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NOISE ASSESSMENT

Land Opposite Rue Hill House,
Cauldon Low,
ST10 3HD

Report by
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Report Date:	2nd November 2016
Ref:	20161102 7826 Cauldon Low 8233.docx
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1.0 INTRODUCTION

On the instructions of Mr Simon Little, Martec Environmental Consultants Ltd carried out a noise assessment on land currently occupied by a Dutch Barn on land opposite to Rue Hill House, Cauldon Low, ST10 3HD. The assessment would accompany an application to convert the Dutch barn into a private dwelling.

This report details the results of measurements made on the site, the requirements of BS8233:2014 and BS4142:2014 and draws conclusions as to the likely acceptability of noise levels on future occupants. Appendix 1 contains an explanation of acoustic terminology; consultants' qualifications are set out at Appendix 2; references at Appendix 3; further noise measurements at Appendix 4, photographs at Appendix 5 and a complete set of monitoring data at Appendix 6.

2.0 SITE DESCRIPTION

The plot is situated close to the A52 road, with the front facade of the building approximately 7m from the carriageway. The road is relatively busy considering the rural location.

It is understood that Simon Clowes Transport Ltd, is based at Rue Hill House, which is opposite the development site [See Figure 1]. From information prepared by Michael Sutcliffe & Associates, on behalf of Simon Clowes Transport, it is understood that there are currently 10 HGVs based on site [soon to be 11]; the proposed dwelling is some 50m from the nearest part of the haulage company's yard and some 64m from the maintenance building; as part of the haulage operation the following noise generating activities occur:

1. HGVs are run for around 15 minutes prior to departure from site, which can sometimes be during the early hours.
2. HGVs are maintained on site, which, from experience, will include use of air tools, say to remove wheel nuts, plus occasional hammering and possibly grinding.
3. It is understood that bulk products such as grain and wood pellet fuel are stored on site [from Simon Clowes' website] and these products are loaded onto the HGVs using mechanical loading vehicles.

3.0 NOISE CRITERIA

3.1 National Planning Policy Guidance - Noise

3.2.1 The Use of Quantitative Standards

The first comment to make about the new guidance, issued in March 2014, is that it is qualitative, lacking quantitative guidance on acceptable noise levels for general industrial or commercial noise. In addition, there is no direct reference to using British (or other) Standards to assess noise; i.e. previously PPG24 directly referred to both BS8233 and BS4142; therefore, the current government guidance does not appear to endorse directly the use of these documents.

At paragraph 10 of the Noise Guidance, it is stated that local plans can include noise standards, which presumably would/could be based upon relevant British Standards. Paragraph 10 states: "Care should be taken, however, to avoid these being implemented as fixed thresholds as specific circumstances may justify some variation being allowed."

So that it is clear that current guidance envisages that quantitative standards can be used, provided that there is flexibility in their application.

3.2.2 The Qualitative Guidance in NPPG - Noise

In paragraph 5 various noise categories and thresholds are set out; up to and including "Noticeable and Intrusive" it seems likely that the intention would be to recognise that whilst the noise levels are not desirable, planning consent should be granted provided that the noise can be mitigated and the intrusion reduced to a minimum. "Noticeable and Intrusive" noise occurs when:

"Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life."

Above the "Significant Observed Adverse Effect Level" threshold, noise becomes "Noticeable and Disruptive" because:

"The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in

getting back to sleep. Quality of life diminished due to change in acoustic character of the area."

Noise which is "Noticeable and disruptive" should be avoided; however, it is the next level of disturbance "Noticeable and very disruptive" that should be prevented.

It can be seen that the NPPG noise guidance envisages that if properties are provided with alternative ventilation and acoustic glazing, designed to ensure "acceptable" internal noise levels, then internal noise levels would not exceed the "Significant Observed Adverse Effect Level" and that planning consent could be granted. The guidance states "If the exposure is above this level the planning process should be used to avoid this effect occurring, by use of appropriate mitigation such as by altering the design and layout."

Clearly the provision of acoustic glazing and ventilation cannot change external noise levels; therefore, it follows that the NPPG-Noise is not based on assessments of external noise such as BS4142, i.e. the wording of the Guidance does not support the use of BS4142.

The remaining question would then be whether the noise "Affects the acoustic character of the area such that there is a perceived change in the quality of life." OR "Quality of life diminished due to change in acoustic character of the area". It should be noted that these definitions

relating to external noise use the term "…the acoustic character of the area", i.e. no specific requirements are placed on amenity space noise levels, whether private or communal.

At Paragraph 9, the Guidance states that there are other matters that can mitigate the impact of noise on residential developments if residents *"…have access to:*

1. *a relatively quiet facade (containing windows to habitable rooms) as part of their dwelling, and/or;*
2. *a relatively quiet external amenity space for their sole use, (e.g. a garden or balcony). Although the existence of a garden or balcony is generally desirable, the intended benefits will be reduced with increasing noise exposure and could be such that significant adverse effects occur, and/or;*
3. *a relatively quiet, protected, nearby external amenity space for sole use by a limited group of residents as part of the amenity of their dwellings, and/or;*
4. *a relatively quiet, protected, external publicly accessible amenity space (e.g. a public park or a local green space designated because of its tranquillity) that is nearby (e.g. within a 5 minutes walking distance)"*

It can be seen that in noise terms it is not a requirement that residents have access to either a public or communal external "quiet" amenity space, although if they have access to such a space it can "partially off-set" the impact of noise on residential developments.

3.2.3 British Standard 8233:2014

The latest version of BS8233:2014 'Guidance on Sound Insulation and Noise Reduction for Buildings' recently published (February 2014) supersedes the 1999 version and states the following:

"In general, for steady external noise sources, it is desirable that the internal ambient noise level does not exceed the guideline values in Table 4.

Table 4: Indoor ambient noise levels for dwellings

Activity	**Location**	**07:00 to 23:00**	**23:00 to 07:00**
Resting	Living Room	35 LAeq,16hr	--
Dining	Dining Room/Area	40 LAeq,16hr	--
Sleeping (daytime resting)	Bedroom	35 LAeq,16hr	30 LAeq,8hr

The footnotes to this table make it clear that the guidance is based on the current WHO recommendations and that the above internal levels can be relaxed by 5dB to achieve "reasonable" internal conditions. The footnotes also make it clear that planning consent can be granted when external levels exceed the WHO guidance targets provided that appropriate internal noise levels are achieved.

With regard to external levels, BS8233:2014 states:

"7.7.3.2 Design criteria for external noise

For traditional external areas that are used for amenity space, such as gardens and patios, it is desirable that the external noise level does not exceed 50 dB LAeq,T, with an upper guideline value of 55 dB LAeq,T which would be acceptable in noisier environments. However, it is also recognized that these guideline values are not achievable in all circumstances where development might be desirable. In higher noise areas, such as city centres or urban areas adjoining the strategic transport network, a compromise between elevated noise levels and other factors, such as the convenience of living in these locations or making efficient use of land resources to ensure development needs can be met, might be warranted. In such a situation, development should be designed to achieve the lowest practicable levels in these external amenity spaces, but should not be prohibited.

Other locations, such as balconies, roof gardens and terraces, are also important in residential buildings where normal external amenity space might be limited or not available, i.e. in flats, apartment blocks, etc. In these locations, specification of noise limits is not necessarily appropriate. Small balconies may be included for uses such as drying washing or growing pot plants, and noise limits should not be necessary for these uses. However, the general guidance on noise in amenity space is still appropriate for larger balconies, roof gardens and terraces, which might be intended to be used for relaxation. In high-noise areas, consideration should be given to protecting these areas by screening or building design to achieve the lowest practicable levels. Achieving levels of 55 dB LAeq,T or less might not be possible at the outer edge of these areas, but should be achievable in some areas of the space."

From the wording, it is clear that there is no intention for the guideline noise levels to be applied to the general spaces external to apartment blocks and that the limits are only intended to apply to more private amenity spaces such as gardens and patios and larger balconies where residents would be expected to spend some time relaxing.

The wording of BS8233 also makes it clear that the guideline noise levels for gardens, patios, larger balconies etc., are not overriding planning considerations in any event.

3.2.4 BS4142:2014 – Rating Industrial Noise Affecting Mixed Residential and Industrial Areas

BS4142:2014 states, *"Response to sound can be subjective and is affected by many factors, both acoustic and non-acoustic. The significance of its impact, for example, can depend on such factors as the margin by which a sound exceeds the background sound level, its absolute level, time of day and change in the acoustic environment, as well as local attitudes to the source of the sound and the character of the neighbourhood…This British Standard describes methods for rating and assessing sound of an industrial and/or commercial nature".*

This British Standard describes a method for assessing whether a specific sound may have an adverse impact.

The Standard requires that the ambient noise ***(totally encompassing sound in a given situation at a given time, usually composed of sound from many sources near and far)*** including the "specific" sound from the source in question is measured in terms of the equivalent continuous sound level LAeq [see Appendix 1 for acoustic terms], which is then corrected for the residual sound (total LAeq excluding the "specific" sound).

A correction for character is made if ***"a tone, impulse or other characteristic occurs".*** For tonality a correction of between +2dB and

6dB is considered acceptable and for impulsivity between 3 and 9dB. See table below.

Character	Just Perceptible	Clearly Perceptible	Highly Perceptible
Tonality	+2dB	+4dB	+6dB
Impulsivity	+3dB	+6dB	+9dB

Where the specific sound features characteristics that are neither tonal nor impulsive, though otherwise are readily distinctive against the residual acoustic environment, a penalty of 3 dB can be applied.

Where tonal and impulsive characteristics are present in the specific sound within the same reference period then these two corrections can both be taken into account. If one feature is dominant, then it might be appropriate to apply a single correction. Where both features are likely to affect perception and response, the corrections ought normally to be added in a linear fashion.

The final figure, including any character correction is known as the Rating level.

This Rating Level is then compared with the measured background [LA90] level. The greater this difference the greater the likelihood of "adverse impact" (See Notes 1 & 2 from BS4142:2014 below).

"NOTE 1

a) Typically, the greater this difference, the greater the magnitude of the impact.

b) A difference of around +10 dB or more is likely to be an indication of a significant adverse impact, depending on the context.

c) A difference of around +5 dB is likely to be an indication of an adverse impact, depending on the context.

d) The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

NOTE 2

Adverse impacts include, but are not limited to, annoyance and sleep disturbance. Not all adverse impacts will lead to complaints and not every complaint is proof of an adverse impact."

It can be seen from Section 3.3 above that the conclusions to a BS4142 assessment also depend on the context and Section 11 of the British Standard states:

"Where the initial estimate of the impact needs to be modified due to the context, take all pertinent factors into consideration, including the following...

3) The sensitivity of the receptor and whether dwellings or other premises used for residential purposes will already incorporate design measures that secure good internal and/or outdoor acoustic conditions, such as:

i. *facade insulation treatment;*

ii. *ventilation and/or cooling that will reduce the need to have windows open so as to provide rapid or purge ventilation; and*

iii. *acoustic screening."*

3.3.1 **Nighttime Noise**

BS4142:2014 recognises that at night residents will be inside their properties [BS4142 A.6.1 and A.6.3] and that consequently "*Other guidance, such as BS 8233, might be applicable in this instance."* Also BS4142 is directed primarily to the circumstances of a proposed or existing noise source affecting existing property, i.e. circumstances where insulating the property is impracticable. Therefore, BS4142 can't take into account circumstances where the properties have not yet been built and where noise control, such as acoustic glazing and ventilation, can be incorporated such to alleviate "*...the primary concern is the potential for disturbance of residents who could be sleeping with open bedroom windows.*"

It can be seen from Section 3.3 above that the provision of acoustic glazing, ventilation and screening can all change the impact of external noise. Consequently where noise control can be incorporated into the properties [as here] Martec uses BS 8233:2014 to assess nighttime noise.

4.0 MEASUREMENT PROCEDURE

The site was visited on 1st October and noise monitoring equipment was installed for a 14-day period until 15th October at the approximate position of a first-floor room (barn), at 1m from the façade overlooking the A52; the measurement position was also overlooking Rue Hill House and its associated haulage yard [See Figure 1].

Observations were also made on attendance, during installation and again when retrieving the equipment. Octave band measurements were also made in order to predict internal levels (see below).

The weather conditions during the monitoring period were similar except for some light rain for a short period during the first day. Temperatures ranged between 6 to 14 degrees centigrade, wind speeds from 1-5/s (E, SE) and cloud cover between 10% and overcast.

It is not considered that the weather conditions would have significantly influenced the results.

The sound level meter used was a Svan 957 model (s/n 23201). The meter calibrated correctly before and after the measurements using a Cirrus calibrator type CR:551E (s/n 039816); all instrumentation had been laboratory calibrated within the preceding 2 years.

In order to facilitate the simultaneous recording of noise, the meter re-set itself each day between 11:45hrs and midday and there was no measurement or recording between these times; it is not considered that this will have significantly affected the measurement results.

5.0 MEASUREMENT RESULTS

The overall measurement results are shown in the tables below. Data for the entire period LAeq, 15 minute samples can be found at Appendix 6.

5.1 Road Traffic Noise

The noise environment at the measurement position is dominated by road traffic noise, with similar levels occurring most days.

Period		Monitoring Posn	
Day	Date	Day	Night
		LAeq,16hr	LAeq,8hr
Sat	01-Oct	66.2	55.6
Sun	02-Oct	66.5	58.0
Mon	03-Oct	65.6	57.6
Tue	04-Oct	65.1	57.1
Wed	05-Oct	65.7	57.5
Thu	06-Oct	65.8	57.6
Fri	07-Oct	66.5	56.0
Sat	08-Oct	66.8	55.6
Sun	09-Oct	67.9	58.0
Mon	10-Oct	66.0	59.7
Tue	11-Oct	66.2	58.8
Wed	12-Oct	66.1	59.1
Thu	13-Oct	66.7	59.6
Fri	14-Oct	66.4	56.5
Sat	15-Oct	60.2	--

Table 1: Overall LAeq,T levels Day [16hr] & Night [8hr] - facade

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz
Day	60.0	61.2	62.8	66.0	57.2
Night	47.6	48.7	48.1	48.9	41.3

Table 2: Octave Band Levels (Daytime / Night-time)

Nighttime Lmax levels were dominated by road traffic noise and a typical night's results appear at Appendix 4.

It is possible to analyse the working day [7am-6pm 5½ days/week] background noise levels as follows:

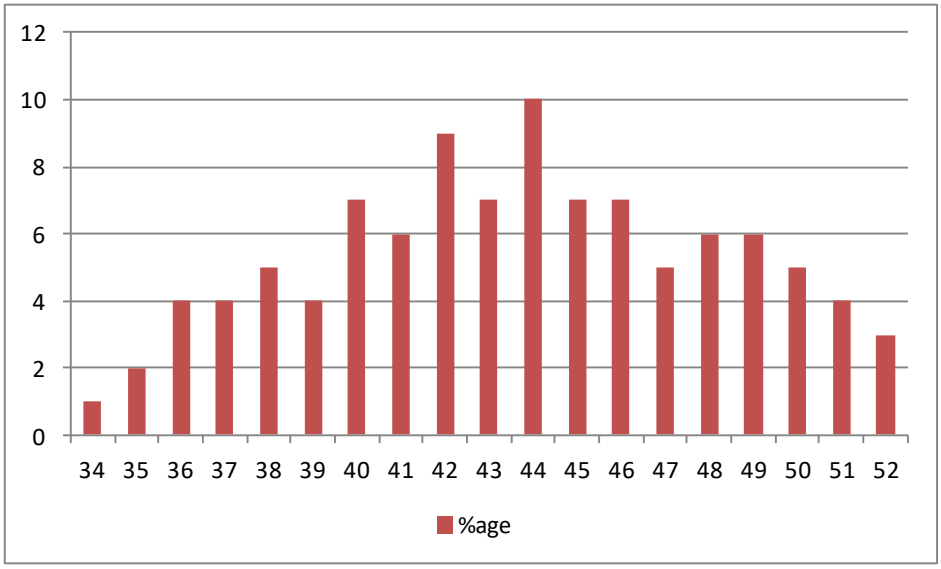


Chart 1: Working Day Background Noise Levels [LA90,15min facade]

5.1.2 Subjective Observations

The dominant noise source was A52 road traffic. An air tool or similar was just discernible for a short period when the equipment was being set up, during lulls in road traffic. Haulage vehicles leaving the yard opposite, because of the speed variance, were not discernible to the observer separately from the passing road traffic on the A52.

5.2 Noise from Rue Hill House

If we firstly consider the issue of HGV "warm up" in unsocial hours; between 05:30 and 05:39hrs on 10th October and between 05:04 to 05:12 hours on 7th October an HGV can be heard idling. The measured levels were 46.6 and 46.3 LAeq [free field] respectively.

At other times activities such as hammering, bulk product handling and machining can be heard, for example at 14:54hrs [4 mins of tonal noise], 16:54 hours [hammering for a few minutes] on 6th October and at 12:26hrs on 9th October. Levels between 47.4 and 57 LAeq [free field] can be produced at the monitoring position. There are also periods when a "blowing" type noise can be heard producing levels around 37 LAeq [e.g. 10:47hrs on 7th].

There are long daytime periods on the recordings when no noise from Rue Hill House can be heard, only road traffic noise.

6.0 ASSESSMENT OF RESULTS

6.1 Local Activity Noise

The typical LAeq,T's for the total monitoring period at the monitoring location equates to 65 dB LAeq,16hr daytime and nighttime levels some 8dB lower at 57 dB LAeq,8hr to the nearest whole decibel (free field).

6.2 Maximum Noise Levels

From Appendix 4, typical nighttime LAmax levels for events would be 81 dBA,F [facade] which is equivalent to 78 dBA,F [free field].

6.3 Summary of Results

The typical average octave band levels for the entire daytime monitoring period have been used to predict the internal levels (see below).

7.0 DISCUSSION OF ROAD TRAFFIC NOISE LEVELS

7.1 External Noise Levels

It is understood that that any amenity spaces will be located at the rear of the proposed property.

BS 8233:2014 adopts guideline external noise values provided in WHO for external amenity areas such as gardens and patios. The Standard states that it is "desirable" that the external noise does not exceed 50 dB $L_{Aeq,T}$ with an upper guideline value of 55 dB $L_{Aeq,T.}$ Where design standards cannot be achieved for traditional amenity spaces (e.g. gardens and patios) then the '*lowest practical levels*' should be achieved. The property itself together with close-boarded fencing, obscuring any view of the road from the rear should provide the

additional screening necessary to achieve the desirable levels. If calculations are performed on this basis as per Reference 3, the table below firstly calibrates the "model" using the measured level at the monitoring position [65 LAeq,16hr free field]; the next two columns are the rear garden prediction, firstly for that part of the road screened by the 6.5m high dwelling and secondly for that portion of the road screened by the 2m high acoustic fence.

Location CRTN Calcs © Martec Version 1.3		Mon Posn	Rear Gardn	
Road Segments		A52	A52	A52
Basic Noise Level of Road		63.5	63.5	63.5
Ht of C'way AoD		0	0	0
Angle of View		180	90	90
Ht of Ground at Receiver AoD		0	0	0
Ht of Receiver Abv local grnd		2	1.4	1.4
Dist of Receiver from C'way Edge		6	24	24
Proportion of Soft Ground		1	1	1
Height of Propagation Path		2.25	0.95	0.95
Barrier 1	Ht of Ground at Barrier AoD		0	0
	Ht of Barrier Abv local grnd		6.5	2
	Dist of Barrier top from C'way		10	20
Total Barrier Attenuation		0.0	-18.5	-8.9
Soft Ground Attenuation		0.0	-4.2	-4.2
Net Barrier Effect		0.0	-14.3	-4.7
Distance Attenuation		1.5	-3.1	-3.1
Angle of View Correction		0.0	-3.0	-3.0
Total Attenuation		1.5	-24.6	-15.0
Segment Level		65.0	38.9	48.5
Total Level		65.0	**48.9**	

It can be seen that the predicted levels in the rear garden are within the recommended upper limit of 55 dB LAeq,16hr.

7.2 Internal Noise Levels

The typical octave band levels have been used (below) to predict internal noise levels employing the methodology described in BS EN 12354-3:2000 [Ref 5].

For the purposes of prediction, the following have been assumed for first floor bedrooms: - (**Please inform Martec if any of the assumptions are incorrect**)

- Reverberation time for bedrooms is 0.3s
- Reverberation time for living rooms is 0.5s
- Room Volumes and window sizes have been scaled from the plans.
- Walls are timber frame with lightweight cladding and the roof has the same performances as tile / slate roof with absorbing layer above a twin layer plasterboard ceiling.
- Glazing would be upgraded thermal glazing of the form 10/12/6.

7.2.1 GF Bedroom 1

BS EN 12354-Calcs		Use	Volume		Volume	72.0		LAeq Ext	65.0
Version 3.8		length						LAeq Int	29.5
© 2014 Martec Environmental Consultants Ltd		width			RT	0.3		dBA Diff	35
& Acute Acoustics Ltd		height			Octave Band Centre Frequency [Hz]				dBA
					125	250	500	1k	2k	
	External Spectrum Leq (Free Field & Linear)				60.0	61.2	62.8	66.0	57.2	67.6
	Adjustment to Given Level if required									65.0
	External Spectrum Adjusted for Level				57.4	58.6	60.2	63.4	54.6	65.0
			Area m2		Element Sound Reduction Index [SRI]					Contrib
Wall	Timber_frame_wall_with_lightweight_cladding		13.8		24	34	40	45	49	21.9
Window	10/12/6_double_glazing		5.0		26	27	34	40	38	22.6
Window	None		0.0		0	0	0	0	0	0.0
Door	Solid-core door, 40mm with perimeter and threshold se		2.0		17	21	26	29	31	27.4
Roof	None		0.0		0	0	0	0	0	0.0
			# Vents							
Vent Dn,e	Greenwood MA3051 Acoustic Wall vent		1.0		47	46	49	56	66	9.0
										dBA
		Internal SPL/dBLin			34.8	30.7	26.6	25.9	15.8	29.5

From the above, it can be seen that the predicted internal daytime noise level of **29.5dB LAeq,16hr** for upgraded thermal glazing [10/12/6] with acoustic ventilation would meet the design range from BS.8233 of ≤35dB LAeq,16hr for daytime and also the 30 dB LAeq,8hr for night time, given the difference between daytime and nighttime levels some 8dB lower.

From the prediction table above, the dBA difference between inside and out is 35dB ["dBA Diff"]; BS8233:2014 does not contain recommendations for night time LAmax levels. Purely as a comparison, the previous version recommended that regular night time events should not exceed 45 dBA,F LAmax. Here the bedroom building

envelope reduces noise by 38dBA, if the typical external LAmax level is 78 dBAF, then typical internal LAmax levels would not exceed 45 dBA,F Lmax [78-35=42].

It should be noted that it has been assumed that the bedroom facade "sees" the entire road and that the door has an unobstructed view of the road; these assumptions will tend to overestimate internal noise levels, because the facade only "sees" half the road and the door is partially screened.

7.2.2 **First Floor Living/Kitchen**

BS EN 12354-Calcs		Use	Volume		Volume	146.0		**LAeq Ext**	**65.0**
Version 3.8		length						**LAeq Int**	**29.4**
© 2014 Martec Environmental Consultants Ltd		width			RT	0.5		**dBA Diff**	**36**
& Acute Acoustics Ltd		height		**Octave Band Centre Frequency [Hz]**					**dBA**
				125	**250**	**500**	**1k**	**2k**	
	External Spectrum Leq (Free Field & Linear)			60.0	61.2	62.8	66.0	57.2	**67.6**
	Adjustment to Given Level if required								65.0
	External Spectrum Adjusted for Level			**57.4**	**58.6**	**60.2**	**63.4**	**54.6**	**65.0**
			Area m2	**Element Sound Reduction Index [SRI]**					**Contrib**
Wall	Timber_frame_wall_with_lightweight_cladding		49.8	**24**	**34**	**40**	**45**	**49**	**26.6**
Window	10/12/6_double_glazing		8.8	**26**	**27**	**34**	**40**	**38**	**24.2**
Window	None		0.0	**0**	**0**	**0**	**0**	**0**	**0.0**
Door	None		0.0	**0**	**0**	**0**	**0**	**0**	**0.0**
Roof	Tile/slate_25mm_plbd_ceiling,_sound_absorbing_layer		30.0	**27**	**37**	**43**	**48**	**52**	**21.4**
			# Vents						
Vent Dn,e	Greenwood MA3051 Acoustic Wall vent		2.0	**47**	**46**	**49**	**56**	**66**	**11.1**
									dBA
		Internal SPL/dBLin		**38.1**	**31.3**	**26.6**	**24.4**	**14.3**	**29.4**

From the above, it can be seen that the predicted internal daytime noise level of **29.4dB LAeq,16hr** for upgraded thermal glazing [10/12/6] with

acoustic ventilation would meet the design range from BS.8233 of ≤35dB LAeq,16hr for daytime.

8.0 DISCUSSION OF RUE HILL HOUSE NOISE LEVELS

Given the context of high levels of road traffic noise [67 LAeq,16hr] at a higher noise level than noise generated at Rue Hill House [intermittent levels up to 57 LAeq], it is considered that a BS4142:2014 assessment may not be appropriate; indeed because the construction of the development will change both the background noise levels and noise from Rue Hill House by uncertain amounts, with the outdoor amenity spaces (rear gardens) being screened by the house and acoustic fencing.

It is not possible to perform a true BS4142:2014 assessment, so an indicative assessment has been performed.

From Section 5.1 above, the appropriate background noise figure would be 44 LA90 [facade] which is equivalent to 41 LA90 [free field].

Whilst it is correct to say that the operation at Rue Hill House was occurring at the time of gathering this data, from observation it is audible for far less than 90% of the time and therefore will not have influenced LA90 readings.

Naturally, the level produced by Simon Clowes Transport will depend on the activities undertaken and their duration; if we assume a that an hour

contains say 5 minutes of a tonal noise at 56 LAeq, 15 minutes of HGV idling @ 46 LAeq and say 2 minutes of hammering at 57 LAeq; the combined level would be 48 LAeq,1hr to the nearest whole number.

The most noticeable features of the noise are impulsivity and/or tonality, given the masking nature of the near constant, and higher, levels of road traffic noise; it is considered that the appropriate level of correction for both elements would lie between "just perceptible" and "clearly perceptible"; however, if we err on the side of caution and use a "clearly perceptible" correction for both impulsivity and tonality, a BS4142 assessment would be as follows:

Condition	Level
Estimated Specific Noise Level	48
Tonal Correction	+4
Impulsive Character	+6
Other Character	0
Intermittency	0
Rating Level [Specific + Character Correction]	58
Background Noise Level LA90	41
Excess over Background	+17
Indication of Significant Adverse Impact depending on the context	

Table 3: BS4142:2014 assessment for Dwelling

A similar assessment could be performed for an hour when only the tonal noise occurred [as encountered here].

Condition	Level
Estimated Specific Noise Level	45
Tonal Correction	+4
Impulsive Character	0
Other Character	0
Intermittency	0
Rating Level [Specific + Character Correction]	49
Background Noise Level LA90	41
Excess over Background	+8
Indication of Adverse Impact depending on the context	

Table 4: BS4142:2014 assessment for Dwelling

Similarly if the hammering occurred in isolation [as encountered here]

Condition	Level
Estimated Specific Noise Level	42
Tonal Correction	+6
Impulsive Character	0
Other Character	0
Intermittency	0
Rating Level [Specific + Character Correction]	48
Background Noise Level LA90	41
Excess over Background	+7
Indication of Adverse Impact depending on the context	

Table 5: BS4142:2014 assessment for Dwelling

Therefore, it can be seen that from time to time, there will be hours in the day with an indication of adverse impact depending on the context.

With regard to uncertainties in this assessment, for the reasons set out above the figure used for the specific noise is an estimate; however, it is considered unlikely that all the operations would occur in the same hour; consequently that the true figure is likely to be lower, i.e. the estimate is likely to be conservative. With regard to the figure used for background noise, given that the figure used [41 LA90] is based on two week's worth of monitoring, the figure used is considered robust. Similarly noise from Rue Hill House has been observed [listened to] for several hours and the correction used for impulsivity and tonality are considered more than appropriate.

Given the context of the near constant, and higher, levels of road traffic noise, and the fact that the dwelling and outdoor amenity space [where residents would experience any noise] will be much better protected from noise generated at Rue Hill House, than the monitoring position, it is considered that this noise would not cause an adverse impact on the development, given the context.

9.0 CONCLUSIONS

The external noise levels in the garden at the rear of the building should achieve the upper limit recommended in BS8233:2014 of 55 LAeq,16hr.

The calculations above show, for rooms with a view of the A52, when fitted with upgraded thermal double glazing (10/12/6) and acoustic ventilation internal noise levels would achieve the desirable internal levels from BS8233:2014.

The Sound Reduction Index [dB] of the various building elements should be as follows, or similar and approved:

Element	Octave Band Centre Frequency [Hz]				
	125	250	500	1k	2k
	Element Sound Reduction Index [SRI]				
External Walls	24	34	40	45	49
Windows	26	27	34	40	38
Doors	17	21	26	29	31
Roof	27	37	43	48	52
Vent Dn,e	47	46	49	56	66

Table 6: Required Element Sound Reduction Index [dB]

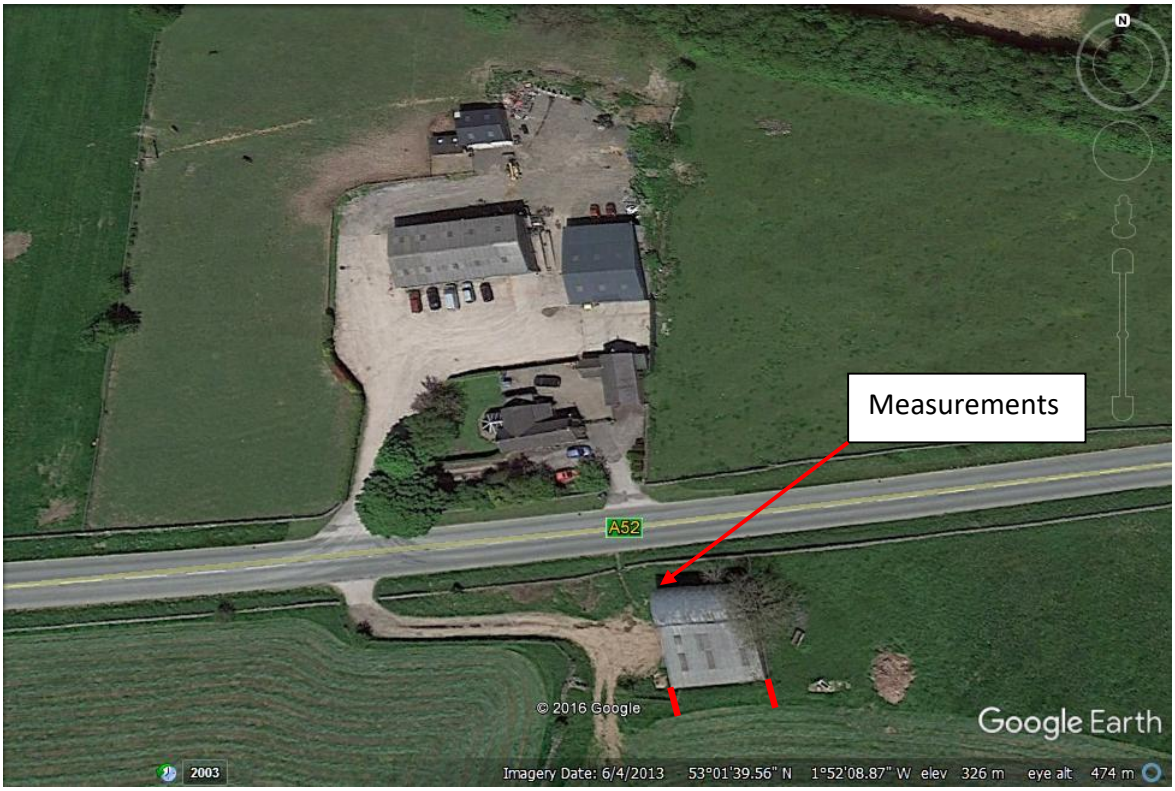
The acoustic ventilation could be combined with a Mechanical Extract Ventilation (MEV) or a Positive Input Ventilation (PIV) system which extracts/supplies air from the habitable rooms, but which does not allow significant noise to enter from the outside. Similarly an MVHR that does not require trickle vents would also be appropriate.

It is also recommended that 2m high acoustic barriers are erected as shown in red in Figure 1. The acoustic fencing must be imperforate (i.e. have no holes or gaps), have a surface mass no less than 10 kg/m2, be at least 20mm thick and incorporate gravel boards to close the gap between the ground and base of the acoustic fence.

The predictions indicate that whilst noise from Simon Clowes Transport could have an impact, noise from the haulage company activities is likely to be masked by road traffic noise; in addition there a long periods of the day when noise from Simon Clowes Transportation seems to be inaudible. Finally the dwelling will incorporate acoustic glazing, ventilation and screening. In this context it is not considered that noise from Simon Clowes Transportation would have a significantly adverse impact.

In summary, it is not considered that the noise impact should bar the granting of planning consent for this development.

Figure 1: Site Layout Plan [2m acoustic fence in red]



APPENDIX 1
EXPLANATION OF ACOUSTIC TERMS

The dB or the decibel, is the unit of noise. The number of decibels or the level, is measured using a sound level meter. It is common for the sound level meter to filter or 'weight' the incoming sound so as to mimic the frequency response of the human ear. Such measurements are designated **dB(A)**.

A doubling of the sound is perceived, by most people, when the level has increased by 10 dB(A). The least discernible difference is 2 dB(A). Thus most people cannot distinguish between, say 30 and 31 dB(A).

The Background level of noise is most commonly represented by the level which is exceeded for 90% of the time i.e. the LA90.

If a noise varies over time then the **equivalent continuous level, or LAeq**, is the notional constant level of noise which would contain the same amount of acoustic energy as the time varying noise.

The following table gives an indication of the comparative loudness of various noises expressed in terms of the A weighted scale:

Source of noise	dB(A)	Nature of Noise
Inside Quiet bedroom at night	30	Very Quiet
Quiet office	40	
Rural background noise	45	
Normal conversational level	60	
Busy restaurant	65	
Typewriter @ 1m	73	
Inside suburban electric train	76	
Alarm clock ringing @ .5m	80	
Hand clap @ 1m	80	
HGV accelerating @ 6m	92	Very Loud

APPENDIX 2

QUALIFICATIONS AND EXPERIENCE OF M. A. KENYON

My full name is Melville Alexander Kenyon. I am the principal of the firm of Martec Environmental Consultants Ltd, a consultancy company that specialises in environmental noise assessment and control. I graduated in 1982 with a Bachelor's degree in Engineering and subsequently a Master's degree in Environmental Acoustics. I have been a corporate member of the professional body for noise and vibration specialists, the Institute of Acoustics, since 1988, and have sat on the British Standards Committee dealing with noise in buildings [BS.8233:1999].

I have lectured at Liverpool John Moore's University on the Diploma of Acoustics course and at Manchester Metropolitan University on their Environmental Health degree course.

The firm of Martec Environmental Engineering was formed in the 1970's and has been a member of The Association of Nose Consultants since 1996. Since that time, we have advised many groups of both residents and developers about the problems of noise and vibration in the environment.

QUALIFICATIONS OF S. MELLOR

Master's degree in Health, Safety and Environmental Law, British Occupational Health Society (BOHS) M104 certificate in Noise and Vibration and Institute of Acoustics Certificate of Competence in Environmental Noise Measurement (Derby University) plus Diploma in Acoustics and Noise Control (Bristol University). Member of the professional body for noise and vibration specialists, the Institute of Acoustics - MIOA.

APPENDIX 3
REFERENCES

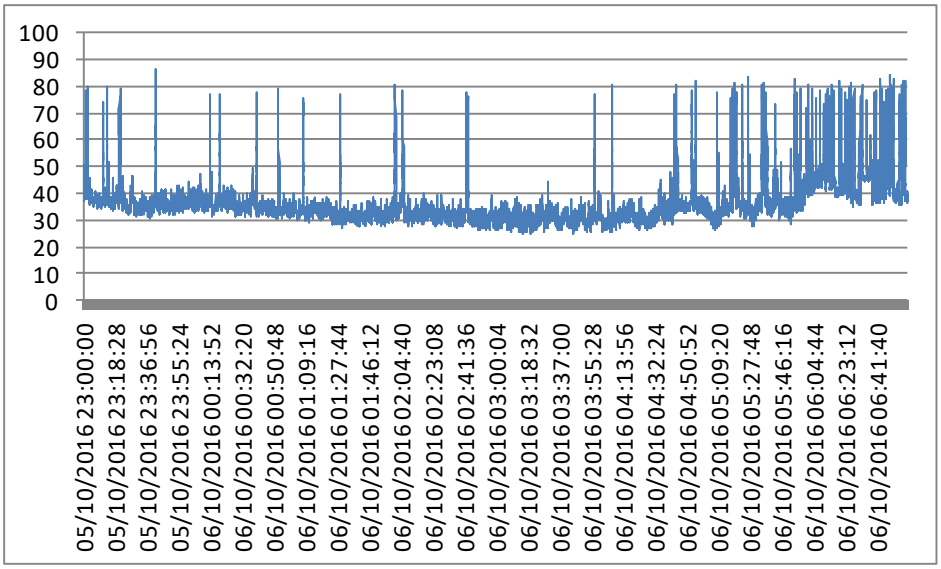
1 Planning Policy Guidance 24: Planning and Noise. - http://www.communities.gov.uk/publications/planningandbuilding/ppg24

2 BS.8233:2014 “Guidance on Sound Insulation and noise reduction for buildings.”

3 BS EN 12354-3:2000 *Building Acoustics-Estimation of Acoustic Performance in buildings from the performance of elements. Part 3 Airborne Sound Insulation against Outdoor Sound.*

APPENDIX 4

LAmax dB [facade]



APPENDIX 5
Location Images



Barn (monitoring equipment visible on left hand facade)



View from Barn of Rue Hill House (Opposite)

APPENDIX 6

Data

Date & time	Duration	LAFmax	LAFmn	LAeq	L01	L10	L50	L90
01/10/2016 12:15	00:15:00	91.1	32.9	65.2	78.5	65.4	47.2	37.2
01/10/2016 12:30	00:15:00	83.3	31.6	65.8	78.8	67.9	47	37.7
01/10/2016 12:45	00:15:00	84.5	38.4	66.3	79.8	67.2	48	40.6
01/10/2016 13:00	00:15:00	83.7	39.2	66.2	79.7	68.2	49.5	41.8
01/10/2016 13:15	00:15:00	84.6	40.4	65.7	79.3	65.9	47.6	42.5
01/10/2016 13:30	00:15:00	83.1	38.5	65.5	78.7	67	48.5	41.4
01/10/2016 13:45	00:15:00	83.2	36.1	65.9	78.7	67.9	50.7	40.3
01/10/2016 14:00	00:15:00	84	37.2	66.2	79.6	67.4	49.6	40.3
01/10/2016 14:15	00:15:00	85.2	37.7	68.1	80.6	71.1	53	41.1
01/10/2016 14:30	00:15:00	82.1	37.9	66.6	79.3	69.9	51.7	41.5
01/10/2016 14:45	00:15:00	85.7	39.6	67.2	79.3	70.1	53.9	43.2
01/10/2016 15:00	00:15:00	84.7	37.7	66.4	79	68.6	50.2	41.6
01/10/2016 15:15	00:15:00	83	35.5	67.3	79.5	70.9	54.6	41.7
01/10/2016 15:30	00:15:00	83.5	33.7	67.1	79.9	70.3	49.6	37.3
01/10/2016 15:45	00:15:00	84.5	31.6	67.7	80.1	71.1	46.9	35.6
01/10/2016 16:00	00:15:00	83.2	30	69.3	80.7	74.2	53.4	34.4
01/10/2016 16:15	00:15:00	90.3	31.2	67.8	79.9	70.2	47.6	35.5
01/10/2016 16:30	00:15:00	86.2	31.9	69.4	81.2	74.2	51.1	36.3
01/10/2016 16:45	00:15:00	85.1	33.8	69.4	80.8	74.2	52.5	39.2
01/10/2016 17:00	00:15:00	86.1	34.8	69.2	80.6	74.3	54.1	40.9
01/10/2016 17:15	00:15:00	83.3	33.2	68.4	80.5	72.6	47.6	36
01/10/2016 17:30	00:15:00	83.5	38.1	69.6	80.7	74.7	55.2	41.4
01/10/2016 17:45	00:15:00	84.2	40.9	70.2	81.4	75.6	56.1	44.8
01/10/2016 18:00	00:15:00	84.9	38.3	70.1	81	75.7	57.2	42.1
01/10/2016 18:15	00:15:00	82.7	40.2	68.2	79.9	72.6	54.2	44.2
01/10/2016 18:30	00:15:00	82.7	38.4	67.7	79.8	71.5	51.8	42
01/10/2016 18:45	00:15:00	83.9	36.5	65.8	79.6	65.8	45.4	40.4
01/10/2016 19:00	00:15:00	83	37.7	63.6	77.7	61.2	44.1	40.4
01/10/2016 19:15	00:15:00	81.7	35.3	61.7	76.2	58.8	43	39.4
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01/10/2016 20:15	00:15:00	81.2	37.7	61	76.2	57.6	42.5	40
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01/10/2016 21:30	00:15:00	79.9	34.3	58.5	73	56.4	42.3	38.3
01/10/2016 21:45	00:15:00	85.2	35.9	63	77.4	58.5	43.4	39.1
01/10/2016 22:00	00:15:00	79.1	36.3	57.7	72.7	55	42.4	39.3
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01/10/2016 23:00	00:15:00	87.5	35.1	61.6	75.2	49.7	40.8	37.7
01/10/2016 23:15	00:15:00	80.1	33.9	52.2	58.5	44.5	39.5	36.8
01/10/2016 23:30	00:15:00	82.6	34.1	58.3	71.4	52	41.3	38.3
01/10/2016 23:45	00:15:00	82.5	34.8	60.2	74.6	56	40.7	37.7
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02/10/2016 00:15	00:15:00	79.9	36.2	56.5	67.6	46.1	41.9	39.4
02/10/2016 00:30	00:15:00	81.5	35.7	58.5	73	50.6	43.7	40
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02/10/2016 17:30	00:15:00	84.2	30.5	69.5	80.1	75.1	55.7	36.8
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02/10/2016 21:45	00:15:00	83.8	30.5	58.8	73	50.4	35.1	32.3
02/10/2016 22:00	00:15:00	84	29.2	58.1	70	46	33.5	31.4
02/10/2016 22:15	00:15:00	80.4	30.1	55	65.7	42.5	36.6	33
02/10/2016 22:30	00:15:00	82.3	31.6	59	73	48.6	36.5	34.1
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02/10/2016 23:45	00:15:00	44	27.5	32.4	39.6	34.5	31.2	29.3
03/10/2016 00:00	00:15:00	42.2	24.3	31.2	37.2	33.5	30.4	26.7
03/10/2016 00:15	00:15:00	78.1	25.2	52.9	63.5	37.2	30.3	27.6
03/10/2016 00:30	00:15:00	58.6	27.1	38.5	52.8	33.8	31.1	29
03/10/2016 00:45	00:15:00	77.8	26.7	51.3	58.1	33.3	30.9	29

03/10/2016 01:00	00:15:00	84.2	26.4	57.7	67.3	36.2	31.3	29.2
03/10/2016 01:15	00:15:00	82.5	23.6	53.2	54.7	32.6	29.3	26.7
03/10/2016 01:30	00:15:00	78.4	24.3	47.9	45.2	31	28.8	26.7
03/10/2016 01:45	00:15:00	79.3	22.4	50.5	52.9	30.3	26.8	24.5
03/10/2016 02:00	00:15:00	80.9	25.9	52.6	59.4	34	30.3	27.9
03/10/2016 02:15	00:15:00	72.5	24	46.5	57.2	36.1	31.6	27.5
03/10/2016 02:30	00:15:00	77.9	22	50.5	58.8	29.8	26.7	24
03/10/2016 02:45	00:15:00	80.3	20.5	52.5	58.6	28.6	25.3	22.5
03/10/2016 03:00	00:15:00	80.8	20.2	55.4	65.6	36.6	25.2	21.7
03/10/2016 03:15	00:15:00	79.6	18.6	52.2	59.6	26	21.4	19.8
03/10/2016 03:30	00:15:00	41	19.6	28.5	37.9	32.3	24.7	21.3
03/10/2016 03:45	00:15:00	86.3	21.6	57.3	59.4	29.7	26.3	23.7
03/10/2016 04:00	00:15:00	82.6	20.3	53.5	59.2	31.7	24.8	22.2
03/10/2016 04:15	00:15:00	75.9	23.4	50.6	61.5	38.1	31.8	30.1
03/10/2016 04:30	00:15:00	83	30.1	57.5	68.7	38.5	32.3	31.1
03/10/2016 04:45	00:15:00	82	22.7	54.3	58.5	35.9	28.6	25.1
03/10/2016 05:00	00:15:00	81.1	20.1	59.3	74.2	52.1	30.5	23.2
03/10/2016 05:15	00:15:00	83.9	34.4	59.6	73	53.6	43.5	37.8
03/10/2016 05:30	00:15:00	82.9	36.2	59	73	49.9	39	37.7
03/10/2016 05:45	00:15:00	82.7	31.5	62.5	77.5	58.2	44.2	36
03/10/2016 06:00	00:15:00	81.5	30	59.1	71.7	56.7	39.4	33.7
03/10/2016 06:15	00:15:00	83.3	22.6	63.2	77.8	60.6	37.3	27.5
03/10/2016 06:30	00:15:00	87.9	30	65.7	79.7	63.6	41.8	32
03/10/2016 06:45	00:15:00	81.5	27	63.3	77.2	63.5	43.4	30.1
03/10/2016 07:00	00:15:00	83.8	27.2	64	78.6	62.9	39.5	30.1
03/10/2016 07:15	00:15:00	85.6	27.5	66.2	78.9	67.9	45.7	31.1
03/10/2016 07:30	00:15:00	84.4	31	68.4	80.8	72.2	53.2	38.7
03/10/2016 07:45	00:15:00	85.5	34.4	68.6	80.8	72.2	55.7	46.4
03/10/2016 08:00	00:15:00	83.1	47.1	67.6	80	70.4	57.4	53.2
03/10/2016 08:15	00:15:00	85.5	45.2	68	80.5	70.8	54.3	49.3
03/10/2016 08:30	00:15:00	84.2	46.1	66.9	79.9	68.4	53.8	50.3
03/10/2016 08:45	00:15:00	83.9	38.5	67.1	80.2	69.1	53.5	46
03/10/2016 09:00	00:15:00	84.8	40.1	67.3	80.8	69	52.7	45.1
03/10/2016 09:15	00:15:00	84	42.2	66.2	79.9	66.9	52.9	45.9
03/10/2016 09:30	00:15:00	85.7	45.6	67	79.9	68.8	55.1	49.6
03/10/2016 09:45	00:15:00	84.3	41.9	67.3	80.5	68.8	54.8	48.9
03/10/2016 10:00	00:15:00	83.6	41.3	65.7	78.5	68.4	51.2	45
03/10/2016 10:15	00:15:00	84.9	38.2	66.3	78.4	69.9	52.1	42.8

03/10/2016 10:30	00:15:00	85.2	41.3	67.3	79.5	71.2	52.1	45.9
03/10/2016 10:45	00:15:00	85.1	43.7	66.3	79.1	68.8	55.2	48
03/10/2016 11:00	00:15:00	87.1	43.1	67.3	79.2	70.5	56.5	50.3
03/10/2016 11:15	00:15:00	84.4	43.9	65.7	79.7	63.5	54.9	48.9
03/10/2016 11:30	00:15:00	86.1	38.9	65.9	79.5	66	50.1	43.8
03/10/2016 11:45	00:15:00	86.9	41.9	66.4	79.2	68.1	52.6	47.4
03/10/2016 12:15	00:15:00	85.5	38.4	65	78.2	65.7	52.5	45.6
03/10/2016 12:30	00:15:00	85	37.1	64.8	78.6	63	52.9	42.3
03/10/2016 12:45	00:15:00	83.7	42.7	65.3	79.1	64	53.4	47.6
03/10/2016 13:00	00:15:00	84.7	37.3	65.5	79	66.6	50	42.6
03/10/2016 13:15	00:15:00	82.3	37.7	63.4	78	61.1	47.6	41.9
03/10/2016 13:30	00:15:00	83.8	37.3	63.9	77.8	61.8	46.6	42.1
03/10/2016 13:45	00:15:00	84.2	39.5	65.3	78.8	65.1	47.5	42.5
03/10/2016 14:00	00:15:00	83	36	65.5	78.5	67.5	47.8	40
03/10/2016 14:15	00:15:00	86.2	34.2	64.7	78.3	63.4	42.7	37.3
03/10/2016 14:30	00:15:00	84.1	35.8	66.1	79.3	68.1	47.2	39.2
03/10/2016 14:45	00:15:00	84.6	34.8	63.5	76.9	63.6	43.9	38.3
03/10/2016 15:00	00:15:00	80.8	38.1	64.6	77.8	66.3	49.7	43.2
03/10/2016 15:15	00:15:00	85.4	38.5	65	77.7	66.7	49.8	43.5
03/10/2016 15:30	00:15:00	85.1	40.3	66.4	78.7	69.7	51.6	45.3
03/10/2016 15:45	00:15:00	83.5	39.3	67.2	80.2	69.8	49.3	44
03/10/2016 16:00	00:15:00	88.4	39.2	66.7	79.2	68.7	50.7	45
03/10/2016 16:15	00:15:00	84	39	66.9	79.6	69.9	51.5	44
03/10/2016 16:30	00:15:00	82.8	38.2	67.5	79.8	71.1	53.3	45
03/10/2016 16:45	00:15:00	84.8	33.9	66.6	78.9	70.5	51.4	42.3
03/10/2016 17:00	00:15:00	84.1	31.5	66.2	78.5	69.8	49.7	37.1
03/10/2016 17:15	00:15:00	85.8	38.2	67.6	79.1	71.7	52.2	42
03/10/2016 17:30	00:15:00	84.9	36.4	68.6	80.8	73.1	52.5	41.4
03/10/2016 17:45	00:15:00	85.3	34.8	68.1	80.5	72.1	51.8	40.2
03/10/2016 18:00	00:15:00	86.1	31.5	66.2	79.4	67.8	48.1	36.9
03/10/2016 18:15	00:15:00	83.2	29.6	65.5	78.2	68.3	46.6	32.9
03/10/2016 18:30	00:15:00	83.3	29.2	65.7	79.6	65.9	45.4	32.4
03/10/2016 18:45	00:15:00	84.4	27.8	66.5	80.1	67.3	48.2	31.9
03/10/2016 19:00	00:15:00	87.2	29.7	65.1	79.1	62.9	42.2	33.1
03/10/2016 19:15	00:15:00	85.5	28.7	64	77.8	64.1	38.6	31.9
03/10/2016 19:30	00:15:00	81.1	28.3	62.4	75.8	63	44.9	32.2
03/10/2016 19:45	00:15:00	83.3	25	61.9	76.6	57.5	34.2	29.4
03/10/2016 20:00	00:15:00	86	24.6	59	71	37.3	31.3	28.6

03/10/2016 20:15	00:15:00	83.4	28.4	59.7	73.6	52.7	33.3	30.9
03/10/2016 20:30	00:15:00	85.1	29.9	60.4	74.1	54.7	36.2	32.4
03/10/2016 20:45	00:15:00	82.7	29.8	57.7	71.5	49	34.7	32
03/10/2016 21:00	00:15:00	82.4	30.2	60.4	74.5	55.6	36.4	33.1
03/10/2016 21:15	00:15:00	85.7	30.7	61.6	75.5	54.3	35.5	32.8
03/10/2016 21:30	00:15:00	81.4	30.6	59	74.2	53.3	34.9	32.5
03/10/2016 21:45	00:15:00	87	30.4	63.2	78	56.8	35.6	32.6
03/10/2016 22:00	00:15:00	85.9	28.4	64.3	78.8	59.7	36.8	31.4
03/10/2016 22:15	00:15:00	84.8	27.6	60.8	74.8	55.3	32.8	29.7
03/10/2016 22:30	00:15:00	85.5	26.9	62	76	53.3	32.1	29.4
03/10/2016 22:45	00:15:00	87.9	26.2	62	75	52.3	32.5	29.1
03/10/2016 23:00	00:15:00	83.6	26.7	61.3	76	52.5	32.1	29
03/10/2016 23:15	00:15:00	83.1	26.1	57.5	68.4	44.4	30.9	28.3
03/10/2016 23:30	00:15:00	84.5	27.4	58.9	67.3	40.6	31.6	29.2
03/10/2016 23:45	00:15:00	75.6	27.2	48	52.8	35	31.2	28.9
04/10/2016 00:00	00:15:00	81	26.3	53.7	59.6	34.6	30.9	28.8
04/10/2016 00:15	00:15:00	85	28.5	58.3	71.7	50	32.6	30.4
04/10/2016 00:30	00:15:00	75.3	27	47.8	55.5	34.1	30.7	28.8
04/10/2016 00:45	00:15:00	80.5	26.9	58.1	72.6	46.4	30.9	28.9
04/10/2016 01:00	00:15:00	76.9	26.1	50.1	55.1	34.5	30.6	28.2
04/10/2016 01:15	00:15:00	71.7	25.7	45.4	53.5	33.7	30.6	28.5
04/10/2016 01:30	00:15:00	47.3	29	34.7	44.4	36	33.3	31.3
04/10/2016 01:45	00:15:00	52.3	27.5	35.3	45.8	37	32.4	30.2
04/10/2016 02:00	00:15:00	38.9	26.7	32.5	36.7	34.6	32	29.3
04/10/2016 02:15	00:15:00	73.5	28	47.1	54.4	36.3	33	31
04/10/2016 02:30	00:15:00	76.8	27.4	49.6	56	36	32.2	29.8
04/10/2016 02:45	00:15:00	81.6	28.7	56.6	68.4	42.1	34.4	30.9
04/10/2016 03:00	00:15:00	47.6	29.4	35.5	41.4	37.8	34.8	31.8
04/10/2016 03:15	00:15:00	76.5	26.9	49.9	53.8	36.6	32.1	29.4
04/10/2016 03:30	00:15:00	40.8	29.1	34	38.7	36	33.4	31.4
04/10/2016 03:45	00:15:00	74.2	27.7	47.3	54.9	36.7	32.1	29.6
04/10/2016 04:00	00:15:00	43.3	31.5	36.5	41.8	39.6	35.4	33.3
04/10/2016 04:15	00:15:00	83.3	29.8	59.9	72.8	45.1	34.3	31.8
04/10/2016 04:30	00:15:00	80.1	29.8	55	65.8	38.9	34.2	32.2
04/10/2016 04:45	00:15:00	39.7	28.9	34.3	38.5	36.5	33.8	31.7
04/10/2016 05:00	00:15:00	77.9	27.9	50.5	58.2	43	32.8	30.6
04/10/2016 05:15	00:15:00	84.6	28	59.3	71.8	51.6	37	32
04/10/2016 05:30	00:15:00	81.1	28	58.7	73.3	53.3	36.3	31

04/10/2016 05:45	00:15:00	82.3	30	60.5	75.6	55.6	38.3	33.8
04/10/2016 06:00	00:15:00	82.4	26.9	60	74.3	52.4	34.6	29.4
04/10/2016 06:15	00:15:00	81.4	28.8	60.3	75.6	55.7	34.7	31
04/10/2016 06:30	00:15:00	84.5	27.9	65.1	79.5	63.2	40.5	32.4
04/10/2016 06:45	00:15:00	83.1	30.1	63.9	77.7	64.2	42.1	33.8
04/10/2016 07:00	00:15:00	87	31.4	63.9	78	61.6	39.1	34.9
04/10/2016 07:15	00:15:00	84.4	32.5	65.7	79.6	65.3	44.3	36.1
04/10/2016 07:30	00:15:00	84.6	33.5	68.2	81.1	70.7	50.4	37.8
04/10/2016 07:45	00:15:00	85.7	31.6	68.4	80.9	72.1	51	35
04/10/2016 08:00	00:15:00	84.8	41.8	68.3	80.6	72	52.9	46.1
04/10/2016 08:15	00:15:00	84	41.9	66.5	79.9	67.5	52.8	46.7
04/10/2016 08:30	00:15:00	84.2	40.8	66.8	80.1	67.8	52.6	45.6
04/10/2016 08:45	00:15:00	83.7	40.1	66.7	79.6	68.5	51.6	45
04/10/2016 09:00	00:15:00	83.2	42.4	66.8	79.7	68.9	53.6	47.9
04/10/2016 09:15	00:15:00	85.1	40.7	66.8	80	68.2	54.8	47
04/10/2016 09:30	00:15:00	83.8	40.6	63.9	78.1	61.9	50.5	43.6
04/10/2016 09:45	00:15:00	84.7	38.1	66.1	79.2	68	48.8	41.5
04/10/2016 10:00	00:15:00	85.2	36.9	65.8	78.4	67.9	47.6	40.1
04/10/2016 10:15	00:15:00	82.1	36.2	64.7	77.9	66.3	47.2	40.5
04/10/2016 10:30	00:15:00	82.2	37.7	65.5	78.2	67.7	48.3	42
04/10/2016 10:45	00:15:00	81.3	38.5	64.3	77.5	66.2	46.3	41.3
04/10/2016 11:00	00:15:00	84.5	37.5	65	78.7	65.5	45.8	40.2
04/10/2016 11:15	00:15:00	82.3	38.9	64.3	77.8	65.6	47.3	41.2
04/10/2016 11:30	00:15:00	86.3	40.2	67.1	79.7	70.2	51.6	43.8
04/10/2016 11:45	00:15:00	86.9	39	64.5	77.8	63.9	47.4	42.2
04/10/2016 12:15	00:15:00	81.3	36.7	61.4	76.3	58.6	43.4	39.5
04/10/2016 12:30	00:15:00	85.6	40.2	65.3	78.5	65.6	47.1	42.8
04/10/2016 12:45	00:15:00	84.3	40.6	64.6	78.1	64.5	48.2	44.8
04/10/2016 13:00	00:15:00	84.4	39.5	65.5	79.1	66.8	48.6	42.7
04/10/2016 13:15	00:15:00	83	40.5	64.6	77.4	65.2	49.8	44.5
04/10/2016 13:30	00:15:00	81.9	42.5	64.8	78.3	66.5	50.1	45.8
04/10/2016 13:45	00:15:00	83.3	40.2	64.5	78.1	64.3	49.8	44.7
04/10/2016 14:00	00:15:00	81.4	39.5	65.5	78.6	68	50	43
04/10/2016 14:15	00:15:00	84.4	37	64.3	78.2	63.9	46.3	40
04/10/2016 14:30	00:15:00	84.1	38.7	65.1	77.5	68.2	49.7	42.4
04/10/2016 14:45	00:15:00	84.7	37.8	65.5	78.2	67.8	49	42.3
04/10/2016 15:00	00:15:00	82.8	38.8	64.1	78.5	63	47.1	41
04/10/2016 15:15	00:15:00	82.9	41.9	64.1	77.1	66	49.6	45.1

04/10/2016 15:30	00:15:00	83.6	41.6	66.3	78.9	69.4	51.7	46.1
04/10/2016 15:45	00:15:00	83.6	41.9	64.9	78	67.2	51.3	46.2
04/10/2016 16:00	00:15:00	85.4	42	66.3	79.2	68.8	51.1	45.2
04/10/2016 16:15	00:15:00	84.9	42.5	66.8	79.3	70.1	52.2	45.3
04/10/2016 16:30	00:15:00	82.8	40.1	66.7	79.1	70.6	50.4	43.9
04/10/2016 16:45	00:15:00	84.9	40.9	65.4	78	68.9	49	43.8
04/10/2016 17:00	00:15:00	91.3	35.2	66.3	79	66.5	44.8	37.9
04/10/2016 17:15	00:15:00	82.8	35.5	65.5	78.9	67.1	47.8	40.4
04/10/2016 17:30	00:15:00	84.3	34.1	67.6	80.3	71.1	51.9	38.1
04/10/2016 17:45	00:15:00	85.6	37.4	67.6	80.3	70.7	52.4	41
04/10/2016 18:00	00:15:00	86.6	34.9	66.3	79.4	67.9	46.5	38.4
04/10/2016 18:15	00:15:00	85.9	36.7	66.9	79.7	69.1	49.6	40.6
04/10/2016 18:30	00:15:00	83.7	36.3	64.5	78.2	64.4	45.9	40.3
04/10/2016 18:45	00:15:00	83.9	37.8	65.9	80	65.7	46.9	40.7
04/10/2016 19:00	00:15:00	85.1	36.4	63.9	78.2	59.9	44.3	39.7
04/10/2016 19:15	00:15:00	85	33.4	62.8	76.8	58.7	39.9	35.3
04/10/2016 19:30	00:15:00	86.3	33.2	64.1	78.3	59.9	44.7	35.9
04/10/2016 19:45	00:15:00	84	33.2	63	77.4	58.9	41.2	36.5
04/10/2016 20:00	00:15:00	87.5	35.2	64.5	78.1	61.3	43.5	37.6
04/10/2016 20:15	00:15:00	81.8	34.7	59.7	75	52.7	39.5	36.7
04/10/2016 20:30	00:15:00	86.4	34.1	63.8	77.9	57.8	41.5	37.4
04/10/2016 20:45	00:15:00	82	34.8	61.7	76.6	55.4	41.2	37.4
04/10/2016 21:00	00:15:00	82.3	34.1	61.5	76.6	56.8	41.3	36.8
04/10/2016 21:15	00:15:00	87.1	33.7	62.2	77.1	50.7	39.8	36.4
04/10/2016 21:30	00:15:00	81	33.1	60.4	75.7	54	40.3	36
04/10/2016 21:45	00:15:00	82.7	32.9	57.9	72.1	49.1	38.6	35.2
04/10/2016 22:00	00:15:00	76	34.5	52.7	66	44.2	39.6	37.2
04/10/2016 22:15	00:15:00	83.4	34.3	59.4	73.5	49.4	39.6	36.7
04/10/2016 22:30	00:15:00	81.3	32.9	58.7	72.9	49.6	37.3	34.6
04/10/2016 22:45	00:15:00	82.6	35.1	59.2	74	50.5	41	37.4
04/10/2016 23:00	00:15:00	79.4	34.4	54	66.8	45.4	39.9	37
04/10/2016 23:15	00:15:00	81	34.6	53	56	44.5	39	37
04/10/2016 23:30	00:15:00	83.2	34.4	55.6	64	43.3	38.7	36.4
04/10/2016 23:45	00:15:00	81.4	33.8	57	70.5	50.3	38.9	36.4
05/10/2016 00:00	00:15:00	74.6	34	47.9	58.5	44.1	39.3	36.3
05/10/2016 00:15	00:15:00	82.3	32	55.6	68.3	43.4	37.4	34.6
05/10/2016 00:30	00:15:00	60.8	30.5	41.1	51.7	41.8	37.6	34.8
05/10/2016 00:45	00:15:00	43.6	31.3	36.7	41.3	38.8	36.2	34.2

05/10/2016 01:00	00:15:00	79	32.9	52.8	64.3	43.4	38.1	35.4
05/10/2016 01:15	00:15:00	82.7	32.5	57.4	71	45	38.1	35.2
05/10/2016 01:30	00:15:00	45.1	31.7	37.2	42.5	39.7	36.3	34
05/10/2016 01:45	00:15:00	73.8	32.2	47.6	54.2	41	37.2	34.2
05/10/2016 02:00	00:15:00	51.5	32.4	37.9	44.6	39.8	36.8	34.4
05/10/2016 02:15	00:15:00	45.4	33.6	38.3	42.7	40.4	37.9	35.4
05/10/2016 02:30	00:15:00	49.3	33.3	39.5	47.2	41.6	38.2	35.6
05/10/2016 02:45	00:15:00	78.3	33.4	51.5	56.4	41.7	37.8	35.3
05/10/2016 03:00	00:15:00	44.5	33.4	38.6	43.2	40.8	38	35.6
05/10/2016 03:15	00:15:00	77.5	31.8	52.3	64.7	41.8	35.7	33.5
05/10/2016 03:30	00:15:00	50.7	32.5	38.1	46.3	40.5	36.6	34.4
05/10/2016 03:45	00:15:00	76.8	31.3	49.2	54.4	40.3	36.5	34.3
05/10/2016 04:00	00:15:00	79	31.6	50.6	56.3	38.7	35.6	33.5
05/10/2016 04:15	00:15:00	81.5	33.2	54.1	58	40.9	38	35.5
05/10/2016 04:30	00:15:00	47.5	32.8	38.2	44.7	40.4	37.4	35.1
05/10/2016 04:45	00:15:00	81.9	34.2	53.5	60.8	41.7	38.4	36.2
05/10/2016 05:00	00:15:00	81.9	35.4	58.8	72.3	47.3	40.4	37.8
05/10/2016 05:15	00:15:00	61.9	36.6	44.3	55.4	45.4	41.6	39.2
05/10/2016 05:30	00:15:00	82.1	33.6	57.9	72.1	51.5	40	36.4
05/10/2016 05:45	00:15:00	83	31.6	59.9	75	52.3	36.8	34.1
05/10/2016 06:00	00:15:00	82.6	34.1	61.5	76.5	55.5	39.5	36.5
05/10/2016 06:15	00:15:00	82.4	33.3	64	78.5	62.2	41.9	36.4
05/10/2016 06:30	00:15:00	82.7	33.9	63.7	78.2	60.4	41.7	38
05/10/2016 06:45	00:15:00	82.6	34.8	63.3	78	60.2	41.5	37.4
05/10/2016 07:00	00:15:00	85.3	34.9	63.3	77.3	59.8	41.6	37.6
05/10/2016 07:15	00:15:00	84.5	35.3	65.8	79.6	65.3	43.9	37.9
05/10/2016 07:30	00:15:00	82.4	37.4	65.8	79	67.5	47	39.4
05/10/2016 07:45	00:15:00	86.1	38.8	68.3	81.1	71.6	50	42.1
05/10/2016 08:00	00:15:00	82.7	39.9	67.4	79.9	70.6	51.6	42.3
05/10/2016 08:15	00:15:00	84.6	40.6	67.9	80.2	71.9	53.2	43.5
05/10/2016 08:30	00:15:00	88.8	41.4	68.1	80.6	70.3	50.3	43.7
05/10/2016 08:45	00:15:00	84.8	41.7	67.1	79.5	70.8	51.6	44.1
05/10/2016 09:00	00:15:00	85.2	40.5	67.6	80.1	70.8	51.2	43.6
05/10/2016 09:15	00:15:00	85.1	37.1	65.8	80.1	64.6	45.3	41
05/10/2016 09:30	00:15:00	83.7	39.4	66.7	80.2	67.6	46.4	41.7
05/10/2016 09:45	00:15:00	84.2	41.2	65.8	78.8	67.5	48.6	43.9
05/10/2016 10:00	00:15:00	84	40.3	66.5	79.6	69.2	49.4	44.3
05/10/2016 10:15	00:15:00	84.1	41	66.2	78.8	68.3	50.5	43.7

05/10/2016 10:30	00:15:00	83.9	40.9	65	78.6	65.8	48	44.1
05/10/2016 10:45	00:15:00	84.7	41.1	65.8	78.8	68.3	49.6	44.3
05/10/2016 11:00	00:15:00	90.9	44.2	66.9	78.9	68.8	52.8	47.5
05/10/2016 11:15	00:15:00	84	44.5	67.2	79.5	70.2	54.4	48.9
05/10/2016 11:30	00:15:00	84.9	43.5	67.1	80.2	69.2	54	47.9
05/10/2016 11:45	00:15:00	82.7	43.8	64.3	77.8	64.8	51.9	46.9
05/10/2016 12:15	00:15:00	84.3	42.6	66.4	80	67.9	52.3	46.8
05/10/2016 12:30	00:15:00	84.9	42.3	66.3	79.9	66.2	51.8	47
05/10/2016 12:45	00:15:00	83.2	44.5	65.4	78.5	67	52.8	48.9
05/10/2016 13:00	00:15:00	83.6	43.8	66.6	78.2	70.6	53.3	47.7
05/10/2016 13:15	00:15:00	82.8	42.7	67.1	79.2	71	54.8	46.3
05/10/2016 13:30	00:15:00	82.6	45.6	66.1	78.2	70	54	49.2
05/10/2016 13:45	00:15:00	83.5	41.8	65.1	78.1	66.9	51.4	46.6
05/10/2016 14:00	00:15:00	83.1	43	65.6	78.4	67.7	50.7	46.1
05/10/2016 14:15	00:15:00	82.7	43.1	65.2	78.2	67.6	52	47.2
05/10/2016 14:30	00:15:00	85.7	42.6	66.5	79.3	68.6	51.2	46
05/10/2016 14:45	00:15:00	83	42.7	66.5	79.2	69.9	53.7	46.7
05/10/2016 15:00	00:15:00	87.3	45.3	66.2	78.5	67.8	55	50.5
05/10/2016 15:15	00:15:00	86.2	45.8	67	80	68.1	55.6	50.2
05/10/2016 15:30	00:15:00	83.8	45.6	65.7	78.5	68	54.5	48.9
05/10/2016 15:45	00:15:00	84.5	44.8	66.4	78.6	69.7	54.8	48.1
05/10/2016 16:00	00:15:00	83.9	44.3	66.2	79	69.2	53.8	48.2
05/10/2016 16:15	00:15:00	85.4	45.4	67.1	79.7	69.4	54.3	48.7
05/10/2016 16:30	00:15:00	85	43.7	65.5	78.2	67.3	53.3	47.1
05/10/2016 16:45	00:15:00	84.8	40.6	65.1	78.6	66.7	51.7	45.9
05/10/2016 17:00	00:15:00	84.8	40.2	66.3	79.4	66.8	50	44.1
05/10/2016 17:15	00:15:00	83.3	41.8	67	79.3	70.9	52.4	45.8
05/10/2016 17:30	00:15:00	82.8	40.4	67.8	80.4	71.4	51.5	43.4
05/10/2016 17:45	00:15:00	83.1	39.5	67.3	79.8	70.7	50.9	43.8
05/10/2016 18:00	00:15:00	87.1	39.5	67.1	79.8	69.3	50.3	42.6
05/10/2016 18:15	00:15:00	84.1	38.2	65.2	78.5	66.2	46.8	41.3
05/10/2016 18:30	00:15:00	84.8	38.8	66.8	80.3	68.9	48.2	41.3
05/10/2016 18:45	00:15:00	84.9	38.4	64.2	78	62.8	45.8	40.7
05/10/2016 19:00	00:15:00	86.2	39.1	65.3	79.7	62.7	45.2	41.5
05/10/2016 19:15	00:15:00	88.6	35.3	65.6	79.5	64	45.2	38.8
05/10/2016 19:30	00:15:00	83.1	37.3	62.5	77.2	58	44.4	40
05/10/2016 19:45	00:15:00	85.9	38.2	63.6	78	59.5	44.7	40.3
05/10/2016 20:00	00:15:00	86.3	36.8	64.1	78.6	60.4	43.4	39.8

05/10/2016 20:15	00:15:00	86.8	35.8	62.1	76	54.3	41	37.5
05/10/2016 20:30	00:15:00	80.4	35.9	56.2	69	48.4	42	38.1
05/10/2016 20:45	00:15:00	85.7	34.8	64	79.5	56.8	40	36.9
05/10/2016 21:00	00:15:00	84.9	36.3	60	73.9	50.7	41.4	38.6
05/10/2016 21:15	00:15:00	82.9	36.3	61.1	75.6	54.6	41.6	39
05/10/2016 21:30	00:15:00	88.9	36.1	62.8	76.5	56.9	41.9	38.2
05/10/2016 21:45	00:15:00	84.4	36.7	62.8	77.6	56	41.9	39.4
05/10/2016 22:00	00:15:00	84.5	38.1	62.2	76.2	55	43.4	40.5
05/10/2016 22:15	00:15:00	83.8	38.6	59.4	73.1	48.9	43.2	40.7
05/10/2016 22:30	00:15:00	83.3	37.5	58.6	72	49.2	43.3	40.4
05/10/2016 22:45	00:15:00	77	37	54.4	68.4	45.2	41.1	39.1
05/10/2016 23:00	00:15:00	81.4	34.7	54.7	63.9	43.7	39.7	37.4
05/10/2016 23:15	00:15:00	81.7	34	58.4	72.2	45.8	37.9	35.7
05/10/2016 23:30	00:15:00	80	30.7	56.3	70.2	42.6	36.5	33.4
05/10/2016 23:45	00:15:00	87.5	29.9	58.3	61.2	38.1	34.7	32.5
06/10/2016 00:00	00:15:00	46.8	31.5	36.6	41.6	38.7	35.9	33.5
06/10/2016 00:15	00:15:00	77.6	30.8	50.8	54.2	40.8	36.5	34.1
06/10/2016 00:30	00:15:00	78.3	30.8	50.4	55.5	39.5	36.2	33.7
06/10/2016 00:45	00:15:00	79.2	31.1	50.6	56	39.6	35.3	33.1
06/10/2016 01:00	00:15:00	81.3	30.2	52.8	57.8	37	33.8	31.9
06/10/2016 01:15	00:15:00	77.2	28.6	52.3	65.7	36.7	33.3	31.1
06/10/2016 01:30	00:15:00	78.4	27.6	50.5	55.5	36	32.6	30.1
06/10/2016 01:45	00:15:00	40.1	27	31.6	35.8	33.6	31.1	29.1
06/10/2016 02:00	00:15:00	40.1	27.1	32.4	37.8	34.7	31.6	29.4
06/10/2016 02:15	00:15:00	81.7	27.2	56.8	66.5	39.8	32.6	29.9
06/10/2016 02:30	00:15:00	41.2	26.9	32.7	38.1	34.8	32	29.5
06/10/2016 02:45	00:15:00	80	26.2	54.4	63.8	35.6	31.2	28.7
06/10/2016 03:00	00:15:00	41.1	25.7	30.3	35.7	32.5	29.4	27.3
06/10/2016 03:15	00:15:00	40.3	24.5	31	37.2	33.7	29.8	27.2
06/10/2016 03:30	00:15:00	40.9	24.2	30.5	36.2	32.8	29.6	27
06/10/2016 03:45	00:15:00	44.9	24.6	31.6	36.9	33.7	30.6	27.6
06/10/2016 04:00	00:15:00	78.2	24.7	50.2	56.5	35.1	30.6	27.5
06/10/2016 04:15	00:15:00	81.4	24.6	53.9	58.1	34.3	30.2	27.1
06/10/2016 04:30	00:15:00	40.2	25.3	31.6	37.1	34.2	30.5	28.1
06/10/2016 04:45	00:15:00	78.6	26.6	50.3	57.4	39.5	32.7	29.7
06/10/2016 05:00	00:15:00	83.9	31.2	58.8	72	48.2	35.4	33.6
06/10/2016 05:15	00:15:00	78.8	25.6	51.2	57	36.9	32.9	28.8
06/10/2016 05:30	00:15:00	85.3	27.3	62.5	77.1	56	36.4	31.4

06/10/2016 05:45	00:15:00	84.2	27.6	60.1	74.3	51.8	36.3	32.4
06/10/2016 06:00	00:15:00	84.7	27.3	59.1	72.7	51.5	35.9	32.3
06/10/2016 06:15	00:15:00	81.6	38.2	62.1	76.9	60	45.3	41.1
06/10/2016 06:30	00:15:00	83.5	34.4	63.8	78.6	61.1	42.6	38.3
06/10/2016 06:45	00:15:00	83.8	35	62.4	77.5	58.8	45.6	37.4
06/10/2016 07:00	00:15:00	86.2	35.1	65.8	80	64	42.9	37.3
06/10/2016 07:15	00:15:00	84.2	35.4	66.4	79.7	66.8	49.9	38.9
06/10/2016 07:30	00:15:00	85.7	40.6	67.7	80.4	70.3	51.5	42.6
06/10/2016 07:45	00:15:00	85.1	40.1	67.8	80.7	70	51.5	43.2
06/10/2016 08:00	00:15:00	83.1	38.1	67	80.2	68.4	50.8	41.8
06/10/2016 08:15	00:15:00	85	37.8	68.6	81.2	72.3	54.7	43.3
06/10/2016 08:30	00:15:00	85	39.1	67.8	81.1	69.8	51	42.1
06/10/2016 08:45	00:15:00	83	38.2	67	80.4	69.1	47.5	41.2
06/10/2016 09:00	00:15:00	84.4	37.4	65.4	79.4	64.3	44.7	40.6
06/10/2016 09:15	00:15:00	84.8	39.5	64.9	77.8	66.5	47.6	42
06/10/2016 09:30	00:15:00	84.4	39.2	65.7	79.1	65.6	48	42.6
06/10/2016 09:45	00:15:00	84.8	41.2	65.9	79.1	68	49.6	44.7
06/10/2016 10:00	00:15:00	85.5	42.8	66.4	78.8	69.4	51.1	45.8
06/10/2016 10:15	00:15:00	85	44	66.5	78.5	70.1	53.1	47.6
06/10/2016 10:30	00:15:00	84.5	43.5	66.8	79.4	70	52.9	47
06/10/2016 10:45	00:15:00	85.9	44.2	65.4	78.6	64.9	51.6	47.3
06/10/2016 11:00	00:15:00	82	40.5	65.2	78.7	66.1	48.2	43.6
06/10/2016 11:15	00:15:00	82.1	41.6	65.4	77.8	69	51.2	45.6
06/10/2016 11:30	00:15:00	84.9	40.6	66.2	80	66.3	47.8	43.4
06/10/2016 11:45	00:15:00	82.8	38.1	64.4	77.7	64.6	48.1	43
06/10/2016 12:15	00:15:00	83.3	39.4	65.6	78.8	67	49.5	44
06/10/2016 12:30	00:15:00	82.5	38.1	63.6	77.9	62	46.7	41.8
06/10/2016 12:45	00:15:00	84	42.7	65.3	78.4	66.7	50.8	46.3
06/10/2016 13:00	00:15:00	87.5	38.8	65.5	78.5	64.8	47.6	42.7
06/10/2016 13:15	00:15:00	83.8	41.3	65.8	78.8	67.6	50	45.1
06/10/2016 13:30	00:15:00	81.7	39.9	65.7	79	67.3	50.2	44.1
06/10/2016 13:45	00:15:00	85	41.4	66	79.7	65.6	50.3	44.6
06/10/2016 14:00	00:15:00	83	40.3	63.7	77.5	63.3	48.4	44
06/10/2016 14:15	00:15:00	83.3	40.2	64.8	78.4	64.1	47.9	43.5
06/10/2016 14:30	00:15:00	84.4	39.4	65.2	78.6	64.7	49.1	43.5
06/10/2016 14:45	00:15:00	87.3	36.6	66.4	78.9	67.9	48.9	42
06/10/2016 15:00	00:15:00	82.4	39.7	66.6	79.5	69	53.6	44.1
06/10/2016 15:15	00:15:00	86.6	39.1	66	79.1	67.7	50.1	43.8

06/10/2016 15:30	00:15:00	86.8	42	65.8	78	68.9	51.8	45.3
06/10/2016 15:45	00:15:00	83.1	41.8	66	78.9	68.8	50.5	45.3
06/10/2016 16:00	00:15:00	88.3	38.9	67.7	79.6	71.7	54.1	45
06/10/2016 16:15	00:15:00	85.9	41.8	67.4	80.4	69.8	52.4	46.4
06/10/2016 16:30	00:15:00	83.7	39.5	67.5	79.8	71	51.2	43.3
06/10/2016 16:45	00:15:00	88.7	42.5	68.6	80.4	72.5	53.3	46.5
06/10/2016 17:00	00:15:00	94	41.4	68.6	80.1	72.3	53.2	45.3
06/10/2016 17:15	00:15:00	92.8	44.6	70.7	81.8	75	55.9	48.6
06/10/2016 17:30	00:15:00	86.2	43.9	70	81.6	74.6	54.5	47.6
06/10/2016 17:45	00:15:00	84.1	37.8	67.7	80.3	71.4	50.5	41.5
06/10/2016 18:00	00:15:00	96.1	37.6	69.5	80.1	69.5	50.5	43.4
06/10/2016 18:15	00:15:00	84.3	36.3	65.5	78.7	66.9	49.2	39.3
06/10/2016 18:30	00:15:00	82.5	38.6	63.3	77.1	62	47.1	41.8
06/10/2016 18:45	00:15:00	86.6	36.4	67	81.1	65.9	46.6	40.5
06/10/2016 19:00	00:15:00	91	34.3	67.1	80.2	65.1	46.2	38.1
06/10/2016 19:15	00:15:00	83.3	34.2	61.1	75.3	54.7	40.7	36.8
06/10/2016 19:30	00:15:00	87.1	34.3	64.2	77.7	61.6	43	37.2
06/10/2016 19:45	00:15:00	82.6	35.9	62.2	76.6	59.5	43.8	39.2
06/10/2016 20:00	00:15:00	82	35.3	63	77.6	61.2	43.3	39.1
06/10/2016 20:15	00:15:00	82.2	37.1	60.6	75.2	54.5	43.4	40
06/10/2016 20:30	00:15:00	82.5	36.1	63	78.1	58.6	43.6	40
06/10/2016 20:45	00:15:00	83	34.9	59.4	74.7	52.1	41.6	38.1
06/10/2016 21:00	00:15:00	79.7	34.9	59.5	74.5	53.6	42.5	38.9
06/10/2016 21:15	00:15:00	81.2	36.7	58.7	73.4	51.7	44	39.9
06/10/2016 21:30	00:15:00	82.4	35.3	61	76.3	55.5	43.9	39.1
06/10/2016 21:45	00:15:00	82.2	35.6	58.5	72.6	49	41.3	38.5
06/10/2016 22:00	00:15:00	81.1	37.9	56.4	69.8	49.9	44	41.1
06/10/2016 22:15	00:15:00	88.7	36.7	62.5	77.2	55.9	43.4	39.9
06/10/2016 22:30	00:15:00	80.7	34.3	57	70.3	48.9	40.8	37.4
06/10/2016 22:45	00:15:00	82.1	33.4	58.9	72.8	49.4	39.7	36.6
06/10/2016 23:00	00:15:00	81.5	33	57.3	70.9	47.3	40.4	36.7
06/10/2016 23:15	00:15:00	81.4	29.9	56	65.5	42.3	35.6	32.6
06/10/2016 23:30	00:15:00	79	28.6	53.6	62.6	42.9	34.1	31.4
06/10/2016 23:45	00:15:00	80	29.2	58	73.2	49.7	36.1	32.2
07/10/2016 00:00	00:15:00	76	30.6	48.8	56.2	39.5	35.6	33
07/10/2016 00:15	00:15:00	45.8	29	36.3	42.1	38.6	35.5	33
07/10/2016 00:30	00:15:00	77.4	29.7	54	67.7	42.4	34.9	32.1
07/10/2016 00:45	00:15:00	48.4	28.5	35.6	43.8	37.8	34.1	31.2

07/10/2016 01:00	00:15:00	46.5	25.8	32.2	39.6	34.6	30.9	28
07/10/2016 01:15	00:15:00	41.6	25.1	31.4	38.1	34.1	30	27.4
07/10/2016 01:30	00:15:00	80.7	23.3	53.2	61.7	33.6	29.1	26.4
07/10/2016 01:45	00:15:00	78.4	23.8	51.4	59.6	36.2	29	26.2
07/10/2016 02:00	00:15:00	37.1	23.3	28.5	33.9	31	27.4	25.1
07/10/2016 02:15	00:15:00	78.2	23.7	50.7	61	32.7	28.1	25.9
07/10/2016 02:30	00:15:00	45.1	22.7	29.6	39.1	32.1	27.5	24.6
07/10/2016 02:45	00:15:00	79.4	25.2	54.7	65.7	36.4	30.9	28
07/10/2016 03:00	00:15:00	48.8	25.2	33.1	39.7	35.3	31.9	29.1
07/10/2016 03:15	00:15:00	43	26	32.9	38.8	35.4	31.9	29.2
07/10/2016 03:30	00:15:00	82.6	27.4	56.1	65	39.9	33.1	30.3
07/10/2016 03:45	00:15:00	79.3	28.1	51.4	54.5	37.3	33.4	30.6
07/10/2016 04:00	00:15:00	50.4	29.3	36.3	42.1	38.8	35.2	32.3
07/10/2016 04:15	00:15:00	82.3	27.1	54.4	54.9	37.8	33.4	30.4
07/10/2016 04:30	00:15:00	44.9	29.5	36.5	41.7	38.8	35.9	33.4
07/10/2016 04:45	00:15:00	49.6	30.2	36.9	44	39.2	35.7	33
07/10/2016 05:00	00:15:00	84	33.1	58.5	68.7	47.1	38.5	35.5
07/10/2016 05:15	00:15:00	85.1	29.2	56.6	61.6	50.6	47.2	34.5
07/10/2016 05:30	00:15:00	81.5	29	61	76.4	53.3	37.3	33
07/10/2016 05:45	00:15:00	82.2	28.5	59.4	74.6	50.2	36.5	33.1
07/10/2016 06:00	00:15:00	83.5	30.8	61.8	76.2	55.1	36.8	33.8
07/10/2016 06:15	00:15:00	84.8	34.9	64	78.4	60.8	40.7	37.6
07/10/2016 06:30	00:15:00	84.6	33.2	63.6	77.5	61.4	41.4	37.3
07/10/2016 06:45	00:15:00	87.3	34.5	65.4	79.2	63.6	40.8	37.4
07/10/2016 07:00	00:15:00	83.3	33.1	63.5	78.7	58.8	39.2	35.4
07/10/2016 07:15	00:15:00	86.2	32.2	65.9	79.8	65.9	43.1	35.6
07/10/2016 07:30	00:15:00	84.9	33.8	68.8	81.4	71.8	50.2	36.5
07/10/2016 07:45	00:15:00	84.6	33.9	68.1	80.6	71.5	50.8	38.8
07/10/2016 08:00	00:15:00	86.2	31.9	67.5	80.6	69	47.7	35.2
07/10/2016 08:15	00:15:00	86.9	32.3	68.5	80.5	72.1	51.4	38.8
07/10/2016 08:30	00:15:00	84.7	32.8	68	80.5	71.2	52	39.4
07/10/2016 08:45	00:15:00	83.9	33.5	65.4	78.8	66.3	46.5	36
07/10/2016 09:00	00:15:00	83.3	31.8	66.8	79.6	69.4	47.8	35.4
07/10/2016 09:15	00:15:00	85.6	33.4	68	80.6	70.9	51.5	37.3
07/10/2016 09:30	00:15:00	83.5	31.3	66.6	79.5	69.2	48.2	35.4
07/10/2016 09:45	00:15:00	85.6	32	66.9	79.6	69.9	45.9	34.8
07/10/2016 10:00	00:15:00	83.2	31.2	67.4	80.6	70	50	34.6
07/10/2016 10:15	00:15:00	83.9	32	67.9	80	72.6	51.3	35.7

07/10/2016 10:30	00:15:00	85.5	30.4	67.3	79.8	70.2	49.3	35
07/10/2016 10:45	00:15:00	82.2	36.8	68.6	80.2	73.7	55.3	40.7
07/10/2016 11:00	00:15:00	85.8	35.3	67.5	79.6	71.3	51.2	38.8
07/10/2016 11:15	00:15:00	86.5	31.9	67.5	79.5	71.2	53	38.3
07/10/2016 11:30	00:15:00	84.9	29.8	66.6	79.8	68	46.5	33.4
07/10/2016 11:45	00:15:00	83.8	30.5	66.1	79.8	67	44.8	33.6
07/10/2016 12:15	00:15:00	87.7	30.7	67.7	80.9	68.1	45.9	36.3
07/10/2016 12:30	00:15:00	85.4	32.3	66.4	79.3	68.7	48	36.5
07/10/2016 12:45	00:15:00	83.6	32	65.9	77.9	69.2	47.9	35.7
07/10/2016 13:00	00:15:00	81.1	32.5	63.1	77.1	63.7	43.7	35.4
07/10/2016 13:15	00:15:00	83.9	31.8	63.8	77.7	64.5	43	35.3
07/10/2016 13:30	00:15:00	86.2	33.5	67.9	80.3	71	52.8	38.2
07/10/2016 13:45	00:15:00	83.6	33.5	66.6	79.7	68.9	49	36
07/10/2016 14:00	00:15:00	83.2	30.3	65	78.8	65.6	45.3	34.4
07/10/2016 14:15	00:15:00	83	31.7	65.9	78.7	69	49.4	37.2
07/10/2016 14:30	00:15:00	82.1	32.6	66.5	79.1	69.5	50.1	37
07/10/2016 14:45	00:15:00	84.9	32.4	65.8	78.7	67.6	47.1	35.7
07/10/2016 15:00	00:15:00	84.6	33.9	68.1	80.3	72.3	53.2	39.4
07/10/2016 15:15	00:15:00	86.3	32.3	65.5	78.8	65.7	45.6	35.6
07/10/2016 15:30	00:15:00	84.6	33.4	66.8	78.7	70.9	51.8	40.3
07/10/2016 15:45	00:15:00	83.9	32.8	67.1	80	69.4	49.2	39.7
07/10/2016 16:00	00:15:00	86.8	34.6	67.9	80.4	71.3	50.5	40.4
07/10/2016 16:15	00:15:00	84.2	32	67.5	79.9	71	49.5	35.1
07/10/2016 16:30	00:15:00	83.1	33.8	69.5	80.5	74.9	56.6	42.9
07/10/2016 16:45	00:15:00	87.7	35.8	69.2	80.9	73.7	54.4	42.8
07/10/2016 17:00	00:15:00	82.6	32.1	68.6	79.7	74.2	53.6	37.3
07/10/2016 17:15	00:15:00	82.8	38.8	68.4	80	73.5	54.6	44
07/10/2016 17:30	00:15:00	86.5	34.3	69.4	80.6	74.4	55.7	43.9
07/10/2016 17:45	00:15:00	86.1	33.3	68.7	80.6	73	53.1	38.2
07/10/2016 18:00	00:15:00	83.4	34	66.6	78.7	70.1	50.4	37.5
07/10/2016 18:15	00:15:00	88.5	32.7	67.4	80.1	69.8	51.6	37.5
07/10/2016 18:30	00:15:00	86.4	35.5	66.4	79.3	67.4	47.5	38.7
07/10/2016 18:45	00:15:00	83.2	34.2	63.7	77.8	62.9	44.2	37.5
07/10/2016 19:00	00:15:00	83.3	32.9	64.9	77.9	66.2	45.6	37
07/10/2016 19:15	00:15:00	89.4	34.1	66.1	79.6	65.2	46.6	38.3
07/10/2016 19:30	00:15:00	85.5	31	64.1	78	63.5	44	36.5
07/10/2016 19:45	00:15:00	81.5	31.4	59.3	74	54.3	38.4	35.3
07/10/2016 20:00	00:15:00	81.9	31.4	61	76.4	56.3	39.3	34.8

07/10/2016 20:15	00:15:00	82.4	29.8	63.7	78.4	62.1	40.8	34.6
07/10/2016 20:30	00:15:00	84.9	28.9	61.6	76.1	57.4	38.4	33.5
07/10/2016 20:45	00:15:00	80	29.3	59.6	74.1	55.4	36.8	32.9
07/10/2016 21:00	00:15:00	87.3	28.9	64.5	77.9	61.1	43.2	33.3
07/10/2016 21:15	00:15:00	84.2	28.3	62.4	76.8	55.5	37.1	33.2
07/10/2016 21:30	00:15:00	86.4	31.4	63.8	78.3	59.6	38.8	34.6
07/10/2016 21:45	00:15:00	85.2	30.1	62.9	77.6	58.5	40.9	34.3
07/10/2016 22:00	00:15:00	86.8	29.4	64.1	78.5	58.1	37.5	33
07/10/2016 22:15	00:15:00	82.1	30	60.9	75.7	55.5	37.3	33.8
07/10/2016 22:30	00:15:00	85.9	32.6	63.4	78.4	57.6	38.8	35.4
07/10/2016 22:45	00:15:00	86	31.3	62.3	76.8	56	37.8	34.7
07/10/2016 23:00	00:15:00	81.4	29.9	58.1	72.8	51	36.6	33.4
07/10/2016 23:15	00:15:00	81.8	30	58.6	73.5	51.2	37.2	33.7
07/10/2016 23:30	00:15:00	81.7	29.9	55	65.3	41.2	35.7	33
07/10/2016 23:45	00:15:00	83.4	31	58.9	72.6	46.2	36.8	34.1
08/10/2016 00:00	00:15:00	80.4	32	57.4	70.7	45.7	37	34.4
08/10/2016 00:15	00:15:00	87.3	31.4	59.2	68	42.1	36.9	34.3
08/10/2016 00:30	00:15:00	82.4	31.7	56.6	67.4	43.3	38.5	35
08/10/2016 00:45	00:15:00	50.7	30.1	39	46.1	41.4	37.8	35.1
08/10/2016 01:00	00:15:00	83.5	29.4	55	56.5	40.8	36.6	33.4
08/10/2016 01:15	00:15:00	79.7	30.7	51.9	58.3	41.2	37.2	34.3
08/10/2016 01:30	00:15:00	82.4	31.6	58.5	72	44.1	37.3	34.7
08/10/2016 01:45	00:15:00	55.4	31.4	38.6	48.2	40	36.5	34.2
08/10/2016 02:00	00:15:00	84.5	32.1	55.5	62.7	40.7	37.2	34.9
08/10/2016 02:15	00:15:00	82.3	33.5	54.5	61.3	42.2	38.6	36
08/10/2016 02:30	00:15:00	80.5	33.8	53.7	58.8	42	38.6	36.2
08/10/2016 02:45	00:15:00	73.3	33.6	48.2	56.8	44.4	39.6	36.9
08/10/2016 03:00	00:15:00	76.1	32.6	50	57.9	42.9	38.7	36.2
08/10/2016 03:15	00:15:00	53.4	33.6	39.9	46.7	42	38.8	36.3
08/10/2016 03:30	00:15:00	76.7	31.6	49.3	55.7	42.3	38	35.5
08/10/2016 03:45	00:15:00	56.3	31.2	38.6	44.3	40.1	37.1	34.6
08/10/2016 04:00	00:15:00	50.2	29.5	37.7	45.5	40.6	35.9	32.6
08/10/2016 04:15	00:15:00	74	30.3	48.9	59.2	41.3	37.4	34.3
08/10/2016 04:30	00:15:00	76.7	31.3	50.9	59.9	44.5	38.6	35.3
08/10/2016 04:45	00:15:00	77.4	32.5	58	71	50.5	40.1	35.8
08/10/2016 05:00	00:15:00	57	32.8	40.3	49.2	42.5	37.9	35.3
08/10/2016 05:15	00:15:00	77	33.6	50.5	59	43.3	38.9	36.1
08/10/2016 05:30	00:15:00	77.8	34.3	56.2	71.1	48.7	40.6	37.7

08/10/2016 05:45	00:15:00	83.1	35	59.4	73.7	52.4	41	38.1
08/10/2016 06:00	00:15:00	80	33.5	57.1	70.7	50.9	40.6	36.7
08/10/2016 06:15	00:15:00	87.4	34.3	60.5	74.6	52.8	40.2	37.2
08/10/2016 06:30	00:15:00	86.2	34.7	60	74.4	54.3	42.3	37.4
08/10/2016 06:45	00:15:00	83.3	34.5	60.7	74.7	56.5	42.3	37
08/10/2016 07:00	00:15:00	81.8	34.5	58.6	71.5	51.6	40.9	38
08/10/2016 07:15	00:15:00	86.3	34.8	62.4	75.9	54.3	41.4	38
08/10/2016 07:30	00:15:00	81.3	32.9	60.9	76	57.5	41.1	37.3
08/10/2016 07:45	00:15:00	88.4	34.2	66.2	80.5	64.9	43.1	38
08/10/2016 08:00	00:15:00	85.4	35.2	64.5	79.2	61.6	46.2	39
08/10/2016 08:15	00:15:00	85.1	36.9	65.2	78.7	65.6	47.5	40.6
08/10/2016 08:30	00:15:00	85.5	37.2	65.9	79.9	64.6	44.8	40.1
08/10/2016 08:45	00:15:00	89.6	36.3	66	78.8	64.5	45.4	40
08/10/2016 09:00	00:15:00	85.6	36.8	66	79.8	66.7	50.1	40.9
08/10/2016 09:15	00:15:00	83.6	35.7	67.7	79.8	71.9	53.5	40
08/10/2016 09:30	00:15:00	87.7	38.5	69.1	80.2	74	56	44.3
08/10/2016 09:45	00:15:00	86.4	35.9	69.2	79.5	74.5	58	42.2
08/10/2016 10:00	00:15:00	83.7	39.6	68.5	79.4	73.5	57.1	45.6
08/10/2016 10:15	00:15:00	85.9	41.9	69.5	80.4	74.5	56.3	45.1
08/10/2016 10:30	00:15:00	82.8	35.5	68.1	79.6	73.2	55.6	43.5
08/10/2016 10:45	00:15:00	82.1	38.4	69.6	80	74.9	58.6	47.2
08/10/2016 11:00	00:15:00	83.6	38.3	67.9	79.2	73.3	52.2	42.2
08/10/2016 11:15	00:15:00	83.7	36.1	68.5	80.1	73.2	54	40.7
08/10/2016 11:30	00:15:00	83.5	35.6	68.3	79.7	73.4	54.2	42.2
08/10/2016 11:45	00:15:00	83	36.2	67.9	79	72.9	52.9	40.3
08/10/2016 12:15	00:15:00	92.7	33.9	68.5	79.5	72.3	52.8	39
08/10/2016 12:30	00:15:00	84.4	35.1	66.1	78.8	68.7	47	37.8
08/10/2016 12:45	00:15:00	81.3	33.8	65	77.5	68.3	50.1	38.8
08/10/2016 13:00	00:15:00	81.1	35.6	63.7	77	65.5	45.7	39.1
08/10/2016 13:15	00:15:00	82.7	34.3	64.1	76.8	66	46.3	39.5
08/10/2016 13:30	00:15:00	83.4	33.2	65.9	78.7	67.8	50	38.5
08/10/2016 13:45	00:15:00	93.5	33.6	68.4	80.3	70.9	48.9	39.4
08/10/2016 14:00	00:15:00	84	36.6	66.8	78.9	70.3	52.6	43
08/10/2016 14:15	00:15:00	88.5	34.7	67.6	79.5	71.5	52	38.6
08/10/2016 14:30	00:15:00	83.6	33.6	66.8	79.4	70.1	49.6	40.5
08/10/2016 14:45	00:15:00	84.8	35.1	66	77.9	70.2	50.9	39.2
08/10/2016 15:00	00:15:00	83.8	35.8	66.9	79.2	70.5	51.3	40.5
08/10/2016 15:15	00:15:00	83.7	33.9	66	79.5	67.9	49.6	38.5

08/10/2016 15:30	00:15:00	83.9	31.1	65.9	78.4	68.1	49.1	37.8
08/10/2016 15:45	00:15:00	92.8	34.5	68.6	79.8	69.6	51.1	38.8
08/10/2016 16:00	00:15:00	84.2	33.5	67.4	79.8	71.1	50.6	38.8
08/10/2016 16:15	00:15:00	83.9	31.1	65.7	78.4	68.5	47.4	38.3
08/10/2016 16:30	00:15:00	86.8	33.1	66.7	78.9	70.4	51.5	39.5
08/10/2016 16:45	00:15:00	83	35.8	67.5	79.8	71.7	51.7	40.5
08/10/2016 17:00	00:15:00	82.7	35.6	66.4	78.8	70.1	51	39.6
08/10/2016 17:15	00:15:00	84.9	33.8	67.1	79	70.9	50.7	38.8
08/10/2016 17:30	00:15:00	94.1	36.7	70.1	81	73.4	56.2	42.7
08/10/2016 17:45	00:15:00	82.9	35.5	66.8	79.2	69.9	50.5	40.1
08/10/2016 18:00	00:15:00	82.8	37.2	66.4	78.7	70.1	51.8	40.6
08/10/2016 18:15	00:15:00	87.1	36	66.7	78.8	69.3	48.8	39.9
08/10/2016 18:30	00:15:00	82.7	35.9	67.1	79.4	70.6	51.2	40.2
08/10/2016 18:45	00:15:00	85.6	35.2	67	79.7	70.4	49.4	38.7
08/10/2016 19:00	00:15:00	83.7	35.8	65.8	78.3	68.8	49.9	39.5
08/10/2016 19:15	00:15:00	82.9	35.5	66.6	79.4	69	48.2	39.8
08/10/2016 19:30	00:15:00	82.9	33.1	66.5	78.7	70.2	50	37.4
08/10/2016 19:45	00:15:00	84.1	36.1	65.3	78.1	67.5	47.4	39.6
08/10/2016 20:00	00:15:00	83.3	35.2	66.1	79.1	68.1	47.3	39.5
08/10/2016 20:15	00:15:00	82.3	36.3	65.8	79.3	67.4	45.7	39.9
08/10/2016 20:30	00:15:00	82.4	34.5	65.9	78.1	70.1	47.7	38.4
08/10/2016 20:45	00:15:00	82.5	35.4	65	77.7	67.1	45.1	38.8
08/10/2016 21:00	00:15:00	81.4	34.5	66.1	79	68.6	44.2	38.4
08/10/2016 21:15	00:15:00	83.4	34.7	64.7	78.3	65.2	42.9	37.9
08/10/2016 21:30	00:15:00	87.2	36.2	67.6	79.3	71.7	49	39.5
08/10/2016 21:45	00:15:00	83.8	34.5	65.9	78.6	68.9	43.2	37.4
08/10/2016 22:00	00:15:00	83	34.6	66.5	77.7	71.9	47.6	39.6
08/10/2016 22:15	00:15:00	82.5	36.6	66.2	78.5	70.1	48.4	39.7
08/10/2016 22:30	00:15:00	82.6	34.7	63.7	77.3	63.8	44.5	38.4
08/10/2016 22:45	00:15:00	80.7	31.4	61.1	75.6	59.5	39.9	36
08/10/2016 23:00	00:15:00	80	30.5	56.5	69.5	47.9	37.9	34.6
08/10/2016 23:15	00:15:00	82.6	32.7	57.3	70.3	49.9	39.3	36.1
08/10/2016 23:30	00:15:00	79.5	30.3	55.2	69.6	45.6	37.8	34.4
08/10/2016 23:45	00:15:00	84.1	31.4	61.4	75.7	56.6	39.8	35.9
09/10/2016 00:00	00:15:00	84.2	32.3	60.2	75.2	54.6	39	35.6
09/10/2016 00:15	00:15:00	79.6	32	56.3	70.7	47.2	39	36
09/10/2016 00:30	00:15:00	79.7	33.1	55.5	69.7	47.2	38.9	36.3
09/10/2016 00:45	00:15:00	84.2	32.7	59.4	72.6	45.9	38.5	36

09/10/2016 01:00	00:15:00	81.6	33.2	59.1	73.8	47.1	38.7	36.2
09/10/2016 01:15	00:15:00	84.6	33.2	57.4	64.5	45.1	40.1	37.1
09/10/2016 01:30	00:15:00	79.3	32.5	51.3	57	43.9	40.4	37
09/10/2016 01:45	00:15:00	46.5	32.3	39.7	43.9	41.8	39.3	36.8
09/10/2016 02:00	00:15:00	51.3	32.3	39.7	43.8	41.8	39.3	36.4
09/10/2016 02:15	00:15:00	47.8	31.8	39.9	45.2	42.2	39.2	36.2
09/10/2016 02:30	00:15:00	82.3	34.1	55.9	66.5	43.6	39.4	36.8
09/10/2016 02:45	00:15:00	49.4	33.6	40.1	45.1	42.4	39.4	36.6
09/10/2016 03:00	00:15:00	52.8	33.5	39	43.3	41.1	38.5	36.2
09/10/2016 03:15	00:15:00	78.9	32.6	53	63.5	44.1	39.6	36.8
09/10/2016 03:30	00:15:00	47.7	34.6	41	45.1	43.1	40.6	37.7
09/10/2016 03:45	00:15:00	79.4	33.6	56.8	70	47.6	41.6	38.6
09/10/2016 04:00	00:15:00	49.8	32.3	39.3	45.6	42.1	38.2	35.1
09/10/2016 04:15	00:15:00	46.9	28.8	38.6	44	41.2	37.9	34.4
09/10/2016 04:30	00:15:00	80.1	36	53.1	61	42.8	40.3	38
09/10/2016 04:45	00:15:00	83.8	33.4	55.1	58.1	42	38.9	36.3
09/10/2016 05:00	00:15:00	77	31.6	49.1	55	40.6	37	34.3
09/10/2016 05:15	00:15:00	44.3	30.6	36.7	41.9	39	36	33.5
09/10/2016 05:30	00:15:00	80.5	32.4	55.2	66.8	41.8	37.9	35.3
09/10/2016 05:45	00:15:00	77.5	32.4	52.9	64.4	46.9	41.2	38
09/10/2016 06:00	00:15:00	88.8	31.1	61.2	73.6	51.7	38.2	34.4
09/10/2016 06:15	00:15:00	78.4	33.7	53.6	63.4	44.6	40.4	37.3
09/10/2016 06:30	00:15:00	74.7	35	48.7	54.7	44.5	41.5	38.3
09/10/2016 06:45	00:15:00	82	35.1	57.8	71.1	49.8	42.8	39.5
09/10/2016 07:00	00:15:00	81	38.4	58.7	73.3	50	42.9	40.5
09/10/2016 07:15	00:15:00	80.4	38.4	57.7	71.7	49.6	44.1	42
09/10/2016 07:30	00:15:00	78.2	37.2	57.8	72.8	53.9	43.4	40.7
09/10/2016 07:45	00:15:00	81.7	39.3	60.6	75.8	52.8	44.5	41.9
09/10/2016 08:00	00:15:00	84	37.4	62.7	77.4	59.3	43.6	40.3
09/10/2016 08:15	00:15:00	83.1	38	63.4	78.2	59	44.4	40.6
09/10/2016 08:30	00:15:00	85.8	36.9	64	77.7	62.2	44.5	40.2
09/10/2016 08:45	00:15:00	83.3	36.2	61.2	76.6	55.5	42.9	39.6
09/10/2016 09:00	00:15:00	85.4	37.6	63.3	77.7	62.1	45.4	41.3
09/10/2016 09:15	00:15:00	86	38.1	66.2	79	68.6	49.5	41.8
09/10/2016 09:30	00:15:00	83.7	38	66.3	78.9	69.3	49.8	40.9
09/10/2016 09:45	00:15:00	81.5	40.9	67	78.6	72	51.7	44
09/10/2016 10:00	00:15:00	86	39	68.7	79.6	73.7	56.9	43.7
09/10/2016 10:15	00:15:00	87.1	38.5	69.4	79.6	74.6	57.4	42.7

09/10/2016 10:30	00:15:00	86.4	39.1	69.2	79.7	74.3	55	43.9
09/10/2016 10:45	00:15:00	84.4	38.2	68.3	79.6	73.1	54.7	42.6
09/10/2016 11:00	00:15:00	87.6	41.5	69.3	80.2	74	57.2	46.6
09/10/2016 11:15	00:15:00	84.7	38	68.6	79	73.8	55.9	43.1
09/10/2016 11:30	00:15:00	85.1	39.6	68.7	79.7	73.7	56	44.6
09/10/2016 11:45	00:15:00	86	35.6	68.8	79.6	73.9	55	40.7
09/10/2016 12:15	00:15:00	84.9	36.5	67.6	78.7	73.1	53.2	44.7
09/10/2016 12:30	00:15:00	92.4	36	67.1	78.8	71.2	52.2	44.2
09/10/2016 12:45	00:15:00	106.7	37.8	75.5	80.7	74	54.7	43
09/10/2016 13:00	00:15:00	85.9	36.4	68	79.7	72.7	52	41
09/10/2016 13:15	00:15:00	98.4	34.8	72.3	81.4	74.2	51.3	39.9
09/10/2016 13:30	00:15:00	85.5	33.7	66.8	79.5	69.9	50.6	40.3
09/10/2016 13:45	00:15:00	97.3	37.5	71.6	81.6	73.3	54.4	44
09/10/2016 14:00	00:15:00	87.7	33.8	67.7	78.8	71.8	53	39.6
09/10/2016 14:15	00:15:00	97.7	33.9	69.6	79	71.3	49.9	39.7
09/10/2016 14:30	00:15:00	93.8	36.1	70.2	80.7	73.8	55.7	41
09/10/2016 14:45	00:15:00	89.6	33.1	67	78.3	70.4	50.6	38.5
09/10/2016 15:00	00:15:00	82.4	34.8	66.6	78.6	71.4	48.6	38.6
09/10/2016 15:15	00:15:00	83.9	33.9	67.6	79	72.5	53.8	40.6
09/10/2016 15:30	00:15:00	86.6	36.1	68.6	79.8	73.1	54.4	40.8
09/10/2016 15:45	00:15:00	98.6	36.3	72.3	81	72.1	50.9	41.6
09/10/2016 16:00	00:15:00	85.5	34.2	67.6	79.1	72.2	54	41.9
09/10/2016 16:15	00:15:00	84.8	35	68.8	80.4	73.3	57	44.4
09/10/2016 16:30	00:15:00	99.8	37.1	72.3	81.4	74.1	56.1	42.1
09/10/2016 16:45	00:15:00	88.5	35.8	67.9	79.6	71.9	53.9	41.8
09/10/2016 17:00	00:15:00	82.9	36.1	68.6	79.9	73.7	55.1	44.5
09/10/2016 17:15	00:15:00	92.8	35.5	69.1	80.3	72.8	53.8	40.7
09/10/2016 17:30	00:15:00	85.6	34.2	67.6	79.8	71.3	50.8	40.7
09/10/2016 17:45	00:15:00	84.5	36.2	68.2	80	72.6	53.1	41.9
09/10/2016 18:00	00:15:00	97.2	34	69.2	79.8	70.9	51.8	39.9
09/10/2016 18:15	00:15:00	86	34.6	67	79.7	68.9	48.8	37.8
09/10/2016 18:30	00:15:00	82.9	35	68	79.8	72.3	52.1	40.7
09/10/2016 18:45	00:15:00	95.1	36.1	69.5	81	72.4	51	40.8
09/10/2016 19:00	00:15:00	82.8	37.1	66.7	78.9	70.4	49.8	41.1
09/10/2016 19:15	00:15:00	81.3	33.8	64.2	77.7	65.4	42.1	37.5
09/10/2016 19:30	00:15:00	83.2	32.7	65.4	78.7	66.3	44.3	37.3
09/10/2016 19:45	00:15:00	83.1	33.1	64.9	77.9	66.7	47.3	38
09/10/2016 20:00	00:15:00	84.9	35.5	65.8	78.7	67.1	45.1	38.7

09/10/2016 20:15	00:15:00	83.8	34	66.7	78.8	70.2	48.7	39.2
09/10/2016 20:30	00:15:00	82.6	32.9	65.9	78.5	68.8	47.9	38.6
09/10/2016 20:45	00:15:00	84.8	36.7	64.4	78.1	62.2	44	39.6
09/10/2016 21:00	00:15:00	88.1	36.6	65.7	78.8	66.2	46.6	40.1
09/10/2016 21:15	00:15:00	82.3	36.1	65	78.1	66.9	44.5	39.6
09/10/2016 21:30	00:15:00	86.5	36.3	66.6	80.2	65.6	44.7	39.5
09/10/2016 21:45	00:15:00	83.4	34.4	66.1	79.8	65.1	42.8	37.5
09/10/2016 22:00	00:15:00	84.1	34	62.7	77.5	56	40.5	37.3
09/10/2016 22:15	00:15:00	83.5	34.3	60.5	75.1	49.8	39.2	37
09/10/2016 22:30	00:15:00	83.5	32	59.7	74.3	51.6	39	35.5
09/10/2016 22:45	00:15:00	89.5	33.6	62	76.1	55.2	39.9	36.9
09/10/2016 23:00	00:15:00	92.4	32.5	62.6	71.2	44.4	39.4	36.2
09/10/2016 23:15	00:15:00	83.8	32.7	55.3	64	44.9	38.8	35.9
09/10/2016 23:30	00:15:00	76.8	33.8	52.1	62.7	43.5	40.3	37.6
09/10/2016 23:45	00:15:00	44.4	33.7	39.4	43.4	41.4	39	36.5
10/10/2016 00:00	00:15:00	84.2	34.3	58.1	70.7	44.7	39.7	37.2
10/10/2016 00:15	00:15:00	47.1	33.4	39.3	44.8	41.7	38.4	36.2
10/10/2016 00:30	00:15:00	82.5	33.5	56.3	67.7	44.6	38.9	36.3
10/10/2016 00:45	00:15:00	83	35.8	56	65.1	46.2	42.7	40
10/10/2016 01:00	00:15:00	79	36.3	50.7	53.6	45.5	42.4	39.6
10/10/2016 01:15	00:15:00	82.3	31.9	54.1	58.2	42.2	38.7	35.7
10/10/2016 01:30	00:15:00	48.8	31.5	39	44.2	41.2	38.3	35.5
10/10/2016 01:45	00:15:00	52.3	34.6	40.4	44.3	42.3	40.1	37.6
10/10/2016 02:00	00:15:00	84.2	36.8	55.4	59.7	43	40.8	38.9
10/10/2016 02:15	00:15:00	45.2	34.9	39.9	43.5	41.6	39.7	37.4
10/10/2016 02:30	00:15:00	83.7	33.4	55.3	61	43.7	39.3	36.1
10/10/2016 02:45	00:15:00	53.4	33.4	39.4	45.2	41.8	38.5	35.8
10/10/2016 03:00	00:15:00	45.1	30.2	36.4	41.1	38.6	35.9	33.3
10/10/2016 03:15	00:15:00	81.9	30.3	56.2	67.4	40.4	35.9	33.6
10/10/2016 03:30	00:15:00	82.8	31.8	54.5	60.4	44.2	38.7	35.7
10/10/2016 03:45	00:15:00	79.2	31.3	53.2	64.2	41.9	38.2	35.2
10/10/2016 04:00	00:15:00	74.9	31.8	49.1	56.7	44.7	37.5	34.2
10/10/2016 04:15	00:15:00	80.2	32.1	57.6	72.1	48.1	38.9	35.6
10/10/2016 04:30	00:15:00	54	33.4	40.2	46.7	42.4	38.9	36.6
10/10/2016 04:45	00:15:00	85.1	33.8	61.7	76.1	53.1	40.2	37.1
10/10/2016 05:00	00:15:00	84	30.9	57.6	69.1	47.4	38.2	34.8
10/10/2016 05:15	00:15:00	82.6	36.2	54.2	61.6	44.5	41.9	39.3
10/10/2016 05:30	00:15:00	79.9	39.2	57.2	71.3	50.9	43.2	41.2

10/10/2016 05:45	00:15:00	81.7	45.2	59.6	73.5	52.7	48.4	46.4
10/10/2016 06:00	00:15:00	83.9	39.7	61.9	75.7	59.7	45.3	42
10/10/2016 06:15	00:15:00	85.3	40.4	63.6	77.7	60.2	44.7	42.2
10/10/2016 06:30	00:15:00	84.2	36.9	63	78.1	56.7	43.1	40.4
10/10/2016 06:45	00:15:00	84.5	38.3	65.3	79.7	64.1	45.6	40.6
10/10/2016 07:00	00:15:00	83.8	37.6	63.7	78.1	61.2	44.7	40.7
10/10/2016 07:15	00:15:00	85.6	40.5	67.4	80.6	68.6	47.8	44
10/10/2016 07:30	00:15:00	84.7	43.2	66.1	79.9	65.6	48.1	44.6
10/10/2016 07:45	00:15:00	87.7	43.9	69.8	81.9	73.6	54	47.3
10/10/2016 08:00	00:15:00	83.1	47.1	67.9	80	71.3	55.6	50.7
10/10/2016 08:15	00:15:00	85.4	48.3	67.6	80.2	69.7	56.3	51.3
10/10/2016 08:30	00:15:00	84.6	47.4	67.7	80.3	70.8	56.2	50.2
10/10/2016 08:45	00:15:00	83.7	47.9	65.7	79.1	66.3	55	51
10/10/2016 09:00	00:15:00	83.3	48.2	67.5	79.7	70.7	55.7	51.2
10/10/2016 09:15	00:15:00	83.7	47.8	67.6	79.7	70.8	57	52.4
10/10/2016 09:30	00:15:00	84.5	44.7	66.7	79.8	68.2	55	50.3
10/10/2016 09:45	00:15:00	88.9	45	67.7	79.9	70.3	52.8	47.5
10/10/2016 10:00	00:15:00	82.5	41.9	66.9	78.6	71.2	53.4	45.8
10/10/2016 10:15	00:15:00	85.3	41.7	65.8	79.2	66.2	49.9	44.8
10/10/2016 10:30	00:15:00	84.7	41.3	67.4	78.9	72.1	52.3	45.4
10/10/2016 10:45	00:15:00	86.4	42.4	67.8	79.7	71.8	54.7	46.2
10/10/2016 11:00	00:15:00	81.1	41.1	65.8	78	69.5	50.2	44.6
10/10/2016 11:15	00:15:00	83.7	41.1	64.9	79.3	64.6	47.5	43.6
10/10/2016 11:30	00:15:00	90.5	40.1	65.5	77.9	68.1	49.4	44.1
10/10/2016 11:45	00:15:00	80.4	41	62.8	76.5	63.1	48.3	44
10/10/2016 12:15	00:15:00	84.7	41.2	66.2	79.2	67.5	49	44
10/10/2016 12:30	00:15:00	82.9	39.3	64.2	78	62.1	47	42.6
10/10/2016 12:45	00:15:00	81.6	41.4	64.7	78.1	66.3	49.1	45.5
10/10/2016 13:00	00:15:00	84.1	38.9	65.8	79.1	67.2	48.2	43.6
10/10/2016 13:15	00:15:00	85.2	38.7	65.4	78.6	66.9	48.3	42.4
10/10/2016 13:30	00:15:00	90.2	38.2	65.8	78	68.6	48.1	41.6
10/10/2016 13:45	00:15:00	82.7	40.7	64.9	77.6	66.6	49.1	44.4
10/10/2016 14:00	00:15:00	84.3	40.4	65.8	79.2	67	50.2	44.3
10/10/2016 14:15	00:15:00	86.4	41.2	65.6	79.2	66.8	49.6	44.7
10/10/2016 14:30	00:15:00	91.4	38.3	67	79	69.9	50.8	43.6
10/10/2016 14:45	00:15:00	84.9	39	65.4	79.1	66.2	49.1	43.4
10/10/2016 15:00	00:15:00	83.9	39.5	66.5	79.2	69.3	52.3	44.2
10/10/2016 15:15	00:15:00	83.9	39.6	67.9	79.9	72.2	54.8	45.8

10/10/2016 15:30	00:15:00	84.4	41.5	66.5	78.8	69.9	53.8	48.4
10/10/2016 15:45	00:15:00	80.8	44	66.4	78.8	69.2	55	50.3
10/10/2016 16:00	00:15:00	93	44.6	67.5	78.5	71.4	55.9	49.4
10/10/2016 16:15	00:15:00	87.7	44.5	67.9	79.7	71.8	54.9	49.1
10/10/2016 16:30	00:15:00	82.9	42.1	68.2	79.8	72.8	54.8	47.4
10/10/2016 16:45	00:15:00	87.3	39.3	69.4	80.8	74.2	55	45.3
10/10/2016 17:00	00:15:00	85.6	38.9	68.9	80.5	73.5	54	42.3
10/10/2016 17:15	00:15:00	89	37.4	68.3	80.1	71.7	51.3	42.3
10/10/2016 17:30	00:15:00	87.3	40.3	69.7	80.7	74.9	55.1	44.9
10/10/2016 17:45	00:15:00	87.4	39.2	68.8	80.2	73.3	52.9	42.5
10/10/2016 18:00	00:15:00	82.8	36.8	66.7	78.9	70.4	49.9	40.4
10/10/2016 18:15	00:15:00	82.4	37.8	66.2	78.9	69	50.1	41.5
10/10/2016 18:30	00:15:00	83.2	37.9	65.8	79.1	67.1	46.3	40.7
10/10/2016 18:45	00:15:00	84.3	36.4	64.5	77.9	64.2	47.3	40.3
10/10/2016 19:00	00:15:00	82.6	35.3	62.3	76.7	59.8	43.6	39.3
10/10/2016 19:15	00:15:00	81.7	34.1	61	75.7	57.8	41.8	38.6
10/10/2016 19:30	00:15:00	86	36.4	65.1	79.4	62.6	43.9	39.2
10/10/2016 19:45	00:15:00	85.5	36.5	62.9	77.3	57.1	43.8	40.1
10/10/2016 20:00	00:15:00	87.5	35.1	62.8	76.9	57.6	41.9	38.6
10/10/2016 20:15	00:15:00	81.3	35.5	56.6	69.1	46	41.4	38.6
10/10/2016 20:30	00:15:00	81.1	37.1	60.3	75.2	54.7	43.4	39.9
10/10/2016 20:45	00:15:00	84.2	35.4	60.4	74.2	54.8	43.9	40.5
10/10/2016 21:00	00:15:00	81.8	36.8	61.9	77.2	58.4	43.5	40.1
10/10/2016 21:15	00:15:00	81.5	34.4	59.6	74.8	52.4	40.9	37.7
10/10/2016 21:30	00:15:00	83.5	35	59.6	72.1	50.5	41.1	38.1
10/10/2016 21:45	00:15:00	79.6	35.4	55.6	68.5	49.3	41.6	37.8
10/10/2016 22:00	00:15:00	84	34.6	60.3	76.1	48.7	40.6	37.5
10/10/2016 22:15	00:15:00	81.8	33.3	58	70.8	47.3	39.9	36.7
10/10/2016 22:30	00:15:00	85.2	33.4	59.6	72.8	48.3	40.6	37.3
10/10/2016 22:45	00:15:00	84	35.4	59.2	71.7	49.1	41.9	39
10/10/2016 23:00	00:15:00	76.7	34	49.3	54.6	43.2	40.5	37.7
10/10/2016 23:15	00:15:00	48.8	33.4	39.7	45.5	42.2	38.7	36
10/10/2016 23:30	00:15:00	83	33.8	56.9	68.5	49.2	40.7	37.2
10/10/2016 23:45	00:15:00	83.9	33.4	60.2	73.7	48.5	39.5	36.7
11/10/2016 00:00	00:15:00	83.2	33.5	58	71.7	47.9	39.7	37
11/10/2016 00:15	00:15:00	85.8	32.6	62.2	75.1	55.7	39.6	36.1
11/10/2016 00:30	00:15:00	80.7	33.4	56.3	69.5	43.6	38.8	36.2
11/10/2016 00:45	00:15:00	87.5	33.7	61.5	73.2	47.8	38.7	36.1

11/10/2016 01:00	00:15:00	84.3	32.3	55.4	60.8	44.2	39.5	36.4
11/10/2016 01:15	00:15:00	84.1	33.8	59.2	71.8	50.3	39.3	36.3
11/10/2016 01:30	00:15:00	82.4	34.2	56.9	65.6	44.6	39.4	36.9
11/10/2016 01:45	00:15:00	80.8	33.6	53.6	62.5	44	39.3	36.5
11/10/2016 02:00	00:15:00	57.5	34.8	41.2	47.2	42.9	40.1	37.3
11/10/2016 02:15	00:15:00	83.1	33.3	55.2	59.8	43.7	39.2	36.6
11/10/2016 02:30	00:15:00	80.3	33.6	52.4	59.8	42	38.8	36.5
11/10/2016 02:45	00:15:00	45.6	31.4	38.3	42.7	40.5	37.8	35.4
11/10/2016 03:00	00:15:00	79	32.6	51.5	57.5	41.8	38.2	35.4
11/10/2016 03:15	00:15:00	78.7	33.6	51.7	59.8	43.1	39.5	36.6
11/10/2016 03:30	00:15:00	83.6	34.1	58.8	68.8	44.8	40.3	37.4
11/10/2016 03:45	00:15:00	82.9	32.3	58.6	70.4	45.2	39.2	36.6
11/10/2016 04:00	00:15:00	77.9	31.5	52.2	64.1	44.4	40.6	37
11/10/2016 04:15	00:15:00	84.6	32.2	59.5	72.1	46.8	38.8	35.6
11/10/2016 04:30	00:15:00	84.2	33.4	57.8	67.5	43.9	39.1	36.4
11/10/2016 04:45	00:15:00	84.7	32.7	59.8	73.8	49.1	39.7	37
11/10/2016 05:00	00:15:00	80.6	33.8	53.3	60.9	47.1	40.6	37.4
11/10/2016 05:15	00:15:00	83.1	34.7	60.3	74.3	53.9	40.3	37.3
11/10/2016 05:30	00:15:00	83.1	33.8	61.7	76.7	56.8	41.9	38.2
11/10/2016 05:45	00:15:00	83.7	34.6	63.2	78.3	59.4	42	37.7
11/10/2016 06:00	00:15:00	84	34.4	64.1	79.1	59.5	42.7	38.1
11/10/2016 06:15	00:15:00	83.4	35.1	63.6	78	60.7	41.9	38.5
11/10/2016 06:30	00:15:00	82.6	35	62	77.1	55.9	42.2	38.8
11/10/2016 06:45	00:15:00	84.5	36.5	64.4	78.7	62.6	42.3	39
11/10/2016 07:00	00:15:00	84.6	38.3	65.1	79.4	62.9	46.5	41.6
11/10/2016 07:15	00:15:00	84.6	40.6	67.1	79.8	69.5	51.5	43.3
11/10/2016 07:30	00:15:00	96.4	39.5	68.3	80.1	68.1	48.9	42.6
11/10/2016 07:45	00:15:00	87.9	40.5	69.7	81.5	74	55.1	46.3
11/10/2016 08:00	00:15:00	95.8	40.9	69.8	81.5	72.2	53.7	45.1
11/10/2016 08:15	00:15:00	84.8	39.8	66.6	79.8	68.3	49.5	43.3
11/10/2016 08:30	00:15:00	83.5	43.2	67.4	80	69.9	55.2	47.5
11/10/2016 08:45	00:15:00	84.9	44.8	68.4	81.2	70.4	58.9	52.8
11/10/2016 09:00	00:15:00	84.3	46	67.1	79.6	68.8	59.8	54
11/10/2016 09:15	00:15:00	86.3	47.8	67.5	80.1	69.3	58.7	54.1
11/10/2016 09:30	00:15:00	84.5	47.4	67.8	80.5	70.1	59.5	53.7
11/10/2016 09:45	00:15:00	82.9	46.4	66.5	79.6	68	57.3	52.1
11/10/2016 10:00	00:15:00	82.7	43.9	65.1	78.5	65.6	55.4	49.8
11/10/2016 10:15	00:15:00	85.4	45.5	66.5	79.6	67.5	56.7	52

11/10/2016 10:30	00:15:00	82.9	36.2	65.6	78.4	67.5	53.8	41.2
11/10/2016 10:45	00:15:00	86.5	37.8	67.2	80.2	68.4	49.4	40.4
11/10/2016 11:00	00:15:00	83.8	38.1	66.2	79.8	66.8	53.4	43.3
11/10/2016 11:15	00:15:00	84.6	42.4	67.2	80	69.3	56.8	51.2
11/10/2016 11:30	00:15:00	83.7	47	66.4	79.4	67.5	57.3	52.2
11/10/2016 11:45	00:15:00	83	44.6	65.4	78	66.9	56.6	51
11/10/2016 12:15	00:15:00	82.1	42.2	65.2	78	66.8	55.5	49.5
11/10/2016 12:30	00:15:00	82.5	43	63.7	77.5	63.2	54.1	48.2
11/10/2016 12:45	00:15:00	84	46.2	67	79.4	69.9	56	50.8
11/10/2016 13:00	00:15:00	85.4	42.7	67.7	80.8	70.3	55.6	50.2
11/10/2016 13:15	00:15:00	84.5	42.2	66.5	79.6	67.4	56.6	50.1
11/10/2016 13:30	00:15:00	84.2	43.2	66.9	80	69.1	56.1	50
11/10/2016 13:45	00:15:00	85.8	42.4	65.4	79	63.8	53.3	48.1
11/10/2016 14:00	00:15:00	83	35.2	65	78.5	65.4	48.7	38.4
11/10/2016 14:15	00:15:00	87.6	35.9	67.6	80.4	69.9	50	41.1
11/10/2016 14:30	00:15:00	84.5	39.6	66.1	79.5	67.7	48.8	42.2
11/10/2016 14:45	00:15:00	86.8	37.1	68.4	81.3	71	53.1	41.4
11/10/2016 15:00	00:15:00	84.8	35.2	66.8	79.9	67.9	52.3	40.4
11/10/2016 15:15	00:15:00	83.8	35	67.5	80.5	69.1	45.6	38
11/10/2016 15:30	00:15:00	85.9	36.9	68.2	81.3	70.5	50.1	40.7
11/10/2016 15:45	00:15:00	83.4	36.4	66.5	79.6	68.5	49.7	41.3
11/10/2016 16:00	00:15:00	86.6	38.4	68.3	80.5	72.1	53.4	42.1
11/10/2016 16:15	00:15:00	86.4	36.8	67.4	81.1	68.8	48.5	39.3
11/10/2016 16:30	00:15:00	85.3	38.4	67.9	80.5	71	53.9	42.8
11/10/2016 16:45	00:15:00	95.2	37.7	67	78.5	70.2	51.9	44
11/10/2016 17:00	00:15:00	93.5	37.2	67.6	80.2	70	49.5	40.6
11/10/2016 17:15	00:15:00	84	36.7	65.9	78.7	68.6	48.7	40.3
11/10/2016 17:30	00:15:00	86.8	42.2	69.4	81.4	73.2	55.1	45.9
11/10/2016 17:45	00:15:00	84.4	39.4	66.5	79.6	68.1	50	42.6
11/10/2016 18:00	00:15:00	83.9	37.8	67	79.8	69.5	51.1	42.1
11/10/2016 18:15	00:15:00	85.5	36.9	65.2	79.1	63.5	45.9	40
11/10/2016 18:30	00:15:00	86.5	37.3	66.4	80.3	66	46.1	40.5
11/10/2016 18:45	00:15:00	86.8	35.9	67.8	80.5	69.5	47.9	40
11/10/2016 19:00	00:15:00	84.3	35.3	63.4	77.4	60.7	43.3	38.8
11/10/2016 19:15	00:15:00	82.7	35.7	62.9	77.1	61.6	42.8	38.4
11/10/2016 19:30	00:15:00	83.5	34.7	63.6	77.7	62.4	43.8	38.8
11/10/2016 19:45	00:15:00	83.2	35.6	62.9	78	59.5	43.5	38.3
11/10/2016 20:00	00:15:00	84.7	34.3	63.1	77.7	60.2	43.3	37.8

11/10/2016 20:15	00:15:00	84.7	37	63	77.4	57.8	43	39.6
11/10/2016 20:30	00:15:00	85	35.3	64.4	78.3	63.6	44.6	38.8
11/10/2016 20:45	00:15:00	82.8	35	59.5	74.4	53.7	43.9	38.6
11/10/2016 21:00	00:15:00	85.3	34.1	63.6	78.7	57.9	42.7	37.7
11/10/2016 21:15	00:15:00	78.6	34.6	54.6	66.6	48	40.8	37.2
11/10/2016 21:30	00:15:00	80.6	34.2	58.6	73.7	52.1	39.8	36.6
11/10/2016 21:45	00:15:00	78.9	34.5	55.2	68.8	46.7	39.8	36.9
11/10/2016 22:00	00:15:00	84.4	34.4	59.6	73.6	49.3	39.7	36.4
11/10/2016 22:15	00:15:00	77.8	35	54.4	68.2	48.2	40.3	37.4
11/10/2016 22:30	00:15:00	83.5	36.2	63	78.2	55.8	44.3	39.7
11/10/2016 22:45	00:15:00	81.4	35.4	61.2	76.1	56.1	42.7	38.8
11/10/2016 23:00	00:15:00	87.7	34.7	62	75.8	54.7	42.1	37.8
11/10/2016 23:15	00:15:00	79.5	34.8	57.8	72.7	50.3	40.7	37.3
11/10/2016 23:30	00:15:00	82.9	34.5	57.8	71.5	47.7	40.6	37.9
11/10/2016 23:45	00:15:00	85.1	32.7	59.8	70.4	45.9	38.6	35.7
12/10/2016 00:00	00:15:00	76.3	31.8	49.9	57.8	42.4	37	34.3
12/10/2016 00:15	00:15:00	77.1	30.1	50.6	57.2	39.6	36	33.5
12/10/2016 00:30	00:15:00	49	30.5	37.7	44.2	40.5	36.5	33.3
12/10/2016 00:45	00:15:00	78.5	30.6	50.9	57.5	40.6	37	34.1
12/10/2016 01:00	00:15:00	54	29.8	37.3	44.5	39.8	35.9	32.7
12/10/2016 01:15	00:15:00	44.5	28.8	35.7	41.6	38.2	34.8	32.2
12/10/2016 01:30	00:15:00	49.9	29.5	36.9	44.4	39.6	35.4	32
12/10/2016 01:45	00:15:00	47	29.8	37.9	44.5	40.9	36.4	33.2
12/10/2016 02:00	00:15:00	78.2	32.5	50.9	54.9	43.4	38.3	35.4
12/10/2016 02:15	00:15:00	50.2	31.4	38.5	45	41.1	37.1	34.5
12/10/2016 02:30	00:15:00	53.9	31.4	39.4	47	42.2	37.7	34.5
12/10/2016 02:45	00:15:00	48.3	32	38.3	44.7	40.7	37.2	34.9
12/10/2016 03:00	00:15:00	76	32.5	50.5	56.7	43.2	38.5	35.4
12/10/2016 03:15	00:15:00	54	31.3	39.6	47.8	42.1	37.9	34.5
12/10/2016 03:30	00:15:00	80.6	33	52.8	58.7	44.7	39.1	36.3
12/10/2016 03:45	00:15:00	79.8	33.7	53.5	58.4	46.8	41.3	37.4
12/10/2016 04:00	00:15:00	57.7	34.1	42.3	51.3	44.5	40.2	37.4
12/10/2016 04:15	00:15:00	86.8	37.9	63.2	77.3	51.9	44.2	40.4
12/10/2016 04:30	00:15:00	77.3	37	52.1	60.1	46.8	42.3	39.7
12/10/2016 04:45	00:15:00	81.4	35.7	55.1	64.4	47.2	41.8	39.2
12/10/2016 05:00	00:15:00	79.6	36.6	53.5	58.1	45.6	42.2	39.3
12/10/2016 05:15	00:15:00	85.2	38.4	62.9	77.5	56.6	43.5	40.9
12/10/2016 05:30	00:15:00	79.7	37	53.1	57.6	45.8	41.4	39

12/10/2016 05:45	00:15:00	82.6	37.7	58.7	72.7	51.1	43.5	40.1
12/10/2016 06:00	00:15:00	84.1	35.8	62	77	57.5	41.9	38.3
12/10/2016 06:15	00:15:00	83.4	36.7	61.7	76	57.4	43.1	39.8
12/10/2016 06:30	00:15:00	85.7	39.8	65	79.9	60.9	44.8	41.8
12/10/2016 06:45	00:15:00	85.6	41.1	65.8	79.3	64.8	50.1	43.5
12/10/2016 07:00	00:15:00	85.1	42.4	67.4	80.5	68.5	54	49.9
12/10/2016 07:15	00:15:00	85.7	38.7	67.1	81.1	67.1	49.3	41.8
12/10/2016 07:30	00:15:00	86	41.2	68.7	80.8	72.5	52	45.5
12/10/2016 07:45	00:15:00	84.7	42	69.1	81.5	72.4	54.1	46.6
12/10/2016 08:00	00:15:00	84.4	43.2	69.6	81.7	73.8	53.9	47.5
12/10/2016 08:15	00:15:00	86.6	43.4	68.6	81.2	71.9	52.5	46.4
12/10/2016 08:30	00:15:00	87	43.1	67.3	80.5	68	50.5	46.2
12/10/2016 08:45	00:15:00	86.6	44.6	68.2	80.7	70.4	53.5	48.1
12/10/2016 09:00	00:15:00	85.7	43.3	67.2	80	69.2	51.9	46.6
12/10/2016 09:15	00:15:00	85.6	45	68.6	81.5	71.3	55.1	49.1
12/10/2016 09:30	00:15:00	85.7	41.9	67.6	80.1	69.7	53.6	45.8
12/10/2016 09:45	00:15:00	84.3	42.6	66.8	79.9	69	51.5	46.2
12/10/2016 10:00	00:15:00	86.5	43.5	65.2	77.9	65.4	51.4	46.5
12/10/2016 10:15	00:15:00	82.9	42.5	65.9	78.7	68.2	56.4	50.2
12/10/2016 10:30	00:15:00	83.6	43.8	65	78.9	64.5	54.1	47.2
12/10/2016 10:45	00:15:00	82.9	40.6	64.9	79	63.6	48.4	44.4
12/10/2016 11:00	00:15:00	89.5	41.2	66.2	78.5	68.2	52.2	44.8
12/10/2016 11:15	00:15:00	86.5	48	67.5	80	70	57.1	52
12/10/2016 11:30	00:15:00	85.7	45.9	67.3	80.2	68.9	56.2	50.7
12/10/2016 11:45	00:15:00	83.9	44.9	65.9	79.2	67	55.9	50.8
12/10/2016 12:15	00:15:00	84.5	47.1	65.4	78.5	65.9	56.2	51.5
12/10/2016 12:30	00:15:00	83.5	47.8	63.7	77	63.4	55.3	51.3
12/10/2016 12:45	00:15:00	83.7	44.7	66	79	66.4	55.6	50.7
12/10/2016 13:00	00:15:00	81.7	46.5	64.7	77.8	65.8	55.3	50.7
12/10/2016 13:15	00:15:00	85.2	46.6	67	80.3	67.4	56.5	51.5
12/10/2016 13:30	00:15:00	84.3	45.6	66.1	79	67.3	55.5	49.8
12/10/2016 13:45	00:15:00	82.3	42	66	78.6	68.9	53.9	48
12/10/2016 14:00	00:15:00	87.1	39.8	65.9	78.7	66.4	53.2	43.6
12/10/2016 14:15	00:15:00	80.5	41	62.8	76.3	61.7	51.9	45.4
12/10/2016 14:30	00:15:00	86.3	43.1	64.8	78.3	65	50.6	46
12/10/2016 14:45	00:15:00	83	43.1	64.3	77.3	65	55.8	46.7
12/10/2016 15:00	00:15:00	84.8	48.2	66.9	79.8	68.6	57.2	51.7
12/10/2016 15:15	00:15:00	87.2	48.6	66.2	79	65.5	56.6	52.1

12/10/2016 15:30	00:15:00	84.3	46.4	65.8	78.6	66.8	57.4	52.3
12/10/2016 15:45	00:15:00	83	46.1	65.8	79.2	65.6	57	51.4
12/10/2016 16:00	00:15:00	83.3	44.8	67.4	79.9	70.1	56.8	50.5
12/10/2016 16:15	00:15:00	81.5	46	66.5	78.8	69.1	57.7	52.2
12/10/2016 16:30	00:15:00	85.8	47.3	68.1	80.5	70.8	59.3	53.5
12/10/2016 16:45	00:15:00	84.9	42.8	65.9	78.8	65.8	56.9	45.9
12/10/2016 17:00	00:15:00	86.5	40.7	67.7	80	70.4	51.3	43.8
12/10/2016 17:15	00:15:00	84.8	37.7	68.2	80.3	71.5	53	41.6
12/10/2016 17:30	00:15:00	85.7	38.6	68.4	80.9	72.5	51.7	43.4
12/10/2016 17:45	00:15:00	84.4	39.1	68.2	80.7	71.5	51.9	41.8
12/10/2016 18:00	00:15:00	84.3	37.6	68	80.3	71.7	52.7	40.3
12/10/2016 18:15	00:15:00	89.4	36	67.8	80.2	68.7	47	39
12/10/2016 18:30	00:15:00	84.1	36.8	65.2	79.7	65	44.4	39.2
12/10/2016 18:45	00:15:00	85.9	36.2	67.6	80.9	69.6	49.6	39.8
12/10/2016 19:00	00:15:00	89.7	36.4	66.9	80.7	65.7	45.9	40.2
12/10/2016 19:15	00:15:00	84.1	35.4	63	77	61.1	42.7	38.6
12/10/2016 19:30	00:15:00	84	37.9	64.4	78.3	63.3	43.9	39.9
12/10/2016 19:45	00:15:00	84.3	37.6	64.1	78.1	61.2	45.9	40.9
12/10/2016 20:00	00:15:00	84.1	37.3	61.7	76.7	57.3	44.2	40.6
12/10/2016 20:15	00:15:00	85.3	37.5	61.4	75.7	55.3	43.5	40
12/10/2016 20:30	00:15:00	84.2	37.6	60.4	74.8	53	43.1	40.1
12/10/2016 20:45	00:15:00	79.9	36.6	57.4	71.5	51.3	43.3	40
12/10/2016 21:00	00:15:00	80	37.2	58.1	71.8	50.9	43	40.1
12/10/2016 21:15	00:15:00	84.1	38.6	61.1	76	55.7	45.6	41.1
12/10/2016 21:30	00:15:00	84.3	37.5	60.8	75.2	56.3	45	40.4
12/10/2016 21:45	00:15:00	82.7	37	60.4	74.5	52.6	42.9	39.8
12/10/2016 22:00	00:15:00	89.4	33.8	61.1	72.1	48.5	40.3	37.2
12/10/2016 22:15	00:15:00	87.3	34.3	62.7	76.8	56	40.4	36.8
12/10/2016 22:30	00:15:00	87.2	34.3	64.2	78.7	55.9	40.3	36.8
12/10/2016 22:45	00:15:00	76.6	33.4	49.5	57.5	43.9	39.7	36.2
12/10/2016 23:00	00:15:00	82.7	32.8	59.8	74.2	53.4	39.3	36
12/10/2016 23:15	00:15:00	79.8	30	53.2	62.2	41.5	36.2	33.3
12/10/2016 23:30	00:15:00	89.2	30.5	63.5	75.7	49.7	36.7	33.1
12/10/2016 23:45	00:15:00	84.1	28.5	60.4	74.5	54.6	37.4	32.7
13/10/2016 00:00	00:15:00	46.1	27.9	35.9	41.7	38.5	35	32
13/10/2016 00:15	00:15:00	48.3	30.6	37.2	43.5	39.6	36.2	33.3
13/10/2016 00:30	00:15:00	84.2	29.5	57	65.7	41.6	36.6	33.9
13/10/2016 00:45	00:15:00	81.8	31.7	53.3	55.8	43.4	38.1	34.9

13/10/2016 01:00	00:15:00	78.5	31.3	50.7	55.2	41.9	36.9	34.1
13/10/2016 01:15	00:15:00	50.9	31.6	38.4	45.4	40.8	37	34.3
13/10/2016 01:30	00:15:00	79.3	30.3	55	67	41.8	36.6	33.7
13/10/2016 01:45	00:15:00	48.8	28.6	36.6	42.8	39.2	35.6	32.9
13/10/2016 02:00	00:15:00	47.9	31.1	37.7	44.3	39.9	36.7	34.2
13/10/2016 02:15	00:15:00	80.1	31.3	53.3	63.7	41	37.2	34.3
13/10/2016 02:30	00:15:00	45.8	31.2	38.2	43.7	40.8	37.3	34.4
13/10/2016 02:45	00:15:00	79	29.7	52.3	59.1	41.5	37.4	33.8
13/10/2016 03:00	00:15:00	77.9	28.5	50.7	59.9	39.6	35	31.6
13/10/2016 03:15	00:15:00	80.6	28.6	53.6	59.3	40.4	35.7	32.6
13/10/2016 03:30	00:15:00	83.5	31.9	57.3	67.3	43.8	38.2	35.1
13/10/2016 03:45	00:15:00	45.8	31.8	38.4	43.8	40.5	37.7	35.3
13/10/2016 04:00	00:15:00	55.5	31.3	38.7	43.9	40.7	37.6	34.6
13/10/2016 04:15	00:15:00	85.6	32.4	59.2	67.3	43.1	39	36
13/10/2016 04:30	00:15:00	48.7	31.5	38.4	43.5	40.8	37.7	34.9
13/10/2016 04:45	00:15:00	84.5	31.3	58.8	70.2	45.5	37.7	33.6
13/10/2016 05:00	00:15:00	53.6	33.3	40.4	48.4	42.5	38.9	36.3
13/10/2016 05:15	00:15:00	84.7	33	60.8	73.9	49.4	39.4	36.1
13/10/2016 05:30	00:15:00	85.9	33.2	61.1	75	50.2	39.5	36.7
13/10/2016 05:45	00:15:00	83.1	32.1	62.7	77.8	58.9	43.1	35.9
13/10/2016 06:00	00:15:00	81.5	33.7	61.3	76.6	54.7	44.1	38.3
13/10/2016 06:15	00:15:00	83.9	31.5	62.7	77.4	57.1	38.3	34.4
13/10/2016 06:30	00:15:00	85.1	31.9	66.2	80.3	64.9	44.6	37.2
13/10/2016 06:45	00:15:00	86.7	33.8	65.7	80.4	61.3	40.9	36.9
13/10/2016 07:00	00:15:00	82.4	35.7	64.6	78.1	65.5	44.2	38.3
13/10/2016 07:15	00:15:00	84.3	36.5	66.3	80.1	67	48.3	39.5
13/10/2016 07:30	00:15:00	86.4	38.2	69.2	81.8	71.7	53.4	41.8
13/10/2016 07:45	00:15:00	85.6	39.4	69.3	81.7	72.6	53	45.5
13/10/2016 08:00	00:15:00	86.5	43.4	70.7	82.4	75.1	56.2	48.3
13/10/2016 08:15	00:15:00	86.6	46.1	67.5	80.5	68.8	55.7	49.8
13/10/2016 08:30	00:15:00	88	46.3	67.9	81.1	69.4	55.4	49.5
13/10/2016 08:45	00:15:00	85.9	44.5	68	80.5	70.7	56	49
13/10/2016 09:00	00:15:00	84.5	43.7	68.1	80.8	71.1	57.2	49.4
13/10/2016 09:15	00:15:00	85.7	45.1	67.7	80.3	70.4	55.4	49.4
13/10/2016 09:30	00:15:00	85	45.9	68.3	80.4	71.8	58.1	50.3
13/10/2016 09:45	00:15:00	84.1	43.7	67.8	80.1	71	56.5	50
13/10/2016 10:00	00:15:00	83.6	44.8	67.2	78.9	71.5	55.9	49
13/10/2016 10:15	00:15:00	85	44.8	67.8	79.9	71.7	54.9	48.2

13/10/2016 10:30	00:15:00	84	44.3	65.9	78.2	67.5	54.5	48.6
13/10/2016 10:45	00:15:00	83.3	43.8	66	79.1	65.8	53.6	47.9
13/10/2016 11:00	00:15:00	84.2	44.3	67.3	79.3	70.5	58.1	50.8
13/10/2016 11:15	00:15:00	83.5	42.6	68	80	72.2	58.2	49.5
13/10/2016 11:30	00:15:00	86.2	45.9	66.1	79.4	66.3	54.9	48.9
13/10/2016 11:45	00:15:00	85.8	43.9	67.7	80.5	69.3	56.6	49.7
13/10/2016 12:15	00:15:00	82.9	44	65.1	78.8	64.5	57.1	49.4
13/10/2016 12:30	00:15:00	86.2	39.2	67	79.7	68.7	52.9	45.2
13/10/2016 12:45	00:15:00	85.9	42.8	66.6	79.7	67.4	56.7	49
13/10/2016 13:00	00:15:00	84.8	43	65.7	79.1	64.4	55.8	49.2
13/10/2016 13:15	00:15:00	85.7	43.6	67.4	81.2	66.9	54	47.6
13/10/2016 13:30	00:15:00	83	42.6	66.7	78.8	69.7	57	49.1
13/10/2016 13:45	00:15:00	82.9	43.4	65.9	78.6	67.6	55.9	48.5
13/10/2016 14:00	00:15:00	85.5	43.5	66.3	79.3	67.5	53.8	48.2
13/10/2016 14:15	00:15:00	83.7	43.9	64.7	78.1	65	52	47.5
13/10/2016 14:30	00:15:00	83.4	42.9	66.1	79.2	67.7	53.6	47.7
13/10/2016 14:45	00:15:00	84	42.8	65.6	79.4	65.3	51.2	46.2
13/10/2016 15:00	00:15:00	83.4	44.4	67.3	79.6	70.2	57	49.4
13/10/2016 15:15	00:15:00	84.4	43.5	66.5	79.7	67.5	55	48
13/10/2016 15:30	00:15:00	83.3	41.7	66.9	79.7	69.6	56	46.7
13/10/2016 15:45	00:15:00	84	36.2	66.9	79.7	69.7	48.3	39.9
13/10/2016 16:00	00:15:00	84.9	35.6	67.8	80.2	71.8	51.2	40.1
13/10/2016 16:15	00:15:00	84.6	36.6	67.9	79.8	72.1	53.8	43
13/10/2016 16:30	00:15:00	83.1	39.4	68.9	79.9	74.2	54.4	43.7
13/10/2016 16:45	00:15:00	85.3	35.7	68.9	80.8	73.6	54.2	43
13/10/2016 17:00	00:15:00	83.1	35.7	68	79.9	72.2	52.2	40.5
13/10/2016 17:15	00:15:00	82.3	36	68.4	79.7	73.5	53	41.1
13/10/2016 17:30	00:15:00	85.1	38.1	70.4	81.4	75.7	58	47.2
13/10/2016 17:45	00:15:00	86	34.8	68.8	80.9	72.7	52.2	39.3
13/10/2016 18:00	00:15:00	84.2	34.7	66.3	79.9	67.6	46.2	37.8
13/10/2016 18:15	00:15:00	86.1	34.4	66.5	79.8	67.9	49.2	38.8
13/10/2016 18:30	00:15:00	84.7	35.4	66	79.9	65.3	46.8	39.1
13/10/2016 18:45	00:15:00	83.1	34.7	64.8	78.6	64.5	48.9	38.4
13/10/2016 19:00	00:15:00	84.6	33.2	64.9	79.2	62.5	44.3	38
13/10/2016 19:15	00:15:00	83.6	30.1	64.1	77.1	64.2	43.8	35.9
13/10/2016 19:30	00:15:00	83.7	32.9	63.9	77.5	62.5	44	36
13/10/2016 19:45	00:15:00	84.9	29.9	63.4	78.1	57.5	38.1	33.2
13/10/2016 20:00	00:15:00	85.5	31.8	64.5	78.5	62.2	41.2	35.1

13/10/2016 20:15	00:15:00	83.3	32.2	62.3	77.5	56.8	45	34.7
13/10/2016 20:30	00:15:00	83.6	31.2	64.8	79	62.7	46.3	34.8
13/10/2016 20:45	00:15:00	82.3	28.1	60.1	75.2	52.3	36.6	31.7
13/10/2016 21:00	00:15:00	85.5	26.2	61.6	76.5	53.2	35.3	30
13/10/2016 21:15	00:15:00	85.9	26.4	64	78.6	59.3	36.9	30
13/10/2016 21:30	00:15:00	82.7	26.7	61.2	76.5	54.9	34	30
13/10/2016 21:45	00:15:00	85.1	28	62.6	77.1	54.7	34.6	31.3
13/10/2016 22:00	00:15:00	84.6	28.1	65.5	80	63	42.2	33.2
13/10/2016 22:15	00:15:00	84	26.3	59.8	73.4	46.1	32.6	29.5
13/10/2016 22:30	00:15:00	88	25.6	61.3	73.1	42.9	32.5	29
13/10/2016 22:45	00:15:00	84.1	25	60.9	74.5	54.1	33.3	28.6
13/10/2016 23:00	00:15:00	84	26	62.6	77.6	55.4	35.6	30.1
13/10/2016 23:15	00:15:00	83.5	26.6	60.9	75.3	53.5	33.6	30.3
13/10/2016 23:30	00:15:00	87.6	25.8	60.9	72.8	50.8	33.1	29.2
13/10/2016 23:45	00:15:00	84.6	25.7	61	76.6	50.3	32.2	29.1
14/10/2016 00:00	00:15:00	81.6	26.8	59.3	74.5	52.3	35.8	30.7
14/10/2016 00:15	00:15:00	74	26.7	47.2	54.4	36.8	32.6	29.6
14/10/2016 00:30	00:15:00	86.2	27.2	61.1	74	46.6	34.1	30.9
14/10/2016 00:45	00:15:00	79.9	29	54.7	64.2	41	36	33.2
14/10/2016 01:00	00:15:00	83.6	29.3	59.9	73.4	50.8	36	32.5
14/10/2016 01:15	00:15:00	84.9	29.6	56.6	59	38.4	35	32.5
14/10/2016 01:30	00:15:00	78.7	29	55.3	68.2	42.6	35.1	32
14/10/2016 01:45	00:15:00	56	28.8	36.4	45.6	38.2	34.6	31.6
14/10/2016 02:00	00:15:00	83.6	28.6	58.3	70.8	41.6	35.1	31.9
14/10/2016 02:15	00:15:00	81.4	27.9	53	59	38.9	34.1	30.7
14/10/2016 02:30	00:15:00	82.9	25.4	58.9	72.5	49.1	33.4	29.9
14/10/2016 02:45	00:15:00	83.7	28.3	61.1	75.8	52.5	34.2	31
14/10/2016 03:00	00:15:00	78.3	26.8	50.6	53	39.2	34.6	31.4
14/10/2016 03:15	00:15:00	77.6	28.2	50.9	55.3	37.3	32.9	30.5
14/10/2016 03:30	00:15:00	83.5	27.2	58.3	70.3	44.4	34.3	31
14/10/2016 03:45	00:15:00	82.4	25.4	59.6	73.7	48.4	32.9	29.6
14/10/2016 04:00	00:15:00	82.4	27.9	55.6	62.9	39.2	34.2	31.1
14/10/2016 04:15	00:15:00	73.6	27.7	47.4	55.4	39.3	33.8	30.8
14/10/2016 04:30	00:15:00	84.1	28.5	60.4	74.5	51.2	35.2	31.5
14/10/2016 04:45	00:15:00	84.1	28.8	57.2	68.1	44	35.2	32
14/10/2016 05:00	00:15:00	53.5	27.7	39.9	48	44.1	37.4	32.9
14/10/2016 05:15	00:15:00	82.8	34	58.9	73.2	48.2	37.8	35.9
14/10/2016 05:30	00:15:00	84.8	26.2	60.6	75.7	50.9	35.2	30.4

14/10/2016 05:45	00:15:00	83.4	28.8	60.5	74.4	53.2	34.9	31.7
14/10/2016 06:00	00:15:00	80.9	29.9	57.5	72.2	45.5	34.6	32
14/10/2016 06:15	00:15:00	90.5	28	63.9	76.7	55	35.1	30.6
14/10/2016 06:30	00:15:00	85.7	29.4	64.8	78.7	63.5	41.6	33.4
14/10/2016 06:45	00:15:00	83.3	32.4	64.4	79	62.4	45.4	37.1
14/10/2016 07:00	00:15:00	84.1	29.9	63.8	78.2	61	38.9	33.3
14/10/2016 07:15	00:15:00	84.8	32	66.1	80	66.3	45.4	36.4
14/10/2016 07:30	00:15:00	84.2	33.9	67.5	80.9	69.7	47.4	37.6
14/10/2016 07:45	00:15:00	85.1	33.2	68.4	81.2	70.9	51.7	38.7
14/10/2016 08:00	00:15:00	84.6	34.3	67.6	80.7	69.6	49.4	39.5
14/10/2016 08:15	00:15:00	85.1	33.8	68.5	81.1	71.7	53.5	39.6
14/10/2016 08:30	00:15:00	86.3	35.2	67.4	80.7	68.1	47.2	38.1
14/10/2016 08:45	00:15:00	85.4	36.3	67.6	80.2	70.7	50.5	39.9
14/10/2016 09:00	00:15:00	84.9	31.8	68.3	81.2	70.7	51.5	37.5
14/10/2016 09:15	00:15:00	85	34.8	67.7	80.6	70.5	51.8	39.5
14/10/2016 09:30	00:15:00	83.5	34.1	67.8	79.9	71.6	50.5	38.8
14/10/2016 09:45	00:15:00	84.5	30.6	68.3	80.3	72.7	51.9	37.1
14/10/2016 10:00	00:15:00	85.3	32.5	67.9	79.9	71.9	49.8	36.9
14/10/2016 10:15	00:15:00	84.3	32.2	67.4	79.9	71.6	49.9	36.9
14/10/2016 10:30	00:15:00	85.7	33.8	69	80.4	73.9	52.7	38.1
14/10/2016 10:45	00:15:00	84.4	30.9	67.5	79.8	71.3	50.1	37.1
14/10/2016 11:00	00:15:00	83.1	33.8	65	78.4	66.9	47.1	36.4
14/10/2016 11:15	00:15:00	83.8	35.8	68.1	80.2	72	51.2	40.1
14/10/2016 11:30	00:15:00	84.9	32.1	65.7	78.8	68.2	46.1	36.1
14/10/2016 11:45	00:15:00	84.4	31.3	65.4	78.6	65.6	44.5	34.3
14/10/2016 12:15	00:15:00	86.7	33.6	66.9	79.4	69.6	49	37.7
14/10/2016 12:30	00:15:00	84.2	32	65	78.4	65.8	42.8	35.7
14/10/2016 12:45	00:15:00	82.4	32.6	65.4	79	66	44.4	37.1
14/10/2016 13:00	00:15:00	89.6	35.3	66.4	79.3	67	45.1	38.7
14/10/2016 13:15	00:15:00	86.2	35.6	67	80.5	68.1	46.6	38.3
14/10/2016 13:30	00:15:00	84.9	34.7	66.7	80.1	68.6	45.7	38.4
14/10/2016 13:45	00:15:00	83.3	32.1	66.8	79.6	69.7	48.7	36.8
14/10/2016 14:00	00:15:00	84.1	32.5	64.9	78.6	65.3	44.4	36.4
14/10/2016 14:15	00:15:00	84.3	36	66.9	79.3	70.6	51.5	41.6
14/10/2016 14:30	00:15:00	84.1	32.3	67.4	79.8	71.1	53.2	39
14/10/2016 14:45	00:15:00	87.6	32.6	66.3	78.8	68.2	45.4	36.4
14/10/2016 15:00	00:15:00	85	31	66.9	79.5	69.9	48	35.5
14/10/2016 15:15	00:15:00	85.6	32.6	67.4	80	71.1	50.4	37.1

14/10/2016 15:30	00:15:00	86.2	33.1	67.3	80.2	70.1	49.6	36.7
14/10/2016 15:45	00:15:00	86.6	35	68.1	80.5	72.1	51.6	38.3
14/10/2016 16:00	00:15:00	84.4	36.5	69	81	73.6	54.1	42.1
14/10/2016 16:15	00:15:00	82.8	35.8	66.4	78.6	70.3	50.3	39.5
14/10/2016 16:30	00:15:00	83.8	34.8	67.5	79.1	72.2	52.6	40.3
14/10/2016 16:45	00:15:00	84.6	33.7	67.6	80.2	71.2	49.9	38.6
14/10/2016 17:00	00:15:00	83.5	34	66.2	79.3	69	50.2	41.6
14/10/2016 17:15	00:15:00	84.2	37	68.2	79.6	73.2	52.9	41.5
14/10/2016 17:30	00:15:00	86.4	38.5	69.1	80.3	73.9	53.9	42.4
14/10/2016 17:45	00:15:00	84.5	36.4	67.2	79.3	71.4	51	40
14/10/2016 18:00	00:15:00	86.4	35.8	68.3	80.4	72.5	51.7	40.5
14/10/2016 18:15	00:15:00	82.5	34	66	79.1	67.8	48	36.8
14/10/2016 18:30	00:15:00	84	32.9	65.7	78.6	67.2	46.2	37.9
14/10/2016 18:45	00:15:00	83.1	33.3	64.9	79	64.6	43.5	36.1
14/10/2016 19:00	00:15:00	82.8	32.6	63.3	77.8	61.1	44.4	36.1
14/10/2016 19:15	00:15:00	85.4	31.4	65.8	79.4	65.9	45.7	37.6
14/10/2016 19:30	00:15:00	83.7	28.9	63	77.4	59.8	38.5	33.4
14/10/2016 19:45	00:15:00	85	31.7	64.6	78.9	62.5	46.6	36.8
14/10/2016 20:00	00:15:00	85.7	28.9	64.3	78	61.3	40.4	33.4
14/10/2016 20:15	00:15:00	86.9	29.7	62.4	77	55.6	36.6	32
14/10/2016 20:30	00:15:00	92.1	28.7	65.5	79.6	60.8	38.3	32.5
14/10/2016 20:45	00:15:00	82.5	28.3	59.9	74.7	51.3	35	31.4
14/10/2016 21:00	00:15:00	83.9	27.7	61.2	75.4	56.7	37.8	32.3
14/10/2016 21:15	00:15:00	81.3	29	60.1	74.9	53.6	37.6	32.3
14/10/2016 21:30	00:15:00	82.5	28.1	60	74.8	54.7	39.7	32.4
14/10/2016 21:45	00:15:00	82.5	28.9	58.6	72.3	47.9	35.3	31.8
14/10/2016 22:00	00:15:00	85.5	26.1	62	76.5	55.6	36	30.5
14/10/2016 22:15	00:15:00	81	26.1	58.3	72.8	43.7	32.3	29.1
14/10/2016 22:30	00:15:00	84.3	27.1	62.5	77.8	56.1	34.1	30.4
14/10/2016 22:45	00:15:00	81.7	26.6	57.1	70.5	46.9	32.9	29.4
14/10/2016 23:00	00:15:00	82.7	27.9	60.1	74.9	48.9	34.6	30.7
14/10/2016 23:15	00:15:00	84.1	28.4	61.2	75.4	52.4	34.3	31.5
14/10/2016 23:30	00:15:00	81.9	26.8	54.7	62.2	37.5	31.7	29.1
14/10/2016 23:45	00:15:00	77.6	24.8	52.3	65.1	41.4	30.6	27.8
15/10/2016 00:00	00:15:00	45	25.2	31.9	39.7	34.8	30	27.3
15/10/2016 00:15	00:15:00	82.8	24.2	57.5	69.3	43.5	30.6	26.8
15/10/2016 00:30	00:15:00	76.9	24.2	51.9	63.3	37.4	29.7	26.6
15/10/2016 00:45	00:15:00	82.7	23.4	58.4	70.8	42	29.2	26.2

15/10/2016 01:00	00:15:00	81.8	24.1	55.6	65.4	41.9	29.9	27
15/10/2016 01:15	00:15:00	81.2	26	55.4	66.2	39.7	33.3	30.3
15/10/2016 01:30	00:15:00	83.1	27.1	56.4	68	41.6	33.4	30.4
15/10/2016 01:45	00:15:00	79.8	25.9	54.4	65.1	37.9	31.8	28.9
15/10/2016 02:00	00:15:00	84.8	21.8	59.7	71.3	48.5	30.2	25.9
15/10/2016 02:15	00:15:00	83.3	22.6	57.5	69.1	44.4	29.4	26
15/10/2016 02:30	00:15:00	78.7	23.7	54.5	66.7	43.2	28.5	26.1
15/10/2016 02:45	00:15:00	80.3	21.9	52.3	57	35	27.1	24.6
15/10/2016 03:00	00:15:00	78.9	21.6	54	64.8	35.7	26.8	24
15/10/2016 03:15	00:15:00	77.7	22.7	51.3	60.8	31.8	27.8	25.3
15/10/2016 03:30	00:15:00	52.1	26.1	34.6	43.8	37	32.2	29.2
15/10/2016 03:45	00:15:00	38	24.1	30.4	35.8	32.8	29.7	26.7
15/10/2016 04:00	00:15:00	79.5	22.3	50.8	54.2	32.3	27.7	25
15/10/2016 04:15	00:15:00	38.8	21.3	27.8	34.4	30.3	26.6	24
15/10/2016 04:30	00:15:00	81.1	22.8	52.6	57.2	32.9	27.6	25.1
15/10/2016 04:45	00:15:00	57.6	22.8	38.4	53	33.8	28.5	25.4
15/10/2016 05:00	00:15:00	73.3	22.6	47.3	56.7	32.7	27.4	24.5
15/10/2016 05:15	00:15:00	76.3	24.1	53.3	66.6	39	29.5	26
15/10/2016 05:30	00:15:00	80	34.3	57.2	71.6	43.6	37.1	36
15/10/2016 05:45	00:15:00	82.9	25.2	62.1	77.5	56.5	37	28.7
15/10/2016 06:00	00:15:00	89.2	22.9	60.7	70.7	43.4	28.9	25.5
15/10/2016 06:15	00:15:00	79.1	23	53.9	64.1	37	29.4	26
15/10/2016 06:30	00:15:00	83.4	21.4	62.1	77.2	55.3	32.4	26.6
15/10/2016 06:45	00:15:00	79.5	23.7	56.3	70.9	48.3	37.4	28.2
15/10/2016 07:00	00:15:00	82.4	25.5	61.1	76.2	52.8	38.2	30.1
15/10/2016 07:15	00:15:00	82.6	27.3	58.7	72.1	49.9	36.5	31
15/10/2016 07:30	00:15:00	83.4	28.8	61.6	76.7	55.2	39.7	32.8
15/10/2016 07:45	00:15:00	84.9	28.1	64.2	79	59.5	41.3	33.2
15/10/2016 08:00	00:15:00	84.8	28.2	62.9	77.8	57.5	38.3	31.2
15/10/2016 08:15	00:15:00	82.5	28.7	64	77.8	63.8	44.8	37.5
15/10/2016 08:30	00:15:00	85	30.3	66.5	79.3	69	48.6	36.2
15/10/2016 08:45	00:15:00	85.8	32	66.3	79.5	68	47	38.8
15/10/2016 09:00	00:15:00	84.8	30.7	65.4	79.3	65.5	44.9	36.5
15/10/2016 09:15	00:15:00	84.4	30.9	67.2	79.5	71.4	51.3	36.3
15/10/2016 09:30	00:15:00	81.2	30.1	66.2	78.6	70.4	50.1	35.9
15/10/2016 09:45	00:15:00	85.4	32.6	68.6	79.6	73.6	54.9	41.9
15/10/2016 10:00	00:15:00	82.8	34	68.8	79.5	74.2	54.6	41.3
15/10/2016 10:15	00:15:00	84.7	33.7	68.9	78.8	74.5	56	42.2

15/10/2016 10:30	00:15:00	83.4	33.3	67.2	78.5	72.4	51.7	39.9
15/10/2016 10:45	00:15:00	83.7	36.2	68.8	79.4	74.2	55.8	42.7