00 AM					N/A
11/20/2018	#AABA	11:30:00 AM					N/A
11/20/2018	#AABA	1:30:00 PM					N/A
11/20/2018	#AABA	3:30:00 PM					N/A
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11/20/2018	#AAL	3:30:00 PM					N/A
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11/20/2018	#AAPL	1:30:00 PM					N/A
11/20/2018	#AAPL	3:30:00 PM					N/A
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11/20/2018	#ADBE	1:30:00 PM					N/A
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11/20/2018	#AIG	1:30:00 PM					N/A
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11/20/2018	#AMD	1:30:00 PM					N/A
11/20/2018	#AMD	3:30:00 PM					N/A
11/20/2018	#AMZN	9:30:00 AM					N/A
11/20/2018	#AMZN	11:30:00 AM					N/A
11/20/2018	#AMZN	1:30:00 PM					N/A
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11/20/2018	#BA	3:30:00 PM					N/A
11/20/2018	#BABA	9:30:00 AM					N/A
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11/20/2018	#BABA	1:30:00 PM					N/A

11/20/2018	#BABA	3:30:00 PM					N/A
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11/20/2018	#BARC	3:30:00 PM					N/A
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11/20/2018	#BHP	3:30:00 PM					N/A
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11/20/2018	#BIDU	1:30:00 PM					N/A
11/20/2018	#BIDU	3:30:00 PM					N/A
11/20/2018	#BK	9:30:00 AM					N/A
11/20/2018	#BK	11:30:00 AM					N/A
11/20/2018	#BK	1:30:00 PM					N/A
11/20/2018	#BK	3:30:00 PM					N/A
11/20/2018	#BLT	9:30:00 AM					N/A
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11/20/2018	#BLT	3:30:00 PM					N/A
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11/20/2018	#BP	1:30:00 PM					N/A
11/20/2018	#BP	3:30:00 PM					N/A
11/20/2018	#BTA	9:30:00 AM					N/A
11/20/2018	#BTA	11:30:00 AM					N/A
11/20/2018	#BTA	1:30:00 PM					N/A
11/20/2018	#BTA	3:30:00 PM					N/A
11/20/2018	#C	9:30:00 AM					N/A
11/20/2018	#C	11:30:00 AM					N/A
11/20/2018	#C	1:30:00 PM					N/A
11/20/2018	#C	3:30:00 PM					N/A
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11/20/2018	#CAT	11:30:00 AM					N/A
11/20/2018	#CAT	1:30:00 PM					N/A
11/20/2018	#CAT	3:30:00 PM					N/A
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11/20/2018	#CHL	11:30:00 AM					N/A
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11/20/2018	#CHL	3:30:00 PM					N/A
11/20/2018	#CMCSA	9:30:00 AM					N/A
11/20/2018	#CMCSA	11:30:00 AM					N/A
11/20/2018	#CMCSA	1:30:00 PM					N/A
11/20/2018	#CMCSA	3:30:00 PM					N/A
11/20/2018	#CSCO	9:30:00 AM					N/A

11/20/2018	#CSCO	11:30:00 AM					N/A
11/20/2018	#CSCO	1:30:00 PM					N/A
11/20/2018	#CSCO	3:30:00 PM					N/A
11/20/2018	#CVX	9:30:00 AM					N/A
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11/20/2018	#CVX	1:30:00 PM					N/A
11/20/2018	#CVX	3:30:00 PM					N/A
11/20/2018	#DD	9:30:00 AM					N/A
11/20/2018	#DD	11:30:00 AM					N/A
11/20/2018	#DD	1:30:00 PM					N/A
11/20/2018	#DD	3:30:00 PM					N/A
11/20/2018	#DIS	9:30:00 AM					N/A
11/20/2018	#DIS	11:30:00 AM					N/A
11/20/2018	#DIS	1:30:00 PM					N/A
11/20/2018	#DIS	3:30:00 PM					N/A
11/20/2018	#DWDP	9:30:00 AM					N/A
11/20/2018	#DWDP	11:30:00 AM					N/A
11/20/2018	#DWDP	1:30:00 PM					N/A
11/20/2018	#DWDP	3:30:00 PM					N/A
11/20/2018	#EBAY	9:30:00 AM					N/A
11/20/2018	#EBAY	11:30:00 AM					N/A
11/20/2018	#EBAY	1:30:00 PM					N/A
11/20/2018	#EBAY	3:30:00 PM					N/A
11/20/2018	#F	9:30:00 AM					N/A
11/20/2018	#F	11:30:00 AM					N/A
11/20/2018	#F	1:30:00 PM					N/A
11/20/2018	#F	3:30:00 PM					N/A
11/20/2018	#FB	9:30:00 AM					N/A
11/20/2018	#FB	11:30:00 AM					N/A
11/20/2018	#FB	1:30:00 PM					N/A
11/20/2018	#FB	3:30:00 PM					N/A
11/20/2018	#FCX	9:30:00 AM					N/A
11/20/2018	#FCX	11:30:00 AM					N/A
11/20/2018	#FCX	1:30:00 PM					N/A
11/20/2018	#FCX	3:30:00 PM					N/A
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11/20/2018	AUDCAD	1:30:00 PM	0.95823	0.95887			N/A
11/20/2018	AUDCAD	3:30:00 PM	0.95906	0.95967			N/A
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11/20/2018	AUDCHF	1:30:00 PM	0.72166	0.72229			N/A
11/20/2018	AUDCHF	3:30:00 PM	0.72062	0.72127			N/A
11/20/2018	AUDCZK	9:30:00 AM	16.535	16.552			N/A
11/20/2018	AUDCZK	11:30:00 AM	16.611	16.617			N/A
11/20/2018	AUDCZK	1:30:00 PM	16.549	16.565			N/A
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11/20/2018	AUDDKK	1:30:00 PM	4.7446	4.7491			N/A
11/20/2018	AUDDKK	3:30:00 PM	4.7488	4.7529			N/A
11/20/2018	AUDHKD	9:30:00 AM	5.7028	5.7067			N/A
11/20/2018	AUDHKD	11:30:00 AM	5.7073	5.7111			N/A
11/20/2018	AUDHKD	1:30:00 PM	5.6936	5.6975			N/A
11/20/2018	AUDHKD	3:30:00 PM	5.6898	5.6925			N/A
11/20/2018	AUDHUF	9:30:00 AM	204.05	204.28			N/A
11/20/2018	AUDHUF	11:30:00 AM	205.04	205.25			N/A
11/20/2018	AUDHUF	1:30:00 PM	204.15	204.38			N/A
11/20/2018	AUDHUF	3:30:00 PM	204.28	204.49			N/A
11/20/2018	AUDJPY	9:30:00 AM	81.931	81.989			N/A
11/20/2018	AUDJPY	11:30:00 AM	81.903	81.965			N/A
11/20/2018	AUDJPY	1:30:00 PM	81.754	81.811			N/A

11/20/2018	AUDJPY	3:30:00 PM	81.643	81.694			N/A
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11/20/2018	AUDMXN	3:30:00 PM	14.8285	14.836			N/A
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11/20/2018	AUDNOK	3:30:00 PM	6.181	6.1866			N/A
11/20/2018	AUDNZD	9:30:00 AM	1.0621	1.06286			N/A
11/20/2018	AUDNZD	11:30:00 AM	1.06154	1.0622			N/A
11/20/2018	AUDNZD	1:30:00 PM	1.06063	1.06132			N/A
11/20/2018	AUDNZD	3:30:00 PM	1.06136	1.06199			N/A
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11/20/2018	AUDSEK	1:30:00 PM	6.5577	6.5608			N/A
11/20/2018	AUDSEK	3:30:00 PM	6.5644	6.5668			N/A
11/20/2018	AUDSGD	9:30:00 AM	0.9993	0.9997			N/A
11/20/2018	AUDSGD	11:30:00 AM	1.0002	1.0005			N/A
11/20/2018	AUDSGD	1:30:00 PM	0.9978	0.9982			N/A
11/20/2018	AUDSGD	3:30:00 PM	0.9975	0.9978			N/A
11/20/2018	AUDUSD	9:30:00 AM	0.72871	0.7286			N/A
11/20/2018	AUDUSD	11:30:00 AM	0.7292	0.72916			N/A
11/20/2018	AUDUSD	1:30:00 PM	0.7274	0.72725			N/A
11/20/2018	AUDUSD	3:30:00 PM	0.72704	0.72688			N/A
11/20/2018	AUDZAR	9:30:00 AM	10.2243	10.228			N/A
11/20/2018	AUDZAR	11:30:00 AM	10.2503	10.2581			N/A
11/20/2018	AUDZAR	1:30:00 PM	10.2189	10.2273			N/A
11/20/2018	AUDZAR	3:30:00 PM	10.2149	10.2273			N/A
11/20/2018	CADCHF	9:30:00 AM	0.7535	0.75415			N/A
11/20/2018	CADCHF	11:30:00 AM	0.75313	0.7537			N/A
11/20/2018	CADCHF	1:30:00 PM	0.75284	0.75354			N/A
11/20/2018	CADCHF	3:30:00 PM	0.75119	0.75177			N/A
11/20/2018	CADCZK	9:30:00 AM	17.245	17.263			N/A
11/20/2018	CADCZK	11:30:00 AM	17.301	17.307			N/A
11/20/2018	CADCZK	1:30:00 PM	17.269	17.286			N/A
11/20/2018	CADCZK	3:30:00 PM	17.266	17.28			N/A
11/20/2018	CADDKK	9:30:00 AM	4.947	4.95			N/A
11/20/2018	CADDKK	11:30:00 AM	4.955	4.959			N/A
11/20/2018	CADDKK	1:30:00 PM	4.952	4.955			N/A
11/20/2018	CADDKK	3:30:00 PM					N/A
11/20/2018	CADHKD	9:30:00 AM	5.9477	5.9509			N/A
11/20/2018	CADHKD	11:30:00 AM	5.9441	5.9478			N/A
11/20/2018	CADHKD	1:30:00 PM	5.9416	5.9453			N/A
11/20/2018	CADHKD	3:30:00 PM	5.9322	5.9359			N/A
11/20/2018	CADHUF	9:30:00 AM	212.84	213.01			N/A

11/20/2018	CADHUF	11:30:00 AM	213.57	213.73			N/A
11/20/2018	CADHUF	1:30:00 PM	213.06	213.23			N/A
11/20/2018	CADHUF	3:30:00 PM	213.03	213.17			N/A
11/20/2018	CADJPY	9:30:00 AM	85.427	85.485			N/A
11/20/2018	CADJPY	11:30:00 AM	85.278	85.346			N/A
11/20/2018	CADJPY	1:30:00 PM	85.288	85.35			N/A
11/20/2018	CADJPY	3:30:00 PM	85.101	85.154			N/A
11/20/2018	CADMXN	9:30:00 AM	15.4657	15.4761			N/A
11/20/2018	CADMXN	11:30:00 AM	15.4683	15.4767			N/A
11/20/2018	CADMXN	1:30:00 PM	15.4738	15.4799			N/A
11/20/2018	CADMXN	3:30:00 PM	15.4605	15.4685			N/A
11/20/2018	CADNOK	9:30:00 AM	6.4316	6.4364			N/A
11/20/2018	CADNOK	11:30:00 AM	6.4426	6.4463			N/A
11/20/2018	CADNOK	1:30:00 PM	6.4386	6.4427			N/A
11/20/2018	CADNOK	3:30:00 PM	6.4453	6.4502			N/A
11/20/2018	CADPLN	9:30:00 AM	2.87	2.8719			N/A
11/20/2018	CADPLN	11:30:00 AM	2.877	2.8789			N/A
11/20/2018	CADPLN	1:30:00 PM	2.8684	2.8704			N/A
11/20/2018	CADPLN	3:30:00 PM	2.8652	2.8664			N/A
11/20/2018	CADSEK	9:30:00 AM	6.8377	6.841			N/A
11/20/2018	CADSEK	11:30:00 AM	6.8432	6.8466			N/A
11/20/2018	CADSEK	1:30:00 PM	6.8404	6.8435			N/A
11/20/2018	CADSEK	3:30:00 PM	6.8419	6.8451			N/A
11/20/2018	CADSGD	9:30:00 AM	1.0418	1.0421			N/A
11/20/2018	CADSGD	11:30:00 AM	1.0414	1.0417			N/A
11/20/2018	CADSGD	1:30:00 PM	1.0413	1.0416			N/A
11/20/2018	CADSGD	3:30:00 PM	1.04	1.0403			N/A
11/20/2018	CADZAR	9:30:00 AM	10.6559	10.6648			N/A
11/20/2018	CADZAR	11:30:00 AM	10.6697	10.6831			N/A
11/20/2018	CADZAR	1:30:00 PM	10.6571	10.6678			N/A
11/20/2018	CADZAR	3:30:00 PM	10.6443	10.6591			N/A
11/20/2018	CHFCZK	9:30:00 AM	22.884	22.898			N/A
11/20/2018	CHFCZK	11:30:00 AM	22.969	22.968			N/A
11/20/2018	CHFCZK	1:30:00 PM	22.932	22.948			N/A
11/20/2018	CHFCZK	3:30:00 PM	22.981	22.994			N/A
11/20/2018	CHFDKK	9:30:00 AM					N/A
11/20/2018	CHFDKK	11:30:00 AM	6.576	6.579			N/A
11/20/2018	CHFDKK	1:30:00 PM					N/A
11/20/2018	CHFDKK	3:30:00 PM	6.589	6.593			N/A
11/20/2018	CHFHKD	9:30:00 AM	7.892	7.894			N/A
11/20/2018	CHFHKD	11:30:00 AM	7.8919	7.8951			N/A
11/20/2018	CHFHKD	1:30:00 PM	7.8887	7.8925			N/A
11/20/2018	CHFHKD	3:30:00 PM	7.8962	7.8984			N/A
11/20/2018	CHFHUF	9:30:00 AM	282.29	282.64			N/A
11/20/2018	CHFHUF	11:30:00 AM	283.43	283.78			N/A
11/20/2018	CHFHUF	1:30:00 PM	282.83	283.2			N/A
11/20/2018	CHFHUF	3:30:00 PM	283.41	283.77			N/A
11/20/2018	CHFJPY	9:30:00 AM	113.37	113.381			N/A
11/20/2018	CHFJPY	11:30:00 AM	113.231	113.237			N/A
11/20/2018	CHFJPY	1:30:00 PM	113.269	113.292			N/A

11/20/2018	CHFJPY	3:30:00 PM	113.288	113.301			N/A
11/20/2018	CHFMXN	9:30:00 AM	20.5179	20.5282			N/A
11/20/2018	CHFMXN	11:30:00 AM	20.5306	20.5433			N/A
11/20/2018	CHFMXN	1:30:00 PM	20.5427	20.5532			N/A
11/20/2018	CHFMXN	3:30:00 PM	20.5738	20.5857			N/A
11/20/2018	CHFNOK	9:30:00 AM	8.5319	8.5395			N/A
11/20/2018	CHFNOK	11:30:00 AM	8.5523	8.5566			N/A
11/20/2018	CHFNOK	1:30:00 PM	8.5488	8.5554			N/A
11/20/2018	CHFNOK	3:30:00 PM	8.5774	8.5843			N/A
11/20/2018	CHFPLN	9:30:00 AM	3.8076	3.8104			N/A
11/20/2018	CHFPLN	11:30:00 AM	3.8194	3.8215			N/A
11/20/2018	CHFPLN	1:30:00 PM	3.8084	3.8111			N/A
11/20/2018	CHFPLN	3:30:00 PM	3.8131	3.815			N/A
11/20/2018	CHFSEK	9:30:00 AM	9.0733	9.0767			N/A
11/20/2018	CHFSEK	11:30:00 AM	9.0855	9.0868			N/A
11/20/2018	CHFSEK	1:30:00 PM	9.0847	9.0869			N/A
11/20/2018	CHFSEK	3:30:00 PM	9.1069	9.11			N/A
11/20/2018	CHFSGD	9:30:00 AM	1.3824	1.3826			N/A
11/20/2018	CHFSGD	11:30:00 AM	1.3824	1.3828			N/A
11/20/2018	CHFSGD	1:30:00 PM	1.3823	1.3827			N/A
11/20/2018	CHFSGD	3:30:00 PM	1.3838	1.3841			N/A
11/20/2018	CHFZAR	9:30:00 AM	14.14	14.1445			N/A
11/20/2018	CHFZAR	11:30:00 AM	14.1686	14.1757			N/A
11/20/2018	CHFZAR	1:30:00 PM	14.155	14.1588			N/A
11/20/2018	CHFZAR	3:30:00 PM	14.1702	14.1814			N/A
11/20/2018	CZKJPY	9:30:00 AM	4.952	4.956			N/A
11/20/2018	CZKJPY	11:30:00 AM	4.931	4.931			N/A
11/20/2018	CZKJPY	1:30:00 PM	4.937	4.941			N/A
11/20/2018	CZKJPY	3:30:00 PM	4.927	4.93			N/A
11/20/2018	DKKJPY	9:30:00 AM					N/A
11/20/2018	DKKJPY	11:30:00 AM	17.22	17.23			N/A
11/20/2018	DKKJPY	1:30:00 PM					N/A
11/20/2018	DKKJPY	3:30:00 PM	17.18	17.2			N/A
11/20/2018	EURAUD	9:30:00 AM	1.57253	1.57226			N/A
11/20/2018	EURAUD	11:30:00 AM	1.56768	1.56752			N/A
11/20/2018	EURAUD	1:30:00 PM	1.57191	1.57165			N/A
11/20/2018	EURAUD	3:30:00 PM	1.57067	1.57028			N/A
11/20/2018	EURCAD	9:30:00 AM	1.50829	1.50874			N/A
11/20/2018	EURCAD	11:30:00 AM	1.50592	1.50628			N/A
11/20/2018	EURCAD	1:30:00 PM	1.50678	1.50731			N/A
11/20/2018	EURCAD	3:30:00 PM	1.50703	1.50727			N/A
11/20/2018	EURCHF	9:30:00 AM	1.13707	1.13703			N/A
11/20/2018	EURCHF	11:30:00 AM	1.13468	1.13452			N/A
11/20/2018	EURCHF	1:30:00 PM	1.13496	1.13504			N/A
11/20/2018	EURCHF	3:30:00 PM	1.13223	1.13274			N/A
11/20/2018	EURCZK	9:30:00 AM	26.003	26.042			N/A
11/20/2018	EURCZK	11:30:00 AM	26.046	26.072			N/A
11/20/2018	EURCZK	1:30:00 PM	26.013	26.053			N/A
11/20/2018	EURCZK	3:30:00 PM	26.012	26.05			N/A
11/20/2018	EURDKK	9:30:00 AM	7.4617	7.4628			N/A

11/20/2018	EURDKK	11:30:00 AM	7.4617	7.463			N/A
11/20/2018	EURDKK	1:30:00 PM	7.4617	7.4629			N/A
11/20/2018	EURDKK	3:30:00 PM	7.462	7.4631			N/A
11/20/2018	EURGBP	9:30:00 AM	0.89136	0.89138			N/A
11/20/2018	EURGBP	11:30:00 AM	0.89048	0.8905			N/A
11/20/2018	EURGBP	1:30:00 PM	0.88918	0.88892			N/A
11/20/2018	EURGBP	3:30:00 PM	0.88924	0.88926			N/A
11/20/2018	EURHKD	9:30:00 AM	8.9723	8.9754			N/A
11/20/2018	EURHKD	11:30:00 AM	8.9519	8.9561			N/A
11/20/2018	EURHKD	1:30:00 PM	8.9525	8.9572			N/A
11/20/2018	EURHKD	3:30:00 PM	8.941	8.9422			N/A
11/20/2018	EURHUF	9:30:00 AM	320.88	321.58			N/A
11/20/2018	EURHUF	11:30:00 AM	321.41	322.15			N/A
11/20/2018	EURHUF	1:30:00 PM	320.88	321.61			N/A
11/20/2018	EURHUF	3:30:00 PM	320.84	321.54			N/A
11/20/2018	EURJPY	9:30:00 AM	128.941	128.898			N/A
11/20/2018	EURJPY	11:30:00 AM	128.494	128.478			N/A
11/20/2018	EURJPY	1:30:00 PM	128.587	128.572			N/A
11/20/2018	EURJPY	3:30:00 PM	128.329	128.276			N/A
11/20/2018	EURMXN	9:30:00 AM	23.33	23.3435			N/A
11/20/2018	EURMXN	11:30:00 AM	23.2954	23.3072			N/A
11/20/2018	EURMXN	1:30:00 PM	23.3179	23.3284			N/A
11/20/2018	EURMXN	3:30:00 PM	23.3007	23.3135			N/A
11/20/2018	EURNOK	9:30:00 AM	9.6993	9.7117			N/A
11/20/2018	EURNOK	11:30:00 AM	9.7014	9.7106			N/A
11/20/2018	EURNOK	1:30:00 PM	9.7013	9.7121			N/A
11/20/2018	EURNOK	3:30:00 PM	9.7107	9.7231			N/A
11/20/2018	EURNZD	9:30:00 AM	1.67073	1.67144			N/A
11/20/2018	EURNZD	11:30:00 AM	1.66474	1.66543			N/A
11/20/2018	EURNZD	1:30:00 PM	1.66775	1.66835			N/A
11/20/2018	EURNZD	3:30:00 PM	1.66758	1.66796			N/A
11/20/2018	EURPLN	9:30:00 AM	4.3292	4.3324			N/A
11/20/2018	EURPLN	11:30:00 AM	4.3333	4.3356			N/A
11/20/2018	EURPLN	1:30:00 PM	4.323	4.3251			N/A
11/20/2018	EURPLN	3:30:00 PM	4.3181	4.3204			N/A
11/20/2018	EURRUR	9:30:00 AM					N/A
11/20/2018	EURRUR	11:30:00 AM	74.787	75.22			N/A
11/20/2018	EURRUR	1:30:00 PM	74.803	75.221			N/A
11/20/2018	EURRUR	3:30:00 PM	74.749	75.126			N/A
11/20/2018	EURSEK	9:30:00 AM	10.3151	10.32			N/A
11/20/2018	EURSEK	11:30:00 AM	10.3063	10.31			N/A
11/20/2018	EURSEK	1:30:00 PM	10.3095	10.314			N/A
11/20/2018	EURSEK	3:30:00 PM	10.3119	10.3167			N/A
11/20/2018	EURSGD	9:30:00 AM	1.5717	1.5724			N/A
11/20/2018	EURSGD	11:30:00 AM	1.5683	1.569			N/A
11/20/2018	EURSGD	1:30:00 PM	1.5687	1.5695			N/A
11/20/2018	EURSGD	3:30:00 PM	1.567	1.5673			N/A
11/20/2018	EURUSD	9:30:00 AM	1.14581	1.14562			N/A
11/20/2018	EURUSD	11:30:00 AM	1.14316	1.14307			N/A
11/20/2018	EURUSD	1:30:00 PM	1.14316	1.14315			N/A

11/20/2018	EURUSD	3:30:00 PM	1.14194	1.14142			N/A
11/20/2018	EURZAR	9:30:00 AM	16.0797	16.084			N/A
11/20/2018	EURZAR	11:30:00 AM	16.0752	16.0824			N/A
11/20/2018	EURZAR	1:30:00 PM	16.0675	16.0749			N/A
11/20/2018	EURZAR	3:30:00 PM	16.0476	16.0596			N/A
11/20/2018	GBPAUD	9:30:00 AM	1.76413	1.76453			N/A
11/20/2018	GBPAUD	11:30:00 AM	1.76057	1.76099			N/A
11/20/2018	GBPAUD	1:30:00 PM	1.76829	1.76836			N/A
11/20/2018	GBPAUD	3:30:00 PM	1.76628	1.76677			N/A
11/20/2018	GBPCAD	9:30:00 AM	1.69195	1.69238			N/A
11/20/2018	GBPCAD	11:30:00 AM	1.69086	1.6913			N/A
11/20/2018	GBPCAD	1:30:00 PM	1.69492	1.69511			N/A
11/20/2018	GBPCAD	3:30:00 PM	1.6944	1.69499			N/A
11/20/2018	GBPCHF	9:30:00 AM	1.27552	1.27578			N/A
11/20/2018	GBPCHF	11:30:00 AM	1.27416	1.27414			N/A
11/20/2018	GBPCHF	1:30:00 PM	1.27672	1.27659			N/A
11/20/2018	GBPCHF	3:30:00 PM	1.27329	1.27387			N/A
11/20/2018	GBPCZK	9:30:00 AM	29.183	29.203			N/A
11/20/2018	GBPCZK	11:30:00 AM	29.256	29.255			N/A
11/20/2018	GBPCZK	1:30:00 PM	29.274	29.285			N/A
11/20/2018	GBPCZK	3:30:00 PM	29.259	29.279			N/A
11/20/2018	GBPDKK	9:30:00 AM	8.368	8.379			N/A
11/20/2018	GBPDKK	11:30:00 AM	8.376	8.387			N/A
11/20/2018	GBPDKK	1:30:00 PM	8.391	8.4			N/A
11/20/2018	GBPDKK	3:30:00 PM	8.388	8.399			N/A
11/20/2018	GBPHKD	9:30:00 AM	10.0647	10.0674			N/A
11/20/2018	GBPHKD	11:30:00 AM	10.0521	10.0552			N/A
11/20/2018	GBPHKD	1:30:00 PM	10.0709	10.0727			N/A
11/20/2018	GBPHKD	3:30:00 PM	10.0525	10.0554			N/A
11/20/2018	GBPHUF	9:30:00 AM	360	360.47			N/A
11/20/2018	GBPHUF	11:30:00 AM	361.02	361.48			N/A
11/20/2018	GBPHUF	1:30:00 PM	361.04	361.4			N/A
11/20/2018	GBPHUF	3:30:00 PM	360.86	361.3			N/A
11/20/2018	GBPJPY	9:30:00 AM	144.629	144.619			N/A
11/20/2018	GBPJPY	11:30:00 AM	144.278	144.285			N/A
11/20/2018	GBPJPY	1:30:00 PM	144.639	144.618			N/A
11/20/2018	GBPJPY	3:30:00 PM	144.275	144.265			N/A
11/20/2018	GBPMXN	9:30:00 AM	26.1708	26.1768			N/A
11/20/2018	GBPMXN	11:30:00 AM	26.1559	26.1597			N/A
11/20/2018	GBPMXN	1:30:00 PM	26.2242	26.2328			N/A
11/20/2018	GBPMXN	3:30:00 PM	26.1991	26.208			N/A
11/20/2018	GBPNOK	9:30:00 AM	10.883	10.8938			N/A
11/20/2018	GBPNOK	11:30:00 AM	10.8958	10.9033			N/A
11/20/2018	GBPNOK	1:30:00 PM	10.914	10.923			N/A
11/20/2018	GBPNOK	3:30:00 PM	10.9231	10.9337			N/A
11/20/2018	GBPNZD	9:30:00 AM	1.87455	1.87489			N/A
11/20/2018	GBPNZD	11:30:00 AM	1.86971	1.87005			N/A
11/20/2018	GBPNZD	1:30:00 PM	1.87619	1.87646			N/A
11/20/2018	GBPNZD	3:30:00 PM	1.87547	1.87569			N/A
11/20/2018	GBPPLN	9:30:00 AM	4.8579	4.8594			N/A

11/20/2018	GBPPLN	11:30:00 AM	4.8667	4.8679			N/A
11/20/2018	GBPPLN	1:30:00 PM	4.8638	4.8633			N/A
11/20/2018	GBPPLN	3:30:00 PM	4.857	4.858			N/A
11/20/2018	GBPSEK	9:30:00 AM	11.5709	11.579			N/A
11/20/2018	GBPSEK	11:30:00 AM	11.5718	11.5785			N/A
11/20/2018	GBPSEK	1:30:00 PM	11.5963	11.6015			N/A
11/20/2018	GBPSEK	3:30:00 PM	11.5948	11.6032			N/A
11/20/2018	GBPSGD	9:30:00 AM	1.7634	1.7638			N/A
11/20/2018	GBPSGD	11:30:00 AM	1.7613	1.7618			N/A
11/20/2018	GBPSGD	1:30:00 PM	1.7647	1.7651			N/A
11/20/2018	GBPSGD	3:30:00 PM	1.7623	1.7625			N/A
11/20/2018	GBPUSD	9:30:00 AM	1.28566	1.2853			N/A
11/20/2018	GBPUSD	11:30:00 AM	1.28395	1.28366			N/A
11/20/2018	GBPUSD	1:30:00 PM	1.28623	1.28581			N/A
11/20/2018	GBPUSD	3:30:00 PM	1.2842	1.28379			N/A
11/20/2018	GBPZAR	9:30:00 AM	18.0357	18.0482			N/A
11/20/2018	GBPZAR	11:30:00 AM	18.0492	18.0654			N/A
11/20/2018	GBPZAR	1:30:00 PM	18.0703	18.09			N/A
11/20/2018	GBPZAR	3:30:00 PM	18.0437	18.0642			N/A
11/20/2018	GOLD	9:30:00 AM	1224.92	1224.99			N/A
11/20/2018	GOLD	11:30:00 AM	1224.52	1224.67			N/A
11/20/2018	GOLD	1:30:00 PM	1223.59	1223.64			N/A
11/20/2018	GOLD	3:30:00 PM	1228.15	1228.04			N/A
11/20/2018	HKDJPY	9:30:00 AM					N/A
11/20/2018	HKDJPY	11:30:00 AM					N/A
11/20/2018	HKDJPY	1:30:00 PM					N/A
11/20/2018	HKDJPY	3:30:00 PM					N/A
11/20/2018	HUFJPY	9:30:00 AM	0.4015	0.4018			N/A
11/20/2018	HUFJPY	11:30:00 AM	0.3994	0.3997			N/A
11/20/2018	HUFJPY	1:30:00 PM	0.4004	0.4007			N/A
11/20/2018	HUFJPY	3:30:00 PM	0.3996	0.3999			N/A
11/20/2018	MXNJPY	9:30:00 AM					N/A
11/20/2018	MXNJPY	11:30:00 AM					N/A
11/20/2018	MXNJPY	1:30:00 PM					N/A
11/20/2018	MXNJPY	3:30:00 PM	5.51	5.52			N/A
11/20/2018	NOKJPY	9:30:00 AM					N/A
11/20/2018	NOKJPY	11:30:00 AM	13.22	13.26			N/A
11/20/2018	NOKJPY	1:30:00 PM	13.24	13.27			N/A
11/20/2018	NOKJPY	3:30:00 PM					N/A
11/20/2018	NZDCAD	9:30:00 AM	0.90232	0.90298			N/A
11/20/2018	NZDCAD	11:30:00 AM	0.90407	0.90474			N/A
11/20/2018	NZDCAD	1:30:00 PM	0.90307	0.90371			N/A
11/20/2018	NZDCAD	3:30:00 PM	0.90329	0.90381			N/A
11/20/2018	NZDCHF	9:30:00 AM	0.68011	0.68074			N/A
11/20/2018	NZDCHF	11:30:00 AM	0.68107	0.68167			N/A
11/20/2018	NZDCHF	1:30:00 PM	0.68013	0.68073			N/A
11/20/2018	NZDCHF	3:30:00 PM	0.67871	0.67933			N/A
11/20/2018	NZDCZK	9:30:00 AM	15.564	15.577			N/A
11/20/2018	NZDCZK	11:30:00 AM	15.645	15.646			N/A
11/20/2018	NZDCZK	1:30:00 PM	15.598	15.61			N/A

11/20/2018	NZDCZK	3:30:00 PM	15.599	15.608			N/A
11/20/2018	NZDDKK	9:30:00 AM					N/A
11/20/2018	NZDDKK	11:30:00 AM					N/A
11/20/2018	NZDDKK	1:30:00 PM					N/A
11/20/2018	NZDDKK	3:30:00 PM	4.473	4.476			N/A
11/20/2018	NZDHKD	9:30:00 AM	5.3673	5.3697			N/A
11/20/2018	NZDHKD	11:30:00 AM	5.3745	5.3774			N/A
11/20/2018	NZDHKD	1:30:00 PM	5.3655	5.3684			N/A
11/20/2018	NZDHKD	3:30:00 PM	5.3584	5.3603			N/A
11/20/2018	NZDHUF	9:30:00 AM	191.98	192.28			N/A
11/20/2018	NZDHUF	11:30:00 AM	193.03	193.32			N/A
11/20/2018	NZDHUF	1:30:00 PM	192.36	192.64			N/A
11/20/2018	NZDHUF	3:30:00 PM	192.37	192.62			N/A
11/20/2018	NZDJPY	9:30:00 AM	77.106	77.165			N/A
11/20/2018	NZDJPY	11:30:00 AM	77.121	77.191			N/A
11/20/2018	NZDJPY	1:30:00 PM	77.048	77.106			N/A
11/20/2018	NZDJPY	3:30:00 PM	76.89	76.948			N/A
11/20/2018	NZDMXN	9:30:00 AM	13.9574	13.9616			N/A
11/20/2018	NZDMXN	11:30:00 AM	13.9853	13.9892			N/A
11/20/2018	NZDMXN	1:30:00 PM	13.9743	13.977			N/A
11/20/2018	NZDMXN	3:30:00 PM	13.9666	13.97			N/A
11/20/2018	NZDNOK	9:30:00 AM	5.8041	5.8079			N/A
11/20/2018	NZDNOK	11:30:00 AM	5.825	5.8283			N/A
11/20/2018	NZDNOK	1:30:00 PM	5.8147	5.8185			N/A
11/20/2018	NZDNOK	3:30:00 PM	5.8226	5.825			N/A
11/20/2018	NZDPLN	9:30:00 AM	2.5899	2.5913			N/A
11/20/2018	NZDPLN	11:30:00 AM	2.6016	2.6028			N/A
11/20/2018	NZDPLN	1:30:00 PM	2.5906	2.592			N/A
11/20/2018	NZDPLN	3:30:00 PM	2.588	2.5884			N/A
11/20/2018	NZDSEK	9:30:00 AM	6.1685	6.1754			N/A
11/20/2018	NZDSEK	11:30:00 AM	6.1851	6.1914			N/A
11/20/2018	NZDSEK	1:30:00 PM	6.1758	6.1827			N/A
11/20/2018	NZDSEK	3:30:00 PM	6.1789	6.1837			N/A
11/20/2018	NZDSGD	9:30:00 AM					N/A
11/20/2018	NZDSGD	11:30:00 AM	0.9419	0.9426			N/A
11/20/2018	NZDSGD	1:30:00 PM	0.9405	0.9412			N/A
11/20/2018	NZDSGD	3:30:00 PM	0.9395	0.9402			N/A
11/20/2018	NZDUSD	9:30:00 AM	0.68561	0.68558			N/A
11/20/2018	NZDUSD	11:30:00 AM	0.68651	0.68649			N/A
11/20/2018	NZDUSD	1:30:00 PM	0.68533	0.68528			N/A
11/20/2018	NZDUSD	3:30:00 PM	0.68456	0.68442			N/A
11/20/2018	NZDZAR	9:30:00 AM	9.6149	9.6233			N/A
11/20/2018	NZDZAR	11:30:00 AM	9.6459	9.6581			N/A
11/20/2018	NZDZAR	1:30:00 PM	9.6238	9.6348			N/A
11/20/2018	NZDZAR	3:30:00 PM	9.6133	9.629			N/A
11/20/2018	SEKJPY	9:30:00 AM	12.5	12.52			N/A
11/20/2018	SEKJPY	11:30:00 AM	12.47	12.48			N/A
11/20/2018	SEKJPY	1:30:00 PM					N/A
11/20/2018	SEKJPY	3:30:00 PM	12.43	12.45			N/A
11/20/2018	SGDJPY	9:30:00 AM	81.97	81.99			N/A

11/20/2018	SGDJPY	11:30:00 AM	81.87	81.9			N/A
11/20/2018	SGDJPY	1:30:00 PM	81.9	81.93			N/A
11/20/2018	SGDJPY	3:30:00 PM	81.83	81.85			N/A
11/20/2018	SILVER	9:30:00 AM	14.21	14.58			N/A
11/20/2018	SILVER	11:30:00 AM	14.21	14.59			N/A
11/20/2018	SILVER	1:30:00 PM	14.22	14.59			N/A
11/20/2018	SILVER	3:30:00 PM	14.29	14.65			N/A
11/20/2018	USDCAD	9:30:00 AM	1.3165	1.31644			N/A
11/20/2018	USDCAD	11:30:00 AM	1.31726	1.31731			N/A
11/20/2018	USDCAD	1:30:00 PM	1.31815	1.31811			N/A
11/20/2018	USDCAD	3:30:00 PM	1.32001	1.31981			N/A
11/20/2018	USDCHF	9:30:00 AM	0.99243	0.99225			N/A
11/20/2018	USDCHF	11:30:00 AM	0.99242	0.99242			N/A
11/20/2018	USDCHF	1:30:00 PM	0.9927	0.99273			N/A
11/20/2018	USDCHF	3:30:00 PM	0.99158	0.99198			N/A
11/20/2018	USDCZK	9:30:00 AM	22.702	22.723			N/A
11/20/2018	USDCZK	11:30:00 AM	22.787	22.796			N/A
11/20/2018	USDCZK	1:30:00 PM	22.76	22.783			N/A
11/20/2018	USDCZK	3:30:00 PM	22.789	22.804			N/A
11/20/2018	USDDKK	9:30:00 AM	6.5135	6.5176			N/A
11/20/2018	USDDKK	11:30:00 AM	6.5281	6.5328			N/A
11/20/2018	USDDKK	1:30:00 PM	6.5276	6.5326			N/A
11/20/2018	USDDKK	3:30:00 PM	6.5376	6.5401			N/A
11/20/2018	USDHKD	9:30:00 AM					N/A
11/20/2018	USDHKD	11:30:00 AM					N/A
11/20/2018	USDHKD	1:30:00 PM					N/A
11/20/2018	USDHKD	3:30:00 PM					N/A
11/20/2018	USDHUF	9:30:00 AM	280.13	280.56			N/A
11/20/2018	USDHUF	11:30:00 AM	281.24	281.68			N/A
11/20/2018	USDHUF	1:30:00 PM	280.75	281.21			N/A
11/20/2018	USDHUF	3:30:00 PM	281.13	281.49			N/A
11/20/2018	USDJPY	9:30:00 AM	112.5	112.48			N/A
11/20/2018	USDJPY	11:30:00 AM	112.378	112.376			N/A
11/20/2018	USDJPY	1:30:00 PM	112.463	112.452			N/A
11/20/2018	USDJPY	3:30:00 PM	112.365	112.353			N/A
11/20/2018	USDMXN	9:30:00 AM	20.363	20.371			N/A
11/20/2018	USDMXN	11:30:00 AM	20.38	20.384			N/A
11/20/2018	USDMXN	1:30:00 PM	20.4	20.4			N/A
11/20/2018	USDMXN	3:30:00 PM	20.41	20.414			N/A
11/20/2018	USDNOK	9:30:00 AM	8.4674	8.4749			N/A
11/20/2018	USDNOK	11:30:00 AM	8.4874	8.4941			N/A
11/20/2018	USDNOK	1:30:00 PM	8.4872	8.4954			N/A
11/20/2018	USDNOK	3:30:00 PM	8.509	8.5146			N/A
11/20/2018	USDPLN	9:30:00 AM	3.7791	3.7801			N/A
11/20/2018	USDPLN	11:30:00 AM	3.791	3.7918			N/A
11/20/2018	USDPLN	1:30:00 PM	3.7816	3.7822			N/A
11/20/2018	USDPLN	3:30:00 PM	3.7833	3.783			N/A
11/20/2018	USDRUR	9:30:00 AM					N/A
11/20/2018	USDRUR	11:30:00 AM	65.489	65.88			N/A
11/20/2018	USDRUR	1:30:00 PM	65.5	65.874			N/A

11/20/2018	USDRUR	3:30:00 PM	65.536	65.869			N/A
11/20/2018	USDSEK	9:30:00 AM	9.0012	9.0049			N/A
11/20/2018	USDSEK	11:30:00 AM	9.0131	9.0167			N/A
11/20/2018	USDSEK	1:30:00 PM	9.0161	9.0194			N/A
11/20/2018	USDSEK	3:30:00 PM	9.0317	9.0325			N/A
11/20/2018	USDSGD	9:30:00 AM	1.3716	1.372			N/A
11/20/2018	USDSGD	11:30:00 AM	1.3719	1.3723			N/A
11/20/2018	USDSGD	1:30:00 PM	1.3722	1.3726			N/A
11/20/2018	USDSGD	3:30:00 PM	1.3724	1.3727			N/A
11/20/2018	USDZAR	9:30:00 AM	14.0277	14.0372			N/A
11/20/2018	USDZAR	11:30:00 AM	14.0583	14.0676			N/A
11/20/2018	USDZAR	1:30:00 PM	14.0538	14.0622			N/A
11/20/2018	USDZAR	3:30:00 PM	14.0543	14.0689			N/A
11/20/2018	XAUUSD	9:30:00 AM	1224.92	1224.98			N/A
11/20/2018	XAUUSD	11:30:00 AM	1224.52	1224.67			N/A
11/20/2018	XAUUSD	1:30:00 PM	1223.59	1223.63			N/A
11/20/2018	XAUUSD	3:30:00 PM	1228.15	1228.05			N/A
11/20/2018	ZARJPY	9:30:00 AM	7.97	8.01			N/A
11/20/2018	ZARJPY	11:30:00 AM					N/A
11/20/2018	ZARJPY	1:30:00 PM					N/A
11/20/2018	ZARJPY	3:30:00 PM					N/A
11/21/2018	#AA	9:30:00 AM					N/A
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11/21/2018	#AA	1:30:00 PM					N/A
11/21/2018	#AA	3:30:00 PM					N/A
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11/21/2018	#AMZN	9:30:00 AM					N/A

11/21/2018	#AMZN	11:30:00 AM					N/A
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11/21/2018	#AMZN	3:30:00 PM					N/A
11/21/2018	#AXP	9:30:00 AM					N/A
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11/21/2018	#AXP	3:30:00 PM					N/A
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11/21/2018	#BABA	3:30:00 PM					N/A
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11/21/2018	#BIDU	3:30:00 PM					N/A
11/21/2018	#BK	9:30:00 AM					N/A
11/21/2018	#BK	11:30:00 AM					N/A
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11/21/2018	#BK	3:30:00 PM					N/A
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11/21/2018	#C	1:30:00 PM					N/A

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11/21/2018	#CAT	3:30:00 PM					N/A
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11/21/2018	#CVX	3:30:00 PM					N/A
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11/21/2018	#DD	3:30:00 PM					N/A
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11/21/2018	#DIS	11:30:00 AM					N/A
11/21/2018	#DIS	1:30:00 PM					N/A
11/21/2018	#DIS	3:30:00 PM					N/A
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11/21/2018	#DWDP	1:30:00 PM					N/A
11/21/2018	#DWDP	3:30:00 PM					N/A
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11/21/2018	#EBAY	3:30:00 PM					N/A
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11/21/2018	#FSLR	3:30:00 PM					N/A
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11/21/2018	AUDCAD	1:30:00 PM	0.96192	0.96233			N/A
11/21/2018	AUDCAD	3:30:00 PM	0.96415	0.96438			N/A
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11/21/2018	AUDCHF	1:30:00 PM	0.71952	0.71982			N/A
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11/21/2018	AUDCZK	9:30:00 AM	16.509	16.524			N/A
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11/21/2018	AUDCZK	1:30:00 PM	16.498	16.506			N/A
11/21/2018	AUDCZK	3:30:00 PM	16.537	16.543			N/A
11/21/2018	AUDDKK	9:30:00 AM	4.7358	4.7398			N/A

11/21/2018	AUDDKK	11:30:00 AM	4.7427	4.7465			N/A
11/21/2018	AUDDKK	1:30:00 PM	4.7362	4.7387			N/A
11/21/2018	AUDDKK	3:30:00 PM	4.7455	4.7483			N/A
11/21/2018	AUDHKD	9:30:00 AM	5.6638	5.6676			N/A
11/21/2018	AUDHKD	11:30:00 AM	5.6689	5.6714			N/A
11/21/2018	AUDHKD	1:30:00 PM	5.6724	5.6754			N/A
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11/21/2018	AUDHUF	1:30:00 PM	204.01	204.16			N/A
11/21/2018	AUDHUF	3:30:00 PM	204.42	204.58			N/A
11/21/2018	AUDJPY	9:30:00 AM	81.658	81.693			N/A
11/21/2018	AUDJPY	11:30:00 AM	81.764	81.804			N/A
11/21/2018	AUDJPY	1:30:00 PM	81.863	81.906			N/A
11/21/2018	AUDJPY	3:30:00 PM	82.002	82.038			N/A
11/21/2018	AUDMXN	9:30:00 AM	14.711	14.7151			N/A
11/21/2018	AUDMXN	11:30:00 AM	14.717	14.7231			N/A
11/21/2018	AUDMXN	1:30:00 PM	14.7387	14.7458			N/A
11/21/2018	AUDMXN	3:30:00 PM	14.7101	14.7122			N/A
11/21/2018	AUDNOK	9:30:00 AM	6.1832	6.1886			N/A
11/21/2018	AUDNOK	11:30:00 AM	6.1888	6.1924			N/A
11/21/2018	AUDNOK	1:30:00 PM	6.1771	6.1797			N/A
11/21/2018	AUDNOK	3:30:00 PM	6.1885	6.1919			N/A
11/21/2018	AUDNZD	9:30:00 AM	1.06129	1.06202			N/A
11/21/2018	AUDNZD	11:30:00 AM	1.06102	1.06161			N/A
11/21/2018	AUDNZD	1:30:00 PM	1.06065	1.06108			N/A
11/21/2018	AUDNZD	3:30:00 PM	1.06088	1.06138			N/A
11/21/2018	AUDPLN	9:30:00 AM	2.733	2.736			N/A
11/21/2018	AUDPLN	11:30:00 AM	2.736	2.7386			N/A
11/21/2018	AUDPLN	1:30:00 PM	2.7302	2.7322			N/A
11/21/2018	AUDPLN	3:30:00 PM	2.7355	2.7377			N/A
11/21/2018	AUDSEK	9:30:00 AM	6.5593	6.5623			N/A
11/21/2018	AUDSEK	11:30:00 AM	6.5703	6.574			N/A
11/21/2018	AUDSEK	1:30:00 PM	6.5559	6.5558			N/A
11/21/2018	AUDSEK	3:30:00 PM	6.5617	6.563			N/A
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11/21/2018	AUDUSD	3:30:00 PM	0.72644	0.72599			N/A
11/21/2018	AUDZAR	9:30:00 AM	10.1501	10.1565			N/A
11/21/2018	AUDZAR	11:30:00 AM	10.156	10.1662			N/A
11/21/2018	AUDZAR	1:30:00 PM	10.117	10.1267			N/A
11/21/2018	AUDZAR	3:30:00 PM	10.1056	10.1116			N/A
11/21/2018	CADCHF	9:30:00 AM	0.74822	0.74889			N/A
11/21/2018	CADCHF	11:30:00 AM	0.7482	0.74885			N/A
11/21/2018	CADCHF	1:30:00 PM	0.74775	0.74825			N/A

11/21/2018	CADCHF	3:30:00 PM	0.74801	0.74846			N/A
11/21/2018	CADCZK	9:30:00 AM					N/A
11/21/2018	CADCZK	11:30:00 AM	17.186	17.196			N/A
11/21/2018	CADCZK	1:30:00 PM	17.15	17.162			N/A
11/21/2018	CADCZK	3:30:00 PM	17.153	17.164			N/A
11/21/2018	CADDDKK	9:30:00 AM					N/A
11/21/2018	CADDDKK	11:30:00 AM	4.93	4.933			N/A
11/21/2018	CADDDKK	1:30:00 PM	4.923	4.927			N/A
11/21/2018	CADDDKK	3:30:00 PM	4.923	4.926			N/A
11/21/2018	CADHKD	9:30:00 AM	5.891	5.8946			N/A
11/21/2018	CADHKD	11:30:00 AM	5.8922	5.8961			N/A
11/21/2018	CADHKD	1:30:00 PM	5.8973	5.9012			N/A
11/21/2018	CADHKD	3:30:00 PM	5.8975	5.9003			N/A
11/21/2018	CADHUF	9:30:00 AM	212.01	212.14			N/A
11/21/2018	CADHUF	11:30:00 AM	212.32	212.43			N/A
11/21/2018	CADHUF	1:30:00 PM	212.13	212.23			N/A
11/21/2018	CADHUF	3:30:00 PM	212.14	212.22			N/A
11/21/2018	CADJPY	9:30:00 AM	84.91	84.949			N/A
11/21/2018	CADJPY	11:30:00 AM	84.964	85.02			N/A
11/21/2018	CADJPY	1:30:00 PM	85.078	85.136			N/A
11/21/2018	CADJPY	3:30:00 PM	85.043	85.088			N/A
11/21/2018	CADMXN	9:30:00 AM	15.3026	15.3066			N/A
11/21/2018	CADMXN	11:30:00 AM	15.297	15.3062			N/A
11/21/2018	CADMXN	1:30:00 PM	15.326	15.3307			N/A
11/21/2018	CADMXN	3:30:00 PM	15.262	15.2637			N/A
11/21/2018	CADNOK	9:30:00 AM	6.432	6.4367			N/A
11/21/2018	CADNOK	11:30:00 AM	6.4342	6.4356			N/A
11/21/2018	CADNOK	1:30:00 PM	6.4226	6.4251			N/A
11/21/2018	CADNOK	3:30:00 PM	6.4215	6.4237			N/A
11/21/2018	CADPLN	9:30:00 AM	2.8426	2.8445			N/A
11/21/2018	CADPLN	11:30:00 AM	2.8437	2.8445			N/A
11/21/2018	CADPLN	1:30:00 PM	2.838	2.8399			N/A
11/21/2018	CADPLN	3:30:00 PM	2.8385	2.8383			N/A
11/21/2018	CADSEK	9:30:00 AM	6.8202	6.8241			N/A
11/21/2018	CADSEK	11:30:00 AM	6.8302	6.8304			N/A
11/21/2018	CADSEK	1:30:00 PM	6.813	6.8146			N/A
11/21/2018	CADSEK	3:30:00 PM	6.8043	6.8058			N/A
11/21/2018	CADSGD	9:30:00 AM	1.0338	1.0341			N/A
11/21/2018	CADSGD	11:30:00 AM	1.0339	1.0341			N/A
11/21/2018	CADSGD	1:30:00 PM	1.0344	1.0347			N/A
11/21/2018	CADSGD	3:30:00 PM	1.034	1.0343			N/A
11/21/2018	CADZAR	9:30:00 AM	10.5529	10.5608			N/A
11/21/2018	CADZAR	11:30:00 AM	10.5565	10.5633			N/A
11/21/2018	CADZAR	1:30:00 PM	10.5133	10.527			N/A
11/21/2018	CADZAR	3:30:00 PM	10.4792	10.4855			N/A
11/21/2018	CHFCZK	9:30:00 AM	22.942	22.96			N/A
11/21/2018	CHFCZK	11:30:00 AM	22.962	22.971			N/A
11/21/2018	CHFCZK	1:30:00 PM	22.929	22.944			N/A
11/21/2018	CHFCZK	3:30:00 PM	22.932	22.936			N/A
11/21/2018	CHFDKK	9:30:00 AM	6.58	6.584			N/A

11/21/2018	CHFDKK	11:30:00 AM	6.587	6.589			N/A
11/21/2018	CHFDKK	1:30:00 PM					N/A
11/21/2018	CHFDKK	3:30:00 PM	6.58	6.582			N/A
11/21/2018	CHFHKD	9:30:00 AM	7.8711	7.8748			N/A
11/21/2018	CHFHKD	11:30:00 AM	7.8735	7.876			N/A
11/21/2018	CHFHKD	1:30:00 PM	7.8848	7.8878			N/A
11/21/2018	CHFHKD	3:30:00 PM	7.8827	7.8837			N/A
11/21/2018	CHFHUF	9:30:00 AM	283.15	283.47			N/A
11/21/2018	CHFHUF	11:30:00 AM	283.57	283.87			N/A
11/21/2018	CHFHUF	1:30:00 PM	283.5	283.85			N/A
11/21/2018	CHFHUF	3:30:00 PM	283.4	283.7			N/A
11/21/2018	CHFJPY	9:30:00 AM	113.463	113.461			N/A
11/21/2018	CHFJPY	11:30:00 AM	113.553	113.552			N/A
11/21/2018	CHFJPY	1:30:00 PM	113.78	113.794			N/A
11/21/2018	CHFJPY	3:30:00 PM	113.689	113.702			N/A
11/21/2018	CHFMXN	9:30:00 AM	20.4415	20.4474			N/A
11/21/2018	CHFMXN	11:30:00 AM	20.4343	20.4484			N/A
11/21/2018	CHFMXN	1:30:00 PM	20.489	20.4953			N/A
11/21/2018	CHFMXN	3:30:00 PM	20.3941	20.3985			N/A
11/21/2018	CHFNOK	9:30:00 AM	8.5915	8.5996			N/A
11/21/2018	CHFNOK	11:30:00 AM	8.5956	8.5994			N/A
11/21/2018	CHFNOK	1:30:00 PM	8.5858	8.5917			N/A
11/21/2018	CHFNOK	3:30:00 PM	8.584	8.5861			N/A
11/21/2018	CHFPLN	9:30:00 AM	3.7971	3.7998			N/A
11/21/2018	CHFPLN	11:30:00 AM	3.7991	3.801			N/A
11/21/2018	CHFPLN	1:30:00 PM	3.7938	3.7963			N/A
11/21/2018	CHFPLN	3:30:00 PM	3.7924	3.7939			N/A
11/21/2018	CHFSEK	9:30:00 AM	9.1128	9.1169			N/A
11/21/2018	CHFSEK	11:30:00 AM	9.1265	9.126			N/A
11/21/2018	CHFSEK	1:30:00 PM	9.1101	9.1118			N/A
11/21/2018	CHFSEK	3:30:00 PM	9.0969	9.0979			N/A
11/21/2018	CHFSGD	9:30:00 AM	1.3809	1.3814			N/A
11/21/2018	CHFSGD	11:30:00 AM	1.3813	1.3816			N/A
11/21/2018	CHFSGD	1:30:00 PM	1.3828	1.3831			N/A
11/21/2018	CHFSGD	3:30:00 PM	1.3814	1.3816			N/A
11/21/2018	CHFZAR	9:30:00 AM	14.1018	14.104			N/A
11/21/2018	CHFZAR	11:30:00 AM	14.1076	14.1107			N/A
11/21/2018	CHFZAR	1:30:00 PM	14.0592	14.0669			N/A
11/21/2018	CHFZAR	3:30:00 PM	14.0072	14.0104			N/A
11/21/2018	CZKJPY	9:30:00 AM	4.943	4.946			N/A
11/21/2018	CZKJPY	11:30:00 AM	4.944	4.946			N/A
11/21/2018	CZKJPY	1:30:00 PM	4.96	4.963			N/A
11/21/2018	CZKJPY	3:30:00 PM	4.957	4.959			N/A
11/21/2018	DKKJPY	9:30:00 AM	17.24	17.25			N/A
11/21/2018	DKKJPY	11:30:00 AM	17.24	17.25			N/A
11/21/2018	DKKJPY	1:30:00 PM					N/A
11/21/2018	DKKJPY	3:30:00 PM	17.28	17.29			N/A
11/21/2018	EURAUD	9:30:00 AM	1.5749	1.5746			N/A
11/21/2018	EURAUD	11:30:00 AM	1.57259	1.57228			N/A
11/21/2018	EURAUD	1:30:00 PM	1.57524	1.57432			N/A

11/21/2018	EURAUD	3:30:00 PM	1.57207	1.57121			N/A
11/21/2018	EURCAD	9:30:00 AM	1.51471	1.51512			N/A
11/21/2018	EURCAD	11:30:00 AM	1.51352	1.51352			N/A
11/21/2018	EURCAD	1:30:00 PM	1.51549	1.51568			N/A
11/21/2018	EURCAD	3:30:00 PM	1.5157	1.51573			N/A
11/21/2018	EURCHF	9:30:00 AM	1.13379	1.13393			N/A
11/21/2018	EURCHF	11:30:00 AM	1.13306	1.13277			N/A
11/21/2018	EURCHF	1:30:00 PM	1.13354	1.13352			N/A
11/21/2018	EURCHF	3:30:00 PM	1.13388	1.13419			N/A
11/21/2018	EURCZK	9:30:00 AM	26.005	26.044			N/A
11/21/2018	EURCZK	11:30:00 AM	26.001	26.036			N/A
11/21/2018	EURCZK	1:30:00 PM	25.976	26.014			N/A
11/21/2018	EURCZK	3:30:00 PM	25.992	26.022			N/A
11/21/2018	EURDKK	9:30:00 AM	7.4619	7.463			N/A
11/21/2018	EURDKK	11:30:00 AM	7.4611	7.4624			N/A
11/21/2018	EURDKK	1:30:00 PM	7.4612	7.4623			N/A
11/21/2018	EURDKK	3:30:00 PM	7.4605	7.4617			N/A
11/21/2018	EURGBP	9:30:00 AM	0.88954	0.88947			N/A
11/21/2018	EURGBP	11:30:00 AM	0.89022	0.89011			N/A
11/21/2018	EURGBP	1:30:00 PM	0.89133	0.89109			N/A
11/21/2018	EURGBP	3:30:00 PM	0.89147	0.89118			N/A
11/21/2018	EURHKD	9:30:00 AM	8.9234	8.9284			N/A
11/21/2018	EURHKD	11:30:00 AM	8.9199	8.9193			N/A
11/21/2018	EURHKD	1:30:00 PM	8.9369	8.9391			N/A
11/21/2018	EURHKD	3:30:00 PM	8.9383	8.9392			N/A
11/21/2018	EURHUF	9:30:00 AM	320.92	321.6			N/A
11/21/2018	EURHUF	11:30:00 AM	321.09	321.82			N/A
11/21/2018	EURHUF	1:30:00 PM	321.23	321.96			N/A
11/21/2018	EURHUF	3:30:00 PM	321.23	321.95			N/A
11/21/2018	EURJPY	9:30:00 AM	128.68	128.643			N/A
11/21/2018	EURJPY	11:30:00 AM	128.695	128.611			N/A
11/21/2018	EURJPY	1:30:00 PM	129.007	128.976			N/A
11/21/2018	EURJPY	3:30:00 PM	128.965	128.913			N/A
11/21/2018	EURMXN	9:30:00 AM	23.1845	23.1909			N/A
11/21/2018	EURMXN	11:30:00 AM	23.1595	23.1691			N/A
11/21/2018	EURMXN	1:30:00 PM	23.2322	23.2357			N/A
11/21/2018	EURMXN	3:30:00 PM	23.1369	23.137			N/A
11/21/2018	EURNOK	9:30:00 AM	9.7397	9.7521			N/A
11/21/2018	EURNOK	11:30:00 AM	9.735	9.7455			N/A
11/21/2018	EURNOK	1:30:00 PM	9.73	9.7408			N/A
11/21/2018	EURNOK	3:30:00 PM	9.7341	9.7394			N/A
11/21/2018	EURNZD	9:30:00 AM	1.67203	1.6726			N/A
11/21/2018	EURNZD	11:30:00 AM	1.66931	1.66936			N/A
11/21/2018	EURNZD	1:30:00 PM	1.67102	1.67121			N/A
11/21/2018	EURNZD	3:30:00 PM	1.66795	1.66829			N/A
11/21/2018	EURPLN	9:30:00 AM	4.3055	4.3081			N/A
11/21/2018	EURPLN	11:30:00 AM	4.3036	4.3066			N/A
11/21/2018	EURPLN	1:30:00 PM	4.3005	4.3033			N/A
11/21/2018	EURPLN	3:30:00 PM	4.301	4.3012			N/A
11/21/2018	EURRUR	9:30:00 AM					N/A

11/21/2018	EURRUR	11:30:00 AM	74.82	75.244			N/A
11/21/2018	EURRUR	1:30:00 PM	74.999	75.41			N/A
11/21/2018	EURRUR	3:30:00 PM	74.894	75.271			N/A
11/21/2018	EURSEK	9:30:00 AM	10.3315	10.3362			N/A
11/21/2018	EURSEK	11:30:00 AM	10.3374	10.3402			N/A
11/21/2018	EURSEK	1:30:00 PM	10.3244	10.3281			N/A
11/21/2018	EURSEK	3:30:00 PM	10.3133	10.3169			N/A
11/21/2018	EURSGD	9:30:00 AM	1.5655	1.5664			N/A
11/21/2018	EURSGD	11:30:00 AM	1.5649	1.565			N/A
11/21/2018	EURSGD	1:30:00 PM	1.5673	1.5678			N/A
11/21/2018	EURSGD	3:30:00 PM	1.5665	1.5668			N/A
11/21/2018	EURUSD	9:30:00 AM	1.13961	1.13965			N/A
11/21/2018	EURUSD	11:30:00 AM	1.13914	1.13844	200	200	N/A
11/21/2018	EURUSD	1:30:00 PM	1.14126	1.1409			N/A
11/21/2018	EURUSD	3:30:00 PM	1.14134	1.14084			N/A
11/21/2018	EURZAR	9:30:00 AM	15.9903	15.9936			N/A
11/21/2018	EURZAR	11:30:00 AM	15.9852	15.9944			N/A
11/21/2018	EURZAR	1:30:00 PM	15.9394	15.9486			N/A
11/21/2018	EURZAR	3:30:00 PM	15.8901	15.8945			N/A
11/21/2018	GBPAUD	9:30:00 AM	1.77066	1.7709			N/A
11/21/2018	GBPAUD	11:30:00 AM	1.76671	1.76709			N/A
11/21/2018	GBPAUD	1:30:00 PM	1.76715	1.76742			N/A
11/21/2018	GBPAUD	3:30:00 PM	1.76375	1.76327			N/A
11/21/2018	GBPCAD	9:30:00 AM	1.70263	1.70315			N/A
11/21/2018	GBPCAD	11:30:00 AM	1.70024	1.70051			N/A
11/21/2018	GBPCAD	1:30:00 PM	1.7004	1.70063			N/A
11/21/2018	GBPCAD	3:30:00 PM	1.70021	1.70041			N/A
11/21/2018	GBPCHF	9:30:00 AM	1.27463	1.2748			N/A
11/21/2018	GBPCHF	11:30:00 AM	1.27277	1.2728			N/A
11/21/2018	GBPCHF	1:30:00 PM	1.27201	1.27192			N/A
11/21/2018	GBPCHF	3:30:00 PM	1.27218	1.2723			N/A
11/21/2018	GBPCZK	9:30:00 AM	29.241	29.257			N/A
11/21/2018	GBPCZK	11:30:00 AM	29.214	29.231			N/A
11/21/2018	GBPCZK	1:30:00 PM	29.162	29.171			N/A
11/21/2018	GBPCZK	3:30:00 PM	29.162	29.179			N/A
11/21/2018	GBPDKK	9:30:00 AM	8.386	8.397			N/A
11/21/2018	GBPDKK	11:30:00 AM	8.379	8.39			N/A
11/21/2018	GBPDKK	1:30:00 PM	8.37	8.379			N/A
11/21/2018	GBPDKK	3:30:00 PM	8.369	8.377			N/A
11/21/2018	GBPHKD	9:30:00 AM	10.0314	10.035			N/A
11/21/2018	GBPHKD	11:30:00 AM	10.0196	10.0207			N/A
11/21/2018	GBPHKD	1:30:00 PM	10.0278	10.0303			N/A
11/21/2018	GBPHKD	3:30:00 PM	10.0259	10.0286			N/A
11/21/2018	GBPHUF	9:30:00 AM	360.82	361.3			N/A
11/21/2018	GBPHUF	11:30:00 AM	360.8	361.2			N/A
11/21/2018	GBPHUF	1:30:00 PM	360.53	360.9			N/A
11/21/2018	GBPHUF	3:30:00 PM	360.51	360.81			N/A
11/21/2018	GBPJPY	9:30:00 AM	144.65	144.616			N/A
11/21/2018	GBPJPY	11:30:00 AM	144.549	144.51			N/A
11/21/2018	GBPJPY	1:30:00 PM	144.746	144.739			N/A

11/21/2018	GBPJPY	3:30:00 PM	144.66	144.631			N/A
11/21/2018	GBPMXN	9:30:00 AM	26.049	26.058			N/A
11/21/2018	GBPMXN	11:30:00 AM	26.0075	26.0129			N/A
11/21/2018	GBPMXN	1:30:00 PM	26.054	26.0592			N/A
11/21/2018	GBPMXN	3:30:00 PM	25.947	25.9354			N/A
11/21/2018	GBPNOK	9:30:00 AM	10.9515	10.9615			N/A
11/21/2018	GBPNOK	11:30:00 AM	10.9381	10.9477			N/A
11/21/2018	GBPNOK	1:30:00 PM	10.9208	10.9263			N/A
11/21/2018	GBPNOK	3:30:00 PM	10.9258	10.9244			N/A
11/21/2018	GBPNZD	9:30:00 AM	1.87997	1.88014			N/A
11/21/2018	GBPNZD	11:30:00 AM	1.87541	1.87555			N/A
11/21/2018	GBPNZD	1:30:00 PM	1.87497	1.87518			N/A
11/21/2018	GBPNZD	3:30:00 PM	1.8715	1.87132			N/A
11/21/2018	GBPPLN	9:30:00 AM	4.8413	4.8427			N/A
11/21/2018	GBPPLN	11:30:00 AM	4.836	4.8369			N/A
11/21/2018	GBPPLN	1:30:00 PM	4.8271	4.8273			N/A
11/21/2018	GBPPLN	3:30:00 PM	4.8268	4.8238			N/A
11/21/2018	GBPSEK	9:30:00 AM	11.6144	11.621			N/A
11/21/2018	GBPSEK	11:30:00 AM	11.6113	11.6191			N/A
11/21/2018	GBPSEK	1:30:00 PM	11.5852	11.5883			N/A
11/21/2018	GBPSEK	3:30:00 PM	11.5702	11.5749			N/A
11/21/2018	GBPSGD	9:30:00 AM	1.7603	1.7608			N/A
11/21/2018	GBPSGD	11:30:00 AM	1.7581	1.7583			N/A
11/21/2018	GBPSGD	1:30:00 PM	1.7589	1.759			N/A
11/21/2018	GBPSGD	3:30:00 PM	1.7576	1.7577			N/A
11/21/2018	GBPUSD	9:30:00 AM	1.2814	1.28124		20	N/A
11/21/2018	GBPUSD	11:30:00 AM	1.27991	1.27931			N/A
11/21/2018	GBPUSD	1:30:00 PM	1.2809	1.28046		200	N/A
11/21/2018	GBPUSD	3:30:00 PM	1.28058	1.2802			N/A
11/21/2018	GBPZAR	9:30:00 AM	17.9719	17.9857			N/A
11/21/2018	GBPZAR	11:30:00 AM	17.9543	17.97			N/A
11/21/2018	GBPZAR	1:30:00 PM	17.8812	17.8999			N/A
11/21/2018	GBPZAR	3:30:00 PM	17.823	17.8355			N/A
11/21/2018	GOLD	9:30:00 AM	1223.15	1223.27			N/A
11/21/2018	GOLD	11:30:00 AM	1224.18	1224.19			N/A
11/21/2018	GOLD	1:30:00 PM	1224.69	1224.28			N/A
11/21/2018	GOLD	3:30:00 PM	1226.28	1225.8			N/A
11/21/2018	HKDJPY	9:30:00 AM					N/A
11/21/2018	HKDJPY	11:30:00 AM					N/A
11/21/2018	HKDJPY	1:30:00 PM					N/A
11/21/2018	HKDJPY	3:30:00 PM					N/A
11/21/2018	HUFJPY	9:30:00 AM	0.4004	0.4007			N/A
11/21/2018	HUFJPY	11:30:00 AM	0.4006	0.4008			N/A
11/21/2018	HUFJPY	1:30:00 PM	0.4011	0.4014			N/A
11/21/2018	HUFJPY	3:30:00 PM	0.4012	0.4015			N/A
11/21/2018	MXNJPY	9:30:00 AM					N/A
11/21/2018	MXNJPY	11:30:00 AM					N/A
11/21/2018	MXNJPY	1:30:00 PM					N/A
11/21/2018	MXNJPY	3:30:00 PM	5.58	5.59			N/A
11/21/2018	NOKJPY	9:30:00 AM					N/A

11/21/2018	NOKJPY	11:30:00 AM	13.19	13.23			N/A
11/21/2018	NOKJPY	1:30:00 PM					N/A
11/21/2018	NOKJPY	3:30:00 PM	13.24	13.27			N/A
11/21/2018	NZDCAD	9:30:00 AM	0.90545	0.90607			N/A
11/21/2018	NZDCAD	11:30:00 AM	0.90631	0.90698			N/A
11/21/2018	NZDCAD	1:30:00 PM	0.90661	0.90714			N/A
11/21/2018	NZDCAD	3:30:00 PM	0.90851	0.90883			N/A
11/21/2018	NZDCHF	9:30:00 AM	0.6777	0.67831			N/A
11/21/2018	NZDCHF	11:30:00 AM	0.67831	0.67894			N/A
11/21/2018	NZDCHF	1:30:00 PM	0.67813	0.67854			N/A
11/21/2018	NZDCHF	3:30:00 PM	0.67958	0.68006			N/A
11/21/2018	NZDCZK	9:30:00 AM	15.551	15.561			N/A
11/21/2018	NZDCZK	11:30:00 AM	15.578	15.586			N/A
11/21/2018	NZDCZK	1:30:00 PM	15.55	15.557			N/A
11/21/2018	NZDCZK	3:30:00 PM	15.585	15.588			N/A
11/21/2018	NZDDKK	9:30:00 AM	4.46	4.464			N/A
11/21/2018	NZDDKK	11:30:00 AM	4.468	4.472			N/A
11/21/2018	NZDDKK	1:30:00 PM	4.464	4.467			N/A
11/21/2018	NZDDKK	3:30:00 PM					N/A
11/21/2018	NZDHKD	9:30:00 AM	5.3344	5.3372			N/A
11/21/2018	NZDHKD	11:30:00 AM	5.3406	5.3434			N/A
11/21/2018	NZDHKD	1:30:00 PM	5.3463	5.3483			N/A
11/21/2018	NZDHKD	3:30:00 PM	5.3572	5.3572			N/A
11/21/2018	NZDHUF	9:30:00 AM	191.9	192.15			N/A
11/21/2018	NZDHUF	11:30:00 AM	192.36	192.61			N/A
11/21/2018	NZDHUF	1:30:00 PM	192.23	192.46			N/A
11/21/2018	NZDHUF	3:30:00 PM	192.57	192.81			N/A
11/21/2018	NZDJPY	9:30:00 AM	76.906	76.944			N/A
11/21/2018	NZDJPY	11:30:00 AM	77.027	77.083			N/A
11/21/2018	NZDJPY	1:30:00 PM	77.155	77.2			N/A
11/21/2018	NZDJPY	3:30:00 PM	77.264	77.316			N/A
11/21/2018	NZDMXN	9:30:00 AM	13.8564	13.8569			N/A
11/21/2018	NZDMXN	11:30:00 AM	13.8654	13.8705			N/A
11/21/2018	NZDMXN	1:30:00 PM	13.8937	13.8941			N/A
11/21/2018	NZDMXN	3:30:00 PM	13.862	13.8593			N/A
11/21/2018	NZDNOK	9:30:00 AM	5.8238	5.8271			N/A
11/21/2018	NZDNOK	11:30:00 AM	5.8319	5.8319			N/A
11/21/2018	NZDNOK	1:30:00 PM	5.8218	5.8243			N/A
11/21/2018	NZDNOK	3:30:00 PM	5.8314	5.8338			N/A
11/21/2018	NZDPLN	9:30:00 AM	2.5742	2.5754			N/A
11/21/2018	NZDPLN	11:30:00 AM	2.5772	2.5779			N/A
11/21/2018	NZDPLN	1:30:00 PM	2.5727	2.574			N/A
11/21/2018	NZDPLN	3:30:00 PM	2.5769	2.5783			N/A
11/21/2018	NZDSEK	9:30:00 AM	6.1733	6.1801			N/A
11/21/2018	NZDSEK	11:30:00 AM	6.1888	6.1923			N/A
11/21/2018	NZDSEK	1:30:00 PM	6.1745	6.1791			N/A
11/21/2018	NZDSEK	3:30:00 PM	6.1779	6.1833			N/A
11/21/2018	NZDSGD	9:30:00 AM	0.9363	0.9369			N/A
11/21/2018	NZDSGD	11:30:00 AM	0.9373	0.938			N/A
11/21/2018	NZDSGD	1:30:00 PM	0.938	0.9385			N/A

11/21/2018	NZDSGD	3:30:00 PM	0.9392	0.9397			N/A
11/21/2018	NZDUSD	9:30:00 AM	0.68145	0.68132			N/A
11/21/2018	NZDUSD	11:30:00 AM	0.68223	0.68216			N/A
11/21/2018	NZDUSD	1:30:00 PM	0.68294	0.68275			N/A
11/21/2018	NZDUSD	3:30:00 PM	0.68426	0.68393			N/A
11/21/2018	NZDZAR	9:30:00 AM	9.5533	9.5629			N/A
11/21/2018	NZDZAR	11:30:00 AM	9.567	9.5748			N/A
11/21/2018	NZDZAR	1:30:00 PM	9.5289	9.5432			N/A
11/21/2018	NZDZAR	3:30:00 PM	9.5147	9.5249			N/A
11/21/2018	SEKJPY	9:30:00 AM					N/A
11/21/2018	SEKJPY	11:30:00 AM	12.44	12.46			N/A
11/21/2018	SEKJPY	1:30:00 PM					N/A
11/21/2018	SEKJPY	3:30:00 PM					N/A
11/21/2018	SGDJPY	9:30:00 AM	82.13	82.13			N/A
11/21/2018	SGDJPY	11:30:00 AM	82.16	82.18			N/A
11/21/2018	SGDJPY	1:30:00 PM	82.25	82.27			N/A
11/21/2018	SGDJPY	3:30:00 PM	82.26	82.27			N/A
11/21/2018	SILVER	9:30:00 AM	14.2	14.56			N/A
11/21/2018	SILVER	11:30:00 AM	14.23	14.59			N/A
11/21/2018	SILVER	1:30:00 PM	14.24	14.61			N/A
11/21/2018	SILVER	3:30:00 PM	14.28	14.63			N/A
11/21/2018	USDCAD	9:30:00 AM	1.32893	1.32903			N/A
11/21/2018	USDCAD	11:30:00 AM	1.32888	1.32882			N/A
11/21/2018	USDCAD	1:30:00 PM	1.3279	1.32784			N/A
11/21/2018	USDCAD	3:30:00 PM	1.32804	1.32773			N/A
11/21/2018	USDCHF	9:30:00 AM	0.9948	0.99485			N/A
11/21/2018	USDCHF	11:30:00 AM	0.99475	0.99455			N/A
11/21/2018	USDCHF	1:30:00 PM	0.9933	0.99321			N/A
11/21/2018	USDCHF	3:30:00 PM	0.99353	0.99384			N/A
11/21/2018	USDCZK	9:30:00 AM	22.82	22.844			N/A
11/21/2018	USDCZK	11:30:00 AM	22.838	22.85			N/A
11/21/2018	USDCZK	1:30:00 PM	22.771	22.789			N/A
11/21/2018	USDCZK	3:30:00 PM	22.778	22.793			N/A
11/21/2018	USDDKK	9:30:00 AM	6.5477	6.553			N/A
11/21/2018	USDDKK	11:30:00 AM	6.5542	6.5553			N/A
11/21/2018	USDDKK	1:30:00 PM	6.5401	6.5436			N/A
11/21/2018	USDDKK	3:30:00 PM	6.5402	6.5425			N/A
11/21/2018	USDHKD	9:30:00 AM	7.8312	7.8316			N/A
11/21/2018	USDHKD	11:30:00 AM	7.8312	7.8317			N/A
11/21/2018	USDHKD	1:30:00 PM					N/A
11/21/2018	USDHKD	3:30:00 PM	7.8323	7.8327			N/A
11/21/2018	USDHUF	9:30:00 AM	281.67	282.09			N/A
11/21/2018	USDHUF	11:30:00 AM	282.1	282.42			N/A
11/21/2018	USDHUF	1:30:00 PM	281.6	281.99			N/A
11/21/2018	USDHUF	3:30:00 PM	281.64	281.95			N/A
11/21/2018	USDJPY	9:30:00 AM	112.888	112.848			N/A
11/21/2018	USDJPY	11:30:00 AM	112.942	112.936			N/A
11/21/2018	USDJPY	1:30:00 PM	113.021	113.003			N/A
11/21/2018	USDJPY	3:30:00 PM	112.983	112.933			N/A
11/21/2018	USDMXN	9:30:00 AM	20.341	20.338			N/A

11/21/2018	USDMXN	11:30:00 AM	20.332	20.336			N/A
11/21/2018	USDMXN	1:30:00 PM	20.356	20.353			N/A
11/21/2018	USDMXN	3:30:00 PM	20.27	20.264			N/A
11/21/2018	USDNOK	9:30:00 AM	8.5472	8.5565			N/A
11/21/2018	USDNOK	11:30:00 AM	8.552	8.5539			N/A
11/21/2018	USDNOK	1:30:00 PM	8.5293	8.5342			N/A
11/21/2018	USDNOK	3:30:00 PM	8.5293	8.5329			N/A
11/21/2018	USDPLN	9:30:00 AM	3.778	3.7794			N/A
11/21/2018	USDPLN	11:30:00 AM	3.7805	3.7793			N/A
11/21/2018	USDPLN	1:30:00 PM	3.7694	3.7698			N/A
11/21/2018	USDPLN	3:30:00 PM	3.7696	3.7678			N/A
11/21/2018	USDRUR	9:30:00 AM					N/A
11/21/2018	USDRUR	11:30:00 AM	65.761	66.131			N/A
11/21/2018	USDRUR	1:30:00 PM	65.77	66.147			N/A
11/21/2018	USDRUR	3:30:00 PM	65.679	66.017			N/A
11/21/2018	USDSEK	9:30:00 AM	9.0631	9.0679			N/A
11/21/2018	USDSEK	11:30:00 AM	9.0765	9.0747			N/A
11/21/2018	USDSEK	1:30:00 PM	9.0467	9.0478			N/A
11/21/2018	USDSEK	3:30:00 PM	9.0359	9.0372			N/A
11/21/2018	USDSGD	9:30:00 AM	1.3737	1.3741			N/A
11/21/2018	USDSGD	11:30:00 AM	1.3739	1.3742			N/A
11/21/2018	USDSGD	1:30:00 PM	1.3734	1.3737			N/A
11/21/2018	USDSGD	3:30:00 PM	1.3725	1.3728			N/A
11/21/2018	USDZAR	9:30:00 AM	14.0281	14.0327			N/A
11/21/2018	USDZAR	11:30:00 AM	14.0369	14.0433			N/A
11/21/2018	USDZAR	1:30:00 PM	13.9655	13.977			N/A
11/21/2018	USDZAR	3:30:00 PM	13.922	13.9254			N/A
11/21/2018	XAUUSD	9:30:00 AM	1223.15	1223.26			N/A
11/21/2018	XAUUSD	11:30:00 AM	1224.18	1224.18			N/A
11/21/2018	XAUUSD	1:30:00 PM	1224.69	1224.27			N/A
11/21/2018	XAUUSD	3:30:00 PM	1226.28	1225.8			N/A
11/21/2018	ZARJPY	9:30:00 AM	7.97	8.01			N/A
11/21/2018	ZARJPY	11:30:00 AM	7.99	8.03			N/A
11/21/2018	ZARJPY	1:30:00 PM					N/A
11/21/2018	ZARJPY	3:30:00 PM	8.06	8.08			N/A
11/22/2018	#AA	9:30:00 AM					N/A
11/22/2018	#AA	11:30:00 AM					N/A
11/22/2018	#AA	1:30:00 PM					N/A
11/22/2018	#AA	3:30:00 PM					N/A
11/22/2018	#AABA	9:30:00 AM					N/A
11/22/2018	#AABA	11:30:00 AM					N/A
11/22/2018	#AABA	1:30:00 PM					N/A
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11/22/2018	#AAPL	1:30:00 PM					N/A

11/22/2018	#AAPL	3:30:00 PM					N/A
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11/22/2018	#AMD	1:30:00 PM					N/A
11/22/2018	#AMD	3:30:00 PM					N/A
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11/22/2018	#BIDU	3:30:00 PM					N/A
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11/22/2018	#BTA	3:30:00 PM					N/A
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11/22/2018	#CAT	3:30:00 PM					N/A
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11/22/2018	#CHL	3:30:00 PM					N/A
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11/22/2018	#CMCSA	3:30:00 PM					N/A
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11/22/2018	#CSCO	1:30:00 PM					N/A
11/22/2018	#CSCO	3:30:00 PM					N/A
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11/22/2018	#CVX	3:30:00 PM					N/A
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11/22/2018	#EBAY	3:30:00 PM					N/A
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11/22/2018	#GE	3:30:00 PM					N/A
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11/22/2018	#GILD	3:30:00 PM					N/A
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11/22/2018	AUDCZK	1:30:00 PM	16.509	16.526			N/A
11/22/2018	AUDCZK	3:30:00 PM	16.519	16.537			N/A
11/22/2018	AUDDKK	9:30:00 AM	4.7417	4.7464			N/A
11/22/2018	AUDDKK	11:30:00 AM	4.7368	4.7404			N/A
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11/22/2018	AUDDKK	3:30:00 PM	4.7447	4.7492			N/A
11/22/2018	AUDHKD	9:30:00 AM	5.6775	5.6797			N/A
11/22/2018	AUDHKD	11:30:00 AM	5.668	5.6715			N/A
11/22/2018	AUDHKD	1:30:00 PM	5.6768	5.6793			N/A
11/22/2018	AUDHKD	3:30:00 PM	5.6779	5.6819			N/A
11/22/2018	AUDHUF	9:30:00 AM	204.37	204.6			N/A
11/22/2018	AUDHUF	11:30:00 AM	204.08	204.19			N/A
11/22/2018	AUDHUF	1:30:00 PM	204.21	204.44			N/A
11/22/2018	AUDHUF	3:30:00 PM	204.28	204.51			N/A
11/22/2018	AUDJPY	9:30:00 AM	81.925	81.987			N/A
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11/22/2018	AUDJPY	3:30:00 PM	81.913	81.988			N/A
11/22/2018	AUDMXN	9:30:00 AM	14.658	14.6675			N/A
11/22/2018	AUDMXN	11:30:00 AM	14.6748	14.6779			N/A
11/22/2018	AUDMXN	1:30:00 PM	14.6702	14.6797			N/A
11/22/2018	AUDMXN	3:30:00 PM	14.6551	14.662			N/A
11/22/2018	AUDNOK	9:30:00 AM	6.1703	6.1759			N/A
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11/22/2018	AUDNOK	3:30:00 PM	6.1907	6.1966			N/A
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11/22/2018	AUDNZD	1:30:00 PM	1.06467	1.06535			N/A
11/22/2018	AUDNZD	3:30:00 PM	1.0651	1.06581			N/A
11/22/2018	AUDPLN	9:30:00 AM	2.7321	2.7348			N/A
11/22/2018	AUDPLN	11:30:00 AM	2.7331	2.7356			N/A
11/22/2018	AUDPLN	1:30:00 PM	2.7333	2.7364			N/A
11/22/2018	AUDPLN	3:30:00 PM	2.7326	2.7356			N/A
11/22/2018	AUDSEK	9:30:00 AM	6.5462	6.5498			N/A
11/22/2018	AUDSEK	11:30:00 AM	6.5499	6.5515			N/A
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11/22/2018	AUDSEK	3:30:00 PM	6.5562	6.5584			N/A
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11/22/2018	AUDUSD	3:30:00 PM	0.72555	0.72557			N/A
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11/22/2018	CADCHF	1:30:00 PM	0.75129	0.752			N/A
11/22/2018	CADCHF	3:30:00 PM	0.75249	0.75319			N/A
11/22/2018	CADCZK	9:30:00 AM	17.232	17.25			N/A
11/22/2018	CADCZK	11:30:00 AM	17.215	17.224			N/A
11/22/2018	CADCZK	1:30:00 PM	17.212	17.228			N/A
11/22/2018	CADCZK	3:30:00 PM	17.232	17.249			N/A
11/22/2018	CADDKK	9:30:00 AM					N/A
11/22/2018	CADDKK	11:30:00 AM					N/A
11/22/2018	CADDKK	1:30:00 PM	4.943	4.947			N/A
11/22/2018	CADDKK	3:30:00 PM					N/A
11/22/2018	CADHKD	9:30:00 AM	5.921	5.9242			N/A
11/22/2018	CADHKD	11:30:00 AM	5.913	5.9168			N/A
11/22/2018	CADHKD	1:30:00 PM	5.9181	5.9211			N/A
11/22/2018	CADHKD	3:30:00 PM	5.9231	5.9271			N/A
11/22/2018	CADHUF	9:30:00 AM	213.17	213.34			N/A
11/22/2018	CADHUF	11:30:00 AM	212.94	212.95			N/A
11/22/2018	CADHUF	1:30:00 PM	212.94	213.09			N/A
11/22/2018	CADHUF	3:30:00 PM	213.11	213.27			N/A
11/22/2018	CADJPY	9:30:00 AM	85.42	85.495			N/A
11/22/2018	CADJPY	11:30:00 AM	85.243	85.305			N/A
11/22/2018	CADJPY	1:30:00 PM	85.365	85.414			N/A
11/22/2018	CADJPY	3:30:00 PM	85.423	85.492			N/A
11/22/2018	CADMXN	9:30:00 AM	15.2891	15.3006			N/A
11/22/2018	CADMXN	11:30:00 AM	15.3104	15.317			N/A
11/22/2018	CADMXN	1:30:00 PM	15.2974	15.3063			N/A
11/22/2018	CADMXN	3:30:00 PM	15.2866	15.2954			N/A
11/22/2018	CADNOK	9:30:00 AM	6.4366	6.4401			N/A
11/22/2018	CADNOK	11:30:00 AM	6.453	6.4579			N/A
11/22/2018	CADNOK	1:30:00 PM	6.4588	6.4628			N/A
11/22/2018	CADNOK	3:30:00 PM	6.4582	6.463			N/A
11/22/2018	CADPLN	9:30:00 AM	2.8491	2.8509			N/A
11/22/2018	CADPLN	11:30:00 AM	2.8509	2.8528			N/A
11/22/2018	CADPLN	1:30:00 PM	2.8497	2.8515			N/A
11/22/2018	CADPLN	3:30:00 PM	2.8504	2.8523			N/A
11/22/2018	CADSEK	9:30:00 AM	6.8249	6.8288			N/A
11/22/2018	CADSEK	11:30:00 AM	6.8306	6.8336			N/A
11/22/2018	CADSEK	1:30:00 PM	6.8334	6.8356			N/A

11/22/2018	CADSEK	3:30:00 PM	6.8372	6.8397			N/A
11/22/2018	CADSGD	9:30:00 AM	1.0382	1.0385			N/A
11/22/2018	CADSGD	11:30:00 AM	1.0374	1.0377			N/A
11/22/2018	CADSGD	1:30:00 PM	1.0375	1.0379			N/A
11/22/2018	CADSGD	3:30:00 PM	1.0383	1.0386			N/A
11/22/2018	CADZAR	9:30:00 AM	10.5023	10.5185			N/A
11/22/2018	CADZAR	11:30:00 AM	10.5243	10.5405			N/A
11/22/2018	CADZAR	1:30:00 PM	10.4845	10.492			N/A
11/22/2018	CADZAR	3:30:00 PM	10.4044	10.4138			N/A
11/22/2018	CHFCZK	9:30:00 AM	22.94	22.957			N/A
11/22/2018	CHFCZK	11:30:00 AM	22.938	22.948			N/A
11/22/2018	CHFCZK	1:30:00 PM	22.904	22.919			N/A
11/22/2018	CHFCZK	3:30:00 PM	22.894	22.911			N/A
11/22/2018	CHFDKK	9:30:00 AM					N/A
11/22/2018	CHFDKK	11:30:00 AM	6.583	6.587			N/A
11/22/2018	CHFDKK	1:30:00 PM	6.576	6.58			N/A
11/22/2018	CHFDKK	3:30:00 PM	6.574	6.578			N/A
11/22/2018	CHFHKD	9:30:00 AM	7.8822	7.8846			N/A
11/22/2018	CHFHKD	11:30:00 AM	7.8786	7.8822			N/A
11/22/2018	CHFHKD	1:30:00 PM	7.8749	7.8774			N/A
11/22/2018	CHFHKD	3:30:00 PM	7.8682	7.872			N/A
11/22/2018	CHFHUF	9:30:00 AM	283.67	284.06			N/A
11/22/2018	CHFHUF	11:30:00 AM	283.62	283.89			N/A
11/22/2018	CHFHUF	1:30:00 PM	283.23	283.61			N/A
11/22/2018	CHFHUF	3:30:00 PM	283.01	283.41			N/A
11/22/2018	CHFJPY	9:30:00 AM	113.713	113.746			N/A
11/22/2018	CHFJPY	11:30:00 AM	113.587	113.611			N/A
11/22/2018	CHFJPY	1:30:00 PM	113.593	113.608			N/A
11/22/2018	CHFJPY	3:30:00 PM	113.496	113.515			N/A
11/22/2018	CHFMXN	9:30:00 AM	20.3472	20.3624			N/A
11/22/2018	CHFMXN	11:30:00 AM	20.3959	20.407			N/A
11/22/2018	CHFMXN	1:30:00 PM	20.3495	20.3641			N/A
11/22/2018	CHFMXN	3:30:00 PM	20.3033	20.3182			N/A
11/22/2018	CHFNOK	9:30:00 AM	8.5665	8.5733			N/A
11/22/2018	CHFNOK	11:30:00 AM	8.5983	8.6046			N/A
11/22/2018	CHFNOK	1:30:00 PM	8.5935	8.5996			N/A
11/22/2018	CHFNOK	3:30:00 PM	8.5779	8.586			N/A
11/22/2018	CHFPLN	9:30:00 AM	3.7919	3.7946			N/A
11/22/2018	CHFPLN	11:30:00 AM	3.798	3.8014			N/A
11/22/2018	CHFPLN	1:30:00 PM	3.791	3.7939			N/A
11/22/2018	CHFPLN	3:30:00 PM	3.7857	3.7889			N/A
11/22/2018	CHFSEK	9:30:00 AM	9.0858	9.0895			N/A
11/22/2018	CHFSEK	11:30:00 AM	9.1021	9.1051			N/A
11/22/2018	CHFSEK	1:30:00 PM	9.0944	9.0952			N/A
11/22/2018	CHFSEK	3:30:00 PM	9.0833	9.0858			N/A
11/22/2018	CHFSGD	9:30:00 AM	1.3816	1.3821			N/A
11/22/2018	CHFSGD	11:30:00 AM	1.3821	1.3825			N/A
11/22/2018	CHFSGD	1:30:00 PM	1.3805	1.3809			N/A
11/22/2018	CHFSGD	3:30:00 PM	1.3792	1.3796			N/A
11/22/2018	CHFZAR	9:30:00 AM	13.984	13.9976			N/A

11/22/2018	CHFZAR	11:30:00 AM	14.0262	14.0398			N/A
11/22/2018	CHFZAR	1:30:00 PM	13.9544	13.9548			N/A
11/22/2018	CHFZAR	3:30:00 PM	13.8239	13.8292			N/A
11/22/2018	CZKJPY	9:30:00 AM	4.956	4.959			N/A
11/22/2018	CZKJPY	11:30:00 AM	4.952	4.954			N/A
11/22/2018	CZKJPY	1:30:00 PM	4.958	4.961			N/A
11/22/2018	CZKJPY	3:30:00 PM	4.956	4.96			N/A
11/22/2018	DKKJPY	9:30:00 AM	17.28	17.29			N/A
11/22/2018	DKKJPY	11:30:00 AM					N/A
11/22/2018	DKKJPY	1:30:00 PM					N/A
11/22/2018	DKKJPY	3:30:00 PM					N/A
11/22/2018	EURAUD	9:30:00 AM	1.57254	1.57248			N/A
11/22/2018	EURAUD	11:30:00 AM	1.57443	1.57414			N/A
11/22/2018	EURAUD	1:30:00 PM	1.57289	1.57278			N/A
11/22/2018	EURAUD	3:30:00 PM	1.57164	1.5715			N/A
11/22/2018	EURCAD	9:30:00 AM	1.50828	1.50889			N/A
11/22/2018	EURCAD	11:30:00 AM	1.5098	1.51017			N/A
11/22/2018	EURCAD	1:30:00 PM	1.50922	1.50967			N/A
11/22/2018	EURCAD	3:30:00 PM	1.50734	1.50781			N/A
11/22/2018	EURCHF	9:30:00 AM	1.13332	1.13344			N/A
11/22/2018	EURCHF	11:30:00 AM	1.13327	1.13332			N/A
11/22/2018	EURCHF	1:30:00 PM	1.13444	1.13448			N/A
11/22/2018	EURCHF	3:30:00 PM	1.13449	1.13517			N/A
11/22/2018	EURCZK	9:30:00 AM	25.99	26.027			N/A
11/22/2018	EURCZK	11:30:00 AM	25.985	26.019			N/A
11/22/2018	EURCZK	1:30:00 PM					N/A
11/22/2018	EURCZK	3:30:00 PM	25.97	26.006			N/A
11/22/2018	EURDKK	9:30:00 AM	7.461	7.4622			N/A
11/22/2018	EURDKK	11:30:00 AM	7.4615	7.4628			N/A
11/22/2018	EURDKK	1:30:00 PM	7.461	7.4622			N/A
11/22/2018	EURDKK	3:30:00 PM	7.4608	7.4619			N/A
11/22/2018	EURGBP	9:30:00 AM	0.89146	0.8916			N/A
11/22/2018	EURGBP	11:30:00 AM	0.89192	0.89203			N/A
11/22/2018	EURGBP	1:30:00 PM	0.88651	0.88652			N/A
11/22/2018	EURGBP	3:30:00 PM	0.88604	0.88599			N/A
11/22/2018	EURHKD	9:30:00 AM	8.9262	8.9313			N/A
11/22/2018	EURHKD	11:30:00 AM	8.9275	8.9312			N/A
11/22/2018	EURHKD	1:30:00 PM	8.9333	8.9361			N/A
11/22/2018	EURHKD	3:30:00 PM	8.9286	8.933			N/A
11/22/2018	EURHUF	9:30:00 AM	321.36	322.06			N/A
11/22/2018	EURHUF	11:30:00 AM	321.32	322.05			N/A
11/22/2018	EURHUF	1:30:00 PM	321.18	321.9			N/A
11/22/2018	EURHUF	3:30:00 PM	321.04	321.78			N/A
11/22/2018	EURJPY	9:30:00 AM	128.913	128.898			N/A
11/22/2018	EURJPY	11:30:00 AM	128.76	128.739			N/A
11/22/2018	EURJPY	1:30:00 PM	128.907	128.861			N/A
11/22/2018	EURJPY	3:30:00 PM	128.833	128.813			N/A
11/22/2018	EURMXN	9:30:00 AM	23.0616	23.081			N/A
11/22/2018	EURMXN	11:30:00 AM	23.1143	23.1276			N/A
11/22/2018	EURMXN	1:30:00 PM	23.0864	23.1046			N/A

11/22/2018	EURMXN	3:30:00 PM	23.0411	23.0593			N/A
11/22/2018	EURNOK	9:30:00 AM	9.7076	9.7184			N/A
11/22/2018	EURNOK	11:30:00 AM	9.7424	9.7527			N/A
11/22/2018	EURNOK	1:30:00 PM	9.7467	9.7575			N/A
11/22/2018	EURNOK	3:30:00 PM	9.7327	9.7453			N/A
11/22/2018	EURNZD	9:30:00 AM	1.67505	1.67578			N/A
11/22/2018	EURNZD	11:30:00 AM	1.67809	1.67872			N/A
11/22/2018	EURNZD	1:30:00 PM	1.67524	1.67593			N/A
11/22/2018	EURNZD	3:30:00 PM	1.67455	1.67541			N/A
11/22/2018	EURPLN	9:30:00 AM	4.2977	4.3005			N/A
11/22/2018	EURPLN	11:30:00 AM	4.3044	4.3076			N/A
11/22/2018	EURPLN	1:30:00 PM	4.3009	4.3035			N/A
11/22/2018	EURPLN	3:30:00 PM	4.2964	4.2997			N/A
11/22/2018	EURRUR	9:30:00 AM					N/A
11/22/2018	EURRUR	11:30:00 AM	74.486	74.917			N/A
11/22/2018	EURRUR	1:30:00 PM	74.471	74.91			N/A
11/22/2018	EURRUR	3:30:00 PM	74.44	74.877			N/A
11/22/2018	EURSEK	9:30:00 AM	10.2967	10.3014			N/A
11/22/2018	EURSEK	11:30:00 AM	10.3143	10.3181			N/A
11/22/2018	EURSEK	1:30:00 PM	10.3153	10.3176			N/A
11/22/2018	EURSEK	3:30:00 PM	10.3062	10.3103			N/A
11/22/2018	EURSGD	9:30:00 AM	1.5658	1.5666			N/A
11/22/2018	EURSGD	11:30:00 AM	1.5662	1.5669			N/A
11/22/2018	EURSGD	1:30:00 PM	1.566	1.5666			N/A
11/22/2018	EURSGD	3:30:00 PM	1.565	1.5658			N/A
11/22/2018	EURUSD	9:30:00 AM	1.14018	1.14018			N/A
11/22/2018	EURUSD	11:30:00 AM	1.14025	1.14011			N/A
11/22/2018	EURUSD	1:30:00 PM	1.1409	1.14063			N/A
11/22/2018	EURUSD	3:30:00 PM	1.14038	1.14028			N/A
11/22/2018	EURZAR	9:30:00 AM	15.8506	15.87			N/A
11/22/2018	EURZAR	11:30:00 AM	15.8997	15.9143			N/A
11/22/2018	EURZAR	1:30:00 PM	15.8334	15.8334			N/A
11/22/2018	EURZAR	3:30:00 PM	15.6876	15.6975			N/A
11/22/2018	GBPAUD	9:30:00 AM	1.76389	1.76467			N/A
11/22/2018	GBPAUD	11:30:00 AM	1.76527	1.76564			N/A
11/22/2018	GBPAUD	1:30:00 PM	1.77423	1.77474			N/A
11/22/2018	GBPAUD	3:30:00 PM	1.77414	1.77426			N/A
11/22/2018	GBPCAD	9:30:00 AM	1.69158	1.69241			N/A
11/22/2018	GBPCAD	11:30:00 AM	1.69228	1.69307			N/A
11/22/2018	GBPCAD	1:30:00 PM	1.70232	1.7027			N/A
11/22/2018	GBPCAD	3:30:00 PM	1.70127	1.70153			N/A
11/22/2018	GBPCHF	9:30:00 AM	1.27103	1.27153			N/A
11/22/2018	GBPCHF	11:30:00 AM	1.27034	1.27073			N/A
11/22/2018	GBPCHF	1:30:00 PM	1.27957	1.27978			N/A
11/22/2018	GBPCHF	3:30:00 PM	1.2806	1.28116			N/A
11/22/2018	GBPCZK	9:30:00 AM	29.155	29.178			N/A
11/22/2018	GBPCZK	11:30:00 AM	29.137	29.147			N/A
11/22/2018	GBPCZK	1:30:00 PM	29.303	29.32			N/A
11/22/2018	GBPCZK	3:30:00 PM	29.32	29.333			N/A
11/22/2018	GBPDKK	9:30:00 AM	8.365	8.377			N/A

11/22/2018	GBPDKK	11:30:00 AM	8.362	8.374			N/A
11/22/2018	GBPDKK	1:30:00 PM	8.413	8.423			N/A
11/22/2018	GBPDKK	3:30:00 PM	8.418	8.428			N/A
11/22/2018	GBPHKD	9:30:00 AM	10.0157	10.0211			N/A
11/22/2018	GBPHKD	11:30:00 AM	10.0072	10.0121			N/A
11/22/2018	GBPHKD	1:30:00 PM	10.0758	10.0783			N/A
11/22/2018	GBPHKD	3:30:00 PM	10.0774	10.0786			N/A
11/22/2018	GBPHUF	9:30:00 AM	360.53	361.02			N/A
11/22/2018	GBPHUF	11:30:00 AM	360.24	360.61			N/A
11/22/2018	GBPHUF	1:30:00 PM	362.36	362.8			N/A
11/22/2018	GBPHUF	3:30:00 PM	362.43	362.83			N/A
11/22/2018	GBPJPY	9:30:00 AM	144.575	144.621			N/A
11/22/2018	GBPJPY	11:30:00 AM	144.332	144.363			N/A
11/22/2018	GBPJPY	1:30:00 PM	145.395	145.369			N/A
11/22/2018	GBPJPY	3:30:00 PM	145.411	145.395			N/A
11/22/2018	GBPMXN	9:30:00 AM	25.8637	25.8765			N/A
11/22/2018	GBPMXN	11:30:00 AM	25.9087	25.9168			N/A
11/22/2018	GBPMXN	1:30:00 PM	26.0365	26.047			N/A
11/22/2018	GBPMXN	3:30:00 PM	26.0017	26.0135			N/A
11/22/2018	GBPNOK	9:30:00 AM	10.8899	10.9			N/A
11/22/2018	GBPNOK	11:30:00 AM	10.9232	10.9335			N/A
11/22/2018	GBPNOK	1:30:00 PM	10.9958	11.0043			N/A
11/22/2018	GBPNOK	3:30:00 PM	10.9876	10.9973			N/A
11/22/2018	GBPNZD	9:30:00 AM	1.87897	1.87966			N/A
11/22/2018	GBPNZD	11:30:00 AM	1.88136	1.88196			N/A
11/22/2018	GBPNZD	1:30:00 PM	1.8898	1.89022			N/A
11/22/2018	GBPNZD	3:30:00 PM	1.8904	1.89061			N/A
11/22/2018	GBPPLN	9:30:00 AM	4.8216	4.8231			N/A
11/22/2018	GBPPLN	11:30:00 AM	4.8267	4.8286			N/A
11/22/2018	GBPPLN	1:30:00 PM	4.8524	4.8533			N/A
11/22/2018	GBPPLN	3:30:00 PM	4.8505	4.8516			N/A
11/22/2018	GBPSEK	9:30:00 AM	11.5473	11.5572			N/A
11/22/2018	GBPSEK	11:30:00 AM	11.5616	11.5698			N/A
11/22/2018	GBPSEK	1:30:00 PM	11.6337	11.6387			N/A
11/22/2018	GBPSEK	3:30:00 PM	11.6309	11.6394			N/A
11/22/2018	GBPSGD	9:30:00 AM	1.7563	1.7572			N/A
11/22/2018	GBPSGD	11:30:00 AM	1.756	1.7566			N/A
11/22/2018	GBPSGD	1:30:00 PM	1.7667	1.7669			N/A
11/22/2018	GBPSGD	3:30:00 PM	1.7667	1.7669			N/A
11/22/2018	GBPUSD	9:30:00 AM	1.27905	1.2791			N/A
11/22/2018	GBPUSD	11:30:00 AM	1.27847	1.27842			N/A
11/22/2018	GBPUSD	1:30:00 PM	1.28719	1.28678			N/A
11/22/2018	GBPUSD	3:30:00 PM	1.2874	1.28693			N/A
11/22/2018	GBPZAR	9:30:00 AM	17.7764	17.8045			N/A
11/22/2018	GBPZAR	11:30:00 AM	17.821	17.846			N/A
11/22/2018	GBPZAR	1:30:00 PM	17.8559	17.8653			N/A
11/22/2018	GBPZAR	3:30:00 PM	17.701	17.7223			N/A
11/22/2018	GOLD	9:30:00 AM	1227.6	1227.82			N/A
11/22/2018	GOLD	11:30:00 AM	1227.21	1227.42			N/A
11/22/2018	GOLD	1:30:00 PM	1228.79	1228.68			N/A

11/22/2018	GOLD	3:30:00 PM	1227.81	1228.01			N/A
11/22/2018	HKDJPY	9:30:00 AM					N/A
11/22/2018	HKDJPY	11:30:00 AM					N/A
11/22/2018	HKDJPY	1:30:00 PM					N/A
11/22/2018	HKDJPY	3:30:00 PM					N/A
11/22/2018	HUFJPY	9:30:00 AM	0.4007	0.401			N/A
11/22/2018	HUFJPY	11:30:00 AM	0.4005	0.4008			N/A
11/22/2018	HUFJPY	1:30:00 PM	0.401	0.4013			N/A
11/22/2018	HUFJPY	3:30:00 PM	0.4009	0.4012			N/A
11/22/2018	MXNJPY	9:30:00 AM					N/A
11/22/2018	MXNJPY	11:30:00 AM					N/A
11/22/2018	MXNJPY	1:30:00 PM					N/A
11/22/2018	MXNJPY	3:30:00 PM					N/A
11/22/2018	NOKJPY	9:30:00 AM	13.26	13.3			N/A
11/22/2018	NOKJPY	11:30:00 AM					N/A
11/22/2018	NOKJPY	1:30:00 PM	13.2	13.24			N/A
11/22/2018	NOKJPY	3:30:00 PM					N/A
11/22/2018	NZDCAD	9:30:00 AM	0.90003	0.90065			N/A
11/22/2018	NZDCAD	11:30:00 AM	0.89922	0.89989			N/A
11/22/2018	NZDCAD	1:30:00 PM	0.90049	0.90108			N/A
11/22/2018	NZDCAD	3:30:00 PM	0.89963	0.90032			N/A
11/22/2018	NZDCHF	9:30:00 AM	0.67612	0.67681			N/A
11/22/2018	NZDCHF	11:30:00 AM	0.67488	0.6755			N/A
11/22/2018	NZDCHF	1:30:00 PM	0.67673	0.67742			N/A
11/22/2018	NZDCHF	3:30:00 PM	0.67717	0.6779			N/A
11/22/2018	NZDCZK	9:30:00 AM	15.514	15.525			N/A
11/22/2018	NZDCZK	11:30:00 AM	15.483	15.488			N/A
11/22/2018	NZDCZK	1:30:00 PM	15.503	15.513			N/A
11/22/2018	NZDCZK	3:30:00 PM					N/A
11/22/2018	NZDDKK	9:30:00 AM	4.451	4.455			N/A
11/22/2018	NZDDKK	11:30:00 AM					N/A
11/22/2018	NZDDKK	1:30:00 PM	4.451	4.455			N/A
11/22/2018	NZDDKK	3:30:00 PM	4.453	4.456			N/A
11/22/2018	NZDHKD	9:30:00 AM	5.3299	5.3316			N/A
11/22/2018	NZDHKD	11:30:00 AM	5.3175	5.3204			N/A
11/22/2018	NZDHKD	1:30:00 PM	5.3295	5.3318			N/A
11/22/2018	NZDHKD	3:30:00 PM	5.3289	5.3318			N/A
11/22/2018	NZDHUF	9:30:00 AM	191.81	192.1			N/A
11/22/2018	NZDHUF	11:30:00 AM	191.42	191.63			N/A
11/22/2018	NZDHUF	1:30:00 PM	191.7	191.96			N/A
11/22/2018	NZDHUF	3:30:00 PM					N/A
11/22/2018	NZDJPY	9:30:00 AM	76.908	76.97			N/A
11/22/2018	NZDJPY	11:30:00 AM	76.674	76.739			N/A
11/22/2018	NZDJPY	1:30:00 PM	76.897	76.942			N/A
11/22/2018	NZDJPY	3:30:00 PM	76.875	76.944			N/A
11/22/2018	NZDMXN	9:30:00 AM	13.7617	13.7673			N/A
11/22/2018	NZDMXN	11:30:00 AM	13.7688	13.7701			N/A
11/22/2018	NZDMXN	1:30:00 PM	13.7752	13.7792			N/A
11/22/2018	NZDMXN	3:30:00 PM	13.7528	13.7581			N/A
11/22/2018	NZDNOK	9:30:00 AM	5.7934	5.7966			N/A

11/22/2018	NZDNOK	11:30:00 AM	5.803	5.8067			N/A
11/22/2018	NZDNOK	1:30:00 PM	5.8163	5.8191			N/A
11/22/2018	NZDNOK	3:30:00 PM	5.8106	5.8143			N/A
11/22/2018	NZDPLN	9:30:00 AM	2.5646	2.5659			N/A
11/22/2018	NZDPLN	11:30:00 AM	2.564	2.5653			N/A
11/22/2018	NZDPLN	1:30:00 PM	2.5661	2.5675			N/A
11/22/2018	NZDPLN	3:30:00 PM	2.5645	2.5659			N/A
11/22/2018	NZDSEK	9:30:00 AM	6.1421	6.1479			N/A
11/22/2018	NZDSEK	11:30:00 AM	6.1404	6.1466			N/A
11/22/2018	NZDSEK	1:30:00 PM	6.1517	6.1566			N/A
11/22/2018	NZDSEK	3:30:00 PM	6.1486	6.1554			N/A
11/22/2018	NZDSGD	9:30:00 AM	0.9346	0.9353			N/A
11/22/2018	NZDSGD	11:30:00 AM	0.9332	0.9338			N/A
11/22/2018	NZDSGD	1:30:00 PM	0.9346	0.9354			N/A
11/22/2018	NZDSGD	3:30:00 PM	0.9342	0.935			N/A
11/22/2018	NZDUSD	9:30:00 AM	0.68049	0.68046			N/A
11/22/2018	NZDUSD	11:30:00 AM	0.67929	0.67931			N/A
11/22/2018	NZDUSD	1:30:00 PM	0.6809	0.68074			N/A
11/22/2018	NZDUSD	3:30:00 PM	0.68076	0.68077			N/A
11/22/2018	NZDZAR	9:30:00 AM	9.4523	9.469			N/A
11/22/2018	NZDZAR	11:30:00 AM	9.4626	9.4795			N/A
11/22/2018	NZDZAR	1:30:00 PM	9.4408	9.4465			N/A
11/22/2018	NZDZAR	3:30:00 PM	9.3585	9.3694			N/A
11/22/2018	SEKJPY	9:30:00 AM					N/A
11/22/2018	SEKJPY	11:30:00 AM					N/A
11/22/2018	SEKJPY	1:30:00 PM	12.5	12.52			N/A
11/22/2018	SEKJPY	3:30:00 PM					N/A
11/22/2018	SGDJPY	9:30:00 AM	82.28	82.31			N/A
11/22/2018	SGDJPY	11:30:00 AM	82.16	82.18			N/A
11/22/2018	SGDJPY	1:30:00 PM	82.26	82.29			N/A
11/22/2018	SGDJPY	3:30:00 PM	82.26	82.29			N/A
11/22/2018	SILVER	9:30:00 AM	14.32	14.69			N/A
11/22/2018	SILVER	11:30:00 AM	14.3	14.67			N/A
11/22/2018	SILVER	1:30:00 PM	14.34	14.71			N/A
11/22/2018	SILVER	3:30:00 PM	14.3	14.67			N/A
11/22/2018	USDCAD	9:30:00 AM	1.32285	1.32295			N/A
11/22/2018	USDCAD	11:30:00 AM	1.32408	1.32406			N/A
11/22/2018	USDCAD	1:30:00 PM	1.32302	1.32295			N/A
11/22/2018	USDCAD	3:30:00 PM	1.3218	1.32188			N/A
11/22/2018	USDCHF	9:30:00 AM	0.99386	0.99395			N/A
11/22/2018	USDCHF	11:30:00 AM	0.99381	0.99377			N/A
11/22/2018	USDCHF	1:30:00 PM	0.99438	0.99435			N/A
11/22/2018	USDCHF	3:30:00 PM	0.99481	0.9954			N/A
11/22/2018	USDCZK	9:30:00 AM	22.794	22.817			N/A
11/22/2018	USDCZK	11:30:00 AM	22.791	22.805			N/A
11/22/2018	USDCZK	1:30:00 PM	22.77	22.79			N/A
11/22/2018	USDCZK	3:30:00 PM	22.777	22.799			N/A
11/22/2018	USDDKK	9:30:00 AM	6.544	6.5491			N/A
11/22/2018	USDDKK	11:30:00 AM	6.5448	6.5492			N/A
11/22/2018	USDDKK	1:30:00 PM	6.5412	6.5449			N/A

11/22/2018	USDDKK	3:30:00 PM	6.5435	6.5485			N/A
11/22/2018	USDHKD	9:30:00 AM					N/A
11/22/2018	USDHKD	11:30:00 AM	7.8304	7.8309			N/A
11/22/2018	USDHKD	1:30:00 PM					N/A
11/22/2018	USDHKD	3:30:00 PM	7.8307	7.8312			N/A
11/22/2018	USDHUF	9:30:00 AM	281.91	282.38			N/A
11/22/2018	USDHUF	11:30:00 AM	281.87	282.32			N/A
11/22/2018	USDHUF	1:30:00 PM	281.63	282.07			N/A
11/22/2018	USDHUF	3:30:00 PM	281.59	282.05			N/A
11/22/2018	USDJPY	9:30:00 AM	113.051	113.053			N/A
11/22/2018	USDJPY	11:30:00 AM	112.911	112.903			N/A
11/22/2018	USDJPY	1:30:00 PM	112.975	112.96			N/A
11/22/2018	USDJPY	3:30:00 PM	112.962	112.965			N/A
11/22/2018	USDMXN	9:30:00 AM	20.229	20.236			N/A
11/22/2018	USDMXN	11:30:00 AM	20.276	20.277			N/A
11/22/2018	USDMXN	1:30:00 PM	20.243	20.245			N/A
11/22/2018	USDMXN	3:30:00 PM	20.209	20.213			N/A
11/22/2018	USDNOK	9:30:00 AM	8.5152	8.5221			N/A
11/22/2018	USDNOK	11:30:00 AM	8.5453	8.5528			N/A
11/22/2018	USDNOK	1:30:00 PM	8.5463	8.5515			N/A
11/22/2018	USDNOK	3:30:00 PM	8.5369	8.5451			N/A
11/22/2018	USDPLN	9:30:00 AM	3.7696	3.7707			N/A
11/22/2018	USDPLN	11:30:00 AM	3.7755	3.7766			N/A
11/22/2018	USDPLN	1:30:00 PM	3.7706	3.7713			N/A
11/22/2018	USDPLN	3:30:00 PM	3.7682	3.7694			N/A
11/22/2018	USDRUR	9:30:00 AM					N/A
11/22/2018	USDRUR	11:30:00 AM	65.396	65.783			N/A
11/22/2018	USDRUR	1:30:00 PM	65.356	65.734			N/A
11/22/2018	USDRUR	3:30:00 PM	65.355	65.749			N/A
11/22/2018	USDSEK	9:30:00 AM	9.028	9.0326			N/A
11/22/2018	USDSEK	11:30:00 AM	9.0442	9.0467			N/A
11/22/2018	USDSEK	1:30:00 PM	9.0408	9.0416			N/A
11/22/2018	USDSEK	3:30:00 PM	9.0363	9.0394			N/A
11/22/2018	USDSGD	9:30:00 AM	1.3732	1.3737			N/A
11/22/2018	USDSGD	11:30:00 AM	1.3735	1.3739			N/A
11/22/2018	USDSGD	1:30:00 PM	1.3727	1.373			N/A
11/22/2018	USDSGD	3:30:00 PM	1.3724	1.3728			N/A
11/22/2018	USDZAR	9:30:00 AM	13.9007	13.9181			N/A
11/22/2018	USDZAR	11:30:00 AM	13.9411	13.9578			N/A
11/22/2018	USDZAR	1:30:00 PM	13.881	13.8757			N/A
11/22/2018	USDZAR	3:30:00 PM	13.7563	13.7637			N/A
11/22/2018	XAUUSD	9:30:00 AM	1227.6	1227.83			N/A
11/22/2018	XAUUSD	11:30:00 AM	1227.21	1227.42			N/A
11/22/2018	XAUUSD	1:30:00 PM	1228.79	1228.68			N/A
11/22/2018	XAUUSD	3:30:00 PM	1227.81	1228.01			N/A
11/22/2018	ZARJPY	9:30:00 AM					N/A
11/22/2018	ZARJPY	11:30:00 AM					N/A
11/22/2018	ZARJPY	1:30:00 PM	8.1	8.14			N/A
11/22/2018	ZARJPY	3:30:00 PM					N/A
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11/23/2018	AUDCAD	3:30:00 PM	0.95515	0.95312			N/A
11/23/2018	AUDCHF	9:30:00 AM	0.71999	0.72065			N/A
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11/23/2018	AUDCHF	1:30:00 PM	0.72017	0.72083			N/A
11/23/2018	AUDCHF	3:30:00 PM	0.71974	0.72028			N/A
11/23/2018	AUDCZK	9:30:00 AM	16.491	16.508			N/A
11/23/2018	AUDCZK	11:30:00 AM	16.525	16.54			N/A
11/23/2018	AUDCZK	1:30:00 PM	16.522	16.539			N/A
11/23/2018	AUDCZK	3:30:00 PM	16.515	16.528			N/A
11/23/2018	AUDDKK	9:30:00 AM	4.7353	4.7395			N/A
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11/23/2018	AUDDKK	1:30:00 PM	4.7479	4.7525			N/A
11/23/2018	AUDDKK	3:30:00 PM	4.7492	4.7531			N/A
11/23/2018	AUDHKD	9:30:00 AM	5.6671	5.6705			N/A
11/23/2018	AUDHKD	11:30:00 AM	5.6645	5.6676			N/A
11/23/2018	AUDHKD	1:30:00 PM	5.6492	5.6531			N/A
11/23/2018	AUDHKD	3:30:00 PM	5.65	5.6525			N/A
11/23/2018	AUDHUF	9:30:00 AM	203.74	203.95			N/A
11/23/2018	AUDHUF	11:30:00 AM	204.25	204.45			N/A
11/23/2018	AUDHUF	1:30:00 PM	204.73	204.9			N/A
11/23/2018	AUDHUF	3:30:00 PM	204.99	205.18			N/A
11/23/2018	AUDJPY	9:30:00 AM	81.727	81.781			N/A
11/23/2018	AUDJPY	11:30:00 AM	81.658	81.724			N/A
11/23/2018	AUDJPY	1:30:00 PM	81.492	81.539			N/A
11/23/2018	AUDJPY	3:30:00 PM	81.479	81.522			N/A
11/23/2018	AUDMXN	9:30:00 AM	14.7212	14.7274			N/A
11/23/2018	AUDMXN	11:30:00 AM	14.7192	14.7268			N/A
11/23/2018	AUDMXN	1:30:00 PM	14.7211	14.7288			N/A
11/23/2018	AUDMXN	3:30:00 PM	14.7086	14.7096			N/A
11/23/2018	AUDNOK	9:30:00 AM	6.179	6.1843			N/A
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11/23/2018	AUDNOK	1:30:00 PM	6.1928	6.1979			N/A

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11/23/2018	AUDNZD	1:30:00 PM	1.0652	1.06585			N/A
11/23/2018	AUDNZD	3:30:00 PM	1.06642	1.06694			N/A
11/23/2018	AUDPLN	9:30:00 AM	2.7238	2.7268			N/A
11/23/2018	AUDPLN	11:30:00 AM	2.7321	2.7347			N/A
11/23/2018	AUDPLN	1:30:00 PM	2.7336	2.7362			N/A
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11/23/2018	AUDSEK	9:30:00 AM	6.5398	6.543			N/A
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11/23/2018	AUDSEK	1:30:00 PM	6.5567	6.5591			N/A
11/23/2018	AUDSEK	3:30:00 PM	6.5616	6.5637			N/A
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11/23/2018	AUDUSD	3:30:00 PM	0.72251	0.72219			N/A
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11/23/2018	AUDZAR	11:30:00 AM	9.9934	9.9985			N/A
11/23/2018	AUDZAR	1:30:00 PM	10.0069	10.0186			N/A
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11/23/2018	CADCHF	9:30:00 AM	0.75254	0.75324			N/A
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11/23/2018	CADCHF	1:30:00 PM	0.75347	0.7541			N/A
11/23/2018	CADCHF	3:30:00 PM	0.75532	0.75392			N/A
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11/23/2018	CADCZK	11:30:00 AM	17.271	17.285			N/A
11/23/2018	CADCZK	1:30:00 PM	17.292	17.307			N/A
11/23/2018	CADCZK	3:30:00 PM	17.337	17.308			N/A
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11/23/2018	CADDKK	3:30:00 PM	4.987	4.978			N/A
11/23/2018	CADHKD	9:30:00 AM	5.9254	5.9288			N/A
11/23/2018	CADHKD	11:30:00 AM	5.9195	5.9235			N/A
11/23/2018	CADHKD	1:30:00 PM	5.9126	5.9158			N/A
11/23/2018	CADHKD	3:30:00 PM	5.9307	5.9192			N/A
11/23/2018	CADHUF	9:30:00 AM	213.05	213.17			N/A
11/23/2018	CADHUF	11:30:00 AM	213.49	213.62			N/A
11/23/2018	CADHUF	1:30:00 PM	214.29	214.29			N/A
11/23/2018	CADHUF	3:30:00 PM	215.25	214.79			N/A
11/23/2018	CADJPY	9:30:00 AM	85.426	85.488			N/A
11/23/2018	CADJPY	11:30:00 AM	85.319	85.391			N/A
11/23/2018	CADJPY	1:30:00 PM	85.263	85.304			N/A
11/23/2018	CADJPY	3:30:00 PM	85.511	85.34			N/A
11/23/2018	CADMXN	9:30:00 AM	15.3942	15.3986			N/A

11/23/2018	CADMXN	11:30:00 AM	15.385	15.3923			N/A
11/23/2018	CADMXN	1:30:00 PM	15.4082	15.4145			N/A
11/23/2018	CADMXN	3:30:00 PM	15.4386	15.41			N/A
11/23/2018	CADNOK	9:30:00 AM	6.4605	6.4651			N/A
11/23/2018	CADNOK	11:30:00 AM	6.4669	6.4683			N/A
11/23/2018	CADNOK	1:30:00 PM	6.4811	6.486			N/A
11/23/2018	CADNOK	3:30:00 PM	6.5081	6.4952			N/A
11/23/2018	CADPLN	9:30:00 AM					N/A
11/23/2018	CADPLN	11:30:00 AM					N/A
11/23/2018	CADPLN	1:30:00 PM	2.8608	2.8627			N/A
11/23/2018	CADPLN	3:30:00 PM	2.8689	2.8634			N/A
11/23/2018	CADSEK	9:30:00 AM	6.8354	6.8385			N/A
11/23/2018	CADSEK	11:30:00 AM	6.8466	6.8487			N/A
11/23/2018	CADSEK	1:30:00 PM	6.8594	6.8616			N/A
11/23/2018	CADSEK	3:30:00 PM	6.886	6.8703			N/A
11/23/2018	CADSGD	9:30:00 AM					N/A
11/23/2018	CADSGD	11:30:00 AM					N/A
11/23/2018	CADSGD	1:30:00 PM	1.0395	1.0398			N/A
11/23/2018	CADSGD	3:30:00 PM	1.0418	1.0401			N/A
11/23/2018	CADZAR	9:30:00 AM	10.437	10.4514			N/A
11/23/2018	CADZAR	11:30:00 AM	10.4352	10.4443			N/A
11/23/2018	CADZAR	1:30:00 PM	10.4643	10.4806			N/A
11/23/2018	CADZAR	3:30:00 PM	10.5175	10.5082			N/A
11/23/2018	CHFCZK	9:30:00 AM	22.906	22.921			N/A
11/23/2018	CHFCZK	11:30:00 AM	22.924	22.937			N/A
11/23/2018	CHFCZK	1:30:00 PM	22.942	22.958			N/A
11/23/2018	CHFCZK	3:30:00 PM	22.95	22.961			N/A
11/23/2018	CHFDKK	9:30:00 AM	6.576	6.58			N/A
11/23/2018	CHFDKK	11:30:00 AM	6.583	6.587			N/A
11/23/2018	CHFDKK	1:30:00 PM					N/A
11/23/2018	CHFDKK	3:30:00 PM	6.599	6.602			N/A
11/23/2018	CHFHKD	9:30:00 AM	7.8711	7.8743			N/A
11/23/2018	CHFHKD	11:30:00 AM	7.8576	7.8609			N/A
11/23/2018	CHFHKD	1:30:00 PM	7.8436	7.8475			N/A
11/23/2018	CHFHKD	3:30:00 PM	7.8506	7.8527			N/A
11/23/2018	CHFHUF	9:30:00 AM	282.9	283.25			N/A
11/23/2018	CHFHUF	11:30:00 AM	283.27	283.6			N/A
11/23/2018	CHFHUF	1:30:00 PM	284.2	284.52			N/A
11/23/2018	CHFHUF	3:30:00 PM	284.79	285.09			N/A
11/23/2018	CHFJPY	9:30:00 AM	113.472	113.513			N/A
11/23/2018	CHFJPY	11:30:00 AM	113.242	113.294			N/A
11/23/2018	CHFJPY	1:30:00 PM	113.116	113.142			N/A
11/23/2018	CHFJPY	3:30:00 PM	113.184	113.203			N/A
11/23/2018	CHFMXN	9:30:00 AM	20.443	20.4532			N/A
11/23/2018	CHFMXN	11:30:00 AM	20.4158	20.4271			N/A
11/23/2018	CHFMXN	1:30:00 PM	20.4372	20.4495			N/A
11/23/2018	CHFMXN	3:30:00 PM	20.4357	20.4343			N/A
11/23/2018	CHFNOK	9:30:00 AM	8.582	8.5883			N/A
11/23/2018	CHFNOK	11:30:00 AM	8.5822	8.5881			N/A
11/23/2018	CHFNOK	1:30:00 PM	8.5974	8.6045			N/A

11/23/2018	CHFNOK	3:30:00 PM	8.6137	8.6178			N/A
11/23/2018	CHFPLN	9:30:00 AM	3.782	3.7847			N/A
11/23/2018	CHFPLN	11:30:00 AM	3.7888	3.7916			N/A
11/23/2018	CHFPLN	1:30:00 PM	3.7946	3.7973			N/A
11/23/2018	CHFPLN	3:30:00 PM	3.7966	3.7989			N/A
11/23/2018	CHFSEK	9:30:00 AM	9.0799	9.0832			N/A
11/23/2018	CHFSEK	11:30:00 AM	9.0878	9.092			N/A
11/23/2018	CHFSEK	1:30:00 PM	9.1011	9.1035			N/A
11/23/2018	CHFSEK	3:30:00 PM	9.1139	9.1171			N/A
11/23/2018	CHFSGD	9:30:00 AM	1.3808	1.3813			N/A
11/23/2018	CHFSGD	11:30:00 AM	1.3798	1.3802			N/A
11/23/2018	CHFSGD	1:30:00 PM	1.3786	1.379			N/A
11/23/2018	CHFSGD	3:30:00 PM	1.3792	1.3795			N/A
11/23/2018	CHFZAR	9:30:00 AM	13.8672	13.8777			N/A
11/23/2018	CHFZAR	11:30:00 AM	13.8526	13.8587			N/A
11/23/2018	CHFZAR	1:30:00 PM	13.8878	13.899			N/A
11/23/2018	CHFZAR	3:30:00 PM	13.9271	13.9371			N/A
11/23/2018	CZKJPY	9:30:00 AM	4.953	4.957			N/A
11/23/2018	CZKJPY	11:30:00 AM	4.941	4.944			N/A
11/23/2018	CZKJPY	1:30:00 PM	4.93	4.934			N/A
11/23/2018	CZKJPY	3:30:00 PM	4.933	4.935			N/A
11/23/2018	DKKJPY	9:30:00 AM	17.26	17.28			N/A
11/23/2018	DKKJPY	11:30:00 AM	17.21	17.23			N/A
11/23/2018	DKKJPY	1:30:00 PM					N/A
11/23/2018	DKKJPY	3:30:00 PM	17.17	17.18			N/A
11/23/2018	EURAUD	9:30:00 AM	1.57481	1.57467			N/A
11/23/2018	EURAUD	11:30:00 AM	1.57157	1.57096			N/A
11/23/2018	EURAUD	1:30:00 PM	1.57057	1.57039			N/A
11/23/2018	EURAUD	3:30:00 PM	1.57055	1.56998			N/A
11/23/2018	EURCAD	9:30:00 AM	1.50679	1.50728			N/A
11/23/2018	EURCAD	11:30:00 AM	1.50427	1.50435			N/A
11/23/2018	EURCAD	1:30:00 PM	1.50135	1.50176			N/A
11/23/2018	EURCAD	3:30:00 PM	1.50027	1.49723			N/A
11/23/2018	EURCHF	9:30:00 AM	1.13455	1.13456			N/A
11/23/2018	EURCHF	11:30:00 AM	1.13341	1.13332			N/A
11/23/2018	EURCHF	1:30:00 PM	1.13173	1.13182			N/A
11/23/2018	EURCHF	3:30:00 PM	1.13057	1.13093			N/A
11/23/2018	EURCZK	9:30:00 AM	25.979	26.012			N/A
11/23/2018	EURCZK	11:30:00 AM	25.972	26.01			N/A
11/23/2018	EURCZK	1:30:00 PM	25.953	25.99			N/A
11/23/2018	EURCZK	3:30:00 PM	25.936	25.972			N/A
11/23/2018	EURDKK	9:30:00 AM	7.4614	7.4624			N/A
11/23/2018	EURDKK	11:30:00 AM	7.461	7.4622			N/A
11/23/2018	EURDKK	1:30:00 PM	7.4611	7.4619			N/A
11/23/2018	EURDKK	3:30:00 PM	7.4609	7.4619			N/A
11/23/2018	EURGBP	9:30:00 AM	0.88693	0.88697			N/A
11/23/2018	EURGBP	11:30:00 AM	0.88552	0.88547			N/A
11/23/2018	EURGBP	1:30:00 PM	0.88443	0.8845			N/A
11/23/2018	EURGBP	3:30:00 PM	0.88467	0.88467			N/A
11/23/2018	EURHKD	9:30:00 AM	8.9286	8.9314			N/A

11/23/2018	EURHKD	11:30:00 AM	8.9041	8.9071			N/A
11/23/2018	EURHKD	1:30:00 PM	8.8769	8.8804			N/A
11/23/2018	EURHKD	3:30:00 PM	8.8767	8.8769			N/A
11/23/2018	EURHUF	9:30:00 AM	320.81	321.51			N/A
11/23/2018	EURHUF	11:30:00 AM	320.9	321.63			N/A
11/23/2018	EURHUF	1:30:00 PM	321.5	322.21			N/A
11/23/2018	EURHUF	3:30:00 PM	321.87	322.53			N/A
11/23/2018	EURJPY	9:30:00 AM	128.778	128.748			N/A
11/23/2018	EURJPY	11:30:00 AM	128.399	128.361			N/A
11/23/2018	EURJPY	1:30:00 PM	128.057	128.015			N/A
11/23/2018	EURJPY	3:30:00 PM	128.027	127.967			N/A
11/23/2018	EURMXN	9:30:00 AM	23.195	23.2045			N/A
11/23/2018	EURMXN	11:30:00 AM	23.1425	23.15			N/A
11/23/2018	EURMXN	1:30:00 PM	23.1328	23.1451			N/A
11/23/2018	EURMXN	3:30:00 PM	23.1087	23.1117			N/A
11/23/2018	EURNOK	9:30:00 AM	9.735	9.7461			N/A
11/23/2018	EURNOK	11:30:00 AM	9.7256	9.7354			N/A
11/23/2018	EURNOK	1:30:00 PM	9.7288	9.7398			N/A
11/23/2018	EURNOK	3:30:00 PM	9.737	9.7471			N/A
11/23/2018	EURNZD	9:30:00 AM	1.67499	1.67557			N/A
11/23/2018	EURNZD	11:30:00 AM	1.67338	1.67386			N/A
11/23/2018	EURNZD	1:30:00 PM	1.67346	1.67417			N/A
11/23/2018	EURNZD	3:30:00 PM	1.67518	1.67564			N/A
11/23/2018	EURPLN	9:30:00 AM	4.2911	4.2942			N/A
11/23/2018	EURPLN	11:30:00 AM	4.2941	4.2973			N/A
11/23/2018	EURPLN	1:30:00 PM	4.2949	4.2973			N/A
11/23/2018	EURPLN	3:30:00 PM	4.2926	4.2958			N/A
11/23/2018	EURRUR	9:30:00 AM					N/A
11/23/2018	EURRUR	11:30:00 AM	74.349	74.778			N/A
11/23/2018	EURRUR	1:30:00 PM	74.371	74.793			N/A
11/23/2018	EURRUR	3:30:00 PM	74.483	74.868			N/A
11/23/2018	EURSEK	9:30:00 AM	10.3014	10.3055			N/A
11/23/2018	EURSEK	11:30:00 AM	10.2999	10.3035			N/A
11/23/2018	EURSEK	1:30:00 PM	10.2982	10.3025			N/A
11/23/2018	EURSEK	3:30:00 PM	10.3048	10.3068			N/A
11/23/2018	EURSGD	9:30:00 AM	1.5665	1.5672			N/A
11/23/2018	EURSGD	11:30:00 AM	1.5637	1.5644			N/A
11/23/2018	EURSGD	1:30:00 PM	1.56	1.5607			N/A
11/23/2018	EURSGD	3:30:00 PM	1.5596	1.5597			N/A
11/23/2018	EURUSD	9:30:00 AM	1.14089	1.14064			N/A
11/23/2018	EURUSD	11:30:00 AM	1.13784	1.13764	100	100	N/A
11/23/2018	EURUSD	1:30:00 PM	1.1345	1.13432			N/A
11/23/2018	EURUSD	3:30:00 PM	1.13453	1.1339			N/A
11/23/2018	EURZAR	9:30:00 AM	15.7403	15.7505			N/A
11/23/2018	EURZAR	11:30:00 AM	15.7027	15.7136			N/A
11/23/2018	EURZAR	1:30:00 PM	15.7213	15.7351			N/A
11/23/2018	EURZAR	3:30:00 PM	15.7512	15.7637			N/A
11/23/2018	GBPAUD	9:30:00 AM	1.77555	1.7761			N/A
11/23/2018	GBPAUD	11:30:00 AM	1.77473	1.77484			N/A
11/23/2018	GBPAUD	1:30:00 PM	1.77571	1.77637			N/A

11/23/2018	GBPAUD	3:30:00 PM	1.77523	1.77543			N/A
11/23/2018	GBPCAD	9:30:00 AM	1.6987	1.69935			N/A
11/23/2018	GBPCAD	11:30:00 AM	1.69868	1.69873			N/A
11/23/2018	GBPCAD	1:30:00 PM	1.6972	1.69789			N/A
11/23/2018	GBPCAD	3:30:00 PM	1.69567	1.69206			N/A
11/23/2018	GBPCHF	9:30:00 AM	1.27905	1.27934			N/A
11/23/2018	GBPCHF	11:30:00 AM	1.27997	1.27997			N/A
11/23/2018	GBPCHF	1:30:00 PM	1.27945	1.27979			N/A
11/23/2018	GBPCHF	3:30:00 PM	1.27805	1.2785			N/A
11/23/2018	GBPCZK	9:30:00 AM	29.293	29.313			N/A
11/23/2018	GBPCZK	11:30:00 AM	29.332	29.352			N/A
11/23/2018	GBPCZK	1:30:00 PM	29.349	29.37			N/A
11/23/2018	GBPCZK	3:30:00 PM	29.325	29.343			N/A
11/23/2018	GBPDKK	9:30:00 AM	8.409	8.42			N/A
11/23/2018	GBPDKK	11:30:00 AM	8.423	8.433			N/A
11/23/2018	GBPDKK	1:30:00 PM	8.432	8.444			N/A
11/23/2018	GBPDKK	3:30:00 PM	8.431	8.442			N/A
11/23/2018	GBPHKD	9:30:00 AM	10.0654	10.0698			N/A
11/23/2018	GBPHKD	11:30:00 AM	10.0549	10.0572			N/A
11/23/2018	GBPHKD	1:30:00 PM	10.0353	10.0382			N/A
11/23/2018	GBPHKD	3:30:00 PM	10.033	10.0339			N/A
11/23/2018	GBPHUF	9:30:00 AM	361.78	362.2			N/A
11/23/2018	GBPHUF	11:30:00 AM	362.43	362.92			N/A
11/23/2018	GBPHUF	1:30:00 PM	363.57	363.94			N/A
11/23/2018	GBPHUF	3:30:00 PM	363.91	364.28			N/A
11/23/2018	GBPJPY	9:30:00 AM	145.189	145.206			N/A
11/23/2018	GBPJPY	11:30:00 AM	144.999	144.983			N/A
11/23/2018	GBPJPY	1:30:00 PM	144.77	144.774			N/A
11/23/2018	GBPJPY	3:30:00 PM	144.708	144.687			N/A
11/23/2018	GBPMXN	9:30:00 AM	26.1474	26.1512			N/A
11/23/2018	GBPMXN	11:30:00 AM	26.1299	26.1312			N/A
11/23/2018	GBPMXN	1:30:00 PM	26.1467	26.1584			N/A
11/23/2018	GBPMXN	3:30:00 PM	26.1151	26.1156			N/A
11/23/2018	GBPNOK	9:30:00 AM	10.9774	10.9865			N/A
11/23/2018	GBPNOK	11:30:00 AM	10.9837	10.9926			N/A
11/23/2018	GBPNOK	1:30:00 PM	11.0009	11.0114			N/A
11/23/2018	GBPNOK	3:30:00 PM	11.0086	11.0173			N/A
11/23/2018	GBPNZD	9:30:00 AM	1.88854	1.88902			N/A
11/23/2018	GBPNZD	11:30:00 AM	1.8899	1.89014			N/A
11/23/2018	GBPNZD	1:30:00 PM	1.89223	1.89284			N/A
11/23/2018	GBPNZD	3:30:00 PM	1.89378	1.89402			N/A
11/23/2018	GBPPLN	9:30:00 AM	4.8392	4.8405			N/A
11/23/2018	GBPPLN	11:30:00 AM	4.8504	4.8519			N/A
11/23/2018	GBPPLN	1:30:00 PM	4.8564	4.8578			N/A
11/23/2018	GBPPLN	3:30:00 PM	4.8535	4.8549			N/A
11/23/2018	GBPSEK	9:30:00 AM	11.6117	11.6205			N/A
11/23/2018	GBPSEK	11:30:00 AM	11.6291	11.6371			N/A
11/23/2018	GBPSEK	1:30:00 PM	11.642	11.65			N/A
11/23/2018	GBPSEK	3:30:00 PM	11.6469	11.6525			N/A
11/23/2018	GBPSGD	9:30:00 AM	1.7662	1.767			N/A

11/23/2018	GBPSGD	11:30:00 AM	1.7662	1.7665			N/A
11/23/2018	GBPSGD	1:30:00 PM	1.7639	1.7646			N/A
11/23/2018	GBPSGD	3:30:00 PM	1.763	1.7632			N/A
11/23/2018	GBPUSD	9:30:00 AM	1.28651	1.28634			N/A
11/23/2018	GBPUSD	11:30:00 AM	1.28526	1.28484			N/A
11/23/2018	GBPUSD	1:30:00 PM	1.2829	1.28267			N/A
11/23/2018	GBPUSD	3:30:00 PM	1.28255	1.28199			N/A
11/23/2018	GBPZAR	9:30:00 AM	17.7444	17.7607			N/A
11/23/2018	GBPZAR	11:30:00 AM	17.728	17.748			N/A
11/23/2018	GBPZAR	1:30:00 PM	17.7705	17.7944			N/A
11/23/2018	GBPZAR	3:30:00 PM	17.8018	17.8215			N/A
11/23/2018	GOLD	9:30:00 AM	1223.84	1223.14			N/A
11/23/2018	GOLD	11:30:00 AM	1222.71	1222.88			N/A
11/23/2018	GOLD	1:30:00 PM	1221.83	1221.93			N/A
11/23/2018	GOLD	3:30:00 PM	1221.57	1221.35			N/A
11/23/2018	HKDJPY	9:30:00 AM					N/A
11/23/2018	HKDJPY	11:30:00 AM	14.43	14.44			N/A
11/23/2018	HKDJPY	1:30:00 PM					N/A
11/23/2018	HKDJPY	3:30:00 PM					N/A
11/23/2018	HUFJPY	9:30:00 AM					N/A
11/23/2018	HUFJPY	11:30:00 AM					N/A
11/23/2018	HUFJPY	1:30:00 PM					N/A
11/23/2018	HUFJPY	3:30:00 PM					N/A
11/23/2018	MXNJPY	9:30:00 AM					N/A
11/23/2018	MXNJPY	11:30:00 AM					N/A
11/23/2018	MXNJPY	1:30:00 PM	5.55	5.56			N/A
11/23/2018	MXNJPY	3:30:00 PM					N/A
11/23/2018	NOKJPY	9:30:00 AM					N/A
11/23/2018	NOKJPY	11:30:00 AM	13.19	13.23			N/A
11/23/2018	NOKJPY	1:30:00 PM	13.15	13.19			N/A
11/23/2018	NOKJPY	3:30:00 PM					N/A
11/23/2018	NZDCAD	9:30:00 AM	0.89919	0.89982			N/A
11/23/2018	NZDCAD	11:30:00 AM	0.89851	0.8991			N/A
11/23/2018	NZDCAD	1:30:00 PM	0.89672	0.89727			N/A
11/23/2018	NZDCAD	3:30:00 PM	0.89525	0.89376			N/A
11/23/2018	NZDCHF	9:30:00 AM	0.67689	0.67756			N/A
11/23/2018	NZDCHF	11:30:00 AM	0.67688	0.67756			N/A
11/23/2018	NZDCHF	1:30:00 PM	0.67583	0.67651			N/A
11/23/2018	NZDCHF	3:30:00 PM	0.67469	0.67515			N/A
11/23/2018	NZDCZK	9:30:00 AM	15.508	15.519			N/A
11/23/2018	NZDCZK	11:30:00 AM	15.519	15.53			N/A
11/23/2018	NZDCZK	1:30:00 PM	15.507	15.52			N/A
11/23/2018	NZDCZK	3:30:00 PM	15.484	15.494			N/A
11/23/2018	NZDDKK	9:30:00 AM	4.453	4.456			N/A
11/23/2018	NZDDKK	11:30:00 AM					N/A
11/23/2018	NZDDKK	1:30:00 PM	4.457	4.46			N/A
11/23/2018	NZDDKK	3:30:00 PM	4.452	4.456			N/A
11/23/2018	NZDHKD	9:30:00 AM	5.3281	5.3299			N/A
11/23/2018	NZDHKD	11:30:00 AM	5.3186	5.3214			N/A
11/23/2018	NZDHKD	1:30:00 PM	5.3016	5.3044			N/A

11/23/2018	NZDHKD	3:30:00 PM	5.2961	5.2973			N/A
11/23/2018	NZDHUF	9:30:00 AM	191.52	191.75			N/A
11/23/2018	NZDHUF	11:30:00 AM	191.75	192.01			N/A
11/23/2018	NZDHUF	1:30:00 PM	192.08	192.3			N/A
11/23/2018	NZDHUF	3:30:00 PM	192.13	192.37			N/A
11/23/2018	NZDJPY	9:30:00 AM	76.837	76.892			N/A
11/23/2018	NZDJPY	11:30:00 AM	76.683	76.749			N/A
11/23/2018	NZDJPY	1:30:00 PM	76.469	76.525			N/A
11/23/2018	NZDJPY	3:30:00 PM	76.38	76.415			N/A
11/23/2018	NZDMXN	9:30:00 AM	13.8408	13.8429			N/A
11/23/2018	NZDMXN	11:30:00 AM	13.8228	13.8261			N/A
11/23/2018	NZDMXN	1:30:00 PM	13.8166	13.8187			N/A
11/23/2018	NZDMXN	3:30:00 PM	13.7887	13.7869			N/A
11/23/2018	NZDNOK	9:30:00 AM	5.8099	5.8126			N/A
11/23/2018	NZDNOK	11:30:00 AM	5.81	5.8115			N/A
11/23/2018	NZDNOK	1:30:00 PM	5.812	5.8153			N/A
11/23/2018	NZDNOK	3:30:00 PM	5.8122	5.8132			N/A
11/23/2018	NZDPLN	9:30:00 AM	2.5607	2.5621			N/A
11/23/2018	NZDPLN	11:30:00 AM	2.5653	2.5666			N/A
11/23/2018	NZDPLN	1:30:00 PM	2.5654	2.5667			N/A
11/23/2018	NZDPLN	3:30:00 PM	2.5614	2.5627			N/A
11/23/2018	NZDSEK	9:30:00 AM	6.1443	6.1509			N/A
11/23/2018	NZDSEK	11:30:00 AM	6.1492	6.1549			N/A
11/23/2018	NZDSEK	1:30:00 PM	6.1492	6.1545			N/A
11/23/2018	NZDSEK	3:30:00 PM	6.1464	6.1518			N/A
11/23/2018	NZDSGD	9:30:00 AM	0.935	0.9357			N/A
11/23/2018	NZDSGD	11:30:00 AM	0.9344	0.935			N/A
11/23/2018	NZDSGD	1:30:00 PM	0.932	0.9327			N/A
11/23/2018	NZDSGD	3:30:00 PM	0.9309	0.9313			N/A
11/23/2018	NZDUSD	9:30:00 AM	0.68096	0.68076			N/A
11/23/2018	NZDUSD	11:30:00 AM	0.67984	0.67979			N/A
11/23/2018	NZDUSD	1:30:00 PM	0.67776	0.67762			N/A
11/23/2018	NZDUSD	3:30:00 PM	0.67709	0.67684			N/A
11/23/2018	NZDZAR	9:30:00 AM	9.3848	9.3982			N/A
11/23/2018	NZDZAR	11:30:00 AM	9.3743	9.3857			N/A
11/23/2018	NZDZAR	1:30:00 PM	9.3827	9.3975			N/A
11/23/2018	NZDZAR	3:30:00 PM	9.392	9.4066			N/A
11/23/2018	SEKJPY	9:30:00 AM					N/A
11/23/2018	SEKJPY	11:30:00 AM	12.47	12.49			N/A
11/23/2018	SEKJPY	1:30:00 PM					N/A
11/23/2018	SEKJPY	3:30:00 PM					N/A
11/23/2018	SGDJPY	9:30:00 AM	82.16	82.18			N/A
11/23/2018	SGDJPY	11:30:00 AM	82.05	82.08			N/A
11/23/2018	SGDJPY	1:30:00 PM	82.04	82.05			N/A
11/23/2018	SGDJPY	3:30:00 PM	82.05	82.07			N/A
11/23/2018	SILVER	9:30:00 AM	14.12	14.41			N/A
11/23/2018	SILVER	11:30:00 AM	14.12	14.48			N/A
11/23/2018	SILVER	1:30:00 PM	14.08	14.45			N/A
11/23/2018	SILVER	3:30:00 PM	14.03	14.39			N/A
11/23/2018	USDCAD	9:30:00 AM	1.32087	1.32075			N/A

11/23/2018	USDCAD	11:30:00 AM	1.3219	1.32197			N/A
11/23/2018	USDCAD	1:30:00 PM	1.32352	1.32318			N/A
11/23/2018	USDCAD	3:30:00 PM	1.32286	1.31942	100	30000	N/A
11/23/2018	USDCHF	9:30:00 AM	0.99443	0.99444			N/A
11/23/2018	USDCHF	11:30:00 AM	0.99601	0.99611			N/A
11/23/2018	USDCHF	1:30:00 PM	0.99759	0.9975			N/A
11/23/2018	USDCHF	3:30:00 PM	0.99659	0.99703			N/A
11/23/2018	USDCZK	9:30:00 AM	22.772	22.792			N/A
11/23/2018	USDCZK	11:30:00 AM	22.828	22.849			N/A
11/23/2018	USDCZK	1:30:00 PM	22.881	22.901			N/A
11/23/2018	USDCZK	3:30:00 PM	22.874	22.887			N/A
11/23/2018	USDDKK	9:30:00 AM	6.5415	6.5453			N/A
11/23/2018	USDDKK	11:30:00 AM	6.5585	6.5626			N/A
11/23/2018	USDDKK	1:30:00 PM	6.5777	6.5819			N/A
11/23/2018	USDDKK	3:30:00 PM	6.5804	6.5821			N/A
11/23/2018	USDHKD	9:30:00 AM	7.8269	7.8273			N/A
11/23/2018	USDHKD	11:30:00 AM	7.8263	7.8268			N/A
11/23/2018	USDHKD	1:30:00 PM					N/A
11/23/2018	USDHKD	3:30:00 PM	7.8254	7.8259			N/A
11/23/2018	USDHUF	9:30:00 AM	281.31	281.71			N/A
11/23/2018	USDHUF	11:30:00 AM	282.13	282.56			N/A
11/23/2018	USDHUF	1:30:00 PM	283.48	283.9			N/A
11/23/2018	USDHUF	3:30:00 PM	283.92	284.21			N/A
11/23/2018	USDJPY	9:30:00 AM	112.872	112.873			N/A
11/23/2018	USDJPY	11:30:00 AM	112.83	112.836			N/A
11/23/2018	USDJPY	1:30:00 PM	112.868	112.863			N/A
11/23/2018	USDJPY	3:30:00 PM	112.853	112.849			N/A
11/23/2018	USDMXN	9:30:00 AM	20.339	20.334			N/A
11/23/2018	USDMXN	11:30:00 AM	20.341	20.344			N/A
11/23/2018	USDMXN	1:30:00 PM	20.393	20.394			N/A
11/23/2018	USDMXN	3:30:00 PM	20.378	20.367			N/A
11/23/2018	USDNOK	9:30:00 AM	8.5356	8.5411			N/A
11/23/2018	USDNOK	11:30:00 AM	8.549	8.5545			N/A
11/23/2018	USDNOK	1:30:00 PM	8.5782	8.584			N/A
11/23/2018	USDNOK	3:30:00 PM	8.5883	8.5904			N/A
11/23/2018	USDPLN	9:30:00 AM	3.7623	3.7627			N/A
11/23/2018	USDPLN	11:30:00 AM	3.7747	3.7756			N/A
11/23/2018	USDPLN	1:30:00 PM	3.7865	3.7866			N/A
11/23/2018	USDPLN	3:30:00 PM	3.7859	3.7854			N/A
11/23/2018	USDRUR	9:30:00 AM					N/A
11/23/2018	USDRUR	11:30:00 AM	65.406	65.802			N/A
11/23/2018	USDRUR	1:30:00 PM	65.63	65.989			N/A
11/23/2018	USDRUR	3:30:00 PM	65.738	66.073			N/A
11/23/2018	USDSEK	9:30:00 AM	9.0275	9.0306			N/A
11/23/2018	USDSEK	11:30:00 AM	9.0499	9.0528			N/A
11/23/2018	USDSEK	1:30:00 PM	9.077	9.0789			N/A
11/23/2018	USDSEK	3:30:00 PM	9.0834	9.0848			N/A
11/23/2018	USDSGD	9:30:00 AM	1.3732	1.3734			N/A
11/23/2018	USDSGD	11:30:00 AM	1.3744	1.3746			N/A
11/23/2018	USDSGD	1:30:00 PM	1.3751	1.3755			N/A

11/23/2018	USDSGD	3:30:00 PM	1.3748	1.3751			N/A
11/23/2018	USDZAR	9:30:00 AM	13.7979	13.8046			N/A
11/23/2018	USDZAR	11:30:00 AM	13.8016	13.8083			N/A
11/23/2018	USDZAR	1:30:00 PM	13.8557	13.8679			N/A
11/23/2018	USDZAR	3:30:00 PM	13.8893	13.8966			N/A
11/23/2018	XAUUSD	9:30:00 AM	1223.84	1223.12			N/A
11/23/2018	XAUUSD	11:30:00 AM	1222.71	1222.88			N/A
11/23/2018	XAUUSD	1:30:00 PM	1221.83	1221.92			N/A
11/23/2018	XAUUSD	3:30:00 PM	1221.57	1221.38			N/A
11/23/2018	ZARJPY	9:30:00 AM	8.13	8.17			N/A
11/23/2018	ZARJPY	11:30:00 AM	8.13	8.16			N/A
11/23/2018	ZARJPY	1:30:00 PM	8.1	8.13			N/A
11/23/2018	ZARJPY	3:30:00 PM	8.07	8.11			N/A
11/26/2018	#AA	9:30:00 AM					N/A
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11/26/2018	#DD	3:30:00 PM					N/A
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11/26/2018	AUDCAD	11:30:00 AM	0.95914	0.95969			N/A
11/26/2018	AUDCAD	1:30:00 PM	0.95902	0.95948			N/A
11/26/2018	AUDCAD	3:30:00 PM	0.95772	0.95838			N/A
11/26/2018	AUDCHF	9:30:00 AM	0.7232	0.72383			N/A
11/26/2018	AUDCHF	11:30:00 AM	0.72396	0.72457			N/A
11/26/2018	AUDCHF	1:30:00 PM	0.72349	0.72408			N/A
11/26/2018	AUDCHF	3:30:00 PM	0.7228	0.72346			N/A
11/26/2018	AUDCZK	9:30:00 AM	16.534	16.549			N/A
11/26/2018	AUDCZK	11:30:00 AM	16.547	16.563			N/A
11/26/2018	AUDCZK	1:30:00 PM	16.541	16.557			N/A
11/26/2018	AUDCZK	3:30:00 PM	16.525	16.541			N/A
11/26/2018	AUDDKK	9:30:00 AM	4.7632	4.7675			N/A
11/26/2018	AUDDKK	11:30:00 AM	4.7676	4.7718			N/A
11/26/2018	AUDDKK	1:30:00 PM	4.7642	4.7685			N/A
11/26/2018	AUDDKK	3:30:00 PM	4.7577	4.7622			N/A
11/26/2018	AUDHKD	9:30:00 AM	5.6769	5.6809			N/A
11/26/2018	AUDHKD	11:30:00 AM	5.6857	5.6884			N/A
11/26/2018	AUDHKD	1:30:00 PM	5.6779	5.6813			N/A
11/26/2018	AUDHKD	3:30:00 PM	5.6721	5.676			N/A
11/26/2018	AUDHUF	9:30:00 AM	205.69	205.94			N/A

11/26/2018	AUDHUF	11:30:00 AM	205.94	206.01			N/A
11/26/2018	AUDHUF	1:30:00 PM	205.99	206.23			N/A
11/26/2018	AUDHUF	3:30:00 PM	205.8	206.03			N/A
11/26/2018	AUDJPY	9:30:00 AM	82.129	82.197			N/A
11/26/2018	AUDJPY	11:30:00 AM	82.329	82.396			N/A
11/26/2018	AUDJPY	1:30:00 PM	82.16	82.213			N/A
11/26/2018	AUDJPY	3:30:00 PM	82.097	82.167			N/A
11/26/2018	AUDMXN	9:30:00 AM	14.7717	14.7792			N/A
11/26/2018	AUDMXN	11:30:00 AM	14.8126	14.8107			N/A
11/26/2018	AUDMXN	1:30:00 PM	14.8341	14.8427			N/A
11/26/2018	AUDMXN	3:30:00 PM	14.8288	14.8384			N/A
11/26/2018	AUDNOK	9:30:00 AM	6.2094	6.2142			N/A
11/26/2018	AUDNOK	11:30:00 AM	6.2112	6.2151			N/A
11/26/2018	AUDNOK	1:30:00 PM	6.2097	6.2156			N/A
11/26/2018	AUDNOK	3:30:00 PM	6.2036	6.2096			N/A
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11/26/2018	AUDNZD	11:30:00 AM	1.06711	1.06771			N/A
11/26/2018	AUDNZD	1:30:00 PM	1.06683	1.06759			N/A
11/26/2018	AUDNZD	3:30:00 PM	1.06572	1.06642			N/A
11/26/2018	AUDPLN	9:30:00 AM	2.7379	2.7408			N/A
11/26/2018	AUDPLN	11:30:00 AM	2.74	2.7429			N/A
11/26/2018	AUDPLN	1:30:00 PM	2.7395	2.7424			N/A
11/26/2018	AUDPLN	3:30:00 PM	2.7371	2.7396			N/A
11/26/2018	AUDSEK	9:30:00 AM	6.5771	6.5805			N/A
11/26/2018	AUDSEK	11:30:00 AM	6.5719	6.5732			N/A
11/26/2018	AUDSEK	1:30:00 PM	6.5648	6.5677			N/A
11/26/2018	AUDSEK	3:30:00 PM	6.566	6.5681			N/A
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11/26/2018	AUDSGD	3:30:00 PM	0.9954	0.9957			N/A
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11/26/2018	AUDUSD	11:30:00 AM	0.72745	0.72734			N/A
11/26/2018	AUDUSD	1:30:00 PM	0.72636	0.72617			N/A
11/26/2018	AUDUSD	3:30:00 PM	0.72543	0.72538			N/A
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11/26/2018	AUDZAR	11:30:00 AM	10.0177	10.0212			N/A
11/26/2018	AUDZAR	1:30:00 PM	10.0237	10.0373			N/A
11/26/2018	AUDZAR	3:30:00 PM	10.0277	10.0429			N/A
11/26/2018	CADCHF	9:30:00 AM	0.75473	0.75541			N/A
11/26/2018	CADCHF	11:30:00 AM	0.75454	0.75524			N/A
11/26/2018	CADCHF	1:30:00 PM	0.75418	0.75485			N/A
11/26/2018	CADCHF	3:30:00 PM	0.75441	0.75511			N/A
11/26/2018	CADCZK	9:30:00 AM	17.26	17.275			N/A
11/26/2018	CADCZK	11:30:00 AM	17.252	17.268			N/A
11/26/2018	CADCZK	1:30:00 PM	17.249	17.266			N/A
11/26/2018	CADCZK	3:30:00 PM	17.253	17.27			N/A
11/26/2018	CADDKK	9:30:00 AM	4.973	4.977			N/A
11/26/2018	CADDKK	11:30:00 AM	4.972	4.975			N/A
11/26/2018	CADDKK	1:30:00 PM					N/A

11/26/2018	CADKKK	3:30:00 PM					N/A
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11/26/2018	CADHKD	11:30:00 AM	5.9277	5.9316			N/A
11/26/2018	CADHKD	1:30:00 PM	5.9202	5.9241			N/A
11/26/2018	CADHKD	3:30:00 PM	5.9223	5.9262			N/A
11/26/2018	CADHUF	9:30:00 AM	214.77	214.93			N/A
11/26/2018	CADHUF	11:30:00 AM	214.73	214.83			N/A
11/26/2018	CADHUF	1:30:00 PM	214.84	215			N/A
11/26/2018	CADHUF	3:30:00 PM	214.91	215.08			N/A
11/26/2018	CADJPY	9:30:00 AM	85.71	85.78			N/A
11/26/2018	CADJPY	11:30:00 AM	85.82	85.88			N/A
11/26/2018	CADJPY	1:30:00 PM	85.646	85.717			N/A
11/26/2018	CADJPY	3:30:00 PM	85.699	85.763			N/A
11/26/2018	CADMXN	9:30:00 AM	15.4207	15.4314			N/A
11/26/2018	CADMXN	11:30:00 AM	15.4428	15.447			N/A
11/26/2018	CADMXN	1:30:00 PM	15.4683	15.4769			N/A
11/26/2018	CADMXN	3:30:00 PM	15.4813	15.4932			N/A
11/26/2018	CADNOK	9:30:00 AM	6.4818	6.4868			N/A
11/26/2018	CADNOK	11:30:00 AM	6.4757	6.4798			N/A
11/26/2018	CADNOK	1:30:00 PM	6.4753	6.4802			N/A
11/26/2018	CADNOK	3:30:00 PM	6.4769	6.4819			N/A
11/26/2018	CADPLN	9:30:00 AM	2.8588	2.86			N/A
11/26/2018	CADPLN	11:30:00 AM	2.857	2.8588			N/A
11/26/2018	CADPLN	1:30:00 PM	2.8567	2.8584			N/A
11/26/2018	CADPLN	3:30:00 PM	2.8573	2.8592			N/A
11/26/2018	CADSEK	9:30:00 AM	6.8633	6.8666			N/A
11/26/2018	CADSEK	11:30:00 AM	6.849	6.8523			N/A
11/26/2018	CADSEK	1:30:00 PM	6.8447	6.8475			N/A
11/26/2018	CADSEK	3:30:00 PM	6.8541	6.8578			N/A
11/26/2018	CADSGD	9:30:00 AM	1.0405	1.0409			N/A
11/26/2018	CADSGD	11:30:00 AM	1.0408	1.0411			N/A
11/26/2018	CADSGD	1:30:00 PM	1.0395	1.0398			N/A
11/26/2018	CADSGD	3:30:00 PM	1.0394	1.0397			N/A
11/26/2018	CADZAR	9:30:00 AM	10.4232	10.4381			N/A
11/26/2018	CADZAR	11:30:00 AM	10.4372	10.4454			N/A
11/26/2018	CADZAR	1:30:00 PM	10.4516	10.4658			N/A
11/26/2018	CADZAR	3:30:00 PM	10.4694	10.4859			N/A
11/26/2018	CHFCZK	9:30:00 AM	22.864	22.879			N/A
11/26/2018	CHFCZK	11:30:00 AM	22.858	22.872			N/A
11/26/2018	CHFCZK	1:30:00 PM	22.864	22.881			N/A
11/26/2018	CHFCZK	3:30:00 PM					N/A
11/26/2018	CHFDKK	9:30:00 AM					N/A
11/26/2018	CHFDKK	11:30:00 AM	6.584	6.588			N/A
11/26/2018	CHFDKK	1:30:00 PM					N/A
11/26/2018	CHFDKK	3:30:00 PM					N/A
11/26/2018	CHFHKD	9:30:00 AM	7.8508	7.8535			N/A
11/26/2018	CHFHKD	11:30:00 AM	7.8531	7.8571			N/A
11/26/2018	CHFHKD	1:30:00 PM	7.8478	7.8518			N/A
11/26/2018	CHFHKD	3:30:00 PM	7.8471	7.8509			N/A
11/26/2018	CHFHUF	9:30:00 AM	284.37	284.76			N/A

11/26/2018	CHFCHF	11:30:00 AM	284.39	284.61			N/A
11/26/2018	CHFCHF	1:30:00 PM	284.66	285.06			N/A
11/26/2018	CHFCHF	3:30:00 PM	284.66	285.05			N/A
11/26/2018	CHFJPY	9:30:00 AM	113.534	113.569			N/A
11/26/2018	CHFJPY	11:30:00 AM	113.7	113.705			N/A
11/26/2018	CHFJPY	1:30:00 PM	113.524	113.558			N/A
11/26/2018	CHFJPY	3:30:00 PM	113.546	113.587			N/A
11/26/2018	CHFUSD	9:30:00 AM	20.4235	20.4346			N/A
11/26/2018	CHFUSD	11:30:00 AM	20.4554	20.4607			N/A
11/26/2018	CHFUSD	1:30:00 PM	20.5013	20.5143			N/A
11/26/2018	CHFUSD	3:30:00 PM	20.5121	20.5282			N/A
11/26/2018	CHFGBP	9:30:00 AM	8.5856	8.5922			N/A
11/26/2018	CHFGBP	11:30:00 AM	8.5791	8.5843			N/A
11/26/2018	CHFGBP	1:30:00 PM	8.582	8.5901			N/A
11/26/2018	CHFGBP	3:30:00 PM	8.5809	8.5897			N/A
11/26/2018	CHFPLN	9:30:00 AM	3.7847	3.7878			N/A
11/26/2018	CHFPLN	11:30:00 AM	3.7839	3.7865			N/A
11/26/2018	CHFPLN	1:30:00 PM	3.7854	3.7887			N/A
11/26/2018	CHFPLN	3:30:00 PM	3.7856	3.7884			N/A
11/26/2018	CHFSEK	9:30:00 AM	9.0914	9.0948			N/A
11/26/2018	CHFSEK	11:30:00 AM	9.0746	9.0764			N/A
11/26/2018	CHFSEK	1:30:00 PM	9.0721	9.0759			N/A
11/26/2018	CHFSEK	3:30:00 PM	9.0812	9.0859			N/A
11/26/2018	CHFSGD	9:30:00 AM	1.3777	1.3781			N/A
11/26/2018	CHFSGD	11:30:00 AM	1.3784	1.3789			N/A
11/26/2018	CHFSGD	1:30:00 PM	1.3774	1.3778			N/A
11/26/2018	CHFSGD	3:30:00 PM	1.3767	1.3771			N/A
11/26/2018	CHFZAR	9:30:00 AM	13.8099	13.8205			N/A
11/26/2018	CHFZAR	11:30:00 AM	13.8311	13.8335			N/A
11/26/2018	CHFZAR	1:30:00 PM	13.8572	13.868			N/A
11/26/2018	CHFZAR	3:30:00 PM	13.8756	13.8872			N/A
11/26/2018	CZKJPY	9:30:00 AM	4.968	4.97			N/A
11/26/2018	CZKJPY	11:30:00 AM	4.974	4.978			N/A
11/26/2018	CZKJPY	1:30:00 PM	4.964	4.968			N/A
11/26/2018	CZKJPY	3:30:00 PM					N/A
11/26/2018	DKKJPY	9:30:00 AM	17.26	17.28			N/A
11/26/2018	DKKJPY	11:30:00 AM					N/A
11/26/2018	DKKJPY	1:30:00 PM					N/A
11/26/2018	DKKJPY	3:30:00 PM	17.26	17.27			N/A
11/26/2018	EURAUD	9:30:00 AM	1.56566	1.56537			N/A
11/26/2018	EURAUD	11:30:00 AM	1.56405	1.5639			N/A
11/26/2018	EURAUD	1:30:00 PM	1.56514	1.56497			N/A
11/26/2018	EURAUD	3:30:00 PM	1.56731	1.56711			N/A
11/26/2018	EURCAD	9:30:00 AM	1.50043	1.5008			N/A
11/26/2018	EURCAD	11:30:00 AM	1.50089	1.50121			N/A
11/26/2018	EURCAD	1:30:00 PM	1.50147	1.50197			N/A
11/26/2018	EURCAD	3:30:00 PM	1.50165	1.50215			N/A
11/26/2018	EURCHF	9:30:00 AM	1.13285	1.1329			N/A
11/26/2018	EURCHF	11:30:00 AM	1.13305	1.13297			N/A
11/26/2018	EURCHF	1:30:00 PM	1.13289	1.13301			N/A

11/26/2018	EURCHF	3:30:00 PM	1.13312	1.13388			N/A
11/26/2018	EURCZK	9:30:00 AM	25.889	25.929			N/A
11/26/2018	EURCZK	11:30:00 AM	25.887	25.924			N/A
11/26/2018	EURCZK	1:30:00 PM					N/A
11/26/2018	EURCZK	3:30:00 PM	25.9	25.938			N/A
11/26/2018	EURDKK	9:30:00 AM	7.4611	7.4624			N/A
11/26/2018	EURDKK	11:30:00 AM	7.461	7.4622			N/A
11/26/2018	EURDKK	1:30:00 PM	7.4601	7.4612			N/A
11/26/2018	EURDKK	3:30:00 PM	7.46	7.461			N/A
11/26/2018	EURGBP	9:30:00 AM	0.88618	0.88626			N/A
11/26/2018	EURGBP	11:30:00 AM	0.88636	0.88635			N/A
11/26/2018	EURGBP	1:30:00 PM	0.8844	0.88444			N/A
11/26/2018	EURGBP	3:30:00 PM	0.8846	0.88458			N/A
11/26/2018	EURHKD	9:30:00 AM	8.8927	8.8968			N/A
11/26/2018	EURHKD	11:30:00 AM	8.8979	8.9006			N/A
11/26/2018	EURHKD	1:30:00 PM	8.8899	8.8942			N/A
11/26/2018	EURHKD	3:30:00 PM	8.8934	8.8984			N/A
11/26/2018	EURHUF	9:30:00 AM					N/A
11/26/2018	EURHUF	11:30:00 AM	322.15	322.83			N/A
11/26/2018	EURHUF	1:30:00 PM	322.38	323.05			N/A
11/26/2018	EURHUF	3:30:00 PM	322.54	323.22			N/A
11/26/2018	EURJPY	9:30:00 AM	128.653	128.643			N/A
11/26/2018	EURJPY	11:30:00 AM	128.855	128.825			N/A
11/26/2018	EURJPY	1:30:00 PM	128.656	128.64			N/A
11/26/2018	EURJPY	3:30:00 PM	128.743	128.736			N/A
11/26/2018	EURMXN	9:30:00 AM	23.1393	23.1542			N/A
11/26/2018	EURMXN	11:30:00 AM	23.1814	23.1852			N/A
11/26/2018	EURMXN	1:30:00 PM	23.2282	23.2429			N/A
11/26/2018	EURMXN	3:30:00 PM	23.2529	23.2716			N/A
11/26/2018	EURNOK	9:30:00 AM	9.7247	9.7358			N/A
11/26/2018	EURNOK	11:30:00 AM	9.7188	9.7277			N/A
11/26/2018	EURNOK	1:30:00 PM	9.7222	9.7337			N/A
11/26/2018	EURNOK	3:30:00 PM	9.7256	9.7384			N/A
11/26/2018	EURNZD	9:30:00 AM	1.67109	1.67173			N/A
11/26/2018	EURNZD	11:30:00 AM	1.66972	1.67033			N/A
11/26/2018	EURNZD	1:30:00 PM	1.6702	1.67104			N/A
11/26/2018	EURNZD	3:30:00 PM	1.67086	1.67153			N/A
11/26/2018	EURPLN	9:30:00 AM	4.2875	4.291			N/A
11/26/2018	EURPLN	11:30:00 AM	4.2872	4.2905			N/A
11/26/2018	EURPLN	1:30:00 PM	4.289	4.2921			N/A
11/26/2018	EURPLN	3:30:00 PM	4.2912	4.2936			N/A
11/26/2018	EURRUR	9:30:00 AM					N/A
11/26/2018	EURRUR	11:30:00 AM	75.292	75.703			N/A
11/26/2018	EURRUR	1:30:00 PM	75.704	76.126			N/A
11/26/2018	EURRUR	3:30:00 PM	76.174	76.581			N/A
11/26/2018	EURSEK	9:30:00 AM	10.2984	10.3037			N/A
11/26/2018	EURSEK	11:30:00 AM	10.2816	10.2836			N/A
11/26/2018	EURSEK	1:30:00 PM	10.2786	10.2826			N/A
11/26/2018	EURSEK	3:30:00 PM	10.2942	10.2989			N/A
11/26/2018	EURSGD	9:30:00 AM	1.5607	1.5614			N/A

11/26/2018	EURSGD	11:30:00 AM	1.5617	1.5623			N/A
11/26/2018	EURSGD	1:30:00 PM	1.5603	1.5612			N/A
11/26/2018	EURSGD	3:30:00 PM	1.5603	1.5612			N/A
11/26/2018	EURUSD	9:30:00 AM	1.13665	1.1366		100	N/A
11/26/2018	EURUSD	11:30:00 AM	1.13783	1.13757		600	N/A
11/26/2018	EURUSD	1:30:00 PM	1.13668	1.13665			N/A
11/26/2018	EURUSD	3:30:00 PM	1.13685	1.13685			N/A
11/26/2018	EURZAR	9:30:00 AM	15.6455	15.663			N/A
11/26/2018	EURZAR	11:30:00 AM	15.6739	15.6769			N/A
11/26/2018	EURZAR	1:30:00 PM	15.7007	15.7177			N/A
11/26/2018	EURZAR	3:30:00 PM	15.7304	15.7488			N/A
11/26/2018	GBPAUD	9:30:00 AM	1.76648	1.76723			N/A
11/26/2018	GBPAUD	11:30:00 AM	1.76488	1.76516			N/A
11/26/2018	GBPAUD	1:30:00 PM	1.76976	1.77016			N/A
11/26/2018	GBPAUD	3:30:00 PM	1.77175	1.77228			N/A
11/26/2018	GBPCAD	9:30:00 AM	1.69269	1.69341			N/A
11/26/2018	GBPCAD	11:30:00 AM	1.69301	1.69357			N/A
11/26/2018	GBPCAD	1:30:00 PM	1.69746	1.69818			N/A
11/26/2018	GBPCAD	3:30:00 PM	1.69738	1.69801			N/A
11/26/2018	GBPCHF	9:30:00 AM	1.27819	1.27849			N/A
11/26/2018	GBPCHF	11:30:00 AM	1.2781	1.27839			N/A
11/26/2018	GBPCHF	1:30:00 PM	1.28084	1.2812			N/A
11/26/2018	GBPCHF	3:30:00 PM	1.281	1.28173			N/A
11/26/2018	GBPCZK	9:30:00 AM	29.221	29.241			N/A
11/26/2018	GBPCZK	11:30:00 AM	29.214	29.231			N/A
11/26/2018	GBPCZK	1:30:00 PM	29.284	29.306			N/A
11/26/2018	GBPCZK	3:30:00 PM	29.29	29.308			N/A
11/26/2018	GBPDKK	9:30:00 AM	8.416	8.427			N/A
11/26/2018	GBPDKK	11:30:00 AM	8.414	8.425			N/A
11/26/2018	GBPDKK	1:30:00 PM	8.432	8.443			N/A
11/26/2018	GBPDKK	3:30:00 PM	8.431	8.442			N/A
11/26/2018	GBPHKD	9:30:00 AM	10.0332	10.0389			N/A
11/26/2018	GBPHKD	11:30:00 AM	10.037	10.0405			N/A
11/26/2018	GBPHKD	1:30:00 PM	10.0508	10.0559			N/A
11/26/2018	GBPHKD	3:30:00 PM	10.053	10.0569			N/A
11/26/2018	GBPHUF	9:30:00 AM	363.47	363.92			N/A
11/26/2018	GBPHUF	11:30:00 AM	363.46	363.54			N/A
11/26/2018	GBPHUF	1:30:00 PM	364.59	365.06			N/A
11/26/2018	GBPHUF	3:30:00 PM	364.7	365.13			N/A
11/26/2018	GBPJPY	9:30:00 AM	145.151	145.184			N/A
11/26/2018	GBPJPY	11:30:00 AM	145.369	145.376			N/A
11/26/2018	GBPJPY	1:30:00 PM	145.453	145.486			N/A
11/26/2018	GBPJPY	3:30:00 PM	145.527	145.552			N/A
11/26/2018	GBPMXN	9:30:00 AM	26.1033	26.1154			N/A
11/26/2018	GBPMXN	11:30:00 AM	26.147	26.1446			N/A
11/26/2018	GBPMXN	1:30:00 PM	26.2598	26.2691			N/A
11/26/2018	GBPMXN	3:30:00 PM	26.281	26.2925			N/A
11/26/2018	GBPNOK	9:30:00 AM	10.9735	10.9845			N/A
11/26/2018	GBPNOK	11:30:00 AM	10.966	10.9732			N/A
11/26/2018	GBPNOK	1:30:00 PM	10.9942	11.0042			N/A

11/26/2018	GBPNOK	3:30:00 PM	10.9965	11.0068			N/A
11/26/2018	GBPNZD	9:30:00 AM	1.88566	1.88637			N/A
11/26/2018	GBPNZD	11:30:00 AM	1.88384	1.88434			N/A
11/26/2018	GBPNZD	1:30:00 PM	1.88864	1.88929			N/A
11/26/2018	GBPNZD	3:30:00 PM	1.889	1.88945			N/A
11/26/2018	GBPPLN	9:30:00 AM	4.8391	4.8409			N/A
11/26/2018	GBPPLN	11:30:00 AM	4.838	4.8395			N/A
11/26/2018	GBPPLN	1:30:00 PM	4.8505	4.8521			N/A
11/26/2018	GBPPLN	3:30:00 PM	4.8521	4.8529			N/A
11/26/2018	GBPSEK	9:30:00 AM	11.6191	11.6283			N/A
11/26/2018	GBPSEK	11:30:00 AM	11.5973	11.6039			N/A
11/26/2018	GBPSEK	1:30:00 PM	11.6202	11.6279			N/A
11/26/2018	GBPSEK	3:30:00 PM	11.6359	11.6438			N/A
11/26/2018	GBPSGD	9:30:00 AM	1.7611	1.7618			N/A
11/26/2018	GBPSGD	11:30:00 AM	1.762	1.7625			N/A
11/26/2018	GBPSGD	1:30:00 PM	1.7643	1.765			N/A
11/26/2018	GBPSGD	3:30:00 PM	1.764	1.7646			N/A
11/26/2018	GBPUSD	9:30:00 AM	1.28265	1.28264		200	N/A
11/26/2018	GBPUSD	11:30:00 AM	1.28385	1.28358			N/A
11/26/2018	GBPUSD	1:30:00 PM	1.28542	1.28535			N/A
11/26/2018	GBPUSD	3:30:00 PM	1.28539	1.28521			N/A
11/26/2018	GBPZAR	9:30:00 AM	17.6502	17.678			N/A
11/26/2018	GBPZAR	11:30:00 AM	17.6799	17.6905			N/A
11/26/2018	GBPZAR	1:30:00 PM	17.75	17.7741			N/A
11/26/2018	GBPZAR	3:30:00 PM	17.7791	17.8058			N/A
11/26/2018	GOLD	9:30:00 AM	1226.88	1227.13			N/A
11/26/2018	GOLD	11:30:00 AM	1226.57	1226.81			N/A
11/26/2018	GOLD	1:30:00 PM	1225.75	1225.88			N/A
11/26/2018	GOLD	3:30:00 PM	1225.88	1225.86			N/A
11/26/2018	HKDJPY	9:30:00 AM	14.48	14.5			N/A
11/26/2018	HKDJPY	11:30:00 AM					N/A
11/26/2018	HKDJPY	1:30:00 PM					N/A
11/26/2018	HKDJPY	3:30:00 PM					N/A
11/26/2018	HUFJPY	9:30:00 AM					N/A
11/26/2018	HUFJPY	11:30:00 AM	0.3999	0.4002			N/A
11/26/2018	HUFJPY	1:30:00 PM	0.399	0.3993			N/A
11/26/2018	HUFJPY	3:30:00 PM	0.3988	0.3991			N/A
11/26/2018	MXNJPY	9:30:00 AM					N/A
11/26/2018	MXNJPY	11:30:00 AM					N/A
11/26/2018	MXNJPY	1:30:00 PM					N/A
11/26/2018	MXNJPY	3:30:00 PM					N/A
11/26/2018	NOKJPY	9:30:00 AM					N/A
11/26/2018	NOKJPY	11:30:00 AM					N/A
11/26/2018	NOKJPY	1:30:00 PM					N/A
11/26/2018	NOKJPY	3:30:00 PM					N/A
11/26/2018	NZDCAD	9:30:00 AM	0.89733	0.89804			N/A
11/26/2018	NZDCAD	11:30:00 AM	0.89844	0.89902			N/A
11/26/2018	NZDCAD	1:30:00 PM	0.8985	0.89913			N/A
11/26/2018	NZDCAD	3:30:00 PM	0.8983	0.89891			N/A
11/26/2018	NZDCHF	9:30:00 AM	0.67748	0.67814			N/A

11/26/2018	NZDCHF	11:30:00 AM	0.67815	0.67879			N/A
11/26/2018	NZDCHF	1:30:00 PM	0.67781	0.67852			N/A
11/26/2018	NZDCHF	3:30:00 PM	0.67791	0.67858			N/A
11/26/2018	NZDCZK	9:30:00 AM	15.493	15.504			N/A
11/26/2018	NZDCZK	11:30:00 AM	15.504	15.515			N/A
11/26/2018	NZDCZK	1:30:00 PM	15.501	15.513			N/A
11/26/2018	NZDCZK	3:30:00 PM	15.501	15.514			N/A
11/26/2018	NZDDKK	9:30:00 AM	4.463	4.467			N/A
11/26/2018	NZDDKK	11:30:00 AM	4.467	4.471			N/A
11/26/2018	NZDDKK	1:30:00 PM					N/A
11/26/2018	NZDDKK	3:30:00 PM					N/A
11/26/2018	NZDHKD	9:30:00 AM	5.3181	5.3208			N/A
11/26/2018	NZDHKD	11:30:00 AM	5.3259	5.3281			N/A
11/26/2018	NZDHKD	1:30:00 PM	5.3199	5.3227			N/A
11/26/2018	NZDHKD	3:30:00 PM	5.3198	5.3227			N/A
11/26/2018	NZDHUF	9:30:00 AM	192.68	192.97			N/A
11/26/2018	NZDHUF	11:30:00 AM	192.88	193.06			N/A
11/26/2018	NZDHUF	1:30:00 PM	192.96	193.26			N/A
11/26/2018	NZDHUF	3:30:00 PM	192.98	193.27			N/A
11/26/2018	NZDJPY	9:30:00 AM	76.936	77.004			N/A
11/26/2018	NZDJPY	11:30:00 AM	77.127	77.185			N/A
11/26/2018	NZDJPY	1:30:00 PM	76.977	77.043			N/A
11/26/2018	NZDJPY	3:30:00 PM	77.005	77.069			N/A
11/26/2018	NZDMXN	9:30:00 AM	13.8391	13.8441			N/A
11/26/2018	NZDMXN	11:30:00 AM	13.8752	13.8712			N/A
11/26/2018	NZDMXN	1:30:00 PM	13.9	13.9045			N/A
11/26/2018	NZDMXN	3:30:00 PM	13.9098	13.9156			N/A
11/26/2018	NZDNOK	9:30:00 AM	5.8173	5.8205			N/A
11/26/2018	NZDNOK	11:30:00 AM	5.8187	5.8209			N/A
11/26/2018	NZDNOK	1:30:00 PM	5.8183	5.8222			N/A
11/26/2018	NZDNOK	3:30:00 PM	5.8191	5.8228			N/A
11/26/2018	NZDPLN	9:30:00 AM	2.5652	2.5666			N/A
11/26/2018	NZDPLN	11:30:00 AM	2.5663	2.5673			N/A
11/26/2018	NZDPLN	1:30:00 PM	2.5667	2.5681			N/A
11/26/2018	NZDPLN	3:30:00 PM	2.5666	2.5679			N/A
11/26/2018	NZDSEK	9:30:00 AM	6.1575	6.1637			N/A
11/26/2018	NZDSEK	11:30:00 AM	6.1518	6.1569			N/A
11/26/2018	NZDSEK	1:30:00 PM	6.1483	6.1546			N/A
11/26/2018	NZDSEK	3:30:00 PM	6.1554	6.1622			N/A
11/26/2018	NZDSGD	9:30:00 AM	0.9338	0.9346			N/A
11/26/2018	NZDSGD	11:30:00 AM	0.9352	0.9358			N/A
11/26/2018	NZDSGD	1:30:00 PM	0.934	0.9348			N/A
11/26/2018	NZDSGD	3:30:00 PM	0.9337	0.9344			N/A
11/26/2018	NZDUSD	9:30:00 AM	0.67996	0.6801			N/A
11/26/2018	NZDUSD	11:30:00 AM	0.68131	0.68123			N/A
11/26/2018	NZDUSD	1:30:00 PM	0.68038	0.6803			N/A
11/26/2018	NZDUSD	3:30:00 PM	0.68029	0.68022			N/A
11/26/2018	NZDZAR	9:30:00 AM	9.3511	9.3684			N/A
11/26/2018	NZDZAR	11:30:00 AM	9.377	9.383			N/A
11/26/2018	NZDZAR	1:30:00 PM	9.3901	9.4049			N/A

11/26/2018	NZDZAR	3:30:00 PM	9.4031	9.4204			N/A
11/26/2018	SEKJPY	9:30:00 AM					N/A
11/26/2018	SEKJPY	11:30:00 AM					N/A
11/26/2018	SEKJPY	1:30:00 PM	12.52	12.53			N/A
11/26/2018	SEKJPY	3:30:00 PM					N/A
11/26/2018	SGDJPY	9:30:00 AM	82.38	82.41			N/A
11/26/2018	SGDJPY	11:30:00 AM	82.46	82.49			N/A
11/26/2018	SGDJPY	1:30:00 PM	82.41	82.43			N/A
11/26/2018	SGDJPY	3:30:00 PM	82.47	82.5			N/A
11/26/2018	SILVER	9:30:00 AM	14.19	14.58			N/A
11/26/2018	SILVER	11:30:00 AM	14.23	14.59			N/A
11/26/2018	SILVER	1:30:00 PM	14.16	14.55			N/A
11/26/2018	SILVER	3:30:00 PM	14.12	14.51			N/A
11/26/2018	USDCAD	9:30:00 AM	1.31993	1.32002			N/A
11/26/2018	USDCAD	11:30:00 AM	1.31909	1.3191			N/A
11/26/2018	USDCAD	1:30:00 PM	1.32091	1.32091			N/A
11/26/2018	USDCAD	3:30:00 PM	1.32089	1.32083			N/A
11/26/2018	USDCHF	9:30:00 AM	0.99667	0.99663			N/A
11/26/2018	USDCHF	11:30:00 AM	0.99578	0.99578			N/A
11/26/2018	USDCHF	1:30:00 PM	0.99661	0.99667			N/A
11/26/2018	USDCHF	3:30:00 PM	0.99662	0.99728			N/A
11/26/2018	USDCZK	9:30:00 AM	22.78	22.802			N/A
11/26/2018	USDCZK	11:30:00 AM	22.756	22.774			N/A
11/26/2018	USDCZK	1:30:00 PM	22.781	22.804			N/A
11/26/2018	USDCZK	3:30:00 PM	22.785	22.809			N/A
11/26/2018	USDDKK	9:30:00 AM	6.565	6.5697			N/A
11/26/2018	USDDKK	11:30:00 AM	6.5589	6.5625			N/A
11/26/2018	USDDKK	1:30:00 PM	6.5639	6.5688			N/A
11/26/2018	USDDKK	3:30:00 PM	6.5627	6.568			N/A
11/26/2018	USDHKD	9:30:00 AM	7.8247	7.8252			N/A
11/26/2018	USDHKD	11:30:00 AM					N/A
11/26/2018	USDHKD	1:30:00 PM	7.822	7.8224			N/A
11/26/2018	USDHKD	3:30:00 PM					N/A
11/26/2018	USDHUF	9:30:00 AM	283.43	283.87			N/A
11/26/2018	USDHUF	11:30:00 AM	283.18	283.64			N/A
11/26/2018	USDHUF	1:30:00 PM	283.7	284.14			N/A
11/26/2018	USDHUF	3:30:00 PM	283.78	284.23			N/A
11/26/2018	USDJPY	9:30:00 AM	113.183	113.187			N/A
11/26/2018	USDJPY	11:30:00 AM	113.251	113.233			N/A
11/26/2018	USDJPY	1:30:00 PM	113.184	113.179			N/A
11/26/2018	USDJPY	3:30:00 PM	113.247	113.239			N/A
11/26/2018	USDMXN	9:30:00 AM	20.359	20.367			N/A
11/26/2018	USDMXN	11:30:00 AM	20.375	20.372			N/A
11/26/2018	USDMXN	1:30:00 PM	20.439	20.44			N/A
11/26/2018	USDMXN	3:30:00 PM	20.457	20.463			N/A
11/26/2018	USDNOK	9:30:00 AM	8.557	8.5648			N/A
11/26/2018	USDNOK	11:30:00 AM	8.543	8.5493			N/A
11/26/2018	USDNOK	1:30:00 PM	8.5543	8.562			N/A
11/26/2018	USDNOK	3:30:00 PM	8.5558	8.565			N/A
11/26/2018	USDPLN	9:30:00 AM	3.7726	3.7739			N/A

11/26/2018	USDPLN	11:30:00 AM	3.769	3.7694			N/A
11/26/2018	USDPLN	1:30:00 PM	3.7735	3.7747			N/A
11/26/2018	USDPLN	3:30:00 PM	3.7747	3.7759			N/A
11/26/2018	USDRUR	9:30:00 AM					N/A
11/26/2018	USDRUR	11:30:00 AM	66.243	66.614			N/A
11/26/2018	USDRUR	1:30:00 PM	66.673	67.039			N/A
11/26/2018	USDRUR	3:30:00 PM	67.07	67.428			N/A
11/26/2018	USDSEK	9:30:00 AM	9.0583	9.0627			N/A
11/26/2018	USDSEK	11:30:00 AM	9.0346	9.0367			N/A
11/26/2018	USDSEK	1:30:00 PM	9.0398	9.0437			N/A
11/26/2018	USDSEK	3:30:00 PM	9.0521	9.0568			N/A
11/26/2018	USDSGD	9:30:00 AM					N/A
11/26/2018	USDSGD	11:30:00 AM	1.3726	1.3729			N/A
11/26/2018	USDSGD	1:30:00 PM	1.3728	1.373			N/A
11/26/2018	USDSGD	3:30:00 PM	1.3725	1.3728			N/A
11/26/2018	USDZAR	9:30:00 AM	13.7623	13.7786			N/A
11/26/2018	USDZAR	11:30:00 AM	13.7723	13.7808			N/A
11/26/2018	USDZAR	1:30:00 PM	13.8113	13.8279			N/A
11/26/2018	USDZAR	3:30:00 PM	13.834	13.8527			N/A
11/26/2018	XAUUSD	9:30:00 AM	1226.88	1227.12			N/A
11/26/2018	XAUUSD	11:30:00 AM	1226.57	1226.81			N/A
11/26/2018	XAUUSD	1:30:00 PM	1225.75	1225.88			N/A
11/26/2018	XAUUSD	3:30:00 PM	1225.88	1225.89			N/A
11/26/2018	ZARJPY	9:30:00 AM	8.15	8.19			N/A
11/26/2018	ZARJPY	11:30:00 AM					N/A
11/26/2018	ZARJPY	1:30:00 PM					N/A
11/26/2018	ZARJPY	3:30:00 PM					N/A
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11/27/2018	CADSEK	3:30:00 PM					N/A
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11/27/2018	CHFHKD	1:30:00 PM					N/A
11/27/2018	CHFHKD	3:30:00 PM					N/A
11/27/2018	CHFHUF	9:30:00 AM	285.88	286.07			N/A
11/27/2018	CHFHUF	11:30:00 AM					N/A
11/27/2018	CHFHUF	1:30:00 PM					N/A
11/27/2018	CHFHUF	3:30:00 PM					N/A
11/27/2018	CHFJPY	9:30:00 AM	113.607	113.609			N/A
11/27/2018	CHFJPY	11:30:00 AM					N/A
11/27/2018	CHFJPY	1:30:00 PM					N/A
11/27/2018	CHFJPY	3:30:00 PM					N/A
11/27/2018	CHFMXN	9:30:00 AM	20.5622	20.5665			N/A
11/27/2018	CHFMXN	11:30:00 AM					N/A
11/27/2018	CHFMXN	1:30:00 PM					N/A
11/27/2018	CHFMXN	3:30:00 PM					N/A
11/27/2018	CHFNOK	9:30:00 AM	8.6016	8.605			N/A
11/27/2018	CHFNOK	11:30:00 AM					N/A
11/27/2018	CHFNOK	1:30:00 PM					N/A
11/27/2018	CHFNOK	3:30:00 PM					N/A
11/27/2018	CHFPLN	9:30:00 AM	3.7968	3.797			N/A
11/27/2018	CHFPLN	11:30:00 AM					N/A
11/27/2018	CHFPLN	1:30:00 PM					N/A
11/27/2018	CHFPLN	3:30:00 PM					N/A
11/27/2018	CHFSEK	9:30:00 AM	9.1079	9.1078			N/A
11/27/2018	CHFSEK	11:30:00 AM					N/A
11/27/2018	CHFSEK	1:30:00 PM					N/A
11/27/2018	CHFSEK	3:30:00 PM					N/A
11/27/2018	CHFSGD	9:30:00 AM	1.3763	1.3765			N/A
11/27/2018	CHFSGD	11:30:00 AM					N/A
11/27/2018	CHFSGD	1:30:00 PM					N/A
11/27/2018	CHFSGD	3:30:00 PM					N/A
11/27/2018	CHFZAR	9:30:00 AM	13.8979	13.8751			N/A
11/27/2018	CHFZAR	11:30:00 AM					N/A
11/27/2018	CHFZAR	1:30:00 PM					N/A
11/27/2018	CHFZAR	3:30:00 PM					N/A
11/27/2018	CZKJPY	9:30:00 AM	4.957	4.957			N/A
11/27/2018	CZKJPY	11:30:00 AM					N/A
11/27/2018	CZKJPY	1:30:00 PM					N/A
11/27/2018	CZKJPY	3:30:00 PM					N/A
11/27/2018	DKKJPY	9:30:00 AM	17.23	17.25			N/A

11/27/2018	DKKJPY	11:30:00 AM					N/A
11/27/2018	DKKJPY	1:30:00 PM					N/A
11/27/2018	DKKJPY	3:30:00 PM					N/A
11/27/2018	EURAUD	9:30:00 AM	1.56382	1.5601			N/A
11/27/2018	EURAUD	11:30:00 AM					N/A
11/27/2018	EURAUD	1:30:00 PM					N/A
11/27/2018	EURAUD	3:30:00 PM					N/A
11/27/2018	EURCAD	9:30:00 AM	1.5002	1.50054			N/A
11/27/2018	EURCAD	11:30:00 AM					N/A
11/27/2018	EURCAD	1:30:00 PM					N/A
11/27/2018	EURCAD	3:30:00 PM					N/A
11/27/2018	EURCHF	9:30:00 AM	1.13141	1.13114			N/A
11/27/2018	EURCHF	11:30:00 AM					N/A
11/27/2018	EURCHF	1:30:00 PM					N/A
11/27/2018	EURCHF	3:30:00 PM					N/A
11/27/2018	EURCZK	9:30:00 AM	25.91	25.949			N/A
11/27/2018	EURCZK	11:30:00 AM					N/A
11/27/2018	EURCZK	1:30:00 PM					N/A
11/27/2018	EURCZK	3:30:00 PM					N/A
11/27/2018	EURDKK	9:30:00 AM	7.4608	7.462			N/A
11/27/2018	EURDKK	11:30:00 AM					N/A
11/27/2018	EURDKK	1:30:00 PM					N/A
11/27/2018	EURDKK	3:30:00 PM					N/A
11/27/2018	EURGBP	9:30:00 AM	0.88714	0.88672			N/A
11/27/2018	EURGBP	11:30:00 AM					N/A
11/27/2018	EURGBP	1:30:00 PM					N/A
11/27/2018	EURGBP	3:30:00 PM					N/A
11/27/2018	EURHKD	9:30:00 AM	8.8582	8.8579			N/A
11/27/2018	EURHKD	11:30:00 AM					N/A
11/27/2018	EURHKD	1:30:00 PM					N/A
11/27/2018	EURHKD	3:30:00 PM					N/A
11/27/2018	EURHUF	9:30:00 AM	323.27	323.85			N/A
11/27/2018	EURHUF	11:30:00 AM					N/A
11/27/2018	EURHUF	1:30:00 PM					N/A
11/27/2018	EURHUF	3:30:00 PM					N/A
11/27/2018	EURJPY	9:30:00 AM	128.598	128.47			N/A
11/27/2018	EURJPY	11:30:00 AM					N/A
11/27/2018	EURJPY	1:30:00 PM					N/A
11/27/2018	EURJPY	3:30:00 PM					N/A
11/27/2018	EURMXN	9:30:00 AM	23.261	23.2692			N/A
11/27/2018	EURMXN	11:30:00 AM					N/A
11/27/2018	EURMXN	1:30:00 PM					N/A
11/27/2018	EURMXN	3:30:00 PM					N/A
11/27/2018	EURNOK	9:30:00 AM	9.7286	9.7358			N/A
11/27/2018	EURNOK	11:30:00 AM					N/A
11/27/2018	EURNOK	1:30:00 PM					N/A
11/27/2018	EURNOK	3:30:00 PM					N/A
11/27/2018	EURNZD	9:30:00 AM	1.66832	1.6679			N/A
11/27/2018	EURNZD	11:30:00 AM					N/A
11/27/2018	EURNZD	1:30:00 PM					N/A

11/27/2018	EURNZD	3:30:00 PM					N/A
11/27/2018	EURPLN	9:30:00 AM	4.2946	4.2952			N/A
11/27/2018	EURPLN	11:30:00 AM					N/A
11/27/2018	EURPLN	1:30:00 PM					N/A
11/27/2018	EURPLN	3:30:00 PM					N/A
11/27/2018	EURRUR	9:30:00 AM					N/A
11/27/2018	EURRUR	11:30:00 AM					N/A
11/27/2018	EURRUR	1:30:00 PM					N/A
11/27/2018	EURRUR	3:30:00 PM					N/A
11/27/2018	EURSEK	9:30:00 AM	10.3014	10.3042			N/A
11/27/2018	EURSEK	11:30:00 AM					N/A
11/27/2018	EURSEK	1:30:00 PM					N/A
11/27/2018	EURSEK	3:30:00 PM					N/A
11/27/2018	EURSGD	9:30:00 AM	1.5566	1.5574			N/A
11/27/2018	EURSGD	11:30:00 AM					N/A
11/27/2018	EURSGD	1:30:00 PM					N/A
11/27/2018	EURSGD	3:30:00 PM					N/A
11/27/2018	EURUSD	9:30:00 AM	1.13245	1.13167	10	200	N/A
11/27/2018	EURUSD	11:30:00 AM					N/A
11/27/2018	EURUSD	1:30:00 PM					N/A
11/27/2018	EURUSD	3:30:00 PM					N/A
11/27/2018	EURZAR	9:30:00 AM	15.7258	15.6977			N/A
11/27/2018	EURZAR	11:30:00 AM					N/A
11/27/2018	EURZAR	1:30:00 PM					N/A
11/27/2018	EURZAR	3:30:00 PM					N/A
11/27/2018	GBPAUD	9:30:00 AM	1.76367	1.75903			N/A
11/27/2018	GBPAUD	11:30:00 AM					N/A
11/27/2018	GBPAUD	1:30:00 PM					N/A
11/27/2018	GBPAUD	3:30:00 PM					N/A
11/27/2018	GBPCAD	9:30:00 AM	1.6918	1.69163			N/A
11/27/2018	GBPCAD	11:30:00 AM					N/A
11/27/2018	GBPCAD	1:30:00 PM					N/A
11/27/2018	GBPCAD	3:30:00 PM					N/A
11/27/2018	GBPCHF	9:30:00 AM	1.27546	1.27576			N/A
11/27/2018	GBPCHF	11:30:00 AM					N/A
11/27/2018	GBPCHF	1:30:00 PM					N/A
11/27/2018	GBPCHF	3:30:00 PM					N/A
11/27/2018	GBPCZK	9:30:00 AM	29.233	29.243			N/A
11/27/2018	GBPCZK	11:30:00 AM					N/A
11/27/2018	GBPCZK	1:30:00 PM					N/A
11/27/2018	GBPCZK	3:30:00 PM					N/A
11/27/2018	GBPDKK	9:30:00 AM	8.411	8.42			N/A
11/27/2018	GBPDKK	11:30:00 AM					N/A
11/27/2018	GBPDKK	1:30:00 PM					N/A
11/27/2018	GBPDKK	3:30:00 PM					N/A
11/27/2018	GBPHKD	9:30:00 AM	9.9843	9.9884			N/A
11/27/2018	GBPHKD	11:30:00 AM					N/A
11/27/2018	GBPHKD	1:30:00 PM					N/A
11/27/2018	GBPHKD	3:30:00 PM					N/A
11/27/2018	GBPHUF	9:30:00 AM	364.61	364.78			N/A

11/27/2018	GBPHUF	11:30:00 AM					N/A
11/27/2018	GBPHUF	1:30:00 PM					N/A
11/27/2018	GBPHUF	3:30:00 PM					N/A
11/27/2018	GBPJPY	9:30:00 AM	144.952	144.926			N/A
11/27/2018	GBPJPY	11:30:00 AM					N/A
11/27/2018	GBPJPY	1:30:00 PM					N/A
11/27/2018	GBPJPY	3:30:00 PM					N/A
11/27/2018	GBPMXN	9:30:00 AM	26.2255	26.2227			N/A
11/27/2018	GBPMXN	11:30:00 AM					N/A
11/27/2018	GBPMXN	1:30:00 PM					N/A
11/27/2018	GBPMXN	3:30:00 PM					N/A
11/27/2018	GBPNOK	9:30:00 AM	10.9732	10.9741			N/A
11/27/2018	GBPNOK	11:30:00 AM					N/A
11/27/2018	GBPNOK	1:30:00 PM					N/A
11/27/2018	GBPNOK	3:30:00 PM					N/A
11/27/2018	GBPNZD	9:30:00 AM	1.88166	1.87999			N/A
11/27/2018	GBPNZD	11:30:00 AM					N/A
11/27/2018	GBPNZD	1:30:00 PM					N/A
11/27/2018	GBPNZD	3:30:00 PM					N/A
11/27/2018	GBPPLN	9:30:00 AM	4.8446	4.842			N/A
11/27/2018	GBPPLN	11:30:00 AM					N/A
11/27/2018	GBPPLN	1:30:00 PM					N/A
11/27/2018	GBPPLN	3:30:00 PM					N/A
11/27/2018	GBPSEK	9:30:00 AM	11.6161	11.6186			N/A
11/27/2018	GBPSEK	11:30:00 AM					N/A
11/27/2018	GBPSEK	1:30:00 PM					N/A
11/27/2018	GBPSEK	3:30:00 PM					N/A
11/27/2018	GBPSGD	9:30:00 AM	1.7556	1.7557			N/A
11/27/2018	GBPSGD	11:30:00 AM					N/A
11/27/2018	GBPSGD	1:30:00 PM					N/A
11/27/2018	GBPSGD	3:30:00 PM					N/A
11/27/2018	GBPUSD	9:30:00 AM	1.27672	1.27653			N/A
11/27/2018	GBPUSD	11:30:00 AM					N/A
11/27/2018	GBPUSD	1:30:00 PM					N/A
11/27/2018	GBPUSD	3:30:00 PM					N/A
11/27/2018	GBPZAR	9:30:00 AM	17.7263	17.7018			N/A
11/27/2018	GBPZAR	11:30:00 AM					N/A
11/27/2018	GBPZAR	1:30:00 PM					N/A
11/27/2018	GBPZAR	3:30:00 PM					N/A
11/27/2018	GOLD	9:30:00 AM	1221.49	1220.72			N/A
11/27/2018	GOLD	11:30:00 AM					N/A
11/27/2018	GOLD	1:30:00 PM					N/A
11/27/2018	GOLD	3:30:00 PM					N/A
11/27/2018	HKDJPY	9:30:00 AM					N/A
11/27/2018	HKDJPY	11:30:00 AM					N/A
11/27/2018	HKDJPY	1:30:00 PM					N/A
11/27/2018	HKDJPY	3:30:00 PM					N/A
11/27/2018	HUFJPY	9:30:00 AM	0.3978	0.3976			N/A
11/27/2018	HUFJPY	11:30:00 AM					N/A
11/27/2018	HUFJPY	1:30:00 PM					N/A

11/27/2018	HUFJPY	3:30:00 PM					N/A
11/27/2018	MXNJPY	9:30:00 AM	5.53	5.55			N/A
11/27/2018	MXNJPY	11:30:00 AM					N/A
11/27/2018	MXNJPY	1:30:00 PM					N/A
11/27/2018	MXNJPY	3:30:00 PM					N/A
11/27/2018	NOKJPY	9:30:00 AM	13.2	13.24			N/A
11/27/2018	NOKJPY	11:30:00 AM					N/A
11/27/2018	NOKJPY	1:30:00 PM					N/A
11/27/2018	NOKJPY	3:30:00 PM					N/A
11/27/2018	NZDCAD	9:30:00 AM	0.89945	0.89951			N/A
11/27/2018	NZDCAD	11:30:00 AM					N/A
11/27/2018	NZDCAD	1:30:00 PM					N/A
11/27/2018	NZDCAD	3:30:00 PM					N/A
11/27/2018	NZDCHF	9:30:00 AM	0.67825	0.67818			N/A
11/27/2018	NZDCHF	11:30:00 AM					N/A
11/27/2018	NZDCHF	1:30:00 PM					N/A
11/27/2018	NZDCHF	3:30:00 PM					N/A
11/27/2018	NZDCZK	9:30:00 AM	15.542	15.543			N/A
11/27/2018	NZDCZK	11:30:00 AM					N/A
11/27/2018	NZDCZK	1:30:00 PM					N/A
11/27/2018	NZDCZK	3:30:00 PM					N/A
11/27/2018	NZDDKK	9:30:00 AM	4.472	4.473			N/A
11/27/2018	NZDDKK	11:30:00 AM					N/A
11/27/2018	NZDDKK	1:30:00 PM					N/A
11/27/2018	NZDDKK	3:30:00 PM					N/A
11/27/2018	NZDHKD	9:30:00 AM	5.3101	5.306			N/A
11/27/2018	NZDHKD	11:30:00 AM					N/A
11/27/2018	NZDHKD	1:30:00 PM					N/A
11/27/2018	NZDHKD	3:30:00 PM					N/A
11/27/2018	NZDHUF	9:30:00 AM	193.73	193.96			N/A
11/27/2018	NZDHUF	11:30:00 AM					N/A
11/27/2018	NZDHUF	1:30:00 PM					N/A
11/27/2018	NZDHUF	3:30:00 PM					N/A
11/27/2018	NZDJPY	9:30:00 AM	77.094	77.02			N/A
11/27/2018	NZDJPY	11:30:00 AM					N/A
11/27/2018	NZDJPY	1:30:00 PM					N/A
11/27/2018	NZDJPY	3:30:00 PM					N/A
11/27/2018	NZDMXN	9:30:00 AM	13.9391	13.9396			N/A
11/27/2018	NZDMXN	11:30:00 AM					N/A
11/27/2018	NZDMXN	1:30:00 PM					N/A
11/27/2018	NZDMXN	3:30:00 PM					N/A
11/27/2018	NZDNOK	9:30:00 AM	5.8309	5.8322			N/A
11/27/2018	NZDNOK	11:30:00 AM					N/A
11/27/2018	NZDNOK	1:30:00 PM					N/A
11/27/2018	NZDNOK	3:30:00 PM					N/A
11/27/2018	NZDPLN	9:30:00 AM	2.5731	2.5736			N/A
11/27/2018	NZDPLN	11:30:00 AM					N/A
11/27/2018	NZDPLN	1:30:00 PM					N/A
11/27/2018	NZDPLN	3:30:00 PM					N/A
11/27/2018	NZDSEK	9:30:00 AM	6.1716	6.1755			N/A

11/27/2018	NZDSEK	11:30:00 AM					N/A
11/27/2018	NZDSEK	1:30:00 PM					N/A
11/27/2018	NZDSEK	3:30:00 PM					N/A
11/27/2018	NZDSGD	9:30:00 AM	0.9338	0.9336			N/A
11/27/2018	NZDSGD	11:30:00 AM					N/A
11/27/2018	NZDSGD	1:30:00 PM					N/A
11/27/2018	NZDSGD	3:30:00 PM					N/A
11/27/2018	NZDUSD	9:30:00 AM	0.67924	0.6781			N/A
11/27/2018	NZDUSD	11:30:00 AM					N/A
11/27/2018	NZDUSD	1:30:00 PM					N/A
11/27/2018	NZDUSD	3:30:00 PM					N/A
11/27/2018	NZDZAR	9:30:00 AM	9.4189	9.4116			N/A
11/27/2018	NZDZAR	11:30:00 AM					N/A
11/27/2018	NZDZAR	1:30:00 PM					N/A
11/27/2018	NZDZAR	3:30:00 PM					N/A
11/27/2018	SEKJPY	9:30:00 AM	12.48	12.5			N/A
11/27/2018	SEKJPY	11:30:00 AM					N/A
11/27/2018	SEKJPY	1:30:00 PM					N/A
11/27/2018	SEKJPY	3:30:00 PM					N/A
11/27/2018	SGDJPY	9:30:00 AM	82.55	82.51			N/A
11/27/2018	SGDJPY	11:30:00 AM					N/A
11/27/2018	SGDJPY	1:30:00 PM					N/A
11/27/2018	SGDJPY	3:30:00 PM					N/A
11/27/2018	SILVER	9:30:00 AM	14.04	14.38			N/A
11/27/2018	SILVER	11:30:00 AM					N/A
11/27/2018	SILVER	1:30:00 PM					N/A
11/27/2018	SILVER	3:30:00 PM					N/A
11/27/2018	USDCAD	9:30:00 AM	1.32569	1.32461			N/A
11/27/2018	USDCAD	11:30:00 AM					N/A
11/27/2018	USDCAD	1:30:00 PM					N/A
11/27/2018	USDCAD	3:30:00 PM					N/A
11/27/2018	USDCHF	9:30:00 AM	0.99933	0.99913			N/A
11/27/2018	USDCHF	11:30:00 AM					N/A
11/27/2018	USDCHF	1:30:00 PM					N/A
11/27/2018	USDCHF	3:30:00 PM					N/A
11/27/2018	USDCZK	9:30:00 AM	22.902	22.914			N/A
11/27/2018	USDCZK	11:30:00 AM					N/A
11/27/2018	USDCZK	1:30:00 PM					N/A
11/27/2018	USDCZK	3:30:00 PM					N/A
11/27/2018	USDDKK	9:30:00 AM	6.5929	6.5942			N/A
11/27/2018	USDDKK	11:30:00 AM					N/A
11/27/2018	USDDKK	1:30:00 PM					N/A
11/27/2018	USDDKK	3:30:00 PM					N/A
11/27/2018	USDHKD	9:30:00 AM					N/A
11/27/2018	USDHKD	11:30:00 AM					N/A
11/27/2018	USDHKD	1:30:00 PM					N/A
11/27/2018	USDHKD	3:30:00 PM					N/A
11/27/2018	USDHUF	9:30:00 AM	285.73	285.85			N/A
11/27/2018	USDHUF	11:30:00 AM					N/A
11/27/2018	USDHUF	1:30:00 PM					N/A

11/27/2018	USDHUF	3:30:00 PM					N/A
11/27/2018	USDJPY	9:30:00 AM	113.567	113.526			N/A
11/27/2018	USDJPY	11:30:00 AM					N/A
11/27/2018	USDJPY	1:30:00 PM					N/A
11/27/2018	USDJPY	3:30:00 PM					N/A
11/27/2018	USDMXN	9:30:00 AM	20.556	20.545			N/A
11/27/2018	USDMXN	11:30:00 AM					N/A
11/27/2018	USDMXN	1:30:00 PM					N/A
11/27/2018	USDMXN	3:30:00 PM					N/A
11/27/2018	USDNOK	9:30:00 AM	8.5973	8.5973			N/A
11/27/2018	USDNOK	11:30:00 AM					N/A
11/27/2018	USDNOK	1:30:00 PM					N/A
11/27/2018	USDNOK	3:30:00 PM					N/A
11/27/2018	USDPLN	9:30:00 AM	3.7953	3.7924			N/A
11/27/2018	USDPLN	11:30:00 AM					N/A
11/27/2018	USDPLN	1:30:00 PM					N/A
11/27/2018	USDPLN	3:30:00 PM					N/A
11/27/2018	USDRUR	9:30:00 AM					N/A
11/27/2018	USDRUR	11:30:00 AM					N/A
11/27/2018	USDRUR	1:30:00 PM					N/A
11/27/2018	USDRUR	3:30:00 PM					N/A
11/27/2018	USDSEK	9:30:00 AM	9.1001	9.0973			N/A
11/27/2018	USDSEK	11:30:00 AM					N/A
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12/10/2018	#YHOO	3:30:00 PM					N/A
12/10/2018	#ZNGA	9:30:00 AM					N/A
12/10/2018	#ZNGA	11:30:00 AM					N/A
12/10/2018	#ZNGA	1:30:00 PM					N/A
12/10/2018	#ZNGA	3:30:00 PM					N/A
12/10/2018	AUDCAD	9:30:00 AM	0.95953	0.96006			N/A
12/10/2018	AUDCAD	11:30:00 AM	0.96061	0.96129			N/A
12/10/2018	AUDCAD	1:30:00 PM	0.96086	0.96145			N/A
12/10/2018	AUDCAD	3:30:00 PM	0.96048	0.96092			N/A
12/10/2018	AUDCHF	9:30:00 AM	0.7128	0.71329			N/A
12/10/2018	AUDCHF	11:30:00 AM	0.71398	0.71467			N/A
12/10/2018	AUDCHF	1:30:00 PM	0.71384	0.71432			N/A
12/10/2018	AUDCHF	3:30:00 PM	0.7128	0.71341			N/A
12/10/2018	AUDCZK	9:30:00 AM	16.304	16.316			N/A
12/10/2018	AUDCZK	11:30:00 AM	16.336	16.352			N/A
12/10/2018	AUDCZK	1:30:00 PM	16.342	16.355			N/A
12/10/2018	AUDCZK	3:30:00 PM	16.316	16.331			N/A
12/10/2018	AUDDKK	9:30:00 AM	4.7093	4.7126			N/A
12/10/2018	AUDDKK	11:30:00 AM	4.7167	4.7209			N/A
12/10/2018	AUDDKK	1:30:00 PM	4.7187	4.7228			N/A
12/10/2018	AUDDKK	3:30:00 PM	4.7099	4.7141			N/A
12/10/2018	AUDHKD	9:30:00 AM	5.6333	5.6358			N/A
12/10/2018	AUDHKD	11:30:00 AM	5.637	5.6409			N/A
12/10/2018	AUDHKD	1:30:00 PM	5.6414	5.6451			N/A
12/10/2018	AUDHKD	3:30:00 PM	5.6305	5.6342			N/A
12/10/2018	AUDHUF	9:30:00 AM	203.6	203.78			N/A
12/10/2018	AUDHUF	11:30:00 AM	204.15	204.36			N/A
12/10/2018	AUDHUF	1:30:00 PM	204.26	204.34			N/A
12/10/2018	AUDHUF	3:30:00 PM	203.87	204.09			N/A
12/10/2018	AUDJPY	9:30:00 AM	81.192	81.236			N/A
12/10/2018	AUDJPY	11:30:00 AM	81.323	81.381			N/A
12/10/2018	AUDJPY	1:30:00 PM	81.324	81.384			N/A
12/10/2018	AUDJPY	3:30:00 PM	81.328	81.382			N/A
12/10/2018	AUDMXN	9:30:00 AM	14.6083	14.6127			N/A
12/10/2018	AUDMXN	11:30:00 AM	14.6118	14.6209			N/A
12/10/2018	AUDMXN	1:30:00 PM	14.5915	14.5992			N/A

12/10/2018	AUDMXN	3:30:00 PM	14.6042	14.6095			N/A
12/10/2018	AUDNOK	9:30:00 AM	6.0982	6.1014			N/A
12/10/2018	AUDNOK	11:30:00 AM	6.1131	6.1168			N/A
12/10/2018	AUDNOK	1:30:00 PM	6.1155	6.1201			N/A
12/10/2018	AUDNOK	3:30:00 PM	6.1152	6.1184			N/A
12/10/2018	AUDNZD	9:30:00 AM	1.04687	1.04771			N/A
12/10/2018	AUDNZD	11:30:00 AM	1.04758	1.04842			N/A
12/10/2018	AUDNZD	1:30:00 PM	1.04687	1.0477			N/A
12/10/2018	AUDNZD	3:30:00 PM	1.04699	1.04765			N/A
12/10/2018	AUDPLN	9:30:00 AM	2.7042	2.7066			N/A
12/10/2018	AUDPLN	11:30:00 AM	2.7113	2.7142			N/A
12/10/2018	AUDPLN	1:30:00 PM	2.7137	2.7164			N/A
12/10/2018	AUDPLN	3:30:00 PM	2.7086	2.7114			N/A
12/10/2018	AUDSEK	9:30:00 AM	6.5047	6.5054			N/A
12/10/2018	AUDSEK	11:30:00 AM	6.5227	6.521			N/A
12/10/2018	AUDSEK	1:30:00 PM	6.528	6.5307			N/A
12/10/2018	AUDSEK	3:30:00 PM	6.5215	6.5237			N/A
12/10/2018	AUDSGD	9:30:00 AM	0.9888	0.9888			N/A
12/10/2018	AUDSGD	11:30:00 AM	0.9891	0.9893			N/A
12/10/2018	AUDSGD	1:30:00 PM	0.9893	0.9896			N/A
12/10/2018	AUDSGD	3:30:00 PM	0.9887	0.9888			N/A
12/10/2018	AUDUSD	9:30:00 AM	0.72138	0.72126			N/A
12/10/2018	AUDUSD	11:30:00 AM	0.72177	0.72181			N/A
12/10/2018	AUDUSD	1:30:00 PM	0.72214	0.72223			N/A
12/10/2018	AUDUSD	3:30:00 PM	0.72092	0.72085			N/A
12/10/2018	AUDZAR	9:30:00 AM	10.1745	10.1856			N/A
12/10/2018	AUDZAR	11:30:00 AM	10.2221	10.2374			N/A
12/10/2018	AUDZAR	1:30:00 PM	10.2674	10.277			N/A
12/10/2018	AUDZAR	3:30:00 PM	10.3179	10.331			N/A
12/10/2018	CADCHF	9:30:00 AM	0.74256	0.74319			N/A
12/10/2018	CADCHF	11:30:00 AM	0.74299	0.7437			N/A
12/10/2018	CADCHF	1:30:00 PM	0.74271	0.74312			N/A
12/10/2018	CADCHF	3:30:00 PM	0.742	0.74252			N/A
12/10/2018	CADCZK	9:30:00 AM	16.99	17.003			N/A
12/10/2018	CADCZK	11:30:00 AM	17.005	17.021			N/A
12/10/2018	CADCZK	1:30:00 PM	17.01	17.019			N/A
12/10/2018	CADCZK	3:30:00 PM	16.99	17.002			N/A
12/10/2018	CADDKK	9:30:00 AM	4.908	4.911			N/A
12/10/2018	CADDKK	11:30:00 AM	4.91	4.914			N/A
12/10/2018	CADDKK	1:30:00 PM	4.911	4.914			N/A
12/10/2018	CADDKK	3:30:00 PM					N/A
12/10/2018	CADHKD	9:30:00 AM	5.87	5.8735			N/A
12/10/2018	CADHKD	11:30:00 AM	5.8678	5.8717			N/A
12/10/2018	CADHKD	1:30:00 PM	5.871	5.8747			N/A
12/10/2018	CADHKD	3:30:00 PM	5.8625	5.8663			N/A
12/10/2018	CADHUF	9:30:00 AM	212.2	212.33			N/A
12/10/2018	CADHUF	11:30:00 AM	212.53	212.67			N/A
12/10/2018	CADHUF	1:30:00 PM	212.6	212.61			N/A
12/10/2018	CADHUF	3:30:00 PM	212.34	212.45			N/A
12/10/2018	CADJPY	9:30:00 AM	84.584	84.64			N/A

12/10/2018	CADJPY	11:30:00 AM	84.625	84.689			N/A
12/10/2018	CADJPY	1:30:00 PM	84.617	84.664			N/A
12/10/2018	CADJPY	3:30:00 PM	84.66	84.711			N/A
12/10/2018	CADMXN	9:30:00 AM	15.2214	15.2316			N/A
12/10/2018	CADMXN	11:30:00 AM	15.2087	15.2199			N/A
12/10/2018	CADMXN	1:30:00 PM	15.1847	15.1932			N/A
12/10/2018	CADMXN	3:30:00 PM	15.204	15.2114			N/A
12/10/2018	CADNOK	9:30:00 AM	6.3524	6.3561			N/A
12/10/2018	CADNOK	11:30:00 AM	6.3603	6.365			N/A
12/10/2018	CADNOK	1:30:00 PM	6.3625	6.3667			N/A
12/10/2018	CADNOK	3:30:00 PM	6.3644	6.368			N/A
12/10/2018	CADPLN	9:30:00 AM	2.8175	2.8188			N/A
12/10/2018	CADPLN	11:30:00 AM	2.8214	2.8232			N/A
12/10/2018	CADPLN	1:30:00 PM	2.8243	2.8258			N/A
12/10/2018	CADPLN	3:30:00 PM	2.8204	2.8219			N/A
12/10/2018	CADSEK	9:30:00 AM	6.7754	6.7773			N/A
12/10/2018	CADSEK	11:30:00 AM	6.7863	6.7856			N/A
12/10/2018	CADSEK	1:30:00 PM	6.7916	6.7941			N/A
12/10/2018	CADSEK	3:30:00 PM	6.7863	6.7901			N/A
12/10/2018	CADSGD	9:30:00 AM	1.0302	1.0305			N/A
12/10/2018	CADSGD	11:30:00 AM	1.0293	1.0296			N/A
12/10/2018	CADSGD	1:30:00 PM	1.0294	1.0298			N/A
12/10/2018	CADSGD	3:30:00 PM	1.0293	1.0296			N/A
12/10/2018	CADZAR	9:30:00 AM	10.6029	10.6173			N/A
12/10/2018	CADZAR	11:30:00 AM	10.6395	10.6571			N/A
12/10/2018	CADZAR	1:30:00 PM	10.684	10.6977			N/A
12/10/2018	CADZAR	3:30:00 PM	10.7434	10.7567			N/A
12/10/2018	CHFCZK	9:30:00 AM	22.874	22.887			N/A
12/10/2018	CHFCZK	11:30:00 AM	22.882	22.896			N/A
12/10/2018	CHFCZK	1:30:00 PM	22.897	22.905			N/A
12/10/2018	CHFCZK	3:30:00 PM	22.891	22.906			N/A
12/10/2018	CHFDKK	9:30:00 AM	6.606	6.608			N/A
12/10/2018	CHFDKK	11:30:00 AM	6.605	6.607			N/A
12/10/2018	CHFDKK	1:30:00 PM	6.61	6.612			N/A
12/10/2018	CHFDKK	3:30:00 PM	6.606	6.609			N/A
12/10/2018	CHFHKD	9:30:00 AM	7.9027	7.9066			N/A
12/10/2018	CHFHKD	11:30:00 AM	7.8943	7.8981			N/A
12/10/2018	CHFHKD	1:30:00 PM	7.9037	7.9059			N/A
12/10/2018	CHFHKD	3:30:00 PM	7.9003	7.9027			N/A
12/10/2018	CHFHUF	9:30:00 AM	285.57	285.92			N/A
12/10/2018	CHFHUF	11:30:00 AM	285.86	286.22			N/A
12/10/2018	CHFHUF	1:30:00 PM	286.09	286.3			N/A
12/10/2018	CHFHUF	3:30:00 PM	285.97	286.34			N/A
12/10/2018	CHFJPY	9:30:00 AM	113.873	113.928			N/A
12/10/2018	CHFJPY	11:30:00 AM	113.854	113.914			N/A
12/10/2018	CHFJPY	1:30:00 PM	113.91	113.952			N/A
12/10/2018	CHFJPY	3:30:00 PM	114.056	114.121			N/A
12/10/2018	CHFMXN	9:30:00 AM	20.4898	20.5043			N/A
12/10/2018	CHFMXN	11:30:00 AM	20.4616	20.4767			N/A
12/10/2018	CHFMXN	1:30:00 PM	20.4412	20.4496			N/A

12/10/2018	CHFMXN	3:30:00 PM	20.4864	20.4937			N/A
12/10/2018	CHFNOK	9:30:00 AM	8.5511	8.5581			N/A
12/10/2018	CHFNOK	11:30:00 AM	8.5582	8.5637			N/A
12/10/2018	CHFNOK	1:30:00 PM	8.5647	8.5701			N/A
12/10/2018	CHFNOK	3:30:00 PM	8.5744	8.5805			N/A
12/10/2018	CHFPLN	9:30:00 AM	3.7931	3.7957			N/A
12/10/2018	CHFPLN	11:30:00 AM	3.7968	3.7994			N/A
12/10/2018	CHFPLN	1:30:00 PM	3.8014	3.8034			N/A
12/10/2018	CHFPLN	3:30:00 PM	3.7987	3.8015			N/A
12/10/2018	CHFSEK	9:30:00 AM	9.1214	9.123			N/A
12/10/2018	CHFSEK	11:30:00 AM	9.1307	9.1286			N/A
12/10/2018	CHFSEK	1:30:00 PM	9.1422	9.1447			N/A
12/10/2018	CHFSEK	3:30:00 PM	9.1442	9.1478			N/A
12/10/2018	CHFSGD	9:30:00 AM	1.3866	1.387			N/A
12/10/2018	CHFSGD	11:30:00 AM	1.3846	1.3851			N/A
12/10/2018	CHFSGD	1:30:00 PM	1.3856	1.3857			N/A
12/10/2018	CHFSGD	3:30:00 PM	1.3865	1.3867			N/A
12/10/2018	CHFZAR	9:30:00 AM	14.2786	14.2878			N/A
12/10/2018	CHFZAR	11:30:00 AM	14.3182	14.3337			N/A
12/10/2018	CHFZAR	1:30:00 PM	14.3876	14.392			N/A
12/10/2018	CHFZAR	3:30:00 PM	14.4778	14.4883			N/A
12/10/2018	CZKJPY	9:30:00 AM	4.977	4.981			N/A
12/10/2018	CZKJPY	11:30:00 AM	4.975	4.979			N/A
12/10/2018	CZKJPY	1:30:00 PM	4.974	4.978			N/A
12/10/2018	CZKJPY	3:30:00 PM					N/A
12/10/2018	DKKJPY	9:30:00 AM					N/A
12/10/2018	DKKJPY	11:30:00 AM					N/A
12/10/2018	DKKJPY	1:30:00 PM					N/A
12/10/2018	DKKJPY	3:30:00 PM	17.27	17.28			N/A
12/10/2018	EURAUD	9:30:00 AM	1.58407	1.58393			N/A
12/10/2018	EURAUD	11:30:00 AM	1.5812	1.5814			N/A
12/10/2018	EURAUD	1:30:00 PM	1.58048	1.58065			N/A
12/10/2018	EURAUD	3:30:00 PM	1.5833	1.58349			N/A
12/10/2018	EURCAD	9:30:00 AM	1.52068	1.52123			N/A
12/10/2018	EURCAD	11:30:00 AM	1.51983	1.52049			N/A
12/10/2018	EURCAD	1:30:00 PM	1.51957	1.51991			N/A
12/10/2018	EURCAD	3:30:00 PM	1.52155	1.52203			N/A
12/10/2018	EURCHF	9:30:00 AM	1.12987	1.12985			N/A
12/10/2018	EURCHF	11:30:00 AM	1.13002	1.12993			N/A
12/10/2018	EURCHF	1:30:00 PM	1.12916	1.129			N/A
12/10/2018	EURCHF	3:30:00 PM	1.12952	1.12957			N/A
12/10/2018	EURCZK	9:30:00 AM	25.828	25.867			N/A
12/10/2018	EURCZK	11:30:00 AM	25.839	25.878			N/A
12/10/2018	EURCZK	1:30:00 PM	25.835	25.869			N/A
12/10/2018	EURCZK	3:30:00 PM	25.841	25.879			N/A
12/10/2018	EURDKK	9:30:00 AM	7.4641	7.4649			N/A
12/10/2018	EURDKK	11:30:00 AM	7.4635	7.4647			N/A
12/10/2018	EURDKK	1:30:00 PM	7.4635	7.4647			N/A
12/10/2018	EURDKK	3:30:00 PM	7.4632	7.4643			N/A
12/10/2018	EURGBP	9:30:00 AM	0.89778	0.89788			N/A

12/10/2018	EURGBP	11:30:00 AM	0.89773	0.89716			N/A
12/10/2018	EURGBP	1:30:00 PM	0.89884	0.8982			N/A
12/10/2018	EURGBP	3:30:00 PM	0.90391	0.90384			N/A
12/10/2018	EURHKD	9:30:00 AM	8.9283	8.9321			N/A
12/10/2018	EURHKD	11:30:00 AM	8.9202	8.9236			N/A
12/10/2018	EURHKD	1:30:00 PM	8.9221	8.9255			N/A
12/10/2018	EURHKD	3:30:00 PM	8.9228	8.9252			N/A
12/10/2018	EURHUF	9:30:00 AM	322.54	323.28			N/A
12/10/2018	EURHUF	11:30:00 AM	322.9	323.54			N/A
12/10/2018	EURHUF	1:30:00 PM	322.86	323.29			N/A
12/10/2018	EURHUF	3:30:00 PM	322.87	323.58			N/A
12/10/2018	EURJPY	9:30:00 AM	128.688	128.687			N/A
12/10/2018	EURJPY	11:30:00 AM	128.698	128.675			N/A
12/10/2018	EURJPY	1:30:00 PM	128.633	128.632			N/A
12/10/2018	EURJPY	3:30:00 PM	128.868	128.861			N/A
12/10/2018	EURMXN	9:30:00 AM	23.1532	23.1685			N/A
12/10/2018	EURMXN	11:30:00 AM	23.1229	23.1416			N/A
12/10/2018	EURMXN	1:30:00 PM	23.0802	23.0967			N/A
12/10/2018	EURMXN	3:30:00 PM	23.1443	23.1539			N/A
12/10/2018	EURNOK	9:30:00 AM	9.6596	9.6706			N/A
12/10/2018	EURNOK	11:30:00 AM	9.6684	9.6791			N/A
12/10/2018	EURNOK	1:30:00 PM	9.6675	9.679			N/A
12/10/2018	EURNOK	3:30:00 PM	9.6841	9.6936			N/A
12/10/2018	EURNZD	9:30:00 AM	1.65938	1.65975			N/A
12/10/2018	EURNZD	11:30:00 AM	1.65747	1.65814			N/A
12/10/2018	EURNZD	1:30:00 PM	1.65569	1.65625			N/A
12/10/2018	EURNZD	3:30:00 PM	1.65878	1.65912			N/A
12/10/2018	EURPLN	9:30:00 AM	4.2857	4.2882			N/A
12/10/2018	EURPLN	11:30:00 AM	4.2902	4.2928			N/A
12/10/2018	EURPLN	1:30:00 PM	4.2913	4.2945			N/A
12/10/2018	EURPLN	3:30:00 PM	4.2909	4.2942			N/A
12/10/2018	EURRUR	9:30:00 AM					N/A
12/10/2018	EURRUR	11:30:00 AM	75.259	75.688			N/A
12/10/2018	EURRUR	1:30:00 PM	75.48	75.918			N/A
12/10/2018	EURRUR	3:30:00 PM	75.679	76.09			N/A
12/10/2018	EURSEK	9:30:00 AM	10.3058	10.3102			N/A
12/10/2018	EURSEK	11:30:00 AM	10.3182	10.3159			N/A
12/10/2018	EURSEK	1:30:00 PM	10.322	10.3262			N/A
12/10/2018	EURSEK	3:30:00 PM	10.3298	10.3326			N/A
12/10/2018	EURSGD	9:30:00 AM	1.5666	1.5671			N/A
12/10/2018	EURSGD	11:30:00 AM	1.5645	1.5652			N/A
12/10/2018	EURSGD	1:30:00 PM	1.5642	1.5648			N/A
12/10/2018	EURSGD	3:30:00 PM	1.566	1.5666			N/A
12/10/2018	EURUSD	9:30:00 AM	1.14288	1.14281			N/A
12/10/2018	EURUSD	11:30:00 AM	1.14168	1.14155			N/A
12/10/2018	EURUSD	1:30:00 PM	1.14182	1.14169			N/A
12/10/2018	EURUSD	3:30:00 PM	1.14191	1.14166			N/A
12/10/2018	EURZAR	9:30:00 AM	16.1349	16.1474			N/A
12/10/2018	EURZAR	11:30:00 AM	16.1834	16.2019			N/A
12/10/2018	EURZAR	1:30:00 PM	16.2461	16.2566			N/A

12/10/2018	EURZAR	3:30:00 PM	16.3545	16.3691			N/A
12/10/2018	GBPAUD	9:30:00 AM	1.76488	1.76489			N/A
12/10/2018	GBPAUD	11:30:00 AM	1.76301	1.76255			N/A
12/10/2018	GBPAUD	1:30:00 PM	1.76015	1.75927			N/A
12/10/2018	GBPAUD	3:30:00 PM	1.7523	1.75251			N/A
12/10/2018	GBPCAD	9:30:00 AM	1.6938	1.69421			N/A
12/10/2018	GBPCAD	11:30:00 AM	1.69409	1.69365			N/A
12/10/2018	GBPCAD	1:30:00 PM	1.69182	1.69081			N/A
12/10/2018	GBPCAD	3:30:00 PM	1.68333	1.68376			N/A
12/10/2018	GBPCHF	9:30:00 AM	1.25834	1.25855			N/A
12/10/2018	GBPCHF	11:30:00 AM	1.25939	1.25905			N/A
12/10/2018	GBPCHF	1:30:00 PM	1.25672	1.25638			N/A
12/10/2018	GBPCHF	3:30:00 PM	1.24957	1.2498			N/A
12/10/2018	GBPCZK	9:30:00 AM	28.777	28.798			N/A
12/10/2018	GBPCZK	11:30:00 AM	28.81	28.817			N/A
12/10/2018	GBPCZK	1:30:00 PM	28.768	28.775			N/A
12/10/2018	GBPCZK	3:30:00 PM	28.599	28.617			N/A
12/10/2018	GBPDKK	9:30:00 AM	8.31	8.32			N/A
12/10/2018	GBPDKK	11:30:00 AM	8.315	8.322			N/A
12/10/2018	GBPDKK	1:30:00 PM	8.305	8.31			N/A
12/10/2018	GBPDKK	3:30:00 PM	8.254	8.263			N/A
12/10/2018	GBPHKD	9:30:00 AM	9.9427	9.947			N/A
12/10/2018	GBPHKD	11:30:00 AM	9.9409	9.9406			N/A
12/10/2018	GBPHKD	1:30:00 PM	9.9319	9.9291			N/A
12/10/2018	GBPHKD	3:30:00 PM	9.8694	9.8721			N/A
12/10/2018	GBPHUF	9:30:00 AM	359.29	359.75			N/A
12/10/2018	GBPHUF	11:30:00 AM	359.95	360.24			N/A
12/10/2018	GBPHUF	1:30:00 PM	359.51	359.57			N/A
12/10/2018	GBPHUF	3:30:00 PM	357.31	357.69			N/A
12/10/2018	GBPJPY	9:30:00 AM	143.322	143.346			N/A
12/10/2018	GBPJPY	11:30:00 AM	143.435	143.369			N/A
12/10/2018	GBPJPY	1:30:00 PM	143.207	143.122			N/A
12/10/2018	GBPJPY	3:30:00 PM	142.571	142.578			N/A
12/10/2018	GBPMXN	9:30:00 AM	25.7806	25.7922			N/A
12/10/2018	GBPMXN	11:30:00 AM	25.7671	25.7657			N/A
12/10/2018	GBPMXN	1:30:00 PM	25.6895	25.6849			N/A
12/10/2018	GBPMXN	3:30:00 PM	25.5967	25.6004			N/A
12/10/2018	GBPNOK	9:30:00 AM	10.7603	10.7695			N/A
12/10/2018	GBPNOK	11:30:00 AM	10.777	10.782			N/A
12/10/2018	GBPNOK	1:30:00 PM	10.7646	10.7668			N/A
12/10/2018	GBPNOK	3:30:00 PM	10.7138	10.7238			N/A
12/10/2018	GBPNZD	9:30:00 AM	1.84836	1.84848			N/A
12/10/2018	GBPNZD	11:30:00 AM	1.84751	1.84731			N/A
12/10/2018	GBPNZD	1:30:00 PM	1.84339	1.84244			N/A
12/10/2018	GBPNZD	3:30:00 PM	1.83517	1.83564			N/A
12/10/2018	GBPPLN	9:30:00 AM	4.7742	4.7751			N/A
12/10/2018	GBPPLN	11:30:00 AM	4.7827	4.7819			N/A
12/10/2018	GBPPLN	1:30:00 PM	4.7784	4.7768			N/A
12/10/2018	GBPPLN	3:30:00 PM	4.7485	4.7494			N/A
12/10/2018	GBPSEK	9:30:00 AM	11.4767	11.4855			N/A

12/10/2018	GBPSEK	11:30:00 AM	11.4953	11.4976			N/A
12/10/2018	GBPSEK	1:30:00 PM	11.4902	11.4898			N/A
12/10/2018	GBPSEK	3:30:00 PM	11.426	11.4322			N/A
12/10/2018	GBPSGD	9:30:00 AM	1.7449	1.7454			N/A
12/10/2018	GBPSGD	11:30:00 AM	1.744	1.7435			N/A
12/10/2018	GBPSGD	1:30:00 PM	1.7415	1.7408			N/A
12/10/2018	GBPSGD	3:30:00 PM	1.7325	1.7329			N/A
12/10/2018	GBPUSD	9:30:00 AM	1.27308	1.27297			N/A
12/10/2018	GBPUSD	11:30:00 AM	1.27276	1.2719	39000	39000	N/A
12/10/2018	GBPUSD	1:30:00 PM	1.27144	1.27032			N/A
12/10/2018	GBPUSD	3:30:00 PM	1.26344	1.26304			N/A
12/10/2018	GBPZAR	9:30:00 AM	17.967	17.9895			N/A
12/10/2018	GBPZAR	11:30:00 AM	18.0346	18.0541			N/A
12/10/2018	GBPZAR	1:30:00 PM	18.083	18.0881			N/A
12/10/2018	GBPZAR	3:30:00 PM	18.0883	18.1118			N/A
12/10/2018	GOLD	9:30:00 AM	1247.6	1247.32			N/A
12/10/2018	GOLD	11:30:00 AM	1246.55	1246.76			N/A
12/10/2018	GOLD	1:30:00 PM	1247.42	1247.41			N/A
12/10/2018	GOLD	3:30:00 PM	1244.41	1244.49			N/A
12/10/2018	HKDJPY	9:30:00 AM	14.41	14.42			N/A
12/10/2018	HKDJPY	11:30:00 AM	14.42	14.43			N/A
12/10/2018	HKDJPY	1:30:00 PM	14.41	14.42			N/A
12/10/2018	HKDJPY	3:30:00 PM	14.44	14.45			N/A
12/10/2018	HUFJPY	9:30:00 AM	0.3985	0.3988			N/A
12/10/2018	HUFJPY	11:30:00 AM	0.3985	0.3988			N/A
12/10/2018	HUFJPY	1:30:00 PM	0.3981	0.3984			N/A
12/10/2018	HUFJPY	3:30:00 PM	0.3987	0.399			N/A
12/10/2018	MXNJPY	9:30:00 AM	5.56	5.57			N/A
12/10/2018	MXNJPY	11:30:00 AM	5.56	5.57			N/A
12/10/2018	MXNJPY	1:30:00 PM					N/A
12/10/2018	MXNJPY	3:30:00 PM	5.57	5.58			N/A
12/10/2018	NOKJPY	9:30:00 AM	13.3	13.33			N/A
12/10/2018	NOKJPY	11:30:00 AM	13.3	13.32			N/A
12/10/2018	NOKJPY	1:30:00 PM	13.29	13.32			N/A
12/10/2018	NOKJPY	3:30:00 PM	13.29	13.32			N/A
12/10/2018	NZDCAD	9:30:00 AM	0.91618	0.91675			N/A
12/10/2018	NZDCAD	11:30:00 AM	0.91662	0.91728			N/A
12/10/2018	NZDCAD	1:30:00 PM	0.91746	0.918			N/A
12/10/2018	NZDCAD	3:30:00 PM	0.91706	0.91744			N/A
12/10/2018	NZDCHF	9:30:00 AM	0.68051	0.68107			N/A
12/10/2018	NZDCHF	11:30:00 AM	0.68124	0.68194			N/A
12/10/2018	NZDCHF	1:30:00 PM	0.68155	0.68205			N/A
12/10/2018	NZDCHF	3:30:00 PM	0.68063	0.68113			N/A
12/10/2018	NZDCZK	9:30:00 AM	15.569	15.578			N/A
12/10/2018	NZDCZK	11:30:00 AM	15.591	15.602			N/A
12/10/2018	NZDCZK	1:30:00 PM	15.608	15.615			N/A
12/10/2018	NZDCZK	3:30:00 PM	15.582	15.591			N/A
12/10/2018	NZDDKK	9:30:00 AM	4.496	4.5			N/A
12/10/2018	NZDDKK	11:30:00 AM	4.501	4.504			N/A
12/10/2018	NZDDKK	1:30:00 PM					N/A

12/10/2018	NZDDKK	3:30:00 PM	4.497	4.501			N/A
12/10/2018	NZDHKD	9:30:00 AM	5.3783	5.3804			N/A
12/10/2018	NZDHKD	11:30:00 AM	5.3786	5.3815			N/A
12/10/2018	NZDHKD	1:30:00 PM	5.3861	5.3887			N/A
12/10/2018	NZDHKD	3:30:00 PM	5.3765	5.3788			N/A
12/10/2018	NZDHUF	9:30:00 AM	194.36	194.61			N/A
12/10/2018	NZDHUF	11:30:00 AM	194.76	195.02			N/A
12/10/2018	NZDHUF	1:30:00 PM	194.99	195.12			N/A
12/10/2018	NZDHUF	3:30:00 PM	194.66	194.9			N/A
12/10/2018	NZDJPY	9:30:00 AM	77.518	77.571			N/A
12/10/2018	NZDJPY	11:30:00 AM	77.595	77.654			N/A
12/10/2018	NZDJPY	1:30:00 PM	77.649	77.711			N/A
12/10/2018	NZDJPY	3:30:00 PM	77.659	77.699			N/A
12/10/2018	NZDMXN	9:30:00 AM	13.9489	13.9504			N/A
12/10/2018	NZDMXN	11:30:00 AM	13.9437	13.948			N/A
12/10/2018	NZDMXN	1:30:00 PM	13.9334	13.9373			N/A
12/10/2018	NZDMXN	3:30:00 PM	13.9449	13.9474			N/A
12/10/2018	NZDNOK	9:30:00 AM	5.8201	5.823			N/A
12/10/2018	NZDNOK	11:30:00 AM	5.8306	5.8335			N/A
12/10/2018	NZDNOK	1:30:00 PM	5.8374	5.8412			N/A
12/10/2018	NZDNOK	3:30:00 PM	5.8362	5.8391			N/A
12/10/2018	NZDPLN	9:30:00 AM	2.5814	2.5822			N/A
12/10/2018	NZDPLN	11:30:00 AM	2.5866	2.588			N/A
12/10/2018	NZDPLN	1:30:00 PM	2.5908	2.5922			N/A
12/10/2018	NZDPLN	3:30:00 PM	2.5862	2.5875			N/A
12/10/2018	NZDSEK	9:30:00 AM	6.2059	6.2108			N/A
12/10/2018	NZDSEK	11:30:00 AM	6.2191	6.2222			N/A
12/10/2018	NZDSEK	1:30:00 PM	6.2286	6.2353			N/A
12/10/2018	NZDSEK	3:30:00 PM	6.223	6.2279			N/A
12/10/2018	NZDSGD	9:30:00 AM	0.9439	0.9444			N/A
12/10/2018	NZDSGD	11:30:00 AM	0.9436	0.9442			N/A
12/10/2018	NZDSGD	1:30:00 PM	0.9445	0.9451			N/A
12/10/2018	NZDSGD	3:30:00 PM	0.9439	0.9443			N/A
12/10/2018	NZDUSD	9:30:00 AM	0.68872	0.68864			N/A
12/10/2018	NZDUSD	11:30:00 AM	0.68865	0.68871			N/A
12/10/2018	NZDUSD	1:30:00 PM	0.68952	0.68957			N/A
12/10/2018	NZDUSD	3:30:00 PM	0.68829	0.68821			N/A
12/10/2018	NZDZAR	9:30:00 AM	9.7132	9.7266			N/A
12/10/2018	NZDZAR	11:30:00 AM	9.7522	9.7697			N/A
12/10/2018	NZDZAR	1:30:00 PM	9.8018	9.8138			N/A
12/10/2018	NZDZAR	3:30:00 PM	9.8489	9.8654			N/A
12/10/2018	SEKJPY	9:30:00 AM	12.49	12.49			N/A
12/10/2018	SEKJPY	11:30:00 AM	12.48	12.48			N/A
12/10/2018	SEKJPY	1:30:00 PM	12.46	12.47			N/A
12/10/2018	SEKJPY	3:30:00 PM	12.48	12.48			N/A
12/10/2018	SGDJPY	9:30:00 AM	82.1	82.13			N/A
12/10/2018	SGDJPY	11:30:00 AM	82.21	82.23			N/A
12/10/2018	SGDJPY	1:30:00 PM	82.19	82.22			N/A
12/10/2018	SGDJPY	3:30:00 PM	82.25	82.27			N/A
12/10/2018	SILVER	9:30:00 AM	14.37	14.73			N/A

12/10/2018	SILVER	11:30:00 AM	14.35	14.72			N/A
12/10/2018	SILVER	1:30:00 PM	14.37	14.73			N/A
12/10/2018	SILVER	3:30:00 PM	14.32	14.69			N/A
12/10/2018	USDCAD	9:30:00 AM	1.33072	1.33064			N/A
12/10/2018	USDCAD	11:30:00 AM	1.33137	1.33141			N/A
12/10/2018	USDCAD	1:30:00 PM	1.33093	1.33084			N/A
12/10/2018	USDCAD	3:30:00 PM	1.33281	1.33266			N/A
12/10/2018	USDCHF	9:30:00 AM	0.98852	0.98857			N/A
12/10/2018	USDCHF	11:30:00 AM	0.98964	0.98974			N/A
12/10/2018	USDCHF	1:30:00 PM	0.98883	0.98863			N/A
12/10/2018	USDCHF	3:30:00 PM	0.98925	0.98911			N/A
12/10/2018	USDCZK	9:30:00 AM	22.609	22.629			N/A
12/10/2018	USDCZK	11:30:00 AM	22.642	22.661			N/A
12/10/2018	USDCZK	1:30:00 PM	22.64	22.654			N/A
12/10/2018	USDCZK	3:30:00 PM	22.645	22.66			N/A
12/10/2018	USDDKK	9:30:00 AM	6.5305	6.5337			N/A
12/10/2018	USDDKK	11:30:00 AM	6.537	6.5399			N/A
12/10/2018	USDDKK	1:30:00 PM	6.5362	6.5389			N/A
12/10/2018	USDDKK	3:30:00 PM	6.536	6.5382			N/A
12/10/2018	USDHKD	9:30:00 AM					N/A
12/10/2018	USDHKD	11:30:00 AM	7.8137	7.814			N/A
12/10/2018	USDHKD	1:30:00 PM	7.8146	7.815			N/A
12/10/2018	USDHKD	3:30:00 PM					N/A
12/10/2018	USDHUF	9:30:00 AM	282.29	282.73			N/A
12/10/2018	USDHUF	11:30:00 AM	282.93	283.35			N/A
12/10/2018	USDHUF	1:30:00 PM	282.87	283.28			N/A
12/10/2018	USDHUF	3:30:00 PM	282.87	283.24			N/A
12/10/2018	USDJPY	9:30:00 AM	112.595	112.594			N/A
12/10/2018	USDJPY	11:30:00 AM	112.703	112.709			N/A
12/10/2018	USDJPY	1:30:00 PM	112.645	112.643			N/A
12/10/2018	USDJPY	3:30:00 PM	112.862	112.844			N/A
12/10/2018	USDMXN	9:30:00 AM	20.259	20.266			N/A
12/10/2018	USDMXN	11:30:00 AM	20.257	20.262			N/A
12/10/2018	USDMXN	1:30:00 PM	20.217	20.22			N/A
12/10/2018	USDMXN	3:30:00 PM	20.268	20.271			N/A
12/10/2018	USDNOK	9:30:00 AM	8.4529	8.4607			N/A
12/10/2018	USDNOK	11:30:00 AM	8.47	8.4754			N/A
12/10/2018	USDNOK	1:30:00 PM	8.4673	8.4755			N/A
12/10/2018	USDNOK	3:30:00 PM	8.4828	8.4888			N/A
12/10/2018	USDPLN	9:30:00 AM	3.7503	3.7512			N/A
12/10/2018	USDPLN	11:30:00 AM	3.7581	3.7592			N/A
12/10/2018	USDPLN	1:30:00 PM	3.759	3.7598			N/A
12/10/2018	USDPLN	3:30:00 PM	3.7588	3.7593			N/A
12/10/2018	USDRUR	9:30:00 AM					N/A
12/10/2018	USDRUR	11:30:00 AM	65.986	66.368			N/A
12/10/2018	USDRUR	1:30:00 PM	66.173	66.557			N/A
12/10/2018	USDRUR	3:30:00 PM	66.343	66.719			N/A
12/10/2018	USDSEK	9:30:00 AM	9.0168	9.0201			N/A
12/10/2018	USDSEK	11:30:00 AM	9.036	9.0342			N/A
12/10/2018	USDSEK	1:30:00 PM	9.0389	9.0423			N/A

12/10/2018	USDSEK	3:30:00 PM	9.0461	9.0483			N/A
12/10/2018	USDSGD	9:30:00 AM	1.3708	1.371			N/A
12/10/2018	USDSGD	11:30:00 AM	1.3704	1.3707			N/A
12/10/2018	USDSGD	1:30:00 PM	1.3699	1.3702			N/A
12/10/2018	USDSGD	3:30:00 PM	1.3715	1.3717			N/A
12/10/2018	USDZAR	9:30:00 AM	14.1175	14.1293			N/A
12/10/2018	USDZAR	11:30:00 AM	14.1756	14.1915			N/A
12/10/2018	USDZAR	1:30:00 PM	14.2261	14.2376			N/A
12/10/2018	USDZAR	3:30:00 PM	14.3213	14.3373			N/A
12/10/2018	XAUUSD	9:30:00 AM	1247.6	1247.3			N/A
12/10/2018	XAUUSD	11:30:00 AM	1246.54	1246.67			N/A
12/10/2018	XAUUSD	1:30:00 PM	1247.41	1247.32			N/A
12/10/2018	XAUUSD	3:30:00 PM	1244.39	1244.32			N/A
12/10/2018	ZARJPY	9:30:00 AM	7.96	7.98			N/A
12/10/2018	ZARJPY	11:30:00 AM	7.93	7.95			N/A
12/10/2018	ZARJPY	1:30:00 PM	7.9	7.92			N/A
12/10/2018	ZARJPY	3:30:00 PM	7.86	7.88			N/A
12/11/2018	#AA	9:30:00 AM					N/A
12/11/2018	#AA	11:30:00 AM					N/A
12/11/2018	#AA	1:30:00 PM					N/A
12/11/2018	#AA	3:30:00 PM					N/A
12/11/2018	#AABA	9:30:00 AM					N/A
12/11/2018	#AABA	11:30:00 AM					N/A
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12/11/2018	#AAL	3:30:00 PM					N/A
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12/11/2018	#AAPL	3:30:00 PM					N/A
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12/11/2018	#ADBE	3:30:00 PM					N/A
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12/11/2018	#AIG	1:30:00 PM					N/A
12/11/2018	#AIG	3:30:00 PM					N/A
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12/11/2018	#AMD	11:30:00 AM					N/A
12/11/2018	#AMD	1:30:00 PM					N/A
12/11/2018	#AMD	3:30:00 PM					N/A
12/11/2018	#AMZN	9:30:00 AM					N/A
12/11/2018	#AMZN	11:30:00 AM					N/A
12/11/2018	#AMZN	1:30:00 PM					N/A
12/11/2018	#AMZN	3:30:00 PM					N/A
12/11/2018	#AXP	9:30:00 AM					N/A

12/11/2018	#AXP	11:30:00 AM					N/A
12/11/2018	#AXP	1:30:00 PM					N/A
12/11/2018	#AXP	3:30:00 PM					N/A
12/11/2018	#BA	9:30:00 AM					N/A
12/11/2018	#BA	11:30:00 AM					N/A
12/11/2018	#BA	1:30:00 PM					N/A
12/11/2018	#BA	3:30:00 PM					N/A
12/11/2018	#BABA	9:30:00 AM					N/A
12/11/2018	#BABA	11:30:00 AM					N/A
12/11/2018	#BABA	1:30:00 PM					N/A
12/11/2018	#BABA	3:30:00 PM					N/A
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12/11/2018	#BAC	3:30:00 PM					N/A
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12/11/2018	#BARC	1:30:00 PM					N/A
12/11/2018	#BARC	3:30:00 PM					N/A
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12/11/2018	#BHP	11:30:00 AM					N/A
12/11/2018	#BHP	1:30:00 PM					N/A
12/11/2018	#BHP	3:30:00 PM					N/A
12/11/2018	#BIDU	9:30:00 AM					N/A
12/11/2018	#BIDU	11:30:00 AM					N/A
12/11/2018	#BIDU	1:30:00 PM					N/A
12/11/2018	#BIDU	3:30:00 PM					N/A
12/11/2018	#BK	9:30:00 AM					N/A
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12/11/2018	AUDCAD	9:30:00 AM	0.96567	0.96612			N/A
12/11/2018	AUDCAD	11:30:00 AM	0.96522	0.96592			N/A
12/11/2018	AUDCAD	1:30:00 PM	0.96562	0.96628			N/A
12/11/2018	AUDCAD	3:30:00 PM	0.96657	0.96668			N/A
12/11/2018	AUDCHF	9:30:00 AM	0.71224	0.71281			N/A
12/11/2018	AUDCHF	11:30:00 AM	0.7099	0.71052			N/A
12/11/2018	AUDCHF	1:30:00 PM	0.71245	0.71311			N/A
12/11/2018	AUDCHF	3:30:00 PM	0.71306	0.7137			N/A
12/11/2018	AUDCZK	9:30:00 AM	16.371	16.387			N/A
12/11/2018	AUDCZK	11:30:00 AM	16.335	16.351			N/A
12/11/2018	AUDCZK	1:30:00 PM	16.356	16.373			N/A
12/11/2018	AUDCZK	3:30:00 PM	16.372	16.385			N/A
12/11/2018	AUDDKK	9:30:00 AM	4.7262	4.7307			N/A
12/11/2018	AUDDKK	11:30:00 AM	4.7176	4.7222			N/A
12/11/2018	AUDDKK	1:30:00 PM	4.7242	4.7287			N/A
12/11/2018	AUDDKK	3:30:00 PM	4.7296	4.7338			N/A
12/11/2018	AUDHKD	9:30:00 AM	5.6275	5.6302			N/A

12/11/2018	AUDHKD	11:30:00 AM	5.6228	5.6264			N/A
12/11/2018	AUDHKD	1:30:00 PM	5.6335	5.637			N/A
12/11/2018	AUDHKD	3:30:00 PM	5.636	5.639			N/A
12/11/2018	AUDHUF	9:30:00 AM	204.58	204.83			N/A
12/11/2018	AUDHUF	11:30:00 AM	204.33	204.56			N/A
12/11/2018	AUDHUF	1:30:00 PM	204.57	204.8			N/A
12/11/2018	AUDHUF	3:30:00 PM	204.8	204.95			N/A
12/11/2018	AUDJPY	9:30:00 AM	81.485	81.541			N/A
12/11/2018	AUDJPY	11:30:00 AM	81.367	81.42			N/A
12/11/2018	AUDJPY	1:30:00 PM	81.542	81.608			N/A
12/11/2018	AUDJPY	3:30:00 PM	81.612	81.667			N/A
12/11/2018	AUDMXN	9:30:00 AM	14.6205	14.6243			N/A
12/11/2018	AUDMXN	11:30:00 AM	14.6313	14.6382			N/A
12/11/2018	AUDMXN	1:30:00 PM	14.5985	14.6087			N/A
12/11/2018	AUDMXN	3:30:00 PM	14.5584	14.5569			N/A
12/11/2018	AUDNOK	9:30:00 AM	6.1547	6.1581			N/A
12/11/2018	AUDNOK	11:30:00 AM	6.1383	6.1431			N/A
12/11/2018	AUDNOK	1:30:00 PM	6.1416	6.1468			N/A
12/11/2018	AUDNOK	3:30:00 PM	6.1514	6.155			N/A
12/11/2018	AUDNZD	9:30:00 AM	1.048	1.04882			N/A
12/11/2018	AUDNZD	11:30:00 AM	1.04806	1.04898			N/A
12/11/2018	AUDNZD	1:30:00 PM	1.04828	1.04917			N/A
12/11/2018	AUDNZD	3:30:00 PM	1.04627	1.04706			N/A
12/11/2018	AUDPLN	9:30:00 AM	2.7192	2.7221			N/A
12/11/2018	AUDPLN	11:30:00 AM	2.7164	2.7195			N/A
12/11/2018	AUDPLN	1:30:00 PM	2.7205	2.7237			N/A
12/11/2018	AUDPLN	3:30:00 PM	2.7232	2.7261			N/A
12/11/2018	AUDSEK	9:30:00 AM	6.5334	6.5351			N/A
12/11/2018	AUDSEK	11:30:00 AM	6.5159	6.5172			N/A
12/11/2018	AUDSEK	1:30:00 PM	6.5198	6.5223			N/A
12/11/2018	AUDSEK	3:30:00 PM	6.5321	6.5339			N/A
12/11/2018	AUDSGD	9:30:00 AM	0.9892	0.9893			N/A
12/11/2018	AUDSGD	11:30:00 AM	0.9877	0.988			N/A
12/11/2018	AUDSGD	1:30:00 PM	0.9897	0.9901			N/A
12/11/2018	AUDSGD	3:30:00 PM	0.99	0.9902			N/A
12/11/2018	AUDUSD	9:30:00 AM	0.72054	0.72045			N/A
12/11/2018	AUDUSD	11:30:00 AM	0.71973	0.71981			N/A
12/11/2018	AUDUSD	1:30:00 PM	0.72117	0.72125			N/A
12/11/2018	AUDUSD	3:30:00 PM	0.72156	0.72139			N/A
12/11/2018	AUDZAR	9:30:00 AM	10.342	10.3493			N/A
12/11/2018	AUDZAR	11:30:00 AM	10.386	10.3959			N/A
12/11/2018	AUDZAR	1:30:00 PM	10.334	10.3493			N/A
12/11/2018	AUDZAR	3:30:00 PM	10.3045	10.3106			N/A
12/11/2018	CADCHF	9:30:00 AM	0.73734	0.73806			N/A
12/11/2018	CADCHF	11:30:00 AM	0.7352	0.73588			N/A
12/11/2018	CADCHF	1:30:00 PM	0.73756	0.7382			N/A
12/11/2018	CADCHF	3:30:00 PM	0.73787	0.73809			N/A
12/11/2018	CADCZK	9:30:00 AM	16.954	16.97			N/A
12/11/2018	CADCZK	11:30:00 AM	16.922	16.939			N/A
12/11/2018	CADCZK	1:30:00 PM	16.938	16.954			N/A

12/11/2018	CADCZK	3:30:00 PM	16.947	16.954			N/A
12/11/2018	CADDKK	9:30:00 AM	4.895	4.898			N/A
12/11/2018	CADDKK	11:30:00 AM	4.889	4.893			N/A
12/11/2018	CADDKK	1:30:00 PM					N/A
12/11/2018	CADDKK	3:30:00 PM	4.895	4.898			N/A
12/11/2018	CADHKD	9:30:00 AM	5.827	5.8309			N/A
12/11/2018	CADHKD	11:30:00 AM	5.8252	5.8289			N/A
12/11/2018	CADHKD	1:30:00 PM	5.834	5.837			N/A
12/11/2018	CADHKD	3:30:00 PM	5.8343	5.8349			N/A
12/11/2018	CADHUF	9:30:00 AM	211.93	212.07			N/A
12/11/2018	CADHUF	11:30:00 AM	211.71	211.88			N/A
12/11/2018	CADHUF	1:30:00 PM	211.88	212.03			N/A
12/11/2018	CADHUF	3:30:00 PM	212.01	212.08			N/A
12/11/2018	CADJPY	9:30:00 AM	84.364	84.426			N/A
12/11/2018	CADJPY	11:30:00 AM	84.265	84.325			N/A
12/11/2018	CADJPY	1:30:00 PM	84.416	84.482			N/A
12/11/2018	CADJPY	3:30:00 PM	84.451	84.464			N/A
12/11/2018	CADMXN	9:30:00 AM	15.1392	15.1461			N/A
12/11/2018	CADMXN	11:30:00 AM	15.1571	15.1657			N/A
12/11/2018	CADMXN	1:30:00 PM	15.1167	15.128			N/A
12/11/2018	CADMXN	3:30:00 PM	15.0692	15.0638			N/A
12/11/2018	CADNOK	9:30:00 AM	6.3709	6.3749			N/A
12/11/2018	CADNOK	11:30:00 AM	6.3572	6.362			N/A
12/11/2018	CADNOK	1:30:00 PM	6.3579	6.3624			N/A
12/11/2018	CADNOK	3:30:00 PM	6.3642	6.3669			N/A
12/11/2018	CADPLN	9:30:00 AM	2.8153	2.8171			N/A
12/11/2018	CADPLN	11:30:00 AM	2.814	2.8159			N/A
12/11/2018	CADPLN	1:30:00 PM	2.8171	2.819			N/A
12/11/2018	CADPLN	3:30:00 PM	2.8178	2.8195			N/A
12/11/2018	CADSEK	9:30:00 AM	6.7625	6.7656			N/A
12/11/2018	CADSEK	11:30:00 AM	6.7489	6.7499			N/A
12/11/2018	CADSEK	1:30:00 PM	6.7492	6.7516			N/A
12/11/2018	CADSEK	3:30:00 PM	6.7585	6.7587			N/A
12/11/2018	CADSGD	9:30:00 AM	1.0243	1.0246			N/A
12/11/2018	CADSGD	11:30:00 AM	1.0233	1.0236			N/A
12/11/2018	CADSGD	1:30:00 PM	1.0246	1.0249			N/A
12/11/2018	CADSGD	3:30:00 PM	1.0246	1.0249			N/A
12/11/2018	CADZAR	9:30:00 AM	10.7082	10.7186			N/A
12/11/2018	CADZAR	11:30:00 AM	10.7587	10.7704			N/A
12/11/2018	CADZAR	1:30:00 PM	10.7011	10.718			N/A
12/11/2018	CADZAR	3:30:00 PM	10.6645	10.6701			N/A
12/11/2018	CHFCZK	9:30:00 AM	22.987	23.002			N/A
12/11/2018	CHFCZK	11:30:00 AM	23.011	23.025			N/A
12/11/2018	CHFCZK	1:30:00 PM	22.959	22.976			N/A
12/11/2018	CHFCZK	3:30:00 PM	22.961	22.977			N/A
12/11/2018	CHFDKK	9:30:00 AM	6.635	6.638			N/A
12/11/2018	CHFDKK	11:30:00 AM	6.644	6.647			N/A
12/11/2018	CHFDKK	1:30:00 PM	6.631	6.633			N/A
12/11/2018	CHFDKK	3:30:00 PM	6.632	6.634			N/A
12/11/2018	CHFHKD	9:30:00 AM	7.9002	7.9035			N/A

12/11/2018	CHFHKD	11:30:00 AM	7.9199	7.923			N/A
12/11/2018	CHFHKD	1:30:00 PM	7.9077	7.9114			N/A
12/11/2018	CHFHKD	3:30:00 PM	7.9046	7.9072			N/A
12/11/2018	CHFHUF	9:30:00 AM	287.19	287.57			N/A
12/11/2018	CHFHUF	11:30:00 AM	287.78	288.12			N/A
12/11/2018	CHFHUF	1:30:00 PM	287.08	287.47			N/A
12/11/2018	CHFHUF	3:30:00 PM	287.14	287.48			N/A
12/11/2018	CHFJPY	9:30:00 AM	114.371	114.435			N/A
12/11/2018	CHFJPY	11:30:00 AM	114.572	114.628			N/A
12/11/2018	CHFJPY	1:30:00 PM	114.416	114.484			N/A
12/11/2018	CHFJPY	3:30:00 PM	114.408	114.467			N/A
12/11/2018	CHFMXN	9:30:00 AM	20.5236	20.5334			N/A
12/11/2018	CHFMXN	11:30:00 AM	20.6068	20.6202			N/A
12/11/2018	CHFMXN	1:30:00 PM	20.4881	20.5044			N/A
12/11/2018	CHFMXN	3:30:00 PM	20.4126	20.4148			N/A
12/11/2018	CHFNOK	9:30:00 AM	8.636	8.6432			N/A
12/11/2018	CHFNOK	11:30:00 AM	8.6426	8.6493			N/A
12/11/2018	CHFNOK	1:30:00 PM	8.6166	8.6242			N/A
12/11/2018	CHFNOK	3:30:00 PM	8.6233	8.6287			N/A
12/11/2018	CHFPLN	9:30:00 AM	3.8165	3.8194			N/A
12/11/2018	CHFPLN	11:30:00 AM	3.8256	3.8281			N/A
12/11/2018	CHFPLN	1:30:00 PM	3.8175	3.8205			N/A
12/11/2018	CHFPLN	3:30:00 PM	3.8184	3.8209			N/A
12/11/2018	CHFSEK	9:30:00 AM	9.1673	9.1713			N/A
12/11/2018	CHFSEK	11:30:00 AM	9.1746	9.1763			N/A
12/11/2018	CHFSEK	1:30:00 PM	9.1472	9.1512			N/A
12/11/2018	CHFSEK	3:30:00 PM	9.1566	9.1589			N/A
12/11/2018	CHFSGD	9:30:00 AM	1.3882	1.3886			N/A
12/11/2018	CHFSGD	11:30:00 AM	1.3908	1.3911			N/A
12/11/2018	CHFSGD	1:30:00 PM	1.3886	1.389			N/A
12/11/2018	CHFSGD	3:30:00 PM	1.3878	1.3881			N/A
12/11/2018	CHFZAR	9:30:00 AM	14.5213	14.5269			N/A
12/11/2018	CHFZAR	11:30:00 AM	14.6312	14.639			N/A
12/11/2018	CHFZAR	1:30:00 PM	14.5076	14.52			N/A
12/11/2018	CHFZAR	3:30:00 PM	14.4521	14.4555			N/A
12/11/2018	CZKJPY	9:30:00 AM	4.974	4.978			N/A
12/11/2018	CZKJPY	11:30:00 AM					N/A
12/11/2018	CZKJPY	1:30:00 PM					N/A
12/11/2018	CZKJPY	3:30:00 PM	4.982	4.985			N/A
12/11/2018	DKKJPY	9:30:00 AM					N/A
12/11/2018	DKKJPY	11:30:00 AM	17.25	17.26			N/A
12/11/2018	DKKJPY	1:30:00 PM					N/A
12/11/2018	DKKJPY	3:30:00 PM					N/A
12/11/2018	EURAUD	9:30:00 AM	1.5778	1.57805			N/A
12/11/2018	EURAUD	11:30:00 AM	1.58065	1.58101			N/A
12/11/2018	EURAUD	1:30:00 PM	1.57849	1.57885			N/A
12/11/2018	EURAUD	3:30:00 PM	1.57679	1.57702			N/A
12/11/2018	EURCAD	9:30:00 AM	1.52431	1.52502			N/A
12/11/2018	EURCAD	11:30:00 AM	1.52662	1.5274			N/A
12/11/2018	EURCAD	1:30:00 PM	1.52516	1.52592			N/A

12/11/2018	EURCAD	3:30:00 PM	1.52491	1.52488			N/A
12/11/2018	EURCHF	9:30:00 AM	1.12472	1.12478			N/A
12/11/2018	EURCHF	11:30:00 AM	1.12324	1.12316			N/A
12/11/2018	EURCHF	1:30:00 PM	1.12562	1.12568			N/A
12/11/2018	EURCHF	3:30:00 PM	1.12533	1.12529			N/A
12/11/2018	EURCZK	9:30:00 AM	25.838	25.878			N/A
12/11/2018	EURCZK	11:30:00 AM	25.829	25.868			N/A
12/11/2018	EURCZK	1:30:00 PM	25.829	25.868			N/A
12/11/2018	EURCZK	3:30:00 PM	25.824	25.86			N/A
12/11/2018	EURDKK	9:30:00 AM	7.4634	7.4642			N/A
12/11/2018	EURDKK	11:30:00 AM	7.4632	7.4642			N/A
12/11/2018	EURDKK	1:30:00 PM	7.4638	7.4649			N/A
12/11/2018	EURDKK	3:30:00 PM	7.4629	7.4641			N/A
12/11/2018	EURGBP	9:30:00 AM	0.90481	0.90476			N/A
12/11/2018	EURGBP	11:30:00 AM	0.90156	0.9008			N/A
12/11/2018	EURGBP	1:30:00 PM	0.90233	0.90225			N/A
12/11/2018	EURGBP	3:30:00 PM	0.90274	0.90282			N/A
12/11/2018	EURHKD	9:30:00 AM	8.8853	8.8888			N/A
12/11/2018	EURHKD	11:30:00 AM	8.8943	8.8988			N/A
12/11/2018	EURHKD	1:30:00 PM	8.8999	8.9047			N/A
12/11/2018	EURHKD	3:30:00 PM	8.8946	8.8964			N/A
12/11/2018	EURHUF	9:30:00 AM	322.92	323.56			N/A
12/11/2018	EURHUF	11:30:00 AM	323.07	323.81			N/A
12/11/2018	EURHUF	1:30:00 PM	323.03	323.77			N/A
12/11/2018	EURHUF	3:30:00 PM	323.01	323.72			N/A
12/11/2018	EURJPY	9:30:00 AM	128.68	128.67			N/A
12/11/2018	EURJPY	11:30:00 AM	128.734	128.713			N/A
12/11/2018	EURJPY	1:30:00 PM	128.823	128.835			N/A
12/11/2018	EURJPY	3:30:00 PM	128.792	128.783			N/A
12/11/2018	EURMXN	9:30:00 AM	23.0868	23.0985			N/A
12/11/2018	EURMXN	11:30:00 AM	23.1472	23.16			N/A
12/11/2018	EURMXN	1:30:00 PM	23.064	23.0832			N/A
12/11/2018	EURMXN	3:30:00 PM	22.9764	22.9766			N/A
12/11/2018	EURNOK	9:30:00 AM	9.7122	9.723			N/A
12/11/2018	EURNOK	11:30:00 AM	9.7046	9.7173			N/A
12/11/2018	EURNOK	1:30:00 PM	9.6975	9.7095			N/A
12/11/2018	EURNOK	3:30:00 PM	9.7021	9.7122			N/A
12/11/2018	EURNZD	9:30:00 AM	1.65463	1.65537			N/A
12/11/2018	EURNZD	11:30:00 AM	1.65782	1.65857			N/A
12/11/2018	EURNZD	1:30:00 PM	1.65586	1.65664			N/A
12/11/2018	EURNZD	3:30:00 PM	1.65081	1.65146			N/A
12/11/2018	EURPLN	9:30:00 AM	4.2926	4.2959			N/A
12/11/2018	EURPLN	11:30:00 AM	4.2965	4.2998			N/A
12/11/2018	EURPLN	1:30:00 PM	4.2971	4.2997			N/A
12/11/2018	EURPLN	3:30:00 PM	4.2968	4.2999			N/A
12/11/2018	EURRUR	9:30:00 AM					N/A
12/11/2018	EURRUR	11:30:00 AM	75.344	75.783			N/A
12/11/2018	EURRUR	1:30:00 PM	75.332	75.747			N/A
12/11/2018	EURRUR	3:30:00 PM	75.162	75.569			N/A
12/11/2018	EURSEK	9:30:00 AM	10.3121	10.3158			N/A

12/11/2018	EURSEK	11:30:00 AM	10.3049	10.3065			N/A
12/11/2018	EURSEK	1:30:00 PM	10.2971	10.3007			N/A
12/11/2018	EURSEK	3:30:00 PM	10.3047	10.307			N/A
12/11/2018	EURSGD	9:30:00 AM	1.5613	1.562			N/A
12/11/2018	EURSGD	11:30:00 AM	1.5619	1.5626			N/A
12/11/2018	EURSGD	1:30:00 PM	1.5629	1.5637			N/A
12/11/2018	EURSGD	3:30:00 PM	1.5616	1.5623			N/A
12/11/2018	EURUSD	9:30:00 AM	1.13721	1.13713			N/A
12/11/2018	EURUSD	11:30:00 AM	1.13815	1.13816			N/A
12/11/2018	EURUSD	1:30:00 PM	1.13881	1.13886			N/A
12/11/2018	EURUSD	3:30:00 PM	1.13816	1.13787			N/A
12/11/2018	EURZAR	9:30:00 AM	16.3354	16.3433			N/A
12/11/2018	EURZAR	11:30:00 AM	16.4352	16.4458			N/A
12/11/2018	EURZAR	1:30:00 PM	16.3321	16.3489			N/A
12/11/2018	EURZAR	3:30:00 PM	16.2681	16.2736			N/A
12/11/2018	GBPAUD	9:30:00 AM	1.74445	1.74477			N/A
12/11/2018	GBPAUD	11:30:00 AM	1.75527	1.75441			N/A
12/11/2018	GBPAUD	1:30:00 PM	1.75008	1.75059			N/A
12/11/2018	GBPAUD	3:30:00 PM	1.74713	1.74764			N/A
12/11/2018	GBPCAD	9:30:00 AM	1.68484	1.68545			N/A
12/11/2018	GBPCAD	11:30:00 AM	1.69487	1.69402			N/A
12/11/2018	GBPCAD	1:30:00 PM	1.69045	1.69097			N/A
12/11/2018	GBPCAD	3:30:00 PM	1.68923	1.68908			N/A
12/11/2018	GBPCHF	9:30:00 AM	1.24291	1.24327			N/A
12/11/2018	GBPCHF	11:30:00 AM	1.2468	1.24585			N/A
12/11/2018	GBPCHF	1:30:00 PM	1.24752	1.24766			N/A
12/11/2018	GBPCHF	3:30:00 PM	1.24633	1.24668			N/A
12/11/2018	GBPCZK	9:30:00 AM	28.568	28.586			N/A
12/11/2018	GBPCZK	11:30:00 AM	28.681	28.676			N/A
12/11/2018	GBPCZK	1:30:00 PM	28.638	28.656			N/A
12/11/2018	GBPCZK	3:30:00 PM	28.614	28.631			N/A
12/11/2018	GBPDKK	9:30:00 AM	8.245	8.255			N/A
12/11/2018	GBPDKK	11:30:00 AM	8.281	8.285			N/A
12/11/2018	GBPDKK	1:30:00 PM	8.269	8.278			N/A
12/11/2018	GBPDKK	3:30:00 PM	8.263	8.274			N/A
12/11/2018	GBPHKD	9:30:00 AM	9.818	9.8229			N/A
12/11/2018	GBPHKD	11:30:00 AM	9.8729	9.8672			N/A
12/11/2018	GBPHKD	1:30:00 PM	9.8631	9.8667			N/A
12/11/2018	GBPHKD	3:30:00 PM	9.8506	9.8533			N/A
12/11/2018	GBPHUF	9:30:00 AM	356.95	357.34			N/A
12/11/2018	GBPHUF	11:30:00 AM	358.72	358.8			N/A
12/11/2018	GBPHUF	1:30:00 PM	358.1	358.5			N/A
12/11/2018	GBPHUF	3:30:00 PM	357.85	358.23			N/A
12/11/2018	GBPJPY	9:30:00 AM	142.201	142.223			N/A
12/11/2018	GBPJPY	11:30:00 AM	142.891	142.772			N/A
12/11/2018	GBPJPY	1:30:00 PM	142.778	142.792			N/A
12/11/2018	GBPJPY	3:30:00 PM	142.643	142.664			N/A
12/11/2018	GBPMXN	9:30:00 AM	25.5069	25.5191			N/A
12/11/2018	GBPMXN	11:30:00 AM	25.6903	25.6749			N/A
12/11/2018	GBPMXN	1:30:00 PM	25.5583	25.5692			N/A

12/11/2018	GBPMXN	3:30:00 PM	25.4426	25.4374			N/A
12/11/2018	GBPNOK	9:30:00 AM	10.7342	10.7457			N/A
12/11/2018	GBPNOK	11:30:00 AM	10.7756	10.7765			N/A
12/11/2018	GBPNOK	1:30:00 PM	10.7497	10.7592			N/A
12/11/2018	GBPNOK	3:30:00 PM	10.7488	10.7569			N/A
12/11/2018	GBPNZD	9:30:00 AM	1.82889	1.82936			N/A
12/11/2018	GBPNZD	11:30:00 AM	1.84054	1.8395			N/A
12/11/2018	GBPNZD	1:30:00 PM	1.8354	1.83579			N/A
12/11/2018	GBPNZD	3:30:00 PM	1.8287	1.8293			N/A
12/11/2018	GBPPLN	9:30:00 AM	4.7453	4.7468			N/A
12/11/2018	GBPPLN	11:30:00 AM	4.7709	4.7683			N/A
12/11/2018	GBPPLN	1:30:00 PM	4.7638	4.7649			N/A
12/11/2018	GBPPLN	3:30:00 PM	4.7602	4.762			N/A
12/11/2018	GBPSEK	9:30:00 AM	11.395	11.4024			N/A
12/11/2018	GBPSEK	11:30:00 AM	11.4384	11.4332			N/A
12/11/2018	GBPSEK	1:30:00 PM	11.4103	11.4173			N/A
12/11/2018	GBPSEK	3:30:00 PM	11.412	11.4186			N/A
12/11/2018	GBPSGD	9:30:00 AM	1.7255	1.7263			N/A
12/11/2018	GBPSGD	11:30:00 AM	1.734	1.733			N/A
12/11/2018	GBPSGD	1:30:00 PM	1.7325	1.7328			N/A
12/11/2018	GBPSGD	3:30:00 PM	1.7298	1.7303			N/A
12/11/2018	GBPUSD	9:30:00 AM	1.25704	1.25695			N/A
12/11/2018	GBPUSD	11:30:00 AM	1.26366	1.26247		600	N/A
12/11/2018	GBPUSD	1:30:00 PM	1.26249	1.26224			N/A
12/11/2018	GBPUSD	3:30:00 PM	1.26087	1.26058			N/A
12/11/2018	GBPZAR	9:30:00 AM	18.0487	18.0687			N/A
12/11/2018	GBPZAR	11:30:00 AM	18.2441	18.2438			N/A
12/11/2018	GBPZAR	1:30:00 PM	18.0983	18.124			N/A
12/11/2018	GBPZAR	3:30:00 PM	18.0144	18.0298			N/A
12/11/2018	GOLD	9:30:00 AM	1247.36	1247.46			N/A
12/11/2018	GOLD	11:30:00 AM	1248.38	1248.64			N/A
12/11/2018	GOLD	1:30:00 PM	1247.65	1247.95			N/A
12/11/2018	GOLD	3:30:00 PM	1246.36	1246.4			N/A
12/11/2018	HKDJPY	9:30:00 AM	14.48	14.49			N/A
12/11/2018	HKDJPY	11:30:00 AM	14.47	14.48			N/A
12/11/2018	HKDJPY	1:30:00 PM					N/A
12/11/2018	HKDJPY	3:30:00 PM	14.48	14.49			N/A
12/11/2018	HUFJPY	9:30:00 AM	0.3981	0.3984			N/A
12/11/2018	HUFJPY	11:30:00 AM	0.3981	0.3984			N/A
12/11/2018	HUFJPY	1:30:00 PM	0.3985	0.3988			N/A
12/11/2018	HUFJPY	3:30:00 PM	0.3985	0.3988			N/A
12/11/2018	MXNJPY	9:30:00 AM					N/A
12/11/2018	MXNJPY	11:30:00 AM	5.56	5.57			N/A
12/11/2018	MXNJPY	1:30:00 PM					N/A
12/11/2018	MXNJPY	3:30:00 PM	5.61	5.61			N/A
12/11/2018	NOKJPY	9:30:00 AM	13.23	13.26			N/A
12/11/2018	NOKJPY	11:30:00 AM	13.24	13.27			N/A
12/11/2018	NOKJPY	1:30:00 PM	13.27	13.3			N/A
12/11/2018	NOKJPY	3:30:00 PM	13.26	13.28			N/A
12/11/2018	NZDCAD	9:30:00 AM	0.92097	0.92157			N/A

12/11/2018	NZDCAD	11:30:00 AM	0.92053	0.92128			N/A
12/11/2018	NZDCAD	1:30:00 PM	0.92074	0.92139			N/A
12/11/2018	NZDCAD	3:30:00 PM	0.92337	0.92367			N/A
12/11/2018	NZDCHF	9:30:00 AM	0.67927	0.67996			N/A
12/11/2018	NZDCHF	11:30:00 AM	0.67703	0.67769			N/A
12/11/2018	NZDCHF	1:30:00 PM	0.67931	0.67998			N/A
12/11/2018	NZDCHF	3:30:00 PM	0.68127	0.68191			N/A
12/11/2018	NZDCZK	9:30:00 AM	15.617	15.628			N/A
12/11/2018	NZDCZK	11:30:00 AM	15.581	15.592			N/A
12/11/2018	NZDCZK	1:30:00 PM	15.599	15.611			N/A
12/11/2018	NZDCZK	3:30:00 PM	15.644	15.652			N/A
12/11/2018	NZDDKK	9:30:00 AM					N/A
12/11/2018	NZDDKK	11:30:00 AM	4.499	4.503			N/A
12/11/2018	NZDDKK	1:30:00 PM					N/A
12/11/2018	NZDDKK	3:30:00 PM					N/A
12/11/2018	NZDHKD	9:30:00 AM	5.3672	5.3699			N/A
12/11/2018	NZDHKD	11:30:00 AM	5.3627	5.3652			N/A
12/11/2018	NZDHKD	1:30:00 PM	5.3715	5.3739			N/A
12/11/2018	NZDHKD	3:30:00 PM	5.3854	5.3869			N/A
12/11/2018	NZDHUF	9:30:00 AM	195.11	195.38			N/A
12/11/2018	NZDHUF	11:30:00 AM	194.83	195.12			N/A
12/11/2018	NZDHUF	1:30:00 PM	195.02	195.31			N/A
12/11/2018	NZDHUF	3:30:00 PM	195.62	195.88			N/A
12/11/2018	NZDJPY	9:30:00 AM	77.718	77.782			N/A
12/11/2018	NZDJPY	11:30:00 AM	77.596	77.656			N/A
12/11/2018	NZDJPY	1:30:00 PM	77.75	77.819			N/A
12/11/2018	NZDJPY	3:30:00 PM	77.972	78.026			N/A
12/11/2018	NZDMXN	9:30:00 AM	13.945	13.9458			N/A
12/11/2018	NZDMXN	11:30:00 AM	13.9555	13.9583			N/A
12/11/2018	NZDMXN	1:30:00 PM	13.9212	13.9269			N/A
12/11/2018	NZDMXN	3:30:00 PM	13.9106	13.9048			N/A
12/11/2018	NZDNOK	9:30:00 AM	5.8677	5.8702			N/A
12/11/2018	NZDNOK	11:30:00 AM	5.8526	5.8561			N/A
12/11/2018	NZDNOK	1:30:00 PM	5.8544	5.8577			N/A
12/11/2018	NZDNOK	3:30:00 PM	5.8751	5.8787			N/A
12/11/2018	NZDPLN	9:30:00 AM	2.5929	2.5942			N/A
12/11/2018	NZDPLN	11:30:00 AM	2.5909	2.5921			N/A
12/11/2018	NZDPLN	1:30:00 PM	2.5937	2.5951			N/A
12/11/2018	NZDPLN	3:30:00 PM	2.6017	2.6031			N/A
12/11/2018	NZDSEK	9:30:00 AM	6.2259	6.2324			N/A
12/11/2018	NZDSEK	11:30:00 AM	6.2113	6.2154			N/A
12/11/2018	NZDSEK	1:30:00 PM	6.2124	6.2181			N/A
12/11/2018	NZDSEK	3:30:00 PM	6.236	6.2415			N/A
12/11/2018	NZDSGD	9:30:00 AM	0.9433	0.9439			N/A
12/11/2018	NZDSGD	11:30:00 AM	0.9419	0.9425			N/A
12/11/2018	NZDSGD	1:30:00 PM	0.9436	0.9442			N/A
12/11/2018	NZDSGD	3:30:00 PM	0.9458	0.9463			N/A
12/11/2018	NZDUSD	9:30:00 AM	0.68715	0.68716			N/A
12/11/2018	NZDUSD	11:30:00 AM	0.68633	0.68645			N/A
12/11/2018	NZDUSD	1:30:00 PM	0.68759	0.6877			N/A

12/11/2018	NZDUSD	3:30:00 PM	0.68935	0.6892			N/A
12/11/2018	NZDZAR	9:30:00 AM	9.8615	9.873			N/A
12/11/2018	NZDZAR	11:30:00 AM	9.9033	9.9148			N/A
12/11/2018	NZDZAR	1:30:00 PM	9.8521	9.8684			N/A
12/11/2018	NZDZAR	3:30:00 PM	9.8427	9.8509			N/A
12/11/2018	SEKJPY	9:30:00 AM	12.48	12.48			N/A
12/11/2018	SEKJPY	11:30:00 AM	12.49	12.5			N/A
12/11/2018	SEKJPY	1:30:00 PM	12.51	12.52			N/A
12/11/2018	SEKJPY	3:30:00 PM	12.5	12.51			N/A
12/11/2018	SGDJPY	9:30:00 AM	82.37	82.39			N/A
12/11/2018	SGDJPY	11:30:00 AM	82.36	82.39			N/A
12/11/2018	SGDJPY	1:30:00 PM	82.38	82.41			N/A
12/11/2018	SGDJPY	3:30:00 PM	82.42	82.45			N/A
12/11/2018	SILVER	9:30:00 AM	14.4	14.78			N/A
12/11/2018	SILVER	11:30:00 AM	14.4	14.77			N/A
12/11/2018	SILVER	1:30:00 PM	14.42	14.79			N/A
12/11/2018	SILVER	3:30:00 PM	14.47	14.84			N/A
12/11/2018	USDCAD	9:30:00 AM	1.34054	1.34064			N/A
12/11/2018	USDCAD	11:30:00 AM	1.3415	1.34157			N/A
12/11/2018	USDCAD	1:30:00 PM	1.33948	1.33938			N/A
12/11/2018	USDCAD	3:30:00 PM	1.34029	1.33924			N/A
12/11/2018	USDCHF	9:30:00 AM	0.98894	0.98897			N/A
12/11/2018	USDCHF	11:30:00 AM	0.98669	0.98671			N/A
12/11/2018	USDCHF	1:30:00 PM	0.98824	0.98838			N/A
12/11/2018	USDCHF	3:30:00 PM	0.98884	0.98871			N/A
12/11/2018	USDCZK	9:30:00 AM	22.734	22.751			N/A
12/11/2018	USDCZK	11:30:00 AM	22.703	22.724			N/A
12/11/2018	USDCZK	1:30:00 PM	22.688	22.711			N/A
12/11/2018	USDCZK	3:30:00 PM	22.701	22.718			N/A
12/11/2018	USDDKK	9:30:00 AM	6.5623	6.5652			N/A
12/11/2018	USDDKK	11:30:00 AM	6.5564	6.56			N/A
12/11/2018	USDDKK	1:30:00 PM	6.5524	6.5563			N/A
12/11/2018	USDDKK	3:30:00 PM	6.5576	6.5599			N/A
12/11/2018	USDHKD	9:30:00 AM	7.814	7.8141			N/A
12/11/2018	USDHKD	11:30:00 AM	7.8154	7.8158			N/A
12/11/2018	USDHKD	1:30:00 PM	7.8156	7.816			N/A
12/11/2018	USDHKD	3:30:00 PM	7.8155	7.8159			N/A
12/11/2018	USDHUF	9:30:00 AM	284.05	284.44			N/A
12/11/2018	USDHUF	11:30:00 AM	283.92	284.37			N/A
12/11/2018	USDHUF	1:30:00 PM	283.69	284.15			N/A
12/11/2018	USDHUF	3:30:00 PM	283.91	284.3			N/A
12/11/2018	USDJPY	9:30:00 AM	113.141	113.135			N/A
12/11/2018	USDJPY	11:30:00 AM	113.083	113.078			N/A
12/11/2018	USDJPY	1:30:00 PM	113.105	113.116			N/A
12/11/2018	USDJPY	3:30:00 PM	113.158	113.149			N/A
12/11/2018	USDMXN	9:30:00 AM	20.302	20.307			N/A
12/11/2018	USDMXN	11:30:00 AM	20.336	20.34			N/A
12/11/2018	USDMXN	1:30:00 PM	20.252	20.261			N/A
12/11/2018	USDMXN	3:30:00 PM	20.188	20.184			N/A
12/11/2018	USDNOK	9:30:00 AM	8.5408	8.549			N/A

12/11/2018	USDNOK	11:30:00 AM	8.5273	8.5351			N/A
12/11/2018	USDNOK	1:30:00 PM	8.5159	8.5237			N/A
12/11/2018	USDNOK	3:30:00 PM	8.5268	8.5313			N/A
12/11/2018	USDPLN	9:30:00 AM	3.7751	3.7764			N/A
12/11/2018	USDPLN	11:30:00 AM	3.7753	3.7766			N/A
12/11/2018	USDPLN	1:30:00 PM	3.7735	3.775			N/A
12/11/2018	USDPLN	3:30:00 PM	3.776	3.7766			N/A
12/11/2018	USDRUR	9:30:00 AM					N/A
12/11/2018	USDRUR	11:30:00 AM	66.259	66.651			N/A
12/11/2018	USDRUR	1:30:00 PM	66.214	66.577			N/A
12/11/2018	USDRUR	3:30:00 PM	66.103	66.467			N/A
12/11/2018	USDSEK	9:30:00 AM	9.0667	9.0697			N/A
12/11/2018	USDSEK	11:30:00 AM	9.0527	9.0535			N/A
12/11/2018	USDSEK	1:30:00 PM	9.0403	9.0431			N/A
12/11/2018	USDSEK	3:30:00 PM	9.0528	9.0555			N/A
12/11/2018	USDSGD	9:30:00 AM	1.3729	1.3732			N/A
12/11/2018	USDSGD	11:30:00 AM	1.3723	1.3727			N/A
12/11/2018	USDSGD	1:30:00 PM	1.3723	1.3727			N/A
12/11/2018	USDSGD	3:30:00 PM	1.3722	1.3724			N/A
12/11/2018	USDZAR	9:30:00 AM	14.3628	14.3719			N/A
12/11/2018	USDZAR	11:30:00 AM	14.4371	14.4469			N/A
12/11/2018	USDZAR	1:30:00 PM	14.3387	14.354			N/A
12/11/2018	USDZAR	3:30:00 PM	14.2929	14.2995			N/A
12/11/2018	XAUUSD	9:30:00 AM	1247.34	1247.39			N/A
12/11/2018	XAUUSD	11:30:00 AM	1248.37	1248.54			N/A
12/11/2018	XAUUSD	1:30:00 PM	1247.65	1247.88			N/A
12/11/2018	XAUUSD	3:30:00 PM	1246.26	1246.31			N/A
12/11/2018	ZARJPY	9:30:00 AM	7.86	7.88			N/A
12/11/2018	ZARJPY	11:30:00 AM	7.81	7.83			N/A
12/11/2018	ZARJPY	1:30:00 PM	7.87	7.89			N/A
12/11/2018	ZARJPY	3:30:00 PM	7.9	7.92			N/A
12/12/2018	#AA	9:30:00 AM					N/A
12/12/2018	#AA	11:30:00 AM					N/A
12/12/2018	#AA	1:30:00 PM					N/A
12/12/2018	#AA	3:30:00 PM					N/A
12/12/2018	#AABA	9:30:00 AM					N/A
12/12/2018	#AABA	11:30:00 AM					N/A
12/12/2018	#AABA	1:30:00 PM					N/A
12/12/2018	#AABA	3:30:00 PM					N/A
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12/12/2018	#AAL	3:30:00 PM					N/A
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12/12/2018	#AAPL	1:30:00 PM					N/A
12/12/2018	#AAPL	3:30:00 PM					N/A
12/12/2018	#ADBE	9:30:00 AM					N/A
12/12/2018	#ADBE	11:30:00 AM					N/A
12/12/2018	#ADBE	1:30:00 PM					N/A

12/12/2018	#ADBE	3:30:00 PM					N/A
12/12/2018	#AIG	9:30:00 AM					N/A
12/12/2018	#AIG	11:30:00 AM					N/A
12/12/2018	#AIG	1:30:00 PM					N/A
12/12/2018	#AIG	3:30:00 PM					N/A
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12/12/2018	#AMD	11:30:00 AM					N/A
12/12/2018	#AMD	1:30:00 PM					N/A
12/12/2018	#AMD	3:30:00 PM					N/A
12/12/2018	#AMZN	9:30:00 AM					N/A
12/12/2018	#AMZN	11:30:00 AM					N/A
12/12/2018	#AMZN	1:30:00 PM					N/A
12/12/2018	#AMZN	3:30:00 PM					N/A
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12/12/2018	#AXP	11:30:00 AM					N/A
12/12/2018	#AXP	1:30:00 PM					N/A
12/12/2018	#AXP	3:30:00 PM					N/A
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12/12/2018	#BA	3:30:00 PM					N/A
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12/12/2018	#BHP	3:30:00 PM					N/A
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12/12/2018	#BIDU	11:30:00 AM					N/A
12/12/2018	#BIDU	1:30:00 PM					N/A
12/12/2018	#BIDU	3:30:00 PM					N/A
12/12/2018	#BK	9:30:00 AM					N/A
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12/12/2018	#BK	1:30:00 PM					N/A
12/12/2018	#BK	3:30:00 PM					N/A
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12/12/2018	#BLT	11:30:00 AM					N/A
12/12/2018	#BLT	1:30:00 PM					N/A
12/12/2018	#BLT	3:30:00 PM					N/A
12/12/2018	#BP	9:30:00 AM					N/A

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12/12/2018	AUDCHF	11:30:00 AM	0.71551	0.71619			N/A
12/12/2018	AUDCHF	1:30:00 PM	0.71692	0.71757			N/A
12/12/2018	AUDCHF	3:30:00 PM	0.71622	0.71668			N/A
12/12/2018	AUDCZK	9:30:00 AM	16.441	16.459			N/A
12/12/2018	AUDCZK	11:30:00 AM	16.455	16.473			N/A
12/12/2018	AUDCZK	1:30:00 PM	16.444	16.462			N/A
12/12/2018	AUDCZK	3:30:00 PM	16.412	16.428			N/A
12/12/2018	AUDDKK	9:30:00 AM	4.7472	4.7518			N/A
12/12/2018	AUDDKK	11:30:00 AM	4.7492	4.7538			N/A
12/12/2018	AUDDKK	1:30:00 PM	4.7444	4.7492			N/A
12/12/2018	AUDDKK	3:30:00 PM	4.7388	4.7431			N/A
12/12/2018	AUDHKD	9:30:00 AM	5.6311	5.6348			N/A
12/12/2018	AUDHKD	11:30:00 AM	5.6332	5.6369			N/A
12/12/2018	AUDHKD	1:30:00 PM	5.6318	5.6351			N/A
12/12/2018	AUDHKD	3:30:00 PM	5.6293	5.6331			N/A
12/12/2018	AUDHUF	9:30:00 AM	205.71	205.96			N/A
12/12/2018	AUDHUF	11:30:00 AM	205.77	205.86			N/A
12/12/2018	AUDHUF	1:30:00 PM	205.51	205.69			N/A
12/12/2018	AUDHUF	3:30:00 PM	205.3	205.52			N/A
12/12/2018	AUDJPY	9:30:00 AM	81.765	81.828			N/A
12/12/2018	AUDJPY	11:30:00 AM	81.794	81.853			N/A
12/12/2018	AUDJPY	1:30:00 PM	81.75	81.806			N/A
12/12/2018	AUDJPY	3:30:00 PM	81.667	81.708			N/A
12/12/2018	AUDMXN	9:30:00 AM	14.5487	14.5583			N/A
12/12/2018	AUDMXN	11:30:00 AM	14.5242	14.5351			N/A
12/12/2018	AUDMXN	1:30:00 PM	14.496	14.504			N/A
12/12/2018	AUDMXN	3:30:00 PM	14.4492	14.4542			N/A
12/12/2018	AUDNOK	9:30:00 AM	6.1745	6.179			N/A
12/12/2018	AUDNOK	11:30:00 AM	6.1829	6.187			N/A
12/12/2018	AUDNOK	1:30:00 PM	6.184	6.1892			N/A
12/12/2018	AUDNOK	3:30:00 PM	6.1801	6.1841			N/A
12/12/2018	AUDNZD	9:30:00 AM	1.04998	1.0508			N/A
12/12/2018	AUDNZD	11:30:00 AM	1.05132	1.05225			N/A
12/12/2018	AUDNZD	1:30:00 PM	1.05205	1.05279			N/A
12/12/2018	AUDNZD	3:30:00 PM	1.05463	1.05503			N/A
12/12/2018	AUDPLN	9:30:00 AM	2.7343	2.737			N/A
12/12/2018	AUDPLN	11:30:00 AM	2.735	2.7381			N/A
12/12/2018	AUDPLN	1:30:00 PM	2.7341	2.7373			N/A
12/12/2018	AUDPLN	3:30:00 PM	2.7288	2.7315			N/A
12/12/2018	AUDSEK	9:30:00 AM	6.5401	6.5433			N/A
12/12/2018	AUDSEK	11:30:00 AM	6.5811	6.5829			N/A
12/12/2018	AUDSEK	1:30:00 PM	6.5933	6.5955			N/A
12/12/2018	AUDSEK	3:30:00 PM	6.5828	6.5841			N/A
12/12/2018	AUDSGD	9:30:00 AM	0.9899	0.9902			N/A
12/12/2018	AUDSGD	11:30:00 AM	0.9905	0.9906			N/A
12/12/2018	AUDSGD	1:30:00 PM	0.9901	0.9902			N/A
12/12/2018	AUDSGD	3:30:00 PM	0.9892	0.9894			N/A
12/12/2018	AUDUSD	9:30:00 AM	0.72083	0.72088			N/A

12/12/2018	AUDUSD	11:30:00 AM	0.72097	0.72107			N/A
12/12/2018	AUDUSD	1:30:00 PM	0.72081	0.72087			N/A
12/12/2018	AUDUSD	3:30:00 PM	0.72045	0.72042			N/A
12/12/2018	AUDZAR	9:30:00 AM	10.2979	10.3122			N/A
12/12/2018	AUDZAR	11:30:00 AM	10.3053	10.32			N/A
12/12/2018	AUDZAR	1:30:00 PM	10.3079	10.3169			N/A
12/12/2018	AUDZAR	3:30:00 PM	10.2406	10.2468			N/A
12/12/2018	CADCHF	9:30:00 AM	0.7419	0.74263			N/A
12/12/2018	CADCHF	11:30:00 AM	0.74181	0.74252			N/A
12/12/2018	CADCHF	1:30:00 PM	0.74345	0.74421			N/A
12/12/2018	CADCHF	3:30:00 PM	0.74338	0.74372			N/A
12/12/2018	CADCZK	9:30:00 AM	17.051	17.068			N/A
12/12/2018	CADCZK	11:30:00 AM	17.065	17.081			N/A
12/12/2018	CADCZK	1:30:00 PM	17.058	17.076			N/A
12/12/2018	CADCZK	3:30:00 PM	17.042	17.051			N/A
12/12/2018	CADDKK	9:30:00 AM					N/A
12/12/2018	CADDKK	11:30:00 AM					N/A
12/12/2018	CADDKK	1:30:00 PM					N/A
12/12/2018	CADDKK	3:30:00 PM					N/A
12/12/2018	CADHKD	9:30:00 AM	5.8402	5.8441			N/A
12/12/2018	CADHKD	11:30:00 AM	5.8423	5.8462			N/A
12/12/2018	CADHKD	1:30:00 PM	5.842	5.8459			N/A
12/12/2018	CADHKD	3:30:00 PM	5.845	5.8472			N/A
12/12/2018	CADHUF	9:30:00 AM	213.39	213.55			N/A
12/12/2018	CADHUF	11:30:00 AM	213.41	213.41			N/A
12/12/2018	CADHUF	1:30:00 PM	213.24	213.37			N/A
12/12/2018	CADHUF	3:30:00 PM	213.2	213.29			N/A
12/12/2018	CADJPY	9:30:00 AM	84.776	84.841			N/A
12/12/2018	CADJPY	11:30:00 AM	84.8	84.864			N/A
12/12/2018	CADJPY	1:30:00 PM	84.774	84.845			N/A
12/12/2018	CADJPY	3:30:00 PM	84.762	84.791			N/A
12/12/2018	CADMXN	9:30:00 AM	15.0869	15.099			N/A
12/12/2018	CADMXN	11:30:00 AM	15.0619	15.0747			N/A
12/12/2018	CADMXN	1:30:00 PM	15.0378	15.0456			N/A
12/12/2018	CADMXN	3:30:00 PM	15.0016	15.0035			N/A
12/12/2018	CADNOK	9:30:00 AM	6.4013	6.4061			N/A
12/12/2018	CADNOK	11:30:00 AM	6.41	6.4144			N/A
12/12/2018	CADNOK	1:30:00 PM	6.4137	6.418			N/A
12/12/2018	CADNOK	3:30:00 PM	6.4145	6.4172			N/A
12/12/2018	CADPLN	9:30:00 AM	2.835	2.8368			N/A
12/12/2018	CADPLN	11:30:00 AM	2.8364	2.8383			N/A
12/12/2018	CADPLN	1:30:00 PM	2.8365	2.8383			N/A
12/12/2018	CADPLN	3:30:00 PM	2.8326	2.8345			N/A
12/12/2018	CADSEK	9:30:00 AM	6.7804	6.7842			N/A
12/12/2018	CADSEK	11:30:00 AM	6.8223	6.8252			N/A
12/12/2018	CADSEK	1:30:00 PM	6.8365	6.8401			N/A
12/12/2018	CADSEK	3:30:00 PM	6.8309	6.8338			N/A
12/12/2018	CADSGD	9:30:00 AM	1.0266	1.0269			N/A
12/12/2018	CADSGD	11:30:00 AM	1.027	1.0273			N/A
12/12/2018	CADSGD	1:30:00 PM	1.0269	1.0272			N/A

12/12/2018	CADSGD	3:30:00 PM	1.0265	1.0269			N/A
12/12/2018	CADZAR	9:30:00 AM	10.679	10.6951			N/A
12/12/2018	CADZAR	11:30:00 AM	10.6871	10.7035			N/A
12/12/2018	CADZAR	1:30:00 PM	10.6925	10.7021			N/A
12/12/2018	CADZAR	3:30:00 PM	10.6312	10.6391			N/A
12/12/2018	CHFCZK	9:30:00 AM	22.975	22.992			N/A
12/12/2018	CHFCZK	11:30:00 AM	22.999	23.015			N/A
12/12/2018	CHFCZK	1:30:00 PM	22.938	22.955			N/A
12/12/2018	CHFCZK	3:30:00 PM	22.919	22.932			N/A
12/12/2018	CHFDKK	9:30:00 AM	6.633	6.636			N/A
12/12/2018	CHFDKK	11:30:00 AM	6.636	6.639			N/A
12/12/2018	CHFDKK	1:30:00 PM	6.617	6.62			N/A
12/12/2018	CHFDKK	3:30:00 PM	6.617	6.618			N/A
12/12/2018	CHFHKD	9:30:00 AM	7.8688	7.8727			N/A
12/12/2018	CHFHKD	11:30:00 AM	7.8727	7.8765			N/A
12/12/2018	CHFHKD	1:30:00 PM	7.8554	7.8592			N/A
12/12/2018	CHFHKD	3:30:00 PM	7.8608	7.8644			N/A
12/12/2018	CHFHUF	9:30:00 AM	287.39	287.78			N/A
12/12/2018	CHFHUF	11:30:00 AM	287.48	287.67			N/A
12/12/2018	CHFHUF	1:30:00 PM	286.63	286.93			N/A
12/12/2018	CHFHUF	3:30:00 PM	286.64	286.97			N/A
12/12/2018	CHFJPY	9:30:00 AM	114.225	114.289			N/A
12/12/2018	CHFJPY	11:30:00 AM	114.269	114.334			N/A
12/12/2018	CHFJPY	1:30:00 PM	113.984	114.051			N/A
12/12/2018	CHFJPY	3:30:00 PM	113.998	114.016			N/A
12/12/2018	CHFMXN	9:30:00 AM	20.3262	20.342			N/A
12/12/2018	CHFMXN	11:30:00 AM	20.2961	20.3137			N/A
12/12/2018	CHFMXN	1:30:00 PM	20.218	20.2289			N/A
12/12/2018	CHFMXN	3:30:00 PM	20.1732	20.181			N/A
12/12/2018	CHFNOK	9:30:00 AM	8.6243	8.6312			N/A
12/12/2018	CHFNOK	11:30:00 AM	8.6373	8.6429			N/A
12/12/2018	CHFNOK	1:30:00 PM	8.6224	8.6294			N/A
12/12/2018	CHFNOK	3:30:00 PM	8.6263	8.6304			N/A
12/12/2018	CHFPLN	9:30:00 AM	3.8198	3.8223			N/A
12/12/2018	CHFPLN	11:30:00 AM	3.8214	3.8244			N/A
12/12/2018	CHFPLN	1:30:00 PM	3.8132	3.8157			N/A
12/12/2018	CHFPLN	3:30:00 PM	3.8096	3.8112			N/A
12/12/2018	CHFSEK	9:30:00 AM	9.1345	9.1394			N/A
12/12/2018	CHFSEK	11:30:00 AM	9.1932	9.1961			N/A
12/12/2018	CHFSEK	1:30:00 PM	9.1915	9.1964			N/A
12/12/2018	CHFSEK	3:30:00 PM	9.1881	9.1897			N/A
12/12/2018	CHFSGD	9:30:00 AM	1.3827	1.3832			N/A
12/12/2018	CHFSGD	11:30:00 AM	1.3836	1.384			N/A
12/12/2018	CHFSGD	1:30:00 PM	1.3803	1.3808			N/A
12/12/2018	CHFSGD	3:30:00 PM	1.3807	1.3809			N/A
12/12/2018	CHFZAR	9:30:00 AM	14.3913	14.4049			N/A
12/12/2018	CHFZAR	11:30:00 AM	14.4048	14.4182			N/A
12/12/2018	CHFZAR	1:30:00 PM	14.3803	14.3844			N/A
12/12/2018	CHFZAR	3:30:00 PM	14.3029	14.3021			N/A
12/12/2018	CZKJPY	9:30:00 AM					N/A

12/12/2018	CZKJPY	11:30:00 AM	4.968	4.972			N/A
12/12/2018	CZKJPY	1:30:00 PM					N/A
12/12/2018	CZKJPY	3:30:00 PM					N/A
12/12/2018	DKKJPY	9:30:00 AM					N/A
12/12/2018	DKKJPY	11:30:00 AM					N/A
12/12/2018	DKKJPY	1:30:00 PM	17.23	17.24			N/A
12/12/2018	DKKJPY	3:30:00 PM					N/A
12/12/2018	EURAUD	9:30:00 AM	1.5708	1.57117			N/A
12/12/2018	EURAUD	11:30:00 AM	1.57017	1.57057			N/A
12/12/2018	EURAUD	1:30:00 PM	1.57171	1.57214			N/A
12/12/2018	EURAUD	3:30:00 PM	1.5737	1.57389			N/A
12/12/2018	EURCAD	9:30:00 AM	1.51548	1.51624			N/A
12/12/2018	EURCAD	11:30:00 AM	1.51481	1.51567			N/A
12/12/2018	EURCAD	1:30:00 PM	1.51589	1.51669			N/A
12/12/2018	EURCAD	3:30:00 PM	1.51674	1.51713			N/A
12/12/2018	EURCHF	9:30:00 AM	1.12516	1.12519			N/A
12/12/2018	EURCHF	11:30:00 AM	1.12453	1.1246			N/A
12/12/2018	EURCHF	1:30:00 PM	1.12783	1.12786			N/A
12/12/2018	EURCHF	3:30:00 PM	1.12838	1.12785			N/A
12/12/2018	EURCZK	9:30:00 AM	25.835	25.874			N/A
12/12/2018	EURCZK	11:30:00 AM	25.847	25.887			N/A
12/12/2018	EURCZK	1:30:00 PM	25.856	25.896			N/A
12/12/2018	EURCZK	3:30:00 PM	25.836	25.872			N/A
12/12/2018	EURDKK	9:30:00 AM	7.4638	7.465			N/A
12/12/2018	EURDKK	11:30:00 AM	7.4639	7.4652			N/A
12/12/2018	EURDKK	1:30:00 PM	7.4639	7.4651			N/A
12/12/2018	EURDKK	3:30:00 PM	7.4624	7.4635			N/A
12/12/2018	EURGBP	9:30:00 AM	0.90541	0.90548			N/A
12/12/2018	EURGBP	11:30:00 AM	0.9035	0.90351			N/A
12/12/2018	EURGBP	1:30:00 PM	0.90431	0.90425			N/A
12/12/2018	EURGBP	3:30:00 PM	0.90169	0.90164			N/A
12/12/2018	EURHKD	9:30:00 AM	8.853	8.8567			N/A
12/12/2018	EURHKD	11:30:00 AM	8.8529	8.8571			N/A
12/12/2018	EURHKD	1:30:00 PM	8.8584	8.8629			N/A
12/12/2018	EURHKD	3:30:00 PM	8.8654	8.8681			N/A
12/12/2018	EURHUF	9:30:00 AM	323.25	323.96			N/A
12/12/2018	EURHUF	11:30:00 AM	323.23	323.97			N/A
12/12/2018	EURHUF	1:30:00 PM	323.15	323.83			N/A
12/12/2018	EURHUF	3:30:00 PM	323.14	323.88			N/A
12/12/2018	EURJPY	9:30:00 AM	128.558	128.553			N/A
12/12/2018	EURJPY	11:30:00 AM	128.539	128.534			N/A
12/12/2018	EURJPY	1:30:00 PM	128.597	128.587			N/A
12/12/2018	EURJPY	3:30:00 PM	128.622	128.585			N/A
12/12/2018	EURMXN	9:30:00 AM	22.8719	22.8896			N/A
12/12/2018	EURMXN	11:30:00 AM	22.8262	22.8426			N/A
12/12/2018	EURMXN	1:30:00 PM	22.8028	22.815			N/A
12/12/2018	EURMXN	3:30:00 PM	22.7604	22.7641			N/A
12/12/2018	EURNOK	9:30:00 AM	9.7017	9.7132			N/A
12/12/2018	EURNOK	11:30:00 AM	9.7109	9.7215			N/A
12/12/2018	EURNOK	1:30:00 PM	9.7223	9.7346			N/A

12/12/2018	EURNOK	3:30:00 PM	9.7268	9.7392			N/A
12/12/2018	EURNZD	9:30:00 AM	1.65042	1.65116			N/A
12/12/2018	EURNZD	11:30:00 AM	1.65188	1.65274			N/A
12/12/2018	EURNZD	1:30:00 PM	1.65474	1.65531			N/A
12/12/2018	EURNZD	3:30:00 PM	1.66059	1.66081			N/A
12/12/2018	EURPLN	9:30:00 AM	4.2979	4.3005			N/A
12/12/2018	EURPLN	11:30:00 AM	4.2975	4.3005			N/A
12/12/2018	EURPLN	1:30:00 PM	4.3004	4.3033			N/A
12/12/2018	EURPLN	3:30:00 PM	4.297	4.2996			N/A
12/12/2018	EURRUR	9:30:00 AM					N/A
12/12/2018	EURRUR	11:30:00 AM	74.95	75.385			N/A
12/12/2018	EURRUR	1:30:00 PM	74.998	75.401			N/A
12/12/2018	EURRUR	3:30:00 PM	74.92	75.343			N/A
12/12/2018	EURSEK	9:30:00 AM	10.2786	10.2832			N/A
12/12/2018	EURSEK	11:30:00 AM	10.3392	10.342			N/A
12/12/2018	EURSEK	1:30:00 PM	10.368	10.3712			N/A
12/12/2018	EURSEK	3:30:00 PM	10.3632	10.3664			N/A
12/12/2018	EURSGD	9:30:00 AM	1.5557	1.5564			N/A
12/12/2018	EURSGD	11:30:00 AM	1.5558	1.5566			N/A
12/12/2018	EURSGD	1:30:00 PM	1.5566	1.5574			N/A
12/12/2018	EURSGD	3:30:00 PM	1.5573	1.5577			N/A
12/12/2018	EURUSD	9:30:00 AM	1.13281	1.13274			N/A
12/12/2018	EURUSD	11:30:00 AM	1.13251	1.13257			N/A
12/12/2018	EURUSD	1:30:00 PM	1.13336	1.13338			N/A
12/12/2018	EURUSD	3:30:00 PM	1.13417	1.13396			N/A
12/12/2018	EURZAR	9:30:00 AM	16.1962	16.2145			N/A
12/12/2018	EURZAR	11:30:00 AM	16.1991	16.2186			N/A
12/12/2018	EURZAR	1:30:00 PM	16.2142	16.2259			N/A
12/12/2018	EURZAR	3:30:00 PM	16.1372	16.1394			N/A
12/12/2018	GBPAUD	9:30:00 AM	1.7354	1.73615			N/A
12/12/2018	GBPAUD	11:30:00 AM	1.73848	1.73902			N/A
12/12/2018	GBPAUD	1:30:00 PM	1.73874	1.73912			N/A
12/12/2018	GBPAUD	3:30:00 PM	1.74591	1.7463			N/A
12/12/2018	GBPCAD	9:30:00 AM	1.67375	1.67454			N/A
12/12/2018	GBPCAD	11:30:00 AM	1.67678	1.67743			N/A
12/12/2018	GBPCAD	1:30:00 PM	1.67648	1.67708			N/A
12/12/2018	GBPCAD	3:30:00 PM	1.68224	1.68245			N/A
12/12/2018	GBPCHF	9:30:00 AM	1.24243	1.24289			N/A
12/12/2018	GBPCHF	11:30:00 AM	1.2445	1.24493			N/A
12/12/2018	GBPCHF	1:30:00 PM	1.24705	1.24739			N/A
12/12/2018	GBPCHF	3:30:00 PM	1.25098	1.251			N/A
12/12/2018	GBPCZK	9:30:00 AM	28.542	28.565			N/A
12/12/2018	GBPCZK	11:30:00 AM	28.619	28.64			N/A
12/12/2018	GBPCZK	1:30:00 PM	28.604	28.622			N/A
12/12/2018	GBPCZK	3:30:00 PM	28.66	28.681			N/A
12/12/2018	GBPDKK	9:30:00 AM	8.239	8.251			N/A
12/12/2018	GBPDKK	11:30:00 AM	8.257	8.267			N/A
12/12/2018	GBPDKK	1:30:00 PM	8.249	8.26			N/A
12/12/2018	GBPDKK	3:30:00 PM	8.274	8.283			N/A
12/12/2018	GBPHKD	9:30:00 AM	9.7753	9.781			N/A

12/12/2018	GBPHKD	11:30:00 AM	9.797	9.8029			N/A
12/12/2018	GBPHKD	1:30:00 PM	9.7946	9.8			N/A
12/12/2018	GBPHKD	3:30:00 PM	9.8293	9.8346			N/A
12/12/2018	GBPHUF	9:30:00 AM	357.06	357.52			N/A
12/12/2018	GBPHUF	11:30:00 AM	357.79	357.91			N/A
12/12/2018	GBPHUF	1:30:00 PM	357.45	357.78			N/A
12/12/2018	GBPHUF	3:30:00 PM	358.43	358.88			N/A
12/12/2018	GBPJPY	9:30:00 AM	141.966	142			N/A
12/12/2018	GBPJPY	11:30:00 AM	142.253	142.288			N/A
12/12/2018	GBPJPY	1:30:00 PM	142.2	142.216			N/A
12/12/2018	GBPJPY	3:30:00 PM	142.626	142.624	600	600	N/A
12/12/2018	GBPMXN	9:30:00 AM	25.2558	25.271			N/A
12/12/2018	GBPMXN	11:30:00 AM	25.2595	25.273			N/A
12/12/2018	GBPMXN	1:30:00 PM	25.2116	25.2174			N/A
12/12/2018	GBPMXN	3:30:00 PM	25.2302	25.2362			N/A
12/12/2018	GBPNOK	9:30:00 AM	10.7163	10.7263			N/A
12/12/2018	GBPNOK	11:30:00 AM	10.75	10.7575			N/A
12/12/2018	GBPNOK	1:30:00 PM	10.7538	10.7627			N/A
12/12/2018	GBPNOK	3:30:00 PM	10.7895	10.7986			N/A
12/12/2018	GBPNZD	9:30:00 AM	1.82286	1.82348			N/A
12/12/2018	GBPNZD	11:30:00 AM	1.82853	1.8291			N/A
12/12/2018	GBPNZD	1:30:00 PM	1.83012	1.83017			N/A
12/12/2018	GBPNZD	3:30:00 PM	1.84172	1.84164			N/A
12/12/2018	GBPPLN	9:30:00 AM	4.7477	4.7488			N/A
12/12/2018	GBPPLN	11:30:00 AM	4.7576	4.759			N/A
12/12/2018	GBPPLN	1:30:00 PM	4.7565	4.7577			N/A
12/12/2018	GBPPLN	3:30:00 PM	4.7664	4.7671			N/A
12/12/2018	GBPSEK	9:30:00 AM	11.3498	11.3594			N/A
12/12/2018	GBPSEK	11:30:00 AM	11.4412	11.449			N/A
12/12/2018	GBPSEK	1:30:00 PM	11.4629	11.4712			N/A
12/12/2018	GBPSEK	3:30:00 PM	11.4913	11.4989			N/A
12/12/2018	GBPSGD	9:30:00 AM	1.7182	1.7189			N/A
12/12/2018	GBPSGD	11:30:00 AM	1.7221	1.7228			N/A
12/12/2018	GBPSGD	1:30:00 PM	1.7214	1.7221			N/A
12/12/2018	GBPSGD	3:30:00 PM	1.7272	1.7275			N/A
12/12/2018	GBPUSD	9:30:00 AM	1.25123	1.25124			N/A
12/12/2018	GBPUSD	11:30:00 AM	1.25369	1.2537			N/A
12/12/2018	GBPUSD	1:30:00 PM	1.25351	1.25344			N/A
12/12/2018	GBPUSD	3:30:00 PM	1.25801	1.25777			N/A
12/12/2018	GBPZAR	9:30:00 AM	17.8853	17.9123			N/A
12/12/2018	GBPZAR	11:30:00 AM	17.9267	17.9551			N/A
12/12/2018	GBPZAR	1:30:00 PM	17.9287	17.9441			N/A
12/12/2018	GBPZAR	3:30:00 PM	17.8925	17.9015			N/A
12/12/2018	GOLD	9:30:00 AM	1242.74	1243.08			N/A
12/12/2018	GOLD	11:30:00 AM	1243.56	1243.79			N/A
12/12/2018	GOLD	1:30:00 PM	1243.66	1244.05			N/A
12/12/2018	GOLD	3:30:00 PM	1245.16	1245.11			N/A
12/12/2018	HKDJPY	9:30:00 AM	14.52	14.53			N/A
12/12/2018	HKDJPY	11:30:00 AM	14.52	14.53			N/A
12/12/2018	HKDJPY	1:30:00 PM					N/A

12/12/2018	HKDJPY	3:30:00 PM	14.5	14.51			N/A
12/12/2018	HUFJPY	9:30:00 AM	0.3975	0.3978			N/A
12/12/2018	HUFJPY	11:30:00 AM	0.3976	0.3979			N/A
12/12/2018	HUFJPY	1:30:00 PM	0.3977	0.398			N/A
12/12/2018	HUFJPY	3:30:00 PM	0.3978	0.3981			N/A
12/12/2018	MXNJPY	9:30:00 AM	5.61	5.63			N/A
12/12/2018	MXNJPY	11:30:00 AM	5.63	5.64			N/A
12/12/2018	MXNJPY	1:30:00 PM	5.64	5.65			N/A
12/12/2018	MXNJPY	3:30:00 PM	5.65	5.66			N/A
12/12/2018	NOKJPY	9:30:00 AM	13.22	13.26			N/A
12/12/2018	NOKJPY	11:30:00 AM	13.22	13.25			N/A
12/12/2018	NOKJPY	1:30:00 PM	13.21	13.24			N/A
12/12/2018	NOKJPY	3:30:00 PM	13.2	13.23			N/A
12/12/2018	NZDCAD	9:30:00 AM	0.91797	0.91861			N/A
12/12/2018	NZDCAD	11:30:00 AM	0.91667	0.91743			N/A
12/12/2018	NZDCAD	1:30:00 PM	0.91595	0.91647			N/A
12/12/2018	NZDCAD	3:30:00 PM	0.91331	0.91366			N/A
12/12/2018	NZDCHF	9:30:00 AM	0.68125	0.68192			N/A
12/12/2018	NZDCHF	11:30:00 AM	0.68024	0.68095			N/A
12/12/2018	NZDCHF	1:30:00 PM	0.68121	0.68178			N/A
12/12/2018	NZDCHF	3:30:00 PM	0.67914	0.67943			N/A
12/12/2018	NZDCZK	9:30:00 AM	15.655	15.667			N/A
12/12/2018	NZDCZK	11:30:00 AM	15.647	15.66			N/A
12/12/2018	NZDCZK	1:30:00 PM	15.628	15.638			N/A
12/12/2018	NZDCZK	3:30:00 PM	15.562	15.569			N/A
12/12/2018	NZDDKK	9:30:00 AM					N/A
12/12/2018	NZDDKK	11:30:00 AM					N/A
12/12/2018	NZDDKK	1:30:00 PM	4.508	4.512			N/A
12/12/2018	NZDDKK	3:30:00 PM					N/A
12/12/2018	NZDHKD	9:30:00 AM	5.3614	5.3638			N/A
12/12/2018	NZDHKD	11:30:00 AM	5.3558	5.3586			N/A
12/12/2018	NZDHKD	1:30:00 PM	5.3511	5.3526			N/A
12/12/2018	NZDHKD	3:30:00 PM	5.3368	5.3388			N/A
12/12/2018	NZDHUF	9:30:00 AM	195.81	196.1			N/A
12/12/2018	NZDHUF	11:30:00 AM	195.6	195.74			N/A
12/12/2018	NZDHUF	1:30:00 PM	195.24	195.42			N/A
12/12/2018	NZDHUF	3:30:00 PM	194.59	194.82			N/A
12/12/2018	NZDJPY	9:30:00 AM	77.845	77.907			N/A
12/12/2018	NZDJPY	11:30:00 AM	77.761	77.827			N/A
12/12/2018	NZDJPY	1:30:00 PM	77.677	77.729			N/A
12/12/2018	NZDJPY	3:30:00 PM	77.421	77.457			N/A
12/12/2018	NZDMXN	9:30:00 AM	13.8526	13.8573			N/A
12/12/2018	NZDMXN	11:30:00 AM	13.8106	13.8171			N/A
12/12/2018	NZDMXN	1:30:00 PM	13.7732	13.7789			N/A
12/12/2018	NZDMXN	3:30:00 PM	13.6995	13.6969			N/A
12/12/2018	NZDNOK	9:30:00 AM	5.8761	5.88			N/A
12/12/2018	NZDNOK	11:30:00 AM	5.8765	5.8802			N/A
12/12/2018	NZDNOK	1:30:00 PM	5.8738	5.8771			N/A
12/12/2018	NZDNOK	3:30:00 PM	5.8565	5.86			N/A
12/12/2018	NZDPLN	9:30:00 AM	2.6028	2.6042			N/A

12/12/2018	NZDPLN	11:30:00 AM	2.6	2.6014			N/A
12/12/2018	NZDPLN	1:30:00 PM	2.5977	2.5989			N/A
12/12/2018	NZDPLN	3:30:00 PM	2.5871	2.5879			N/A
12/12/2018	NZDSEK	9:30:00 AM	6.2218	6.2286			N/A
12/12/2018	NZDSEK	11:30:00 AM	6.2526	6.258			N/A
12/12/2018	NZDSEK	1:30:00 PM	6.2608	6.265			N/A
12/12/2018	NZDSEK	3:30:00 PM	6.2359	6.2406			N/A
12/12/2018	NZDSGD	9:30:00 AM	0.9424	0.9429			N/A
12/12/2018	NZDSGD	11:30:00 AM	0.9416	0.9422			N/A
12/12/2018	NZDSGD	1:30:00 PM	0.9406	0.9411			N/A
12/12/2018	NZDSGD	3:30:00 PM	0.9378	0.938			N/A
12/12/2018	NZDUSD	9:30:00 AM	0.68625	0.68626			N/A
12/12/2018	NZDUSD	11:30:00 AM	0.68541	0.68553			N/A
12/12/2018	NZDUSD	1:30:00 PM	0.68487	0.68486			N/A
12/12/2018	NZDUSD	3:30:00 PM	0.68303	0.68288			N/A
12/12/2018	NZDZAR	9:30:00 AM	9.8025	9.8172			N/A
12/12/2018	NZDZAR	11:30:00 AM	9.7964	9.8127			N/A
12/12/2018	NZDZAR	1:30:00 PM	9.7892	9.8039			N/A
12/12/2018	NZDZAR	3:30:00 PM	9.7068	9.7151			N/A
12/12/2018	SEKJPY	9:30:00 AM	12.5	12.51			N/A
12/12/2018	SEKJPY	11:30:00 AM	12.43	12.44			N/A
12/12/2018	SEKJPY	1:30:00 PM					N/A
12/12/2018	SEKJPY	3:30:00 PM	12.41	12.42			N/A
12/12/2018	SGDJPY	9:30:00 AM	82.59	82.62			N/A
12/12/2018	SGDJPY	11:30:00 AM	82.57	82.59			N/A
12/12/2018	SGDJPY	1:30:00 PM	82.56	82.59			N/A
12/12/2018	SGDJPY	3:30:00 PM	82.54	82.56			N/A
12/12/2018	SILVER	9:30:00 AM	14.38	14.76			N/A
12/12/2018	SILVER	11:30:00 AM	14.42	14.8			N/A
12/12/2018	SILVER	1:30:00 PM	14.44	14.82			N/A
12/12/2018	SILVER	3:30:00 PM	14.48	14.84			N/A
12/12/2018	USDCAD	9:30:00 AM	1.33805	1.33806			N/A
12/12/2018	USDCAD	11:30:00 AM	1.33771	1.33781			N/A
12/12/2018	USDCAD	1:30:00 PM	1.33762	1.33776			N/A
12/12/2018	USDCAD	3:30:00 PM	1.33761	1.33733			N/A
12/12/2018	USDCHF	9:30:00 AM	0.99311	0.99319			N/A
12/12/2018	USDCHF	11:30:00 AM	0.99279	0.9929			N/A
12/12/2018	USDCHF	1:30:00 PM	0.99493	0.99509			N/A
12/12/2018	USDCHF	3:30:00 PM	0.99459	0.99435			N/A
12/12/2018	USDCZK	9:30:00 AM	22.82	22.84			N/A
12/12/2018	USDCZK	11:30:00 AM	22.831	22.852			N/A
12/12/2018	USDCZK	1:30:00 PM	22.823	22.844			N/A
12/12/2018	USDCZK	3:30:00 PM	22.797	22.809			N/A
12/12/2018	USDDKK	9:30:00 AM	6.5878	6.5907			N/A
12/12/2018	USDDKK	11:30:00 AM	6.5898	6.5928			N/A
12/12/2018	USDDKK	1:30:00 PM	6.5845	6.5877			N/A
12/12/2018	USDDKK	3:30:00 PM	6.5807	6.5827			N/A
12/12/2018	USDHKD	9:30:00 AM					N/A
12/12/2018	USDHKD	11:30:00 AM	7.8175	7.8176			N/A
12/12/2018	USDHKD	1:30:00 PM	7.8167	7.8171			N/A

12/12/2018	USDHKD	3:30:00 PM	7.8173	7.8176			N/A
12/12/2018	USDHUF	9:30:00 AM	285.44	285.87			N/A
12/12/2018	USDHUF	11:30:00 AM	285.46	285.92			N/A
12/12/2018	USDHUF	1:30:00 PM	285.18	285.59			N/A
12/12/2018	USDHUF	3:30:00 PM	285.03	285.41			N/A
12/12/2018	USDJPY	9:30:00 AM	113.478	113.478			N/A
12/12/2018	USDJPY	11:30:00 AM	113.478	113.485			N/A
12/12/2018	USDJPY	1:30:00 PM	113.445	113.451			N/A
12/12/2018	USDJPY	3:30:00 PM	113.407	113.37			N/A
12/12/2018	USDMXN	9:30:00 AM	20.191	20.2			N/A
12/12/2018	USDMXN	11:30:00 AM	20.157	20.162			N/A
12/12/2018	USDMXN	1:30:00 PM	20.122	20.122			N/A
12/12/2018	USDMXN	3:30:00 PM	20.074	20.064			N/A
12/12/2018	USDNOK	9:30:00 AM	8.5654	8.572			N/A
12/12/2018	USDNOK	11:30:00 AM	8.5749	8.5811			N/A
12/12/2018	USDNOK	1:30:00 PM	8.5793	8.5868			N/A
12/12/2018	USDNOK	3:30:00 PM	8.5786	8.5849			N/A
12/12/2018	USDPLN	9:30:00 AM	3.7946	3.7949			N/A
12/12/2018	USDPLN	11:30:00 AM	3.7948	3.7961			N/A
12/12/2018	USDPLN	1:30:00 PM	3.7945	3.7958			N/A
12/12/2018	USDPLN	3:30:00 PM	3.7893	3.7896			N/A
12/12/2018	USDRUR	9:30:00 AM					N/A
12/12/2018	USDRUR	11:30:00 AM	66.242	66.627			N/A
12/12/2018	USDRUR	1:30:00 PM	66.236	66.588			N/A
12/12/2018	USDRUR	3:30:00 PM	66.123	66.504			N/A
12/12/2018	USDSEK	9:30:00 AM	9.0725	9.0761			N/A
12/12/2018	USDSEK	11:30:00 AM	9.1273	9.1298			N/A
12/12/2018	USDSEK	1:30:00 PM	9.1458	9.1499			N/A
12/12/2018	USDSEK	3:30:00 PM	9.1369	9.1389			N/A
12/12/2018	USDSGD	9:30:00 AM	1.3733	1.3736			N/A
12/12/2018	USDSGD	11:30:00 AM	1.3737	1.3741			N/A
12/12/2018	USDSGD	1:30:00 PM	1.3734	1.3738			N/A
12/12/2018	USDSGD	3:30:00 PM	1.373	1.3734			N/A
12/12/2018	USDZAR	9:30:00 AM	14.2973	14.3122			N/A
12/12/2018	USDZAR	11:30:00 AM	14.3007	14.3194			N/A
12/12/2018	USDZAR	1:30:00 PM	14.305	14.3148			N/A
12/12/2018	USDZAR	3:30:00 PM	14.2268	14.2296			N/A
12/12/2018	XAUUSD	9:30:00 AM	1242.72	1243			N/A
12/12/2018	XAUUSD	11:30:00 AM	1243.58	1243.67			N/A
12/12/2018	XAUUSD	1:30:00 PM	1243.65	1243.94			N/A
12/12/2018	XAUUSD	3:30:00 PM	1245.15	1245.06			N/A
12/12/2018	ZARJPY	9:30:00 AM	7.9	7.93			N/A
12/12/2018	ZARJPY	11:30:00 AM	7.91	7.93			N/A
12/12/2018	ZARJPY	1:30:00 PM	7.91	7.92			N/A
12/12/2018	ZARJPY	3:30:00 PM	7.95	7.97			N/A
12/13/2018	#AA	9:30:00 AM					N/A
12/13/2018	#AA	11:30:00 AM					N/A
12/13/2018	#AA	1:30:00 PM					N/A
12/13/2018	#AA	3:30:00 PM					N/A
12/13/2018	#AABA	9:30:00 AM					N/A

12/13/2018	#AABA	11:30:00 AM					N/A
12/13/2018	#AABA	1:30:00 PM					N/A
12/13/2018	#AABA	3:30:00 PM					N/A
12/13/2018	#AAL	9:30:00 AM					N/A
12/13/2018	#AAL	11:30:00 AM					N/A
12/13/2018	#AAL	1:30:00 PM					N/A
12/13/2018	#AAL	3:30:00 PM					N/A
12/13/2018	#AAPL	9:30:00 AM					N/A
12/13/2018	#AAPL	11:30:00 AM					N/A
12/13/2018	#AAPL	1:30:00 PM					N/A
12/13/2018	#AAPL	3:30:00 PM					N/A
12/13/2018	#ADBE	9:30:00 AM					N/A
12/13/2018	#ADBE	11:30:00 AM					N/A
12/13/2018	#ADBE	1:30:00 PM					N/A
12/13/2018	#ADBE	3:30:00 PM					N/A
12/13/2018	#AIG	9:30:00 AM					N/A
12/13/2018	#AIG	11:30:00 AM					N/A
12/13/2018	#AIG	1:30:00 PM					N/A
12/13/2018	#AIG	3:30:00 PM					N/A
12/13/2018	#AMD	9:30:00 AM					N/A
12/13/2018	#AMD	11:30:00 AM					N/A
12/13/2018	#AMD	1:30:00 PM					N/A
12/13/2018	#AMD	3:30:00 PM					N/A
12/13/2018	#AMZN	9:30:00 AM					N/A
12/13/2018	#AMZN	11:30:00 AM					N/A
12/13/2018	#AMZN	1:30:00 PM					N/A
12/13/2018	#AMZN	3:30:00 PM					N/A
12/13/2018	#AXP	9:30:00 AM					N/A
12/13/2018	#AXP	11:30:00 AM					N/A
12/13/2018	#AXP	1:30:00 PM					N/A
12/13/2018	#AXP	3:30:00 PM					N/A
12/13/2018	#BA	9:30:00 AM					N/A
12/13/2018	#BA	11:30:00 AM					N/A
12/13/2018	#BA	1:30:00 PM					N/A
12/13/2018	#BA	3:30:00 PM					N/A
12/13/2018	#BABA	9:30:00 AM					N/A
12/13/2018	#BABA	11:30:00 AM					N/A
12/13/2018	#BABA	1:30:00 PM					N/A
12/13/2018	#BABA	3:30:00 PM					N/A
12/13/2018	#BAC	9:30:00 AM					N/A
12/13/2018	#BAC	11:30:00 AM					N/A
12/13/2018	#BAC	1:30:00 PM					N/A
12/13/2018	#BAC	3:30:00 PM					N/A
12/13/2018	#BARC	9:30:00 AM					N/A
12/13/2018	#BARC	11:30:00 AM					N/A
12/13/2018	#BARC	1:30:00 PM					N/A
12/13/2018	#BARC	3:30:00 PM					N/A
12/13/2018	#BHP	9:30:00 AM					N/A
12/13/2018	#BHP	11:30:00 AM					N/A
12/13/2018	#BHP	1:30:00 PM					N/A

12/13/2018	#BHP	3:30:00 PM					N/A
12/13/2018	#BIDU	9:30:00 AM					N/A
12/13/2018	#BIDU	11:30:00 AM					N/A
12/13/2018	#BIDU	1:30:00 PM					N/A
12/13/2018	#BIDU	3:30:00 PM					N/A
12/13/2018	#BK	9:30:00 AM					N/A
12/13/2018	#BK	11:30:00 AM					N/A
12/13/2018	#BK	1:30:00 PM					N/A
12/13/2018	#BK	3:30:00 PM					N/A
12/13/2018	#BLT	9:30:00 AM					N/A
12/13/2018	#BLT	11:30:00 AM					N/A
12/13/2018	#BLT	1:30:00 PM					N/A
12/13/2018	#BLT	3:30:00 PM					N/A
12/13/2018	#BP	9:30:00 AM					N/A
12/13/2018	#BP	11:30:00 AM					N/A
12/13/2018	#BP	1:30:00 PM					N/A
12/13/2018	#BP	3:30:00 PM					N/A
12/13/2018	#BTA	9:30:00 AM					N/A
12/13/2018	#BTA	11:30:00 AM					N/A
12/13/2018	#BTA	1:30:00 PM					N/A
12/13/2018	#BTA	3:30:00 PM					N/A
12/13/2018	#C	9:30:00 AM					N/A
12/13/2018	#C	11:30:00 AM					N/A
12/13/2018	#C	1:30:00 PM					N/A
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12/13/2018	AUDDKK	9:30:00 AM	4.7497	4.7542			N/A
12/13/2018	AUDDKK	11:30:00 AM	4.7434	4.748			N/A
12/13/2018	AUDDKK	1:30:00 PM	4.7425	4.7469			N/A
12/13/2018	AUDDKK	3:30:00 PM	4.7417	4.7457			N/A
12/13/2018	AUDHKD	9:30:00 AM	5.6519	5.6558			N/A
12/13/2018	AUDHKD	11:30:00 AM	5.6466	5.6505			N/A
12/13/2018	AUDHKD	1:30:00 PM	5.6478	5.651			N/A
12/13/2018	AUDHKD	3:30:00 PM	5.6456	5.6483			N/A
12/13/2018	AUDHUF	9:30:00 AM	205.34	205.58			N/A
12/13/2018	AUDHUF	11:30:00 AM	205.26	205.49			N/A
12/13/2018	AUDHUF	1:30:00 PM	205.34	205.56			N/A
12/13/2018	AUDHUF	3:30:00 PM	205.12	205.35			N/A
12/13/2018	AUDJPY	9:30:00 AM	82.113	82.175			N/A
12/13/2018	AUDJPY	11:30:00 AM	82.073	82.131			N/A
12/13/2018	AUDJPY	1:30:00 PM	82.02	82.082			N/A
12/13/2018	AUDJPY	3:30:00 PM	82.016	82.083			N/A
12/13/2018	AUDMXN	9:30:00 AM	14.5306	14.5388			N/A
12/13/2018	AUDMXN	11:30:00 AM	14.5273	14.5347			N/A
12/13/2018	AUDMXN	1:30:00 PM	14.569	14.5784			N/A
12/13/2018	AUDMXN	3:30:00 PM	14.5327	14.5415			N/A
12/13/2018	AUDNOK	9:30:00 AM	6.1967	6.2006			N/A
12/13/2018	AUDNOK	11:30:00 AM	6.1754	6.1794			N/A
12/13/2018	AUDNOK	1:30:00 PM	6.1813	6.1859			N/A
12/13/2018	AUDNOK	3:30:00 PM	6.1912	6.1944			N/A
12/13/2018	AUDNZD	9:30:00 AM	1.05259	1.05339			N/A
12/13/2018	AUDNZD	11:30:00 AM	1.05255	1.05345			N/A
12/13/2018	AUDNZD	1:30:00 PM	1.05282	1.05376			N/A

12/13/2018	AUDNZD	3:30:00 PM	1.05226	1.05317			N/A
12/13/2018	AUDPLN	9:30:00 AM	2.7293	2.7322			N/A
12/13/2018	AUDPLN	11:30:00 AM	2.7287	2.7313			N/A
12/13/2018	AUDPLN	1:30:00 PM	2.7285	2.7317			N/A
12/13/2018	AUDPLN	3:30:00 PM	2.726	2.729			N/A
12/13/2018	AUDSEK	9:30:00 AM	6.56	6.562			N/A
12/13/2018	AUDSEK	11:30:00 AM	6.5469	6.5486			N/A
12/13/2018	AUDSEK	1:30:00 PM	6.5546	6.5577			N/A
12/13/2018	AUDSEK	3:30:00 PM	6.5503	6.5531			N/A
12/13/2018	AUDSGD	9:30:00 AM	0.9925	0.9928			N/A
12/13/2018	AUDSGD	11:30:00 AM	0.9913	0.9914			N/A
12/13/2018	AUDSGD	1:30:00 PM	0.9912	0.9916			N/A
12/13/2018	AUDSGD	3:30:00 PM	0.9909	0.9912			N/A
12/13/2018	AUDUSD	9:30:00 AM	0.72422	0.72424			N/A
12/13/2018	AUDUSD	11:30:00 AM	0.72344	0.72343	1000	1000	N/A
12/13/2018	AUDUSD	1:30:00 PM	0.72329	0.72339			N/A
12/13/2018	AUDUSD	3:30:00 PM	0.72312	0.72314			N/A
12/13/2018	AUDZAR	9:30:00 AM	10.1866	10.1993			N/A
12/13/2018	AUDZAR	11:30:00 AM	10.2066	10.2163			N/A
12/13/2018	AUDZAR	1:30:00 PM	10.2165	10.2319			N/A
12/13/2018	AUDZAR	3:30:00 PM	10.2262	10.2405			N/A
12/13/2018	CADCHF	9:30:00 AM	0.74345	0.74418			N/A
12/13/2018	CADCHF	11:30:00 AM	0.74282	0.74353			N/A
12/13/2018	CADCHF	1:30:00 PM	0.74206	0.74281			N/A
12/13/2018	CADCHF	3:30:00 PM	0.74178	0.74245			N/A
12/13/2018	CADCZK	9:30:00 AM	17.005	17.021			N/A
12/13/2018	CADCZK	11:30:00 AM	17.003	17.02			N/A
12/13/2018	CADCZK	1:30:00 PM					N/A
12/13/2018	CADCZK	3:30:00 PM	16.971	16.984			N/A
12/13/2018	CADDKK	9:30:00 AM	4.914	4.918			N/A
12/13/2018	CADDKK	11:30:00 AM					N/A
12/13/2018	CADDKK	1:30:00 PM					N/A
12/13/2018	CADDKK	3:30:00 PM	4.907	4.911			N/A
12/13/2018	CADHKD	9:30:00 AM	5.8467	5.8506			N/A
12/13/2018	CADHKD	11:30:00 AM	5.8488	5.8528			N/A
12/13/2018	CADHKD	1:30:00 PM	5.8451	5.8491			N/A
12/13/2018	CADHKD	3:30:00 PM	5.8411	5.845			N/A
12/13/2018	CADHUF	9:30:00 AM	212.46	212.62			N/A
12/13/2018	CADHUF	11:30:00 AM	212.64	212.81			N/A
12/13/2018	CADHUF	1:30:00 PM	212.59	212.72			N/A
12/13/2018	CADHUF	3:30:00 PM	212.29	212.43			N/A
12/13/2018	CADJPY	9:30:00 AM	84.919	84.994			N/A
12/13/2018	CADJPY	11:30:00 AM	84.988	85.056			N/A
12/13/2018	CADJPY	1:30:00 PM	84.875	84.948			N/A
12/13/2018	CADJPY	3:30:00 PM	84.847	84.914			N/A
12/13/2018	CADMXN	9:30:00 AM	15.0299	15.0424			N/A
12/13/2018	CADMXN	11:30:00 AM	15.0479	15.0574			N/A
12/13/2018	CADMXN	1:30:00 PM	15.0784	15.0911			N/A
12/13/2018	CADMXN	3:30:00 PM	15.0365	15.0484			N/A
12/13/2018	CADNOK	9:30:00 AM	6.4076	6.4126			N/A

12/13/2018	CADNOK	11:30:00 AM	6.3945	6.399			N/A
12/13/2018	CADNOK	1:30:00 PM	6.3961	6.4			N/A
12/13/2018	CADNOK	3:30:00 PM	6.4035	6.4077			N/A
12/13/2018	CADPLN	9:30:00 AM	2.8235	2.8251			N/A
12/13/2018	CADPLN	11:30:00 AM	2.8264	2.8282			N/A
12/13/2018	CADPLN	1:30:00 PM	2.8239	2.8256			N/A
12/13/2018	CADPLN	3:30:00 PM	2.8207	2.8225			N/A
12/13/2018	CADSEK	9:30:00 AM	6.7832	6.7871			N/A
12/13/2018	CADSEK	11:30:00 AM	6.7787	6.7818			N/A
12/13/2018	CADSEK	1:30:00 PM	6.7822	6.786			N/A
12/13/2018	CADSEK	3:30:00 PM	6.7752	6.7791			N/A
12/13/2018	CADSGD	9:30:00 AM	1.0265	1.0268			N/A
12/13/2018	CADSGD	11:30:00 AM	1.0266	1.0269			N/A
12/13/2018	CADSGD	1:30:00 PM					N/A
12/13/2018	CADSGD	3:30:00 PM	1.0254	1.0257			N/A
12/13/2018	CADZAR	9:30:00 AM	10.5363	10.5514			N/A
12/13/2018	CADZAR	11:30:00 AM	10.5714	10.5834			N/A
12/13/2018	CADZAR	1:30:00 PM	10.5748	10.5906			N/A
12/13/2018	CADZAR	3:30:00 PM	10.5809	10.5974			N/A
12/13/2018	CHFCZK	9:30:00 AM	22.866	22.882			N/A
12/13/2018	CHFCZK	11:30:00 AM	22.887	22.902			N/A
12/13/2018	CHFCZK	1:30:00 PM	22.881	22.898			N/A
12/13/2018	CHFCZK	3:30:00 PM	22.873	22.886			N/A
12/13/2018	CHFDKK	9:30:00 AM	6.606	6.609			N/A
12/13/2018	CHFDKK	11:30:00 AM	6.612	6.615			N/A
12/13/2018	CHFDKK	1:30:00 PM	6.612	6.616			N/A
12/13/2018	CHFDKK	3:30:00 PM	6.611	6.614			N/A
12/13/2018	CHFHKD	9:30:00 AM	7.8621	7.8652			N/A
12/13/2018	CHFHKD	11:30:00 AM	7.872	7.8751			N/A
12/13/2018	CHFHKD	1:30:00 PM	7.8743	7.8783			N/A
12/13/2018	CHFHKD	3:30:00 PM	7.8724	7.8754			N/A
12/13/2018	CHFHUF	9:30:00 AM	285.56	285.95			N/A
12/13/2018	CHFHUF	11:30:00 AM	286.1	286.47			N/A
12/13/2018	CHFHUF	1:30:00 PM	286.29	286.56			N/A
12/13/2018	CHFHUF	3:30:00 PM	286	286.36			N/A
12/13/2018	CHFJPY	9:30:00 AM	114.186	114.248			N/A
12/13/2018	CHFJPY	11:30:00 AM	114.375	114.441			N/A
12/13/2018	CHFJPY	1:30:00 PM	114.336	114.404			N/A
12/13/2018	CHFJPY	3:30:00 PM	114.344	114.405			N/A
12/13/2018	CHFMXN	9:30:00 AM	20.2085	20.224			N/A
12/13/2018	CHFMXN	11:30:00 AM	20.2499	20.2624			N/A
12/13/2018	CHFMXN	1:30:00 PM	20.3118	20.328			N/A
12/13/2018	CHFMXN	3:30:00 PM	20.2633	20.2787			N/A
12/13/2018	CHFNOK	9:30:00 AM	8.6154	8.6224			N/A
12/13/2018	CHFNOK	11:30:00 AM	8.6051	8.6114			N/A
12/13/2018	CHFNOK	1:30:00 PM	8.6159	8.6216			N/A
12/13/2018	CHFNOK	3:30:00 PM	8.6295	8.6352			N/A
12/13/2018	CHFPLN	9:30:00 AM	3.7953	3.7982			N/A
12/13/2018	CHFPLN	11:30:00 AM	3.8031	3.8054			N/A
12/13/2018	CHFPLN	1:30:00 PM	3.8043	3.8067			N/A

12/13/2018	CHFPLN	3:30:00 PM	3.8007	3.8035			N/A
12/13/2018	CHFSEK	9:30:00 AM	9.1209	9.1243			N/A
12/13/2018	CHFSEK	11:30:00 AM	9.1229	9.126			N/A
12/13/2018	CHFSEK	1:30:00 PM	9.1361	9.1408			N/A
12/13/2018	CHFSEK	3:30:00 PM	9.1306	9.1352			N/A
12/13/2018	CHFSGD	9:30:00 AM	1.38	1.3804			N/A
12/13/2018	CHFSGD	11:30:00 AM	1.3812	1.3816			N/A
12/13/2018	CHFSGD	1:30:00 PM	1.3818	1.3822			N/A
12/13/2018	CHFSGD	3:30:00 PM	1.3813	1.3817			N/A
12/13/2018	CHFZAR	9:30:00 AM	14.1711	14.1834			N/A
12/13/2018	CHFZAR	11:30:00 AM	14.2303	14.2385			N/A
12/13/2018	CHFZAR	1:30:00 PM	14.2489	14.2617			N/A
12/13/2018	CHFZAR	3:30:00 PM	14.2631	14.276			N/A
12/13/2018	CZKJPY	9:30:00 AM					N/A
12/13/2018	CZKJPY	11:30:00 AM					N/A
12/13/2018	CZKJPY	1:30:00 PM					N/A
12/13/2018	CZKJPY	3:30:00 PM	4.998	5.002			N/A
12/13/2018	DKKJPY	9:30:00 AM					N/A
12/13/2018	DKKJPY	11:30:00 AM					N/A
12/13/2018	DKKJPY	1:30:00 PM					N/A
12/13/2018	DKKJPY	3:30:00 PM	17.29	17.31			N/A
12/13/2018	EURAUD	9:30:00 AM	1.57	1.57029			N/A
12/13/2018	EURAUD	11:30:00 AM	1.57199	1.5723			N/A
12/13/2018	EURAUD	1:30:00 PM	1.57239	1.57275			N/A
12/13/2018	EURAUD	3:30:00 PM	1.57297	1.57311			N/A
12/13/2018	EURCAD	9:30:00 AM	1.51839	1.5192			N/A
12/13/2018	EURCAD	11:30:00 AM	1.5183	1.51901			N/A
12/13/2018	EURCAD	1:30:00 PM	1.51974	1.52059			N/A
12/13/2018	EURCAD	3:30:00 PM	1.52088	1.52134			N/A
12/13/2018	EURCHF	9:30:00 AM	1.12965	1.12977			N/A
12/13/2018	EURCHF	11:30:00 AM	1.12864	1.12858			N/A
12/13/2018	EURCHF	1:30:00 PM	1.12859	1.1287			N/A
12/13/2018	EURCHF	3:30:00 PM	1.12889	1.12881			N/A
12/13/2018	EURCZK	9:30:00 AM	25.817	25.855			N/A
12/13/2018	EURCZK	11:30:00 AM					N/A
12/13/2018	EURCZK	1:30:00 PM					N/A
12/13/2018	EURCZK	3:30:00 PM	25.802	25.841			N/A
12/13/2018	EURDKK	9:30:00 AM	7.4635	7.4642			N/A
12/13/2018	EURDKK	11:30:00 AM	7.4628	7.4641			N/A
12/13/2018	EURDKK	1:30:00 PM	7.4632	7.4643			N/A
12/13/2018	EURDKK	3:30:00 PM	7.4636	7.4648			N/A
12/13/2018	EURGBP	9:30:00 AM	0.90038	0.90044			N/A
12/13/2018	EURGBP	11:30:00 AM	0.89843	0.89843			N/A
12/13/2018	EURGBP	1:30:00 PM	0.89928	0.89942			N/A
12/13/2018	EURGBP	3:30:00 PM	0.89755	0.8975			N/A
12/13/2018	EURHKD	9:30:00 AM	8.8807	8.8851			N/A
12/13/2018	EURHKD	11:30:00 AM	8.8839	8.8865			N/A
12/13/2018	EURHKD	1:30:00 PM	8.8855	8.8907			N/A
12/13/2018	EURHKD	3:30:00 PM	8.8858	8.8879			N/A
12/13/2018	EURHUF	9:30:00 AM	322.5	323.2			N/A

12/13/2018	EURHUF	11:30:00 AM	322.74	323.47			N/A
12/13/2018	EURHUF	1:30:00 PM	323	323.74			N/A
12/13/2018	EURHUF	3:30:00 PM	322.72	323.43			N/A
12/13/2018	EURJPY	9:30:00 AM	129.034	129.034			N/A
12/13/2018	EURJPY	11:30:00 AM	129.128	129.11			N/A
12/13/2018	EURJPY	1:30:00 PM	129.08	129.082			N/A
12/13/2018	EURJPY	3:30:00 PM	129.126	129.103			N/A
12/13/2018	EURMXN	9:30:00 AM	22.8312	22.8497			N/A
12/13/2018	EURMXN	11:30:00 AM	22.8527	22.869			N/A
12/13/2018	EURMXN	1:30:00 PM	22.9262	22.9434			N/A
12/13/2018	EURMXN	3:30:00 PM	22.8761	22.8903			N/A
12/13/2018	EURNOK	9:30:00 AM	9.7313	9.7423			N/A
12/13/2018	EURNOK	11:30:00 AM	9.7098	9.7213			N/A
12/13/2018	EURNOK	1:30:00 PM	9.7227	9.7327			N/A
12/13/2018	EURNOK	3:30:00 PM	9.7402	9.7485			N/A
12/13/2018	EURNZD	9:30:00 AM	1.65372	1.65437			N/A
12/13/2018	EURNZD	11:30:00 AM	1.6558	1.65645			N/A
12/13/2018	EURNZD	1:30:00 PM	1.65664	1.65741			N/A
12/13/2018	EURNZD	3:30:00 PM	1.65634	1.6569			N/A
12/13/2018	EURPLN	9:30:00 AM	4.2876	4.2906			N/A
12/13/2018	EURPLN	11:30:00 AM	4.2921	4.2951			N/A
12/13/2018	EURPLN	1:30:00 PM	4.2938	4.2963			N/A
12/13/2018	EURPLN	3:30:00 PM	4.2903	4.2935			N/A
12/13/2018	EURRUR	9:30:00 AM					N/A
12/13/2018	EURRUR	11:30:00 AM	75.138	75.565			N/A
12/13/2018	EURRUR	1:30:00 PM	75.242	75.673			N/A
12/13/2018	EURRUR	3:30:00 PM	75.154	75.58			N/A
12/13/2018	EURSEK	9:30:00 AM	10.3045	10.3078			N/A
12/13/2018	EURSEK	11:30:00 AM	10.2963	10.2988			N/A
12/13/2018	EURSEK	1:30:00 PM	10.3116	10.3168			N/A
12/13/2018	EURSEK	3:30:00 PM	10.3082	10.3115			N/A
12/13/2018	EURSGD	9:30:00 AM	1.5588	1.5596			N/A
12/13/2018	EURSGD	11:30:00 AM	1.5587	1.5593			N/A
12/13/2018	EURSGD	1:30:00 PM	1.5593	1.5601			N/A
12/13/2018	EURSGD	3:30:00 PM	1.5592	1.5597			N/A
12/13/2018	EURUSD	9:30:00 AM	1.13748	1.13749			N/A
12/13/2018	EURUSD	11:30:00 AM	1.13767	1.13747	300	500	N/A
12/13/2018	EURUSD	1:30:00 PM	1.13773	1.13783			N/A
12/13/2018	EURUSD	3:30:00 PM	1.1379	1.1376		100	N/A
12/13/2018	EURZAR	9:30:00 AM	16.0139	16.0272			N/A
12/13/2018	EURZAR	11:30:00 AM	16.0629	16.0739			N/A
12/13/2018	EURZAR	1:30:00 PM	16.0863	16.1022			N/A
12/13/2018	EURZAR	3:30:00 PM	16.1054	16.123			N/A
12/13/2018	GBPAUD	9:30:00 AM	1.74424	1.74486			N/A
12/13/2018	GBPAUD	11:30:00 AM	1.75018	1.75075			N/A
12/13/2018	GBPAUD	1:30:00 PM	1.74894	1.74965			N/A
12/13/2018	GBPAUD	3:30:00 PM	1.75303	1.75345			N/A
12/13/2018	GBPCAD	9:30:00 AM	1.68647	1.68715			N/A
12/13/2018	GBPCAD	11:30:00 AM	1.68992	1.69072			N/A
12/13/2018	GBPCAD	1:30:00 PM	1.68997	1.69073			N/A

12/13/2018	GBPCAD	3:30:00 PM	1.69466	1.69494			N/A
12/13/2018	GBPCHF	9:30:00 AM	1.25454	1.2549			N/A
12/13/2018	GBPCHF	11:30:00 AM	1.25601	1.25635			N/A
12/13/2018	GBPCHF	1:30:00 PM	1.25474	1.2552			N/A
12/13/2018	GBPCHF	3:30:00 PM	1.25768	1.25784			N/A
12/13/2018	GBPCZK	9:30:00 AM	28.682	28.704			N/A
12/13/2018	GBPCZK	11:30:00 AM	28.743	28.763			N/A
12/13/2018	GBPCZK	1:30:00 PM	28.708	28.731			N/A
12/13/2018	GBPCZK	3:30:00 PM	28.761	28.777			N/A
12/13/2018	GBPDKK	9:30:00 AM	8.285	8.297			N/A
12/13/2018	GBPDKK	11:30:00 AM	8.303	8.313			N/A
12/13/2018	GBPDKK	1:30:00 PM	8.295	8.306			N/A
12/13/2018	GBPDKK	3:30:00 PM	8.313	8.322			N/A
12/13/2018	GBPHKD	9:30:00 AM	9.862	9.8652			N/A
12/13/2018	GBPHKD	11:30:00 AM	9.8856	9.8904			N/A
12/13/2018	GBPHKD	1:30:00 PM	9.8787	9.8843			N/A
12/13/2018	GBPHKD	3:30:00 PM	9.8992	9.9012			N/A
12/13/2018	GBPHUF	9:30:00 AM	358.21	358.67			N/A
12/13/2018	GBPHUF	11:30:00 AM	359.33	359.75			N/A
12/13/2018	GBPHUF	1:30:00 PM	359.21	359.51			N/A
12/13/2018	GBPHUF	3:30:00 PM	359.63	360.05			N/A
12/13/2018	GBPJPY	9:30:00 AM	143.293	143.319			N/A
12/13/2018	GBPJPY	11:30:00 AM	143.699	143.723			N/A
12/13/2018	GBPJPY	1:30:00 PM	143.509	143.543			N/A
12/13/2018	GBPJPY	3:30:00 PM	143.849	143.863			N/A
12/13/2018	GBPMXN	9:30:00 AM	25.3518	25.3649			N/A
12/13/2018	GBPMXN	11:30:00 AM	25.4338	25.4438			N/A
12/13/2018	GBPMXN	1:30:00 PM	25.4866	25.5021			N/A
12/13/2018	GBPMXN	3:30:00 PM	25.4846	25.4912			N/A
12/13/2018	GBPNOK	9:30:00 AM	10.809	10.8185			N/A
12/13/2018	GBPNOK	11:30:00 AM	10.809	10.8189			N/A
12/13/2018	GBPNOK	1:30:00 PM	10.8121	10.8209			N/A
12/13/2018	GBPNOK	3:30:00 PM	10.8536	10.8617			N/A
12/13/2018	GBPNZD	9:30:00 AM	1.83675	1.8374			N/A
12/13/2018	GBPNZD	11:30:00 AM	1.84299	1.84355			N/A
12/13/2018	GBPNZD	1:30:00 PM	1.84209	1.84293			N/A
12/13/2018	GBPNZD	3:30:00 PM	1.84562	1.84589			N/A
12/13/2018	GBPPLN	9:30:00 AM	4.7629	4.7646			N/A
12/13/2018	GBPPLN	11:30:00 AM	4.7787	4.7796			N/A
12/13/2018	GBPPLN	1:30:00 PM	4.7751	4.7766			N/A
12/13/2018	GBPPLN	3:30:00 PM	4.7812	4.7825			N/A
12/13/2018	GBPSEK	9:30:00 AM	11.4427	11.4501			N/A
12/13/2018	GBPSEK	11:30:00 AM	11.4594	11.4653			N/A
12/13/2018	GBPSEK	1:30:00 PM	11.4637	11.4738			N/A
12/13/2018	GBPSEK	3:30:00 PM	11.4827	11.4898			N/A
12/13/2018	GBPSGD	9:30:00 AM	1.7314	1.732			N/A
12/13/2018	GBPSGD	11:30:00 AM	1.735	1.7356			N/A
12/13/2018	GBPSGD	1:30:00 PM	1.7339	1.7347			N/A
12/13/2018	GBPSGD	3:30:00 PM	1.7374	1.7377			N/A
12/13/2018	GBPUSD	9:30:00 AM	1.26353	1.26341			N/A

12/13/2018	GBPUSD	11:30:00 AM	1.26638	1.26623		500	N/A
12/13/2018	GBPUSD	1:30:00 PM	1.26526	1.26533			N/A
12/13/2018	GBPUSD	3:30:00 PM	1.26803	1.26767			N/A
12/13/2018	GBPZAR	9:30:00 AM	17.7803	17.8049			N/A
12/13/2018	GBPZAR	11:30:00 AM	17.8762	17.895			N/A
12/13/2018	GBPZAR	1:30:00 PM	17.8817	17.9043			N/A
12/13/2018	GBPZAR	3:30:00 PM	17.9406	17.9676			N/A
12/13/2018	GOLD	9:30:00 AM	1245.93	1246.32			N/A
12/13/2018	GOLD	11:30:00 AM	1244.97	1244.98			N/A
12/13/2018	GOLD	1:30:00 PM	1242.21	1242.56			N/A
12/13/2018	GOLD	3:30:00 PM	1243.11	1242.97			N/A
12/13/2018	HKDJPY	9:30:00 AM					N/A
12/13/2018	HKDJPY	11:30:00 AM					N/A
12/13/2018	HKDJPY	1:30:00 PM					N/A
12/13/2018	HKDJPY	3:30:00 PM	14.53	14.54			N/A
12/13/2018	HUFJPY	9:30:00 AM	0.3998	0.4001			N/A
12/13/2018	HUFJPY	11:30:00 AM	0.3998	0.4002			N/A
12/13/2018	HUFJPY	1:30:00 PM	0.3995	0.3999			N/A
12/13/2018	HUFJPY	3:30:00 PM					N/A
12/13/2018	MXNJPY	9:30:00 AM	5.64	5.66			N/A
12/13/2018	MXNJPY	11:30:00 AM	5.64	5.66			N/A
12/13/2018	MXNJPY	1:30:00 PM	5.63	5.64			N/A
12/13/2018	MXNJPY	3:30:00 PM					N/A
12/13/2018	NOKJPY	9:30:00 AM					N/A
12/13/2018	NOKJPY	11:30:00 AM	13.28	13.31			N/A
12/13/2018	NOKJPY	1:30:00 PM	13.26	13.29			N/A
12/13/2018	NOKJPY	3:30:00 PM	13.24	13.27			N/A
12/13/2018	NZDCAD	9:30:00 AM	0.91793	0.9185			N/A
12/13/2018	NZDCAD	11:30:00 AM	0.91669	0.91735			N/A
12/13/2018	NZDCAD	1:30:00 PM	0.91706	0.91774			N/A
12/13/2018	NZDCAD	3:30:00 PM	0.918	0.91854	1000	1000	N/A
12/13/2018	NZDCHF	9:30:00 AM	0.68266	0.68331			N/A
12/13/2018	NZDCHF	11:30:00 AM	0.68118	0.68184			N/A
12/13/2018	NZDCHF	1:30:00 PM	0.68078	0.68145			N/A
12/13/2018	NZDCHF	3:30:00 PM	0.68113	0.68177			N/A
12/13/2018	NZDCZK	9:30:00 AM	15.613	15.623			N/A
12/13/2018	NZDCZK	11:30:00 AM	15.591	15.603			N/A
12/13/2018	NZDCZK	1:30:00 PM	15.58	15.592			N/A
12/13/2018	NZDCZK	3:30:00 PM	15.58	15.591			N/A
12/13/2018	NZDDKK	9:30:00 AM					N/A
12/13/2018	NZDDKK	11:30:00 AM	4.505	4.508			N/A
12/13/2018	NZDDKK	1:30:00 PM	4.503	4.506			N/A
12/13/2018	NZDDKK	3:30:00 PM					N/A
12/13/2018	NZDHKD	9:30:00 AM	5.3674	5.3697			N/A
12/13/2018	NZDHKD	11:30:00 AM	5.3624	5.3653			N/A
12/13/2018	NZDHKD	1:30:00 PM	5.3614	5.3642			N/A
12/13/2018	NZDHKD	3:30:00 PM	5.3622	5.3646			N/A
12/13/2018	NZDHUF	9:30:00 AM	194.96	195.25			N/A
12/13/2018	NZDHUF	11:30:00 AM	194.88	195.17			N/A
12/13/2018	NZDHUF	1:30:00 PM	194.9	195.15			N/A

12/13/2018	NZDHUF	3:30:00 PM	194.81	195.09			N/A
12/13/2018	NZDJPY	9:30:00 AM	77.98	78.038			N/A
12/13/2018	NZDJPY	11:30:00 AM	77.937	78.001			N/A
12/13/2018	NZDJPY	1:30:00 PM	77.867	77.932			N/A
12/13/2018	NZDJPY	3:30:00 PM	77.907	77.971			N/A
12/13/2018	NZDMXN	9:30:00 AM	13.8003	13.8036			N/A
12/13/2018	NZDMXN	11:30:00 AM	13.7966	13.8005			N/A
12/13/2018	NZDMXN	1:30:00 PM	13.8321	13.8382			N/A
12/13/2018	NZDMXN	3:30:00 PM	13.8055	13.8106			N/A
12/13/2018	NZDNOK	9:30:00 AM	5.8829	5.8853			N/A
12/13/2018	NZDNOK	11:30:00 AM	5.8621	5.8652			N/A
12/13/2018	NZDNOK	1:30:00 PM	5.8665	5.8692			N/A
12/13/2018	NZDNOK	3:30:00 PM	5.8784	5.8811			N/A
12/13/2018	NZDPLN	9:30:00 AM	2.592	2.5935			N/A
12/13/2018	NZDPLN	11:30:00 AM	2.5913	2.5927			N/A
12/13/2018	NZDPLN	1:30:00 PM	2.59	2.5913			N/A
12/13/2018	NZDPLN	3:30:00 PM	2.589	2.5902			N/A
12/13/2018	NZDSEK	9:30:00 AM	6.2256	6.2309			N/A
12/13/2018	NZDSEK	11:30:00 AM	6.2127	6.2188			N/A
12/13/2018	NZDSEK	1:30:00 PM	6.2185	6.2251			N/A
12/13/2018	NZDSEK	3:30:00 PM	6.2177	6.2242			N/A
12/13/2018	NZDSGD	9:30:00 AM	0.9424	0.9429			N/A
12/13/2018	NZDSGD	11:30:00 AM	0.9412	0.9417			N/A
12/13/2018	NZDSGD	1:30:00 PM	0.941	0.9416			N/A
12/13/2018	NZDSGD	3:30:00 PM	0.9411	0.9417			N/A
12/13/2018	NZDUSD	9:30:00 AM	0.68772	0.68771			N/A
12/13/2018	NZDUSD	11:30:00 AM	0.68696	0.68698			N/A
12/13/2018	NZDUSD	1:30:00 PM	0.68662	0.68675			N/A
12/13/2018	NZDUSD	3:30:00 PM	0.68688	0.68686			N/A
12/13/2018	NZDZAR	9:30:00 AM	9.6716	9.6873			N/A
12/13/2018	NZDZAR	11:30:00 AM	9.6896	9.7027			N/A
12/13/2018	NZDZAR	1:30:00 PM	9.6973	9.714			N/A
12/13/2018	NZDZAR	3:30:00 PM	9.7121	9.7284			N/A
12/13/2018	SEKJPY	9:30:00 AM	12.52	12.53			N/A
12/13/2018	SEKJPY	11:30:00 AM	12.54	12.55			N/A
12/13/2018	SEKJPY	1:30:00 PM	12.52	12.53			N/A
12/13/2018	SEKJPY	3:30:00 PM	12.53	12.53			N/A
12/13/2018	SGDJPY	9:30:00 AM	82.73	82.75			N/A
12/13/2018	SGDJPY	11:30:00 AM	82.79	82.82			N/A
12/13/2018	SGDJPY	1:30:00 PM	82.73	82.75			N/A
12/13/2018	SGDJPY	3:30:00 PM	82.77	82.79			N/A
12/13/2018	SILVER	9:30:00 AM	14.57	14.95			N/A
12/13/2018	SILVER	11:30:00 AM	14.56	14.93			N/A
12/13/2018	SILVER	1:30:00 PM	14.52	14.9			N/A
12/13/2018	SILVER	3:30:00 PM	14.54	14.91			N/A
12/13/2018	USDCAD	9:30:00 AM	1.3351	1.33519			N/A
12/13/2018	USDCAD	11:30:00 AM	1.33494	1.33489			N/A
12/13/2018	USDCAD	1:30:00 PM	1.33595	1.33607			N/A
12/13/2018	USDCAD	3:30:00 PM	1.3368	1.33687			N/A
12/13/2018	USDCHF	9:30:00 AM	0.99303	0.99306			N/A

12/13/2018	USDCHF	11:30:00 AM	0.99195	0.99198			N/A
12/13/2018	USDCHF	1:30:00 PM	0.99175	0.99189			N/A
12/13/2018	USDCHF	3:30:00 PM	0.99207	0.99203			N/A
12/13/2018	USDCZK	9:30:00 AM	22.705	22.725			N/A
12/13/2018	USDCZK	11:30:00 AM	22.701	22.719			N/A
12/13/2018	USDCZK	1:30:00 PM	22.691	22.714			N/A
12/13/2018	USDCZK	3:30:00 PM	22.69	22.706			N/A
12/13/2018	USDDKK	9:30:00 AM	6.5608	6.5637			N/A
12/13/2018	USDDKK	11:30:00 AM	6.56	6.5624			N/A
12/13/2018	USDDKK	1:30:00 PM	6.5585	6.5622			N/A
12/13/2018	USDDKK	3:30:00 PM	6.5599	6.5619			N/A
12/13/2018	USDHKD	9:30:00 AM	7.808	7.8084			N/A
12/13/2018	USDHKD	11:30:00 AM	7.8094	7.8098			N/A
12/13/2018	USDHKD	1:30:00 PM	7.8105	7.8109			N/A
12/13/2018	USDHKD	3:30:00 PM	7.8095	7.8099			N/A
12/13/2018	USDHUF	9:30:00 AM	283.57	284.02			N/A
12/13/2018	USDHUF	11:30:00 AM	283.8	284.19			N/A
12/13/2018	USDHUF	1:30:00 PM	283.93	284.39			N/A
12/13/2018	USDHUF	3:30:00 PM	283.72	284.1			N/A
12/13/2018	USDJPY	9:30:00 AM	113.417	113.425			N/A
12/13/2018	USDJPY	11:30:00 AM	113.483	113.494			N/A
12/13/2018	USDJPY	1:30:00 PM	113.428	113.439			N/A
12/13/2018	USDJPY	3:30:00 PM	113.465	113.464			N/A
12/13/2018	USDMXN	9:30:00 AM	20.073	20.08			N/A
12/13/2018	USDMXN	11:30:00 AM	20.094	20.094			N/A
12/13/2018	USDMXN	1:30:00 PM	20.152	20.158			N/A
12/13/2018	USDMXN	3:30:00 PM	20.108	20.114			N/A
12/13/2018	USDNOK	9:30:00 AM	8.5553	8.5628			N/A
12/13/2018	USDNOK	11:30:00 AM	8.5367	8.5426			N/A
12/13/2018	USDNOK	1:30:00 PM	8.5454	8.5522			N/A
12/13/2018	USDNOK	3:30:00 PM	8.5608	8.5678			N/A
12/13/2018	USDPLN	9:30:00 AM	3.7698	3.7707			N/A
12/13/2018	USDPLN	11:30:00 AM	3.7738	3.774			N/A
12/13/2018	USDPLN	1:30:00 PM	3.7737	3.7749			N/A
12/13/2018	USDPLN	3:30:00 PM	3.7715	3.7722			N/A
12/13/2018	USDRUR	9:30:00 AM					N/A
12/13/2018	USDRUR	11:30:00 AM	66.126	66.507			N/A
12/13/2018	USDRUR	1:30:00 PM	66.199	66.586			N/A
12/13/2018	USDRUR	3:30:00 PM	66.118	66.511			N/A
12/13/2018	USDSEK	9:30:00 AM	9.0568	9.0604			N/A
12/13/2018	USDSEK	11:30:00 AM	9.0505	9.0521			N/A
12/13/2018	USDSEK	1:30:00 PM	9.0612	9.0657			N/A
12/13/2018	USDSEK	3:30:00 PM	9.0585	9.0609			N/A
12/13/2018	USDSGD	9:30:00 AM	1.3703	1.3707			N/A
12/13/2018	USDSGD	11:30:00 AM	1.37	1.3705			N/A
12/13/2018	USDSGD	1:30:00 PM	1.3705	1.3709			N/A
12/13/2018	USDSGD	3:30:00 PM	1.3704	1.3706			N/A
12/13/2018	USDZAR	9:30:00 AM	14.0743	14.0867			N/A
12/13/2018	USDZAR	11:30:00 AM	14.1188	14.1271			N/A
12/13/2018	USDZAR	1:30:00 PM	14.1348	14.1497			N/A

12/13/2018	USDZAR	3:30:00 PM	14.152	14.1669			N/A
12/13/2018	XAUUSD	9:30:00 AM	1245.91	1246.18			N/A
12/13/2018	XAUUSD	11:30:00 AM	1244.92	1244.9			N/A
12/13/2018	XAUUSD	1:30:00 PM	1242.23	1242.49			N/A
12/13/2018	XAUUSD	3:30:00 PM	1243.11	1242.9			N/A
12/13/2018	ZARJPY	9:30:00 AM	8.04	8.05			N/A
12/13/2018	ZARJPY	11:30:00 AM	8.02	8.04			N/A
12/13/2018	ZARJPY	1:30:00 PM	8	8.02			N/A
12/13/2018	ZARJPY	3:30:00 PM	8	8.01			N/A
12/14/2018	#AA	9:30:00 AM					N/A
12/14/2018	#AA	11:30:00 AM					N/A
12/14/2018	#AA	1:30:00 PM					N/A
12/14/2018	#AA	3:30:00 PM					N/A
12/14/2018	#AABA	9:30:00 AM					N/A
12/14/2018	#AABA	11:30:00 AM					N/A
12/14/2018	#AABA	1:30:00 PM					N/A
12/14/2018	#AABA	3:30:00 PM					N/A
12/14/2018	#AAL	9:30:00 AM					N/A
12/14/2018	#AAL	11:30:00 AM					N/A
12/14/2018	#AAL	1:30:00 PM					N/A
12/14/2018	#AAL	3:30:00 PM					N/A
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12/14/2018	#AAPL	1:30:00 PM					N/A
12/14/2018	#AAPL	3:30:00 PM					N/A
12/14/2018	#ADBE	9:30:00 AM					N/A
12/14/2018	#ADBE	11:30:00 AM					N/A
12/14/2018	#ADBE	1:30:00 PM					N/A
12/14/2018	#ADBE	3:30:00 PM					N/A
12/14/2018	#AIG	9:30:00 AM					N/A
12/14/2018	#AIG	11:30:00 AM					N/A
12/14/2018	#AIG	1:30:00 PM					N/A
12/14/2018	#AIG	3:30:00 PM					N/A
12/14/2018	#AMD	9:30:00 AM					N/A
12/14/2018	#AMD	11:30:00 AM					N/A
12/14/2018	#AMD	1:30:00 PM					N/A
12/14/2018	#AMD	3:30:00 PM					N/A
12/14/2018	#AMZN	9:30:00 AM					N/A
12/14/2018	#AMZN	11:30:00 AM					N/A
12/14/2018	#AMZN	1:30:00 PM					N/A
12/14/2018	#AMZN	3:30:00 PM					N/A
12/14/2018	#AXP	9:30:00 AM					N/A
12/14/2018	#AXP	11:30:00 AM					N/A
12/14/2018	#AXP	1:30:00 PM					N/A
12/14/2018	#AXP	3:30:00 PM					N/A
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12/14/2018	#BA	1:30:00 PM					N/A
12/14/2018	#BA	3:30:00 PM					N/A
12/14/2018	#BABA	9:30:00 AM					N/A

12/14/2018	#BABA	11:30:00 AM					N/A
12/14/2018	#BABA	1:30:00 PM					N/A
12/14/2018	#BABA	3:30:00 PM					N/A
12/14/2018	#BAC	9:30:00 AM					N/A
12/14/2018	#BAC	11:30:00 AM					N/A
12/14/2018	#BAC	1:30:00 PM					N/A
12/14/2018	#BAC	3:30:00 PM					N/A
12/14/2018	#BARC	9:30:00 AM					N/A
12/14/2018	#BARC	11:30:00 AM					N/A
12/14/2018	#BARC	1:30:00 PM					N/A
12/14/2018	#BARC	3:30:00 PM					N/A
12/14/2018	#BHP	9:30:00 AM					N/A
12/14/2018	#BHP	11:30:00 AM					N/A
12/14/2018	#BHP	1:30:00 PM					N/A
12/14/2018	#BHP	3:30:00 PM					N/A
12/14/2018	#BIDU	9:30:00 AM					N/A
12/14/2018	#BIDU	11:30:00 AM					N/A
12/14/2018	#BIDU	1:30:00 PM					N/A
12/14/2018	#BIDU	3:30:00 PM					N/A
12/14/2018	#BK	9:30:00 AM					N/A
12/14/2018	#BK	11:30:00 AM					N/A
12/14/2018	#BK	1:30:00 PM					N/A
12/14/2018	#BK	3:30:00 PM					N/A
12/14/2018	#BLT	9:30:00 AM					N/A
12/14/2018	#BLT	11:30:00 AM					N/A
12/14/2018	#BLT	1:30:00 PM					N/A
12/14/2018	#BLT	3:30:00 PM					N/A
12/14/2018	#BP	9:30:00 AM					N/A
12/14/2018	#BP	11:30:00 AM					N/A
12/14/2018	#BP	1:30:00 PM					N/A
12/14/2018	#BP	3:30:00 PM					N/A
12/14/2018	#BTA	9:30:00 AM					N/A
12/14/2018	#BTA	11:30:00 AM					N/A
12/14/2018	#BTA	1:30:00 PM					N/A
12/14/2018	#BTA	3:30:00 PM					N/A
12/14/2018	#C	9:30:00 AM					N/A
12/14/2018	#C	11:30:00 AM					N/A
12/14/2018	#C	1:30:00 PM					N/A
12/14/2018	#C	3:30:00 PM					N/A
12/14/2018	#CAT	9:30:00 AM					N/A
12/14/2018	#CAT	11:30:00 AM					N/A
12/14/2018	#CAT	1:30:00 PM					N/A
12/14/2018	#CAT	3:30:00 PM					N/A
12/14/2018	#CHL	9:30:00 AM					N/A
12/14/2018	#CHL	11:30:00 AM					N/A
12/14/2018	#CHL	1:30:00 PM					N/A
12/14/2018	#CHL	3:30:00 PM					N/A
12/14/2018	#CMCSA	9:30:00 AM					N/A
12/14/2018	#CMCSA	11:30:00 AM					N/A
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12/14/2018	AUDHUF	9:30:00 AM	204.6	204.83			N/A
12/14/2018	AUDHUF	11:30:00 AM	205.21	205.42			N/A
12/14/2018	AUDHUF	1:30:00 PM	205.13	205.35			N/A
12/14/2018	AUDHUF	3:30:00 PM	205.43	205.57			N/A
12/14/2018	AUDJPY	9:30:00 AM	81.502	81.544			N/A

12/14/2018	AUDJPY	11:30:00 AM	81.289	81.347			N/A
12/14/2018	AUDJPY	1:30:00 PM	81.323	81.387			N/A
12/14/2018	AUDJPY	3:30:00 PM	81.295	81.332			N/A
12/14/2018	AUDMXN	9:30:00 AM	14.6285	14.6365			N/A
12/14/2018	AUDMXN	11:30:00 AM	14.6785	14.6822			N/A
12/14/2018	AUDMXN	1:30:00 PM	14.584	14.5882			N/A
12/14/2018	AUDMXN	3:30:00 PM	14.5763	14.5832			N/A
12/14/2018	AUDNOK	9:30:00 AM	6.1621	6.166			N/A
12/14/2018	AUDNOK	11:30:00 AM	6.1744	6.1781			N/A
12/14/2018	AUDNOK	1:30:00 PM	6.1716	6.1763			N/A
12/14/2018	AUDNOK	3:30:00 PM	6.1707	6.1738			N/A
12/14/2018	AUDNZD	9:30:00 AM	1.05622	1.05705			N/A
12/14/2018	AUDNZD	11:30:00 AM	1.055	1.05581			N/A
12/14/2018	AUDNZD	1:30:00 PM	1.05431	1.05518			N/A
12/14/2018	AUDNZD	3:30:00 PM	1.05406	1.05458			N/A
12/14/2018	AUDPLN	9:30:00 AM	2.7218	2.7246			N/A
12/14/2018	AUDPLN	11:30:00 AM	2.7264	2.7292			N/A
12/14/2018	AUDPLN	1:30:00 PM	2.7221	2.7252			N/A
12/14/2018	AUDPLN	3:30:00 PM	2.7263	2.7283			N/A
12/14/2018	AUDSEK	9:30:00 AM	6.5182	6.519			N/A
12/14/2018	AUDSEK	11:30:00 AM	6.5145	6.5159			N/A
12/14/2018	AUDSEK	1:30:00 PM	6.5201	6.5225			N/A
12/14/2018	AUDSEK	3:30:00 PM	6.5103	6.511			N/A
12/14/2018	AUDSGD	9:30:00 AM	0.9857	0.9858			N/A
12/14/2018	AUDSGD	11:30:00 AM	0.9858	0.986			N/A
12/14/2018	AUDSGD	1:30:00 PM	0.9859	0.986			N/A
12/14/2018	AUDSGD	3:30:00 PM	0.9855	0.9853			N/A
12/14/2018	AUDUSD	9:30:00 AM	0.7179	0.71784		1000	N/A
12/14/2018	AUDUSD	11:30:00 AM	0.71655	0.71656			N/A
12/14/2018	AUDUSD	1:30:00 PM	0.71631	0.71641			N/A
12/14/2018	AUDUSD	3:30:00 PM	0.71607	0.71557			N/A
12/14/2018	AUDZAR	9:30:00 AM	10.2738	10.285			N/A
12/14/2018	AUDZAR	11:30:00 AM	10.29	10.2957			N/A
12/14/2018	AUDZAR	1:30:00 PM	10.2717	10.2867			N/A
12/14/2018	AUDZAR	3:30:00 PM	10.2892	10.3032			N/A
12/14/2018	CADCHF	9:30:00 AM	0.74289	0.74358			N/A
12/14/2018	CADCHF	11:30:00 AM	0.74375	0.74435			N/A
12/14/2018	CADCHF	1:30:00 PM	0.74406	0.74478			N/A
12/14/2018	CADCHF	3:30:00 PM	0.74488	0.74539			N/A
12/14/2018	CADCZK	9:30:00 AM	16.981	16.999			N/A
12/14/2018	CADCZK	11:30:00 AM	17.05	17.064			N/A
12/14/2018	CADCZK	1:30:00 PM	17.039	17.057			N/A
12/14/2018	CADCZK	3:30:00 PM	17.084	17.089			N/A
12/14/2018	CADDKK	9:30:00 AM	4.914	4.918			N/A
12/14/2018	CADDKK	11:30:00 AM					N/A
12/14/2018	CADDKK	1:30:00 PM					N/A
12/14/2018	CADDKK	3:30:00 PM	4.944	4.945			N/A
12/14/2018	CADHKD	9:30:00 AM	5.8366	5.8401			N/A
12/14/2018	CADHKD	11:30:00 AM	5.8329	5.8368			N/A
12/14/2018	CADHKD	1:30:00 PM	5.8346	5.8384			N/A

12/14/2018	CADHKD	3:30:00 PM	5.8372	5.8385			N/A
12/14/2018	CADHUF	9:30:00 AM	213.02	213.19			N/A
12/14/2018	CADHUF	11:30:00 AM	213.89	214.02			N/A
12/14/2018	CADHUF	1:30:00 PM	213.94	214.12			N/A
12/14/2018	CADHUF	3:30:00 PM	214.52	214.51			N/A
12/14/2018	CADJPY	9:30:00 AM	84.815	84.88			N/A
12/14/2018	CADJPY	11:30:00 AM	84.692	84.75			N/A
12/14/2018	CADJPY	1:30:00 PM	84.787	84.858			N/A
12/14/2018	CADJPY	3:30:00 PM	84.845	84.897			N/A
12/14/2018	CADMXN	9:30:00 AM	15.2272	15.2384			N/A
12/14/2018	CADMXN	11:30:00 AM	15.2962	15.3			N/A
12/14/2018	CADMXN	1:30:00 PM	15.2081	15.216			N/A
12/14/2018	CADMXN	3:30:00 PM	15.2172	15.2256			N/A
12/14/2018	CADNOK	9:30:00 AM	6.412	6.4157			N/A
12/14/2018	CADNOK	11:30:00 AM	6.4326	6.4363			N/A
12/14/2018	CADNOK	1:30:00 PM	6.4338	6.4387			N/A
12/14/2018	CADNOK	3:30:00 PM	6.4406	6.4424			N/A
12/14/2018	CADPLN	9:30:00 AM	2.8329	2.8348			N/A
12/14/2018	CADPLN	11:30:00 AM	2.8407	2.8426			N/A
12/14/2018	CADPLN	1:30:00 PM					N/A
12/14/2018	CADPLN	3:30:00 PM	2.8457	2.8461			N/A
12/14/2018	CADSEK	9:30:00 AM	6.7825	6.7851			N/A
12/14/2018	CADSEK	11:30:00 AM	6.7866	6.7884			N/A
12/14/2018	CADSEK	1:30:00 PM	6.797	6.8008			N/A
12/14/2018	CADSEK	3:30:00 PM	6.7952	6.7927			N/A
12/14/2018	CADSGD	9:30:00 AM					N/A
12/14/2018	CADSGD	11:30:00 AM	1.027	1.0273			N/A
12/14/2018	CADSGD	1:30:00 PM					N/A
12/14/2018	CADSGD	3:30:00 PM	1.0287	1.0289			N/A
12/14/2018	CADZAR	9:30:00 AM	10.6932	10.7083			N/A
12/14/2018	CADZAR	11:30:00 AM	10.7229	10.7308			N/A
12/14/2018	CADZAR	1:30:00 PM	10.7113	10.7284			N/A
12/14/2018	CADZAR	3:30:00 PM	10.7424	10.756			N/A
12/14/2018	CHFCZK	9:30:00 AM	22.853	22.869			N/A
12/14/2018	CHFCZK	11:30:00 AM	22.923	22.933			N/A
12/14/2018	CHFCZK	1:30:00 PM	22.894	22.912			N/A
12/14/2018	CHFCZK	3:30:00 PM	22.928	22.938			N/A
12/14/2018	CHFDKK	9:30:00 AM	6.612	6.615			N/A
12/14/2018	CHFDKK	11:30:00 AM	6.631	6.633			N/A
12/14/2018	CHFDKK	1:30:00 PM	6.628	6.632			N/A
12/14/2018	CHFDKK	3:30:00 PM	6.634	6.635			N/A
12/14/2018	CHFHKD	9:30:00 AM	7.8534	7.8567			N/A
12/14/2018	CHFHKD	11:30:00 AM	7.8417	7.8444			N/A
12/14/2018	CHFHKD	1:30:00 PM	7.8386	7.8426			N/A
12/14/2018	CHFHKD	3:30:00 PM	7.8353	7.8345			N/A
12/14/2018	CHFHUF	9:30:00 AM	286.55	286.93			N/A
12/14/2018	CHFHUF	11:30:00 AM	287.45	287.73			N/A
12/14/2018	CHFHUF	1:30:00 PM	287.33	287.71			N/A
12/14/2018	CHFHUF	3:30:00 PM	287.83	288.05			N/A
12/14/2018	CHFJPY	9:30:00 AM	114.131	114.183			N/A

12/14/2018	CHFJPY	11:30:00 AM	113.846	113.892			N/A
12/14/2018	CHFJPY	1:30:00 PM	113.911	113.975			N/A
12/14/2018	CHFJPY	3:30:00 PM	113.872	113.92			N/A
12/14/2018	CHFMXN	9:30:00 AM	20.4877	20.504			N/A
12/14/2018	CHFMXN	11:30:00 AM	20.5608	20.5666			N/A
12/14/2018	CHFMXN	1:30:00 PM	20.428	20.4412			N/A
12/14/2018	CHFMXN	3:30:00 PM	20.4253	20.4331			N/A
12/14/2018	CHFNOK	9:30:00 AM	8.6282	8.6341			N/A
12/14/2018	CHFNOK	11:30:00 AM	8.6456	8.6511			N/A
12/14/2018	CHFNOK	1:30:00 PM	8.643	8.6508			N/A
12/14/2018	CHFNOK	3:30:00 PM	8.6423	8.6484			N/A
12/14/2018	CHFPLN	9:30:00 AM	3.8118	3.8146			N/A
12/14/2018	CHFPLN	11:30:00 AM	3.8187	3.8208			N/A
12/14/2018	CHFPLN	1:30:00 PM	3.8131	3.816			N/A
12/14/2018	CHFPLN	3:30:00 PM	3.8189	3.8208			N/A
12/14/2018	CHFSEK	9:30:00 AM	9.1265	9.1294			N/A
12/14/2018	CHFSEK	11:30:00 AM	9.1225	9.1233			N/A
12/14/2018	CHFSEK	1:30:00 PM	9.1304	9.1348			N/A
12/14/2018	CHFSEK	3:30:00 PM	9.1193	9.1193			N/A
12/14/2018	CHFSGD	9:30:00 AM	1.3802	1.3806			N/A
12/14/2018	CHFSGD	11:30:00 AM	1.3803	1.3806			N/A
12/14/2018	CHFSGD	1:30:00 PM	1.3807	1.3811			N/A
12/14/2018	CHFSGD	3:30:00 PM	1.3804	1.3803			N/A
12/14/2018	CHFZAR	9:30:00 AM	14.3925	14.4045			N/A
12/14/2018	CHFZAR	11:30:00 AM	14.4164	14.4168			N/A
12/14/2018	CHFZAR	1:30:00 PM	14.3933	14.4085			N/A
12/14/2018	CHFZAR	3:30:00 PM	14.423	14.4337			N/A
12/14/2018	CZKJPY	9:30:00 AM	4.994	4.997			N/A
12/14/2018	CZKJPY	11:30:00 AM					N/A
12/14/2018	CZKJPY	1:30:00 PM					N/A
12/14/2018	CZKJPY	3:30:00 PM	4.967	4.969			N/A
12/14/2018	DKKJPY	9:30:00 AM					N/A
12/14/2018	DKKJPY	11:30:00 AM					N/A
12/14/2018	DKKJPY	1:30:00 PM	17.19	17.2			N/A
12/14/2018	DKKJPY	3:30:00 PM	17.17	17.18			N/A
12/14/2018	EURAUD	9:30:00 AM	1.57987	1.58008			N/A
12/14/2018	EURAUD	11:30:00 AM	1.57551	1.5758			N/A
12/14/2018	EURAUD	1:30:00 PM	1.5763	1.57648			N/A
12/14/2018	EURAUD	3:30:00 PM	1.57554	1.57545			N/A
12/14/2018	EURCAD	9:30:00 AM	1.51843	1.51911			N/A
12/14/2018	EURCAD	11:30:00 AM	1.51271	1.51324			N/A
12/14/2018	EURCAD	1:30:00 PM	1.51219	1.51297			N/A
12/14/2018	EURCAD	3:30:00 PM	1.51013	1.51012			N/A
12/14/2018	EURCHF	9:30:00 AM	1.12876	1.12876			N/A
12/14/2018	EURCHF	11:30:00 AM	1.12576	1.12555			N/A
12/14/2018	EURCHF	1:30:00 PM	1.12593	1.12605			N/A
12/14/2018	EURCHF	3:30:00 PM	1.12538	1.12512			N/A
12/14/2018	EURCZK	9:30:00 AM	25.781	25.82			N/A
12/14/2018	EURCZK	11:30:00 AM	25.784	25.823			N/A
12/14/2018	EURCZK	1:30:00 PM	25.764	25.803			N/A

12/14/2018	EURCZK	3:30:00 PM	25.781	25.817			N/A
12/14/2018	EURDKK	9:30:00 AM	7.4643	7.4655			N/A
12/14/2018	EURDKK	11:30:00 AM	7.4641	7.4645			N/A
12/14/2018	EURDKK	1:30:00 PM	7.4644	7.4656			N/A
12/14/2018	EURDKK	3:30:00 PM	7.4642	7.4654			N/A
12/14/2018	EURGBP	9:30:00 AM	0.89959	0.89954			N/A
12/14/2018	EURGBP	11:30:00 AM	0.89788	0.89791			N/A
12/14/2018	EURGBP	1:30:00 PM	0.89839	0.89844			N/A
12/14/2018	EURGBP	3:30:00 PM	0.89891	0.89832			N/A
12/14/2018	EURHKD	9:30:00 AM	8.8633	8.8673			N/A
12/14/2018	EURHKD	11:30:00 AM	8.8261	8.8293			N/A
12/14/2018	EURHKD	1:30:00 PM	8.825	8.8293			N/A
12/14/2018	EURHKD	3:30:00 PM	8.8172	8.8128			N/A
12/14/2018	EURHUF	9:30:00 AM	323.3	323.97			N/A
12/14/2018	EURHUF	11:30:00 AM	323.4	324.12			N/A
12/14/2018	EURHUF	1:30:00 PM	323.44	324.13			N/A
12/14/2018	EURHUF	3:30:00 PM	323.7	324.4			N/A
12/14/2018	EURJPY	9:30:00 AM	128.869	128.851			N/A
12/14/2018	EURJPY	11:30:00 AM	128.183	128.171			N/A
12/14/2018	EURJPY	1:30:00 PM	128.3	128.295			N/A
12/14/2018	EURJPY	3:30:00 PM	128.186	128.125			N/A
12/14/2018	EURMXN	9:30:00 AM	23.1296	23.1461			N/A
12/14/2018	EURMXN	11:30:00 AM	23.1438	23.1502			N/A
12/14/2018	EURMXN	1:30:00 PM	23.0024	23.0175			N/A
12/14/2018	EURMXN	3:30:00 PM	22.9834	22.992			N/A
12/14/2018	EURNOK	9:30:00 AM	9.737	9.7481			N/A
12/14/2018	EURNOK	11:30:00 AM	9.7302	9.7406			N/A
12/14/2018	EURNOK	1:30:00 PM	9.7304	9.7421			N/A
12/14/2018	EURNOK	3:30:00 PM	9.7221	9.7339			N/A
12/14/2018	EURNZD	9:30:00 AM	1.66976	1.6704			N/A
12/14/2018	EURNZD	11:30:00 AM	1.66324	1.66385			N/A
12/14/2018	EURNZD	1:30:00 PM	1.66291	1.66367			N/A
12/14/2018	EURNZD	3:30:00 PM	1.66157	1.66181			N/A
12/14/2018	EURPLN	9:30:00 AM	4.3025	4.3058			N/A
12/14/2018	EURPLN	11:30:00 AM	4.2982	4.3012			N/A
12/14/2018	EURPLN	1:30:00 PM	4.2935	4.2966			N/A
12/14/2018	EURPLN	3:30:00 PM	4.2968	4.2997			N/A
12/14/2018	EURRUR	9:30:00 AM					N/A
12/14/2018	EURRUR	11:30:00 AM	74.764	75.189			N/A
12/14/2018	EURRUR	1:30:00 PM	74.726	75.16			N/A
12/14/2018	EURRUR	3:30:00 PM	75.008	75.365			N/A
12/14/2018	EURSEK	9:30:00 AM	10.3018	10.3045			N/A
12/14/2018	EURSEK	11:30:00 AM	10.2686	10.2712			N/A
12/14/2018	EURSEK	1:30:00 PM	10.2816	10.2867			N/A
12/14/2018	EURSEK	3:30:00 PM	10.26	10.2627			N/A
12/14/2018	EURSGD	9:30:00 AM	1.5578	1.5585			N/A
12/14/2018	EURSGD	11:30:00 AM	1.5537	1.5543			N/A
12/14/2018	EURSGD	1:30:00 PM	1.5544	1.5552			N/A
12/14/2018	EURSGD	3:30:00 PM	1.5534	1.5532			N/A
12/14/2018	EURUSD	9:30:00 AM	1.13459	1.13453			N/A

12/14/2018	EURUSD	11:30:00 AM	1.1294	1.12924			N/A
12/14/2018	EURUSD	1:30:00 PM	1.12954	1.12953			N/A
12/14/2018	EURUSD	3:30:00 PM	1.12859	1.1275		900	N/A
12/14/2018	EURZAR	9:30:00 AM	16.2487	16.2611			N/A
12/14/2018	EURZAR	11:30:00 AM	16.2298	16.234			N/A
12/14/2018	EURZAR	1:30:00 PM	16.2097	16.2297			N/A
12/14/2018	EURZAR	3:30:00 PM	16.2338	16.2425			N/A
12/14/2018	GBPAUD	9:30:00 AM	1.75702	1.75732			N/A
12/14/2018	GBPAUD	11:30:00 AM	1.75518	1.75582			N/A
12/14/2018	GBPAUD	1:30:00 PM	1.75493	1.75564			N/A
12/14/2018	GBPAUD	3:30:00 PM	1.75399	1.75381			N/A
12/14/2018	GBPCAD	9:30:00 AM	1.68802	1.68875			N/A
12/14/2018	GBPCAD	11:30:00 AM	1.68472	1.68524			N/A
12/14/2018	GBPCAD	1:30:00 PM	1.68324	1.68399			N/A
12/14/2018	GBPCAD	3:30:00 PM	1.6804	1.68045			N/A
12/14/2018	GBPCHF	9:30:00 AM	1.25471	1.25502			N/A
12/14/2018	GBPCHF	11:30:00 AM	1.25355	1.25374			N/A
12/14/2018	GBPCHF	1:30:00 PM	1.2531	1.25351			N/A
12/14/2018	GBPCHF	3:30:00 PM	1.25229	1.25214			N/A
12/14/2018	GBPCZK	9:30:00 AM	28.671	28.689			N/A
12/14/2018	GBPCZK	11:30:00 AM	28.726	28.747			N/A
12/14/2018	GBPCZK	1:30:00 PM	28.688	28.709			N/A
12/14/2018	GBPCZK	3:30:00 PM	28.71	28.708			N/A
12/14/2018	GBPDKK	9:30:00 AM	8.295	8.304			N/A
12/14/2018	GBPDKK	11:30:00 AM	8.309	8.319			N/A
12/14/2018	GBPDKK	1:30:00 PM	8.304	8.315			N/A
12/14/2018	GBPDKK	3:30:00 PM	8.306	8.311			N/A
12/14/2018	GBPHKD	9:30:00 AM	9.8511	9.857			N/A
12/14/2018	GBPHKD	11:30:00 AM	9.8274	9.833			N/A
12/14/2018	GBPHKD	1:30:00 PM	9.8209	9.8263			N/A
12/14/2018	GBPHKD	3:30:00 PM	9.806	9.8065			N/A
12/14/2018	GBPHUF	9:30:00 AM	359.51	359.92			N/A
12/14/2018	GBPHUF	11:30:00 AM	360.24	360.66			N/A
12/14/2018	GBPHUF	1:30:00 PM	360.04	360.51			N/A
12/14/2018	GBPHUF	3:30:00 PM	360.38	360.49			N/A
12/14/2018	GBPJPY	9:30:00 AM	143.228	143.268			N/A
12/14/2018	GBPJPY	11:30:00 AM	142.744	142.77			N/A
12/14/2018	GBPJPY	1:30:00 PM	142.791	142.826			N/A
12/14/2018	GBPJPY	3:30:00 PM	142.643	142.608			N/A
12/14/2018	GBPMXN	9:30:00 AM	25.7053	25.7198			N/A
12/14/2018	GBPMXN	11:30:00 AM	25.7707	25.7752			N/A
12/14/2018	GBPMXN	1:30:00 PM	25.601	25.6081			N/A
12/14/2018	GBPMXN	3:30:00 PM	25.5696	25.5728			N/A
12/14/2018	GBPNOK	9:30:00 AM	10.8261	10.8341			N/A
12/14/2018	GBPNOK	11:30:00 AM	10.8382	10.8469			N/A
12/14/2018	GBPNOK	1:30:00 PM	10.8315	10.8425			N/A
12/14/2018	GBPNOK	3:30:00 PM	10.8235	10.8281			N/A
12/14/2018	GBPNZD	9:30:00 AM	1.85647	1.85669			N/A
12/14/2018	GBPNZD	11:30:00 AM	1.85245	1.85306			N/A
12/14/2018	GBPNZD	1:30:00 PM	1.85098	1.85175			N/A

12/14/2018	GBPNZD	3:30:00 PM	1.84962	1.84892			N/A
12/14/2018	GBPPLN	9:30:00 AM	4.7841	4.7852			N/A
12/14/2018	GBPPLN	11:30:00 AM	4.7877	4.7893			N/A
12/14/2018	GBPPLN	1:30:00 PM	4.78	4.7817			N/A
12/14/2018	GBPPLN	3:30:00 PM	4.7843	4.7826			N/A
12/14/2018	GBPSEK	9:30:00 AM	11.45	11.4582			N/A
12/14/2018	GBPSEK	11:30:00 AM	11.4346	11.4406			N/A
12/14/2018	GBPSEK	1:30:00 PM	11.4423	11.4512			N/A
12/14/2018	GBPSEK	3:30:00 PM	11.4184	11.4209			N/A
12/14/2018	GBPSGD	9:30:00 AM	1.7319	1.7325			N/A
12/14/2018	GBPSGD	11:30:00 AM	1.7305	1.7311			N/A
12/14/2018	GBPSGD	1:30:00 PM	1.7303	1.731			N/A
12/14/2018	GBPSGD	3:30:00 PM	1.7284	1.7283			N/A
12/14/2018	GBPUSD	9:30:00 AM	1.26144	1.26148		500	N/A
12/14/2018	GBPUSD	11:30:00 AM	1.25796	1.25786			N/A
12/14/2018	GBPUSD	1:30:00 PM	1.25745	1.25746			N/A
12/14/2018	GBPUSD	3:30:00 PM	1.25575	1.25495			N/A
12/14/2018	GBPZAR	9:30:00 AM	18.0592	18.0812			N/A
12/14/2018	GBPZAR	11:30:00 AM	18.0705	18.0831			N/A
12/14/2018	GBPZAR	1:30:00 PM	18.0384	18.0668			N/A
12/14/2018	GBPZAR	3:30:00 PM	18.0603	18.0805			N/A
12/14/2018	GOLD	9:30:00 AM	1239.73	1239.94			N/A
12/14/2018	GOLD	11:30:00 AM	1238.83	1239.06			N/A
12/14/2018	GOLD	1:30:00 PM	1238.35	1238.72			N/A
12/14/2018	GOLD	3:30:00 PM	1237.54	1236.62			N/A
12/14/2018	HKDJPY	9:30:00 AM	14.54	14.54			N/A
12/14/2018	HKDJPY	11:30:00 AM	14.52	14.53			N/A
12/14/2018	HKDJPY	1:30:00 PM	14.53	14.54			N/A
12/14/2018	HKDJPY	3:30:00 PM	14.54	14.55			N/A
12/14/2018	HUFJPY	9:30:00 AM	0.3983	0.3986			N/A
12/14/2018	HUFJPY	11:30:00 AM	0.396	0.3963			N/A
12/14/2018	HUFJPY	1:30:00 PM					N/A
12/14/2018	HUFJPY	3:30:00 PM					N/A
12/14/2018	MXNJPY	9:30:00 AM	5.57	5.59			N/A
12/14/2018	MXNJPY	11:30:00 AM	5.54	5.55			N/A
12/14/2018	MXNJPY	1:30:00 PM	5.58	5.58			N/A
12/14/2018	MXNJPY	3:30:00 PM	5.58	5.58			N/A
12/14/2018	NOKJPY	9:30:00 AM	13.21	13.24			N/A
12/14/2018	NOKJPY	11:30:00 AM	13.15	13.18			N/A
12/14/2018	NOKJPY	1:30:00 PM	13.17	13.2			N/A
12/14/2018	NOKJPY	3:30:00 PM	13.16	13.19			N/A
12/14/2018	NZDCAD	9:30:00 AM	0.9091	0.90966			N/A
12/14/2018	NZDCAD	11:30:00 AM	0.90917	0.90976			N/A
12/14/2018	NZDCAD	1:30:00 PM	0.90902	0.90976			N/A
12/14/2018	NZDCAD	3:30:00 PM	0.90877	0.90888			N/A
12/14/2018	NZDCHF	9:30:00 AM	0.67558	0.67615			N/A
12/14/2018	NZDCHF	11:30:00 AM	0.67637	0.67694			N/A
12/14/2018	NZDCHF	1:30:00 PM	0.67662	0.67732			N/A
12/14/2018	NZDCHF	3:30:00 PM	0.677	0.67736			N/A
12/14/2018	NZDCZK	9:30:00 AM	15.44	15.452			N/A

12/14/2018	NZDCZK	11:30:00 AM	15.504	15.514			N/A
12/14/2018	NZDCZK	1:30:00 PM	15.494	15.506			N/A
12/14/2018	NZDCZK	3:30:00 PM	15.52	15.525			N/A
12/14/2018	NZDDKK	9:30:00 AM					N/A
12/14/2018	NZDDKK	11:30:00 AM					N/A
12/14/2018	NZDDKK	1:30:00 PM					N/A
12/14/2018	NZDDKK	3:30:00 PM	4.491	4.493			N/A
12/14/2018	NZDHKD	9:30:00 AM	5.3067	5.3079			N/A
12/14/2018	NZDHKD	11:30:00 AM	5.3035	5.3062			N/A
12/14/2018	NZDHKD	1:30:00 PM	5.3042	5.307			N/A
12/14/2018	NZDHKD	3:30:00 PM	5.3029	5.3021			N/A
12/14/2018	NZDHUF	9:30:00 AM	193.6	193.87			N/A
12/14/2018	NZDHUF	11:30:00 AM	194.39	194.65			N/A
12/14/2018	NZDHUF	1:30:00 PM					N/A
12/14/2018	NZDHUF	3:30:00 PM	194.79	194.95			N/A
12/14/2018	NZDJPY	9:30:00 AM	77.137	77.18			N/A
12/14/2018	NZDJPY	11:30:00 AM	77.019	77.085			N/A
12/14/2018	NZDJPY	1:30:00 PM	77.099	77.172			N/A
12/14/2018	NZDJPY	3:30:00 PM	77.113	77.139			N/A
12/14/2018	NZDMXN	9:30:00 AM	13.8455	13.8491			N/A
12/14/2018	NZDMXN	11:30:00 AM	13.9081	13.9083			N/A
12/14/2018	NZDMXN	1:30:00 PM	13.8275	13.8295			N/A
12/14/2018	NZDMXN	3:30:00 PM	13.8245	13.8262			N/A
12/14/2018	NZDNOK	9:30:00 AM	5.8295	5.8327			N/A
12/14/2018	NZDNOK	11:30:00 AM	5.8486	5.8509			N/A
12/14/2018	NZDNOK	1:30:00 PM	5.8491	5.853			N/A
12/14/2018	NZDNOK	3:30:00 PM	5.8497	5.8512			N/A
12/14/2018	NZDPLN	9:30:00 AM	2.5756	2.577			N/A
12/14/2018	NZDPLN	11:30:00 AM	2.5827	2.5841			N/A
12/14/2018	NZDPLN	1:30:00 PM	2.5803	2.5817			N/A
12/14/2018	NZDPLN	3:30:00 PM	2.5847	2.5857			N/A
12/14/2018	NZDSEK	9:30:00 AM	6.1643	6.1693			N/A
12/14/2018	NZDSEK	11:30:00 AM	6.1687	6.1735			N/A
12/14/2018	NZDSEK	1:30:00 PM	6.1771	6.1839			N/A
12/14/2018	NZDSEK	3:30:00 PM	6.1702	6.1738			N/A
12/14/2018	NZDSGD	9:30:00 AM	0.9328	0.9332			N/A
12/14/2018	NZDSGD	11:30:00 AM	0.9339	0.9345			N/A
12/14/2018	NZDSGD	1:30:00 PM	0.9345	0.9351			N/A
12/14/2018	NZDSGD	3:30:00 PM	0.9348	0.9347			N/A
12/14/2018	NZDUSD	9:30:00 AM	0.67939	0.67936			N/A
12/14/2018	NZDUSD	11:30:00 AM	0.67886	0.67894			N/A
12/14/2018	NZDUSD	1:30:00 PM	0.67906	0.67921			N/A
12/14/2018	NZDUSD	3:30:00 PM	0.67919	0.67858			N/A
12/14/2018	NZDZAR	9:30:00 AM	9.7209	9.7341			N/A
12/14/2018	NZDZAR	11:30:00 AM	9.7481	9.7557			N/A
12/14/2018	NZDZAR	1:30:00 PM	9.7359	9.7534			N/A
12/14/2018	NZDZAR	3:30:00 PM	9.758	9.7717			N/A
12/14/2018	SEKJPY	9:30:00 AM	12.51	12.52			N/A
12/14/2018	SEKJPY	11:30:00 AM	12.48	12.49			N/A
12/14/2018	SEKJPY	1:30:00 PM	12.48	12.49			N/A

12/14/2018	SEKJPY	3:30:00 PM	12.49	12.49			N/A
12/14/2018	SGDJPY	9:30:00 AM	82.66	82.69			N/A
12/14/2018	SGDJPY	11:30:00 AM	82.45	82.48			N/A
12/14/2018	SGDJPY	1:30:00 PM	82.49	82.52			N/A
12/14/2018	SGDJPY	3:30:00 PM	82.49	82.51			N/A
12/14/2018	SILVER	9:30:00 AM	14.46	14.83			N/A
12/14/2018	SILVER	11:30:00 AM	14.42	14.8			N/A
12/14/2018	SILVER	1:30:00 PM	14.42	14.79			N/A
12/14/2018	SILVER	3:30:00 PM	14.37	14.73			N/A
12/14/2018	USDCAD	9:30:00 AM	1.33842	1.33851			N/A
12/14/2018	USDCAD	11:30:00 AM	1.3396	1.33952			N/A
12/14/2018	USDCAD	1:30:00 PM	1.3389	1.33901			N/A
12/14/2018	USDCAD	3:30:00 PM	1.33889	1.33818			N/A
12/14/2018	USDCHF	9:30:00 AM	0.99477	0.99482			N/A
12/14/2018	USDCHF	11:30:00 AM	0.99671	0.9966			N/A
12/14/2018	USDCHF	1:30:00 PM	0.9967	0.99679			N/A
12/14/2018	USDCHF	3:30:00 PM	0.99766	0.99712			N/A
12/14/2018	USDCZK	9:30:00 AM	22.733	22.754			N/A
12/14/2018	USDCZK	11:30:00 AM	22.844	22.861			N/A
12/14/2018	USDCZK	1:30:00 PM	22.82	22.841			N/A
12/14/2018	USDCZK	3:30:00 PM	22.875	22.874			N/A
12/14/2018	USDDKK	9:30:00 AM	6.5778	6.5809			N/A
12/14/2018	USDDKK	11:30:00 AM	6.6087	6.611			N/A
12/14/2018	USDDKK	1:30:00 PM	6.6077	6.6107			N/A
12/14/2018	USDDKK	3:30:00 PM	6.6198	6.6167			N/A
12/14/2018	USDHKD	9:30:00 AM	7.8126	7.8131			N/A
12/14/2018	USDHKD	11:30:00 AM	7.8155	7.8159			N/A
12/14/2018	USDHKD	1:30:00 PM					N/A
12/14/2018	USDHKD	3:30:00 PM	7.813	7.8134			N/A
12/14/2018	USDHUF	9:30:00 AM	285.07	285.5			N/A
12/14/2018	USDHUF	11:30:00 AM	286.45	286.84			N/A
12/14/2018	USDHUF	1:30:00 PM	286.38	286.84			N/A
12/14/2018	USDHUF	3:30:00 PM	287.14	287.29			N/A
12/14/2018	USDJPY	9:30:00 AM	113.556	113.564			N/A
12/14/2018	USDJPY	11:30:00 AM	113.481	113.485			N/A
12/14/2018	USDJPY	1:30:00 PM	113.564	113.576			N/A
12/14/2018	USDJPY	3:30:00 PM	113.623	113.576			N/A
12/14/2018	USDMXN	9:30:00 AM	20.386	20.394			N/A
12/14/2018	USDMXN	11:30:00 AM	20.494	20.494			N/A
12/14/2018	USDMXN	1:30:00 PM	20.368	20.37			N/A
12/14/2018	USDMXN	3:30:00 PM	20.382	20.374			N/A
12/14/2018	USDNOK	9:30:00 AM	8.5828	8.5891			N/A
12/14/2018	USDNOK	11:30:00 AM	8.6171	8.6227			N/A
12/14/2018	USDNOK	1:30:00 PM	8.6144	8.623			N/A
12/14/2018	USDNOK	3:30:00 PM	8.6227	8.6231			N/A
12/14/2018	USDPLN	9:30:00 AM	3.7927	3.7936			N/A
12/14/2018	USDPLN	11:30:00 AM	3.8064	3.807			N/A
12/14/2018	USDPLN	1:30:00 PM	3.8013	3.8027			N/A
12/14/2018	USDPLN	3:30:00 PM	3.811	3.8088			N/A
12/14/2018	USDRUR	9:30:00 AM					N/A

12/14/2018	USDRUR	11:30:00 AM	66.27	66.642			N/A
12/14/2018	USDRUR	1:30:00 PM	66.221	66.602			N/A
12/14/2018	USDRUR	3:30:00 PM	66.582	66.877			N/A
12/14/2018	USDSEK	9:30:00 AM	9.0783	9.081			N/A
12/14/2018	USDSEK	11:30:00 AM	9.0917	9.0924			N/A
12/14/2018	USDSEK	1:30:00 PM	9.1012	9.105			N/A
12/14/2018	USDSEK	3:30:00 PM	9.0985	9.0937			N/A
12/14/2018	USDSGD	9:30:00 AM	1.373	1.3733			N/A
12/14/2018	USDSGD	11:30:00 AM	1.3756	1.3761			N/A
12/14/2018	USDSGD	1:30:00 PM	1.3762	1.3765			N/A
12/14/2018	USDSGD	3:30:00 PM	1.3769	1.3768			N/A
12/14/2018	USDZAR	9:30:00 AM	14.3174	14.3292			N/A
12/14/2018	USDZAR	11:30:00 AM	14.37	14.3723			N/A
12/14/2018	USDZAR	1:30:00 PM	14.3474	14.3661			N/A
12/14/2018	USDZAR	3:30:00 PM	14.3893	14.3976			N/A
12/14/2018	XAUUSD	9:30:00 AM	1239.73	1239.84			N/A
12/14/2018	XAUUSD	11:30:00 AM	1238.81	1238.95			N/A
12/14/2018	XAUUSD	1:30:00 PM	1238.38	1238.67			N/A
12/14/2018	XAUUSD	3:30:00 PM	1237.6	1236.55			N/A
12/14/2018	ZARJPY	9:30:00 AM	7.91	7.93			N/A
12/14/2018	ZARJPY	11:30:00 AM	7.88	7.89			N/A
12/14/2018	ZARJPY	1:30:00 PM					N/A
12/14/2018	ZARJPY	3:30:00 PM	7.87	7.89			N/A
12/17/2018	#AA	9:30:00 AM					N/A
12/17/2018	#AA	11:30:00 AM					N/A
12/17/2018	#AA	1:30:00 PM					N/A
12/17/2018	#AA	3:30:00 PM					N/A
12/17/2018	#AABA	9:30:00 AM					N/A
12/17/2018	#AABA	11:30:00 AM					N/A
12/17/2018	#AABA	1:30:00 PM					N/A
12/17/2018	#AABA	3:30:00 PM					N/A
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12/17/2018	#AAL	11:30:00 AM					N/A
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12/17/2018	#AAPL	1:30:00 PM					N/A
12/17/2018	#AAPL	3:30:00 PM					N/A
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12/17/2018	#ADBE	3:30:00 PM					N/A
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12/17/2018	#AIG	1:30:00 PM					N/A
12/17/2018	#AIG	3:30:00 PM					N/A
12/17/2018	#AMD	9:30:00 AM					N/A
12/17/2018	#AMD	11:30:00 AM					N/A
12/17/2018	#AMD	1:30:00 PM					N/A

12/17/2018	#AMD	3:30:00 PM					N/A
12/17/2018	#AMZN	9:30:00 AM					N/A
12/17/2018	#AMZN	11:30:00 AM					N/A
12/17/2018	#AMZN	1:30:00 PM					N/A
12/17/2018	#AMZN	3:30:00 PM					N/A
12/17/2018	#AXP	9:30:00 AM					N/A
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12/17/2018	#AXP	1:30:00 PM					N/A
12/17/2018	#AXP	3:30:00 PM					N/A
12/17/2018	#BA	9:30:00 AM					N/A
12/17/2018	#BA	11:30:00 AM					N/A
12/17/2018	#BA	1:30:00 PM					N/A
12/17/2018	#BA	3:30:00 PM					N/A
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12/17/2018	#BABA	11:30:00 AM					N/A
12/17/2018	#BABA	1:30:00 PM					N/A
12/17/2018	#BABA	3:30:00 PM					N/A
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12/17/2018	#BAC	1:30:00 PM					N/A
12/17/2018	#BAC	3:30:00 PM					N/A
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12/17/2018	#BARC	1:30:00 PM					N/A
12/17/2018	#BARC	3:30:00 PM					N/A
12/17/2018	#BHP	9:30:00 AM					N/A
12/17/2018	#BHP	11:30:00 AM					N/A
12/17/2018	#BHP	1:30:00 PM					N/A
12/17/2018	#BHP	3:30:00 PM					N/A
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12/17/2018	#BIDU	11:30:00 AM					N/A
12/17/2018	#BIDU	1:30:00 PM					N/A
12/17/2018	#BIDU	3:30:00 PM					N/A
12/17/2018	#BK	9:30:00 AM					N/A
12/17/2018	#BK	11:30:00 AM					N/A
12/17/2018	#BK	1:30:00 PM					N/A
12/17/2018	#BK	3:30:00 PM					N/A
12/17/2018	#BLT	9:30:00 AM					N/A
12/17/2018	#BLT	11:30:00 AM					N/A
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12/17/2018	#BLT	3:30:00 PM					N/A
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12/17/2018	#BP	1:30:00 PM					N/A
12/17/2018	#BP	3:30:00 PM					N/A
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12/17/2018	#BTA	1:30:00 PM					N/A
12/17/2018	#BTA	3:30:00 PM					N/A
12/17/2018	#C	9:30:00 AM					N/A

12/17/2018	#C	11:30:00 AM					N/A
12/17/2018	#C	1:30:00 PM					N/A
12/17/2018	#C	3:30:00 PM					N/A
12/17/2018	#CAT	9:30:00 AM					N/A
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12/17/2018	#CAT	3:30:00 PM					N/A
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12/17/2018	#CHL	11:30:00 AM					N/A
12/17/2018	#CHL	1:30:00 PM					N/A
12/17/2018	#CHL	3:30:00 PM					N/A
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12/17/2018	#CMCSA	11:30:00 AM					N/A
12/17/2018	#CMCSA	1:30:00 PM					N/A
12/17/2018	#CMCSA	3:30:00 PM					N/A
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12/17/2018	#CSCO	1:30:00 PM					N/A
12/17/2018	#CSCO	3:30:00 PM					N/A
12/17/2018	#CVX	9:30:00 AM					N/A
12/17/2018	#CVX	11:30:00 AM					N/A
12/17/2018	#CVX	1:30:00 PM					N/A
12/17/2018	#CVX	3:30:00 PM					N/A
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12/17/2018	AUDJPY	3:30:00 PM	81.246	81.303			N/A
12/17/2018	AUDMXN	9:30:00 AM	14.4396	14.4442			N/A
12/17/2018	AUDMXN	11:30:00 AM	14.4461	14.4555			N/A
12/17/2018	AUDMXN	1:30:00 PM	14.4757	14.4808			N/A
12/17/2018	AUDMXN	3:30:00 PM	14.4444	14.4493			N/A
12/17/2018	AUDNOK	9:30:00 AM	6.1781	6.1814			N/A
12/17/2018	AUDNOK	11:30:00 AM	6.1871	6.1913			N/A
12/17/2018	AUDNOK	1:30:00 PM	6.1787	6.1838			N/A
12/17/2018	AUDNOK	3:30:00 PM	6.1943	6.1985			N/A
12/17/2018	AUDNZD	9:30:00 AM	1.05482	1.05575			N/A
12/17/2018	AUDNZD	11:30:00 AM	1.05329	1.05421			N/A
12/17/2018	AUDNZD	1:30:00 PM	1.05361	1.05455			N/A
12/17/2018	AUDNZD	3:30:00 PM	1.05443	1.05527			N/A
12/17/2018	AUDPLN	9:30:00 AM	2.7209	2.7238			N/A
12/17/2018	AUDPLN	11:30:00 AM	2.7176	2.7206			N/A
12/17/2018	AUDPLN	1:30:00 PM	2.7128	2.7159			N/A
12/17/2018	AUDPLN	3:30:00 PM	2.7086	2.7113			N/A
12/17/2018	AUDSEK	9:30:00 AM	6.4974	6.4981			N/A
12/17/2018	AUDSEK	11:30:00 AM	6.5177	6.5205			N/A
12/17/2018	AUDSEK	1:30:00 PM	6.4919	6.4949			N/A
12/17/2018	AUDSEK	3:30:00 PM	6.5068	6.5074			N/A
12/17/2018	AUDSGD	9:30:00 AM	0.9866	0.9869			N/A
12/17/2018	AUDSGD	11:30:00 AM	0.9868	0.9871			N/A
12/17/2018	AUDSGD	1:30:00 PM	0.9864	0.9866			N/A
12/17/2018	AUDSGD	3:30:00 PM	0.9866	0.9869			N/A
12/17/2018	AUDUSD	9:30:00 AM	0.71767	0.71775			N/A
12/17/2018	AUDUSD	11:30:00 AM	0.71795	0.71805			N/A
12/17/2018	AUDUSD	1:30:00 PM	0.71764	0.71776			N/A
12/17/2018	AUDUSD	3:30:00 PM	0.71794	0.718			N/A
12/17/2018	AUDZAR	9:30:00 AM	10.2998	10.3079			N/A
12/17/2018	AUDZAR	11:30:00 AM	10.2593	10.2689			N/A
12/17/2018	AUDZAR	1:30:00 PM	10.2895	10.3046			N/A
12/17/2018	AUDZAR	3:30:00 PM	10.2949	10.3071			N/A
12/17/2018	CADCHF	9:30:00 AM	0.74502	0.74573			N/A

12/17/2018	CADCHF	11:30:00 AM	0.74458	0.74521			N/A
12/17/2018	CADCHF	1:30:00 PM	0.74307	0.74374			N/A
12/17/2018	CADCHF	3:30:00 PM	0.74072	0.74131			N/A
12/17/2018	CADCZK	9:30:00 AM	17.007	17.025			N/A
12/17/2018	CADCZK	11:30:00 AM					N/A
12/17/2018	CADCZK	1:30:00 PM	16.976	16.992			N/A
12/17/2018	CADCZK	3:30:00 PM	16.955	16.971			N/A
12/17/2018	CADDDKK	9:30:00 AM					N/A
12/17/2018	CADDDKK	11:30:00 AM					N/A
12/17/2018	CADDDKK	1:30:00 PM					N/A
12/17/2018	CADDDKK	3:30:00 PM	4.912	4.916			N/A
12/17/2018	CADHKD	9:30:00 AM	5.8361	5.8401			N/A
12/17/2018	CADHKD	11:30:00 AM	5.8396	5.8435			N/A
12/17/2018	CADHKD	1:30:00 PM	5.8355	5.8393			N/A
12/17/2018	CADHKD	3:30:00 PM	5.8318	5.8356			N/A
12/17/2018	CADHUF	9:30:00 AM	213.49	213.66			N/A
12/17/2018	CADHUF	11:30:00 AM	213.32	213.48			N/A
12/17/2018	CADHUF	1:30:00 PM					N/A
12/17/2018	CADHUF	3:30:00 PM	212.63	212.71			N/A
12/17/2018	CADJPY	9:30:00 AM	84.718	84.787			N/A
12/17/2018	CADJPY	11:30:00 AM	84.721	84.792			N/A
12/17/2018	CADJPY	1:30:00 PM	84.592	84.666			N/A
12/17/2018	CADJPY	3:30:00 PM	84.494	84.537			N/A
12/17/2018	CADMXN	9:30:00 AM	15.035	15.0436			N/A
12/17/2018	CADMXN	11:30:00 AM	15.0416	15.0544			N/A
12/17/2018	CADMXN	1:30:00 PM	15.0697	15.0783			N/A
12/17/2018	CADMXN	3:30:00 PM	15.0225	15.0307			N/A
12/17/2018	CADNOK	9:30:00 AM	6.431	6.4348			N/A
12/17/2018	CADNOK	11:30:00 AM	6.4419	6.4454			N/A
12/17/2018	CADNOK	1:30:00 PM	6.4309	6.4357			N/A
12/17/2018	CADNOK	3:30:00 PM	6.4411	6.4433			N/A
12/17/2018	CADPLN	9:30:00 AM	2.8328	2.8345			N/A
12/17/2018	CADPLN	11:30:00 AM	2.83	2.8319			N/A
12/17/2018	CADPLN	1:30:00 PM	2.8242	2.8261			N/A
12/17/2018	CADPLN	3:30:00 PM	2.8171	2.819			N/A
12/17/2018	CADSEK	9:30:00 AM	6.7634	6.7653			N/A
12/17/2018	CADSEK	11:30:00 AM	6.7847	6.7885			N/A
12/17/2018	CADSEK	1:30:00 PM	6.7567	6.7606			N/A
12/17/2018	CADSEK	3:30:00 PM	6.7654	6.767			N/A
12/17/2018	CADSGD	9:30:00 AM	1.0266	1.027			N/A
12/17/2018	CADSGD	11:30:00 AM	1.0269	1.0272			N/A
12/17/2018	CADSGD	1:30:00 PM	1.0261	1.0264			N/A
12/17/2018	CADSGD	3:30:00 PM	1.0254	1.0258			N/A
12/17/2018	CADZAR	9:30:00 AM	10.7252	10.7348			N/A
12/17/2018	CADZAR	11:30:00 AM	10.6819	10.6947			N/A
12/17/2018	CADZAR	1:30:00 PM	10.7113	10.7291			N/A
12/17/2018	CADZAR	3:30:00 PM	10.7071	10.7222			N/A
12/17/2018	CHFCZK	9:30:00 AM	22.823	22.838			N/A
12/17/2018	CHFCZK	11:30:00 AM	22.826	22.84			N/A
12/17/2018	CHFCZK	1:30:00 PM	22.841	22.853			N/A

12/17/2018	CHFCZK	3:30:00 PM	22.887	22.9			N/A
12/17/2018	CHFDKK	9:30:00 AM	6.613	6.616			N/A
12/17/2018	CHFDKK	11:30:00 AM	6.612	6.616			N/A
12/17/2018	CHFDKK	1:30:00 PM	6.615	6.618			N/A
12/17/2018	CHFDKK	3:30:00 PM	6.631	6.633			N/A
12/17/2018	CHFHKD	9:30:00 AM	7.8312	7.8352			N/A
12/17/2018	CHFHKD	11:30:00 AM	7.8396	7.8435			N/A
12/17/2018	CHFHKD	1:30:00 PM	7.8512	7.8546			N/A
12/17/2018	CHFHKD	3:30:00 PM	7.8724	7.8742			N/A
12/17/2018	CHFHUF	9:30:00 AM	286.37	286.74			N/A
12/17/2018	CHFHUF	11:30:00 AM	286.3	286.68			N/A
12/17/2018	CHFHUF	1:30:00 PM	286.25	286.62			N/A
12/17/2018	CHFHUF	3:30:00 PM	286.92	287.12			N/A
12/17/2018	CHFJPY	9:30:00 AM	113.674	113.733			N/A
12/17/2018	CHFJPY	11:30:00 AM	113.754	113.812			N/A
12/17/2018	CHFJPY	1:30:00 PM	113.812	113.869			N/A
12/17/2018	CHFJPY	3:30:00 PM	114.033	114.085			N/A
12/17/2018	CHFMXN	9:30:00 AM	20.1708	20.1835			N/A
12/17/2018	CHFMXN	11:30:00 AM	20.1952	20.2096			N/A
12/17/2018	CHFMXN	1:30:00 PM	20.2728	20.2843			N/A
12/17/2018	CHFMXN	3:30:00 PM	20.2755	20.286			N/A
12/17/2018	CHFNOK	9:30:00 AM	8.6284	8.6351			N/A
12/17/2018	CHFNOK	11:30:00 AM	8.6469	8.6532			N/A
12/17/2018	CHFNOK	1:30:00 PM	8.652	8.6588			N/A
12/17/2018	CHFNOK	3:30:00 PM	8.6932	8.7001			N/A
12/17/2018	CHFPLN	9:30:00 AM	3.8012	3.8041			N/A
12/17/2018	CHFPLN	11:30:00 AM	3.7993	3.8017			N/A
12/17/2018	CHFPLN	1:30:00 PM	3.7993	3.8021			N/A
12/17/2018	CHFPLN	3:30:00 PM	3.8023	3.8045			N/A
12/17/2018	CHFSEK	9:30:00 AM	9.0742	9.0766			N/A
12/17/2018	CHFSEK	11:30:00 AM	9.1093	9.1127			N/A
12/17/2018	CHFSEK	1:30:00 PM	9.0897	9.094			N/A
12/17/2018	CHFSEK	3:30:00 PM	9.1297	9.1327			N/A
12/17/2018	CHFSGD	9:30:00 AM	1.378	1.3784			N/A
12/17/2018	CHFSGD	11:30:00 AM	1.3793	1.3796			N/A
12/17/2018	CHFSGD	1:30:00 PM	1.3813	1.3816			N/A
12/17/2018	CHFSGD	3:30:00 PM	1.3848	1.3849			N/A
12/17/2018	CHFZAR	9:30:00 AM	14.3958	14.3982			N/A
12/17/2018	CHFZAR	11:30:00 AM	14.3469	14.3527			N/A
12/17/2018	CHFZAR	1:30:00 PM	14.4139	14.428			N/A
12/17/2018	CHFZAR	3:30:00 PM	14.4554	14.4652			N/A
12/17/2018	CZKJPY	9:30:00 AM					N/A
12/17/2018	CZKJPY	11:30:00 AM	4.983	4.987			N/A
12/17/2018	CZKJPY	1:30:00 PM	4.982	4.986			N/A
12/17/2018	CZKJPY	3:30:00 PM					N/A
12/17/2018	DKKJPY	9:30:00 AM					N/A
12/17/2018	DKKJPY	11:30:00 AM					N/A
12/17/2018	DKKJPY	1:30:00 PM					N/A
12/17/2018	DKKJPY	3:30:00 PM	17.21	17.22			N/A
12/17/2018	EURAUD	9:30:00 AM	1.57581	1.5761			N/A

12/17/2018	EURAUD	11:30:00 AM	1.57706	1.5774			N/A
12/17/2018	EURAUD	1:30:00 PM	1.57933	1.57962			N/A
12/17/2018	EURAUD	3:30:00 PM	1.57942	1.57954			N/A
12/17/2018	EURCAD	9:30:00 AM	1.51381	1.51467			N/A
12/17/2018	EURCAD	11:30:00 AM	1.51505	1.51588			N/A
12/17/2018	EURCAD	1:30:00 PM	1.51744	1.51836			N/A
12/17/2018	EURCAD	3:30:00 PM	1.51904	1.51972			N/A
12/17/2018	EURCHF	9:30:00 AM	1.12864	1.12871			N/A
12/17/2018	EURCHF	11:30:00 AM	1.12889	1.12881			N/A
12/17/2018	EURCHF	1:30:00 PM	1.12839	1.1284			N/A
12/17/2018	EURCHF	3:30:00 PM	1.12589	1.12576			N/A
12/17/2018	EURCZK	9:30:00 AM	25.744	25.784			N/A
12/17/2018	EURCZK	11:30:00 AM	25.752	25.792			N/A
12/17/2018	EURCZK	1:30:00 PM	25.761	25.795			N/A
12/17/2018	EURCZK	3:30:00 PM	25.751	25.789			N/A
12/17/2018	EURDKK	9:30:00 AM	7.4651	7.4663			N/A
12/17/2018	EURDKK	11:30:00 AM	7.4648	7.4659			N/A
12/17/2018	EURDKK	1:30:00 PM	7.4642	7.4653			N/A
12/17/2018	EURDKK	3:30:00 PM	7.4639	7.4644			N/A
12/17/2018	EURGBP	9:30:00 AM	0.89862	0.89868			N/A
12/17/2018	EURGBP	11:30:00 AM	0.89912	0.89901			N/A
12/17/2018	EURGBP	1:30:00 PM	0.89825	0.89818			N/A
12/17/2018	EURGBP	3:30:00 PM	0.89842	0.89843			N/A
12/17/2018	EURHKD	9:30:00 AM	8.8389	8.8435			N/A
12/17/2018	EURHKD	11:30:00 AM	8.8503	8.8549			N/A
12/17/2018	EURHKD	1:30:00 PM	8.8597	8.8648			N/A
12/17/2018	EURHKD	3:30:00 PM	8.8632	8.8669			N/A
12/17/2018	EURHUF	9:30:00 AM	323.11	323.74			N/A
12/17/2018	EURHUF	11:30:00 AM	323.13	323.87			N/A
12/17/2018	EURHUF	1:30:00 PM	322.92	323.54			N/A
12/17/2018	EURHUF	3:30:00 PM	322.92	323.59			N/A
12/17/2018	EURJPY	9:30:00 AM	128.336	128.333			N/A
12/17/2018	EURJPY	11:30:00 AM	128.447	128.448			N/A
12/17/2018	EURJPY	1:30:00 PM	128.459	128.462			N/A
12/17/2018	EURJPY	3:30:00 PM	128.424	128.407			N/A
12/17/2018	EURMXN	9:30:00 AM	22.7694	22.7836			N/A
12/17/2018	EURMXN	11:30:00 AM	22.799	22.8179			N/A
12/17/2018	EURMXN	1:30:00 PM	22.876	22.8895			N/A
12/17/2018	EURMXN	3:30:00 PM	22.8307	22.8439			N/A
12/17/2018	EURNOK	9:30:00 AM	9.7372	9.7478			N/A
12/17/2018	EURNOK	11:30:00 AM	9.7601	9.77			N/A
12/17/2018	EURNOK	1:30:00 PM	9.7607	9.7724			N/A
12/17/2018	EURNOK	3:30:00 PM	9.7857	9.7966			N/A
12/17/2018	EURNZD	9:30:00 AM	1.66334	1.66404			N/A
12/17/2018	EURNZD	11:30:00 AM	1.66236	1.66292			N/A
12/17/2018	EURNZD	1:30:00 PM	1.6651	1.66592			N/A
12/17/2018	EURNZD	3:30:00 PM	1.66646	1.66705			N/A
12/17/2018	EURPLN	9:30:00 AM	4.2905	4.2932			N/A
12/17/2018	EURPLN	11:30:00 AM	4.2886	4.2918			N/A
12/17/2018	EURPLN	1:30:00 PM	4.2871	4.2904			N/A

12/17/2018	EURPLN	3:30:00 PM	4.2805	4.2836			N/A
12/17/2018	EURRUR	9:30:00 AM					N/A
12/17/2018	EURRUR	11:30:00 AM	75.017	75.437			N/A
12/17/2018	EURRUR	1:30:00 PM	75.204	75.642			N/A
12/17/2018	EURRUR	3:30:00 PM	75.193	75.633			N/A
12/17/2018	EURSEK	9:30:00 AM	10.2437	10.2451			N/A
12/17/2018	EURSEK	11:30:00 AM	10.2833	10.2882			N/A
12/17/2018	EURSEK	1:30:00 PM	10.2572	10.2624			N/A
12/17/2018	EURSEK	3:30:00 PM	10.2813	10.2809			N/A
12/17/2018	EURSGD	9:30:00 AM	1.5552	1.556			N/A
12/17/2018	EURSGD	11:30:00 AM	1.5569	1.5576			N/A
12/17/2018	EURSGD	1:30:00 PM	1.5584	1.5592			N/A
12/17/2018	EURSGD	3:30:00 PM	1.5589	1.5595			N/A
12/17/2018	EURUSD	9:30:00 AM	1.13134	1.1314			N/A
12/17/2018	EURUSD	11:30:00 AM	1.13268	1.13273			N/A
12/17/2018	EURUSD	1:30:00 PM	1.13383	1.13393			N/A
12/17/2018	EURUSD	3:30:00 PM	1.13429	1.13418			N/A
12/17/2018	EURZAR	9:30:00 AM	16.2494	16.259			N/A
12/17/2018	EURZAR	11:30:00 AM	16.197	16.2082			N/A
12/17/2018	EURZAR	1:30:00 PM	16.267	16.2871			N/A
12/17/2018	EURZAR	3:30:00 PM	16.2773	16.2962			N/A
12/17/2018	GBPAUD	9:30:00 AM	1.75397	1.75471			N/A
12/17/2018	GBPAUD	11:30:00 AM	1.75477	1.75526			N/A
12/17/2018	GBPAUD	1:30:00 PM	1.75888	1.7595			N/A
12/17/2018	GBPAUD	3:30:00 PM	1.7585	1.7589			N/A
12/17/2018	GBPCAD	9:30:00 AM	1.68459	1.68542			N/A
12/17/2018	GBPCAD	11:30:00 AM	1.68542	1.68589			N/A
12/17/2018	GBPCAD	1:30:00 PM	1.68968	1.69024			N/A
12/17/2018	GBPCAD	3:30:00 PM	1.69078	1.69148			N/A
12/17/2018	GBPCHF	9:30:00 AM	1.25575	1.25617			N/A
12/17/2018	GBPCHF	11:30:00 AM	1.25564	1.25581			N/A
12/17/2018	GBPCHF	1:30:00 PM	1.25631	1.25634			N/A
12/17/2018	GBPCHF	3:30:00 PM	1.25303	1.2532			N/A
12/17/2018	GBPCZK	9:30:00 AM	28.658	28.679			N/A
12/17/2018	GBPCZK	11:30:00 AM	28.658	28.673			N/A
12/17/2018	GBPCZK	1:30:00 PM	28.694	28.709			N/A
12/17/2018	GBPCZK	3:30:00 PM	28.673	28.693			N/A
12/17/2018	GBPDKK	9:30:00 AM	8.303	8.313			N/A
12/17/2018	GBPDKK	11:30:00 AM	8.3	8.309			N/A
12/17/2018	GBPDKK	1:30:00 PM	8.308	8.317			N/A
12/17/2018	GBPDKK	3:30:00 PM	8.306	8.316			N/A
12/17/2018	GBPHKD	9:30:00 AM	9.833	9.8381			N/A
12/17/2018	GBPHKD	11:30:00 AM	9.8423	9.8459			N/A
12/17/2018	GBPHKD	1:30:00 PM	9.8623	9.8665			N/A
12/17/2018	GBPHKD	3:30:00 PM	9.8627	9.8666			N/A
12/17/2018	GBPHUF	9:30:00 AM	359.6	360.06			N/A
12/17/2018	GBPHUF	11:30:00 AM	359.47	359.86			N/A
12/17/2018	GBPHUF	1:30:00 PM	359.56	359.97			N/A
12/17/2018	GBPHUF	3:30:00 PM	359.47	359.73			N/A
12/17/2018	GBPJPY	9:30:00 AM	142.789	142.83			N/A

12/17/2018	GBPJPY	11:30:00 AM	142.861	142.875			N/A
12/17/2018	GBPJPY	1:30:00 PM	143.009	143.023			N/A
12/17/2018	GBPJPY	3:30:00 PM	142.924	142.943			N/A
12/17/2018	GBPMXN	9:30:00 AM	25.3335	25.3416			N/A
12/17/2018	GBPMXN	11:30:00 AM	25.3564	25.3667			N/A
12/17/2018	GBPMXN	1:30:00 PM	25.4678	25.4719			N/A
12/17/2018	GBPMXN	3:30:00 PM	25.4054	25.4141			N/A
12/17/2018	GBPNOK	9:30:00 AM	10.8366	10.8461			N/A
12/17/2018	GBPNOK	11:30:00 AM	10.858	10.867			N/A
12/17/2018	GBPNOK	1:30:00 PM	10.869	10.8786			N/A
12/17/2018	GBPNOK	3:30:00 PM	10.8931	10.9027			N/A
12/17/2018	GBPNZD	9:30:00 AM	1.85092	1.8517			N/A
12/17/2018	GBPNZD	11:30:00 AM	1.84911	1.84957			N/A
12/17/2018	GBPNZD	1:30:00 PM	1.85399	1.85462			N/A
12/17/2018	GBPNZD	3:30:00 PM	1.85489	1.85545			N/A
12/17/2018	GBPPLN	9:30:00 AM	4.7754	4.7766			N/A
12/17/2018	GBPPLN	11:30:00 AM	4.7715	4.7722			N/A
12/17/2018	GBPPLN	1:30:00 PM	4.7742	4.7754			N/A
12/17/2018	GBPPLN	3:30:00 PM	4.7655	4.7668			N/A
12/17/2018	GBPSEK	9:30:00 AM	11.3966	11.4023			N/A
12/17/2018	GBPSEK	11:30:00 AM	11.4376	11.4444			N/A
12/17/2018	GBPSEK	1:30:00 PM	11.4187	11.4266			N/A
12/17/2018	GBPSEK	3:30:00 PM	11.4419	11.4451			N/A
12/17/2018	GBPSGD	9:30:00 AM	1.7307	1.7315			N/A
12/17/2018	GBPSGD	11:30:00 AM	1.7319	1.7323			N/A
12/17/2018	GBPSGD	1:30:00 PM	1.7353	1.7356			N/A
12/17/2018	GBPSGD	3:30:00 PM	1.7352	1.7357			N/A
12/17/2018	GBPUSD	9:30:00 AM	1.25907	1.25916			N/A
12/17/2018	GBPUSD	11:30:00 AM	1.26018	1.25991			N/A
12/17/2018	GBPUSD	1:30:00 PM	1.26261	1.26245			N/A
12/17/2018	GBPUSD	3:30:00 PM	1.26274	1.26262			N/A
12/17/2018	GBPZAR	9:30:00 AM	18.0787	18.0961			N/A
12/17/2018	GBPZAR	11:30:00 AM	18.0148	18.03			N/A
12/17/2018	GBPZAR	1:30:00 PM	18.1086	18.1356			N/A
12/17/2018	GBPZAR	3:30:00 PM	18.1144	18.142			N/A
12/17/2018	GOLD	9:30:00 AM	1238.2	1238.58			N/A
12/17/2018	GOLD	11:30:00 AM	1238.04	1238.36			N/A
12/17/2018	GOLD	1:30:00 PM	1239.91	1240.36			N/A
12/17/2018	GOLD	3:30:00 PM	1240.06	1239.98			N/A
12/17/2018	HKDJPY	9:30:00 AM	14.52	14.53			N/A
12/17/2018	HKDJPY	11:30:00 AM	14.51	14.52			N/A
12/17/2018	HKDJPY	1:30:00 PM	14.5	14.51			N/A
12/17/2018	HKDJPY	3:30:00 PM	14.48	14.49			N/A
12/17/2018	HUFJPY	9:30:00 AM	0.397	0.3973			N/A
12/17/2018	HUFJPY	11:30:00 AM	0.3972	0.3975			N/A
12/17/2018	HUFJPY	1:30:00 PM					N/A
12/17/2018	HUFJPY	3:30:00 PM	0.3975	0.3979			N/A
12/17/2018	MXNJPY	9:30:00 AM	5.64	5.64			N/A
12/17/2018	MXNJPY	11:30:00 AM					N/A
12/17/2018	MXNJPY	1:30:00 PM	5.62	5.63			N/A

12/17/2018	MXNJPY	3:30:00 PM	5.62	5.63			N/A
12/17/2018	NOKJPY	9:30:00 AM	13.16	13.19			N/A
12/17/2018	NOKJPY	11:30:00 AM	13.14	13.18			N/A
12/17/2018	NOKJPY	1:30:00 PM					N/A
12/17/2018	NOKJPY	3:30:00 PM	13.1	13.13			N/A
12/17/2018	NZDCAD	9:30:00 AM	0.90982	0.9105			N/A
12/17/2018	NZDCAD	11:30:00 AM	0.9112	0.91178			N/A
12/17/2018	NZDCAD	1:30:00 PM	0.91099	0.91175			N/A
12/17/2018	NZDCAD	3:30:00 PM	0.91123	0.91194			N/A
12/17/2018	NZDCHF	9:30:00 AM	0.67809	0.67877			N/A
12/17/2018	NZDCHF	11:30:00 AM	0.67871	0.67933			N/A
12/17/2018	NZDCHF	1:30:00 PM	0.6772	0.67785			N/A
12/17/2018	NZDCHF	3:30:00 PM	0.67519	0.67581			N/A
12/17/2018	NZDCZK	9:30:00 AM	15.48	15.49			N/A
12/17/2018	NZDCZK	11:30:00 AM	15.494	15.506			N/A
12/17/2018	NZDCZK	1:30:00 PM	15.472	15.482			N/A
12/17/2018	NZDCZK	3:30:00 PM	15.455	15.466			N/A
12/17/2018	NZDDKK	9:30:00 AM	4.485	4.489			N/A
12/17/2018	NZDDKK	11:30:00 AM	4.488	4.491			N/A
12/17/2018	NZDDKK	1:30:00 PM					N/A
12/17/2018	NZDDKK	3:30:00 PM	4.477	4.48			N/A
12/17/2018	NZDHKD	9:30:00 AM	5.3107	5.313			N/A
12/17/2018	NZDHKD	11:30:00 AM	5.3209	5.3237			N/A
12/17/2018	NZDHKD	1:30:00 PM	5.3178	5.3207			N/A
12/17/2018	NZDHKD	3:30:00 PM	5.3155	5.3173			N/A
12/17/2018	NZDHUF	9:30:00 AM	194.21	194.49			N/A
12/17/2018	NZDHUF	11:30:00 AM	194.33	194.61			N/A
12/17/2018	NZDHUF	1:30:00 PM	193.87	194.16			N/A
12/17/2018	NZDHUF	3:30:00 PM	193.73	193.91			N/A
12/17/2018	NZDJPY	9:30:00 AM	77.104	77.174			N/A
12/17/2018	NZDJPY	11:30:00 AM	77.222	77.289			N/A
12/17/2018	NZDJPY	1:30:00 PM	77.093	77.164			N/A
12/17/2018	NZDJPY	3:30:00 PM	77.02	77.073			N/A
12/17/2018	NZDMXN	9:30:00 AM	13.6836	13.6854			N/A
12/17/2018	NZDMXN	11:30:00 AM	13.71	13.7157			N/A
12/17/2018	NZDMXN	1:30:00 PM	13.7338	13.7358			N/A
12/17/2018	NZDMXN	3:30:00 PM	13.6934	13.696			N/A
12/17/2018	NZDNOK	9:30:00 AM	5.8526	5.8549			N/A
12/17/2018	NZDNOK	11:30:00 AM	5.8703	5.8735			N/A
12/17/2018	NZDNOK	1:30:00 PM	5.8603	5.8642			N/A
12/17/2018	NZDNOK	3:30:00 PM	5.87	5.8717			N/A
12/17/2018	NZDPLN	9:30:00 AM	2.5781	2.5794			N/A
12/17/2018	NZDPLN	11:30:00 AM	2.5786	2.5801			N/A
12/17/2018	NZDPLN	1:30:00 PM	2.574	2.5752			N/A
12/17/2018	NZDPLN	3:30:00 PM	2.5675	2.5688			N/A
12/17/2018	NZDSEK	9:30:00 AM	6.1528	6.1576			N/A
12/17/2018	NZDSEK	11:30:00 AM	6.1809	6.1873			N/A
12/17/2018	NZDSEK	1:30:00 PM	6.1553	6.1621			N/A
12/17/2018	NZDSEK	3:30:00 PM	6.1638	6.169			N/A
12/17/2018	NZDSGD	9:30:00 AM	0.9348	0.9353			N/A

12/17/2018	NZDSGD	11:30:00 AM	0.9364	0.9369			N/A
12/17/2018	NZDSGD	1:30:00 PM	0.9356	0.9359			N/A
12/17/2018	NZDSGD	3:30:00 PM	0.9353	0.9358			N/A
12/17/2018	NZDUSD	9:30:00 AM	0.68002	0.68011			N/A
12/17/2018	NZDUSD	11:30:00 AM	0.68131	0.68137			N/A
12/17/2018	NZDUSD	1:30:00 PM	0.68076	0.68092			N/A
12/17/2018	NZDUSD	3:30:00 PM	0.68055	0.68063			N/A
12/17/2018	NZDZAR	9:30:00 AM	9.7581	9.7679			N/A
12/17/2018	NZDZAR	11:30:00 AM	9.7343	9.745			N/A
12/17/2018	NZDZAR	1:30:00 PM	9.7591	9.777			N/A
12/17/2018	NZDZAR	3:30:00 PM	9.7575	9.7723			N/A
12/17/2018	SEKJPY	9:30:00 AM	12.53	12.54			N/A
12/17/2018	SEKJPY	11:30:00 AM	12.49	12.5			N/A
12/17/2018	SEKJPY	1:30:00 PM					N/A
12/17/2018	SEKJPY	3:30:00 PM	12.49	12.5			N/A
12/17/2018	SGDJPY	9:30:00 AM	82.51	82.5			N/A
12/17/2018	SGDJPY	11:30:00 AM	82.46	82.48			N/A
12/17/2018	SGDJPY	1:30:00 PM	82.38	82.41			N/A
12/17/2018	SGDJPY	3:30:00 PM	82.37	82.35			N/A
12/17/2018	SILVER	9:30:00 AM	14.41	14.79			N/A
12/17/2018	SILVER	11:30:00 AM	14.42	14.8			N/A
12/17/2018	SILVER	1:30:00 PM	14.43	14.81			N/A
12/17/2018	SILVER	3:30:00 PM	14.41	14.79			N/A
12/17/2018	USDCAD	9:30:00 AM	1.3382	1.3383			N/A
12/17/2018	USDCAD	11:30:00 AM	1.33771	1.33784			N/A
12/17/2018	USDCAD	1:30:00 PM	1.33846	1.33862			N/A
12/17/2018	USDCAD	3:30:00 PM	1.33936	1.33937			N/A
12/17/2018	USDCHF	9:30:00 AM	0.99745	0.99755			N/A
12/17/2018	USDCHF	11:30:00 AM	0.99647	0.99645			N/A
12/17/2018	USDCHF	1:30:00 PM	0.99505	0.99506			N/A
12/17/2018	USDCHF	3:30:00 PM	0.99256	0.99243			N/A
12/17/2018	USDCZK	9:30:00 AM	22.778	22.799			N/A
12/17/2018	USDCZK	11:30:00 AM	22.758	22.779			N/A
12/17/2018	USDCZK	1:30:00 PM	22.74	22.76			N/A
12/17/2018	USDCZK	3:30:00 PM	22.727	22.746			N/A
12/17/2018	USDDKK	9:30:00 AM	6.5978	6.6005			N/A
12/17/2018	USDDKK	11:30:00 AM	6.589	6.5926			N/A
12/17/2018	USDDKK	1:30:00 PM	6.5825	6.5861			N/A
12/17/2018	USDDKK	3:30:00 PM	6.582	6.5837			N/A
12/17/2018	USDHKD	9:30:00 AM	7.8134	7.8135			N/A
12/17/2018	USDHKD	11:30:00 AM	7.8141	7.8144			N/A
12/17/2018	USDHKD	1:30:00 PM	7.8145	7.8148			N/A
12/17/2018	USDHKD	3:30:00 PM	7.8145	7.8148			N/A
12/17/2018	USDHUF	9:30:00 AM	285.69	286.15			N/A
12/17/2018	USDHUF	11:30:00 AM	285.33	285.79			N/A
12/17/2018	USDHUF	1:30:00 PM	284.84	285.31			N/A
12/17/2018	USDHUF	3:30:00 PM	284.79	285.21			N/A
12/17/2018	USDJPY	9:30:00 AM	113.42	113.423			N/A
12/17/2018	USDJPY	11:30:00 AM	113.375	113.387			N/A
12/17/2018	USDJPY	1:30:00 PM	113.27	113.284			N/A

12/17/2018	USDJPY	3:30:00 PM	113.215	113.185			N/A
12/17/2018	USDMXN	9:30:00 AM	20.129	20.131			N/A
12/17/2018	USDMXN	11:30:00 AM	20.129	20.136			N/A
12/17/2018	USDMXN	1:30:00 PM	20.178	20.179			N/A
12/17/2018	USDMXN	3:30:00 PM	20.129	20.132			N/A
12/17/2018	USDNOK	9:30:00 AM	8.6074	8.614			N/A
12/17/2018	USDNOK	11:30:00 AM	8.6172	8.624			N/A
12/17/2018	USDNOK	1:30:00 PM	8.6087	8.6168			N/A
12/17/2018	USDNOK	3:30:00 PM	8.6288	8.6351			N/A
12/17/2018	USDPLN	9:30:00 AM	3.7925	3.7934			N/A
12/17/2018	USDPLN	11:30:00 AM	3.7864	3.7876			N/A
12/17/2018	USDPLN	1:30:00 PM	3.7811	3.7826			N/A
12/17/2018	USDPLN	3:30:00 PM	3.7741	3.7752			N/A
12/17/2018	USDRUR	9:30:00 AM					N/A
12/17/2018	USDRUR	11:30:00 AM	66.289	66.659			N/A
12/17/2018	USDRUR	1:30:00 PM	66.383	66.773			N/A
12/17/2018	USDRUR	3:30:00 PM	66.358	66.74			N/A
12/17/2018	USDSEK	9:30:00 AM	9.0523	9.0537			N/A
12/17/2018	USDSEK	11:30:00 AM	9.0771	9.0809			N/A
12/17/2018	USDSEK	1:30:00 PM	9.0446	9.0491			N/A
12/17/2018	USDSEK	3:30:00 PM	9.0635	9.0627			N/A
12/17/2018	USDSGD	9:30:00 AM	1.3746	1.375			N/A
12/17/2018	USDSGD	11:30:00 AM	1.3744	1.3747			N/A
12/17/2018	USDSGD	1:30:00 PM	1.3744	1.3748			N/A
12/17/2018	USDSGD	3:30:00 PM	1.3743	1.3745			N/A
12/17/2018	USDZAR	9:30:00 AM	14.3606	14.3684			N/A
12/17/2018	USDZAR	11:30:00 AM	14.2975	14.3077			N/A
12/17/2018	USDZAR	1:30:00 PM	14.3438	14.3626			N/A
12/17/2018	USDZAR	3:30:00 PM	14.3491	14.3663			N/A
12/17/2018	XAUUSD	9:30:00 AM	1238.21	1238.43			N/A
12/17/2018	XAUUSD	11:30:00 AM	1238.03	1238.17			N/A
12/17/2018	XAUUSD	1:30:00 PM	1239.9	1240.18			N/A
12/17/2018	XAUUSD	3:30:00 PM	1240.06	1239.86			N/A
12/17/2018	ZARJPY	9:30:00 AM	7.88	7.89			N/A
12/17/2018	ZARJPY	11:30:00 AM	7.91	7.94			N/A
12/17/2018	ZARJPY	1:30:00 PM					N/A
12/17/2018	ZARJPY	3:30:00 PM	7.86	7.89			N/A
12/18/2018	#AA	9:30:00 AM					N/A
12/18/2018	#AA	11:30:00 AM					N/A
12/18/2018	#AA	1:30:00 PM					N/A
12/18/2018	#AA	3:30:00 PM					N/A
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12/18/2018	#AAPL	9:30:00 AM					N/A

12/18/2018	#AAPL	11:30:00 AM					N/A
12/18/2018	#AAPL	1:30:00 PM					N/A
12/18/2018	#AAPL	3:30:00 PM					N/A
12/18/2018	#ADBE	9:30:00 AM					N/A
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12/18/2018	#AMD	11:30:00 AM					N/A
12/18/2018	#AMD	1:30:00 PM					N/A
12/18/2018	#AMD	3:30:00 PM					N/A
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12/18/2018	#BA	11:30:00 AM					N/A
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12/18/2018	#BA	3:30:00 PM					N/A
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12/18/2018	#BABA	11:30:00 AM					N/A
12/18/2018	#BABA	1:30:00 PM					N/A
12/18/2018	#BABA	3:30:00 PM					N/A
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12/18/2018	#BARC	3:30:00 PM					N/A
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12/18/2018	#BHP	3:30:00 PM					N/A
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12/18/2018	#BIDU	1:30:00 PM					N/A
12/18/2018	#BIDU	3:30:00 PM					N/A
12/18/2018	#BK	9:30:00 AM					N/A
12/18/2018	#BK	11:30:00 AM					N/A
12/18/2018	#BK	1:30:00 PM					N/A

12/18/2018	#BK	3:30:00 PM					N/A
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12/18/2018	#BLT	11:30:00 AM					N/A
12/18/2018	#BLT	1:30:00 PM					N/A
12/18/2018	#BLT	3:30:00 PM					N/A
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12/18/2018	#BP	11:30:00 AM					N/A
12/18/2018	#BP	1:30:00 PM					N/A
12/18/2018	#BP	3:30:00 PM					N/A
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12/18/2018	#BTA	11:30:00 AM					N/A
12/18/2018	#BTA	1:30:00 PM					N/A
12/18/2018	#BTA	3:30:00 PM					N/A
12/18/2018	#C	9:30:00 AM					N/A
12/18/2018	#C	11:30:00 AM					N/A
12/18/2018	#C	1:30:00 PM					N/A
12/18/2018	#C	3:30:00 PM					N/A
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12/18/2018	#CAT	11:30:00 AM					N/A
12/18/2018	#CAT	1:30:00 PM					N/A
12/18/2018	#CAT	3:30:00 PM					N/A
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12/18/2018	#CHL	11:30:00 AM					N/A
12/18/2018	#CHL	1:30:00 PM					N/A
12/18/2018	#CHL	3:30:00 PM					N/A
12/18/2018	#CMCSA	9:30:00 AM					N/A
12/18/2018	#CMCSA	11:30:00 AM					N/A
12/18/2018	#CMCSA	1:30:00 PM					N/A
12/18/2018	#CMCSA	3:30:00 PM					N/A
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12/18/2018	#CSCO	11:30:00 AM					N/A
12/18/2018	#CSCO	1:30:00 PM					N/A
12/18/2018	#CSCO	3:30:00 PM					N/A
12/18/2018	#CVX	9:30:00 AM					N/A
12/18/2018	#CVX	11:30:00 AM					N/A
12/18/2018	#CVX	1:30:00 PM					N/A
12/18/2018	#CVX	3:30:00 PM					N/A
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12/18/2018	#DD	1:30:00 PM					N/A
12/18/2018	#DD	3:30:00 PM					N/A
12/18/2018	#DIS	9:30:00 AM					N/A
12/18/2018	#DIS	11:30:00 AM					N/A
12/18/2018	#DIS	1:30:00 PM					N/A
12/18/2018	#DIS	3:30:00 PM					N/A
12/18/2018	#DWDP	9:30:00 AM					N/A
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12/18/2018	AUDCZK	11:30:00 AM	16.272	16.288			N/A
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12/18/2018	AUDDKK	9:30:00 AM	4.7268	4.7314			N/A
12/18/2018	AUDDKK	11:30:00 AM	4.7194	4.7234			N/A
12/18/2018	AUDDKK	1:30:00 PM	4.714	4.7176			N/A
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12/18/2018	AUDHKD	9:30:00 AM	5.612	5.6159			N/A
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12/18/2018	AUDHKD	3:30:00 PM	5.6232	5.6264			N/A
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12/18/2018	AUDHUF	11:30:00 AM	204.3	204.5			N/A
12/18/2018	AUDHUF	1:30:00 PM	203.84	204			N/A
12/18/2018	AUDHUF	3:30:00 PM	204.11	204.22			N/A
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12/18/2018	AUDNOK	11:30:00 AM	6.2454	6.2489			N/A
12/18/2018	AUDNOK	1:30:00 PM	6.2427	6.2467			N/A
12/18/2018	AUDNOK	3:30:00 PM	6.2497	6.2541			N/A
12/18/2018	AUDNZD	9:30:00 AM	1.04713	1.04792			N/A
12/18/2018	AUDNZD	11:30:00 AM	1.04669	1.04752			N/A
12/18/2018	AUDNZD	1:30:00 PM	1.047	1.04793			N/A
12/18/2018	AUDNZD	3:30:00 PM	1.04664	1.04746			N/A
12/18/2018	AUDPLN	9:30:00 AM	2.7122	2.7154			N/A
12/18/2018	AUDPLN	11:30:00 AM	2.7087	2.7114			N/A
12/18/2018	AUDPLN	1:30:00 PM	2.7049	2.7077			N/A
12/18/2018	AUDPLN	3:30:00 PM	2.7089	2.7112			N/A
12/18/2018	AUDSEK	9:30:00 AM	6.5235	6.5251			N/A
12/18/2018	AUDSEK	11:30:00 AM	6.4933	6.4953			N/A
12/18/2018	AUDSEK	1:30:00 PM	6.4996	6.5012			N/A

12/18/2018	AUDSEK	3:30:00 PM	6.5038	6.5063			N/A
12/18/2018	AUDSGD	9:30:00 AM	0.985	0.9853			N/A
12/18/2018	AUDSGD	11:30:00 AM	0.986	0.9862			N/A
12/18/2018	AUDSGD	1:30:00 PM	0.9862	0.9863			N/A
12/18/2018	AUDSGD	3:30:00 PM	0.9859	0.9859			N/A
12/18/2018	AUDUSD	9:30:00 AM	0.71833	0.71844			N/A
12/18/2018	AUDUSD	11:30:00 AM	0.71901	0.71906			N/A
12/18/2018	AUDUSD	1:30:00 PM	0.71978	0.71985			N/A
12/18/2018	AUDUSD	3:30:00 PM	0.71943	0.7194			N/A
12/18/2018	AUDZAR	9:30:00 AM	10.287	10.2984			N/A
12/18/2018	AUDZAR	11:30:00 AM	10.2898	10.3041			N/A
12/18/2018	AUDZAR	1:30:00 PM	10.2767	10.2902			N/A
12/18/2018	AUDZAR	3:30:00 PM	10.3223	10.3298			N/A
12/18/2018	CADCHF	9:30:00 AM	0.74072	0.7414			N/A
12/18/2018	CADCHF	11:30:00 AM	0.73892	0.73959			N/A
12/18/2018	CADCHF	1:30:00 PM	0.7388	0.73945			N/A
12/18/2018	CADCHF	3:30:00 PM	0.73947	0.73993			N/A
12/18/2018	CADCZK	9:30:00 AM	16.929	16.946			N/A
12/18/2018	CADCZK	11:30:00 AM	16.883	16.898			N/A
12/18/2018	CADCZK	1:30:00 PM	16.848	16.863			N/A
12/18/2018	CADCZK	3:30:00 PM	16.879	16.891			N/A
12/18/2018	CADDKK	9:30:00 AM					N/A
12/18/2018	CADDKK	11:30:00 AM	4.896	4.9			N/A
12/18/2018	CADDKK	1:30:00 PM					N/A
12/18/2018	CADDKK	3:30:00 PM	4.896	4.899			N/A
12/18/2018	CADHKD	9:30:00 AM	5.8301	5.8336			N/A
12/18/2018	CADHKD	11:30:00 AM	5.831	5.8347			N/A
12/18/2018	CADHKD	1:30:00 PM	5.834	5.8379			N/A
12/18/2018	CADHKD	3:30:00 PM	5.8329	5.8358			N/A
12/18/2018	CADHUF	9:30:00 AM	212.57	212.73			N/A
12/18/2018	CADHUF	11:30:00 AM	212.02	212.11			N/A
12/18/2018	CADHUF	1:30:00 PM	211.4	211.52			N/A
12/18/2018	CADHUF	3:30:00 PM	211.75	211.76			N/A
12/18/2018	CADJPY	9:30:00 AM	83.965	84.028			N/A
12/18/2018	CADJPY	11:30:00 AM	83.751	83.807			N/A
12/18/2018	CADJPY	1:30:00 PM	83.755	83.822			N/A
12/18/2018	CADJPY	3:30:00 PM	83.83	83.88			N/A
12/18/2018	CADMXN	9:30:00 AM	14.9888	14.9988			N/A
12/18/2018	CADMXN	11:30:00 AM	14.9942	14.9964			N/A
12/18/2018	CADMXN	1:30:00 PM	14.9569	14.9683			N/A
12/18/2018	CADMXN	3:30:00 PM	14.9716	14.9809			N/A
12/18/2018	CADNOK	9:30:00 AM	6.4603	6.4622			N/A
12/18/2018	CADNOK	11:30:00 AM	6.4775	6.4813			N/A
12/18/2018	CADNOK	1:30:00 PM	6.4714	6.4762			N/A
12/18/2018	CADNOK	3:30:00 PM	6.4805	6.4821			N/A
12/18/2018	CADPLN	9:30:00 AM	2.8176	2.8195			N/A
12/18/2018	CADPLN	11:30:00 AM	2.8107	2.8121			N/A
12/18/2018	CADPLN	1:30:00 PM	2.8043	2.8061			N/A
12/18/2018	CADPLN	3:30:00 PM	2.8093	2.8104			N/A
12/18/2018	CADSEK	9:30:00 AM	6.7751	6.7765			N/A

12/18/2018	CADSEK	11:30:00 AM	6.7348	6.737			N/A
12/18/2018	CADSEK	1:30:00 PM	6.7372	6.7411			N/A
12/18/2018	CADSEK	3:30:00 PM	6.7434	6.7462			N/A
12/18/2018	CADSGD	9:30:00 AM	1.0226	1.0229			N/A
12/18/2018	CADSGD	11:30:00 AM	1.022	1.0223			N/A
12/18/2018	CADSGD	1:30:00 PM	1.0217	1.022			N/A
12/18/2018	CADSGD	3:30:00 PM	1.0217	1.0221			N/A
12/18/2018	CADZAR	9:30:00 AM	10.6856	10.6997			N/A
12/18/2018	CADZAR	11:30:00 AM	10.6755	10.6912			N/A
12/18/2018	CADZAR	1:30:00 PM	10.6551	10.673			N/A
12/18/2018	CADZAR	3:30:00 PM	10.7062	10.715			N/A
12/18/2018	CHFCZK	9:30:00 AM	22.851	22.865			N/A
12/18/2018	CHFCZK	11:30:00 AM	22.843	22.858			N/A
12/18/2018	CHFCZK	1:30:00 PM	22.798	22.815			N/A
12/18/2018	CHFCZK	3:30:00 PM	22.823	22.836			N/A
12/18/2018	CHFDKK	9:30:00 AM	6.627	6.63			N/A
12/18/2018	CHFDKK	11:30:00 AM	6.624	6.626			N/A
12/18/2018	CHFDKK	1:30:00 PM	6.612	6.616			N/A
12/18/2018	CHFDKK	3:30:00 PM	6.62	6.622			N/A
12/18/2018	CHFHKD	9:30:00 AM	7.8681	7.8719			N/A
12/18/2018	CHFHKD	11:30:00 AM	7.8884	7.8917			N/A
12/18/2018	CHFHKD	1:30:00 PM	7.8948	7.8982			N/A
12/18/2018	CHFHKD	3:30:00 PM	7.8875	7.8875			N/A
12/18/2018	CHFHUF	9:30:00 AM	286.77	287.16			N/A
12/18/2018	CHFHUF	11:30:00 AM	286.71	287.04			N/A
12/18/2018	CHFHUF	1:30:00 PM	285.93	286.29			N/A
12/18/2018	CHFHUF	3:30:00 PM	286.17	286.44			N/A
12/18/2018	CHFJPY	9:30:00 AM	113.308	113.38			N/A
12/18/2018	CHFJPY	11:30:00 AM	113.298	113.357			N/A
12/18/2018	CHFJPY	1:30:00 PM	113.332	113.395			N/A
12/18/2018	CHFJPY	3:30:00 PM	113.35	113.387			N/A
12/18/2018	CHFMXN	9:30:00 AM	20.2281	20.239			N/A
12/18/2018	CHFMXN	11:30:00 AM	20.2827	20.2877			N/A
12/18/2018	CHFMXN	1:30:00 PM	20.2368	20.2523			N/A
12/18/2018	CHFMXN	3:30:00 PM	20.2441	20.2523			N/A
12/18/2018	CHFNOK	9:30:00 AM	8.7177	8.7225			N/A
12/18/2018	CHFNOK	11:30:00 AM	8.7633	8.7689			N/A
12/18/2018	CHFNOK	1:30:00 PM	8.7559	8.7632			N/A
12/18/2018	CHFNOK	3:30:00 PM	8.7621	8.7679			N/A
12/18/2018	CHFPLN	9:30:00 AM	3.8022	3.8051			N/A
12/18/2018	CHFPLN	11:30:00 AM	3.8018	3.8039			N/A
12/18/2018	CHFPLN	1:30:00 PM	3.7946	3.7976			N/A
12/18/2018	CHFPLN	3:30:00 PM	3.798	3.8007			N/A
12/18/2018	CHFSEK	9:30:00 AM	9.1425	9.1452			N/A
12/18/2018	CHFSEK	11:30:00 AM	9.1101	9.1138			N/A
12/18/2018	CHFSEK	1:30:00 PM	9.1154	9.1202			N/A
12/18/2018	CHFSEK	3:30:00 PM	9.1176	9.1213			N/A
12/18/2018	CHFSGD	9:30:00 AM	1.3806	1.381			N/A
12/18/2018	CHFSGD	11:30:00 AM	1.3835	1.3839			N/A
12/18/2018	CHFSGD	1:30:00 PM	1.3833	1.3836			N/A

12/18/2018	CHFSGD	3:30:00 PM	1.3825	1.3821			N/A
12/18/2018	CHFZAR	9:30:00 AM	14.4251	14.4339			N/A
12/18/2018	CHFZAR	11:30:00 AM	14.4455	14.4595			N/A
12/18/2018	CHFZAR	1:30:00 PM	14.4207	14.4352			N/A
12/18/2018	CHFZAR	3:30:00 PM	14.4768	14.4829			N/A
12/18/2018	CZKJPY	9:30:00 AM	4.958	4.962			N/A
12/18/2018	CZKJPY	11:30:00 AM					N/A
12/18/2018	CZKJPY	1:30:00 PM					N/A
12/18/2018	CZKJPY	3:30:00 PM	4.965	4.969			N/A
12/18/2018	DKKJPY	9:30:00 AM					N/A
12/18/2018	DKKJPY	11:30:00 AM					N/A
12/18/2018	DKKJPY	1:30:00 PM					N/A
12/18/2018	DKKJPY	3:30:00 PM	17.13	17.14			N/A
12/18/2018	EURAUD	9:30:00 AM	1.57824	1.57864			N/A
12/18/2018	EURAUD	11:30:00 AM	1.58087	1.58109			N/A
12/18/2018	EURAUD	1:30:00 PM	1.58285	1.58288			N/A
12/18/2018	EURAUD	3:30:00 PM	1.58058	1.58078			N/A
12/18/2018	EURCAD	9:30:00 AM	1.5199	1.52062			N/A
12/18/2018	EURCAD	11:30:00 AM	1.52448	1.52491			N/A
12/18/2018	EURCAD	1:30:00 PM	1.52698	1.5276			N/A
12/18/2018	EURCAD	3:30:00 PM	1.52449	1.52501			N/A
12/18/2018	EURCHF	9:30:00 AM	1.12653	1.12668			N/A
12/18/2018	EURCHF	11:30:00 AM	1.12718	1.12707			N/A
12/18/2018	EURCHF	1:30:00 PM	1.12881	1.12888			N/A
12/18/2018	EURCHF	3:30:00 PM	1.12794	1.12785			N/A
12/18/2018	EURCZK	9:30:00 AM	25.729	25.765			N/A
12/18/2018	EURCZK	11:30:00 AM	25.733	25.77			N/A
12/18/2018	EURCZK	1:30:00 PM	25.722	25.761			N/A
12/18/2018	EURCZK	3:30:00 PM	25.725	25.762			N/A
12/18/2018	EURDKK	9:30:00 AM	7.466	7.4671			N/A
12/18/2018	EURDKK	11:30:00 AM	7.4662	7.4672			N/A
12/18/2018	EURDKK	1:30:00 PM	7.4664	7.4675			N/A
12/18/2018	EURDKK	3:30:00 PM	7.4668	7.468			N/A
12/18/2018	EURGBP	9:30:00 AM	0.89882	0.89863			N/A
12/18/2018	EURGBP	11:30:00 AM	0.89941	0.89931			N/A
12/18/2018	EURGBP	1:30:00 PM	0.89854	0.89813			N/A
12/18/2018	EURGBP	3:30:00 PM	0.8971	0.89717			N/A
12/18/2018	EURHKD	9:30:00 AM	8.8646	8.8697			N/A
12/18/2018	EURHKD	11:30:00 AM	8.8921	8.8961			N/A
12/18/2018	EURHKD	1:30:00 PM	8.9124	8.9163			N/A
12/18/2018	EURHKD	3:30:00 PM	8.8953	8.897			N/A
12/18/2018	EURHUF	9:30:00 AM	323.02	323.73			N/A
12/18/2018	EURHUF	11:30:00 AM	323.09	323.79			N/A
12/18/2018	EURHUF	1:30:00 PM	322.69	323.41			N/A
12/18/2018	EURHUF	3:30:00 PM	322.7	323.42			N/A
12/18/2018	EURJPY	9:30:00 AM	127.69	127.697	10	10	N/A
12/18/2018	EURJPY	11:30:00 AM	127.751	127.735			N/A
12/18/2018	EURJPY	1:30:00 PM	127.974	127.964			N/A
12/18/2018	EURJPY	3:30:00 PM	127.867	127.86			N/A
12/18/2018	EURMXN	9:30:00 AM	22.7913	22.8044			N/A

12/18/2018	EURMXN	11:30:00 AM	22.8623	22.8723			N/A
12/18/2018	EURMXN	1:30:00 PM	22.8464	22.8637			N/A
12/18/2018	EURMXN	3:30:00 PM	22.8345	22.8456			N/A
12/18/2018	EURNOK	9:30:00 AM	9.8197	9.8282			N/A
12/18/2018	EURNOK	11:30:00 AM	9.876	9.8846			N/A
12/18/2018	EURNOK	1:30:00 PM	9.8824	9.8936			N/A
12/18/2018	EURNOK	3:30:00 PM	9.8801	9.892			N/A
12/18/2018	EURNZD	9:30:00 AM	1.65379	1.65435			N/A
12/18/2018	EURNZD	11:30:00 AM	1.65576	1.65638			N/A
12/18/2018	EURNZD	1:30:00 PM	1.65837	1.65884			N/A
12/18/2018	EURNZD	3:30:00 PM	1.65531	1.65603			N/A
12/18/2018	EURPLN	9:30:00 AM	4.2836	4.2866			N/A
12/18/2018	EURPLN	11:30:00 AM	4.2848	4.2877			N/A
12/18/2018	EURPLN	1:30:00 PM	4.2835	4.2867			N/A
12/18/2018	EURPLN	3:30:00 PM	4.2841	4.2866			N/A
12/18/2018	EURRUR	9:30:00 AM					N/A
12/18/2018	EURRUR	11:30:00 AM	75.708	76.128			N/A
12/18/2018	EURRUR	1:30:00 PM	75.872	76.295			N/A
12/18/2018	EURRUR	3:30:00 PM	75.886	76.305			N/A
12/18/2018	EURSEK	9:30:00 AM	10.301	10.3034			N/A
12/18/2018	EURSEK	11:30:00 AM	10.2695	10.2732			N/A
12/18/2018	EURSEK	1:30:00 PM	10.2903	10.2953			N/A
12/18/2018	EURSEK	3:30:00 PM	10.2847	10.2883			N/A
12/18/2018	EURSGD	9:30:00 AM	1.5552	1.556			N/A
12/18/2018	EURSGD	11:30:00 AM	1.5594	1.5598			N/A
12/18/2018	EURSGD	1:30:00 PM	1.5614	1.562			N/A
12/18/2018	EURSGD	3:30:00 PM	1.5589	1.5591			N/A
12/18/2018	EURUSD	9:30:00 AM	1.13416	1.13424			N/A
12/18/2018	EURUSD	11:30:00 AM	1.13711	1.13706			N/A
12/18/2018	EURUSD	1:30:00 PM	1.1397	1.13962			N/A
12/18/2018	EURUSD	3:30:00 PM	1.13761	1.13726			N/A
12/18/2018	EURZAR	9:30:00 AM	16.2536	16.2674			N/A
12/18/2018	EURZAR	11:30:00 AM	16.286	16.3037			N/A
12/18/2018	EURZAR	1:30:00 PM	16.2815	16.2995			N/A
12/18/2018	EURZAR	3:30:00 PM	16.3314	16.3444			N/A
12/18/2018	GBPAUD	9:30:00 AM	1.75681	1.75711			N/A
12/18/2018	GBPAUD	11:30:00 AM	1.75835	1.75882			N/A
12/18/2018	GBPAUD	1:30:00 PM	1.76295	1.76235			N/A
12/18/2018	GBPAUD	3:30:00 PM	1.76243	1.76299			N/A
12/18/2018	GBPCAD	9:30:00 AM	1.69136	1.69178			N/A
12/18/2018	GBPCAD	11:30:00 AM	1.69509	1.69558			N/A
12/18/2018	GBPCAD	1:30:00 PM	1.70035	1.69993			N/A
12/18/2018	GBPCAD	3:30:00 PM	1.69937	1.7			N/A
12/18/2018	GBPCHF	9:30:00 AM	1.25355	1.25356			N/A
12/18/2018	GBPCHF	11:30:00 AM	1.25319	1.25339			N/A
12/18/2018	GBPCHF	1:30:00 PM	1.25679	1.25647			N/A
12/18/2018	GBPCHF	3:30:00 PM	1.25718	1.25729			N/A
12/18/2018	GBPCZK	9:30:00 AM	28.639	28.658			N/A
12/18/2018	GBPCZK	11:30:00 AM	28.623	28.641			N/A
12/18/2018	GBPCZK	1:30:00 PM	28.65	28.657			N/A

12/18/2018	GBPCZK	3:30:00 PM	28.687	28.703			N/A
12/18/2018	GBPDKK	9:30:00 AM	8.306	8.314			N/A
12/18/2018	GBPDKK	11:30:00 AM	8.299	8.308			N/A
12/18/2018	GBPDKK	1:30:00 PM	8.31	8.316			N/A
12/18/2018	GBPDKK	3:30:00 PM	8.32	8.33			N/A
12/18/2018	GBPHKD	9:30:00 AM	9.8628	9.8652			N/A
12/18/2018	GBPHKD	11:30:00 AM	9.8848	9.8887			N/A
12/18/2018	GBPHKD	1:30:00 PM	9.9201	9.9201			N/A
12/18/2018	GBPHKD	3:30:00 PM	9.9133	9.916			N/A
12/18/2018	GBPHUF	9:30:00 AM	359.45	359.85			N/A
12/18/2018	GBPHUF	11:30:00 AM	359.31	359.65			N/A
12/18/2018	GBPHUF	1:30:00 PM	359.32	359.61			N/A
12/18/2018	GBPHUF	3:30:00 PM	359.75	359.99			N/A
12/18/2018	GBPJPY	9:30:00 AM	142.09	142.08			N/A
12/18/2018	GBPJPY	11:30:00 AM	142.03	142.028		5300	N/A
12/18/2018	GBPJPY	1:30:00 PM	142.475	142.428			N/A
12/18/2018	GBPJPY	3:30:00 PM	142.523	142.535			N/A
12/18/2018	GBPMXN	9:30:00 AM	25.356	25.3652			N/A
12/18/2018	GBPMXN	11:30:00 AM	25.4168	25.4203			N/A
12/18/2018	GBPMXN	1:30:00 PM	25.4334	25.4336			N/A
12/18/2018	GBPMXN	3:30:00 PM	25.4471	25.4564			N/A
12/18/2018	GBPNOK	9:30:00 AM	10.9291	10.933			N/A
12/18/2018	GBPNOK	11:30:00 AM	10.9814	10.9904			N/A
12/18/2018	GBPNOK	1:30:00 PM	11.0049	11.0091			N/A
12/18/2018	GBPNOK	3:30:00 PM	11.0143	11.0249			N/A
12/18/2018	GBPNZD	9:30:00 AM	1.84044	1.84069			N/A
12/18/2018	GBPNZD	11:30:00 AM	1.84118	1.84166			N/A
12/18/2018	GBPNZD	1:30:00 PM	1.8466	1.84604			N/A
12/18/2018	GBPNZD	3:30:00 PM	1.84526	1.84591			N/A
12/18/2018	GBPPLN	9:30:00 AM	4.7679	4.7686			N/A
12/18/2018	GBPPLN	11:30:00 AM	4.7656	4.7662			N/A
12/18/2018	GBPPLN	1:30:00 PM	4.7706	4.7697			N/A
12/18/2018	GBPPLN	3:30:00 PM	4.7764	4.7773			N/A
12/18/2018	GBPSEK	9:30:00 AM	11.4618	11.4653			N/A
12/18/2018	GBPSEK	11:30:00 AM	11.4173	11.4235			N/A
12/18/2018	GBPSEK	1:30:00 PM	11.456	11.4596			N/A
12/18/2018	GBPSEK	3:30:00 PM	11.4616	11.4706			N/A
12/18/2018	GBPSGD	9:30:00 AM	1.7309	1.731			N/A
12/18/2018	GBPSGD	11:30:00 AM	1.7339	1.7344			N/A
12/18/2018	GBPSGD	1:30:00 PM	1.7387	1.7383			N/A
12/18/2018	GBPSGD	3:30:00 PM	1.7376	1.738			N/A
12/18/2018	GBPUSD	9:30:00 AM	1.26237	1.26195			N/A
12/18/2018	GBPUSD	11:30:00 AM	1.2646	1.26434			N/A
12/18/2018	GBPUSD	1:30:00 PM	1.26924	1.26834			N/A
12/18/2018	GBPUSD	3:30:00 PM	1.26819	1.26793			N/A
12/18/2018	GBPZAR	9:30:00 AM	18.0828	18.1072			N/A
12/18/2018	GBPZAR	11:30:00 AM	18.1043	18.1296			N/A
12/18/2018	GBPZAR	1:30:00 PM	18.1259	18.1423			N/A
12/18/2018	GBPZAR	3:30:00 PM	18.2014	18.2217			N/A
12/18/2018	GOLD	9:30:00 AM	1246.48	1246.67			N/A

12/18/2018	GOLD	11:30:00 AM	1248.3	1248.68			N/A
12/18/2018	GOLD	1:30:00 PM	1249.57	1249.92			N/A
12/18/2018	GOLD	3:30:00 PM	1247.78	1247.75			N/A
12/18/2018	HKDJPY	9:30:00 AM					N/A
12/18/2018	HKDJPY	11:30:00 AM					N/A
12/18/2018	HKDJPY	1:30:00 PM	14.36	14.36			N/A
12/18/2018	HKDJPY	3:30:00 PM	14.37	14.38			N/A
12/18/2018	HUFJPY	9:30:00 AM	0.3951	0.3954			N/A
12/18/2018	HUFJPY	11:30:00 AM	0.3953	0.3956			N/A
12/18/2018	HUFJPY	1:30:00 PM	0.3964	0.3967			N/A
12/18/2018	HUFJPY	3:30:00 PM	0.3961	0.3963			N/A
12/18/2018	MXNJPY	9:30:00 AM	5.59	5.61			N/A
12/18/2018	MXNJPY	11:30:00 AM	5.58	5.59			N/A
12/18/2018	MXNJPY	1:30:00 PM	5.6	5.61			N/A
12/18/2018	MXNJPY	3:30:00 PM	5.6	5.61			N/A
12/18/2018	NOKJPY	9:30:00 AM	12.99	13.02			N/A
12/18/2018	NOKJPY	11:30:00 AM	12.92	12.95			N/A
12/18/2018	NOKJPY	1:30:00 PM					N/A
12/18/2018	NOKJPY	3:30:00 PM	12.92	12.95			N/A
12/18/2018	NZDCAD	9:30:00 AM	0.91878	0.91932			N/A
12/18/2018	NZDCAD	11:30:00 AM	0.9204	0.92099			N/A
12/18/2018	NZDCAD	1:30:00 PM	0.92046	0.92112			N/A
12/18/2018	NZDCAD	3:30:00 PM	0.92066	0.92126			N/A
12/18/2018	NZDCHF	9:30:00 AM	0.68081	0.68142			N/A
12/18/2018	NZDCHF	11:30:00 AM	0.68029	0.68095			N/A
12/18/2018	NZDCHF	1:30:00 PM	0.68028	0.68089			N/A
12/18/2018	NZDCHF	3:30:00 PM	0.68093	0.68151			N/A
12/18/2018	NZDCZK	9:30:00 AM	15.559	15.569			N/A
12/18/2018	NZDCZK	11:30:00 AM	15.543	15.554			N/A
12/18/2018	NZDCZK	1:30:00 PM	15.515	15.523			N/A
12/18/2018	NZDCZK	3:30:00 PM	15.543	15.554			N/A
12/18/2018	NZDDKK	9:30:00 AM	4.512	4.516			N/A
12/18/2018	NZDDKK	11:30:00 AM	4.507	4.511			N/A
12/18/2018	NZDDKK	1:30:00 PM					N/A
12/18/2018	NZDDKK	3:30:00 PM	4.508	4.511			N/A
12/18/2018	NZDHKD	9:30:00 AM	5.3577	5.3599			N/A
12/18/2018	NZDHKD	11:30:00 AM	5.3678	5.3702			N/A
12/18/2018	NZDHKD	1:30:00 PM	5.3717	5.3744			N/A
12/18/2018	NZDHKD	3:30:00 PM	5.3706	5.3729			N/A
12/18/2018	NZDHUF	9:30:00 AM	195.27	195.53			N/A
12/18/2018	NZDHUF	11:30:00 AM	195.09	195.34			N/A
12/18/2018	NZDHUF	1:30:00 PM	194.55	194.8			N/A
12/18/2018	NZDHUF	3:30:00 PM	194.89	195.07			N/A
12/18/2018	NZDJPY	9:30:00 AM	77.172	77.229			N/A
12/18/2018	NZDJPY	11:30:00 AM	77.103	77.164			N/A
12/18/2018	NZDJPY	1:30:00 PM	77.122	77.184			N/A
12/18/2018	NZDJPY	3:30:00 PM	77.194	77.259			N/A
12/18/2018	NZDMXN	9:30:00 AM	13.7743	13.7794			N/A
12/18/2018	NZDMXN	11:30:00 AM	13.8031	13.8027			N/A
12/18/2018	NZDMXN	1:30:00 PM	13.7724	13.7763			N/A

12/18/2018	NZDMXN	3:30:00 PM	13.7882	13.7914			N/A
12/18/2018	NZDNOK	9:30:00 AM	5.9365	5.9374			N/A
12/18/2018	NZDNOK	11:30:00 AM	5.9627	5.9654			N/A
12/18/2018	NZDNOK	1:30:00 PM	5.958	5.9612			N/A
12/18/2018	NZDNOK	3:30:00 PM	5.9666	5.968			N/A
12/18/2018	NZDPLN	9:30:00 AM	2.5887	2.59			N/A
12/18/2018	NZDPLN	11:30:00 AM	2.5876	2.5884			N/A
12/18/2018	NZDPLN	1:30:00 PM	2.582	2.5833			N/A
12/18/2018	NZDPLN	3:30:00 PM	2.5863	2.5874			N/A
12/18/2018	NZDSEK	9:30:00 AM	6.2237	6.2285			N/A
12/18/2018	NZDSEK	11:30:00 AM	6.1976	6.2031			N/A
12/18/2018	NZDSEK	1:30:00 PM	6.2007	6.2067			N/A
12/18/2018	NZDSEK	3:30:00 PM	6.2068	6.213			N/A
12/18/2018	NZDSGD	9:30:00 AM	0.9403	0.9407			N/A
12/18/2018	NZDSGD	11:30:00 AM	0.9415	0.942			N/A
12/18/2018	NZDSGD	1:30:00 PM	0.9414	0.9419			N/A
12/18/2018	NZDSGD	3:30:00 PM	0.9415	0.9418			N/A
12/18/2018	NZDUSD	9:30:00 AM	0.68575	0.68577			N/A
12/18/2018	NZDUSD	11:30:00 AM	0.6866	0.68669			N/A
12/18/2018	NZDUSD	1:30:00 PM	0.6871	0.68719			N/A
12/18/2018	NZDUSD	3:30:00 PM	0.68707	0.68702			N/A
12/18/2018	NZDZAR	9:30:00 AM	9.818	9.8324			N/A
12/18/2018	NZDZAR	11:30:00 AM	9.8255	9.842			N/A
12/18/2018	NZDZAR	1:30:00 PM	9.8092	9.8248			N/A
12/18/2018	NZDZAR	3:30:00 PM	9.8558	9.8661			N/A
12/18/2018	SEKJPY	9:30:00 AM	12.4	12.4			N/A
12/18/2018	SEKJPY	11:30:00 AM	12.44	12.45			N/A
12/18/2018	SEKJPY	1:30:00 PM	12.44	12.44			N/A
12/18/2018	SEKJPY	3:30:00 PM	12.43	12.44			N/A
12/18/2018	SGDJPY	9:30:00 AM	82.07	82.09			N/A
12/18/2018	SGDJPY	11:30:00 AM	81.87	81.9			N/A
12/18/2018	SGDJPY	1:30:00 PM	81.95	81.94			N/A
12/18/2018	SGDJPY	3:30:00 PM	82	82			N/A
12/18/2018	SILVER	9:30:00 AM	14.48	14.87			N/A
12/18/2018	SILVER	11:30:00 AM	14.48	14.86			N/A
12/18/2018	SILVER	1:30:00 PM	14.5	14.89			N/A
12/18/2018	SILVER	3:30:00 PM	14.45	14.83			N/A
12/18/2018	USDCAD	9:30:00 AM	1.34026	1.3402			N/A
12/18/2018	USDCAD	11:30:00 AM	1.34082	1.34073			N/A
12/18/2018	USDCAD	1:30:00 PM	1.3399	1.34007			N/A
12/18/2018	USDCAD	3:30:00 PM	1.34044	1.34032			N/A
12/18/2018	USDCHF	9:30:00 AM	0.9931	0.99324			N/A
12/18/2018	USDCHF	11:30:00 AM	0.99111	0.99119			N/A
12/18/2018	USDCHF	1:30:00 PM	0.99038	0.99038			N/A
12/18/2018	USDCHF	3:30:00 PM	0.99169	0.99123			N/A
12/18/2018	USDCZK	9:30:00 AM	22.709	22.727			N/A
12/18/2018	USDCZK	11:30:00 AM	22.653	22.674			N/A
12/18/2018	USDCZK	1:30:00 PM	22.594	22.612			N/A
12/18/2018	USDCZK	3:30:00 PM	22.643	22.656			N/A
12/18/2018	USDDKK	9:30:00 AM	6.5825	6.5858			N/A

12/18/2018	USDDKK	11:30:00 AM	6.566	6.5684			N/A
12/18/2018	USDDKK	1:30:00 PM	6.5508	6.5535			N/A
12/18/2018	USDDKK	3:30:00 PM	6.565	6.5662			N/A
12/18/2018	USDHKD	9:30:00 AM	7.8166	7.8169			N/A
12/18/2018	USDHKD	11:30:00 AM	7.8206	7.8207			N/A
12/18/2018	USDHKD	1:30:00 PM	7.8203	7.8205			N/A
12/18/2018	USDHKD	3:30:00 PM	7.82	7.8204			N/A
12/18/2018	USDHUF	9:30:00 AM	284.85	285.32			N/A
12/18/2018	USDHUF	11:30:00 AM	284.19	284.61			N/A
12/18/2018	USDHUF	1:30:00 PM	283.23	283.64			N/A
12/18/2018	USDHUF	3:30:00 PM	283.81	284.17			N/A
12/18/2018	USDJPY	9:30:00 AM	112.564	112.577			N/A
12/18/2018	USDJPY	11:30:00 AM	112.323	112.329			N/A
12/18/2018	USDJPY	1:30:00 PM	112.272	112.275			N/A
12/18/2018	USDJPY	3:30:00 PM	112.413	112.373			N/A
12/18/2018	USDMXN	9:30:00 AM	20.098	20.098			N/A
12/18/2018	USDMXN	11:30:00 AM	20.11	20.106			N/A
12/18/2018	USDMXN	1:30:00 PM	20.049	20.054			N/A
12/18/2018	USDMXN	3:30:00 PM	20.075	20.078			N/A
12/18/2018	USDNOK	9:30:00 AM	8.6585	8.6633			N/A
12/18/2018	USDNOK	11:30:00 AM	8.686	8.6914			N/A
12/18/2018	USDNOK	1:30:00 PM	8.6722	8.6795			N/A
12/18/2018	USDNOK	3:30:00 PM	8.6875	8.6931			N/A
12/18/2018	USDPLN	9:30:00 AM	3.7769	3.7783			N/A
12/18/2018	USDPLN	11:30:00 AM	3.7686	3.7694			N/A
12/18/2018	USDPLN	1:30:00 PM	3.759	3.7601			N/A
12/18/2018	USDPLN	3:30:00 PM	3.7673	3.767			N/A
12/18/2018	USDRUR	9:30:00 AM					N/A
12/18/2018	USDRUR	11:30:00 AM	66.635	67.018			N/A
12/18/2018	USDRUR	1:30:00 PM	66.63	67.019			N/A
12/18/2018	USDRUR	3:30:00 PM	66.782	67.142			N/A
12/18/2018	USDSEK	9:30:00 AM	9.0801	9.0823			N/A
12/18/2018	USDSEK	11:30:00 AM	9.0296	9.0324			N/A
12/18/2018	USDSEK	1:30:00 PM	9.0285	9.0314			N/A
12/18/2018	USDSEK	3:30:00 PM	9.0407	9.0428			N/A
12/18/2018	USDSGD	9:30:00 AM	1.3711	1.3715			N/A
12/18/2018	USDSGD	11:30:00 AM	1.3713	1.3716			N/A
12/18/2018	USDSGD	1:30:00 PM	1.37	1.3702			N/A
12/18/2018	USDSGD	3:30:00 PM	1.3702	1.3705			N/A
12/18/2018	USDZAR	9:30:00 AM	14.3283	14.341			N/A
12/18/2018	USDZAR	11:30:00 AM	14.3194	14.337			N/A
12/18/2018	USDZAR	1:30:00 PM	14.2851	14.3013			N/A
12/18/2018	USDZAR	3:30:00 PM	14.3627	14.3665			N/A
12/18/2018	XAUUSD	9:30:00 AM	1246.45	1246.54			N/A
12/18/2018	XAUUSD	11:30:00 AM	1248.3	1248.58			N/A
12/18/2018	XAUUSD	1:30:00 PM	1249.57	1249.84			N/A
12/18/2018	XAUUSD	3:30:00 PM	1247.75	1247.62			N/A
12/18/2018	ZARJPY	9:30:00 AM	7.84	7.86			N/A
12/18/2018	ZARJPY	11:30:00 AM					N/A
12/18/2018	ZARJPY	1:30:00 PM	7.84	7.86			N/A

12/18/2018	ZARJPY	3:30:00 PM	7.81	7.83			N/A
12/19/2018	#AA	9:30:00 AM					N/A
12/19/2018	#AA	11:30:00 AM					N/A
12/19/2018	#AA	1:30:00 PM					N/A
12/19/2018	#AA	3:30:00 PM					N/A
12/19/2018	#AABA	9:30:00 AM					N/A
12/19/2018	#AABA	11:30:00 AM					N/A
12/19/2018	#AABA	1:30:00 PM					N/A
12/19/2018	#AABA	3:30:00 PM					N/A
12/19/2018	#AAL	9:30:00 AM					N/A
12/19/2018	#AAL	11:30:00 AM					N/A
12/19/2018	#AAL	1:30:00 PM					N/A
12/19/2018	#AAL	3:30:00 PM					N/A
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12/19/2018	#AAPL	3:30:00 PM					N/A
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12/19/2018	#ADBE	11:30:00 AM					N/A
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12/19/2018	#ADBE	3:30:00 PM					N/A
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12/19/2018	#AIG	11:30:00 AM					N/A
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12/19/2018	#AIG	3:30:00 PM					N/A
12/19/2018	#AMD	9:30:00 AM					N/A
12/19/2018	#AMD	11:30:00 AM					N/A
12/19/2018	#AMD	1:30:00 PM					N/A
12/19/2018	#AMD	3:30:00 PM					N/A
12/19/2018	#AMZN	9:30:00 AM					N/A
12/19/2018	#AMZN	11:30:00 AM					N/A
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12/19/2018	#AMZN	3:30:00 PM					N/A
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12/19/2018	#AXP	11:30:00 AM					N/A
12/19/2018	#AXP	1:30:00 PM					N/A
12/19/2018	#AXP	3:30:00 PM					N/A
12/19/2018	#BA	9:30:00 AM					N/A
12/19/2018	#BA	11:30:00 AM					N/A
12/19/2018	#BA	1:30:00 PM					N/A
12/19/2018	#BA	3:30:00 PM					N/A
12/19/2018	#BABA	9:30:00 AM					N/A
12/19/2018	#BABA	11:30:00 AM					N/A
12/19/2018	#BABA	1:30:00 PM					N/A
12/19/2018	#BABA	3:30:00 PM					N/A
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12/19/2018	#BAC	1:30:00 PM					N/A
12/19/2018	#BAC	3:30:00 PM					N/A
12/19/2018	#BARC	9:30:00 AM					N/A

12/19/2018	#BARC	11:30:00 AM					N/A
12/19/2018	#BARC	1:30:00 PM					N/A
12/19/2018	#BARC	3:30:00 PM					N/A
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12/19/2018	#BHP	1:30:00 PM					N/A
12/19/2018	#BHP	3:30:00 PM					N/A
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12/19/2018	#BIDU	11:30:00 AM					N/A
12/19/2018	#BIDU	1:30:00 PM					N/A
12/19/2018	#BIDU	3:30:00 PM					N/A
12/19/2018	#BK	9:30:00 AM					N/A
12/19/2018	#BK	11:30:00 AM					N/A
12/19/2018	#BK	1:30:00 PM					N/A
12/19/2018	#BK	3:30:00 PM					N/A
12/19/2018	#BLT	9:30:00 AM					N/A
12/19/2018	#BLT	11:30:00 AM					N/A
12/19/2018	#BLT	1:30:00 PM					N/A
12/19/2018	#BLT	3:30:00 PM					N/A
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12/19/2018	#BP	11:30:00 AM					N/A
12/19/2018	#BP	1:30:00 PM					N/A
12/19/2018	#BP	3:30:00 PM					N/A
12/19/2018	#BTA	9:30:00 AM					N/A
12/19/2018	#BTA	11:30:00 AM					N/A
12/19/2018	#BTA	1:30:00 PM					N/A
12/19/2018	#BTA	3:30:00 PM					N/A
12/19/2018	#C	9:30:00 AM					N/A
12/19/2018	#C	11:30:00 AM					N/A
12/19/2018	#C	1:30:00 PM					N/A
12/19/2018	#C	3:30:00 PM					N/A
12/19/2018	#CAT	9:30:00 AM					N/A
12/19/2018	#CAT	11:30:00 AM					N/A
12/19/2018	#CAT	1:30:00 PM					N/A
12/19/2018	#CAT	3:30:00 PM					N/A
12/19/2018	#CHL	9:30:00 AM					N/A
12/19/2018	#CHL	11:30:00 AM					N/A
12/19/2018	#CHL	1:30:00 PM					N/A
12/19/2018	#CHL	3:30:00 PM					N/A
12/19/2018	#CMCSA	9:30:00 AM					N/A
12/19/2018	#CMCSA	11:30:00 AM					N/A
12/19/2018	#CMCSA	1:30:00 PM					N/A
12/19/2018	#CMCSA	3:30:00 PM					N/A
12/19/2018	#CSCO	9:30:00 AM					N/A
12/19/2018	#CSCO	11:30:00 AM					N/A
12/19/2018	#CSCO	1:30:00 PM					N/A
12/19/2018	#CSCO	3:30:00 PM					N/A
12/19/2018	#CVX	9:30:00 AM					N/A
12/19/2018	#CVX	11:30:00 AM					N/A
12/19/2018	#CVX	1:30:00 PM					N/A

12/19/2018	#CVX	3:30:00 PM					N/A
12/19/2018	#DD	9:30:00 AM					N/A
12/19/2018	#DD	11:30:00 AM					N/A
12/19/2018	#DD	1:30:00 PM					N/A
12/19/2018	#DD	3:30:00 PM					N/A
12/19/2018	#DIS	9:30:00 AM					N/A
12/19/2018	#DIS	11:30:00 AM					N/A
12/19/2018	#DIS	1:30:00 PM					N/A
12/19/2018	#DIS	3:30:00 PM					N/A
12/19/2018	#DWDP	9:30:00 AM					N/A
12/19/2018	#DWDP	11:30:00 AM					N/A
12/19/2018	#DWDP	1:30:00 PM					N/A
12/19/2018	#DWDP	3:30:00 PM					N/A
12/19/2018	#EBAY	9:30:00 AM					N/A
12/19/2018	#EBAY	11:30:00 AM					N/A
12/19/2018	#EBAY	1:30:00 PM					N/A
12/19/2018	#EBAY	3:30:00 PM					N/A
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12/19/2018	AUDDKK	9:30:00 AM	4.7134	4.7179			N/A
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12/19/2018	AUDNZD	1:30:00 PM	1.04777	1.04856			N/A
12/19/2018	AUDNZD	3:30:00 PM	1.04694	1.04784			N/A
12/19/2018	AUDPLN	9:30:00 AM	2.7025	2.7045			N/A
12/19/2018	AUDPLN	11:30:00 AM	2.7003	2.7027			N/A
12/19/2018	AUDPLN	1:30:00 PM	2.7014	2.7044			N/A
12/19/2018	AUDPLN	3:30:00 PM	2.696	2.6989			N/A
12/19/2018	AUDSEK	9:30:00 AM	6.5073	6.5103			N/A
12/19/2018	AUDSEK	11:30:00 AM	6.5108	6.5134			N/A
12/19/2018	AUDSEK	1:30:00 PM	6.5115	6.5129			N/A
12/19/2018	AUDSEK	3:30:00 PM	6.5082	6.5104			N/A
12/19/2018	AUDSGD	9:30:00 AM	0.985	0.9853			N/A
12/19/2018	AUDSGD	11:30:00 AM	0.9846	0.9849			N/A
12/19/2018	AUDSGD	1:30:00 PM	0.9847	0.9849			N/A
12/19/2018	AUDSGD	3:30:00 PM	0.9834	0.9835			N/A
12/19/2018	AUDUSD	9:30:00 AM	0.71948	0.71956			N/A
12/19/2018	AUDUSD	11:30:00 AM	0.71937	0.71938			N/A
12/19/2018	AUDUSD	1:30:00 PM	0.71895	0.71896			N/A
12/19/2018	AUDUSD	3:30:00 PM	0.71794	0.71795			N/A
12/19/2018	AUDZAR	9:30:00 AM	10.2403	10.2534			N/A
12/19/2018	AUDZAR	11:30:00 AM	10.2683	10.2744			N/A
12/19/2018	AUDZAR	1:30:00 PM	10.2597	10.2732			N/A
12/19/2018	AUDZAR	3:30:00 PM	10.2244	10.2393			N/A
12/19/2018	CADCHF	9:30:00 AM	0.73694	0.73759			N/A
12/19/2018	CADCHF	11:30:00 AM	0.73582	0.7365			N/A
12/19/2018	CADCHF	1:30:00 PM	0.73808	0.73873			N/A
12/19/2018	CADCHF	3:30:00 PM	0.73841	0.73826			N/A
12/19/2018	CADCZK	9:30:00 AM	16.764	16.779			N/A
12/19/2018	CADCZK	11:30:00 AM	16.738	16.752			N/A
12/19/2018	CADCZK	1:30:00 PM	16.775	16.791			N/A
12/19/2018	CADCZK	3:30:00 PM	16.79	16.788			N/A
12/19/2018	CADDKK	9:30:00 AM	4.868	4.872			N/A
12/19/2018	CADDKK	11:30:00 AM	4.86	4.864			N/A
12/19/2018	CADDKK	1:30:00 PM					N/A
12/19/2018	CADDKK	3:30:00 PM	4.869	4.869			N/A
12/19/2018	CADHKD	9:30:00 AM	5.8104	5.8143			N/A
12/19/2018	CADHKD	11:30:00 AM	5.8063	5.8102			N/A
12/19/2018	CADHKD	1:30:00 PM	5.8125	5.8164			N/A
12/19/2018	CADHKD	3:30:00 PM	5.8179	5.8138			N/A
12/19/2018	CADHUF	9:30:00 AM	210.1	210.21			N/A
12/19/2018	CADHUF	11:30:00 AM	209.79	209.87			N/A
12/19/2018	CADHUF	1:30:00 PM	210.3	210.44			N/A
12/19/2018	CADHUF	3:30:00 PM	210.39	210.3			N/A
12/19/2018	CADJPY	9:30:00 AM	83.491	83.558			N/A
12/19/2018	CADJPY	11:30:00 AM	83.37	83.436			N/A
12/19/2018	CADJPY	1:30:00 PM	83.477	83.545			N/A

12/19/2018	CADJPY	3:30:00 PM	83.517	83.49			N/A
12/19/2018	CADMXN	9:30:00 AM	14.8986	14.9094			N/A
12/19/2018	CADMXN	11:30:00 AM	14.9296	14.9382			N/A
12/19/2018	CADMXN	1:30:00 PM	14.9466	14.9573			N/A
12/19/2018	CADMXN	3:30:00 PM	14.9095	14.9021			N/A
12/19/2018	CADNOK	9:30:00 AM	6.4623	6.4662			N/A
12/19/2018	CADNOK	11:30:00 AM	6.4555	6.4578			N/A
12/19/2018	CADNOK	1:30:00 PM	6.4678	6.4726			N/A
12/19/2018	CADNOK	3:30:00 PM	6.4768	6.4742			N/A
12/19/2018	CADPLN	9:30:00 AM	2.7915	2.7926			N/A
12/19/2018	CADPLN	11:30:00 AM	2.7863	2.7873			N/A
12/19/2018	CADPLN	1:30:00 PM	2.7925	2.7944			N/A
12/19/2018	CADPLN	3:30:00 PM	2.7915	2.7905			N/A
12/19/2018	CADSEK	9:30:00 AM	6.7192	6.7226			N/A
12/19/2018	CADSEK	11:30:00 AM	6.7175	6.7207			N/A
12/19/2018	CADSEK	1:30:00 PM	6.7301	6.7321			N/A
12/19/2018	CADSEK	3:30:00 PM	6.739	6.7356			N/A
12/19/2018	CADSGD	9:30:00 AM	1.0168	1.0171			N/A
12/19/2018	CADSGD	11:30:00 AM	1.0156	1.0159			N/A
12/19/2018	CADSGD	1:30:00 PM					N/A
12/19/2018	CADSGD	3:30:00 PM	1.0181	1.0176			N/A
12/19/2018	CADZAR	9:30:00 AM	10.5761	10.5919			N/A
12/19/2018	CADZAR	11:30:00 AM	10.5974	10.6064			N/A
12/19/2018	CADZAR	1:30:00 PM	10.607	10.6224			N/A
12/19/2018	CADZAR	3:30:00 PM	10.5936	10.5978			N/A
12/19/2018	CHFCZK	9:30:00 AM	22.741	22.756			N/A
12/19/2018	CHFCZK	11:30:00 AM	22.741	22.754			N/A
12/19/2018	CHFCZK	1:30:00 PM	22.722	22.738			N/A
12/19/2018	CHFCZK	3:30:00 PM	22.732	22.745			N/A
12/19/2018	CHFDKK	9:30:00 AM	6.604	6.607			N/A
12/19/2018	CHFDKK	11:30:00 AM	6.602	6.604			N/A
12/19/2018	CHFDKK	1:30:00 PM	6.592	6.595			N/A
12/19/2018	CHFDKK	3:30:00 PM	6.594	6.596			N/A
12/19/2018	CHFHKD	9:30:00 AM	7.8822	7.8856			N/A
12/19/2018	CHFHKD	11:30:00 AM	7.8887	7.8915			N/A
12/19/2018	CHFHKD	1:30:00 PM	7.8741	7.8767			N/A
12/19/2018	CHFHKD	3:30:00 PM	7.8748	7.8785			N/A
12/19/2018	CHFHUF	9:30:00 AM	284.89	285.23			N/A
12/19/2018	CHFHUF	11:30:00 AM	284.93	285.18			N/A
12/19/2018	CHFHUF	1:30:00 PM	284.73	285.1			N/A
12/19/2018	CHFHUF	3:30:00 PM	284.72	285.08			N/A
12/19/2018	CHFJPY	9:30:00 AM	113.271	113.322			N/A
12/19/2018	CHFJPY	11:30:00 AM	113.263	113.328			N/A
12/19/2018	CHFJPY	1:30:00 PM	113.075	113.123			N/A
12/19/2018	CHFJPY	3:30:00 PM	113.068	113.13			N/A
12/19/2018	CHFMXN	9:30:00 AM	20.2091	20.2247			N/A
12/19/2018	CHFMXN	11:30:00 AM	20.2813	20.2952			N/A
12/19/2018	CHFMXN	1:30:00 PM	20.243	20.258			N/A
12/19/2018	CHFMXN	3:30:00 PM	20.1854	20.1814			N/A
12/19/2018	CHFNOK	9:30:00 AM	8.7656	8.7718			N/A

12/19/2018	CHFNOK	11:30:00 AM	8.77	8.7777			N/A
12/19/2018	CHFNOK	1:30:00 PM	8.7597	8.7669			N/A
12/19/2018	CHFNOK	3:30:00 PM	8.7715	8.7753			N/A
12/19/2018	CHFPLN	9:30:00 AM	3.7861	3.7878			N/A
12/19/2018	CHFPLN	11:30:00 AM	3.7857	3.7885			N/A
12/19/2018	CHFPLN	1:30:00 PM	3.7824	3.7853			N/A
12/19/2018	CHFPLN	3:30:00 PM	3.7809	3.7837			N/A
12/19/2018	CHFSEK	9:30:00 AM	9.114	9.1188			N/A
12/19/2018	CHFSEK	11:30:00 AM	9.1263	9.1299			N/A
12/19/2018	CHFSEK	1:30:00 PM	9.1152	9.1185			N/A
12/19/2018	CHFSEK	3:30:00 PM	9.1233	9.1273			N/A
12/19/2018	CHFSGD	9:30:00 AM	1.3797	1.3801			N/A
12/19/2018	CHFSGD	11:30:00 AM	1.3804	1.3807			N/A
12/19/2018	CHFSGD	1:30:00 PM	1.3785	1.3788			N/A
12/19/2018	CHFSGD	3:30:00 PM	1.3789	1.3791			N/A
12/19/2018	CHFZAR	9:30:00 AM	14.3508	14.3618			N/A
12/19/2018	CHFZAR	11:30:00 AM	14.4014	14.4059			N/A
12/19/2018	CHFZAR	1:30:00 PM	14.3713	14.3805			N/A
12/19/2018	CHFZAR	3:30:00 PM	14.3445	14.3556			N/A
12/19/2018	CZKJPY	9:30:00 AM					N/A
12/19/2018	CZKJPY	11:30:00 AM	4.98	4.984			N/A
12/19/2018	CZKJPY	1:30:00 PM					N/A
12/19/2018	CZKJPY	3:30:00 PM	4.973	4.977			N/A
12/19/2018	DKKJPY	9:30:00 AM	17.16	17.18			N/A
12/19/2018	DKKJPY	11:30:00 AM					N/A
12/19/2018	DKKJPY	1:30:00 PM	17.16	17.17			N/A
12/19/2018	DKKJPY	3:30:00 PM					N/A
12/19/2018	EURAUD	9:30:00 AM	1.58278	1.58315			N/A
12/19/2018	EURAUD	11:30:00 AM	1.58445	1.58472			N/A
12/19/2018	EURAUD	1:30:00 PM	1.58489	1.58514			N/A
12/19/2018	EURAUD	3:30:00 PM	1.58696	1.58718			N/A
12/19/2018	EURCAD	9:30:00 AM	1.53309	1.53369			N/A
12/19/2018	EURCAD	11:30:00 AM	1.53559	1.53645			N/A
12/19/2018	EURCAD	1:30:00 PM	1.53354	1.53421			N/A
12/19/2018	EURCAD	3:30:00 PM	1.53406	1.53309			N/A
12/19/2018	EURCHF	9:30:00 AM	1.13044	1.13057			N/A
12/19/2018	EURCHF	11:30:00 AM	1.13071	1.13083			N/A
12/19/2018	EURCHF	1:30:00 PM	1.1326	1.13264			N/A
12/19/2018	EURCHF	3:30:00 PM	1.13236	1.13229			N/A
12/19/2018	EURCZK	9:30:00 AM	25.696	25.732			N/A
12/19/2018	EURCZK	11:30:00 AM	25.701	25.734			N/A
12/19/2018	EURCZK	1:30:00 PM					N/A
12/19/2018	EURCZK	3:30:00 PM	25.722	25.762			N/A
12/19/2018	EURDKK	9:30:00 AM	7.4657	7.4669			N/A
12/19/2018	EURDKK	11:30:00 AM	7.4638	7.465			N/A
12/19/2018	EURDKK	1:30:00 PM	7.4665	7.4676			N/A
12/19/2018	EURDKK	3:30:00 PM	7.4663	7.4676			N/A
12/19/2018	EURGBP	9:30:00 AM	0.89999	0.90012			N/A
12/19/2018	EURGBP	11:30:00 AM	0.90174	0.90153			N/A
12/19/2018	EURGBP	1:30:00 PM	0.90219	0.90198			N/A

12/19/2018	EURGBP	3:30:00 PM	0.904	0.90374			N/A
12/19/2018	EURHKD	9:30:00 AM	8.9116	8.9156			N/A
12/19/2018	EURHKD	11:30:00 AM	8.9207	8.9256			N/A
12/19/2018	EURHKD	1:30:00 PM	8.9183	8.9215			N/A
12/19/2018	EURHKD	3:30:00 PM	8.9177	8.9216			N/A
12/19/2018	EURHUF	9:30:00 AM	322.01	322.62			N/A
12/19/2018	EURHUF	11:30:00 AM	322.13	322.86			N/A
12/19/2018	EURHUF	1:30:00 PM	322.43	323.15			N/A
12/19/2018	EURHUF	3:30:00 PM	322.47	323.08			N/A
12/19/2018	EURJPY	9:30:00 AM	128.09	128.073			N/A
12/19/2018	EURJPY	11:30:00 AM	128.111	128.109			N/A
12/19/2018	EURJPY	1:30:00 PM	128.102	128.09			N/A
12/19/2018	EURJPY	3:30:00 PM	128.065	128.064			N/A
12/19/2018	EURMXN	9:30:00 AM	22.8506	22.8681			N/A
12/19/2018	EURMXN	11:30:00 AM	22.9368	22.9522			N/A
12/19/2018	EURMXN	1:30:00 PM	22.9305	22.9478			N/A
12/19/2018	EURMXN	3:30:00 PM	22.8607	22.8563			N/A
12/19/2018	EURNOK	9:30:00 AM	9.908	9.9178			N/A
12/19/2018	EURNOK	11:30:00 AM	9.9154	9.9268			N/A
12/19/2018	EURNOK	1:30:00 PM	9.9193	9.9308			N/A
12/19/2018	EURNOK	3:30:00 PM	9.9299	9.9421			N/A
12/19/2018	EURNZD	9:30:00 AM	1.65979	1.66054			N/A
12/19/2018	EURNZD	11:30:00 AM	1.66178	1.66255			N/A
12/19/2018	EURNZD	1:30:00 PM	1.66163	1.66228			N/A
12/19/2018	EURNZD	3:30:00 PM	1.66264	1.66322			N/A
12/19/2018	EURPLN	9:30:00 AM	4.2804	4.2819			N/A
12/19/2018	EURPLN	11:30:00 AM	4.281	4.2838			N/A
12/19/2018	EURPLN	1:30:00 PM	4.284	4.2873			N/A
12/19/2018	EURPLN	3:30:00 PM	4.2811	4.2841			N/A
12/19/2018	EURRUR	9:30:00 AM					N/A
12/19/2018	EURRUR	11:30:00 AM	76.287	76.726			N/A
12/19/2018	EURRUR	1:30:00 PM	76.44	76.866			N/A
12/19/2018	EURRUR	3:30:00 PM	76.806	77.23			N/A
12/19/2018	EURSEK	9:30:00 AM	10.3046	10.3094			N/A
12/19/2018	EURSEK	11:30:00 AM	10.3209	10.3256			N/A
12/19/2018	EURSEK	1:30:00 PM	10.3246	10.3273			N/A
12/19/2018	EURSEK	3:30:00 PM	10.333	10.3371			N/A
12/19/2018	EURSGD	9:30:00 AM	1.5597	1.5603			N/A
12/19/2018	EURSGD	11:30:00 AM	1.5607	1.5614			N/A
12/19/2018	EURSGD	1:30:00 PM	1.5612	1.5618			N/A
12/19/2018	EURSGD	3:30:00 PM	1.5612	1.5618			N/A
12/19/2018	EURUSD	9:30:00 AM	1.13924	1.13921			N/A
12/19/2018	EURUSD	11:30:00 AM	1.14014	1.14021			N/A
12/19/2018	EURUSD	1:30:00 PM	1.13992	1.13975			N/A
12/19/2018	EURUSD	3:30:00 PM	1.13972	1.1397			N/A
12/19/2018	EURZAR	9:30:00 AM	16.2291	16.2436			N/A
12/19/2018	EURZAR	11:30:00 AM	16.2883	16.3002			N/A
12/19/2018	EURZAR	1:30:00 PM	16.2791	16.2931			N/A
12/19/2018	EURZAR	3:30:00 PM	16.2495	16.2681			N/A
12/19/2018	GBPAUD	9:30:00 AM	1.759	1.75975			N/A

12/19/2018	GBPAUD	11:30:00 AM	1.75795	1.7582			N/A
12/19/2018	GBPAUD	1:30:00 PM	1.7578	1.75766			N/A
12/19/2018	GBPAUD	3:30:00 PM	1.7567	1.75634			N/A
12/19/2018	GBPCAD	9:30:00 AM	1.70344	1.70402			N/A
12/19/2018	GBPCAD	11:30:00 AM	1.70384	1.70372			N/A
12/19/2018	GBPCAD	1:30:00 PM	1.70042	1.70032			N/A
12/19/2018	GBPCAD	3:30:00 PM	1.6977	1.69582			N/A
12/19/2018	GBPCHF	9:30:00 AM	1.25584	1.25631			N/A
12/19/2018	GBPCHF	11:30:00 AM	1.25414	1.25411			N/A
12/19/2018	GBPCHF	1:30:00 PM	1.25559	1.25558			N/A
12/19/2018	GBPCHF	3:30:00 PM	1.25288	1.25257			N/A
12/19/2018	GBPCZK	9:30:00 AM	28.559	28.581			N/A
12/19/2018	GBPCZK	11:30:00 AM	28.52	28.524			N/A
12/19/2018	GBPCZK	1:30:00 PM	28.53	28.54			N/A
12/19/2018	GBPCZK	3:30:00 PM	28.474	28.484			N/A
12/19/2018	GBPDKK	9:30:00 AM	8.292	8.303			N/A
12/19/2018	GBPDKK	11:30:00 AM	8.279	8.287			N/A
12/19/2018	GBPDKK	1:30:00 PM	8.274	8.282			N/A
12/19/2018	GBPDKK	3:30:00 PM	8.259	8.266			N/A
12/19/2018	GBPHKD	9:30:00 AM	9.899	9.9033			N/A
12/19/2018	GBPHKD	11:30:00 AM	9.8925	9.8938			N/A
12/19/2018	GBPHKD	1:30:00 PM	9.8863	9.8859			N/A
12/19/2018	GBPHKD	3:30:00 PM	9.8646	9.866			N/A
12/19/2018	GBPHUF	9:30:00 AM	357.79	358.19			N/A
12/19/2018	GBPHUF	11:30:00 AM	357.35	357.5			N/A
12/19/2018	GBPHUF	1:30:00 PM	357.5	357.83			N/A
12/19/2018	GBPHUF	3:30:00 PM	356.66	356.98			N/A
12/19/2018	GBPJPY	9:30:00 AM	142.301	142.315			N/A
12/19/2018	GBPJPY	11:30:00 AM	142.091	142.072			N/A
12/19/2018	GBPJPY	1:30:00 PM	142.019	141.983		1000	N/A
12/19/2018	GBPJPY	3:30:00 PM	141.696	141.671		1000	N/A
12/19/2018	GBPMXN	9:30:00 AM	25.381	25.3959			N/A
12/19/2018	GBPMXN	11:30:00 AM	25.4384	25.44			N/A
12/19/2018	GBPMXN	1:30:00 PM	25.4209	25.4243			N/A
12/19/2018	GBPMXN	3:30:00 PM	25.288	25.2738			N/A
12/19/2018	GBPNOK	9:30:00 AM	11.0097	11.0183			N/A
12/19/2018	GBPNOK	11:30:00 AM	10.9998	11.0073			N/A
12/19/2018	GBPNOK	1:30:00 PM	10.9994	11.0066			N/A
12/19/2018	GBPNOK	3:30:00 PM	10.9898	10.9961			N/A
12/19/2018	GBPNZD	9:30:00 AM	1.84416	1.84494			N/A
12/19/2018	GBPNZD	11:30:00 AM	1.8444	1.84365			N/A
12/19/2018	GBPNZD	1:30:00 PM	1.84239	1.84232			N/A
12/19/2018	GBPNZD	3:30:00 PM	1.83997	1.83967			N/A
12/19/2018	GBPPLN	9:30:00 AM	4.7563	4.7567			N/A
12/19/2018	GBPPLN	11:30:00 AM	4.7498	4.7496			N/A
12/19/2018	GBPPLN	1:30:00 PM	4.7508	4.7508			N/A
12/19/2018	GBPPLN	3:30:00 PM	4.7381	4.738			N/A
12/19/2018	GBPSEK	9:30:00 AM	11.4469	11.4566			N/A
12/19/2018	GBPSEK	11:30:00 AM	11.4471	11.4523			N/A
12/19/2018	GBPSEK	1:30:00 PM	11.4434	11.4505			N/A

12/19/2018	GBPSEK	3:30:00 PM	11.4316	11.4359			N/A
12/19/2018	GBPSGD	9:30:00 AM	1.733	1.7336			N/A
12/19/2018	GBPSGD	11:30:00 AM	1.7315	1.7314			N/A
12/19/2018	GBPSGD	1:30:00 PM	1.731	1.731			N/A
12/19/2018	GBPSGD	3:30:00 PM	1.7275	1.7275			N/A
12/19/2018	GBPUSD	9:30:00 AM	1.26601	1.26591			N/A
12/19/2018	GBPUSD	11:30:00 AM	1.26489	1.26447			N/A
12/19/2018	GBPUSD	1:30:00 PM	1.2641	1.2634	20	30	N/A
12/19/2018	GBPUSD	3:30:00 PM	1.26135	1.26085			N/A
12/19/2018	GBPZAR	9:30:00 AM	18.028	18.0521			N/A
12/19/2018	GBPZAR	11:30:00 AM	18.0653	18.0795			N/A
12/19/2018	GBPZAR	1:30:00 PM	18.0459	18.0617			N/A
12/19/2018	GBPZAR	3:30:00 PM	17.9768	17.9989			N/A
12/19/2018	GOLD	9:30:00 AM	1250.27	1250.57			N/A
12/19/2018	GOLD	11:30:00 AM	1249.69	1249.98			N/A
12/19/2018	GOLD	1:30:00 PM	1247.98	1248.27			N/A
12/19/2018	GOLD	3:30:00 PM	1248.23	1248.39			N/A
12/19/2018	HKDJPY	9:30:00 AM	14.37	14.38			N/A
12/19/2018	HKDJPY	11:30:00 AM	14.36	14.38			N/A
12/19/2018	HKDJPY	1:30:00 PM	14.36	14.37			N/A
12/19/2018	HKDJPY	3:30:00 PM	14.36	14.37			N/A
12/19/2018	HUFJPY	9:30:00 AM	0.3974	0.3977			N/A
12/19/2018	HUFJPY	11:30:00 AM	0.3976	0.3979			N/A
12/19/2018	HUFJPY	1:30:00 PM	0.3972	0.3975			N/A
12/19/2018	HUFJPY	3:30:00 PM	0.3971	0.3975			N/A
12/19/2018	MXNJPY	9:30:00 AM					N/A
12/19/2018	MXNJPY	11:30:00 AM	5.58	5.59			N/A
12/19/2018	MXNJPY	1:30:00 PM	5.59	5.59			N/A
12/19/2018	MXNJPY	3:30:00 PM	5.6	5.61			N/A
12/19/2018	NOKJPY	9:30:00 AM	12.91	12.94			N/A
12/19/2018	NOKJPY	11:30:00 AM	12.9	12.93			N/A
12/19/2018	NOKJPY	1:30:00 PM	12.9	12.92			N/A
12/19/2018	NOKJPY	3:30:00 PM	12.88	12.91			N/A
12/19/2018	NZDCAD	9:30:00 AM	0.92332	0.92396			N/A
12/19/2018	NZDCAD	11:30:00 AM	0.92381	0.92445			N/A
12/19/2018	NZDCAD	1:30:00 PM	0.92259	0.92324			N/A
12/19/2018	NZDCAD	3:30:00 PM	0.9224	0.92213			N/A
12/19/2018	NZDCHF	9:30:00 AM	0.68061	0.68133			N/A
12/19/2018	NZDCHF	11:30:00 AM	0.67995	0.68063			N/A
12/19/2018	NZDCHF	1:30:00 PM	0.68118	0.68183			N/A
12/19/2018	NZDCHF	3:30:00 PM	0.68058	0.68128			N/A
12/19/2018	NZDCZK	9:30:00 AM	15.483	15.494			N/A
12/19/2018	NZDCZK	11:30:00 AM	15.468	15.475			N/A
12/19/2018	NZDCZK	1:30:00 PM	15.482	15.493			N/A
12/19/2018	NZDCZK	3:30:00 PM	15.474	15.484			N/A
12/19/2018	NZDDKK	9:30:00 AM	4.496	4.499			N/A
12/19/2018	NZDDKK	11:30:00 AM	4.49	4.492			N/A
12/19/2018	NZDDKK	1:30:00 PM	4.491	4.494			N/A
12/19/2018	NZDDKK	3:30:00 PM					N/A
12/19/2018	NZDHKD	9:30:00 AM	5.3657	5.3681			N/A

12/19/2018	NZDHKD	11:30:00 AM	5.365	5.367			N/A
12/19/2018	NZDHKD	1:30:00 PM	5.3637	5.3666			N/A
12/19/2018	NZDHKD	3:30:00 PM	5.3602	5.3628			N/A
12/19/2018	NZDHUF	9:30:00 AM	193.95	194.19			N/A
12/19/2018	NZDHUF	11:30:00 AM	193.79	193.96			N/A
12/19/2018	NZDHUF	1:30:00 PM	193.98	194.25			N/A
12/19/2018	NZDHUF	3:30:00 PM	193.8	194.06			N/A
12/19/2018	NZDJPY	9:30:00 AM	77.12	77.181			N/A
12/19/2018	NZDJPY	11:30:00 AM	77.042	77.106			N/A
12/19/2018	NZDJPY	1:30:00 PM	77.042	77.103			N/A
12/19/2018	NZDJPY	3:30:00 PM	76.98	77.042			N/A
12/19/2018	NZDMXN	9:30:00 AM	13.7602	13.7658			N/A
12/19/2018	NZDMXN	11:30:00 AM	13.7963	13.7981			N/A
12/19/2018	NZDMXN	1:30:00 PM	13.7939	13.7991			N/A
12/19/2018	NZDMXN	3:30:00 PM	13.7415	13.7349			N/A
12/19/2018	NZDNOK	9:30:00 AM	5.9677	5.971			N/A
12/19/2018	NZDNOK	11:30:00 AM	5.9645	5.9655			N/A
12/19/2018	NZDNOK	1:30:00 PM	5.9685	5.9716			N/A
12/19/2018	NZDNOK	3:30:00 PM	5.9685	5.9716			N/A
12/19/2018	NZDPLN	9:30:00 AM	2.5776	2.5785			N/A
12/19/2018	NZDPLN	11:30:00 AM	2.5745	2.5746			N/A
12/19/2018	NZDPLN	1:30:00 PM	2.5768	2.578			N/A
12/19/2018	NZDPLN	3:30:00 PM	2.573	2.5738			N/A
12/19/2018	NZDSEK	9:30:00 AM	6.2026	6.2094			N/A
12/19/2018	NZDSEK	11:30:00 AM	6.205	6.21			N/A
12/19/2018	NZDSEK	1:30:00 PM	6.2085	6.2135			N/A
12/19/2018	NZDSEK	3:30:00 PM	6.2083	6.2145			N/A
12/19/2018	NZDSGD	9:30:00 AM	0.9394	0.94			N/A
12/19/2018	NZDSGD	11:30:00 AM	0.9389	0.9395			N/A
12/19/2018	NZDSGD	1:30:00 PM	0.9393	0.9399			N/A
12/19/2018	NZDSGD	3:30:00 PM	0.9388	0.9392			N/A
12/19/2018	NZDUSD	9:30:00 AM	0.68622	0.68631			N/A
12/19/2018	NZDUSD	11:30:00 AM	0.68595	0.68605			N/A
12/19/2018	NZDUSD	1:30:00 PM	0.68586	0.68594			N/A
12/19/2018	NZDUSD	3:30:00 PM	0.68542	0.68542			N/A
12/19/2018	NZDZAR	9:30:00 AM	9.7657	9.7806			N/A
12/19/2018	NZDZAR	11:30:00 AM	9.7908	9.7994			N/A
12/19/2018	NZDZAR	1:30:00 PM	9.7865	9.8018			N/A
12/19/2018	NZDZAR	3:30:00 PM	9.7604	9.7767			N/A
12/19/2018	SEKJPY	9:30:00 AM	12.43	12.44			N/A
12/19/2018	SEKJPY	11:30:00 AM	12.41	12.42			N/A
12/19/2018	SEKJPY	1:30:00 PM	12.41	12.41			N/A
12/19/2018	SEKJPY	3:30:00 PM	12.39	12.4			N/A
12/19/2018	SGDJPY	9:30:00 AM	82.07	82.1			N/A
12/19/2018	SGDJPY	11:30:00 AM	82.04	82.06			N/A
12/19/2018	SGDJPY	1:30:00 PM	82.01	82.03			N/A
12/19/2018	SGDJPY	3:30:00 PM	81.99	82.01			N/A
12/19/2018	SILVER	9:30:00 AM	14.5	14.89			N/A
12/19/2018	SILVER	11:30:00 AM	14.51	14.89			N/A
12/19/2018	SILVER	1:30:00 PM	14.48	14.87			N/A

12/19/2018	SILVER	3:30:00 PM	14.47	14.86			N/A
12/19/2018	USDCAD	9:30:00 AM	1.34583	1.34589			N/A
12/19/2018	USDCAD	11:30:00 AM	1.34705	1.34704			N/A
12/19/2018	USDCAD	1:30:00 PM	1.34557	1.34558			N/A
12/19/2018	USDCAD	3:30:00 PM	1.34626	1.34466		20000	N/A
12/19/2018	USDCHF	9:30:00 AM	0.99219	0.99223			N/A
12/19/2018	USDCHF	11:30:00 AM	0.99157	0.99168			N/A
12/19/2018	USDCHF	1:30:00 PM	0.99356	0.9935			N/A
12/19/2018	USDCHF	3:30:00 PM	0.99337	0.99336			N/A
12/19/2018	USDCZK	9:30:00 AM	22.581	22.598			N/A
12/19/2018	USDCZK	11:30:00 AM	22.565	22.583			N/A
12/19/2018	USDCZK	1:30:00 PM	22.59	22.608			N/A
12/19/2018	USDCZK	3:30:00 PM	22.595	22.615			N/A
12/19/2018	USDDKK	9:30:00 AM	6.5537	6.5565			N/A
12/19/2018	USDDKK	11:30:00 AM	6.5484	6.5514			N/A
12/19/2018	USDDKK	1:30:00 PM	6.5502	6.5529			N/A
12/19/2018	USDDKK	3:30:00 PM	6.5508	6.5539			N/A
12/19/2018	USDHKD	9:30:00 AM	7.8229	7.8233			N/A
12/19/2018	USDHKD	11:30:00 AM	7.8248	7.8249			N/A
12/19/2018	USDHKD	1:30:00 PM	7.8243	7.8246			N/A
12/19/2018	USDHKD	3:30:00 PM	7.8251	7.8252			N/A
12/19/2018	USDHUF	9:30:00 AM	282.73	283.09			N/A
12/19/2018	USDHUF	11:30:00 AM	282.58	283.05			N/A
12/19/2018	USDHUF	1:30:00 PM	282.93	283.34			N/A
12/19/2018	USDHUF	3:30:00 PM	283	283.44			N/A
12/19/2018	USDJPY	9:30:00 AM	112.408	112.412			N/A
12/19/2018	USDJPY	11:30:00 AM	112.341	112.349			N/A
12/19/2018	USDJPY	1:30:00 PM	112.359	112.367			N/A
12/19/2018	USDJPY	3:30:00 PM	112.349	112.353			N/A
12/19/2018	USDMXN	9:30:00 AM	20.059	20.065			N/A
12/19/2018	USDMXN	11:30:00 AM	20.119	20.124			N/A
12/19/2018	USDMXN	1:30:00 PM	20.12	20.124			N/A
12/19/2018	USDMXN	3:30:00 PM	20.059	20.047			N/A
12/19/2018	USDNOK	9:30:00 AM	8.6976	8.7045			N/A
12/19/2018	USDNOK	11:30:00 AM	8.6969	8.7047			N/A
12/19/2018	USDNOK	1:30:00 PM	8.7038	8.7103			N/A
12/19/2018	USDNOK	3:30:00 PM	8.7131	8.7212			N/A
12/19/2018	USDPLN	9:30:00 AM	3.7574	3.7571			N/A
12/19/2018	USDPLN	11:30:00 AM	3.7549	3.756			N/A
12/19/2018	USDPLN	1:30:00 PM	3.759	3.7598			N/A
12/19/2018	USDPLN	3:30:00 PM	3.7564	3.7578			N/A
12/19/2018	USDRUR	9:30:00 AM					N/A
12/19/2018	USDRUR	11:30:00 AM	66.971	67.359			N/A
12/19/2018	USDRUR	1:30:00 PM	67.116	67.506			N/A
12/19/2018	USDRUR	3:30:00 PM	67.453	67.82			N/A
12/19/2018	USDSEK	9:30:00 AM	9.0439	9.0474			N/A
12/19/2018	USDSEK	11:30:00 AM	9.0504	9.054			N/A
12/19/2018	USDSEK	1:30:00 PM	9.0565	9.0576			N/A
12/19/2018	USDSEK	3:30:00 PM	9.0648	9.0678			N/A
12/19/2018	USDSGD	9:30:00 AM	1.369	1.3694			N/A

12/19/2018	USDSGD	11:30:00 AM	1.3688	1.3691			N/A
12/19/2018	USDSGD	1:30:00 PM	1.3696	1.3699			N/A
12/19/2018	USDSGD	3:30:00 PM	1.3697	1.37			N/A
12/19/2018	USDZAR	9:30:00 AM	14.2432	14.2579			N/A
12/19/2018	USDZAR	11:30:00 AM	14.2845	14.2951			N/A
12/19/2018	USDZAR	1:30:00 PM	14.279	14.2936			N/A
12/19/2018	USDZAR	3:30:00 PM	14.2543	14.2726			N/A
12/19/2018	XAUUSD	9:30:00 AM	1250.25	1250.45			N/A
12/19/2018	XAUUSD	11:30:00 AM	1249.68	1249.9			N/A
12/19/2018	XAUUSD	1:30:00 PM	1247.98	1248.19			N/A
12/19/2018	XAUUSD	3:30:00 PM	1248.25	1248.32			N/A
12/19/2018	ZARJPY	9:30:00 AM	7.87	7.89			N/A
12/19/2018	ZARJPY	11:30:00 AM	7.85	7.86			N/A
12/19/2018	ZARJPY	1:30:00 PM	7.85	7.89			N/A
12/19/2018	ZARJPY	3:30:00 PM	7.86	7.88			N/A
12/20/2018	#AA	9:30:00 AM					N/A
12/20/2018	#AA	11:30:00 AM					N/A
12/20/2018	#AA	1:30:00 PM					N/A
12/20/2018	#AA	3:30:00 PM					N/A
12/20/2018	#AABA	9:30:00 AM					N/A
12/20/2018	#AABA	11:30:00 AM					N/A
12/20/2018	#AABA	1:30:00 PM					N/A
12/20/2018	#AABA	3:30:00 PM					N/A
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12/20/2018	#AAL	11:30:00 AM					N/A
12/20/2018	#AAL	1:30:00 PM					N/A
12/20/2018	#AAL	3:30:00 PM					N/A
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12/20/2018	#AAPL	11:30:00 AM					N/A
12/20/2018	#AAPL	1:30:00 PM					N/A
12/20/2018	#AAPL	3:30:00 PM					N/A
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12/20/2018	#ADBE	11:30:00 AM					N/A
12/20/2018	#ADBE	1:30:00 PM					N/A
12/20/2018	#ADBE	3:30:00 PM					N/A
12/20/2018	#AIG	9:30:00 AM					N/A
12/20/2018	#AIG	11:30:00 AM					N/A
12/20/2018	#AIG	1:30:00 PM					N/A
12/20/2018	#AIG	3:30:00 PM					N/A
12/20/2018	#AMD	9:30:00 AM					N/A
12/20/2018	#AMD	11:30:00 AM					N/A
12/20/2018	#AMD	1:30:00 PM					N/A
12/20/2018	#AMD	3:30:00 PM					N/A
12/20/2018	#AMZN	9:30:00 AM					N/A
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12/20/2018	#AMZN	3:30:00 PM					N/A
12/20/2018	#AXP	9:30:00 AM					N/A
12/20/2018	#AXP	11:30:00 AM					N/A
12/20/2018	#AXP	1:30:00 PM					N/A

12/20/2018	#AXP	3:30:00 PM					N/A
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12/20/2018	#BA	11:30:00 AM					N/A
12/20/2018	#BA	1:30:00 PM					N/A
12/20/2018	#BA	3:30:00 PM					N/A
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12/20/2018	#BABA	11:30:00 AM					N/A
12/20/2018	#BABA	1:30:00 PM					N/A
12/20/2018	#BABA	3:30:00 PM					N/A
12/20/2018	#BAC	9:30:00 AM					N/A
12/20/2018	#BAC	11:30:00 AM					N/A
12/20/2018	#BAC	1:30:00 PM					N/A
12/20/2018	#BAC	3:30:00 PM					N/A
12/20/2018	#BARC	9:30:00 AM					N/A
12/20/2018	#BARC	11:30:00 AM					N/A
12/20/2018	#BARC	1:30:00 PM					N/A
12/20/2018	#BARC	3:30:00 PM					N/A
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12/20/2018	#BHP	11:30:00 AM					N/A
12/20/2018	#BHP	1:30:00 PM					N/A
12/20/2018	#BHP	3:30:00 PM					N/A
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12/20/2018	#BIDU	11:30:00 AM					N/A
12/20/2018	#BIDU	1:30:00 PM					N/A
12/20/2018	#BIDU	3:30:00 PM					N/A
12/20/2018	#BK	9:30:00 AM					N/A
12/20/2018	#BK	11:30:00 AM					N/A
12/20/2018	#BK	1:30:00 PM					N/A
12/20/2018	#BK	3:30:00 PM					N/A
12/20/2018	#BLT	9:30:00 AM					N/A
12/20/2018	#BLT	11:30:00 AM					N/A
12/20/2018	#BLT	1:30:00 PM					N/A
12/20/2018	#BLT	3:30:00 PM					N/A
12/20/2018	#BP	9:30:00 AM					N/A
12/20/2018	#BP	11:30:00 AM					N/A
12/20/2018	#BP	1:30:00 PM					N/A
12/20/2018	#BP	3:30:00 PM					N/A
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12/20/2018	#BTA	11:30:00 AM					N/A
12/20/2018	#BTA	1:30:00 PM					N/A
12/20/2018	#BTA	3:30:00 PM					N/A
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12/20/2018	#C	1:30:00 PM					N/A
12/20/2018	#C	3:30:00 PM					N/A
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12/20/2018	#CAT	1:30:00 PM					N/A
12/20/2018	#CAT	3:30:00 PM					N/A
12/20/2018	#CHL	9:30:00 AM					N/A

12/20/2018	#CHL	11:30:00 AM					N/A
12/20/2018	#CHL	1:30:00 PM					N/A
12/20/2018	#CHL	3:30:00 PM					N/A
12/20/2018	#CMCSA	9:30:00 AM					N/A
12/20/2018	#CMCSA	11:30:00 AM					N/A
12/20/2018	#CMCSA	1:30:00 PM					N/A
12/20/2018	#CMCSA	3:30:00 PM					N/A
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12/20/2018	#CSCO	11:30:00 AM					N/A
12/20/2018	#CSCO	1:30:00 PM					N/A
12/20/2018	#CSCO	3:30:00 PM					N/A
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12/20/2018	#DD	1:30:00 PM					N/A
12/20/2018	#DD	3:30:00 PM					N/A
12/20/2018	#DIS	9:30:00 AM					N/A
12/20/2018	#DIS	11:30:00 AM					N/A
12/20/2018	#DIS	1:30:00 PM					N/A
12/20/2018	#DIS	3:30:00 PM					N/A
12/20/2018	#DWDP	9:30:00 AM					N/A
12/20/2018	#DWDP	11:30:00 AM					N/A
12/20/2018	#DWDP	1:30:00 PM					N/A
12/20/2018	#DWDP	3:30:00 PM					N/A
12/20/2018	#EBAY	9:30:00 AM					N/A
12/20/2018	#EBAY	11:30:00 AM					N/A
12/20/2018	#EBAY	1:30:00 PM					N/A
12/20/2018	#EBAY	3:30:00 PM					N/A
12/20/2018	#F	9:30:00 AM					N/A
12/20/2018	#F	11:30:00 AM					N/A
12/20/2018	#F	1:30:00 PM					N/A
12/20/2018	#F	3:30:00 PM					N/A
12/20/2018	#FB	9:30:00 AM					N/A
12/20/2018	#FB	11:30:00 AM					N/A
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12/20/2018	AUDCZK	1:30:00 PM	16.023	16.038			N/A
12/20/2018	AUDCZK	3:30:00 PM	16.037	16.051			N/A
12/20/2018	AUDDKK	9:30:00 AM	4.6436	4.6465			N/A
12/20/2018	AUDDKK	11:30:00 AM	4.6382	4.6421			N/A
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12/20/2018	AUDHKD	9:30:00 AM	5.5594	5.5613			N/A
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12/20/2018	AUDNZD	1:30:00 PM	1.05235	1.05323			N/A
12/20/2018	AUDNZD	3:30:00 PM	1.05207	1.053			N/A
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12/20/2018	AUDPLN	1:30:00 PM	2.6688	2.6717			N/A
12/20/2018	AUDPLN	3:30:00 PM	2.6692	2.6722			N/A
12/20/2018	AUDSEK	9:30:00 AM	6.4396	6.4401			N/A
12/20/2018	AUDSEK	11:30:00 AM	6.3857	6.3863			N/A
12/20/2018	AUDSEK	1:30:00 PM	6.3828	6.3831			N/A
12/20/2018	AUDSEK	3:30:00 PM	6.4003	6.4001			N/A
12/20/2018	AUDSGD	9:30:00 AM	0.9741	0.9741			N/A
12/20/2018	AUDSGD	11:30:00 AM	0.9756	0.9758			N/A
12/20/2018	AUDSGD	1:30:00 PM	0.9766	0.9768			N/A
12/20/2018	AUDSGD	3:30:00 PM	0.9769	0.9772			N/A
12/20/2018	AUDUSD	9:30:00 AM	0.71069	0.71047			N/A
12/20/2018	AUDUSD	11:30:00 AM	0.71288	0.7129			N/A
12/20/2018	AUDUSD	1:30:00 PM	0.71428	0.71431			N/A
12/20/2018	AUDUSD	3:30:00 PM	0.71363	0.71369			N/A
12/20/2018	AUDZAR	9:30:00 AM	10.1566	10.1632			N/A
12/20/2018	AUDZAR	11:30:00 AM	10.1832	10.1951			N/A
12/20/2018	AUDZAR	1:30:00 PM	10.1511	10.1644			N/A
12/20/2018	AUDZAR	3:30:00 PM	10.1168	10.1268			N/A
12/20/2018	CADCHF	9:30:00 AM	0.73595	0.73642			N/A
12/20/2018	CADCHF	11:30:00 AM	0.73404	0.73455			N/A
12/20/2018	CADCHF	1:30:00 PM	0.73361	0.73423			N/A
12/20/2018	CADCHF	3:30:00 PM	0.73496	0.73544			N/A
12/20/2018	CADCZK	9:30:00 AM	16.693	16.708			N/A
12/20/2018	CADCZK	11:30:00 AM	16.65	16.66			N/A
12/20/2018	CADCZK	1:30:00 PM	16.672	16.686			N/A
12/20/2018	CADCZK	3:30:00 PM	16.701	16.715			N/A
12/20/2018	CADDKK	9:30:00 AM	4.845	4.849			N/A

12/20/2018	CADDDKK	11:30:00 AM	4.83	4.833			N/A
12/20/2018	CADDDKK	1:30:00 PM					N/A
12/20/2018	CADDDKK	3:30:00 PM	4.84	4.844			N/A
12/20/2018	CADHKD	9:30:00 AM	5.8003	5.8034			N/A
12/20/2018	CADHKD	11:30:00 AM	5.8089	5.8124			N/A
12/20/2018	CADHKD	1:30:00 PM	5.8132	5.8171			N/A
12/20/2018	CADHKD	3:30:00 PM	5.8144	5.8177			N/A
12/20/2018	CADHUF	9:30:00 AM	209.11	209.24			N/A
12/20/2018	CADHUF	11:30:00 AM	208.16	208.23			N/A
12/20/2018	CADHUF	1:30:00 PM	208.32	208.47			N/A
12/20/2018	CADHUF	3:30:00 PM	208.56	208.67			N/A
12/20/2018	CADJPY	9:30:00 AM	82.889	82.927			N/A
12/20/2018	CADJPY	11:30:00 AM	82.989	83.04			N/A
12/20/2018	CADJPY	1:30:00 PM	82.996	83.05			N/A
12/20/2018	CADJPY	3:30:00 PM	82.977	83.004			N/A
12/20/2018	CADMXN	9:30:00 AM	14.8561	14.8662			N/A
12/20/2018	CADMXN	11:30:00 AM	14.7932	14.803			N/A
12/20/2018	CADMXN	1:30:00 PM	14.731	14.741			N/A
12/20/2018	CADMXN	3:30:00 PM	14.7642	14.7734			N/A
12/20/2018	CADNOK	9:30:00 AM	6.4414	6.4447			N/A
12/20/2018	CADNOK	11:30:00 AM	6.4286	6.4302			N/A
12/20/2018	CADNOK	1:30:00 PM	6.4026	6.4058			N/A
12/20/2018	CADNOK	3:30:00 PM	6.4186	6.4221			N/A
12/20/2018	CADPLN	9:30:00 AM	2.7809	2.7828			N/A
12/20/2018	CADPLN	11:30:00 AM	2.7712	2.7725			N/A
12/20/2018	CADPLN	1:30:00 PM	2.7766	2.7784			N/A
12/20/2018	CADPLN	3:30:00 PM	2.7803	2.7813			N/A
12/20/2018	CADSEK	9:30:00 AM	6.7158	6.7178			N/A
12/20/2018	CADSEK	11:30:00 AM	6.6478	6.6489			N/A
12/20/2018	CADSEK	1:30:00 PM	6.6373	6.6398			N/A
12/20/2018	CADSEK	3:30:00 PM	6.6628	6.6623			N/A
12/20/2018	CADSGD	9:30:00 AM	1.0156	1.0159			N/A
12/20/2018	CADSGD	11:30:00 AM	1.0154	1.0157			N/A
12/20/2018	CADSGD	1:30:00 PM	1.0153	1.0156			N/A
12/20/2018	CADSGD	3:30:00 PM	1.0168	1.0171			N/A
12/20/2018	CADZAR	9:30:00 AM	10.5983	10.6045			N/A
12/20/2018	CADZAR	11:30:00 AM	10.6059	10.619			N/A
12/20/2018	CADZAR	1:30:00 PM	10.5614	10.5775			N/A
12/20/2018	CADZAR	3:30:00 PM	10.534	10.5483			N/A
12/20/2018	CHFCZK	9:30:00 AM	22.682	22.694			N/A
12/20/2018	CHFCZK	11:30:00 AM	22.683	22.69			N/A
12/20/2018	CHFCZK	1:30:00 PM	22.721	22.738			N/A
12/20/2018	CHFCZK	3:30:00 PM	22.726	22.736			N/A
12/20/2018	CHFDKK	9:30:00 AM	6.583	6.586			N/A
12/20/2018	CHFDKK	11:30:00 AM	6.581	6.584			N/A
12/20/2018	CHFDKK	1:30:00 PM	6.593	6.596			N/A
12/20/2018	CHFDKK	3:30:00 PM	6.587	6.589			N/A
12/20/2018	CHFHKD	9:30:00 AM	7.8803	7.8837			N/A
12/20/2018	CHFHKD	11:30:00 AM	7.9131	7.9139			N/A
12/20/2018	CHFHKD	1:30:00 PM	7.9225	7.9264			N/A

12/20/2018	CHFHKD	3:30:00 PM	7.9101	7.9123			N/A
12/20/2018	CHFHUF	9:30:00 AM	284	284.34			N/A
12/20/2018	CHFHUF	11:30:00 AM	283.49	283.71			N/A
12/20/2018	CHFHUF	1:30:00 PM	283.8	284.18			N/A
12/20/2018	CHFHUF	3:30:00 PM	283.64	283.92			N/A
12/20/2018	CHFJPY	9:30:00 AM	112.611	112.664			N/A
12/20/2018	CHFJPY	11:30:00 AM	113.052	113.102			N/A
12/20/2018	CHFJPY	1:30:00 PM	113.109	113.166			N/A
12/20/2018	CHFJPY	3:30:00 PM	112.875	112.928			N/A
12/20/2018	CHFMXN	9:30:00 AM	20.1843	20.1923			N/A
12/20/2018	CHFMXN	11:30:00 AM	20.149	20.1591			N/A
12/20/2018	CHFMXN	1:30:00 PM	20.0738	20.0887			N/A
12/20/2018	CHFMXN	3:30:00 PM	20.0869	20.0935			N/A
12/20/2018	CHFNOK	9:30:00 AM	8.7526	8.7599			N/A
12/20/2018	CHFNOK	11:30:00 AM	8.7616	8.7655			N/A
12/20/2018	CHFNOK	1:30:00 PM	8.7283	8.7325			N/A
12/20/2018	CHFNOK	3:30:00 PM	8.735	8.7415			N/A
12/20/2018	CHFPLN	9:30:00 AM	3.7786	3.7799			N/A
12/20/2018	CHFPLN	11:30:00 AM	3.775	3.7778			N/A
12/20/2018	CHFPLN	1:30:00 PM	3.7837	3.7866			N/A
12/20/2018	CHFPLN	3:30:00 PM	3.7809	3.7839			N/A
12/20/2018	CHFSEK	9:30:00 AM	9.1231	9.1271			N/A
12/20/2018	CHFSEK	11:30:00 AM	9.0536	9.0559			N/A
12/20/2018	CHFSEK	1:30:00 PM	9.0465	9.0478			N/A
12/20/2018	CHFSEK	3:30:00 PM	9.06	9.0641			N/A
12/20/2018	CHFSGD	9:30:00 AM	1.3803	1.3806			N/A
12/20/2018	CHFSGD	11:30:00 AM	1.3839	1.3839			N/A
12/20/2018	CHFSGD	1:30:00 PM	1.3844	1.3847			N/A
12/20/2018	CHFSGD	3:30:00 PM	1.3838	1.384			N/A
12/20/2018	CHFZAR	9:30:00 AM	14.4008	14.3997			N/A
12/20/2018	CHFZAR	11:30:00 AM	14.4502	14.4589			N/A
12/20/2018	CHFZAR	1:30:00 PM	14.3963	14.4083			N/A
12/20/2018	CHFZAR	3:30:00 PM	14.3361	14.3434			N/A
12/20/2018	CZKJPY	9:30:00 AM	4.964	4.967			N/A
12/20/2018	CZKJPY	11:30:00 AM	4.984	4.986			N/A
12/20/2018	CZKJPY	1:30:00 PM					N/A
12/20/2018	CZKJPY	3:30:00 PM	4.966	4.968			N/A
12/20/2018	DKKJPY	9:30:00 AM					N/A
12/20/2018	DKKJPY	11:30:00 AM	17.19	17.2			N/A
12/20/2018	DKKJPY	1:30:00 PM					N/A
12/20/2018	DKKJPY	3:30:00 PM	17.15	17.16			N/A
12/20/2018	EURAUD	9:30:00 AM	1.60672	1.60649			N/A
12/20/2018	EURAUD	11:30:00 AM	1.60838	1.60834			N/A
12/20/2018	EURAUD	1:30:00 PM	1.60444	1.60478			N/A
12/20/2018	EURAUD	3:30:00 PM	1.60441	1.60477			N/A
12/20/2018	EURCAD	9:30:00 AM	1.54033	1.54073			N/A
12/20/2018	EURCAD	11:30:00 AM	1.54469	1.54494			N/A
12/20/2018	EURCAD	1:30:00 PM	1.54264	1.54321			N/A
12/20/2018	EURCAD	3:30:00 PM	1.54137	1.54167			N/A
12/20/2018	EURCHF	9:30:00 AM	1.1341	1.13407			N/A

12/20/2018	EURCHF	11:30:00 AM	1.13448	1.13443			N/A
12/20/2018	EURCHF	1:30:00 PM	1.13238	1.13247			N/A
12/20/2018	EURCHF	3:30:00 PM	1.13331	1.13338			N/A
12/20/2018	EURCZK	9:30:00 AM	25.708	25.744			N/A
12/20/2018	EURCZK	11:30:00 AM	25.717	25.748			N/A
12/20/2018	EURCZK	1:30:00 PM	25.716	25.753			N/A
12/20/2018	EURCZK	3:30:00 PM	25.742	25.776			N/A
12/20/2018	EURDKK	9:30:00 AM	7.4667	7.468			N/A
12/20/2018	EURDKK	11:30:00 AM	7.4656	7.4669			N/A
12/20/2018	EURDKK	1:30:00 PM					N/A
12/20/2018	EURDKK	3:30:00 PM	7.4664	7.4667			N/A
12/20/2018	EURGBP	9:30:00 AM	0.90191	0.90192			N/A
12/20/2018	EURGBP	11:30:00 AM	0.90424	0.90387			N/A
12/20/2018	EURGBP	1:30:00 PM	0.90307	0.90305			N/A
12/20/2018	EURGBP	3:30:00 PM	0.90341	0.90343			N/A
12/20/2018	EURHKD	9:30:00 AM	8.9376	8.941			N/A
12/20/2018	EURHKD	11:30:00 AM	8.9771	8.9782			N/A
12/20/2018	EURHKD	1:30:00 PM	8.9724	8.9758			N/A
12/20/2018	EURHKD	3:30:00 PM	8.9655	8.9681			N/A
12/20/2018	EURHUF	9:30:00 AM	322.11	322.79			N/A
12/20/2018	EURHUF	11:30:00 AM	321.6	322.3			N/A
12/20/2018	EURHUF	1:30:00 PM	321.38	322.11			N/A
12/20/2018	EURHUF	3:30:00 PM	321.47	321.95			N/A
12/20/2018	EURJPY	9:30:00 AM	127.753	127.729	10	10	N/A
12/20/2018	EURJPY	11:30:00 AM	128.279	128.257			N/A
12/20/2018	EURJPY	1:30:00 PM	128.122	128.107			N/A
12/20/2018	EURJPY	3:30:00 PM	127.948	127.938			N/A
12/20/2018	EURMXN	9:30:00 AM	22.8909	22.9025			N/A
12/20/2018	EURMXN	11:30:00 AM	22.86	22.872			N/A
12/20/2018	EURMXN	1:30:00 PM	22.7317	22.749			N/A
12/20/2018	EURMXN	3:30:00 PM	22.7671	22.7763			N/A
12/20/2018	EURNOK	9:30:00 AM	9.9241	9.936			N/A
12/20/2018	EURNOK	11:30:00 AM	9.9371	9.946			N/A
12/20/2018	EURNOK	1:30:00 PM	9.8821	9.8904			N/A
12/20/2018	EURNOK	3:30:00 PM	9.8978	9.908			N/A
12/20/2018	EURNZD	9:30:00 AM	1.6955	1.69594			N/A
12/20/2018	EURNZD	11:30:00 AM	1.6963	1.69668			N/A
12/20/2018	EURNZD	1:30:00 PM	1.68963	1.69031			N/A
12/20/2018	EURNZD	3:30:00 PM	1.68919	1.68986			N/A
12/20/2018	EURPLN	9:30:00 AM	4.2851	4.2869			N/A
12/20/2018	EURPLN	11:30:00 AM	4.2826	4.2856			N/A
12/20/2018	EURPLN	1:30:00 PM	4.2849	4.2879			N/A
12/20/2018	EURPLN	3:30:00 PM	4.2851	4.288			N/A
12/20/2018	EURRUR	9:30:00 AM					N/A
12/20/2018	EURRUR	11:30:00 AM	77.055	77.46			N/A
12/20/2018	EURRUR	1:30:00 PM	76.909	77.321			N/A
12/20/2018	EURRUR	3:30:00 PM	77.204	77.629			N/A
12/20/2018	EURSEK	9:30:00 AM	10.3503	10.3539			N/A
12/20/2018	EURSEK	11:30:00 AM	10.2751	10.2776			N/A
12/20/2018	EURSEK	1:30:00 PM	10.2475	10.2481			N/A

12/20/2018	EURSEK	3:30:00 PM	10.2754	10.2754			N/A
12/20/2018	EURSGD	9:30:00 AM	1.5652	1.566			N/A
12/20/2018	EURSGD	11:30:00 AM	1.5697	1.5699			N/A
12/20/2018	EURSGD	1:30:00 PM	1.5675	1.5682			N/A
12/20/2018	EURSGD	3:30:00 PM	1.5682	1.5687			N/A
12/20/2018	EURUSD	9:30:00 AM	1.14195	1.14184			N/A
12/20/2018	EURUSD	11:30:00 AM	1.14704	1.14663			N/A
12/20/2018	EURUSD	1:30:00 PM	1.14648	1.14641			N/A
12/20/2018	EURUSD	3:30:00 PM	1.14554	1.14532			N/A
12/20/2018	EURZAR	9:30:00 AM	16.3379	16.3371			N/A
12/20/2018	EURZAR	11:30:00 AM	16.4017	16.4118			N/A
12/20/2018	EURZAR	1:30:00 PM	16.3055	16.3222			N/A
12/20/2018	EURZAR	3:30:00 PM	16.2512	16.2659			N/A
12/20/2018	GBPAUD	9:30:00 AM	1.78211	1.78205			N/A
12/20/2018	GBPAUD	11:30:00 AM	1.77973	1.77945			N/A
12/20/2018	GBPAUD	1:30:00 PM	1.77714	1.77777			N/A
12/20/2018	GBPAUD	3:30:00 PM	1.7764	1.77712			N/A
12/20/2018	GBPCAD	9:30:00 AM	1.70795	1.70817			N/A
12/20/2018	GBPCAD	11:30:00 AM	1.70884	1.7084			N/A
12/20/2018	GBPCAD	1:30:00 PM	1.70822	1.70875			N/A
12/20/2018	GBPCAD	3:30:00 PM	1.7061	1.70659			N/A
12/20/2018	GBPCHF	9:30:00 AM	1.25731	1.25765			N/A
12/20/2018	GBPCHF	11:30:00 AM	1.25491	1.25457			N/A
12/20/2018	GBPCHF	1:30:00 PM	1.25383	1.25412			N/A
12/20/2018	GBPCHF	3:30:00 PM	1.25432	1.2547			N/A
12/20/2018	GBPCZK	9:30:00 AM	28.516	28.532			N/A
12/20/2018	GBPCZK	11:30:00 AM	28.456	28.459			N/A
12/20/2018	GBPCZK	1:30:00 PM	28.487	28.505			N/A
12/20/2018	GBPCZK	3:30:00 PM	28.502	28.521			N/A
12/20/2018	GBPDKK	9:30:00 AM	8.275	8.285			N/A
12/20/2018	GBPDKK	11:30:00 AM	8.256	8.264			N/A
12/20/2018	GBPDKK	1:30:00 PM	8.264	8.274			N/A
12/20/2018	GBPDKK	3:30:00 PM	8.26	8.27			N/A
12/20/2018	GBPHKD	9:30:00 AM	9.907	9.9115			N/A
12/20/2018	GBPHKD	11:30:00 AM	9.927	9.9238			N/A
12/20/2018	GBPHKD	1:30:00 PM	9.9321	9.937			N/A
12/20/2018	GBPHKD	3:30:00 PM	9.9203	9.9253			N/A
12/20/2018	GBPHUF	9:30:00 AM	357.04	357.47			N/A
12/20/2018	GBPHUF	11:30:00 AM	355.65	355.84			N/A
12/20/2018	GBPHUF	1:30:00 PM	355.82	356.24			N/A
12/20/2018	GBPHUF	3:30:00 PM	355.77	356.1			N/A
12/20/2018	GBPJPY	9:30:00 AM	141.614	141.629			N/A
12/20/2018	GBPJPY	11:30:00 AM	141.894	141.834			N/A
12/20/2018	GBPJPY	1:30:00 PM	141.836	141.862			N/A
12/20/2018	GBPJPY	3:30:00 PM	141.615	141.617			N/A
12/20/2018	GBPMXN	9:30:00 AM	25.3787	25.3857			N/A
12/20/2018	GBPMXN	11:30:00 AM	25.2863	25.2768			N/A
12/20/2018	GBPMXN	1:30:00 PM	25.1702	25.1808			N/A
12/20/2018	GBPMXN	3:30:00 PM	25.1948	25.2017			N/A
12/20/2018	GBPNOK	9:30:00 AM	11.0036	11.0142			N/A

12/20/2018	GBPNOK	11:30:00 AM	10.9952	10.9967			N/A
12/20/2018	GBPNOK	1:30:00 PM	10.9421	10.9488			N/A
12/20/2018	GBPNOK	3:30:00 PM	10.9565	10.9656			N/A
12/20/2018	GBPNZD	9:30:00 AM	1.88004	1.88027			N/A
12/20/2018	GBPNZD	11:30:00 AM	1.87656	1.87611			N/A
12/20/2018	GBPNZD	1:30:00 PM	1.87099	1.87167			N/A
12/20/2018	GBPNZD	3:30:00 PM	1.8698	1.87055			N/A
12/20/2018	GBPPLN	9:30:00 AM	4.7523	4.752			N/A
12/20/2018	GBPPLN	11:30:00 AM	4.7393	4.7385			N/A
12/20/2018	GBPPLN	1:30:00 PM	4.7459	4.7472			N/A
12/20/2018	GBPPLN	3:30:00 PM	4.7443	4.7456			N/A
12/20/2018	GBPSEK	9:30:00 AM	11.4726	11.4806			N/A
12/20/2018	GBPSEK	11:30:00 AM	11.3653	11.3663			N/A
12/20/2018	GBPSEK	1:30:00 PM	11.3438	11.3481			N/A
12/20/2018	GBPSEK	3:30:00 PM	11.3716	11.3736			N/A
12/20/2018	GBPSGD	9:30:00 AM	1.7357	1.736			N/A
12/20/2018	GBPSGD	11:30:00 AM	1.7364	1.7359			N/A
12/20/2018	GBPSGD	1:30:00 PM	1.7358	1.7364			N/A
12/20/2018	GBPSGD	3:30:00 PM	1.7357	1.7364			N/A
12/20/2018	GBPUSD	9:30:00 AM	1.26631	1.26618			N/A
12/20/2018	GBPUSD	11:30:00 AM	1.26903	1.26805			N/A
12/20/2018	GBPUSD	1:30:00 PM	1.26964	1.26958			N/A
12/20/2018	GBPUSD	3:30:00 PM	1.26808	1.268			N/A
12/20/2018	GBPZAR	9:30:00 AM	18.1107	18.1193			N/A
12/20/2018	GBPZAR	11:30:00 AM	18.1427	18.1518			N/A
12/20/2018	GBPZAR	1:30:00 PM	18.0519	18.0773			N/A
12/20/2018	GBPZAR	3:30:00 PM	17.9826	18.0108			N/A
12/20/2018	GOLD	9:30:00 AM	1247.92	1248.04			N/A
12/20/2018	GOLD	11:30:00 AM	1252.94	1253.03			N/A
12/20/2018	GOLD	1:30:00 PM	1255.5	1255.73			N/A
12/20/2018	GOLD	3:30:00 PM	1255.92	1255.54			N/A
12/20/2018	HKDJPY	9:30:00 AM	14.29	14.3			N/A
12/20/2018	HKDJPY	11:30:00 AM	14.29	14.29			N/A
12/20/2018	HKDJPY	1:30:00 PM	14.27	14.28			N/A
12/20/2018	HKDJPY	3:30:00 PM	14.27	14.27			N/A
12/20/2018	HUFJPY	9:30:00 AM	0.3964	0.3967			N/A
12/20/2018	HUFJPY	11:30:00 AM					N/A
12/20/2018	HUFJPY	1:30:00 PM	0.3986	0.3989			N/A
12/20/2018	HUFJPY	3:30:00 PM	0.3979	0.3982			N/A
12/20/2018	MXNJPY	9:30:00 AM	5.58	5.58			N/A
12/20/2018	MXNJPY	11:30:00 AM	5.61	5.62			N/A
12/20/2018	MXNJPY	1:30:00 PM					N/A
12/20/2018	MXNJPY	3:30:00 PM	5.62	5.62			N/A
12/20/2018	NOKJPY	9:30:00 AM	12.85	12.88			N/A
12/20/2018	NOKJPY	11:30:00 AM	12.89	12.92			N/A
12/20/2018	NOKJPY	1:30:00 PM	12.96	12.97			N/A
12/20/2018	NOKJPY	3:30:00 PM	12.91	12.94			N/A
12/20/2018	NZDCAD	9:30:00 AM	0.90817	0.90876			N/A
12/20/2018	NZDCAD	11:30:00 AM	0.9103	0.91096			N/A
12/20/2018	NZDCAD	1:30:00 PM	0.91267	0.91329			N/A

12/20/2018	NZDCAD	3:30:00 PM	0.91215	0.91263			N/A
12/20/2018	NZDCHF	9:30:00 AM	0.66857	0.66907			N/A
12/20/2018	NZDCHF	11:30:00 AM	0.66837	0.66896			N/A
12/20/2018	NZDCHF	1:30:00 PM	0.66972	0.67042			N/A
12/20/2018	NZDCHF	3:30:00 PM	0.67044	0.67113			N/A
12/20/2018	NZDCZK	9:30:00 AM	15.166	15.175			N/A
12/20/2018	NZDCZK	11:30:00 AM	15.162	15.17			N/A
12/20/2018	NZDCZK	1:30:00 PM	15.222	15.232			N/A
12/20/2018	NZDCZK	3:30:00 PM	15.238	15.25			N/A
12/20/2018	NZDDKK	9:30:00 AM					N/A
12/20/2018	NZDDKK	11:30:00 AM	4.398	4.401			N/A
12/20/2018	NZDDKK	1:30:00 PM					N/A
12/20/2018	NZDDKK	3:30:00 PM	4.416	4.42			N/A
12/20/2018	NZDHKD	9:30:00 AM	5.2691	5.271			N/A
12/20/2018	NZDHKD	11:30:00 AM	5.2884	5.2913			N/A
12/20/2018	NZDHKD	1:30:00 PM	5.3069	5.3098			N/A
12/20/2018	NZDHKD	3:30:00 PM	5.3035	5.3065			N/A
12/20/2018	NZDHUF	9:30:00 AM	189.87	190.13			N/A
12/20/2018	NZDHUF	11:30:00 AM	189.47	189.68			N/A
12/20/2018	NZDHUF	1:30:00 PM	190.11	190.38			N/A
12/20/2018	NZDHUF	3:30:00 PM	190.2	190.41			N/A
12/20/2018	NZDJPY	9:30:00 AM	75.301	75.339			N/A
12/20/2018	NZDJPY	11:30:00 AM	75.564	75.625			N/A
12/20/2018	NZDJPY	1:30:00 PM	75.765	75.827			N/A
12/20/2018	NZDJPY	3:30:00 PM	75.69	75.743			N/A
12/20/2018	NZDMXN	9:30:00 AM	13.496	13.5			N/A
12/20/2018	NZDMXN	11:30:00 AM	13.4708	13.4749			N/A
12/20/2018	NZDMXN	1:30:00 PM	13.4496	13.4541			N/A
12/20/2018	NZDMXN	3:30:00 PM	13.4708	13.4733			N/A
12/20/2018	NZDNOK	9:30:00 AM	5.851	5.8539			N/A
12/20/2018	NZDNOK	11:30:00 AM	5.8534	5.8547			N/A
12/20/2018	NZDNOK	1:30:00 PM	5.8458	5.8471			N/A
12/20/2018	NZDNOK	3:30:00 PM	5.8556	5.8573			N/A
12/20/2018	NZDPLN	9:30:00 AM	2.5265	2.5278			N/A
12/20/2018	NZDPLN	11:30:00 AM	2.5231	2.5242			N/A
12/20/2018	NZDPLN	1:30:00 PM	2.5348	2.5361			N/A
12/20/2018	NZDPLN	3:30:00 PM	2.5361	2.5375			N/A
12/20/2018	NZDSEK	9:30:00 AM	6.098	6.1045			N/A
12/20/2018	NZDSEK	11:30:00 AM	6.0503	6.0556			N/A
12/20/2018	NZDSEK	1:30:00 PM	6.0581	6.0625			N/A
12/20/2018	NZDSEK	3:30:00 PM	6.0747	6.08			N/A
12/20/2018	NZDSGD	9:30:00 AM	0.9232	0.9235			N/A
12/20/2018	NZDSGD	11:30:00 AM	0.9251	0.9257			N/A
12/20/2018	NZDSGD	1:30:00 PM	0.9275	0.9281			N/A
12/20/2018	NZDSGD	3:30:00 PM	0.928	0.9286			N/A
12/20/2018	NZDUSD	9:30:00 AM	0.67351	0.67339			N/A
12/20/2018	NZDUSD	11:30:00 AM	0.67602	0.67611			N/A
12/20/2018	NZDUSD	1:30:00 PM	0.67841	0.67847			N/A
12/20/2018	NZDUSD	3:30:00 PM	0.67793	0.67803			N/A
12/20/2018	NZDZAR	9:30:00 AM	9.6256	9.632			N/A

12/20/2018	NZDZAR	11:30:00 AM	9.6559	9.6695			N/A
12/20/2018	NZDZAR	1:30:00 PM	9.6402	9.6556			N/A
12/20/2018	NZDZAR	3:30:00 PM	9.6092	9.6226			N/A
12/20/2018	SEKJPY	9:30:00 AM	12.34	12.35			N/A
12/20/2018	SEKJPY	11:30:00 AM	12.49	12.49			N/A
12/20/2018	SEKJPY	1:30:00 PM	12.5	12.51			N/A
12/20/2018	SEKJPY	3:30:00 PM	12.45	12.46			N/A
12/20/2018	SGDJPY	9:30:00 AM	81.56	81.57			N/A
12/20/2018	SGDJPY	11:30:00 AM	81.67	81.69			N/A
12/20/2018	SGDJPY	1:30:00 PM	81.68	81.7			N/A
12/20/2018	SGDJPY	3:30:00 PM	81.57	81.55			N/A
12/20/2018	SILVER	9:30:00 AM	14.43	14.8			N/A
12/20/2018	SILVER	11:30:00 AM	14.51	14.9			N/A
12/20/2018	SILVER	1:30:00 PM	14.55	14.93			N/A
12/20/2018	SILVER	3:30:00 PM	14.55	14.92			N/A
12/20/2018	USDCAD	9:30:00 AM	1.34919	1.34892			N/A
12/20/2018	USDCAD	11:30:00 AM	1.347	1.34705			N/A
12/20/2018	USDCAD	1:30:00 PM	1.34593	1.34571			N/A
12/20/2018	USDCAD	3:30:00 PM	1.3458	1.34576			N/A
12/20/2018	USDCHF	9:30:00 AM	0.99307	0.9931			N/A
12/20/2018	USDCHF	11:30:00 AM	0.98913	0.98886			N/A
12/20/2018	USDCHF	1:30:00 PM	0.98762	0.98767			N/A
12/20/2018	USDCHF	3:30:00 PM	0.98935	0.98925			N/A
12/20/2018	USDCZK	9:30:00 AM	22.54	22.558			N/A
12/20/2018	USDCZK	11:30:00 AM	22.447	22.46			N/A
12/20/2018	USDCZK	1:30:00 PM	22.455	22.473			N/A
12/20/2018	USDCZK	3:30:00 PM	22.498	22.516			N/A
12/20/2018	USDDKK	9:30:00 AM	6.537	6.5391			N/A
12/20/2018	USDDKK	11:30:00 AM	6.5093	6.5104			N/A
12/20/2018	USDDKK	1:30:00 PM	6.5112	6.5133			N/A
12/20/2018	USDDKK	3:30:00 PM	6.5169	6.5184			N/A
12/20/2018	USDHKD	9:30:00 AM	7.8273	7.8277			N/A
12/20/2018	USDHKD	11:30:00 AM	7.8271	7.8274			N/A
12/20/2018	USDHKD	1:30:00 PM	7.8266	7.8269			N/A
12/20/2018	USDHKD	3:30:00 PM	7.8269	7.8273			N/A
12/20/2018	USDHUF	9:30:00 AM	282.07	282.46			N/A
12/20/2018	USDHUF	11:30:00 AM	280.45	280.79			N/A
12/20/2018	USDHUF	1:30:00 PM	280.32	280.75			N/A
12/20/2018	USDHUF	3:30:00 PM	280.67	281.07			N/A
12/20/2018	USDJPY	9:30:00 AM	111.843	111.835			N/A
12/20/2018	USDJPY	11:30:00 AM	111.814	111.8			N/A
12/20/2018	USDJPY	1:30:00 PM	111.711	111.722			N/A
12/20/2018	USDJPY	3:30:00 PM	111.688	111.653			N/A
12/20/2018	USDMXN	9:30:00 AM	20.05	20.05			N/A
12/20/2018	USDMXN	11:30:00 AM	19.936	19.939			N/A
12/20/2018	USDMXN	1:30:00 PM	19.832	19.837			N/A
12/20/2018	USDMXN	3:30:00 PM	19.877	19.881			N/A
12/20/2018	USDNOK	9:30:00 AM	8.6898	8.6969			N/A
12/20/2018	USDNOK	11:30:00 AM	8.6646	8.667			N/A
12/20/2018	USDNOK	1:30:00 PM	8.6186	8.6222			N/A

12/20/2018	USDNOK	3:30:00 PM	8.6405	8.6461			N/A
12/20/2018	USDPLN	9:30:00 AM	3.7532	3.7531			N/A
12/20/2018	USDPLN	11:30:00 AM	3.7351	3.7351			N/A
12/20/2018	USDPLN	1:30:00 PM	3.7379	3.7387			N/A
12/20/2018	USDPLN	3:30:00 PM	3.7416	3.7423			N/A
12/20/2018	USDRUR	9:30:00 AM					N/A
12/20/2018	USDRUR	11:30:00 AM	67.251	67.627			N/A
12/20/2018	USDRUR	1:30:00 PM	67.158	67.522			N/A
12/20/2018	USDRUR	3:30:00 PM	67.464	67.844			N/A
12/20/2018	USDSEK	9:30:00 AM	9.0603	9.0627			N/A
12/20/2018	USDSEK	11:30:00 AM	8.9575	8.9564			N/A
12/20/2018	USDSEK	1:30:00 PM	8.9349	8.9343			N/A
12/20/2018	USDSEK	3:30:00 PM	8.9681	8.9654			N/A
12/20/2018	USDSGD	9:30:00 AM	1.3708	1.371			N/A
12/20/2018	USDSGD	11:30:00 AM	1.3684	1.3687			N/A
12/20/2018	USDSGD	1:30:00 PM	1.3673	1.3675			N/A
12/20/2018	USDSGD	3:30:00 PM	1.3689	1.3692			N/A
12/20/2018	USDZAR	9:30:00 AM	14.3056	14.3057			N/A
12/20/2018	USDZAR	11:30:00 AM	14.2979	14.31			N/A
12/20/2018	USDZAR	1:30:00 PM	14.2213	14.2355			N/A
12/20/2018	USDZAR	3:30:00 PM	14.1841	14.2001			N/A
12/20/2018	XAUUSD	9:30:00 AM	1247.93	1247.97			N/A
12/20/2018	XAUUSD	11:30:00 AM	1252.94	1252.96			N/A
12/20/2018	XAUUSD	1:30:00 PM	1255.53	1255.75			N/A
12/20/2018	XAUUSD	3:30:00 PM	1255.93	1255.47			N/A
12/20/2018	ZARJPY	9:30:00 AM	7.8	7.82			N/A
12/20/2018	ZARJPY	11:30:00 AM	7.8	7.81			N/A
12/20/2018	ZARJPY	1:30:00 PM	7.82	7.85			N/A
12/20/2018	ZARJPY	3:30:00 PM	7.85	7.87			N/A
12/21/2018	#AA	9:30:00 AM					N/A
12/21/2018	#AA	11:30:00 AM					N/A
12/21/2018	#AA	1:30:00 PM					N/A
12/21/2018	#AA	3:30:00 PM					N/A
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12/21/2018	#AABA	11:30:00 AM					N/A
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12/21/2018	#AABA	3:30:00 PM					N/A
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12/21/2018	#BP	1:30:00 PM					N/A

12/21/2018	#BP	3:30:00 PM					N/A
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12/21/2018	#C	1:30:00 PM					N/A
12/21/2018	#C	3:30:00 PM					N/A
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12/21/2018	#CMCSA	3:30:00 PM					N/A
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12/21/2018	#CSCO	3:30:00 PM					N/A
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12/21/2018	#CVX	3:30:00 PM					N/A
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12/21/2018	#DD	1:30:00 PM					N/A
12/21/2018	#DD	3:30:00 PM					N/A
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12/21/2018	#DIS	1:30:00 PM					N/A
12/21/2018	#DIS	3:30:00 PM					N/A
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12/21/2018	#DWDP	1:30:00 PM					N/A
12/21/2018	#DWDP	3:30:00 PM					N/A
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12/21/2018	#F	3:30:00 PM					N/A
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12/21/2018	#FCX	9:30:00 AM					N/A
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12/21/2018	AUDCZK	3:30:00 PM	16.056	16.068			N/A
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12/21/2018	AUDJPY	3:30:00 PM	78.947	78.982			N/A
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12/21/2018	AUDSEK	1:30:00 PM	6.3841	6.3855			N/A
12/21/2018	AUDSEK	3:30:00 PM	6.3902	6.3917			N/A
12/21/2018	AUDSGD	9:30:00 AM	0.9738	0.974			N/A
12/21/2018	AUDSGD	11:30:00 AM	0.9699	0.9701			N/A
12/21/2018	AUDSGD	1:30:00 PM	0.9714	0.9715			N/A
12/21/2018	AUDSGD	3:30:00 PM	0.9726	0.9728			N/A
12/21/2018	AUDUSD	9:30:00 AM	0.71151	0.71158			N/A
12/21/2018	AUDUSD	11:30:00 AM	0.70788	0.70796		1000	N/A
12/21/2018	AUDUSD	1:30:00 PM	0.70907	0.70908			N/A

12/21/2018	AUDUSD	3:30:00 PM	0.70989	0.7099			N/A
12/21/2018	AUDZAR	9:30:00 AM	10.1622	10.1761			N/A
12/21/2018	AUDZAR	11:30:00 AM	10.2209	10.2275			N/A
12/21/2018	AUDZAR	1:30:00 PM	10.2328	10.2407			N/A
12/21/2018	AUDZAR	3:30:00 PM	10.2212	10.2353			N/A
12/21/2018	CADCHF	9:30:00 AM	0.73071	0.73144			N/A
12/21/2018	CADCHF	11:30:00 AM	0.73186	0.73246			N/A
12/21/2018	CADCHF	1:30:00 PM	0.73109	0.7316			N/A
12/21/2018	CADCHF	3:30:00 PM	0.73146	0.73126			N/A
12/21/2018	CADCZK	9:30:00 AM	16.639	16.656			N/A
12/21/2018	CADCZK	11:30:00 AM	16.698	16.711			N/A
12/21/2018	CADCZK	1:30:00 PM	16.676	16.684			N/A
12/21/2018	CADCZK	3:30:00 PM	16.705	16.695			N/A
12/21/2018	CADDDKK	9:30:00 AM					N/A
12/21/2018	CADDDKK	11:30:00 AM	4.834	4.838			N/A
12/21/2018	CADDDKK	1:30:00 PM	4.827	4.83			N/A
12/21/2018	CADDDKK	3:30:00 PM	4.828	4.824			N/A
12/21/2018	CADHKD	9:30:00 AM	5.7967	5.8005			N/A
12/21/2018	CADHKD	11:30:00 AM	5.7884	5.7921			N/A
12/21/2018	CADHKD	1:30:00 PM	5.7803	5.7842			N/A
12/21/2018	CADHKD	3:30:00 PM	5.7778	5.7744			N/A
12/21/2018	CADHUF	9:30:00 AM	207.66	207.82			N/A
12/21/2018	CADHUF	11:30:00 AM	208.24	208.29			N/A
12/21/2018	CADHUF	1:30:00 PM	208.07	208.13			N/A
12/21/2018	CADHUF	3:30:00 PM	208.02	207.89			N/A
12/21/2018	CADJPY	9:30:00 AM	82.425	82.481			N/A
12/21/2018	CADJPY	11:30:00 AM	82.259	82.315			N/A
12/21/2018	CADJPY	1:30:00 PM	82.095	82.123			N/A
12/21/2018	CADJPY	3:30:00 PM	82.089	82.045			N/A
12/21/2018	CADMXN	9:30:00 AM	14.7078	14.7204			N/A
12/21/2018	CADMXN	11:30:00 AM	14.7343	14.7439			N/A
12/21/2018	CADMXN	1:30:00 PM	14.7286	14.7364			N/A
12/21/2018	CADMXN	3:30:00 PM	14.7125	14.7003			N/A
12/21/2018	CADNOK	9:30:00 AM	6.4163	6.4201			N/A
12/21/2018	CADNOK	11:30:00 AM	6.4198	6.4217			N/A
12/21/2018	CADNOK	1:30:00 PM	6.4194	6.4221			N/A
12/21/2018	CADNOK	3:30:00 PM	6.4328	6.4277			N/A
12/21/2018	CADPLN	9:30:00 AM	2.7696	2.7707			N/A
12/21/2018	CADPLN	11:30:00 AM	2.7751	2.7766			N/A
12/21/2018	CADPLN	1:30:00 PM	2.7708	2.772			N/A
12/21/2018	CADPLN	3:30:00 PM	2.7683	2.7663			N/A
12/21/2018	CADSEK	9:30:00 AM	6.6419	6.6443			N/A
12/21/2018	CADSEK	11:30:00 AM	6.6536	6.6561			N/A
12/21/2018	CADSEK	1:30:00 PM	6.6498	6.6498			N/A
12/21/2018	CADSEK	3:30:00 PM	6.6443	6.6379			N/A
12/21/2018	CADSGD	9:30:00 AM	1.0134	1.0137			N/A
12/21/2018	CADSGD	11:30:00 AM	1.0128	1.0131			N/A
12/21/2018	CADSGD	1:30:00 PM	1.0113	1.0116			N/A
12/21/2018	CADSGD	3:30:00 PM	1.0105	1.0108			N/A
12/21/2018	CADZAR	9:30:00 AM	10.5828	10.6002			N/A

12/21/2018	CADZAR	11:30:00 AM	10.6804	10.6898			N/A
12/21/2018	CADZAR	1:30:00 PM	10.6596	10.6708			N/A
12/21/2018	CADZAR	3:30:00 PM	10.632	10.6346			N/A
12/21/2018	CHFCZK	9:30:00 AM	22.769	22.783			N/A
12/21/2018	CHFCZK	11:30:00 AM	22.811	22.826			N/A
12/21/2018	CHFCZK	1:30:00 PM	22.804	22.817			N/A
12/21/2018	CHFCZK	3:30:00 PM	22.83	22.836			N/A
12/21/2018	CHFDKK	9:30:00 AM	6.601	6.603			N/A
12/21/2018	CHFDKK	11:30:00 AM	6.605	6.607			N/A
12/21/2018	CHFDKK	1:30:00 PM	6.6	6.603			N/A
12/21/2018	CHFDKK	3:30:00 PM	6.6	6.602			N/A
12/21/2018	CHFHKD	9:30:00 AM	7.931	7.9349			N/A
12/21/2018	CHFHKD	11:30:00 AM	7.9081	7.912			N/A
12/21/2018	CHFHKD	1:30:00 PM	7.9066	7.9091			N/A
12/21/2018	CHFHKD	3:30:00 PM	7.897	7.9			N/A
12/21/2018	CHFHUF	9:30:00 AM	284.03	284.37			N/A
12/21/2018	CHFHUF	11:30:00 AM	284.35	284.62			N/A
12/21/2018	CHFHUF	1:30:00 PM	284.41	284.74			N/A
12/21/2018	CHFHUF	3:30:00 PM	284.2	284.54			N/A
12/21/2018	CHFJPY	9:30:00 AM	112.759	112.811			N/A
12/21/2018	CHFJPY	11:30:00 AM	112.365	112.425			N/A
12/21/2018	CHFJPY	1:30:00 PM	112.248	112.298			N/A
12/21/2018	CHFJPY	3:30:00 PM	112.201	112.24			N/A
12/21/2018	CHFMXN	9:30:00 AM	20.1202	20.1372			N/A
12/21/2018	CHFMXN	11:30:00 AM	20.1288	20.1395			N/A
12/21/2018	CHFMXN	1:30:00 PM	20.1446	20.1495			N/A
12/21/2018	CHFMXN	3:30:00 PM	20.1064	20.115			N/A
12/21/2018	CHFNOK	9:30:00 AM	8.7792	8.785			N/A
12/21/2018	CHFNOK	11:30:00 AM	8.7697	8.7772			N/A
12/21/2018	CHFNOK	1:30:00 PM	8.7784	8.7848			N/A
12/21/2018	CHFNOK	3:30:00 PM	8.7952	8.8008			N/A
12/21/2018	CHFPLN	9:30:00 AM	3.7893	3.7912			N/A
12/21/2018	CHFPLN	11:30:00 AM	3.7902	3.7925			N/A
12/21/2018	CHFPLN	1:30:00 PM	3.7893	3.7916			N/A
12/21/2018	CHFPLN	3:30:00 PM	3.7852	3.7875			N/A
12/21/2018	CHFSEK	9:30:00 AM	9.086	9.089			N/A
12/21/2018	CHFSEK	11:30:00 AM	9.0898	9.0914			N/A
12/21/2018	CHFSEK	1:30:00 PM	9.0926	9.0952			N/A
12/21/2018	CHFSEK	3:30:00 PM	9.0801	9.0827			N/A
12/21/2018	CHFSGD	9:30:00 AM	1.3872	1.3875			N/A
12/21/2018	CHFSGD	11:30:00 AM	1.3845	1.3847			N/A
12/21/2018	CHFSGD	1:30:00 PM	1.3838	1.384			N/A
12/21/2018	CHFSGD	3:30:00 PM	1.3822	1.3826			N/A
12/21/2018	CHFZAR	9:30:00 AM	14.4828	14.4973			N/A
12/21/2018	CHFZAR	11:30:00 AM	14.5938	14.5974			N/A
12/21/2018	CHFZAR	1:30:00 PM	14.5838	14.5866			N/A
12/21/2018	CHFZAR	3:30:00 PM	14.5356	14.5471			N/A
12/21/2018	CZKJPY	9:30:00 AM					N/A
12/21/2018	CZKJPY	11:30:00 AM					N/A
12/21/2018	CZKJPY	1:30:00 PM	4.923	4.925			N/A

12/21/2018	CZKJPY	3:30:00 PM	4.916	4.917			N/A
12/21/2018	DKKJPY	9:30:00 AM					N/A
12/21/2018	DKKJPY	11:30:00 AM					N/A
12/21/2018	DKKJPY	1:30:00 PM					N/A
12/21/2018	DKKJPY	3:30:00 PM					N/A
12/21/2018	EURAUD	9:30:00 AM	1.61029	1.61062			N/A
12/21/2018	EURAUD	11:30:00 AM	1.61264	1.61295			N/A
12/21/2018	EURAUD	1:30:00 PM	1.61056	1.6106			N/A
12/21/2018	EURAUD	3:30:00 PM	1.60717	1.6071			N/A
12/21/2018	EURCAD	9:30:00 AM	1.54676	1.54747			N/A
12/21/2018	EURCAD	11:30:00 AM	1.54376	1.54434			N/A
12/21/2018	EURCAD	1:30:00 PM	1.54651	1.54664			N/A
12/21/2018	EURCAD	3:30:00 PM	1.54743	1.54618			N/A
12/21/2018	EURCHF	9:30:00 AM	1.13105	1.131			N/A
12/21/2018	EURCHF	11:30:00 AM	1.1304	1.13034			N/A
12/21/2018	EURCHF	1:30:00 PM	1.1311	1.13109			N/A
12/21/2018	EURCHF	3:30:00 PM	1.13127	1.13117			N/A
12/21/2018	EURCZK	9:30:00 AM	25.737	25.777			N/A
12/21/2018	EURCZK	11:30:00 AM	25.772	25.81			N/A
12/21/2018	EURCZK	1:30:00 PM	25.778	25.814			N/A
12/21/2018	EURCZK	3:30:00 PM	25.813	25.84			N/A
12/21/2018	EURDKK	9:30:00 AM	7.4662	7.4665			N/A
12/21/2018	EURDKK	11:30:00 AM	7.4667	7.4676			N/A
12/21/2018	EURDKK	1:30:00 PM	7.4665	7.4677			N/A
12/21/2018	EURDKK	3:30:00 PM	7.466	7.4673			N/A
12/21/2018	EURGBP	9:30:00 AM	0.90414	0.90422			N/A
12/21/2018	EURGBP	11:30:00 AM	0.90213	0.90185			N/A
12/21/2018	EURGBP	1:30:00 PM	0.90173	0.90175			N/A
12/21/2018	EURGBP	3:30:00 PM	0.90222	0.90208			N/A
12/21/2018	EURHKD	9:30:00 AM	8.971	8.9751			N/A
12/21/2018	EURHKD	11:30:00 AM	8.94	8.9444			N/A
12/21/2018	EURHKD	1:30:00 PM	8.9438	8.9456			N/A
12/21/2018	EURHKD	3:30:00 PM	8.9342	8.9379			N/A
12/21/2018	EURHUF	9:30:00 AM	321.18	321.83			N/A
12/21/2018	EURHUF	11:30:00 AM	321.43	322			N/A
12/21/2018	EURHUF	1:30:00 PM	321.66	322.38			N/A
12/21/2018	EURHUF	3:30:00 PM	321.6	322.07			N/A
12/21/2018	EURJPY	9:30:00 AM	127.571	127.558			N/A
12/21/2018	EURJPY	11:30:00 AM	127.05	127.052			N/A
12/21/2018	EURJPY	1:30:00 PM	127.001	126.978			N/A
12/21/2018	EURJPY	3:30:00 PM	126.96	126.938			N/A
12/21/2018	EURMXN	9:30:00 AM	22.7645	22.7807			N/A
12/21/2018	EURMXN	11:30:00 AM	22.7586	22.7721			N/A
12/21/2018	EURMXN	1:30:00 PM	22.791	22.7942			N/A
12/21/2018	EURMXN	3:30:00 PM	22.7543	22.7616			N/A
12/21/2018	EURNOK	9:30:00 AM	9.9276	9.9367			N/A
12/21/2018	EURNOK	11:30:00 AM	9.9119	9.923			N/A
12/21/2018	EURNOK	1:30:00 PM	9.9276	9.9387			N/A
12/21/2018	EURNOK	3:30:00 PM	9.9473	9.9581			N/A
12/21/2018	EURNZD	9:30:00 AM	1.69325	1.69391			N/A

12/21/2018	EURNZD	11:30:00 AM	1.69632	1.69678			N/A
12/21/2018	EURNZD	1:30:00 PM	1.69586	1.69615			N/A
12/21/2018	EURNZD	3:30:00 PM	1.69349	1.69385			N/A
12/21/2018	EURPLN	9:30:00 AM	4.286	4.2874			N/A
12/21/2018	EURPLN	11:30:00 AM	4.2842	4.2873			N/A
12/21/2018	EURPLN	1:30:00 PM	4.286	4.2889			N/A
12/21/2018	EURPLN	3:30:00 PM	4.2819	4.2846			N/A
12/21/2018	EURRUR	9:30:00 AM					N/A
12/21/2018	EURRUR	11:30:00 AM	77.628	78.059			N/A
12/21/2018	EURRUR	1:30:00 PM	77.992	78.407			N/A
12/21/2018	EURRUR	3:30:00 PM	78	78.364			N/A
12/21/2018	EURSEK	9:30:00 AM	10.2783	10.2819			N/A
12/21/2018	EURSEK	11:30:00 AM	10.2769	10.2787			N/A
12/21/2018	EURSEK	1:30:00 PM	10.2856	10.2895			N/A
12/21/2018	EURSEK	3:30:00 PM	10.2737	10.2778			N/A
12/21/2018	EURSGD	9:30:00 AM	1.5689	1.5695			N/A
12/21/2018	EURSGD	11:30:00 AM	1.5648	1.5655			N/A
12/21/2018	EURSGD	1:30:00 PM	1.5651	1.5655			N/A
12/21/2018	EURSGD	3:30:00 PM	1.5636	1.5641			N/A
12/21/2018	EURUSD	9:30:00 AM	1.14623	1.14622			N/A
12/21/2018	EURUSD	11:30:00 AM	1.142	1.14199			N/A
12/21/2018	EURUSD	1:30:00 PM	1.14249	1.14214			N/A
12/21/2018	EURUSD	3:30:00 PM	1.14118	1.14107			N/A
12/21/2018	EURZAR	9:30:00 AM	16.3832	16.4035			N/A
12/21/2018	EURZAR	11:30:00 AM	16.5019	16.5113			N/A
12/21/2018	EURZAR	1:30:00 PM	16.5005	16.5025			N/A
12/21/2018	EURZAR	3:30:00 PM	16.451	16.4664			N/A
12/21/2018	GBPAUD	9:30:00 AM	1.78149	1.78207			N/A
12/21/2018	GBPAUD	11:30:00 AM	1.78906	1.78875			N/A
12/21/2018	GBPAUD	1:30:00 PM	1.78653	1.78702			N/A
12/21/2018	GBPAUD	3:30:00 PM	1.78182	1.78226			N/A
12/21/2018	GBPCAD	9:30:00 AM	1.71075	1.71136			N/A
12/21/2018	GBPCAD	11:30:00 AM	1.71201	1.71178			N/A
12/21/2018	GBPCAD	1:30:00 PM	1.71507	1.71529			N/A
12/21/2018	GBPCAD	3:30:00 PM	1.71501	1.71405			N/A
12/21/2018	GBPCHF	9:30:00 AM	1.25074	1.25102			N/A
12/21/2018	GBPCHF	11:30:00 AM	1.25312	1.25325			N/A
12/21/2018	GBPCHF	1:30:00 PM	1.25419	1.25451			N/A
12/21/2018	GBPCHF	3:30:00 PM	1.2538	1.25411			N/A
12/21/2018	GBPCZK	9:30:00 AM	28.474	28.496			N/A
12/21/2018	GBPCZK	11:30:00 AM	28.589	28.596			N/A
12/21/2018	GBPCZK	1:30:00 PM	28.598	28.616			N/A
12/21/2018	GBPCZK	3:30:00 PM	28.621	28.631			N/A
12/21/2018	GBPDKK	9:30:00 AM	8.254	8.265			N/A
12/21/2018	GBPDKK	11:30:00 AM	8.276	8.283			N/A
12/21/2018	GBPDKK	1:30:00 PM	8.276	8.286			N/A
12/21/2018	GBPDKK	3:30:00 PM	8.272	8.282			N/A
12/21/2018	GBPHKD	9:30:00 AM	9.9192	9.9232			N/A
12/21/2018	GBPHKD	11:30:00 AM	9.9122	9.9123			N/A
12/21/2018	GBPHKD	1:30:00 PM	9.9157	9.9191			N/A

12/21/2018	GBPHKD	3:30:00 PM	9.8994	9.9042			N/A
12/21/2018	GBPHUF	9:30:00 AM	355.19	355.67			N/A
12/21/2018	GBPHUF	11:30:00 AM	356.29	356.55			N/A
12/21/2018	GBPHUF	1:30:00 PM	356.68	357.14			N/A
12/21/2018	GBPHUF	3:30:00 PM	356.3	356.69			N/A
12/21/2018	GBPJPY	9:30:00 AM	141.075	141.1			N/A
12/21/2018	GBPJPY	11:30:00 AM	140.908	140.853			N/A
12/21/2018	GBPJPY	1:30:00 PM	140.816	140.825			N/A
12/21/2018	GBPJPY	3:30:00 PM	140.717	140.709			N/A
12/21/2018	GBPMXN	9:30:00 AM	25.1677	25.1795			N/A
12/21/2018	GBPMXN	11:30:00 AM	25.2293	25.228			N/A
12/21/2018	GBPMXN	1:30:00 PM	25.2686	25.2665			N/A
12/21/2018	GBPMXN	3:30:00 PM	25.2069	25.2136			N/A
12/21/2018	GBPNOK	9:30:00 AM	10.9799	10.9886			N/A
12/21/2018	GBPNOK	11:30:00 AM	10.9909	10.998			N/A
12/21/2018	GBPNOK	1:30:00 PM	11.0099	11.0199			N/A
12/21/2018	GBPNOK	3:30:00 PM	11.0275	11.035			N/A
12/21/2018	GBPNZD	9:30:00 AM	1.87281	1.87333			N/A
12/21/2018	GBPNZD	11:30:00 AM	1.88113	1.88078			N/A
12/21/2018	GBPNZD	1:30:00 PM	1.88066	1.88096			N/A
12/21/2018	GBPNZD	3:30:00 PM	1.87695	1.87753			N/A
12/21/2018	GBPPLN	9:30:00 AM	4.7407	4.741			N/A
12/21/2018	GBPPLN	11:30:00 AM	4.7523	4.7515			N/A
12/21/2018	GBPPLN	1:30:00 PM	4.7541	4.7555			N/A
12/21/2018	GBPPLN	3:30:00 PM	4.7479	4.7478			N/A
12/21/2018	GBPSEK	9:30:00 AM	11.3643	11.3731			N/A
12/21/2018	GBPSEK	11:30:00 AM	11.3939	11.3957			N/A
12/21/2018	GBPSEK	1:30:00 PM	11.4047	11.4117			N/A
12/21/2018	GBPSEK	3:30:00 PM	11.3871	11.3923			N/A
12/21/2018	GBPSGD	9:30:00 AM	1.7351	1.7358			N/A
12/21/2018	GBPSGD	11:30:00 AM	1.7353	1.7352			N/A
12/21/2018	GBPSGD	1:30:00 PM	1.7356	1.736			N/A
12/21/2018	GBPSGD	3:30:00 PM	1.7334	1.7337			N/A
12/21/2018	GBPUSD	9:30:00 AM	1.2679	1.26783			N/A
12/21/2018	GBPUSD	11:30:00 AM	1.26658	1.26596			N/A
12/21/2018	GBPUSD	1:30:00 PM	1.2672	1.26686			N/A
12/21/2018	GBPUSD	3:30:00 PM	1.26511	1.26495			N/A
12/21/2018	GBPZAR	9:30:00 AM	18.1164	18.1451			N/A
12/21/2018	GBPZAR	11:30:00 AM	18.2893	18.3064			N/A
12/21/2018	GBPZAR	1:30:00 PM	18.2954	18.3062			N/A
12/21/2018	GBPZAR	3:30:00 PM	18.2299	18.2555			N/A
12/21/2018	GOLD	9:30:00 AM	1260.83	1261.2			N/A
12/21/2018	GOLD	11:30:00 AM	1258.54	1258.7			N/A
12/21/2018	GOLD	1:30:00 PM	1260.02	1260.04			N/A
12/21/2018	GOLD	3:30:00 PM	1261.59	1261.47			N/A
12/21/2018	HKDJPY	9:30:00 AM	14.22	14.23			N/A
12/21/2018	HKDJPY	11:30:00 AM	14.21	14.22			N/A
12/21/2018	HKDJPY	1:30:00 PM	14.2	14.2			N/A
12/21/2018	HKDJPY	3:30:00 PM	14.21	14.21			N/A
12/21/2018	HUFJPY	9:30:00 AM	0.397	0.3973			N/A

12/21/2018	HUFJPY	11:30:00 AM	0.3952	0.3955			N/A
12/21/2018	HUFJPY	1:30:00 PM	0.3946	0.3949			N/A
12/21/2018	HUFJPY	3:30:00 PM	0.3946	0.3949			N/A
12/21/2018	MXNJPY	9:30:00 AM					N/A
12/21/2018	MXNJPY	11:30:00 AM					N/A
12/21/2018	MXNJPY	1:30:00 PM	5.58	5.58			N/A
12/21/2018	MXNJPY	3:30:00 PM	5.58	5.59			N/A
12/21/2018	NOKJPY	9:30:00 AM	12.83	12.86			N/A
12/21/2018	NOKJPY	11:30:00 AM	12.8	12.83			N/A
12/21/2018	NOKJPY	1:30:00 PM	12.77	12.8			N/A
12/21/2018	NOKJPY	3:30:00 PM	12.74	12.77			N/A
12/21/2018	NZDCAD	9:30:00 AM	0.91317	0.91389			N/A
12/21/2018	NZDCAD	11:30:00 AM	0.90974	0.91034			N/A
12/21/2018	NZDCAD	1:30:00 PM	0.9116	0.91224			N/A
12/21/2018	NZDCAD	3:30:00 PM	0.91357	0.91311			N/A
12/21/2018	NZDCHF	9:30:00 AM	0.6675	0.66819			N/A
12/21/2018	NZDCHF	11:30:00 AM	0.66605	0.66657			N/A
12/21/2018	NZDCHF	1:30:00 PM	0.66663	0.66722			N/A
12/21/2018	NZDCHF	3:30:00 PM	0.66766	0.66828			N/A
12/21/2018	NZDCZK	9:30:00 AM	15.201	15.213			N/A
12/21/2018	NZDCZK	11:30:00 AM	15.197	15.205			N/A
12/21/2018	NZDCZK	1:30:00 PM	15.207	15.214			N/A
12/21/2018	NZDCZK	3:30:00 PM	15.246	15.252			N/A
12/21/2018	NZDDKK	9:30:00 AM					N/A
12/21/2018	NZDDKK	11:30:00 AM	4.399	4.401			N/A
12/21/2018	NZDDKK	1:30:00 PM	4.4	4.404			N/A
12/21/2018	NZDDKK	3:30:00 PM	4.405	4.408			N/A
12/21/2018	NZDHKD	9:30:00 AM	5.2952	5.2979			N/A
12/21/2018	NZDHKD	11:30:00 AM	5.267	5.2693			N/A
12/21/2018	NZDHKD	1:30:00 PM	5.2708	5.2737			N/A
12/21/2018	NZDHKD	3:30:00 PM	5.2726	5.2749			N/A
12/21/2018	NZDHUF	9:30:00 AM	189.62	189.89			N/A
12/21/2018	NZDHUF	11:30:00 AM	189.42	189.59			N/A
12/21/2018	NZDHUF	1:30:00 PM	189.64	189.88			N/A
12/21/2018	NZDHUF	3:30:00 PM	189.75	190.01			N/A
12/21/2018	NZDJPY	9:30:00 AM	75.291	75.349			N/A
12/21/2018	NZDJPY	11:30:00 AM	74.861	74.913			N/A
12/21/2018	NZDJPY	1:30:00 PM	74.856	74.899			N/A
12/21/2018	NZDJPY	3:30:00 PM	74.937	74.978			N/A
12/21/2018	NZDMXN	9:30:00 AM	13.4359	13.4423			N/A
12/21/2018	NZDMXN	11:30:00 AM	13.408	13.4128			N/A
12/21/2018	NZDMXN	1:30:00 PM	13.432	13.4331			N/A
12/21/2018	NZDMXN	3:30:00 PM	13.4269	13.4298			N/A
12/21/2018	NZDNOK	9:30:00 AM	5.8604	5.8635			N/A
12/21/2018	NZDNOK	11:30:00 AM	5.8422	5.8425			N/A
12/21/2018	NZDNOK	1:30:00 PM	5.8527	5.8557			N/A
12/21/2018	NZDNOK	3:30:00 PM	5.8696	5.873			N/A
12/21/2018	NZDPLN	9:30:00 AM	2.5293	2.5304			N/A
12/21/2018	NZDPLN	11:30:00 AM	2.5248	2.5262			N/A
12/21/2018	NZDPLN	1:30:00 PM	2.5264	2.5271			N/A

12/21/2018	NZDPLN	3:30:00 PM	2.5262	2.5276			N/A
12/21/2018	NZDSEK	9:30:00 AM	6.0647	6.0708			N/A
12/21/2018	NZDSEK	11:30:00 AM	6.052	6.0575			N/A
12/21/2018	NZDSEK	1:30:00 PM	6.0608	6.0652			N/A
12/21/2018	NZDSEK	3:30:00 PM	6.0607	6.0665			N/A
12/21/2018	NZDSGD	9:30:00 AM	0.9263	0.9269			N/A
12/21/2018	NZDSGD	11:30:00 AM	0.9223	0.9228			N/A
12/21/2018	NZDSGD	1:30:00 PM	0.9227	0.9232			N/A
12/21/2018	NZDSGD	3:30:00 PM	0.9232	0.9237			N/A
12/21/2018	NZDUSD	9:30:00 AM	0.67679	0.67688			N/A
12/21/2018	NZDUSD	11:30:00 AM	0.67312	0.67321			N/A
12/21/2018	NZDUSD	1:30:00 PM	0.67352	0.6736			N/A
12/21/2018	NZDUSD	3:30:00 PM	0.67384	0.67379			N/A
12/21/2018	NZDZAR	9:30:00 AM	9.6652	9.6823			N/A
12/21/2018	NZDZAR	11:30:00 AM	9.7182	9.727			N/A
12/21/2018	NZDZAR	1:30:00 PM	9.7182	9.73			N/A
12/21/2018	NZDZAR	3:30:00 PM	9.7015	9.7169			N/A
12/21/2018	SEKJPY	9:30:00 AM	12.41	12.42			N/A
12/21/2018	SEKJPY	11:30:00 AM	12.36	12.37			N/A
12/21/2018	SEKJPY	1:30:00 PM	12.34	12.35			N/A
12/21/2018	SEKJPY	3:30:00 PM	12.35	12.36			N/A
12/21/2018	SGDJPY	9:30:00 AM	81.28	81.3			N/A
12/21/2018	SGDJPY	11:30:00 AM	81.17	81.18			N/A
12/21/2018	SGDJPY	1:30:00 PM	81.12	81.12			N/A
12/21/2018	SGDJPY	3:30:00 PM	81.15	81.17			N/A
12/21/2018	SILVER	9:30:00 AM	14.56	14.94			N/A
12/21/2018	SILVER	11:30:00 AM	14.46	14.84			N/A
12/21/2018	SILVER	1:30:00 PM	14.5	14.89			N/A
12/21/2018	SILVER	3:30:00 PM	14.54	14.93			N/A
12/21/2018	USDCAD	9:30:00 AM	1.34967	1.34976			N/A
12/21/2018	USDCAD	11:30:00 AM	1.35204	1.35196			N/A
12/21/2018	USDCAD	1:30:00 PM	1.35393	1.35389			N/A
12/21/2018	USDCAD	3:30:00 PM	1.35628	1.35458		50000	N/A
12/21/2018	USDCHF	9:30:00 AM	0.98659	0.98668			N/A
12/21/2018	USDCHF	11:30:00 AM	0.98974	0.98968			N/A
12/21/2018	USDCHF	1:30:00 PM	0.99009	0.99			N/A
12/21/2018	USDCHF	3:30:00 PM	0.99124	0.99124			N/A
12/21/2018	USDCZK	9:30:00 AM	22.477	22.497			N/A
12/21/2018	USDCZK	11:30:00 AM	22.592	22.611			N/A
12/21/2018	USDCZK	1:30:00 PM	22.592	22.604			N/A
12/21/2018	USDCZK	3:30:00 PM	22.644	22.657			N/A
12/21/2018	USDDKK	9:30:00 AM	6.5125	6.5157			N/A
12/21/2018	USDDKK	11:30:00 AM	6.5371	6.5398			N/A
12/21/2018	USDDKK	1:30:00 PM	6.5354	6.5372			N/A
12/21/2018	USDDKK	3:30:00 PM	6.5422	6.5445			N/A
12/21/2018	USDHKD	9:30:00 AM	7.827	7.8272			N/A
12/21/2018	USDHKD	11:30:00 AM	7.8291	7.8294			N/A
12/21/2018	USDHKD	1:30:00 PM	7.8291	7.8288			N/A
12/21/2018	USDHKD	3:30:00 PM	7.8297	7.83			N/A
12/21/2018	USDHUF	9:30:00 AM	280.26	280.68			N/A

12/21/2018	USDHUF	11:30:00 AM	281.5	281.95			N/A
12/21/2018	USDHUF	1:30:00 PM	281.65	282			N/A
12/21/2018	USDHUF	3:30:00 PM	281.87	282.29			N/A
12/21/2018	USDJPY	9:30:00 AM	111.289	111.288			N/A
12/21/2018	USDJPY	11:30:00 AM	111.248	111.249			N/A
12/21/2018	USDJPY	1:30:00 PM	111.181	111.15			N/A
12/21/2018	USDJPY	3:30:00 PM	111.245	111.236			N/A
12/21/2018	USDMXN	9:30:00 AM	19.859	19.866			N/A
12/21/2018	USDMXN	11:30:00 AM	19.928	19.932			N/A
12/21/2018	USDMXN	1:30:00 PM	19.948	19.95			N/A
12/21/2018	USDMXN	3:30:00 PM	19.939	19.94			N/A
12/21/2018	USDNOK	9:30:00 AM	8.6607	8.6674			N/A
12/21/2018	USDNOK	11:30:00 AM	8.6803	8.6866			N/A
12/21/2018	USDNOK	1:30:00 PM	8.6916	8.696			N/A
12/21/2018	USDNOK	3:30:00 PM	8.7171	8.7237			N/A
12/21/2018	USDPLN	9:30:00 AM	3.7392	3.7397			N/A
12/21/2018	USDPLN	11:30:00 AM	3.7517	3.7531			N/A
12/21/2018	USDPLN	1:30:00 PM	3.7529	3.7527			N/A
12/21/2018	USDPLN	3:30:00 PM	3.7527	3.7534			N/A
12/21/2018	USDRUR	9:30:00 AM					N/A
12/21/2018	USDRUR	11:30:00 AM	68.046	68.424			N/A
12/21/2018	USDRUR	1:30:00 PM	68.339	68.718			N/A
12/21/2018	USDRUR	3:30:00 PM	68.397	68.746			N/A
12/21/2018	USDSEK	9:30:00 AM	8.9647	8.9668			N/A
12/21/2018	USDSEK	11:30:00 AM	8.9966	8.998			N/A
12/21/2018	USDSEK	1:30:00 PM	9.0034	9.0035			N/A
12/21/2018	USDSEK	3:30:00 PM	9.0015	9.0039			N/A
12/21/2018	USDSGD	9:30:00 AM	1.3686	1.3688			N/A
12/21/2018	USDSGD	11:30:00 AM	1.3702	1.3705			N/A
12/21/2018	USDSGD	1:30:00 PM	1.3699	1.3702			N/A
12/21/2018	USDSGD	3:30:00 PM	1.3702	1.3702			N/A
12/21/2018	USDZAR	9:30:00 AM	14.2919	14.3094			N/A
12/21/2018	USDZAR	11:30:00 AM	14.4483	14.4554			N/A
12/21/2018	USDZAR	1:30:00 PM	14.439	14.4483			N/A
12/21/2018	USDZAR	3:30:00 PM	14.4146	14.4296			N/A
12/21/2018	XAUUSD	9:30:00 AM	1260.85	1261.07			N/A
12/21/2018	XAUUSD	11:30:00 AM	1258.59	1258.63			N/A
12/21/2018	XAUUSD	1:30:00 PM	1260.03	1260.01			N/A
12/21/2018	XAUUSD	3:30:00 PM	1261.58	1261.41			N/A
12/21/2018	ZARJPY	9:30:00 AM	7.76	7.78			N/A
12/21/2018	ZARJPY	11:30:00 AM	7.68	7.7			N/A
12/21/2018	ZARJPY	1:30:00 PM	7.68	7.69			N/A
12/21/2018	ZARJPY	3:30:00 PM	7.7	7.71			N/A
12/24/2018	#AA	9:30:00 AM					N/A
12/24/2018	#AA	11:30:00 AM					N/A
12/24/2018	#AA	1:30:00 PM					N/A
12/24/2018	#AA	3:30:00 PM					N/A
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12/24/2018	#AABA	11:30:00 AM					N/A
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12/24/2018	#AABA	3:30:00 PM					N/A
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12/24/2018	#AAL	11:30:00 AM					N/A
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12/24/2018	#AAPL	3:30:00 PM					N/A
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12/24/2018	#AMD	1:30:00 PM					N/A
12/24/2018	#AMD	3:30:00 PM					N/A
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12/24/2018	#BA	11:30:00 AM					N/A
12/24/2018	#BA	1:30:00 PM					N/A
12/24/2018	#BA	3:30:00 PM					N/A
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12/24/2018	#BABA	11:30:00 AM					N/A
12/24/2018	#BABA	1:30:00 PM					N/A
12/24/2018	#BABA	3:30:00 PM					N/A
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12/24/2018	#BHP	3:30:00 PM					N/A
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12/24/2018	#BIDU	1:30:00 PM					N/A
12/24/2018	#BIDU	3:30:00 PM					N/A
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12/24/2018	#BK	3:30:00 PM					N/A
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12/24/2018	#BP	3:30:00 PM					N/A
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12/24/2018	#C	1:30:00 PM					N/A
12/24/2018	#C	3:30:00 PM					N/A
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12/24/2018	#CAT	3:30:00 PM					N/A
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12/24/2018	#CMCSA	3:30:00 PM					N/A
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12/24/2018	#DIS	3:30:00 PM					N/A
12/24/2018	#DWD	9:30:00 AM					N/A
12/24/2018	#DWD	11:30:00 AM					N/A
12/24/2018	#DWD	1:30:00 PM					N/A
12/24/2018	#DWD	3:30:00 PM					N/A
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12/24/2018	#EBAY	1:30:00 PM					N/A
12/24/2018	#EBAY	3:30:00 PM					N/A
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12/24/2018	#F	11:30:00 AM					N/A
12/24/2018	#F	1:30:00 PM					N/A
12/24/2018	#F	3:30:00 PM					N/A
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12/24/2018	#FCX	1:30:00 PM					N/A
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12/24/2018	#FSLR	9:30:00 AM					N/A
12/24/2018	#FSLR	11:30:00 AM					N/A
12/24/2018	#FSLR	1:30:00 PM					N/A
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